

GOMOS Daily Report 22-JAN-2010

Level 0 and Level 1 products

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

Item	Value
Time of report generation	24JAN2010 04:36:56
Data source version	GOMOS/5.00L04
Start time of products	22JAN2010 00:02:03
Stop time of products	22JAN2010 23:59:14
Store outputs in DB	Yes
Nb of level 1b prods	171
Nb of prods with errors	1

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

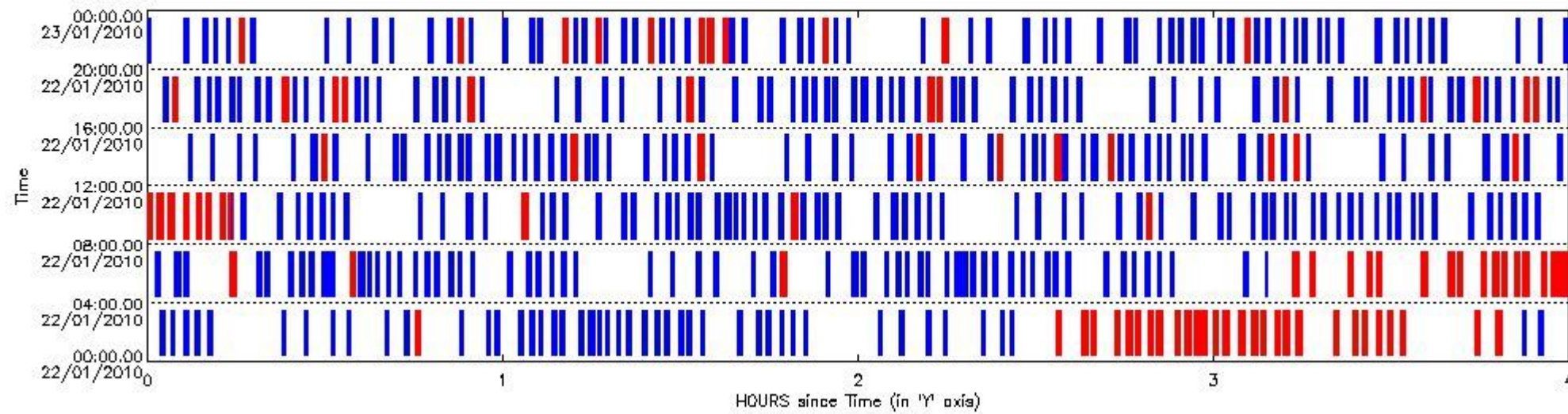
2.1 Level 0 products arrived in PCF (see template [here](#))

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
22-JAN-2010 00:45:03	55AlpOph	59	41281
22-JAN-2010 02:33:17	13ZetOph	98	41282
22-JAN-2010 02:37:47	21AlpSco	16	41282
22-JAN-2010 02:39:17	26EpsSco	75	41282
22-JAN-2010 02:43:16	GamLup	131	41282
22-JAN-2010 02:45:13	BetLup	109	41282
22-JAN-2010 02:46:42	AlpLup	78	41282
22-JAN-2010 02:48:55	Alp1Cen	4	41283
22-JAN-2010 02:50:16	EpsCen	77	41283
22-JAN-2010 02:53:27	Alp1Cru	12	41283
22-JAN-2010 02:55:05	DSA1053	0	41283
22-JAN-2010 02:56:34	TheCar	124	41283
22-JAN-2010 02:57:53	UpsCar	159	41283
22-JAN-2010 02:59:47	lotCar	71	41283
22-JAN-2010 03:01:36	DelVel	46	41283

22-JAN-2010 03:04:14	Gam2Vel	34	41283
22-JAN-2010 03:06:21	ZetPup	70	41283
22-JAN-2010 03:07:54	PiPup	117	41283
22-JAN-2010 03:10:23	21EpsCMa	23	41283
22-JAN-2010 03:11:46	24Omi2CMa	179	41283
22-JAN-2010 03:13:57	9AlpCMa	1	41283
22-JAN-2010 03:20:13	10AlpCMi	8	41283
22-JAN-2010 03:23:21	24GamGem	44	41283
22-JAN-2010 03:25:07	13MuGem	151	41283
22-JAN-2010 03:27:22	78BetGem	17	41283
22-JAN-2010 03:29:19	37TheAur	107	41283
22-JAN-2010 03:31:28	34BetAur	42	41283
22-JAN-2010 03:44:00	1AlpUMi	49	41283
22-JAN-2010 03:47:40	7BetUMi	60	41283
22-JAN-2010 04:13:54	13ZetOph	98	41283
22-JAN-2010 04:34:03	Alp1Cru	12	41284
22-JAN-2010 05:46:52	55AlpOph	59	41284
22-JAN-2010 07:13:21	14EtaDra	119	41285
22-JAN-2010 07:16:10	23BetDra	130	41285
22-JAN-2010 07:22:34	40ZetHer	133	41285
22-JAN-2010 07:25:50	27BetHer	127	41285
22-JAN-2010 07:27:28	55AlpOph	59	41285
22-JAN-2010 07:35:06	13ZetOph	98	41285
22-JAN-2010 07:39:36	21AlpSco	16	41285
22-JAN-2010 07:41:06	26EpsSco	75	41285
22-JAN-2010 07:45:05	GamLup	131	41285
22-JAN-2010 07:47:03	BetLup	109	41285
22-JAN-2010 07:48:32	AlpLup	78	41285
22-JAN-2010 07:50:45	Alp1Cen	4	41286
22-JAN-2010 07:52:06	EpsCen	77	41286
22-JAN-2010 07:55:16	Alp1Cru	12	41286
22-JAN-2010 07:56:56	DSA1053	0	41286
22-JAN-2010 07:58:23	TheCar	124	41286
22-JAN-2010 07:59:42	UpsCar	159	41286
22-JAN-2010 08:01:36	lotCar	71	41286
22-JAN-2010 08:03:25	DelVel	46	41286
22-JAN-2010 08:06:03	Gam2Vel	34	41286
22-JAN-2010 08:08:10	ZetPup	70	41286
22-JAN-2010 08:09:42	PiPup	117	41286
22-JAN-2010 08:12:11	21EpsCMa	23	41286
22-JAN-2010 08:13:35	24Omi2CMa	179	41286
22-JAN-2010 09:03:10	40ZetHer	133	41286
22-JAN-2010 09:48:46	ZetPup	70	41287
22-JAN-2010 10:48:40	55AlpOph	59	41287
22-JAN-2010 12:29:17	55AlpOph	59	41288
22-JAN-2010 13:11:31	PiPup	117	41289
22-JAN-2010 13:32:55	37TheAur	107	41289
22-JAN-2010 14:09:53	55AlpOph	59	41289
22-JAN-2010 14:23:31	26EpsSco	75	41289
22-JAN-2010 14:33:10	Alp1Cen	4	41290
22-JAN-2010 14:42:07	UpsCar	159	41290
22-JAN-2010 15:09:18	13MuGem	151	41290
22-JAN-2010 15:13:31	37TheAur	107	41290
22-JAN-2010 15:50:29	55AlpOph	59	41290
22-JAN-2010 16:04:08	26EpsSco	75	41290
22-JAN-2010 16:22:43	UpsCar	159	41291
22-JAN-2010 16:31:11	ZetPup	70	41291
22-JAN-2010 16:32:43	PiPup	117	41291
22-JAN-2010 16:54:07	37TheAur	107	41291

22-JAN-2010 17:31:05	55AlpOph	59	41291
22-JAN-2010 18:11:47	ZetPup	70	41292
22-JAN-2010 18:13:19	PiPup	117	41292
22-JAN-2010 19:11:41	55AlpOph	59	41292
22-JAN-2010 19:35:00	Alp1Cen	4	41293
22-JAN-2010 19:43:56	UpsCar	159	41293
22-JAN-2010 19:52:24	ZetPup	70	41293
22-JAN-2010 19:53:55	PiPup	117	41293
22-JAN-2010 20:15:19	37TheAur	107	41293
22-JAN-2010 20:52:17	55AlpOph	59	41293
22-JAN-2010 21:09:58	GamLup	131	41293
22-JAN-2010 21:15:36	Alp1Cen	4	41294
22-JAN-2010 21:24:32	UpsCar	159	41294
22-JAN-2010 21:33:00	ZetPup	70	41294
22-JAN-2010 21:34:31	PiPup	117	41294
22-JAN-2010 21:37:00	21EpsCMa	23	41294
22-JAN-2010 21:53:53	78BetGem	17	41294
22-JAN-2010 22:14:13	7BetUMi	60	41294
22-JAN-2010 23:05:08	UpsCar	159	41295

2.4 Summary of processed GOM_TRA_1P products

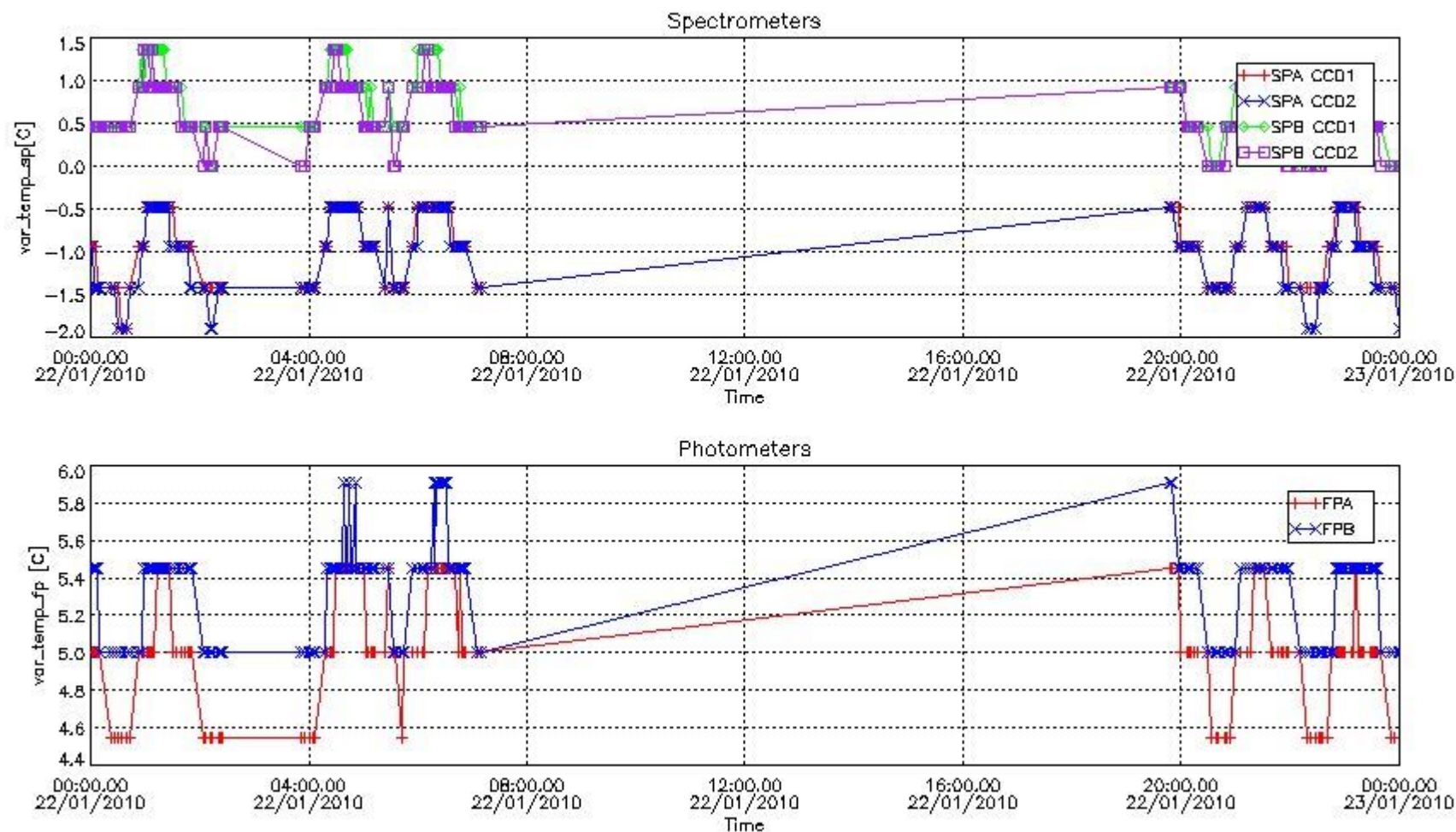
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100122_000203_000000492086_00145_41281_5968.N1	22-JAN-2010 00:02:03	Bright	49.000	44	24Gam Gem	1.9280	11000.	98	41281	No
2	GOM_TRA_1PNPDE20100122_000349_000000392086_00145_41281_5969.N1	22-JAN-2010 00:03:49	Bright	39.000	151	13Mu Gem	2.8900	3000.0	78	41281	No
3	GOM_TRA_1PNPDE20100122_000605_000000462086_00145_41281_5970.N1	22-JAN-2010 00:06:05	Bright	46.000	17	78Bet Gem	1.1610	4500.0	92	41281	No
4	GOM_TRA_1PNPDE20100122_000801_000000362086_00145_41281_5971.N1	22-JAN-2010 00:08:01	Bright	36.000	107	37The Aur	2.6490	11000.	72	41281	No
5	GOM_TRA_1PNPDE20100122_001010_000000372086_00145_41281_5972.N1	22-JAN-2010 00:10:10	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	41281	No
6	GOM_TRA_1PNPDE20100122_002243_000000342086_00145_41281_5973.N1	22-JAN-2010 00:22:43	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	41281	No
7	GOM_TRA_1PNPDE20100122_002622_000000382086_00145_41281_5974.N1	22-JAN-2010 00:26:22	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	41281	No
8	GOM_TRA_1PNPDE20100122_003052_000000382086_00145_41281_5975.N1	22-JAN-2010 00:30:52	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	41281	No
9	GOM_TRA_1PNPDE20100122_003341_000000382086_00145_41281_5976.N1	22-JAN-2010 00:33:41	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	41281	No
10	GOM_TRA_1PNPDE20100122_004004_000000382086_00145_41281_5977.N1	22-JAN-2010 00:40:04	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	41281	No
11	GOM_TRA_1PNPDE20100122_004319_000000402086_00145_41281_5978.N1	22-JAN-2010 00:43:19	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	41281	No
12	GOM_TRA_1PNPDE20100122_005235_000000452086_00145_41281_5979.N1	22-JAN-2010 00:52:35	Bright	45.000	98	13Zet Oph	2.5710	30000.	90	41281	No
13	GOM_TRA_1PNPDE20100122_005705_000000472086_00145_41281_5977.N1	22-JAN-2010 00:57:05	Twilight	47.000	16	21Alp Sco	1.0200	3000.0	94	41281	No
14	GOM_TRA_1PNPDE20100122_005835_000000442086_00145_41281_5978.N1	22-JAN-2010 00:58:35	Twilight	44.000	75	26Eps Sco	2.2910	4250.0	88	41281	No
15	GOM_TRA_1PNPDE20100122_010234_000000422086_00145_41281_5979.N1	22-JAN-2010 01:02:34	Dark	41.500	131	Gam Lup	2.8000	26000.	83	41281	No
16	GOM_TRA_1PNPDE20100122_010430_000000442086_00145_41281_5980.N1	22-JAN-2010 01:04:30	Dark	43.500	109	Bet Lup	2.6770	26000.	87	41281	No
17	GOM_TRA_1PNPDE20100122_010600_000000422086_00145_41281_5981.N1	22-JAN-2010 01:06:00	Dark	41.500	78	Alp Lup	2.3040	28000.	83	41281	No
18	GOM_TRA_1PNPDE20100122_010813_000000452086_00146_41282_5982.N1	22-JAN-2010 01:08:13	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	41282	No
19	GOM_TRA_1PNPDE20100122_010934_000000422086_00146_41282_5983.N1	22-JAN-2010 01:09:34	Dark	41.500	77	Eps Cen	2.3030	28000.	83	41282	No
20	GOM_TRA_1PNPDE20100122_011245_000000492086_00146_41282_5984.N1	22-JAN-2010 01:12:45	Dark	48.500	12	Alp1Cru	0.77500	30000.	97	41282	No
21	GOM_TRA_1PNPDE20100122_011552_000000402086_00146_41282_5985.N1	22-JAN-2010 01:15:52	Dark	39.500	124	The Car	2.7640	30000.	79	41282	No
22	GOM_TRA_1PNPDE20100122_011711_000000432086_00146_41282_5986.N1	22-JAN-2010 01:17:11	Dark	42.500	159	Ups Car	2.9200	7200.0	85	41282	No
23	GOM_TRA_1PNPDE20100122_011905_000000442086_00146_41282_5987.N1	22-JAN-2010 01:19:05	Dark	44.000	71	Iot Car	2.2460	7700.0	88	41282	No
24	GOM_TRA_1PNPDE20100122_012054_000000442086_00146_41282_5988.N1	22-JAN-2010 01:20:54	Dark	43.500	46	Del Vel	1.9540	10600.	87	41282	No
25	GOM_TRA_1PNPDE20100122_012332_000000452086_00146_41282_5989.N1	22-JAN-2010 01:23:32	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	41282	No
26	GOM_TRA_1PNPDE20100122_012539_000000432086_00146_41282_5990.N1	22-JAN-2010 01:25:39	Straylight	43.000	70	Zet Pup	2.2460	39000.	86	41282	No
27	GOM_TRA_1PNPDE20100122_012712_000000442086_00146_41282_5991.N1	22-JAN-2010 01:27:12	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	41282	No
28	GOM_TRA_1PNPDE20100122_012941_000000442086_00146_41282_5992.N1	22-JAN-2010 01:29:41	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	41282	No
29	GOM_TRA_1PNPDE20100122_013105_000000422086_00146_41282_5993.N1	22-JAN-2010 01:31:05	Straylight	41.500	179	24Omi2CMa	3.0320	24000.	83	41282	No
30	GOM_TRA_1PNPDE20100122_013315_000000452086_00146_41282_5994.N1	22-JAN-2010 01:33:15	Straylight	45.000	1	9Alp CMa	-1.4400	11000.	90	41282	No
31	GOM_TRA_1PNPDE20100122_013931_000000502086_00146_41282_5995.N1	22-JAN-2010 01:39:31	Twilight	49.500	8	10Alp CMi	0.40000	6500.0	99	41282	No
32	GOM_TRA_1PNPDE20100122_014239_000000482086_00146_41282_5996.N1	22-JAN-2010 01:42:39	Bright	47.500	44	24Gam Gem	1.9280	11000.	95	41282	No
33	GOM_TRA_1PNPDE20100122_014425_000000422086_00146_41282_5997.N1	22-JAN-2010 01:44:25	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	41282	No
34	GOM_TRA_1PNPDE20100122_014641_000000462086_00146_41282_5998.N1	22-JAN-2010 01:46:41	Bright	45.500	17	78Bet Gem	1.1610	4500.0	91	41282	No
35	GOM_TRA_1PNPDE20100122_014837_000000362086_00146_41282_5999.N1	22-JAN-2010 01:48:37	Bright	36.000	107	37The Aur	2.6490	11000.	72	41282	No

