

GOMOS Daily Report 12-JAN-2011

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	16JAN2011 05:24:13
Data source version	GOMOS/5.01
Start time of products	12JAN2011 00:03:18
Stop time of products	12JAN2011 23:58:36
Store outputs in DB	Yes
Nb of level 1b prods	140
Nb of prods with errors	2

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

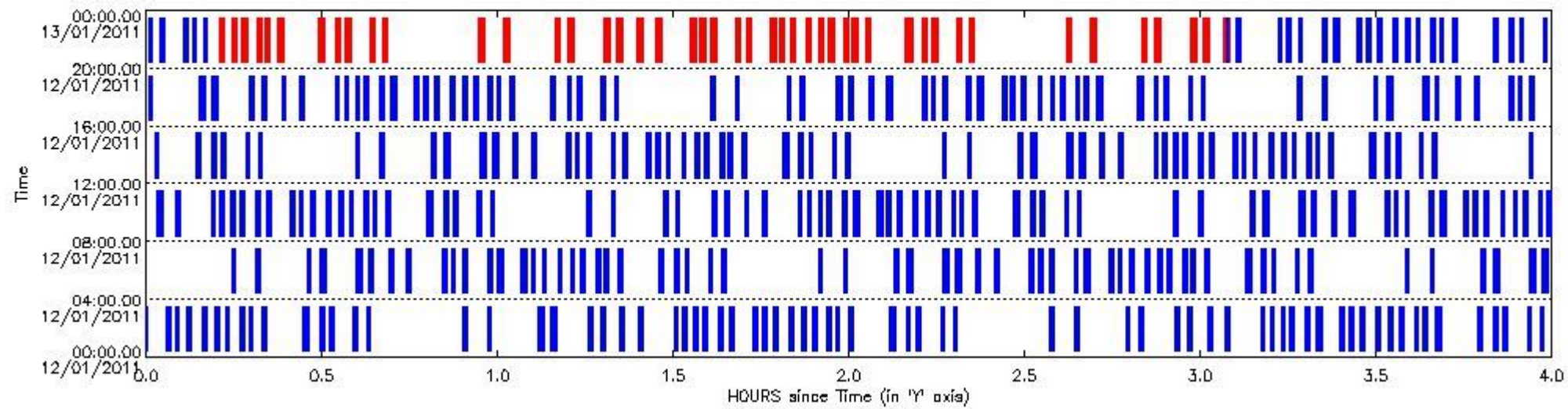
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
12-JAN-2011 20:12:23	Gam2Vel	34	46379
12-JAN-2011 20:14:31	ZetPup	70	46379
12-JAN-2011 20:16:15	PiPup	117	46379
12-JAN-2011 20:18:50	21EpsCMa	23	46379
12-JAN-2011 20:20:15	24Omi2CMa	179	46379
12-JAN-2011 20:22:30	9AlpCMa	1	46379
12-JAN-2011 20:29:27	10AlpCMi	8	46379
12-JAN-2011 20:32:16	24GamGem	44	46379
12-JAN-2011 20:33:58	13MuGem	151	46379
12-JAN-2011 20:38:05	37TheAur	107	46379
12-JAN-2011 20:40:16	34BetAur	42	46379
12-JAN-2011 20:56:48	7BetUMi	60	46379
12-JAN-2011 21:01:01	14EtaDra	119	46379
12-JAN-2011 21:09:45	40ZetHer	133	46379
12-JAN-2011 21:11:55	5AlpCrB	67	46379

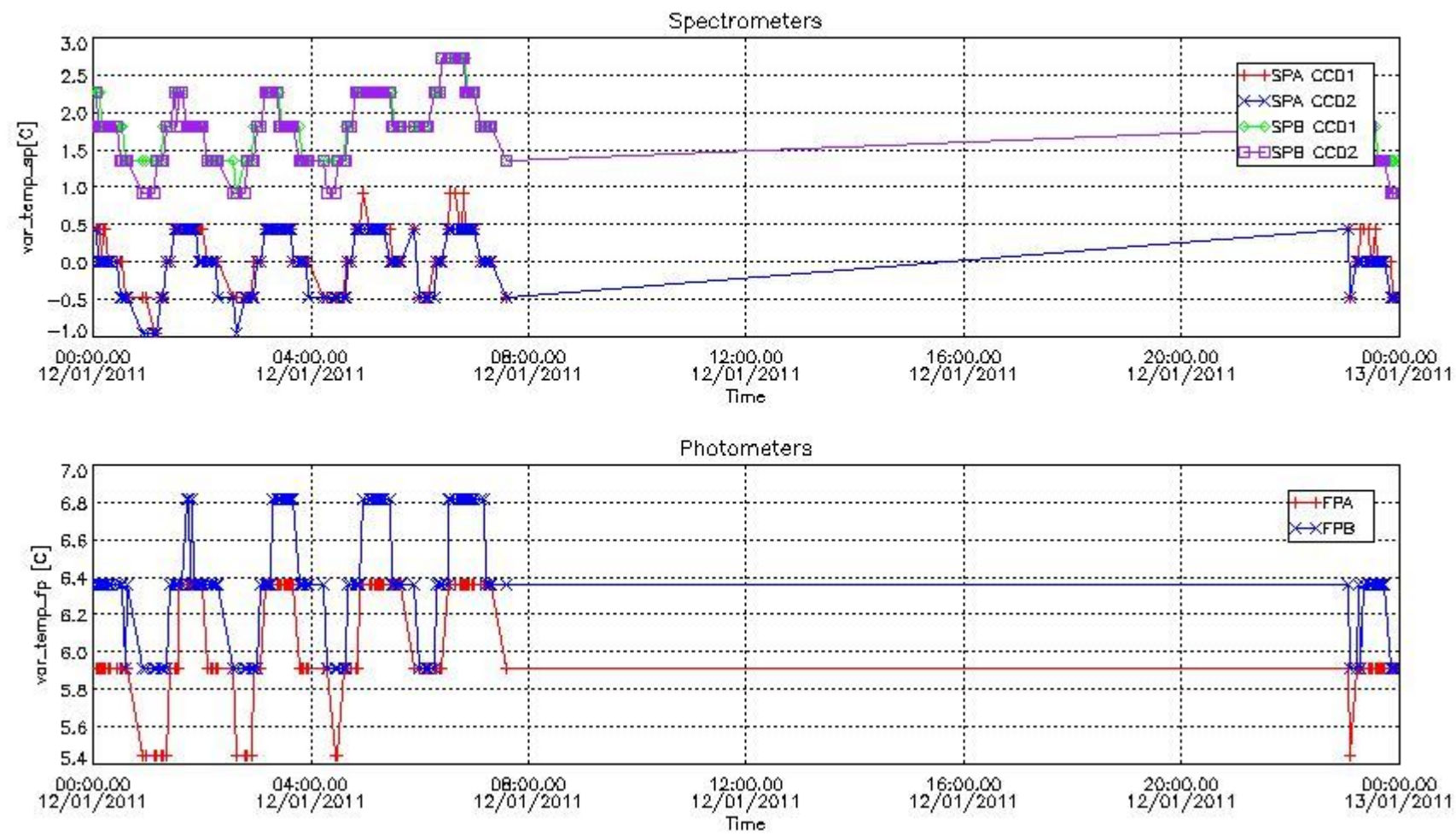
12-JAN-2011 21:18:08	24AlpSer	102	46379
12-JAN-2011 21:20:18	1DelOph	120	46379
12-JAN-2011 21:23:46	27BetLib	104	46379
12-JAN-2011 21:26:53	9Alp2Lib	122	46379
12-JAN-2011 21:32:57	BetLup	109	46379
12-JAN-2011 21:34:27	AlpLup	78	46379
12-JAN-2011 21:36:23	ZetCen	95	46380
12-JAN-2011 21:40:33	BetCru	20	46380
12-JAN-2011 21:42:23	DSA1053	0	46380
12-JAN-2011 21:46:27	MuVel	113	46380
12-JAN-2011 21:48:01	lotCar	71	46380
12-JAN-2011 21:49:53	DelVel	46	46380
12-JAN-2011 21:52:37	Gam2Vel	34	46380
12-JAN-2011 21:54:46	ZetPup	70	46380
12-JAN-2011 21:56:29	PiPup	117	46380
12-JAN-2011 21:59:04	21EpsCMa	23	46380
12-JAN-2011 22:00:30	24Omi2CMa	179	46380
12-JAN-2011 22:02:44	9AlpCMa	1	46380
12-JAN-2011 22:09:40	10AlpCMi	8	46380
12-JAN-2011 22:12:30	24GamGem	44	46380
12-JAN-2011 22:14:12	13MuGem	151	46380
12-JAN-2011 22:18:19	37TheAur	107	46380
12-JAN-2011 22:20:30	34BetAur	42	46380
12-JAN-2011 22:37:02	7BetUMi	60	46380
12-JAN-2011 22:41:15	14EtaDra	119	46380
12-JAN-2011 22:49:59	40ZetHer	133	46380
12-JAN-2011 22:52:09	5AlpCrB	67	46380
12-JAN-2011 22:58:22	24AlpSer	102	46380
12-JAN-2011 23:00:32	1DelOph	120	46380
12-JAN-2011 23:04:00	27BetLib	104	46380

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_1PNPDE20110112_000318_000000533098_00232_46367_3393.N1	12-JAN-2011 00:03:18	Dark	53.000	113	Mu Vel	2.6920	5000.0	106	46367	No
2	GOM_TRA_1PNPDE20110112_000456_000000423098_00232_46367_3394.N1	12-JAN-2011 00:04:56	Dark	42.000	71	lot Car	2.2460	7700.0	84	46367	No
3	GOM_TRA_1PNPDE20110112_000649_000000453098_00232_46367_3395.N1	12-JAN-2011 00:06:49	Dark	44.500	46	Del Vel	1.9540	10600.	89	46367	No
4	GOM_TRA_1PNPDE20110112_000933_000000453098_00232_46367_3396.N1	12-JAN-2011 00:09:33	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	46367	No
5	GOM_TRA_1PNPDE20110112_001142_000000413098_00232_46367_3397.N1	12-JAN-2011 00:11:42	Dark	41.000	70	Zet Pup	2.2460	39000.	82	46367	No
6	GOM_TRA_1PNPDE20110112_001327_000000463098_00232_46367_3398.N1	12-JAN-2011 00:13:27	Straylight	46.000	117	Pi Pup	2.7060	3800.0	92	46367	No
7	GOM_TRA_1PNPDE20110112_001602_000000433098_00232_46367_3399.N1	12-JAN-2011 00:16:02	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	46367	No
8	GOM_TRA_1PNPDE20110112_001729_000000413098_00232_46367_3400.N1	12-JAN-2011 00:17:29	Straylight	41.000	179	24Omi2CMa	3.0320	24000.	82	46367	No
9	GOM_TRA_1PNPDE20110112_001944_000000513098_00232_46367_3401.N1	12-JAN-2011 00:19:44	Straylight	51.000	1	9Alp CMa	-1.4400	11000.	102	46367	No
10	GOM_TRA_1PNPDE20110112_002645_000000613098_00232_46367_3402.N1	12-JAN-2011 00:26:45	Twilight_stray	61.000	8	10Alp CMi	0.40000	6500.0	122	46367	No
11	GOM_TRA_1PNPDE20110112_002933_000000493098_00232_46367_3403.N1	12-JAN-2011 00:29:33	Bright	48.500	44	24Gam Gem	1.9280	11000.	97	46367	No
12	GOM_TRA_1PNPDE20110112_003115_000000443098_00232_46367_3404.N1	12-JAN-2011 00:31:15	Bright	43.500	151	13Mu Gem	2.8900	3000.0	87	46367	No
13	GOM_TRA_1PNPDE20110112_003521_000000373098_00232_46367_3405.N1	12-JAN-2011 00:35:21	Bright	36.500	107	37The Aur	2.6490	11000.	73	46367	No
14	GOM_TRA_1PNPDE20110112_003733_000000353098_00232_46367_3406.N1	12-JAN-2011 00:37:33	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	46367	No
15	GOM_TRA_1PNPDE20110112_005405_000000393098_00232_46367_3407.N1	12-JAN-2011 00:54:05	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	46367	No
16	GOM_TRA_1PNPDE20110112_005817_000000383098_00232_46367_3408.N1	12-JAN-2011 00:58:17	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	46367	No
17	GOM_TRA_1PNPDE20110112_010658_000000533098_00232_46367_3409.N1	12-JAN-2011 01:06:58	Bright	52.500	133	40Zet Her	2.8070	6000.0	105	46367	No
18	GOM_TRA_1PNPDE20110112_010908_000000613098_00232_46367_3410.N1	12-JAN-2011 01:09:08	Bright	61.000	67	5Alp CrB	2.2210	11000.	122	46367	No
19	GOM_TRA_1PNPDE20110112_011518_000000523098_00232_46367_3411.N1	12-JAN-2011 01:15:18	Bright	51.500	102	24Alp Ser	2.6000	4250.0	103	46367	No
20	GOM_TRA_1PNPDE20110112_011728_000000553098_00232_46367_3412.N1	12-JAN-2011 01:17:28	Bright	55.000	120	1Del Oph	2.7340	3200.0	110	46367	No
21	GOM_TRA_1PNPDE20110112_012053_000000473098_00232_46367_3421.N1	12-JAN-2011 01:20:53	Twilight_stray	46.500	104	27Bet Lib	2.6140	13100.	93	46367	No
22	GOM_TRA_1PNPDE20110112_012358_000000493098_00232_46367_3422.N1	12-JAN-2011 01:23:58	Straylight	49.000	122	9Alp2Lib	2.7470	9700.0	98	46367	No
23	GOM_TRA_1PNPDE20110112_013005_000000413098_00232_46367_3423.N1	12-JAN-2011 01:30:05	Dark	40.500	109	Bet Lup	2.6770	26000.	81	46367	No
24	GOM_TRA_1PNPDE20110112_013135_000000433098_00232_46367_3424.N1	12-JAN-2011 01:31:35	Dark	42.500	78	Alp Lup	2.3040	28000.	85	46367	No

