

GOMOS Daily Report 21-SEP-2008

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	24SEP2008 07:16:31
Data source version	GOMOS/5.00
Start time of products	21SEP2008 00:04:16
Stop time of products	21SEP2008 05:56:25
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

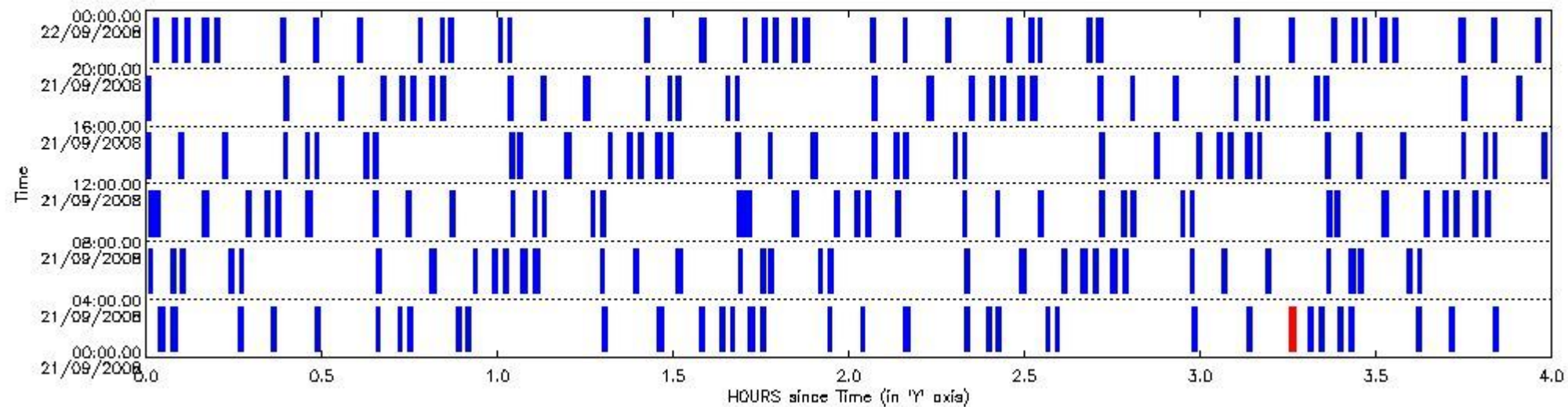
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

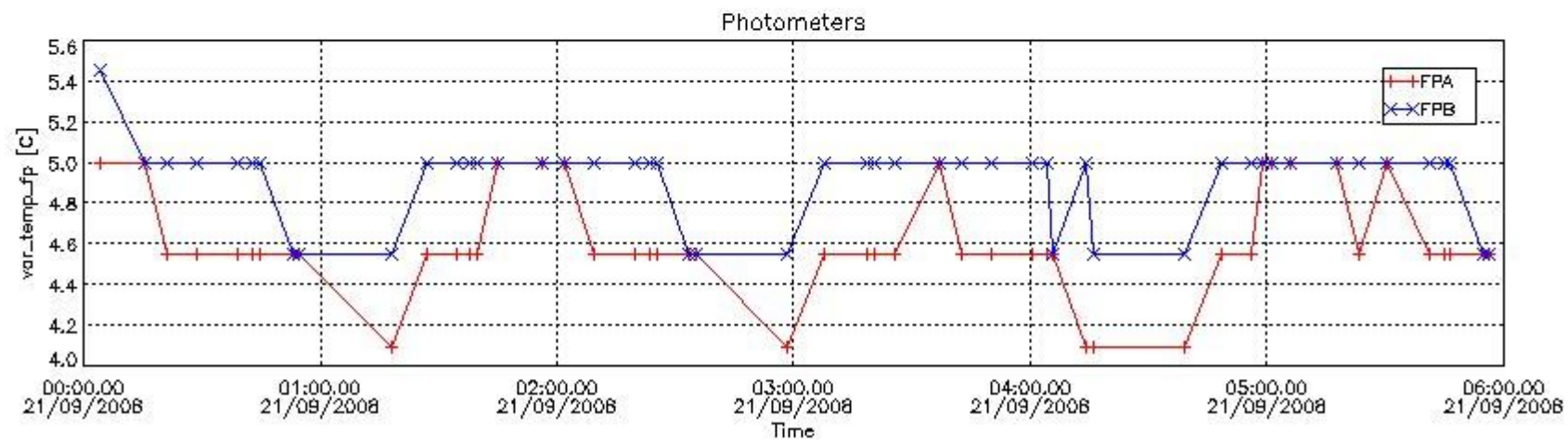
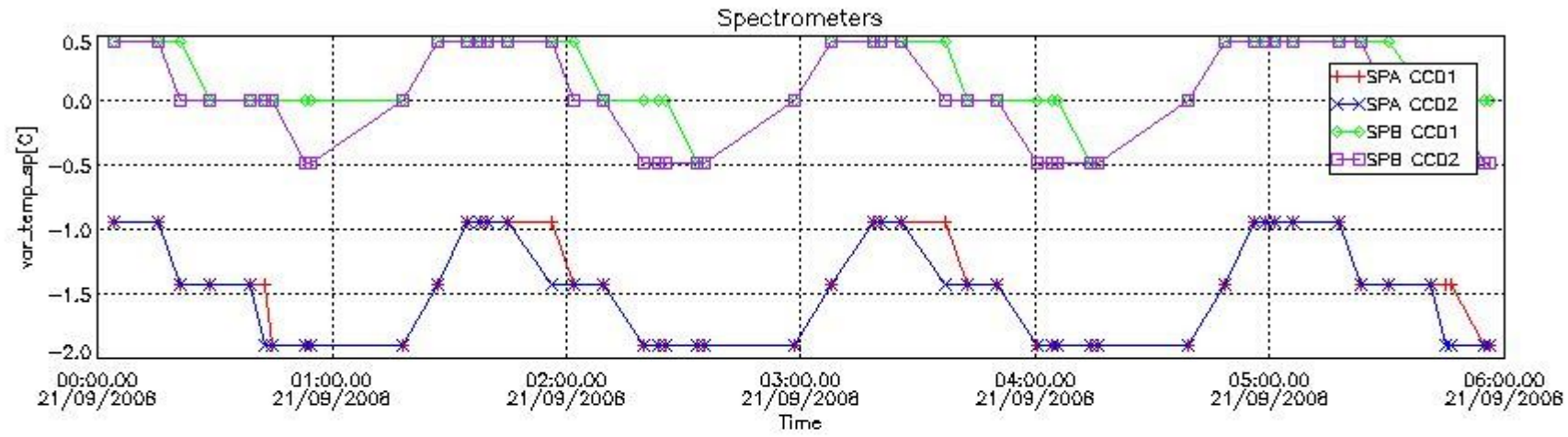
UTC start time	Star name	Star ID	Orbit
21-SEP-2008 03:15:11	15RhoPup	132	34297

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_1PNPDE20080921_000416_000000572072_00174_34296_0559.N1	21-SEP-2008 00:04:16	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	34296	No
2	GOM_TRA_1PNPDE20080921_001545_000000412072_00174_34296_0560.N1	21-SEP-2008 00:15:45	Dark	40.500	9	Alp Eri	0.45300	24000.	81	34296	No
3	GOM_TRA_1PNPDE20080921_002121_000000442072_00174_34296_0561.N1	21-SEP-2008 00:21:21	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	34296	No
4	GOM_TRA_1PNPDE20080921_002843_000000562072_00174_34296_0562.N1	21-SEP-2008 00:28:43	Twilight_and_stray	55.500	52	16Bet Cet	2.0370	4500.0	111	34296	No
5	GOM_TRA_1PNPDE20080921_003914_000000382072_00174_34296_0563.N1	21-SEP-2008 00:39:14	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	34296	No
6	GOM_TRA_1PNPDE20080921_004301_000000392072_00174_34296_0564.N1	21-SEP-2008 00:43:01	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	34296	No
7	GOM_TRA_1PNPDE20080921_004435_000000442072_00174_34296_0565.N1	21-SEP-2008 00:44:35	Bright	44.000	58	21Alp And	2.0730	11000.	88	34296	No
8	GOM_TRA_1PNPDE20080921_005300_000000382072_00174_34296_0566.N1	21-SEP-2008 00:53:00	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	34296	No
9	GOM_TRA_1PNPDE20080921_005439_000000382072_00174_34296_0567.N1	21-SEP-2008 00:54:39	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	34296	No
10	GOM_TRA_1PNPDE20080921_011757_000000482072_00174_34296_0568.N1	21-SEP-2008 01:17:57	Bright	48.000	24	66Alp Gem	1.5800	10200.	96	34296	No