36	GOM_TRA_1PNPDE20100122_015046_000000372086_00146_41282_6000.N1	22-JAN-2010 01:50:46	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	41282	No
37	GOM_TRA_1PNPDE20100122_020319_000000362086_00146_41282_6001.N1	22-JAN-2010 02:03:19	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	41282	No
38	GOM_TRA_1PNPDE20100122_020659_000000412086_00146_41282_6002.N1	22-JAN-2010 02:06:59	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	41282	No
39	GOM_TRA_1PNPDE20100122_021128_000000392086_00146_41282_6003.N1	22-JAN-2010 02:11:28	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	41282	No
40	GOM_TRA_1PNPDE20100122_021417_000000352086_00146_41282_6004.N1	22-JAN-2010 02:14:17	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	41282	No
41	GOM_TRA_1PNPDE20100122_022040_000000382086_00146_41282_6005.N1	22-JAN-2010 02:20:40	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	41282	No
42	GOM_TRA_1PNPDE20100122_022356_000000412086_00146_41282_6006.N1	22-JAN-2010 02:23:56	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	41282	No
43	GOM_TRA_1PNPDE20100122_022534_000000342086_00146_41282_6007.N1	22-JAN-2010 02:25:34	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	41282	No
44	GOM_TRA_1PNPDE20100122_035204_000000392086_00147_41283_6003.N1	22-JAN-2010 03:52:04	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	41283	No
45	GOM_TRA_1PNPDE20100122_035453_000000382086_00147_41283_6004.N1	22-JAN-2010 03:54:53	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	41283	No
46	GOM_TRA_1PNPDE20100122_040116_000000392086_00147_41283_6005.N1	22-JAN-2010 04:01:16	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	41283	No
47	GOM_TRA_1PNPDE20100122_040432_000000582086_00147_41283_6006.N1	22-JAN-2010 04:04:32	Bright	58.000	127	27Bet Her	2.7810	4700.0	116	41283	No
48	GOM_TRA_1PNPDE20100122_040610_000000412086_00147_41283_6007.N1	22-JAN-2010 04:06:10	Bright	41.000	59	55Alp Oph	2.0800	8900.0	82	41283	No
49	GOM_TRA_1PNPDE20100122_041818_000000502086_00147_41283_6008.N1	22-JAN-2010 04:18:18	Twilight	49.500	16	21Alp Sco	1.0200	3000.0	99	41283	No
50	GOM_TRA_1PNPDE20100122_041948_000000452086_00147_41283_6009.N1	22-JAN-2010 04:19:48	Twilight	44.500	75	26Eps Sco	2.2910	4250.0	89	41283	No
51	GOM_TRA_1PNPDE20100122_042347_000000402086_00147_41283_6010.N1	22-JAN-2010 04:23:47	Dark	40.000	131	Gam Lup	2.8000	26000.	80	41283	No
52	GOM_TRA_1PNPDE20100122_042544_000000432086_00147_41283_6011.N1	22-JAN-2010 04:25:44	Dark	43.000	109	Bet Lup	2.6770	26000.	86	41283	No
53	GOM_TRA_1PNPDE20100122_042714_000000422086_00147_41283_6012.N1	22-JAN-2010 04:27:14	Dark	42.000	78	Alp Lup	2.3040	28000.	84	41283	No
54	GOM_TRA_1PNPDE20100122_042926_000000542086_00148_41284_6013.N1	22-JAN-2010 04:29:26	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	41284	No
55	GOM_TRA_1PNPDE20100122_043047_000000412086_00148_41284_6014.N1	22-JAN-2010 04:30:47	Dark	40.500	77	Eps Cen	2.3030	28000.	81	41284	No
56	GOM_TRA_1PNPDE20100122_043705_000000392086_00148_41284_6015.N1	22-JAN-2010 04:37:05	Dark	38.500	124	The Car	2.7640	30000.	77	41284	No
57	GOM_TRA_1PNPDE20100122_043824_000000382086_00148_41284_6016.N1	22-JAN-2010 04:38:24	Dark	38.000	159	Ups Car	2.9200	7200.0	76	41284	No
58	GOM_TRA_1PNPDE20100122_044018_000000392086_00148_41284_6017.N1	22-JAN-2010 04:40:18	Dark	39.000	71	Iot Car	2.2460	7700.0	78	41284	No
59	GOM_TRA_1PNPDE20100122_044207_000000382086_00148_41284_6018.N1	22-JAN-2010 04:42:07	Dark	37.500	46	Del Vel	1.9540	10600.	75	41284	No
60	GOM_TRA_1PNPDE20100122_044445_000000402086_00148_41284_6019.N1	22-JAN-2010 04:44:45	Dark	39.500	34	Gam2Vel	1.7930	23000.	79	41284	No
61	GOM_TRA_1PNPDE20100122_044652_000000412086_00148_41284_6020.N1	22-JAN-2010 04:46:52	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	41284	No
62	GOM_TRA_1PNPDE20100122_044825_000000422086_00148_41284_6021.N1	22-JAN-2010 04:48:25	Straylight	41.500	117	Pi Pup	2.7060	3800.0	83	41284	No
63	GOM_TRA_1PNPDE20100122_045054_000000402086_00148_41284_6022.N1	22-JAN-2010 04:50:54	Straylight	40.000	23	21Eps CMa	1.5020	26000.	80	41284	No
64	GOM_TRA_1PNPDE20100122_045217_000000402086_00148_41284_6023.N1	22-JAN-2010 04:52:17	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	41284	No
65	GOM_TRA_1PNPDE20100122_045428_000000442086_00148_41284_6024.N1	22-JAN-2010 04:54:28	Straylight	44.000	1	9Alp CMa	-1.4400	11000.	88	41284	No
66	GOM_TRA_1PNPDE20100122_050044_000000472086_00148_41284_6025.N1	22-JAN-2010 05:00:44	Tw_and_stray	47.000	8	10Alp CMi	0.40000	6500.0	94	41284	No
67	GOM_TRA_1PNPDE20100122_050351_000000522086_00148_41284_6026.N1	22-JAN-2010 05:03:51	Bright	52.000	44	24Gam Gem	1.9280	11000.	104	41284	No
68	GOM_TRA_1PNPDE20100122_050537_000000362086_00148_41284_6027.N1	22-JAN-2010 05:05:37	Bright	36.000	151	13Mu Gem	2.8900	3000.0	72	41284	No
69	GOM_TRA_1PNPDE20100122_050752_000000442086_00148_41284_6028.N1	22-JAN-2010 05:07:52	Bright	43.500	17	78Bet Gem	1.1610	4500.0	87	41284	No
70	GOM_TRA_1PNPDE20100122_050950_000000522086_00148_41284_6029.N1	22-JAN-2010 05:09:50	Bright	52.000	107	37The Aur	2.6490	11000.	104	41284	No
71	GOM_TRA_1PNPDE20100122_051159_000000352086_00148_41284_6030.N1	22-JAN-2010 05:11:59	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	41284	No
72	GOM_TRA_1PNPDE20100122_052431_000000362086_00148_41284_6031.N1	22-JAN-2010 05:24:31	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	41284	No
73	GOM_TRA_1PNPDE20100122_052810_000000412086_00148_41284_6031.N1	22-JAN-2010 05:28:10	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	41284	Yes
74	GOM_TRA_1PNPDE20100122_053240_000000382086_00148_41284_6032.N1	22-JAN-2010 05:32:40	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	41284	No
75	GOM_TRA_1PNPDE20100122_053529_000000532086_00148_41284_6033.N1	22-JAN-2010 05:35:29	Bright	52.500	130	23Bet Dra	2.7990	5800.0	105	41284	No
76	GOM_TRA_1PNPDE20100122_054152_000000392086_00148_41284_6034.N1	22-JAN-2010 05:41:52	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	41284	No
77	GOM_TRA_1PNPDE20100122_054508_000000582086_00148_41284_6035.N1	22-JAN-2010 05:45:08	Bright	58.000	127	27Bet Her	2.7810	4700.0	116	41284	No
78	GOM_TRA_1PNPDE20100122_055425_000000472086_00148_41284_6036.N1	22-JAN-2010 05:54:25	Bright	46.500	98	13Zet Oph	2.5710	30000.	93	41284	No
79	GOM_TRA_1PNPDE20100122_055854_000000532086_00148_41284_6037.N1	22-JAN-2010 05:58:54	Twilight	52.500	16	21Alp Sco	1.0200	3000.0	105	41284	No
80	GOM_TRA_1PNPDE20100122_060024_000000432086_00148_41284_6038.N1	22-JAN-2010 06:00:24	Twilight	42.500	75	26Eps Sco	2.2910	4250.0	85	41284	No
81	GOM_TRA_1PNPDE20100122_060423_000000402086_00148_41284_6039.N1	22-JAN-2010 06:04:23	Dark	39.500	131	Gam Lup	2.8000	26000.	79	41284	No
82	GOM_TRA_1PNPDE20100122_060621_000000432086_00148_41284_6040.N1	22-JAN-2010 06:06:21	Dark	42.500	109	Bet Lup	2.6770	26000.	85	41284	No
83	GOM_TRA_1PNPDE20100122_060750_000000412086_00148_41284_6041.N1	22-JAN-2010 06:07:50	Dark	41.000	78	Alp Lup	2.3040	28000.	82	41284	No
84	GOM_TRA_1PNPDE20100122_061003_000000542086_00149_41285_6042.N1	22-JAN-2010 06:10:03	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	41285	No
85	GOM_TRA_1PNPDE20100122_061124_000000412086_00149_41285_6043.N1	22-JAN-2010 06:11:24	Dark	41.000	77	Eps Cen	2.3030	28000.	82	41285	No
86	GOM_TRA_1PNPDE20100122_061435_000000432086_00149_41285_6044.N1	22-JAN-2010 06:14:35	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	41285	No
87	GOM_TRA_1PNPDE20100122_061742_000000402086_00149_41285_6045.N1	22-JAN-2010 06:17:42	Dark	39.500	124	The Car	2.7640	30000.	79	41285	No
88	GOM_TRA_1PNPDE20100122_061900_000000382086_00149_41285_6046.N1	22-JAN-2010 06:19:00	Dark	38.000	159	Ups Car	2.9200	7200.0	76	41285	No
89	GOM_TRA_1PNPDE20100122_062054_000000472086_00149_41285_6047.N1	22-JAN-2010 06:20:54	Dark	46.500	71	Iot Car	2.2460	7700.0	93	41285	No
90	GOM_TRA_1PNPDE20100122_062244_000000412086_00149_41285_6048.N1	22-JAN-2010 06:22:44	Dark	40.500	46	Del Vel	1.9540	10600.	81	41285	No
91	GOM_TRA_1PNPDE20100122_062522_000000442086_00149_41285_6049.N1	22-JAN-2010 06:25:22	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	41285	No
92	GOM_TRA_1PNPDE20100122_062729_000000412086_00149_41285_6050.N1	22-JAN-2010 06:27:29	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	41285	No
93	GOM_TRA_1PNPDE20100122_062901_000000462086_00149_41285_6051.N1	22-JAN-2010 06:29:01	Straylight	45.500	117	Pi Pup	2.7060	3800.0	91	41285	No
94	GOM_TRA_1PNPDE20100122_063130_000000432086_00149_41285_6052.N1	22-JAN-2010 06:31:30	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	41285	No

95	GOM_TRA_1PNPDE20100122_063253_000000402086_00149_41285_6053.N1	22-JAN-2010 06:32:53	Straylight	39.500	179	24Omi2CMA	3.0320	24000.	79	41285	No
96	GOM_TRA_1PNPDE20100122_063504_000000472086_00149_41285_6054.N1	22-JAN-2010 06:35:04	Straylight	46.500	1	9Alp CMA	-1.4400	11000.	93	41285	No
97	GOM_TRA_1PNPDE20100122_064120_000000492086_00149_41285_6055.N1	22-JAN-2010 06:41:20	Twilight	48.500	8	10Alp CMi	0.40000	6500.0	97	41285	No
98	GOM_TRA_1PNPDE20100122_064427_000000372086_00149_41285_6056.N1	22-JAN-2010 06:44:27	Bright	37.000	44	24Gam Gem	1.9280	11000.	74	41285	No
99	GOM_TRA_1PNPDE20100122_064613_000000362086_00149_41285_6057.N1	22-JAN-2010 06:46:13	Bright	35.500	151	13Mu Gem	2.8900	3000.0	71	41285	No
100	GOM_TRA_1PNPDE20100122_064828_000000462086_00149_41285_6058.N1	22-JAN-2010 06:48:28	Bright	45.500	17	78Bet Gem	1.1610	4500.0	91	41285	No
101	GOM_TRA_1PNPDE20100122_065026_000000362086_00149_41285_6059.N1	22-JAN-2010 06:50:26	Bright	36.000	107	37The Aur	2.6490	11000.	72	41285	No
102	GOM_TRA_1PNPDE20100122_065235_000000362086_00149_41285_6060.N1	22-JAN-2010 06:52:35	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	41285	No
103	GOM_TRA_1PNPDE20100122_070507_000000362086_00149_41285_6061.N1	22-JAN-2010 07:05:07	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	41285	No
104	GOM_TRA_1PNPDE20100122_070846_000000222086_00149_41285_6062.N1	22-JAN-2010 07:08:46	Twilight	22.000	60	7Bet UMi	2.0810	3950.0	44	41285	No
105	GOM_TRA_1PNPDE20100122_194734_000000462086_00157_41293_6106.N1	22-JAN-2010 19:47:34	Dark	45.500	46	Del Vel	1.9540	10600.	91	41293	No
106	GOM_TRA_1PNPDE20100122_195011_000000432086_00157_41293_6107.N1	22-JAN-2010 19:50:11	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	41293	No
107	GOM_TRA_1PNPDE20100122_195618_000000432086_00157_41293_6108.N1	22-JAN-2010 19:56:18	Straylight	43.000	23	21Eps CMA	1.5020	26000.	86	41293	No
108	GOM_TRA_1PNPDE20100122_195742_000000362086_00157_41293_6109.N1	22-JAN-2010 19:57:42	Straylight	35.500	179	24Omi2CMA	3.0320	24000.	71	41293	No
109	GOM_TRA_1PNPDE20100122_195952_000000372086_00157_41293_6110.N1	22-JAN-2010 19:59:52	Straylight	36.500	1	9Alp CMA	-1.4400	11000.	73	41293	No
110	GOM_TRA_1PNPDE20100122_200606_000000502086_00157_41293_6111.N1	22-JAN-2010 20:06:06	Twilight	50.000	8	10Alp CMi	0.40000	6500.0	100	41293	No
111	GOM_TRA_1PNPDE20100122_200915_000000482086_00157_41293_6112.N1	22-JAN-2010 20:09:15	Bright	47.500	44	24Gam Gem	1.9280	11000.	95	41293	No
112	GOM_TRA_1PNPDE20100122_201101_000000402086_00157_41293_6113.N1	22-JAN-2010 20:11:01	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	41293	No
113	GOM_TRA_1PNPDE20100122_201312_000000452086_00157_41293_6114.N1	22-JAN-2010 20:13:12	Bright	44.500	17	78Bet Gem	1.1610	4500.0	89	41293	No
114	GOM_TRA_1PNPDE20100122_201722_000000372086_00157_41293_6115.N1	22-JAN-2010 20:17:22	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	41293	No
115	GOM_TRA_1PNPDE20100122_202954_000000382086_00157_41293_6116.N1	22-JAN-2010 20:29:54	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	41293	No
116	GOM_TRA_1PNPDE20100122_203331_000000412086_00157_41293_6117.N1	22-JAN-2010 20:33:31	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	41293	No
117	GOM_TRA_1PNPDE20100122_203802_000000372086_00157_41293_6118.N1	22-JAN-2010 20:38:02	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	41293	No
118	GOM_TRA_1PNPDE20100122_204053_000000392086_00157_41293_6119.N1	22-JAN-2010 20:40:53	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	41293	No
119	GOM_TRA_1PNPDE20100122_204717_000000572086_00157_41293_6120.N1	22-JAN-2010 20:47:17	Bright	57.000	133	40Zet Her	2.8070	6000.0	114	41293	No
120	GOM_TRA_1PNPDE20100122_205034_000000402086_00157_41293_6121.N1	22-JAN-2010 20:50:34	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	41293	No
121	GOM_TRA_1PNPDE20100122_205418_000000342086_00157_41293_6122.N1	22-JAN-2010 20:54:18	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	41293	No
122	GOM_TRA_1PNPDE20100122_205952_000000462086_00157_41293_6123.N1	22-JAN-2010 20:59:52	Bright	45.500	98	13Zet Oph	2.5710	30000.	91	41293	No
123	GOM_TRA_1PNPDE20100122_210422_000000552086_00157_41293_6124.N1	22-JAN-2010 21:04:22	Twilight	55.000	16	21Alp Sco	1.0200	3000.0	110	41293	No
124	GOM_TRA_1PNPDE20100122_210551_000000452086_00157_41293_6125.N1	22-JAN-2010 21:05:51	Dark	45.000	75	26Eps Sco	2.2910	4250.0	90	41293	No
125	GOM_TRA_1PNPDE20100122_211151_000000432086_00157_41293_6126.N1	22-JAN-2010 21:11:51	Dark	42.500	109	Bet Lup	2.6770	26000.	85	41293	No
126	GOM_TRA_1PNPDE20100122_211320_000000432086_00157_41293_6127.N1	22-JAN-2010 21:13:20	Dark	43.000	78	Alp Lup	2.3040	28000.	86	41293	No
127	GOM_TRA_1PNPDE20100122_211654_000000422086_00158_41294_6128.N1	22-JAN-2010 21:16:54	Dark	42.000	77	Eps Cen	2.3030	28000.	84	41294	No
128	GOM_TRA_1PNPDE20100122_212003_000000412086_00158_41294_6129.N1	22-JAN-2010 21:20:03	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	41294	No
129	GOM_TRA_1PNPDE20100122_212621_000000452086_00158_41294_6130.N1	22-JAN-2010 21:26:21	Dark	45.000	71	lot Car	2.2460	7700.0	90	41294	No
130	GOM_TRA_1PNPDE20100122_212810_000000442086_00158_41294_6131.N1	22-JAN-2010 21:28:10	Dark	43.500	46	Del Vel	1.9540	10600.	87	41294	No
131	GOM_TRA_1PNPDE20100122_213048_000000432086_00158_41294_6132.N1	22-JAN-2010 21:30:48	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	41294	No
132	GOM_TRA_1PNPDE20100122_213818_000000402086_00158_41294_6133.N1	22-JAN-2010 21:38:18	Straylight	39.500	179	24Omi2CMA	3.0320	24000.	79	41294	No
133	GOM_TRA_1PNPDE20100122_214028_000000442086_00158_41294_6134.N1	22-JAN-2010 21:40:28	Straylight	43.500	1	9Alp CMA	-1.4400	11000.	87	41294	No
134	GOM_TRA_1PNPDE20100122_214642_000000492086_00158_41294_6135.N1	22-JAN-2010 21:46:42	Twilight	48.500	8	10Alp CMi	0.40000	6500.0	97	41294	No
135	GOM_TRA_1PNPDE20100122_214951_000000492086_00158_41294_6136.N1	22-JAN-2010 21:49:51	Bright	48.500	44	24Gam Gem	1.9280	11000.	97	41294	No
136	GOM_TRA_1PNPDE20100122_215137_000000412086_00158_41294_6137.N1	22-JAN-2010 21:51:37	Bright	41.000	151	13Mu Gem	2.8900	3000.0	82	41294	No
137	GOM_TRA_1PNPDE20100122_215549_000000362086_00158_41294_6138.N1	22-JAN-2010 21:55:49	Bright	36.000	107	37The Aur	2.6490	11000.	72	41294	No
138	GOM_TRA_1PNPDE20100122_215758_000000362086_00158_41294_6139.N1	22-JAN-2010 21:57:58	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	41294	No
139	GOM_TRA_1PNPDE20100122_221030_000000332086_00158_41294_6140.N1	22-JAN-2010 22:10:30	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	41294	No
140	GOM_TRA_1PNPDE20100122_221838_000000402086_00158_41294_6141.N1	22-JAN-2010 22:18:38	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	41294	No
141	GOM_TRA_1PNPDE20100122_222128_000000532086_00158_41294_6142.N1	22-JAN-2010 22:21:28	Bright	53.000	130	23Bet Dra	2.7990	5800.0	106	41294	No
142	GOM_TRA_1PNPDE20100122_222752_000000572086_00158_41294_6143.N1	22-JAN-2010 22:27:52	Bright	57.000	133	40Zet Her	2.8070	6000.0	114	41294	No
143	GOM_TRA_1PNPDE20100122_223110_000000412086_00158_41294_6144.N1	22-JAN-2010 22:31:10	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	41294	No
144	GOM_TRA_1PNPDE20100122_223248_000000342086_00158_41294_6145.N1	22-JAN-2010 22:32:48	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	41294	No
145	GOM_TRA_1PNPDE20100122_223454_000000522086_00158_41294_6146.N1	22-JAN-2010 22:34:54	Bright	52.000	126	60Bet Oph	2.7700	4250.0	104	41294	No
146	GOM_TRA_1PNPDE20100122_224029_000000442086_00158_41294_6147.N1	22-JAN-2010 22:40:29	Bright	44.000	98	13Zet Oph	2.5710	30000.	88	41294	No
147	GOM_TRA_1PNPDE20100122_224458_000000552086_00158_41294_6148.N1	22-JAN-2010 22:44:58	Twilight	55.000	16	21Alp Sco	1.0200	3000.0	110	41294	No
148	GOM_TRA_1PNPDE20100122_224627_000000432086_00158_41294_6149.N1	22-JAN-2010 22:46:27	Dark	43.000	75	26Eps Sco	2.2910	4250.0	86	41294	No
149	GOM_TRA_1PNPDE20100122_225029_000000422086_00158_41294_6150.N1	22-JAN-2010 22:50:29	Dark	42.000	131	Gam Lup	2.8000	26000.	84	41294	No
150	GOM_TRA_1PNPDE20100122_225227_000000432086_00158_41294_6151.N1	22-JAN-2010 22:52:27	Dark	42.500	109	Bet Lup	2.6770	26000.	85	41294	No
151	GOM_TRA_1PNPDE20100122_225357_000000462086_00158_41294_6152.N1	22-JAN-2010 22:53:57	Dark	45.500	78	Alp Lup	2.3040	28000.	91	41294	No
152	GOM_TRA_1PNPDE20100122_225607_000000542086_00159_41295_6153.N1	22-JAN-2010 22:56:07	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	41295	No
153	GOM_TRA_1PNPDE20100122_225731_000000502086_00159_41295_6154.N1	22-JAN-2010 22:57:31	Dark	49.500	77	Eps Cen	2.3030	28000.	99	41295	No

154	GOM_TRA_1PNPDE20100122_230039_000000402086_00159_41295_6151.N1	22-JAN-2010 23:00:39	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	41295	No
155	GOM_TRA_1PNPDE20100122_230657_000000412086_00159_41295_6152.N1	22-JAN-2010 23:06:57	Dark	40.500	71	lot Car	2.2460	7700.0	81	41295	No
156	GOM_TRA_1PNPDE20100122_230846_000000422086_00159_41295_6153.N1	22-JAN-2010 23:08:46	Dark	42.000	46	Del Vel	1.9540	10600.	84	41295	No
157	GOM_TRA_1PNPDE20100122_231124_000000422086_00159_41295_6154.N1	22-JAN-2010 23:11:24	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	41295	No
158	GOM_TRA_1PNPDE20100122_231330_000000432086_00159_41295_6155.N1	22-JAN-2010 23:13:30	Straylight	43.000	70	Zet Pup	2.2460	39000.	86	41295	No
159	GOM_TRA_1PNPDE20100122_231502_000000432086_00159_41295_6156.N1	22-JAN-2010 23:15:02	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	41295	No
160	GOM_TRA_1PNPDE20100122_231731_000000412086_00159_41295_6157.N1	22-JAN-2010 23:17:31	Straylight	41.000	23	21Eps CMa	1.5020	26000.	82	41295	No
161	GOM_TRA_1PNPDE20100122_231854_000000402086_00159_41295_6158.N1	22-JAN-2010 23:18:54	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	41295	No
162	GOM_TRA_1PNPDE20100122_232104_000000452086_00159_41295_6159.N1	22-JAN-2010 23:21:04	Straylight	45.000	1	9Alp CMa	-1.4400	11000.	90	41295	No
163	GOM_TRA_1PNPDE20100122_232718_000000562086_00159_41295_6160.N1	22-JAN-2010 23:27:18	Twilight_stray	56.000	8	10Alp CMi	0.40000	6500.0	112	41295	No
164	GOM_TRA_1PNPDE20100122_233027_000000522086_00159_41295_6161.N1	22-JAN-2010 23:30:27	Bright	51.500	44	24Gam Gem	1.9280	11000.	103	41295	No
165	GOM_TRA_1PNPDE20100122_233213_000000422086_00159_41295_6162.N1	22-JAN-2010 23:32:13	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	41295	No
166	GOM_TRA_1PNPDE20100122_233424_000000442086_00159_41295_6163.N1	22-JAN-2010 23:34:24	Bright	44.000	17	78Bet Gem	1.1610	4500.0	88	41295	No
167	GOM_TRA_1PNPDE20100122_233625_000000372086_00159_41295_6164.N1	22-JAN-2010 23:36:25	Bright	36.500	107	37The Aur	2.6490	11000.	73	41295	No
168	GOM_TRA_1PNPDE20100122_233834_000000382086_00159_41295_6165.N1	22-JAN-2010 23:38:34	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	41295	No
169	GOM_TRA_1PNPDE20100122_235106_000000342086_00159_41295_6166.N1	22-JAN-2010 23:51:06	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	41295	No
170	GOM_TRA_1PNPDE20100122_235443_000000372086_00159_41295_6167.N1	22-JAN-2010 23:54:43	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	41295	No
171	GOM_TRA_1PNPDE20100122_235914_000000412086_00159_41295_6168.N1	22-JAN-2010 23:59:14	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	41295	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"

