

GOMOS Daily Report 02-FEB-2010

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

[4. Dark Charge monitoring](#)

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

[4.2 Plot of Dark Charge](#)

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

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

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

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

[6. Star tangent altitude lost](#)

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

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

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

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

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

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

[7.2 SATU Noise Equivalent Angle statistics](#)

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

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

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

[Level 2 products](#)

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	05FEB2010 04:47:46
Data source version	GOMOS/5.00L04
Start time of products	02FEB2010 00:01:47
Stop time of products	02FEB2010 23:58:49
Store outputs in DB	Yes
Nb of level 1b prods	68
Nb of prods with errors	0

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

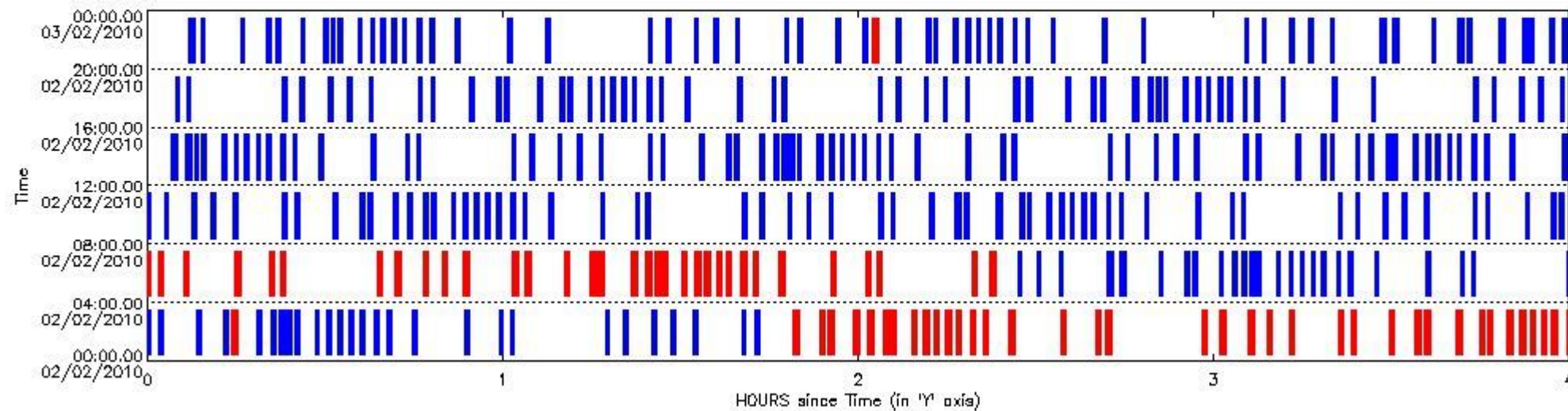
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

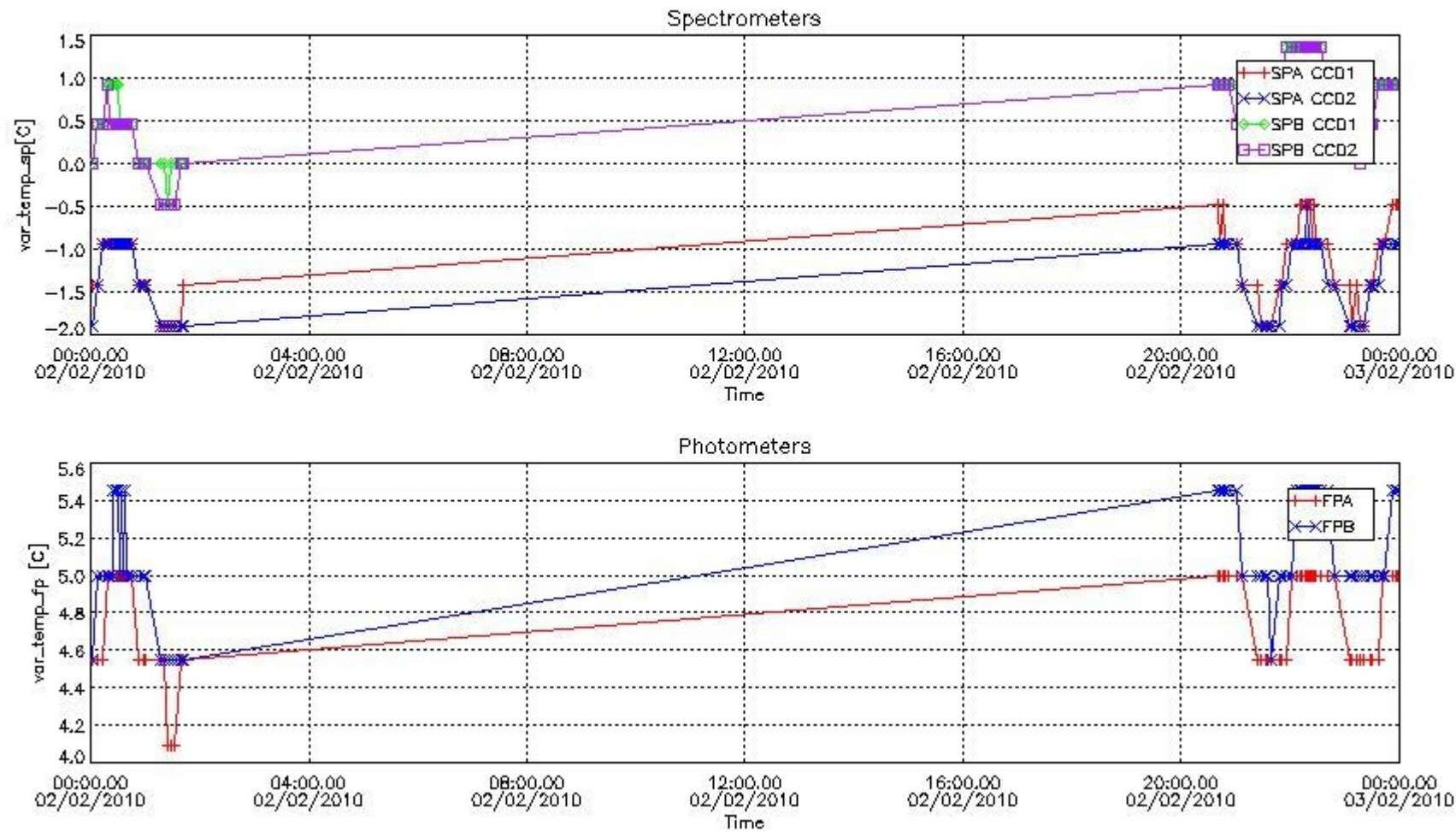
UTC start time	Star name	Star ID	Orbit
02-FEB-2010 00:14:12	6PiSco	158	41438
02-FEB-2010 01:49:01	35EtaOph	86	41439
02-FEB-2010 01:53:22	21AlpSco	16	41439
02-FEB-2010 01:54:48	6PiSco	158	41439
02-FEB-2010 01:59:11	GamLup	131	41439
02-FEB-2010 02:01:26	BetLup	109	41440
02-FEB-2010 02:04:18	Alp1Cen	4	41440
02-FEB-2010 02:05:31	BetCen	10	41440
02-FEB-2010 02:08:53	Alp1Cru	12	41440
02-FEB-2010 02:10:58	DelCen	99	41440
02-FEB-2010 02:12:48	UpsCar	159	41440
02-FEB-2010 02:14:43	IotCar	71	41440
02-FEB-2010 02:16:28	DelVel	46	41440
02-FEB-2010 02:18:59	Gam2Vel	34	41440
02-FEB-2010 02:21:04	ZetPup	70	41440

02-FEB-2010 02:25:25	15RhoPup	132	41440
02-FEB-2010 02:34:08	10AlpCMi	8	41440
02-FEB-2010 02:39:58	27EpsGem	170	41440
02-FEB-2010 02:41:49	66AlpGem	24	41440
02-FEB-2010 02:58:03	1AlpUMi	49	41440
02-FEB-2010 03:01:05	7BetUMi	60	41440
02-FEB-2010 03:05:49	14EtaDra	119	41440
02-FEB-2010 03:09:02	23BetDra	130	41440
02-FEB-2010 03:12:42	3AlpLyr	5	41440
02-FEB-2010 03:20:57	55AlpOph	59	41440
02-FEB-2010 03:23:05	60BetOph	126	41440
02-FEB-2010 03:29:37	35EtaOph	86	41440
02-FEB-2010 03:33:59	21AlpSco	16	41440
02-FEB-2010 03:35:25	6PiSco	158	41440
02-FEB-2010 03:40:59	DSA1025	0	41440
02-FEB-2010 03:44:54	Alp1Cen	4	41441
02-FEB-2010 03:46:07	BetCen	10	41441
02-FEB-2010 03:49:30	Alp1Cru	12	41441
02-FEB-2010 03:51:35	DelCen	99	41441
02-FEB-2010 03:53:25	UpsCar	159	41441
02-FEB-2010 03:55:20	lotCar	71	41441
02-FEB-2010 03:57:04	DelVel	46	41441
02-FEB-2010 03:59:35	Gam2Vel	34	41441
02-FEB-2010 04:01:40	ZetPup	70	41441
02-FEB-2010 04:06:01	15RhoPup	132	41441
02-FEB-2010 04:14:44	10AlpCMi	8	41441
02-FEB-2010 04:20:34	27EpsGem	170	41441
02-FEB-2010 04:22:25	66AlpGem	24	41441
02-FEB-2010 04:38:39	1AlpUMi	49	41441
02-FEB-2010 04:41:40	7BetUMi	60	41441
02-FEB-2010 04:46:24	14EtaDra	119	41441
02-FEB-2010 04:49:38	23BetDra	130	41441
02-FEB-2010 04:53:18	3AlpLyr	5	41441
02-FEB-2010 05:01:33	55AlpOph	59	41441
02-FEB-2010 05:03:42	60BetOph	126	41441
02-FEB-2010 05:10:13	35EtaOph	86	41441
02-FEB-2010 05:14:35	21AlpSco	16	41441
02-FEB-2010 05:16:02	6PiSco	158	41441
02-FEB-2010 05:21:35	DSA1025	0	41441
02-FEB-2010 05:24:06	DSA1027	0	41442
02-FEB-2010 05:25:31	Alp1Cen	4	41442
02-FEB-2010 05:26:44	BetCen	10	41442
02-FEB-2010 05:30:06	Alp1Cru	12	41442
02-FEB-2010 05:32:12	DelCen	99	41442
02-FEB-2010 05:34:01	UpsCar	159	41442
02-FEB-2010 05:35:56	lotCar	71	41442
02-FEB-2010 05:37:40	DelVel	46	41442
02-FEB-2010 05:40:11	Gam2Vel	34	41442
02-FEB-2010 05:42:16	ZetPup	70	41442
02-FEB-2010 05:46:37	15RhoPup	132	41442
02-FEB-2010 05:55:20	10AlpCMi	8	41442
02-FEB-2010 06:01:10	27EpsGem	170	41442
02-FEB-2010 06:03:01	66AlpGem	24	41442
02-FEB-2010 06:19:15	1AlpUMi	49	41442
02-FEB-2010 06:22:16	7BetUMi	60	41442
02-FEB-2010 22:02:11	6PiSco	158	41451

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100202_000147_000000542086_00302_41438_8185.N1	02-FEB-2010 00:01:47	Bright	54.000	126	60Bet Oph	2.7700	4250.0	108	41438	No
2	GOM_TRA_1PNPDE20100202_000818_000000432086_00302_41438_8179.N1	02-FEB-2010 00:08:18	Twilight	42.500	86	35Eta Oph	2.4300	10200.	85	41438	No
3	GOM_TRA_1PNPDE20100202_001239_000000602086_00302_41438_8180.N1	02-FEB-2010 00:12:39	Dark	60.000	16	21Alp Sco	1.0200	3000.0	120	41438	No
4	GOM_TRA_1PNPDE20100202_001828_000000432086_00302_41438_8181.N1	02-FEB-2010 00:18:28	Dark	42.500	131	Gam Lup	2.8000	26000.	85	41438	No
5	GOM_TRA_1PNPDE20100202_002043_000000452086_00303_41439_8182.N1	02-FEB-2010 00:20:43	Dark	45.000	109	Bet Lup	2.6770	26000.	90	41439	No
6	GOM_TRA_1PNPDE20100202_002335_000000472086_00303_41439_8183.N1	02-FEB-2010 00:23:35	Dark	47.000	4	Alp1Cen	-0.010000	5800.0	94	41439	No
7	GOM_TRA_1PNPDE20100202_002448_000000512086_00303_41439_8184.N1	02-FEB-2010 00:24:48	Dark	50.500	10	Bet Cen	0.61000	28000.	101	41439	No
8	GOM_TRA_1PNPDE20100202_002811_000000432086_00303_41439_8185.N1	02-FEB-2010 00:28:11	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	41439	No
9	GOM_TRA_1PNPDE20100202_003015_000000442086_00303_41439_8186.N1	02-FEB-2010 00:30:15	Dark	44.000	99	Del Cen	2.5750	26000.	88	41439	No
10	GOM_TRA_1PNPDE20100202_003206_000000432086_00303_41439_8187.N1	02-FEB-2010 00:32:06	Dark	42.500	159	Ups Car	2.9200	7200.0	85	41439	No
11	GOM_TRA_1PNPDE20100202_003401_000000392086_00303_41439_8188.N1	02-FEB-2010 00:34:01	Dark	38.500	71	lot Car	2.2460	7700.0	77	41439	No
12	GOM_TRA_1PNPDE20100202_003545_000000432086_00303_41439_8189.N1	02-FEB-2010 00:35:45	Dark	42.500	46	Del Vel	1.9540	10600.	85	41439	No
13	GOM_TRA_1PNPDE20100202_003816_000000422086_00303_41439_8190.N1	02-FEB-2010 00:38:16	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	41439	No
14	GOM_TRA_1PNPDE20100202_004021_000000412086_00303_41439_8191.N1	02-FEB-2010 00:40:21	Straylight	40.500	70	Zet Pup	2.2460	39000.	81	41439	No
15	GOM_TRA_1PNPDE20100202_004442_000000412086_00303_41439_8192.N1	02-FEB-2010 00:44:42	Straylight	40.500	132	15Rho Pup	2.8030	6900.0	81	41439	No
16	GOM_TRA_1PNPDE20100202_005326_000000442086_00303_41439_8193.N1	02-FEB-2010 00:53:26	Twilight	43.500	8	10Alp CMi	0.40000	6500.0	87	41439	No
17	GOM_TRA_1PNPDE20100202_005916_000000372086_00303_41439_8194.N1	02-FEB-2010 00:59:16	Bright	37.000	170	27Eps Gem	3.0000	9700.0	74	41439	No
18	GOM_TRA_1PNPDE20100202_010107_000000402086_00303_41439_8195.N1	02-FEB-2010 01:01:07	Bright	39.500	24	66Alp Gem	1.5800	10200.	79	41439	No
19	GOM_TRA_1PNPDE20100202_011721_000000382086_00303_41439_8196.N1	02-FEB-2010 01:17:21	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	41439	No
20	GOM_TRA_1PNPDE20100202_012023_000000422086_00303_41439_8197.N1	02-FEB-2010 01:20:23	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	41439	No
21	GOM_TRA_1PNPDE20100202_012506_000000442086_00303_41439_8198.N1	02-FEB-2010 01:25:06	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	41439	No
22	GOM_TRA_1PNPDE20100202_012819_000000422086_00303_41439_8199.N1	02-FEB-2010 01:28:19	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	41439	No
23	GOM_TRA_1PNPDE20100202_013200_000000522086_00303_41439_8200.N1	02-FEB-2010 01:32:00	Bright	51.500	5	3Alp Lyr	0.033000	11000.	103	41439	No
24	GOM_TRA_1PNPDE20100202_014014_000000402086_00303_41439_8201.N1	02-FEB-2010 01:40:14	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	41439	No
25	GOM_TRA_1PNPDE20100202_014223_000000542086_00303_41439_8202.N1	02-FEB-2010 01:42:23	Bright	53.500	126	60Bet Oph	2.7700	4250.0	107	41439	No
26	GOM_TRA_1PNPDE20100202_204116_000000422086_00315_41451_8272.N1	02-FEB-2010 20:41:16	Dark	42.000	71	lot Car	2.2460	7700.0	84	41451	No
27	GOM_TRA_1PNPDE20100202_204300_000000392086_00315_41451_8273.N1	02-FEB-2010 20:43:00	Dark	39.000	46	Del Vel	1.9540	10600.	78	41451	No
28	GOM_TRA_1PNPDE20100202_204530_000000422086_00315_41451_8274.N1	02-FEB-2010 20:45:30	Straylight	42.000	34	Gam2Vel	1.7930	23000.	84	41451	No
29	GOM_TRA_1PNPDE20100202_204735_000000412086_00315_41451_8275.N1	02-FEB-2010 20:47:35	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	41451	No
30	GOM_TRA_1PNPDE20100202_205156_000000422086_00315_41451_8276.N1	02-FEB-2010 20:51:56	Straylight	42.000	132	15Rho Pup	2.8030	6900.0	84	41451	No
31	GOM_TRA_1PNPDE20100202_210037_000000482086_00315_41451_8277.N1	02-FEB-2010 21:00:37	Twilight	47.500	8	10Alp CMi	0.40000	6500.0	95	41451	No
32	GOM_TRA_1PNPDE20100202_210714_000000412086_00315_41451_8278.N1	02-FEB-2010 21:07:14	Bright	40.500	17	78Bet Gem	1.1610	4500.0	81	41451	No
33	GOM_TRA_1PNPDE20100202_212432_000000342086_00315_41451_8279.N1	02-FEB-2010 21:24:32	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	41451	No
34	GOM_TRA_1PNPDE20100202_212731_000000422086_00315_41451_8280.N1	02-FEB-2010 21:27:31	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	41451	No
35	GOM_TRA_1PNPDE20100202_213216_000000412086_00315_41451_8281.N1	02-FEB-2010 21:32:16	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	41451	No
36	GOM_TRA_1PNPDE20100202_213530_000000422086_00315_41451_8282.N1	02-FEB-2010 21:35:30	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	41451	No
37	GOM_TRA_1PNPDE20100202_213912_000000392086_00315_41451_8283.N1	02-FEB-2010 21:39:12	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	41451	No
38	GOM_TRA_1PNPDE20100202_214729_000000442086_00315_41451_8284.N1	02-FEB-2010 21:47:29	Bright	44.000	59	55Alp Oph	2.0800	8900.0	88	41451	No
39	GOM_TRA_1PNPDE20100202_214938_000000552086_00315_41451_8285.N1	02-FEB-2010 21:49:38	Bright	55.000	126	60Bet Oph	2.7700	4250.0	110	41451	No
40	GOM_TRA_1PNPDE20100202_215612_000000332086_00315_41451_8286.N1	02-FEB-2010 21:56:12	Twilight	32.500	86	35Eta Oph	2.4300	10200.	65	41451	No
41	GOM_TRA_1PNPDE20100202_220036_000000522086_00315_41451_8323.N1	02-FEB-2010 22:00:36	Dark	51.500	16	21Alp Sco	1.0200	3000.0	103	41451	No
42	GOM_TRA_1PNPDE20100202_220626_000000442086_00315_41451_8324.N1	02-FEB-2010 22:06:26	Dark	43.500	131	Gam Lup	2.8000	26000.	87	41451	No
43	GOM_TRA_1PNPDE20100202_221129_000000422086_00316_41452_8325.N1	02-FEB-2010 22:11:29	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	41452	No
44	GOM_TRA_1PNPDE20100202_221242_000000432086_00316_41452_8326.N1	02-FEB-2010 22:12:42	Dark	42.500	10	Bet Cen	0.61000	28000.	85	41452	No
45	GOM_TRA_1PNPDE20100202_221605_000000422086_00316_41452_8327.N1	02-FEB-2010 22:16:05	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	41452	No
46	GOM_TRA_1PNPDE20100202_221812_000000462086_00316_41452_8328.N1	02-FEB-2010 22:18:12	Dark	45.500	99	Del Cen	2.5750	26000.	91	41452	No
47	GOM_TRA_1PNPDE20100202_221957_000000382086_00316_41452_8329.N1	02-FEB-2010 22:19:57	Dark	38.000	159	Ups Car	2.9200	7200.0	76	41452	No
48	GOM_TRA_1PNPDE20100202_222152_000000402086_00316_41452_8330.N1	02-FEB-2010 22:21:52	Dark	40.000	71	lot Car	2.2460	7700.0	80	41452	No
49	GOM_TRA_1PNPDE20100202_222336_000000412086_00316_41452_8331.N1	02-FEB-2010 22:23:36	Dark	41.000	46	Del Vel	1.9540	10600.	82	41452	No
50	GOM_TRA_1PNPDE20100202_222606_000000432086_00316_41452_8332.N1	02-FEB-2010 22:26:06	Straylight	42.500	34	Gam2Vel	1.7930	23000.	85	41452	No
51	GOM_TRA_1PNPDE20100202_222811_000000392086_00316_41452_8333.N1	02-FEB-2010 22:28:11	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	41452	No
52	GOM_TRA_1PNPDE20100202_223232_000000422086_00316_41452_8334.N1	02-FEB-2010 22:32:32	Straylight	41.500	132	15Rho Pup	2.8030	6900.0	83	41452	No
53	GOM_TRA_1PNPDE20100202_224113_000000472086_00316_41452_8335.N1	02-FEB-2010 22:41:13	Twilight	47.000	8	10Alp CMi	0.40000	6500.0	94	41452	No
54	GOM_TRA_1PNPDE20100202_224750_000000412086_00316_41452_8336.N1	02-FEB-2010 22:47:50	Bright	40.500	17	78Bet Gem	1.1610	4500.0	81	41452	No
55	GOM_TRA_1PNPDE20100202_230508_000000332086_00316_41452_8337.N1	02-FEB-2010 23:05:08	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	41452	No
56	GOM_TRA_1PNPDE20100202_230807_000000412086_00316_41452_8338.N1	02-FEB-2010 23:08:07	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	41452	No
57	GOM_TRA_1PNPDE20100202_231251_000000412086_00316_41452_8339.N1	02-FEB-2010 23:12:51	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	41452	No
58	GOM_TRA_1PNPDE20100202_231606_000000412086_00316_41452_8340.N1	02-FEB-2010 23:16:06	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	41452	No