11	GOM_TRA_1PNPDE20080921_012713_000000612072_00174_34296_0569.N1	21-SEP-2008 01:27:13	Dark	60.500	8	10Alp CMi	0.40000	6500.0	121	34296	No
12	GOM_TRA_1PNPDE20080921_013434_000000432072_00174_34296_0727.N1	21-SEP-2008 01:34:34	Dark	43.000	132	15Rho Pup	2.8030	6900.0	86	34296	No
13	GOM_TRA_1PNPDE20080921_013748_000000512072_00174_34296_0728.N1	21-SEP-2008 01:37:48	Dark	51.000	37	25Del CMa	1.8300	5900.0	102	34296	No
14	GOM_TRA_1PNPDE20080921_013943_000000452072_00174_34296_0729.N1	21-SEP-2008 01:39:43	Dark	45.000	117	Pi Pup	2.7060	3800.0	90	34296	No
15	GOM_TRA_1PNPDE20080921_014452_000000562072_00175_34297_0730.N1	21-SEP-2008 01:44:52	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	34297	No
16	GOM_TRA_1PNPDE20080921_015621_000000442072_00175_34297_0731.N1	21-SEP-2008 01:56:21	Dark	44.000	9	Alp Eri	0.45300	24000.	88	34297	No
17	GOM_TRA_1PNPDE20080921_020157_000000452072_00175_34297_0732.N1	21-SEP-2008 02:01:57	Straylight	44.500	84	Alp Phe	2.3970	4500.0	89	34297	No
18	GOM_TRA_1PNPDE20080921_020919_000000572072_00175_34297_0733.N1	21-SEP-2008 02:09:19	Twilight_stray	56.500	52	16Bet Cet	2.0370	4500.0	113	34297	No
19	GOM_TRA_1PNPDE20080921_021950_000000382072_00175_34297_0734.N1	21-SEP-2008 02:19:50	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	34297	No
20	GOM_TRA_1PNPDE20080921_022336_000000392072_00175_34297_0735.N1	21-SEP-2008 02:23:36	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	34297	No
21	GOM_TRA_1PNPDE20080921_022510_000000452072_00175_34297_0736.N1	21-SEP-2008 02:25:10	Bright	44.500	58	21Alp And	2.0730	11000.	89	34297	No
22	GOM_TRA_1PNPDE20080921_023335_000000402072_00175_34297_0737.N1	21-SEP-2008 02:33:35	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	34297	No
23	GOM_TRA_1PNPDE20080921_023514_000000412072_00175_34297_0738.N1	21-SEP-2008 02:35:14	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	34297	No
24	GOM_TRA_1PNPDE20080921_025833_000000462072_00175_34297_0876.N1	21-SEP-2008 02:58:33	Bright	46.000	24	66Alp Gem	1.5800	10200.	92	34297	No
25	GOM_TRA_1PNPDE20080921_030749_000000572072_00175_34297_0877.N1	21-SEP-2008 03:07:49	Dark	57.000	8	10Alp CMi	0.40000	6500.0	114	34297	No
26	GOM_TRA_1PNPDE20080921_031825_000000522072_00175_34297_0878.N1	21-SEP-2008 03:18:25	Dark	52.000	37	25Del CMa	1.8300	5900.0	104	34297	No
27	GOM_TRA_1PNPDE20080921_032020_000000482072_00175_34297_0879.N1	21-SEP-2008 03:20:20	Dark	47.500	117	Pi Pup	2.7060	3800.0	95	34297	No
28	GOM_TRA_1PNPDE20080921_032529_000000442072_00176_34298_0880.N1	21-SEP-2008 03:25:29	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	34298	No
29	GOM_TRA_1PNPDE20080921_033658_000000472072_00176_34298_0881.N1	21-SEP-2008 03:36:58	Dark	47.000	9	Alp Eri	0.45300	24000.	94	34298	No
30	GOM_TRA_1PNPDE20080921_034234_000000442072_00176_34298_0882.N1	21-SEP-2008 03:42:34	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	34298	No
31	GOM_TRA_1PNPDE20080921_034955_000000562072_00176_34298_0883.N1	21-SEP-2008 03:49:55	Twilight_stray	55.500	52	16Bet Cet	2.0370	4500.0	111	34298	No
32	GOM_TRA_1PNPDE20080921_040026_000000382072_00176_34298_0884.N1	21-SEP-2008 04:00:26	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	34298	No
33	GOM_TRA_1PNPDE20080921_040412_000000392072_00176_34298_0885.N1	21-SEP-2008 04:04:12	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	34298	No
34	GOM_TRA_1PNPDE20080921_040546_000000442072_00176_34298_0886.N1	21-SEP-2008 04:05:46	Bright	44.000	58	21Alp And	2.0730	11000.	88	34298	No
35	GOM_TRA_1PNPDE20080921_041411_000000412072_00176_34298_0887.N1	21-SEP-2008 04:14:11	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	34298	No
36	GOM_TRA_1PNPDE20080921_041550_000000402072_00176_34298_0888.N1	21-SEP-2008 04:15:50	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	34298	No
37	GOM_TRA_1PNPDE20080921_043909_000000542072_00176_34298_1071.N1	21-SEP-2008 04:39:09	Bright	54.000	24	66Alp Gem	1.5800	10200.	108	34298	No
38	GOM_TRA_1PNPDE20080921_044826_000000602072_00176_34298_1072.N1	21-SEP-2008 04:48:26	Dark	59.500	8	10Alp CMi	0.40000	6500.0	119	34298	No
39	GOM_TRA_1PNPDE20080921_045547_000000422072_00176_34298_1073.N1	21-SEP-2008 04:55:47	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	34298	No
40	GOM_TRA_1PNPDE20080921_045902_000000542072_00176_34298_1074.N1	21-SEP-2008 04:59:02	Dark	54.000	37	25Del CMa	1.8300	5900.0	108	34298	No
41	GOM_TRA_1PNPDE20080921_050057_000000492072_00176_34298_1075.N1	21-SEP-2008 05:00:57	Dark	49.000	117	Pi Pup	2.7060	3800.0	98	34298	No
42	GOM_TRA_1PNPDE20080921_050606_000000552072_00177_34299_1076.N1	21-SEP-2008 05:06:06	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	34299	No
43	GOM_TRA_1PNPDE20080921_051734_000000412072_00177_34299_1077.N1	21-SEP-2008 05:17:34	Dark	40.500	9	Alp Eri	0.45300	24000.	81	34299	No
44	GOM_TRA_1PNPDE20080921_052310_000000452072_00177_34299_1078.N1	21-SEP-2008 05:23:10	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	34299	No
45	GOM_TRA_1PNPDE20080921_053031_000000552072_00177_34299_1079.N1	21-SEP-2008 05:30:31	Twilight_stray	54.500	52	16Bet Cet	2.0370	4500.0	109	34299	No
46	GOM_TRA_1PNPDE20080921_054102_000000382072_00177_34299_1080.N1	21-SEP-2008 05:41:02	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	34299	No
47	GOM_TRA_1PNPDE20080921_054448_000000492072_00177_34299_1081.N1	21-SEP-2008 05:44:48	Bright	48.500	93	53Bet Peg	2.5200	3100.0	97	34299	No
48	GOM_TRA_1PNPDE20080921_054621_000000452072_00177_34299_1082.N1	21-SEP-2008 05:46:21	Bright	44.500	58	21Alp And	2.0730	11000.	89	34299	No
49	GOM_TRA_1PNPDE20080921_055447_000000402072_00177_34299_1083.N1	21-SEP-2008 05:54:47	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	34299	No
50	GOM_TRA_1PNPDE20080921_055625_000000412072_00177_34299_1084.N1	21-SEP-2008 05:56:25	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	34299	No

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



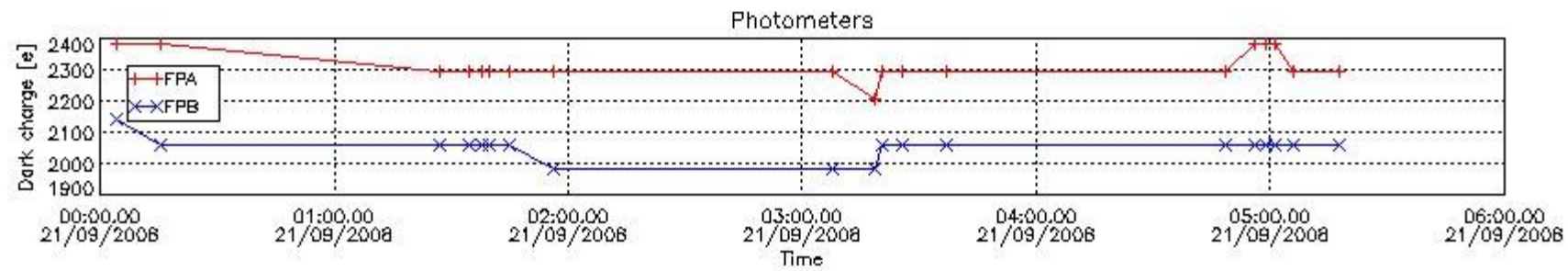
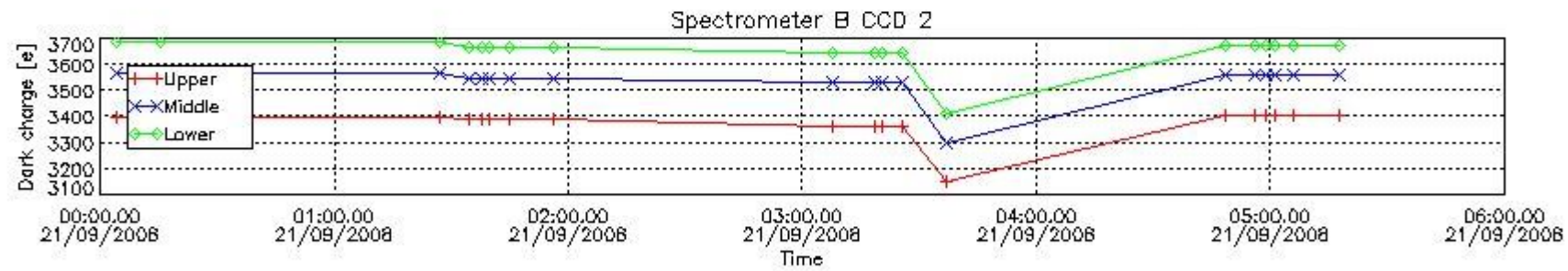
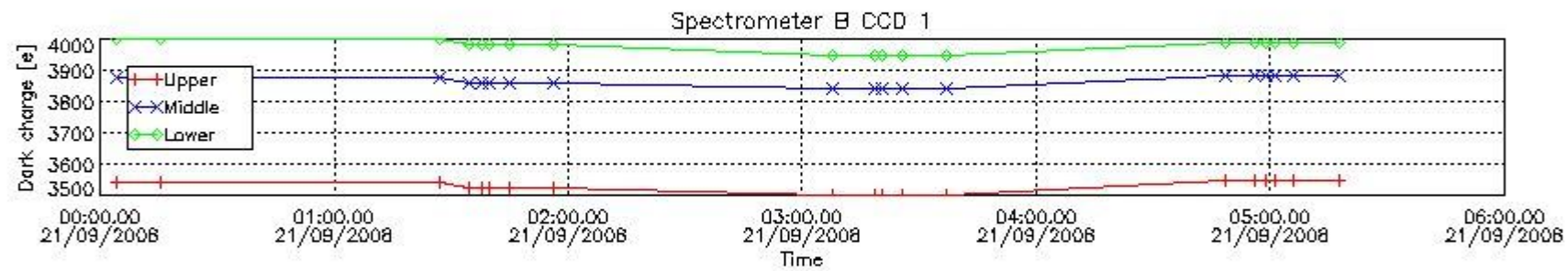
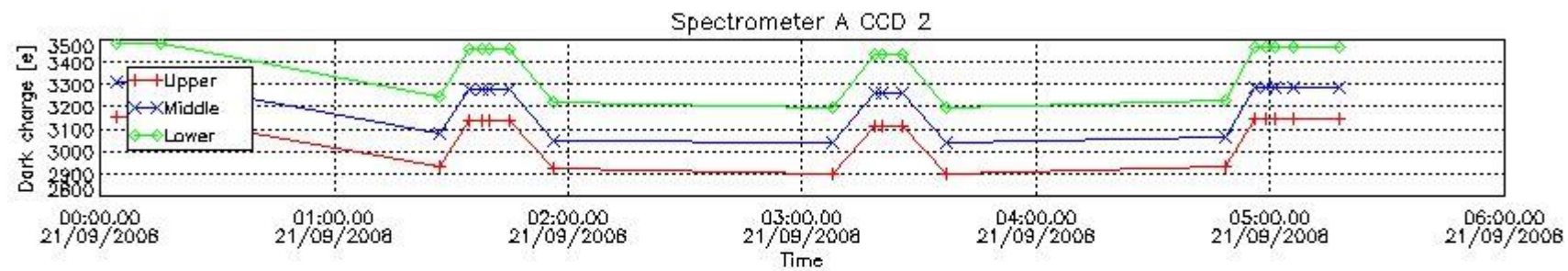
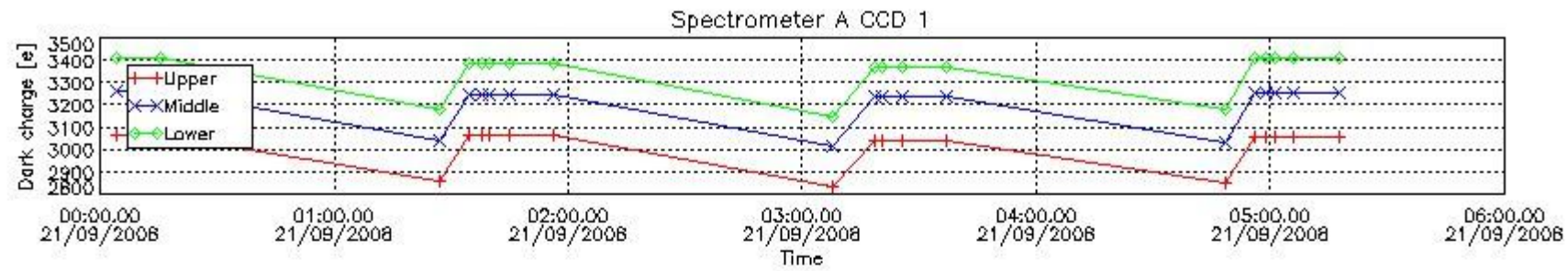
4. Overview of dark signal processing per product