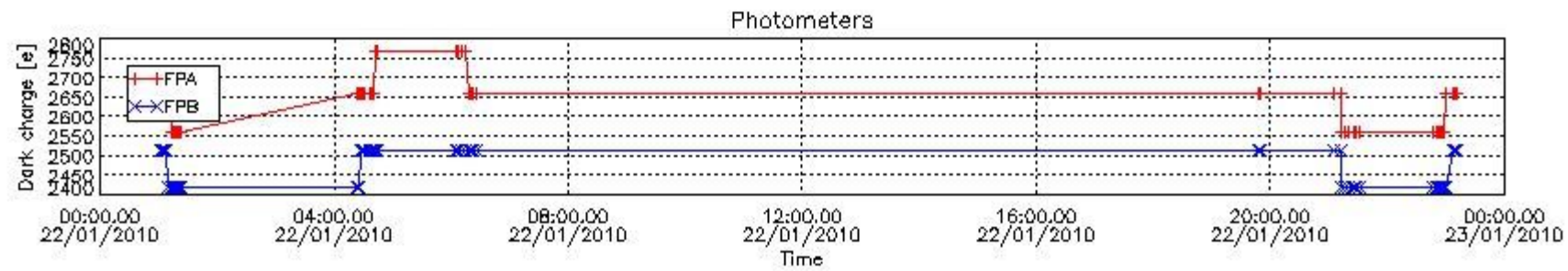
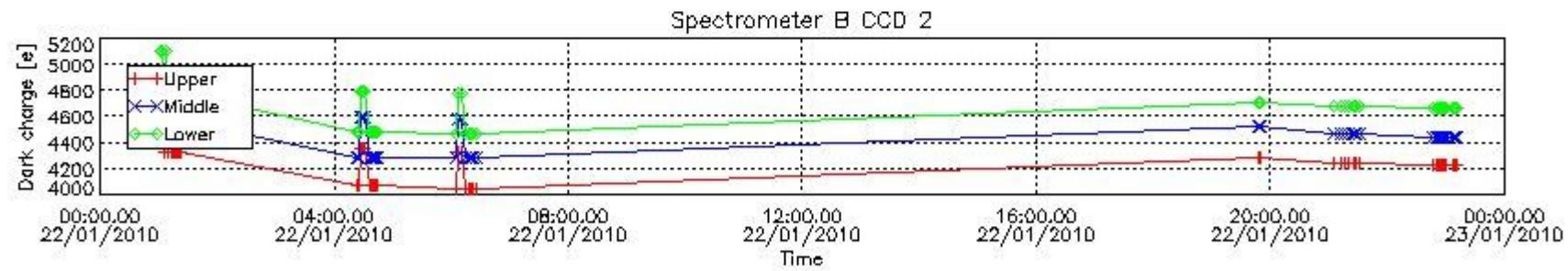
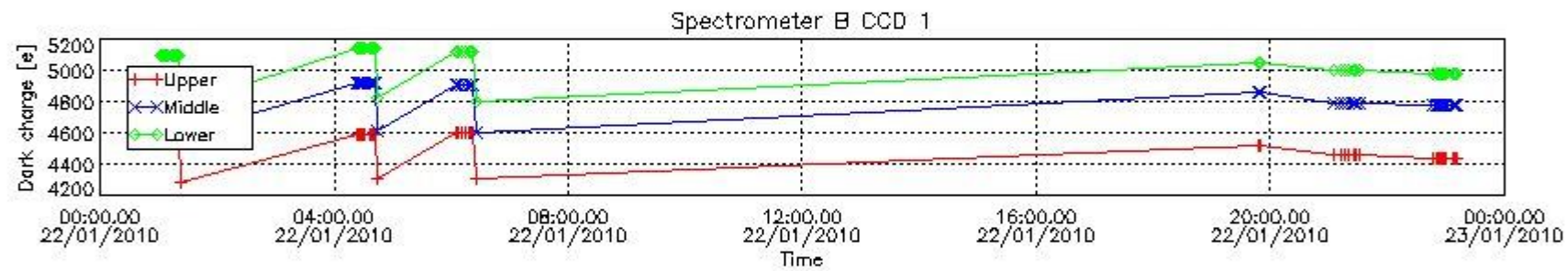
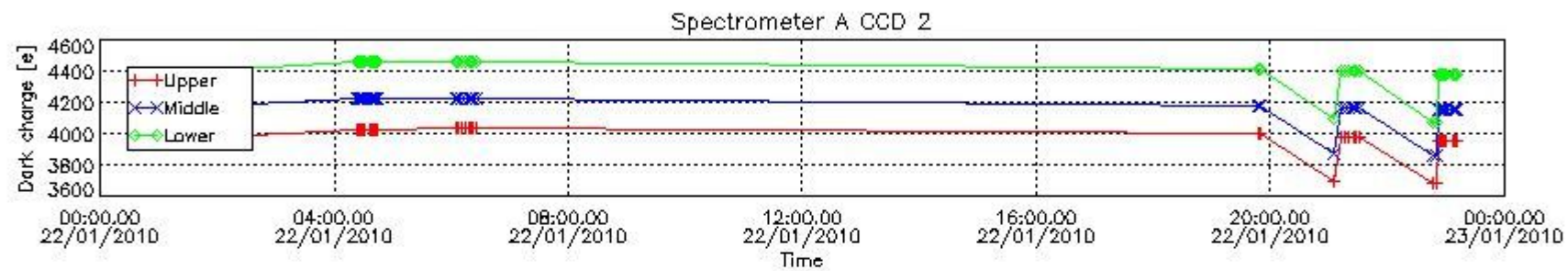
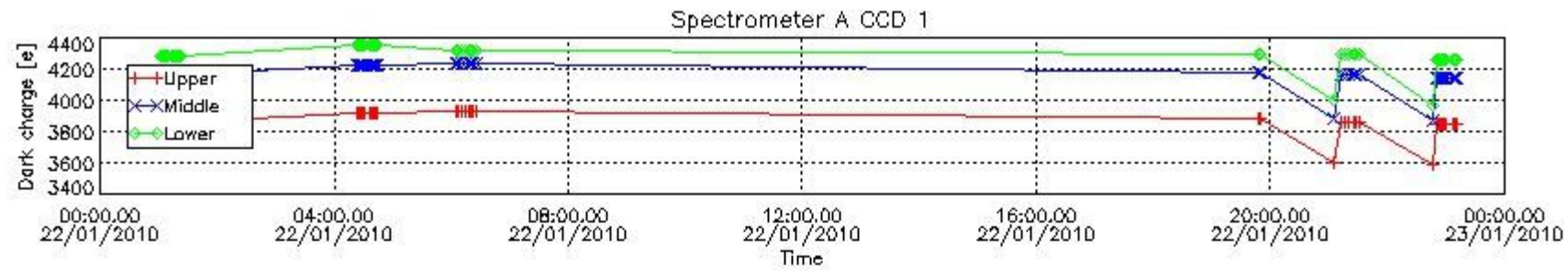
(a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

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_1PNPDE20100122_194734_000000462086_00157_41293_6106.N1	DC map used
GOM_TRA_1PNPDE20100122_195011_000000432086_00157_41293_6107.N1	DC map used
GOM_TRA_1PNPDE20100122_195618_000000432086_00157_41293_6108.N1	DC map used
GOM_TRA_1PNPDE20100122_195742_000000362086_00157_41293_6109.N1	DC map used
GOM_TRA_1PNPDE20100122_195952_000000372086_00157_41293_6110.N1	DC map used
GOM_TRA_1PNPDE20100122_200606_000000502086_00157_41293_6111.N1	DC map used
GOM_TRA_1PNPDE20100122_200915_000000482086_00157_41293_6112.N1	DC map used
GOM_TRA_1PNPDE20100122_201101_000000402086_00157_41293_6113.N1	DC map used
GOM_TRA_1PNPDE20100122_201312_000000452086_00157_41293_6114.N1	DC map used
GOM_TRA_1PNPDE20100122_201722_000000372086_00157_41293_6115.N1	DC map used
GOM_TRA_1PNPDE20100122_202954_000000382086_00157_41293_6116.N1	DC map used
GOM_TRA_1PNPDE20100122_203331_000000412086_00157_41293_6117.N1	DC map used
GOM_TRA_1PNPDE20100122_203802_000000372086_00157_41293_6118.N1	DC map used
GOM_TRA_1PNPDE20100122_204053_000000392086_00157_41293_6119.N1	DC map used
GOM_TRA_1PNPDE20100122_204717_000000572086_00157_41293_6120.N1	DC map used
GOM_TRA_1PNPDE20100122_205034_000000402086_00157_41293_6121.N1	DC map used
GOM_TRA_1PNPDE20100122_205418_000000342086_00157_41293_6122.N1	DC map used

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



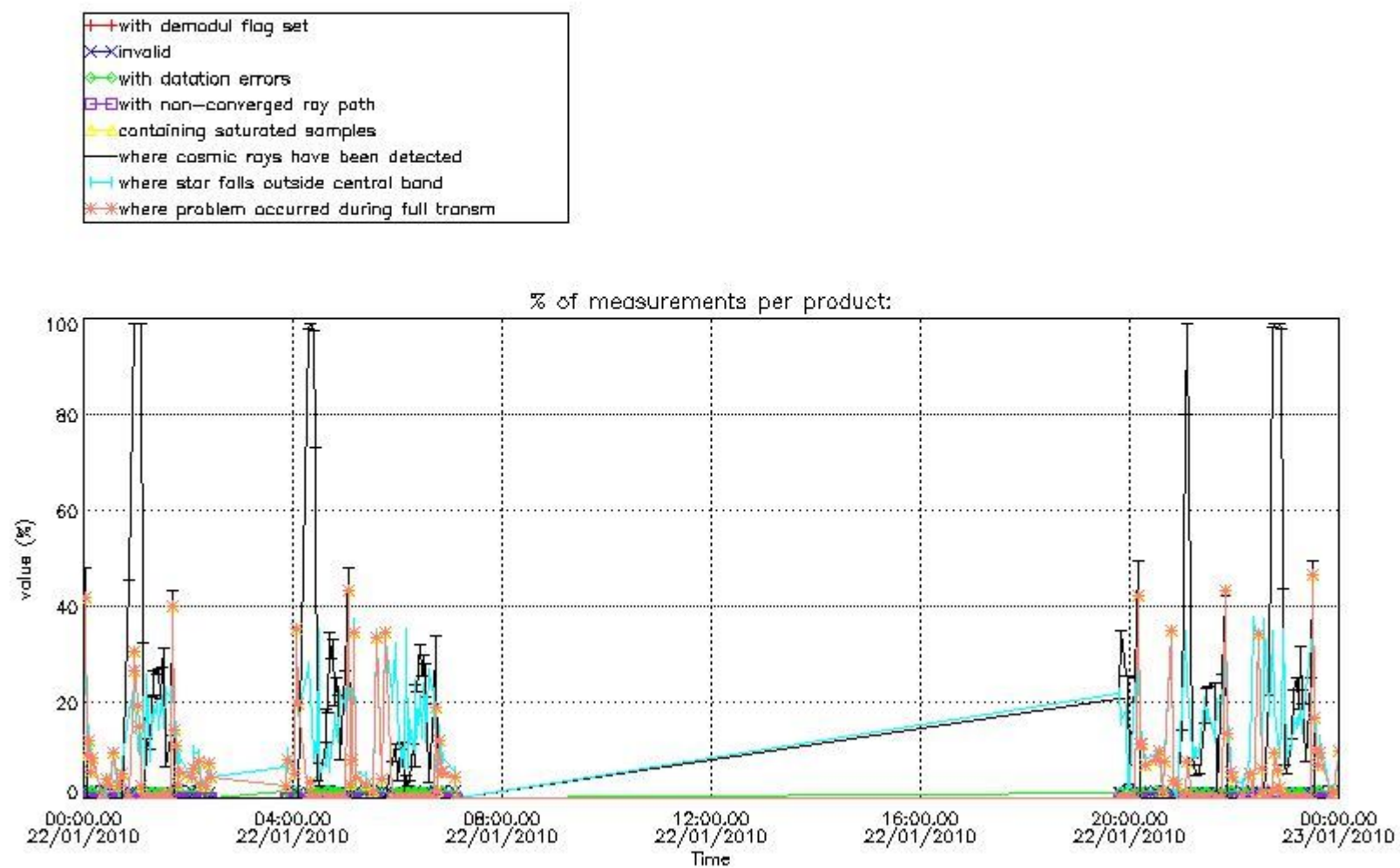
5. Demodulation flag and quality information monitoring

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

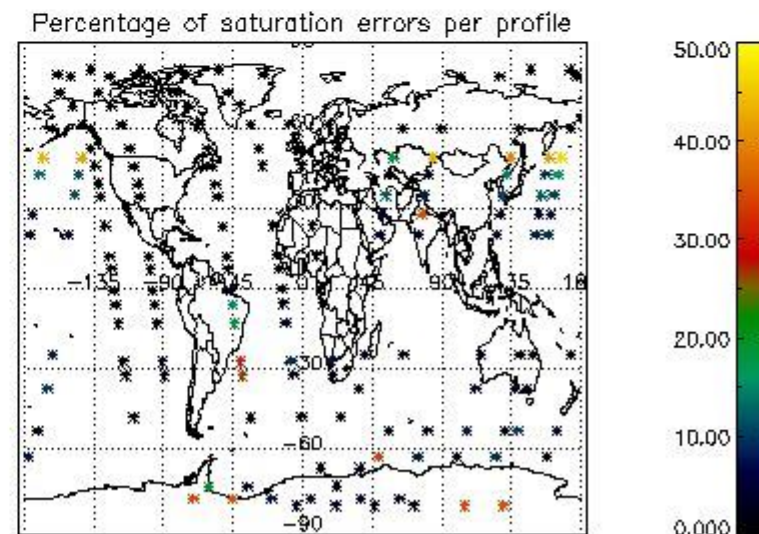
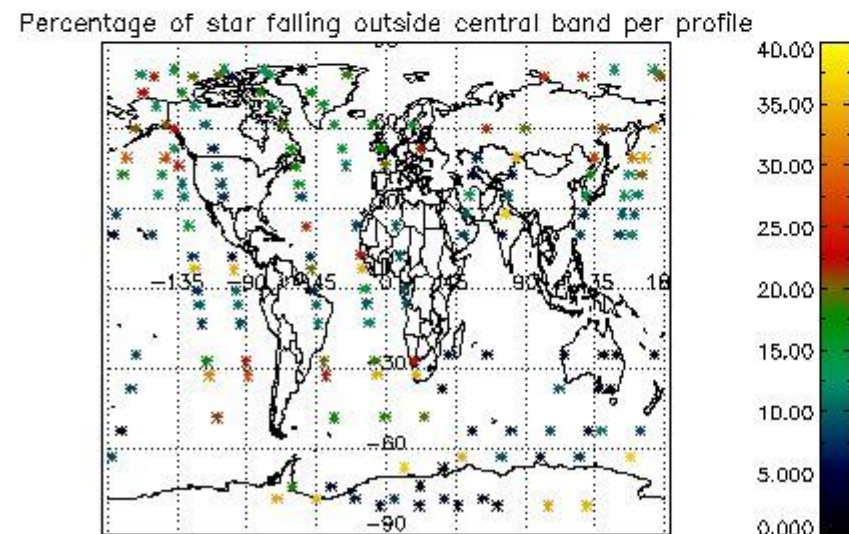
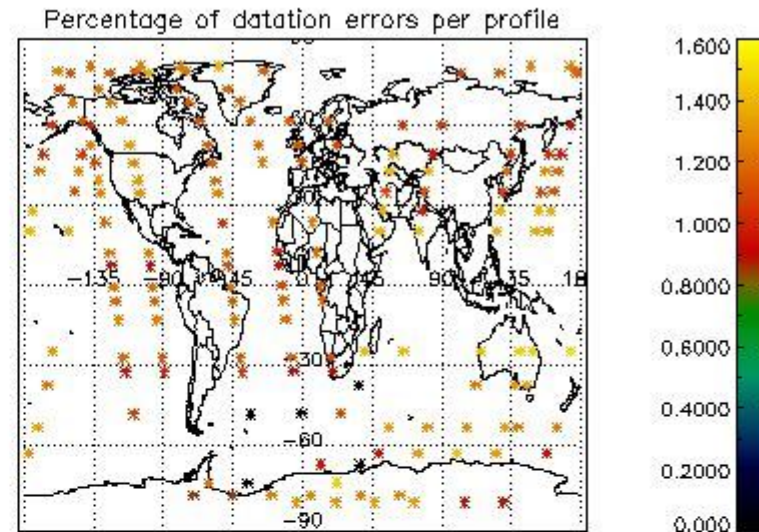
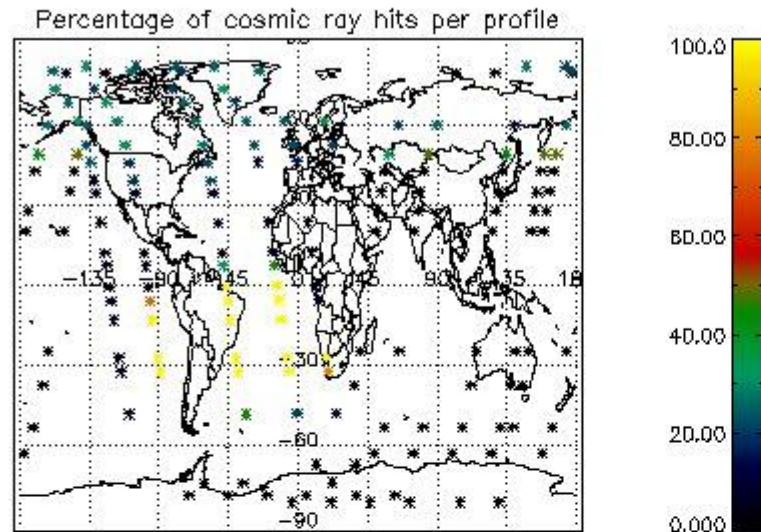
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.7059 %
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)



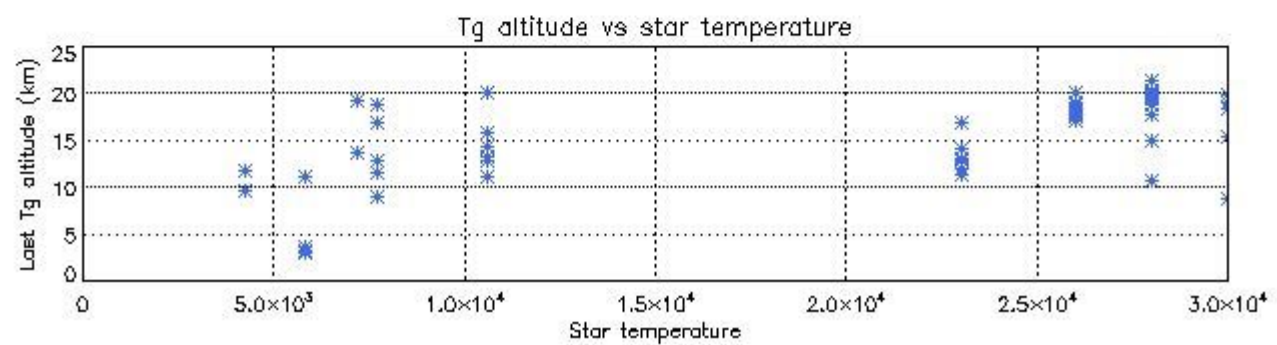
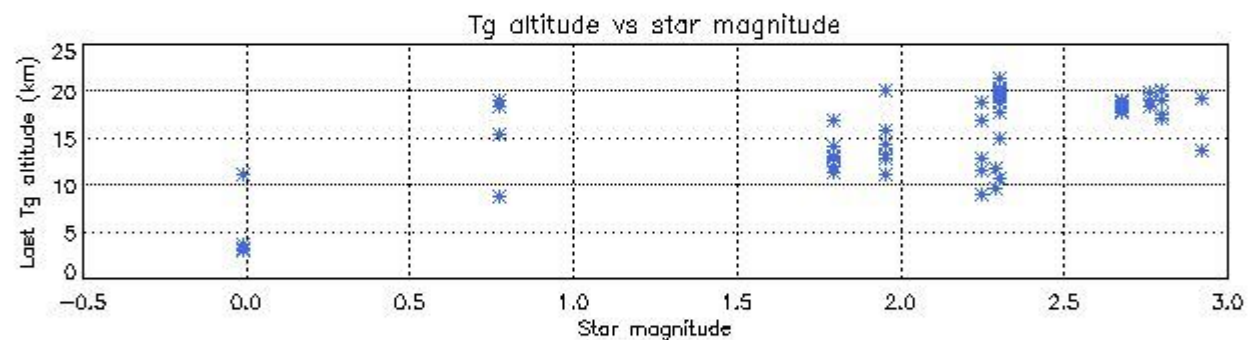
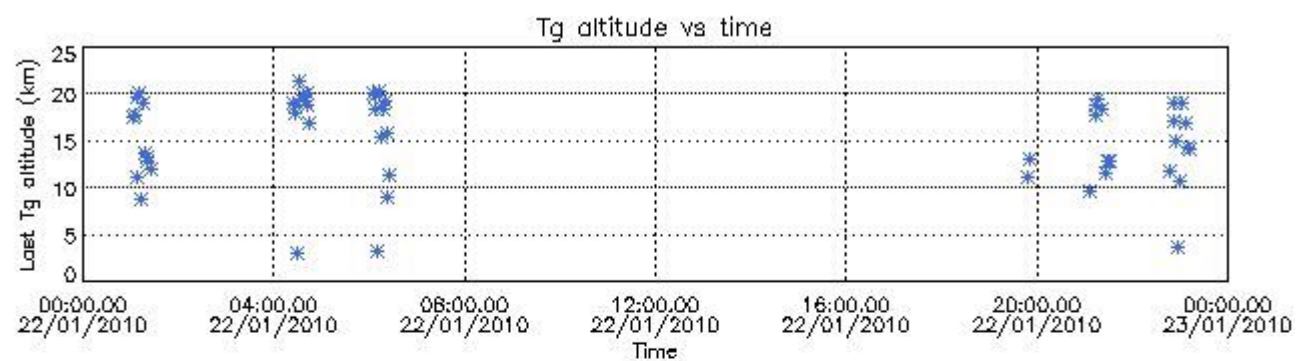
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.344	16.677	7.9709
St. deviation:	4.6197	6.4683	3.2784
Maximum:	21.323	27.606	12.137
Minimum:	2.9177	3.4987	3.7262
Number of data:	52.000	78.000	8.0000

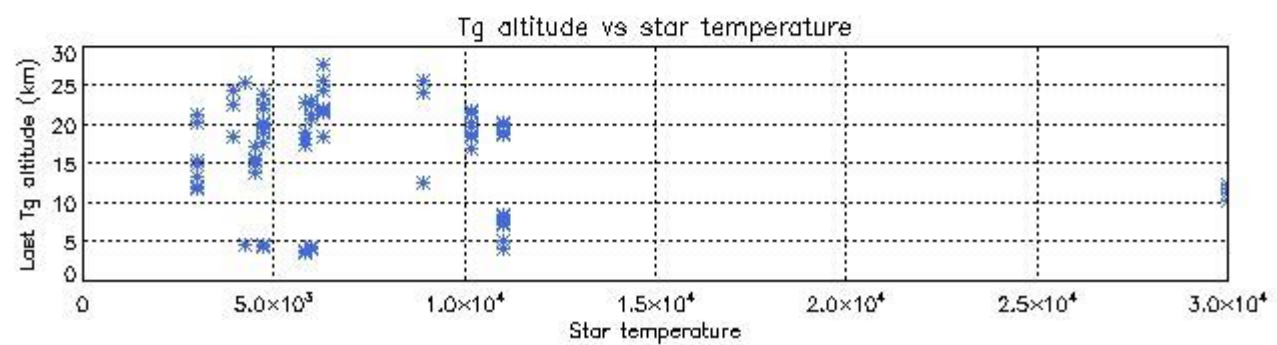
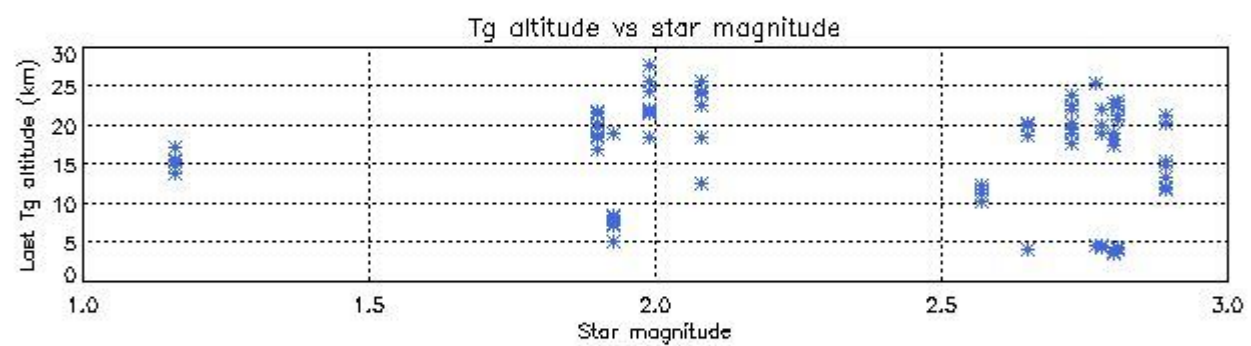
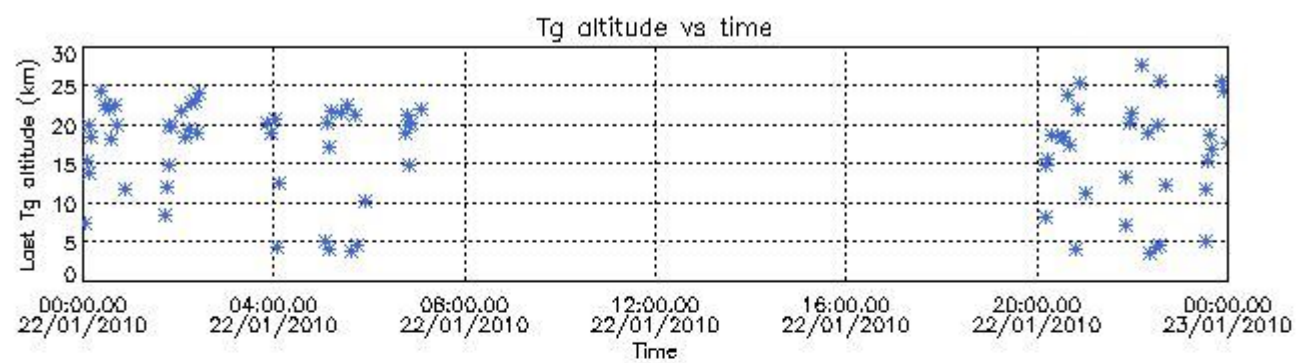
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