84	GOM_TRA_1PNPDE20110112_051017_000000403098_00235_46370_3462.N1	12-JAN-2011 05:10:17	Dark	39.500	34	Gam2Vel	1.7930	23000.	79	46370	No
85	GOM_TRA_1PNPDE20110112_051226_000000443098_00235_46370_3463.N1	12-JAN-2011 05:12:26	Dark	44.000	70	Zet Pup	2.2460	39000.	88	46370	No
86	GOM_TRA_1PNPDE20110112_051410_000000463098_00235_46370_3464.N1	12-JAN-2011 05:14:10	Straylight	46.000	117	Pi Pup	2.7060	3800.0	92	46370	No
87	GOM_TRA_1PNPDE20110112_051645_000000453098_00235_46370_3465.N1	12-JAN-2011 05:16:45	Straylight	44.500	23	21Eps CMa	1.5020	26000.	89	46370	No
88	GOM_TRA_1PNPDE20110112_051811_000000413098_00235_46370_3466.N1	12-JAN-2011 05:18:11	Straylight	41.000	179	24Omi2CMa	3.0320	24000.	82	46370	No
89	GOM_TRA_1PNPDE20110112_052027_000000543098_00235_46370_3467.N1	12-JAN-2011 05:20:27	Straylight	53.500	1	9Alp CMa	-1.4400	11000.	107	46370	No
90	GOM_TRA_1PNPDE20110112_052726_000000553098_00235_46370_3468.N1	12-JAN-2011 05:27:26	Tw_i_and_stray	54.500	8	10Alp CMi	0.40000	6500.0	109	46370	No
91	GOM_TRA_1PNPDE20110112_053015_000000463098_00235_46370_3469.N1	12-JAN-2011 05:30:15	Bright	45.500	44	24Gam Gem	1.9280	11000.	91	46370	No
92	GOM_TRA_1PNPDE20110112_053157_000000423098_00235_46370_3470.N1	12-JAN-2011 05:31:57	Bright	41.500	151	13Mu Gem	2.8900	3000.0	83	46370	No
93	GOM_TRA_1PNPDE20110112_053603_000000373098_00235_46370_3471.N1	12-JAN-2011 05:36:03	Bright	37.000	107	37The Aur	2.6490	11000.	74	46370	No
94	GOM_TRA_1PNPDE20110112_053814_000000393098_00235_46370_3472.N1	12-JAN-2011 05:38:14	Bright	38.500	42	34Bet Aur	1.9000	10200.	77	46370	No
95	GOM_TRA_1PNPDE20110112_055447_000000393098_00235_46370_3471.N1	12-JAN-2011 05:54:47	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	46370	Yes
96	GOM_TRA_1PNPDE20110112_055859_000000393098_00235_46370_3472.N1	12-JAN-2011 05:58:59	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	46370	No
97	GOM_TRA_1PNPDE20110112_060741_000000543098_00235_46370_3473.N1	12-JAN-2011 06:07:41	Bright	54.000	133	40Zet Her	2.8070	6000.0	108	46370	No
98	GOM_TRA_1PNPDE20110112_060951_000000613098_00235_46370_3474.N1	12-JAN-2011 06:09:51	Bright	61.000	67	5Alp CrB	2.2210	11000.	122	46370	No
99	GOM_TRA_1PNPDE20110112_061602_000000603098_00235_46370_3475.N1	12-JAN-2011 06:16:02	Bright	60.000	102	24Alp Ser	2.6000	4250.0	120	46370	No
100	GOM_TRA_1PNPDE20110112_061812_000000553098_00235_46370_3476.N1	12-JAN-2011 06:18:12	Bright	55.000	120	1Del Oph	2.7340	3200.0	110	46370	No
101	GOM_TRA_1PNPDE20110112_062137_000000483098_00235_46370_3477.N1	12-JAN-2011 06:21:37	Tw_i_and_stray	47.500	104	27Bet Lib	2.6140	13100.	95	46370	No
102	GOM_TRA_1PNPDE20110112_062443_000000513098_00235_46370_3478.N1	12-JAN-2011 06:24:43	Straylight	50.500	122	9Alp2Lib	2.7470	9700.0	101	46370	No
103	GOM_TRA_1PNPDE20110112_063049_000000423098_00235_46370_3479.N1	12-JAN-2011 06:30:49	Dark	41.500	109	Bet Lup	2.6770	26000.	83	46370	No
104	GOM_TRA_1PNPDE20110112_063219_000000413098_00235_46370_3480.N1	12-JAN-2011 06:32:19	Dark	40.500	78	Alp Lup	2.3040	28000.	81	46370	No
105	GOM_TRA_1PNPDE20110112_063413_000000443098_00236_46371_3481.N1	12-JAN-2011 06:34:13	Dark	43.500	95	Zet Cen	2.5450	26000.	87	46371	No
106	GOM_TRA_1PNPDE20110112_063825_000000423098_00236_46371_3482.N1	12-JAN-2011 06:38:25	Dark	42.000	20	Bet Cru	1.2530	30000.	84	46371	No
107	GOM_TRA_1PNPDE20110112_064417_000000483098_00236_46371_3483.N1	12-JAN-2011 06:44:17	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	46371	No
108	GOM_TRA_1PNPDE20110112_064554_000000393098_00236_46371_3484.N1	12-JAN-2011 06:45:54	Dark	39.000	71	Iot Car	2.2460	7700.0	78	46371	No
109	GOM_TRA_1PNPDE20110112_064747_000000453098_00236_46371_3485.N1	12-JAN-2011 06:47:47	Dark	45.000	46	Del Vel	1.9540	10600.	90	46371	No
110	GOM_TRA_1PNPDE20110112_065031_000000443098_00236_46371_3486.N1	12-JAN-2011 06:50:31	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	46371	No
111	GOM_TRA_1PNPDE20110112_065240_000000443098_00236_46371_3487.N1	12-JAN-2011 06:52:40	Dark	43.500	70	Zet Pup	2.2460	39000.	87	46371	No
112	GOM_TRA_1PNPDE20110112_065424_000000473098_00236_46371_3488.N1	12-JAN-2011 06:54:24	Straylight	47.000	117	Pi Pup	2.7060	3800.0	94	46371	No
113	GOM_TRA_1PNPDE20110112_065700_000000443098_00236_46371_3489.N1	12-JAN-2011 06:57:00	Straylight	43.500	23	21Eps CMa	1.5020	26000.	87	46371	No
114	GOM_TRA_1PNPDE20110112_065826_000000393098_00236_46371_3490.N1	12-JAN-2011 06:58:26	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	46371	No
115	GOM_TRA_1PNPDE20110112_070041_000000543098_00236_46371_3491.N1	12-JAN-2011 07:00:41	Straylight	54.000	1	9Alp CMa	-1.4400	11000.	108	46371	No
116	GOM_TRA_1PNPDE20110112_070740_000000583098_00236_46371_3492.N1	12-JAN-2011 07:07:40	Tw_i_and_stray	58.000	8	10Alp CMi	0.40000	6500.0	116	46371	No
117	GOM_TRA_1PNPDE20110112_071029_000000473098_00236_46371_3493.N1	12-JAN-2011 07:10:29	Bright	46.500	44	24Gam Gem	1.9280	11000.	93	46371	No
118	GOM_TRA_1PNPDE20110112_071211_000000443098_00236_46371_3494.N1	12-JAN-2011 07:12:11	Bright	43.500	151	13Mu Gem	2.8900	3000.0	87	46371	No
119	GOM_TRA_1PNPDE20110112_071617_000000383098_00236_46371_3495.N1	12-JAN-2011 07:16:17	Bright	37.500	107	37The Aur	2.6490	11000.	75	46371	No
120	GOM_TRA_1PNPDE20110112_071828_000000383098_00236_46371_3496.N1	12-JAN-2011 07:18:28	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	46371	No
121	GOM_TRA_1PNPDE20110112_073501_000000363098_00236_46371_3497.N1	12-JAN-2011 07:35:01	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	46371	No
122	GOM_TRA_1PNPDE20110112_230404_000000483098_00245_46380_3571.N1	12-JAN-2011 23:04:04	Tw_i_and_stray	47.500	104	27Bet Lib	2.6140	13100.	95	46380	Yes
123	GOM_TRA_1PNPDE20110112_230608_000000443098_00245_46380_3572.N1	12-JAN-2011 23:06:08	Tw_i_and_stray	44.000	80	7Del Sco	2.3160	30000.	88	46380	No
124	GOM_TRA_1PNPDE20110112_231315_000000443098_00245_46380_3573.N1	12-JAN-2011 23:13:15	Dark	43.500	109	Bet Lup	2.6770	26000.	87	46380	No
125	GOM_TRA_1PNPDE20110112_231445_000000413098_00245_46380_3574.N1	12-JAN-2011 23:14:45	Dark	40.500	78	Alp Lup	2.3040	28000.	81	46380	No
126	GOM_TRA_1PNPDE20110112_231641_000000443098_00246_46381_3575.N1	12-JAN-2011 23:16:41	Dark	43.500	95	Zet Cen	2.5450	26000.	87	46381	No
127	GOM_TRA_1PNPDE20110112_232051_000000413098_00246_46381_3576.N1	12-JAN-2011 23:20:51	Dark	41.000	20	Bet Cru	1.2530	30000.	82	46381	No
128	GOM_TRA_1PNPDE20110112_232645_000000473098_00246_46381_3577.N1	12-JAN-2011 23:26:45	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	46381	No
129	GOM_TRA_1PNPDE20110112_232819_000000433098_00246_46381_3578.N1	12-JAN-2011 23:28:19	Dark	43.000	71	Iot Car	2.2460	7700.0	86	46381	No
130	GOM_TRA_1PNPDE20110112_233011_000000463098_00246_46381_3579.N1	12-JAN-2011 23:30:11	Dark	45.500	46	Del Vel	1.9540	10600.	91	46381	No
131	GOM_TRA_1PNPDE20110112_233255_000000413098_00246_46381_3580.N1	12-JAN-2011 23:32:55	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	46381	No
132	GOM_TRA_1PNPDE20110112_233504_000000423098_00246_46381_3581.N1	12-JAN-2011 23:35:04	Dark	42.000	70	Zet Pup	2.2460	39000.	84	46381	No
133	GOM_TRA_1PNPDE20110112_233647_000000453098_00246_46381_3582.N1	12-JAN-2011 23:36:47	Straylight	45.000	117	Pi Pup	2.7060	3800.0	90	46381	No
134	GOM_TRA_1PNPDE20110112_233922_000000443098_00246_46381_3583.N1	12-JAN-2011 23:39:22	Straylight	43.500	23	21Eps CMa	1.5020	26000.	87	46381	No
135	GOM_TRA_1PNPDE20110112_234047_000000403098_00246_46381_3584.N1	12-JAN-2011 23:40:47	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	46381	No
136	GOM_TRA_1PNPDE20110112_234302_000000463098_00246_46381_3585.N1	12-JAN-2011 23:43:02	Straylight	45.500	1	9Alp CMa	-1.4400	11000.	91	46381	No
137	GOM_TRA_1PNPDE20110112_234958_000000583098_00246_46381_3586.N1	12-JAN-2011 23:49:58	Tw_i_and_stray	57.500	8	10Alp CMi	0.40000	6500.0	115	46381	No
138	GOM_TRA_1PNPDE20110112_235248_000000423098_00246_46381_3587.N1	12-JAN-2011 23:52:48	Bright	41.500	44	24Gam Gem	1.9280	11000.	83	46381	No
139	GOM_TRA_1PNPDE20110112_235430_000000423098_00246_46381_3588.N1	12-JAN-2011 23:54:30	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	46381	No
140	GOM_TRA_1PNPDE20110112_235836_000000373098_00246_46381_3589.N1	12-JAN-2011 23:58:36	Bright	37.000	107	37The Aur	2.6490	11000.	74	46381	No

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



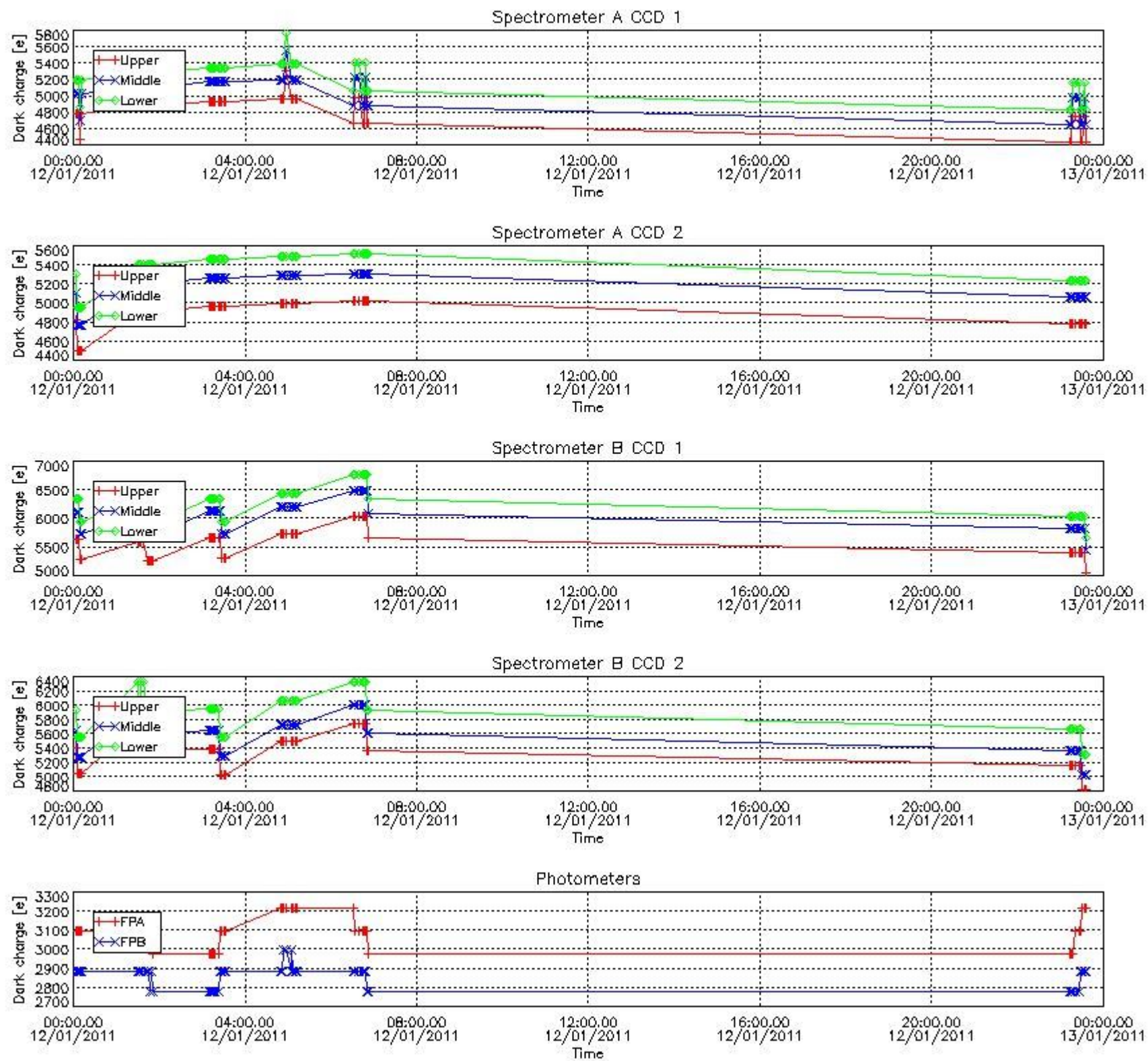
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



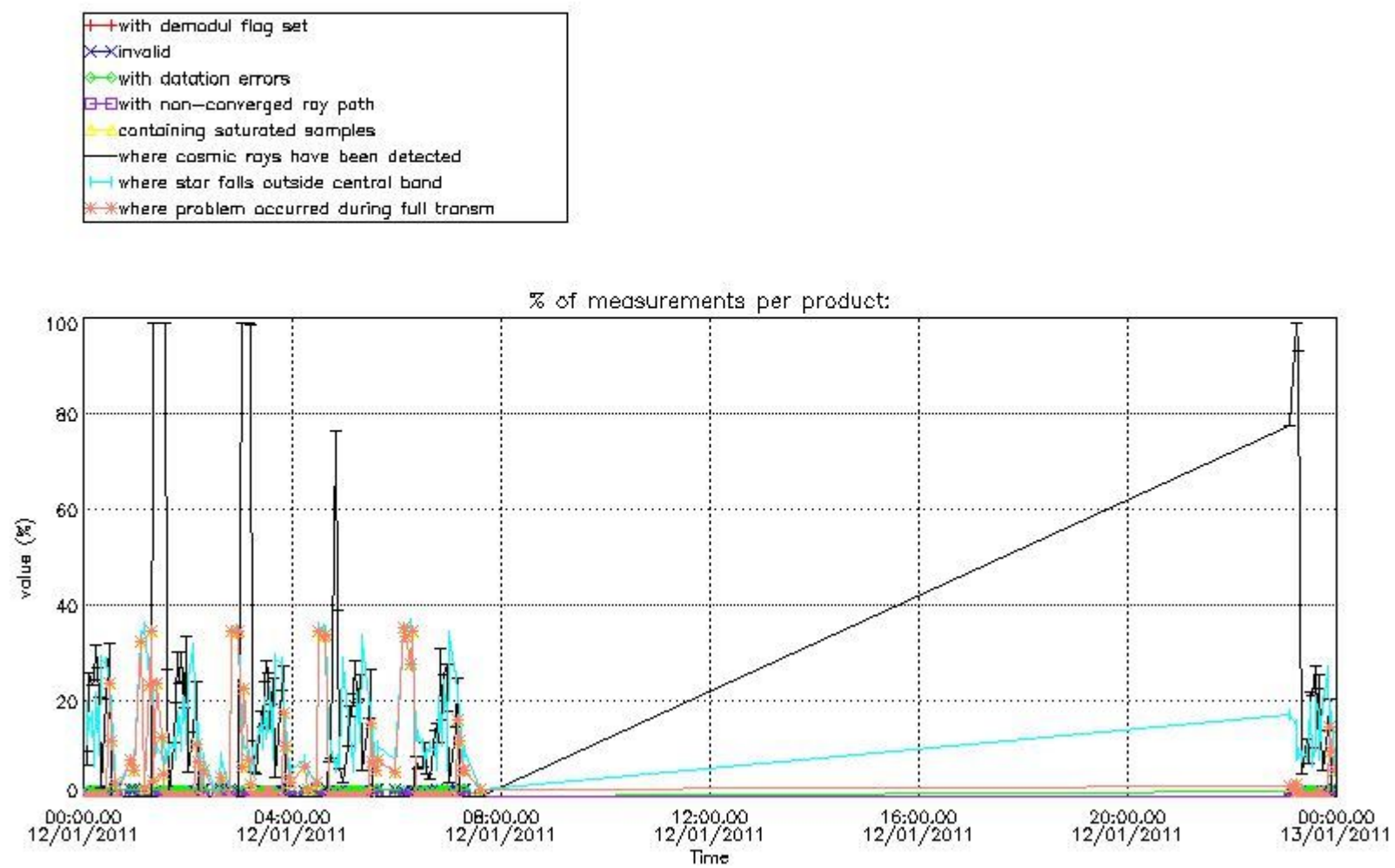
5. Demodulation flag and quality information monitoring

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.

