

GOMOS Daily Report 07-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	09FEB2010 04:31:42
Data source version	GOMOS/5.00L04
Start time of products	07FEB2010 19:48:26
Stop time of products	07FEB2010 23:59:10
Store outputs in DB	Yes
Nb of level 1b prods	24
Nb of prods with errors	0

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

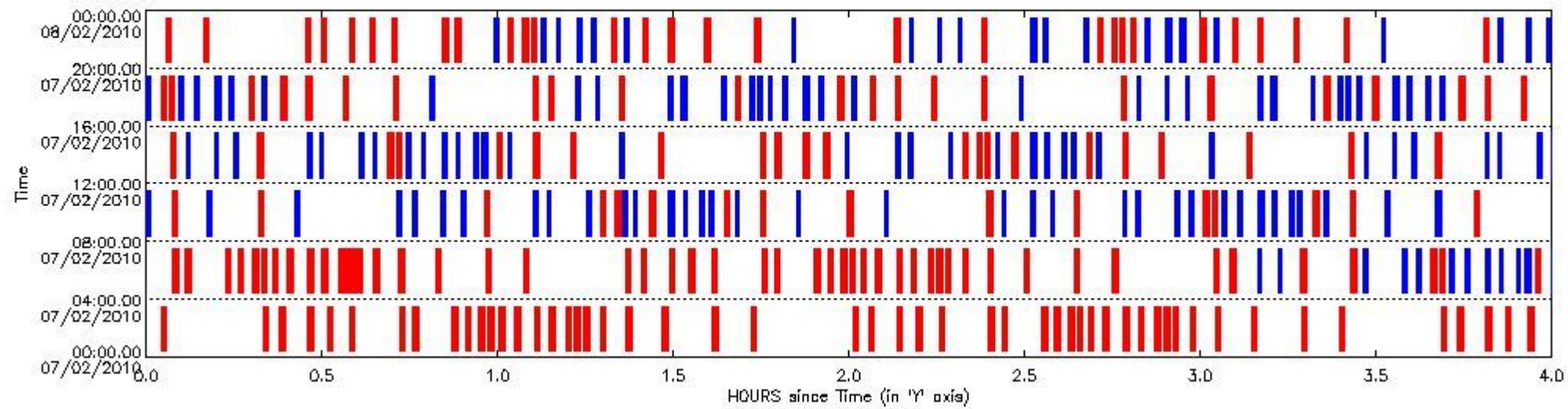
2.1 Level 0 products arrived in PCF (see template [here](#))

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
07-FEB-2010 00:02:35	78BetGem	17	41510
07-FEB-2010 00:19:59	1AlpUMi	49	41510
07-FEB-2010 00:22:41	7BetUMi	60	41510
07-FEB-2010 00:27:29	14EtaDra	119	41510
07-FEB-2010 00:30:54	23BetDra	130	41510
07-FEB-2010 00:34:46	3AlpLyr	5	41510
07-FEB-2010 00:43:15	55AlpOph	59	41510
07-FEB-2010 00:45:25	60BetOph	126	41510
07-FEB-2010 00:52:12	35EtaOph	86	41510
07-FEB-2010 00:54:31	10Gam2Sgr	167	41510
07-FEB-2010 00:56:48	21AlpSco	16	41510
07-FEB-2010 00:58:24	TheSco	40	41510
07-FEB-2010 01:00:16	AlpAra	147	41510
07-FEB-2010 01:02:43	GamLup	131	41510
07-FEB-2010 01:06:15	DSA1027	0	41511

07-FEB-2010 01:08:44	BetCen	10	41511
07-FEB-2010 01:11:37	BetCru	20	41511
07-FEB-2010 01:13:04	GamCen	64	41511
07-FEB-2010 01:14:41	TheCar	124	41511
07-FEB-2010 01:17:36	lotCar	71	41511
07-FEB-2010 01:21:54	LamVel	65	41511
07-FEB-2010 01:28:09	15RhoPup	132	41511
07-FEB-2010 01:36:42	10AlpCMi	8	41511
07-FEB-2010 01:43:11	78BetGem	17	41511
07-FEB-2010 02:00:35	1AlpUMi	49	41511
07-FEB-2010 02:03:17	7BetUMi	60	41511
07-FEB-2010 02:08:05	14EtaDra	119	41511
07-FEB-2010 02:11:30	23BetDra	130	41511
07-FEB-2010 02:15:22	3AlpLyr	5	41511
07-FEB-2010 02:23:51	55AlpOph	59	41511
07-FEB-2010 02:26:02	60BetOph	126	41511
07-FEB-2010 02:32:49	35EtaOph	86	41511
07-FEB-2010 02:35:07	10Gam2Sgr	167	41511
07-FEB-2010 02:37:25	21AlpSco	16	41511
07-FEB-2010 02:39:01	TheSco	40	41511
07-FEB-2010 02:40:51	AlpAra	147	41511
07-FEB-2010 02:43:20	GamLup	131	41511
07-FEB-2010 02:46:51	DSA1027	0	41512
07-FEB-2010 02:49:21	BetCen	10	41512
07-FEB-2010 02:52:13	BetCru	20	41512
07-FEB-2010 02:53:41	GamCen	64	41512
07-FEB-2010 02:55:18	TheCar	124	41512
07-FEB-2010 02:58:12	lotCar	71	41512
07-FEB-2010 03:02:30	LamVel	65	41512
07-FEB-2010 03:08:45	15RhoPup	132	41512
07-FEB-2010 03:17:18	10AlpCMi	8	41512
07-FEB-2010 03:23:47	78BetGem	17	41512
07-FEB-2010 03:41:11	1AlpUMi	49	41512
07-FEB-2010 03:43:52	7BetUMi	60	41512
07-FEB-2010 03:48:41	14EtaDra	119	41512
07-FEB-2010 03:52:06	23BetDra	130	41512
07-FEB-2010 03:55:58	3AlpLyr	5	41512
07-FEB-2010 04:04:27	55AlpOph	59	41512
07-FEB-2010 04:06:38	60BetOph	126	41512
07-FEB-2010 04:13:25	35EtaOph	86	41512
07-FEB-2010 04:15:44	10Gam2Sgr	167	41512
07-FEB-2010 04:18:02	21AlpSco	16	41512
07-FEB-2010 04:19:37	TheSco	40	41512
07-FEB-2010 04:21:27	AlpAra	147	41512
07-FEB-2010 04:23:57	GamLup	131	41512
07-FEB-2010 04:27:28	DSA1027	0	41513
07-FEB-2010 04:29:57	BetCen	10	41513
07-FEB-2010 04:32:50	BetCru	20	41513
07-FEB-2010 04:34:18	GamCen	64	41513
07-FEB-2010 04:35:54	TheCar	124	41513
07-FEB-2010 04:38:48	lotCar	71	41513
07-FEB-2010 04:43:07	LamVel	65	41513
07-FEB-2010 04:49:21	15RhoPup	132	41513
07-FEB-2010 04:57:54	10AlpCMi	8	41513
07-FEB-2010 05:04:23	78BetGem	17	41513
07-FEB-2010 05:21:46	1AlpUMi	49	41513
07-FEB-2010 05:24:28	7BetUMi	60	41513
07-FEB-2010 05:29:16	14EtaDra	119	41513
07-FEB-2010 05:32:42	23BetDra	130	41513

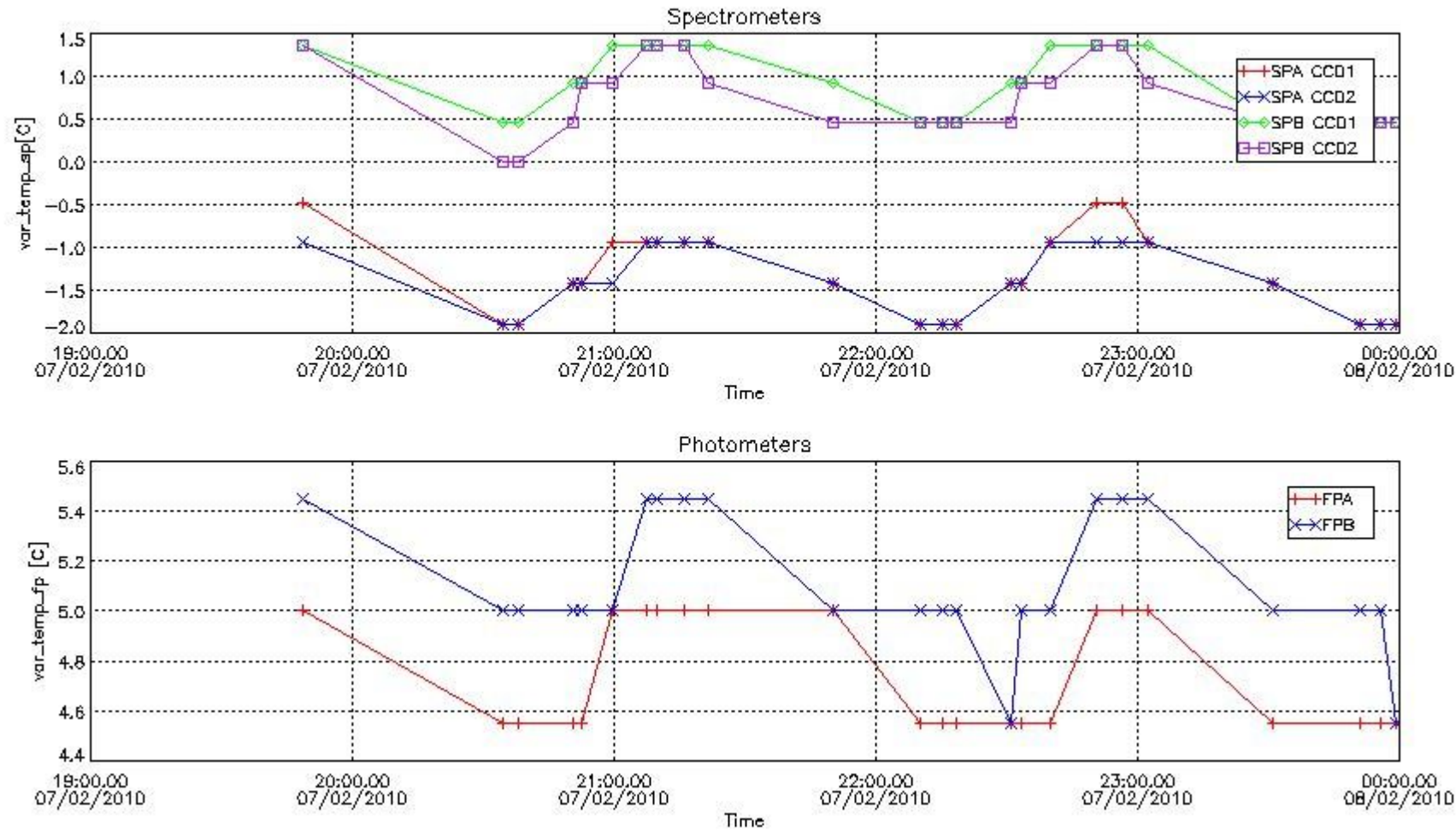
07-FEB-2010 05:36:34	3AlpLyr	5	41513
07-FEB-2010 05:45:03	55AlpOph	59	41513
07-FEB-2010 05:47:14	60BetOph	126	41513
07-FEB-2010 05:54:02	35EtaOph	86	41513
07-FEB-2010 05:56:20	10Gam2Sgr	167	41513
07-FEB-2010 05:58:39	21AlpSco	16	41513
07-FEB-2010 06:00:13	TheSco	40	41513
07-FEB-2010 06:02:04	AlpAra	147	41513
07-FEB-2010 06:04:34	GamLup	131	41513
07-FEB-2010 06:08:05	DSA1027	0	41514
07-FEB-2010 06:10:34	BetCen	10	41514
07-FEB-2010 06:13:26	BetCru	20	41514
07-FEB-2010 06:14:55	GamCen	64	41514
07-FEB-2010 06:16:30	TheCar	124	41514
07-FEB-2010 06:19:24	lotCar	71	41514
07-FEB-2010 06:23:43	LamVel	65	41514
07-FEB-2010 06:29:57	15RhoPup	132	41514
07-FEB-2010 06:38:30	10AlpCMi	8	41514
07-FEB-2010 06:44:59	78BetGem	17	41514
07-FEB-2010 07:02:22	1AlpUMi	49	41514
07-FEB-2010 07:05:04	7BetUMi	60	41514
07-FEB-2010 07:17:10	3AlpLyr	5	41514
07-FEB-2010 07:25:40	55AlpOph	59	41514
07-FEB-2010 07:39:15	21AlpSco	16	41514
07-FEB-2010 07:40:49	TheSco	40	41514
07-FEB-2010 07:57:07	TheCar	124	41515
07-FEB-2010 08:04:19	LamVel	65	41515
07-FEB-2010 08:19:06	10AlpCMi	8	41515
07-FEB-2010 08:57:46	3AlpLyr	5	41515
07-FEB-2010 09:17:32	10Gam2Sgr	167	41515
07-FEB-2010 09:19:52	21AlpSco	16	41515
07-FEB-2010 09:25:47	GamLup	131	41515
07-FEB-2010 09:38:42	UpsCar	159	41516
07-FEB-2010 09:44:55	LamVel	65	41516
07-FEB-2010 09:59:43	10AlpCMi	8	41516
07-FEB-2010 10:23:34	1AlpUMi	49	41516
07-FEB-2010 10:38:22	3AlpLyr	5	41516
07-FEB-2010 11:00:29	21AlpSco	16	41516
07-FEB-2010 11:02:02	TheSco	40	41516
07-FEB-2010 11:19:18	UpsCar	159	41517
07-FEB-2010 11:25:32	LamVel	65	41517
07-FEB-2010 11:46:47	78BetGem	17	41517
07-FEB-2010 12:04:10	1AlpUMi	49	41517
07-FEB-2010 12:18:58	3AlpLyr	5	41517
07-FEB-2010 12:41:06	21AlpSco	16	41517
07-FEB-2010 12:42:38	TheSco	40	41517
07-FEB-2010 12:59:55	UpsCar	159	41518
07-FEB-2010 13:06:08	LamVel	65	41518
07-FEB-2010 13:12:21	15RhoPup	132	41518
07-FEB-2010 13:27:22	78BetGem	17	41518
07-FEB-2010 13:44:46	1AlpUMi	49	41518
07-FEB-2010 13:47:26	7BetUMi	60	41518
07-FEB-2010 13:52:15	14EtaDra	119	41518
07-FEB-2010 13:55:41	23BetDra	130	41518
07-FEB-2010 14:19:21	10Gam2Sgr	167	41518
07-FEB-2010 14:21:51	35LamSco	25	41518
07-FEB-2010 14:23:15	TheSco	40	41518
07-FEB-2010 14:27:38	GamLup	131	41518
07-FEB-2010 14:40:31	UpsCar	159	41519

07-FEB-2010 14:46:44	LamVel	65	41519
07-FEB-2010 14:52:57	15RhoPup	132	41519
07-FEB-2010 15:07:58	78BetGem	17	41519
07-FEB-2010 15:25:22	1AlpUMi	49	41519
07-FEB-2010 15:40:10	3AlpLyr	5	41519
07-FEB-2010 16:02:28	35LamSco	25	41519
07-FEB-2010 16:03:51	TheSco	40	41519
07-FEB-2010 16:17:30	Alp1Cru	12	41520
07-FEB-2010 16:23:02	lotCar	71	41520
07-FEB-2010 16:27:20	LamVel	65	41520
07-FEB-2010 16:33:34	15RhoPup	132	41520
07-FEB-2010 16:42:07	10AlpCMi	8	41520
07-FEB-2010 17:05:58	1AlpUMi	49	41520
07-FEB-2010 17:08:38	7BetUMi	60	41520
07-FEB-2010 17:20:46	3AlpLyr	5	41520
07-FEB-2010 17:40:34	10Gam2Sgr	167	41520
07-FEB-2010 17:58:06	Alp1Cru	12	41521
07-FEB-2010 18:03:38	lotCar	71	41521
07-FEB-2010 18:07:56	LamVel	65	41521
07-FEB-2010 18:14:10	15RhoPup	132	41521
07-FEB-2010 18:22:43	10AlpCMi	8	41521
07-FEB-2010 18:46:34	1AlpUMi	49	41521
07-FEB-2010 19:01:22	3AlpLyr	5	41521
07-FEB-2010 19:21:10	10Gam2Sgr	167	41521
07-FEB-2010 19:29:28	GamLup	131	41521
07-FEB-2010 19:44:14	lotCar	71	41522
07-FEB-2010 19:48:33	LamVel	65	41522
07-FEB-2010 19:54:46	15RhoPup	132	41522
07-FEB-2010 20:03:19	10AlpCMi	8	41522
07-FEB-2010 20:09:46	78BetGem	17	41522
07-FEB-2010 20:27:10	1AlpUMi	49	41522
07-FEB-2010 20:29:49	7BetUMi	60	41522
07-FEB-2010 20:34:38	14EtaDra	119	41522
07-FEB-2010 20:38:05	23BetDra	130	41522
07-FEB-2010 20:41:58	3AlpLyr	5	41522
07-FEB-2010 20:50:30	55AlpOph	59	41522
07-FEB-2010 20:52:41	60BetOph	126	41522
07-FEB-2010 21:01:46	10Gam2Sgr	167	41522
07-FEB-2010 21:04:17	35LamSco	25	41522
07-FEB-2010 21:05:40	TheSco	40	41522
07-FEB-2010 21:19:19	Alp1Cru	12	41523
07-FEB-2010 21:24:50	lotCar	71	41523
07-FEB-2010 21:29:09	LamVel	65	41523
07-FEB-2010 21:35:22	15RhoPup	132	41523
07-FEB-2010 21:43:55	10AlpCMi	8	41523
07-FEB-2010 22:07:46	1AlpUMi	49	41523
07-FEB-2010 22:22:34	3AlpLyr	5	41523
07-FEB-2010 22:42:22	10Gam2Sgr	167	41523
07-FEB-2010 22:44:53	35LamSco	25	41523
07-FEB-2010 22:46:16	TheSco	40	41523
07-FEB-2010 22:48:07	AlpAra	147	41523
07-FEB-2010 22:59:56	Alp1Cru	12	41524
07-FEB-2010 23:05:27	lotCar	71	41524
07-FEB-2010 23:09:45	LamVel	65	41524
07-FEB-2010 23:15:58	15RhoPup	132	41524
07-FEB-2010 23:24:31	10AlpCMi	8	41524
07-FEB-2010 23:48:22	1AlpUMi	49	41524