59	GOM_TRA_1PNPDE20100202_231948_000000352086_00316_41452_8341.N1	02-FEB-2010 23:19:48	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	41452	No
60	GOM_TRA_1PNPDE20100202_232805_000000562086_00316_41452_8342.N1	02-FEB-2010 23:28:05	Bright	56.000	59	55Alp Oph	2.0800	8900.0	112	41452	No
61	GOM_TRA_1PNPDE20100202_233014_000000552086_00316_41452_8343.N1	02-FEB-2010 23:30:14	Bright	55.000	126	60Bet Oph	2.7700	4250.0	110	41452	No
62	GOM_TRA_1PNPDE20100202_233648_000000442086_00316_41452_8301.N1	02-FEB-2010 23:36:48	Twilight_stray	43.500	86	35Eta Oph	2.4300	10200.	87	41452	No
63	GOM_TRA_1PNPDE20100202_234112_000000572086_00316_41452_8302.N1	02-FEB-2010 23:41:12	Dark	56.500	16	21Alp Sco	1.0200	3000.0	113	41452	No
64	GOM_TRA_1PNPDE20100202_234242_000000492086_00316_41452_8303.N1	02-FEB-2010 23:42:42	Dark	48.500	158	6Pi Sco	2.9060	28000.	97	41452	No
65	GOM_TRA_1PNPDE20100202_235206_000000542086_00317_41453_8304.N1	02-FEB-2010 23:52:06	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	41453	No
66	GOM_TRA_1PNPDE20100202_235319_000000482086_00317_41453_8305.N1	02-FEB-2010 23:53:19	Dark	47.500	10	Bet Cen	0.61000	28000.	95	41453	No
67	GOM_TRA_1PNPDE20100202_235641_000000452086_00317_41453_8306.N1	02-FEB-2010 23:56:41	Dark	44.500	12	Alp1Cru	0.77500	30000.	89	41453	No
68	GOM_TRA_1PNPDE20100202_235849_000000442086_00317_41453_8307.N1	02-FEB-2010 23:58:49	Dark	43.500	99	Del Cen	2.5750	26000.	87	41453	No

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



4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

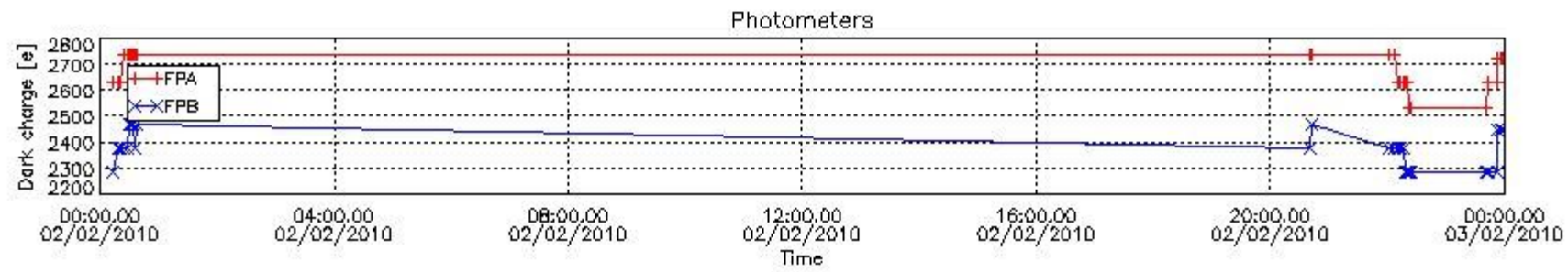
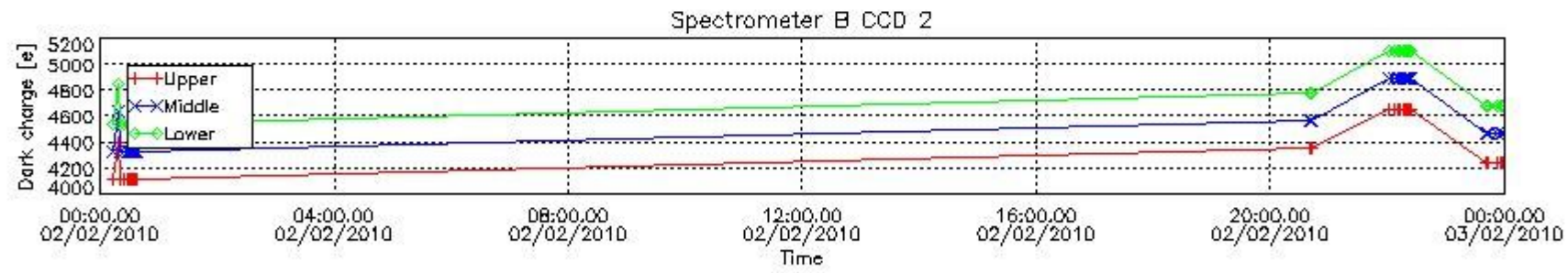
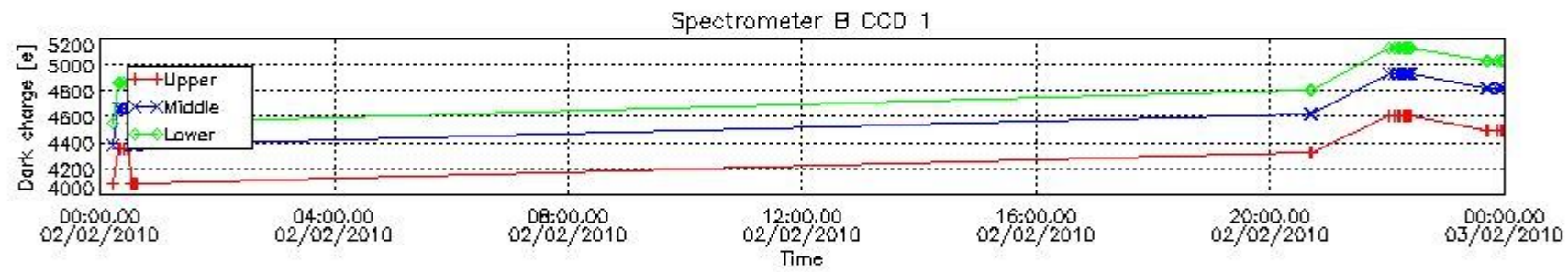
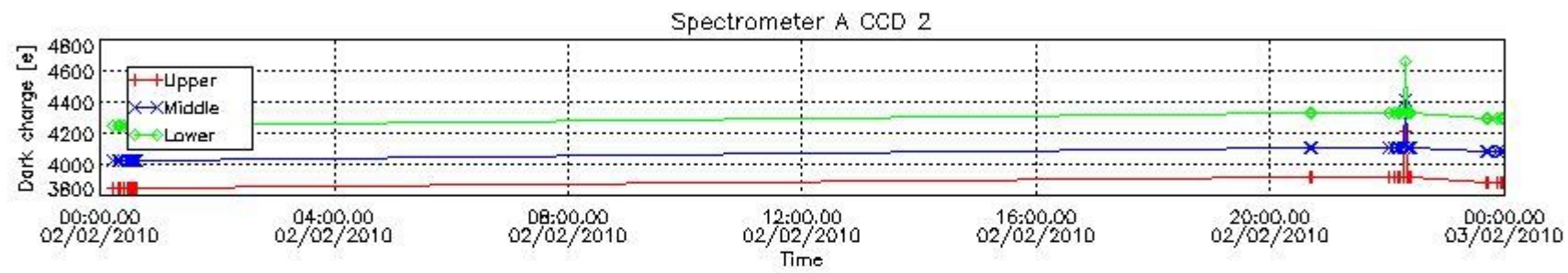
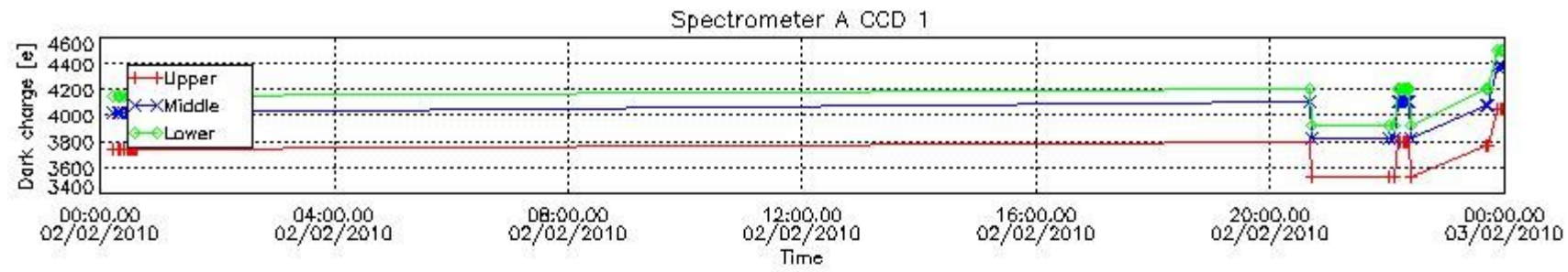
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
--------------	----------------

GOM_TRA_1PNPDE20100202_204116_000000422086_00315_41451_8272.N1	DC map used
GOM_TRA_1PNPDE20100202_204300_000000392086_00315_41451_8273.N1	DC map used
GOM_TRA_1PNPDE20100202_204530_000000422086_00315_41451_8274.N1	DC map used
GOM_TRA_1PNPDE20100202_204735_000000412086_00315_41451_8275.N1	DC map used
GOM_TRA_1PNPDE20100202_205156_000000422086_00315_41451_8276.N1	DC map used
GOM_TRA_1PNPDE20100202_210037_000000482086_00315_41451_8277.N1	DC map used
GOM_TRA_1PNPDE20100202_210714_000000412086_00315_41451_8278.N1	DC map used
GOM_TRA_1PNPDE20100202_212432_000000342086_00315_41451_8279.N1	DC map used
GOM_TRA_1PNPDE20100202_212731_000000422086_00315_41451_8280.N1	DC map used
GOM_TRA_1PNPDE20100202_213216_000000412086_00315_41451_8281.N1	DC map used
GOM_TRA_1PNPDE20100202_213530_000000422086_00315_41451_8282.N1	DC map used
GOM_TRA_1PNPDE20100202_213912_000000392086_00315_41451_8283.N1	DC map used
GOM_TRA_1PNPDE20100202_214729_000000442086_00315_41451_8284.N1	DC map used
GOM_TRA_1PNPDE20100202_214938_000000552086_00315_41451_8285.N1	DC map used
GOM_TRA_1PNPDE20100202_215612_000000332086_00315_41451_8286.N1	DC map used
GOM_TRA_1PNPDE20100202_220036_000000522086_00315_41451_8323.N1	DC map used
GOM_TRA_1PNPDE20100202_220626_000000442086_00315_41451_8324.N1	DC map used
GOM_TRA_1PNPDE20100202_221129_000000422086_00316_41452_8325.N1	DC map used
GOM_TRA_1PNPDE20100202_221242_000000432086_00316_41452_8326.N1	DC map used
GOM_TRA_1PNPDE20100202_221605_000000422086_00316_41452_8327.N1	DC map used
GOM_TRA_1PNPDE20100202_221812_000000462086_00316_41452_8328.N1	DC map used
GOM_TRA_1PNPDE20100202_221957_000000382086_00316_41452_8329.N1	DC map used
GOM_TRA_1PNPDE20100202_222152_000000402086_00316_41452_8330.N1	DC map used
GOM_TRA_1PNPDE20100202_222336_000000412086_00316_41452_8331.N1	DC map used
GOM_TRA_1PNPDE20100202_222606_000000432086_00316_41452_8332.N1	DC map used
GOM_TRA_1PNPDE20100202_222811_000000392086_00316_41452_8333.N1	DC map used
GOM_TRA_1PNPDE20100202_223232_000000422086_00316_41452_8334.N1	DC map used
GOM_TRA_1PNPDE20100202_224113_000000472086_00316_41452_8335.N1	DC map used
GOM_TRA_1PNPDE20100202_224750_000000412086_00316_41452_8336.N1	DC map used
GOM_TRA_1PNPDE20100202_230508_000000332086_00316_41452_8337.N1	DC map used
GOM_TRA_1PNPDE20100202_230807_000000412086_00316_41452_8338.N1	DC map used
GOM_TRA_1PNPDE20100202_231251_000000412086_00316_41452_8339.N1	DC map used
GOM_TRA_1PNPDE20100202_231606_000000412086_00316_41452_8340.N1	DC map used
GOM_TRA_1PNPDE20100202_231948_000000352086_00316_41452_8341.N1	DC map used
GOM_TRA_1PNPDE20100202_232805_000000562086_00316_41452_8342.N1	DC map used
GOM_TRA_1PNPDE20100202_233014_000000552086_00316_41452_8343.N1	DC map used