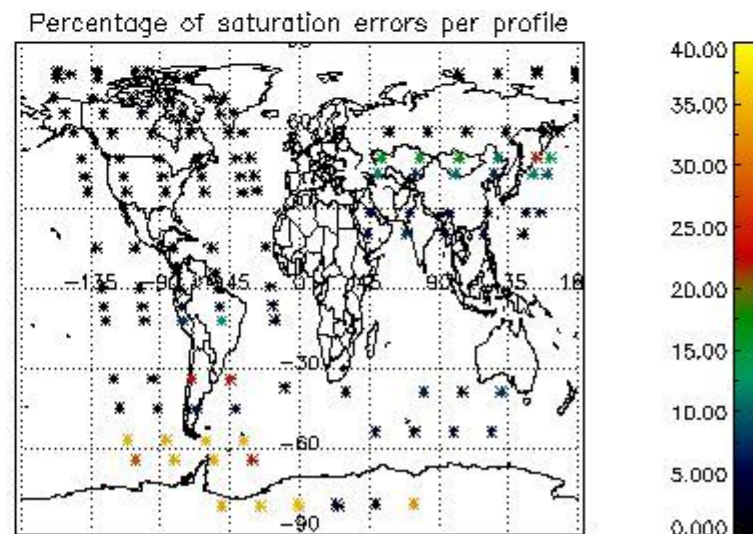
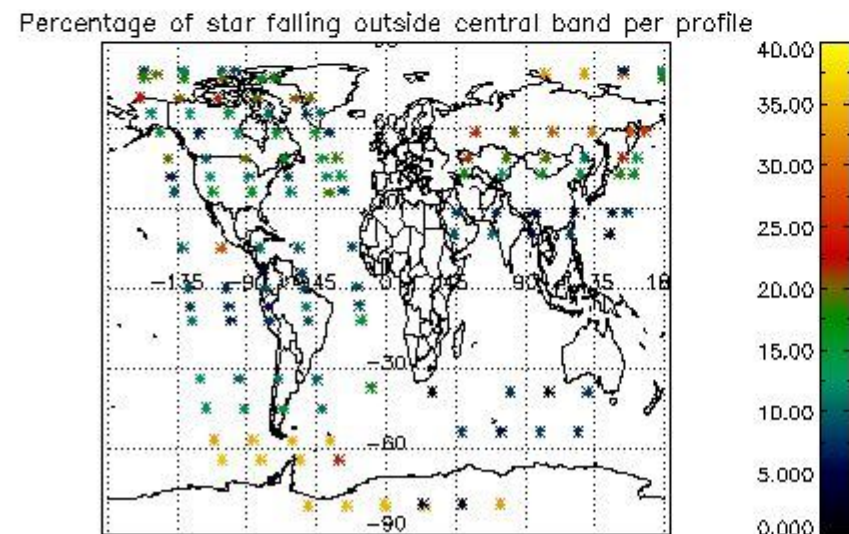
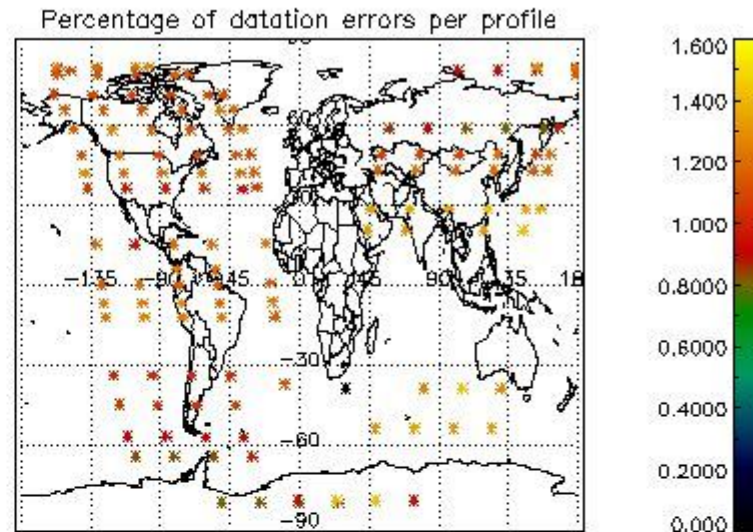
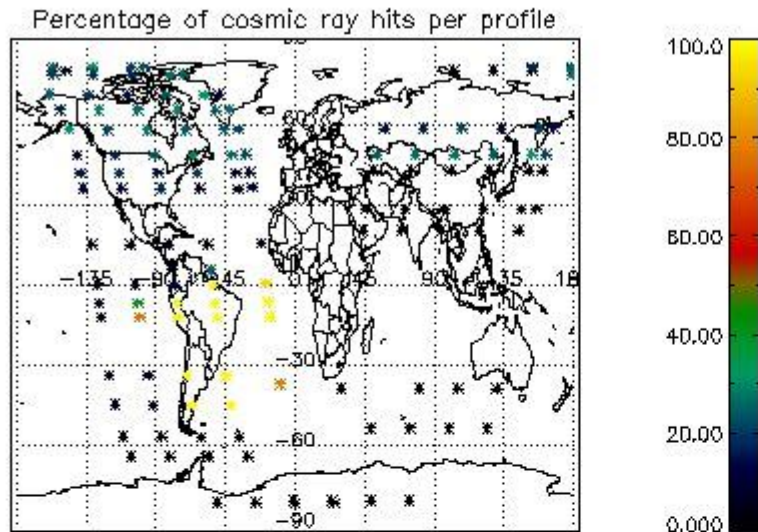
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	63.7681 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



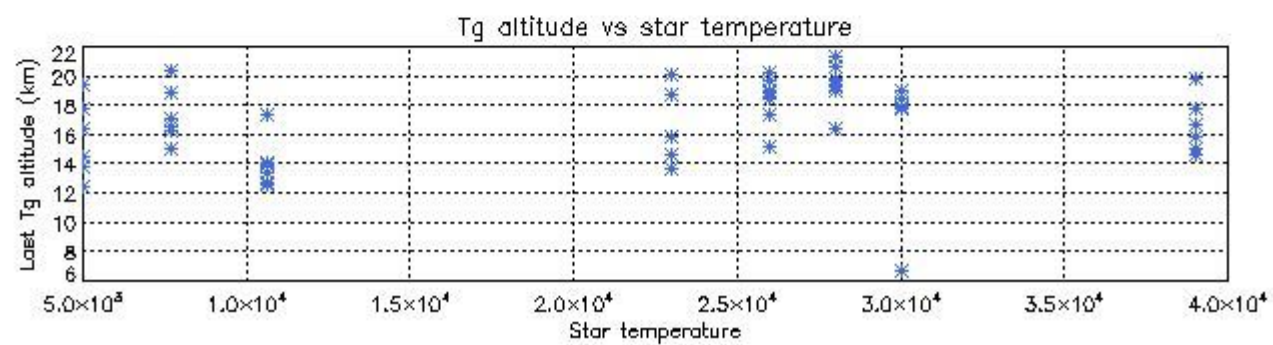
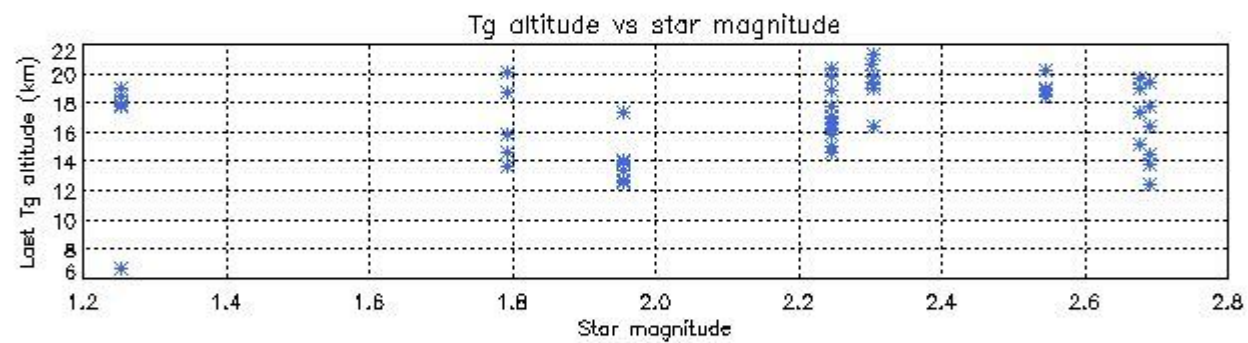
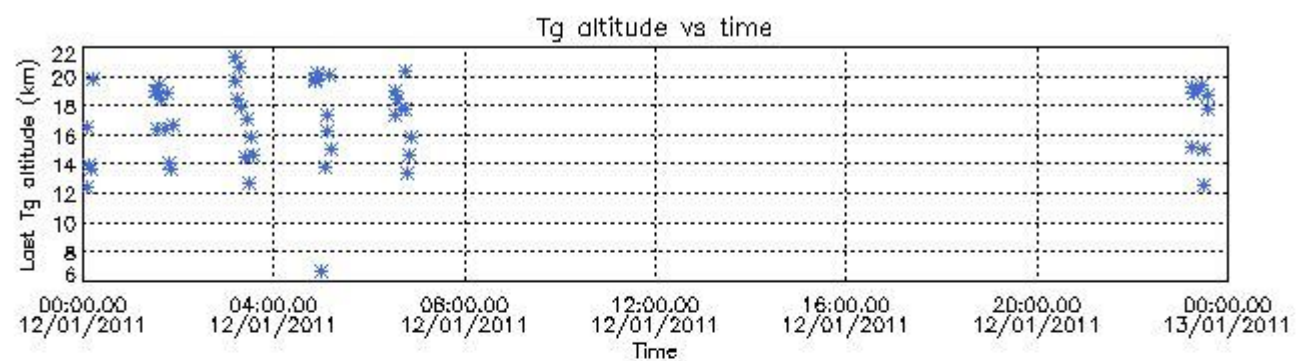
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.925	14.261	NaN
St. deviation:	2.8238	7.7134	NaN
Maximum:	21.324	28.294	NaN
Minimum:	6.6301	3.8079	NaN
Number of data:	52.000	46.000	NaN

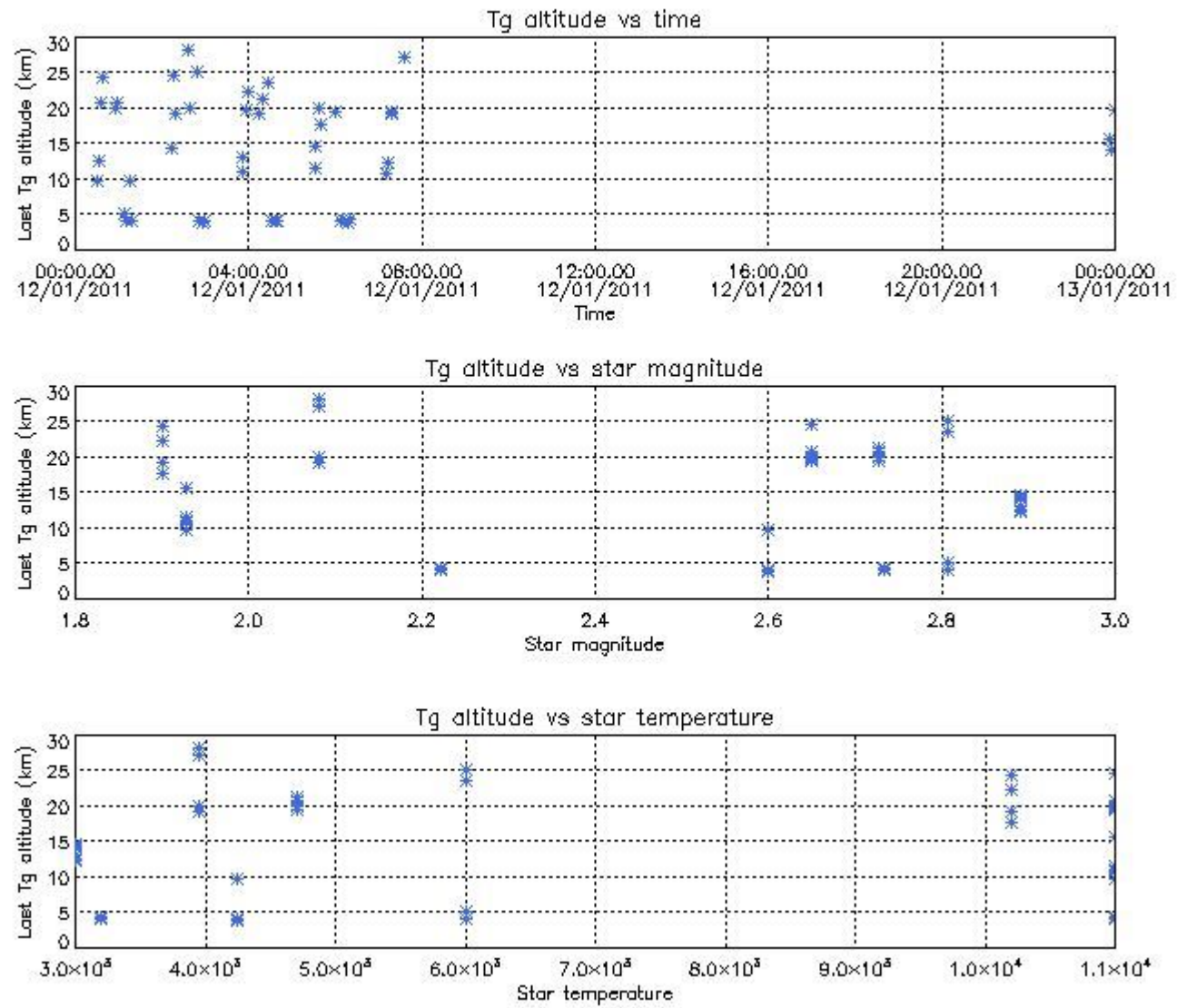
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