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_1PNPDE20100207_194826_000000452086_00386_41522_9273.N1	07-FEB-2010 19:48:26	Straylight	45.000	65	Lam Vel	2.2040	4400.0	90	41522	No
2	GOM_TRA_1PNPDE20100207_203431_000000422086_00386_41522_9274.N1	07-FEB-2010 20:34:31	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	41522	No
3	GOM_TRA_1PNPDE20100207_203758_000000392086_00386_41522_9275.N1	07-FEB-2010 20:37:58	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	41522	No
4	GOM_TRA_1PNPDE20100207_205023_000000582086_00386_41522_9276.N1	07-FEB-2010 20:50:23	Bright	58.000	59	55Alp Oph	2.0800	8900.0	116	41522	No
5	GOM_TRA_1PNPDE20100207_205234_000000572086_00386_41522_9277.N1	07-FEB-2010 20:52:34	Bright	56.500	126	60Bet Oph	2.7700	4250.0	113	41522	No
6	GOM_TRA_1PNPDE20100207_205924_000000482086_00386_41522_9290.N1	07-FEB-2010 20:59:24	Twilight	47.500	86	35Eta Oph	2.4300	10200.	95	41522	No
7	GOM_TRA_1PNPDE20100207_210724_000000432086_00386_41522_9291.N1	07-FEB-2010 21:07:24	Dark	43.000	147	Alp Ara	2.8770	26000.	86	41522	No
8	GOM_TRA_1PNPDE20100207_210959_000000452086_00386_41522_9292.N1	07-FEB-2010 21:09:59	Dark	44.500	131	Gam Lup	2.8000	26000.	89	41522	No
9	GOM_TRA_1PNPDE20100207_211556_000000432086_00387_41523_9293.N1	07-FEB-2010 21:15:56	Dark	43.000	10	Bet Cen	0.61000	28000.	86	41523	No
10	GOM_TRA_1PNPDE20100207_212136_000000512086_00387_41523_9294.N1	07-FEB-2010 21:21:36	Dark	51.000	99	Del Cen	2.5750	26000.	102	41523	No
11	GOM_TRA_1PNPDE20100207_215015_000000402086_00387_41523_9295.N1	07-FEB-2010 21:50:15	Bright	39.500	17	78Bet Gem	1.1610	4500.0	79	41523	No
12	GOM_TRA_1PNPDE20100207_221018_000000412086_00387_41523_9296.N1	07-FEB-2010 22:10:18	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	41523	No
13	GOM_TRA_1PNPDE20100207_221507_000000432086_00387_41523_9297.N1	07-FEB-2010 22:15:07	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	41523	No
14	GOM_TRA_1PNPDE20100207_221834_000000412086_00387_41523_9298.N1	07-FEB-2010 22:18:34	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	41523	No
15	GOM_TRA_1PNPDE20100207_223059_000000582086_00387_41523_9299.N1	07-FEB-2010 22:30:59	Bright	58.000	59	55Alp Oph	2.0800	8900.0	116	41523	No
16	GOM_TRA_1PNPDE20100207_223311_000000412086_00387_41523_9300.N1	07-FEB-2010 22:33:11	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	41523	No
17	GOM_TRA_1PNPDE20100207_224001_000000462086_00387_41523_9310.N1	07-FEB-2010 22:40:01	Twilight	45.500	86	35Eta Oph	2.4300	10200.	91	41523	No
18	GOM_TRA_1PNPDE20100207_225035_000000472086_00387_41523_9311.N1	07-FEB-2010 22:50:35	Dark	47.000	131	Gam Lup	2.8000	26000.	94	41523	No
19	GOM_TRA_1PNPDE20100207_225632_000000512086_00388_41524_9312.N1	07-FEB-2010 22:56:32	Dark	51.000	10	Bet Cen	0.61000	28000.	102	41524	No
20	GOM_TRA_1PNPDE20100207_230212_000000492086_00388_41524_9313.N1	07-FEB-2010 23:02:12	Dark	49.000	99	Del Cen	2.5750	26000.	98	41524	No
21	GOM_TRA_1PNPDE20100207_233051_000000402086_00388_41524_9314.N1	07-FEB-2010 23:30:51	Bright	39.500	17	78Bet Gem	1.1610	4500.0	79	41524	No
22	GOM_TRA_1PNPDE20100207_235053_000000422086_00388_41524_9315.N1	07-FEB-2010 23:50:53	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	41524	No
23	GOM_TRA_1PNPDE20100207_235542_000000462086_00388_41524_9316.N1	07-FEB-2010 23:55:42	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	41524	No
24	GOM_TRA_1PNPDE20100207_235910_000000382086_00388_41524_9317.N1	07-FEB-2010 23:59:10	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	41524	No

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



4. Overview of dark signal processing per product

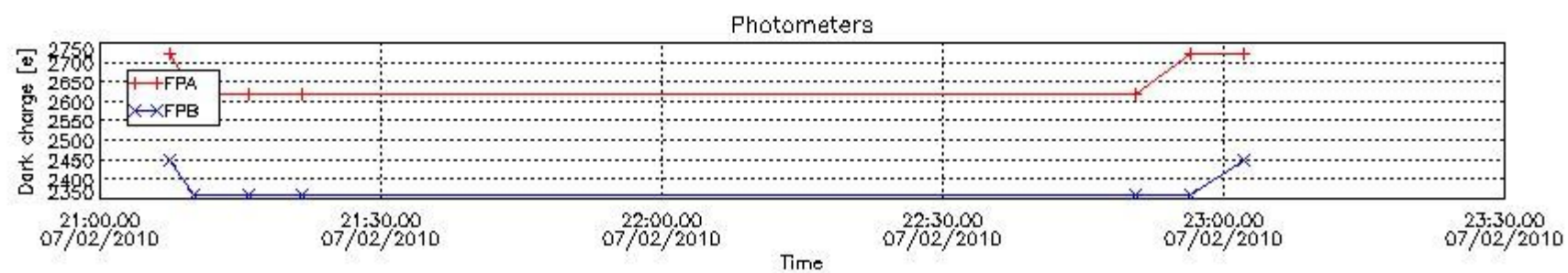
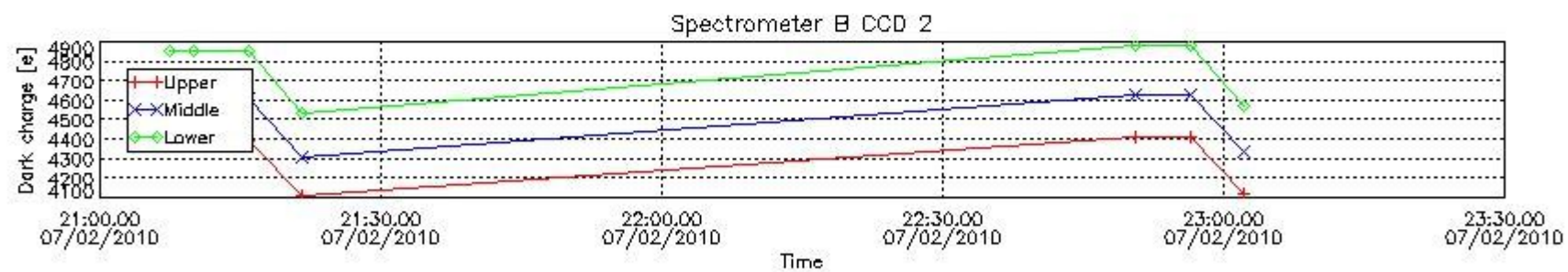
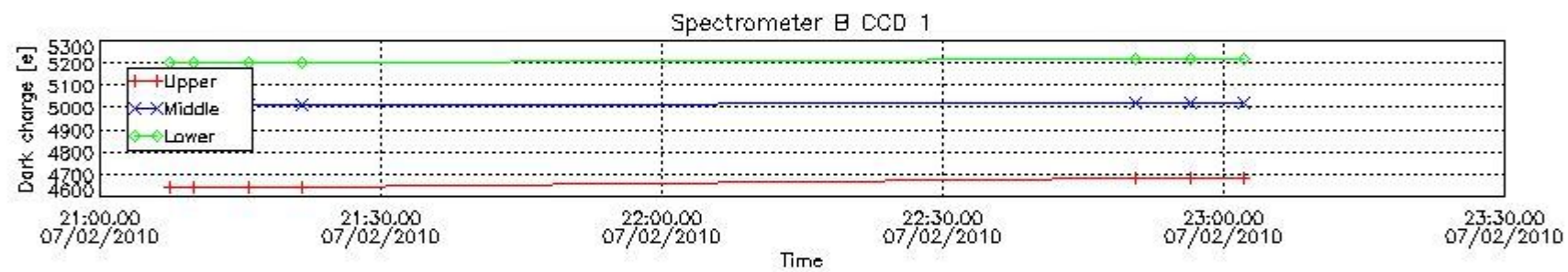
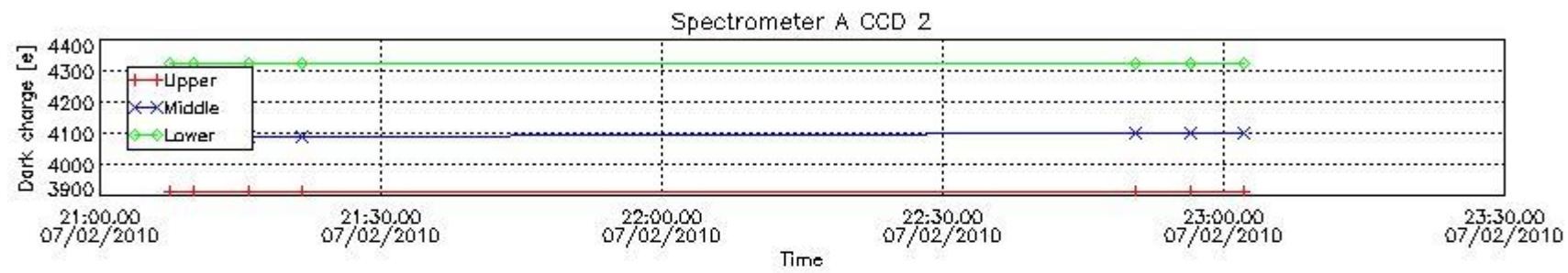
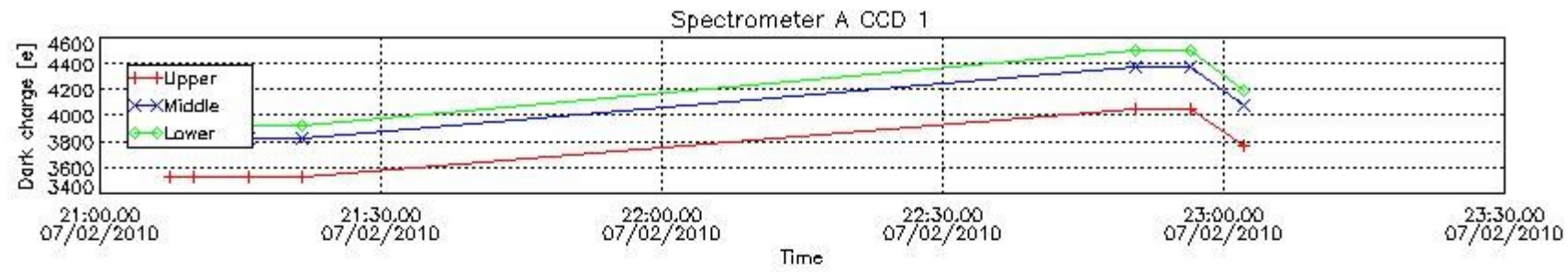
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100207_194826_000000452086_00386_41522_9273.N1	DC map used
GOM_TRA_1PNPDE20100207_203431_000000422086_00386_41522_9274.N1	DC map used
GOM_TRA_1PNPDE20100207_203758_000000392086_00386_41522_9275.N1	DC map used
GOM_TRA_1PNPDE20100207_205023_000000582086_00386_41522_9276.N1	DC map used
GOM_TRA_1PNPDE20100207_205234_000000572086_00386_41522_9277.N1	DC map used

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



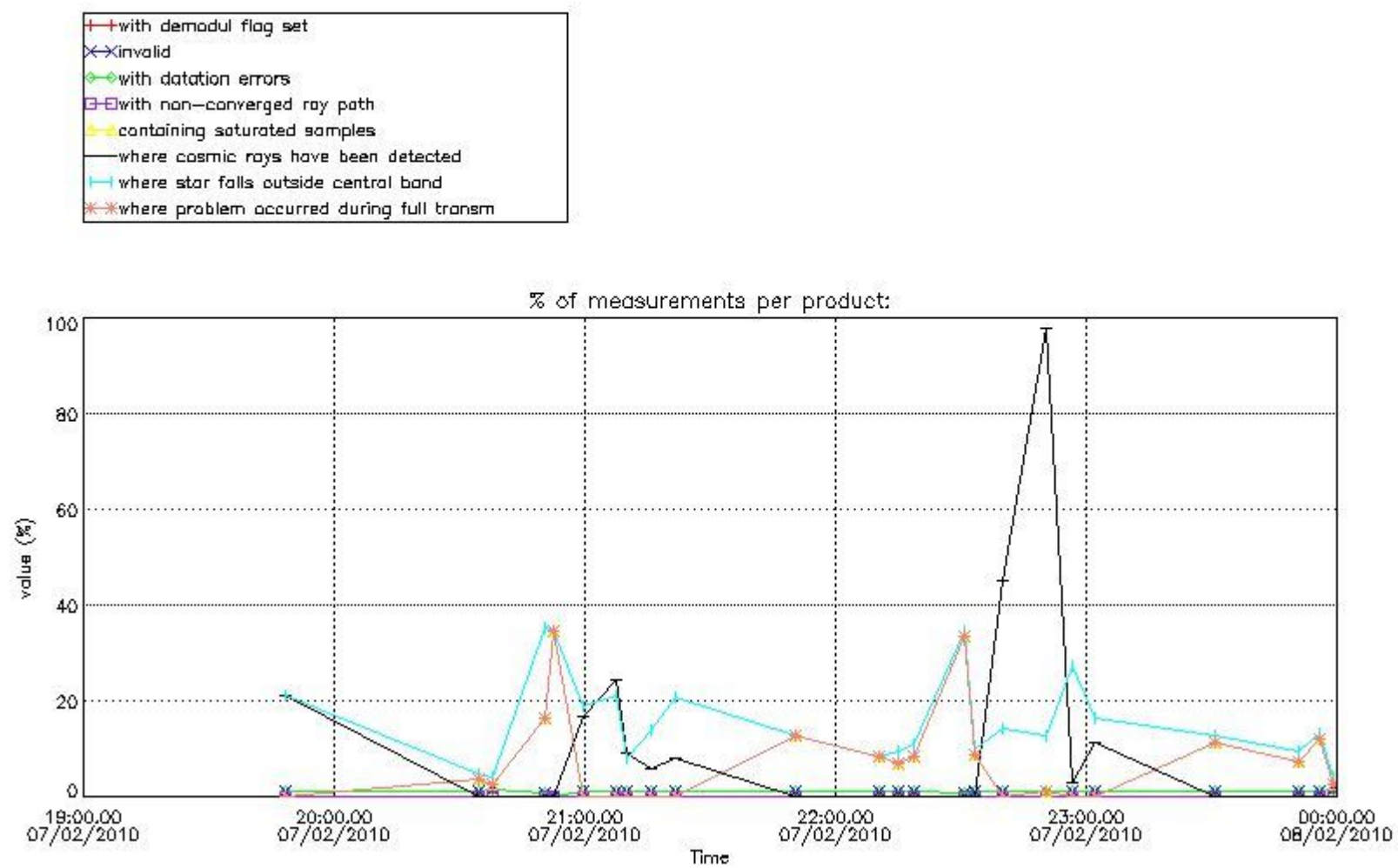
5. Demodulation flag and quality information monitoring

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.