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



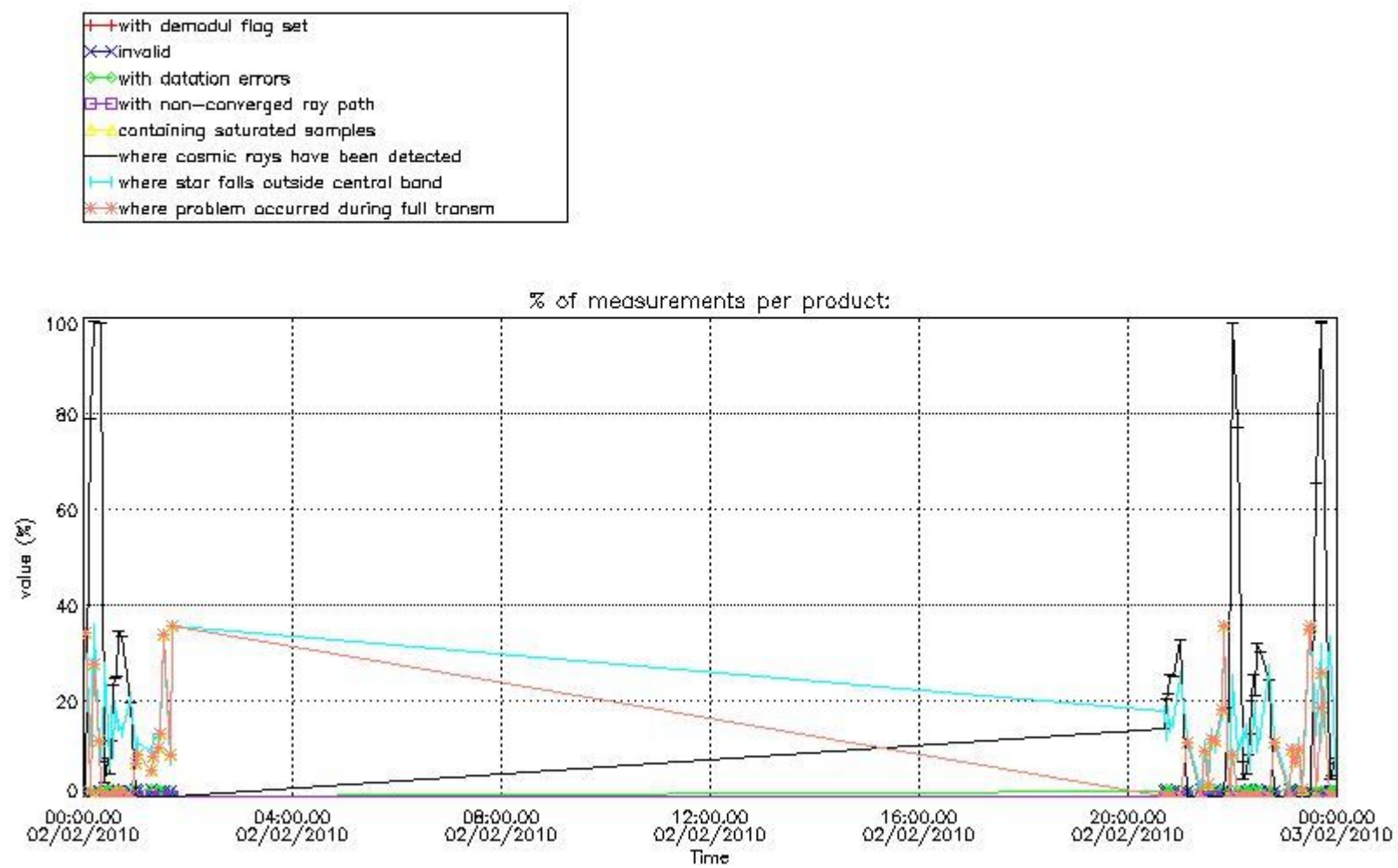
5. Demodulation flag and quality information monitoring

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

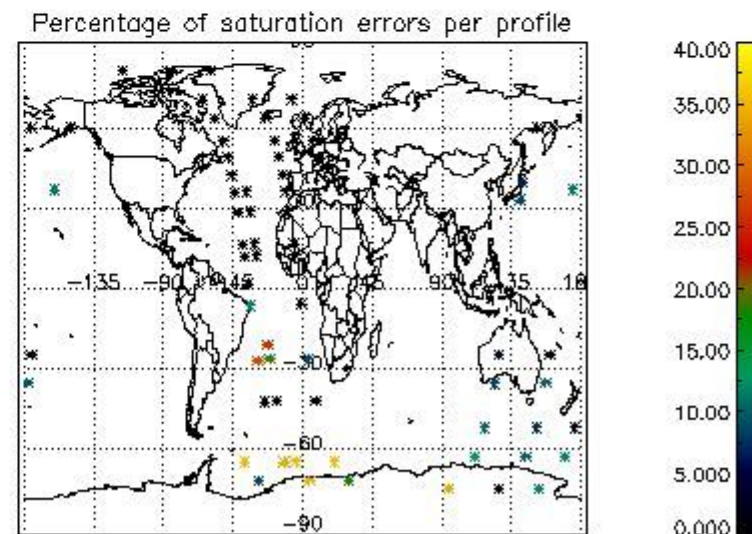
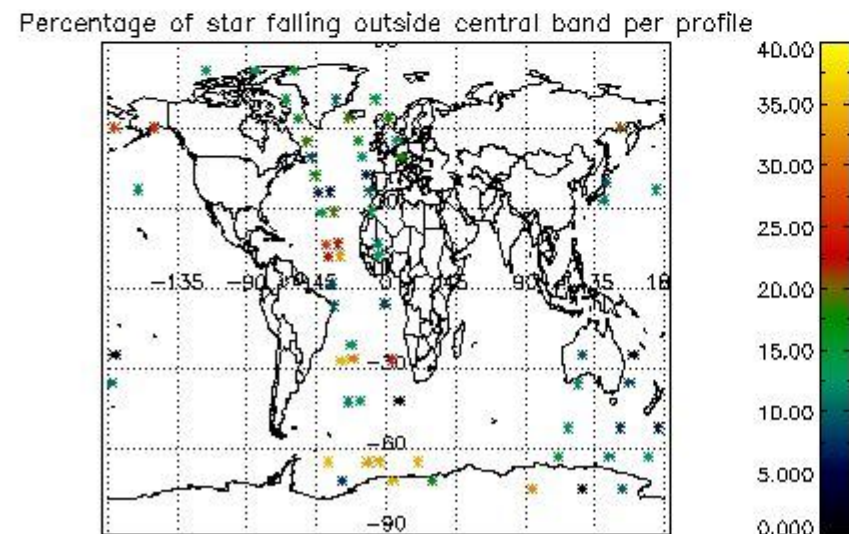
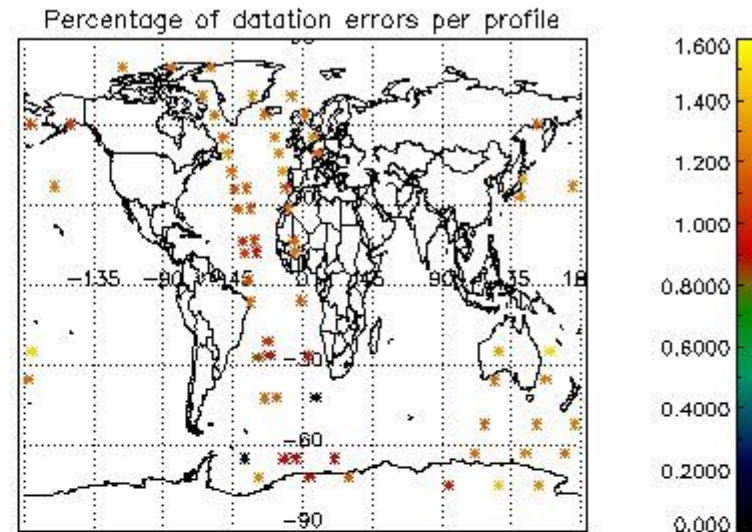
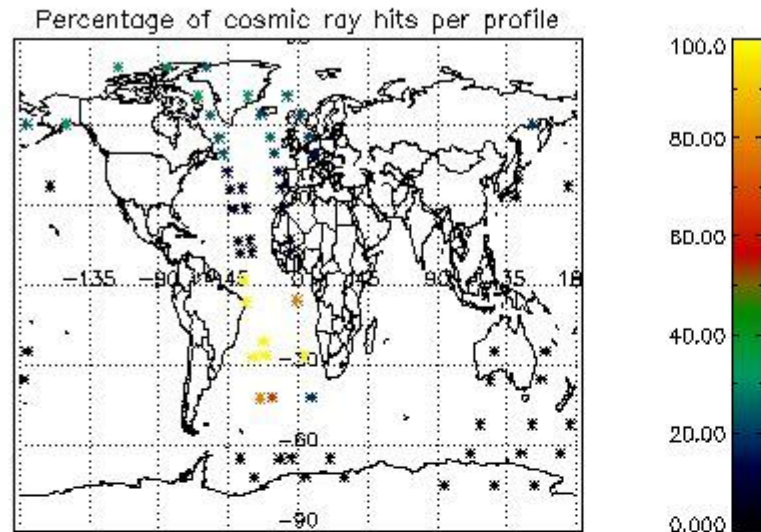
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	47.0588 %
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)



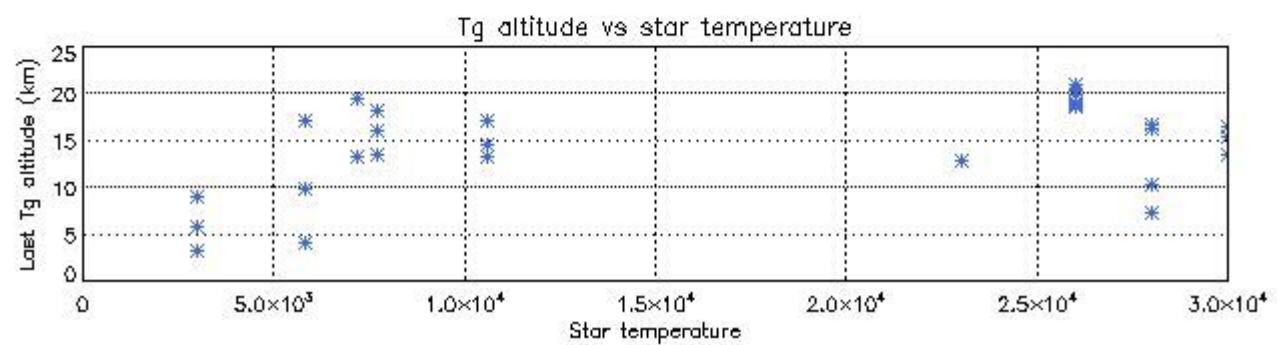
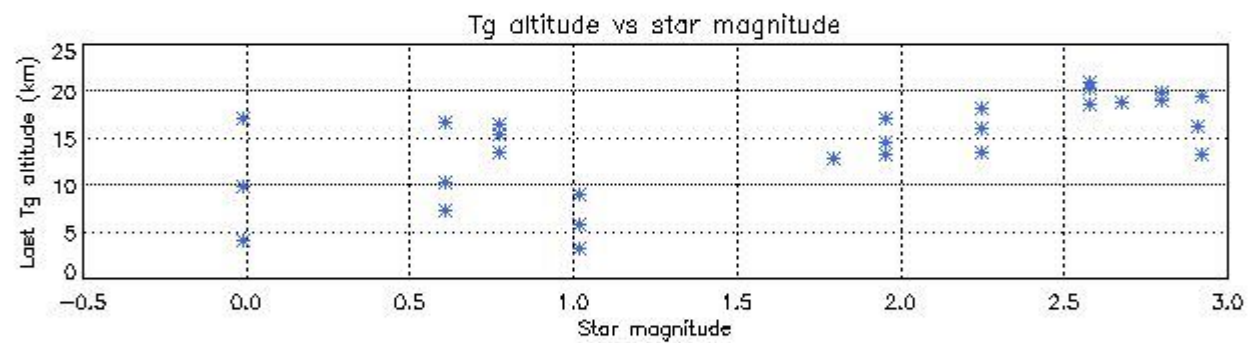
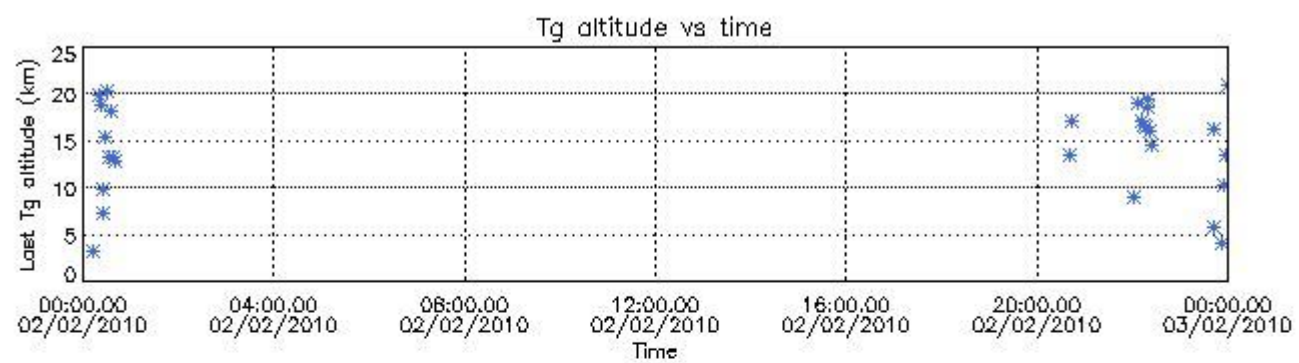
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.304	15.293	NaN
St. deviation:	4.9744	6.8655	NaN
Maximum:	20.918	27.781	NaN
Minimum:	3.2126	3.9916	NaN
Number of data:	28.000	26.000	NaN

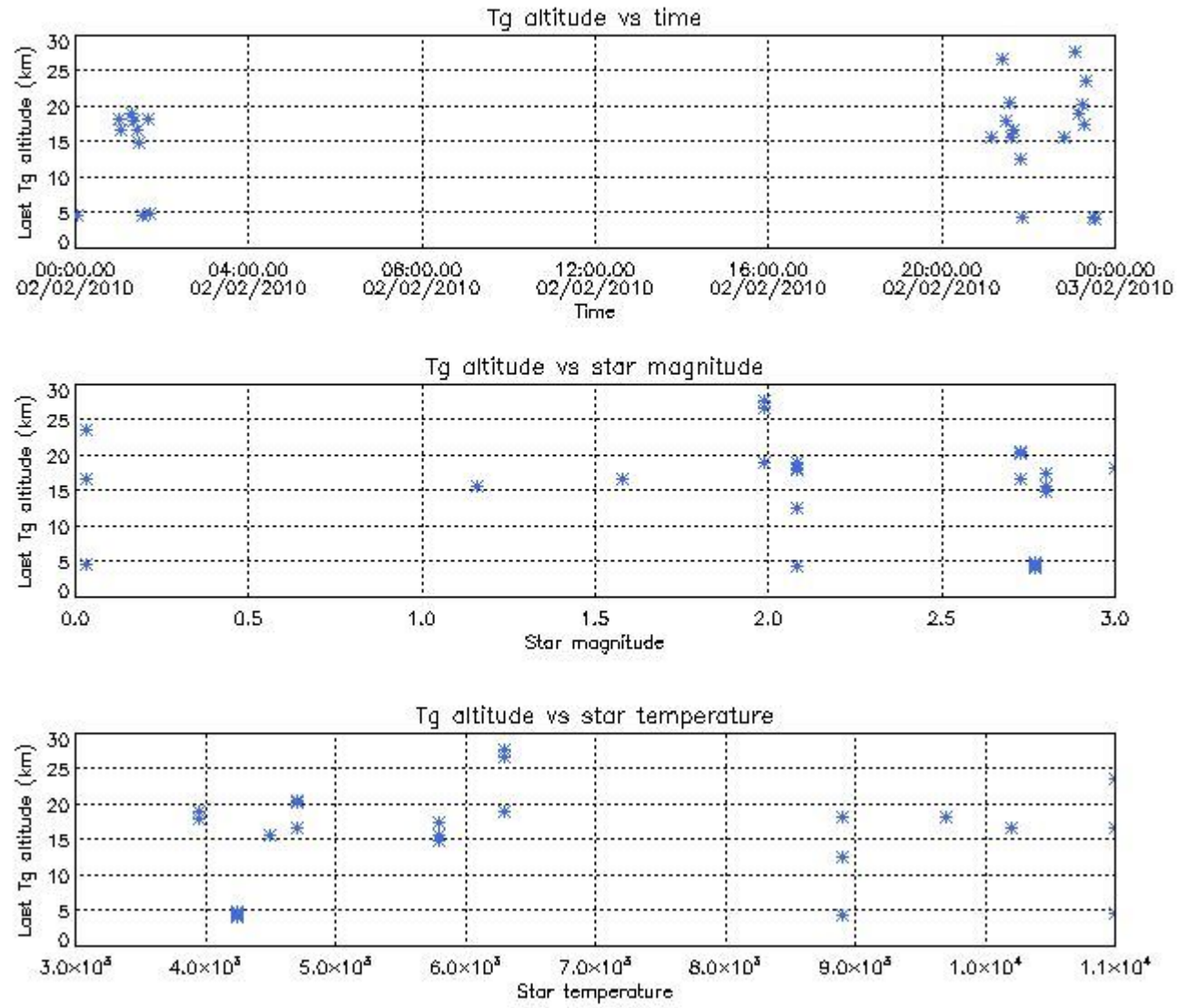
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

