

# GOMOS Daily Report 27-SEP-2010

## Level 0 and Level 1 products

### SUMMARY

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

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

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

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

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

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

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

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

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

[4.2 Plot of Dark Charge](#)

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

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

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

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

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

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

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

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

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

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

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

[7.2 SATU Noise Equivalent Angle statistics](#)

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

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

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

## [Level 2 products](#)

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

Item	Value
Time of report generation	29SEP2010 04:34:36
Data source version	GOMOS/5.01
Start time of products	27SEP2010 00:07:59
Stop time of products	27SEP2010 23:50:32
Store outputs in DB	Yes
Nb of level 1b prods	90
Nb of prods with errors	0

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

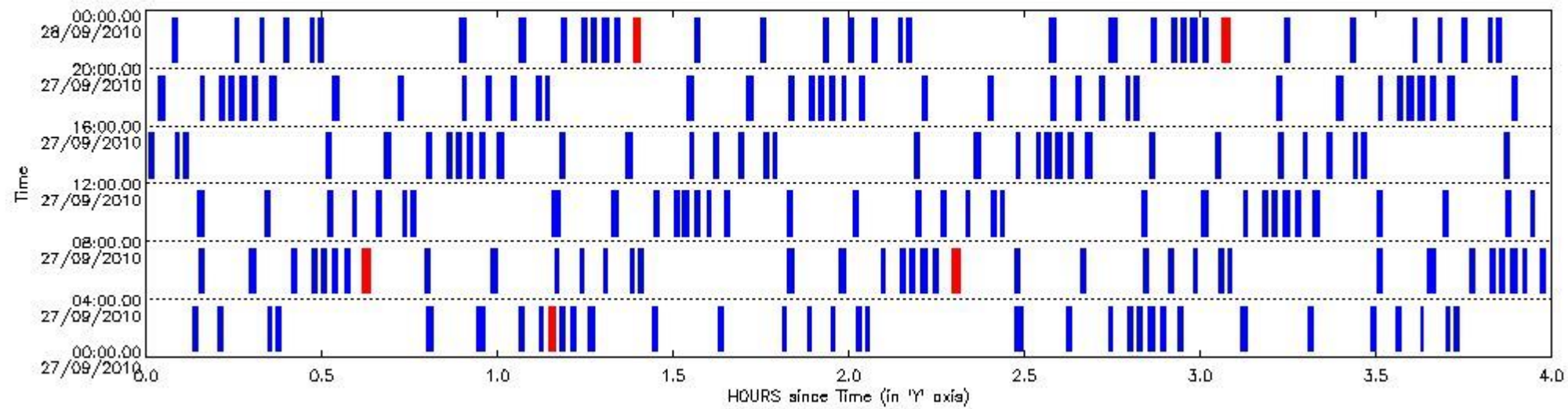
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
27-SEP-2010 01:08:43	21EpsCMa	23	44831
27-SEP-2010 04:36:55	AlpCol	108	44834
27-SEP-2010 06:17:32	AlpCol	108	44835
27-SEP-2010 21:23:09	AlpCol	108	44844
27-SEP-2010 23:03:46	AlpCol	108	44845

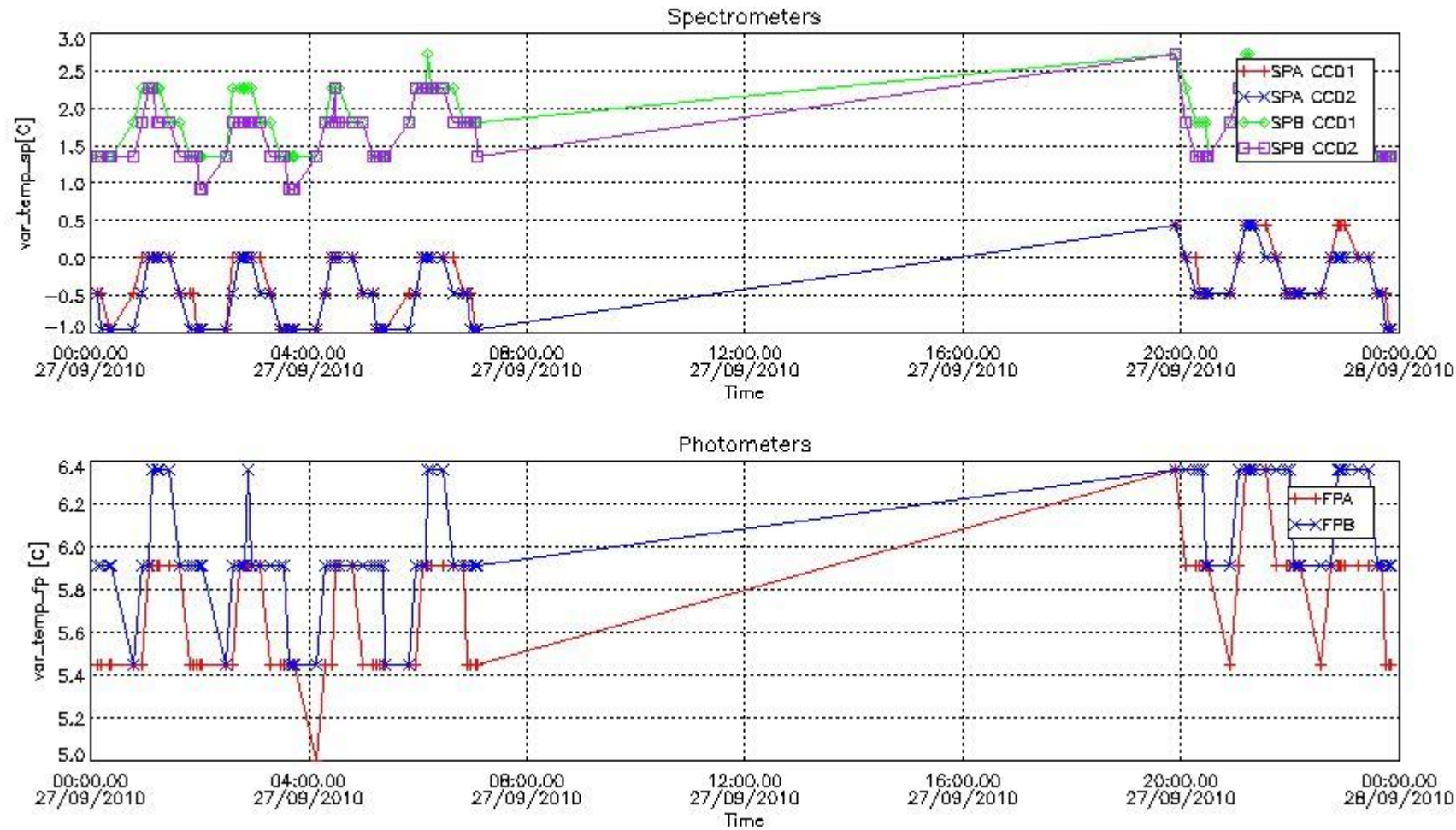
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100927_000759_000000432093_00188_44831_6626.N1	27-SEP-2010 00:07:59	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	44831	No
2	GOM_TRA_1PNPDE20100927_001213_000000432093_00188_44831_6627.N1	27-SEP-2010 00:12:13	Bright	43.000	58	21Alp And	2.0730	11000.	86	44831	No
3	GOM_TRA_1PNPDE20100927_002046_000000382093_00188_44831_6628.N1	27-SEP-2010 00:20:46	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	44831	No
4	GOM_TRA_1PNPDE20100927_002215_000000432093_00188_44831_6629.N1	27-SEP-2010 00:22:15	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	44831	No
5	GOM_TRA_1PNPDE20100927_004743_000000712093_00188_44831_6630.N1	27-SEP-2010 00:47:43	Bright	71.000	17	78Bet Gem	1.1610	4500.0	142	44831	No
6	GOM_TRA_1PNPDE20100927_005625_000000732093_00188_44831_6631.N1	27-SEP-2010 00:56:25	Dark	73.000	8	10Alp CMI	0.40000	6500.0	146	44831	No

7	GOM_TRA_1PNPDE20100927_010338_000000442093_00188_44831_6664.N1	27-SEP-2010 01:03:38	Dark	43.500	132	15Rho Pup	2.8030	6900.0	87	44831	No
8	GOM_TRA_1PNPDE20100927_010701_000000462093_00188_44831_6665.N1	27-SEP-2010 01:07:01	Dark	45.500	88	31Eta CMa	2.4480	20000.	91	44831	No
9	GOM_TRA_1PNPDE20100927_011237_000000422093_00189_44832_6666.N1	27-SEP-2010 01:12:37	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	44832	No
10	GOM_TRA_1PNPDE20100927_011530_000000552093_00189_44832_6667.N1	27-SEP-2010 01:15:30	Dark	55.000	108	Alp Col	2.6520	15200.	110	44832	No
11	GOM_TRA_1PNPDE20100927_012622_000000512093_00189_44832_6668.N1	27-SEP-2010 01:26:22	Straylight	50.500	157	The1Eri	2.9060	9300.0	101	44832	No
12	GOM_TRA_1PNPDE20100927_013743_000000502093_00189_44832_6669.N1	27-SEP-2010 01:37:43	Twi_and_stray	50.000	52	16Bet Cet	2.0370	4500.0	100	44832	No
13	GOM_TRA_1PNPDE20100927_014834_000000432093_00189_44832_6670.N1	27-SEP-2010 01:48:34	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	44832	No
14	GOM_TRA_1PNPDE20100927_015249_000000422093_00189_44832_6671.N1	27-SEP-2010 01:52:49	Bright	42.000	58	21Alp And	2.0730	11000.	84	44832	No
15	GOM_TRA_1PNPDE20100927_015700_000000292093_00189_44832_6672.N1	27-SEP-2010 01:57:00	Twi_and_stray	29.000	53	43Bet And	2.0480	3300.0	58	44832	No
16	GOM_TRA_1PNPDE20100927_020122_000000372093_00189_44832_6673.N1	27-SEP-2010 02:01:22	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	44832	No
17	GOM_TRA_1PNPDE20100927_020250_000000412093_00189_44832_6674.N1	27-SEP-2010 02:02:50	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	44832	No
18	GOM_TRA_1PNPDE20100927_022820_000000712093_00189_44832_6675.N1	27-SEP-2010 02:28:20	Bright	71.000	17	78Bet Gem	1.1610	4500.0	142	44832	No
19	GOM_TRA_1PNPDE20100927_023701_000000632093_00189_44832_6676.N1	27-SEP-2010 02:37:01	Dark	62.500	8	10Alp CMi	0.40000	6500.0	125	44832	No
20	GOM_TRA_1PNPDE20100927_024415_000000442093_00189_44832_6677.N1	27-SEP-2010 02:44:15	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	44832	No
21	GOM_TRA_1PNPDE20100927_024737_000000512093_00189_44832_6678.N1	27-SEP-2010 02:47:37	Dark	50.500	88	31Eta CMa	2.4480	20000.	101	44832	No
22	GOM_TRA_1PNPDE20100927_024910_000000532093_00189_44832_6679.N1	27-SEP-2010 02:49:10	Dark	53.000	23	21Eps CMa	1.5020	26000.	106	44832	No
23	GOM_TRA_1PNPDE20100927_025313_000000422093_00190_44833_6680.N1	27-SEP-2010 02:53:13	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	44833	No
24	GOM_TRA_1PNPDE20100927_025607_000000572093_00190_44833_6681.N1	27-SEP-2010 02:56:07	Dark	56.500	108	Alp Col	2.6520	15200.	113	44833	No
25	GOM_TRA_1PNPDE20100927_030659_000000522093_00190_44833_6682.N1	27-SEP-2010 03:06:59	Straylight	51.500	157	The1Eri	2.9060	9300.0	103	44833	No
26	GOM_TRA_1PNPDE20100927_031819_000000542093_00190_44833_6683.N1	27-SEP-2010 03:18:19	Twi_and_stray	53.500	52	16Bet Cet	2.0370	4500.0	107	44833	No
27	GOM_TRA_1PNPDE20100927_032910_000000422093_00190_44833_6684.N1	27-SEP-2010 03:29:10	Bright	42.000	140	88Gam Peg	2.8340	26000.	84	44833	No
28	GOM_TRA_1PNPDE20100927_033324_000000432093_00190_44833_6685.N1	27-SEP-2010 03:33:24	Bright	42.500	58	21Alp And	2.0730	11000.	85	44833	No
29	GOM_TRA_1PNPDE20100927_033735_000000292093_00190_44833_6686.N1	27-SEP-2010 03:37:35	Twi_and_stray	28.500	53	43Bet And	2.0480	3300.0	57	44833	No
30	GOM_TRA_1PNPDE20100927_034158_000000402093_00190_44833_6692.N1	27-SEP-2010 03:41:58	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	44833	No
31	GOM_TRA_1PNPDE20100927_034326_000000422093_00190_44833_6693.N1	27-SEP-2010 03:43:26	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44833	No
32	GOM_TRA_1PNPDE20100927_040856_000000542093_00190_44833_6694.N1	27-SEP-2010 04:08:56	Bright	53.500	17	78Bet Gem	1.1610	4500.0	107	44833	No
33	GOM_TRA_1PNPDE20100927_041738_000000672093_00190_44833_6695.N1	27-SEP-2010 04:17:38	Dark	67.000	8	10Alp CMi	0.40000	6500.0	134	44833	No
34	GOM_TRA_1PNPDE20100927_042451_000000442093_00190_44833_6696.N1	27-SEP-2010 04:24:51	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	44833	No
35	GOM_TRA_1PNPDE20100927_042814_000000472093_00190_44833_6697.N1	27-SEP-2010 04:28:14	Dark	47.000	88	31Eta CMa	2.4480	20000.	94	44833	No
36	GOM_TRA_1PNPDE20100927_042947_000000512093_00190_44833_6698.N1	27-SEP-2010 04:29:47	Dark	51.000	23	21Eps CMa	1.5020	26000.	102	44833	No
37	GOM_TRA_1PNPDE20100927_043350_000000522093_00191_44834_6699.N1	27-SEP-2010 04:33:50	Dark	51.500	161	Tau Pup	2.9310	4500.0	103	44834	No
38	GOM_TRA_1PNPDE20100927_044736_000000532093_00191_44834_6700.N1	27-SEP-2010 04:47:36	Straylight	52.500	157	The1Eri	2.9060	9300.0	105	44834	No
39	GOM_TRA_1PNPDE20100927_045855_000000562093_00191_44834_6701.N1	27-SEP-2010 04:58:55	Twi_and_stray	55.500	52	16Bet Cet	2.0370	4500.0	111	44834	No
40	GOM_TRA_1PNPDE20100927_050946_000000432093_00191_44834_6702.N1	27-SEP-2010 05:09:46	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	44834	No
41	GOM_TRA_1PNPDE20100927_051400_000000422093_00191_44834_6703.N1	27-SEP-2010 05:14:00	Bright	41.500	58	21Alp And	2.0730	11000.	83	44834	No
42	GOM_TRA_1PNPDE20100927_051810_000000352093_00191_44834_6704.N1	27-SEP-2010 05:18:10	Twi_and_stray	35.000	53	43Bet And	2.0480	3300.0	70	44834	No
43	GOM_TRA_1PNPDE20100927_052233_000000382093_00191_44834_6705.N1	27-SEP-2010 05:22:33	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	44834	No
44	GOM_TRA_1PNPDE20100927_052401_000000402093_00191_44834_6706.N1	27-SEP-2010 05:24:01	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44834	No
45	GOM_TRA_1PNPDE20100927_054932_000000582093_00191_44834_6716.N1	27-SEP-2010 05:49:32	Bright	58.000	17	78Bet Gem	1.1610	4500.0	116	44834	No
46	GOM_TRA_1PNPDE20100927_055815_000000652093_00191_44834_6717.N1	27-SEP-2010 05:58:15	Dark	65.000	8	10Alp CMi	0.40000	6500.0	130	44834	No
47	GOM_TRA_1PNPDE20100927_060528_000000442093_00191_44834_6718.N1	27-SEP-2010 06:05:28	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	44834	No
48	GOM_TRA_1PNPDE20100927_060851_000000492093_00191_44834_6719.N1	27-SEP-2010 06:08:51	Dark	48.500	88	31Eta CMa	2.4480	20000.	97	44834	No
49	GOM_TRA_1PNPDE20100927_061024_000000522093_00191_44834_6720.N1	27-SEP-2010 06:10:24	Dark	52.000	23	21Eps CMa	1.5020	26000.	104	44834	No
50	GOM_TRA_1PNPDE20100927_061426_000000492093_00192_44835_6721.N1	27-SEP-2010 06:14:26	Dark	48.500	161	Tau Pup	2.9310	4500.0	97	44835	No
51	GOM_TRA_1PNPDE20100927_062813_000000492093_00192_44835_6722.N1	27-SEP-2010 06:28:13	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	44835	No
52	GOM_TRA_1PNPDE20100927_063931_000000532093_00192_44835_6723.N1	27-SEP-2010 06:39:31	Twi_and_stray	52.500	52	16Bet Cet	2.0370	4500.0	105	44835	No
53	GOM_TRA_1PNPDE20100927_065021_000000422093_00192_44835_6724.N1	27-SEP-2010 06:50:21	Bright	41.500	140	88Gam Peg	2.8340	26000.	83	44835	No
54	GOM_TRA_1PNPDE20100927_065435_000000422093_00192_44835_6725.N1	27-SEP-2010 06:54:35	Bright	42.000	58	21Alp And	2.0730	11000.	84	44835	No
55	GOM_TRA_1PNPDE20100927_065845_000000352093_00192_44835_6726.N1	27-SEP-2010 06:58:45	Twi_and_stray	35.000	53	43Bet And	2.0480	3300.0	70	44835	No
56	GOM_TRA_1PNPDE20100927_070309_000000402093_00192_44835_6727.N1	27-SEP-2010 07:03:09	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	44835	No
57	GOM_TRA_1PNPDE20100927_070437_000000412093_00192_44835_6728.N1	27-SEP-2010 07:04:37	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	44835	No
58	GOM_TRA_1PNPDE20100927_195306_000000542093_00200_44843_6819.N1	27-SEP-2010 19:53:06	Straylight	53.500	157	The1Eri	2.9060	9300.0	107	44843	No
59	GOM_TRA_1PNPDE20100927_200420_000000532093_00200_44843_6820.N1	27-SEP-2010 20:04:20	Twi_and_stray	53.000	52	16Bet Cet	2.0370	4500.0	106	44843	No
60	GOM_TRA_1PNPDE20100927_201506_000000432093_00200_44843_6821.N1	27-SEP-2010 20:15:06	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	44843	No
61	GOM_TRA_1PNPDE20100927_201920_000000412093_00200_44843_6822.N1	27-SEP-2010 20:19:20	Bright	41.000	58	21Alp And	2.0730	11000.	82	44843	No
62	GOM_TRA_1PNPDE20100927_202326_000000532093_00200_44843_6823.N1	27-SEP-2010 20:23:26	Bright	53.000	53	43Bet And	2.0480	3300.0	106	44843	No
63	GOM_TRA_1PNPDE20100927_202754_000000382093_00200_44843_6824.N1	27-SEP-2010 20:27:54	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	44843	No
64	GOM_TRA_1PNPDE20100927_202921_000000422093_00200_44843_6825.N1	27-SEP-2010 20:29:21	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44843	No
65	GOM_TRA_1PNPDE20100927_205334_000000542093_00200_44843_6826.N1	27-SEP-2010 20:53:34	Bright	53.500	24	66Alp Gem	1.5800	10200.	107	44843	No

