

# GOMOS Daily Report 06-FEB-2010

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

## [Level 2 products](#)

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

Item	Value
Time of report generation	08FEB2010 04:32:40
Data source version	GOMOS/5.00L04
Start time of products	06FEB2010 00:02:22
Stop time of products	06FEB2010 21:51:44
Store outputs in DB	Yes
Nb of level 1b prods	57
Nb of prods with errors	2

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

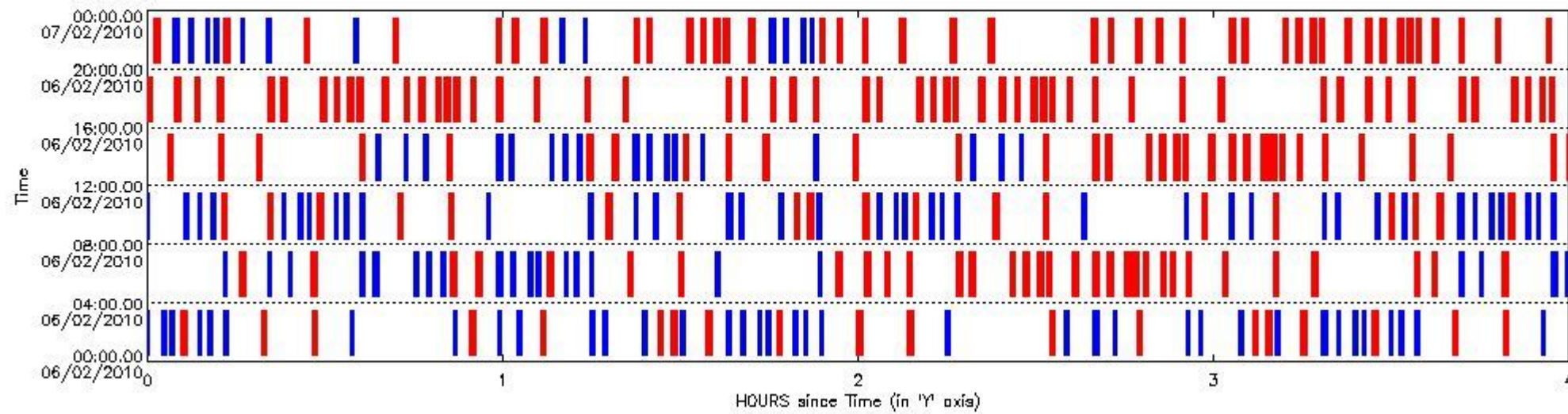
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
06-FEB-2010 00:05:37	TheCar	124	41496
06-FEB-2010 00:19:07	15RhoPup	132	41496
06-FEB-2010 00:27:42	10AlpCMi	8	41496
06-FEB-2010 00:54:22	7BetUMi	60	41496
06-FEB-2010 01:06:21	3AlpLyr	5	41496
06-FEB-2010 01:26:03	10Gam2Sgr	167	41496
06-FEB-2010 01:28:14	21AlpSco	16	41496
06-FEB-2010 01:34:08	GamLup	131	41496
06-FEB-2010 01:46:13	TheCar	124	41497
06-FEB-2010 01:59:43	15RhoPup	132	41497
06-FEB-2010 02:08:18	10AlpCMi	8	41497
06-FEB-2010 02:32:11	1AlpUMi	49	41497
06-FEB-2010 02:46:57	3AlpLyr	5	41497
06-FEB-2010 03:06:40	10Gam2Sgr	167	41497
06-FEB-2010 03:08:50	21AlpSco	16	41497

06-FEB-2010 03:14:44	GamLup	131	41497
06-FEB-2010 03:26:49	TheCar	124	41498
06-FEB-2010 03:40:19	15RhoPup	132	41498
06-FEB-2010 03:48:54	10AlpCMi	8	41498
06-FEB-2010 04:15:33	7BetUMi	60	41498
06-FEB-2010 04:27:33	3AlpLyr	5	41498
06-FEB-2010 04:51:09	TheSco	40	41498
06-FEB-2010 04:55:21	GamLup	131	41498
06-FEB-2010 05:07:26	TheCar	124	41499
06-FEB-2010 05:20:55	15RhoPup	132	41499
06-FEB-2010 05:29:30	10AlpCMi	8	41499
06-FEB-2010 05:56:09	7BetUMi	60	41499
06-FEB-2010 06:00:57	14EtaDra	119	41499
06-FEB-2010 06:04:19	23BetDra	130	41499
06-FEB-2010 06:08:09	3AlpLyr	5	41499
06-FEB-2010 06:16:36	55AlpOph	59	41499
06-FEB-2010 06:18:46	60BetOph	126	41499
06-FEB-2010 06:25:30	35EtaOph	86	41499
06-FEB-2010 06:27:52	10Gam2Sgr	167	41499
06-FEB-2010 06:30:04	21AlpSco	16	41499
06-FEB-2010 06:31:45	TheSco	40	41499
06-FEB-2010 06:35:58	GamLup	131	41499
06-FEB-2010 06:39:31	DSA1027	0	41500
06-FEB-2010 06:42:02	BetCen	10	41500
06-FEB-2010 06:44:55	BetCru	20	41500
06-FEB-2010 06:46:20	GamCen	64	41500
06-FEB-2010 06:48:02	TheCar	124	41500
06-FEB-2010 06:50:57	lotCar	71	41500
06-FEB-2010 06:52:40	DeIVel	46	41500
06-FEB-2010 06:55:16	LamVel	65	41500
06-FEB-2010 07:01:31	15RhoPup	132	41500
06-FEB-2010 07:10:06	10AlpCMi	8	41500
06-FEB-2010 07:16:37	78BetGem	17	41500
06-FEB-2010 07:33:59	1AlpUMi	49	41500
06-FEB-2010 07:36:45	7BetUMi	60	41500
06-FEB-2010 07:48:45	3AlpLyr	5	41500
06-FEB-2010 08:12:21	TheSco	40	41500
06-FEB-2010 08:20:08	DSA1027	0	41501
06-FEB-2010 08:28:38	TheCar	124	41501
06-FEB-2010 08:42:08	15RhoPup	132	41501
06-FEB-2010 08:50:42	10AlpCMi	8	41501
06-FEB-2010 09:17:20	7BetUMi	60	41501
06-FEB-2010 09:29:21	3AlpLyr	5	41501
06-FEB-2010 09:49:05	10Gam2Sgr	167	41501
06-FEB-2010 09:51:17	21AlpSco	16	41501
06-FEB-2010 10:00:45	DSA1027	0	41502
06-FEB-2010 10:09:15	TheCar	124	41502
06-FEB-2010 10:22:44	15RhoPup	132	41502
06-FEB-2010 10:31:18	10AlpCMi	8	41502
06-FEB-2010 10:57:56	7BetUMi	60	41502
06-FEB-2010 11:09:57	3AlpLyr	5	41502
06-FEB-2010 11:29:41	10Gam2Sgr	167	41502
06-FEB-2010 11:33:34	TheSco	40	41502
06-FEB-2010 11:37:48	GamLup	131	41502
06-FEB-2010 11:49:51	TheCar	124	41503
06-FEB-2010 12:03:20	15RhoPup	132	41503
06-FEB-2010 12:11:54	10AlpCMi	8	41503
06-FEB-2010 12:18:24	78BetGem	17	41503
06-FEB-2010 12:35:47	1AlpUMi	49	41503

06-FEB-2010 12:50:33	3AlpLyr	5	41503
06-FEB-2010 13:14:10	TheSco	40	41503
06-FEB-2010 13:18:25	GamLup	131	41503
06-FEB-2010 13:30:27	TheCar	124	41504
06-FEB-2010 13:37:40	LamVel	65	41504
06-FEB-2010 13:43:56	15RhoPup	132	41504
06-FEB-2010 13:59:00	78BetGem	17	41504
06-FEB-2010 14:16:23	1AlpUMi	49	41504
06-FEB-2010 14:31:09	3AlpLyr	5	41504
06-FEB-2010 14:39:37	55AlpOph	59	41504
06-FEB-2010 14:41:47	60BetOph	126	41504
06-FEB-2010 14:48:33	35EtaOph	86	41504
06-FEB-2010 14:50:53	10Gam2Sgr	167	41504
06-FEB-2010 14:53:08	21AlpSco	16	41504
06-FEB-2010 14:54:46	TheSco	40	41504
06-FEB-2010 14:59:02	GamLup	131	41504
06-FEB-2010 15:02:35	DSA1027	0	41505
06-FEB-2010 15:05:05	BetCen	10	41505
06-FEB-2010 15:07:58	BetCru	20	41505
06-FEB-2010 15:09:24	GamCen	64	41505
06-FEB-2010 15:11:04	TheCar	124	41505
06-FEB-2010 15:13:59	lotCar	71	41505
06-FEB-2010 15:18:17	LamVel	65	41505
06-FEB-2010 15:24:32	15RhoPup	132	41505
06-FEB-2010 15:33:06	10AlpCMi	8	41505
06-FEB-2010 15:39:36	78BetGem	17	41505
06-FEB-2010 15:56:59	1AlpUMi	49	41505
06-FEB-2010 15:59:43	7BetUMi	60	41505
06-FEB-2010 16:04:31	14EtaDra	119	41505
06-FEB-2010 16:07:55	23BetDra	130	41505
06-FEB-2010 16:11:45	3AlpLyr	5	41505
06-FEB-2010 16:20:13	55AlpOph	59	41505
06-FEB-2010 16:22:24	60BetOph	126	41505
06-FEB-2010 16:29:09	35EtaOph	86	41505
06-FEB-2010 16:31:30	10Gam2Sgr	167	41505
06-FEB-2010 16:33:45	21AlpSco	16	41505
06-FEB-2010 16:35:23	TheSco	40	41505
06-FEB-2010 16:39:39	GamLup	131	41505
06-FEB-2010 16:43:11	DSA1027	0	41506
06-FEB-2010 16:45:42	BetCen	10	41506
06-FEB-2010 16:48:34	BetCru	20	41506
06-FEB-2010 16:50:00	GamCen	64	41506
06-FEB-2010 16:51:40	TheCar	124	41506
06-FEB-2010 16:54:35	lotCar	71	41506
06-FEB-2010 16:58:53	LamVel	65	41506
06-FEB-2010 17:05:08	15RhoPup	132	41506
06-FEB-2010 17:13:42	10AlpCMi	8	41506
06-FEB-2010 17:20:12	78BetGem	17	41506
06-FEB-2010 17:37:35	1AlpUMi	49	41506
06-FEB-2010 17:40:18	7BetUMi	60	41506
06-FEB-2010 17:45:07	14EtaDra	119	41506
06-FEB-2010 17:48:31	23BetDra	130	41506
06-FEB-2010 17:52:22	3AlpLyr	5	41506
06-FEB-2010 18:00:49	55AlpOph	59	41506
06-FEB-2010 18:03:00	60BetOph	126	41506
06-FEB-2010 18:09:46	35EtaOph	86	41506
06-FEB-2010 18:12:06	10Gam2Sgr	167	41506
06-FEB-2010 18:14:21	21AlpSco	16	41506
06-FEB-2010 18:15:59	TheSco	40	41506

06-FEB-2010 18:20:16	GamLup	131	41506
06-FEB-2010 18:23:48	DSA1027	0	41507
06-FEB-2010 18:26:18	BetCen	10	41507
06-FEB-2010 18:29:11	BetCru	20	41507
06-FEB-2010 18:30:37	GamCen	64	41507
06-FEB-2010 18:32:16	TheCar	124	41507
06-FEB-2010 18:35:11	lotCar	71	41507
06-FEB-2010 18:39:29	LamVel	65	41507
06-FEB-2010 18:45:44	15RhoPup	132	41507
06-FEB-2010 18:54:18	10AlpCMi	8	41507
06-FEB-2010 19:00:48	78BetGem	17	41507
06-FEB-2010 19:18:11	1AlpUMi	49	41507
06-FEB-2010 19:20:54	7BetUMi	60	41507
06-FEB-2010 19:25:42	14EtaDra	119	41507
06-FEB-2010 19:29:06	23BetDra	130	41507
06-FEB-2010 19:32:58	3AlpLyr	5	41507
06-FEB-2010 19:41:26	55AlpOph	59	41507
06-FEB-2010 19:43:36	60BetOph	126	41507
06-FEB-2010 19:50:22	35EtaOph	86	41507
06-FEB-2010 19:52:42	10Gam2Sgr	167	41507
06-FEB-2010 19:54:58	21AlpSco	16	41507
06-FEB-2010 19:56:35	TheSco	40	41507
06-FEB-2010 20:00:53	GamLup	131	41507
06-FEB-2010 20:12:53	TheCar	124	41508
06-FEB-2010 20:26:20	15RhoPup	132	41508
06-FEB-2010 20:41:24	78BetGem	17	41508
06-FEB-2010 20:58:47	1AlpUMi	49	41508
06-FEB-2010 21:01:30	7BetUMi	60	41508
06-FEB-2010 21:06:18	14EtaDra	119	41508
06-FEB-2010 21:22:02	55AlpOph	59	41508
06-FEB-2010 21:24:13	60BetOph	126	41508
06-FEB-2010 21:30:59	35EtaOph	86	41508
06-FEB-2010 21:33:18	10Gam2Sgr	167	41508
06-FEB-2010 21:35:35	21AlpSco	16	41508
06-FEB-2010 21:37:12	TheSco	40	41508
06-FEB-2010 21:41:29	GamLup	131	41508
06-FEB-2010 21:53:29	TheCar	124	41509
06-FEB-2010 21:56:23	lotCar	71	41509
06-FEB-2010 22:00:42	LamVel	65	41509
06-FEB-2010 22:06:56	15RhoPup	132	41509
06-FEB-2010 22:15:30	10AlpCMi	8	41509
06-FEB-2010 22:22:00	78BetGem	17	41509
06-FEB-2010 22:39:23	1AlpUMi	49	41509
06-FEB-2010 22:42:05	7BetUMi	60	41509
06-FEB-2010 22:46:54	14EtaDra	119	41509
06-FEB-2010 22:50:18	23BetDra	130	41509
06-FEB-2010 22:54:10	3AlpLyr	5	41509
06-FEB-2010 23:02:38	55AlpOph	59	41509
06-FEB-2010 23:04:49	60BetOph	126	41509
06-FEB-2010 23:11:36	35EtaOph	86	41509
06-FEB-2010 23:13:55	10Gam2Sgr	167	41509
06-FEB-2010 23:16:12	21AlpSco	16	41509
06-FEB-2010 23:17:48	TheSco	40	41509
06-FEB-2010 23:22:06	GamLup	131	41509
06-FEB-2010 23:25:38	DSA1027	0	41510
06-FEB-2010 23:28:08	BetCen	10	41510
06-FEB-2010 23:31:00	BetCru	20	41510
06-FEB-2010 23:32:27	GamCen	64	41510
06-FEB-2010 23:34:05	TheCar	124	41510



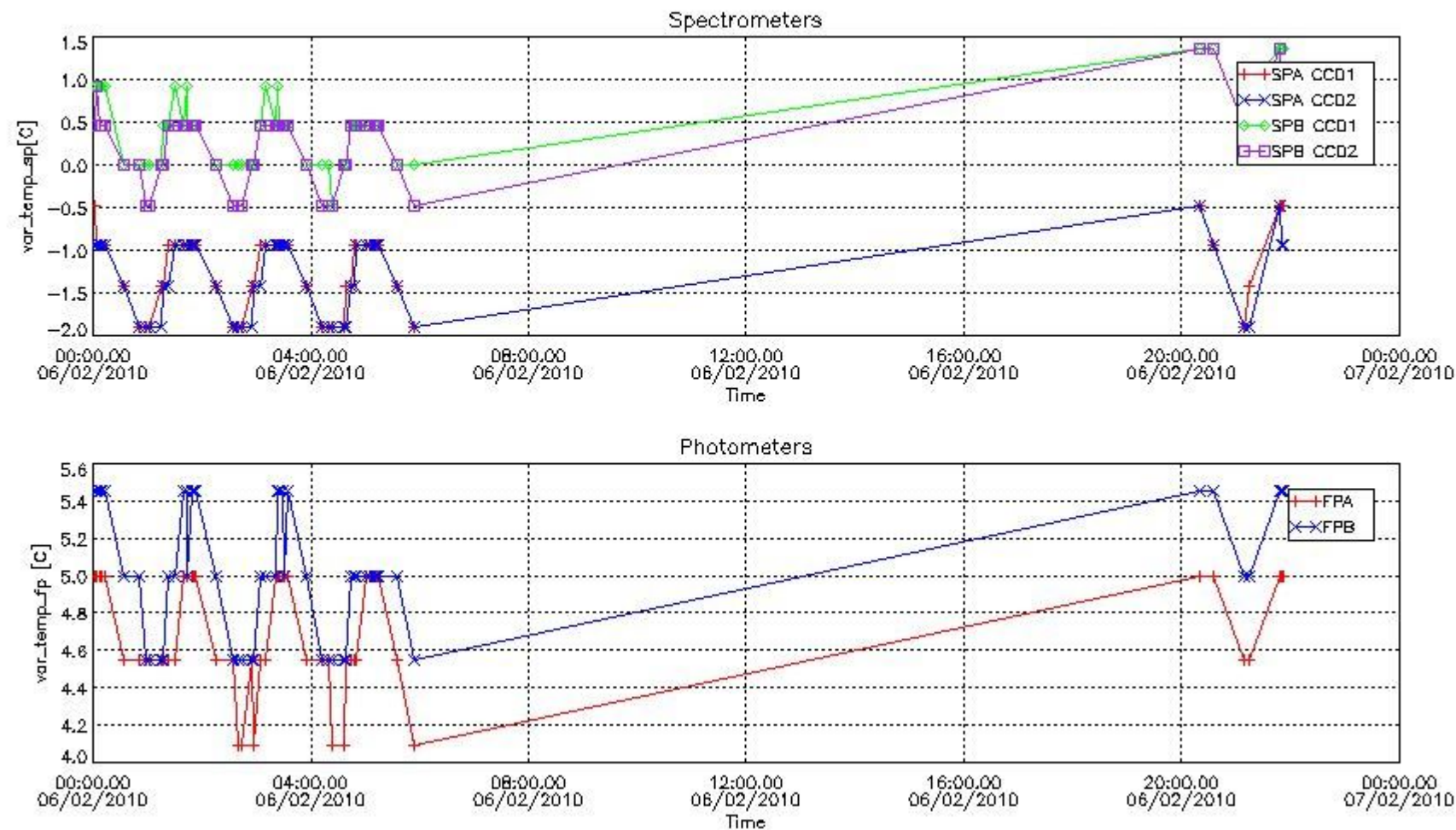
06-FEB-2010 23:37:00	lotCar	71	41510
06-FEB-2010 23:41:18	LamVel	65	41510
06-FEB-2010 23:47:33	15RhoPup	132	41510
06-FEB-2010 23:56:06	10AlpCMi	8	41510