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



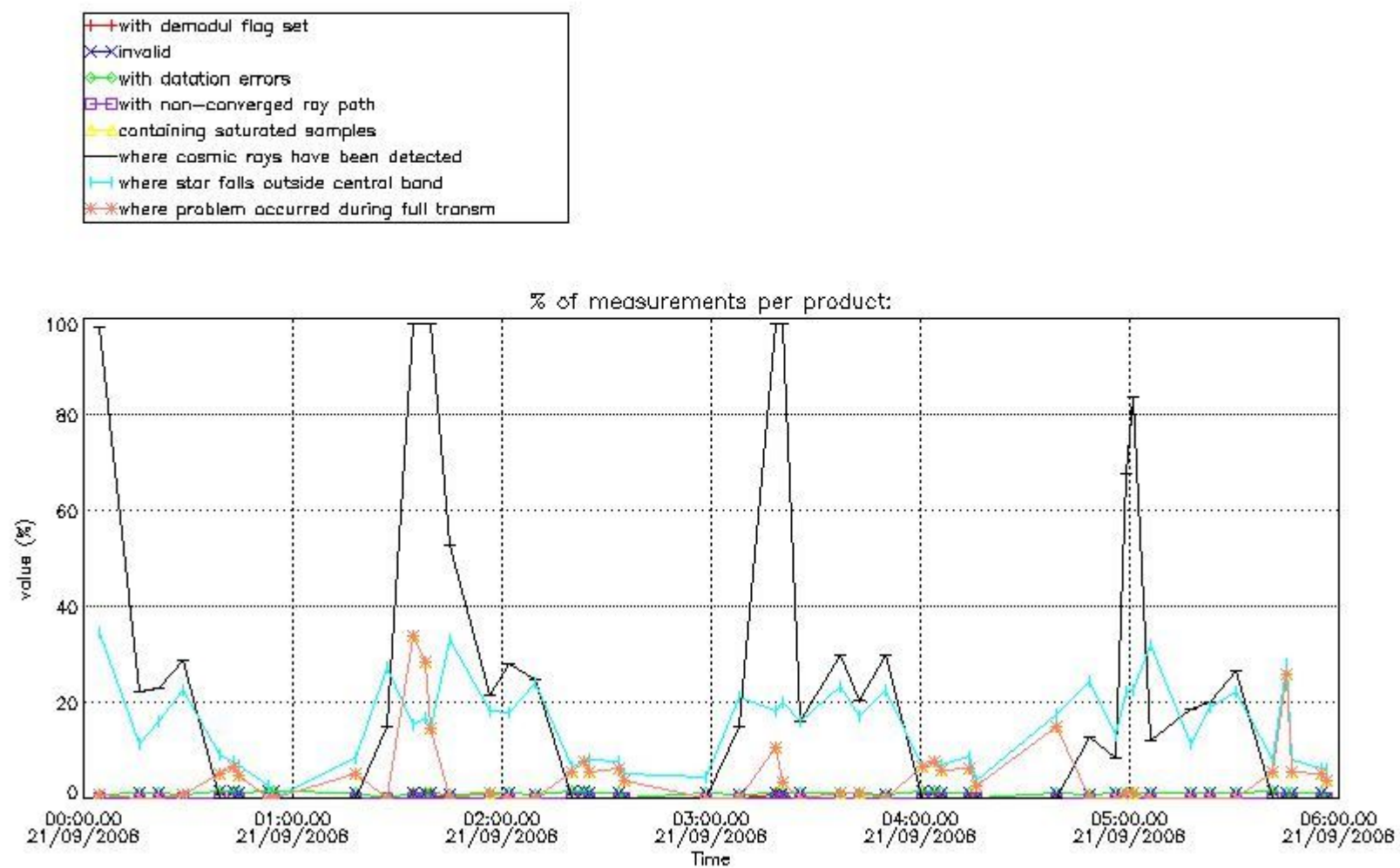
5. Demodulation flag and quality information monitoring

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.

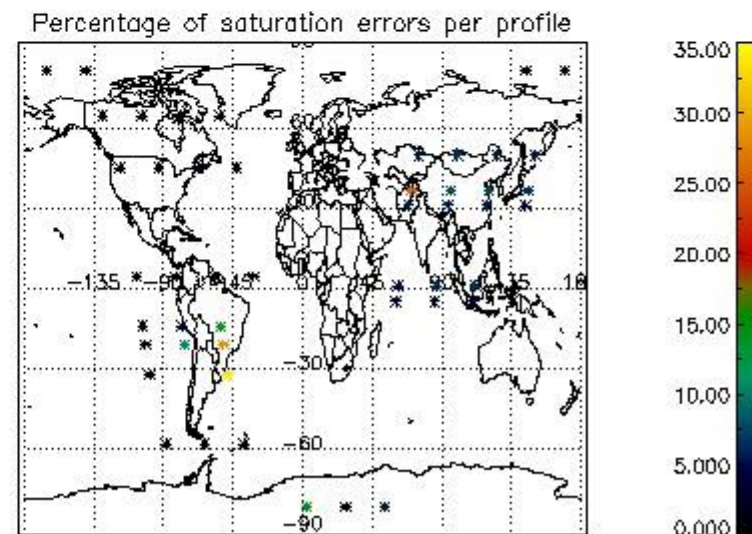
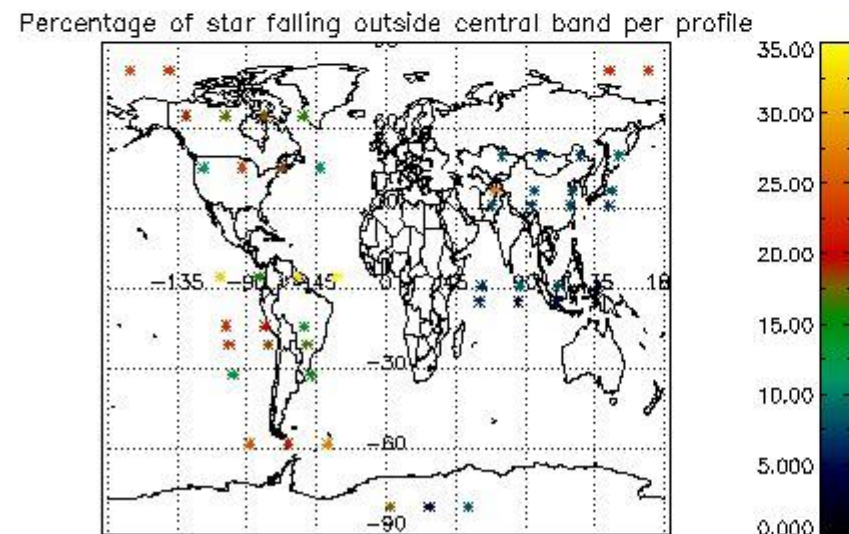
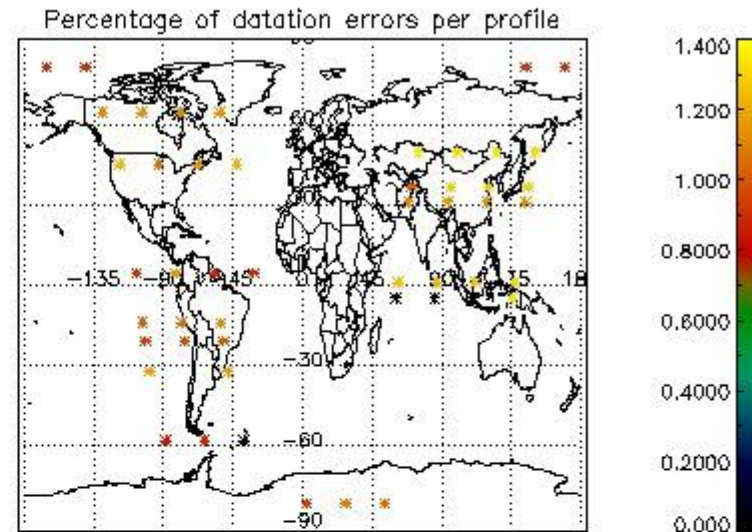
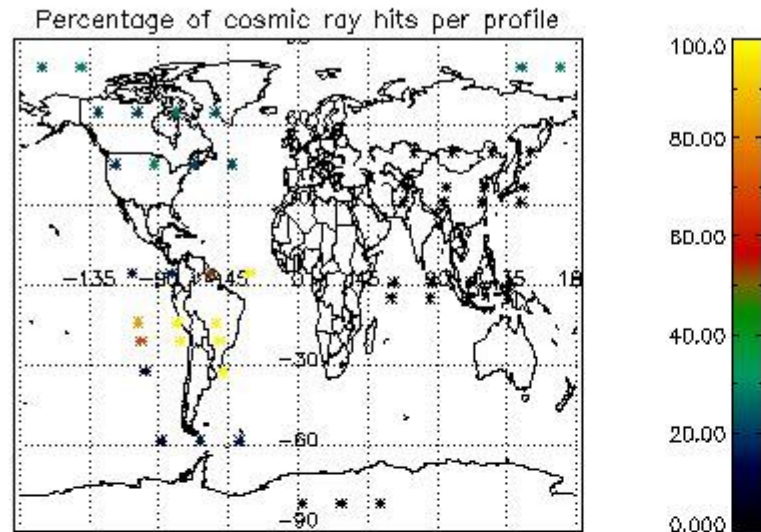
5.1 Percentage of products during reporting period with:

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

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



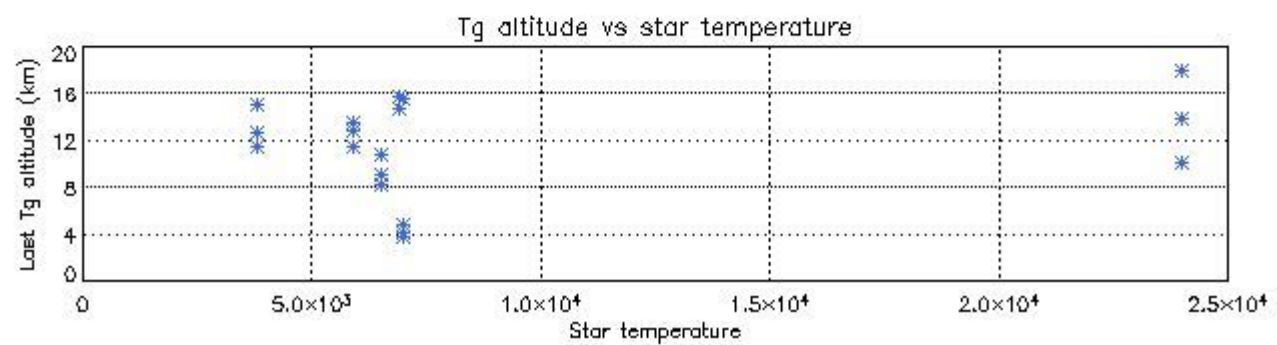
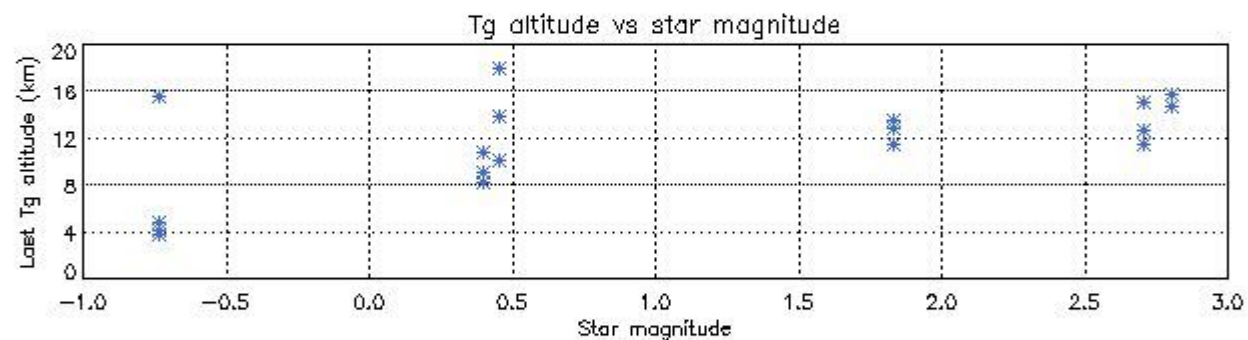
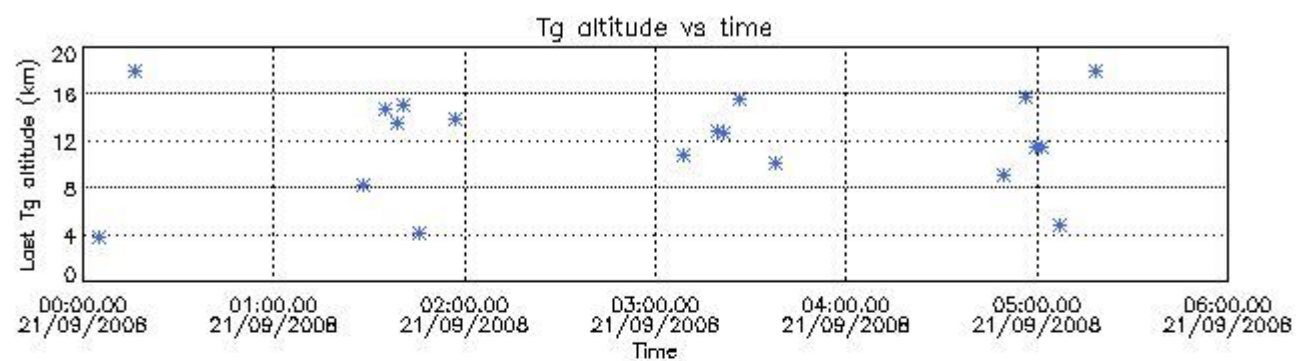
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.780	20.079	NaN
St. deviation:	4.2896	4.0091	NaN
Maximum:	18.001	29.690	NaN
Minimum:	3.8189	8.5052	NaN
Number of data:	19.000	23.000	NaN

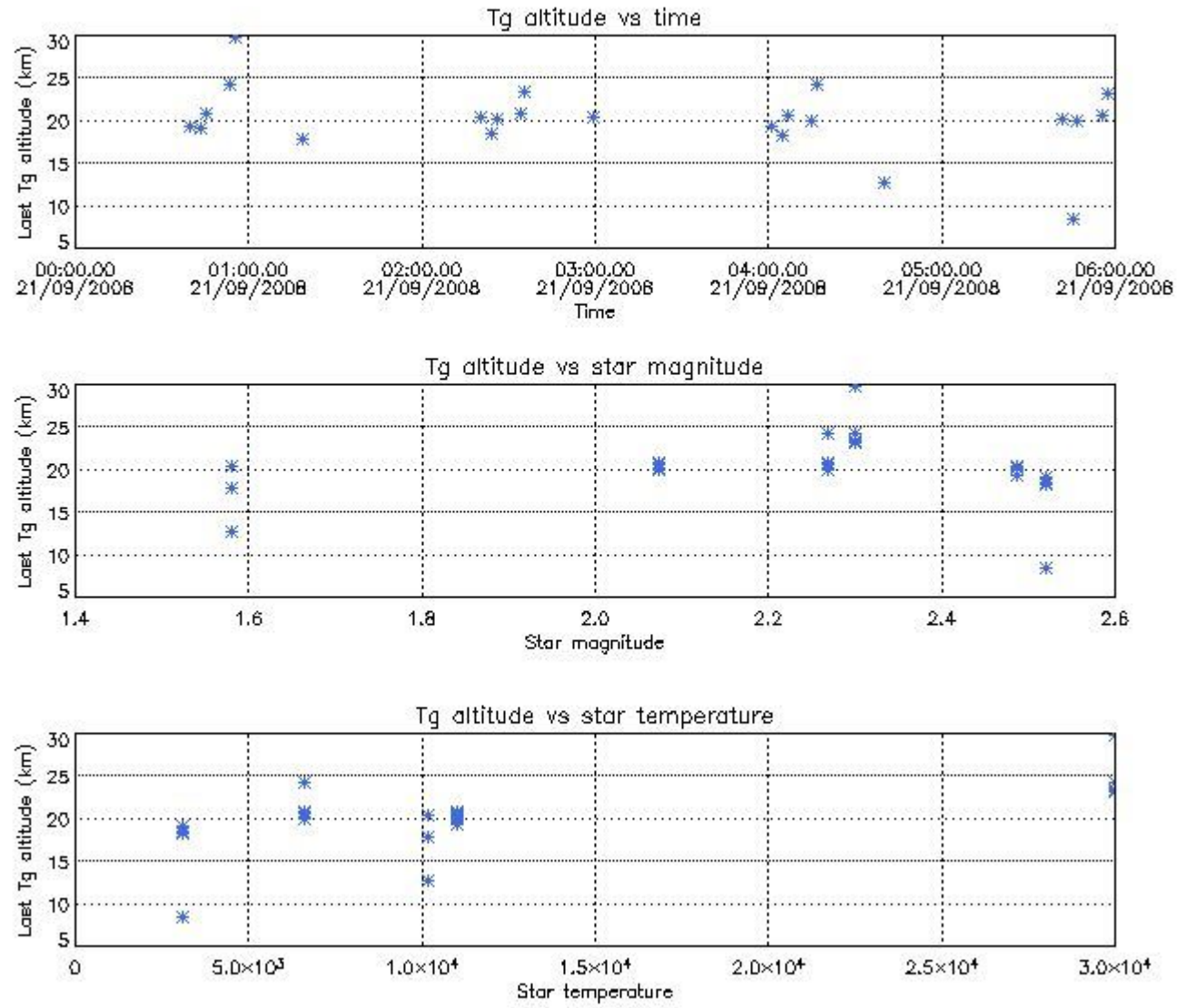
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