66	GOM_TRA_1PNPDE20100927_210346_000000642093_00200_44843_6843.N1	27-SEP-2010 21:03:46	Dark	64.000	8	10Alp CMi	0.40000	6500.0	128	44843	No
67	GOM_TRA_1PNPDE20100927_211058_000000482093_00200_44843_6844.N1	27-SEP-2010 21:10:58	Dark	47.500	132	15Rho Pup	2.8030	6900.0	95	44843	No
68	GOM_TRA_1PNPDE20100927_211423_000000452093_00200_44843_6845.N1	27-SEP-2010 21:14:23	Dark	45.000	88	31Eta CMa	2.4480	20000.	90	44843	No
69	GOM_TRA_1PNPDE20100927_211558_000000522093_00200_44843_6846.N1	27-SEP-2010 21:15:58	Dark	52.000	23	21Eps CMa	1.5020	26000.	104	44843	No
70	GOM_TRA_1PNPDE20100927_211956_000000442093_00201_44844_6847.N1	27-SEP-2010 21:19:56	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	44844	No
71	GOM_TRA_1PNPDE20100927_213343_000000512093_00201_44844_6848.N1	27-SEP-2010 21:33:43	Straylight	50.500	157	The1Eri	2.9060	9300.0	101	44844	No
72	GOM_TRA_1PNPDE20100927_214455_000000522093_00201_44844_6849.N1	27-SEP-2010 21:44:55	Straylight	51.500	52	16Bet Cet	2.0370	4500.0	103	44844	No
73	GOM_TRA_1PNPDE20100927_215542_000000422093_00201_44844_6850.N1	27-SEP-2010 21:55:42	Bright	42.000	140	88Gam Peg	2.8340	26000.	84	44844	No
74	GOM_TRA_1PNPDE20100927_215955_000000422093_00201_44844_6851.N1	27-SEP-2010 21:59:55	Bright	42.000	58	21Alp And	2.0730	11000.	84	44844	No
75	GOM_TRA_1PNPDE20100927_220401_000000502093_00201_44844_6852.N1	27-SEP-2010 22:04:01	Bright	49.500	53	43Bet And	2.0480	3300.0	99	44844	No
76	GOM_TRA_1PNPDE20100927_220829_000000392093_00201_44844_6853.N1	27-SEP-2010 22:08:29	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	44844	No
77	GOM_TRA_1PNPDE20100927_220956_000000422093_00201_44844_6854.N1	27-SEP-2010 22:09:56	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44844	No
78	GOM_TRA_1PNPDE20100927_223410_000000742093_00201_44844_6855.N1	27-SEP-2010 22:34:10	Bright	74.000	24	66Alp Gem	1.5800	10200.	148	44844	No
79	GOM_TRA_1PNPDE20100927_224423_000000732093_00201_44844_6856.N1	27-SEP-2010 22:44:23	Dark	73.000	8	10Alp CMi	0.40000	6500.0	146	44844	No
80	GOM_TRA_1PNPDE20100927_225134_000000442093_00201_44844_6866.N1	27-SEP-2010 22:51:34	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	44844	No
81	GOM_TRA_1PNPDE20100927_225500_000000512093_00201_44844_6867.N1	27-SEP-2010 22:55:00	Dark	50.500	88	31Eta CMa	2.4480	20000.	101	44844	No
82	GOM_TRA_1PNPDE20100927_225635_000000522093_00201_44844_6868.N1	27-SEP-2010 22:56:35	Dark	51.500	23	21Eps CMa	1.5020	26000.	103	44844	No
83	GOM_TRA_1PNPDE20100927_230033_000000422093_00202_44845_6869.N1	27-SEP-2010 23:00:33	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	44845	No
84	GOM_TRA_1PNPDE20100927_231420_000000522093_00202_44845_6870.N1	27-SEP-2010 23:14:20	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	44845	No
85	GOM_TRA_1PNPDE20100927_232532_000000522093_00202_44845_6871.N1	27-SEP-2010 23:25:32	Straylight	51.500	52	16Bet Cet	2.0370	4500.0	103	44845	No
86	GOM_TRA_1PNPDE20100927_233617_000000412093_00202_44845_6872.N1	27-SEP-2010 23:36:17	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	44845	No
87	GOM_TRA_1PNPDE20100927_234031_000000432093_00202_44845_6873.N1	27-SEP-2010 23:40:31	Bright	43.000	58	21Alp And	2.0730	11000.	86	44845	No
88	GOM_TRA_1PNPDE20100927_234436_000000482093_00202_44845_6874.N1	27-SEP-2010 23:44:36	Bright	47.500	53	43Bet And	2.0480	3300.0	95	44845	No
89	GOM_TRA_1PNPDE20100927_234904_000000412093_00202_44845_6875.N1	27-SEP-2010 23:49:04	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	44845	No
90	GOM_TRA_1PNPDE20100927_235032_000000422093_00202_44845_6876.N1	27-SEP-2010 23:50:32	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	44845	No

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



#### 4. Overview of dark signal processing per product

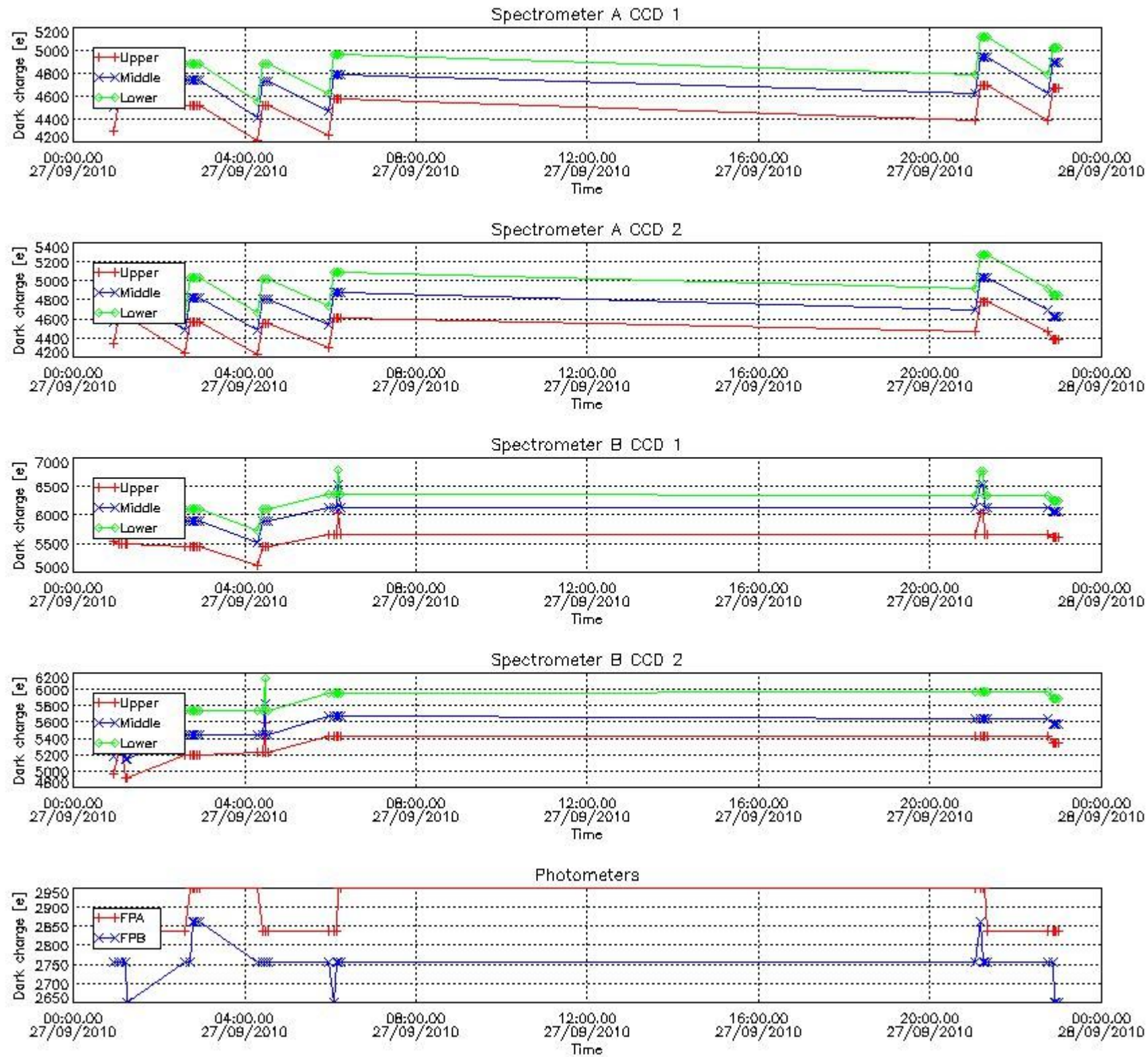
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100927_195306_000000542093_00200_44843_6819.N1	DC map with no T dep.
GOM_TRA_1PNPDE20100927_200420_000000532093_00200_44843_6820.N1	DC map used
GOM_TRA_1PNPDE20100927_201506_000000432093_00200_44843_6821.N1	DC map used
GOM_TRA_1PNPDE20100927_201920_000000412093_00200_44843_6822.N1	DC map used
GOM_TRA_1PNPDE20100927_202326_000000532093_00200_44843_6823.N1	DC map used
GOM_TRA_1PNPDE20100927_202754_000000382093_00200_44843_6824.N1	DC map used
GOM_TRA_1PNPDE20100927_202921_000000422093_00200_44843_6825.N1	DC map used
GOM_TRA_1PNPDE20100927_205334_000000542093_00200_44843_6826.N1	DC map used

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



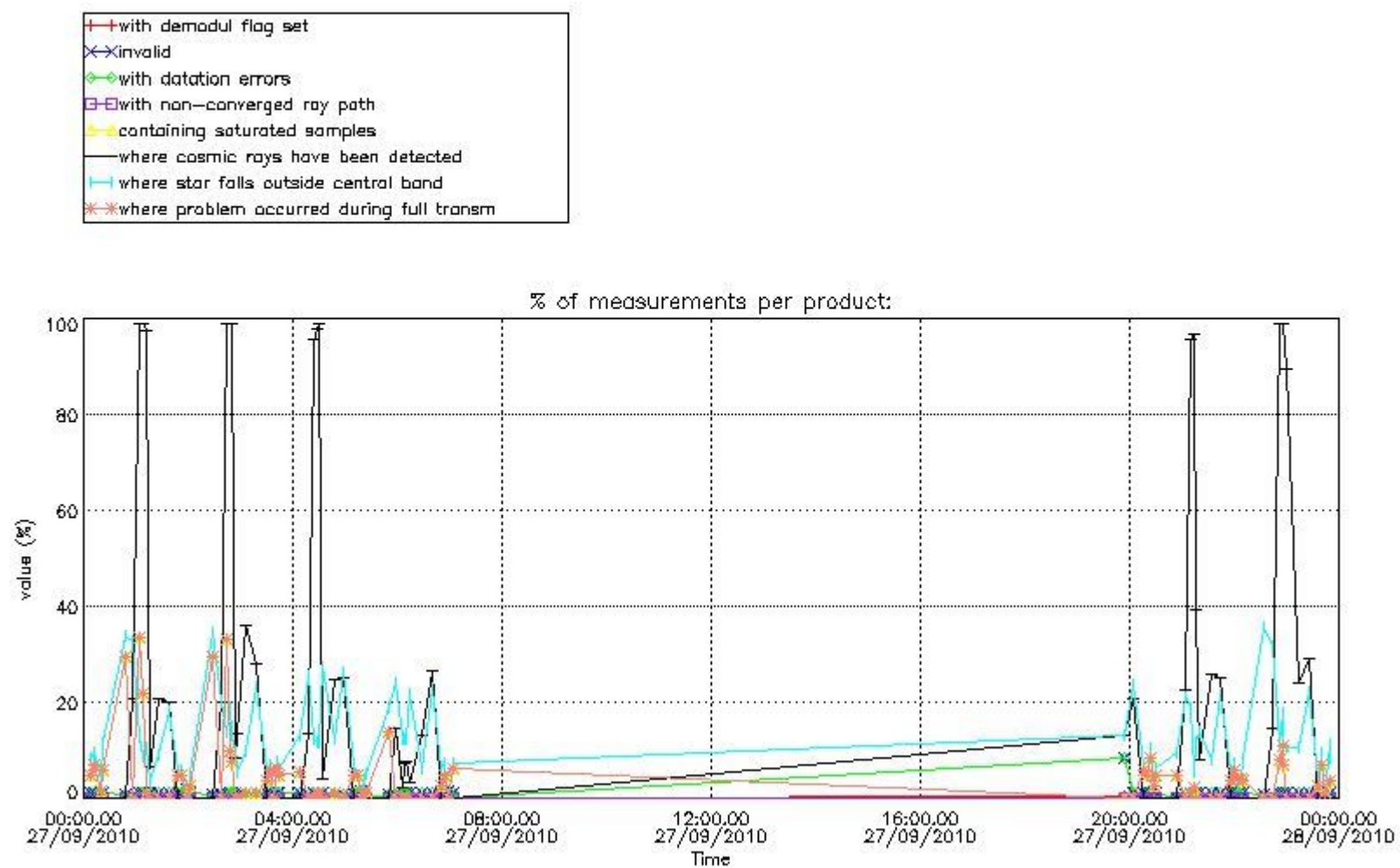
## 5. Demodulation flag and quality information monitoring

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.