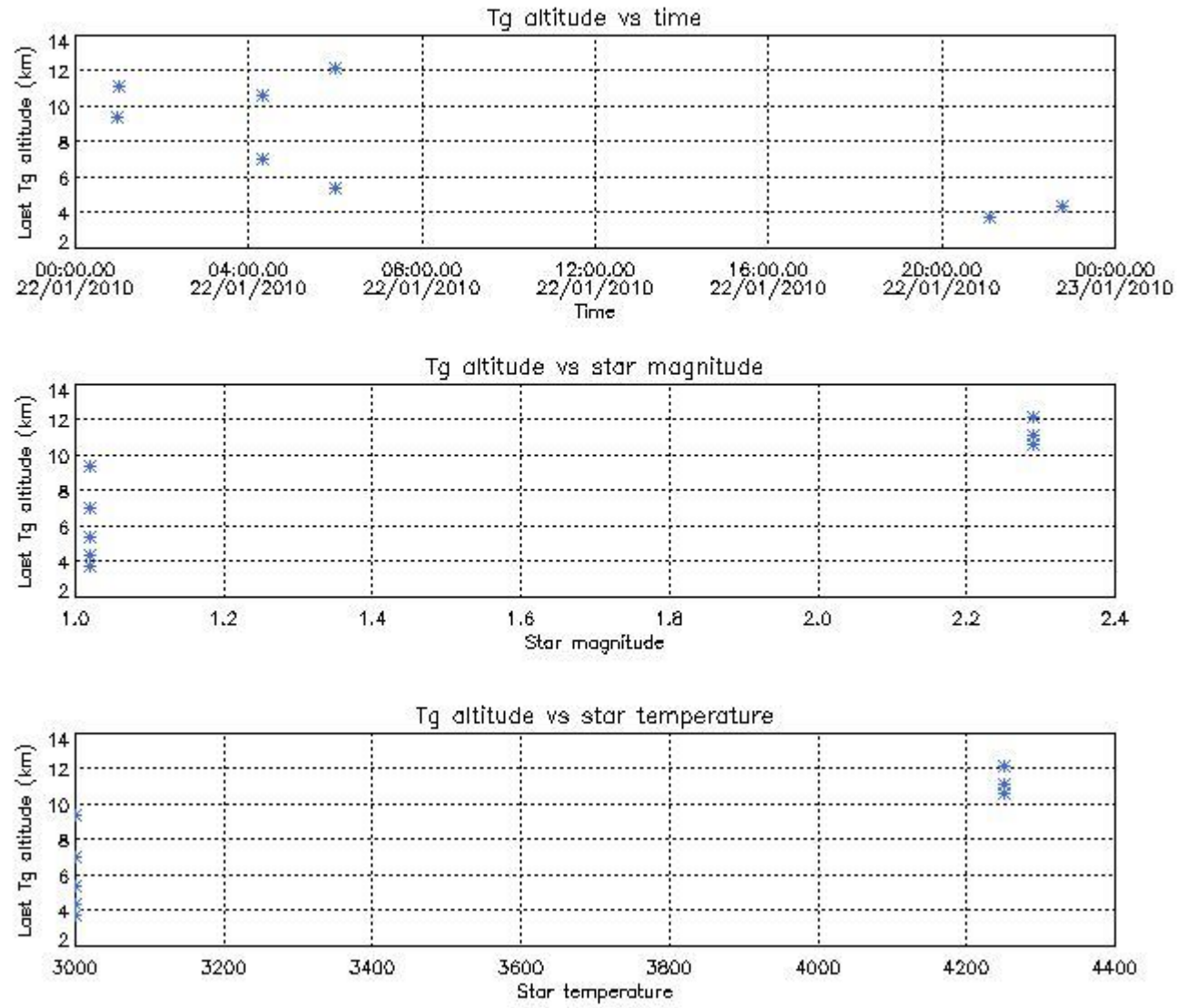
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

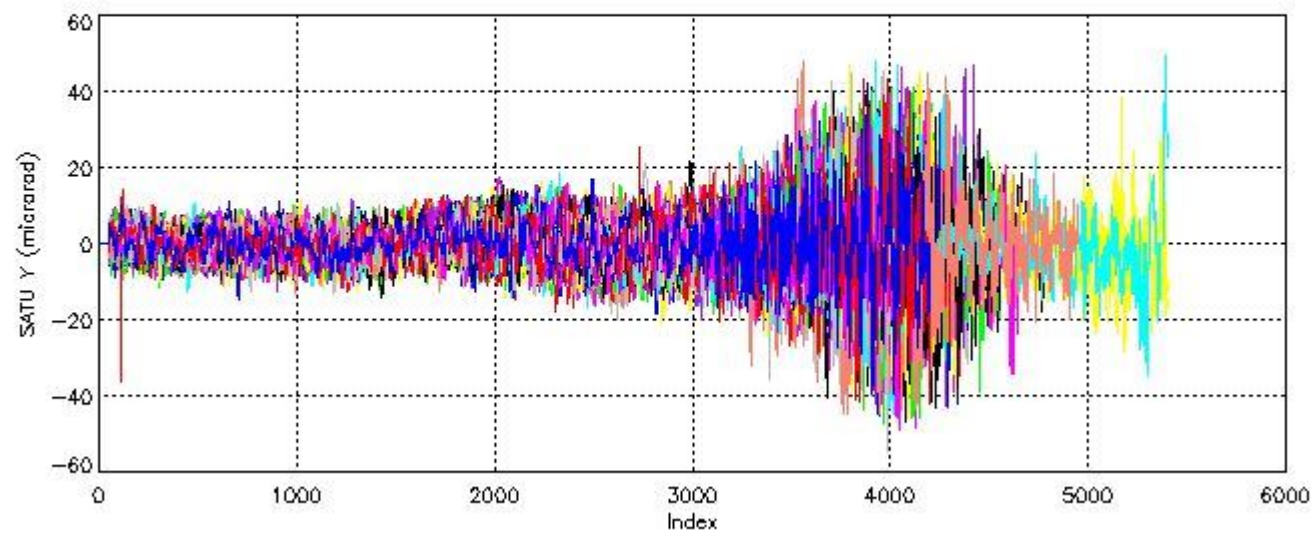
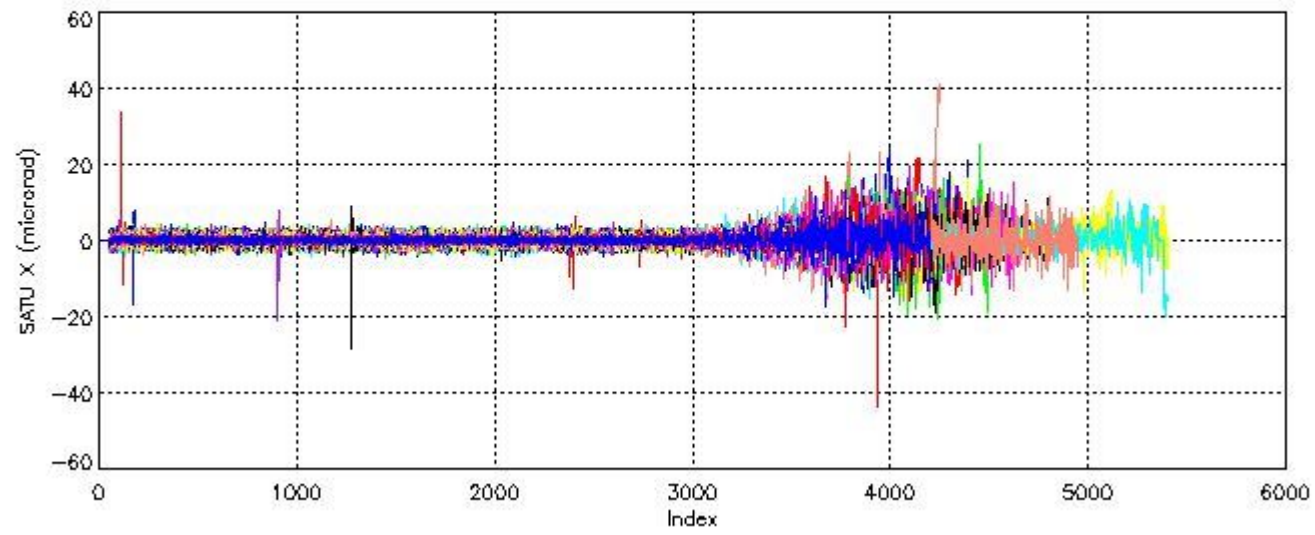


7. Star Acquisition and Tracking Unit (SATU)

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:	0.14285	0.066465	0.10182	-0.11659
St. deviation:	0.73596	2.9353	0.65832	3.1103
Maximum:	33.700	14.200	5.5000	15.300
Minimum:	-21.200	-36.400	-5.3000	-16.000

Number of data:	47950.	47950.	67850.	67850.
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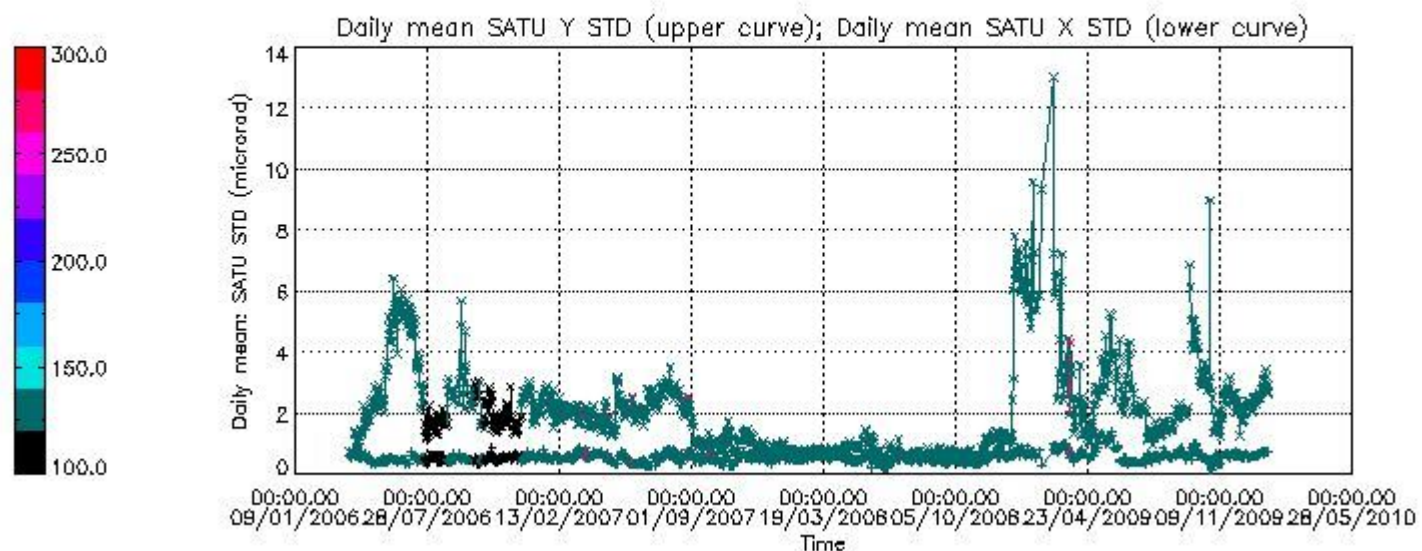
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

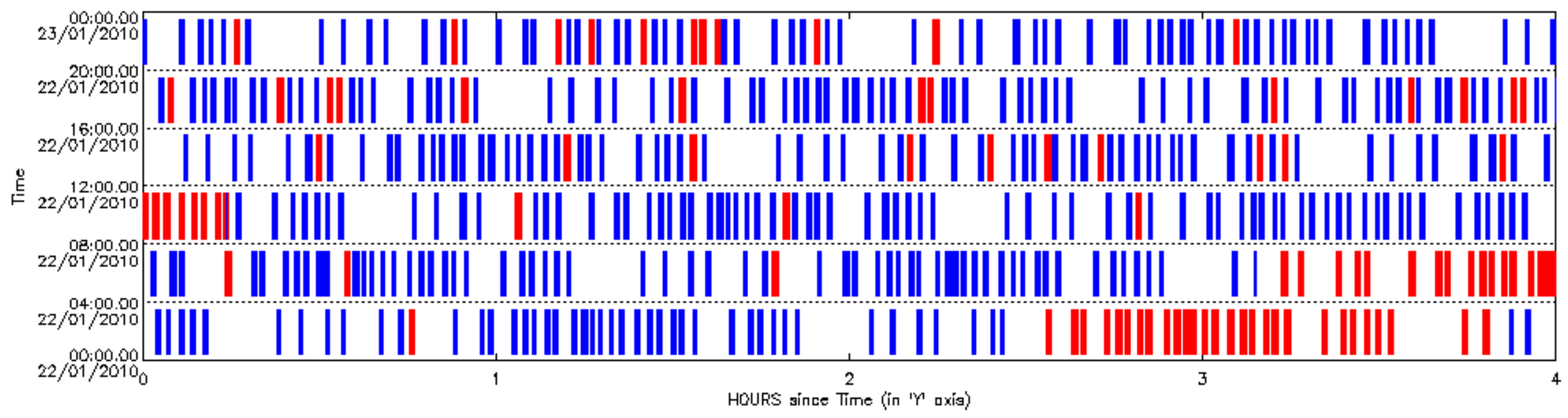
Lower curve: STD of SATU X axis

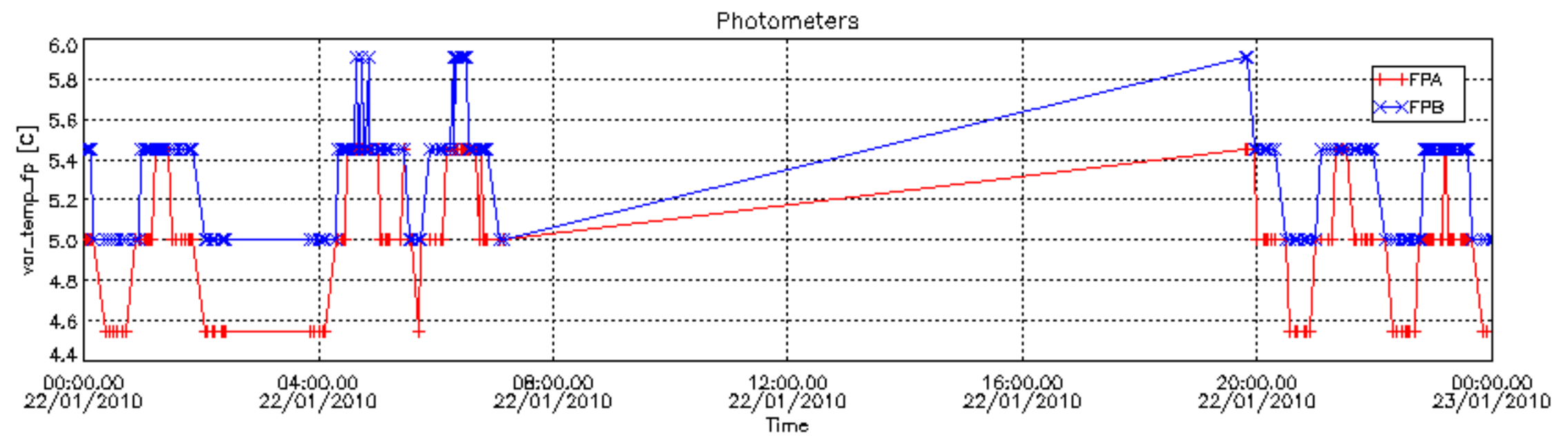
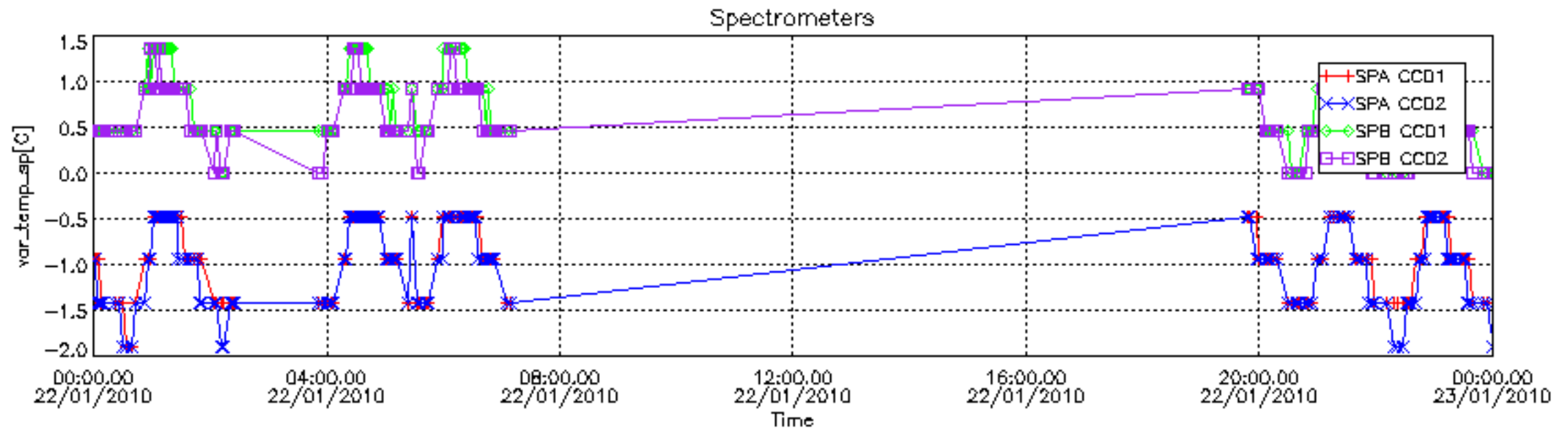


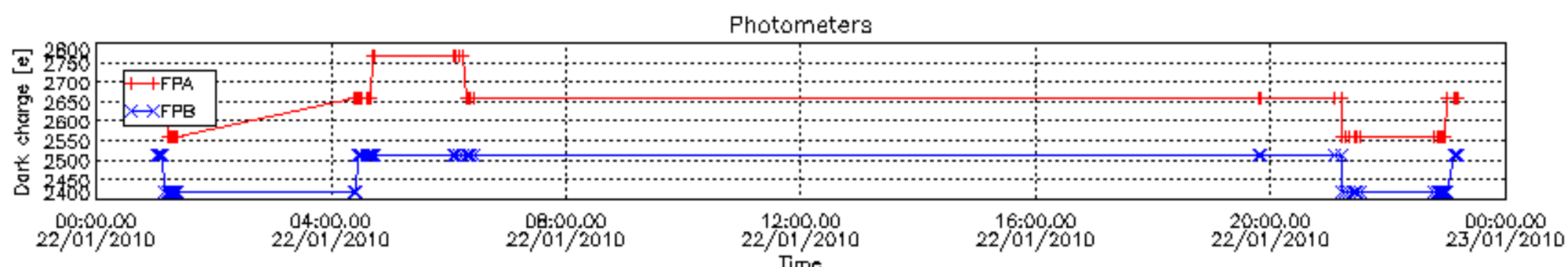
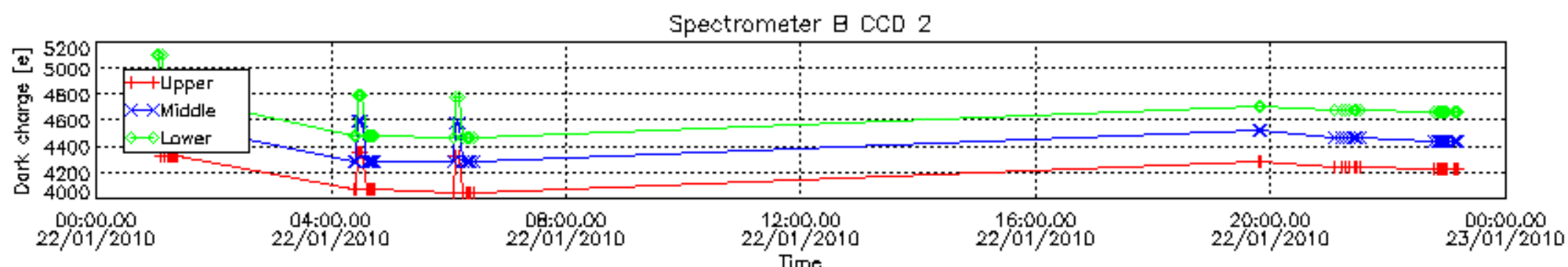
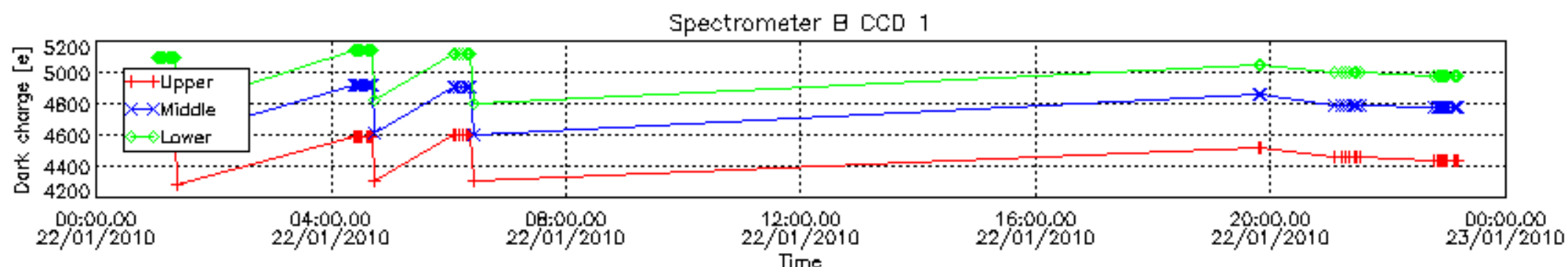
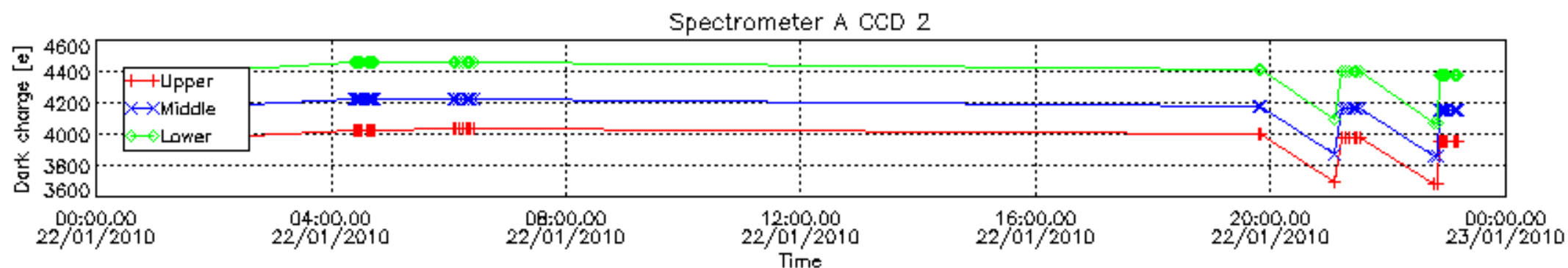
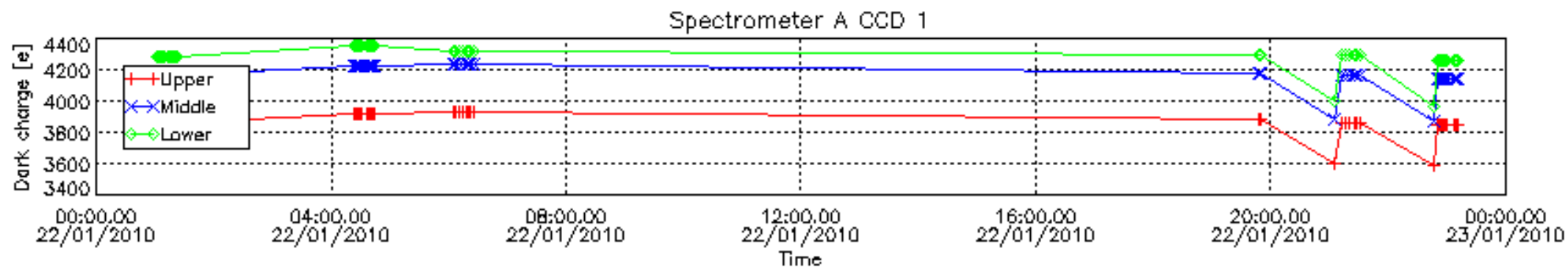
8. Auxiliary Data Files used for the production reported in section 2.4