## 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_1PNPDE20100206_000222_000000492086_00360_41496_8981.N1	06-FEB-2010 00:02:22	Dark	49.000	20	Bet Cru	1.2530	30000.	98	41496	No
2	GOM_TRA_1PNPDE20100206_000346_000000462086_00360_41496_8982.N1	06-FEB-2010 00:03:46	Dark	46.000	64	Gam Cen	2.2000	10600.	92	41496	No
3	GOM_TRA_1PNPDE20100206_000826_000000412086_00360_41496_8983.N1	06-FEB-2010 00:08:26	Dark	40.500	71	lot Car	2.2460	7700.0	81	41496	No
4	GOM_TRA_1PNPDE20100206_001008_000000412086_00360_41496_8984.N1	06-FEB-2010 00:10:08	Dark	40.500	46	Del Vel	1.9540	10600.	81	41496	No
5	GOM_TRA_1PNPDE20100206_001244_000000452086_00360_41496_8985.N1	06-FEB-2010 00:12:44	Straylight	45.000	65	Lam Vel	2.2040	4400.0	90	41496	No
6	GOM_TRA_1PNPDE20100206_003407_000000392086_00360_41496_8986.N1	06-FEB-2010 00:34:07	Bright	39.000	17	78Bet Gem	1.1610	4500.0	78	41496	No
7	GOM_TRA_1PNPDE20100206_005129_000000382086_00360_41496_8987.N1	06-FEB-2010 00:51:29	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	41496	No
8	GOM_TRA_1PNPDE20100206_005903_000000412086_00360_41496_8988.N1	06-FEB-2010 00:59:03	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	41496	No
9	GOM_TRA_1PNPDE20100206_010225_000000412086_00360_41496_8989.N1	06-FEB-2010 01:02:25	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	41496	No
10	GOM_TRA_1PNPDE20100206_011440_000000412086_00360_41496_8990.N1	06-FEB-2010 01:14:40	Bright	41.000	59	55Alp Oph	2.0800	8900.0	82	41496	No
11	GOM_TRA_1PNPDE20100206_011651_000000402086_00360_41496_8991.N1	06-FEB-2010 01:16:51	Bright	39.500	126	60Bet Oph	2.7700	4250.0	79	41496	No
12	GOM_TRA_1PNPDE20100206_012334_000000442086_00360_41496_8996.N1	06-FEB-2010 01:23:34	Twilight	44.000	86	35Eta Oph	2.4300	10200.	88	41496	No
13	GOM_TRA_1PNPDE20100206_012949_000000482086_00360_41496_8997.N1	06-FEB-2010 01:29:49	Dark	47.500	40	The Sco	1.8590	7100.0	95	41496	No
14	GOM_TRA_1PNPDE20100206_014006_000000452086_00361_41497_8998.N1	06-FEB-2010 01:40:06	Dark	45.000	10	Bet Cen	0.61000	28000.	90	41497	No
15	GOM_TRA_1PNPDE20100206_014259_000000422086_00361_41497_8999.N1	06-FEB-2010 01:42:59	Dark	41.500	20	Bet Cru	1.2530	30000.	83	41497	No
16	GOM_TRA_1PNPDE20100206_014422_000000492086_00361_41497_9000.N1	06-FEB-2010 01:44:22	Dark	48.500	64	Gam Cen	2.2000	10600.	97	41497	No
17	GOM_TRA_1PNPDE20100206_014902_000000422086_00361_41497_9001.N1	06-FEB-2010 01:49:02	Dark	42.000	71	lot Car	2.2460	7700.0	84	41497	No
18	GOM_TRA_1PNPDE20100206_015045_000000402086_00361_41497_9002.N1	06-FEB-2010 01:50:45	Dark	40.000	46	Del Vel	1.9540	10600.	80	41497	No
19	GOM_TRA_1PNPDE20100206_015320_000000472086_00361_41497_9003.N1	06-FEB-2010 01:53:20	Straylight	47.000	65	Lam Vel	2.2040	4400.0	94	41497	No
20	GOM_TRA_1PNPDE20100206_021442_000000412086_00361_41497_9004.N1	06-FEB-2010 02:14:42	Bright	41.000	17	78Bet Gem	1.1610	4500.0	82	41497	No
21	GOM_TRA_1PNPDE20100206_023451_000000422086_00361_41497_9005.N1	06-FEB-2010 02:34:51	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	41497	No
22	GOM_TRA_1PNPDE20100206_023938_000000592086_00361_41497_9018.N1	06-FEB-2010 02:39:38	Bright	59.000	119	14Eta Dra	2.7270	4700.0	118	41497	No
23	GOM_TRA_1PNPDE20100206_024301_000000402086_00361_41497_9019.N1	06-FEB-2010 02:43:01	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	41497	No
24	GOM_TRA_1PNPDE20100206_025517_000000412086_00361_41497_9020.N1	06-FEB-2010 02:55:17	Bright	41.000	59	55Alp Oph	2.0800	8900.0	82	41497	No
25	GOM_TRA_1PNPDE20100206_025727_000000412086_00361_41497_9021.N1	06-FEB-2010 02:57:27	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	41497	No
26	GOM_TRA_1PNPDE20100206_030411_000000482086_00361_41497_9022.N1	06-FEB-2010 03:04:11	Twilight	48.000	86	35Eta Oph	2.4300	10200.	96	41497	No
27	GOM_TRA_1PNPDE20100206_031026_000000442086_00361_41497_9023.N1	06-FEB-2010 03:10:26	Dark	44.000	40	The Sco	1.8590	7100.0	88	41497	No
28	GOM_TRA_1PNPDE20100206_032043_000000422086_00362_41498_9024.N1	06-FEB-2010 03:20:43	Dark	41.500	10	Bet Cen	0.61000	28000.	83	41498	No
29	GOM_TRA_1PNPDE20100206_032335_000000462086_00362_41498_9025.N1	06-FEB-2010 03:23:35	Dark	45.500	20	Bet Cru	1.2530	30000.	91	41498	No
30	GOM_TRA_1PNPDE20100206_032459_000000472086_00362_41498_9026.N1	06-FEB-2010 03:24:59	Dark	46.500	64	Gam Cen	2.2000	10600.	93	41498	No
31	GOM_TRA_1PNPDE20100206_032938_000000382086_00362_41498_9027.N1	06-FEB-2010 03:29:38	Dark	37.500	71	lot Car	2.2460	7700.0	75	41498	No
32	GOM_TRA_1PNPDE20100206_033121_000000442086_00362_41498_9028.N1	06-FEB-2010 03:31:21	Dark	44.000	46	Del Vel	1.9540	10600.	88	41498	No
33	GOM_TRA_1PNPDE20100206_033357_000000462086_00362_41498_9029.N1	06-FEB-2010 03:33:57	Straylight	46.000	65	Lam Vel	2.2040	4400.0	92	41498	No
34	GOM_TRA_1PNPDE20100206_035518_000000422086_00362_41498_9030.N1	06-FEB-2010 03:55:18	Bright	41.500	17	78Bet Gem	1.1610	4500.0	83	41498	No
35	GOM_TRA_1PNPDE20100206_041241_000000322086_00362_41498_9031.N1	06-FEB-2010 04:12:41	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	41498	No
36	GOM_TRA_1PNPDE20100206_042014_000000382086_00362_41498_9043.N1	06-FEB-2010 04:20:14	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	41498	No
37	GOM_TRA_1PNPDE20100206_042337_000000432086_00362_41498_9044.N1	06-FEB-2010 04:23:37	Bright	42.500	130	23Bet Dra	2.7990	5800.0	85	41498	No
38	GOM_TRA_1PNPDE20100206_043553_000000422086_00362_41498_9045.N1	06-FEB-2010 04:35:53	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	41498	No
39	GOM_TRA_1PNPDE20100206_043803_000000552086_00362_41498_9046.N1	06-FEB-2010 04:38:03	Bright	55.000	126	60Bet Oph	2.7700	4250.0	110	41498	No
40	GOM_TRA_1PNPDE20100206_044447_000000482086_00362_41498_9047.N1	06-FEB-2010 04:44:47	Twilight	47.500	86	35Eta Oph	2.4300	10200.	95	41498	No
41	GOM_TRA_1PNPDE20100206_044709_000000432086_00362_41498_9048.N1	06-FEB-2010 04:47:09	Twilight	43.000	167	10Gam2Sgr	2.9840	4500.0	86	41498	No
42	GOM_TRA_1PNPDE20100206_044920_000000512086_00362_41498_9049.N1	06-FEB-2010 04:49:20	Dark	50.500	16	21Alp Sco	1.0200	3000.0	101	41498	No
43	GOM_TRA_1PNPDE20100206_050119_000000412086_00363_41499_9050.N1	06-FEB-2010 05:01:19	Dark	41.000	10	Bet Cen	0.61000	28000.	82	41499	No
44	GOM_TRA_1PNPDE20100206_050412_000000412086_00363_41499_9051.N1	06-FEB-2010 05:04:12	Dark	41.000	20	Bet Cru	1.2530	30000.	82	41499	No
45	GOM_TRA_1PNPDE20100206_050536_000000512086_00363_41499_9052.N1	06-FEB-2010 05:05:36	Dark	50.500	64	Gam Cen	2.2000	10600.	101	41499	No
46	GOM_TRA_1PNPDE20100206_051015_000000452086_00363_41499_9053.N1	06-FEB-2010 05:10:15	Dark	45.000	71	lot Car	2.2460	7700.0	90	41499	No
47	GOM_TRA_1PNPDE20100206_051157_000000452086_00363_41499_9054.N1	06-FEB-2010 05:11:57	Dark	44.500	46	Del Vel	1.9540	10600.	89	41499	No
48	GOM_TRA_1PNPDE20100206_051433_000000462086_00363_41499_9055.N1	06-FEB-2010 05:14:33	Straylight	45.500	65	Lam Vel	2.2040	4400.0	91	41499	No
49	GOM_TRA_1PNPDE20100206_053554_000000412086_00363_41499_9056.N1	06-FEB-2010 05:35:54	Bright	40.500	17	78Bet Gem	1.1610	4500.0	81	41499	No
50	GOM_TRA_1PNPDE20100206_055317_000000352086_00363_41499_9057.N1	06-FEB-2010 05:53:17	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	41499	No

51	GOM_TRA_1PNPDE20100206_201958_000000462086_00372_41508_9147.N1	06-FEB-2010 20:19:58	Straylight	45.500	65	Lam Vel	2.2040	4400.0	91	41508	No
52	GOM_TRA_1PNPDE20100206_203448_000000492086_00372_41508_9148.N1	06-FEB-2010 20:34:48	Twilight_stray	49.000	8	10Alp CMi	0.40000	6500.0	98	41508	No
53	GOM_TRA_1PNPDE20100206_210936_000000412086_00372_41508_9149.N1	06-FEB-2010 21:09:36	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	41508	No
54	GOM_TRA_1PNPDE20100206_211327_000000372086_00372_41508_9150.N1	06-FEB-2010 21:13:27	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	41508	No
55	GOM_TRA_1PNPDE20100206_214725_000000412086_00373_41509_9171.N1	06-FEB-2010 21:47:25	Dark	41.000	10	Bet Cen	0.61000	28000.	82	41509	No
56	GOM_TRA_1PNPDE20100206_215017_000000412086_00373_41509_9207.N1	06-FEB-2010 21:50:17	Dark	40.500	20	Bet Cru	1.2530	30000.	81	41509	Yes
57	GOM_TRA_1PNPDE20100206_215144_000000362086_00373_41509_9232.N1	06-FEB-2010 21:51:44	Dark	36.000	64	Gam Cen	2.2000	10600.	72	41509	Yes

### 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.

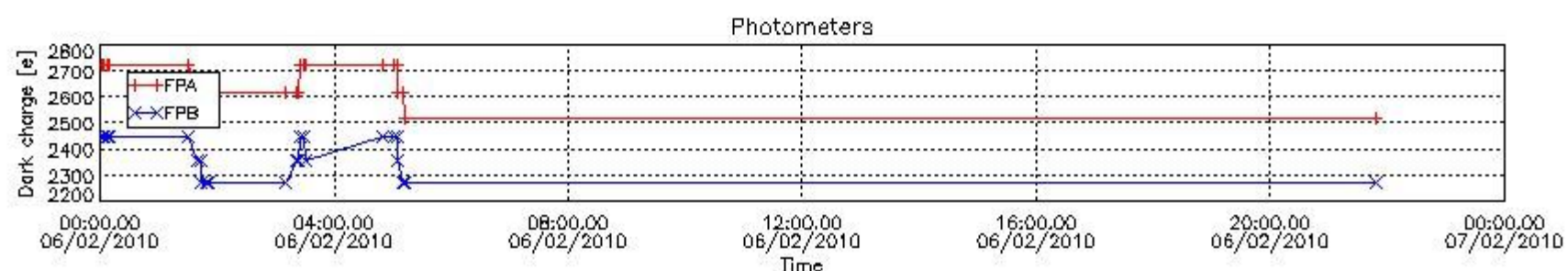
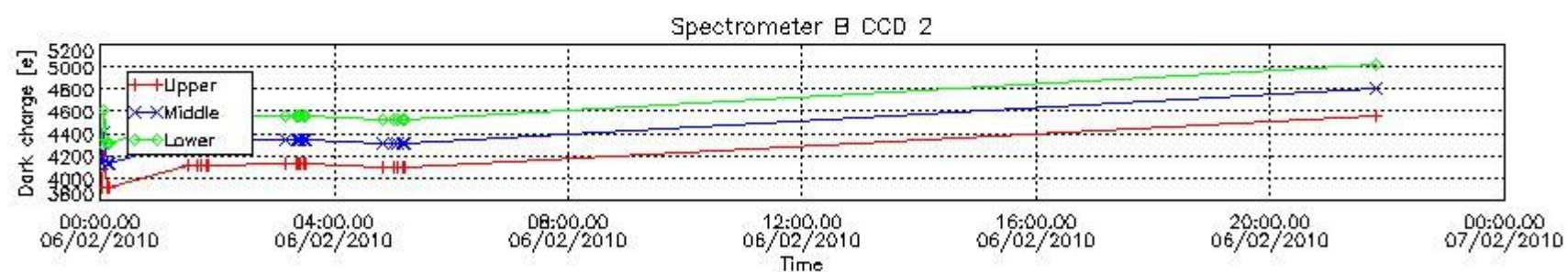
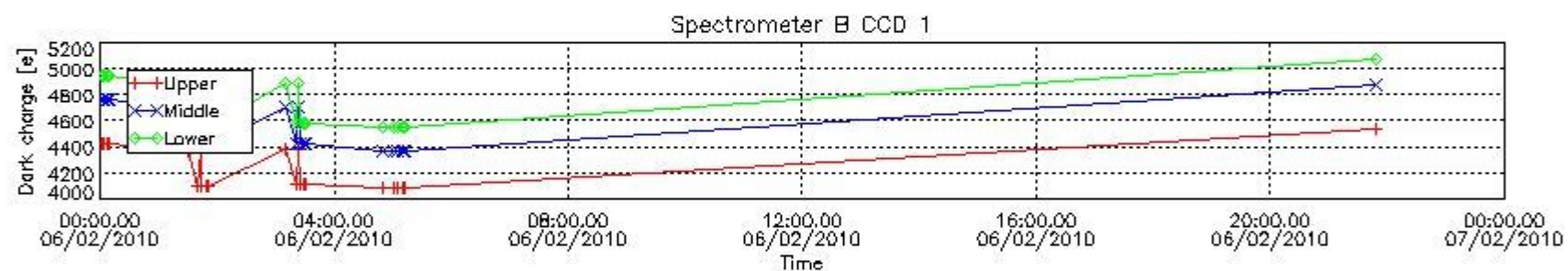
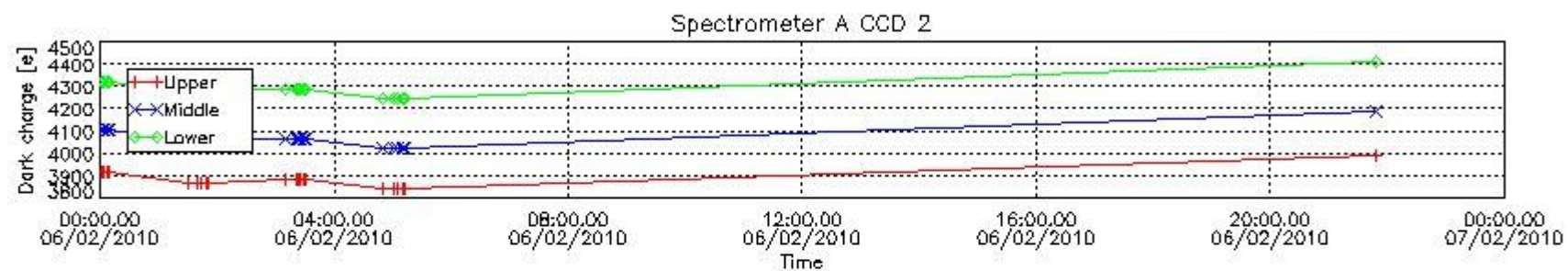
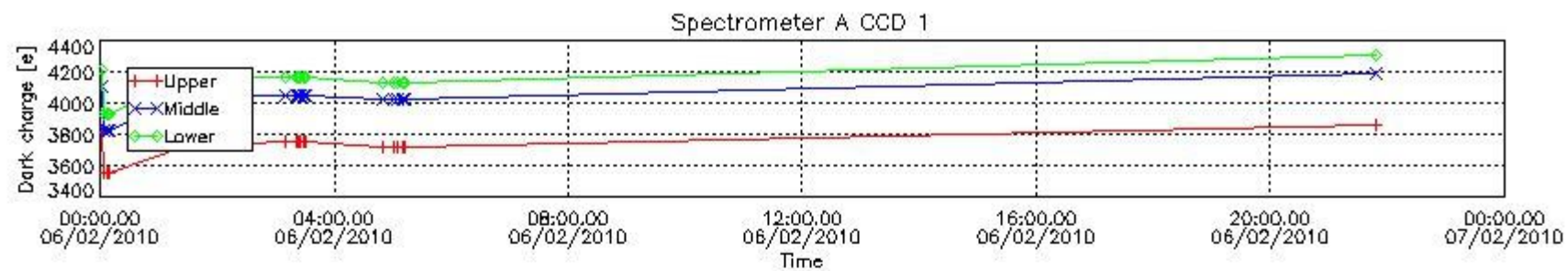
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20100206_201958_000000462086_00372_41508_9147.N1	DC map used
GOM_TRA_1PNPDE20100206_203448_000000492086_00372_41508_9148.N1	DC map used
GOM_TRA_1PNPDE20100206_210936_000000412086_00372_41508_9149.N1	DC map used



GOM_TRA_1PNPDE20100206_211327_000000372086_00372_41508_9150.N1	DC map used
GOM_TRA_1PNPDE20100206_215017_000000412086_00373_41509_9207.N1	DC map with no T dep.
GOM_TRA_1PNPDE20100206_215144_000000362086_00373_41509_9232.N1	DC map with no T dep.

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

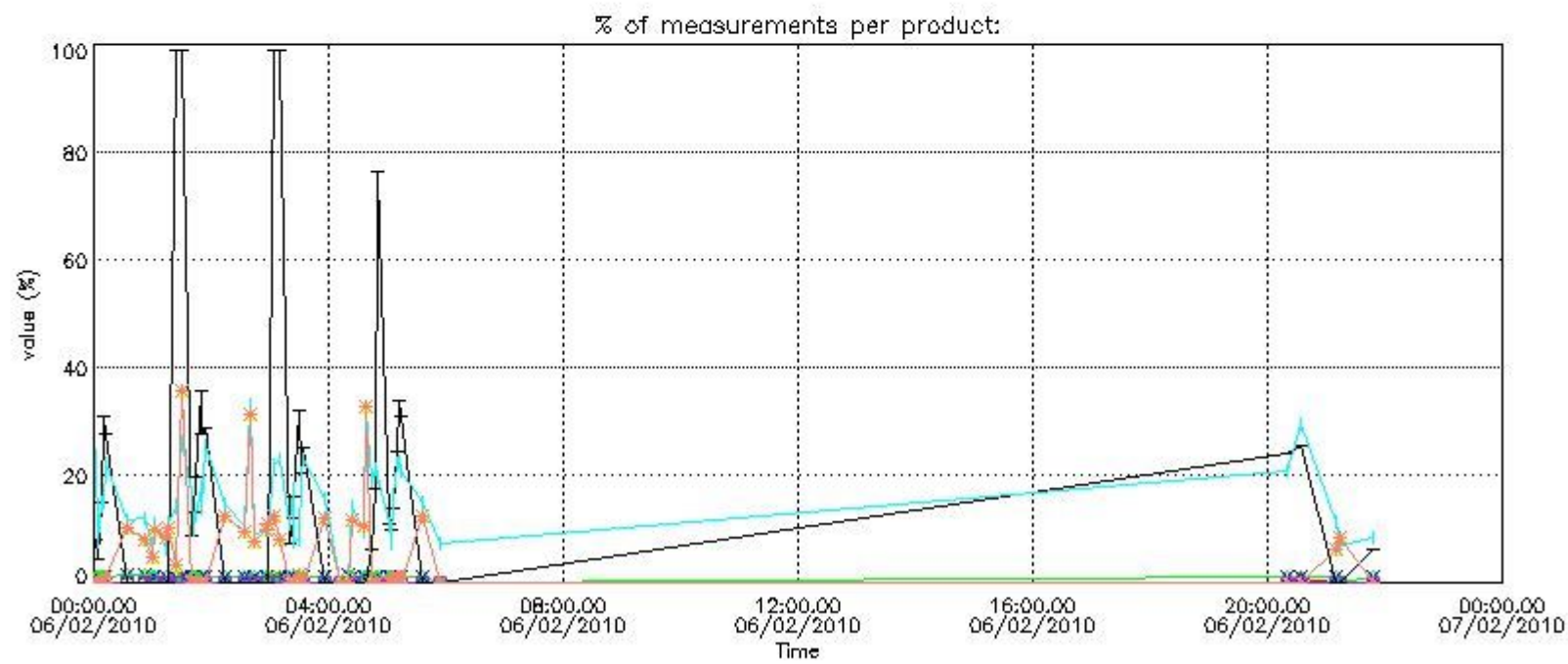
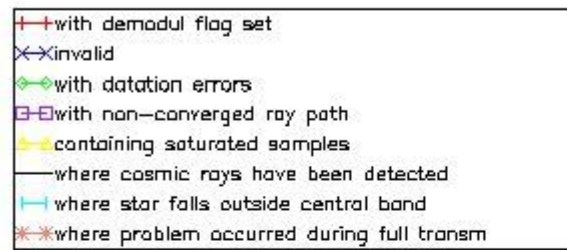


(error flag in the MPH set to "0") are used.