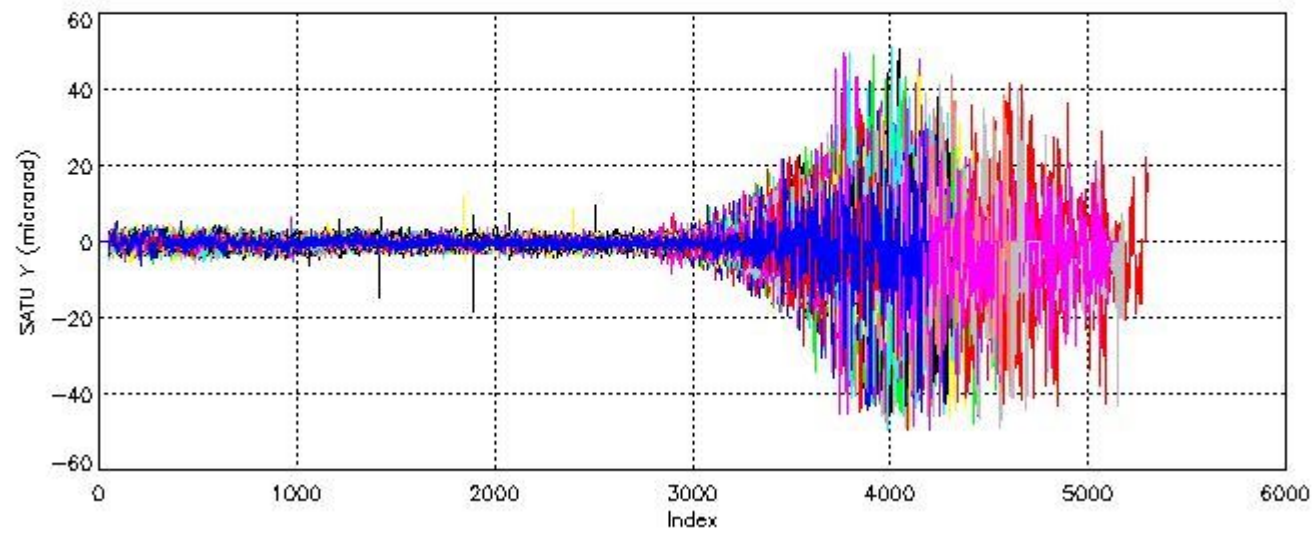
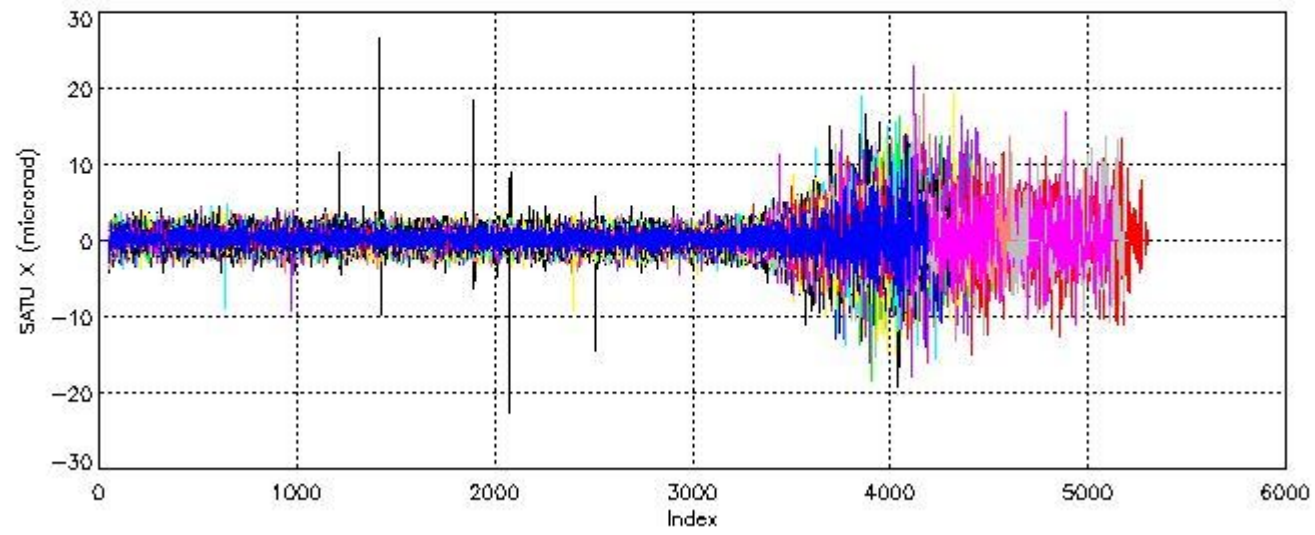


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.16692	-0.34073	0.10841	-0.33217
St. deviation:	0.72042	1.1373	0.67142	0.99755
Maximum:	4.7000	5.5000	5.8000	4.6000
Minimum:	-9.0000	-6.1000	-4.9000	-6.1000

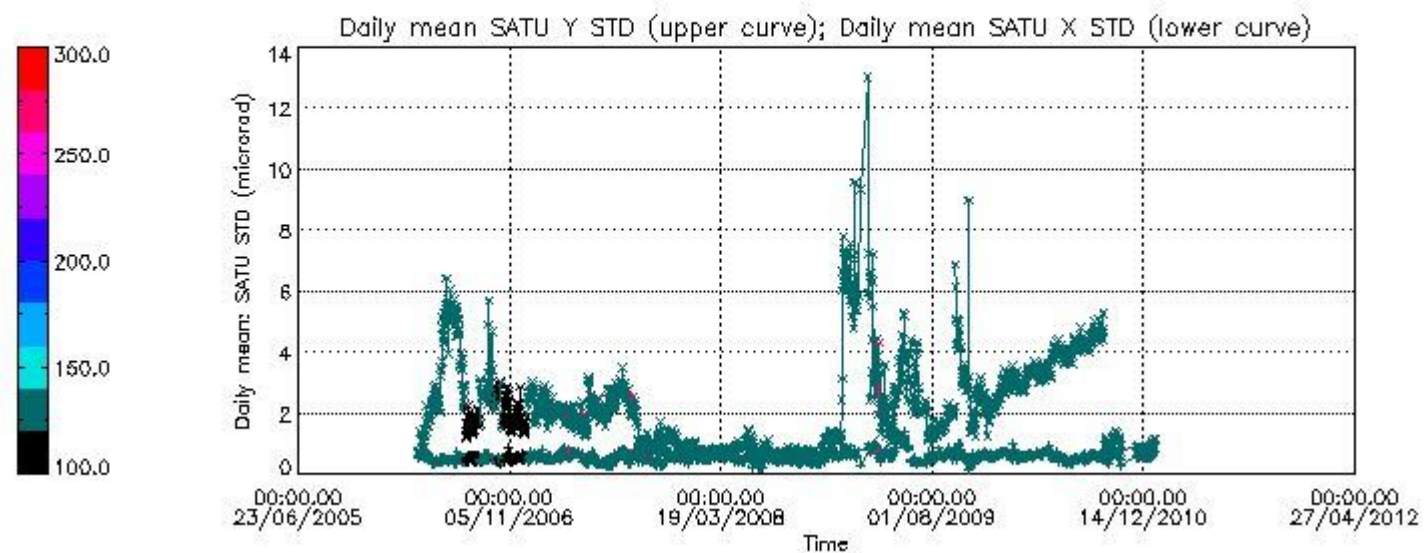
Number of data:	51750.	51750.	41100.	41100.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

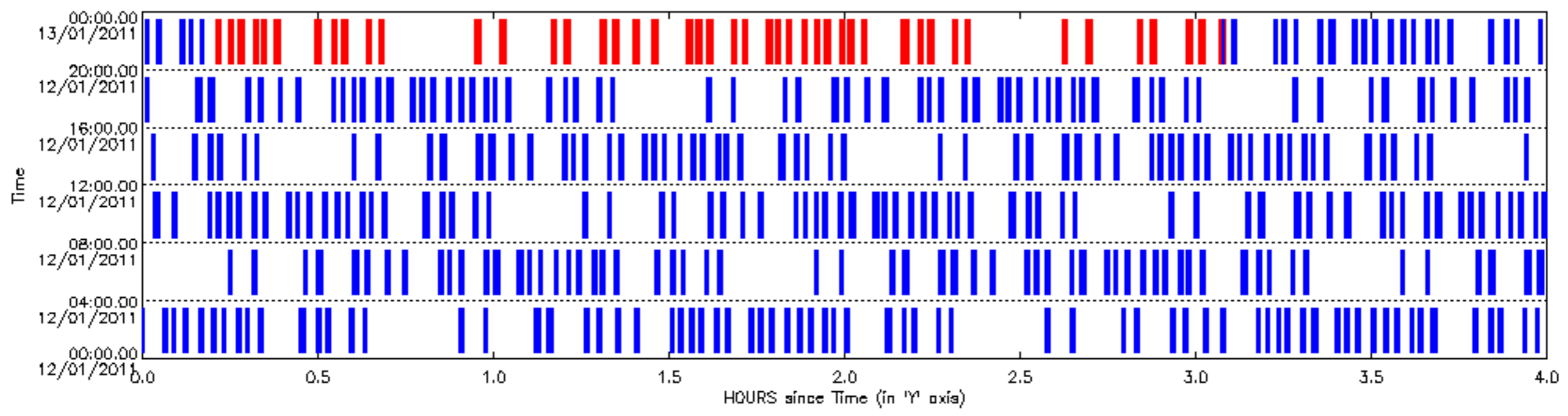
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

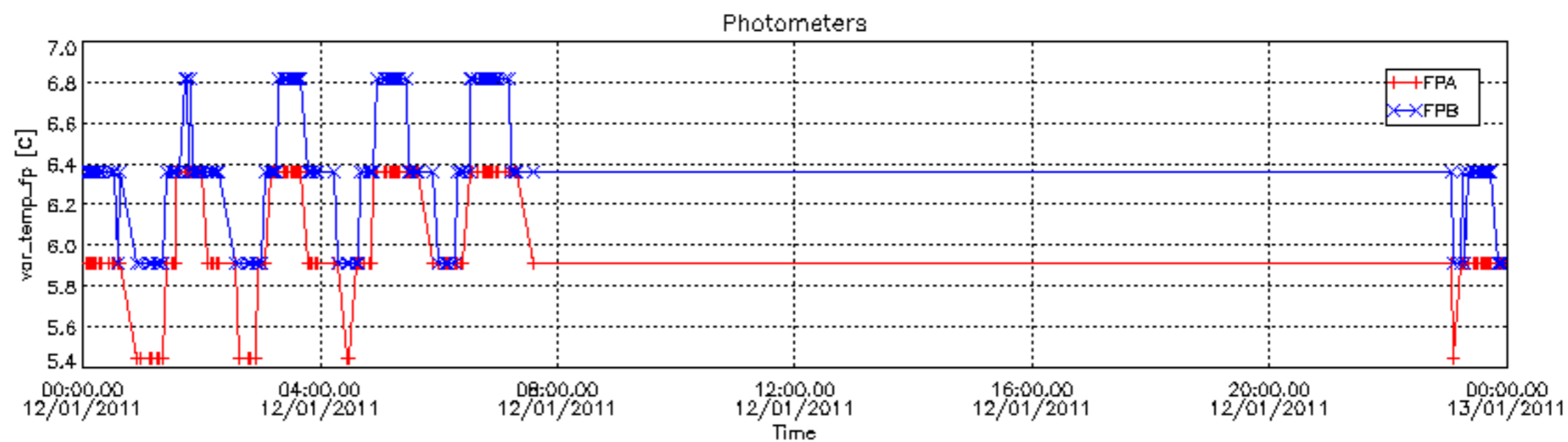
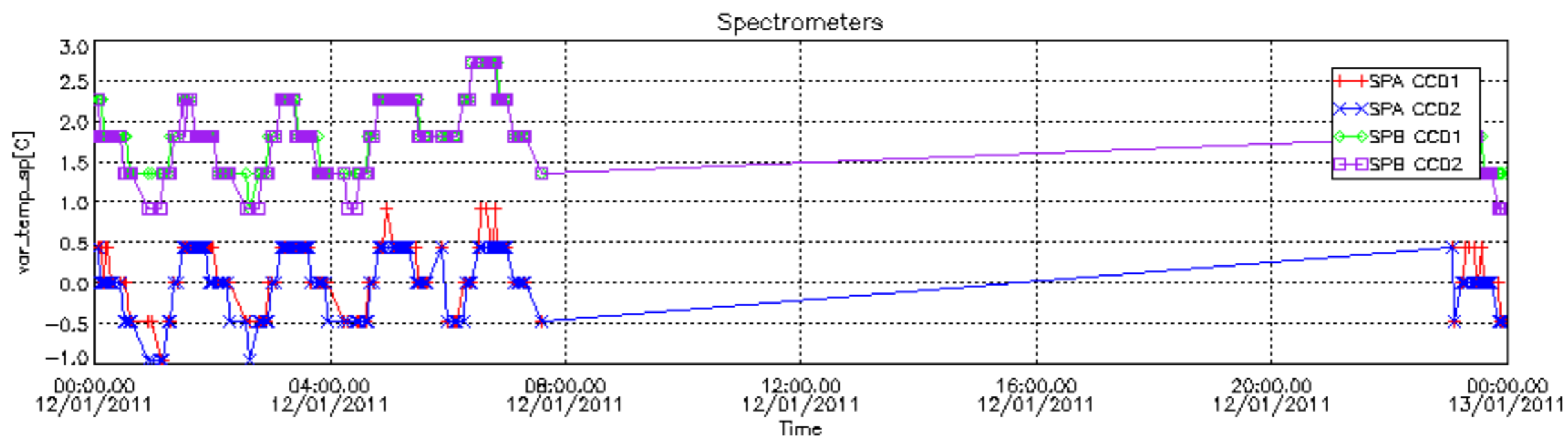