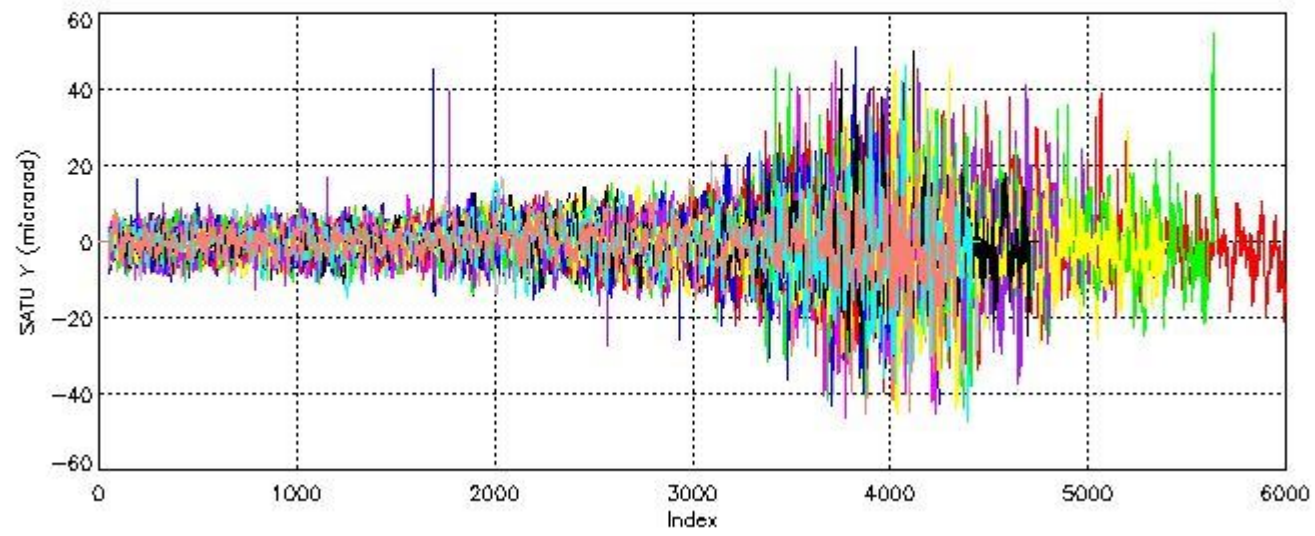
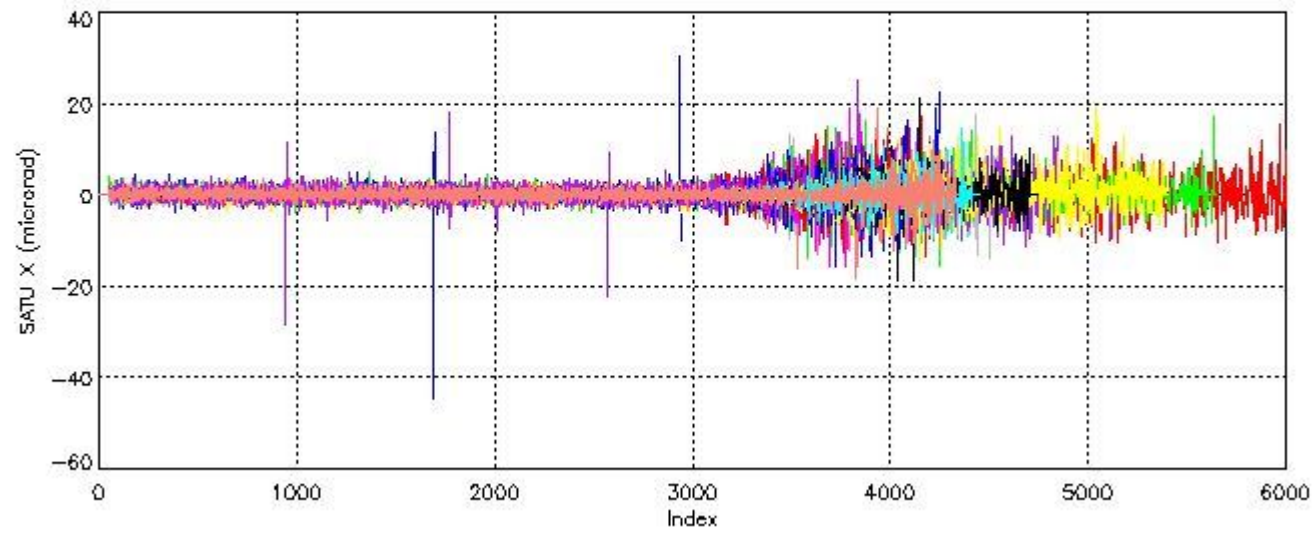


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.15177	-0.25461	0.062120	-0.29572
St. deviation:	0.56368	2.8204	0.51769	2.6566
Maximum:	11.400	16.200	3.5000	10.900
Minimum:	-28.400	-12.500	-2.6000	-12.000

Number of data:	26850.	26850.	23150.	23150.
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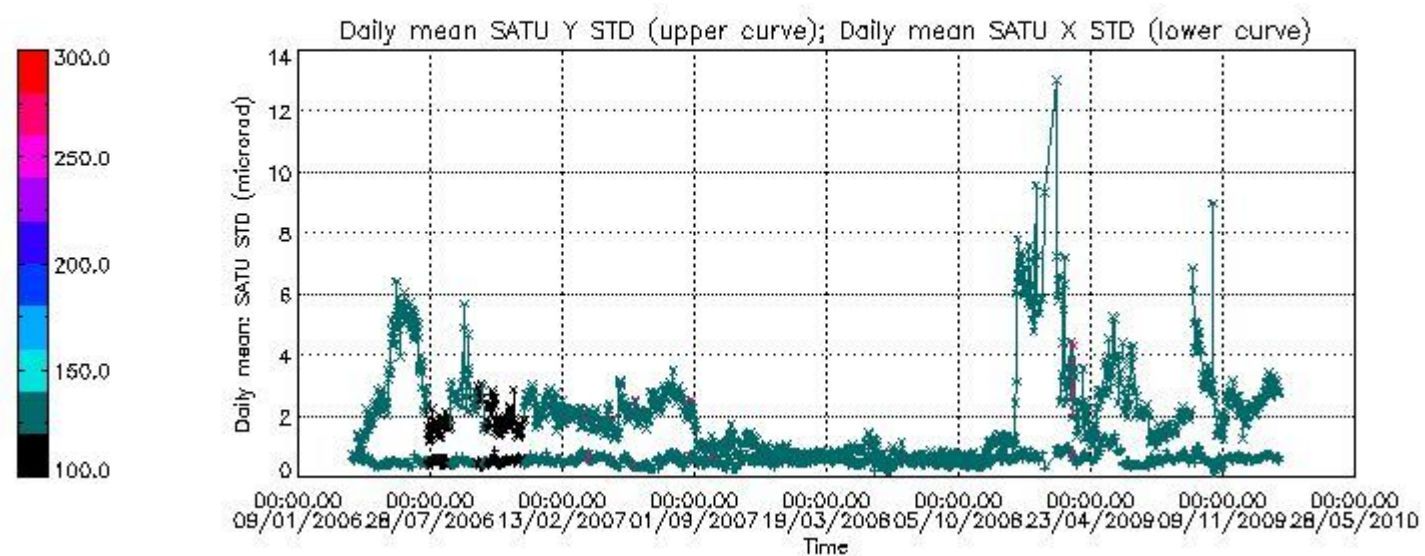
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

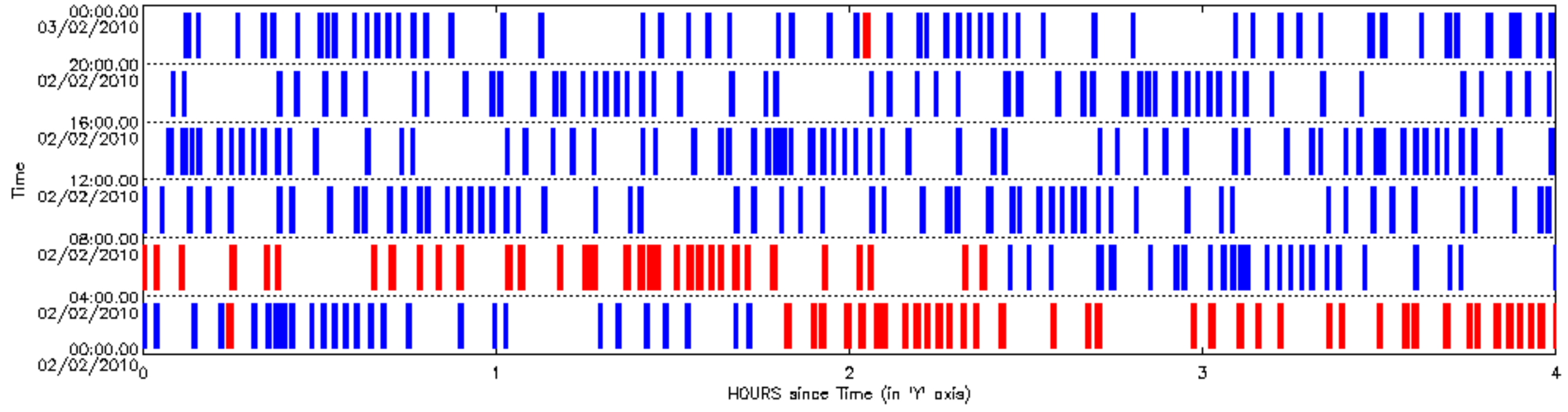
Lower curve: STD of SATU X axis

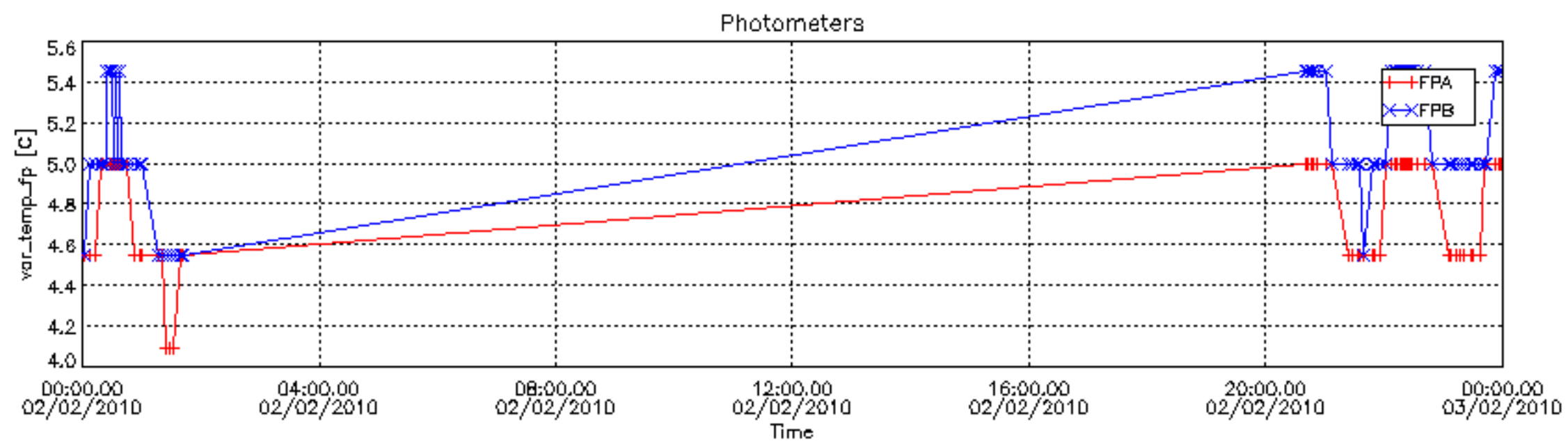
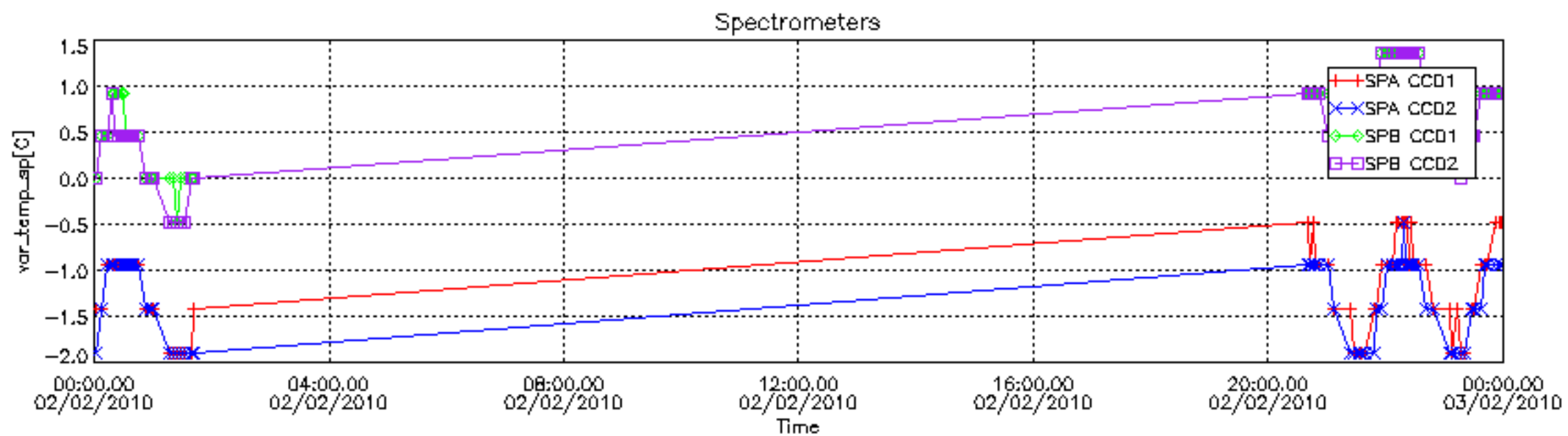