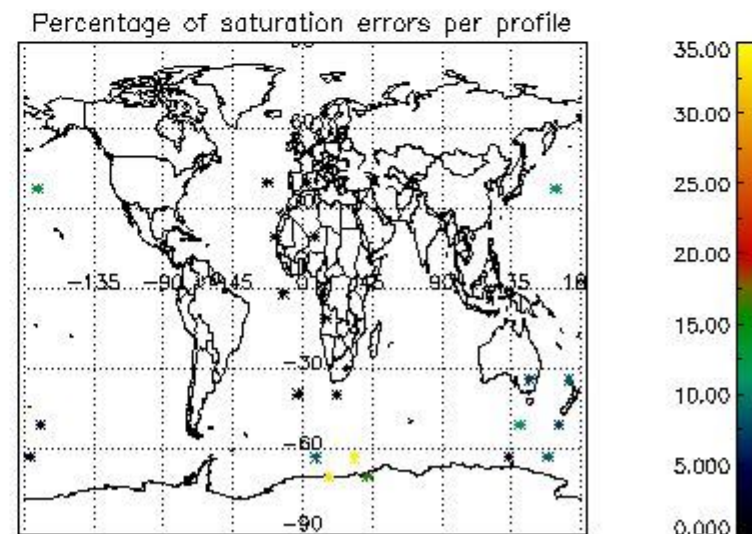
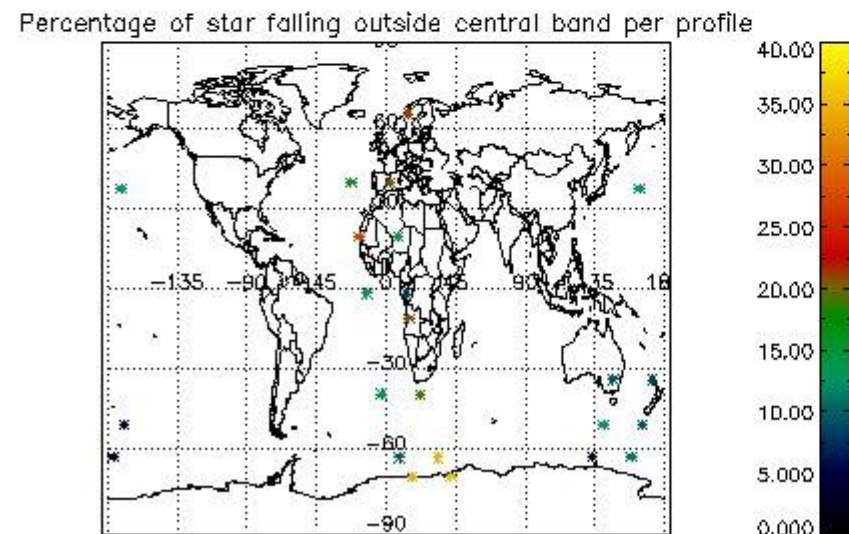
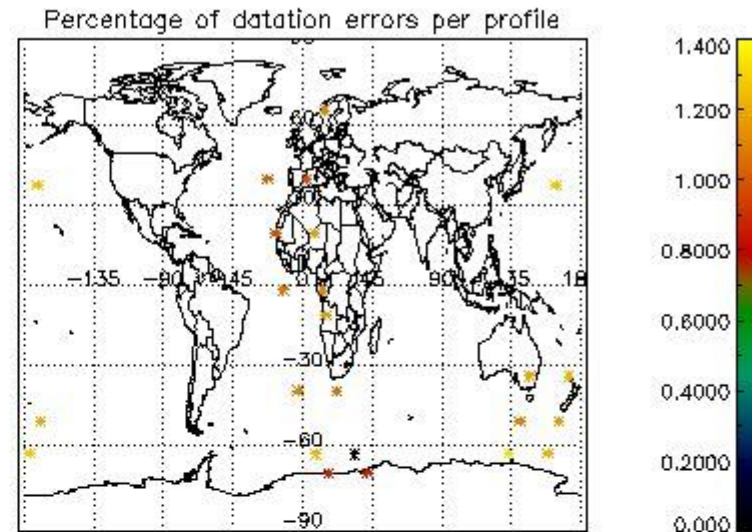
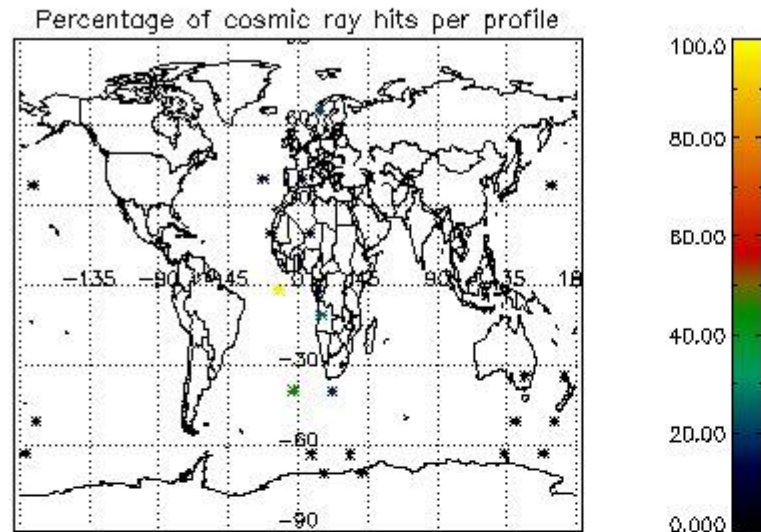
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.5000 %
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)



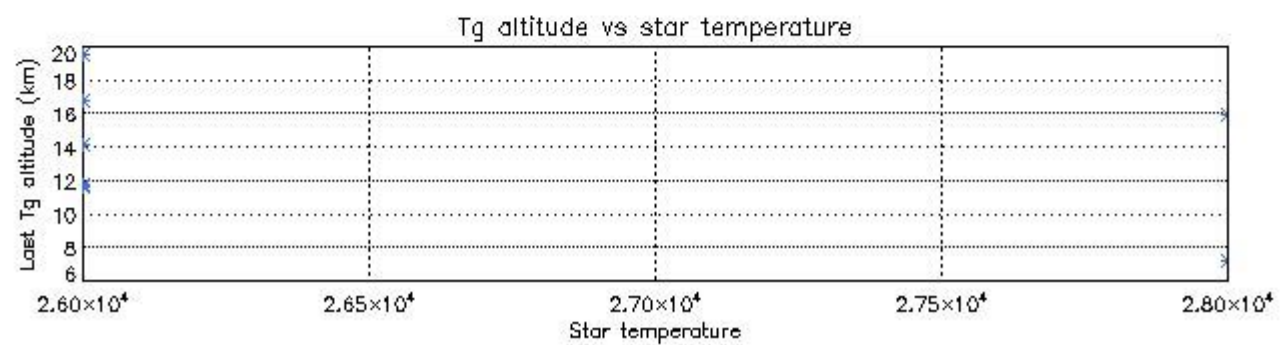
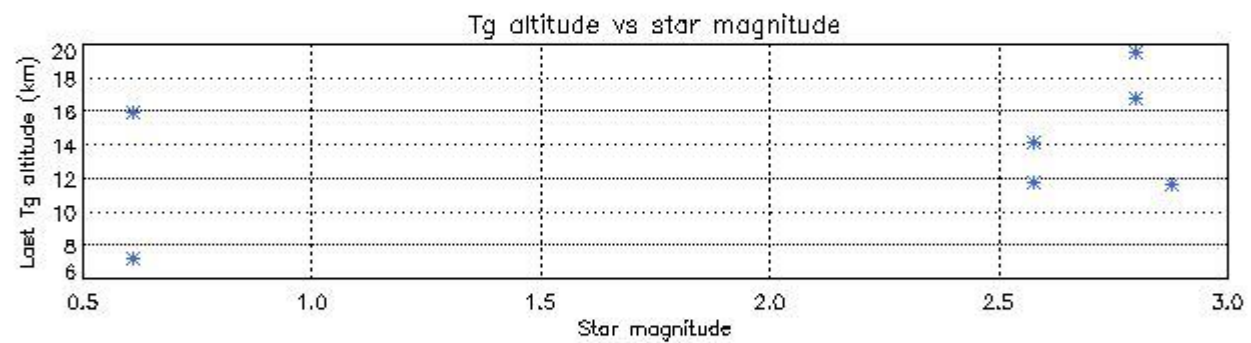
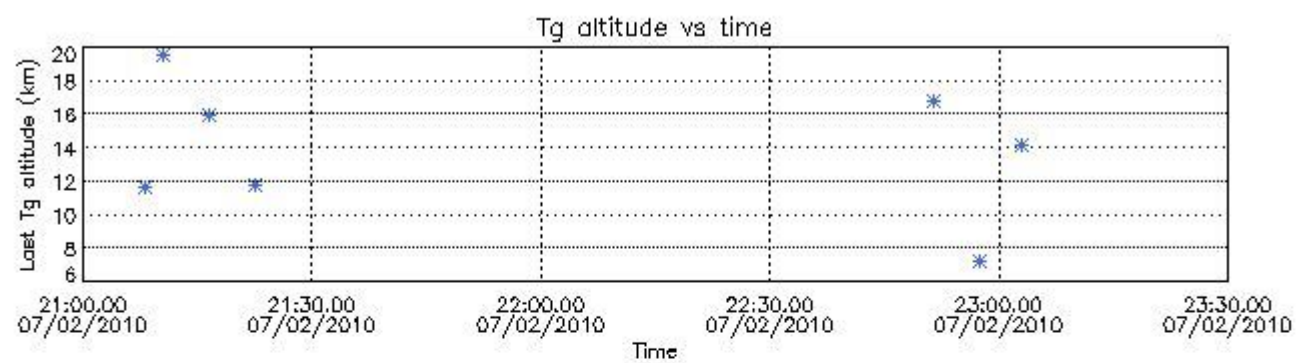
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.835	15.590	13.236
St. deviation:	4.0458	6.3667	0.82638
Maximum:	19.477	23.369	13.820
Minimum:	7.2289	4.2510	12.652
Number of data:	7.0000	14.000	2.0000

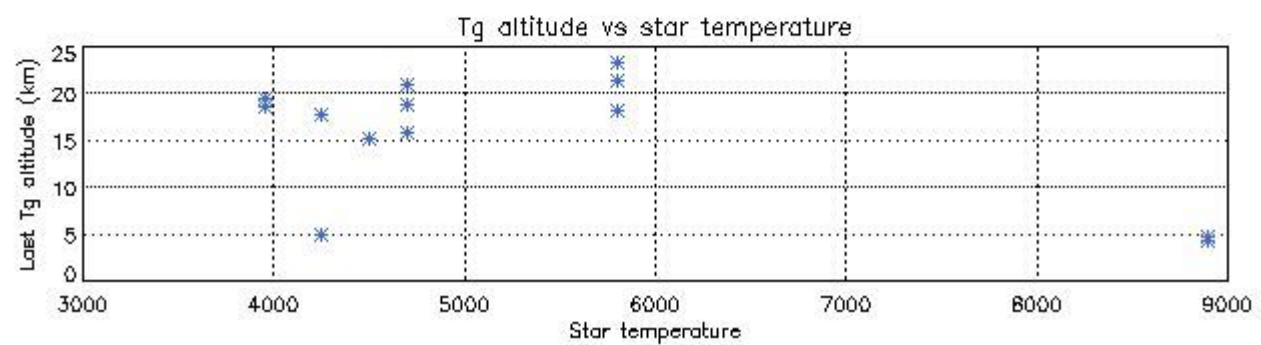
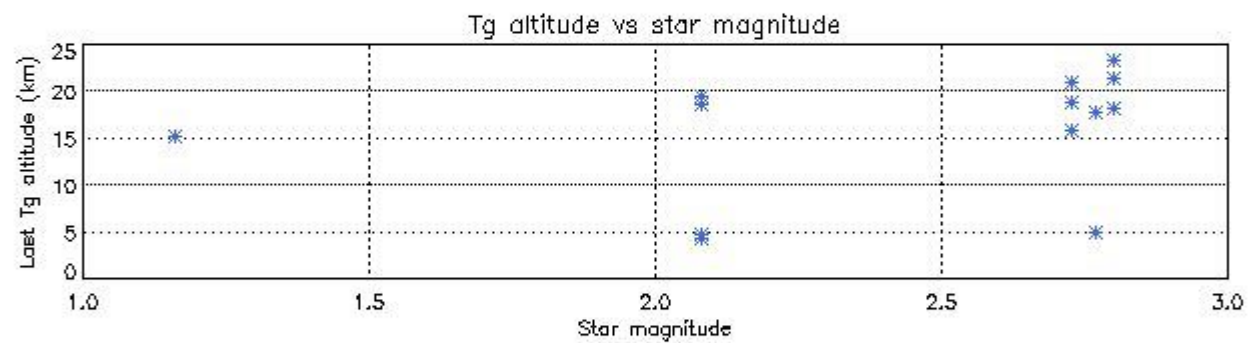
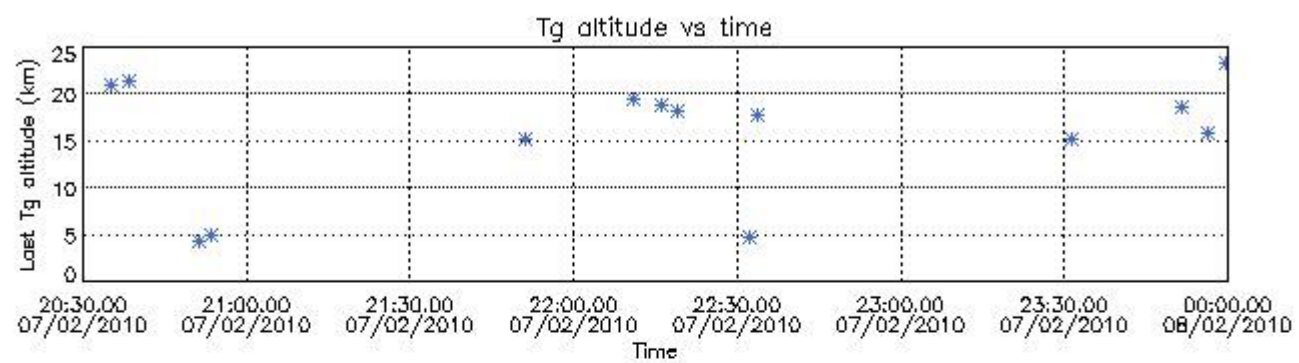
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



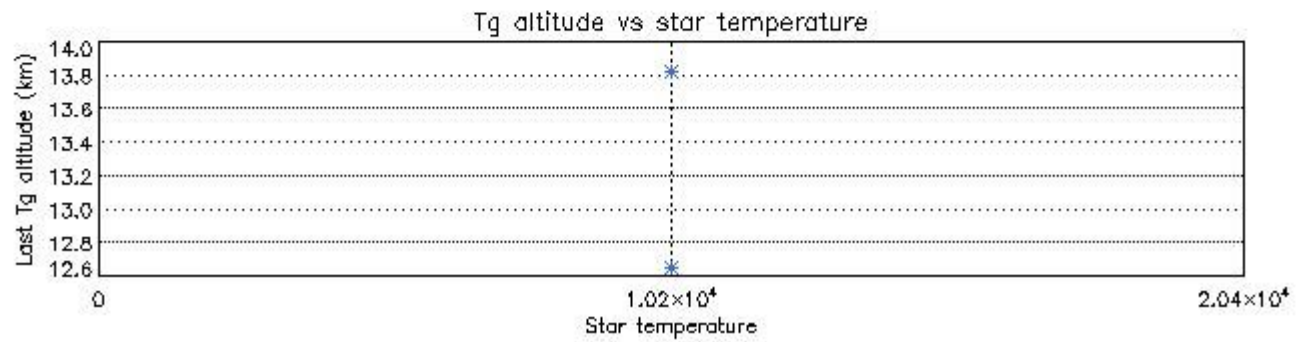
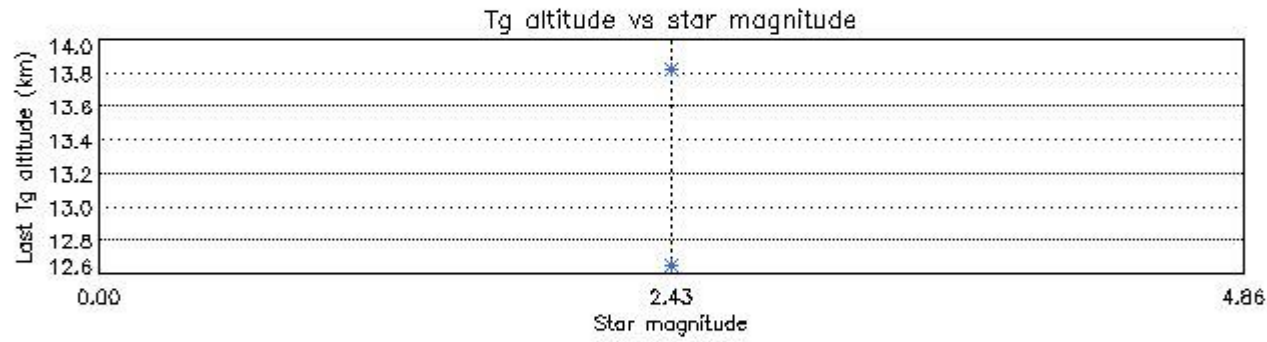
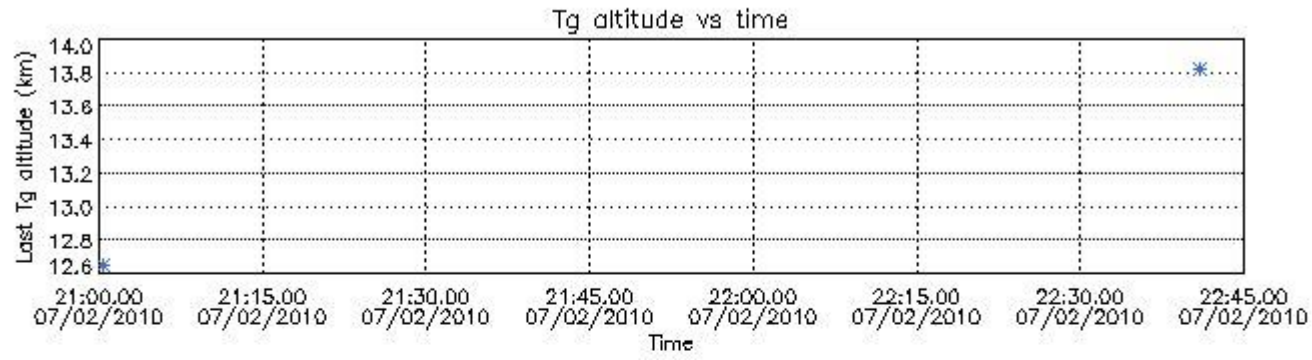
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