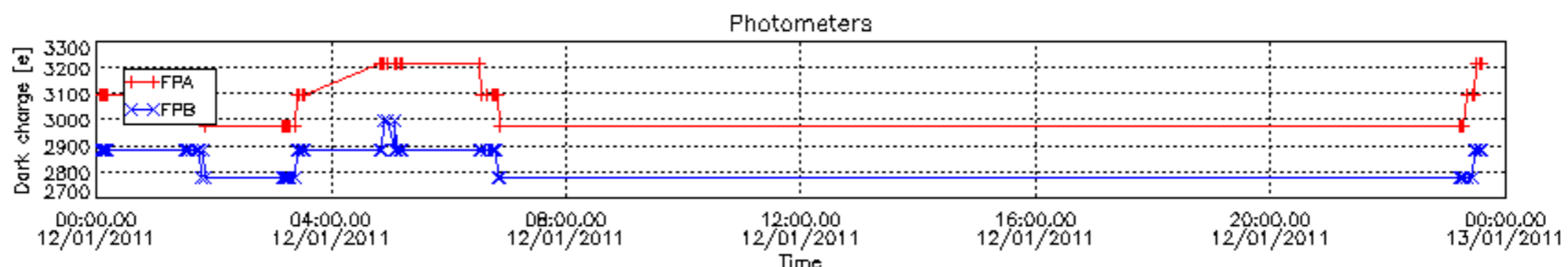
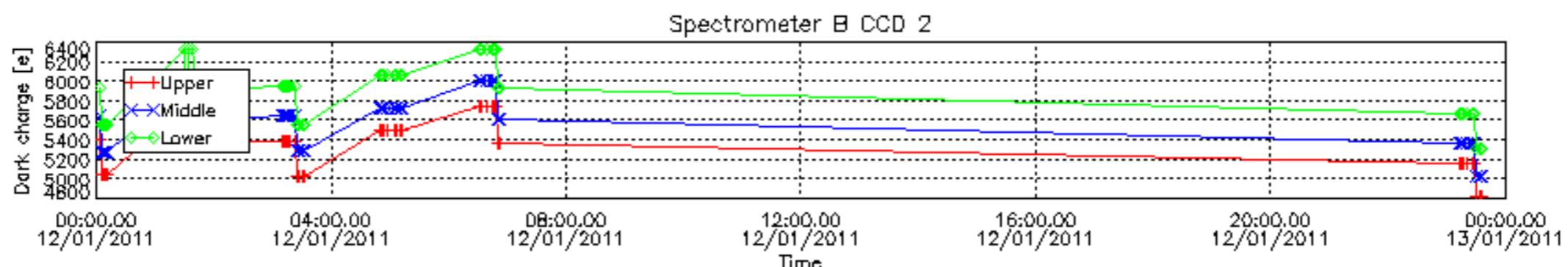
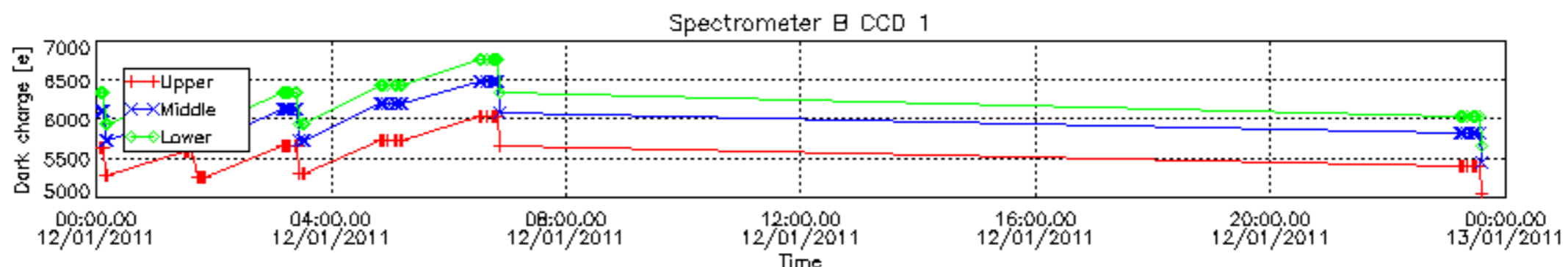
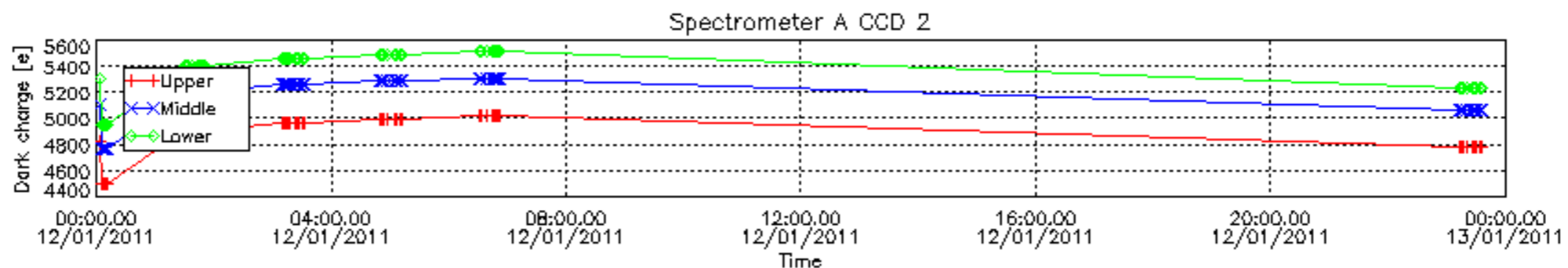
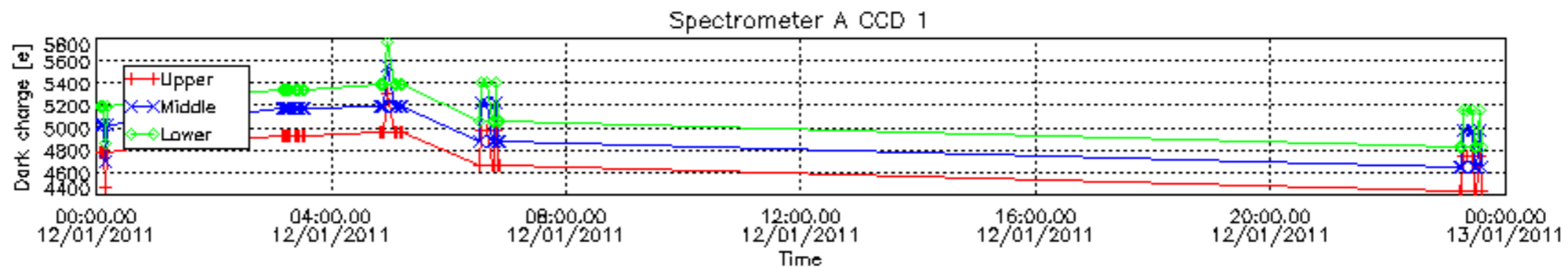
8. Auxiliary Data Files used for the production reported in section 2.4

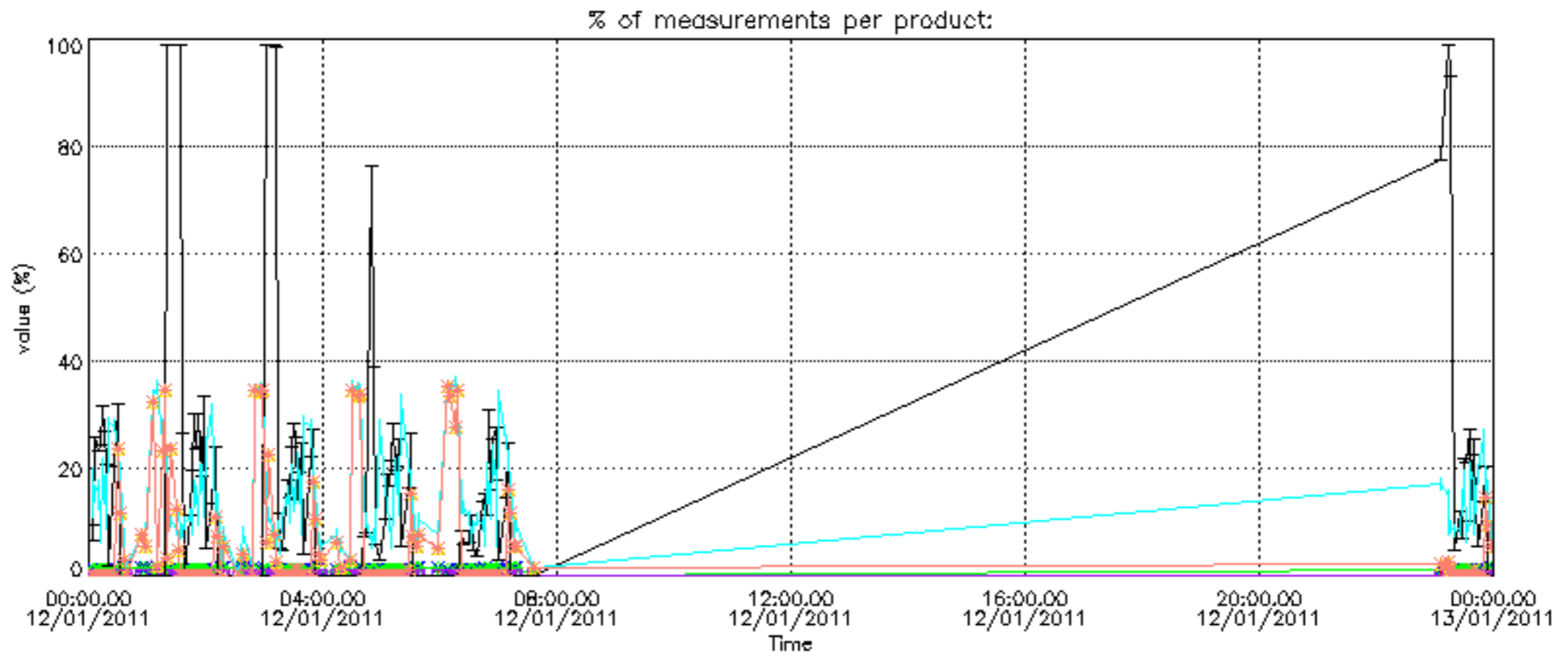
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	12-JAN-2011 00:03:18
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110111_101345_20110110_000000_20500101_000000	1	12-JAN-2011 00:03:18
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	12-JAN-2011 00:03:18
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-JAN-2011 00:03:18
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	12-JAN-2011 00:03:18
ECMWF_FILE	AUX_ECF_AXNECM20110111_054114_20110111_210000_20110112_090000	1	12-JAN-2011 00:03:18
ECMWF_FILE	AUX_ECF_AXNECM20110111_172114_20110112_030000_20110112_150000	69	12-JAN-2011 04:14:33
ECMWF_FILE	AUX_ECA_AXNECM20110112_052113_20110111_210000_20110112_090000	95	12-JAN-2011 05:54:47
ECMWF_FILE	AUX_ECF_AXNECM20110112_052115_20110112_210000_20110113_090000	122	12-JAN-2011 23:04:04
OPTIONAL_ECMWF_FILE	MISSING	1	12-JAN-2011 00:03:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110111_233750_000057383098_00231_46366_2311.N1	1	12-JAN-2011 00:03:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110112_011847_000098823098_00232_46367_2312.N1	21	12-JAN-2011 01:20:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110112_040848_000057383098_00234_46369_2313.N1	69	12-JAN-2011 04:14:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110112_054945_000060573098_00235_46370_2314.N1	95	12-JAN-2011 05:54:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110112_230031_000057383098_00245_46380_2315.N1	122	12-JAN-2011 23:04:04

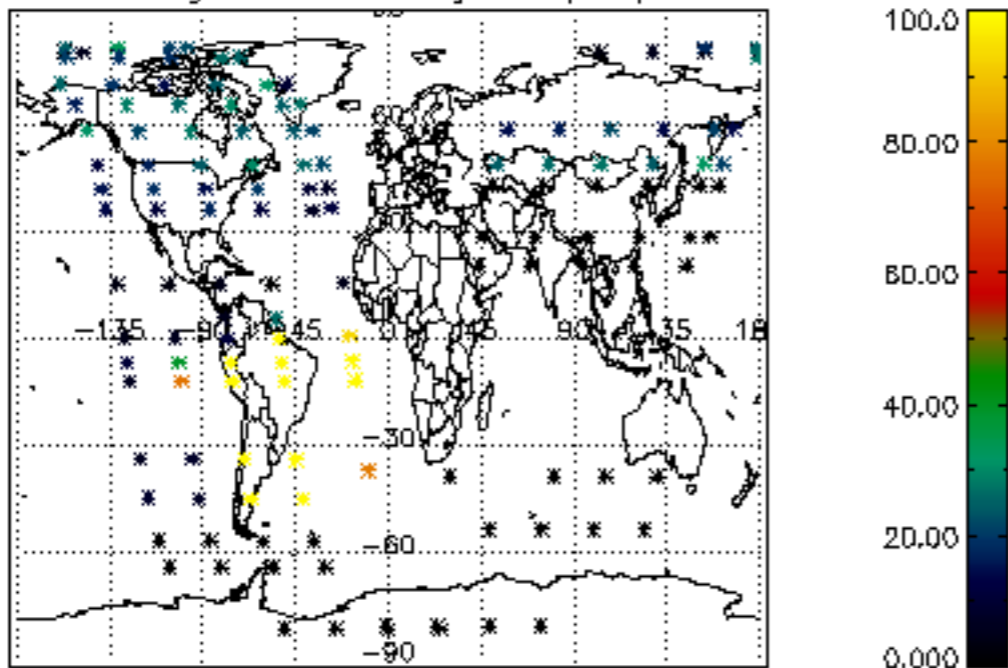




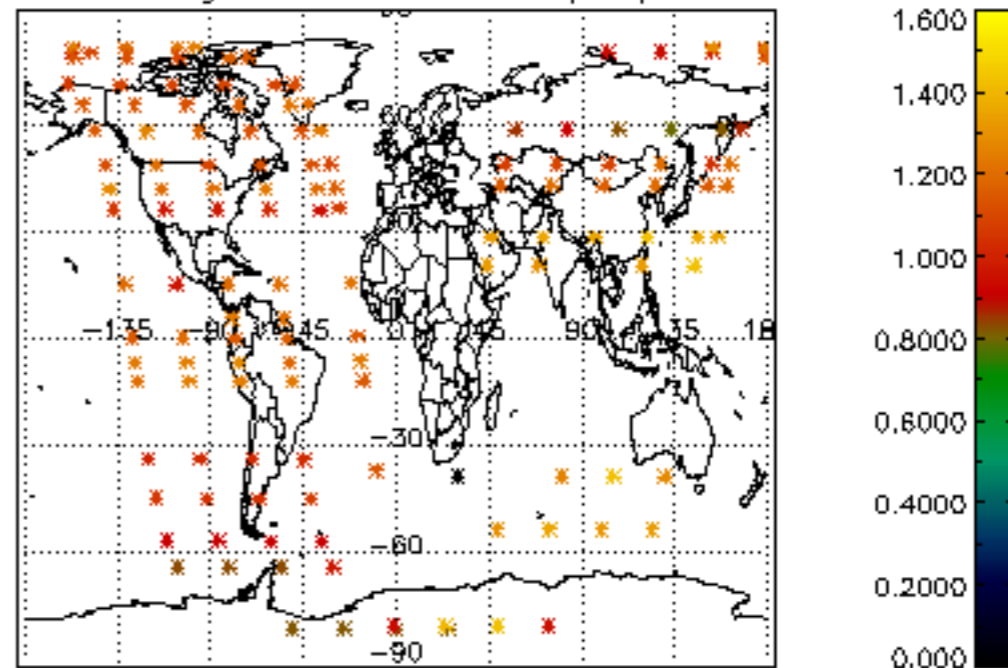




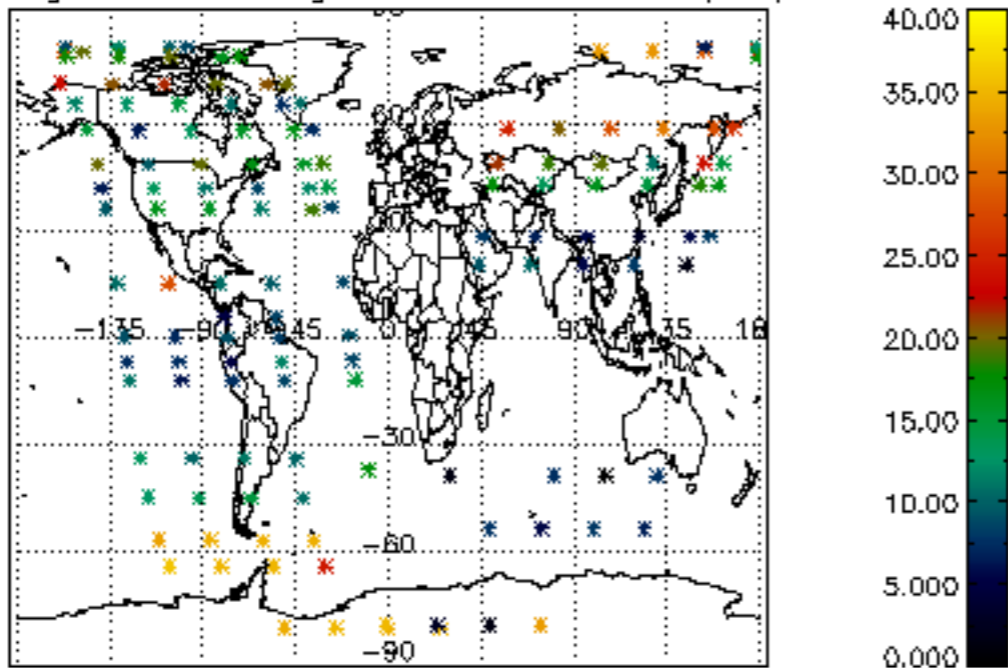
Percentage of cosmic ray hits per profile