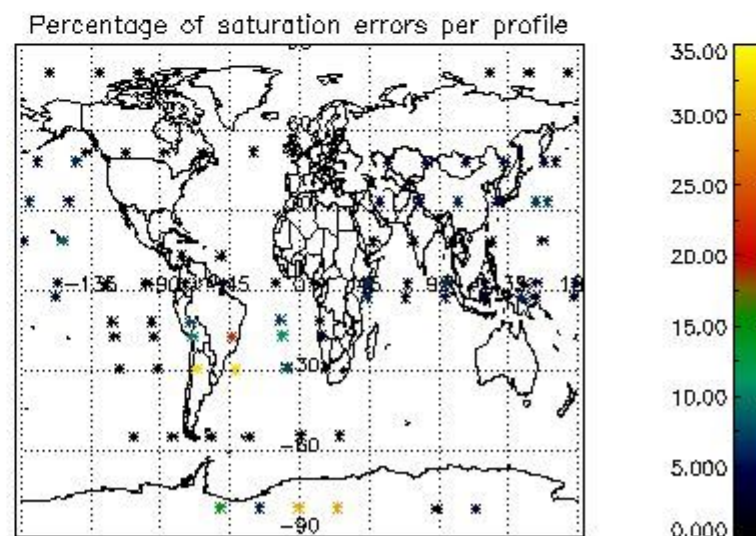
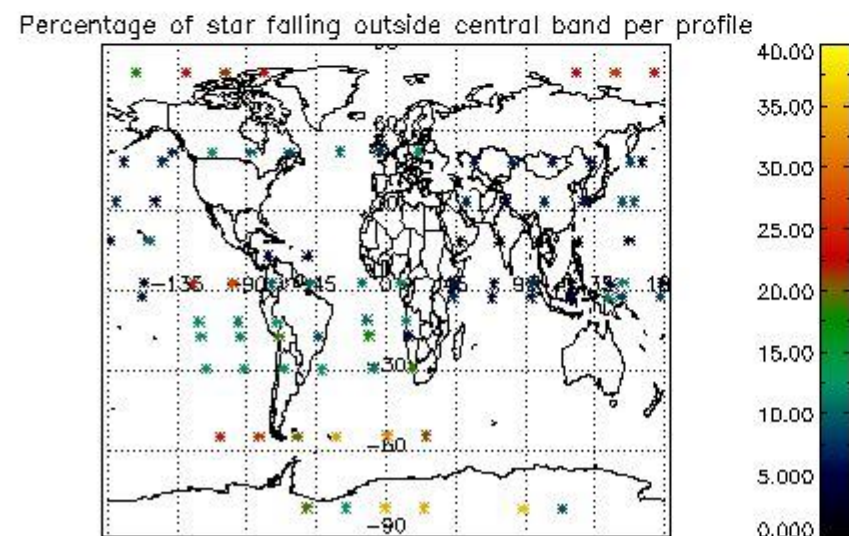
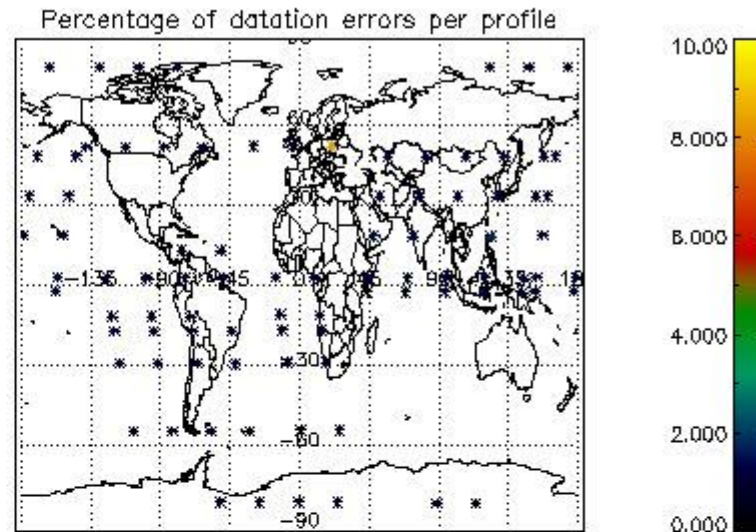
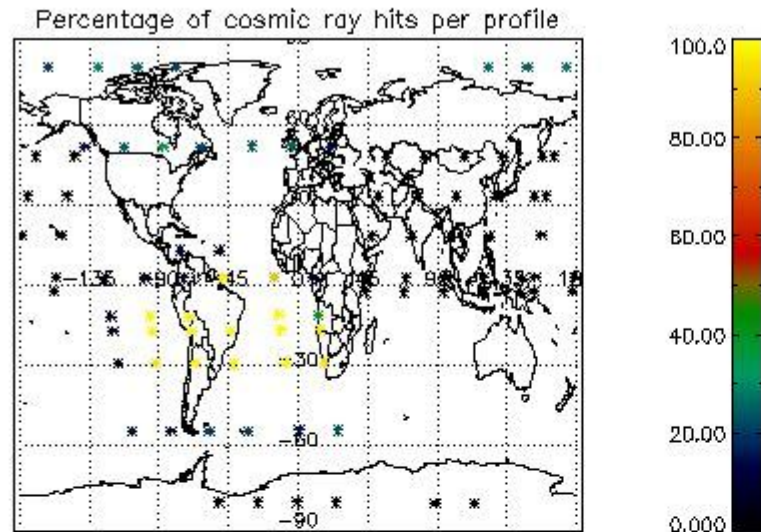
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	46.6667 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)



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

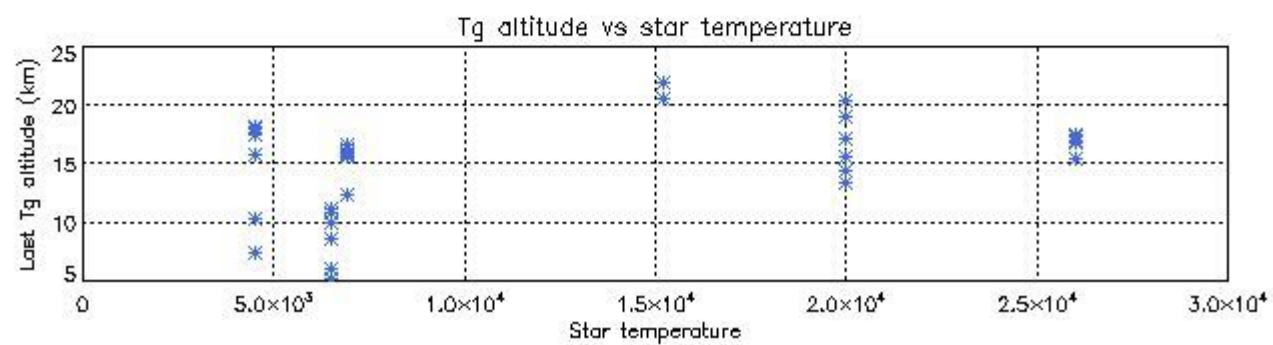
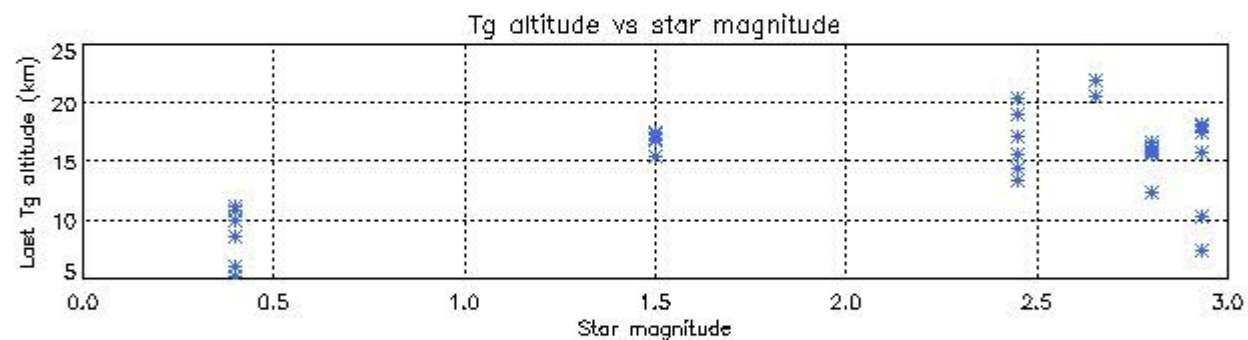
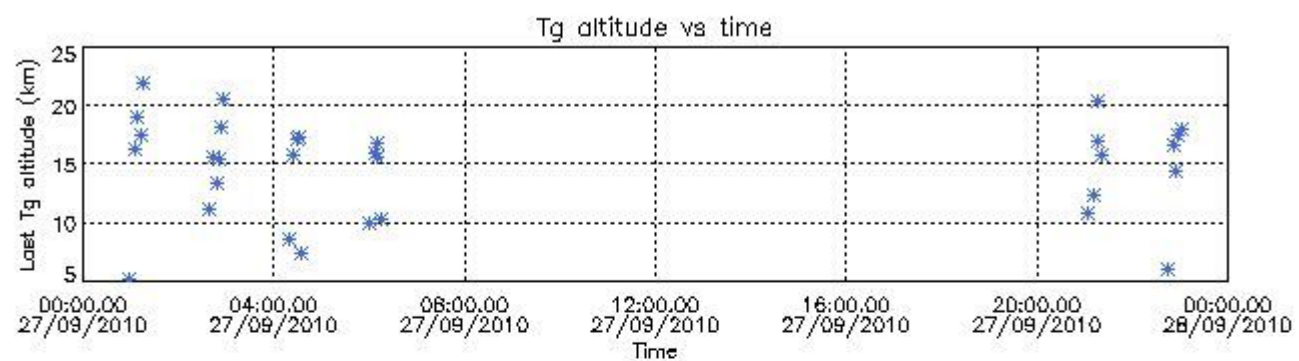
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.785	19.212	NaN
St. deviation:	4.2577	4.8796	NaN
Maximum:	21.990	24.626	NaN
Minimum:	5.2203	3.9206	NaN
Number of data:	31.000	41.000	NaN

### 6.2 Plot for DARK limb products

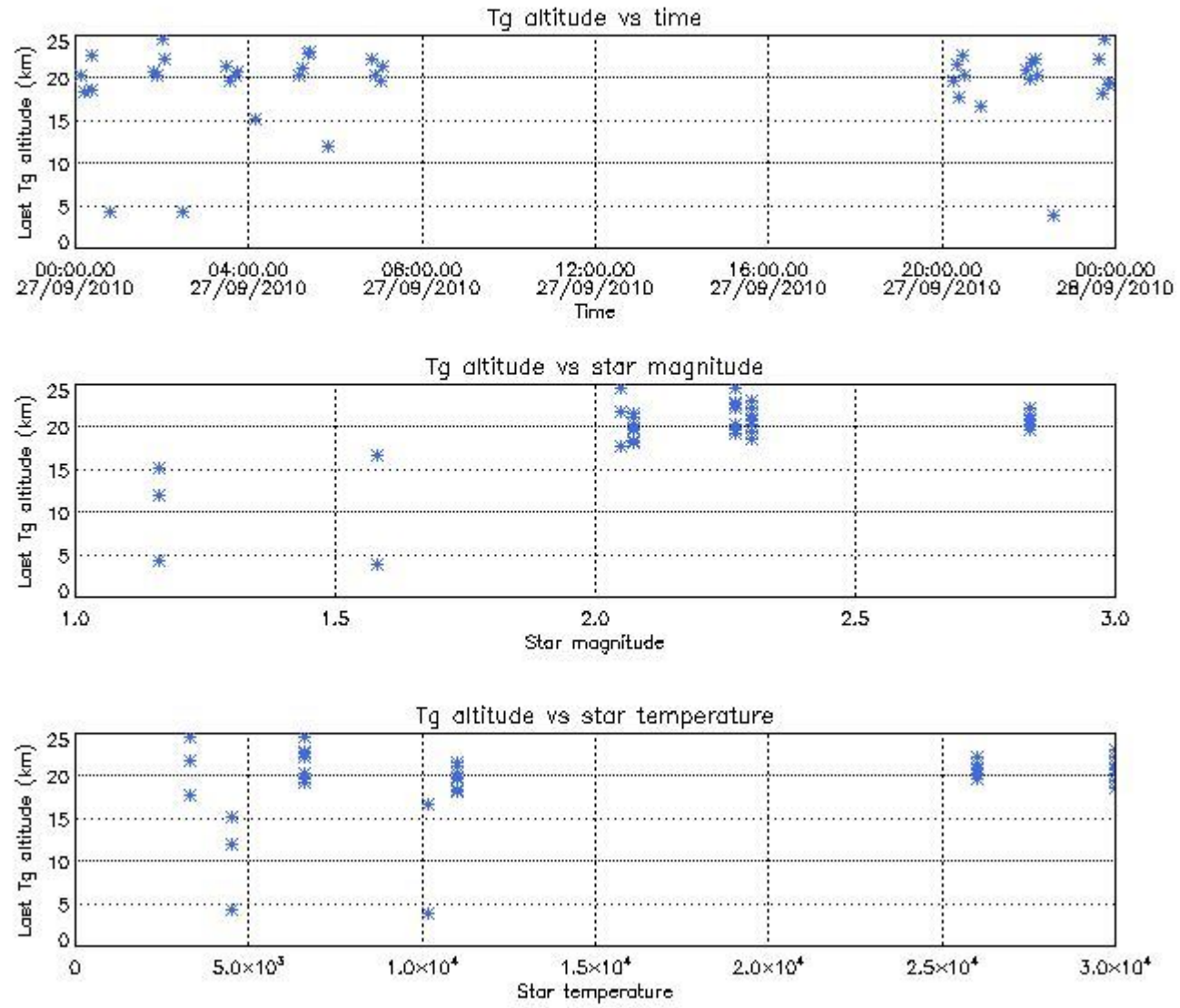


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

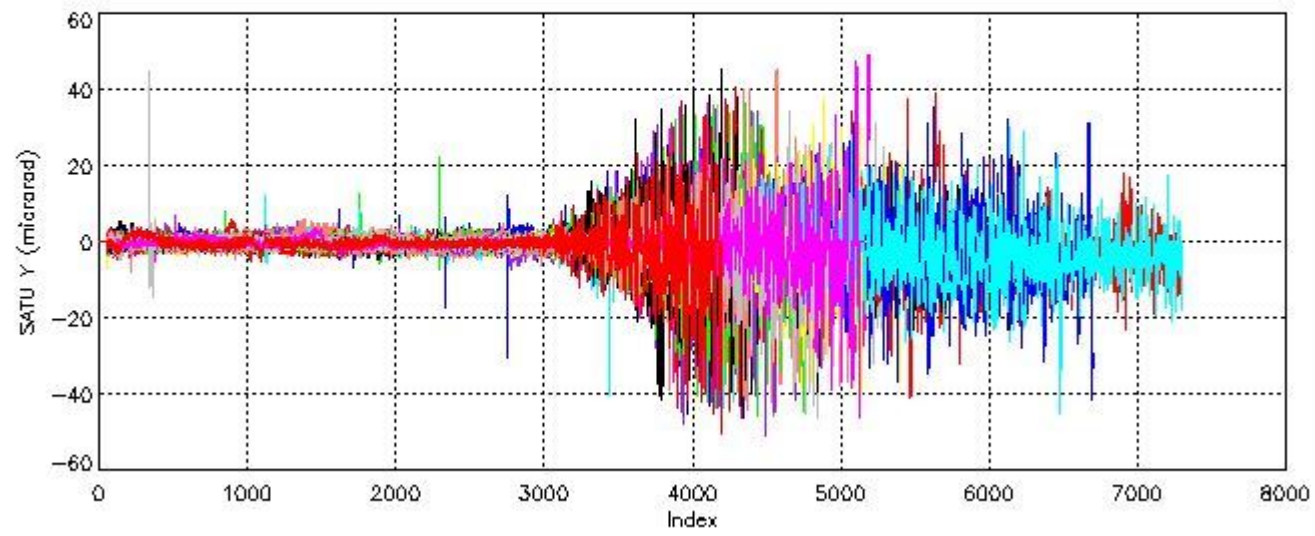
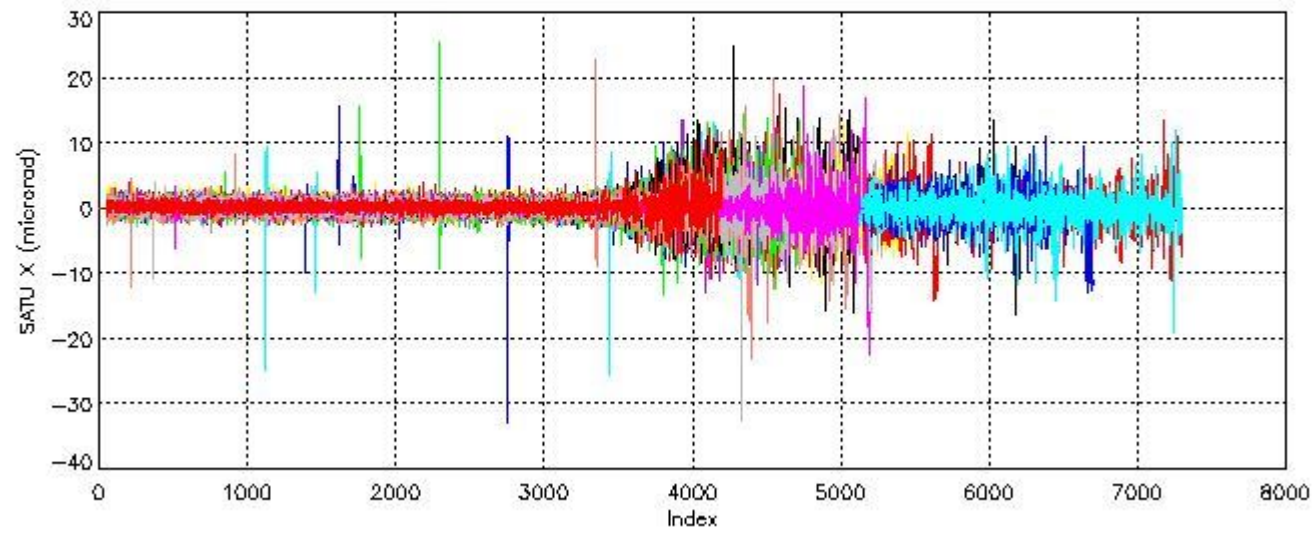


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.18318	-0.16664	0.25434	-0.27398
St. deviation:	0.59394	0.95221	0.82537	1.1674
Maximum:	8.1000	44.500	6.2000	7.2000
Minimum:	-12.200	-14.900	-5.3000	-14.600