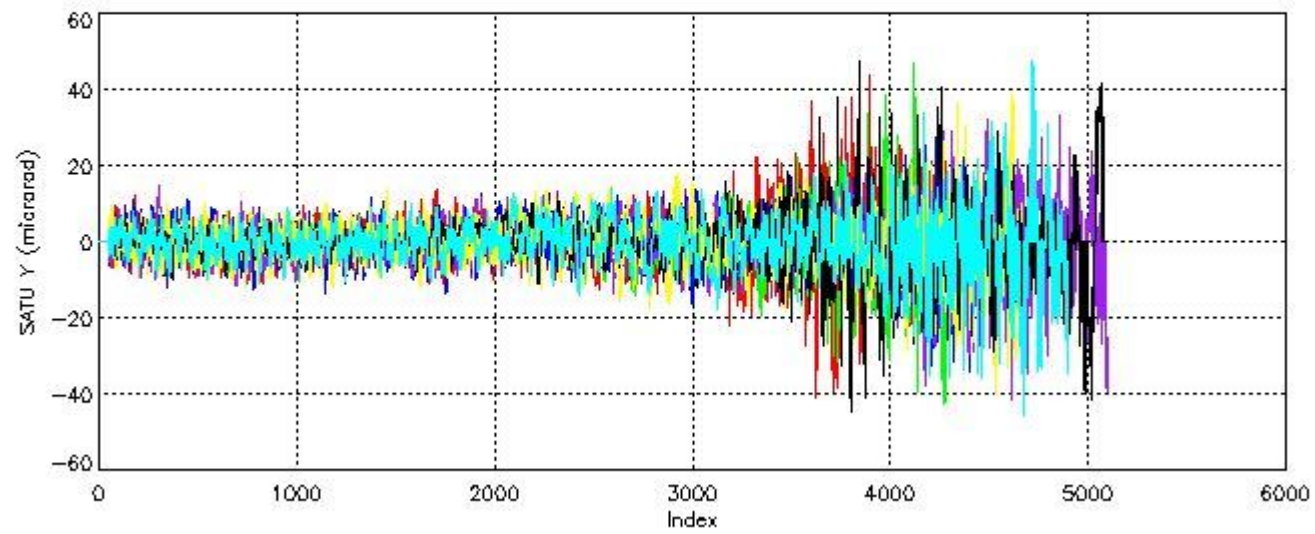
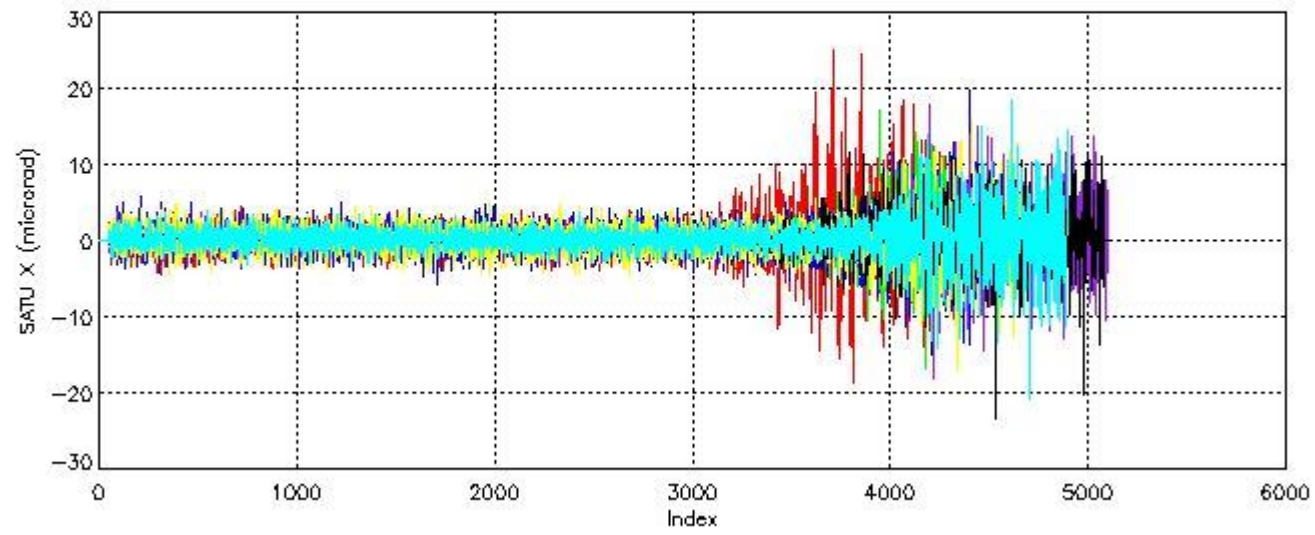


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.21559	-0.25201	0.13098	-0.42109
St. deviation:	0.98461	3.5496	0.58455	3.0438
Maximum:	5.9000	14.700	2.9000	9.5000
Minimum:	-4.5000	-12.600	-2.6000	-13.700

Number of data:	6950.0	6950.0	13000.	13000.
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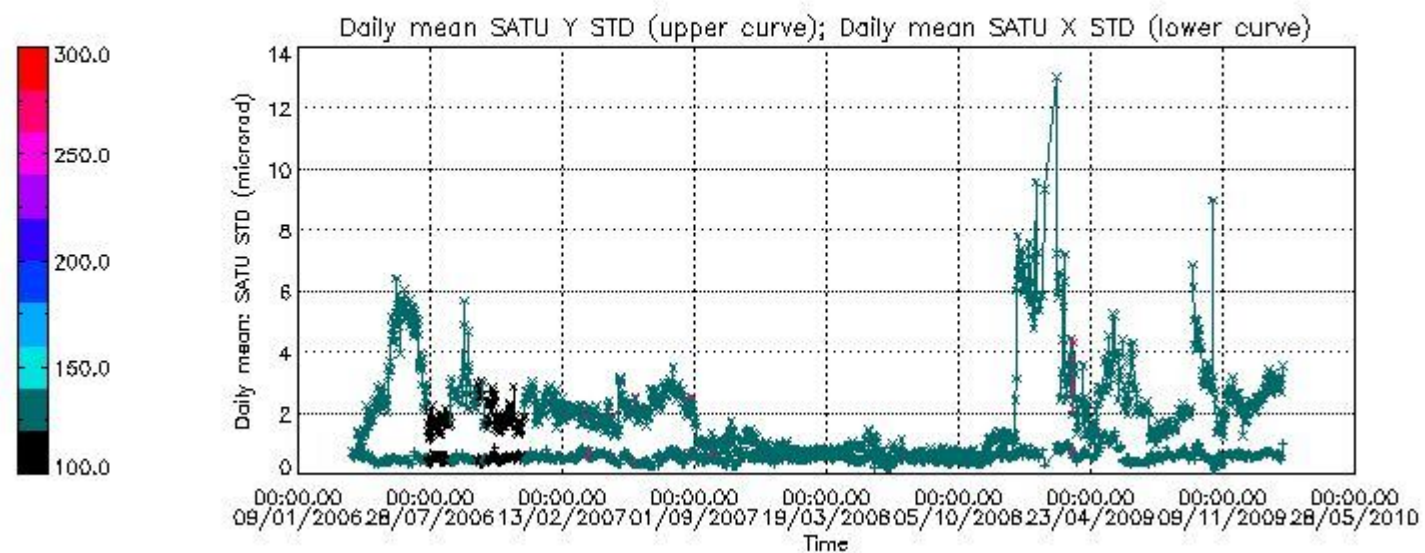
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

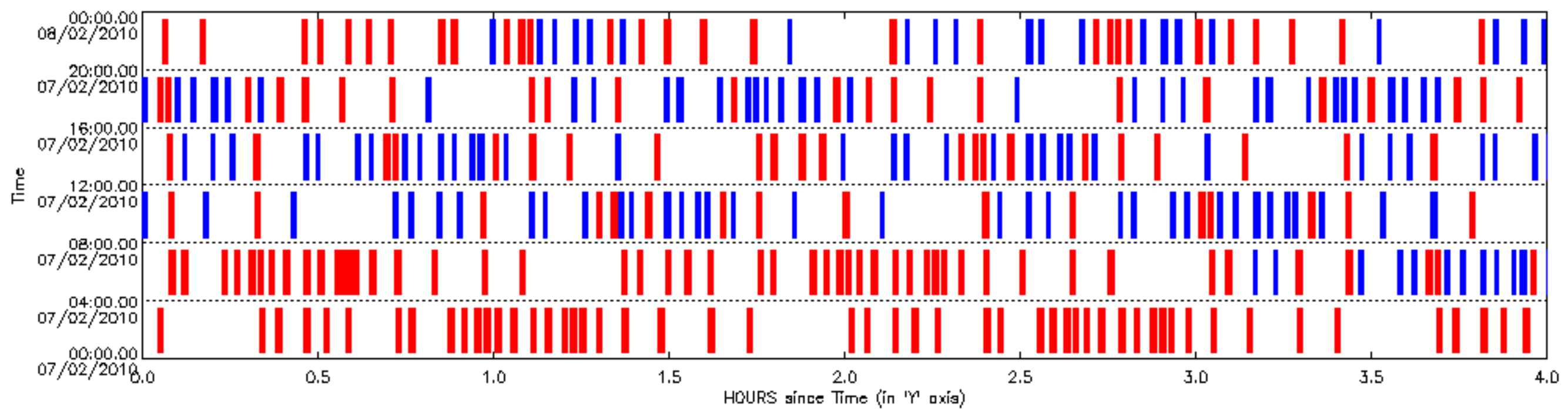
Lower curve: STD of SATU X axis

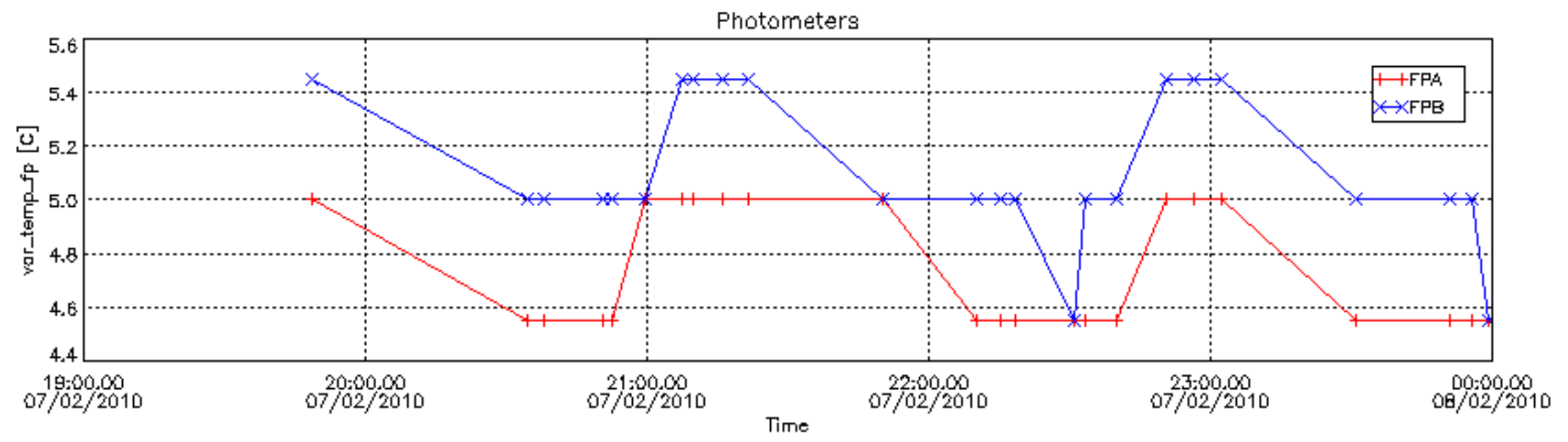
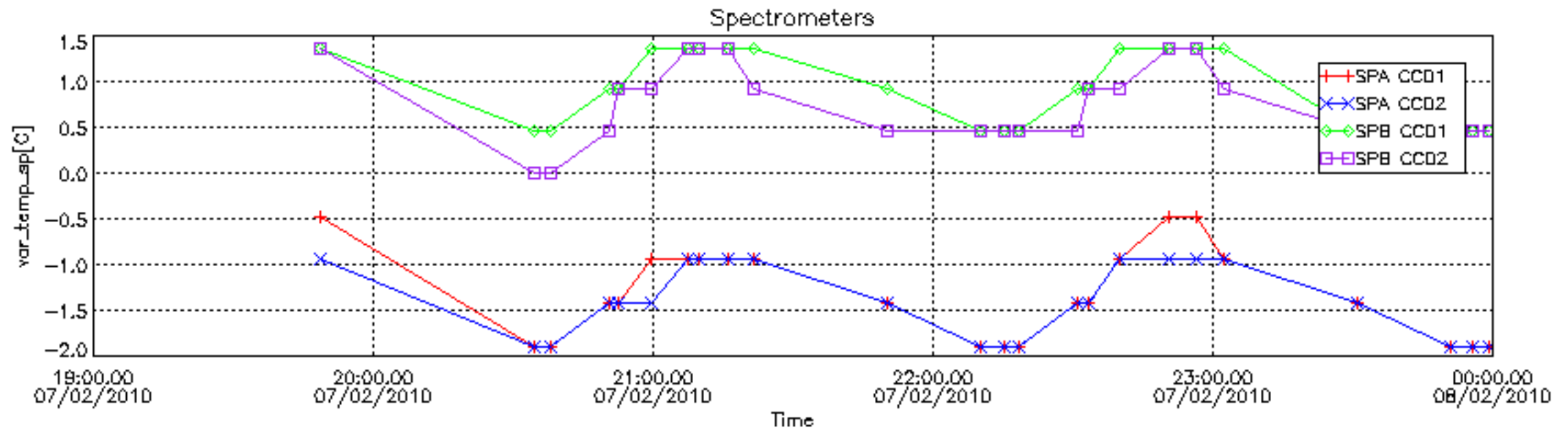


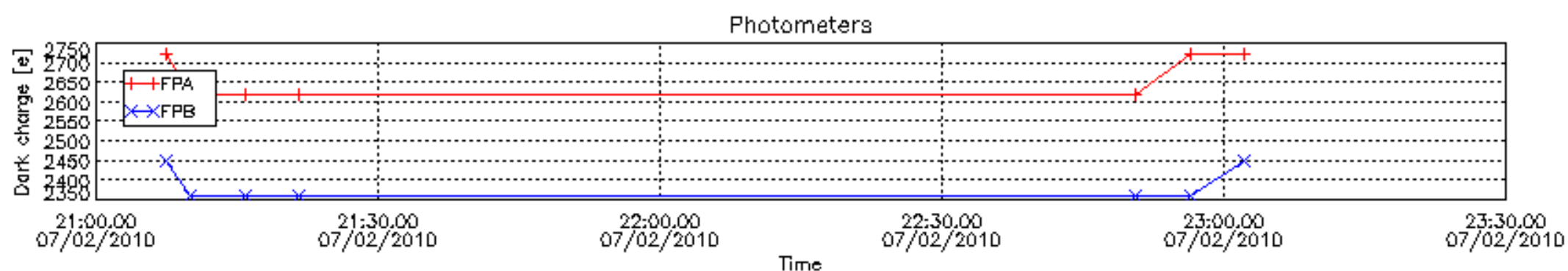
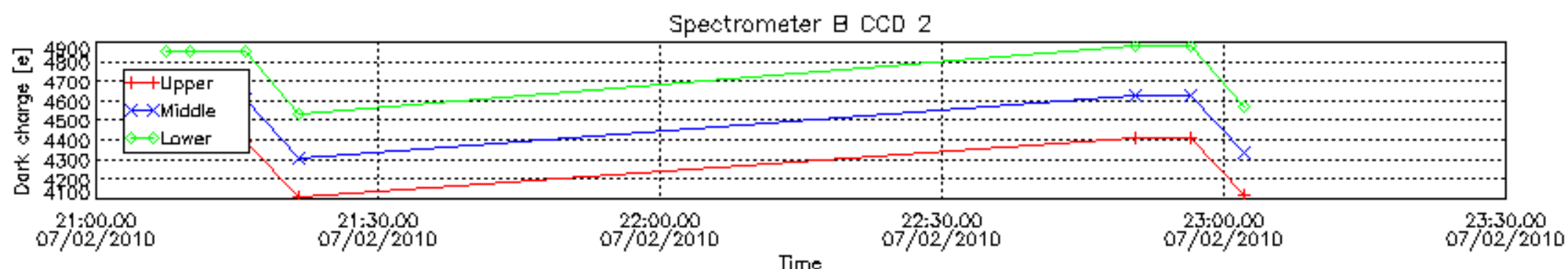
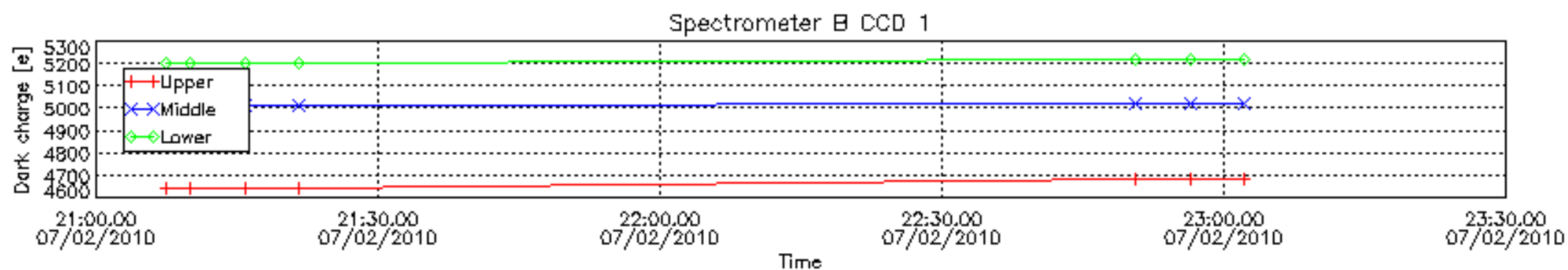
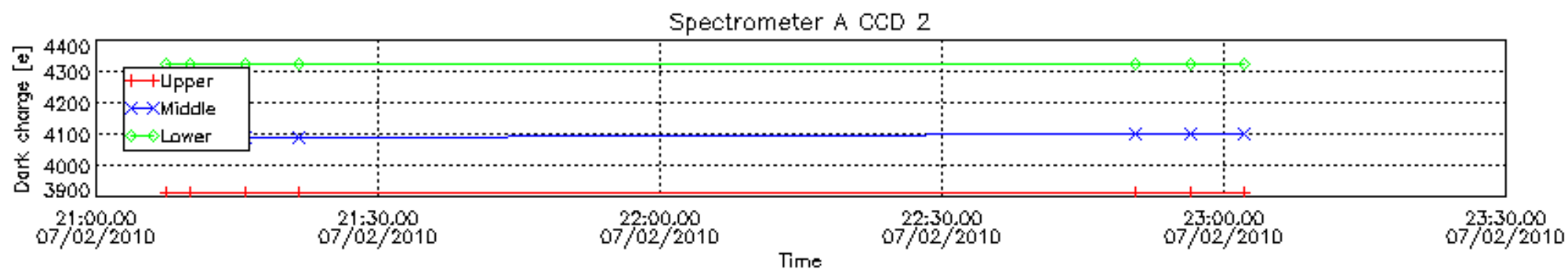
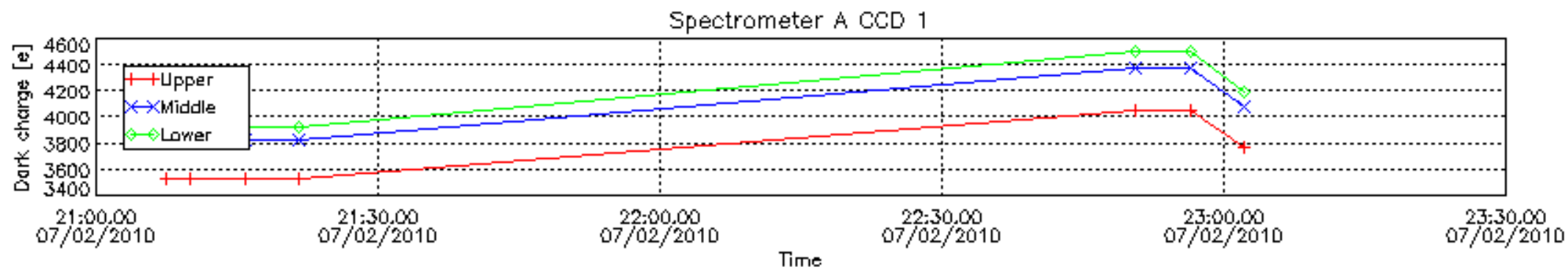
8. Auxiliary Data Files used for the production reported in section 2.4