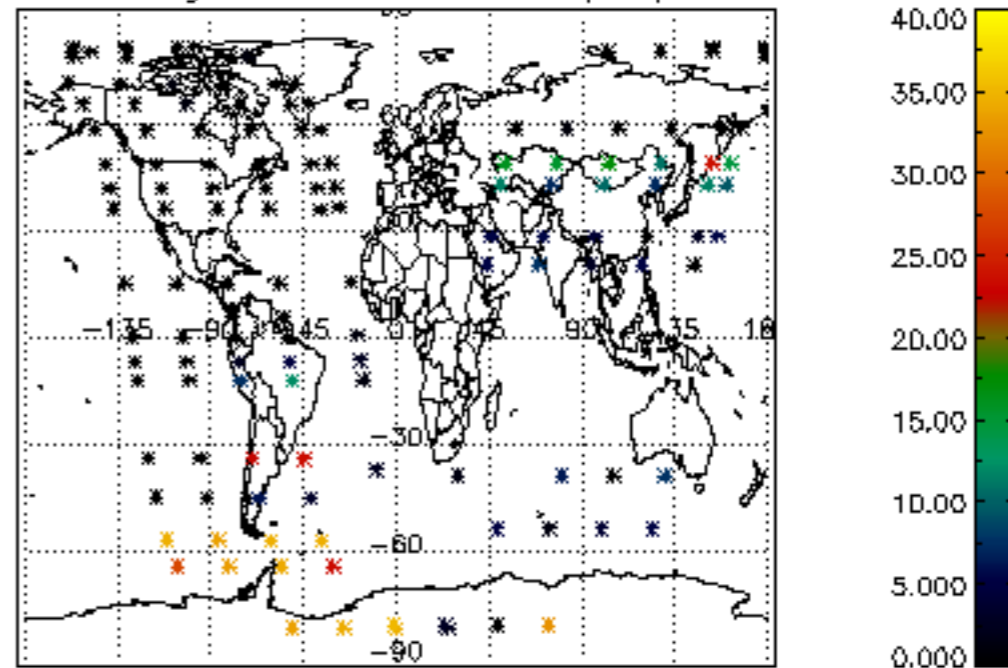
Percentage of datation errors per profile



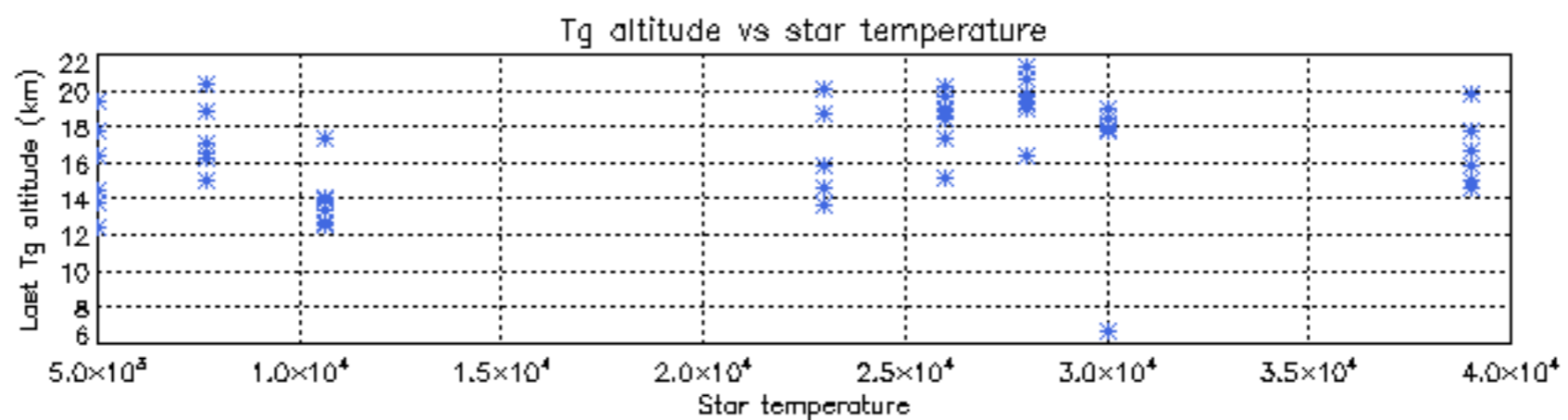
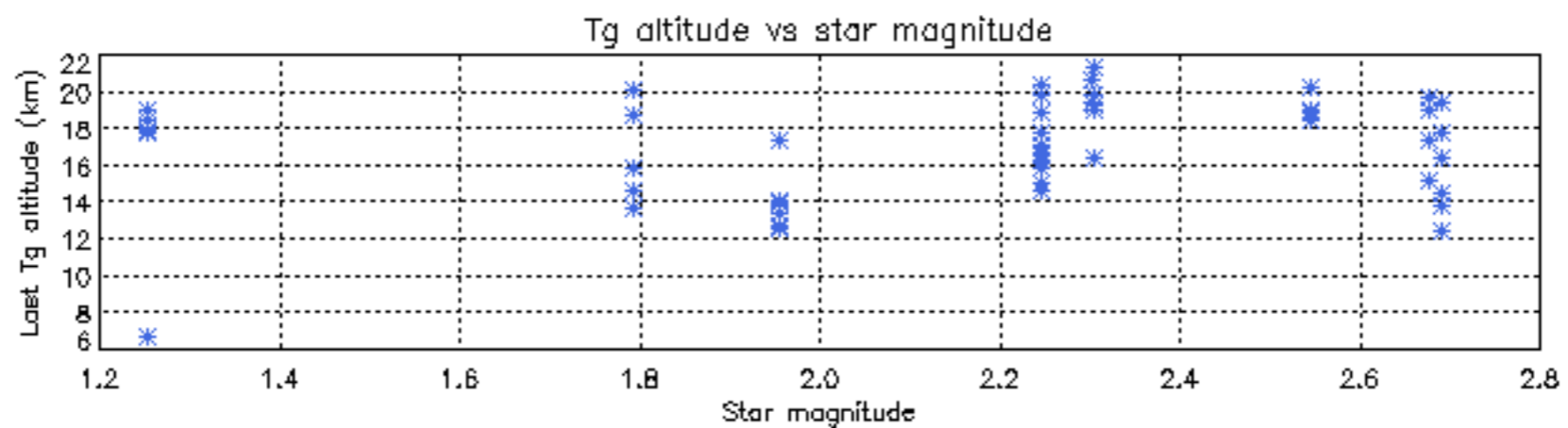
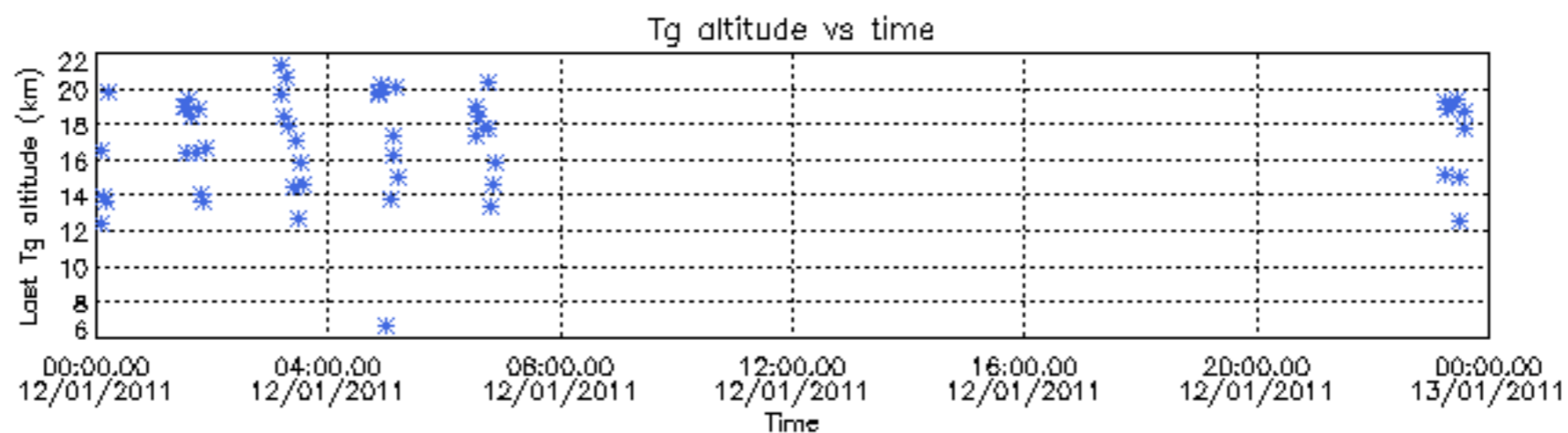
Percentage of star falling outside central band per profile



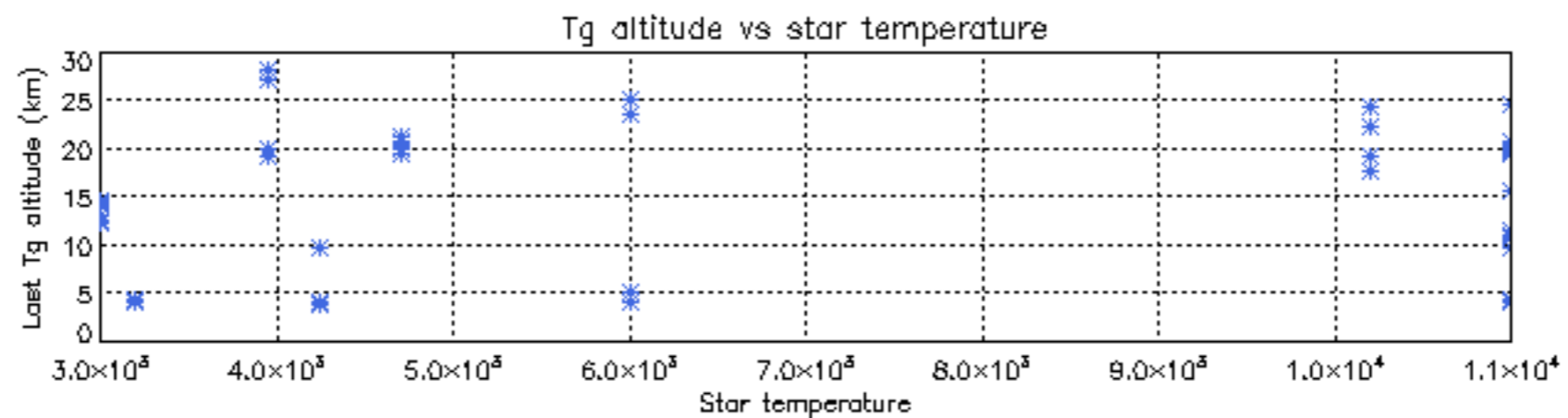
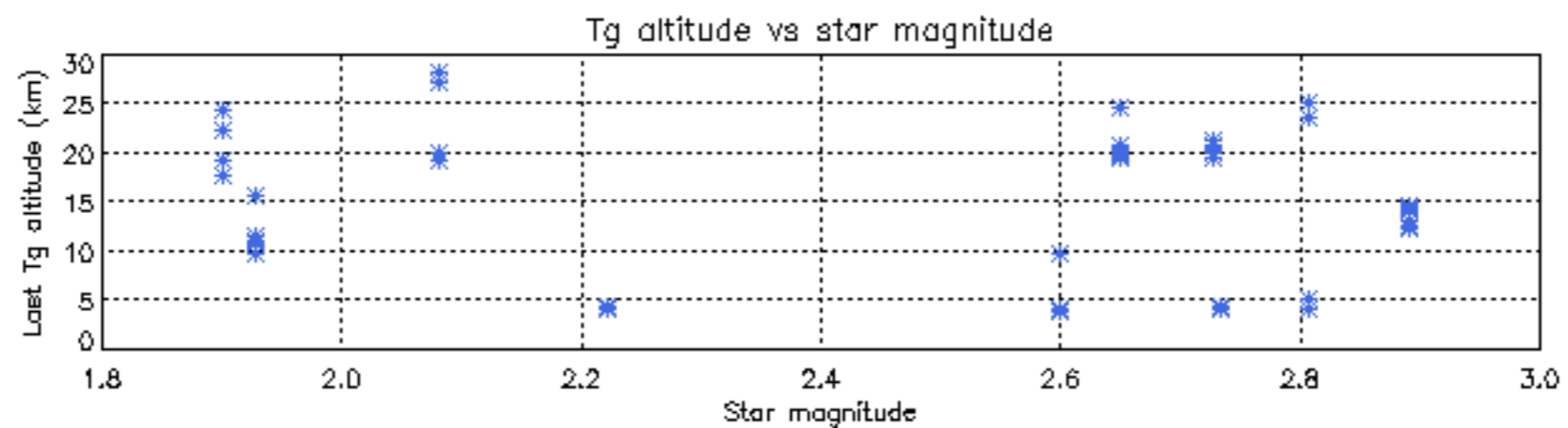
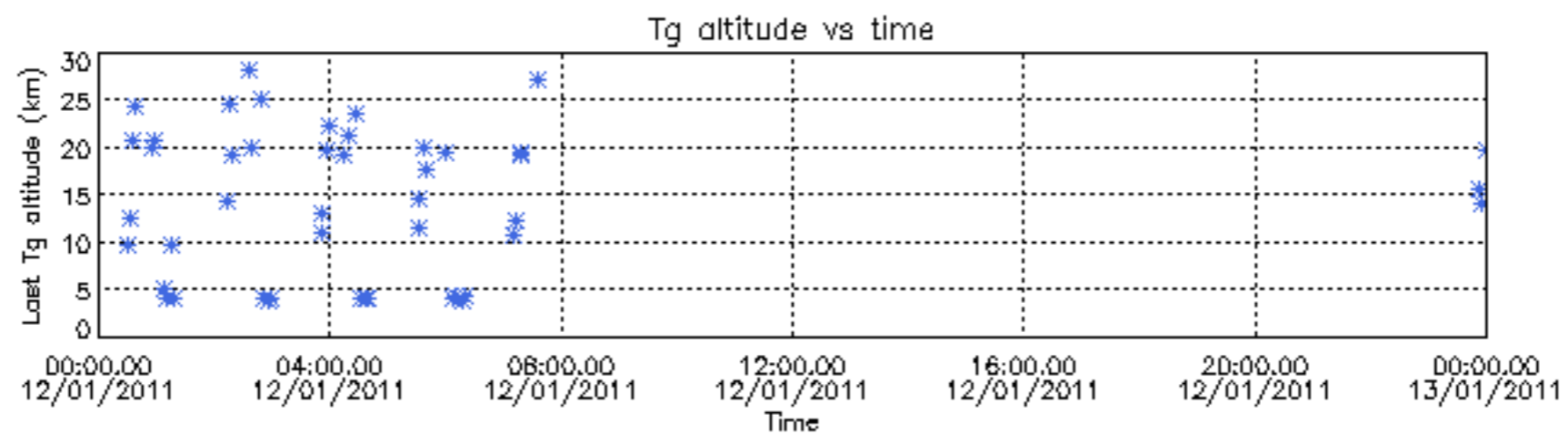
Percentage of saturation errors per profile