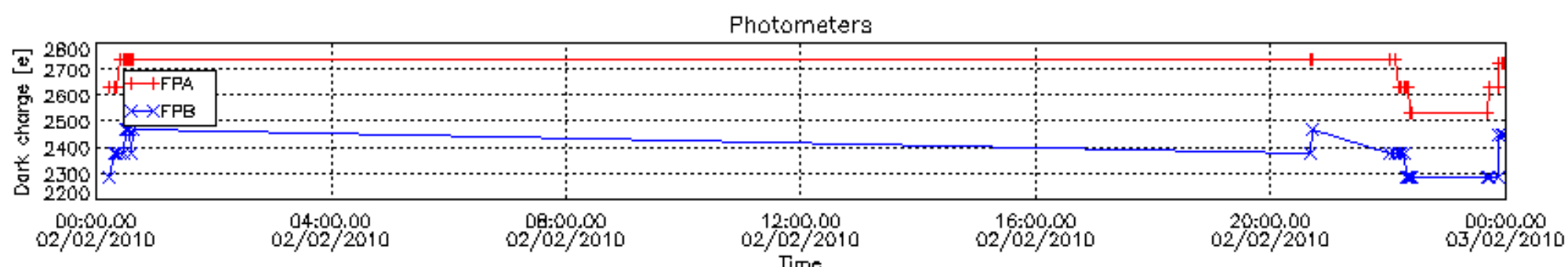
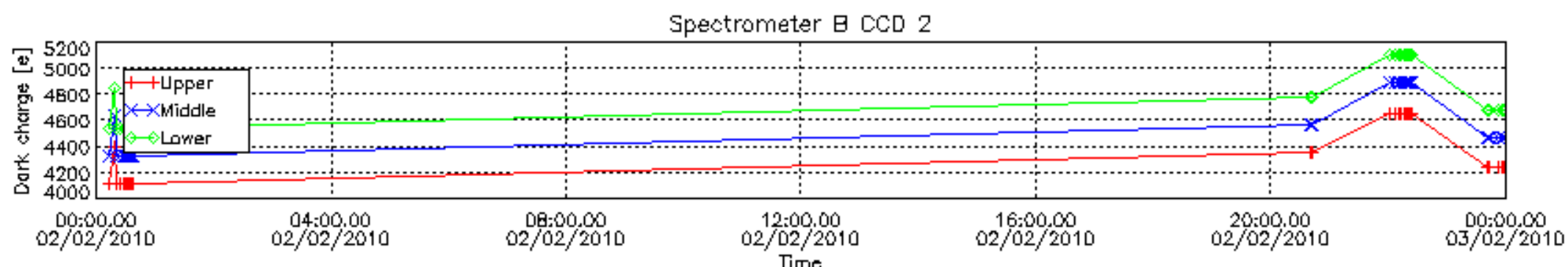
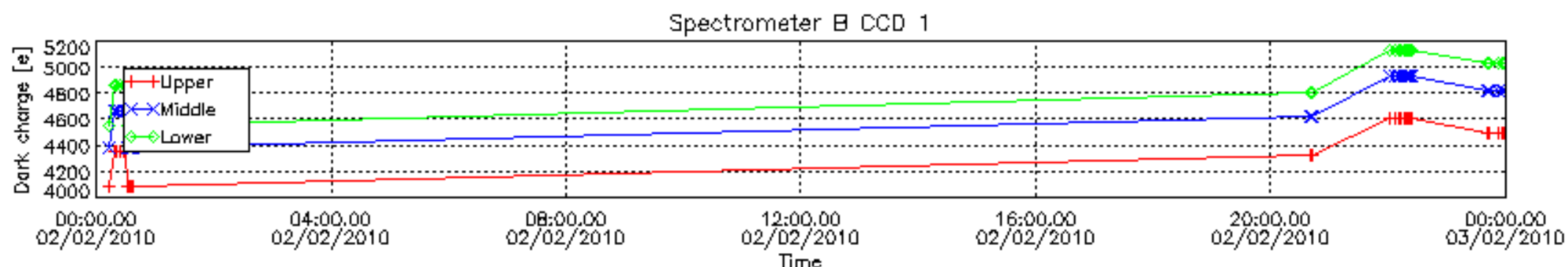
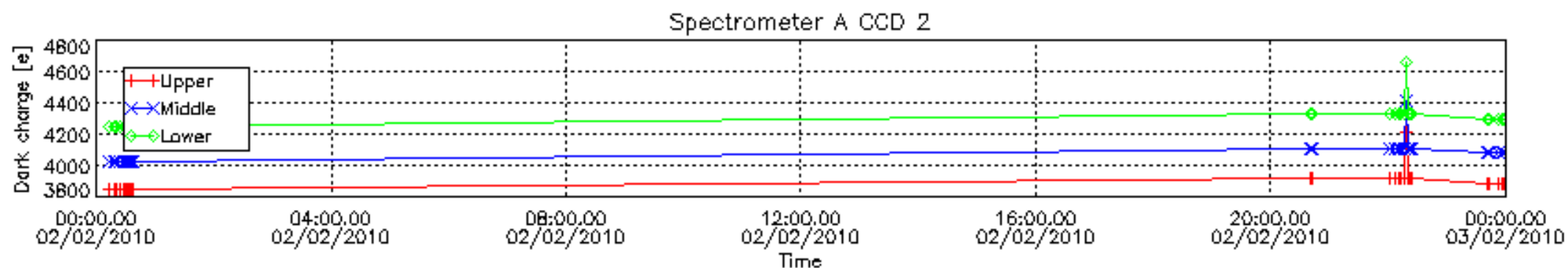
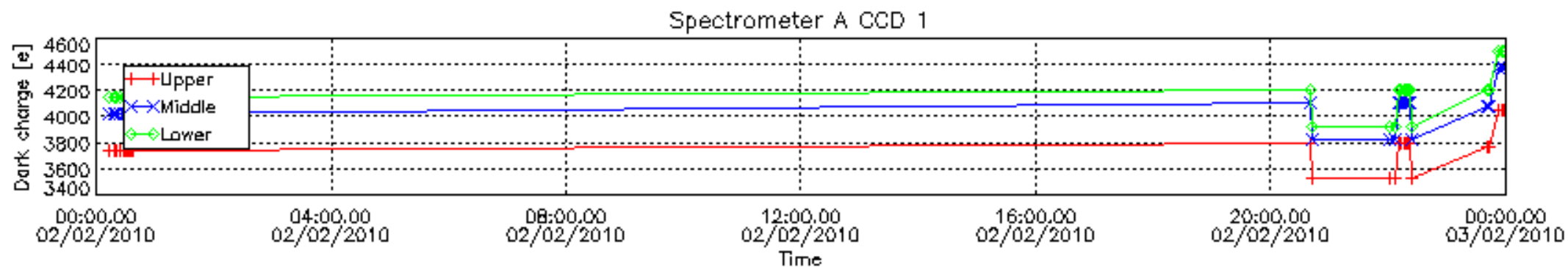
8. Auxiliary Data Files used for the production reported in section 2.4

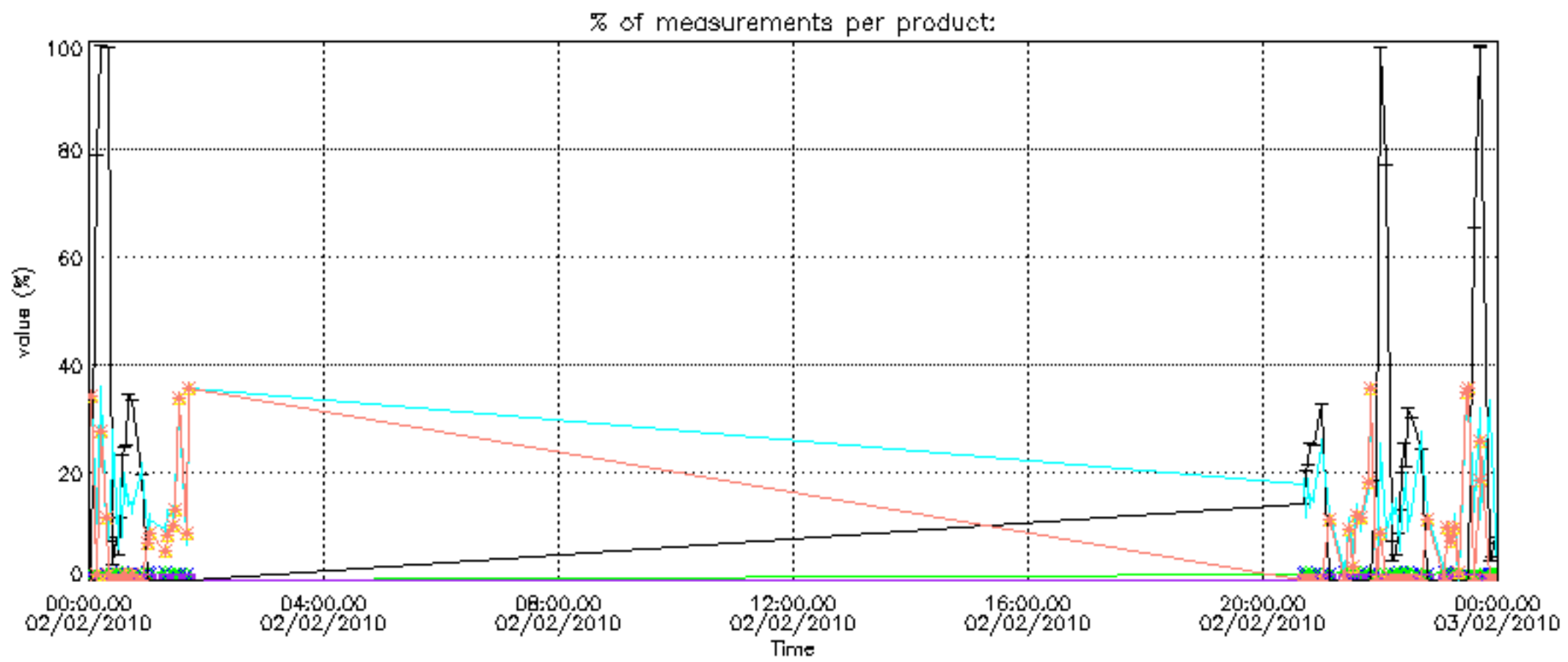
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-FEB-2010 00:01:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100127_093029_20100125_000000_20500101_000000	1	02-FEB-2010 00:01:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100202_143945_20100131_000000_20500101_000000	26	02-FEB-2010 20:41:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	02-FEB-2010 00:01:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-FEB-2010 00:01:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	02-FEB-2010 00:01:47
ECMWF_FILE	AUX_ECF_AXNECM20100201_062114_20100201_210000_20100202_090000	1	02-FEB-2010 00:01:47
ECMWF_FILE	AUX_ECF_AXNECM20100202_062112_20100202_150000_20100203_030000	26	02-FEB-2010 20:41:16
ECMWF_FILE	AUX_ECF_AXNECM20100202_062112_20100202_210000_20100203_090000	41	02-FEB-2010 22:00:36
OPTIONAL_ECMWF_FILE	MISSING	1	02-FEB-2010 00:01:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100201_222151_000060572086_00301_41437_9686.N1	1	02-FEB-2010 00:01:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100202_000249_000057382086_00302_41438_9687.N1	2	02-FEB-2010 00:08:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100202_204046_000041442086_00315_41451_9688.N1	26	02-FEB-2010 20:41:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100202_215509_000057382086_00315_41451_9689.N1	41	02-FEB-2010 22:00:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100202_233606_000057382086_00316_41452_9690.N1	62	02-FEB-2010 23:36:48

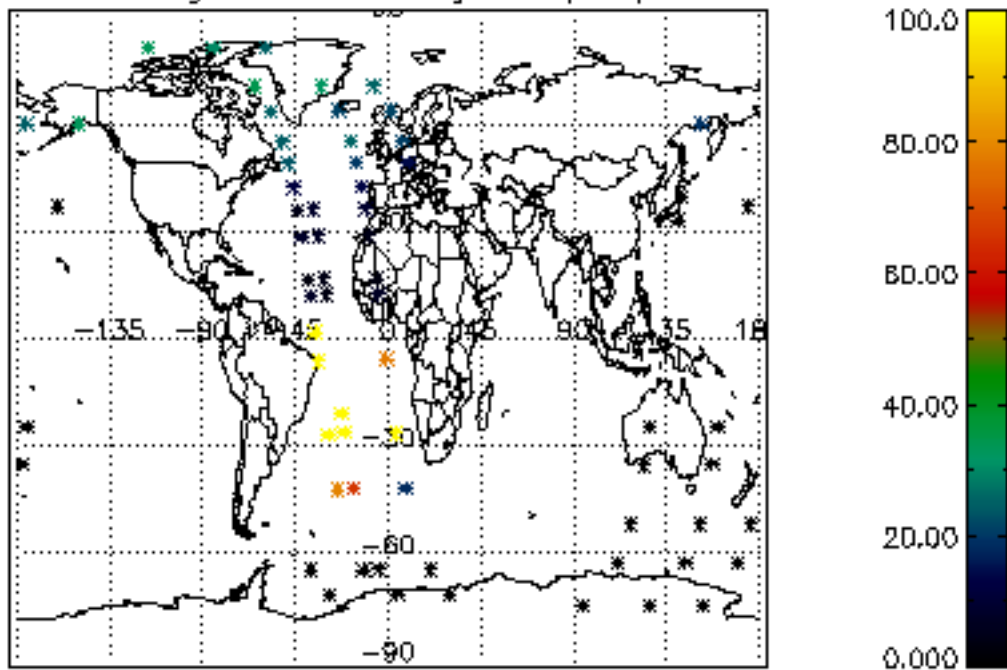




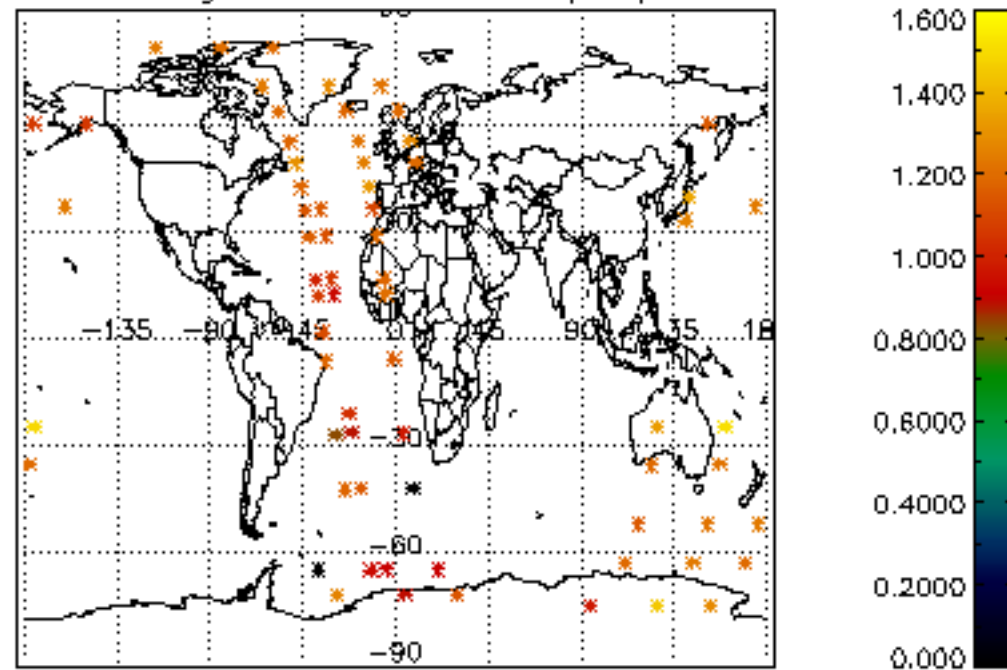




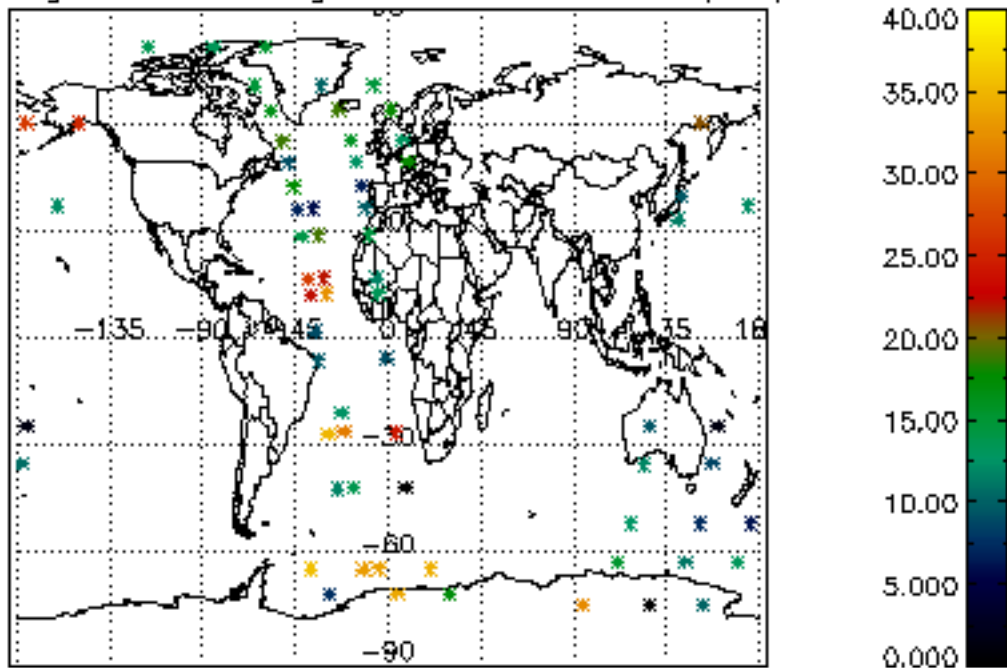
Percentage of cosmic ray hits per profile



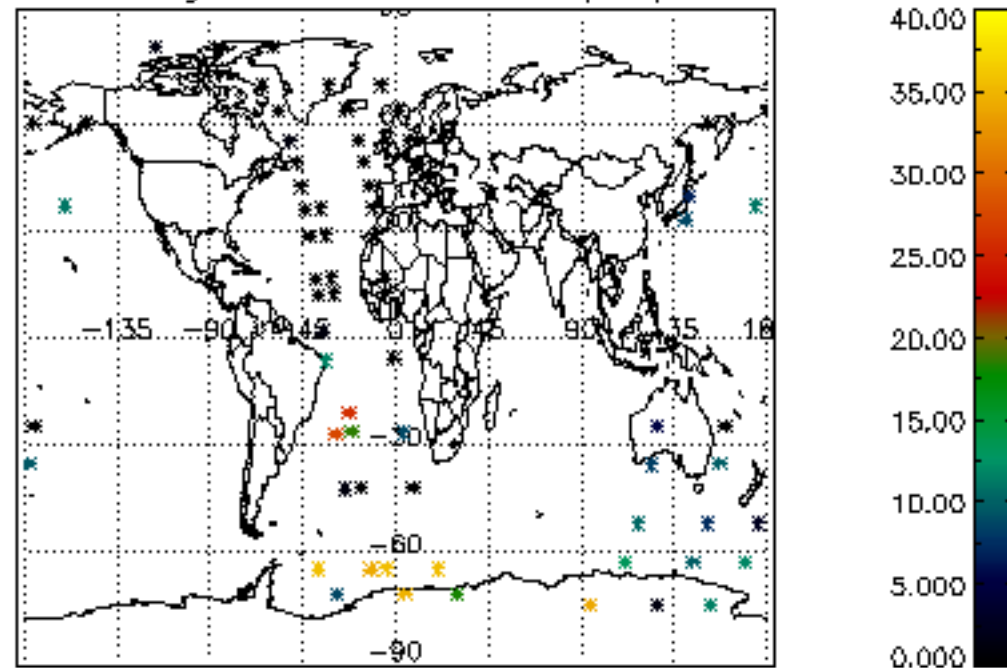
Percentage of datation errors per profile