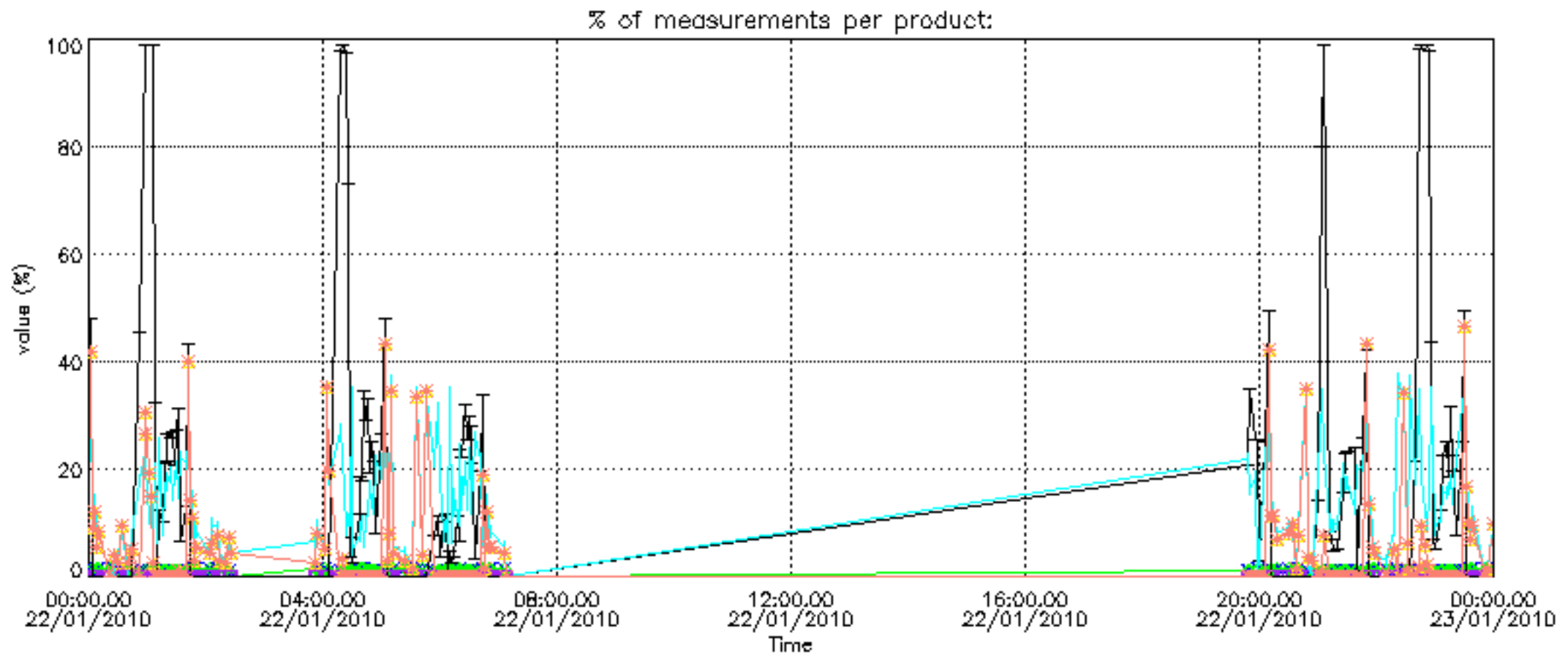
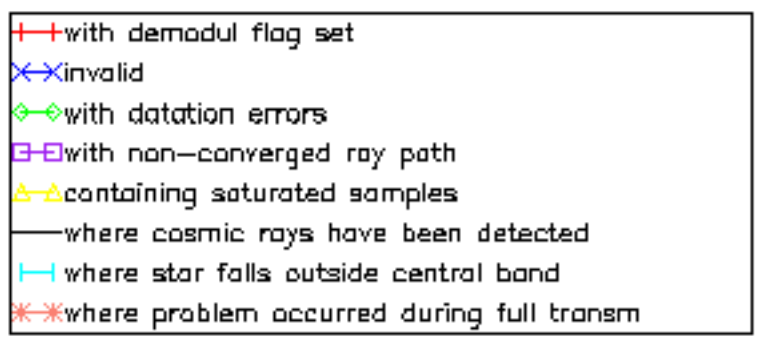
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-JAN-2010 00:02:03
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100120_153031_20100118_000000_20500101_000000	1	22-JAN-2010 00:02:03
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	22-JAN-2010 00:02:03
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-JAN-2010 00:02:03
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	22-JAN-2010 00:02:03
ECMWF_FILE	AUX_ECF_AXNECM20100121_062111_20100121_210000_20100122_090000	1	22-JAN-2010 00:02:03
ECMWF_FILE	AUX_ECF_AXNECM20100121_180913_20100122_030000_20100122_150000	44	22-JAN-2010 03:52:04
ECMWF_FILE	AUX_ECA_AXNECM20100122_060111_20100121_210000_20100122_090000	73	22-JAN-2010 05:28:10
ECMWF_FILE	AUX_ECA_AXNECM20100122_180110_20100122_090000_20100122_210000	105	22-JAN-2010 19:47:34
ECMWF_FILE	AUX_ECF_AXNECM20100122_062110_20100122_150000_20100123_030000	122	22-JAN-2010 20:59:52
ECMWF_FILE	AUX_ECF_AXNECM20100122_062111_20100122_210000_20100123_090000	147	22-JAN-2010 22:44:58
OPTIONAL_ECMWF_FILE	MISSING	1	22-JAN-2010 00:02:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100121_231110_000057382086_00144_41280_9615.N1	1	22-JAN-2010 00:02:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100122_005207_000057382086_00145_41281_9616.N1	13	22-JAN-2010 00:57:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100122_034727_000057382086_00147_41283_9617.N1	44	22-JAN-2010 03:52:04
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100121_232914_20100121_182349_20100131_213038	73	22-JAN-2010 05:28:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100122_194349_000038252086_00157_41293_9619.N1	105	22-JAN-2010 19:47:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100122_205253_000060572086_00157_41293_9620.N1	122	22-JAN-2010 20:59:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100122_223909_000057382086_00158_41294_9621.N1	147	22-JAN-2010 22:44:58

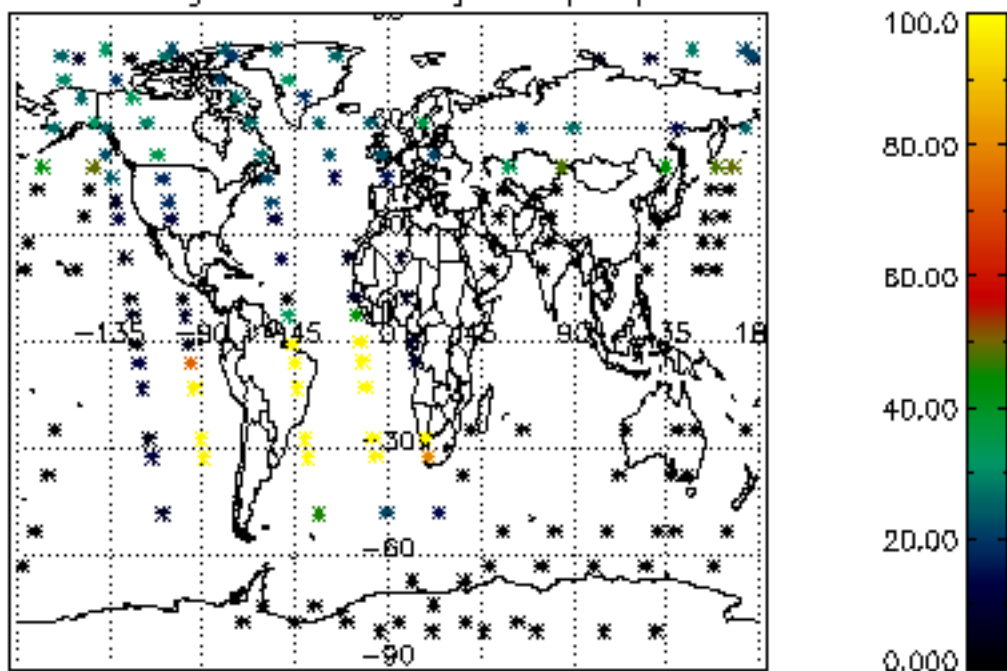




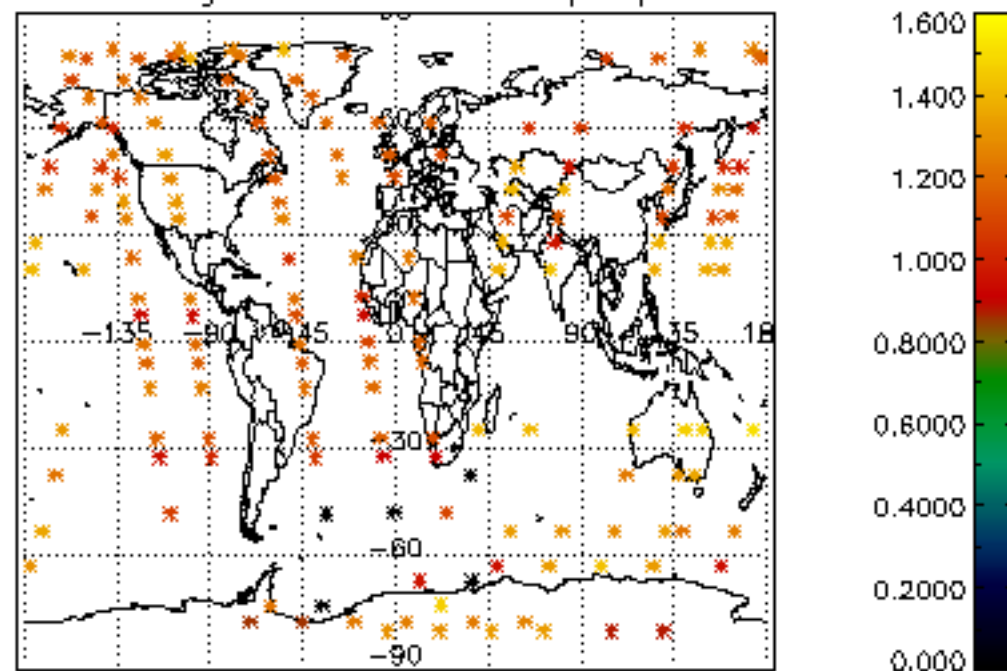




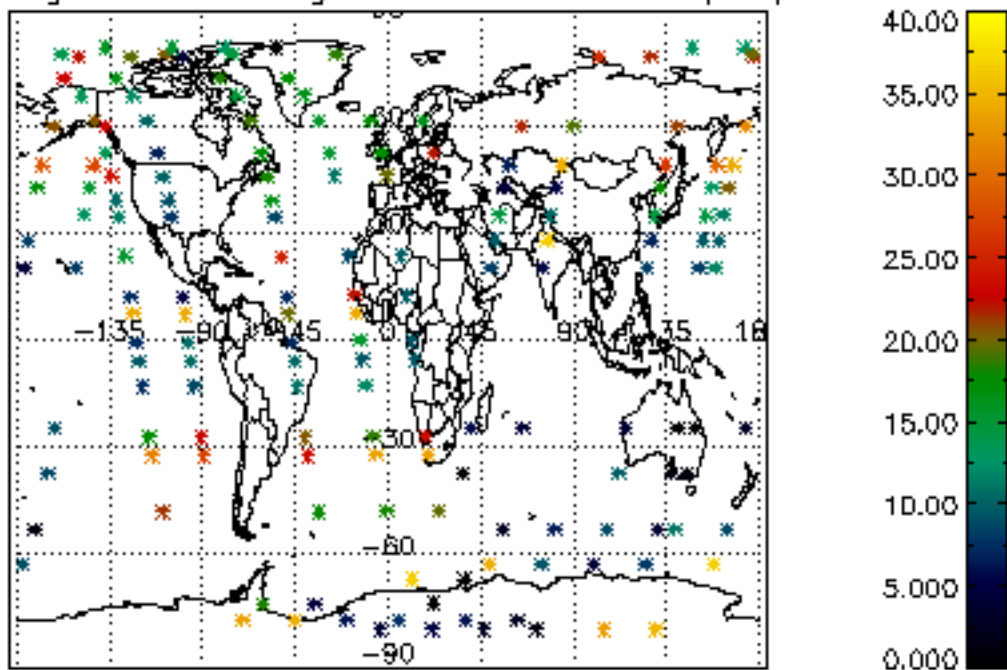
Percentage of cosmic ray hits per profile



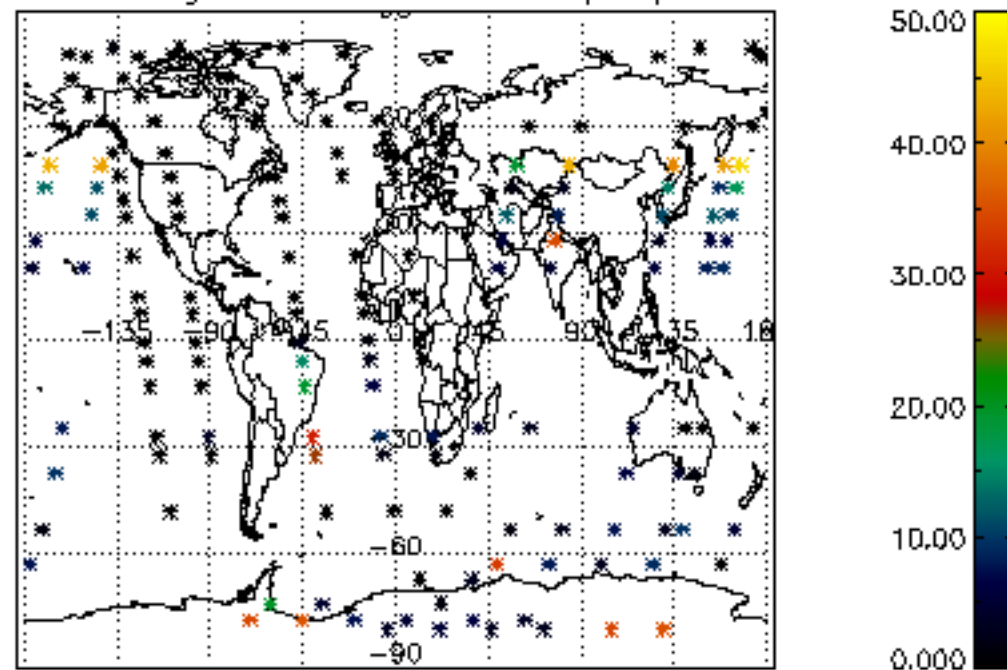
Percentage of datation errors per profile



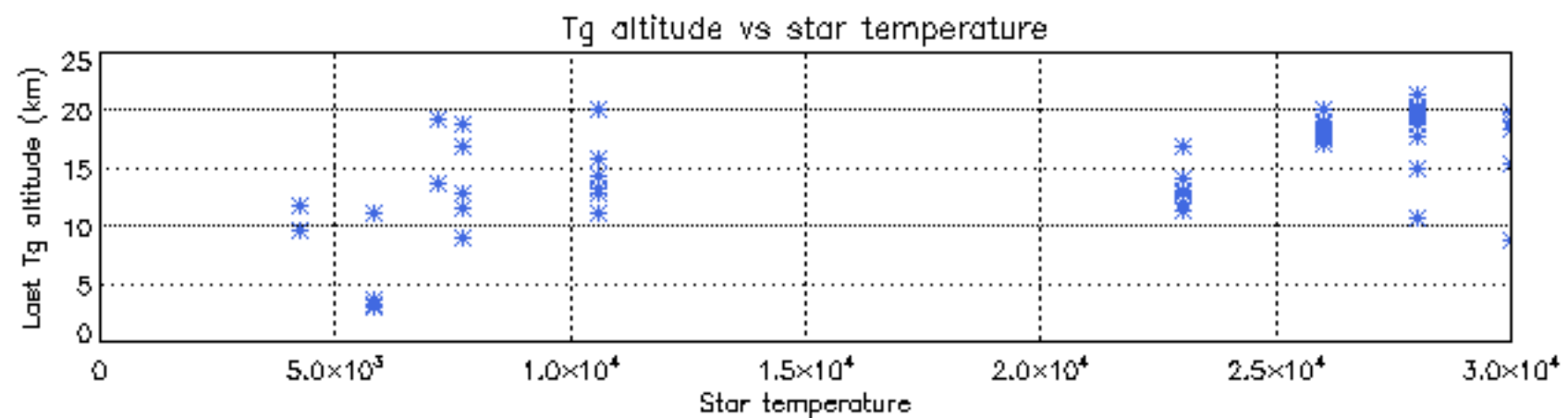
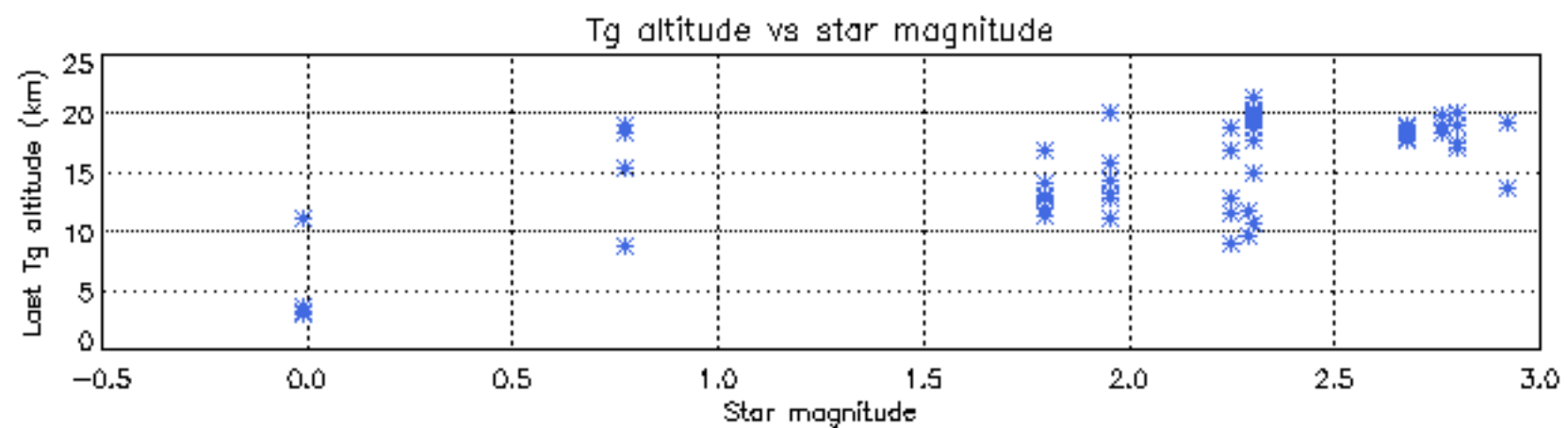
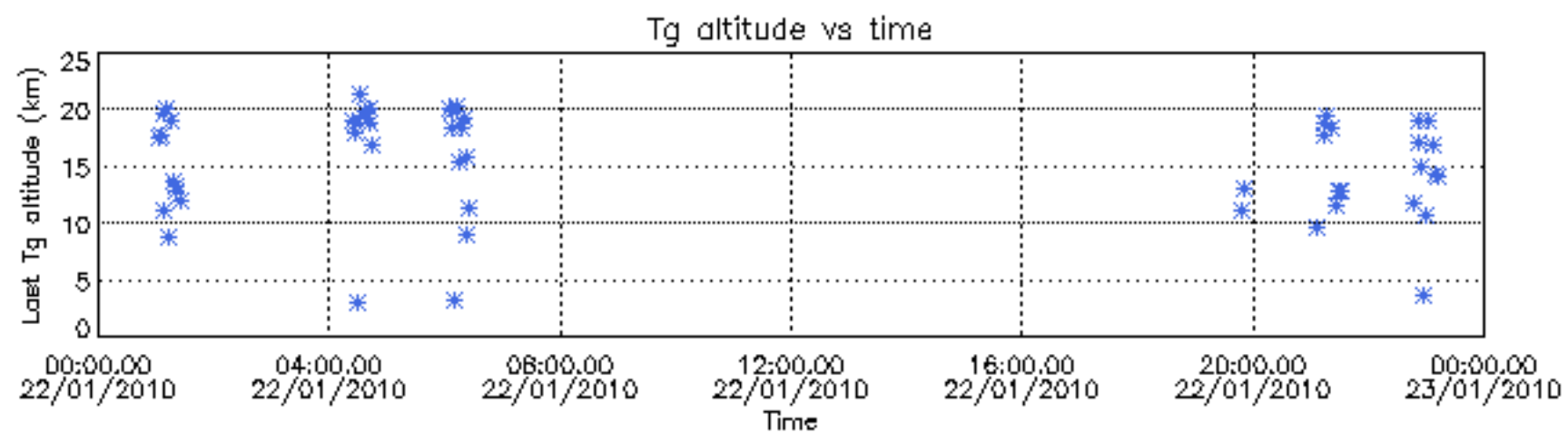
Percentage of star falling outside central band per profile