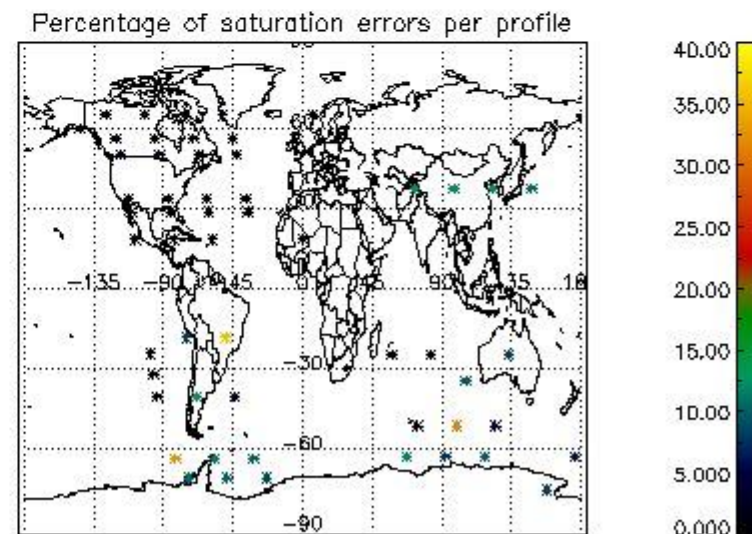
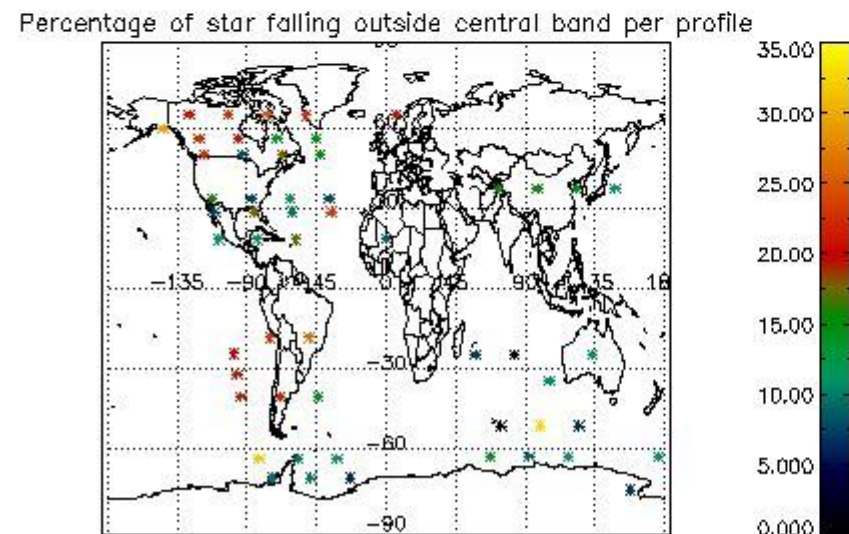
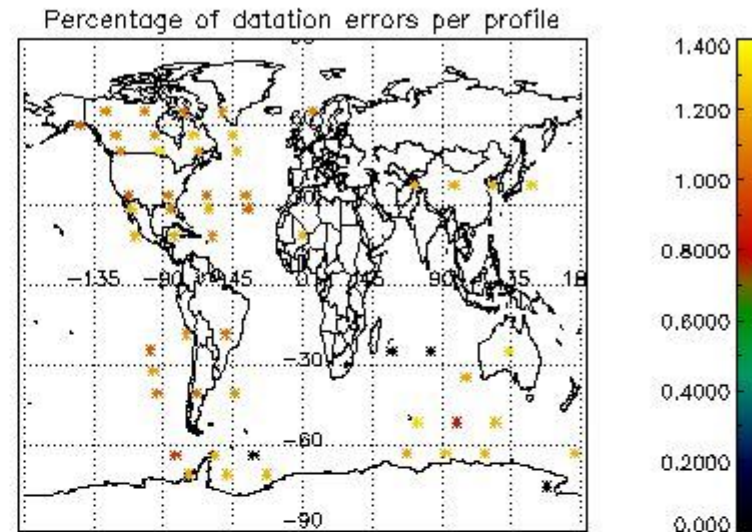
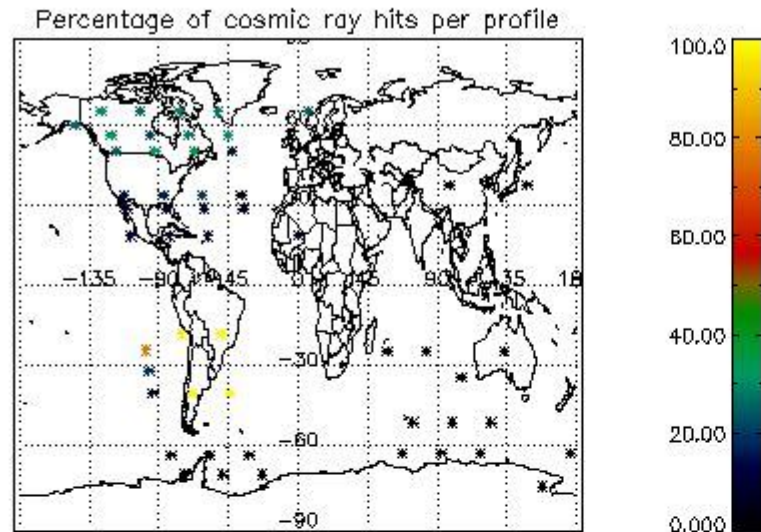
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	40.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



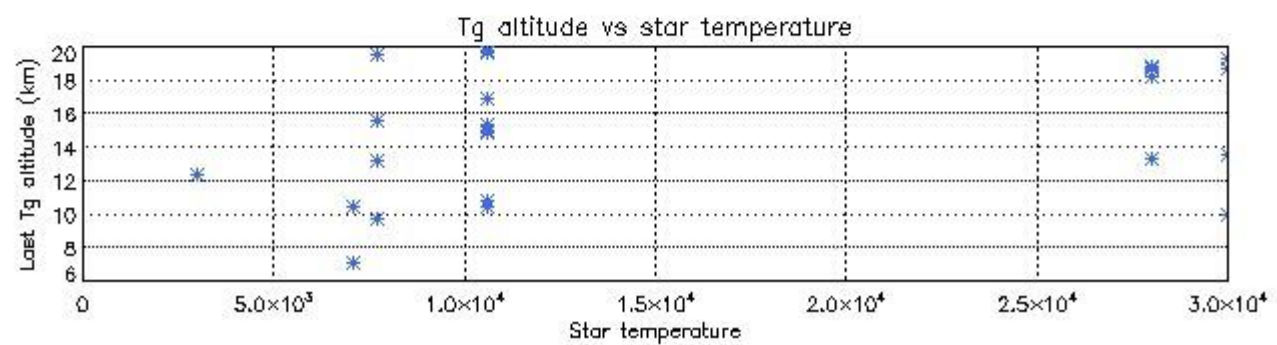
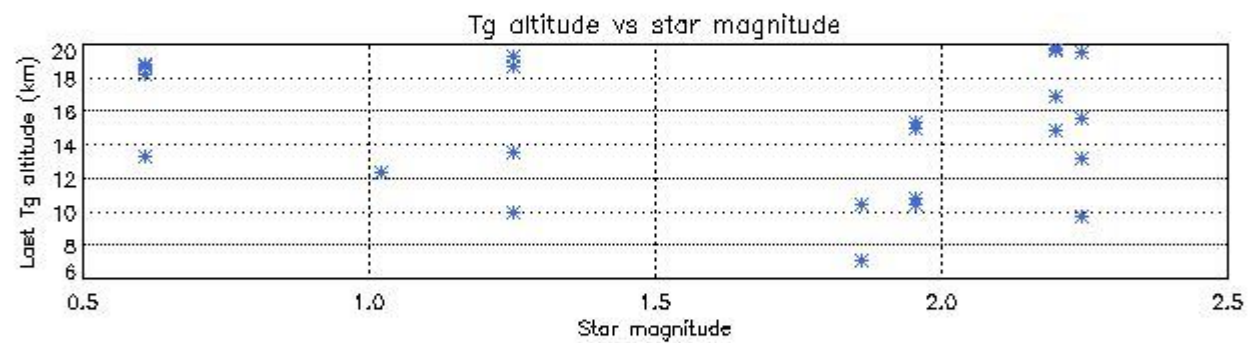
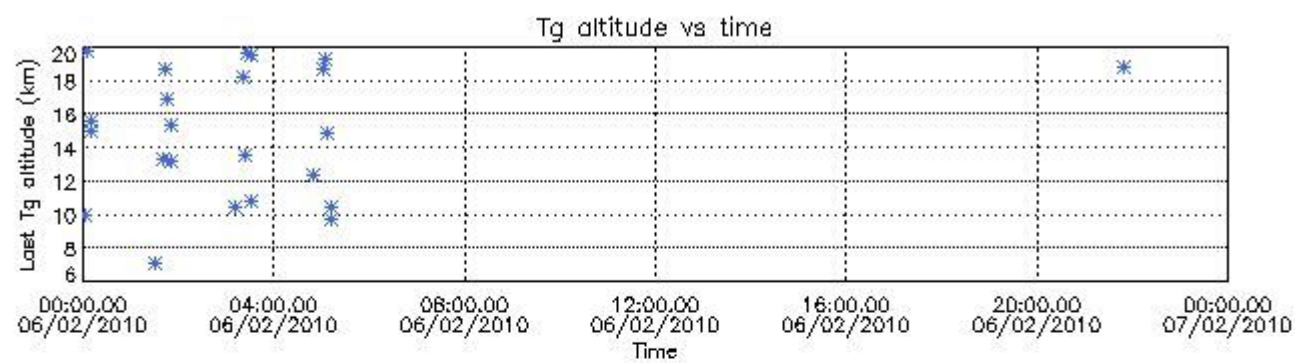
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.810	17.190	11.059
St. deviation:	3.8635	5.6482	0.0000
Maximum:	19.750	30.423	11.059
Minimum:	7.0733	3.6453	11.059
Number of data:	23.000	22.000	1.0000

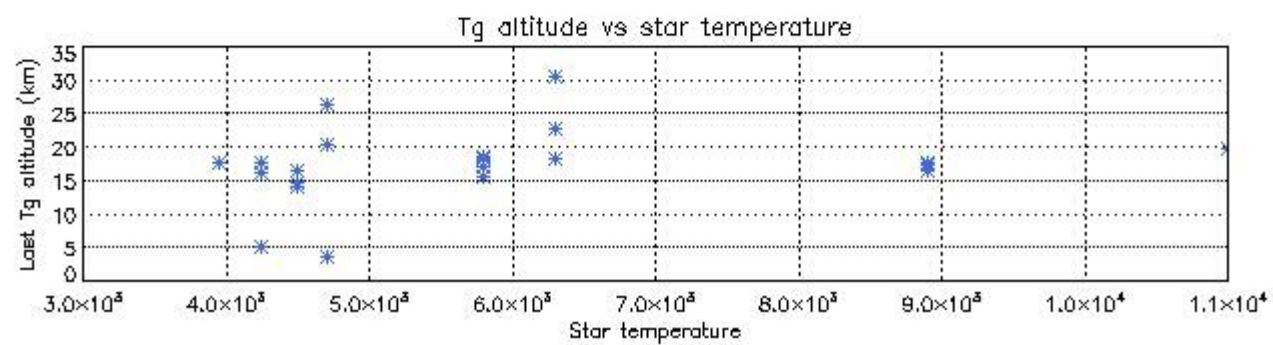
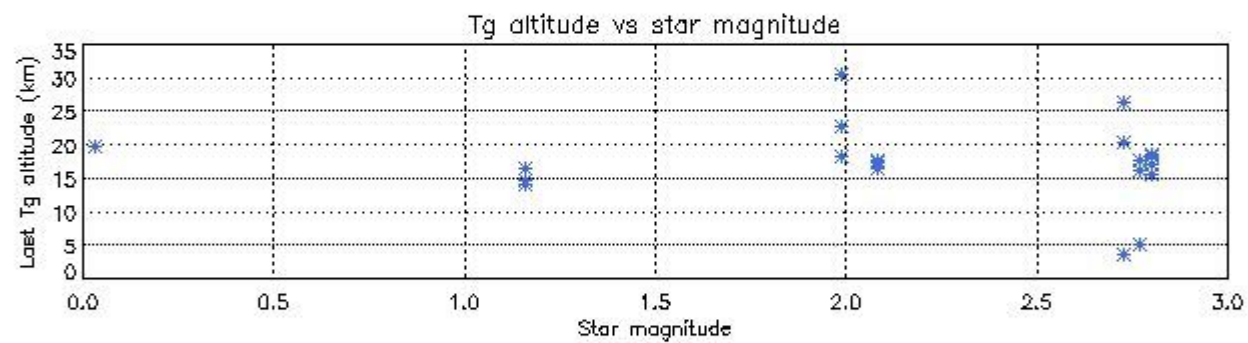
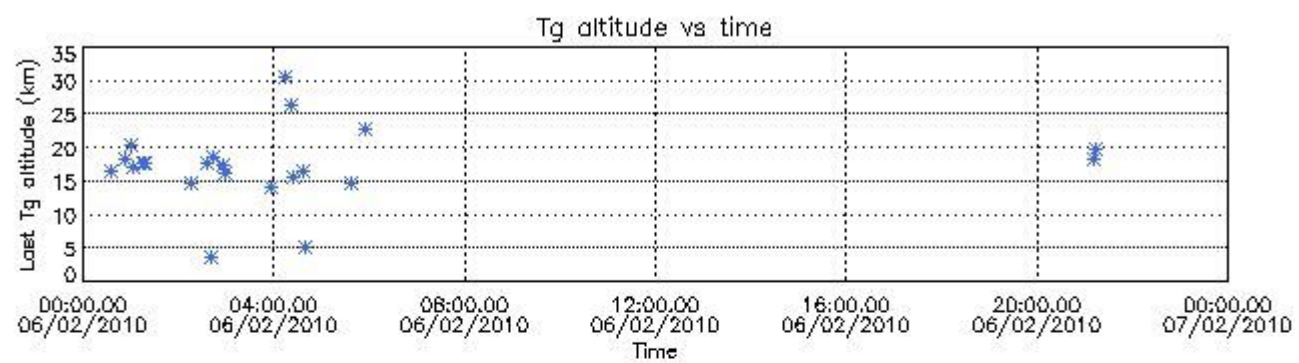
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

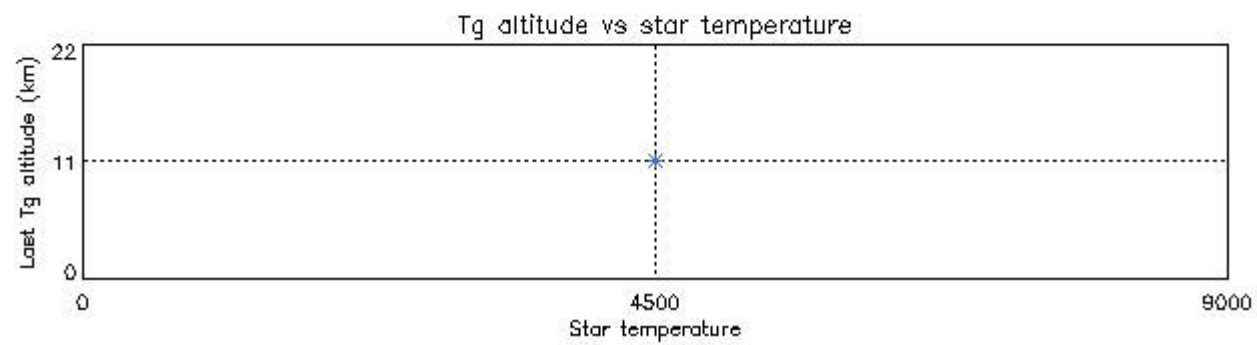
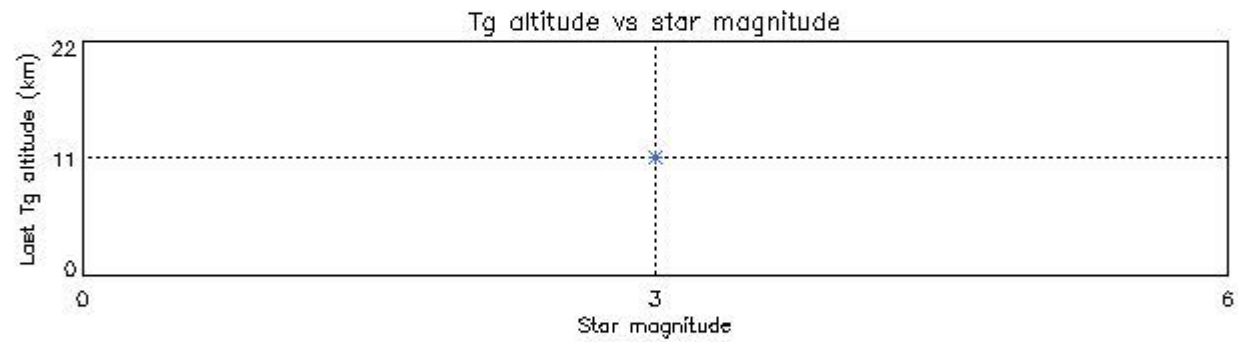
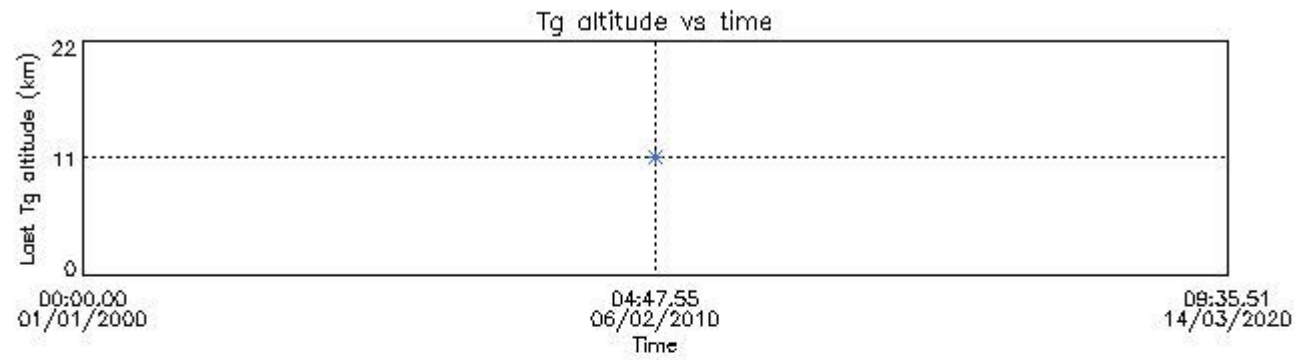
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