Number of data:	33600.	33600.	42100.	42100.
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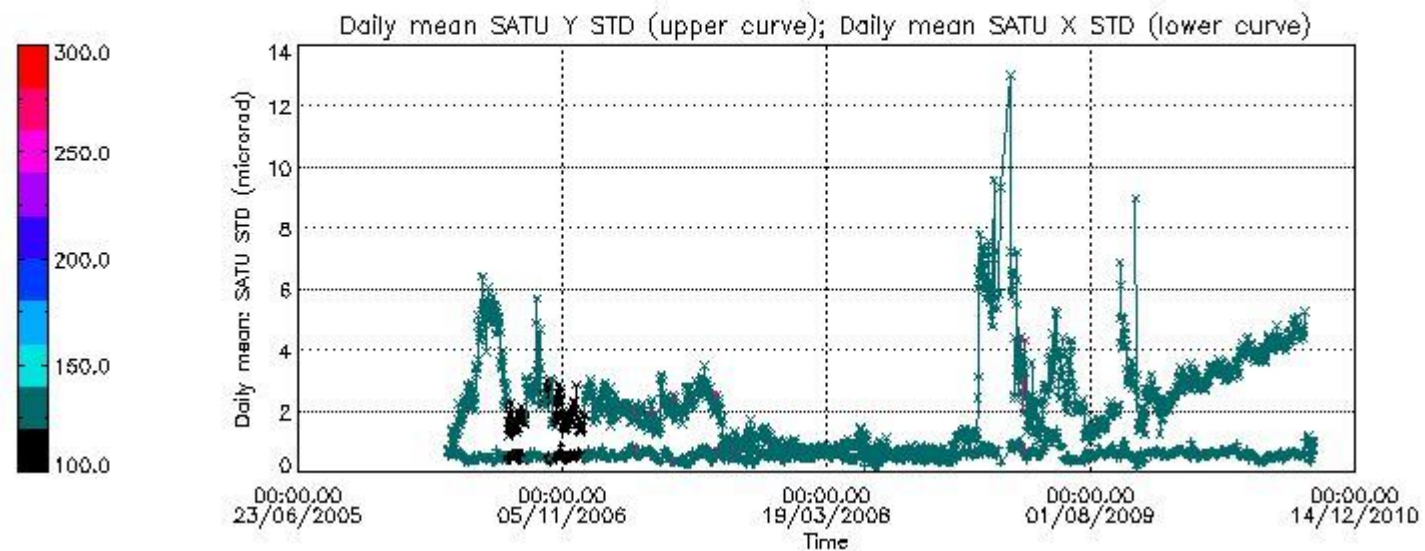
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

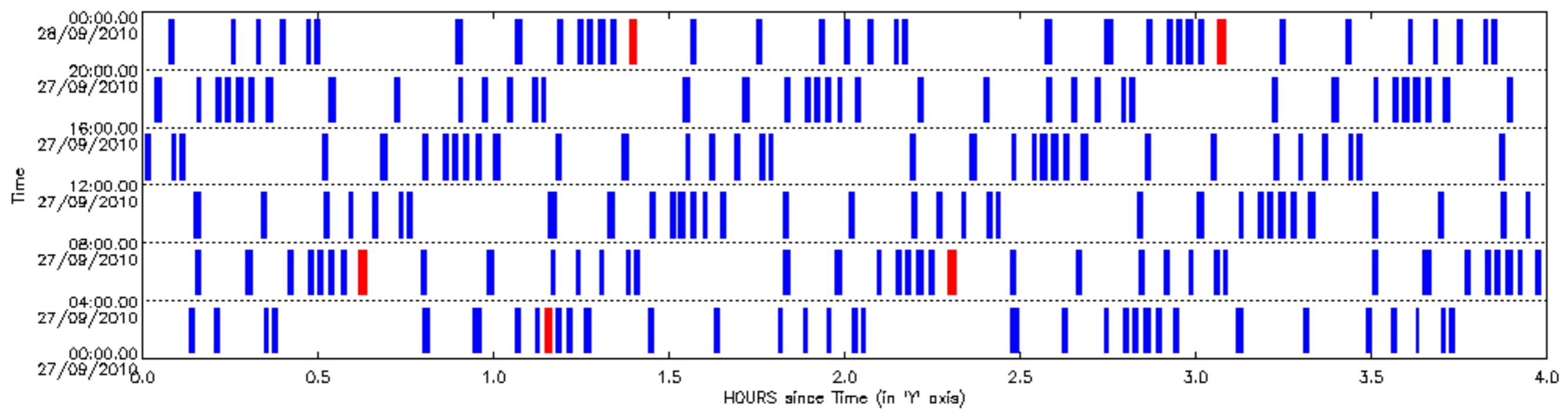
Lower curve: STD of SATU X axis

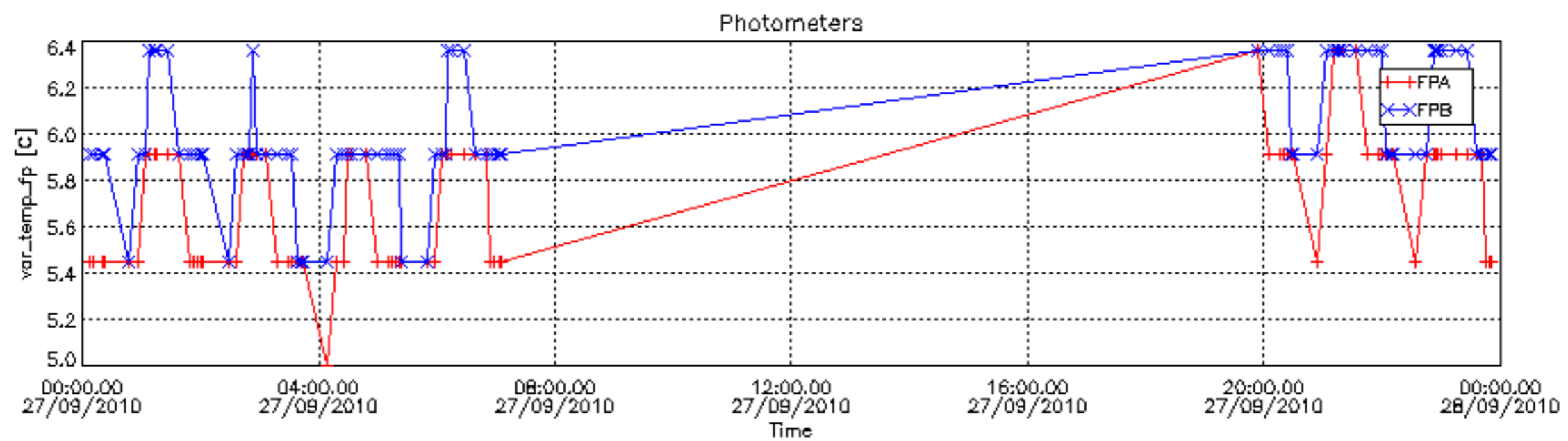
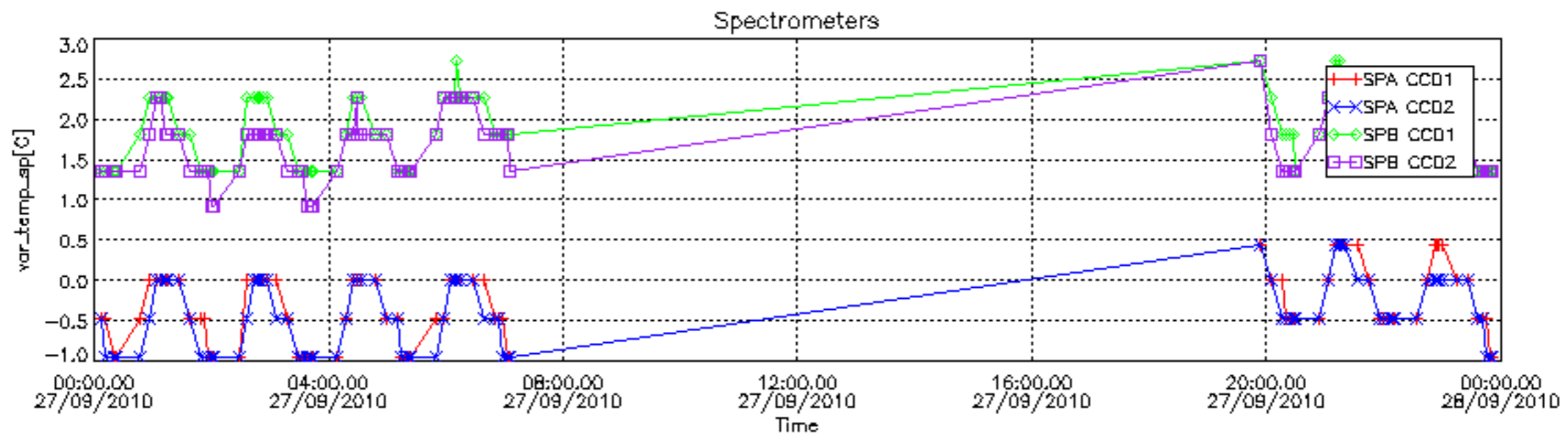


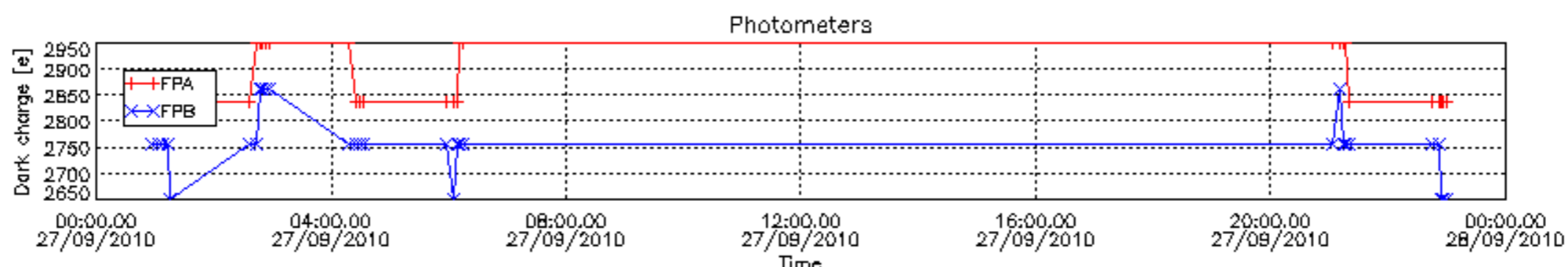
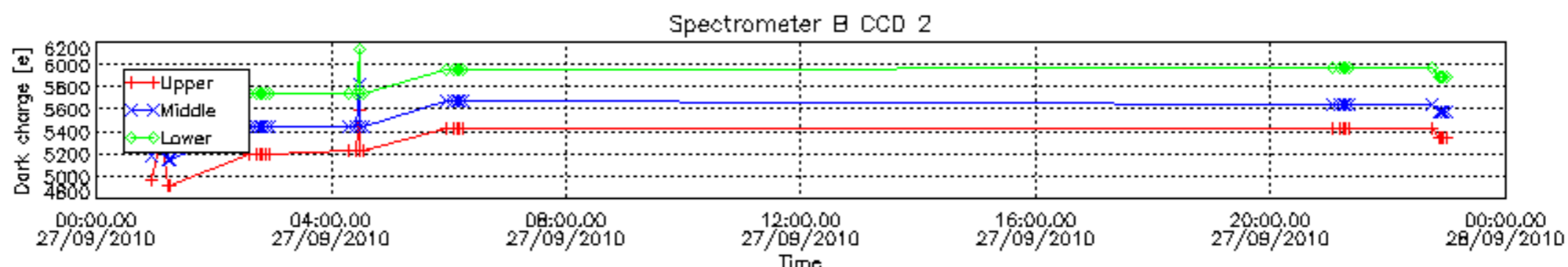
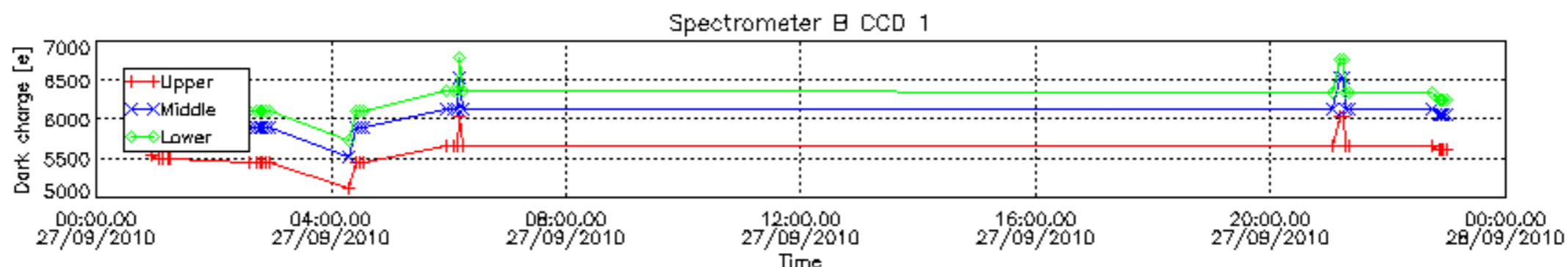
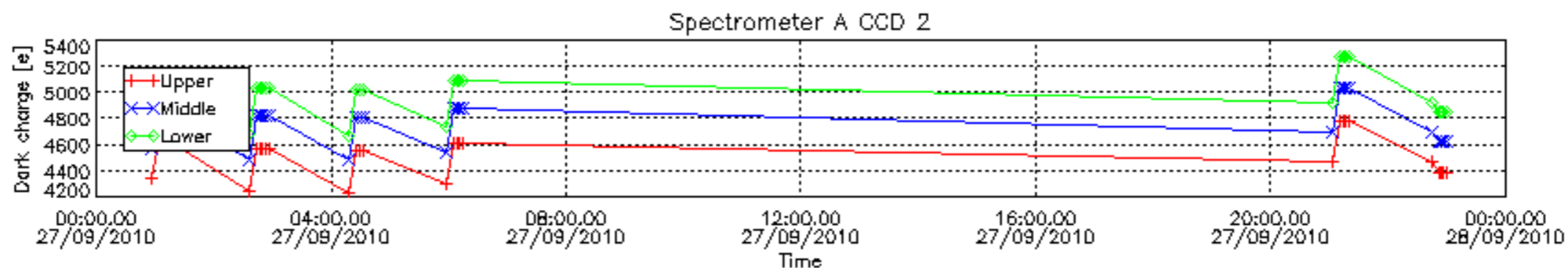
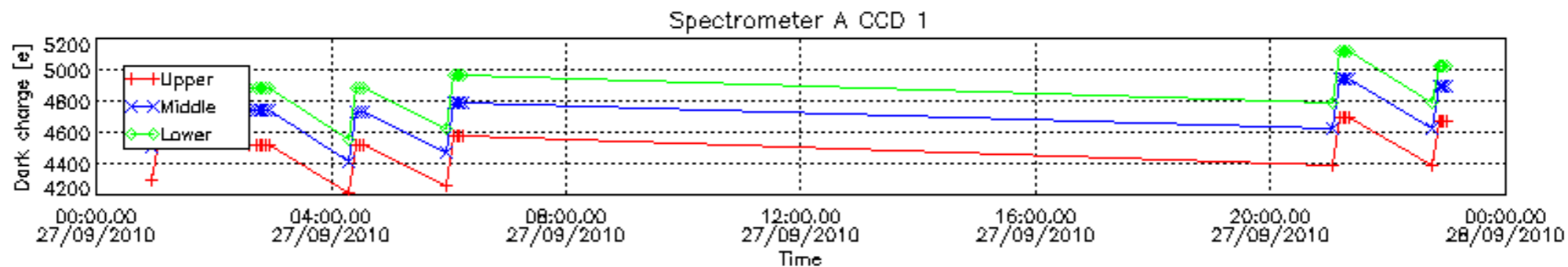
### 8. Auxiliary Data Files used for the production reported in section 2.4