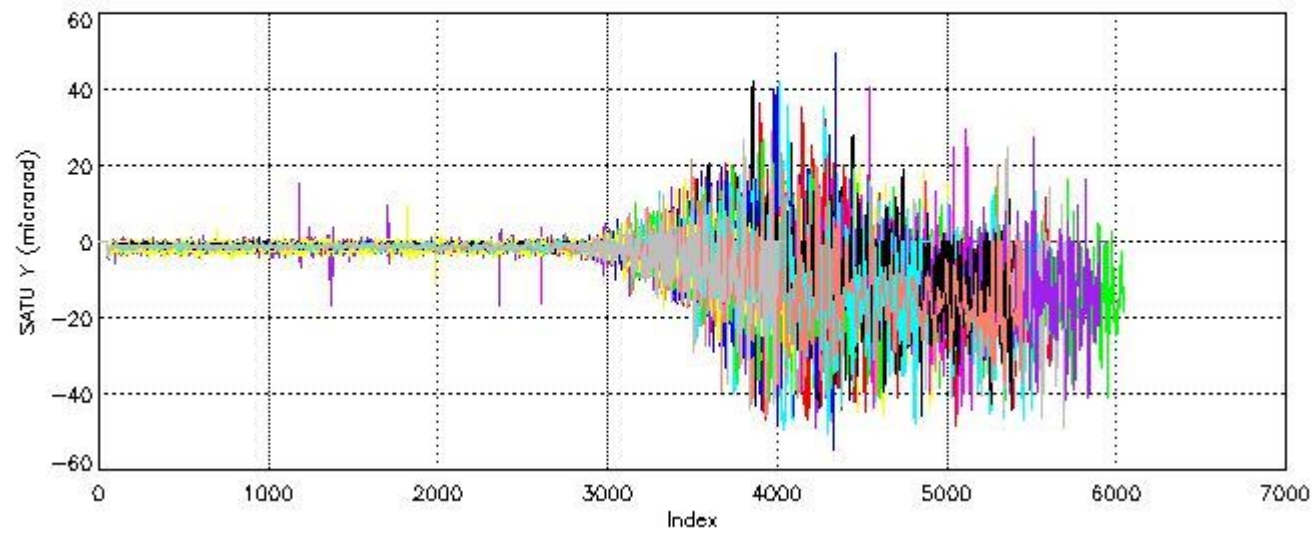
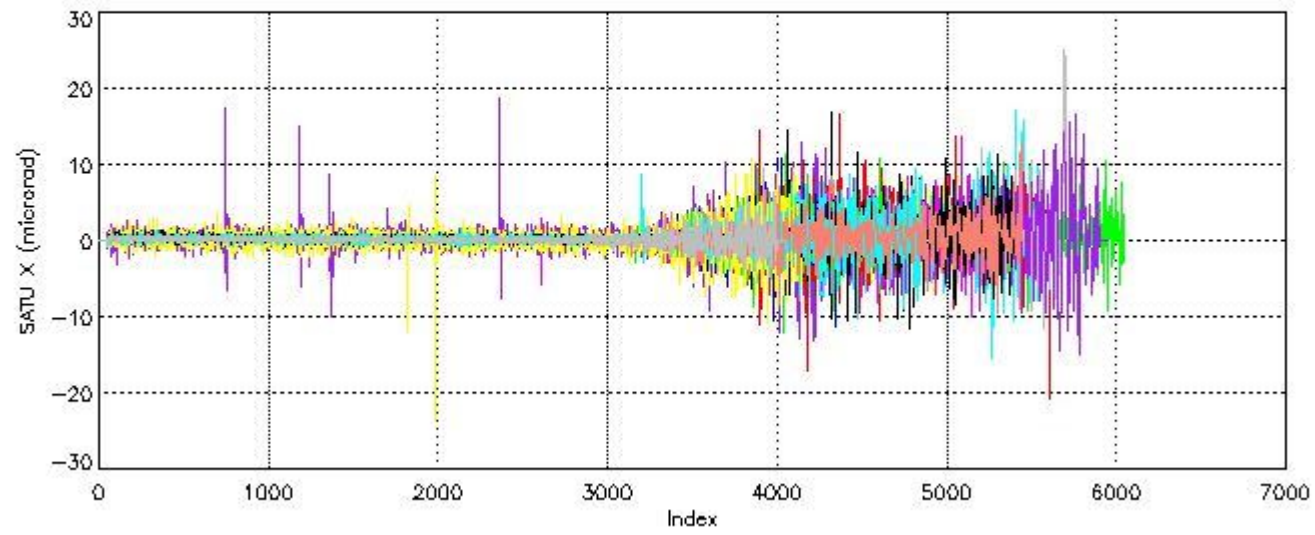


7. Star Acquisition and Tracking Unit (SATU)

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:	0.20576	-1.2376	0.28168	-1.2621
St. deviation:	0.28695	0.48388	0.71707	0.84779
Maximum:	17.300	2.9000	4.7000	2.7000
Minimum:	-6.6000	-5.9000	-4.3000	-6.1000

Number of data:	18850.	18850.	22000.	22000.
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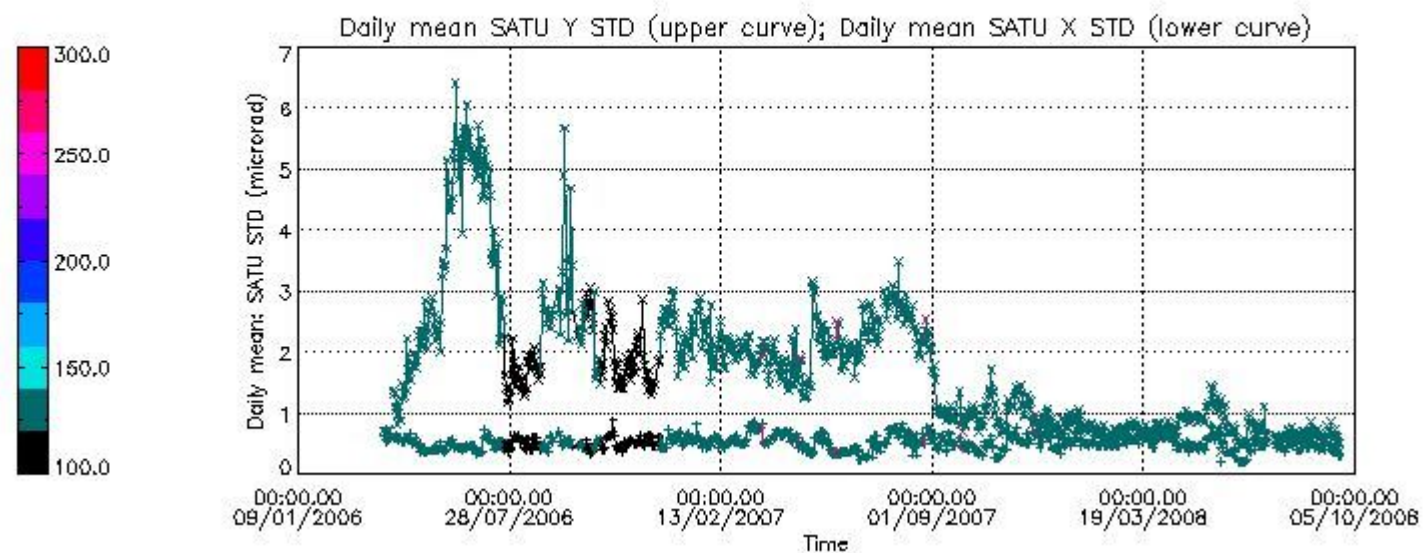
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