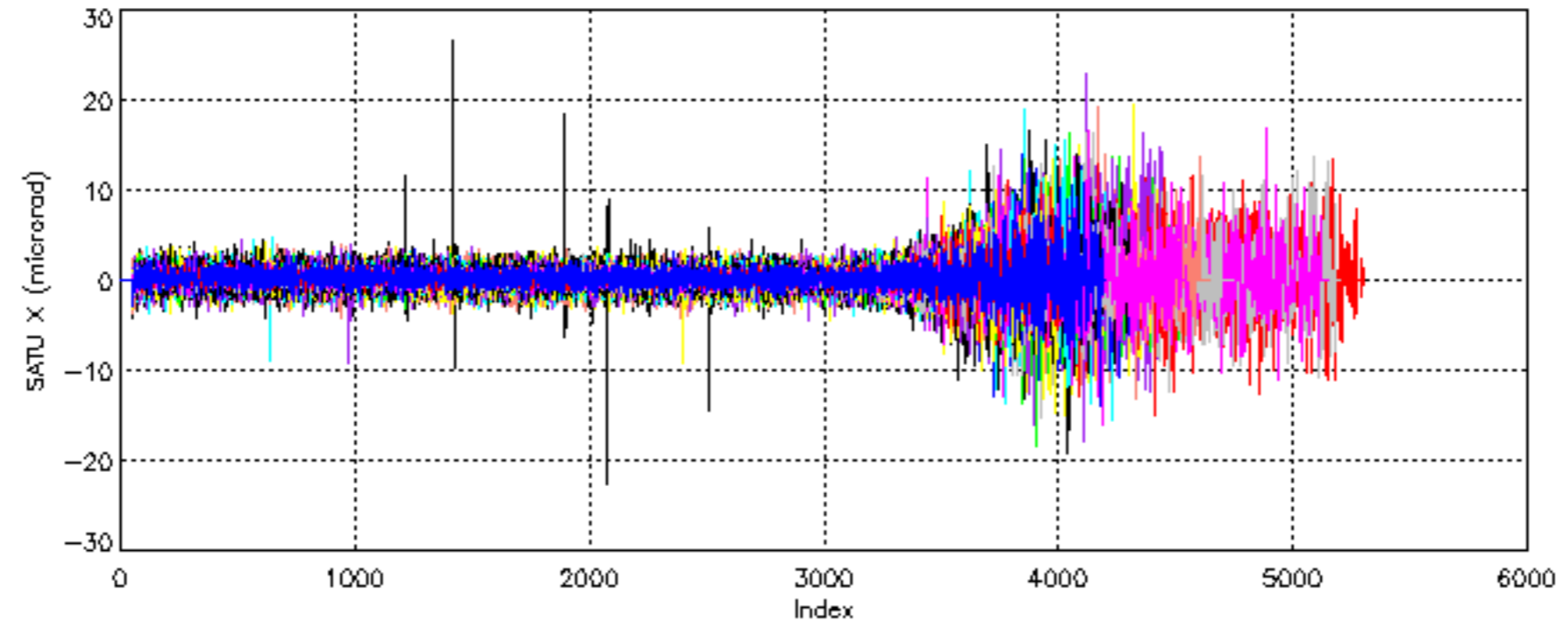


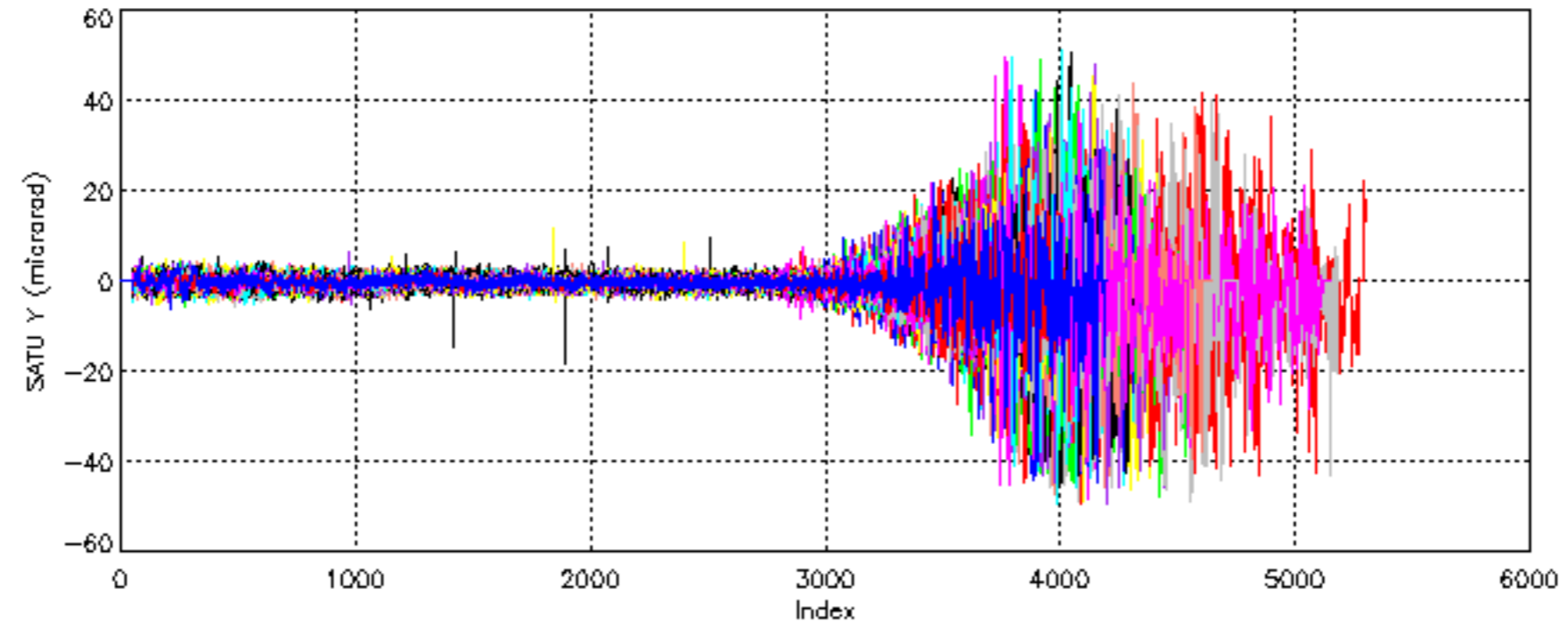
Tangent altitude at which the star is lost

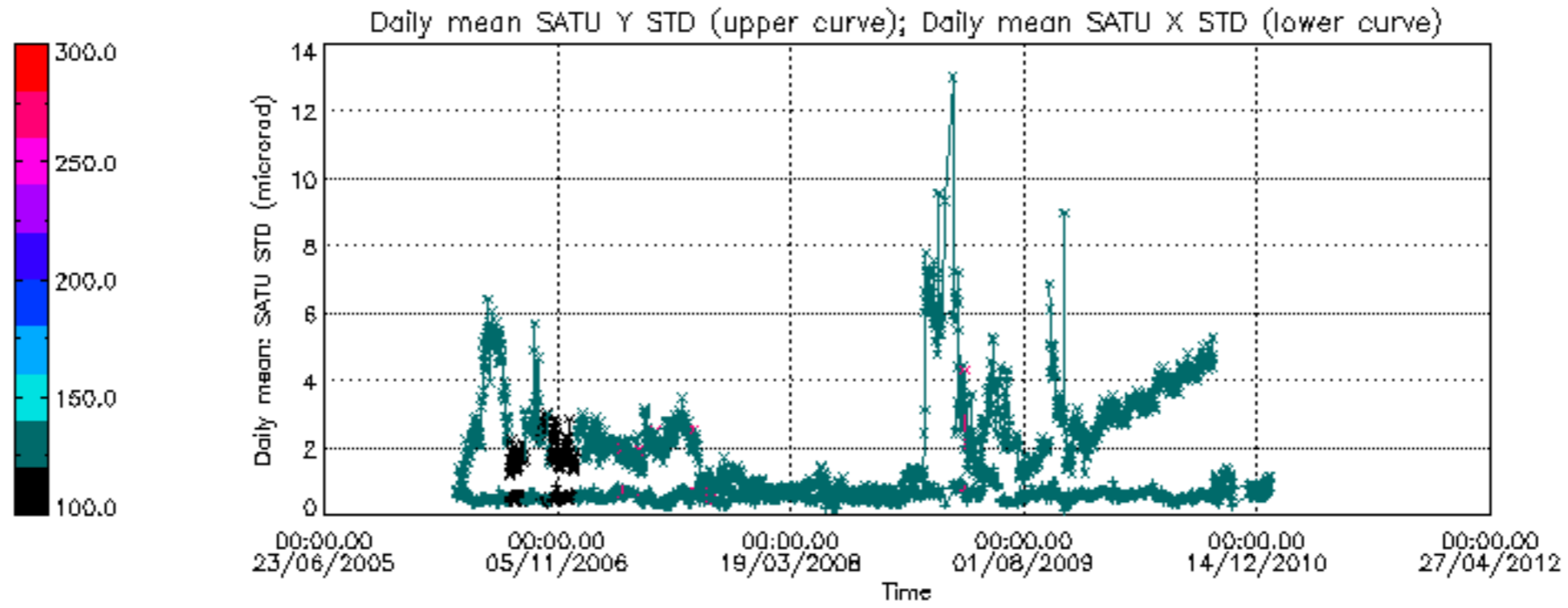


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110101_012508_000094163098_00074_46209_2000.N1

1;	-684.4;	01-JAN-2011	01:25:08;	Dark	;	45.0;	122;	9Alp2Lib	;	2.75;	9700;	occ;	90;	0;	46209
2;	-272.2;	01-JAN-2011	01:32:00;	Dark	;	43.0;	54;	5The Cen	;	2.06;	4500;	occ;	86;	0;	46209
3;	-3.0;	01-JAN-2011	01:36:29;	Dark	;	40.5;	77;	Eps Cen	;	2.30;	28000;	occ;	81;	0;	46210
4;	102.2;	01-JAN-2011	01:38:14;	Dark	;	45.0;	64;	Gam Cen	;	2.20;	10600;	occ;	90;	0;	46210
5;	211.5;	01-JAN-2011	01:40:04;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	46210
6;	470.5;	01-JAN-2011	01:44:23;	Dark	;	48.0;	113;	Mu Vel	;	2.69;	5000;	occ;	96;	0;	46210
7;	623.9;	01-JAN-2011	01:46:56;	Dark	;	48.5;	71;	Iot Car	;	2.25;	7700;	occ;	97;	0;	46210
8;	738.0;	01-JAN-2011	01:48:50;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;	occ;	85;	0;	46210
9;	908.3;	01-JAN-2011	01:51:41;	Dark	;	48.5;	34;	Gam2Vel	;	1.79;	23000;	occ;	97;	0;	46210
10;	1039.2;	01-JAN-2011	01:53:52;	Dark	;	49.5;	70;	Zet Pup	;	2.25;	39000;	occ;	99;	0;	46210
11;	1163.5;	01-JAN-2011	01:55:56;	Dark	;	49.0;	117;	Pi Pup	;	2.71;	3800;	occ;	98;	0;	46210
12;	1330.9;	01-JAN-2011	01:58:43;	Dark	;	47.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	94;	0;	46210
13;	1423.0;	01-JAN-2011	02:00:15;	Dark	;	45.0;	179;	240mi2CMa	;	3.03;	24000;	occ;	90;	0;	46210
14;	1570.3;	01-JAN-2011	02:02:43;	Dark	;	53.0;	1;	9Alp CMa	;	-1.44;	11000;	occ;	106;	0;	46210
15;	1719.7;	01-JAN-2011	02:05:12;	Dark	;	42.5;	56;	53Kap Ori	;	2.07;	30000;	occ;	85;	0;	46210
16;	1869.3;	01-JAN-2011	02:07:42;	Dark	;	45.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	91;	0;	46210
17;	2019.8;	01-JAN-2011	02:10:12;	Dark	;	55.0;	14;	58Alp Ori	;	0.87;	3000;	occ;	110;	0;	46210
18;	2214.1;	01-JAN-2011	02:13:26;	Dark	;	48.5;	44;	24Gam Gem	;	1.93;	11000;	occ;	97;	0;	46210
19;	2312.3;	01-JAN-2011	02:15:05;	Bright;	;	48.0;	151;	13Mu Gem	;	2.89;	3000;	occ;	96;	0;	46210
20;	2551.7;	01-JAN-2011	02:19:04;	Bright;	;	39.0;	107;	37The Aur	;	2.65;	11000;	occ;	78;	0;	46210
21;	2677.4;	01-JAN-2011	02:21:10;	Bright;	;	40.5;	6;	13Alp Aur	;	0.08;	3400;	occ;	81;	0;	46210
22;	3671.8;	01-JAN-2011	02:37:44;	Bright;	;	55.0;	60;	7Bet UMi	;	2.08;	3950;	occ;	110;	0;	46210
23;	3889.5;	01-JAN-2011	02:41:22;	Bright;	;	48.0;	32;	77Eps UMa	;	1.76;	11000;	occ;	96;	0;	46210
24;	4086.7;	01-JAN-2011	02:44:39;	Bright;	;	66.0;	39;	85Eta UMa	;	1.85;	24000;	occ;	132;	0;	46210
25;	4331.1;	01-JAN-2011	02:48:43;	Bright;	;	40.0;	180;	27Gam Boo	;	3.04;	8000;	occ;	80;	0;	46210
26;	4552.2;	01-JAN-2011	02:52:24;	Bright;	;	62.0;	83;		;	2.38;	11000;	occ;	124;	0;	46210
27;	4747.8;	01-JAN-2011	02:55:40;	Bright;	;	54.0;	3;	16Alp Boo	;	-0.05;	4250;	occ;	108;	0;	46210
28;	4868.3;	01-JAN-2011	02:57:41;	Bright;	;	54.0;	102;	24Alp Ser	;	2.60;	4250;	occ;	108;	0;	46210
29;	5171.3;	01-JAN-2011	03:02:44;	Bright;	;	56.0;	104;	27Bet Lib	;	2.61;	13100;	occ;	112;	0;	46210
30;	5330.2;	01-JAN-2011	03:05:23;	Dark	;	44.5;	122;	9Alp2Lib	;	2.75;	9700;	occ;	89;	0;	46210
31;	5742.5;	01-JAN-2011	03:12:15;	Dark	;	49.0;	54;	5The Cen	;	2.06;	4500;	occ;	98;	0;	46210
32;	5907.7;	01-JAN-2011	03:15:00;	Dark	;	40.0;	95;	Zet Cen	;	2.55;	26000;	occ;	80;	0;	46210
33;	6011.7;	01-JAN-2011	03:16:44;	Dark	;	39.5;	77;	Eps Cen	;	2.30;	28000;	occ;	79;	0;	46211
34;	6117.0;	01-JAN-2011	03:18:29;	Dark	;	45.0;	64;	Gam Cen	;	2.20;	10600;	occ;	90;	0;	46211
35;	6226.4;	01-JAN-2011	03:20:19;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	46211
36;	6485.7;	01-JAN-2011	03:24:38;	Dark	;	49.0;	113;	Mu Vel	;	2.69;	5000;	occ;	98;	0;	46211
37;	6638.6;	01-JAN-2011	03:27:11;	Dark	;	42.5;	71;	Iot Car	;	2.25;	7700;	occ;	85;	0;	46211
38;	6752.6;	01-JAN-2011	03:29:05;	Dark	;	45.0;	46;	Del Vel	;	1.95;	10600;	occ;	90;	0;	46211
39;	6923.2;	01-JAN-2011	03:31:56;	Dark	;	46.5;	34;	Gam2Vel	;	1.79;	23000;	occ;	93;	0;	46211
40;	7054.0;	01-JAN-2011	03:34:06;	Dark	;	45.5;	70;	Zet Pup	;	2.25;	39000;	occ;	91;	0;	46211
41;	7178.0;	01-JAN-2011	03:36:10;	Dark	;	47.0;	117;	Pi Pup	;	2.71;	3800;	occ;	94;	0;	46211
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44;	7584.6;	01-JAN-2011	03:42:57;	Dark	;	53.0;	1;	9Alp CMa	;	-1.44;	11000;	occ;	106;	0;	46211
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46;	7883.6;	01-JAN-2011	03:47:56;	Dark	;	44.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	89;	0;	46211
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49;	8326.2;	01-JAN-2011	03:55:18;	Bright;	;	43.5;	151;	13Mu Gem	;	2.89;	3000;	occ;	87;	0;	46211
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2;	-2124.9;	01-JAN-2011	04:21:36;	Bright;	;	47.5;	32;	77Eps UMa	;	1.76;	11000;	occ;	95;	0;	46211
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 19; 1189.6; 06-JAN-2011 07:13:54; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;46285
 20; 1350.6; 06-JAN-2011 07:16:34; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;46285
 21; 1439.2; 06-JAN-2011 07:18:03; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;46285
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 6; 3663.3; 06-JAN-2011 07:55:07; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46285
 7; 3904.7; 06-JAN-2011 07:59:09; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;46285
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 12; 5208.9; 06-JAN-2011 08:20:53; Dark ; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;46285
 13; 5379.3; 06-JAN-2011 08:23:43; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;46285
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 22; 6959.5; 06-JAN-2011 08:50:03; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;46286
 23; 7089.8; 06-JAN-2011 08:52:14; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;46286
 24; 7203.9; 06-JAN-2011 08:54:08; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;46286
 25; 7364.7; 06-JAN-2011 08:56:49; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;46286
 26; 7453.4; 06-JAN-2011 08:58:17; Dark ; 42.5; 179; 240mi2CMA ; 3.03; 24000;occ; 85; 0;46286
 27; 7594.2; 06-JAN-2011 09:00:38; Dark ; 56.0; 1; 9Alp CMA ; -1.44; 11000;occ; 112; 0;46286