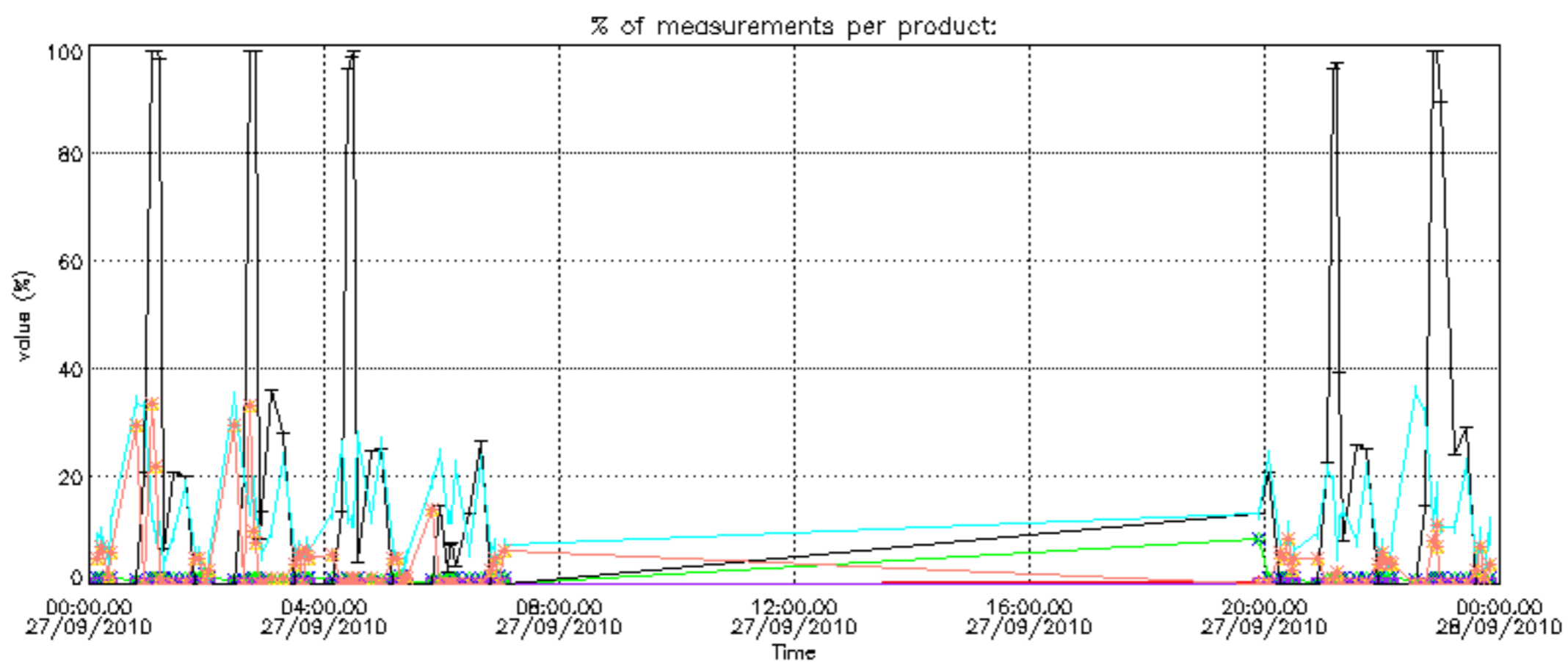
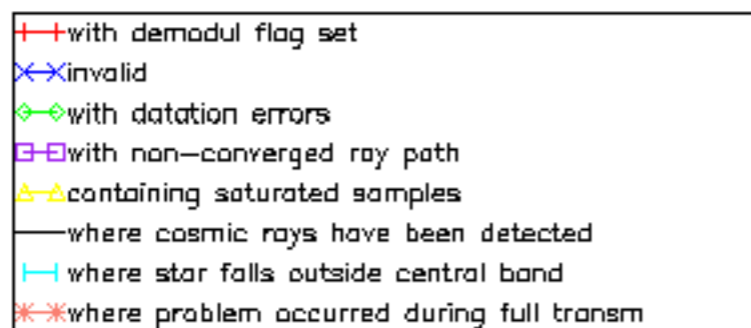
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	27-SEP-2010 00:07:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100923_133008_20100922_000000_20500101_000000	1	27-SEP-2010 00:07:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	27-SEP-2010 00:07:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-SEP-2010 00:07:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	27-SEP-2010 00:07:59
ECMWF_FILE	AUX_ECF_AXNECM20100926_054113_20100926_210000_20100927_090000	1	27-SEP-2010 00:07:59
ECMWF_FILE	AUX_ECF_AXNECM20100926_172114_20100927_030000_20100927_150000	30	27-SEP-2010 03:41:58
ECMWF_FILE	AUX_ECA_AXNECM20100927_052114_20100926_210000_20100927_090000	45	27-SEP-2010 05:49:32
ECMWF_FILE	AUX_ECA_AXNECM20100927_172126_20100927_090000_20100927_210000	58	27-SEP-2010 19:53:06
ECMWF_FILE	AUX_ECF_AXNECM20100927_054119_20100927_210000_20100928_090000	66	27-SEP-2010 21:03:46
OPTIONAL_ECMWF_FILE	MISSING	1	27-SEP-2010 00:07:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100926_231456_000057382093_00187_44830_1144.N1	1	27-SEP-2010 00:07:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100927_005553_000092452093_00188_44831_1145.N1	7	27-SEP-2010 01:03:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100927_033516_000066952093_00190_44833_1146.N1	30	27-SEP-2010 03:41:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100927_053210_000057382093_00191_44834_1147.N1	45	27-SEP-2010 05:49:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100927_195253_000035072093_00200_44843_1148.N1	58	27-SEP-2010 19:53:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100927_205639_000060572093_00200_44843_1149.N1	66	27-SEP-2010 21:03:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100927_224255_000060572093_00201_44844_1150.N1	80	27-SEP-2010 22:51:34



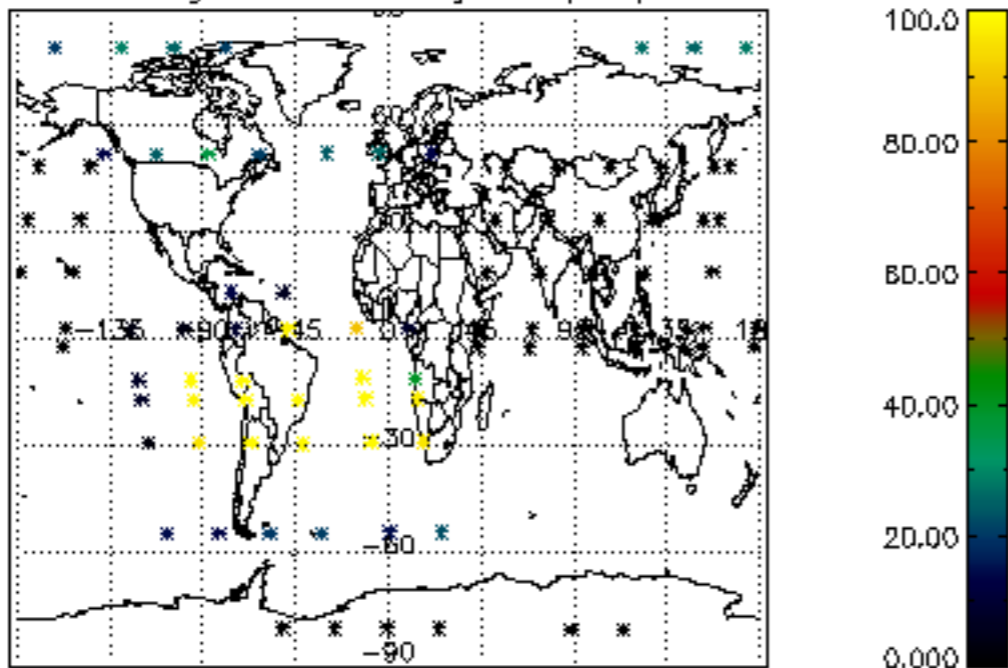




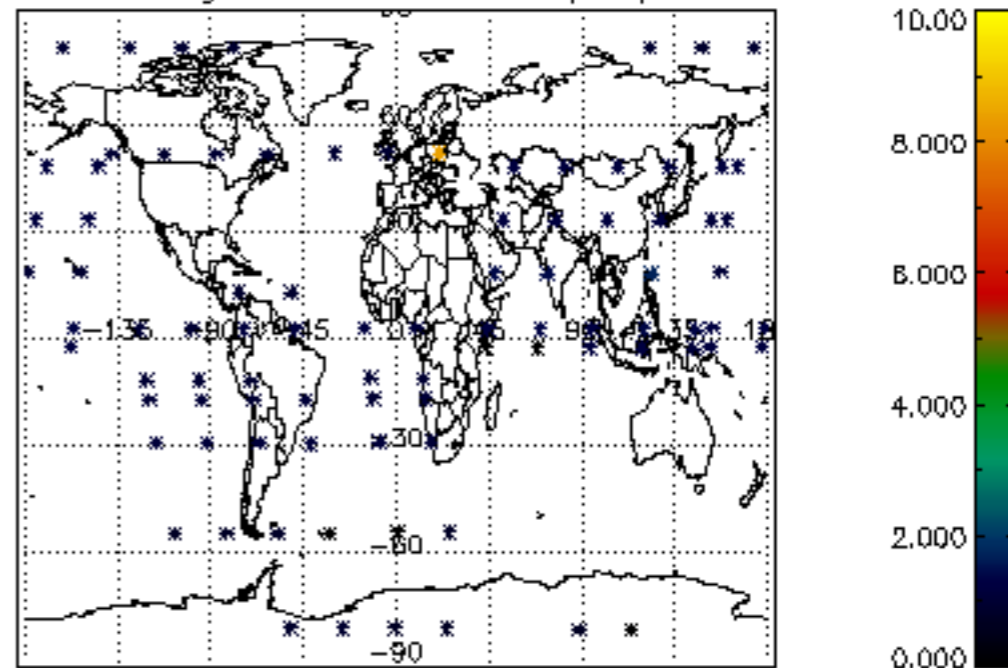




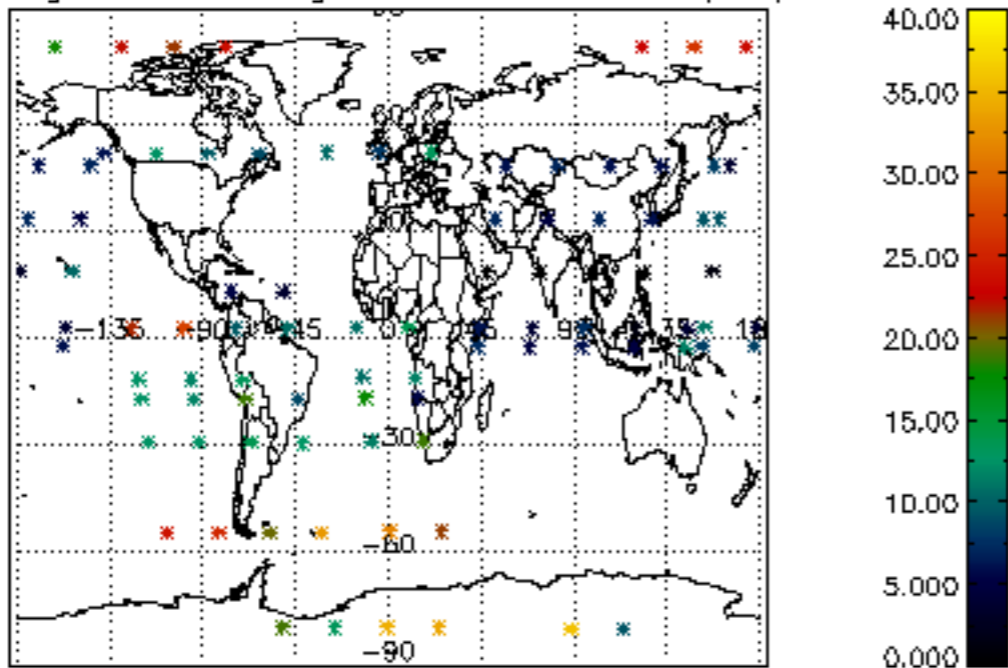
Percentage of cosmic ray hits per profile



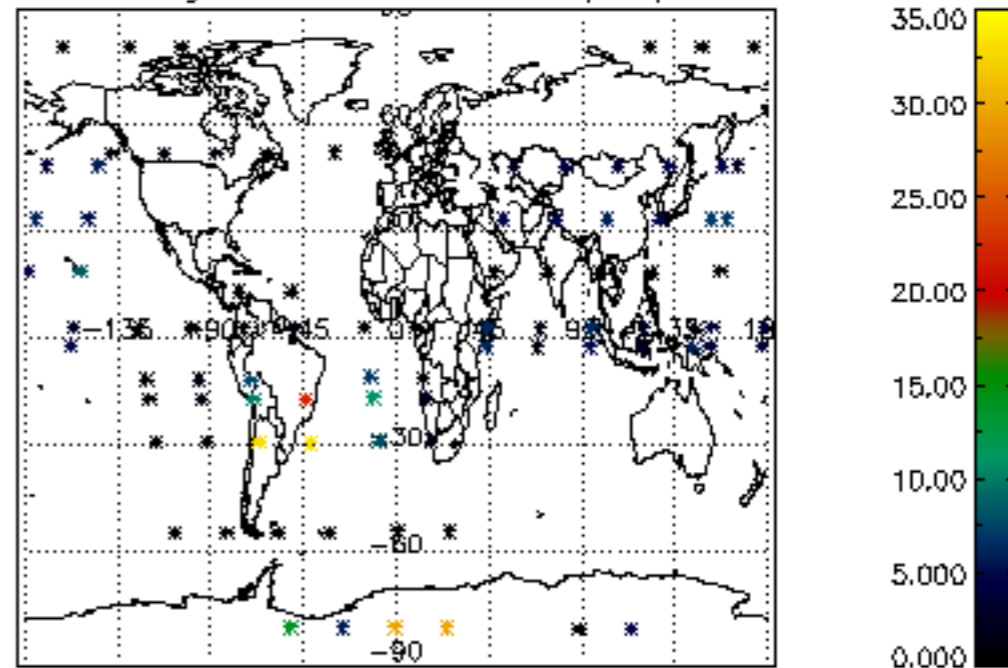
Percentage of datation errors per profile



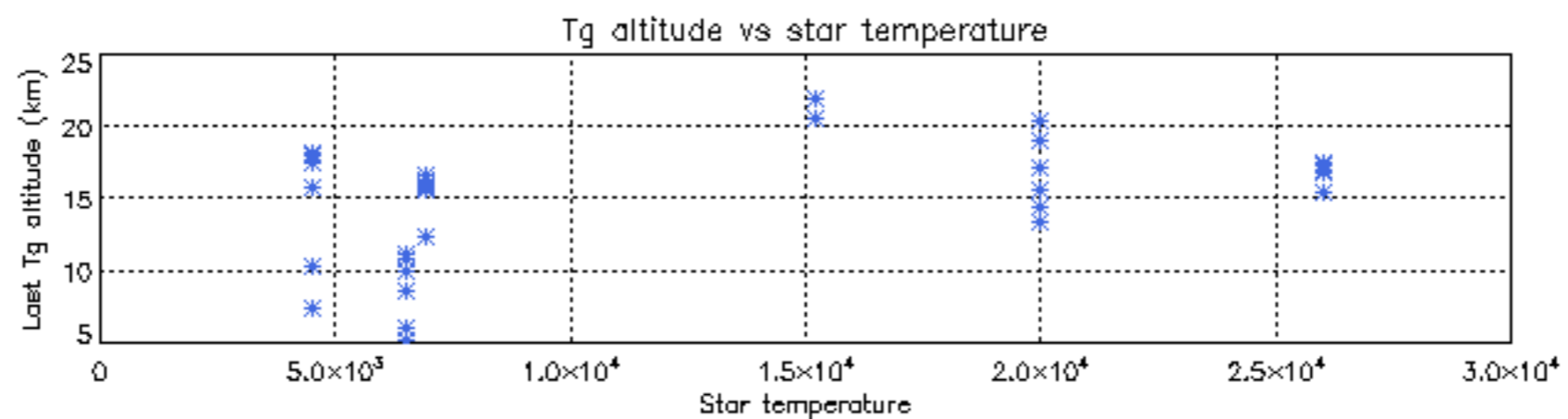
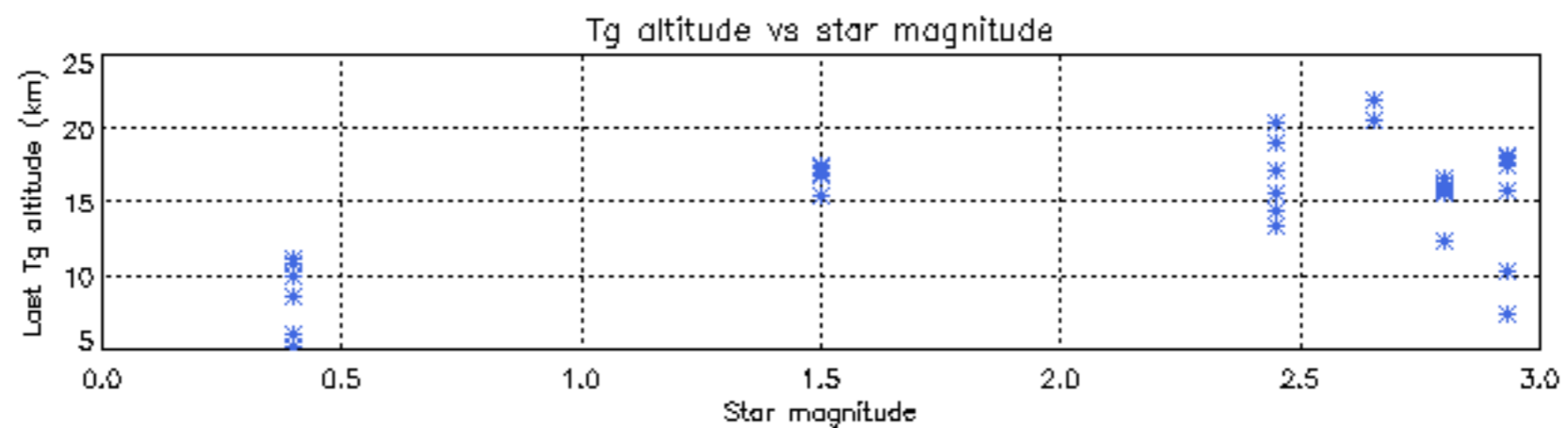
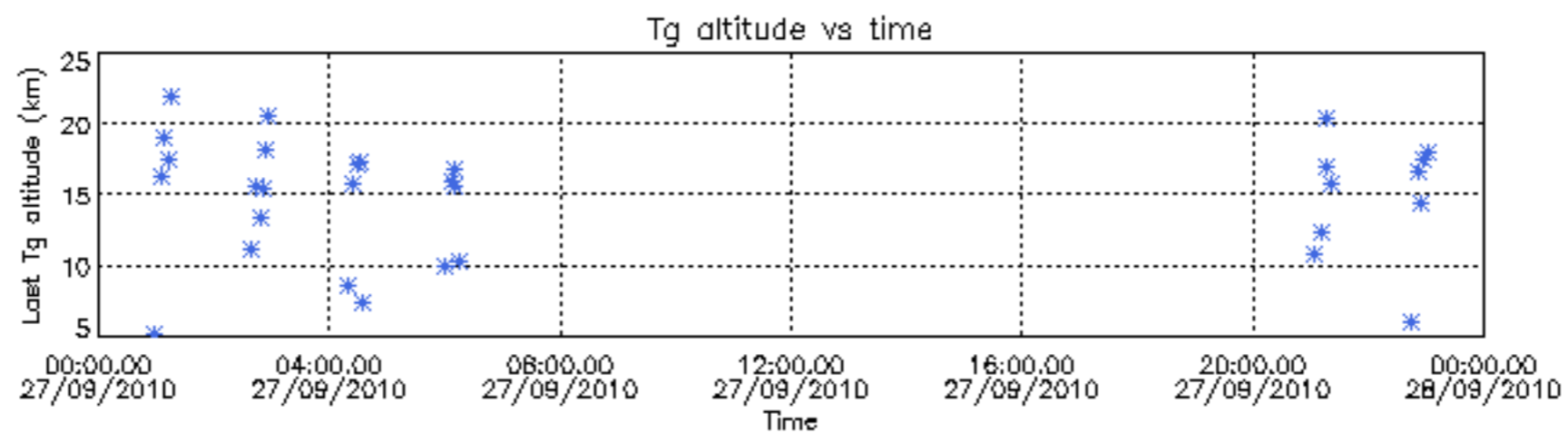
Percentage of star falling outside central band per profile