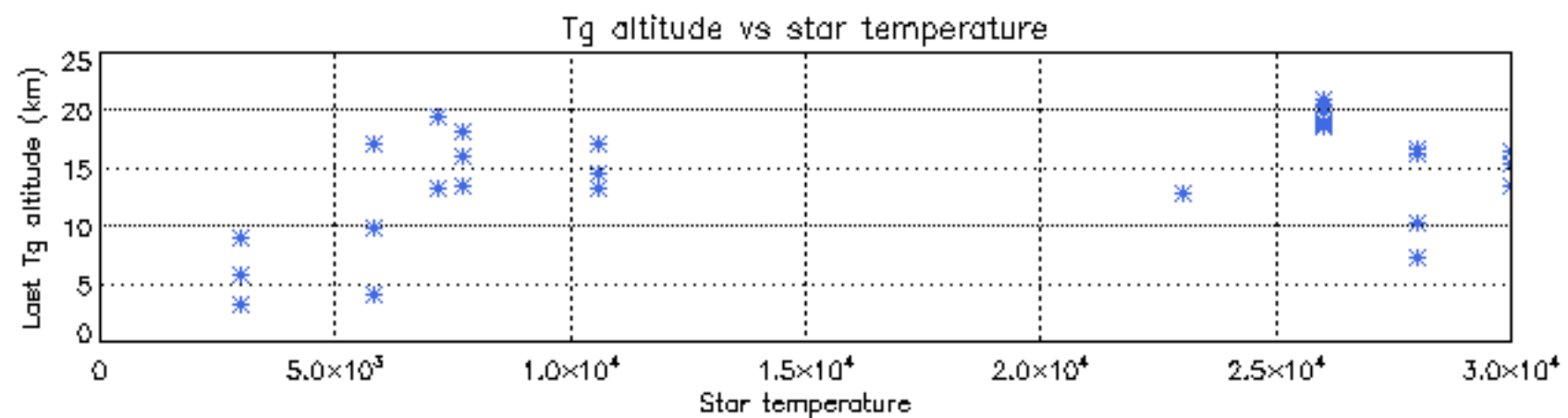
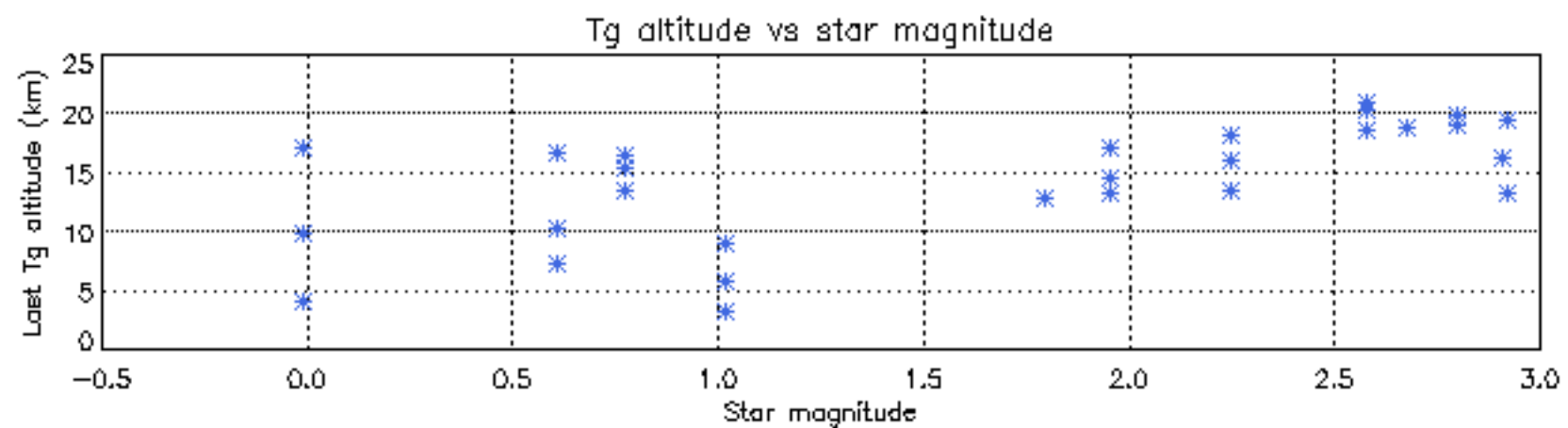
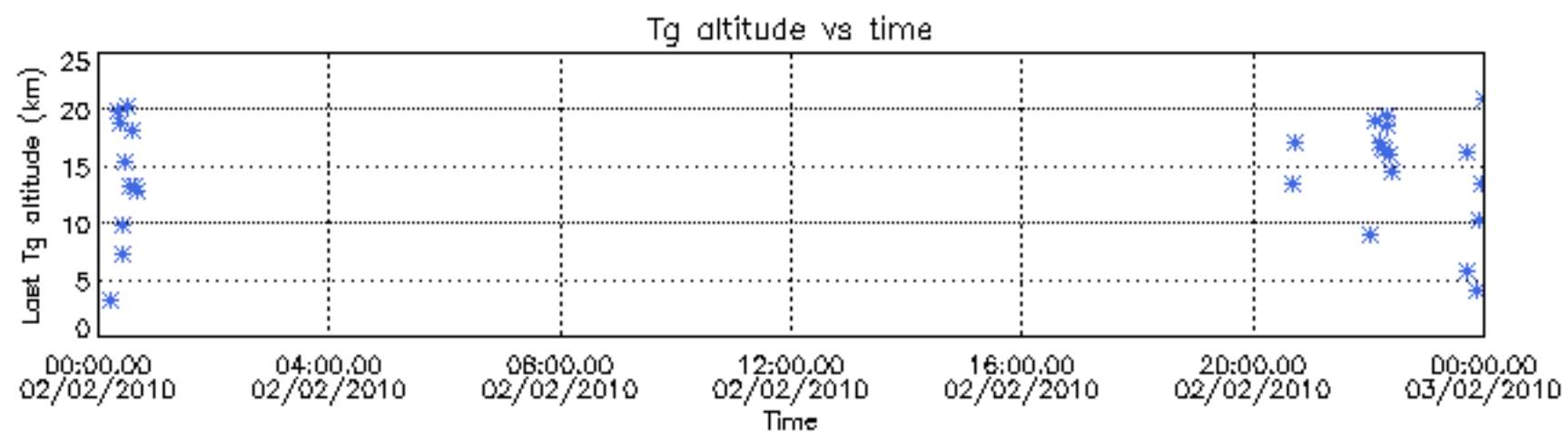
Percentage of star falling outside central band per profile



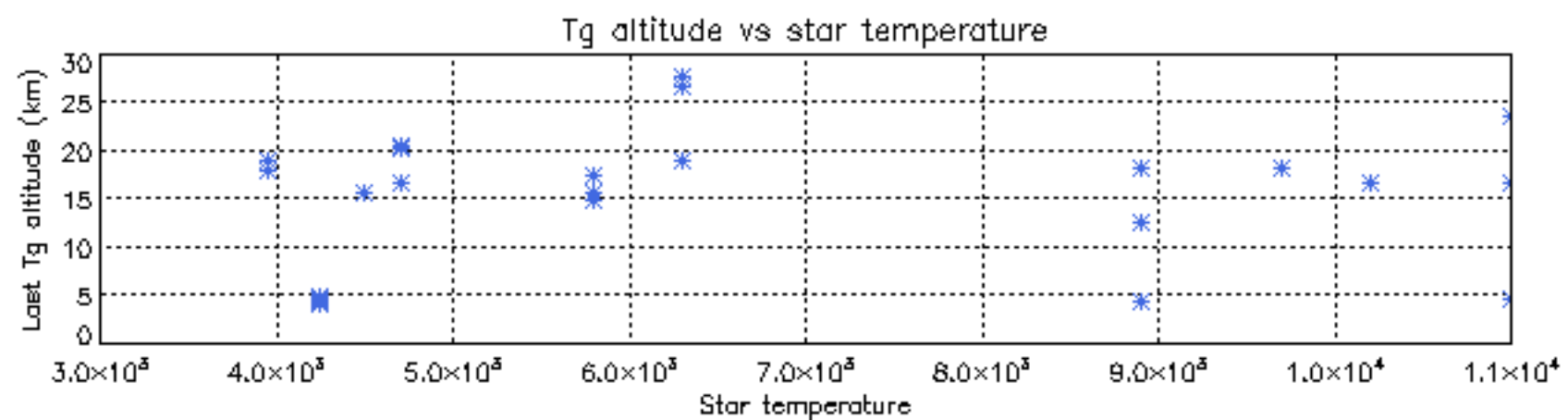
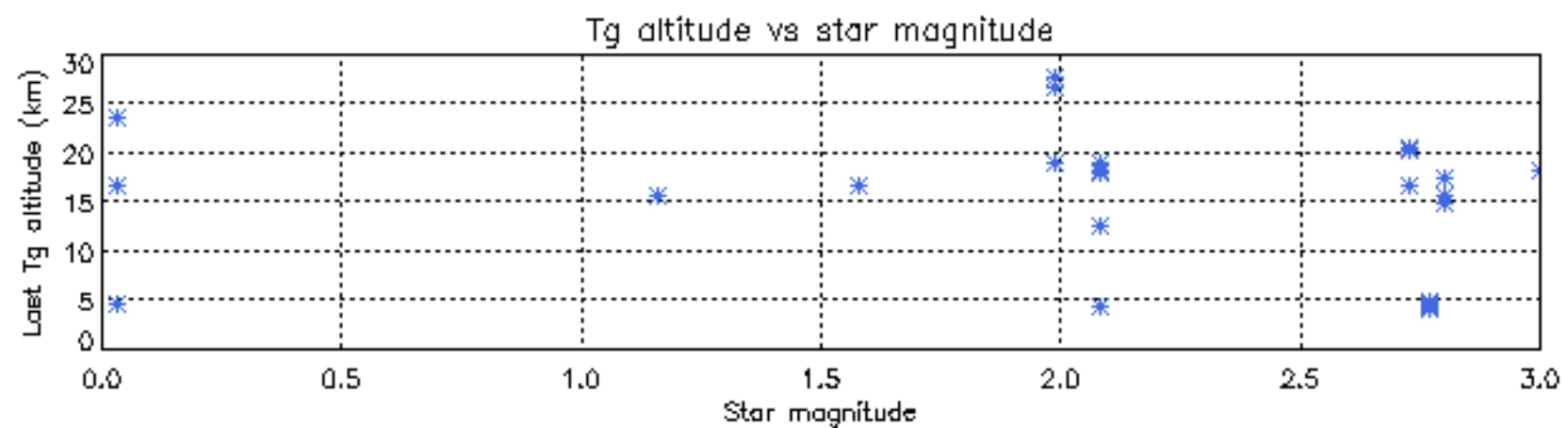
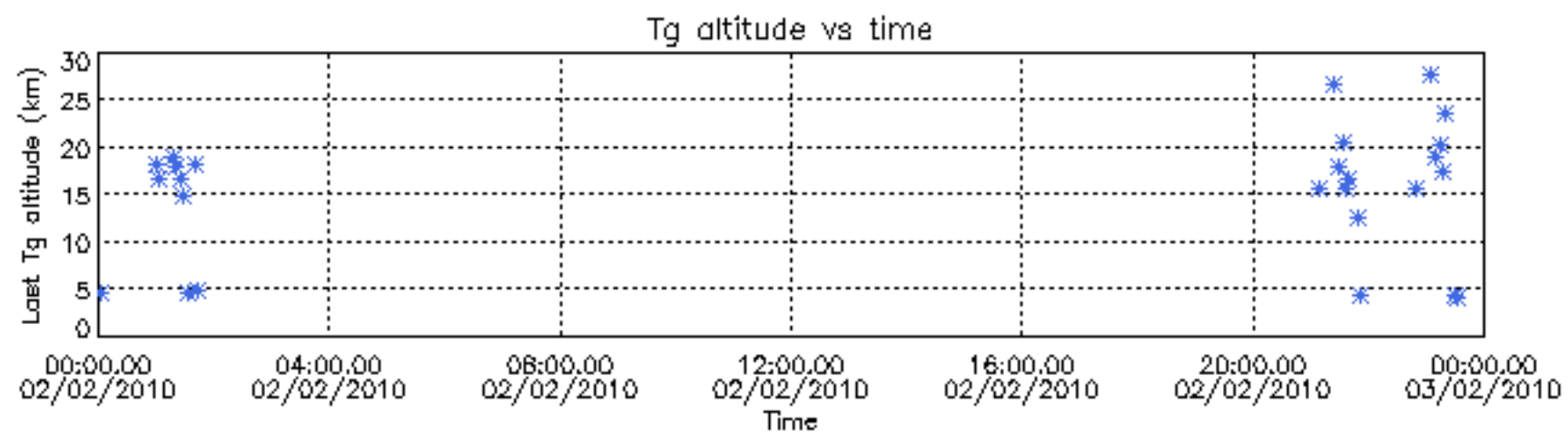
Percentage of saturation errors per profile

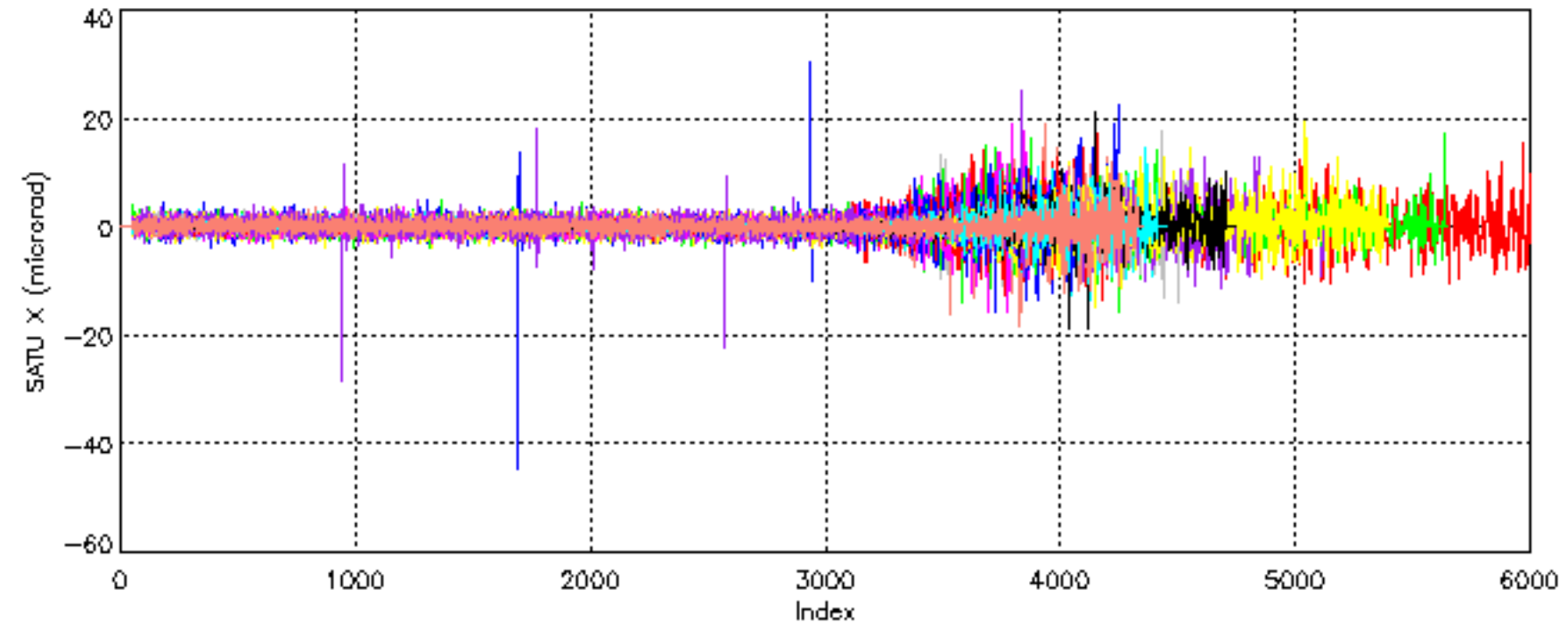


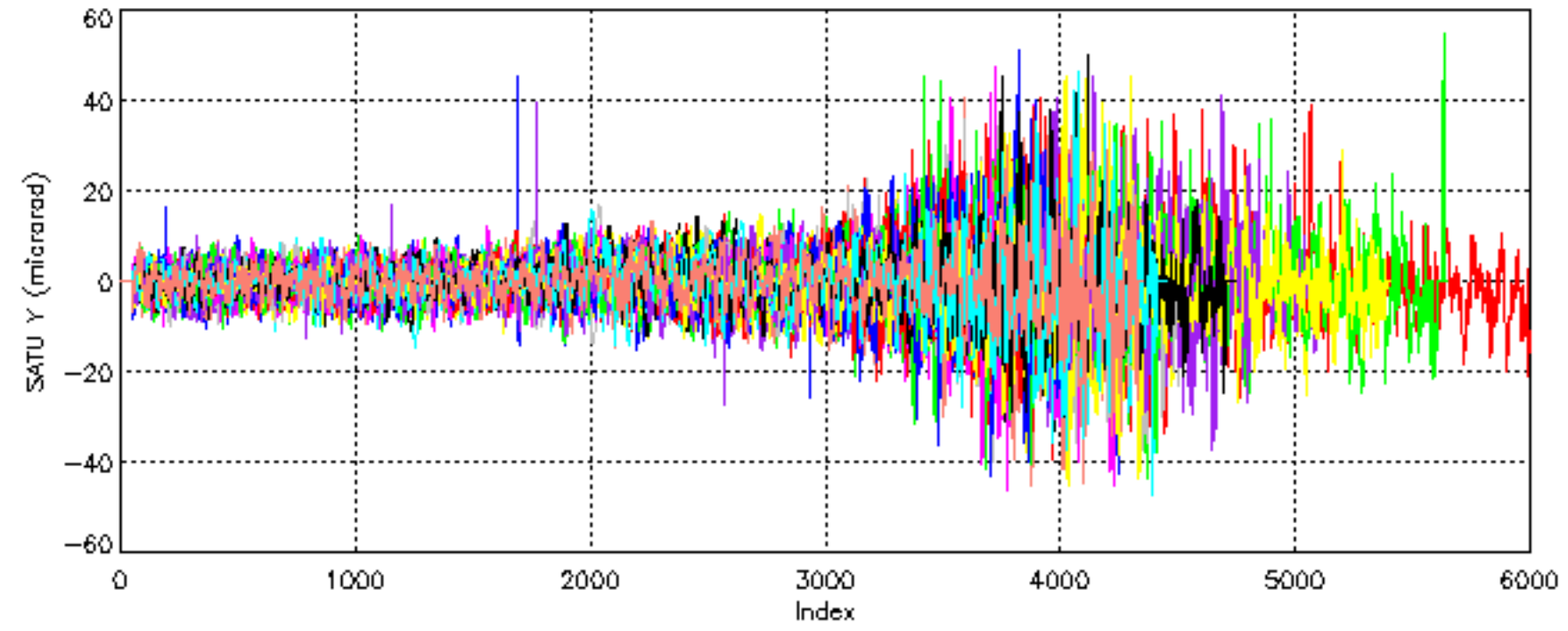
Tangent altitude at which the star is lost