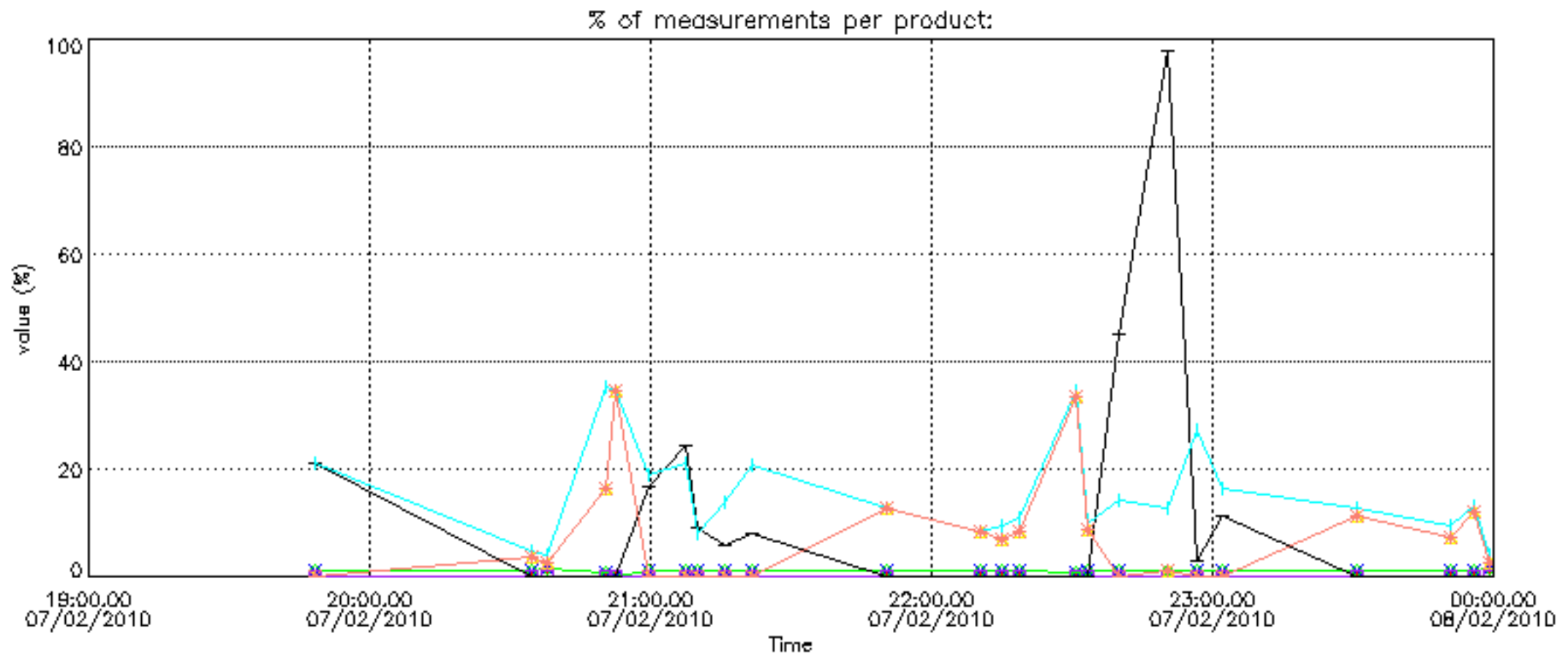
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	07-FEB-2010 19:48:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100202_143945_20100131_000000_20500101_000000	1	07-FEB-2010 19:48:26
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	07-FEB-2010 19:48:26
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-FEB-2010 19:48:26
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	07-FEB-2010 19:48:26
ECMWF_FILE	AUX_ECA_AXNECM20100207_180113_20100207_090000_20100207_210000	1	07-FEB-2010 19:48:26
ECMWF_FILE	AUX_ECF_AXNECM20100207_062113_20100207_150000_20100208_030000	6	07-FEB-2010 20:59:24
ECMWF_FILE	AUX_ECF_AXNECM20100207_062114_20100207_210000_20100208_090000	17	07-FEB-2010 22:40:01
OPTIONAL_ECMWF_FILE	MISSING	1	07-FEB-2010 19:48:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100207_194139_000038252086_00386_41522_9719.N1	1	07-FEB-2010 19:48:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100207_205043_000060572086_00386_41522_9720.N1	6	07-FEB-2010 20:59:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100207_223659_000057382086_00387_41523_9721.N1	17	07-FEB-2010 22:40:01

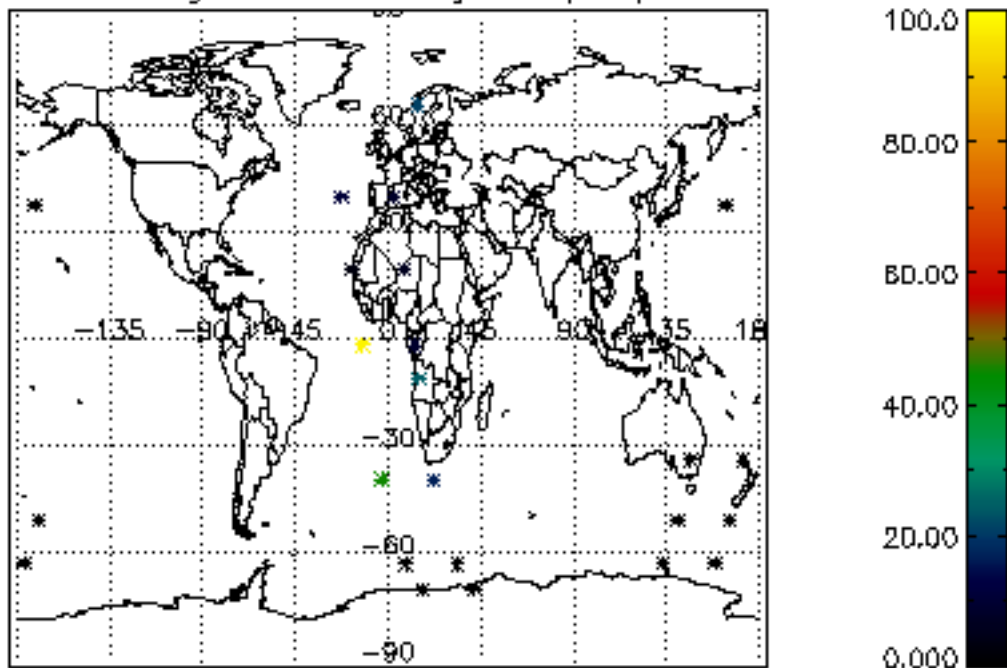




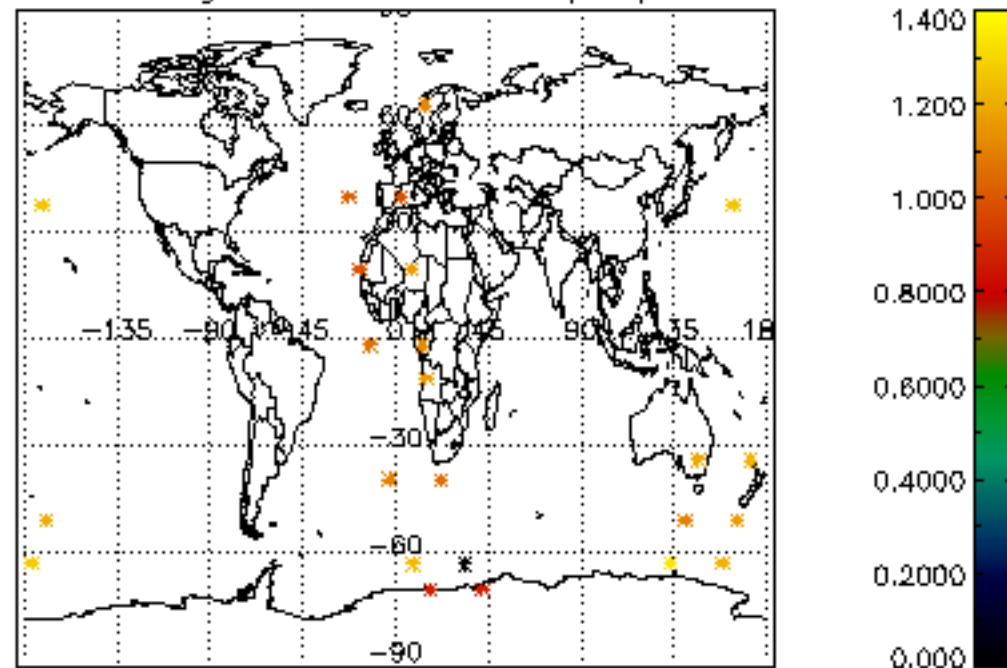




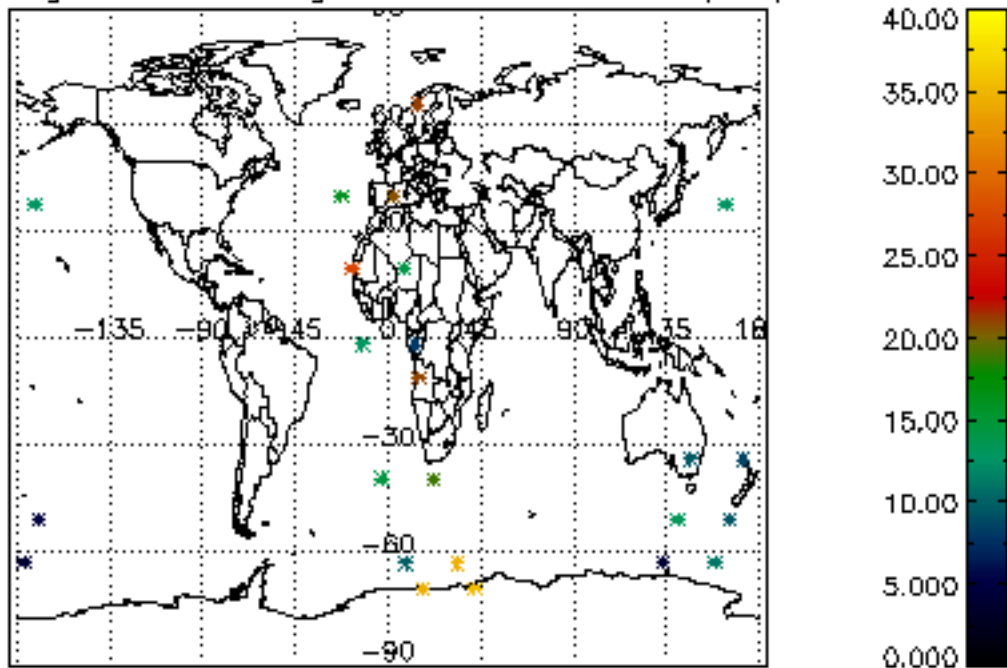
Percentage of cosmic ray hits per profile



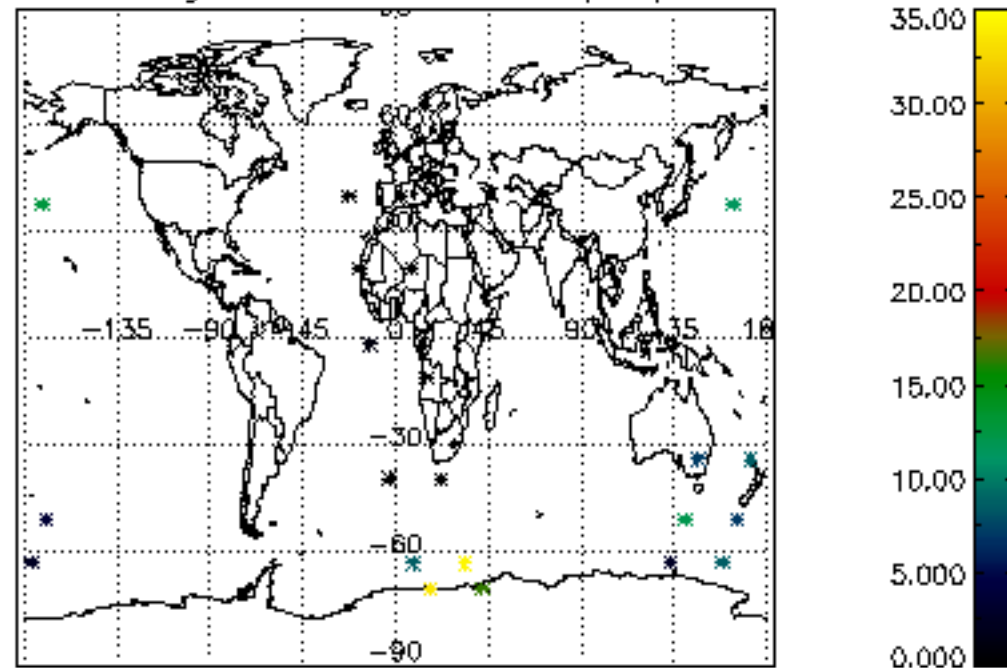
Percentage of datation errors per profile



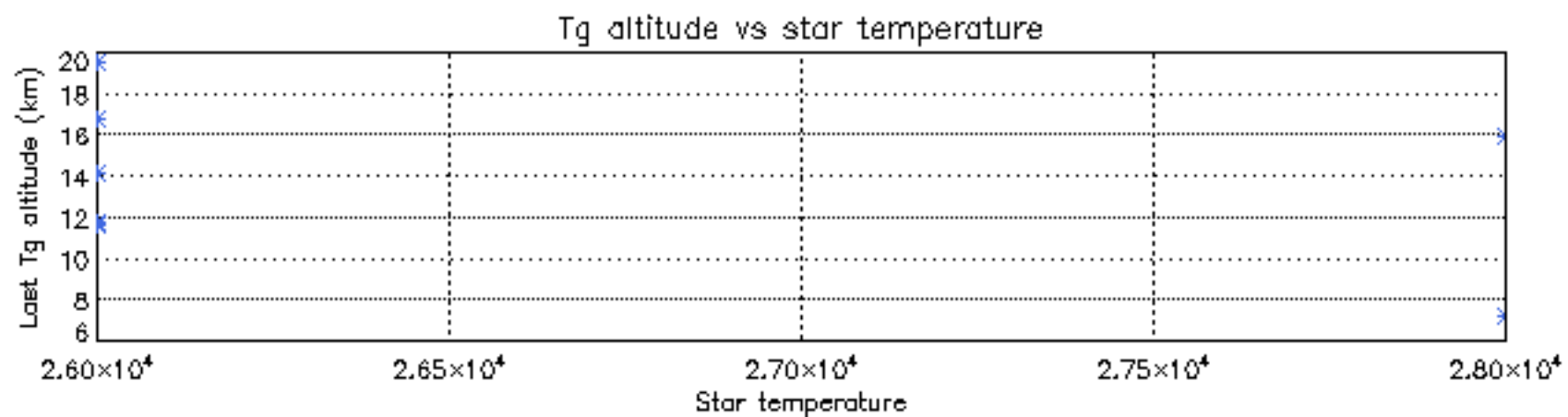
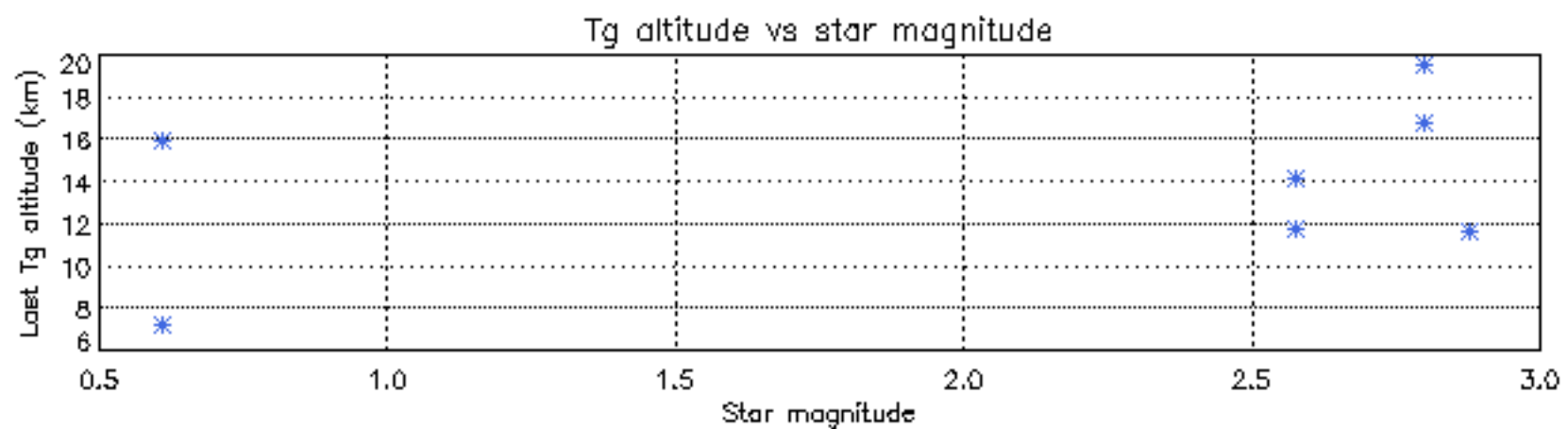
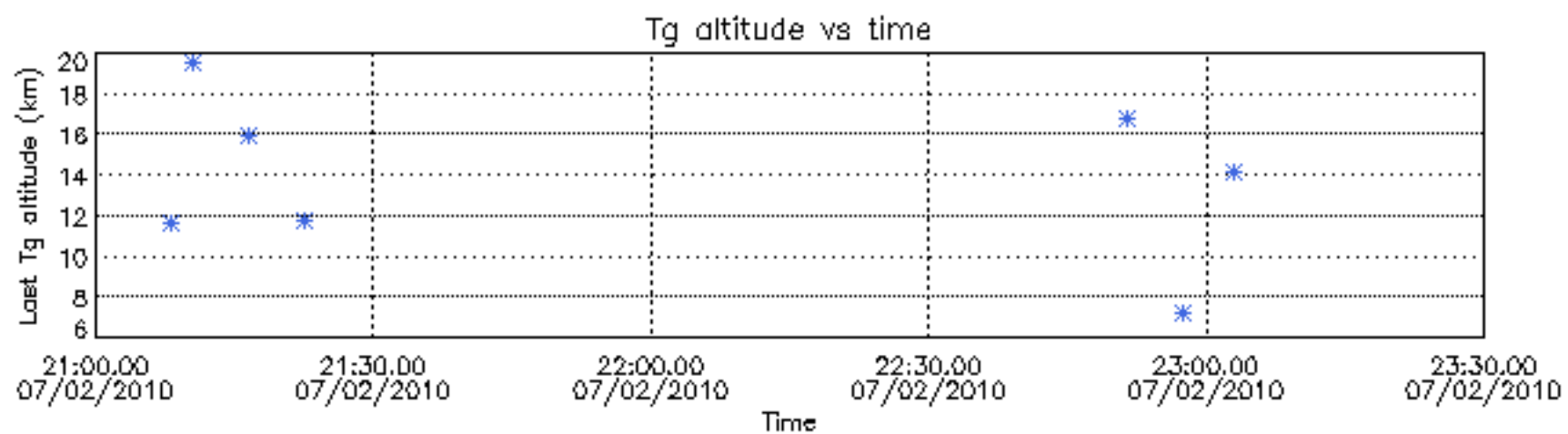
Percentage of star falling outside central band per profile