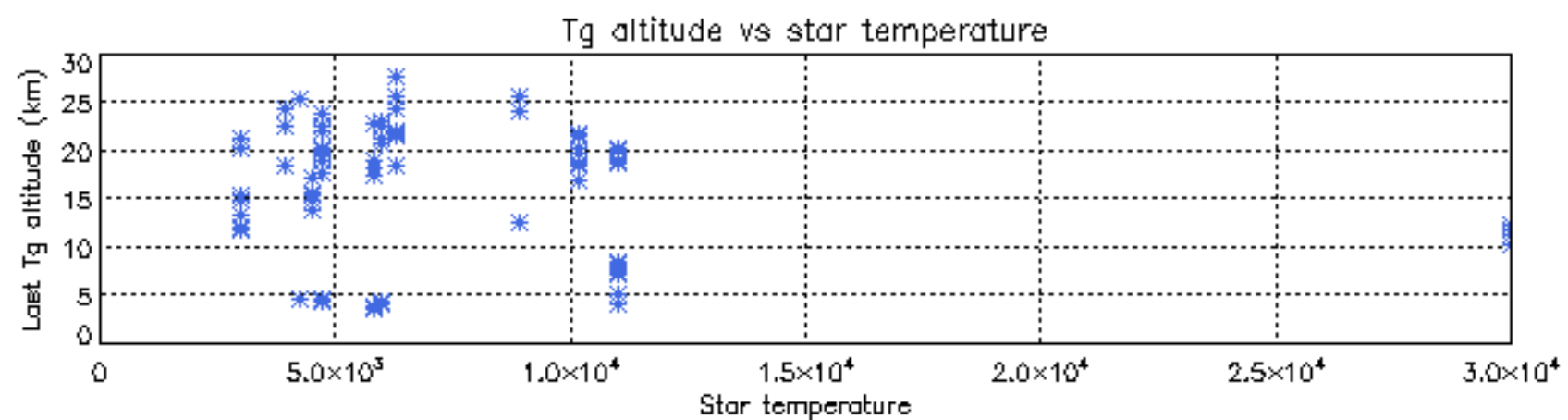
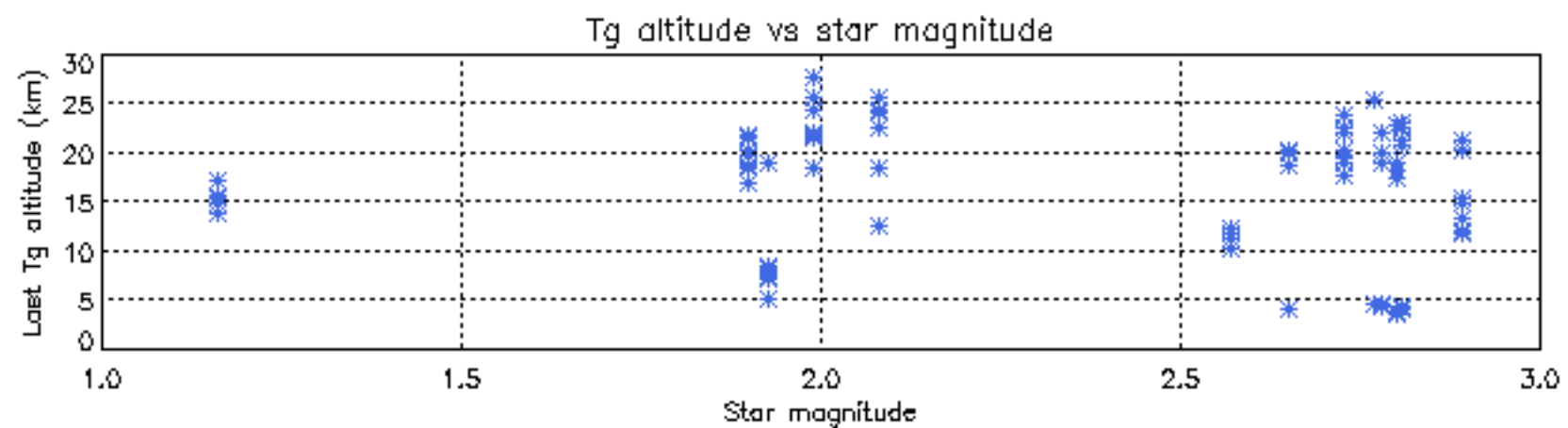
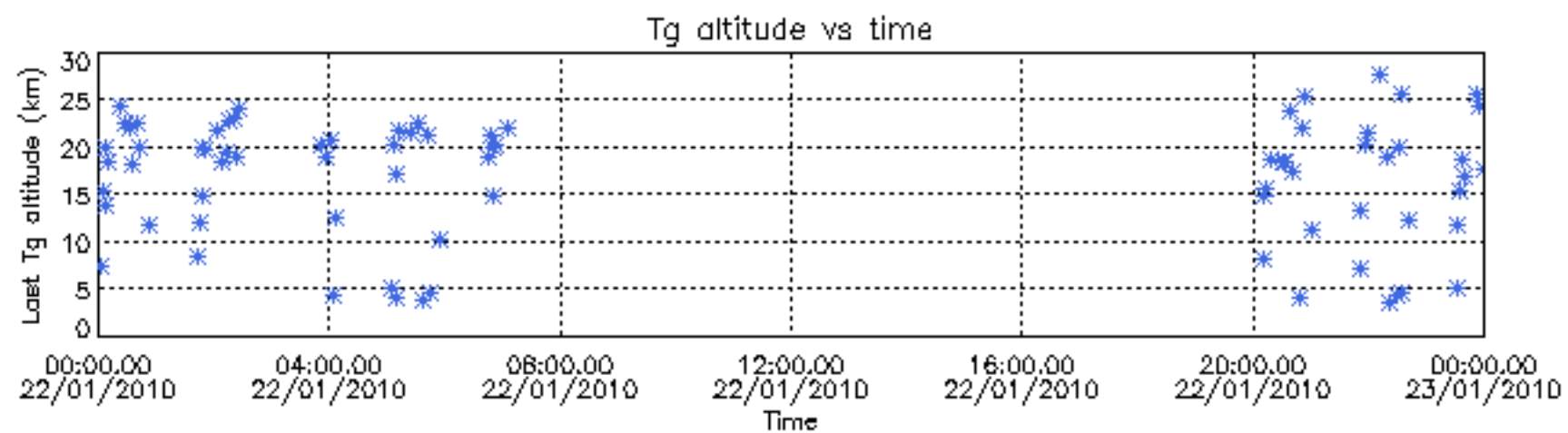
Percentage of saturation errors per profile



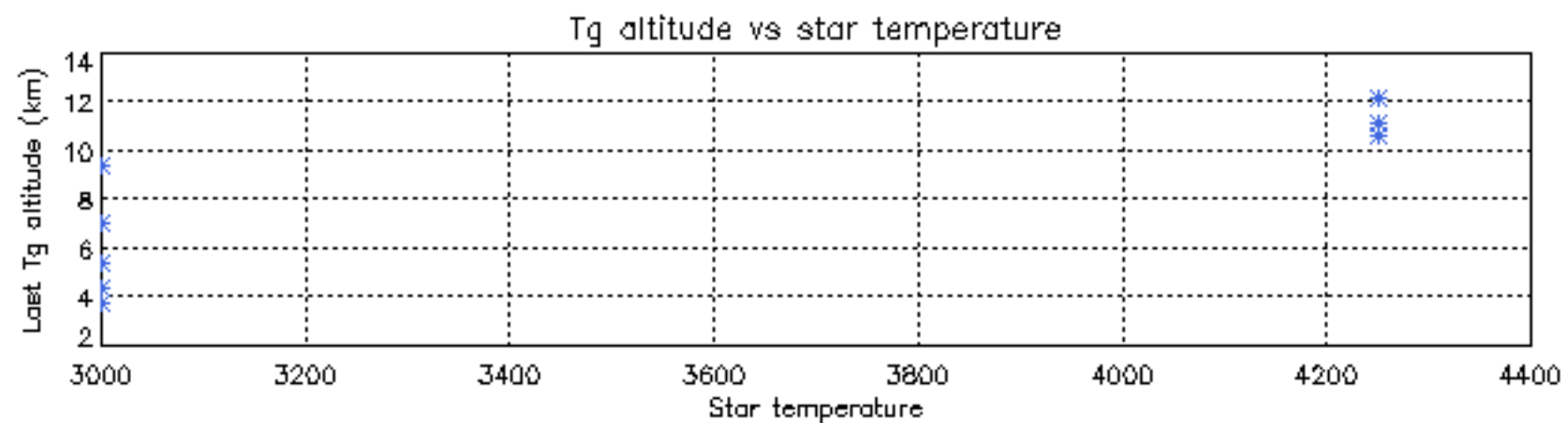
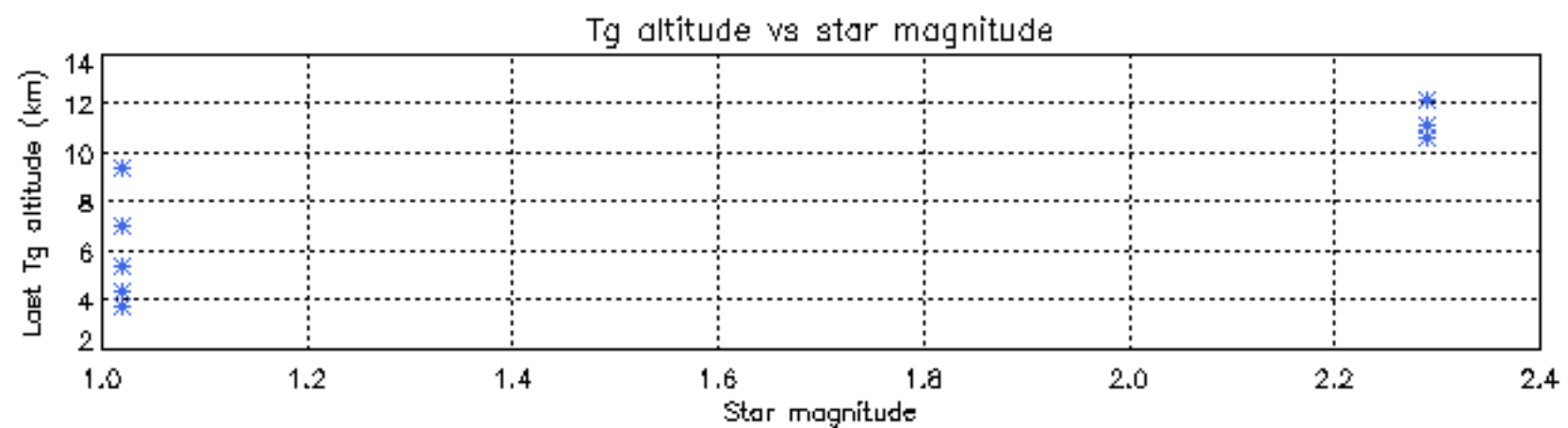
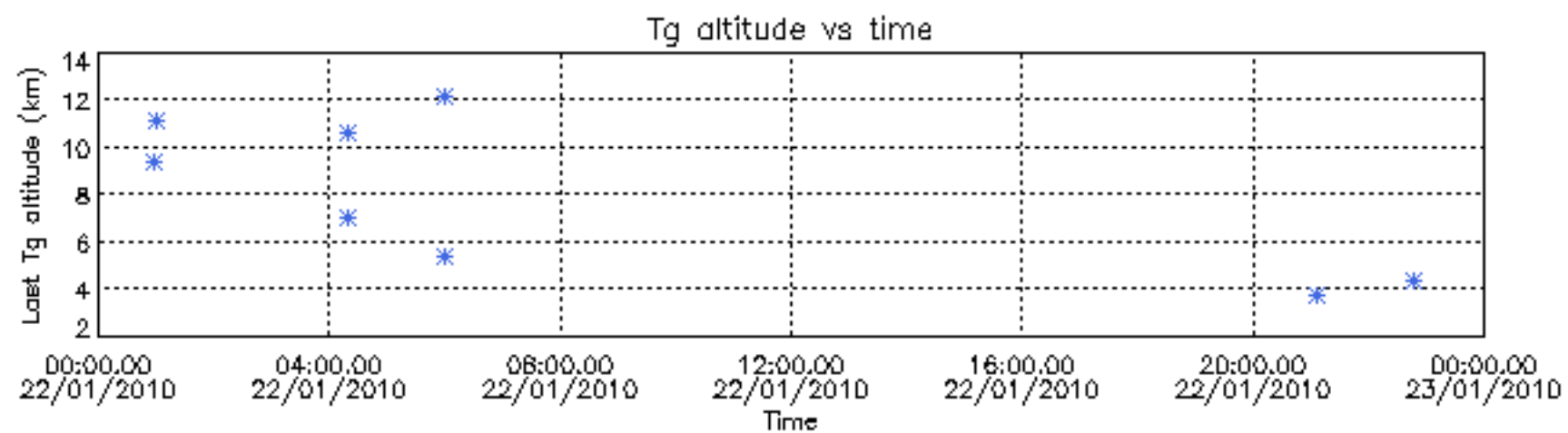
Tangent altitude at which the star is lost

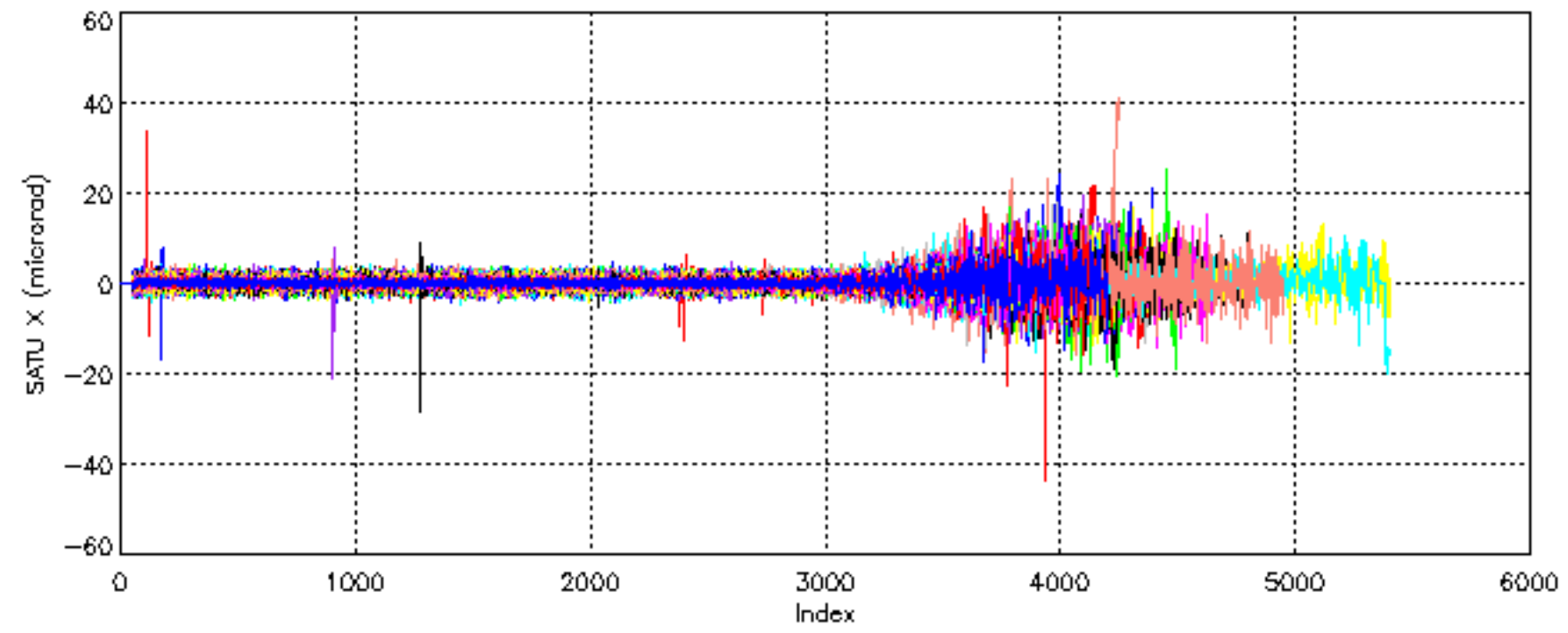


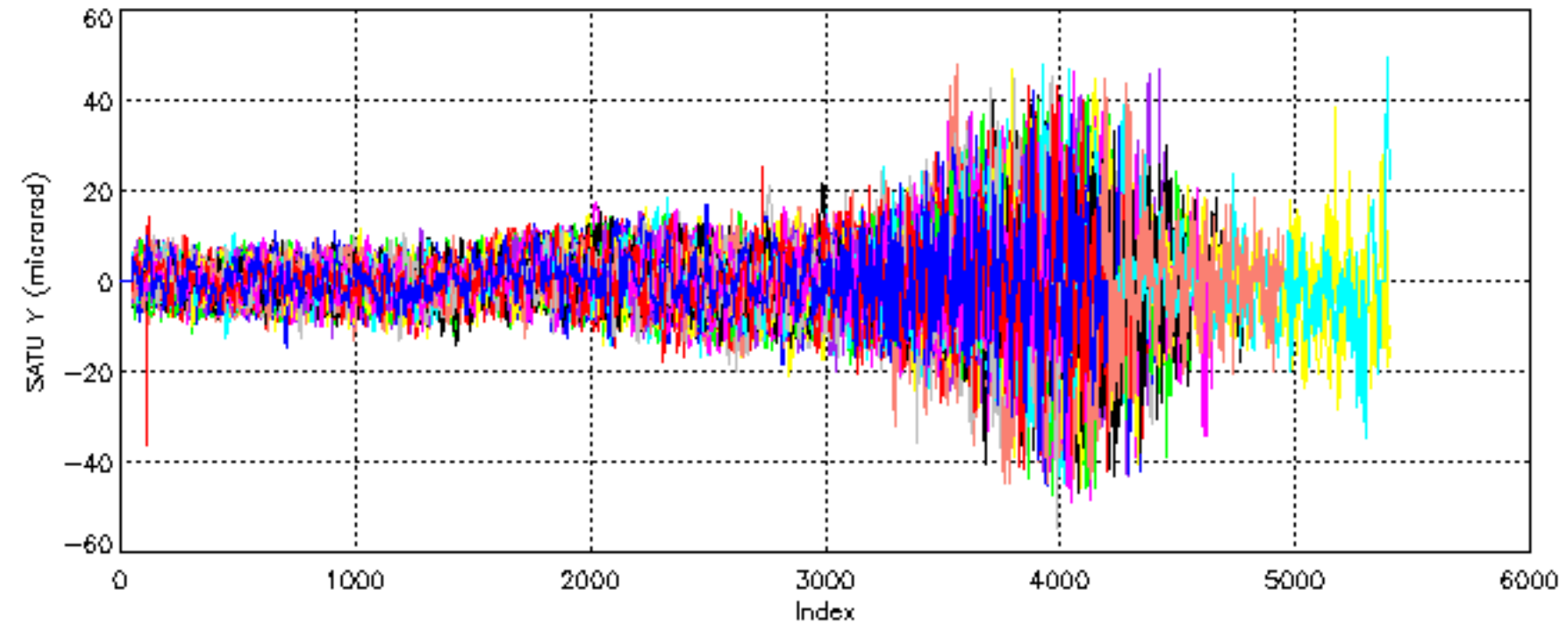
Tangent altitude at which the star is lost

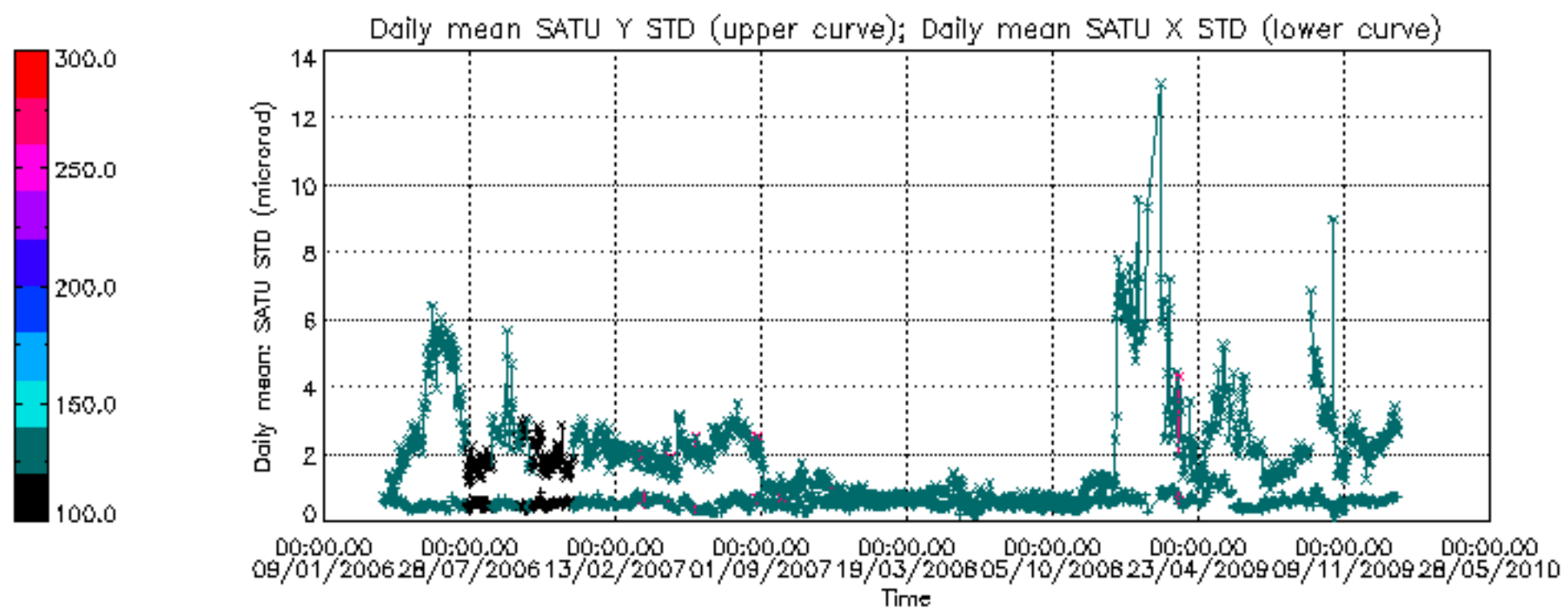


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100101_001436_000059322085_00345_40980_9243.N1

1; -682.4; 01-JAN-2010 00:14:36; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;40980
 2; -269.4; 01-JAN-2010 00:21:29; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;40980
 3; -103.6; 01-JAN-2010 00:24:15; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;40980
 4; 1.0; 01-JAN-2010 00:26:00; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;40981
 5; 106.3; 01-JAN-2010 00:27:45; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40981
 6; 209.9; 01-JAN-2010 00:29:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40981
 7; 476.2; 01-JAN-2010 00:33:55; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40981
 8; 630.5; 01-JAN-2010 00:36:29; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;40981
 9; 727.5; 01-JAN-2010 00:38:06; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;40981
 10; 916.1; 01-JAN-2010 00:41:15; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40981
 11; 1047.9; 01-JAN-2010 00:43:26; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;40981
 12; 1172.3; 01-JAN-2010 00:45:31; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;40981
 13; 1340.4; 01-JAN-2010 00:48:19; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;40981
 14; 1433.2; 01-JAN-2010 00:49:52; Dark ; 44.0; 179; 240mi2CMa ; 3.03; 24000;occ; 88; 0;40981
 15; 1581.4; 01-JAN-2010 00:52:20; Dark ; 45.0; 1; 9Alp CMa ; -1.44; 11000;occ; 90; 0;40981
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 22; 2692.3; 01-JAN-2010 01:10:51; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;40981
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 27; 4574.5; 01-JAN-2010 01:42:13; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;40981
 28; 4770.9; 01-JAN-2010 01:45:29; Bright; 53.5; 3; 16Alp Boo ; -0.05; 4250;occ; 107; 0;40981
 29; 5194.3; 01-JAN-2010 01:52:33; Bright; 55.5; 104; 27Bet Lib ; 2.61; 13100;occ; 111; 0;40981

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 24; 4354.7; 05-JAN-2010 01:12:41; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;41038
 25; 4586.9; 05-JAN-2010 01:16:33; Bright; 65.0; 83; ; 2.38; 11000;occ; 130; 0;41038
 26; 4908.9; 05-JAN-2010 01:21:56; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;41038
 27; 5222.5; 05-JAN-2010 01:27:09; Bright; 42.5; 104; 27Bet Lib ; 2.61; 13100;occ; 85; 0;41038

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 3; -2080.0; 04-JAN-2010 06:39:27; Bright; 47.0; 55; 79Zet UMa ; 2.06; 10200;occ; 94; 0;41027
 4; -1937.3; 04-JAN-2010 06:41:50; Bright; 47.0; 39; 85Eta UMa ; 1.85; 24000;occ; 94; 0;41027
 5; -1681.5; 04-JAN-2010 06:46:06; Bright; 41.0; 180; 27Gam Boo ; 3.04; 8000;occ; 82; 0;41027
 6; -1451.4; 04-JAN-2010 06:49:56; Bright; 45.0; 83; ; 2.38; 11000;occ; 90; 0;41027
 7; -1130.5; 04-JAN-2010 06:55:17; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;41027
 8; -819.0; 04-JAN-2010 07:00:28; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;41027
 9; -653.1; 04-JAN-2010 07:03:14; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;41027
 10; -233.8; 04-JAN-2010 07:10:14; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;41027
 11; 145.3; 04-JAN-2010 07:16:33; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;41028
 12; 253.6; 04-JAN-2010 07:18:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41028
 13; 517.9; 04-JAN-2010 07:22:45; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;41028
 14; 655.5; 04-JAN-2010 07:25:03; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41028
 15; 769.9; 04-JAN-2010 07:26:57; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41028
 16; 939.9; 04-JAN-2010 07:29:47; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;41028
 17; 1071.1; 04-JAN-2010 07:31:58; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;41028
 18; 1189.1; 04-JAN-2010 07:33:56; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;41028
 19; 1353.2; 04-JAN-2010 07:36:41; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;41028
 20; 1443.7; 04-JAN-2010 07:38:11; Dark ; 45.0; 179; 24Omi2CMA ; 3.03; 24000;occ; 90; 0;41028
 21; 1587.4; 04-JAN-2010 07:40:35; Dark ; 48.0; 1; 9Alp CMa ; -1.44; 11000;occ; 96; 0;41028