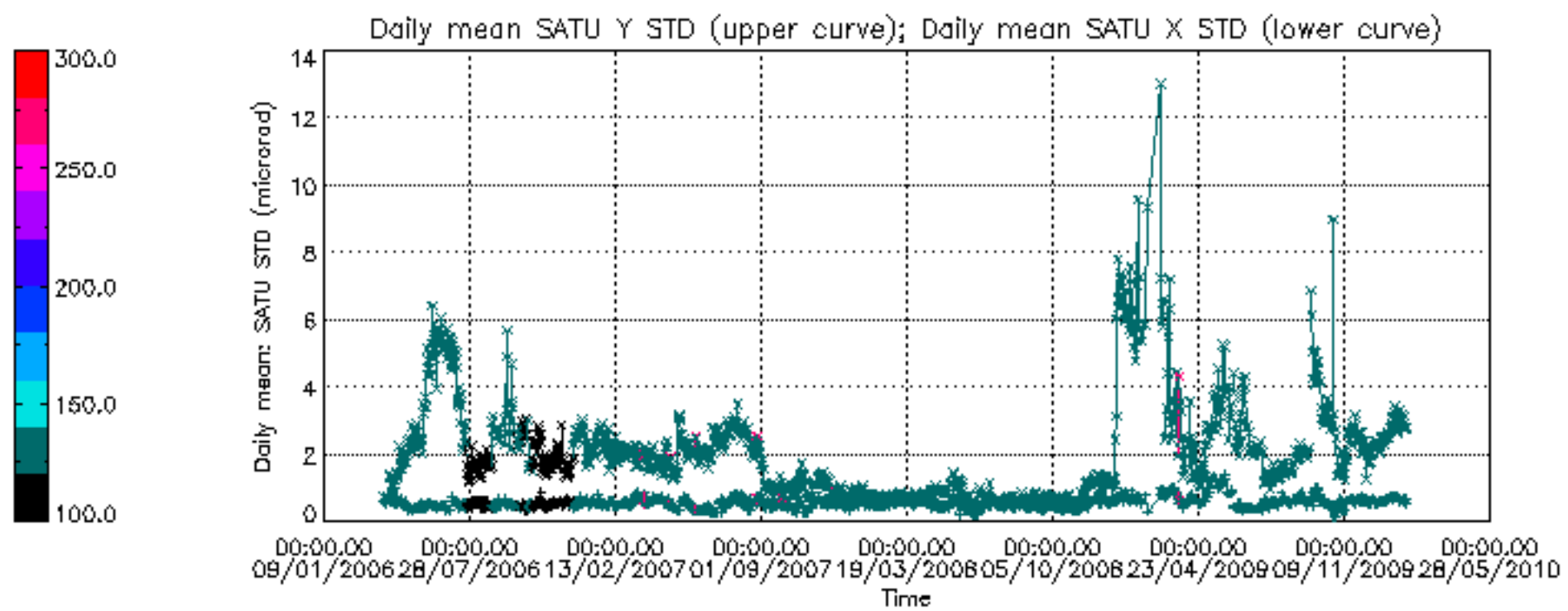


Tangent altitude at which the star is lost









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

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

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

1; -1080.7; 01-FEB-2010 02:14:25; Bright; 54.0; 126; 60Bet Oph ; 2.77; 4250;occ; 108; 59;41425
 2; -721.4; 01-FEB-2010 02:20:24; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;41425
 3; -462.6; 01-FEB-2010 02:24:43; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;41425
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14; 6005.4; 02-FEB-2010 10:23:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41444
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 19; 6318.2; 02-FEB-2010 20:32:06; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41450
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 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
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 31; 6522.3; 03-FEB-2010 03:17:54; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41454
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 33; 6754.3; 03-FEB-2010 03:21:46; Dark ; 36.5; 159; Ups Car ; 2.92; 7200;occ; 73; 0;41454
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13; 5601.1; 03-FEB-2010 18:07:56; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;41463
14; 5692.6; 03-FEB-2010 18:09:27; Dark ; 46.5; 158; 6Pi Sco ; 2.91; 28000;occ; 93; 0;41463
15; 5952.1; 03-FEB-2010 18:13:47; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;41463

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 22; 6975.8; 03-FEB-2010 18:30:51; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41463
 23; 7129.7; 03-FEB-2010 18:33:25; Dark ; 1.0; 65; Lam Vel ; 2.20; 4400;occ; 2; 0;41463

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 9; 4809.6; 03-FEB-2010 19:35:20; Bright; 56.0; 59; 55Alp Oph ; 2.08; 8900;occ; 112; 0;41464
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 11; 5335.2; 03-FEB-2010 19:44:06; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;41464
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 21; 6975.5; 03-FEB-2010 20:11:26; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41464

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 11; 837.8; 04-FEB-2010 01:11:32; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;41468
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 13; 1094.8; 04-FEB-2010 01:15:49; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;41468
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 7; 292.8; 04-FEB-2010 02:43:03; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41469
 8; 493.8; 04-FEB-2010 02:46:24; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41469
 9; 625.8; 04-FEB-2010 02:48:36; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41469
 10; 722.7; 04-FEB-2010 02:50:13; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;41469
 11; 837.5; 04-FEB-2010 02:52:08; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;41469
 12; 941.0; 04-FEB-2010 02:53:51; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41469
 13; 1094.9; 04-FEB-2010 02:56:25; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;41469
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18; 3428.4; 04-FEB-2010 03:35:19; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;41469
19; 3602.2; 04-FEB-2010 03:38:12; Bright; 19.5; 60; 7Bet UMi ; 2.08; 3950;occ; 39; 0;41469
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 3; -1950.0; 04-FEB-2010 03:46:16; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;41469
 4; -1725.4; 04-FEB-2010 03:50:01; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41469
 5; -1095.7; 04-FEB-2010 04:00:30; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;41469
 6; -697.9; 04-FEB-2010 04:07:08; Dark ; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;41469
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 9; 138.9; 04-FEB-2010 04:21:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41470
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11; 626.7; 04-FEB-2010 04:29:13; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41470
12; 838.0; 04-FEB-2010 04:32:44; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41470
13; 941.5; 04-FEB-2010 04:34:28; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41470
14; 1095.2; 04-FEB-2010 04:37:01; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;41470
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 5; 943.8; 04-FEB-2010 21:20:29; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;41480
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 4; -69.3; 04-FEB-2010 22:44:12; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;41480
 5; 146.9; 04-FEB-2010 22:47:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41481
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 7; 140.4; 04-FEB-2010 07:42:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41472
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3; 3596.6; 05-FEB-2010 16:31:17; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;41491
4; 3884.0; 05-FEB-2010 16:36:04; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;41491
5; 4085.6; 05-FEB-2010 16:39:26; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;41491
6; 4818.4; 05-FEB-2010 16:51:39; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;41491
7; 4948.3; 05-FEB-2010 16:53:49; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;41491
8; 5351.1; 05-FEB-2010 17:00:32; Dark ; 47.5; 86; 35Eta Oph ; 2.43; 10200;occ; 95; 0;41491
9; 5623.1; 05-FEB-2010 17:05:04; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;41491
10; 5727.7; 05-FEB-2010 17:06:48; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;41491
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12; 6190.9; 05-FEB-2010 17:14:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41491
13; 6343.2; 05-FEB-2010 17:17:04; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;41491
14; 6515.4; 05-FEB-2010 17:19:56; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0;41491
15; 6598.1; 05-FEB-2010 17:21:19; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;41491
16; 6704.7; 05-FEB-2010 17:23:05; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;41491
17; 6880.6; 05-FEB-2010 17:26:01; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;41491
18; 6983.1; 05-FEB-2010 17:27:44; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;41491
19; 7138.6; 05-FEB-2010 17:30:19; Dark ; 11.0; 65; Lam Vel ; 2.20; 4400;occ; 22; 0;41491

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2; 1220.1; 05-FEB-2010 17:32:17; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;41492
3; 1479.7; 05-FEB-2010 17:36:36; Dark ; 39.5; 132; 15Rho Pup ; 2.80; 6900;occ; 79; 0;41492
4; 1995.4; 05-FEB-2010 17:45:12; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;41492
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6; 3428.8; 05-FEB-2010 18:09:05; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;41492
7; 3596.5; 05-FEB-2010 18:11:53; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41492
8; 3883.6; 05-FEB-2010 18:16:40; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;41492
9; 4085.4; 05-FEB-2010 18:20:02; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;41492
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11; 4818.8; 05-FEB-2010 18:32:15; Bright; 57.0; 59; 55Alp Oph ; 2.08; 8900;occ; 114; 0;41492
12; 4948.6; 05-FEB-2010 18:34:25; Bright; 40.5; 126; 60Bet Oph ; 2.77; 4250;occ; 81; 0;41492
13; 5351.3; 05-FEB-2010 18:41:08; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;41492
14; 5624.1; 05-FEB-2010 18:45:41; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;41492
15; 5727.9; 05-FEB-2010 18:47:24; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;41492
16; 5977.2; 05-FEB-2010 18:51:34; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;41492
17; 6191.6; 05-FEB-2010 18:55:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41492
18; 6343.6; 05-FEB-2010 18:57:40; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41492
19; 6516.2; 05-FEB-2010 19:00:33; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;41492
20; 6599.1; 05-FEB-2010 19:01:56; Dark ; 48.5; 64; Gam Cen ; 2.20; 10600;occ; 97; 0;41492
21; 6705.1; 05-FEB-2010 19:03:42; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;41492
22; 6880.7; 05-FEB-2010 19:06:37; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;41492
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3; 1224.5; 05-FEB-2010 19:12:57; Dark ; 35.0; 70; Zet Pup ; 2.25; 39000;occ; 70; 0;41493
4; 2386.8; 05-FEB-2010 19:32:19; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;41493
5; 3596.2; 05-FEB-2010 19:52:29; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;41493
6; 3883.3; 05-FEB-2010 19:57:16; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;41493

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8; 4313.7; 05-FEB-2010 20:04:26; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;41493
9; 4819.0; 05-FEB-2010 20:12:51; Bright; 41.0; 59; 55Alp Oph ; 2.08; 8900;occ; 82; 0;41493
10; 4949.1; 05-FEB-2010 20:15:02; Bright; 56.0; 126; 60Bet Oph ; 2.77; 4250;occ; 112; 0;41493
11; 5352.1; 05-FEB-2010 20:21:45; Dark ; 46.5; 86; 35Eta Oph ; 2.43; 10200;occ; 93; 0;41493
12; 5624.4; 05-FEB-2010 20:26:17; Dark ; 62.0; 16; 21Alp Sco ; 1.02; 3000;occ; 124; 0;41493
13; 6192.3; 05-FEB-2010 20:35:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41493
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15; 6516.5; 05-FEB-2010 20:41:09; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;41493
16; 6600.0; 05-FEB-2010 20:42:33; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41493
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3; 158.6; 06-FEB-2010 01:37:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41497
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7; 846.3; 06-FEB-2010 01:49:02; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41497
8; 948.6; 06-FEB-2010 01:50:45; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;41497
9; 1104.3; 06-FEB-2010 01:53:20; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;41497
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3; -1215.4; 06-FEB-2010 02:55:17; Bright; 41.0; 59; 55Alp Oph ; 2.08; 8900;occ; 82; 0;41497
4; -1085.4; 06-FEB-2010 02:57:27; Bright; 41.0; 126; 60Bet Oph ; 2.77; 4250;occ; 82; 0;41497
5; -681.3; 06-FEB-2010 03:04:11; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;41497
6; -305.9; 06-FEB-2010 03:10:26; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;41497
7; 159.3; 06-FEB-2010 03:18:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41498
8; 310.7; 06-FEB-2010 03:20:43; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41498
9; 483.0; 06-FEB-2010 03:23:35; Dark ; 45.5; 20; Bet Cru ; 1.25; 30000;occ; 91; 0;41498
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12; 948.6; 06-FEB-2010 03:31:21; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;41498
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14; 2386.1; 06-FEB-2010 03:55:18; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;41498
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3; -1215.3; 06-FEB-2010 04:35:53; Bright; 42.0; 59; 55Alp Oph ; 2.08; 8900;occ; 84; 0;41498
4; -1085.2; 06-FEB-2010 04:38:03; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41498
5; -680.9; 06-FEB-2010 04:44:47; Dark ; 47.5; 86; 35Eta Oph ; 2.43; 10200;occ; 95; 0;41498
6; -538.5; 06-FEB-2010 04:47:09; Dark ; 43.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 86; 0;41498
7; -407.5; 06-FEB-2010 04:49:20; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;41498
8; 160.0; 06-FEB-2010 04:58:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41499
9; 311.3; 06-FEB-2010 05:01:19; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41499
10; 483.9; 06-FEB-2010 05:04:12; Dark ; 41.0; 20; Bet Cru ; 1.25; 30000;occ; 82; 0;41499
11; 568.0; 06-FEB-2010 05:05:36; Dark ; 50.5; 64; Gam Cen ; 2.20; 10600;occ; 101; 0;41499
12; 846.8; 06-FEB-2010 05:10:15; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;41499
13; 948.9; 06-FEB-2010 05:11:57; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;41499
14; 1104.7; 06-FEB-2010 05:14:33; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;41499
15; 2386.4; 06-FEB-2010 05:35:54; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;41499
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2; 1996.5; 06-FEB-2010 20:34:48; Dark ; 49.0; 8; 10Alp CMi ; 0.40; 6500;occ; 98; 0;41508
3; 4084.5; 06-FEB-2010 21:09:36; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;41508
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2; 317.4; 06-FEB-2010 21:47:25; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41509
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11; 846.9; 06-FEB-2010 08:31:27; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;41501
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13; 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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13; 1132.8; 12-FEB-2010 23:53:05; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;41596
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19; 4077.7; 13-FEB-2010 00:42:10; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;41596
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23; 4857.8; 13-FEB-2010 00:55:10; Bright; 46.5; 59; 55Alp Oph ; 2.08; 8900;occ; 93; 0;41596
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3; 556.0; 12-FEB-2010 10:18:41; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;41588
4; 642.5; 12-FEB-2010 10:20:07; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;41588
5; 931.7; 12-FEB-2010 10:24:56; Dark ; 36.5; 91; Kap Vel ; 2.49; 26000;occ; 73; 0;41588
6; 1130.6; 12-FEB-2010 10:28:15; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;41588
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2; 2005.0; 12-FEB-2010 10:42:50; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;41588
3; 2385.4; 12-FEB-2010 10:49:10; Bright; 39.5; 17; 78Bet Gem ; 1.16; 4500;occ; 79; 0;41588
4; 3430.0; 12-FEB-2010 11:06:35; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;41588
5; 3860.2; 12-FEB-2010 11:13:45; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;41588
6; 4078.7; 12-FEB-2010 11:17:23; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;41588
7; 4324.3; 12-FEB-2010 11:21:29; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;41588
8; 4734.6; 12-FEB-2010 11:28:19; Bright; 33.0; 168; 17Zet Aql ; 2.99; 11000;occ; 66; 0;41588
9; 4854.7; 12-FEB-2010 11:30:19; Bright; 45.5; 59; 55Alp Oph ; 2.08; 8900;occ; 91; 0;41588
10; 4988.6; 12-FEB-2010 11:32:33; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;41588
11; 5416.7; 12-FEB-2010 11:39:41; Dark ; 51.5; 86; 35Eta Oph ; 2.43; 10200;occ; 103; 0;41588
12; 5568.0; 12-FEB-2010 11:42:13; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;41588