Tangent altitude at which the star is lost

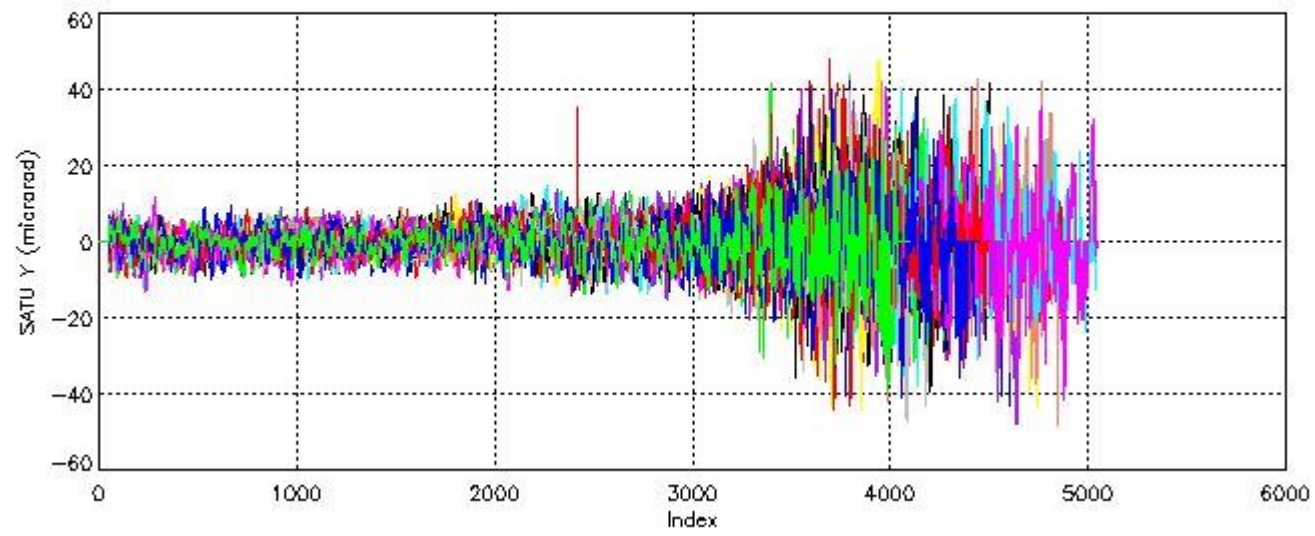
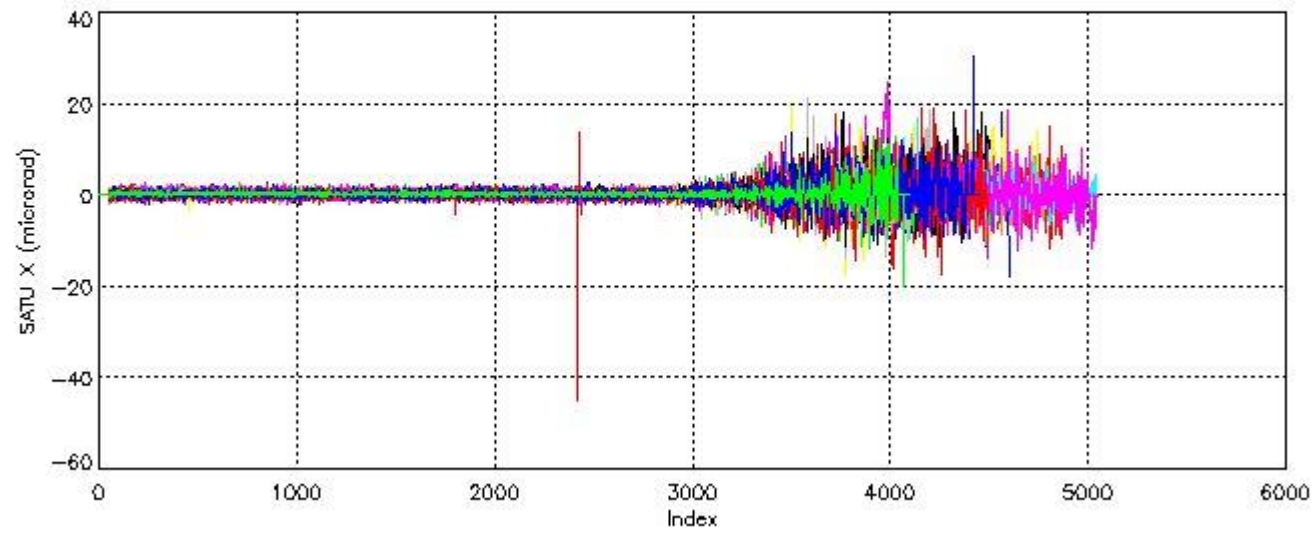


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.14873	-0.49378	0.090890	-0.42063
St. deviation:	0.46821	2.6981	0.53798	2.7300
Maximum:	2.9000	11.400	2.8000	11.500
Minimum:	-3.4000	-13.000	-2.4000	-13.200

Number of data:	21750.	21750.	19500.	19500.
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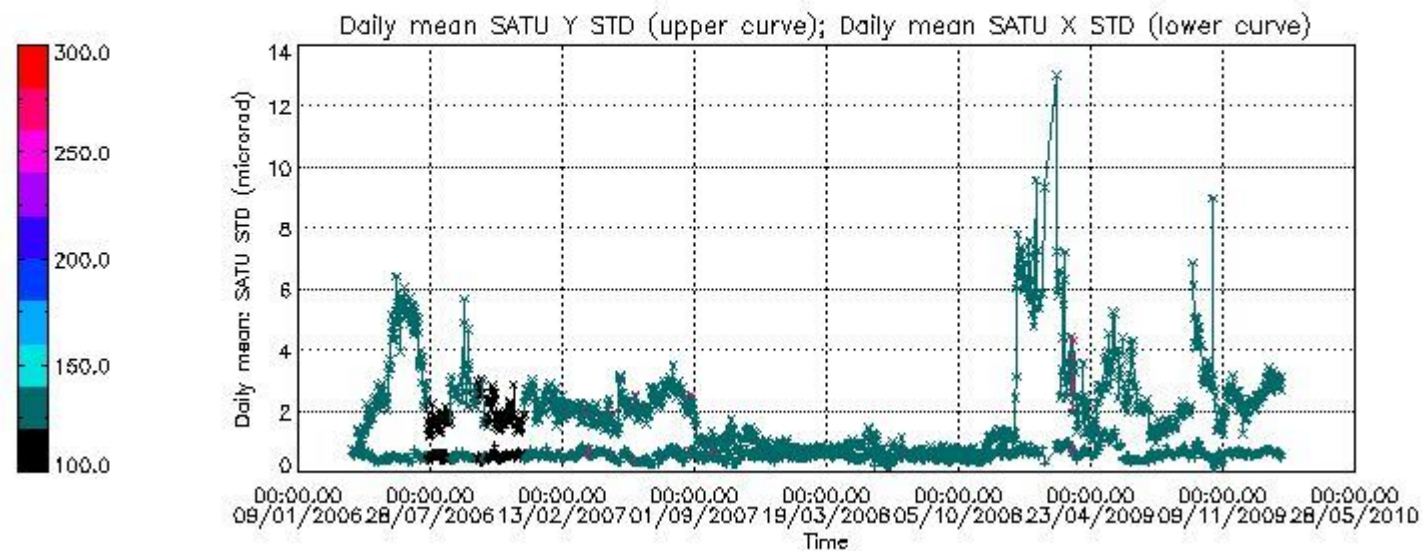
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

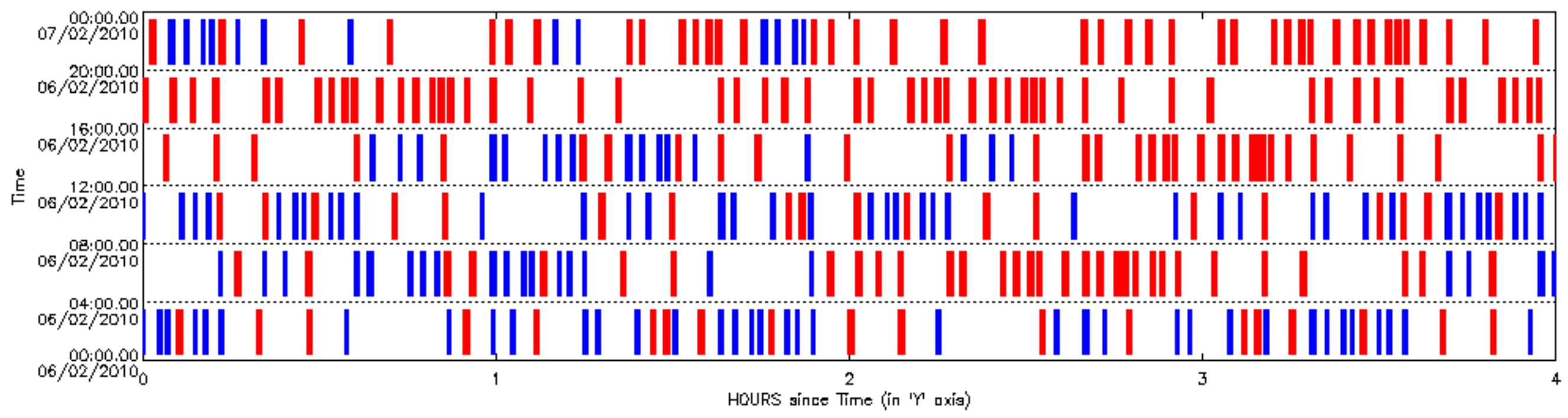
Lower curve: STD of SATU X axis



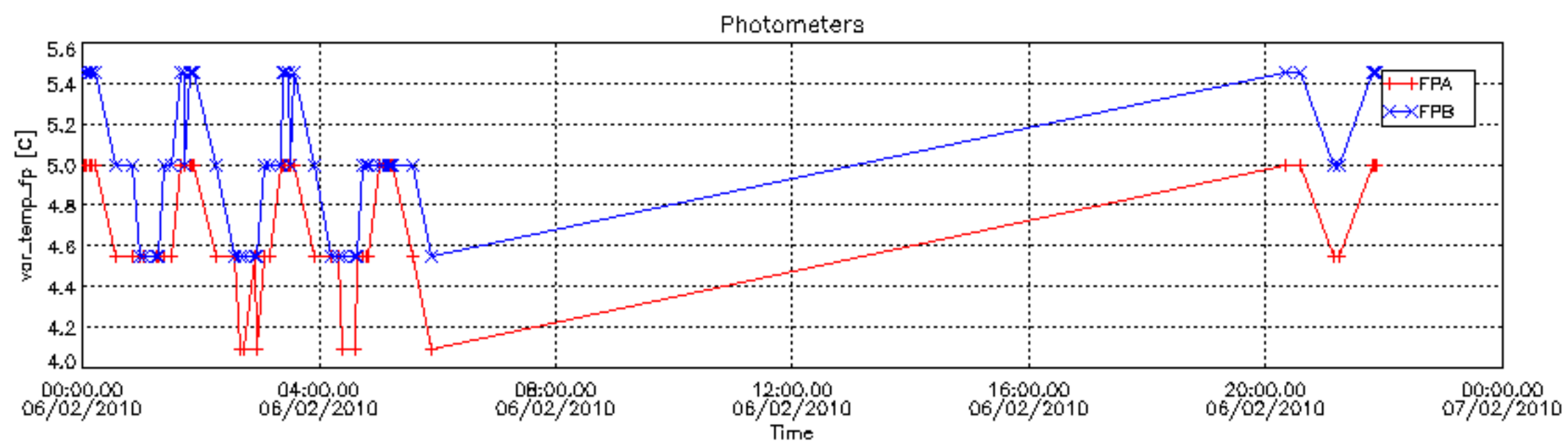
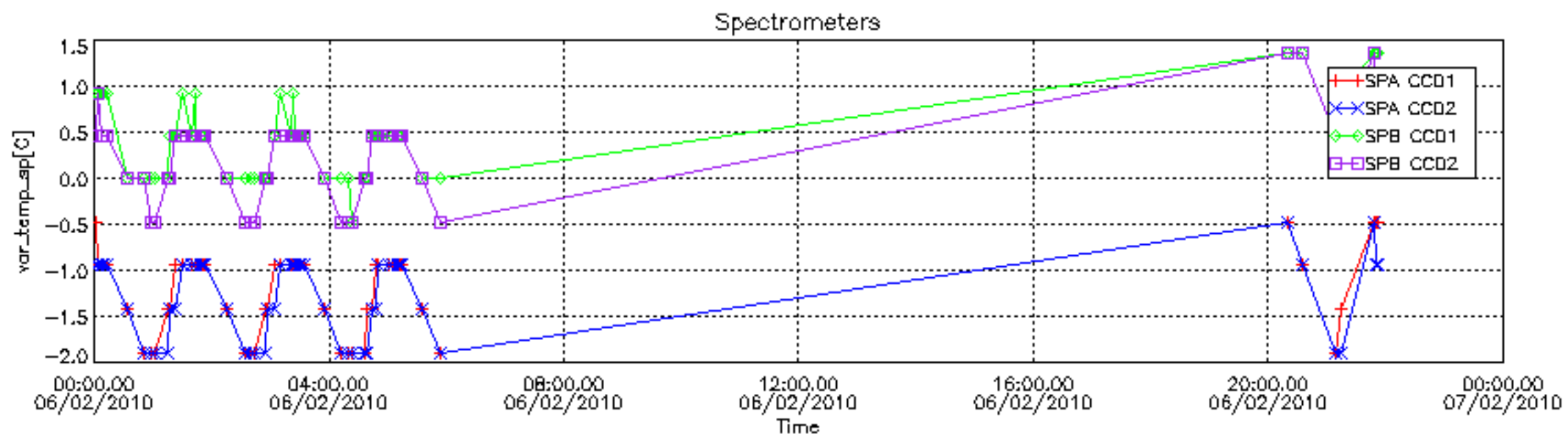
### 8. Auxiliary Data Files used for the production reported in section 2.4

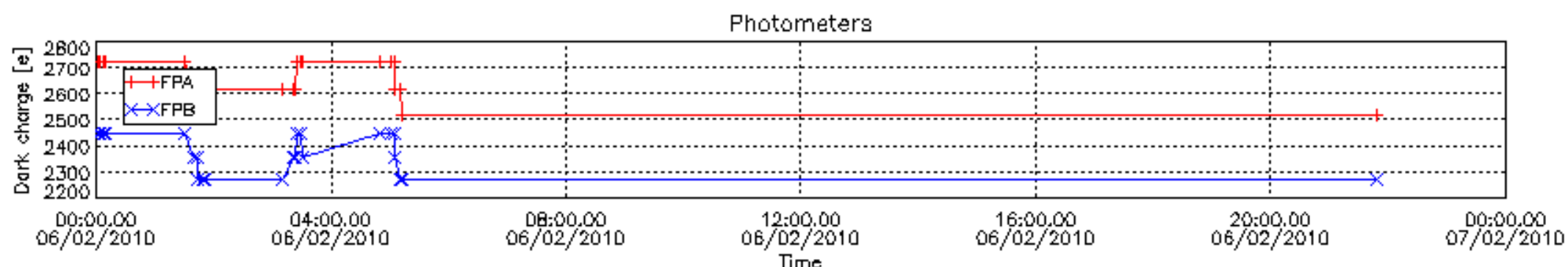
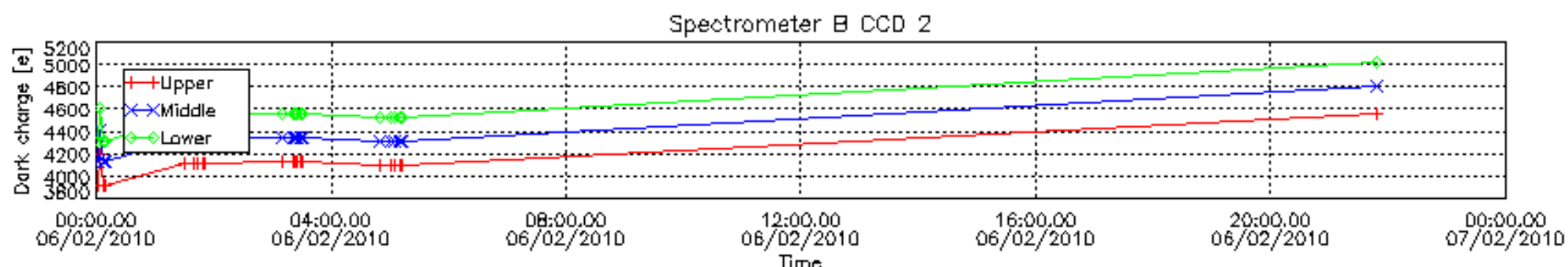
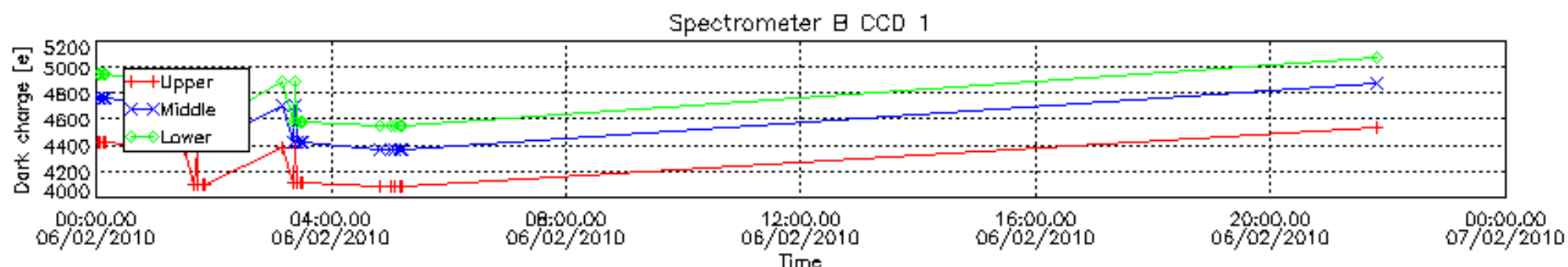
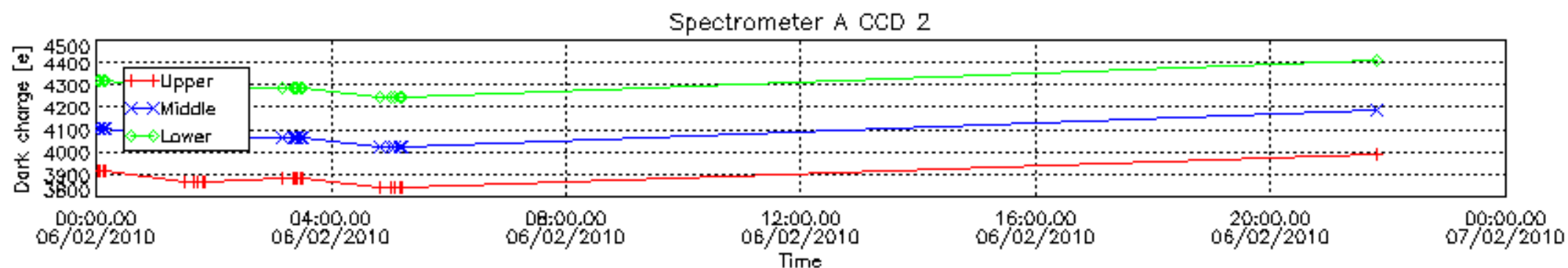
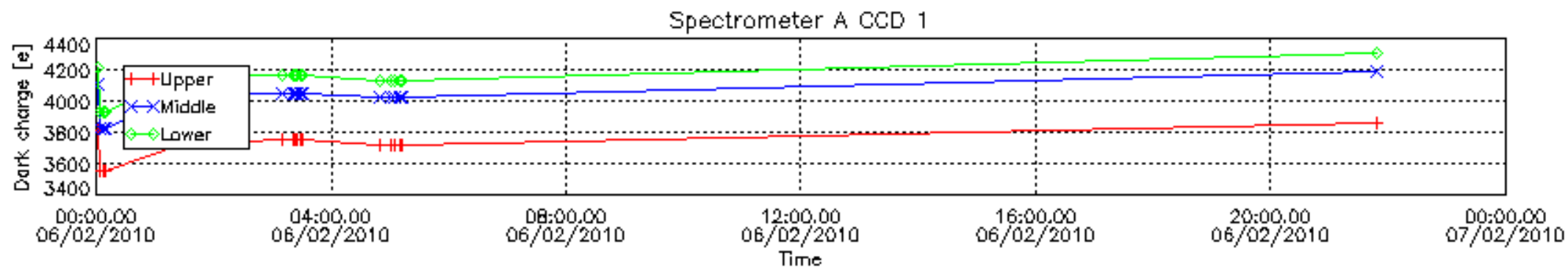
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