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 3; 2215.0; 04-JAN-2010 07:51:02; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;41028
 4; 2314.4; 04-JAN-2010 07:52:42; Bright; 52.0; 151; 13Mu Gem ; 2.89; 3000;occ; 104; 0;41028
 5; 2556.5; 04-JAN-2010 07:56:44; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;41028
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 7; 3686.0; 04-JAN-2010 08:15:33; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;41028
 8; 3955.7; 04-JAN-2010 08:20:03; Bright; 44.5; 55; 79Zet UMa ; 2.06; 10200;occ; 89; 0;41028
 9; 4098.5; 04-JAN-2010 08:22:26; Bright; 68.0; 39; 85Eta UMa ; 1.85; 24000;occ; 136; 0;41028
 10; 4354.6; 04-JAN-2010 08:26:42; Bright; 44.0; 180; 27Gam Boo ; 3.04; 8000;occ; 88; 0;41028
 11; 4584.5; 04-JAN-2010 08:30:32; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;41028
 12; 4905.6; 04-JAN-2010 08:35:53; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;41028
 13; 5217.3; 04-JAN-2010 08:41:05; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;41028
 14; 5383.7; 04-JAN-2010 08:43:51; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;41028
 15; 5802.8; 04-JAN-2010 08:50:50; Dark ; 48.0; 54; 5The Cen ; 2.06; 4500;occ; 96; 0;41028
 16; 5963.0; 04-JAN-2010 08:53:30; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;41028
 17; 6065.2; 04-JAN-2010 08:55:13; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;41028
 18; 6182.1; 04-JAN-2010 08:57:10; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41028
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 20; 6554.6; 04-JAN-2010 09:03:22; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;41028
 21; 6691.8; 04-JAN-2010 09:05:39; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41028
 22; 6806.2; 04-JAN-2010 09:07:34; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41028
 23; 6975.9; 04-JAN-2010 09:10:23; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;41028
 24; 7107.2; 04-JAN-2010 09:12:35; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;41028
 25; 7225.4; 04-JAN-2010 09:14:33; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;41028
 26; 7389.3; 04-JAN-2010 09:17:17; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;41028
 27; 7479.7; 04-JAN-2010 09:18:47; Dark ; 43.5; 179; 24Omi2CMA ; 3.03; 24000;occ; 87; 0;41028
 28; 7623.2; 04-JAN-2010 09:21:11; Dark ; 49.5; 1; 9Alp CMa ; -1.44; 11000;occ; 99; 0;41028

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 3; 2214.7; 04-JAN-2010 09:31:38; Dark ; 44.0; 44; 24Gam Gem ; 1.93; 11000;occ; 88; 0;41029
 4; 2314.1; 04-JAN-2010 09:33:17; Bright; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;41029

5; 2556.5; 04-JAN-2010 09:37:20; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;41029
6; 2689.8; 04-JAN-2010 09:39:33; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;41029
7; 3686.2; 04-JAN-2010 09:56:09; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41029
8; 3955.0; 04-JAN-2010 10:00:38; Bright; 49.5; 55; 79Zet UMa ; 2.06; 10200;occ; 99; 0;41029
9; 4098.3; 04-JAN-2010 10:03:02; Bright; 48.0; 39; 85Eta UMa ; 1.85; 24000;occ; 96; 0;41029
10; 4354.4; 04-JAN-2010 10:07:18; Bright; 44.5; 180; 27Gam Boo ; 3.04; 8000;occ; 89; 0;41029
11; 4585.1; 04-JAN-2010 10:11:08; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;41029
12; 4905.7; 04-JAN-2010 10:16:29; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;41029
13; 5218.0; 04-JAN-2010 10:21:41; Bright; 51.0; 104; 27Bet Lib ; 2.61; 13100;occ; 102; 0;41029
14; 5384.3; 04-JAN-2010 10:24:28; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;41029
15; 5803.6; 04-JAN-2010 10:31:27; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;41029
16; 5963.6; 04-JAN-2010 10:34:07; Dark ; 45.5; 95; Zet Cen ; 2.55; 26000;occ; 91; 0;41029
17; 6065.8; 04-JAN-2010 10:35:49; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;41029
18; 6182.9; 04-JAN-2010 10:37:46; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;41029
19; 6291.4; 04-JAN-2010 10:39:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41029
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21; 6692.4; 04-JAN-2010 10:46:16; Dark ; 47.5; 71; Iot Car ; 2.25; 7700;occ; 95; 0;41029
22; 6806.9; 04-JAN-2010 10:48:10; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41029
23; 6976.7; 04-JAN-2010 10:51:00; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;41029
24; 7107.7; 04-JAN-2010 10:53:11; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;41029
25; 7225.8; 04-JAN-2010 10:55:09; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;41029
26; 7389.4; 04-JAN-2010 10:57:53; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;41029
27; 7480.0; 04-JAN-2010 10:59:23; Dark ; 43.5; 179; 240mi2CMa ; 3.03; 24000;occ; 87; 0;41029
28; 7623.3; 04-JAN-2010 11:01:47; Dark ; 17.0; 1; 9Alp CMa ; -1.44; 11000;occ; 34; 0;41029

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3; 2214.6; 04-JAN-2010 11:12:14; Dark ; 45.0; 44; 24Gam Gem ; 1.93; 11000;occ; 90; 0;41030
4; 2313.9; 04-JAN-2010 11:13:53; Bright; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;41030
5; 2556.2; 04-JAN-2010 11:17:55; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;41030
6; 2689.8; 04-JAN-2010 11:20:09; Bright; 55.0; 42; 34Bet Aur ; 1.90; 10200;occ; 110; 0;41030
7; 3685.8; 04-JAN-2010 11:36:45; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;41030
8; 3955.1; 04-JAN-2010 11:41:14; Bright; 44.5; 55; 79Zet UMa ; 2.06; 10200;occ; 89; 0;41030
9; 4354.6; 04-JAN-2010 11:47:54; Bright; 64.0; 180; 27Gam Boo ; 3.04; 8000;occ; 128; 0;41030
10; 4585.2; 04-JAN-2010 11:51:44; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;41030
11; 4906.1; 04-JAN-2010 11:57:05; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;41030
12; 5218.5; 04-JAN-2010 12:02:18; Bright; 42.0; 104; 27Bet Lib ; 2.61; 13100;occ; 84; 0;41030
13; 5385.0; 04-JAN-2010 12:05:04; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;41030
14; 5804.2; 04-JAN-2010 12:12:03; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;41030
15; 5964.4; 04-JAN-2010 12:14:44; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;41030
16; 6066.3; 04-JAN-2010 12:16:25; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41030
17; 6183.8; 04-JAN-2010 12:18:23; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41030
18; 6292.3; 04-JAN-2010 12:20:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41030
19; 6556.3; 04-JAN-2010 12:24:35; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;41030
20; 6692.9; 04-JAN-2010 12:26:52; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41030
21; 6807.3; 04-JAN-2010 12:28:47; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41030
22; 6977.2; 04-JAN-2010 12:31:36; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;41030
23; 7108.3; 04-JAN-2010 12:33:48; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;41030
24; 7225.8; 04-JAN-2010 12:35:45; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;41030
25; 7389.9; 04-JAN-2010 12:38:29; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;41030
26; 7480.1; 04-JAN-2010 12:39:59; Dark ; 43.0; 179; 240mi2CMa ; 3.03; 24000;occ; 86; 0;41030

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3; 2214.3; 04-JAN-2010 12:52:49; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;41031
4; 2313.6; 04-JAN-2010 12:54:29; Bright; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;41031
5; 2556.0; 04-JAN-2010 12:58:31; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;41031
6; 2689.4; 04-JAN-2010 13:00:44; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;41031
7; 3685.5; 04-JAN-2010 13:17:21; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;41031
8; 3954.8; 04-JAN-2010 13:21:50; Bright; 47.0; 55; 79Zet UMa ; 2.06; 10200;occ; 94; 0;41031
9; 4354.7; 04-JAN-2010 13:28:30; Bright; 43.0; 180; 27Gam Boo ; 3.04; 8000;occ; 86; 0;41031
10; 4585.4; 04-JAN-2010 13:32:20; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;41031
11; 4906.7; 04-JAN-2010 13:37:42; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;41031
12; 5218.8; 04-JAN-2010 13:42:54; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;41031
13; 5385.6; 04-JAN-2010 13:45:41; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;41031
14; 5805.2; 04-JAN-2010 13:52:40; Dark ; 56.0; 54; 5The Cen ; 2.06; 4500;occ; 112; 0;41031
15; 5965.1; 04-JAN-2010 13:55:20; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;41031
16; 6066.9; 04-JAN-2010 13:57:02; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0;41031

17; 6184.6; 04-JAN-2010 13:59:00; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41031
 18; 6293.3; 04-JAN-2010 14:00:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41031
 19; 6557.2; 04-JAN-2010 14:05:12; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;41031
 20; 6693.5; 04-JAN-2010 14:07:29; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41031
 21; 6807.8; 04-JAN-2010 14:09:23; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;41031
 22; 6977.7; 04-JAN-2010 14:12:13; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;41031
 23; 7108.7; 04-JAN-2010 14:14:24; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;41031
 24; 7226.6; 04-JAN-2010 14:16:22; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;41031
 25; 7390.2; 04-JAN-2010 14:19:05; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;41031
 26; 7480.6; 04-JAN-2010 14:20:36; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;41031

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 4; 2214.0; 04-JAN-2010 14:33:25; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;41032
 5; 2313.6; 04-JAN-2010 14:35:05; Bright; 46.0; 151; 13Mu Gem ; 2.89; 3000;occ; 92; 0;41032
 6; 2555.9; 04-JAN-2010 14:39:07; Bright; 55.0; 107; 37The Aur ; 2.65; 11000;occ; 110; 0;41032
 7; 2689.5; 04-JAN-2010 14:41:20; Bright; 39.5; 42; 34Bet Aur ; 1.90; 10200;occ; 79; 0;41032
 8; 3685.6; 04-JAN-2010 14:57:57; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41032
 9; 3954.3; 04-JAN-2010 15:02:25; Bright; 49.0; 55; 79Zet UMa ; 2.06; 10200;occ; 98; 0;41032
 10; 4354.6; 04-JAN-2010 15:09:06; Bright; 65.0; 180; 27Gam Boo ; 3.04; 8000;occ; 130; 0;41032
 11; 4585.6; 04-JAN-2010 15:12:57; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;41032
 12; 4907.0; 04-JAN-2010 15:18:18; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;41032
 13; 5219.5; 04-JAN-2010 15:23:30; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;41032
 14; 5386.6; 04-JAN-2010 15:26:18; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;41032
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 16; 5965.9; 04-JAN-2010 15:35:57; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;41032
 17; 6067.7; 04-JAN-2010 15:37:39; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;41032
 18; 6185.4; 04-JAN-2010 15:39:36; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41032
 19; 6294.3; 04-JAN-2010 15:41:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41032
 20; 6558.1; 04-JAN-2010 15:45:49; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;41032
 21; 6694.1; 04-JAN-2010 15:48:05; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;41032
 22; 6808.3; 04-JAN-2010 15:49:59; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41032
 23; 6978.2; 04-JAN-2010 15:52:49; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;41032
 24; 7109.3; 04-JAN-2010 15:55:00; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;41032
 25; 7226.6; 04-JAN-2010 15:56:58; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;41032

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 12; 170.0; 06-JAN-2010 07:54:19; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41057
 13; 280.9; 06-JAN-2010 07:56:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41057
 14; 542.8; 06-JAN-2010 08:00:32; Dark ; 56.5; 113; Mu Vel ; 2.69; 5000;occ; 113; 0;41057
 15; 670.4; 06-JAN-2010 08:02:40; Dark ; 48.5; 71; Iot Car ; 2.25; 7700;occ; 97; 0;41057
 16; 784.3; 06-JAN-2010 08:04:34; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41057
 17; 953.2; 06-JAN-2010 08:07:23; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;41057
 18; 1084.0; 06-JAN-2010 08:09:33; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;41057
 19; 1198.4; 06-JAN-2010 08:11:28; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;41057
 20; 1360.5; 06-JAN-2010 08:14:10; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;41057
 21; 1449.8; 06-JAN-2010 08:15:39; Dark ; 42.5; 179; 240mi2CMa ; 3.03; 24000;occ; 85; 0;41057
 22; 1591.2; 06-JAN-2010 08:18:01; Dark ; 47.0; 1; 9Alp CMa ; -1.44; 11000;occ; 94; 0;41057

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 2; 2030.8; 06-JAN-2010 08:25:20; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;41057
 3; 2207.8; 06-JAN-2010 08:28:17; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0;41057
 4; 2308.0; 06-JAN-2010 08:29:57; Bright; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;41057
 5; 2551.5; 06-JAN-2010 08:34:01; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;41057
 6; 2684.4; 06-JAN-2010 08:36:14; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0;41057
 7; 3682.3; 06-JAN-2010 08:52:52; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41057
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 9; 4091.1; 06-JAN-2010 08:59:40; Bright; 47.0; 39; 85Eta UMa ; 1.85; 24000;occ; 94; 0;41057
 10; 4354.8; 06-JAN-2010 09:04:04; Bright; 43.5; 180; 27Gam Boo ; 3.04; 8000;occ; 87; 0;41057
 11; 4591.4; 06-JAN-2010 09:08:01; Bright; 66.0; 83; ; 2.38; 11000;occ; 132; 0;41057
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 13; 5232.8; 06-JAN-2010 09:18:42; Dark ; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;41057
 14; 5403.7; 06-JAN-2010 09:21:33; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;41057
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 16; 5982.4; 06-JAN-2010 09:31:12; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;41057
 17; 6082.7; 06-JAN-2010 09:32:52; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;41057
 18; 6206.9; 06-JAN-2010 09:34:56; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;41057
 19; 6317.7; 06-JAN-2010 09:36:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41057
 20; 6579.6; 06-JAN-2010 09:41:09; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;41057
 21; 6706.7; 06-JAN-2010 09:43:16; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;41057
 22; 6820.8; 06-JAN-2010 09:45:10; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41057
 23; 6989.6; 06-JAN-2010 09:47:59; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;41057
 24; 7120.6; 06-JAN-2010 09:50:10; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;41057
 25; 7234.6; 06-JAN-2010 09:52:04; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;41057
 26; 7396.5; 06-JAN-2010 09:54:46; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;41057
 27; 7485.9; 06-JAN-2010 09:56:15; Dark ; 42.5; 179; 240mi2CMa ; 3.03; 24000;occ; 85; 0;41057
 28; 7627.0; 06-JAN-2010 09:58:36; Dark ; 49.0; 1; 9Alp CMa ; -1.44; 11000;occ; 98; 0;41057

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 3; 2207.4; 06-JAN-2010 10:08:53; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;41058

4; 2307.8; 06-JAN-2010 10:10:33; Bright; 42.5; 151; 13Mu Gem ; 2.89; 3000;occ; 85; 0;41058
5; 2551.2; 06-JAN-2010 10:14:36; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;41058
6; 2684.3; 06-JAN-2010 10:16:50; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;41058
7; 3682.5; 06-JAN-2010 10:33:28; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41058
8; 3924.4; 06-JAN-2010 10:37:30; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;41058
9; 4091.0; 06-JAN-2010 10:40:16; Bright; 44.0; 39; 85Eta UMa ; 1.85; 24000;occ; 88; 0;41058
10; 4354.8; 06-JAN-2010 10:44:40; Bright; 46.0; 180; 27Gam Boo ; 3.04; 8000;occ; 92; 0;41058
11; 4591.7; 06-JAN-2010 10:48:37; Bright; 64.0; 83; ; 2.38; 11000;occ; 128; 0;41058
12; 4916.1; 06-JAN-2010 10:54:01; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;41058
13; 5233.3; 06-JAN-2010 10:59:19; Dark ; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;41058
14; 5404.3; 06-JAN-2010 11:02:10; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;41058
15; 5826.9; 06-JAN-2010 11:09:12; Dark ; 50.0; 54; 5The Cen ; 2.06; 4500;occ; 100; 0;41058
16; 5983.4; 06-JAN-2010 11:11:49; Dark ; 44.0; 95; Zet Cen ; 2.55; 26000;occ; 88; 0;41058
17; 6083.5; 06-JAN-2010 11:13:29; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;41058
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19; 6318.6; 06-JAN-2010 11:17:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41058
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21; 6707.2; 06-JAN-2010 11:23:52; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41058
22; 6821.3; 06-JAN-2010 11:25:47; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;41058
23; 6990.2; 06-JAN-2010 11:28:35; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;41058
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25; 7235.1; 06-JAN-2010 11:32:40; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;41058
26; 7396.9; 06-JAN-2010 11:35:22; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;41058
27; 7485.9; 06-JAN-2010 11:36:51; Dark ; 42.5; 179; 240mi2CMa ; 3.03; 24000;occ; 85; 0;41058

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3; 2030.9; 06-JAN-2010 11:46:32; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;41059
4; 2207.2; 06-JAN-2010 11:49:28; Dark ; 45.5; 44; 24Gam Gem ; 1.93; 11000;occ; 91; 0;41059
5; 2307.5; 06-JAN-2010 11:51:09; Bright; 43.5; 151; 13Mu Gem ; 2.89; 3000;occ; 87; 0;41059
6; 2551.0; 06-JAN-2010 11:55:12; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;41059
7; 2684.2; 06-JAN-2010 11:57:25; Bright; 39.5; 42; 34Bet Aur ; 1.90; 10200;occ; 79; 0;41059
8; 3682.0; 06-JAN-2010 12:14:03; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;41059
9; 3924.5; 06-JAN-2010 12:18:06; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;41059
10; 4090.4; 06-JAN-2010 12:20:52; Bright; 47.5; 39; 85Eta UMa ; 1.85; 24000;occ; 95; 0;41059
11; 4354.6; 06-JAN-2010 12:25:16; Bright; 44.0; 180; 27Gam Boo ; 3.04; 8000;occ; 88; 0;41059
12; 4592.0; 06-JAN-2010 12:29:13; Bright; 51.0; 83; ; 2.38; 11000;occ; 102; 0;41059
13; 4916.4; 06-JAN-2010 12:34:38; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;41059
14; 5233.9; 06-JAN-2010 12:39:55; Dark ; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;41059
15; 5405.2; 06-JAN-2010 12:42:46; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;41059
16; 5827.8; 06-JAN-2010 12:49:49; Dark ; 47.5; 54; 5The Cen ; 2.06; 4500;occ; 95; 0;41059
17; 5983.8; 06-JAN-2010 12:52:25; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;41059
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19; 6208.4; 06-JAN-2010 12:56:10; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41059
20; 6319.6; 06-JAN-2010 12:58:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41059
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22; 6707.7; 06-JAN-2010 13:04:29; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;41059
23; 6821.8; 06-JAN-2010 13:06:23; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41059
24; 6990.4; 06-JAN-2010 13:09:11; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;41059
25; 7121.2; 06-JAN-2010 13:11:22; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;41059
26; 7235.6; 06-JAN-2010 13:13:17; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;41059
27; 7397.0; 06-JAN-2010 13:15:58; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;41059
28; 7486.1; 06-JAN-2010 13:17:27; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;41059

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4; 2207.0; 06-JAN-2010 13:30:04; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;41060
5; 2307.3; 06-JAN-2010 13:31:44; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;41060
6; 2550.9; 06-JAN-2010 13:35:48; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;41060
7; 2684.0; 06-JAN-2010 13:38:01; Bright; 39.5; 42; 34Bet Aur ; 1.90; 10200;occ; 79; 0;41060
8; 3682.2; 06-JAN-2010 13:54:39; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;41060
9; 3924.5; 06-JAN-2010 13:58:42; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;41060
10; 4090.3; 06-JAN-2010 14:01:27; Bright; 46.5; 39; 85Eta UMa ; 1.85; 24000;occ; 93; 0;41060
11; 4354.9; 06-JAN-2010 14:05:52; Bright; 44.0; 180; 27Gam Boo ; 3.04; 8000;occ; 88; 0;41060
12; 4591.9; 06-JAN-2010 14:09:49; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;41060
13; 4916.8; 06-JAN-2010 14:15:14; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;41060
14; 5234.6; 06-JAN-2010 14:20:32; Dark ; 43.5; 104; 27Bet Lib ; 2.61; 13100;occ; 87; 0;41060

15; 5405.7; 06-JAN-2010 14:23:23; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;41060
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 17; 5984.5; 06-JAN-2010 14:33:02; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;41060
 18; 6084.7; 06-JAN-2010 14:34:42; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;41060
 19; 6209.4; 06-JAN-2010 14:36:46; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41060
 20; 6320.6; 06-JAN-2010 14:38:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41060
 21; 6582.1; 06-JAN-2010 14:42:59; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;41060
 22; 6708.2; 06-JAN-2010 14:45:05; Dark ; 49.5; 71; Iot Car ; 2.25; 7700;occ; 99; 0;41060
 23; 6822.4; 06-JAN-2010 14:46:59; Dark ; 47.0; 46; Del Vel ; 1.95; 10600;occ; 94; 0;41060
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 25; 7121.8; 06-JAN-2010 14:51:59; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;41060
 26; 7235.9; 06-JAN-2010 14:53:53; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;41060
 27; 7397.4; 06-JAN-2010 14:56:34; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;41060
 28; 7486.8; 06-JAN-2010 14:58:04; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0;41060

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 4; 2207.0; 06-JAN-2010 15:10:40; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;41061
 5; 2307.0; 06-JAN-2010 15:12:20; Bright; 48.5; 151; 13Mu Gem ; 2.89; 3000;occ; 97; 0;41061
 6; 2550.8; 06-JAN-2010 15:16:24; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;41061
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 9; 3924.5; 06-JAN-2010 15:39:17; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;41061
 10; 4090.2; 06-JAN-2010 15:42:03; Bright; 50.5; 39; 85Eta UMa ; 1.85; 24000;occ; 101; 0;41061
 11; 4355.1; 06-JAN-2010 15:46:28; Bright; 50.0; 180; 27Gam Boo ; 3.04; 8000;occ; 100; 0;41061
 12; 4592.3; 06-JAN-2010 15:50:25; Bright; 66.0; 83; ; 2.38; 11000;occ; 132; 0;41061
 13; 4917.1; 06-JAN-2010 15:55:50; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;41061
 14; 5235.1; 06-JAN-2010 16:01:08; Dark ; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;41061
 15; 5407.0; 06-JAN-2010 16:04:00; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;41061
 16; 5829.4; 06-JAN-2010 16:11:02; Dark ; 52.5; 54; 5The Cen ; 2.06; 4500;occ; 105; 0;41061
 17; 5985.4; 06-JAN-2010 16:13:38; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;41061
 18; 6085.4; 06-JAN-2010 16:15:18; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;41061
 19; 6210.3; 06-JAN-2010 16:17:23; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41061
 20; 6321.6; 06-JAN-2010 16:19:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41061
 21; 6583.1; 06-JAN-2010 16:23:36; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;41061
 22; 6708.6; 06-JAN-2010 16:25:42; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;41061
 23; 6823.0; 06-JAN-2010 16:27:36; Dark ; 47.5; 46; Del Vel ; 1.95; 10600;occ; 95; 0;41061
 24; 6991.6; 06-JAN-2010 16:30:25; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;41061
 25; 7122.5; 06-JAN-2010 16:32:35; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;41061
 26; 7236.2; 06-JAN-2010 16:34:29; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;41061