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 15; 5875.2; 12-FEB-2010 11:47:20; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;41588
 16; 5963.6; 12-FEB-2010 11:48:48; Dark ; 49.5; 141; Bet Ara ; 2.84; 4600;occ; 99; 0;41588
 17; 6067.8; 12-FEB-2010 11:50:32; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;41588
 18; 6263.1; 12-FEB-2010 11:53:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41588
 19; 6402.5; 12-FEB-2010 11:56:07; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41588
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 13; 5417.5; 12-FEB-2010 13:20:18; Dark ; 50.5; 86; 35Eta Oph ; 2.43; 10200;occ; 101; 0;41589
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 22; 6592.5; 12-FEB-2010 13:39:53; Dark ; 53.0; 12; Alp1Cru ; 0.77; 30000;occ; 106; 0;41589
 23; 6679.8; 12-FEB-2010 13:41:20; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41589
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 25; 7167.2; 12-FEB-2010 13:49:28; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;41589
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 13; 5418.5; 12-FEB-2010 15:00:55; Dark ; 50.5; 86; 35Eta Oph ; 2.43; 10200;occ; 101; 0;41590
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 22; 6680.8; 12-FEB-2010 15:21:57; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;41590
 23; 6968.3; 12-FEB-2010 15:26:45; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;41590
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20; 6681.7; 12-FEB-2010 17:02:34; Dark ; 49.5; 64; Gam Cen ; 2.20; 10600;occ; 99; 0;41591
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22; 7167.7; 12-FEB-2010 17:10:40; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;41591

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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
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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
8; 5453.5; 15-FEB-2010 15:07:14; Dark ; 48.5; 86; 35Eta Oph ; 2.43; 10200;occ; 97; 0;41633
9; 5583.9; 15-FEB-2010 15:09:25; Dark ; 43.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 86; 0;41633
10; 5713.1; 15-FEB-2010 15:11:34; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;41633
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
20; 6715.1; 15-FEB-2010 17:08:52; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41634
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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2; 1739.7; 15-FEB-2010 17:26:32; Dark ; 50.5; 48; 30Alp Hya ; 1.98; 4100;occ; 101; 0;41635

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4; 3555.2; 15-FEB-2010 17:56:48; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;41635
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
8; 5012.5; 15-FEB-2010 18:21:05; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;41635
9; 5455.1; 15-FEB-2010 18:28:28; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;41635
10; 5584.6; 15-FEB-2010 18:30:37; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;41635
11; 5714.2; 15-FEB-2010 18:32:47; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;41635
12; 5790.2; 15-FEB-2010 18:34:03; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;41635
13; 5895.8; 15-FEB-2010 18:35:48; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;41635
14; 5982.2; 15-FEB-2010 18:37:15; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;41635
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2; 1740.4; 16-FEB-2010 20:16:08; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;41651
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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2; 62.0; 16-FEB-2010 21:28:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41652
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
10; 3549.9; 16-FEB-2010 22:26:53; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;41652
11; 4071.8; 16-FEB-2010 22:35:35; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;41652
12; 4330.5; 16-FEB-2010 22:39:54; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;41652
13; 5021.8; 16-FEB-2010 22:51:25; Dark ; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 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
10; 3549.6; 17-FEB-2010 00:07:29; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;41653
11; 4071.6; 17-FEB-2010 00:16:11; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41653
12; 4330.6; 17-FEB-2010 00:20:30; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41653
13; 5022.3; 17-FEB-2010 00:32:01; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;41653
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2; -1021.7; 16-FEB-2010 01:03:31; Dark ; 50.5; 126; 60Bet Oph ; 2.77; 4250;occ; 101; 0;41639
3; -577.5; 16-FEB-2010 01:10:55; Dark ; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;41639
4; -319.5; 16-FEB-2010 01:15:13; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;41639
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2; 323.3; 16-FEB-2010 11:29:31; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;41646
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
5; 585.2; 16-FEB-2010 11:33:53; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;41646
6; 688.2; 16-FEB-2010 11:35:36; Dark ; 51.5; 64; Gam Cen ; 2.20; 10600;occ; 103; 0;41646
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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2; 3551.9; 16-FEB-2010 12:23:20; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41646
3; 4072.4; 16-FEB-2010 12:32:00; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;41646
4; 4329.9; 16-FEB-2010 12:36:18; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41646
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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6; 5720.7; 16-FEB-2010 12:59:28; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41646
7; 6095.4; 16-FEB-2010 13:05:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41646
8; 6359.6; 16-FEB-2010 13:10:07; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;41646
9; 6438.3; 16-FEB-2010 13:11:26; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;41646
10; 6522.0; 16-FEB-2010 13:12:50; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41646
11; 6621.0; 16-FEB-2010 13:14:29; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;41646
12; 6724.1; 16-FEB-2010 13:16:12; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;41646
13; 6965.3; 16-FEB-2010 13:20:13; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;41646
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2; 3551.8; 16-FEB-2010 14:03:55; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;41647
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
5; 5019.2; 16-FEB-2010 14:28:23; Dark ; 50.5; 126; 60Bet Oph ; 2.77; 4250;occ; 101; 0;41647
6; 5721.4; 16-FEB-2010 14:40:05; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;41647
7; 6095.9; 16-FEB-2010 14:46:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41647
8; 6360.1; 16-FEB-2010 14:50:44; Dark ; 45.5; 4; Alp1Cen ;-0.01; 5800;occ; 91; 0;41647
9; 6439.0; 16-FEB-2010 14:52:03; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41647
10; 6522.5; 16-FEB-2010 14:53:26; Dark ; 46.0; 77; Eps Cen ; 2.30; 28000;occ; 92; 0;41647
11; 6620.9; 16-FEB-2010 14:55:05; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;41647
12; 6725.3; 16-FEB-2010 14:56:49; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41647
13; 6965.9; 16-FEB-2010 15:00:49; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;41647
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3; 4072.3; 16-FEB-2010 15:53:12; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41648
4; 4330.3; 16-FEB-2010 15:57:30; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;41648
5; 5019.7; 16-FEB-2010 16:08:59; Dark ; 50.5; 126; 60Bet Oph ; 2.77; 4250;occ; 101; 0;41648
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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9; 6096.5; 16-FEB-2010 16:26:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41648
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11; 6439.6; 16-FEB-2010 16:32:39; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41648
12; 6523.3; 16-FEB-2010 16:34:03; Dark ; 45.5; 77; Eps Cen ; 2.30; 28000;occ; 91; 0;41648
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3; 4072.2; 16-FEB-2010 17:33:48; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;41649
4; 4330.7; 16-FEB-2010 17:38:06; Bright; 42.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 84; 0;41649
5; 5020.2; 16-FEB-2010 17:49:36; Dark ; 52.5; 126; 60Bet Oph ; 2.77; 4250;occ; 105; 0;41649
6; 5590.1; 16-FEB-2010 17:59:06; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;41649
7; 5722.6; 16-FEB-2010 18:01:18; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41649
8; 6097.0; 16-FEB-2010 18:07:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41649
9; 6361.3; 16-FEB-2010 18:11:57; Dark ; 54.0; 4; Alp1Cen ;-0.01; 5800;occ; 108; 0;41649
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11; 6524.2; 16-FEB-2010 18:14:40; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41649
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13; 6726.4; 16-FEB-2010 18:18:02; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;41649
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5; 5027.5; 17-FEB-2010 15:37:30; Dark ; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;41662
6; 5730.2; 17-FEB-2010 15:49:13; Dark ; 49.5; 25; 35Lam Sco ; 1.62; 28000;occ; 99; 0;41662
7; 5810.4; 17-FEB-2010 15:50:33; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;41662
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6; 5731.2; 17-FEB-2010 17:29:50; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;41663
7; 5811.3; 17-FEB-2010 17:31:10; Dark ; 52.0; 75; 26Eps Sco ; 2.29; 4250;occ; 104; 0;41663
8; 6103.7; 17-FEB-2010 17:36:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41663
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13; 6737.2; 17-FEB-2010 17:46:36; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;41663
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11; 6536.0; 17-FEB-2010 19:23:51; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41664
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13; 6737.8; 17-FEB-2010 19:27:12; Dark ; 51.0; 64; Gam Cen ; 2.20; 10600;occ; 102; 0;41664
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4; 4069.8; 17-FEB-2010 20:23:20; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;41665
5; 4331.7; 17-FEB-2010 20:27:42; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;41665
6; 5029.5; 17-FEB-2010 20:39:20; Dark ; 50.0; 126; 60Bet Oph ; 2.77; 4250;occ; 100; 0;41665
7; 5732.3; 17-FEB-2010 20:51:03; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;41665
8; 5813.0; 17-FEB-2010 20:52:24; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;41665
9; 6104.6; 17-FEB-2010 20:57:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41665
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11; 6449.8; 17-FEB-2010 21:03:00; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;41665
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13; 6629.9; 17-FEB-2010 21:06:00; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41665
14; 6738.3; 17-FEB-2010 21:07:49; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;41665

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5; 415.3; 18-FEB-2010 00:24:14; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;41668
6; 501.9; 18-FEB-2010 00:25:40; Dark ; 46.5; 77; Eps Cen ; 2.30; 28000;occ; 93; 0;41668
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5; 416.0; 18-FEB-2010 02:04:50; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41669
6; 502.9; 18-FEB-2010 02:06:17; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;41669
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9; 938.8; 18-FEB-2010 02:13:33; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41669
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5; -301.2; 18-FEB-2010 03:33:29; Dark ; 50.0; 25; 35Lam Sco ; 1.62; 28000;occ; 100; 0;41669
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7; 70.7; 18-FEB-2010 03:39:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41670
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9; 416.8; 18-FEB-2010 03:45:27; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;41670
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13; 939.6; 18-FEB-2010 03:54:10; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;41670
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5; 71.2; 18-FEB-2010 05:20:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41671
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8; 504.5; 18-FEB-2010 05:27:31; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;41671
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7; 601.1; 18-FEB-2010 22:15:06; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;41681
8; 713.8; 18-FEB-2010 22:16:59; Dark ; 50.5; 64; Gam Cen ; 2.20; 10600;occ; 101; 0;41681
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5; 71.7; 18-FEB-2010 07:00:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41672
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6; 5819.3; 18-FEB-2010 08:36:41; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;41672
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8; 6454.5; 18-FEB-2010 08:47:17; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41672
9; 6541.9; 18-FEB-2010 08:48:44; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;41672
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3; 4068.8; 18-FEB-2010 09:48:07; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41673
4; 4332.3; 18-FEB-2010 09:52:30; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41673
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7; 6108.6; 18-FEB-2010 10:22:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41673
8; 6375.7; 18-FEB-2010 10:26:34; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;41673
9; 6455.1; 18-FEB-2010 10:27:53; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41673
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12; 6744.7; 18-FEB-2010 10:32:43; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41673
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3; 4068.4; 18-FEB-2010 11:28:42; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41674
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9; 6455.5; 18-FEB-2010 12:08:29; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;41674
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3; 4068.4; 18-FEB-2010 13:09:18; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41675
4; 4332.3; 18-FEB-2010 13:13:42; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;41675
5; 5738.6; 18-FEB-2010 13:37:08; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;41675
6; 5821.9; 18-FEB-2010 13:38:32; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;41675
7; 6109.6; 18-FEB-2010 13:43:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41675
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11; 6634.9; 18-FEB-2010 13:52:05; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;41675
12; 6746.3; 18-FEB-2010 13:53:56; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;41675
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3; 4068.4; 18-FEB-2010 14:49:54; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;41676
4; 4332.6; 18-FEB-2010 14:54:18; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;41676
5; 5739.4; 18-FEB-2010 15:17:45; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41676
6; 5822.8; 18-FEB-2010 15:19:08; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;41676
7; 6110.1; 18-FEB-2010 15:23:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41676
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; 4068.3; 18-FEB-2010 16:30:30; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41677
4; 4332.7; 18-FEB-2010 16:34:54; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;41677
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6; 5823.6; 18-FEB-2010 16:59:45; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;41677
7; 6111.3; 18-FEB-2010 17:04:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41677
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3; 4067.8; 18-FEB-2010 18:11:05; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;41678
4; 4332.5; 18-FEB-2010 18:15:30; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41678
5; 5740.4; 18-FEB-2010 18:38:58; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;41678
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3; 422.7; 18-FEB-2010 20:31:32; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;41680
4; 511.0; 18-FEB-2010 20:33:01; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41680
5; 600.7; 18-FEB-2010 20:34:30; Dark ; 52.0; 12; Alp1Cru ; 0.77; 30000;occ; 104; 0;41680
6; 713.3; 18-FEB-2010 20:36:23; Dark ; 52.5; 64; Gam Cen ; 2.20; 10600;occ; 105; 0;41680
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8; 715.2; 19-FEB-2010 01:38:12; Dark ; 49.5; 64; Gam Cen ; 2.20; 10600;occ; 99; 0;41683
9; 944.8; 19-FEB-2010 01:42:02; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;41683
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13; 4333.0; 19-FEB-2010 02:38:30; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41683
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3; -1702.7; 19-FEB-2010 04:19:06; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41684
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9; 514.9; 19-FEB-2010 04:56:04; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41685
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3; 3431.5; 19-FEB-2010 20:50:04; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;41694
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8; 431.9; 19-FEB-2010 21:40:40; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41695
9; 607.9; 19-FEB-2010 21:43:36; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;41695
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5; 79.4; 19-FEB-2010 06:29:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41686
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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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9; 6383.5; 19-FEB-2010 08:14:29; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;41686
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14; 6982.7; 19-FEB-2010 08:24:28; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;41686
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7; 5832.7; 19-FEB-2010 09:45:54; Dark ; 61.0; 75; 26Eps Sco ; 2.29; 4250;occ; 122; 0;41687
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9; 6384.0; 19-FEB-2010 09:55:05; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;41687
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12; 6640.4; 19-FEB-2010 09:59:21; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41687
13; 6754.8; 19-FEB-2010 10:01:16; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41687
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4; 4333.4; 19-FEB-2010 11:01:30; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41688
5; 4757.1; 19-FEB-2010 11:08:34; Bright; 53.0; 168; 17Zet Aql ; 2.99; 11000;occ; 106; 0;41688
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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
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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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11; 6554.6; 19-FEB-2010 13:19:07; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;41689
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 12; 6757.0; 19-FEB-2010 15:03:06; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41690
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 5; 4758.3; 19-FEB-2010 16:10:23; Bright; 52.5; 168; 17Zet Aql ; 2.99; 11000;occ; 105; 0;41691
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 7; 5836.4; 19-FEB-2010 16:28:21; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;41691
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 9; 6244.5; 19-FEB-2010 16:35:09; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;41691
 10; 6386.4; 19-FEB-2010 16:37:31; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;41691
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 7; 4333.7; 19-FEB-2010 17:43:54; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41692
 8; 4758.5; 19-FEB-2010 17:50:59; Bright; 54.0; 168; 17Zet Aql ; 2.99; 11000;occ; 108; 0;41692
 9; 5334.4; 19-FEB-2010 18:00:35; Dark ; 42.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 84; 0;41692
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 12; 5837.4; 19-FEB-2010 18:08:58; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;41692
 13; 6007.2; 19-FEB-2010 18:11:48; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;41692
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 16; 6466.8; 19-FEB-2010 18:19:27; Dark ; 47.5; 10; Bet Cen ; 0.61; 28000;occ; 95; 0;41692
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6; 4760.8; 20-FEB-2010 10:37:01; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;41702
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9; 4046.9; 26-FEB-2010 13:57:49; Bright; 49.0; 130; 23Bet Dra ; 2.80; 5800;occ; 98; 0;41790
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7;	509.6;	28-FEB-2010	21:59:13;	Dark	;	51.0;	10;	Bet Cen	;	0.61;	28000;occ;	102;	0;41824
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15;	3064.0;	28-FEB-2010	22:41:48;	Bright;	;	40.5;	36;	50Alp UMa	;	1.80;	6300;occ;	81;	0;41824
16;	3493.5;	28-FEB-2010	22:48:57;	Bright;	;	38.5;	60;	7Bet UMi	;	2.08;	3950;occ;	76;	0;41824
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 1; -543.4; 28-FEB-2010 23:22:16; Dark ; 45.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 90; 0;41824
 2; -357.5; 28-FEB-2010 23:25:22; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;41824
 3; -187.9; 28-FEB-2010 23:28:12; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;41824
 4; -2.4; 28-FEB-2010 23:31:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41824
 5; 292.7; 28-FEB-2010 23:36:12; Dark ; 49.5; 131; Gam Lup ; 2.80; 26000;occ; 99; 0;41825
 6; 430.9; 28-FEB-2010 23:38:31; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;41825
 7; 510.1; 28-FEB-2010 23:39:50; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;41825
 8; 617.1; 28-FEB-2010 23:41:37; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41825
 9; 726.9; 28-FEB-2010 23:43:27; Dark ; 40.5; 26; Gam Cru ; 1.62; 2900;occ; 81; 0;41825
10; 811.1; 28-FEB-2010 23:44:51; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;41825
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12; 2282.6; 01-MAR-2010 00:09:22; Bright; 46.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 92; 0;41825
13; 2820.2; 01-MAR-2010 00:18:20; Bright; 44.5; 174; 52Psi UMa ; 3.00; 4400;occ; 89; 0;41825
14; 2983.9; 01-MAR-2010 00:21:04; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;41825
15; 3063.4; 01-MAR-2010 00:22:23; Bright; 59.0; 36; 50Alp UMa ; 1.80; 6300;occ; 118; 0;41825
16; 3493.5; 01-MAR-2010 00:29:33; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41825
17; 3775.9; 01-MAR-2010 00:34:16; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 0;41825
18; 4038.7; 01-MAR-2010 00:38:38; Bright; 47.0; 130; 23Bet Dra ; 2.80; 5800;occ; 94; 0;41825
19; 4212.2; 01-MAR-2010 00:41:32; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;41825
20; 4341.3; 01-MAR-2010 00:43:41; Bright; 44.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 89; 0;41825
21; 4796.5; 01-MAR-2010 00:51:16; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;41825

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