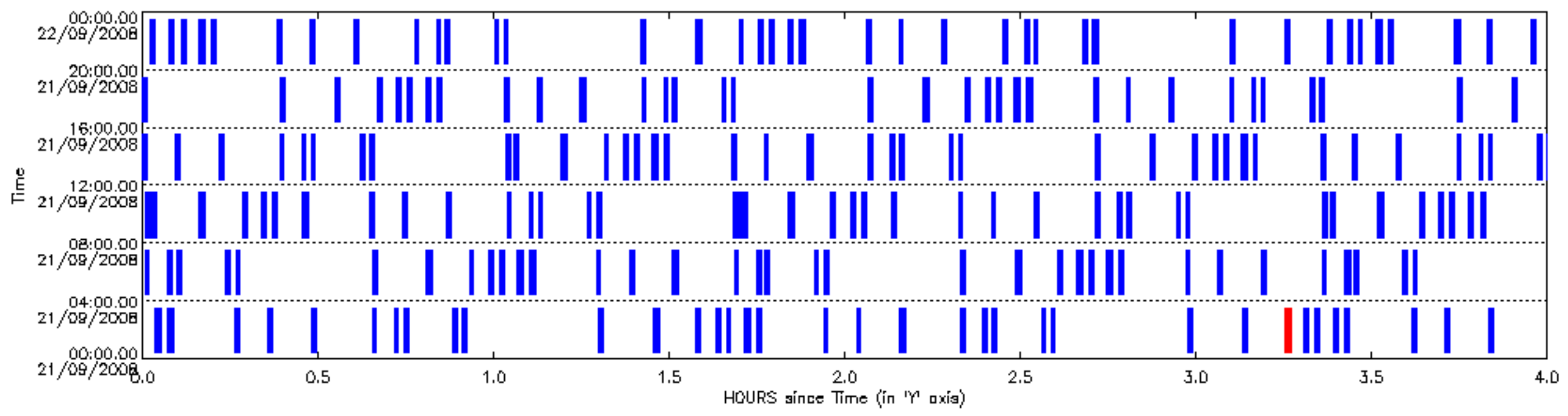
Lower curve: STD of SATU X axis

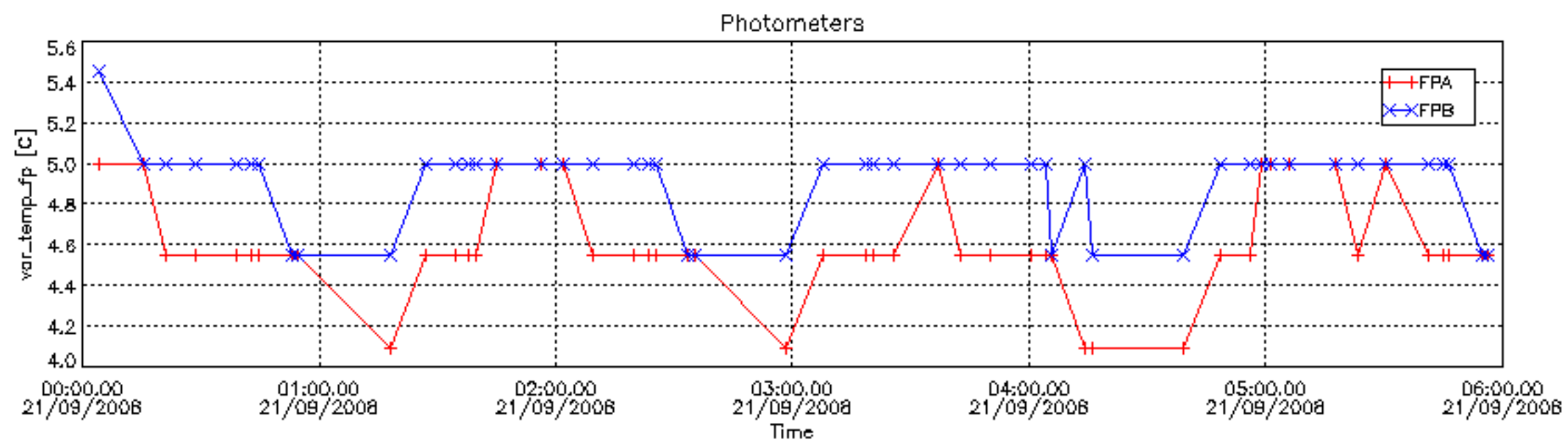
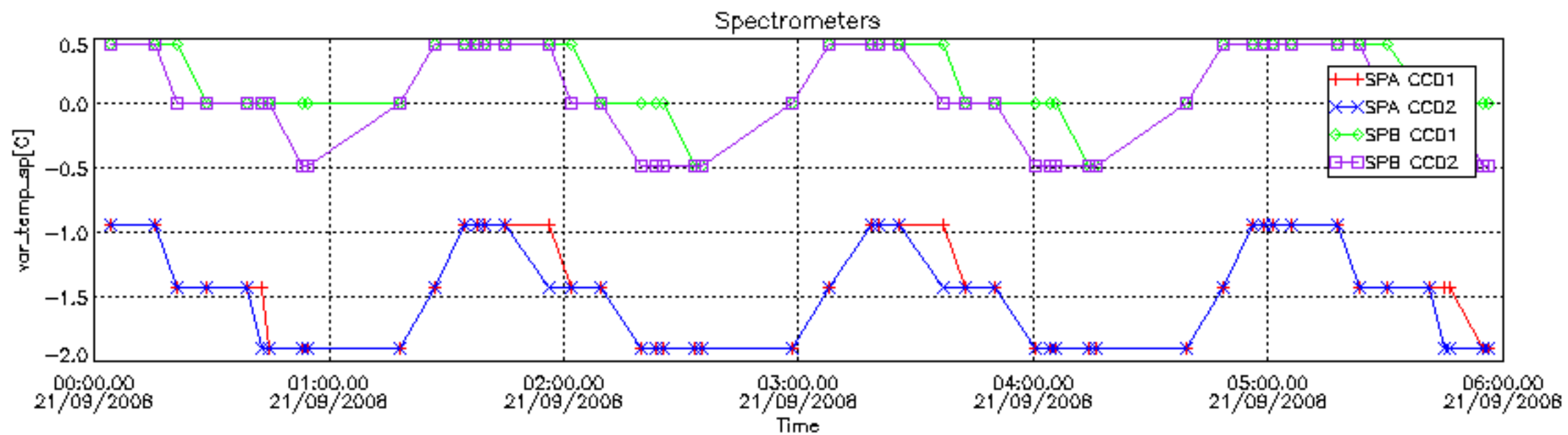


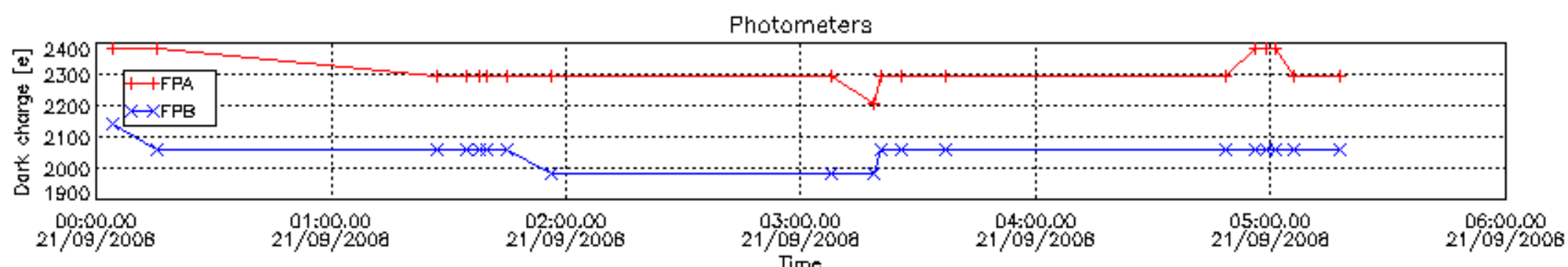
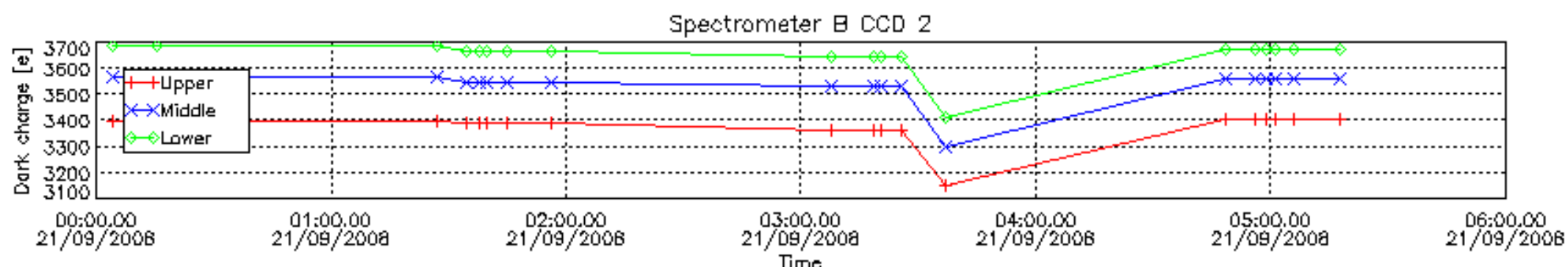
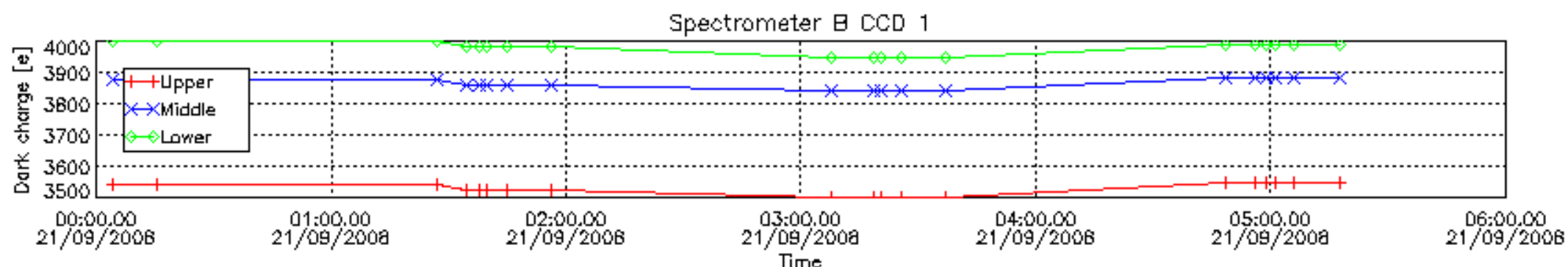
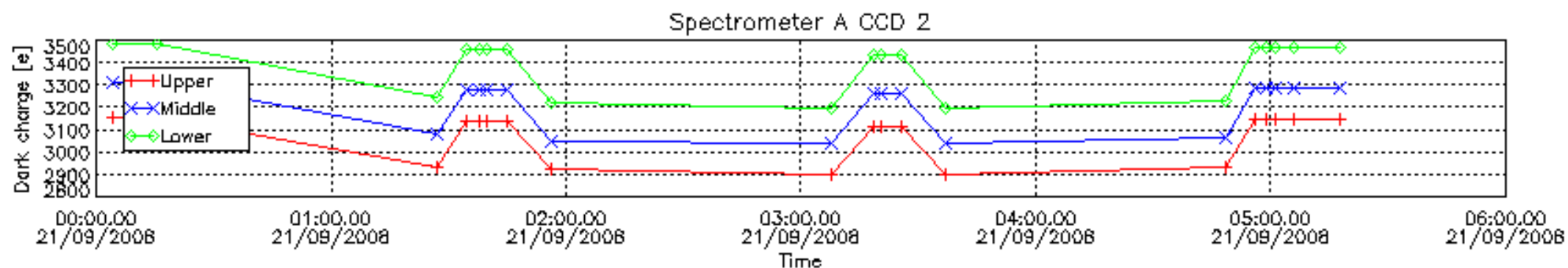
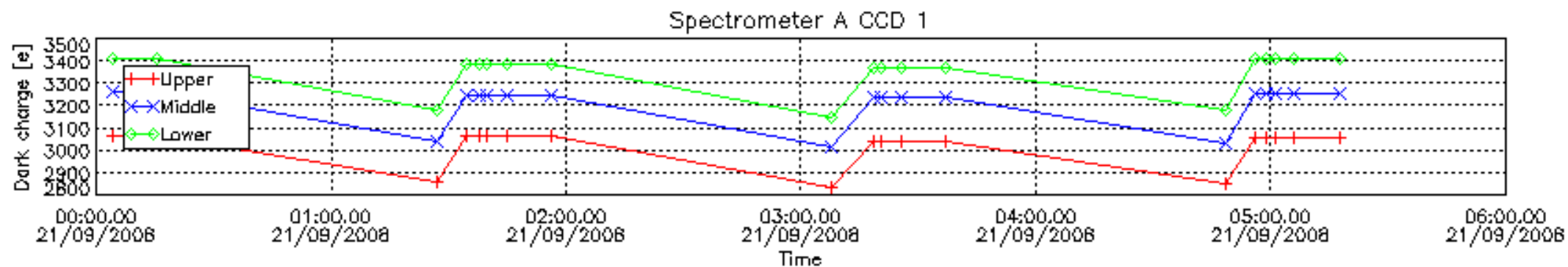
8. Auxiliary Data Files used for the production reported in section 2.4