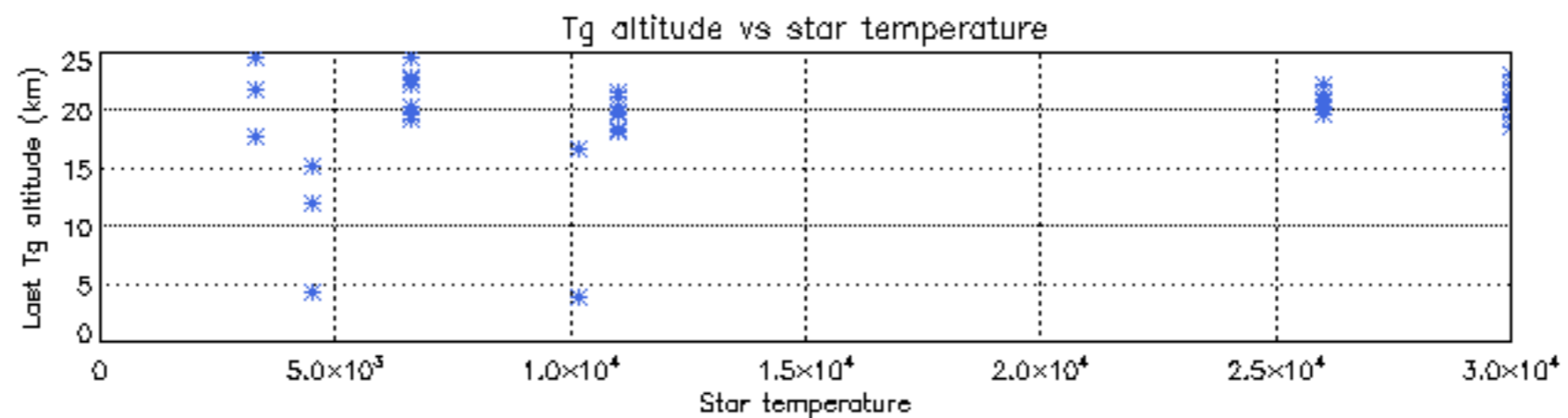
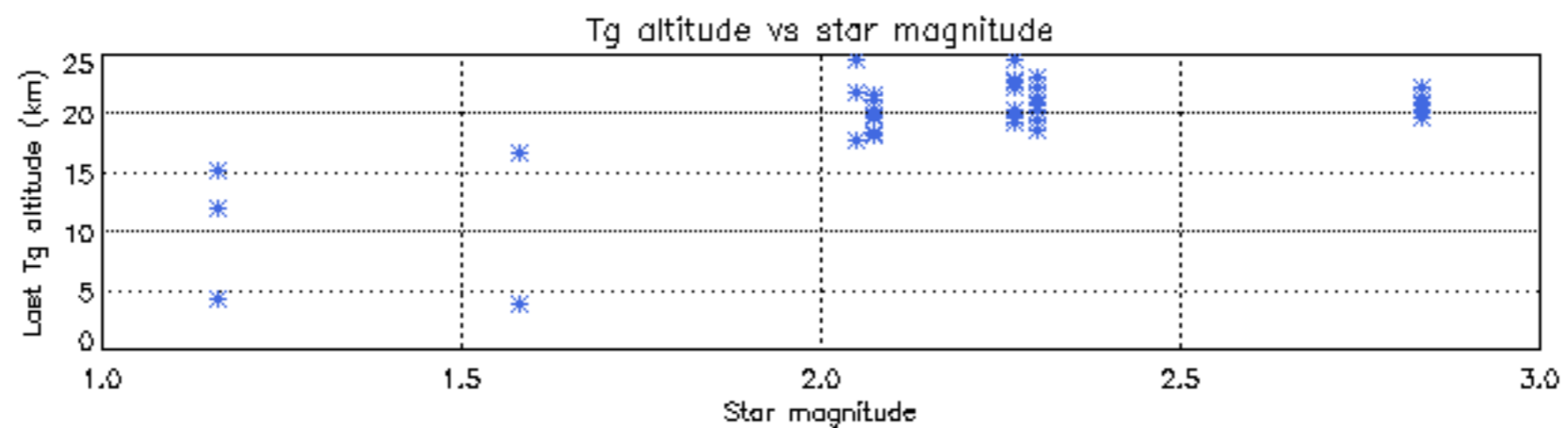
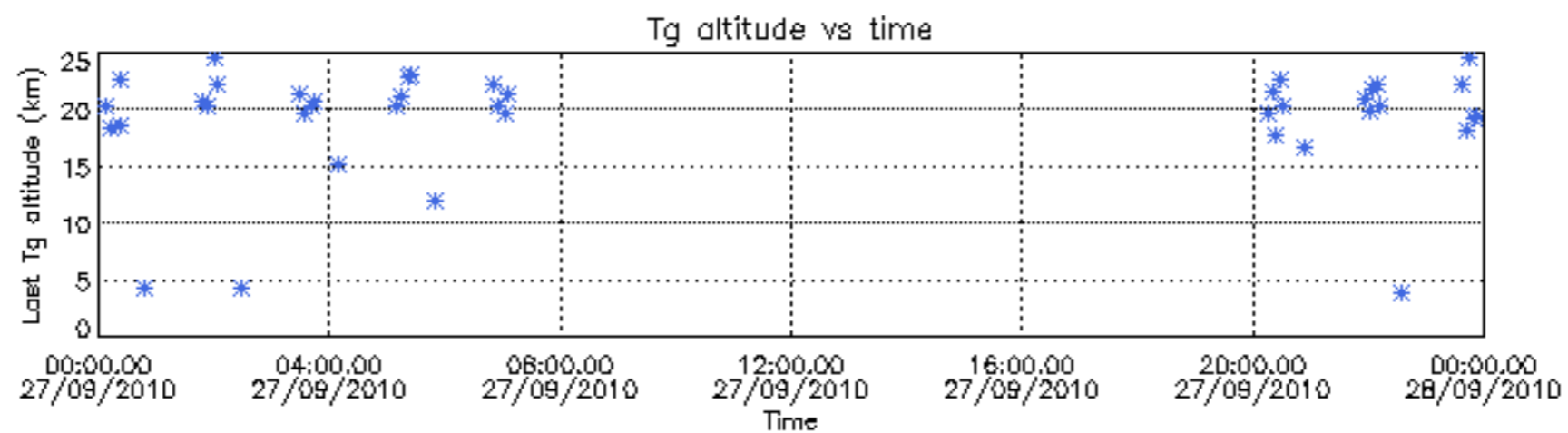
Percentage of saturation errors per profile

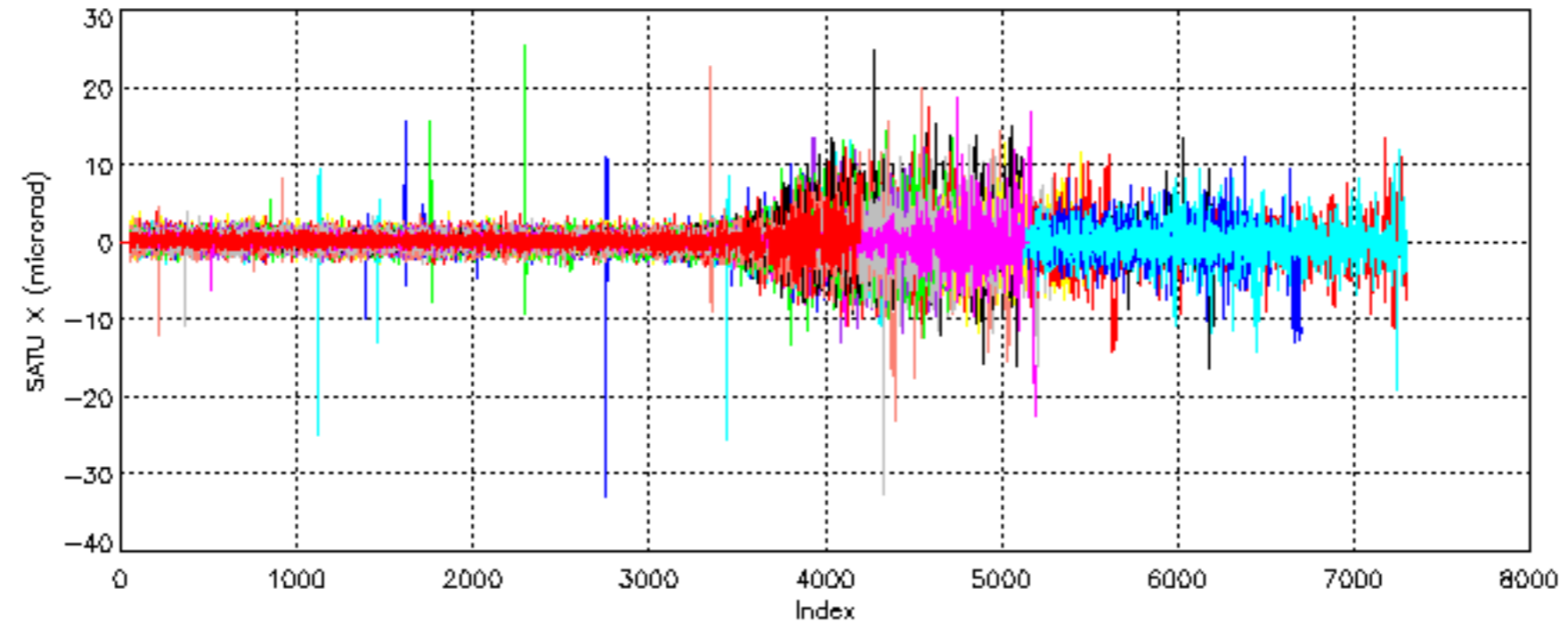


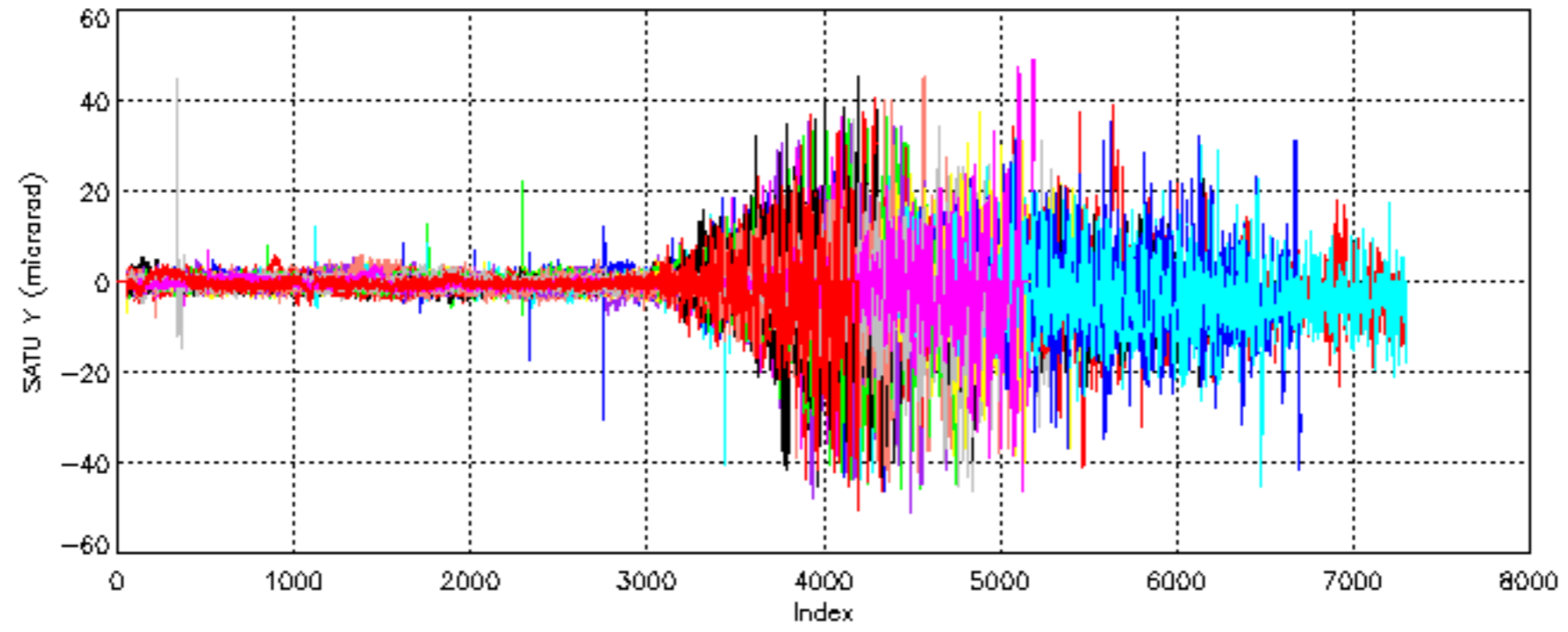
Tangent altitude at which the star is lost