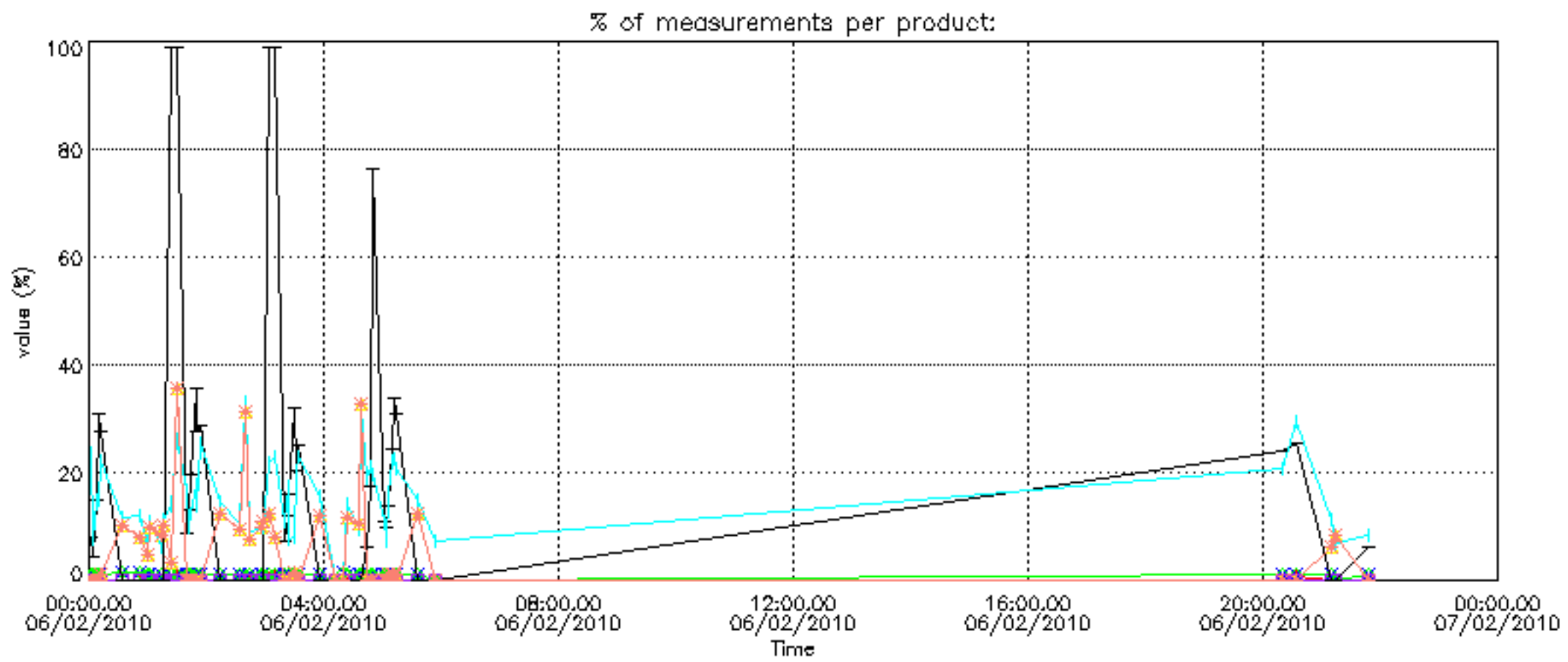
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-FEB-2010 00:02:22
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100202_143945_20100131_000000_20500101_000000	1	06-FEB-2010 00:02:22
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	06-FEB-2010 00:02:22
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-FEB-2010 00:02:22
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	06-FEB-2010 00:02:22
ECMWF_FILE	AUX_ECF_AXNECM20100205_062114_20100205_210000_20100206_090000	1	06-FEB-2010 00:02:22
ECMWF_FILE	AUX_ECF_AXNECM20100205_181256_20100206_030000_20100206_150000	36	06-FEB-2010 04:20:14
ECMWF_FILE	AUX_ECF_AXNECM20100206_062115_20100206_150000_20100207_030000	51	06-FEB-2010 20:19:58
ECMWF_FILE	AUX_ECF_AXNECM20100206_062115_20100206_210000_20100207_090000	55	06-FEB-2010 21:47:25
OPTIONAL_ECMWF_FILE	MISSING	1	06-FEB-2010 00:02:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100205_234101_000057382086_00359_41495_9713.N1	1	06-FEB-2010 00:02:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100206_012158_000041442086_00360_41496_9714.N1	12	06-FEB-2010 01:23:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100206_023621_000054192086_00361_41497_9715.N1	22	06-FEB-2010 02:39:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100206_041159_000057382086_00362_41498_9716.N1	36	06-FEB-2010 04:20:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100206_201340_000041442086_00372_41508_9717.N1	51	06-FEB-2010 20:19:58
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100204_234849_20100204_192410_20100214_205022	55	06-FEB-2010 21:47:25



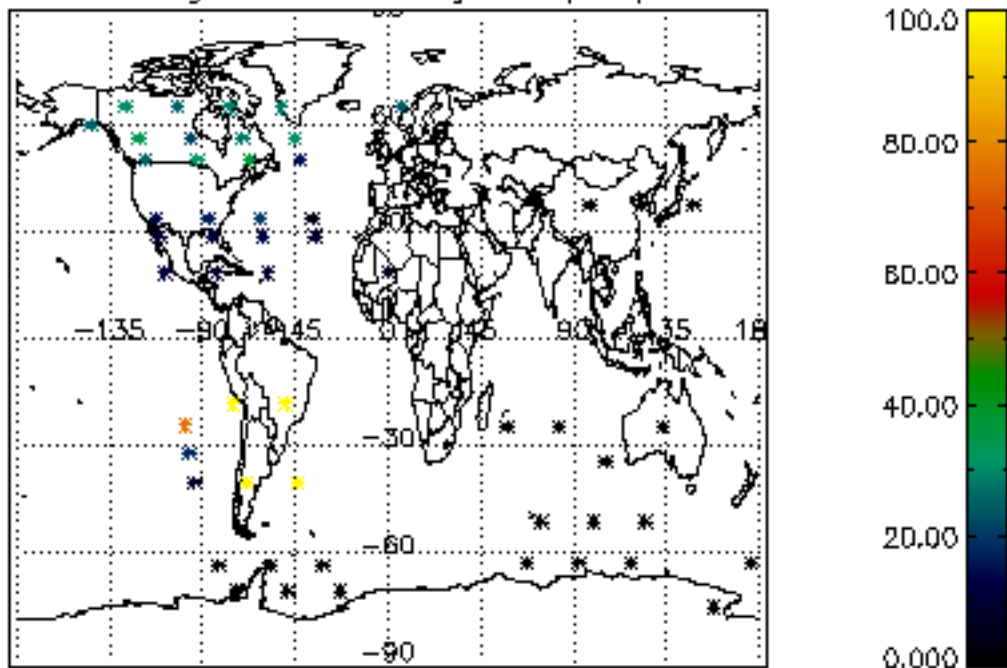




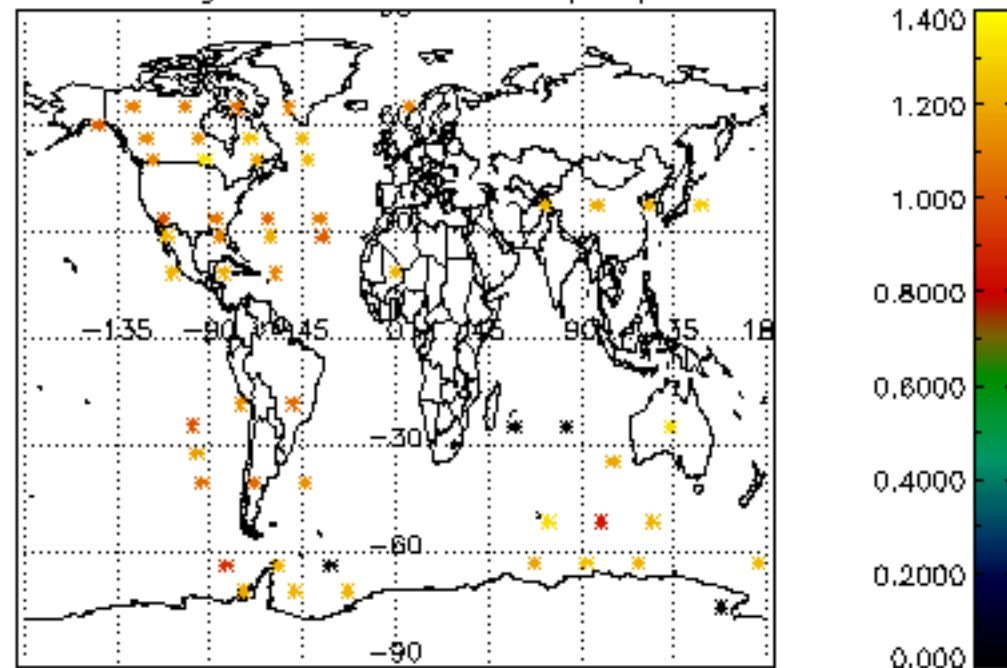




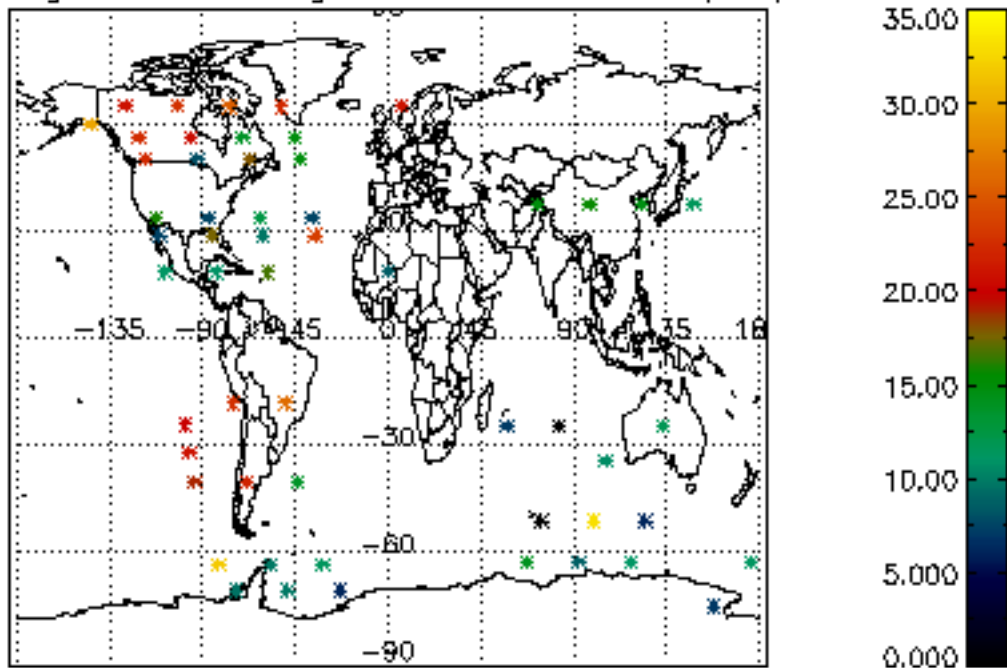
Percentage of cosmic ray hits per profile



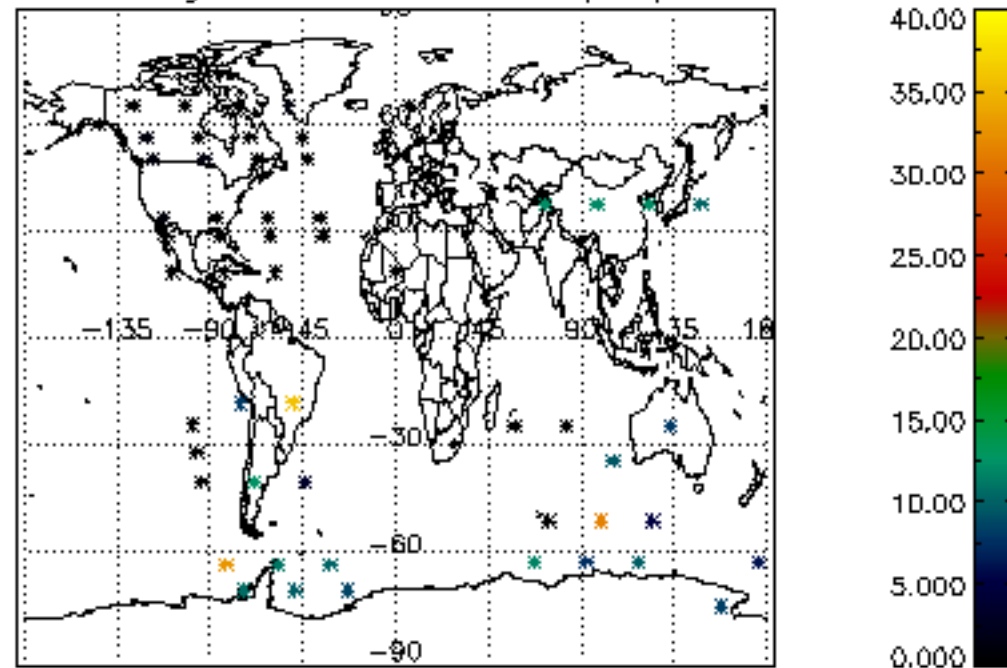
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

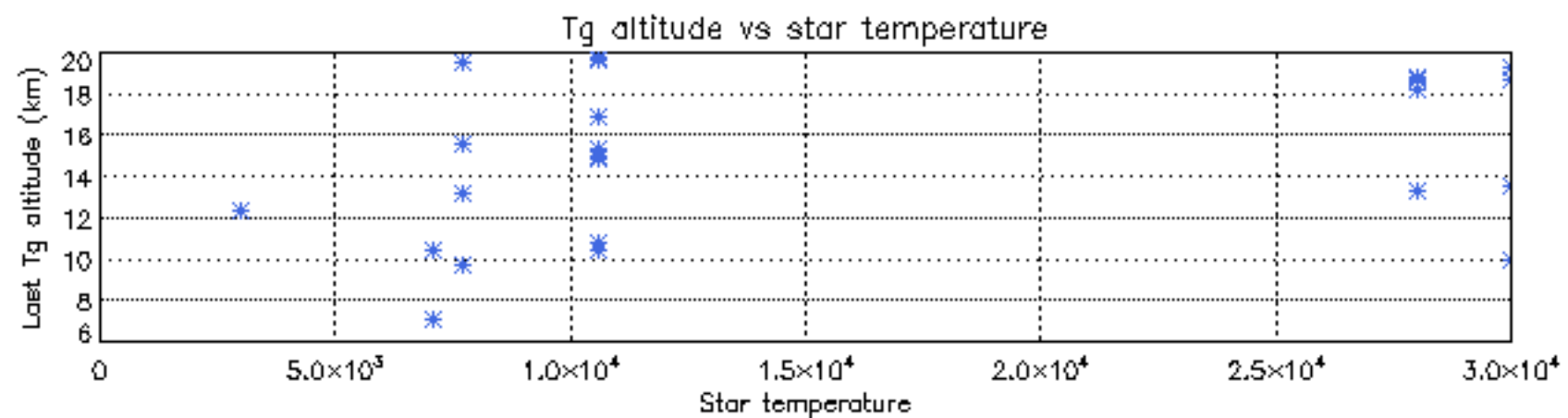
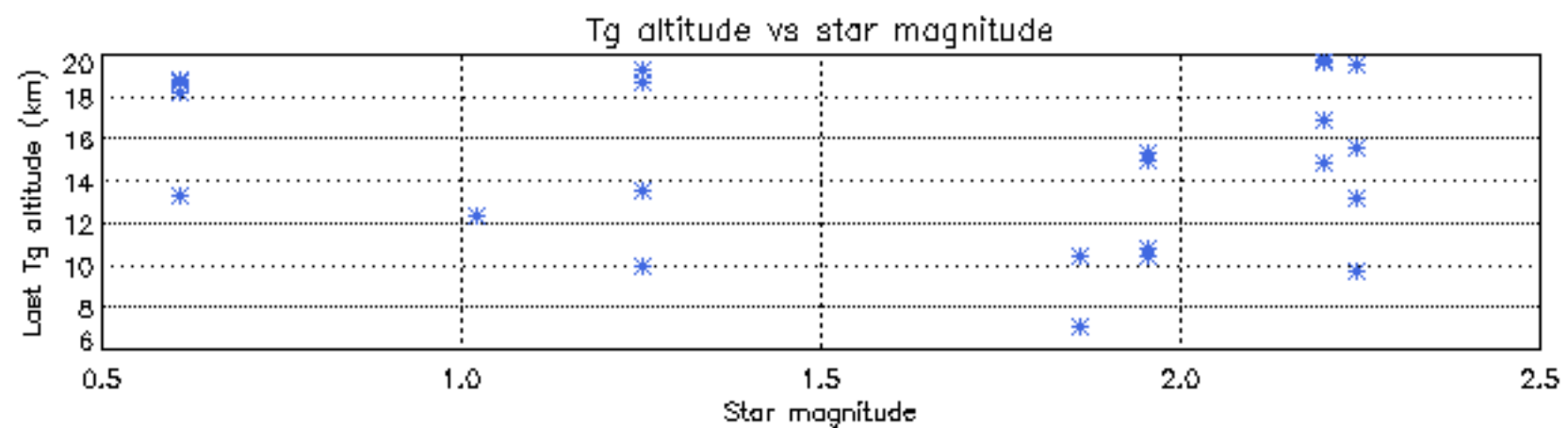
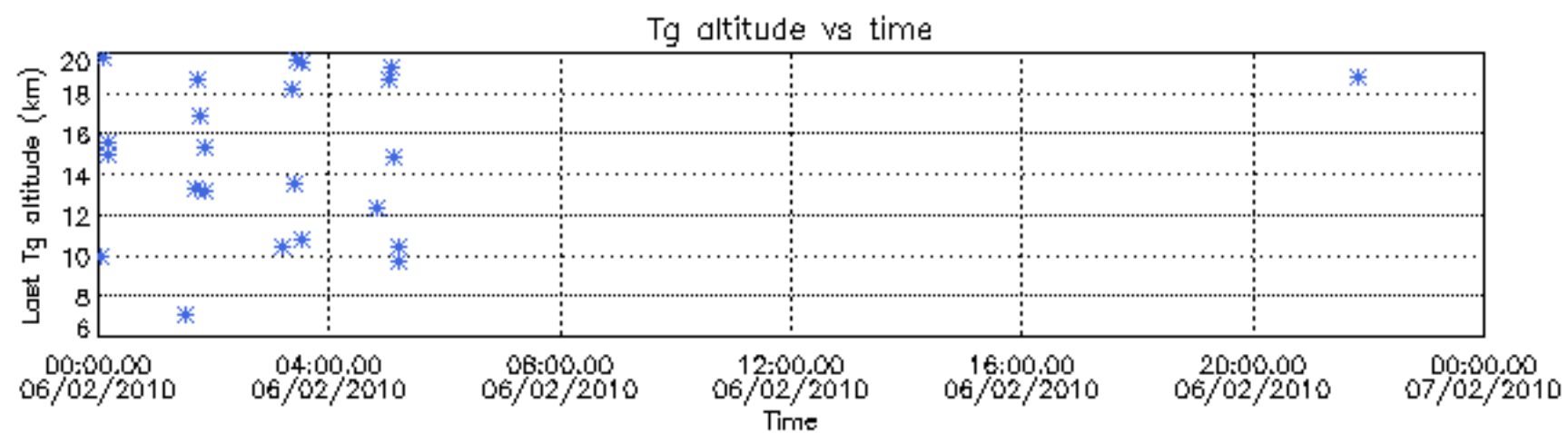