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 8; 4068.6; 06-JAN-2011 09:42:06; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;46286
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 10; 4568.7; 06-JAN-2011 09:50:27; Bright; 53.5; 83; ; 2.38; 11000;occ; 107; 0;46286
 11; 4893.1; 06-JAN-2011 09:55:51; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;46286
 12; 5209.5; 06-JAN-2011 10:01:07; Dark ; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;46286
 13; 5379.9; 06-JAN-2011 10:03:58; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;46286
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 17; 6219.3; 06-JAN-2011 10:17:57; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;46287
 18; 6297.4; 06-JAN-2011 10:19:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46287
 19; 6551.8; 06-JAN-2011 10:23:30; Dark ; 48.5; 113; Mu Vel ; 2.69; 5000;occ; 97; 0;46287
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 21; 6792.0; 06-JAN-2011 10:27:30; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;46287
 22; 6960.0; 06-JAN-2011 10:30:18; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;46287
 23; 7090.2; 06-JAN-2011 10:32:28; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;46287
 24; 7204.2; 06-JAN-2011 10:34:22; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;46287
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 26; 7453.6; 06-JAN-2011 10:38:32; Dark ; 40.5; 179; 240mi2CMA ; 3.03; 24000;occ; 81; 0;46287
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 5; 2536.3; 06-JAN-2011 10:56:48; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46287
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 9; 4068.3; 06-JAN-2011 11:22:20; Bright; 47.0; 39; 85Eta UMa ; 1.85; 24000;occ; 94; 0;46287
 10; 4332.3; 06-JAN-2011 11:26:44; Bright; 67.0; 180; 27Gam Boo ; 3.04; 8000;occ; 134; 0;46287
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 12; 4893.5; 06-JAN-2011 11:36:05; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;46287
 13; 5210.0; 06-JAN-2011 11:41:22; Dark ; 42.5; 104; 27Bet Lib ; 2.61; 13100;occ; 85; 0;46287
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 17; 6057.5; 06-JAN-2011 11:55:29; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;46288
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 23; 6960.5; 06-JAN-2011 12:10:32; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;46288
 24; 7090.8; 06-JAN-2011 12:12:43; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;46288
 25; 7204.4; 06-JAN-2011 12:14:36; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;46288
 26; 7365.2; 06-JAN-2011 12:17:17; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;46288
 27; 7453.8; 06-JAN-2011 12:18:46; Dark ; 43.0; 179; 240mi2CMA ; 3.03; 24000;occ; 86; 0;46288
 28; 7594.4; 06-JAN-2011 12:21:06; Dark ; 18.5; 1; 9Alp CMA ; -1.44; 11000;occ; 37; 0;46288

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 9; 4068.0; 06-JAN-2011 13:02:34; Bright; 70.0; 39; 85Eta UMa ; 1.85; 24000;occ; 140; 0;46288
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 15; 5803.1; 06-JAN-2011 13:31:29; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;46288
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 19; 6299.3; 06-JAN-2011 13:39:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46289
 20; 6553.4; 06-JAN-2011 13:43:59; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;46289
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 22; 6793.0; 06-JAN-2011 13:47:59; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;46289
 23; 6960.9; 06-JAN-2011 13:50:47; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;46289
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 25; 7204.9; 06-JAN-2011 13:54:51; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;46289
 26; 7365.4; 06-JAN-2011 13:57:31; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;46289
 27; 7454.2; 06-JAN-2011 13:59:00; Dark ; 41.0; 179; 24Omi2Cma ; 3.03; 24000;occ; 82; 0;46289

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 13; 4894.4; 06-JAN-2011 14:56:34; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;46289
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 23; 6793.5; 06-JAN-2011 15:28:13; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;46290
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 26; 7204.9; 06-JAN-2011 15:35:05; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;46290
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6;	219.2;	08-JAN-2011	02:23:47;	Dark	;	44.0;	20;	Bet Cru	;	1.25;	30000;occ;	88;	0;	46311
7;	306.0;	08-JAN-2011	02:25:14;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	46311
8;	558.3;	08-JAN-2011	02:29:26;	Dark	;	52.0;	113;	Mu Vel	;	2.69;	5000;occ;	104;	0;	46311
9;	676.0;	08-JAN-2011	02:31:24;	Dark	;	40.0;	71;	Iot Car	;	2.25;	7700;occ;	80;	0;	46311
10;	789.5;	08-JAN-2011	02:33:18;	Dark	;	41.5;	46;	Del Vel	;	1.95;	10600;occ;	83;	0;	46311
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13;	1197.5;	08-JAN-2011	02:40:06;	Dark	;	47.0;	117;	Pi Pup	;	2.71;	3800;occ;	94;	0;	46311
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2;	-2109.3;	08-JAN-2011	03:25:13;	Bright;	;	37.5;	119;	14Eta Dra	;	2.73;	4700;occ;	75;	0;	46311
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4;	-1681.6;	08-JAN-2011	03:32:21;	Bright;	;	68.0;	180;	27Gam Boo	;	3.04;	8000;occ;	136;	0;	46311
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 24; 7137.8; 14-JAN-2011 17:21:03; Dark ; 18.5; 70; Zet Pup ; 2.25; 39000;occ; 37; 0;46406

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2;	1351.4;	14-JAN-2011	17:24:51;	Dark	;	45.0;	88;	31Eta CMa	;	2.45;	20000;occ;	90;	0;	46406
3;	1462.8;	14-JAN-2011	17:26:42;	Dark	;	42.5;	179;	240mi2CMa	;	3.03;	24000;occ;	85;	0;	46406
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5;	2002.4;	14-JAN-2011	17:35:42;	Dark	;	62.5;	8;	10Alp CMi	;	0.40;	6500;occ;	125;	0;	46406
6;	2176.1;	14-JAN-2011	17:38:36;	Dark	;	55.0;	44;	24Gam Gem	;	1.93;	11000;occ;	110;	0;	46406
7;	2278.7;	14-JAN-2011	17:40:18;	Bright;	;	42.0;	151;	13Mu Gem	;	2.89;	3000;occ;	84;	0;	46406
8;	2456.6;	14-JAN-2011	17:43:16;	Bright;	;	47.5;	17;	78Bet Gem	;	1.16;	4500;occ;	95;	0;	46406
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13;	4942.9;	14-JAN-2011	18:24:43;	Bright;	;	62.0;	102;	24Alp Ser	;	2.60;	4250;occ;	124;	0;	46406
14;	5070.9;	14-JAN-2011	18:26:51;	Bright;	;	37.0;	120;	1Del Oph	;	2.73;	3200;occ;	74;	0;	46406
15;	5288.1;	14-JAN-2011	18:30:28;	Dark	;	50.0;	104;	27Bet Lib	;	2.61;	13100;occ;	100;	0;	46406
16;	5405.1;	14-JAN-2011	18:32:25;	Dark	;	41.5;	80;	7Del Sco	;	2.32;	30000;occ;	83;	0;	46406
17;	5836.0;	14-JAN-2011	18:39:36;	Dark	;	42.0;	109;	Bet Lup	;	2.68;	26000;occ;	84;	0;	46406
18;	5926.4;	14-JAN-2011	18:41:06;	Dark	;	41.0;	78;	Alp Lup	;	2.30;	28000;occ;	82;	0;	46406
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21;	6410.3;	14-JAN-2011	18:49:10;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	46407
22;	6735.5;	14-JAN-2011	18:54:35;	Dark	;	42.0;	71;	Iot Car	;	2.25;	7700;occ;	84;	0;	46407
23;	6847.3;	14-JAN-2011	18:56:27;	Dark	;	40.5;	46;	Del Vel	;	1.95;	10600;occ;	81;	0;	46407
24;	7010.0;	14-JAN-2011	18:59:10;	Dark	;	40.0;	34;	Gam2Vel	;	1.79;	23000;occ;	80;	0;	46407
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2;	1124.1;	14-JAN-2011	19:01:18;	Dark	;	45.5;	70;	Zet Pup	;	2.25;	39000;occ;	91;	0;	46407
3;	1351.8;	14-JAN-2011	19:05:06;	Dark	;	43.0;	88;	31Eta CMa	;	2.45;	20000;occ;	86;	0;	46407
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5;	1599.6;	14-JAN-2011	19:09:13;	Dark	;	46.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	92;	0;	46407
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7;	2176.0;	14-JAN-2011	19:18:50;	Dark	;	42.0;	44;	24Gam Gem	;	1.93;	11000;occ;	84;	0;	46407
8;	2278.7;	14-JAN-2011	19:20:32;	Bright;	;	42.0;	151;	13Mu Gem	;	2.89;	3000;occ;	84;	0;	46407
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13;	4563.1;	14-JAN-2011	19:58:37;	Bright;	;	63.0;	67;	5Alp CrB	;	2.22;	11000;occ;	126;	0;	46407
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19;	5926.8;	14-JAN-2011	20:21:21;	Dark	;	41.0;	78;	Alp Lup	;	2.30;	28000;occ;	82;	0;	46407
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21;	6292.3;	14-JAN-2011	20:27:26;	Dark	;	45.5;	20;	Bet Cru	;	1.25;	30000;occ;	91;	0;	46408
22;	6411.1;	14-JAN-2011	20:29:25;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	46408
23;	6735.9;	14-JAN-2011	20:34:50;	Dark	;	40.5;	71;	Iot Car	;	2.25;	7700;occ;	81;	0;	46408
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29; 6085.6; 18-JAN-2011 02:54:58; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;46455
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34; 6803.9; 18-JAN-2011 03:06:56; Dark ; 39.0; 91; Kap Vel ; 2.49; 26000;occ; 78; 0;46455
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9; 4994.7; 21-JAN-2011 09:07:46; Bright; 46.5; 102; 24Alp Ser ; 2.60; 4250;occ; 93; 0;46501
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7; 4444.5; 21-JAN-2011 10:38:50; Bright; 57.0; 133; 40Zet Her ; 2.81; 6000;occ; 114; 0;46502
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9; 4995.2; 21-JAN-2011 10:48:01; Bright; 47.5; 102; 24Alp Ser ; 2.60; 4250;occ; 95; 0;46502
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 6; 3627.4; 21-JAN-2011 15:25:55; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46505

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8; 4445.0; 21-JAN-2011 15:39:32; Bright; 57.0; 133; 40Zet Her ; 2.81; 6000;occ; 114; 0;46505
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 6; -795.6; 25-JAN-2011 05:04:21; Dark ; 46.5; 98; 13Zet Oph ; 2.57; 30000;occ; 93; 0;46556
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 12; 3888.9; 25-JAN-2011 23:04:45; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;46567
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 14; 4453.4; 25-JAN-2011 23:14:10; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;46567
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16; 835.6; 25-JAN-2011 07:11:46; Dark ; 40.0; 91; Kap Vel ; 2.49; 26000;occ; 80; 0;46558
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3; 3331.0; 25-JAN-2011 07:53:21; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;46558
4; 3616.4; 25-JAN-2011 07:58:07; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;46558
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7; 4452.1; 25-JAN-2011 08:12:02; Bright; 59.0; 133; 40Zet Her ; 2.81; 6000;occ; 118; 0;46558
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13; 5947.4; 25-JAN-2011 10:17:12; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;46559
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1; 1457.0; 31-JAN-2011 17:03:36; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;46650
2; 1731.3; 31-JAN-2011 17:08:11; Dark ; 34.0; 48; 30Alp Hya ; 1.98; 4100;occ; 68; 0;46650
3; 1980.4; 31-JAN-2011 17:12:20; Dark ; 54.0; 8; 10Alp CMi ; 0.40; 6500;occ; 108; 0;46650
4; 2379.8; 31-JAN-2011 17:18:59; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;46650
5; 3267.6; 31-JAN-2011 17:33:47; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;46650
6; 3594.7; 31-JAN-2011 17:39:14; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;46650
7; 3876.7; 31-JAN-2011 17:43:56; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;46650
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11; 4902.6; 31-JAN-2011 18:01:02; Bright; 54.0; 126; 60Bet Oph ; 2.77; 4250;occ; 108; 0;46650
12; 5289.6; 31-JAN-2011 18:07:29; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;46650
13; 5546.9; 31-JAN-2011 18:11:46; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;46650
14; 5629.8; 31-JAN-2011 18:13:09; Dark ; 48.5; 158; 6Pi Sco ; 2.91; 28000;occ; 97; 0;46650
15; 5892.8; 31-JAN-2011 18:17:32; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46650
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18; 6275.0; 31-JAN-2011 18:23:54; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;46651
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3;	1731.3;	31-JAN-2011	18:48:25;	Dark	;	34.0;	48;	30Alp Hya	;	1.98;	4100;occ;	68;	0;46651
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