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.

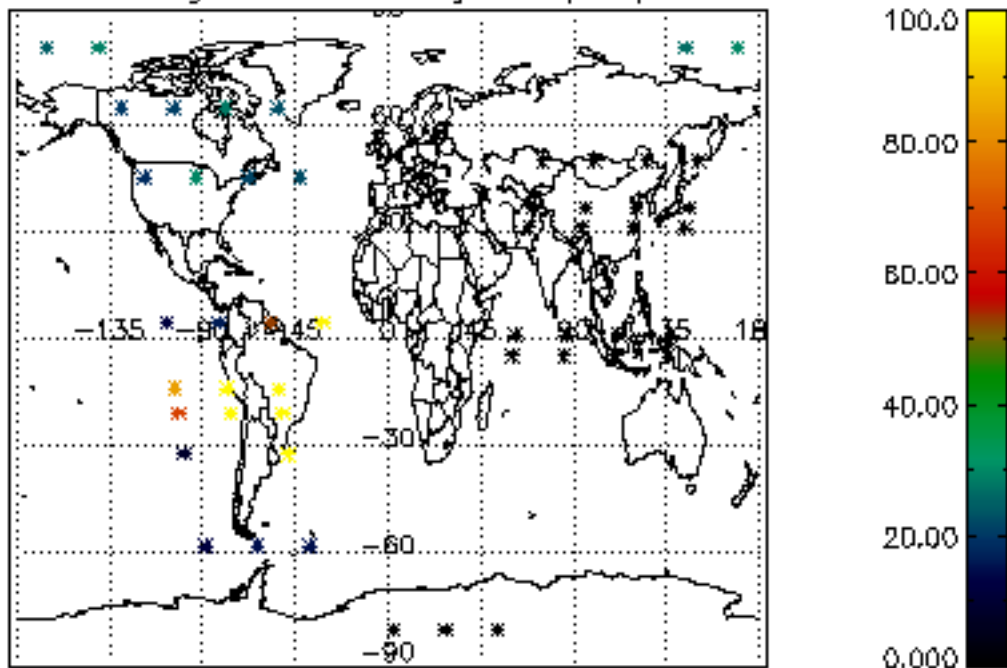
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080912_090950_20080910_000000_20100101_000000	1	21-SEP-2008 00:04:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-SEP-2008 00:04:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-SEP-2008 00:04:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-SEP-2008 00:04:16
ECMWF_FILE	AUX_ECF_AXNECM20080920_072111_20080920_210000_20080921_090000	1	21-SEP-2008 00:04:16
ECMWF_FILE	AUX_ECF_AXNECM20080920_190113_20080921_030000_20080921_150000	37	21-SEP-2008 04:39:09
OPTIONAL_ECMWF_FILE	MISSING	1	21-SEP-2008 00:04:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080920_220448_000057382072_00172_34294_6399.N1	1	21-SEP-2008 00:04:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080920_234545_000057382072_00173_34295_6400.N1	12	21-SEP-2008 01:34:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080921_012642_000044632072_00174_34296_6401.N1	24	21-SEP-2008 02:58:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080921_024624_000054192072_00175_34297_6402.N1	37	21-SEP-2008 04:39:09



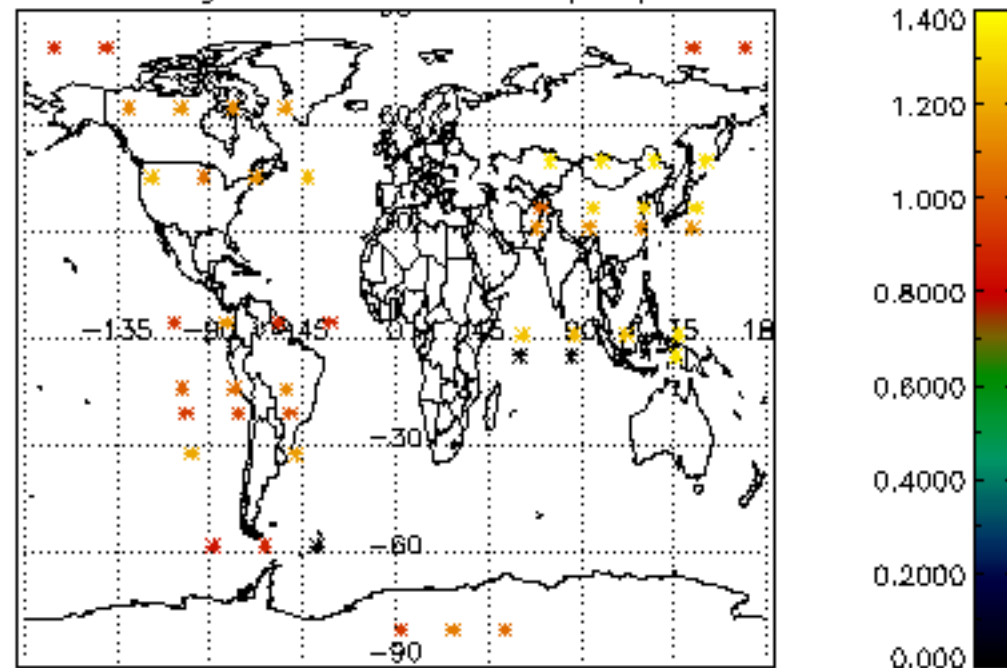




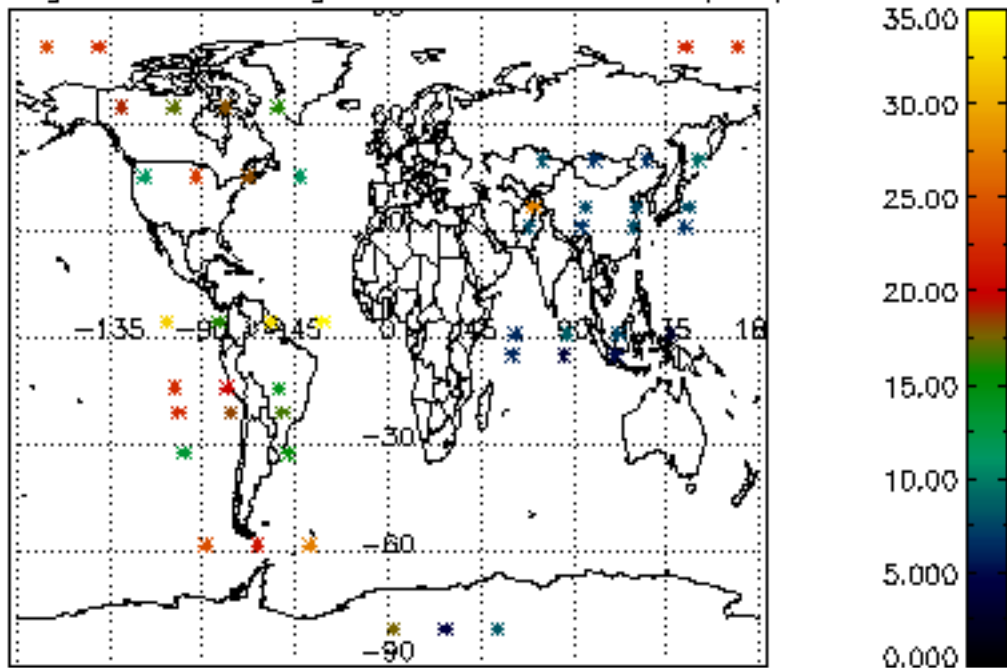
Percentage of cosmic ray hits per profile