Percentage of saturation errors per profile

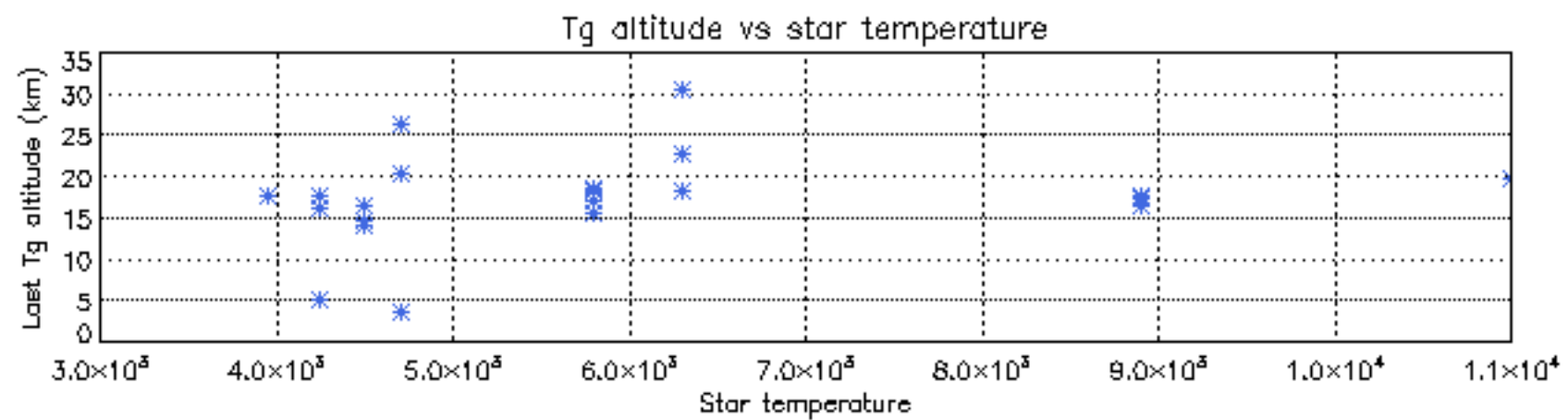
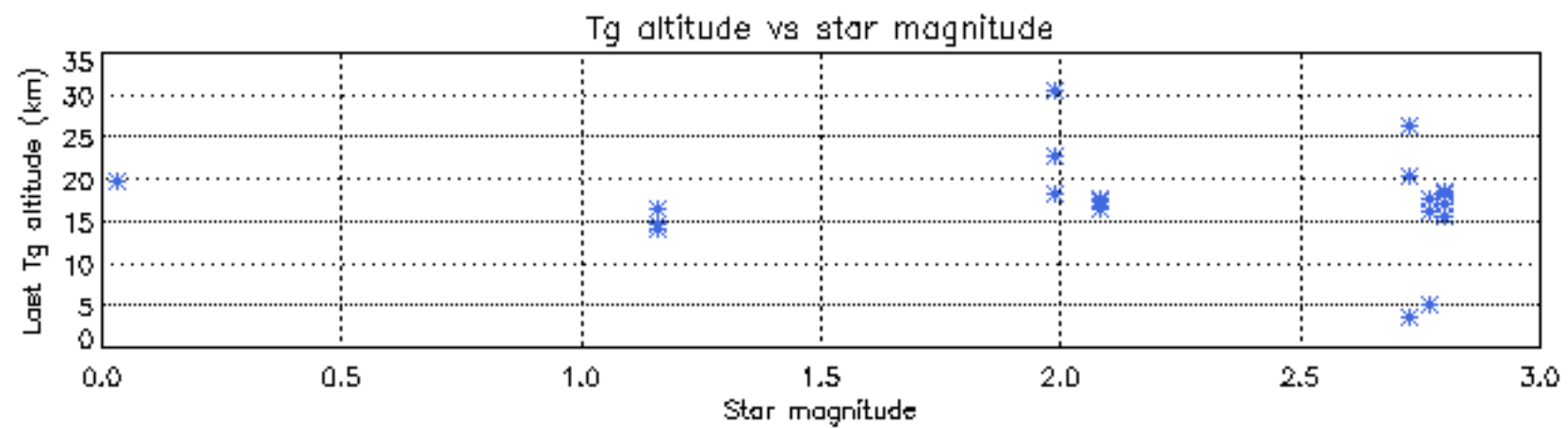
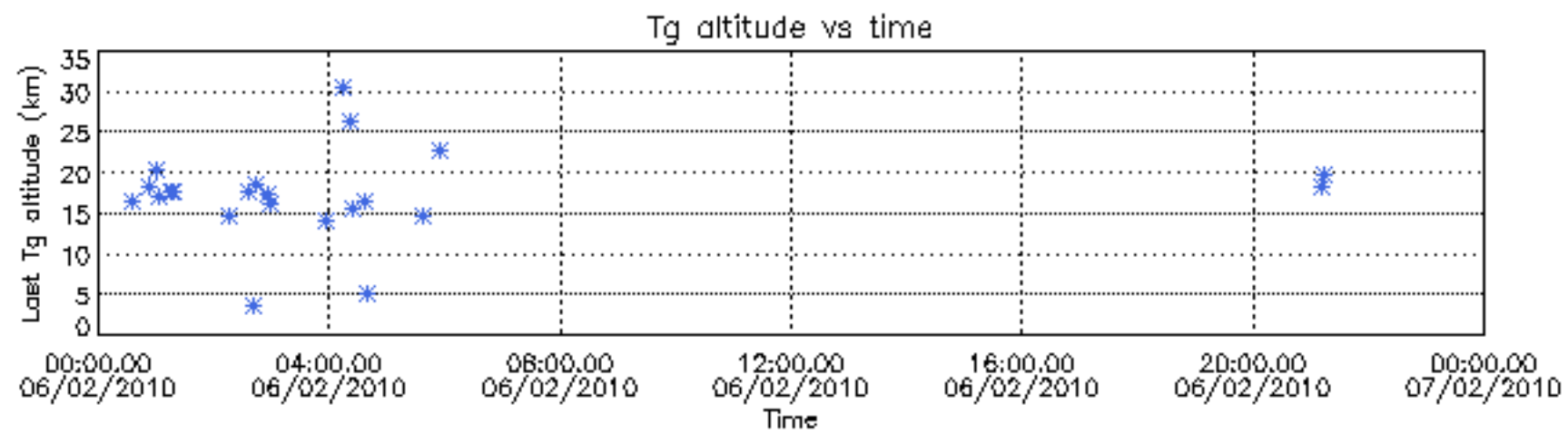




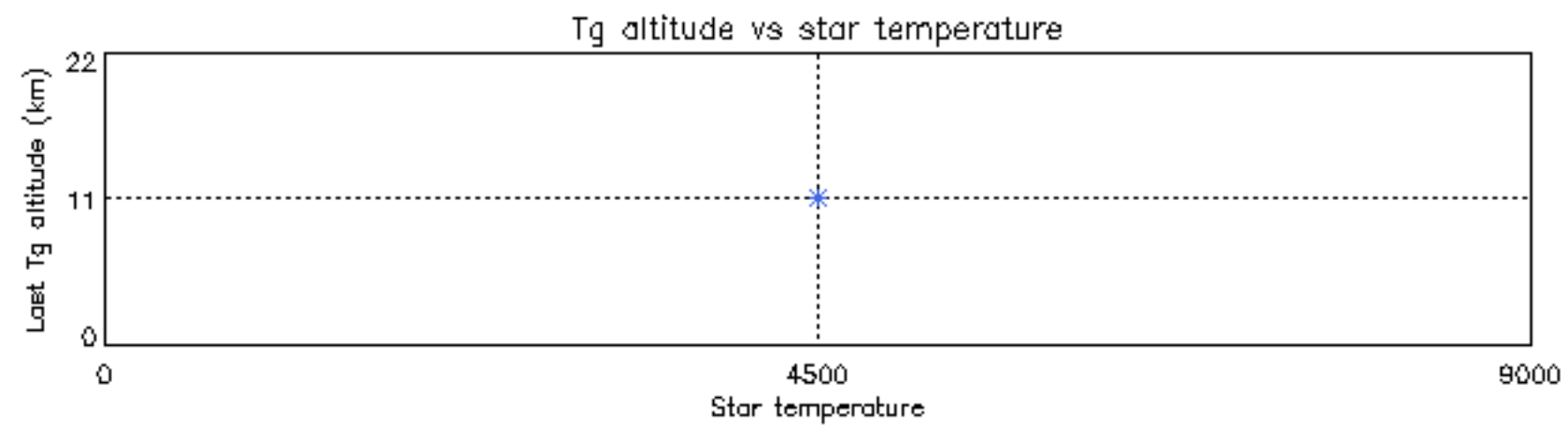
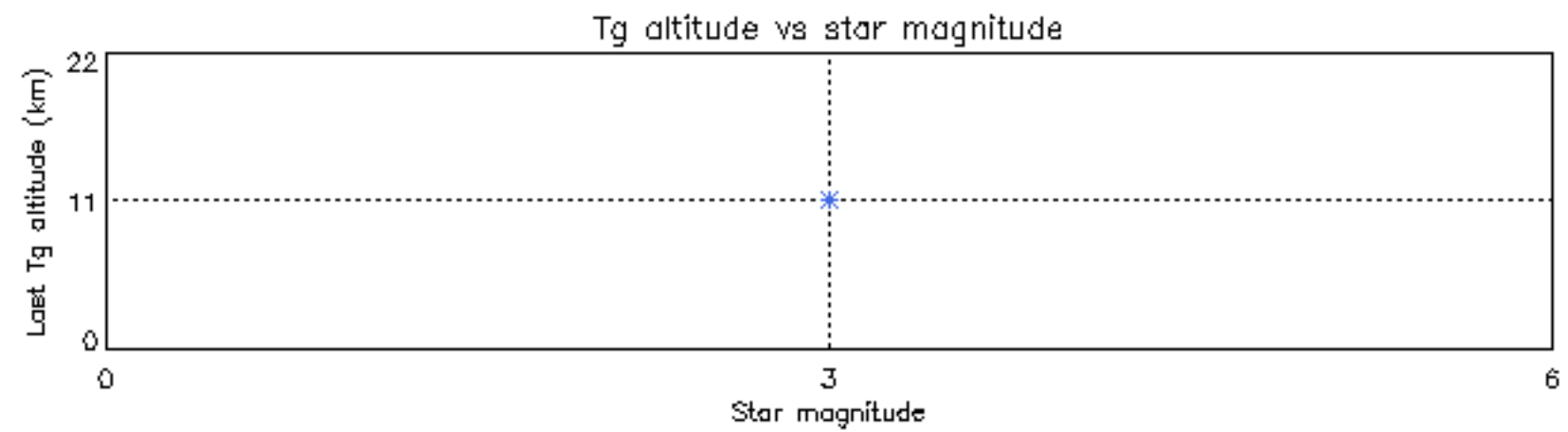
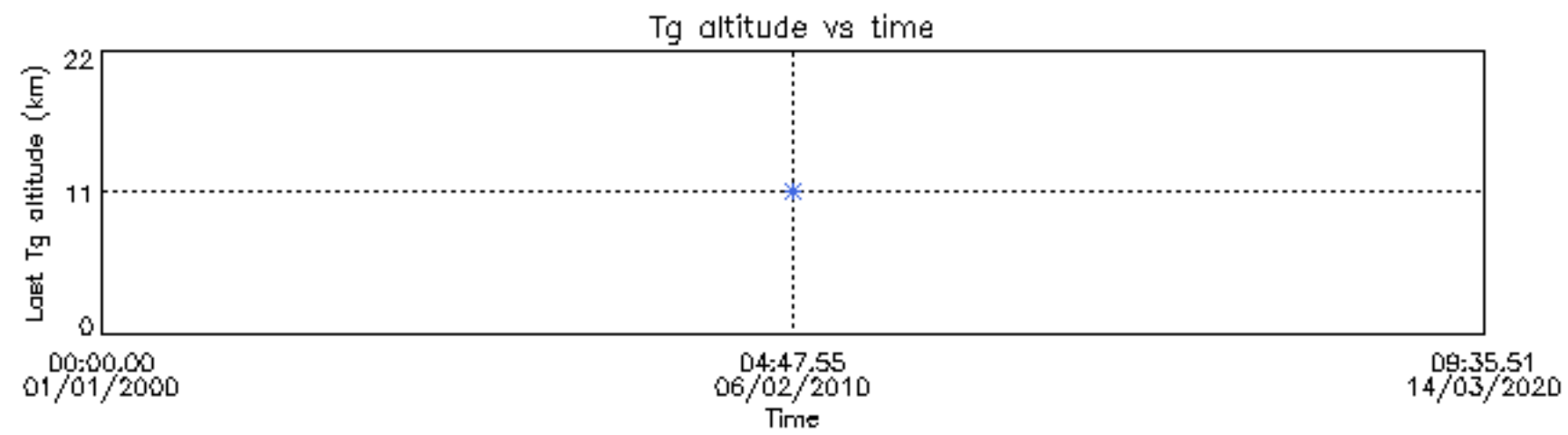
Tangent altitude at which the star is lost

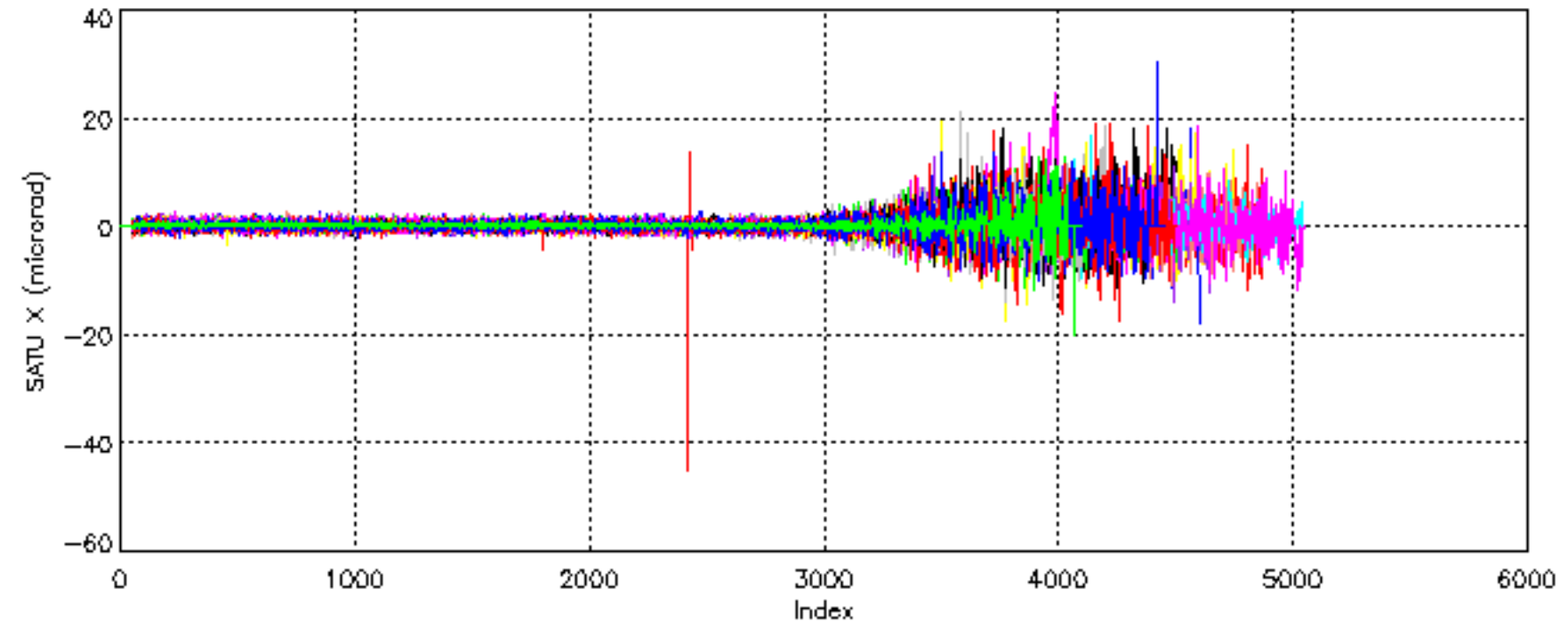


Tangent altitude at which the star is lost

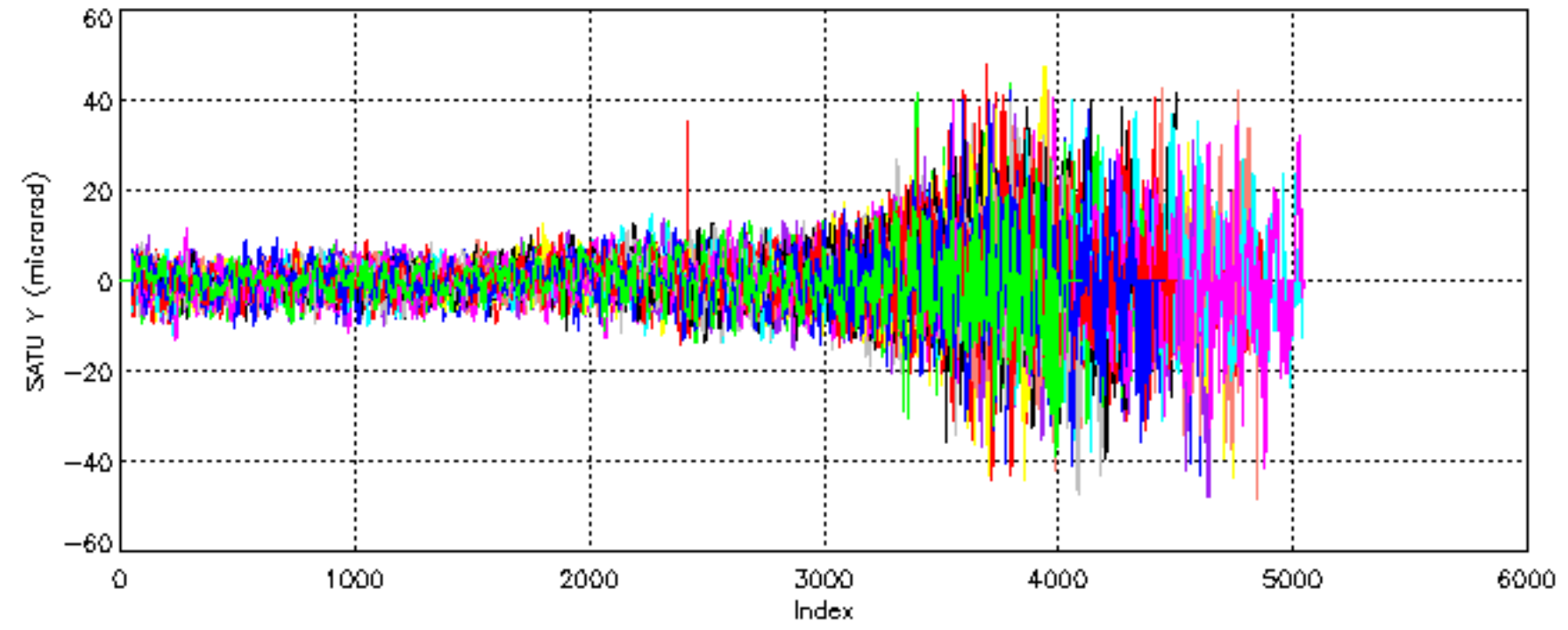


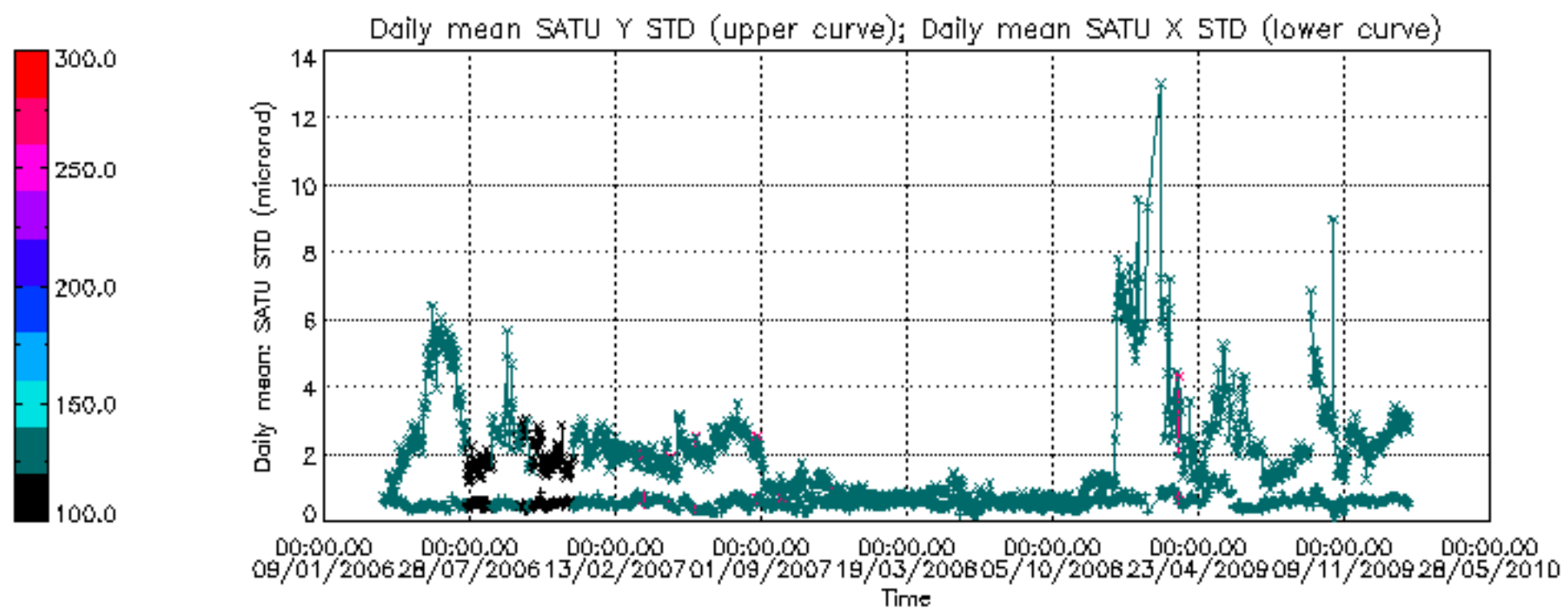
Tangent altitude at which the star is lost