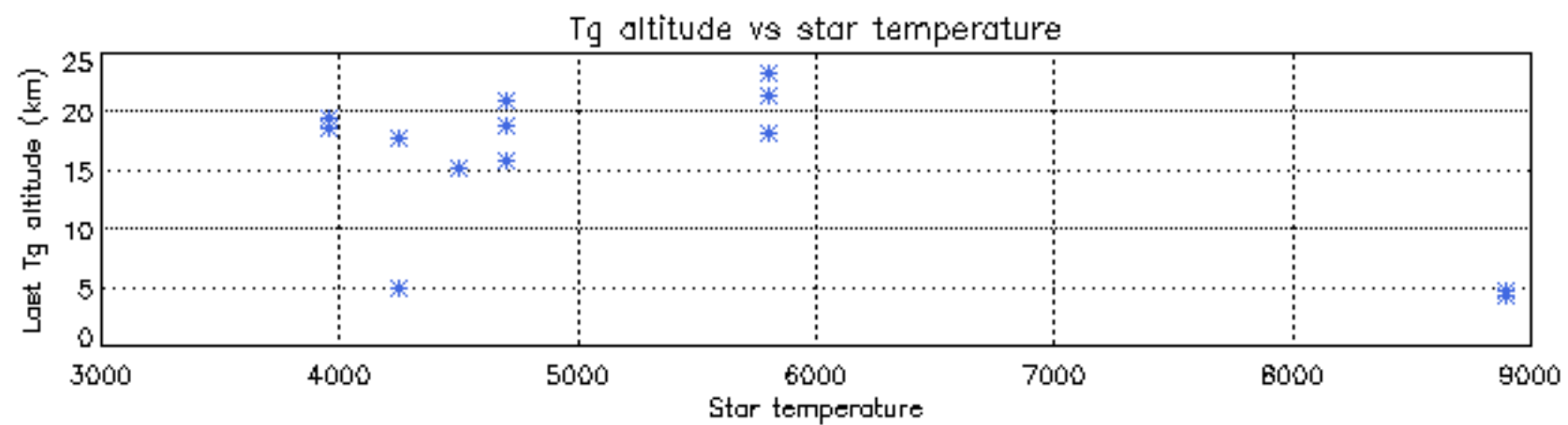
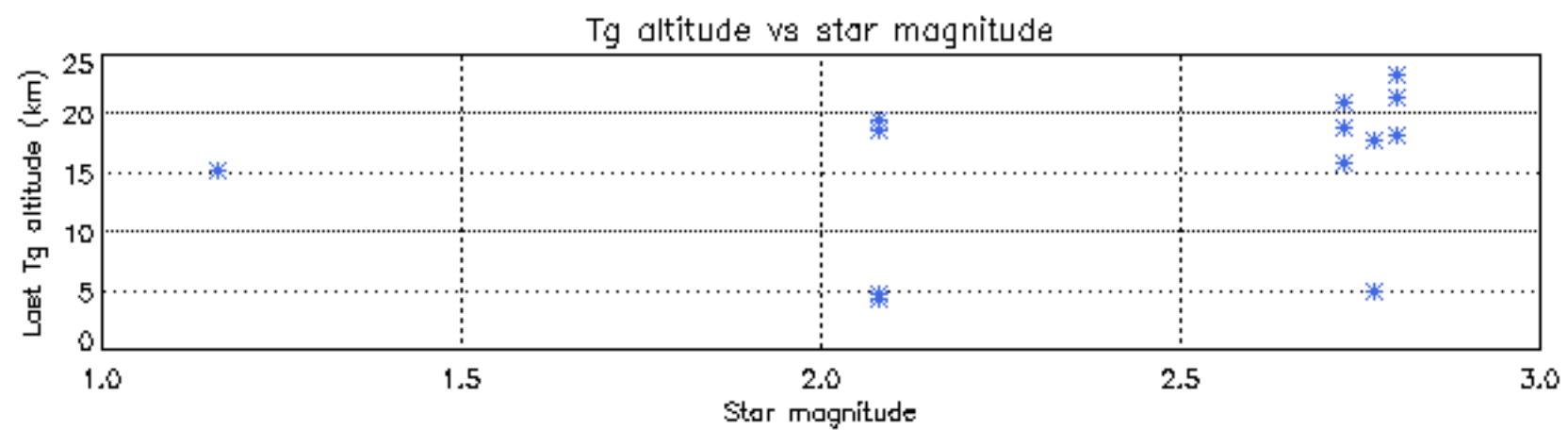
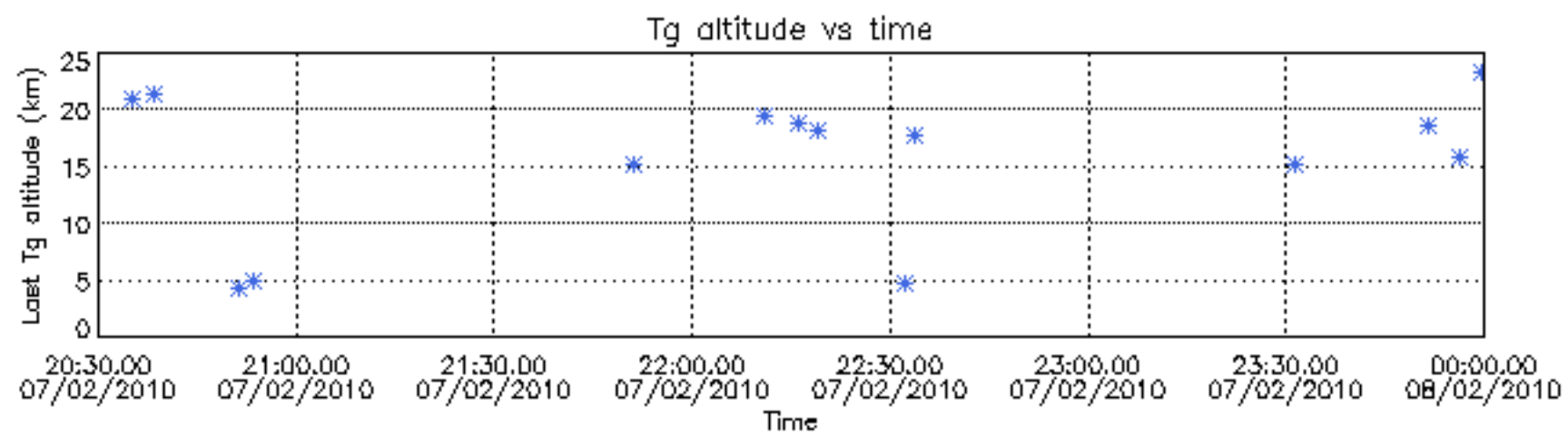
Percentage of saturation errors per profile



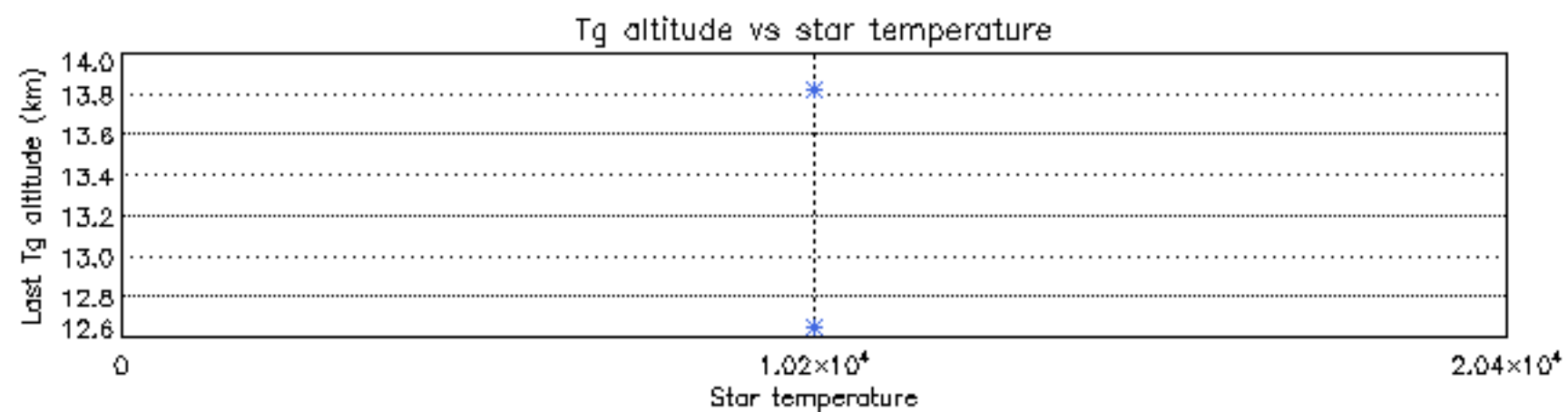
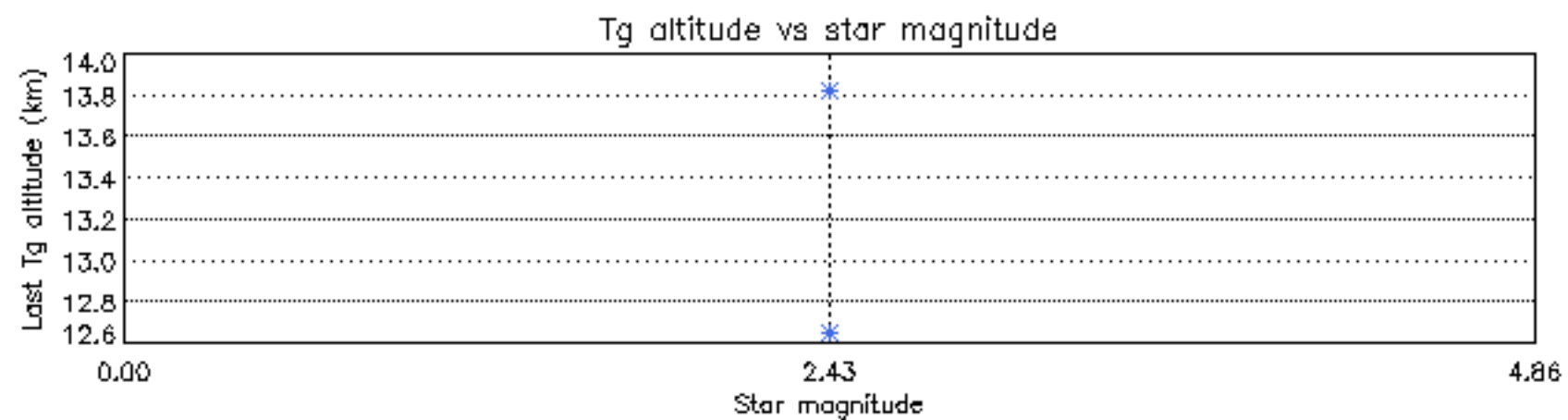
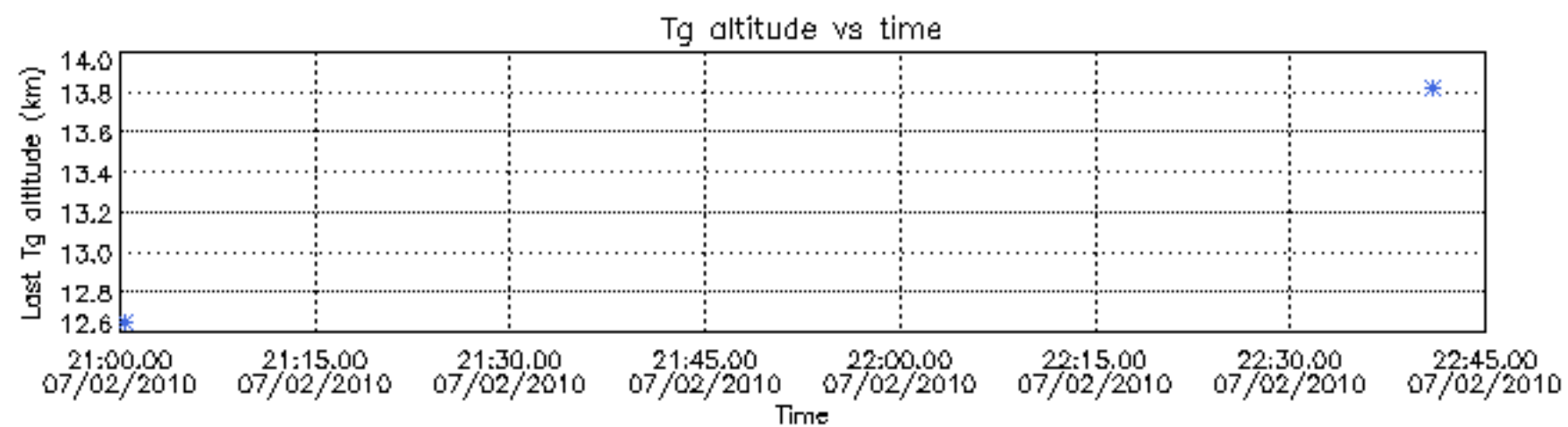
Tangent altitude at which the star is lost

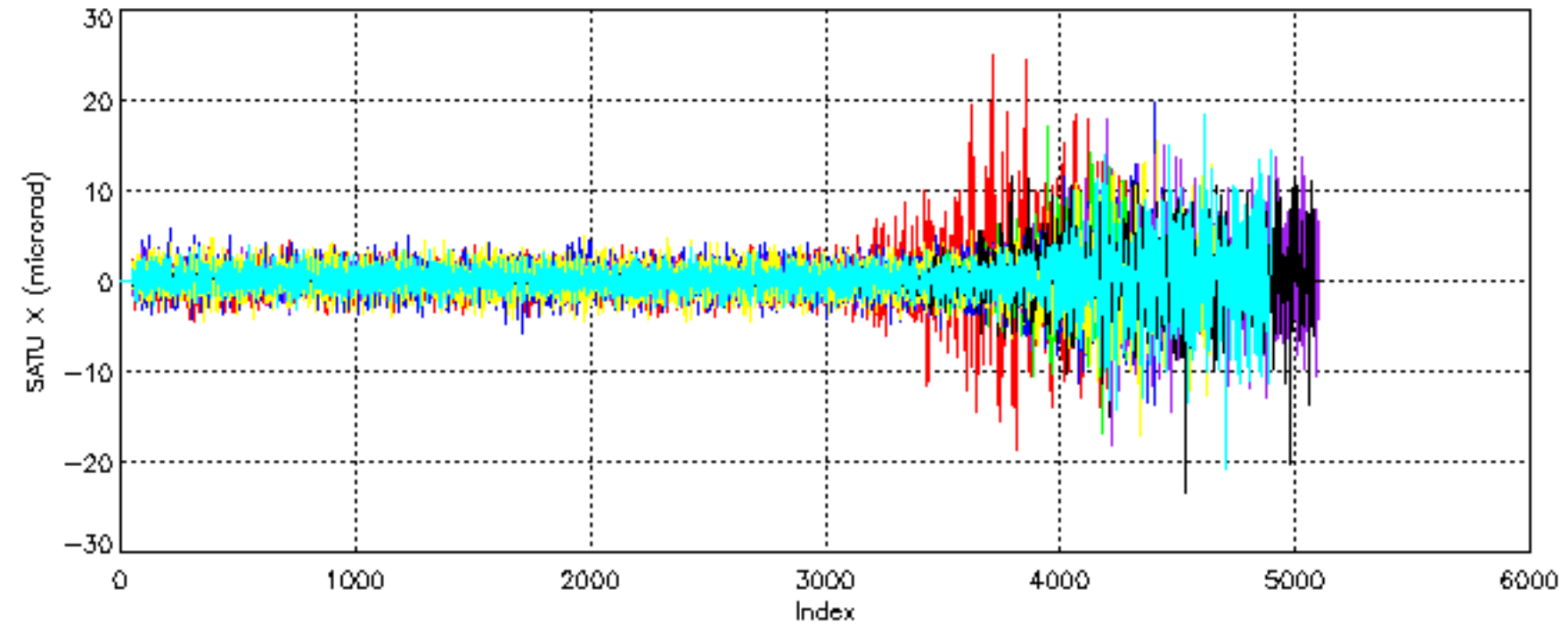


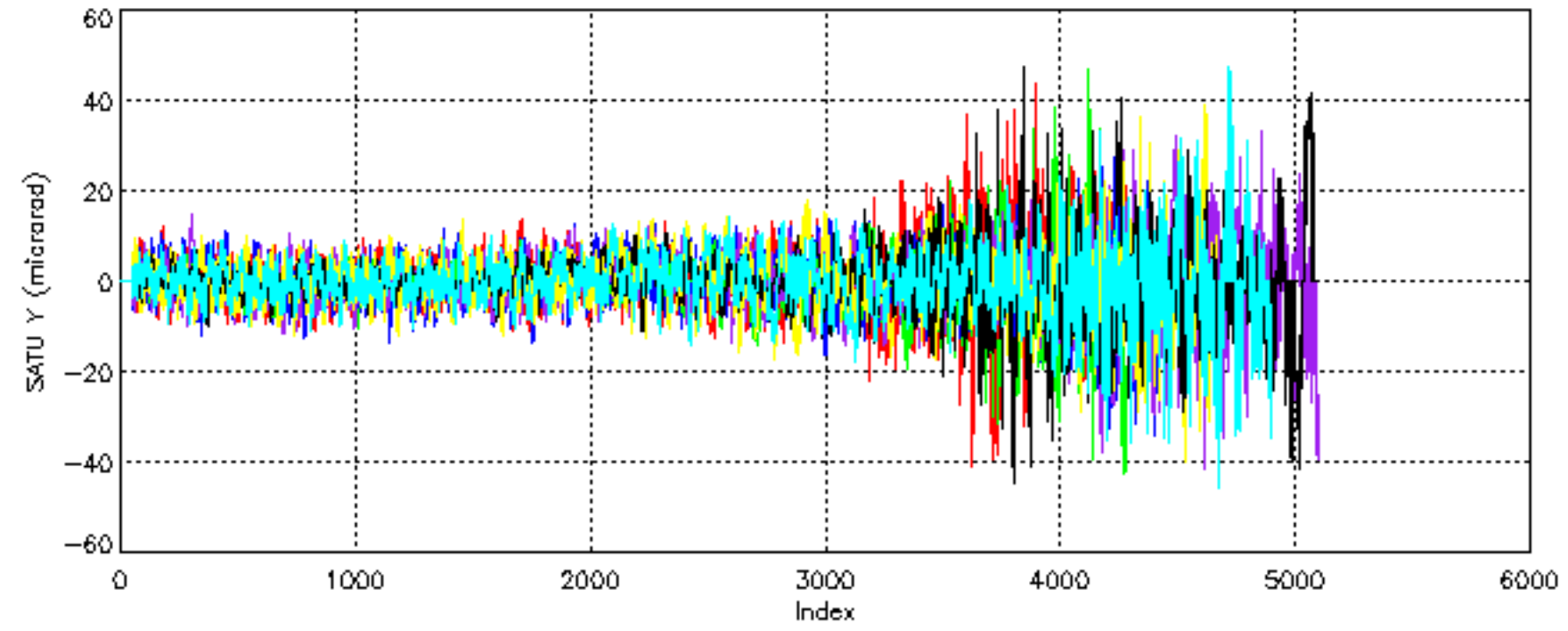
Tangent altitude at which the star is lost