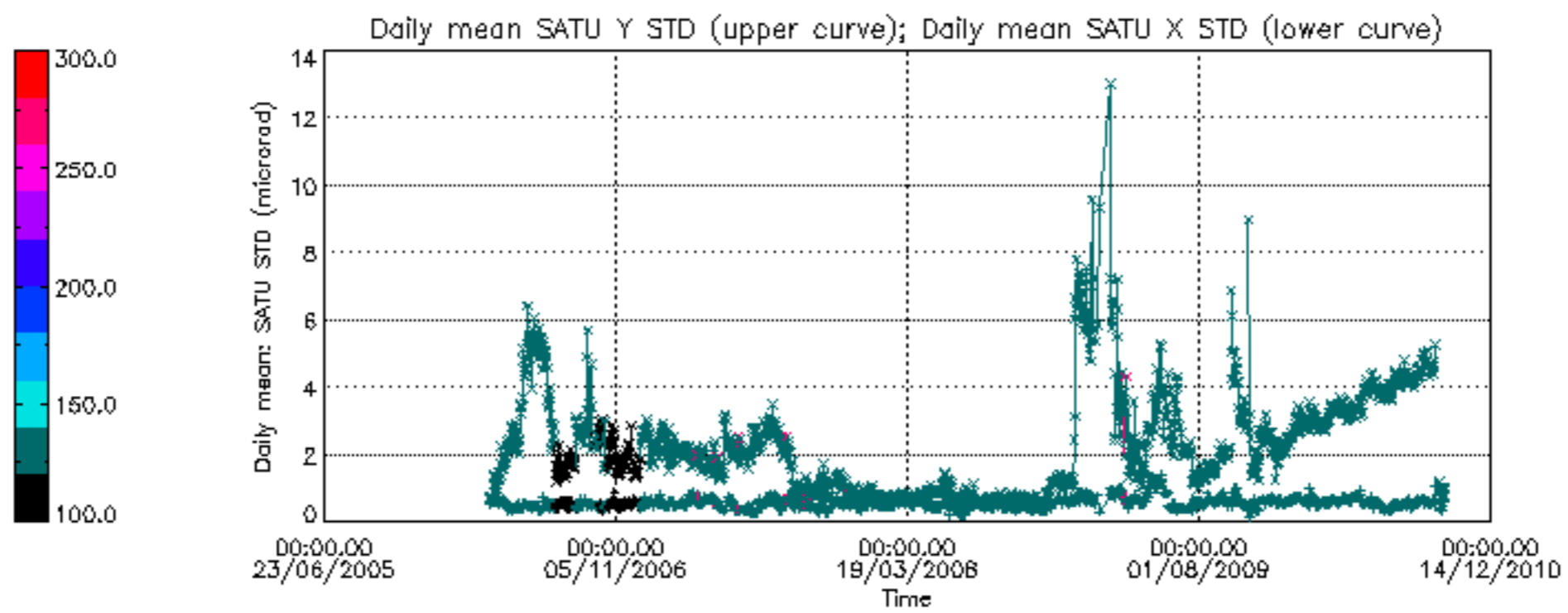


Tangent altitude at which the star is lost









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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100901_011807_000013212092_00317_44459_0811.N1
 1; -664.1; 01-SEP-2010 01:18:07; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;44459
 2; -498.0; 01-SEP-2010 01:20:53; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;44459
 3; -356.2; 01-SEP-2010 01:23:15; Dark ; 58.5; 139; 9Bet Lep ; 2.83; 5600;occ; 117; 0;44459
 4; -241.6; 01-SEP-2010 01:25:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44459
 5; 525.7; 01-SEP-2010 01:37:57; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;44460
 6; 602.5; 01-SEP-2010 01:39:14; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;44460
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100901_011807_000092462092_00317_44459_0808.N1
 1; -664.1; 01-SEP-2010 01:18:07; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;44459
 2; -498.0; 01-SEP-2010 01:20:53; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;44459
 3; -356.2; 01-SEP-2010 01:23:15; Dark ; 58.5; 139; 9Bet Lep ; 2.83; 5600;occ; 117; 0;44459
 4; -241.6; 01-SEP-2010 01:25:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44459
 5; 525.7; 01-SEP-2010 01:37:57; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;44460
 6; 602.5; 01-SEP-2010 01:39:14; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;44460
 7; 960.0; 01-SEP-2010 01:45:11; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;44460
 8; 1328.3; 01-SEP-2010 01:51:20; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;44460
 9; 1895.5; 01-SEP-2010 02:00:47; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;44460
10; 2075.4; 01-SEP-2010 02:03:47; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;44460
11; 2502.6; 01-SEP-2010 02:10:54; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;44460
12; 2975.7; 01-SEP-2010 02:18:47; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;44460
13; 3144.6; 01-SEP-2010 02:21:36; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;44460
14; 3273.1; 01-SEP-2010 02:23:44; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44460
15; 4208.2; 01-SEP-2010 02:39:19; Bright; 47.5; 42; 34Bet Aur ; 1.90; 10200;occ; 95; 0;44460
16; 4451.8; 01-SEP-2010 02:43:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;44460
17; 4685.8; 01-SEP-2010 02:47:17; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;44460
18; 4791.2; 01-SEP-2010 02:49:02; Dark ; 51.5; 44; 24Gam Gem ; 1.93; 11000;occ; 103; 0;44460
19; 4913.8; 01-SEP-2010 02:51:05; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;44460
20; 5372.6; 01-SEP-2010 02:58:44; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;44460
21; 5538.4; 01-SEP-2010 03:01:30; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;44460
22; 5680.7; 01-SEP-2010 03:03:52; Dark ; 52.0; 139; 9Bet Lep ; 2.83; 5600;occ; 104; 0;44460
23; 5795.5; 01-SEP-2010 03:05:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44460
24; 6562.2; 01-SEP-2010 03:18:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44461
25; 6638.7; 01-SEP-2010 03:19:50; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44461
26; 6996.5; 01-SEP-2010 03:25:48; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;44461
27; 7364.8; 01-SEP-2010 03:31:56; Dark ; 50.0; 18; 24Alp PsA ; 1.17; 9700;occ; 100; 0;44461
28; 7931.4; 01-SEP-2010 03:41:23; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;44461
29; 8111.5; 01-SEP-2010 03:44:23; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;44461
30; 8537.9; 01-SEP-2010 03:51:29; Bright; 45.0; 164; 44Eta Peg ; 2.95; 5400;occ; 90; 0;44461
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 1; 960.5; 01-SEP-2010 01:45:12; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 1;44460
 2; 1328.3; 01-SEP-2010 01:51:20; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;44460
 3; 1895.5; 01-SEP-2010 02:00:47; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;44460
 4; 2075.4; 01-SEP-2010 02:03:47; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;44460
 5; 2502.6; 01-SEP-2010 02:10:54; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;44460
 6; 2975.7; 01-SEP-2010 02:18:47; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;44460
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6; 667.6; 08-SEP-2010 21:27:22; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;44572
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 16; 6702.8; 08-SEP-2010 18:06:10; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;44570  
 17; 7055.5; 08-SEP-2010 18:12:02; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;44570

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 2; 2205.1; 08-SEP-2010 18:31:48; Bright; 45.0; 90; 54Alp Peg ; 2.49; 11000;occ; 90; 0;44570  
 3; 2458.6; 08-SEP-2010 18:36:02; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;44570  
 4; 3080.1; 08-SEP-2010 18:46:23; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;44570  
 5; 3199.1; 08-SEP-2010 18:48:22; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;44570  
 6; 4191.3; 08-SEP-2010 19:04:54; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;44570  
 7; 4467.1; 08-SEP-2010 19:09:30; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;44570  
 8; 4640.0; 08-SEP-2010 19:12:23; Dark ; 52.5; 170; 27Eps Gem ; 3.00; 9700;occ; 105; 0;44570  
 9; 4840.9; 08-SEP-2010 19:15:44; Dark ; 57.0; 44; 24Gam Gem ; 1.93; 11000;occ; 114; 0;44570  
 10; 4953.2; 08-SEP-2010 19:17:36; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;44570  
 11; 5450.6; 08-SEP-2010 19:25:54; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;44570  
 12; 5602.7; 08-SEP-2010 19:28:26; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;44570  
 13; 5725.9; 08-SEP-2010 19:30:29; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44570  
 14; 5814.1; 08-SEP-2010 19:31:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44570  
 15; 5918.3; 08-SEP-2010 19:33:41; Dark ; 49.0; 108; Alp Col ; 2.65; 15200;occ; 98; 0;44570  
 16; 6703.4; 08-SEP-2010 19:46:46; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;44571

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 2; -431.2; 09-SEP-2010 00:30:15; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;44573  
 3; -219.5; 09-SEP-2010 00:33:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44573  
 4; 669.1; 09-SEP-2010 00:48:36; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;44574  
 5; 1021.3; 09-SEP-2010 00:54:28; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;44574  
 6; 1357.6; 09-SEP-2010 01:00:04; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;44574  
 7; 2203.8; 09-SEP-2010 01:14:10; Bright; 45.0; 90; 54Alp Peg ; 2.49; 11000;occ; 90; 0;44574  
 8; 2457.2; 09-SEP-2010 01:18:24; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;44574  
 9; 3077.9; 09-SEP-2010 01:28:44; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44574  
 10; 3196.5; 09-SEP-2010 01:30:43; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;44574  
 11; 4190.4; 09-SEP-2010 01:47:17; Bright; 49.5; 42; 34Bet Aur ; 1.90; 10200;occ; 99; 0;44574  
 12; 4467.5; 09-SEP-2010 01:51:54; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;44574  
 13; 4641.0; 09-SEP-2010 01:54:48; Dark ; 54.5; 170; 27Eps Gem ; 3.00; 9700;occ; 109; 0;44574  
 14; 4843.0; 09-SEP-2010 01:58:10; Dark ; 55.0; 44; 24Gam Gem ; 1.93; 11000;occ; 110; 0;44574  
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 4; 669.4; 09-SEP-2010 02:29:12; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;44575

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6; 1357.8; 09-SEP-2010 02:40:40; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;44575
7; 2203.3; 09-SEP-2010 02:54:46; Bright; 44.0; 90; 54Alp Peg ; 2.49; 11000;occ; 88; 0;44575
8; 2457.2; 09-SEP-2010 02:59:00; Bright; 42.5; 164; 44Eta Peg ; 2.95; 5400;occ; 85; 0;44575
9; 3077.3; 09-SEP-2010 03:09:20; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;44575
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2; -1568.3; 09-SEP-2010 03:32:30; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;44575
3; -1394.5; 09-SEP-2010 03:35:24; Dark ; 56.5; 170; 27Eps Gem ; 3.00; 9700;occ; 113; 0;44575
4; -1192.4; 09-SEP-2010 03:38:46; Dark ; 55.0; 44; 24Gam Gem ; 1.93; 11000;occ; 110; 0;44575
5; -1080.9; 09-SEP-2010 03:40:37; Dark ; 58.0; 8; 10Alp CMi ; 0.40; 6500;occ; 116; 0;44575
6; -581.3; 09-SEP-2010 03:48:57; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;44575
7; -430.0; 09-SEP-2010 03:51:28; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;44575
8; -306.0; 09-SEP-2010 03:53:32; Dark ; 45.5; 177; 1Zet CMA ; 3.02; 26000;occ; 91; 0;44575
9; -217.9; 09-SEP-2010 03:55:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44575
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11; 670.4; 09-SEP-2010 04:09:49; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44576
12; 1022.6; 09-SEP-2010 04:15:41; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44576
13; 1358.2; 09-SEP-2010 04:21:17; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;44576
14; 2203.6; 09-SEP-2010 04:35:22; Bright; 42.5; 90; 54Alp Peg ; 2.49; 11000;occ; 85; 0;44576
15; 2456.9; 09-SEP-2010 04:39:35; Bright; 40.0; 164; 44Eta Peg ; 2.95; 5400;occ; 80; 0;44576
16; 3076.7; 09-SEP-2010 04:49:55; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44576
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3; -1394.3; 09-SEP-2010 05:16:00; Dark ; 51.5; 170; 27Eps Gem ; 3.00; 9700;occ; 103; 0;44576
4; -1192.0; 09-SEP-2010 05:19:22; Dark ; 56.5; 44; 24Gam Gem ; 1.93; 11000;occ; 113; 0;44576
5; -1080.4; 09-SEP-2010 05:21:14; Dark ; 55.5; 8; 10Alp CMi ; 0.40; 6500;occ; 111; 0;44576
6; -580.5; 09-SEP-2010 05:29:34; Dark ; 60.5; 1; 9Alp CMA ; -1.44; 11000;occ; 121; 0;44576
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8; -305.1; 09-SEP-2010 05:34:09; Dark ; 44.0; 177; 1Zet CMA ; 3.02; 26000;occ; 88; 0;44576
9; -217.1; 09-SEP-2010 05:35:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44576
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13; 1358.4; 09-SEP-2010 06:01:53; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;44577
14; 2203.0; 09-SEP-2010 06:15:57; Bright; 43.0; 90; 54Alp Peg ; 2.49; 11000;occ; 86; 0;44577
15; 2456.9; 09-SEP-2010 06:20:11; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;44577
16; 3076.2; 09-SEP-2010 06:30:31; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;44577
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2; 4377.8; 09-SEP-2010 21:57:36; Bright; 57.0; 107; 37The Aur ; 2.65; 11000;occ; 114; 0;44586
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3; 4377.7; 09-SEP-2010 23:38:11; Bright; 55.0; 107; 37The Aur ; 2.65; 11000;occ; 110; 0;44587
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3; -1393.9; 09-SEP-2010 06:56:36; Dark ; 55.0; 170; 27Eps Gem ; 3.00; 9700;occ; 110; 0;44577
4; -1191.4; 09-SEP-2010 06:59:59; Dark ; 54.0; 44; 24Gam Gem ; 1.93; 11000;occ; 108; 0;44577
5; -1080.2; 09-SEP-2010 07:01:50; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;44577
6; -579.6; 09-SEP-2010 07:10:11; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;44577
7; -428.5; 09-SEP-2010 07:12:42; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;44577
8; -304.0; 09-SEP-2010 07:14:46; Dark ; 45.5; 177; 1Zet CMA ; 3.02; 26000;occ; 91; 0;44577
9; -216.3; 09-SEP-2010 07:16:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44577
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7; 4642.3; 09-SEP-2010 08:37:13; Dark ; 52.5; 170; 27Eps Gem ; 3.00; 9700;occ; 105; 0;44578
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9; 4956.2; 09-SEP-2010 08:42:27; Dark ; 49.5; 8; 10Alp CMi ; 0.40; 6500;occ; 99; 0;44578
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12; 5732.9; 09-SEP-2010 08:55:23; Dark ; 46.5; 177; 1Zet CMA ; 3.02; 26000;occ; 93; 0;44578
13; 5820.5; 09-SEP-2010 08:56:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44578
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2; 2615.4; 09-SEP-2010 11:24:38; Bright; 51.5; 58; 21Alp And ; 2.07; 11000;occ; 103; 0;44580
3; 3015.7; 09-SEP-2010 11:31:18; Bright; 72.5; 53; 43Bet And ; 2.05; 3300;occ; 145; 0;44580
4; 3260.5; 09-SEP-2010 11:35:23; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 0;44580
5; 3391.3; 09-SEP-2010 11:37:33; Bright; 77.5; 73; 57Gam1And ; 2.26; 13100;occ; 155; 0;44580
6; 3593.4; 09-SEP-2010 11:40:55; Bright; 58.0; 160; 23Gam Per ; 2.93; 4700;occ; 116; 0;44580
7; 3719.8; 09-SEP-2010 11:43:02; Bright; 68.5; 35; 33Alp Per ; 1.79; 6250;occ; 137; 0;44580
8; 3834.2; 09-SEP-2010 11:44:56; Bright; 68.0; 175; 39Del Per ; 3.01; 19400;occ; 136; 0;44580
9; 4118.1; 09-SEP-2010 11:49:40; Bright; 65.0; 6; 13Alp Aur ; 0.08; 3400;occ; 130; 0;44580
10; 4378.0; 09-SEP-2010 11:54:00; Bright; 78.0; 107; 37The Aur ; 2.65; 11000;occ; 156; 0;44580
11; 4649.8; 09-SEP-2010 11:58:32; Dark ; 81.5; 28; 12Bet Tau ; 1.65; 15200;occ; 163; 0;44580
12; 4846.3; 09-SEP-2010 12:01:48; Dark ; 56.5; 44; 24Gam Gem ; 1.93; 11000;occ; 113; 0;44580
13; 5189.9; 09-SEP-2010 12:07:32; Dark ; 100.0; 14; 58Alp Ori ; 0.87; 3000;occ; 200; 0;44580
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3; 3589.5; 09-SEP-2010 18:23:15; Bright; 59.5; 160; 23Gam Per ; 2.93; 4700;occ; 119; 0;44584
4; 4116.7; 09-SEP-2010 18:32:03; Bright; 61.0; 6; 13Alp Aur ; 0.08; 3400;occ; 122; 0;44584
5; 4378.0; 09-SEP-2010 18:36:24; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98; 0;44584
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3; 4116.1; 09-SEP-2010 20:12:38; Bright; 68.0; 6; 13Alp Aur ; 0.08; 3400;occ; 136; 0;44585
4; 4377.8; 09-SEP-2010 20:17:00; Bright; 54.0; 107; 37The Aur ; 2.65; 11000;occ; 108; 0;44585
5; 5955.8; 09-SEP-2010 20:43:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44585
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3; 4114.8; 10-SEP-2010 01:14:24; Bright; 68.5; 6; 13Alp Aur ; 0.08; 3400;occ; 137; 0;44588
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3; 3704.6; 10-SEP-2010 11:11:10; Bright; 66.0; 35; 33Alp Per ; 1.79; 6250;occ; 132; 0;44594
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3; 2177.8; 16-SEP-2010 21:00:48; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;44686
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5; 2530.2; 16-SEP-2010 21:06:40; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44686
6; 3023.0; 16-SEP-2010 21:14:53; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44686
7; 3129.8; 16-SEP-2010 21:16:40; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;44686
8; 4482.9; 16-SEP-2010 21:39:13; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44686
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6; 643.1; 16-SEP-2010 22:15:49; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;44687
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 4; 3133.0; 16-SEP-2010 11:13:07; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;44680
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14; 6762.4; 16-SEP-2010 13:54:12; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;44682
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14; 6677.2; 16-SEP-2010 15:33:23; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44683
15; 6762.9; 16-SEP-2010 15:34:49; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44683
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16; 7106.7; 16-SEP-2010 17:21:09; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;44684
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6; 2988.5; 22-SEP-2010 21:25:47; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;44772
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6; 769.5; 22-SEP-2010 22:29:24; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;44773
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8; 1541.1; 22-SEP-2010 22:42:16; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;44773
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13; 3083.7; 23-SEP-2010 00:48:34; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44774
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3; 2484.9; 22-SEP-2010 07:52:36; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;44764
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6; 4493.6; 22-SEP-2010 08:26:05; Bright; 56.5; 24; 66Alp Gem ; 1.58; 10200;occ; 113; 0;44764
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5; 3088.1; 22-SEP-2010 09:43:15; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44765
6; 4493.7; 22-SEP-2010 10:06:41; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;44765
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8; 5496.9; 22-SEP-2010 10:23:24; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;44765
9; 5695.3; 22-SEP-2010 10:26:43; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44765
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11; 5993.3; 22-SEP-2010 10:31:40; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44765
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4; 2990.7; 22-SEP-2010 11:22:14; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44766
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5; 3087.0; 22-SEP-2010 13:04:26; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;44767
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9; 5697.3; 22-SEP-2010 13:47:56; Dark ; 51.5; 37; 25Del CMa ; 1.83; 5900;occ; 103; 0;44767
10; 5809.8; 22-SEP-2010 13:49:49; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;44767
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5; 2990.0; 22-SEP-2010 14:43:25; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;44768
6; 3086.7; 22-SEP-2010 14:45:02; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44768
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13; 5998.6; 22-SEP-2010 18:54:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44770
14; 6119.9; 22-SEP-2010 18:56:47; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;44771
15; 6804.7; 22-SEP-2010 19:08:11; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;44771
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 1; 1103.2; 22-SEP-2010 19:13:46; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44771
 2; 1540.7; 22-SEP-2010 19:21:03; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;44771
 3; 2168.5; 22-SEP-2010 19:31:31; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;44771
 4; 2393.5; 22-SEP-2010 19:35:16; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44771
 5; 2481.4; 22-SEP-2010 19:36:44; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;44771
 6; 2988.9; 22-SEP-2010 19:45:12; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44771
 7; 3085.1; 22-SEP-2010 19:46:48; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;44771
 8; 4494.6; 22-SEP-2010 20:10:17; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;44771
 9; 5060.7; 22-SEP-2010 20:19:43; Dark ; 55.0; 8; 10Alp CMI ; 0.40; 6500;occ; 110; 0;44771
10; 5500.6; 22-SEP-2010 20:27:03; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;44771
11; 5701.2; 22-SEP-2010 20:30:24; Dark ; 56.5; 37; 25Del CMA ; 1.83; 5900;occ; 113; 0;44771
12; 5812.7; 22-SEP-2010 20:32:16; Dark ; 52.5; 117; Pi Pup ; 2.71; 3800;occ; 105; 0;44771
13; 5999.6; 22-SEP-2010 20:35:22; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44771
14; 6120.3; 22-SEP-2010 20:37:23; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;44772
15; 6805.0; 22-SEP-2010 20:48:48; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;44772
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 2; -331.8; 23-SEP-2010 01:32:14; Dark ; 51.5; 37; 25Del CMA ; 1.83; 5900;occ; 103; 0;44774
 3; -220.7; 23-SEP-2010 01:34:06; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;44774
 4; -33.2; 23-SEP-2010 01:37:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44774
 5; 86.6; 23-SEP-2010 01:39:13; Dark ; 56.5; 2; Alp Car ; -0.74; 7000;occ; 113; 0;44775
 6; 770.4; 23-SEP-2010 01:50:37; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;44775
 7; 1104.5; 23-SEP-2010 01:56:11; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;44775
 8; 1541.3; 23-SEP-2010 02:03:28; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44775
 9; 2167.9; 23-SEP-2010 02:13:54; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44775
10; 2392.9; 23-SEP-2010 02:17:39; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;44775
11; 2479.5; 23-SEP-2010 02:19:06; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;44775
12; 2987.5; 23-SEP-2010 02:27:34; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44775
13; 3083.1; 23-SEP-2010 02:29:09; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44775
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 2; -972.4; 23-SEP-2010 03:02:10; Dark ; 60.0; 8; 10Alp CMI ; 0.40; 6500;occ; 120; 0;44775
 3; -532.8; 23-SEP-2010 03:09:29; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;44775
 4; -330.9; 23-SEP-2010 03:12:51; Dark ; 49.0; 37; 25Del CMA ; 1.83; 5900;occ; 98; 0;44775
 5; -219.9; 23-SEP-2010 03:14:42; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;44775
 6; -32.1; 23-SEP-2010 03:17:50; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44775
 7; 87.3; 23-SEP-2010 03:19:49; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44776
 8; 771.0; 23-SEP-2010 03:31:13; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44776
 9; 1105.0; 23-SEP-2010 03:36:47; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44776
10; 1541.6; 23-SEP-2010 03:44:04; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;44776
11; 2168.1; 23-SEP-2010 03:54:30; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;44776
12; 2392.9; 23-SEP-2010 03:58:15; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;44776
13; 2479.0; 23-SEP-2010 03:59:41; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;44776
14; 2987.2; 23-SEP-2010 04:08:09; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44776
15; 3082.9; 23-SEP-2010 04:09:45; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44776
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 2; -971.8; 23-SEP-2010 04:42:46; Dark ; 60.5; 8; 10Alp CMI ; 0.40; 6500;occ; 121; 0;44776
 3; -532.4; 23-SEP-2010 04:50:06; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44776
 4; -342.5; 23-SEP-2010 04:53:16; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44776
 5; -260.4; 23-SEP-2010 04:54:38; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;44776
 6; -121.5; 23-SEP-2010 04:56:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44776
 7; 5.4; 23-SEP-2010 04:59:04; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;44776
 8; 87.9; 23-SEP-2010 05:00:26; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;44777
 9; 771.5; 23-SEP-2010 05:11:50; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;44777
10; 1105.3; 23-SEP-2010 05:17:23; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;44777
11; 1541.6; 23-SEP-2010 05:24:40; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;44777
12; 2168.0; 23-SEP-2010 05:35:06; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44777
13; 2392.9; 23-SEP-2010 05:38:51; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;44777
14; 2478.6; 23-SEP-2010 05:40:17; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44777
15; 2986.6; 23-SEP-2010 05:48:45; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44777
16; 3082.2; 23-SEP-2010 05:50:20; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44777