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 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

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 3; -462.6; 01-FEB-2010 02:24:43; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;41425  
 4; -378.9; 01-FEB-2010 02:26:07; Dark ; 44.5; 158; 6Pi Sco ; 2.91; 28000;occ; 89; 0;41425  
 5; -115.5; 01-FEB-2010 02:30:30; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;41425  
 6; 18.5; 01-FEB-2010 02:32:44; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41426  
 7; 107.6; 01-FEB-2010 02:34:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41426  
 8; 195.5; 01-FEB-2010 02:35:41; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;41426  
 9; 312.2; 01-FEB-2010 02:37:38; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41426  
 10; 470.9; 01-FEB-2010 02:40:17; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41426  
 11; 592.5; 01-FEB-2010 02:42:18; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41426  
 12; 709.0; 01-FEB-2010 02:44:15; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41426  
 13; 824.1; 01-FEB-2010 02:46:10; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41426  
 14; 929.0; 01-FEB-2010 02:47:55; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41426  
 15; 1080.4; 01-FEB-2010 02:50:26; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;41426  
 16; 1205.4; 01-FEB-2010 02:52:31; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;41426  
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 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  
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 3; -1949.0; 01-FEB-2010 03:40:33; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;41426  
 4; -1731.1; 01-FEB-2010 03:44:11; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;41426  
 5; -1238.0; 01-FEB-2010 03:52:24; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;41426  
 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  
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 11; 108.3; 01-FEB-2010 04:14:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41427  
 12; 196.0; 01-FEB-2010 04:16:18; Dark ; 54.5; 4; Alp1Cen ;-0.01; 5800;occ; 109; 0;41427  
 13; 312.7; 01-FEB-2010 04:18:14; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41427  
 14; 471.4; 01-FEB-2010 04:20:53; Dark ; 48.0; 12; Alp1Cru ; 0.77; 30000;occ; 96; 0;41427  
 15; 593.0; 01-FEB-2010 04:22:55; Dark ; 49.0; 99; Del Cen ; 2.58; 26000;occ; 98; 0;41427  
 16; 709.3; 01-FEB-2010 04:24:51; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;41427  
 17; 824.6; 01-FEB-2010 04:26:46; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;41427  
 18; 929.4; 01-FEB-2010 04:28:31; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41427  
 19; 1080.4; 01-FEB-2010 04:31:02; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;41427

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21; 1467.8; 01-FEB-2010 04:37:29; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;41427
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23; 2341.6; 01-FEB-2010 04:52:03; Bright; 36.0; 170; 27Eps Gem ; 3.00; 9700;occ; 72; 0;41427
24; 2455.7; 01-FEB-2010 04:53:57; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;41427
25; 3427.6; 01-FEB-2010 05:10:09; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;41427
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5; -1237.8; 01-FEB-2010 05:33:00; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;41427
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9; -377.3; 01-FEB-2010 05:47:20; Dark ; 45.5; 158; 6Pi Sco ; 2.91; 28000;occ; 91; 0;41427
10; -113.8; 01-FEB-2010 05:51:44; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;41427
11; 109.0; 01-FEB-2010 05:55:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41428
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13; 313.4; 01-FEB-2010 05:58:51; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;41428
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16; 709.7; 01-FEB-2010 06:05:27; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41428
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22; 1992.9; 01-FEB-2010 06:26:51; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;41428
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24; 2455.4; 01-FEB-2010 06:34:33; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;41428
25; 3427.8; 01-FEB-2010 06:50:45; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;41428
26; 3612.8; 01-FEB-2010 06:53:50; Bright; 44.5; 60; 7Bet UMi ; 2.08; 3950;occ; 89; 0;41428
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2; 931.8; 01-FEB-2010 19:33:57; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;41436
3; 1082.8; 01-FEB-2010 19:36:28; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;41436
4; 1207.6; 01-FEB-2010 19:38:33; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;41436
5; 1469.4; 01-FEB-2010 19:42:54; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;41436
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12; 4086.8; 01-FEB-2010 20:26:32; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;41436
13; 4306.4; 01-FEB-2010 20:30:12; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41436
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3; -368.9; 01-FEB-2010 20:52:52; Dark ; 47.5; 158; 6Pi Sco ; 2.91; 28000;occ; 95; 0;41436
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5; 28.2; 01-FEB-2010 20:59:29; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41437
6; 115.3; 01-FEB-2010 21:00:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41437
7; 201.2; 01-FEB-2010 21:02:22; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;41437
8; 320.5; 01-FEB-2010 21:04:22; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;41437
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11; 712.4; 01-FEB-2010 21:10:53; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;41437
12; 827.5; 01-FEB-2010 21:12:49; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;41437
13; 932.2; 01-FEB-2010 21:14:33; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;41437
14; 1082.8; 01-FEB-2010 21:17:04; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;41437
15; 1207.7; 01-FEB-2010 21:19:09; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;41437
16; 1469.8; 01-FEB-2010 21:23:31; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;41437
17; 1993.0; 01-FEB-2010 21:32:14; Dark ; 46.5; 8; 10Alp CMi ; 0.40; 6500;occ; 93; 0;41437

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 19; 2454.7; 01-FEB-2010 21:39:56; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;41437  
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 3; -105.6; 01-FEB-2010 22:37:51; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;41437  
 4; 29.1; 01-FEB-2010 22:40:06; Dark ; 46.5; 109; Bet Lup ; 2.68; 26000;occ; 93; 0;41438  
 5; 116.1; 01-FEB-2010 22:41:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41438  
 6; 201.8; 01-FEB-2010 22:42:59; Dark ; 53.5; 4; Alp1Cen ;-0.01; 5800;occ; 107; 0;41438  
 7; 274.4; 01-FEB-2010 22:44:11; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;41438  
 8; 477.2; 01-FEB-2010 22:47:34; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;41438  
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 22; 4086.5; 01-FEB-2010 23:47:43; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;41438  
 23; 4306.6; 01-FEB-2010 23:51:23; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;41438  
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 13; 197.0; 01-FEB-2010 07:37:31; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;41429  
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13; 5661.4; 01-FEB-2010 10:49:11; Dark ; 47.5; 158; 6Pi Sco ; 2.91; 28000;occ; 95; 0;41430
14; 5924.4; 01-FEB-2010 10:53:34; Dark ; 44.0; 131; Gam Lup ; 2.80; 26000;occ; 88; 0;41430
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23; 6966.3; 01-FEB-2010 11:10:56; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41430
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23; 6966.4; 01-FEB-2010 12:51:32; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;41431
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16; 6061.7; 01-FEB-2010 15:57:39; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41433
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18; 6235.6; 01-FEB-2010 16:00:33; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41433
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22; 6747.4; 01-FEB-2010 16:09:04; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;41433
23; 6862.9; 01-FEB-2010 16:11:00; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;41433
24; 6967.4; 01-FEB-2010 16:12:45; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;41433
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 12; 4928.7; 01-FEB-2010 17:19:22; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;41434  
 13; 5319.3; 01-FEB-2010 17:25:52; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;41434  
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 17; 6062.4; 01-FEB-2010 17:38:16; Dark ; 45.5; 109; Bet Lup ; 2.68; 26000;occ; 91; 0;41434  
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 7; 275.0; 02-FEB-2010 00:24:48; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;41439  
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 15; 1469.8; 02-FEB-2010 00:44:42; Dark ; 40.5; 132; 15Rho Pup ; 2.80; 6900;occ; 81; 0;41439  
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 18; 2454.2; 02-FEB-2010 01:01:07; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41439  
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 22; 4086.7; 02-FEB-2010 01:28:19; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41439  
 23; 4306.9; 02-FEB-2010 01:32:00; Bright; 51.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 103; 0;41439



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25; 4930.2; 02-FEB-2010 01:42:23; Bright; 53.5; 126; 60Bet Oph ; 2.77; 4250;occ; 107; 0;41439
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2; 935.9; 02-FEB-2010 20:43:00; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;41451
3; 1086.0; 02-FEB-2010 20:45:30; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;41451
4; 1210.9; 02-FEB-2010 20:47:35; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;41451
5; 1472.0; 02-FEB-2010 20:51:56; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;41451
6; 1993.3; 02-FEB-2010 21:00:37; Dark ; 47.5; 8; 10Alp CMi ; 0.40; 6500;occ; 95; 0;41451
7; 2390.3; 02-FEB-2010 21:07:14; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;41451
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14; 4934.1; 02-FEB-2010 21:49:38; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41451
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3; -94.1; 02-FEB-2010 22:06:26; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;41451
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7; 612.7; 02-FEB-2010 22:18:12; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;41452
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9; 832.4; 02-FEB-2010 22:21:52; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;41452
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11; 1086.4; 02-FEB-2010 22:26:06; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;41452
12; 1211.1; 02-FEB-2010 22:28:11; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;41452
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22; 4934.4; 02-FEB-2010 23:30:14; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41452
23; 5328.5; 02-FEB-2010 23:36:48; Dark ; 31.5; 86; 35Eta Oph ; 2.43; 10200;occ; 63; 0;41452
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8; 613.4; 02-FEB-2010 23:58:49; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;41453
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4; -1233.1; 02-FEB-2010 06:42:03; Bright; 56.0; 59; 55Alp Oph ; 2.08; 8900;occ; 112; 0;41442
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 19; 6519.1; 02-FEB-2010 17:14:15; Dark ; 45.0; 12; Alp1Cru ; 0.77; 30000;occ; 90; 0;41448  
 20; 6646.3; 02-FEB-2010 17:16:22; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41448  
 21; 6752.4; 02-FEB-2010 17:18:08; Dark ; 44.5; 159; Ups Car ; 2.92; 7200;occ; 89; 0;41448  
 22; 6867.7; 02-FEB-2010 17:20:04; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;41448  
 23; 6971.5; 02-FEB-2010 17:21:47; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;41448  
 24; 7121.7; 02-FEB-2010 17:24:18; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;41448

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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  
 4; 1993.3; 02-FEB-2010 17:39:25; Dark ; 50.0; 8; 10Alp CMi ; 0.40; 6500;occ; 100; 0;41449  
 5; 2350.1; 02-FEB-2010 17:45:22; Bright; 31.5; 170; 27Eps Gem ; 3.00; 9700;occ; 63; 0;41449  
 6; 2453.6; 02-FEB-2010 17:47:06; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;41449  
 7; 3428.1; 02-FEB-2010 18:03:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;41449  
 8; 3607.4; 02-FEB-2010 18:06:19; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41449  
 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  
 11; 4308.2; 02-FEB-2010 18:18:00; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;41449  
 12; 4804.9; 02-FEB-2010 18:26:17; Bright; 56.0; 59; 55Alp Oph ; 2.08; 8900;occ; 112; 0;41449  
 13; 4933.3; 02-FEB-2010 18:28:25; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41449  
 14; 5327.1; 02-FEB-2010 18:34:59; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;41449  
 15; 5590.6; 02-FEB-2010 18:39:23; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;41449  
 16; 5678.9; 02-FEB-2010 18:40:51; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;41449  
 17; 6007.5; 02-FEB-2010 18:46:19; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;41449  
 18; 6160.6; 02-FEB-2010 18:48:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41449  
 19; 6244.6; 02-FEB-2010 18:50:17; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;41449  
 20; 6317.7; 02-FEB-2010 18:51:30; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41449  
 21; 6519.8; 02-FEB-2010 18:54:52; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;41449  
 22; 6646.8; 02-FEB-2010 18:56:59; Dark ; 46.0; 99; Del Cen ; 2.58; 26000;occ; 92; 0;41449  
 23; 6752.5; 02-FEB-2010 18:58:44; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41449  
 24; 6867.6; 02-FEB-2010 19:00:40; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;41449  
 25; 6971.8; 02-FEB-2010 19:02:24; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41449  
 26; 7121.8; 02-FEB-2010 19:04:54; Dark ; 14.5; 34; Gam2Vel ; 1.79; 23000;occ; 29; 0;41449



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 3; 1472.0; 02-FEB-2010 19:11:20; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;41450  
 4; 1993.4; 02-FEB-2010 19:20:01; Dark ; 50.0; 8; 10Alp CMi ; 0.40; 6500;occ; 100; 0;41450  
 5; 2390.5; 02-FEB-2010 19:26:38; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;41450  
 6; 3428.1; 02-FEB-2010 19:43:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;41450  
 7; 3607.4; 02-FEB-2010 19:46:55; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;41450  
 8; 3891.7; 02-FEB-2010 19:51:40; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;41450  
 9; 4086.7; 02-FEB-2010 19:54:55; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;41450  
 10; 4308.4; 02-FEB-2010 19:58:36; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;41450  
 11; 4805.3; 02-FEB-2010 20:06:53; Bright; 56.0; 59; 55Alp Oph ; 2.08; 8900;occ; 112; 0;41450  
 12; 4933.9; 02-FEB-2010 20:09:02; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;41450  
 13; 5327.7; 02-FEB-2010 20:15:36; Dark ; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;41450  
 14; 5591.1; 02-FEB-2010 20:19:59; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;41450  
 15; 5680.0; 02-FEB-2010 20:21:28; Dark ; 48.0; 158; 6Pi Sco ; 2.91; 28000;occ; 96; 0;41450  
 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  
 19; 6318.2; 02-FEB-2010 20:32:06; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41450  
 20; 6520.3; 02-FEB-2010 20:35:28; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;41450  
 21; 6647.9; 02-FEB-2010 20:37:36; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41450  
 22; 6752.7; 02-FEB-2010 20:39:21; Dark ; 40.0; 159; Ups Car ; 2.92; 7200;occ; 80; 0;41450  
 23; 6868.1; 02-FEB-2010 20:41:16; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41450  
 24; 6971.9; 02-FEB-2010 20:43:00; Dark ; 3.5; 46; Del Vel ; 1.95; 10600;occ; 7; 0;41450

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 9; 717.9; 03-FEB-2010 01:41:09; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41454  
 10; 833.0; 03-FEB-2010 01:43:04; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;41454  
 11; 937.0; 03-FEB-2010 01:44:49; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;41454  
 12; 1086.6; 03-FEB-2010 01:47:18; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;41454  
 13; 1211.7; 03-FEB-2010 01:49:23; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;41454  
 14; 1472.7; 03-FEB-2010 01:53:44; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;41454  
 15; 1993.6; 03-FEB-2010 02:02:25; Dark ; 46.0; 8; 10Alp CMi ; 0.40; 6500;occ; 92; 0;41454  
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 17; 3428.3; 03-FEB-2010 02:26:20; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41454  
 18; 3606.0; 03-FEB-2010 02:29:17; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;41454  
 19; 3891.1; 03-FEB-2010 02:34:03; Bright; 46.0; 119; 14Eta Dra ; 2.73; 4700;occ; 92; 0;41454  
 20; 4086.4; 03-FEB-2010 02:37:18; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41454  
 21; 4308.8; 03-FEB-2010 02:41:00; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;41454  
 22; 4806.5; 03-FEB-2010 02:49:18; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;41454  
 23; 4935.1; 03-FEB-2010 02:51:27; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41454  
 24; 5329.7; 03-FEB-2010 02:58:01; Dark ; 46.5; 86; 35Eta Oph ; 2.43; 10200;occ; 93; 0;41454  
 25; 5594.3; 03-FEB-2010 03:02:26; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;41454  
 26; 5944.5; 03-FEB-2010 03:08:16; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;41454  
 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  
 30; 6320.5; 03-FEB-2010 03:14:32; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41454  
 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  
 35; 6973.2; 03-FEB-2010 03:25:25; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;41454  
 36; 7123.0; 03-FEB-2010 03:27:54; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;41454  
 37; 7248.0; 03-FEB-2010 03:30:00; Dark ; 39.5; 70; Zet Pup ; 2.25; 39000;occ; 79; 0;41454  
 38; 7508.8; 03-FEB-2010 03:34:20; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;41454  
 39; 8029.3; 03-FEB-2010 03:43:01; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;41454  
 40; 8425.8; 03-FEB-2010 03:49:37; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;41454

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4;-1949.3; 03-FEB-2010 04:17:54; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;41455
5;-1726.8; 03-FEB-2010 04:21:37; Bright; 42.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 85; 0;41455
6;-1229.3; 03-FEB-2010 04:29:54; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;41455
7;-1100.6; 03-FEB-2010 04:32:03; Bright; 45.0; 126; 60Bet Oph ; 2.77; 4250;occ; 90; 0;41455
8; -705.7; 03-FEB-2010 04:38:38; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;41455
9; -440.8; 03-FEB-2010 04:43:03; Dark ; 56.5; 16; 21Alp Sco ; 1.02; 3000;occ; 113; 0;41455
10; -351.3; 03-FEB-2010 04:44:32; Dark ; 48.0; 158; 6Pi Sco ; 2.91; 28000;occ; 96; 0;41455
11; -90.8; 03-FEB-2010 04:48:53; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;41455
12; 46.2; 03-FEB-2010 04:51:10; Dark ; 44.5; 109; Bet Lup ; 2.68; 26000;occ; 89; 0;41456
13; 212.0; 03-FEB-2010 04:53:55; Dark ; 56.0; 4; Alp1Cen ;-0.01; 5800;occ; 112; 0;41456
14; 285.3; 03-FEB-2010 04:55:09; Dark ; 50.0; 10; Bet Cen ; 0.61; 28000;occ; 100; 0;41456
15; 486.8; 03-FEB-2010 04:58:30; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;41456
16; 615.8; 03-FEB-2010 05:00:39; Dark ; 51.0; 99; Del Cen ; 2.58; 26000;occ; 102; 0;41456
17; 718.4; 03-FEB-2010 05:02:22; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41456
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19; 937.6; 03-FEB-2010 05:06:01; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;41456
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22; 1473.1; 03-FEB-2010 05:14:56; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;41456
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26; 3605.8; 03-FEB-2010 05:50:29; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;41456
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7; -440.3; 03-FEB-2010 06:23:39; Dark ; 48.5; 16; 21Alp Sco ; 1.02; 3000;occ; 97; 0;41456
8; -350.5; 03-FEB-2010 06:25:09; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;41456
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11; 285.9; 03-FEB-2010 06:35:45; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41457
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13; 616.6; 03-FEB-2010 06:41:16; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;41457
14; 719.0; 03-FEB-2010 06:42:58; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;41457
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4; 1474.8; 03-FEB-2010 20:20:22; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;41465
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5; 481.2; 05-FEB-2010 22:21:45; Dark ; 47.0; 20; Bet Cru ; 1.25; 30000;occ; 94; 0;41495
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13; 4819.6; 05-FEB-2010 23:34:04; Bright; 57.0; 59; 55Alp Oph ; 2.08; 8900;occ; 114; 0;41495
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6; 565.6; 06-FEB-2010 00:03:46; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;41496
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
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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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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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3; 3881.6; 06-FEB-2010 09:22:01; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;41501  
4; 4084.9; 06-FEB-2010 09:25:25; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;41501  
5; 4821.8; 06-FEB-2010 09:37:42; Bright; 58.0; 59; 55Alp Oph ; 2.08; 8900;occ; 116; 0;41501  
6; 4951.9; 06-FEB-2010 09:39:52; Bright; 41.5; 126; 60Bet Oph ; 2.77; 4250;occ; 83; 0;41501  
7; 5356.9; 06-FEB-2010 09:46:37; Dark ; 49.0; 86; 35Eta Oph ; 2.43; 10200;occ; 98; 0;41501  
8; 5731.4; 06-FEB-2010 09:52:51; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;41501  
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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8; 3876.2; 07-FEB-2010 23:55:42; Bright; 45.5; 119; 14Eta Dra ; 2.73; 4700;occ; 91; 0;41524
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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4; -670.8; 07-FEB-2010 07:34:32; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;41514
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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9; 321.1; 07-FEB-2010 07:51:04; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41515
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6; 4084.1; 07-FEB-2010 08:53:47; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;41515
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8; 4957.3; 07-FEB-2010 09:08:20; Bright; 44.0; 126; 60Bet Oph ; 2.77; 4250;occ; 88; 0;41515
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11; 5846.8; 07-FEB-2010 09:23:09; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;41515
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13; 6357.6; 07-FEB-2010 09:31:40; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41515
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4; 4083.3; 08-FEB-2010 10:02:45; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;41530
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4; 2385.4; 12-FEB-2010 15:50:58; Bright; 38.5; 17; 78Bet Gem ; 1.16; 4500;occ; 77; 0;41591  
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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  
14; 5689.7; 12-FEB-2010 16:46:02; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;41591  
15; 5876.3; 12-FEB-2010 16:49:09; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;41591  
16; 5964.7; 12-FEB-2010 16:50:37; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;41591  
17; 6071.0; 12-FEB-2010 16:52:23; Dark ; 46.0; 131; Gam Lup ; 2.80; 26000;occ; 92; 0;41591  
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19; 6593.8; 12-FEB-2010 17:01:06; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;41591  
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21; 6968.9; 12-FEB-2010 17:07:21; Dark ; 40.0; 91; Kap Vel ; 2.49; 26000;occ; 80; 0;41591  
22; 7167.7; 12-FEB-2010 17:10:40; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;41591