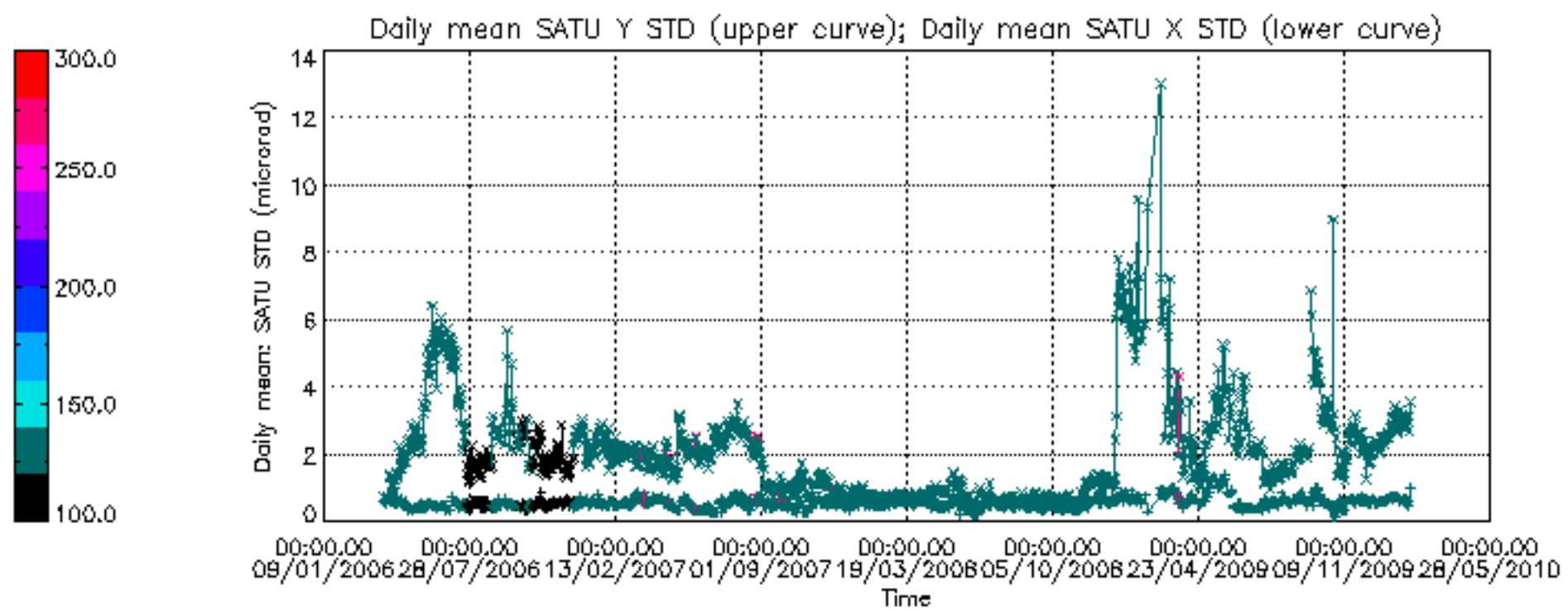


Tangent altitude at which the star is lost









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

1; -718.0; 01-FEB-2010 00:39:52; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 8;41424
 2; -463.4; 01-FEB-2010 00:44:06; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;41424
 3; -116.1; 01-FEB-2010 00:49:54; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;41424
 4; 17.5; 01-FEB-2010 00:52:07; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41425
 5; 106.9; 01-FEB-2010 00:53:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41425
 6; 194.7; 01-FEB-2010 00:55:04; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;41425
 7; 311.1; 01-FEB-2010 00:57:01; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;41425
 8; 470.4; 01-FEB-2010 00:59:40; Dark ; 50.0; 12; Alp1Cru ; 0.77; 30000;occ; 100; 0;41425
 9; 591.6; 01-FEB-2010 01:01:41; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41425
 10; 708.5; 01-FEB-2010 01:03:38; Dark ; 42.0; 159; Ups Car ; 2.92; 7200;occ; 84; 0;41425
 11; 823.9; 01-FEB-2010 01:05:34; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;41425
 12; 928.5; 01-FEB-2010 01:07:18; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;41425
 13; 1080.0; 01-FEB-2010 01:09:50; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;41425
 14; 1205.0; 01-FEB-2010 01:11:55; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;41425
 15; 1467.4; 01-FEB-2010 01:16:17; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;41425
 16; 1992.9; 01-FEB-2010 01:25:03; Dark ; 45.0; 8; 10Alp CMi ; 0.40; 6500;occ; 90; 0;41425
 17; 2341.1; 01-FEB-2010 01:30:51; Bright; 38.0; 170; 27Eps Gem ; 3.00; 9700;occ; 76; 0;41425
 18; 2455.8; 01-FEB-2010 01:32:46; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41425
 19; 3427.8; 01-FEB-2010 01:48:58; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;41425
 20; 3613.3; 01-FEB-2010 01:52:03; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41425
 21; 3896.6; 01-FEB-2010 01:56:46; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;41425
 22; 4087.0; 01-FEB-2010 01:59:57; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41425
 23; 4304.9; 01-FEB-2010 02:03:35; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;41425
 24; 4797.7; 01-FEB-2010 02:11:48; Bright; 55.0; 59; 55Alp Oph ; 2.08; 8900;occ; 110; 0;41425
 25; 4925.7; 01-FEB-2010 02:13:55; Bright; 53.5; 126; 60Bet Oph ; 2.77; 4250;occ; 107; 0;41425

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

1; -1080.7; 01-FEB-2010 02:14:25; Bright; 54.0; 126; 60Bet Oph ; 2.77; 4250;occ; 108; 59;41425
 2; -721.4; 01-FEB-2010 02:20:24; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;41425
 3; -462.6; 01-FEB-2010 02:24:43; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;41425
 4; -378.9; 01-FEB-2010 02:26:07; Dark ; 44.5; 158; 6Pi Sco ; 2.91; 28000;occ; 89; 0;41425
 5; -115.5; 01-FEB-2010 02:30:30; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;41425
 6; 18.5; 01-FEB-2010 02:32:44; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41426
 7; 107.6; 01-FEB-2010 02:34:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41426
 8; 195.5; 01-FEB-2010 02:35:41; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;41426
 9; 312.2; 01-FEB-2010 02:37:38; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41426
 10; 470.9; 01-FEB-2010 02:40:17; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41426
 11; 592.5; 01-FEB-2010 02:42:18; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41426
 12; 709.0; 01-FEB-2010 02:44:15; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41426
 13; 824.1; 01-FEB-2010 02:46:10; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41426
 14; 929.0; 01-FEB-2010 02:47:55; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41426
 15; 1080.4; 01-FEB-2010 02:50:26; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;41426
 16; 1205.4; 01-FEB-2010 02:52:31; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;41426
 17; 1467.2; 01-FEB-2010 02:56:53; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;41426
 18; 1993.0; 01-FEB-2010 03:05:39; Dark ; 50.0; 8; 10Alp CMi ; 0.40; 6500;occ; 100; 0;41426
 19; 2341.2; 01-FEB-2010 03:11:27; Bright; 38.0; 170; 27Eps Gem ; 3.00; 9700;occ; 76; 0;41426
 20; 2455.9; 01-FEB-2010 03:13:22; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41426
 21; 3427.9; 01-FEB-2010 03:29:34; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41426

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100201_033239_000060732086_00290_41426_9423.N1

1; -2422.8; 01-FEB-2010 03:32:39; Bright; 44.5; 60; 7Bet UMi ; 2.08; 3950;occ; 89; 0;41426
 2; -2139.8; 01-FEB-2010 03:37:22; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;41426
 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
 6; -1110.0; 01-FEB-2010 03:54:32; Bright; 42.5; 126; 60Bet Oph ; 2.77; 4250;occ; 85; 0;41426
 7; -720.8; 01-FEB-2010 04:01:01; Dark ; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;41426
 8; -462.1; 01-FEB-2010 04:05:20; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;41426
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2; 2389.7; 03-FEB-2010 08:51:25; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;41458
3; 3428.1; 03-FEB-2010 09:08:43; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;41458

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4; 3605.3; 03-FEB-2010 09:11:41; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41458
5; 3890.3; 03-FEB-2010 09:16:26; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;41458
6; 4086.4; 03-FEB-2010 09:19:42; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41458
7; 4309.3; 03-FEB-2010 09:23:25; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;41458
8; 4807.5; 03-FEB-2010 09:31:43; Bright; 56.0; 59; 55Alp Oph ; 2.08; 8900;occ; 112; 0;41458
9; 4936.4; 03-FEB-2010 09:33:52; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;41458
10; 5332.0; 03-FEB-2010 09:40:27; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;41458
11; 5597.0; 03-FEB-2010 09:44:52; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;41458
12; 5687.6; 03-FEB-2010 09:46:23; Dark ; 46.5; 158; 6Pi Sco ; 2.91; 28000;occ; 93; 0;41458
13; 5947.9; 03-FEB-2010 09:50:43; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;41458
14; 6084.8; 03-FEB-2010 09:53:00; Dark ; 46.0; 109; Bet Lup ; 2.68; 26000;occ; 92; 0;41458
15; 6166.9; 03-FEB-2010 09:54:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41458
16; 6249.5; 03-FEB-2010 09:55:45; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;41458
17; 6323.0; 03-FEB-2010 09:56:58; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41458
18; 6524.5; 03-FEB-2010 10:00:20; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;41458
19; 6653.9; 03-FEB-2010 10:02:29; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;41458
20; 6755.3; 03-FEB-2010 10:04:11; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;41458
21; 6870.6; 03-FEB-2010 10:06:06; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;41458
22; 6974.2; 03-FEB-2010 10:07:49; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41458
23; 7127.5; 03-FEB-2010 10:10:23; Dark ; 46.0; 65; Lam Vel ; 2.20; 4400;occ; 92; 0;41458
24; 7248.9; 03-FEB-2010 10:12:24; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;41458
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3; 3428.2; 03-FEB-2010 10:49:19; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41459
4; 3604.8; 03-FEB-2010 10:52:16; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;41459
5; 3890.1; 03-FEB-2010 10:57:01; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;41459
6; 4086.4; 03-FEB-2010 11:00:18; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;41459
7; 4309.4; 03-FEB-2010 11:04:01; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;41459
8; 4808.0; 03-FEB-2010 11:12:19; Bright; 42.5; 59; 55Alp Oph ; 2.08; 8900;occ; 85; 0;41459
9; 4936.8; 03-FEB-2010 11:14:28; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41459
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11; 5597.7; 03-FEB-2010 11:25:29; Dark ; 61.0; 16; 21Alp Sco ; 1.02; 3000;occ; 122; 0;41459
12; 5688.4; 03-FEB-2010 11:27:00; Dark ; 46.0; 158; 6Pi Sco ; 2.91; 28000;occ; 92; 0;41459
13; 5948.4; 03-FEB-2010 11:31:20; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;41459
14; 6085.9; 03-FEB-2010 11:33:37; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41459
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16; 6323.5; 03-FEB-2010 11:37:35; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41459
17; 6524.8; 03-FEB-2010 11:40:56; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;41459
18; 6654.4; 03-FEB-2010 11:43:06; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;41459
19; 6755.4; 03-FEB-2010 11:44:47; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41459
20; 6870.5; 03-FEB-2010 11:46:42; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;41459
21; 6974.1; 03-FEB-2010 11:48:25; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;41459
22; 7128.2; 03-FEB-2010 11:50:59; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;41459
23; 7248.6; 03-FEB-2010 11:53:00; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;41459
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4; 3428.0; 03-FEB-2010 12:29:55; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;41460
5; 3604.8; 03-FEB-2010 12:32:52; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41460
6; 3889.9; 03-FEB-2010 12:37:37; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;41460
7; 4086.2; 03-FEB-2010 12:40:53; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;41460
8; 4309.6; 03-FEB-2010 12:44:37; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;41460
9; 4808.2; 03-FEB-2010 12:52:55; Bright; 56.0; 59; 55Alp Oph ; 2.08; 8900;occ; 112; 0;41460
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13; 5689.6; 03-FEB-2010 13:07:37; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;41460
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19; 6755.9; 03-FEB-2010 13:25:23; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;41460
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22; 7128.1; 03-FEB-2010 13:31:35; Dark ; 46.0; 65; Lam Vel ; 2.20; 4400;occ; 92; 0;41460
23; 7249.2; 03-FEB-2010 13:33:36; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;41460
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 3; 3428.7; 03-FEB-2010 14:10:32; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;41461
 4; 3604.4; 03-FEB-2010 14:13:27; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;41461
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11; 5599.7; 03-FEB-2010 14:46:43; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0;41461
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13; 6012.1; 03-FEB-2010 14:53:35; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;41461
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23; 7249.4; 03-FEB-2010 15:14:12; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;41461
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 4; 3604.2; 03-FEB-2010 15:54:03; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41462
 5; 3889.6; 03-FEB-2010 15:58:48; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;41462
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 7; 4808.9; 03-FEB-2010 16:14:08; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;41462
 8; 4938.0; 03-FEB-2010 16:16:17; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;41462
 9; 5334.3; 03-FEB-2010 16:22:53; Dark ; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;41462
10; 5600.4; 03-FEB-2010 16:27:19; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;41462
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12; 5951.1; 03-FEB-2010 16:33:10; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;41462
13; 6088.8; 03-FEB-2010 16:35:28; Dark ; 46.0; 109; Bet Lup ; 2.68; 26000;occ; 92; 0;41462
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16; 6325.6; 03-FEB-2010 16:39:24; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41462
17; 6526.7; 03-FEB-2010 16:42:46; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;41462
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19; 6756.6; 03-FEB-2010 16:46:35; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;41462
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21; 6975.1; 03-FEB-2010 16:50:14; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41462
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 5; 3428.5; 03-FEB-2010 17:31:43; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;41463
 6; 3604.1; 03-FEB-2010 17:34:39; Bright; 45.0; 60; 7Bet UMi ; 2.08; 3950;occ; 90; 0;41463
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 8; 4086.4; 03-FEB-2010 17:42:41; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;41463
 9; 4310.0; 03-FEB-2010 17:46:25; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41463
10; 4809.3; 03-FEB-2010 17:54:44; Bright; 56.0; 59; 55Alp Oph ; 2.08; 8900;occ; 112; 0;41463
11; 4938.5; 03-FEB-2010 17:56:53; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41463
12; 5334.9; 03-FEB-2010 18:03:30; Dark ; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;41463
13; 5601.1; 03-FEB-2010 18:07:56; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;41463
14; 5692.6; 03-FEB-2010 18:09:27; Dark ; 46.5; 158; 6Pi Sco ; 2.91; 28000;occ; 93; 0;41463
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 19; 6658.0; 03-FEB-2010 18:25:33; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;41463
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 6; 3889.1; 03-FEB-2010 19:20:00; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;41464
 7; 4086.3; 03-FEB-2010 19:23:17; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;41464
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 9; 4809.6; 03-FEB-2010 19:35:20; Bright; 56.0; 59; 55Alp Oph ; 2.08; 8900;occ; 112; 0;41464
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 14; 6013.4; 03-FEB-2010 19:55:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41464
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 17; 6527.6; 03-FEB-2010 20:03:58; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;41464
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 19; 6757.2; 03-FEB-2010 20:07:48; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41464
 20; 6872.2; 03-FEB-2010 20:09:43; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;41464
 21; 6975.5; 03-FEB-2010 20:11:26; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41464

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 6; 218.5; 04-FEB-2010 01:01:13; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;41468
 7; 292.6; 04-FEB-2010 01:02:27; Dark ; 49.0; 10; Bet Cen ; 0.61; 28000;occ; 98; 0;41468
 8; 493.3; 04-FEB-2010 01:05:48; Dark ; 50.5; 12; Alp1Cru ; 0.77; 30000;occ; 101; 0;41468
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 10; 722.1; 04-FEB-2010 01:09:36; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;41468
 11; 837.8; 04-FEB-2010 01:11:32; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;41468
 12; 940.9; 04-FEB-2010 01:13:15; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;41468
 13; 1094.8; 04-FEB-2010 01:15:49; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;41468
 14; 1214.9; 04-FEB-2010 01:17:49; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;41468
 15; 1475.5; 04-FEB-2010 01:22:10; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;41468
 16; 1994.1; 04-FEB-2010 01:30:48; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;41468
 17; 2388.3; 04-FEB-2010 01:37:23; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;41468
 18; 3602.9; 04-FEB-2010 01:57:37; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41468
 19; 3888.6; 04-FEB-2010 02:02:23; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;41468
 20; 4086.1; 04-FEB-2010 02:05:40; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;41468
 21; 4810.7; 04-FEB-2010 02:17:45; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;41468
 22; 4940.0; 04-FEB-2010 02:19:54; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;41468