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1;	1542.4;	23-SEP-2010	15:28:16;	Dark	;	54.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	108;	0;	44783
2;	2167.7;	23-SEP-2010	15:38:41;	Bright;	;	38.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	77;	0;	44783
3;	2392.2;	23-SEP-2010	15:42:26;	Bright;	;	39.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	79;	0;	44783
4;	2475.7;	23-SEP-2010	15:43:49;	Bright;	;	43.0;	58;	21Alp	And	;	2.07;	11000;	occ;	86;	0;	44783
5;	2984.7;	23-SEP-2010	15:52:18;	Bright;	;	37.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	75;	0;	44783
6;	3079.6;	23-SEP-2010	15:53:53;	Bright;	;	41.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	83;	0;	44783
7;	4496.5;	23-SEP-2010	16:17:30;	Bright;	;	47.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	95;	0;	44783
8;	5069.5;	23-SEP-2010	16:27:03;	Dark	;	69.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	138;	0;	44783
9;	5508.2;	23-SEP-2010	16:34:22;	Dark	;	40.5;	132;	15Rho	Pup	;	2.80;	6900;	occ;	81;	0;	44783
10;	5681.4;	23-SEP-2010	16:37:15;	Dark	;	67.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	134;	0;	44783
11;	5782.9;	23-SEP-2010	16:38:56;	Dark	;	46.5;	23;	21Eps	CMA	;	1.50;	26000;	occ;	93;	0;	44783
12;	5919.0;	23-SEP-2010	16:41:13;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44783
13;	6046.0;	23-SEP-2010	16:43:20;	Dark	;	43.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	86;	0;	44784
14;	6183.2;	23-SEP-2010	16:45:37;	Dark	;	54.0;	108;	Alp	Col	;	2.65;	15200;	occ;	108;	0;	44784
15;	6864.6;	23-SEP-2010	16:56:58;	Dark	;	51.5;	157;	The1Eri		;	2.91;	9300;	occ;	103;	0;	44784
16;	7143.8;	23-SEP-2010	17:01:37;	Dark	;	45.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	90;	0;	44784

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1;	1542.6;	23-SEP-2010	17:08:52;	Dark	;	55.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	110;	0;	44784
2;	2167.8;	23-SEP-2010	17:19:17;	Bright;	;	38.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	76;	0;	44784
3;	2391.8;	23-SEP-2010	17:23:01;	Bright;	;	40.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	81;	0;	44784
4;	2475.3;	23-SEP-2010	17:24:25;	Bright;	;	43.0;	58;	21Alp	And	;	2.07;	11000;	occ;	86;	0;	44784
5;	2984.2;	23-SEP-2010	17:32:54;	Bright;	;	40.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	81;	0;	44784
6;	3079.0;	23-SEP-2010	17:34:29;	Bright;	;	40.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	81;	0;	44784
7;	4496.5;	23-SEP-2010	17:58:06;	Bright;	;	49.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	99;	0;	44784
8;	5070.1;	23-SEP-2010	18:07:40;	Dark	;	63.5;	8;	10Alp	CMI	;	0.40;	6500;	occ;	127;	0;	44784
9;	5508.9;	23-SEP-2010	18:14:58;	Dark	;	42.0;	132;	15Rho	Pup	;	2.80;	6900;	occ;	84;	0;	44784
10;	5682.8;	23-SEP-2010	18:17:52;	Dark	;	61.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	122;	0;	44784
11;	5783.8;	23-SEP-2010	18:19:33;	Dark	;	54.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	108;	0;	44784
12;	5919.7;	23-SEP-2010	18:21:49;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44784
13;	6046.8;	23-SEP-2010	18:23:56;	Dark	;	43.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	86;	0;	44785
14;	6184.6;	23-SEP-2010	18:26:14;	Dark	;	55.5;	108;	Alp	Col	;	2.65;	15200;	occ;	111;	0;	44785
15;	6865.4;	23-SEP-2010	18:37:35;	Dark	;	51.0;	157;	The1Eri		;	2.91;	9300;	occ;	102;	0;	44785
16;	7144.0;	23-SEP-2010	18:42:14;	Dark	;	16.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	32;	0;	44785

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1;	1108.0;	23-SEP-2010	18:42:14;	Dark	;	45.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	91;	0;	44785
2;	1542.9;	23-SEP-2010	18:49:28;	Dark	;	53.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	107;	0;	44785
3;	2167.5;	23-SEP-2010	18:59:53;	Bright;	;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	44785
4;	2391.7;	23-SEP-2010	19:03:37;	Bright;	;	38.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	76;	0;	44785
5;	2474.9;	23-SEP-2010	19:05:00;	Bright;	;	42.0;	58;	21Alp	And	;	2.07;	11000;	occ;	84;	0;	44785
6;	2984.0;	23-SEP-2010	19:13:30;	Bright;	;	41.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	83;	0;	44785
7;	3078.3;	23-SEP-2010	19:15:04;	Bright;	;	42.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	84;	0;	44785
8;	4496.8;	23-SEP-2010	19:38:42;	Bright;	;	48.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	97;	0;	44785
9;	5070.8;	23-SEP-2010	19:48:16;	Dark	;	71.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	142;	0;	44785
10;	5509.3;	23-SEP-2010	19:55:35;	Dark	;	41.5;	132;	15Rho	Pup	;	2.80;	6900;	occ;	83;	0;	44785
11;	5683.9;	23-SEP-2010	19:58:29;	Dark	;	61.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	122;	0;	44785
12;	5784.9;	23-SEP-2010	20:00:10;	Dark	;	49.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	98;	0;	44785
13;	5920.3;	23-SEP-2010	20:02:26;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44785
14;	6047.4;	23-SEP-2010	20:04:33;	Dark	;	51.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	102;	0;	44786
15;	6185.8;	23-SEP-2010	20:06:51;	Dark	;	55.5;	108;	Alp	Col	;	2.65;	15200;	occ;	111;	0;	44786
16;	6866.3;	23-SEP-2010	20:18:12;	Dark	;	51.0;	157;	The1Eri		;	2.91;	9300;	occ;	102;	0;	44786

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2;	2166.8;	24-SEP-2010	20:08:51;	Bright;	;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	44800
3;	2390.0;	24-SEP-2010	20:12:34;	Bright;	;	39.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	78;	0;	44800
4;	2978.5;	24-SEP-2010	20:22:23;	Bright;	;	41.0;	74;	11Bet	Cas	;	2.27;	6600;	occ;	82;	0;	44800
5;	3071.1;	24-SEP-2010	20:23:55;	Bright;	;	42.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	84;	0;	44800
6;	4498.7;	24-SEP-2010	20:47:43;	Bright;	;	51.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	102;	0;	44800

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1;	-953.9;	24-SEP-2010	20:57:26;	Dark	;	73.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	146;	0;	44800
2;	-516.9;	24-SEP-2010	21:04:43;	Dark	;	45.0;	132;	15Rho	Pup	;	2.80;	6900;	occ;	90;	0;	44800
3;	-321.7;	24-SEP-2010	21:07:59;	Dark	;	43.0;	88;	31Eta	CMA	;	2.45;	20000;	occ;	86;	0;	44800
4;	-235.2;	24-SEP-2010	21:09:25;	Dark	;	50.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	100;	0;	44800
5;	-105.9;	24-SEP-2010	21:11:34;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44800
6;	171.0;	24-SEP-2010	21:16:11;	Dark	;	56.5;	108;	Alp	Col	;	2.65;	15200;	occ;	113;	0;	44801
7;	842.9;	24-SEP-2010	21:27:23;	Dark	;	53.0;	157;	The1Eri		;	2.91;	9300;	occ;	106;	0;	44801
8;	1544.9;	24-SEP-2010	21:39:05;	Dark	;	55.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	110;	0;	44801
9;	2166.6;	24-SEP-2010	21:49:27;	Bright;	;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	44801



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10; 2389.9; 24-SEP-2010 21:53:10; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;44801
11; 2978.1; 24-SEP-2010 22:02:58; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44801
12; 3070.6; 24-SEP-2010 22:04:31; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;44801
13; 4498.8; 24-SEP-2010 22:28:19; Bright; 52.5; 24; 66Alp Gem ; 1.58; 10200;occ; 105; 0;44801
14; 5082.6; 24-SEP-2010 22:38:03; Dark ; 61.5; 8; 10Alp CMi ; 0.40; 6500;occ; 123; 0;44801
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13; 6189.5; 29-SEP-2010 15:16:36; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;44869
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9; 2189.5; 30-SEP-2010 00:13:32; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44874
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14; 4600.1; 01-OCT-2010 00:22:05; Bright; 77.0; 17; 78Bet Gem ; 1.16; 4500;occ; 154; 0;44888
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3; 906.2; 30-SEP-2010 09:55:44; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44880
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5; 3036.1; 30-SEP-2010 12:11:50; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44881
6; 4510.9; 30-SEP-2010 12:36:24; Bright; 57.5; 24; 66Alp Gem ; 1.58; 10200;occ; 115; 0;44881
7; 4598.3; 30-SEP-2010 12:37:52; Bright; 59.0; 17; 78Bet Gem ; 1.16; 4500;occ; 118; 0;44881
8; 5152.8; 30-SEP-2010 12:47:06; Dark ; 68.5; 8; 10Alp CMi ; 0.40; 6500;occ; 137; 0;44881
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4; 2667.4; 30-SEP-2010 13:46:17; Bright; 50.0; 53; 43Bet And ; 2.05; 3300;occ; 100; 0;44882
5; 2953.9; 30-SEP-2010 13:51:03; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44882
6; 3035.6; 30-SEP-2010 13:52:25; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44882
7; 4511.0; 30-SEP-2010 14:17:00; Bright; 55.5; 24; 66Alp Gem ; 1.58; 10200;occ; 111; 0;44882
8; 4598.6; 30-SEP-2010 14:18:28; Bright; 69.5; 17; 78Bet Gem ; 1.16; 4500;occ; 139; 0;44882
9; 5153.8; 30-SEP-2010 14:27:43; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;44882
10; 5578.9; 30-SEP-2010 14:34:48; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44882
11; 5823.8; 30-SEP-2010 14:38:53; Dark ; 67.0; 37; 25Del CMA ; 1.83; 5900;occ; 134; 0;44882
12; 5987.4; 30-SEP-2010 14:41:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44882
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14; 6327.7; 30-SEP-2010 14:47:17; Dark ; 59.5; 108; Alp Col ; 2.65; 15200;occ; 119; 0;44883
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7; 4511.2; 30-SEP-2010 15:57:37; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;44883
8; 4598.8; 30-SEP-2010 15:59:04; Bright; 65.5; 17; 78Bet Gem ; 1.16; 4500;occ; 131; 0;44883
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3; 2437.4; 30-SEP-2010 17:03:39; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44884
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5; 2953.3; 30-SEP-2010 17:12:15; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44884
6; 3034.9; 30-SEP-2010 17:13:36; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44884
7; 4511.5; 30-SEP-2010 17:38:13; Bright; 53.0; 24; 66Alp Gem ; 1.58; 10200;occ; 106; 0;44884
8; 4599.2; 30-SEP-2010 17:39:41; Bright; 57.5; 17; 78Bet Gem ; 1.16; 4500;occ; 115; 0;44884
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8;	4599.5;	30-SEP-2010	19:20:17;	Bright;	62.5;	17;	78Bet Gem	;	1.16;	4500;occ;	125;	0;44885	
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