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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  
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9; 5420.0; 12-FEB-2010 18:22:08; Dark ; 52.0; 86; 35Eta Oph ; 2.43; 10200;occ; 104; 0;41592  
10; 5569.1; 12-FEB-2010 18:24:37; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;41592  
11; 5690.2; 12-FEB-2010 18:26:38; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41592  
12; 5769.0; 12-FEB-2010 18:27:57; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;41592  
13; 5876.6; 12-FEB-2010 18:29:45; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;41592  
14; 5965.0; 12-FEB-2010 18:31:13; Dark ; 48.5; 141; Bet Ara ; 2.84; 4600;occ; 97; 0;41592  
15; 6072.0; 12-FEB-2010 18:33:00; Dark ; 46.0; 131; Gam Lup ; 2.80; 26000;occ; 92; 0;41592  
16; 6266.3; 12-FEB-2010 18:36:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41592  
17; 6405.0; 12-FEB-2010 18:38:33; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;41592  
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19; 6682.5; 12-FEB-2010 18:43:11; Dark ; 52.5; 64; Gam Cen ; 2.20; 10600;occ; 105; 0;41592  
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3; 2385.4; 12-FEB-2010 19:12:10; Bright; 39.0; 17; 78Bet Gem ; 1.16; 4500;occ; 78; 0;41593  
4; 3430.0; 12-FEB-2010 19:29:34; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41593  
5; 3567.5; 12-FEB-2010 19:31:52; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41593  
6; 3858.9; 12-FEB-2010 19:36:43; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;41593  
7; 4078.0; 12-FEB-2010 19:40:22; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41593  
8; 4325.0; 12-FEB-2010 19:44:29; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;41593  
9; 4735.6; 12-FEB-2010 19:51:20; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41593  
10; 5420.6; 12-FEB-2010 20:02:45; Dark ; 46.5; 86; 35Eta Oph ; 2.43; 10200;occ; 93; 0;41593  
11; 5569.7; 12-FEB-2010 20:05:14; Dark ; 44.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 88; 0;41593  
12; 5690.6; 12-FEB-2010 20:07:15; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;41593  
13; 5769.4; 12-FEB-2010 20:08:34; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;41593  
14; 5877.2; 12-FEB-2010 20:10:21; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;41593  
15; 5965.4; 12-FEB-2010 20:11:50; Dark ; 48.5; 141; Bet Ara ; 2.84; 4600;occ; 97; 0;41593  
16; 6072.9; 12-FEB-2010 20:13:37; Dark ; 45.5; 131; Gam Lup ; 2.80; 26000;occ; 91; 0;41593  
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18; 6405.5; 12-FEB-2010 20:19:10; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;41593  
19; 6594.3; 12-FEB-2010 20:22:19; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;41593  
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21; 6969.1; 12-FEB-2010 20:28:33; Dark ; 42.0; 91; Kap Vel ; 2.49; 26000;occ; 84; 0;41593

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13; 3430.0; 13-FEB-2010 02:11:58; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;41597
14; 3566.6; 13-FEB-2010 02:14:14; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;41597
15; 3857.7; 13-FEB-2010 02:19:06; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;41597
16; 4077.7; 13-FEB-2010 02:22:46; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41597
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18; 4325.2; 13-FEB-2010 02:26:53; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;41597
19; 4736.1; 13-FEB-2010 02:33:44; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;41597
20; 4858.3; 13-FEB-2010 02:35:46; Bright; 48.5; 59; 55Alp Oph ; 2.08; 8900;occ; 97; 0;41597
21; 4993.0; 13-FEB-2010 02:38:01; Bright; 47.0; 126; 60Bet Oph ; 2.77; 4250;occ; 94; 0;41597
22; 5423.6; 13-FEB-2010 02:45:11; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;41597
23; 5570.8; 13-FEB-2010 02:47:39; Dark ; 42.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 84; 0;41597
24; 5692.7; 13-FEB-2010 02:49:41; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41597
25; 5771.7; 13-FEB-2010 02:50:59; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;41597
26; 5966.9; 13-FEB-2010 02:54:15; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;41597
27; 6076.8; 13-FEB-2010 02:56:05; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;41597
28; 6270.1; 13-FEB-2010 02:59:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41597
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30; 6596.4; 13-FEB-2010 03:04:44; Dark ; 54.5; 12; Alp1Cru ; 0.77; 30000;occ; 109; 0;41597
31; 6686.1; 13-FEB-2010 03:06:14; Dark ; 55.5; 64; Gam Cen ; 2.20; 10600;occ; 111; 0;41597
32; 6970.4; 13-FEB-2010 03:10:58; Dark ; 39.0; 91; Kap Vel ; 2.49; 26000;occ; 78; 0;41597
33; 7169.2; 13-FEB-2010 03:14:17; Dark ; 49.5; 65; Lam Vel ; 2.20; 4400;occ; 99; 0;41597
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2;-2178.5; 13-FEB-2010 03:59:41; Bright; 31.0; 119; 14Eta Dra ; 2.73; 4700;occ; 62; 0;41598
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5;-1710.3; 13-FEB-2010 04:07:29; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41598
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13; 41.8; 13-FEB-2010 04:36:41; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;41599
14; 234.9; 13-FEB-2010 04:39:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41599
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19; 2385.7; 13-FEB-2010 05:15:45; Bright; 39.0; 17; 78Bet Gem ; 1.16; 4500;occ; 78; 0;41599
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3;-1710.3; 13-FEB-2010 05:48:05; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41599
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9; -341.9; 13-FEB-2010 06:10:54; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41599
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13; 43.0; 13-FEB-2010 06:17:19; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;41600
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20; 6613.1; 15-FEB-2010 10:24:46; Dark ; 48.0; 12; Alp1Cru ; 0.77; 30000;occ; 96; 0;41630  
21; 6711.9; 15-FEB-2010 10:26:25; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;41630  
22; 6978.9; 15-FEB-2010 10:30:52; Dark ; 36.5; 91; Kap Vel ; 2.49; 26000;occ; 73; 0;41630  
23; 7177.6; 15-FEB-2010 10:34:11; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;41630  
24; 7775.7; 15-FEB-2010 10:44:09; Dark ; 0.0; 48; 30Alp Hya ; 1.98; 4100;occ; 86; 0;41630

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3; 3556.2; 15-FEB-2010 11:14:25; Bright; 45.0; 60; 7Bet UMi ; 2.08; 3950;occ; 90; 0;41631  
4; 4074.1; 15-FEB-2010 11:23:03; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;41631  
5; 4192.4; 15-FEB-2010 11:25:01; Bright; 34.0; 144; 18Del Cyg ; 2.86; 11000;occ; 68; 0;41631  
6; 4328.6; 15-FEB-2010 11:27:18; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;41631  
7; 4743.6; 15-FEB-2010 11:34:13; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;41631  
8; 5010.2; 15-FEB-2010 11:38:39; Dark ; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;41631  
9; 5451.7; 15-FEB-2010 11:46:01; Dark ; 52.0; 86; 35Eta Oph ; 2.43; 10200;occ; 104; 0;41631  
10; 5583.0; 15-FEB-2010 11:48:12; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;41631  
11; 5711.6; 15-FEB-2010 11:50:21; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;41631  
12; 5788.1; 15-FEB-2010 11:51:37; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;41631  
13; 5893.8; 15-FEB-2010 11:53:23; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;41631  
14; 5980.5; 15-FEB-2010 11:54:50; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;41631  
15; 6111.4; 15-FEB-2010 11:57:00; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;41631  
16; 6215.4; 15-FEB-2010 11:58:44; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;41631  
17; 6296.0; 15-FEB-2010 12:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41631  
18; 6429.1; 15-FEB-2010 12:02:18; Dark ; 47.0; 10; Bet Cen ; 0.61; 28000;occ; 94; 0;41631  
19; 6510.3; 15-FEB-2010 12:03:39; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41631  
20; 6613.4; 15-FEB-2010 12:05:22; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;41631  
21; 6712.7; 15-FEB-2010 12:07:02; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41631  
22; 6979.2; 15-FEB-2010 12:11:28; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;41631  
23; 7178.1; 15-FEB-2010 12:14:47; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;41631

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2; 2388.3; 15-FEB-2010 12:35:33; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;41632  
3; 3555.9; 15-FEB-2010 12:55:01; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;41632  
4; 4074.1; 15-FEB-2010 13:03:39; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41632  
5; 4192.5; 15-FEB-2010 13:05:37; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;41632  
6; 4328.7; 15-FEB-2010 13:07:54; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;41632  
7; 4744.1; 15-FEB-2010 13:14:49; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41632  
8; 5010.9; 15-FEB-2010 13:19:16; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;41632  
9; 5452.6; 15-FEB-2010 13:26:37; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;41632  
10; 5583.7; 15-FEB-2010 13:28:49; Dark ; 41.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 82; 0;41632  
11; 5712.4; 15-FEB-2010 13:30:57; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;41632  
12; 5788.7; 15-FEB-2010 13:32:14; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;41632  
13; 5894.4; 15-FEB-2010 13:33:59; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;41632  
14; 5981.0; 15-FEB-2010 13:35:26; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;41632  
15; 6112.8; 15-FEB-2010 13:37:38; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;41632  
16; 6216.1; 15-FEB-2010 13:39:21; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;41632  
17; 6296.8; 15-FEB-2010 13:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41632  
18; 6429.9; 15-FEB-2010 13:42:55; Dark ; 51.5; 10; Bet Cen ; 0.61; 28000;occ; 103; 0;41632  
19; 6511.0; 15-FEB-2010 13:44:16; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;41632  
20; 6613.9; 15-FEB-2010 13:45:59; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;41632  
21; 6979.5; 15-FEB-2010 13:52:04; Dark ; 39.0; 91; Kap Vel ; 2.49; 26000;occ; 78; 0;41632  
22; 7178.4; 15-FEB-2010 13:55:23; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;41632

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3; 3556.1; 15-FEB-2010 14:35:37; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;41633  
4; 4073.8; 15-FEB-2010 14:44:15; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;41633  
5; 4192.8; 15-FEB-2010 14:46:14; Bright; 33.5; 144; 18Del Cyg ; 2.86; 11000;occ; 67; 0;41633  
6; 4328.9; 15-FEB-2010 14:48:30; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;41633  
7; 4744.1; 15-FEB-2010 14:55:25; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;41633  
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9; 5583.9; 15-FEB-2010 15:09:25; Dark ; 43.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 86; 0;41633  
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11; 5789.2; 15-FEB-2010 15:12:50; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;41633  
12; 5894.8; 15-FEB-2010 15:14:36; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;41633  
13; 5981.5; 15-FEB-2010 15:16:02; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;41633  
14; 6089.0; 15-FEB-2010 15:17:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41633  
15; 6216.5; 15-FEB-2010 15:19:57; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;41633  
16; 6351.4; 15-FEB-2010 15:22:12; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;41633  
17; 6430.3; 15-FEB-2010 15:23:31; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41633  
18; 6511.9; 15-FEB-2010 15:24:53; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41633  
19; 6714.3; 15-FEB-2010 15:28:15; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;41633  
20; 6959.5; 15-FEB-2010 15:32:20; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;41633  
21; 7178.3; 15-FEB-2010 15:35:59; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;41633

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3; 3555.8; 15-FEB-2010 16:16:12; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;41634  
4; 4073.8; 15-FEB-2010 16:24:51; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;41634  
5; 4193.2; 15-FEB-2010 16:26:50; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;41634  
6; 4329.0; 15-FEB-2010 16:29:06; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;41634  
7; 4744.7; 15-FEB-2010 16:36:01; Bright; 52.0; 168; 17Zet Aql ; 2.99; 11000;occ; 104; 0;41634  
8; 5012.0; 15-FEB-2010 16:40:29; Dark ; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;41634  
9; 5454.3; 15-FEB-2010 16:47:51; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;41634  
10; 5584.3; 15-FEB-2010 16:50:01; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;41634  
11; 5713.5; 15-FEB-2010 16:52:10; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;41634  
12; 5789.8; 15-FEB-2010 16:53:27; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;41634  
13; 5895.6; 15-FEB-2010 16:55:12; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;41634  
14; 5981.9; 15-FEB-2010 16:56:39; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;41634  
15; 6089.6; 15-FEB-2010 16:58:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41634  
16; 6217.1; 15-FEB-2010 17:00:34; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;41634  
17; 6352.3; 15-FEB-2010 17:02:49; Dark ; 49.5; 4; Alp1Cen ; -0.01; 5800;occ; 99; 0;41634  
18; 6431.3; 15-FEB-2010 17:04:08; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41634  
19; 6512.6; 15-FEB-2010 17:05:29; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41634  
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21; 6960.1; 15-FEB-2010 17:12:57; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;41634

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5; 4073.7; 15-FEB-2010 18:05:26; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41635
6; 4329.0; 15-FEB-2010 18:09:42; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;41635
7; 4744.9; 15-FEB-2010 18:16:38; Bright; 52.0; 168; 17Zet Aql ; 2.99; 11000;occ; 104; 0;41635
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9; 5455.1; 15-FEB-2010 18:28:28; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;41635
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11; 5714.2; 15-FEB-2010 18:32:47; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;41635
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13; 5895.8; 15-FEB-2010 18:35:48; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;41635
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3; 3550.3; 16-FEB-2010 20:46:18; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;41651
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
6; 5021.1; 16-FEB-2010 21:10:49; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;41651
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3; 326.1; 16-FEB-2010 21:33:09; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;41652
4; 405.3; 16-FEB-2010 21:34:29; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;41652
5; 489.9; 16-FEB-2010 21:35:53; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;41652
6; 587.3; 16-FEB-2010 21:37:31; Dark ; 48.0; 12; Alp1Cru ; 0.77; 30000;occ; 96; 0;41652
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
9; 1740.3; 16-FEB-2010 21:56:44; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;41652
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12; 4330.5; 16-FEB-2010 22:39:54; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;41652
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3; 326.9; 16-FEB-2010 23:13:46; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41653
4; 406.0; 16-FEB-2010 23:15:05; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;41653
5; 490.5; 16-FEB-2010 23:16:30; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41653
6; 587.8; 16-FEB-2010 23:18:07; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;41653
7; 692.8; 16-FEB-2010 23:19:52; Dark ; 52.5; 64; Gam Cen ; 2.20; 10600;occ; 105; 0;41653
8; 931.9; 16-FEB-2010 23:23:51; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;41653
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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12; 4330.6; 17-FEB-2010 00:20:30; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41653
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3; 402.5; 16-FEB-2010 11:30:50; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41646
4; 485.8; 16-FEB-2010 11:32:14; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41646
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7; 929.9; 16-FEB-2010 11:39:38; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;41646
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4; 4329.9; 16-FEB-2010 12:36:18; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41646
5; 5018.7; 16-FEB-2010 12:47:46; Dark ; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;41646

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3; 4072.5; 16-FEB-2010 14:12:36; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41647
4; 4330.5; 16-FEB-2010 14:16:54; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41647
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6; 5721.4; 16-FEB-2010 14:40:05; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 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
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6; 5443.1; 16-FEB-2010 16:16:03; Dark ; 41.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 82; 0;41648
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8; 5721.8; 16-FEB-2010 16:20:41; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41648
9; 6096.5; 16-FEB-2010 16:26:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
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6; 5590.1; 16-FEB-2010 17:59:06; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;41649
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11; 6622.8; 16-FEB-2010 19:56:54; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;41650
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4; 406.6; 17-FEB-2010 00:55:42; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;41654
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4; 4331.8; 17-FEB-2010 22:08:18; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 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
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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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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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4; 4331.0; 17-FEB-2010 13:45:18; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;41661
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12; 6629.1; 17-FEB-2010 17:44:48; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;41663
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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
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8; 713.8; 18-FEB-2010 22:16:59; Dark ; 50.5; 64; Gam Cen ; 2.20; 10600;occ; 101; 0;41681
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8; 714.5; 18-FEB-2010 23:57:36; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;41682
9; 944.5; 19-FEB-2010 00:01:26; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41682
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5; 71.7; 18-FEB-2010 07:00:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41672
6; 338.5; 18-FEB-2010 07:05:21; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;41672
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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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
9; 6541.9; 18-FEB-2010 08:48:44; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;41672
10; 6633.5; 18-FEB-2010 08:50:16; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;41672
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3; 4068.8; 18-FEB-2010 09:48:07; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41673
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8; 6375.7; 18-FEB-2010 10:26:34; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 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
13; 6977.0; 18-FEB-2010 10:36:35; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;41673
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3; 4068.4; 18-FEB-2010 11:28:42; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41674
4; 4332.2; 18-FEB-2010 11:33:06; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41674

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6; 5820.9; 18-FEB-2010 11:57:55; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;41674
7; 6109.0; 18-FEB-2010 12:02:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41674
8; 6376.3; 18-FEB-2010 12:07:10; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;41674
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6; 5821.9; 18-FEB-2010 13:38:32; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;41675
7; 6109.6; 18-FEB-2010 13:43:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41675
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9; 6456.2; 18-FEB-2010 13:49:06; Dark ; 51.5; 10; Bet Cen ; 0.61; 28000;occ; 103; 0;41675
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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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8; 6377.4; 18-FEB-2010 15:28:23; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41676
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3; 4067.8; 18-FEB-2010 18:11:05; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 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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4; 3536.8; 19-FEB-2010 20:51:49; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;41694
5; 4065.5; 19-FEB-2010 21:00:38; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41694
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4; -196.7; 19-FEB-2010 21:30:12; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;41694
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13; 3431.4; 19-FEB-2010 22:30:40; Bright; 52.0; 49; 1Alp UMi ; 1.99; 6300;occ; 104; 0;41695
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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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11; 946.2; 19-FEB-2010 06:43:51; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;41686
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4; 4333.0; 19-FEB-2010 09:20:54; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;41687
5; 4757.5; 19-FEB-2010 09:27:59; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;41687
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7; 5832.7; 19-FEB-2010 09:45:54; Dark ; 61.0; 75; 26Eps Sco ; 2.29; 4250;occ; 122; 0;41687
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3; 4066.4; 19-FEB-2010 10:57:03; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41688
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5; 4757.1; 19-FEB-2010 11:08:34; Bright; 53.0; 168; 17Zet Aql ; 2.99; 11000;occ; 106; 0;41688
6; 5746.8; 19-FEB-2010 11:25:04; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;41688
7; 5833.5; 19-FEB-2010 11:26:30; Dark ; 56.0; 75; 26Eps Sco ; 2.29; 4250;occ; 112; 0;41688
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11; 6554.2; 19-FEB-2010 11:38:31; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41688
12; 6640.9; 19-FEB-2010 11:39:58; Dark ; 38.0; 12; Alp1Cru ; 0.77; 30000;occ; 76; 0;41688
13; 6755.6; 19-FEB-2010 11:41:53; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41688
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5; 4757.7; 19-FEB-2010 12:49:10; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41689
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7; 5834.7; 19-FEB-2010 13:07:07; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;41689
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 5; 4757.9; 19-FEB-2010 14:29:47; Bright; 35.5; 168; 17Zet Aql ; 2.99; 11000;occ; 71; 0;41690  
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 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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 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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 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  
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 13; 6119.5; 19-FEB-2010 19:54:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41693  
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 16; 6643.2; 19-FEB-2010 20:03:00; Dark ; 54.0; 12; Alp1Cru ; 0.77; 30000;occ; 108; 0;41693  
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3; 3534.1; 20-FEB-2010 10:16:34; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41702
4; 4092.5; 20-FEB-2010 10:25:52; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 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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3; 107.5; 22-FEB-2010 23:21:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41739
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14; 5514.5; 26-FEB-2010 12:41:41; Dark ; 46.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 92; 0;41789  
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