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 7; 292.8; 04-FEB-2010 02:43:03; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41469
 8; 493.8; 04-FEB-2010 02:46:24; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41469
 9; 625.8; 04-FEB-2010 02:48:36; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41469
 10; 722.7; 04-FEB-2010 02:50:13; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;41469
 11; 837.5; 04-FEB-2010 02:52:08; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;41469
 12; 941.0; 04-FEB-2010 02:53:51; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41469
 13; 1094.9; 04-FEB-2010 02:56:25; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;41469
 14; 1215.1; 04-FEB-2010 02:58:25; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;41469

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17; 2388.4; 04-FEB-2010 03:17:59; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;41469
18; 3428.4; 04-FEB-2010 03:35:19; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;41469
19; 3602.2; 04-FEB-2010 03:38:12; Bright; 19.5; 60; 7Bet UMi ; 2.08; 3950;occ; 39; 0;41469
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 3; -1950.0; 04-FEB-2010 03:46:16; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;41469
 4; -1725.4; 04-FEB-2010 03:50:01; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41469
 5; -1095.7; 04-FEB-2010 04:00:30; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;41469
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12; 838.0; 04-FEB-2010 04:32:44; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41470
13; 941.5; 04-FEB-2010 04:34:28; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41470
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16; 1994.2; 04-FEB-2010 04:52:00; Dark ; 47.5; 8; 10Alp CMI ; 0.40; 6500;occ; 95; 0;41470
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 4; -1095.2; 04-FEB-2010 05:41:07; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41470
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11; 723.4; 04-FEB-2010 06:11:26; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;41471
12; 838.0; 04-FEB-2010 06:13:20; Dark ; 46.0; 71; Iot Car ; 2.25; 7700;occ; 92; 0;41471
13; 941.5; 04-FEB-2010 06:15:04; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;41471
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 5; 943.8; 04-FEB-2010 21:20:29; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;41480
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 9; 3599.4; 04-FEB-2010 22:04:45; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41480
10; 3885.7; 04-FEB-2010 22:09:31; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;41480
11; 4085.3; 04-FEB-2010 22:12:51; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41480
12; 4814.7; 04-FEB-2010 22:25:00; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;41480
13; 4944.1; 04-FEB-2010 22:27:10; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41480
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 4; -69.3; 04-FEB-2010 22:44:12; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;41480
 5; 146.9; 04-FEB-2010 22:47:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41481
 6; 300.3; 04-FEB-2010 22:50:22; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;41481
 7; 634.9; 04-FEB-2010 22:55:56; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41481
 8; 943.9; 04-FEB-2010 23:01:05; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41481
 9; 1098.8; 04-FEB-2010 23:03:40; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;41481
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 9; 723.6; 04-FEB-2010 07:52:02; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41472
10; 838.7; 04-FEB-2010 07:53:57; Dark ; 46.0; 71; Iot Car ; 2.25; 7700;occ; 92; 0;41472
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 7; 635.4; 05-FEB-2010 00:36:33; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41482
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5; 924.5; 10-FEB-2010 14:49:15; Dark ; 37.0; 91; Kap Vel ; 2.49; 26000;occ; 74; 0;41562
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4; 3577.1; 10-FEB-2010 15:33:28; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41562
5; 3867.0; 10-FEB-2010 15:38:18; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;41562

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9; 4977.3; 10-FEB-2010 15:56:48; Bright; 43.5; 126; 60Bet Oph ; 2.77; 4250;occ; 87; 0;41562
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3; 3576.7; 10-FEB-2010 17:14:03; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41563
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6; 158.9; 11-FEB-2010 02:20:41; Dark ; 29.0; 109; Bet Lup ; 2.68; 26000;occ; 58; 0;41569
7; 212.2; 11-FEB-2010 02:21:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41569
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11; 929.7; 11-FEB-2010 22:40:43; Dark ; 39.0; 91; Kap Vel ; 2.49; 26000;occ; 78; 0;41581
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24; 4992.6; 13-FEB-2010 00:57:25; Bright; 46.5; 126; 60Bet Oph ; 2.77; 4250;occ; 93; 0;41596
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2; 365.9; 12-FEB-2010 10:15:31; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;41588
3; 556.0; 12-FEB-2010 10:18:41; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;41588
4; 642.5; 12-FEB-2010 10:20:07; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;41588
5; 931.7; 12-FEB-2010 10:24:56; Dark ; 36.5; 91; Kap Vel ; 2.49; 26000;occ; 73; 0;41588
6; 1130.6; 12-FEB-2010 10:28:15; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;41588
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2; 2005.0; 12-FEB-2010 10:42:50; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;41588
3; 2385.4; 12-FEB-2010 10:49:10; Bright; 39.5; 17; 78Bet Gem ; 1.16; 4500;occ; 79; 0;41588
4; 3430.0; 12-FEB-2010 11:06:35; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;41588
5; 3860.2; 12-FEB-2010 11:13:45; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;41588
6; 4078.7; 12-FEB-2010 11:17:23; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;41588
7; 4324.3; 12-FEB-2010 11:21:29; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;41588
8; 4734.6; 12-FEB-2010 11:28:19; Bright; 33.0; 168; 17Zet Aql ; 2.99; 11000;occ; 66; 0;41588
9; 4854.7; 12-FEB-2010 11:30:19; Bright; 45.5; 59; 55Alp Oph ; 2.08; 8900;occ; 91; 0;41588
10; 4988.6; 12-FEB-2010 11:32:33; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;41588
11; 5416.7; 12-FEB-2010 11:39:41; Dark ; 51.5; 86; 35Eta Oph ; 2.43; 10200;occ; 103; 0;41588
12; 5568.0; 12-FEB-2010 11:42:13; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;41588

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 14; 5767.1; 12-FEB-2010 11:45:32; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;41588
 15; 5875.2; 12-FEB-2010 11:47:20; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;41588
 16; 5963.6; 12-FEB-2010 11:48:48; Dark ; 49.5; 141; Bet Ara ; 2.84; 4600;occ; 99; 0;41588
 17; 6067.8; 12-FEB-2010 11:50:32; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;41588
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 19; 6402.5; 12-FEB-2010 11:56:07; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41588
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 22; 6967.9; 12-FEB-2010 12:05:33; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;41588
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 3; 2005.1; 12-FEB-2010 12:23:26; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;41589
 4; 2385.4; 12-FEB-2010 12:29:46; Bright; 39.0; 17; 78Bet Gem ; 1.16; 4500;occ; 78; 0;41589
 5; 3430.1; 12-FEB-2010 12:47:11; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;41589
 6; 3568.9; 12-FEB-2010 12:49:29; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;41589
 7; 3860.0; 12-FEB-2010 12:54:21; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;41589
 8; 4078.5; 12-FEB-2010 12:57:59; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41589
 9; 4324.4; 12-FEB-2010 13:02:05; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41589
 10; 4734.8; 12-FEB-2010 13:08:55; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41589
 11; 4854.9; 12-FEB-2010 13:10:55; Bright; 62.0; 59; 55Alp Oph ; 2.08; 8900;occ; 124; 0;41589
 12; 4989.6; 12-FEB-2010 13:13:10; Bright; 48.0; 126; 60Bet Oph ; 2.77; 4250;occ; 96; 0;41589
 13; 5417.5; 12-FEB-2010 13:20:18; Dark ; 50.5; 86; 35Eta Oph ; 2.43; 10200;occ; 101; 0;41589
 14; 5568.5; 12-FEB-2010 13:22:49; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;41589
 15; 5688.6; 12-FEB-2010 13:24:49; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41589
 16; 5767.7; 12-FEB-2010 13:26:08; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;41589
 17; 5875.2; 12-FEB-2010 13:27:56; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;41589
 18; 5963.8; 12-FEB-2010 13:29:24; Dark ; 37.5; 141; Bet Ara ; 2.84; 4600;occ; 75; 0;41589
 19; 6068.8; 12-FEB-2010 13:31:09; Dark ; 47.5; 131; Gam Lup ; 2.80; 26000;occ; 95; 0;41589
 20; 6263.9; 12-FEB-2010 13:34:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41589
 21; 6402.9; 12-FEB-2010 13:36:43; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;41589
 22; 6592.5; 12-FEB-2010 13:39:53; Dark ; 53.0; 12; Alp1Cru ; 0.77; 30000;occ; 106; 0;41589
 23; 6679.8; 12-FEB-2010 13:41:20; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41589
 24; 6968.1; 12-FEB-2010 13:46:09; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;41589
 25; 7167.2; 12-FEB-2010 13:49:28; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;41589
 26; 7532.8; 12-FEB-2010 13:55:33; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;41589

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 4; 2385.4; 12-FEB-2010 14:10:22; Bright; 39.0; 17; 78Bet Gem ; 1.16; 4500;occ; 78; 0;41590
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 7; 3859.8; 12-FEB-2010 14:34:56; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;41590
 8; 4078.4; 12-FEB-2010 14:38:35; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;41590
 9; 4324.7; 12-FEB-2010 14:42:41; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;41590
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 11; 4855.7; 12-FEB-2010 14:51:32; Bright; 45.5; 59; 55Alp Oph ; 2.08; 8900;occ; 91; 0;41590
 12; 4989.7; 12-FEB-2010 14:53:46; Bright; 46.0; 126; 60Bet Oph ; 2.77; 4250;occ; 92; 0;41590
 13; 5418.5; 12-FEB-2010 15:00:55; Dark ; 50.5; 86; 35Eta Oph ; 2.43; 10200;occ; 101; 0;41590
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 16; 5876.1; 12-FEB-2010 15:08:32; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;41590
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 18; 6069.7; 12-FEB-2010 15:11:46; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;41590
 19; 6264.8; 12-FEB-2010 15:15:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41590
 20; 6403.8; 12-FEB-2010 15:17:20; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;41590
 21; 6593.0; 12-FEB-2010 15:20:29; Dark ; 50.0; 12; Alp1Cru ; 0.77; 30000;occ; 100; 0;41590
 22; 6680.8; 12-FEB-2010 15:21:57; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;41590
 23; 6968.3; 12-FEB-2010 15:26:45; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;41590
 24; 7167.4; 12-FEB-2010 15:30:04; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;41590

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 3; 2005.3; 12-FEB-2010 15:44:38; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;41591

4; 2385.4; 12-FEB-2010 15:50:58; Bright; 38.5; 17; 78Bet Gem ; 1.16; 4500;occ; 77; 0;41591
5; 3568.2; 12-FEB-2010 16:10:41; Bright; 45.0; 60; 7Bet UMi ; 2.08; 3950;occ; 90; 0;41591
6; 3859.5; 12-FEB-2010 16:15:32; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;41591
7; 4078.6; 12-FEB-2010 16:19:11; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;41591
8; 4325.1; 12-FEB-2010 16:23:17; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;41591
9; 4735.1; 12-FEB-2010 16:30:07; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;41591
10; 4856.1; 12-FEB-2010 16:32:08; Bright; 46.5; 59; 55Alp Oph ; 2.08; 8900;occ; 93; 0;41591
11; 4990.4; 12-FEB-2010 16:34:23; Bright; 48.0; 126; 60Bet Oph ; 2.77; 4250;occ; 96; 0;41591
12; 5419.1; 12-FEB-2010 16:41:31; Dark ; 48.5; 86; 35Eta Oph ; 2.43; 10200;occ; 97; 0;41591
13; 5569.3; 12-FEB-2010 16:44:02; Dark ; 43.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 86; 0;41591
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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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20; 6681.7; 12-FEB-2010 17:02:34; Dark ; 49.5; 64; Gam Cen ; 2.20; 10600;occ; 99; 0;41591
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22; 7167.7; 12-FEB-2010 17:10:40; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;41591

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3; 2385.7; 12-FEB-2010 17:31:34; Bright; 39.0; 17; 78Bet Gem ; 1.16; 4500;occ; 78; 0;41592
4; 3430.1; 12-FEB-2010 17:48:58; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41592
5; 3568.0; 12-FEB-2010 17:51:16; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41592
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
8; 4324.8; 12-FEB-2010 18:03:53; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;41592
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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
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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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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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3; -69.5; 13-FEB-2010 01:13:38; Dark ; 48.5; 141; Bet Ara ; 2.84; 4600;occ; 97; 0;41596
4; 39.8; 13-FEB-2010 01:15:28; Dark ; 48.5; 131; Gam Lup ; 2.80; 26000;occ; 97; 0;41597
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7; 560.0; 13-FEB-2010 01:24:08; Dark ; 53.0; 12; Alp1Cru ; 0.77; 30000;occ; 106; 0;41597
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23; 7177.6; 15-FEB-2010 10:34:11; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;41630
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22; 6979.2; 15-FEB-2010 12:11:28; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;41631
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4; 407.3; 17-FEB-2010 02:36:18; Dark ; 51.5; 10; Bet Cen ; 0.61; 28000;occ; 103; 0;41655
5; 492.3; 17-FEB-2010 02:37:43; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41655
6; 588.9; 17-FEB-2010 02:39:20; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;41655
7; 694.4; 17-FEB-2010 02:41:05; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;41655
8; 932.7; 17-FEB-2010 02:45:04; Dark ; 48.5; 113; Mu Vel ; 2.69; 5000;occ; 97; 0;41655
9; 1740.3; 17-FEB-2010 02:58:31; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;41655
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2; -1964.7; 17-FEB-2010 03:37:22; Bright; 50.0; 130; 23Bet Dra ; 2.80; 5800;occ; 100; 0;41655
3; -1705.3; 17-FEB-2010 03:41:42; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41655
4; -1012.3; 17-FEB-2010 03:53:14; Dark ; 49.0; 126; 60Bet Oph ; 2.77; 4250;occ; 98; 0;41655
5; -309.8; 17-FEB-2010 04:04:57; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;41655
6; 64.1; 17-FEB-2010 04:11:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41656
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8; 407.9; 17-FEB-2010 04:16:55; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41656
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3; -1011.8; 17-FEB-2010 05:33:51; Dark ; 50.5; 126; 60Bet Oph ; 2.77; 4250;occ; 101; 0;41656
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5; 64.6; 17-FEB-2010 05:51:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
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12; 4069.6; 17-FEB-2010 23:44:32; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41667
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8; 494.3; 17-FEB-2010 07:39:33; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41658
9; 590.2; 17-FEB-2010 07:41:09; Dark ; 48.0; 12; Alp1Cru ; 0.77; 30000;occ; 96; 0;41658
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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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6; 5727.9; 17-FEB-2010 09:06:47; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 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
9; 6445.7; 17-FEB-2010 09:18:44; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41658
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11; 6626.3; 17-FEB-2010 09:21:45; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;41658
12; 6733.2; 17-FEB-2010 09:23:32; Dark ; 48.5; 64; Gam Cen ; 2.20; 10600;occ; 97; 0;41658
13; 6970.4; 17-FEB-2010 09:27:29; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 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
6; 5728.4; 17-FEB-2010 10:47:23; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;41659
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
11; 6626.8; 17-FEB-2010 11:02:21; Dark ; 46.5; 12; Alp1Cru ; 0.77; 30000;occ; 93; 0;41659
12; 6734.1; 17-FEB-2010 11:04:09; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 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
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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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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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3; 4070.3; 17-FEB-2010 18:42:45; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;41664
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9; 6370.3; 17-FEB-2010 19:21:05; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;41664
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13; 6737.8; 17-FEB-2010 19:27:12; Dark ; 51.0; 64; Gam Cen ; 2.20; 10600;occ; 102; 0;41664
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13; 6629.9; 17-FEB-2010 21:06:00; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41665
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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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4; -1004.2; 18-FEB-2010 03:21:46; Dark ; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;41669
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7; 70.7; 18-FEB-2010 03:39:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
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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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7; 601.1; 18-FEB-2010 22:15:06; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;41681
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5; 423.9; 18-FEB-2010 23:52:45; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;41682
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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; 4332.3; 18-FEB-2010 09:52:30; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41673
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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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 4; 4333.7; 19-FEB-2010 14:22:42; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;41690
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 7; 5835.5; 19-FEB-2010 14:47:44; Dark ; 56.5; 75; 26Eps Sco ; 2.29; 4250;occ; 113; 0;41690
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 9; 6386.1; 19-FEB-2010 14:56:55; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41690
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 11; 6555.6; 19-FEB-2010 14:59:44; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41690
 12; 6757.0; 19-FEB-2010 15:03:06; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41690
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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
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 7; 5836.4; 19-FEB-2010 16:28:21; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;41691
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 9; 6244.5; 19-FEB-2010 16:35:09; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;41691
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 12; 6642.3; 19-FEB-2010 16:41:47; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;41691
 13; 6757.9; 19-FEB-2010 16:43:42; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41691
 14; 6984.8; 19-FEB-2010 16:47:29; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;41691
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 3; 3431.7; 19-FEB-2010 17:28:52; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;41692
 4; 3537.4; 19-FEB-2010 17:30:38; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41692
 5; 4065.9; 19-FEB-2010 17:39:26; Bright; 46.0; 130; 23Bet Dra ; 2.80; 5800;occ; 92; 0;41692
 6; 4199.9; 19-FEB-2010 17:41:41; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;41692
 7; 4333.7; 19-FEB-2010 17:43:54; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41692
 8; 4758.5; 19-FEB-2010 17:50:59; Bright; 54.0; 168; 17Zet Aql ; 2.99; 11000;occ; 108; 0;41692
 9; 5334.4; 19-FEB-2010 18:00:35; Dark ; 42.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 84; 0;41692
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 12; 5837.4; 19-FEB-2010 18:08:58; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;41692
 13; 6007.2; 19-FEB-2010 18:11:48; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;41692
 14; 6119.0; 19-FEB-2010 18:13:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41692
 15; 6387.1; 19-FEB-2010 18:18:08; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;41692
 16; 6466.8; 19-FEB-2010 18:19:27; Dark ; 47.5; 10; Bet Cen ; 0.61; 28000;occ; 95; 0;41692
 17; 6643.0; 19-FEB-2010 18:22:24; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;41692
 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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 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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 9; 5436.4; 19-FEB-2010 19:42:53; Dark ; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;41693
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 13; 6119.5; 19-FEB-2010 19:54:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41693
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 15; 6467.3; 19-FEB-2010 20:00:04; Dark ; 51.5; 10; Bet Cen ; 0.61; 28000;occ; 103; 0;41693
 16; 6643.2; 19-FEB-2010 20:03:00; Dark ; 54.0; 12; Alp1Cru ; 0.77; 30000;occ; 108; 0;41693
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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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3; 3532.9; 20-FEB-2010 16:58:56; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41706
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24; 8368.7; 26-FEB-2010 03:25:39; Bright; 43.0; 166; 17Eps Leo ; 2.98; 6000;occ; 86; 0;41783
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