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 2; 1361.5; 06-JAN-2010 16:37:10; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;41062
 3; 1450.9; 06-JAN-2010 16:38:40; Dark ; 43.5; 179; 240mi2CMa ; 3.03; 24000;occ; 87; 0;41062
 4; 1591.7; 06-JAN-2010 16:41:01; Dark ; 48.0; 1; 9Alp CMa ; -1.44; 11000;occ; 96; 0;41062
 5; 2031.0; 06-JAN-2010 16:48:20; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;41062
 6; 2207.0; 06-JAN-2010 16:51:16; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;41062
 7; 2306.9; 06-JAN-2010 16:52:56; Bright; 46.0; 151; 13Mu Gem ; 2.89; 3000;occ; 92; 0;41062
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 9; 2683.6; 06-JAN-2010 16:59:12; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;41062
 10; 3681.8; 06-JAN-2010 17:15:51; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41062
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13;	1594.0;	07-JAN-2010	22:51:50;	Dark	;	46.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	92;	0;	41080
14;	2031.1;	07-JAN-2010	22:59:07;	Dark	;	53.0;	14;	58Alp Ori	;	0.87;	3000;occ;	106;	0;	41080
15;	2202.9;	07-JAN-2010	23:01:59;	Dark	;	47.0;	44;	24Gam Gem	;	1.93;	11000;occ;	94;	0;	41080
16;	2303.6;	07-JAN-2010	23:03:39;	Bright;	;	44.5;	151;	13Mu Gem	;	2.89;	3000;occ;	89;	0;	41080
17;	2395.2;	07-JAN-2010	23:05:11;	Bright;	;	38.5;	28;	12Bet Tau	;	1.65;	15200;occ;	77;	0;	41080
18;	2547.9;	07-JAN-2010	23:07:44;	Bright;	;	37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	41080
19;	2680.9;	07-JAN-2010	23:09:57;	Bright;	;	36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	41080
20;	3423.8;	07-JAN-2010	23:22:19;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	41080
21;	3679.6;	07-JAN-2010	23:26:35;	Bright;	;	39.5;	60;	7Bet UMi	;	2.08;	3950;occ;	79;	0;	41080
22;	3924.5;	07-JAN-2010	23:30:40;	Bright;	;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	41080
23;	4437.5;	07-JAN-2010	23:39:13;	Bright;	;	33.0;	133;	40Zet Her	;	2.81;	6000;occ;	66;	0;	41080
24;	4565.0;	07-JAN-2010	23:41:21;	Bright;	;	38.0;	67;	5Alp CrB	;	2.22;	11000;occ;	76;	0;	41080
25;	4923.8;	07-JAN-2010	23:47:20;	Bright;	;	57.0;	102;	24Alp Ser	;	2.60;	4250;occ;	114;	0;	41080
26;	5057.7;	07-JAN-2010	23:49:33;	Bright;	;	34.0;	120;	1Del Oph	;	2.73;	3200;occ;	68;	0;	41080
27;	5245.9;	07-JAN-2010	23:52:42;	Dark	;	46.5;	104;	27Bet Lib	;	2.61;	13100;occ;	93;	0;	41080

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2;	-650.3;	07-JAN-2010	23:55:01;	Dark	;	42.0;	80;	7Del Sco	;	2.32;	30000;occ;	84;	0;	41080
3;	-37.2;	08-JAN-2010	00:05:14;	Dark	;	41.0;	95;	Zet Cen	;	2.55;	26000;occ;	82;	0;	41080
4;	82.4;	08-JAN-2010	00:07:14;	Dark	;	50.0;	10;	Bet Cen	;	0.61;	28000;occ;	100;	0;	41081
5;	223.3;	08-JAN-2010	00:09:35;	Dark	;	40.5;	20;	Bet Cru	;	1.25;	30000;occ;	81;	0;	41081
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7;	481.9;	08-JAN-2010	00:13:53;	Dark	;	38.5;	124;	The Car	;	2.76;	30000;occ;	77;	0;	41081
8;	574.7;	08-JAN-2010	00:15:26;	Dark	;	40.0;	159;	Ups Car	;	2.92;	7200;occ;	80;	0;	41081
9;	682.1;	08-JAN-2010	00:17:14;	Dark	;	44.0;	71;	Iot Car	;	2.25;	7700;occ;	88;	0;	41081
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11;	963.8;	08-JAN-2010	00:21:55;	Dark	;	43.0;	34;	Gam2Vel	;	1.79;	23000;occ;	86;	0;	41081
12;	1094.6;	08-JAN-2010	00:24:06;	Dark	;	42.0;	70;	Zet Pup	;	2.25;	39000;occ;	84;	0;	41081
13;	1206.1;	08-JAN-2010	00:25:58;	Dark	;	46.0;	117;	Pi Pup	;	2.71;	3800;occ;	92;	0;	41081
14;	1366.0;	08-JAN-2010	00:28:38;	Dark	;	44.0;	23;	21Eps CMA	;	1.50;	26000;occ;	88;	0;	41081
15;	1454.4;	08-JAN-2010	00:30:06;	Dark	;	42.0;	179;	240mi2CMA	;	3.03;	24000;occ;	84;	0;	41081
16;	1593.9;	08-JAN-2010	00:32:25;	Dark	;	46.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	92;	0;	41081
17;	2031.2;	08-JAN-2010	00:39:43;	Dark	;	53.0;	14;	58Alp Ori	;	0.87;	3000;occ;	106;	0;	41081
18;	2202.7;	08-JAN-2010	00:42:34;	Dark	;	47.5;	44;	24Gam Gem	;	1.93;	11000;occ;	95;	0;	41081
19;	2303.4;	08-JAN-2010	00:44:15;	Bright;	;	44.5;	151;	13Mu Gem	;	2.89;	3000;occ;	89;	0;	41081
20;	2395.0;	08-JAN-2010	00:45:47;	Bright;	;	39.0;	28;	12Bet Tau	;	1.65;	15200;occ;	78;	0;	41081
21;	2680.7;	08-JAN-2010	00:50:32;	Bright;	;	38.5;	42;	34Bet Aur	;	1.90;	10200;occ;	77;	0;	41081
22;	3424.1;	08-JAN-2010	01:02:56;	Bright;	;	33.0;	49;	1Alp UMi	;	1.99;	6300;occ;	66;	0;	41081
23;	4924.4;	08-JAN-2010	01:27:56;	Bright;	;	57.0;	102;	24Alp Ser	;	2.60;	4250;occ;	114;	0;	41081
24;	5058.1;	08-JAN-2010	01:30:10;	Bright;	;	52.5;	120;	1Del Oph	;	2.73;	3200;occ;	105;	0;	41081

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2;	2204.9;	07-JAN-2010	07:56:37;	Dark	;	46.0;	44;	24Gam Gem	;	1.93;	11000;occ;	92;	0;	41071
3;	2305.2;	07-JAN-2010	07:58:18;	Bright;	;	45.5;	151;	13Mu Gem	;	2.89;	3000;occ;	91;	0;	41071
4;	2549.5;	07-JAN-2010	08:02:22;	Bright;	;	38.0;	107;	37The Aur	;	2.65;	11000;occ;	76;	0;	41071
5;	2682.4;	07-JAN-2010	08:04:35;	Bright;	;	38.0;	42;	34Bet Aur	;	1.90;	10200;occ;	76;	0;	41071
6;	3681.0;	07-JAN-2010	08:21:13;	Bright;	;	34.0;	60;	7Bet UMi	;	2.08;	3950;occ;	68;	0;	41071
7;	3924.6;	07-JAN-2010	08:25:17;	Bright;	;	39.5;	119;	14Eta Dra	;	2.73;	4700;occ;	79;	0;	41071
8;	4087.2;	07-JAN-2010	08:27:59;	Bright;	;	52.5;	39;	85Eta UMa	;	1.85;	24000;occ;	105;	0;	41071
9;	4355.1;	07-JAN-2010	08:32:27;	Bright;	;	43.5;	180;	27Gam Boo	;	3.04;	8000;occ;	87;	0;	41071
10;	4594.8;	07-JAN-2010	08:36:27;	Bright;	;	67.0;	83;		;	2.38;	11000;occ;	134;	0;	41071
11;	4920.7;	07-JAN-2010	08:41:53;	Bright;	;	56.0;	102;	24Alp Ser	;	2.60;	4250;occ;	112;	0;	41071
12;	5241.0;	07-JAN-2010	08:47:13;	Dark	;	31.5;	104;	27Bet Lib	;	2.61;	13100;occ;	63;	0;	41071
13;	5413.9;	07-JAN-2010	08:50:06;	Dark	;	46.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	92;	0;	41071
14;	5838.0;	07-JAN-2010	08:57:10;	Dark	;	49.5;	54;	5The Cen	;	2.06;	4500;occ;	99;	0;	41071

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 19; 6591.8; 07-JAN-2010 09:09:44; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;41071
 20; 6713.8; 07-JAN-2010 09:11:46; Dark ; 47.5; 71; Iot Car ; 2.25; 7700;occ; 95; 0;41071
 21; 6827.7; 07-JAN-2010 09:13:40; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;41071
 22; 6995.8; 07-JAN-2010 09:16:28; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;41071
 23; 7126.9; 07-JAN-2010 09:18:39; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;41071
 24; 7239.3; 07-JAN-2010 09:20:32; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;41071
 25; 7400.0; 07-JAN-2010 09:23:12; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;41071
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 3; 2305.1; 07-JAN-2010 09:38:53; Bright; 56.0; 151; 13Mu Gem ; 2.89; 3000;occ; 112; 0;41072
 4; 2549.4; 07-JAN-2010 09:42:58; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;41072
 5; 2682.1; 07-JAN-2010 09:45:10; Bright; 39.0; 42; 34Bet Aur ; 1.90; 10200;occ; 78; 0;41072
 6; 3680.7; 07-JAN-2010 10:01:49; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;41072
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 8; 4087.0; 07-JAN-2010 10:08:35; Bright; 50.0; 39; 85Eta UMa ; 1.85; 24000;occ; 100; 0;41072
 9; 4354.8; 07-JAN-2010 10:13:03; Bright; 46.5; 180; 27Gam Boo ; 3.04; 8000;occ; 93; 0;41072
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 11; 4921.1; 07-JAN-2010 10:22:29; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;41072
 12; 5241.3; 07-JAN-2010 10:27:50; Dark ; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;41072
 13; 5415.0; 07-JAN-2010 10:30:43; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;41072
 14; 5838.7; 07-JAN-2010 10:37:47; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;41072
 15; 5993.2; 07-JAN-2010 10:40:21; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;41072
 16; 6092.3; 07-JAN-2010 10:42:01; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;41072
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 8; 3924.6; 07-JAN-2010 11:46:29; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;41073
 9; 4086.8; 07-JAN-2010 11:49:11; Bright; 50.0; 39; 85Eta UMa ; 1.85; 24000;occ; 100; 0;41073
 10; 4355.1; 07-JAN-2010 11:53:39; Bright; 67.0; 180; 27Gam Boo ; 3.04; 8000;occ; 134; 0;41073
 11; 4595.4; 07-JAN-2010 11:57:40; Bright; 67.0; 83; ; 2.38; 11000;occ; 134; 0;41073
 12; 4921.4; 07-JAN-2010 12:03:06; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;41073
 13; 5241.7; 07-JAN-2010 12:08:26; Dark ; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;41073
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 22; 6828.6; 07-JAN-2010 12:34:53; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41073
 23; 6996.8; 07-JAN-2010 12:37:41; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;41073
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9; 4086.4; 07-JAN-2010 13:29:46; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;41074
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11; 4595.4; 07-JAN-2010 13:38:15; Bright; 49.0; 83; ; 2.38; 11000;occ; 98; 0;41074
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13; 5242.7; 07-JAN-2010 13:49:03; Dark ; 47.0; 104; 27Bet Lib ; 2.61; 13100;occ; 94; 0;41074
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15;	683.8;	08-JAN-2010	05:19:03;	Dark	; 43.0;	71;	Iot Car	; 2.25;	7700;occ;	86;	0;41084
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24;	2202.4;	08-JAN-2010	05:44:22;	Dark	; 47.0;	44;	24Gam Gem	; 1.93;	11000;occ;	94;	0;41084
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26;	2395.4;	08-JAN-2010	05:47:35;	Bright;	38.5;	28;	12Bet Tau	; 1.65;	15200;occ;	77;	0;41084
27;	2547.9;	08-JAN-2010	05:50:07;	Bright;	37.0;	107;	37The Aur	; 2.65;	11000;occ;	74;	0;41084
28;	2680.7;	08-JAN-2010	05:52:20;	Bright;	38.5;	42;	34Bet Aur	; 1.90;	10200;occ;	77;	0;41084
29;	3423.9;	08-JAN-2010	06:04:43;	Bright;	37.0;	49;	1Alp UMi	; 1.99;	6300;occ;	74;	0;41084
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9;	-230.0;	08-JAN-2010	06:44:25;	Dark	; 40.0;	109;	Bet Lup	; 2.68;	26000;occ;	80;	0;41084
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13;	307.3;	08-JAN-2010	06:53:23;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;41085
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4;	2395.5;	08-JAN-2010	07:28:11;	Bright;	39.0;	28;	12Bet Tau	; 1.65;	15200;occ;	78;	0;41085
5;	2547.7;	08-JAN-2010	07:30:43;	Bright;	38.0;	107;	37The Aur	; 2.65;	11000;occ;	76;	0;41085
6;	2680.5;	08-JAN-2010	07:32:56;	Bright;	38.0;	42;	34Bet Aur	; 1.90;	10200;occ;	76;	0;41085
7;	3424.1;	08-JAN-2010	07:45:19;	Bright;	36.0;	49;	1Alp UMi	; 1.99;	6300;occ;	72;	0;41085
8;	3678.8;	08-JAN-2010	07:49:34;	Bright;	35.0;	60;	7Bet UMi	; 2.08;	3950;occ;	70;	0;41085
9;	3924.6;	08-JAN-2010	07:53:40;	Bright;	38.0;	119;	14Eta Dra	; 2.73;	4700;occ;	76;	0;41085
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11;	4566.0;	08-JAN-2010	08:04:21;	Bright;	38.5;	67;	5Alp CrB	; 2.22;	11000;occ;	77;	0;41085
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13;	5059.3;	08-JAN-2010	08:12:35;	Bright;	53.0;	120;	1Del Oph	; 2.73;	3200;occ;	106;	0;41085
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23; 2672.5; 13-JAN-2010 23:21:18; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;41166
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26; 3922.7; 13-JAN-2010 23:42:08; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;41166
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22; 2296.5; 25-JAN-2010 21:57:25; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;41337
23; 2410.9; 25-JAN-2010 21:59:20; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;41337

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 27; 3909.0; 25-JAN-2010 22:24:18; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;41337
 28; 4085.9; 25-JAN-2010 22:27:15; Bright; 51.0; 130; 23Bet Dra ; 2.80; 5800;occ; 102; 0;41337
 29; 4474.8; 25-JAN-2010 22:33:44; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;41337
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 33; 5177.4; 25-JAN-2010 22:45:26; Dark ; 53.5; 120; 1Del Oph ; 2.73; 3200;occ; 107; 0;41337
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 23; 3426.7; 25-JAN-2010 23:56:51; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;41338
 24; 3633.7; 26-JAN-2010 00:00:18; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;41338
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 26; 4086.0; 26-JAN-2010 00:07:51; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;41338
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 31; 5177.9; 26-JAN-2010 00:26:03; Dark ; 53.5; 120; 1Del Oph ; 2.73; 3200;occ; 107; 0;41338
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 5; -1360.9; 25-JAN-2010 07:31:41; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;41328
 6; -1264.2; 25-JAN-2010 07:33:17; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;41328
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7; 3426.6; 25-JAN-2010 08:51:28; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;41329
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11; 4473.7; 25-JAN-2010 09:08:55; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;41329
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13; 4772.1; 25-JAN-2010 09:13:53; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;41329
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20; 6180.8; 25-JAN-2010 09:37:22; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;41329
21; 6273.4; 25-JAN-2010 09:38:55; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41329
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26; 7430.0; 25-JAN-2010 09:58:11; Dark ; 40.5; 88; 31Eta CMa ; 2.45; 20000;occ; 81; 0;41329
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28; 7305.6; 25-JAN-2010 13:17:19; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;41331
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30; 7495.2; 27-JAN-2010 12:17:14; Dark ; 43.0; 37; 25Del CMa ; 1.83; 5900;occ; 86; 0;41359

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2; 2191.2; 27-JAN-2010 12:29:26; Bright; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;41360
3; 2299.4; 27-JAN-2010 12:31:14; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;41360
4; 2405.6; 27-JAN-2010 12:33:00; Bright; 43.0; 17; 78Bet Gem ; 1.16; 4500;occ; 86; 0;41360
5; 3426.9; 27-JAN-2010 12:50:02; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;41360
6; 3629.1; 27-JAN-2010 12:53:24; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;41360
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11; 4779.7; 27-JAN-2010 13:12:35; Bright; 47.0; 59; 55Alp Oph ; 2.08; 8900;occ; 94; 0;41360
12; 4906.7; 27-JAN-2010 13:14:42; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;41360
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17; 5870.6; 27-JAN-2010 13:30:45; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;41360
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29; 7495.1; 27-JAN-2010 13:57:50; Dark ; 41.5; 37; 25Del CMa ; 1.83; 5900;occ; 83; 0;41360

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1; 1459.8; 27-JAN-2010 15:38:27; Dark ; 40.5; 37; 25Del CMa ; 1.83; 5900;occ; 81; 0;41362
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 3; 2191.4; 27-JAN-2010 15:50:38; Bright; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;41362
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 5; 2405.4; 27-JAN-2010 15:54:12; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;41362
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 22; 6472.8; 27-JAN-2010 17:01:59; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;41362
 23; 6596.7; 27-JAN-2010 17:04:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41362
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1; 1075.3; 27-JAN-2010 17:12:38; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 23;41363
 2; 1189.4; 27-JAN-2010 17:14:32; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;41363
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 5; 2191.3; 27-JAN-2010 17:31:14; Bright; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;41363
 6; 2299.4; 27-JAN-2010 17:33:02; Bright; 40.5; 151; 13Mu Gem ; 2.89; 3000;occ; 81; 0;41363
 7; 2405.1; 27-JAN-2010 17:34:48; Bright; 43.0; 17; 78Bet Gem ; 1.16; 4500;occ; 86; 0;41363
 8; 3427.1; 27-JAN-2010 17:51:50; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;41363
 9; 3628.4; 27-JAN-2010 17:55:11; Bright; 45.0; 60; 7Bet UMi ; 2.08; 3950;occ; 90; 0;41363
 10; 3905.8; 27-JAN-2010 17:59:49; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;41363
 11; 4086.9; 27-JAN-2010 18:02:50; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;41363
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 17; 5532.8; 27-JAN-2010 18:26:55; Dark ; 57.0; 16; 21Alp Sco ; 1.02; 3000;occ; 114; 0;41363
 18; 5612.7; 27-JAN-2010 18:28:15; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;41363

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 20; 5999.9; 27-JAN-2010 18:34:43; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;41363
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 24; 6473.1; 27-JAN-2010 18:42:36; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;41363
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5; 3427.4; 28-JAN-2010 08:57:13; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;41372
6; 3626.0; 28-JAN-2010 09:00:32; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41372
7; 3904.9; 28-JAN-2010 09:05:11; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;41372
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9; 4479.8; 28-JAN-2010 09:14:46; Bright; 60.0; 133; 40Zet Her ; 2.81; 6000;occ; 120; 0;41372
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17; 6007.2; 28-JAN-2010 09:40:13; Dark ; 43.0; 109; Bet Lup ; 2.68; 26000;occ; 86; 0;41372
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23; 6727.2; 28-JAN-2010 09:52:13; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;41372
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27; 7228.1; 28-JAN-2010 10:00:34; Dark ; 38.5; 70; Zet Pup ; 2.25; 39000;occ; 77; 0;41372
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3; 2337.0; 28-JAN-2010 10:19:39; Bright; 39.0; 170; 27Eps Gem ; 3.00; 9700;occ; 78; 0;41373
4; 2463.4; 28-JAN-2010 10:21:45; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;41373
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9; 4479.9; 28-JAN-2010 10:55:22; Bright; 60.0; 133; 40Zet Her ; 2.81; 6000;occ; 120; 0;41373
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12; 4910.2; 28-JAN-2010 11:02:32; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;41373
13; 5202.1; 28-JAN-2010 11:07:24; Dark ; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;41373
14; 5290.0; 28-JAN-2010 11:08:52; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;41373
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23; 6727.1; 28-JAN-2010 11:32:49; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;41373
24; 6842.0; 28-JAN-2010 11:34:44; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;41373
25; 6948.6; 28-JAN-2010 11:36:31; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41373
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27; 7228.7; 28-JAN-2010 11:41:11; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;41373
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7; 3904.7; 28-JAN-2010 12:26:23; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;41374
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22; 6606.6; 28-JAN-2010 13:11:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41374
23; 6727.7; 28-JAN-2010 13:13:26; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41374
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18; 815.5; 30-JAN-2010 07:10:27; Dark ; 46.5; 71; Iot Car ; 2.25; 7700;occ; 93; 0;41400
19; 921.4; 30-JAN-2010 07:12:13; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;41400
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21; 1199.0; 30-JAN-2010 07:16:51; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;41400
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6; 3619.8; 30-JAN-2010 07:57:12; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;41400
7; 3900.4; 30-JAN-2010 08:01:52; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;41400
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13; 5302.4; 30-JAN-2010 08:25:14; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;41400
14; 5556.2; 30-JAN-2010 08:29:28; Dark ; 48.5; 16; 21Alp Sco ; 1.02; 3000;occ; 97; 0;41400
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16; 6126.1; 30-JAN-2010 08:38:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41400
17; 6217.9; 30-JAN-2010 08:40:30; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;41400
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19; 6493.4; 30-JAN-2010 08:45:05; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;41400
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21; 6736.6; 30-JAN-2010 08:49:08; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;41400
22; 6851.8; 30-JAN-2010 08:51:04; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;41400
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4; 2459.1; 30-JAN-2010 09:18:27; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;41401
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6; 3619.3; 30-JAN-2010 09:37:47; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41401
7; 3900.3; 30-JAN-2010 09:42:28; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;41401
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9; 4301.3; 30-JAN-2010 09:49:09; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41401
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12; 4918.4; 30-JAN-2010 09:59:26; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;41401
13; 5302.8; 30-JAN-2010 10:05:51; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;41401
14; 5556.7; 30-JAN-2010 10:10:04; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;41401
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18; 6329.0; 30-JAN-2010 10:22:57; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;41401
19; 6493.9; 30-JAN-2010 10:25:42; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;41401
20; 6609.0; 30-JAN-2010 10:27:37; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41401
21; 6737.1; 30-JAN-2010 10:29:45; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;41401
22; 6852.1; 30-JAN-2010 10:31:40; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;41401

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25; 7235.3; 30-JAN-2010 10:38:03; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;41401
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 5; 3619.3; 30-JAN-2010 11:18:23; Bright; 45.5; 60; 7Bet UMi ; 2.08; 3950;occ; 91; 0;41402
 6; 3900.4; 30-JAN-2010 11:23:04; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;41402
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 9; 4484.1; 30-JAN-2010 11:32:48; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;41402
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11; 4918.8; 30-JAN-2010 11:40:02; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;41402
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13; 5557.2; 30-JAN-2010 11:50:41; Dark ; 45.5; 16; 21Alp Sco ; 1.02; 3000;occ; 109; 0;41402
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23; 6852.2; 30-JAN-2010 12:12:16; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;41402
24; 6957.8; 30-JAN-2010 12:14:01; Dark ; 45.5; 46; Del Vel ; 1.95; 10600;occ; 91; 0;41402
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26; 7235.8; 30-JAN-2010 12:18:39; Dark ; 39.5; 70; Zet Pup ; 2.25; 39000;occ; 79; 0;41402
27; 7444.2; 30-JAN-2010 12:22:08; Dark ; 39.0; 88; 31Eta CMa ; 2.45; 20000;occ; 78; 0;41402
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23; 6737.8; 30-JAN-2010 13:50:57; Dark ; 41.0; 159; Ups Car ; 2.92; 7200;occ; 82; 0;41403
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22; 6611.7; 30-JAN-2010 15:29:27; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41404
23; 6738.2; 30-JAN-2010 15:31:34; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;41404
24; 6852.9; 30-JAN-2010 15:33:28; Dark ; 36.5; 71; Iot Car ; 2.25; 7700;occ; 73; 0;41404
25; 6958.5; 30-JAN-2010 15:35:14; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41404
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