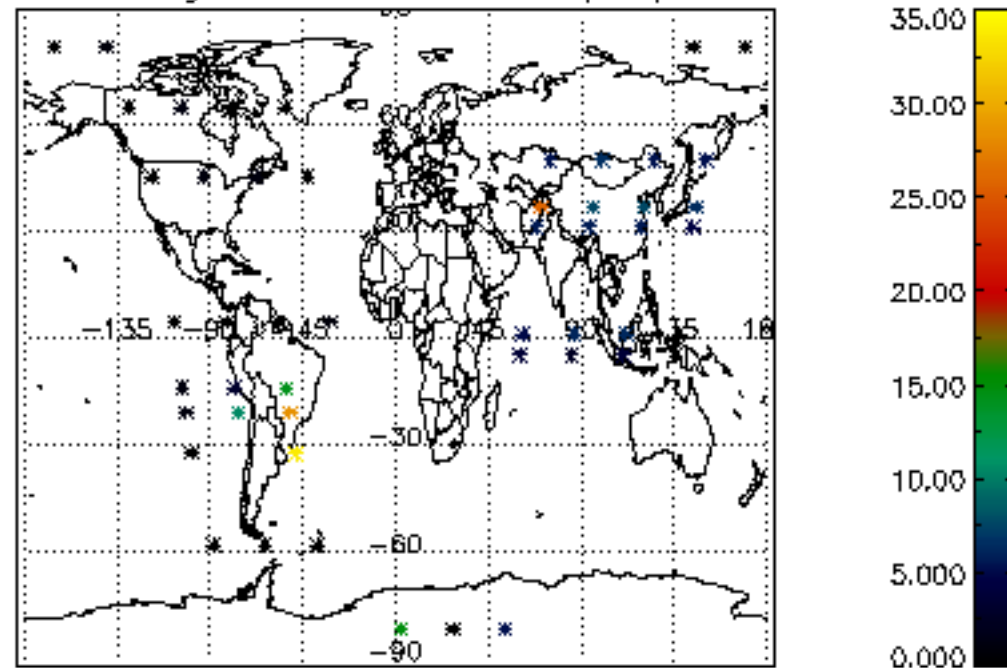
Percentage of datation errors per profile



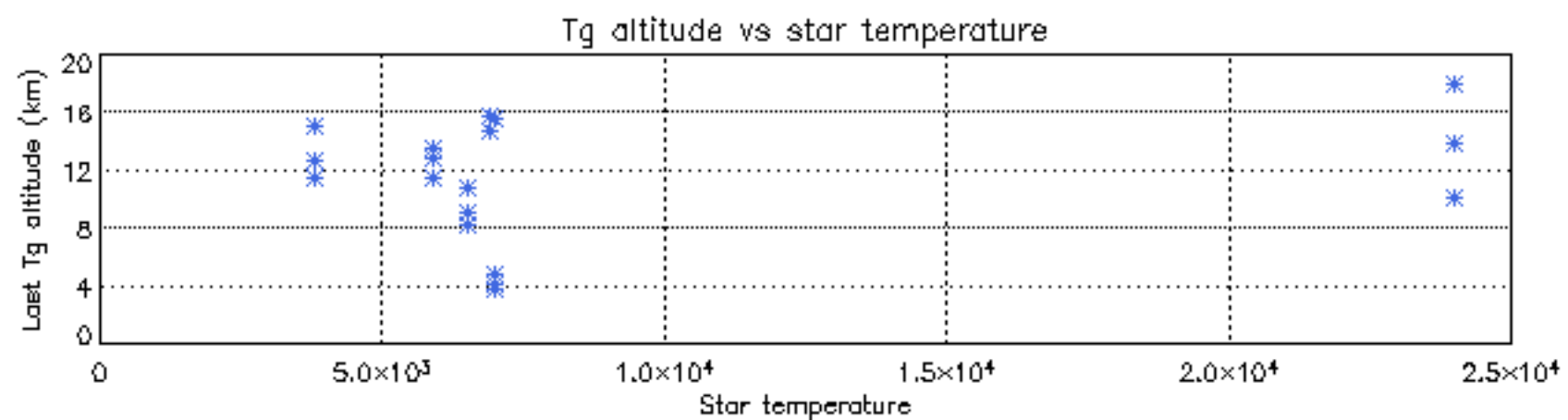
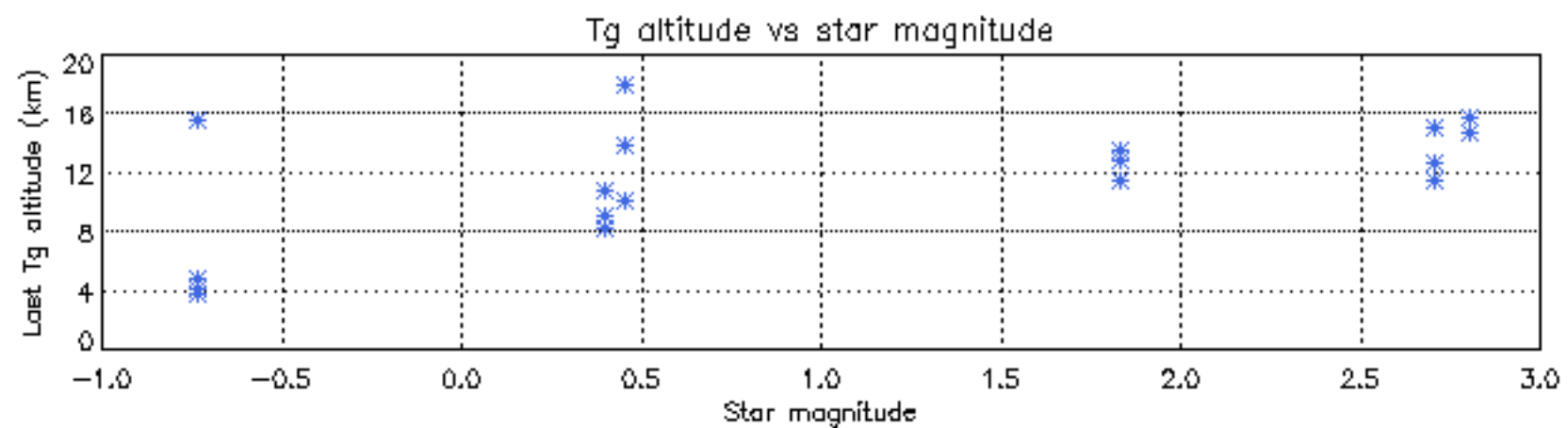
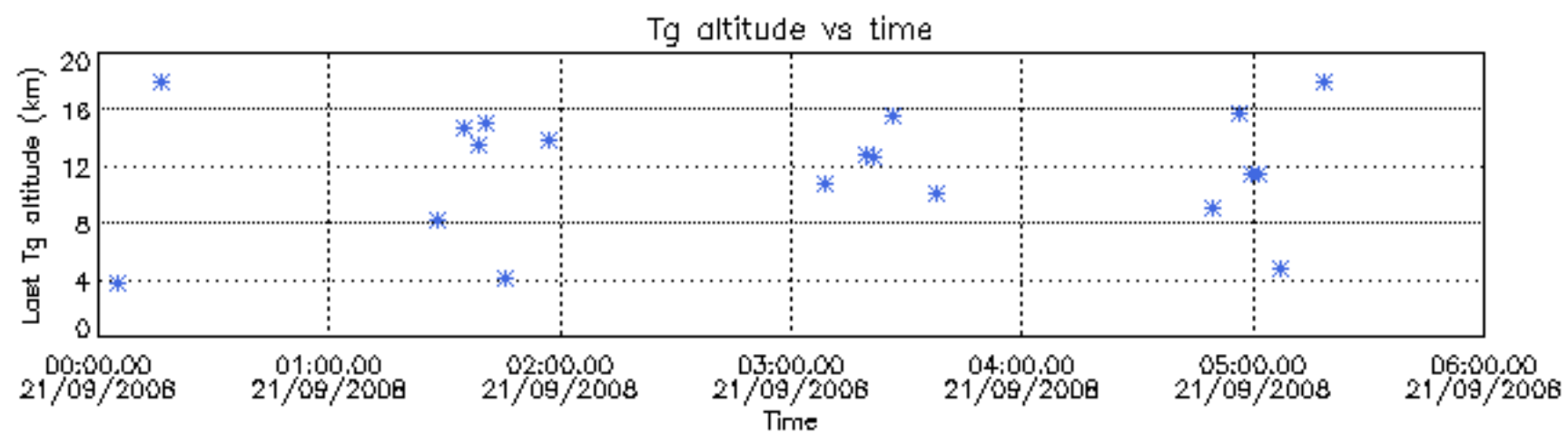
Percentage of star falling outside central band per profile



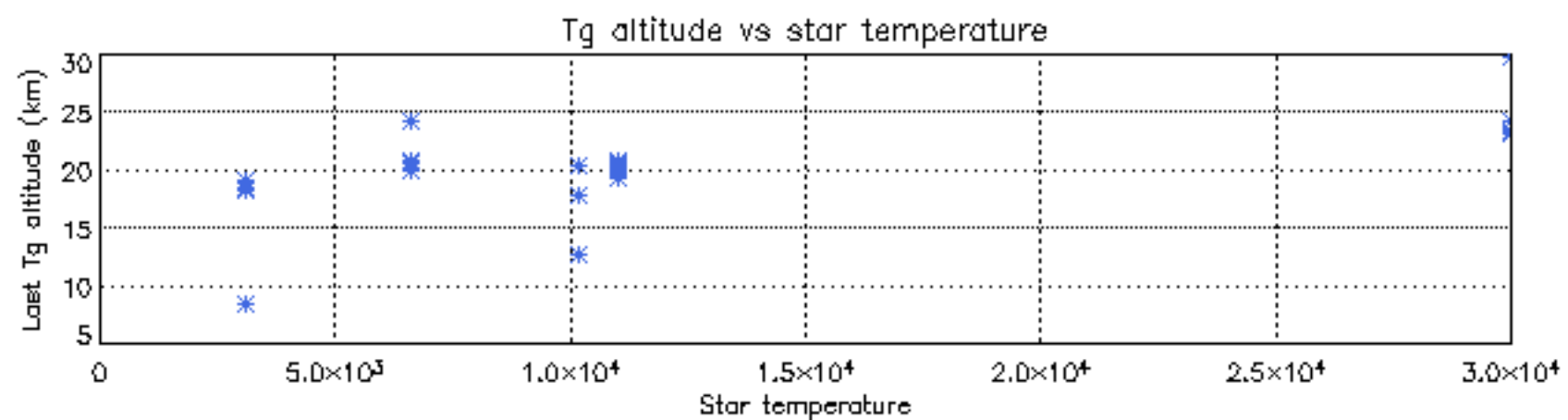
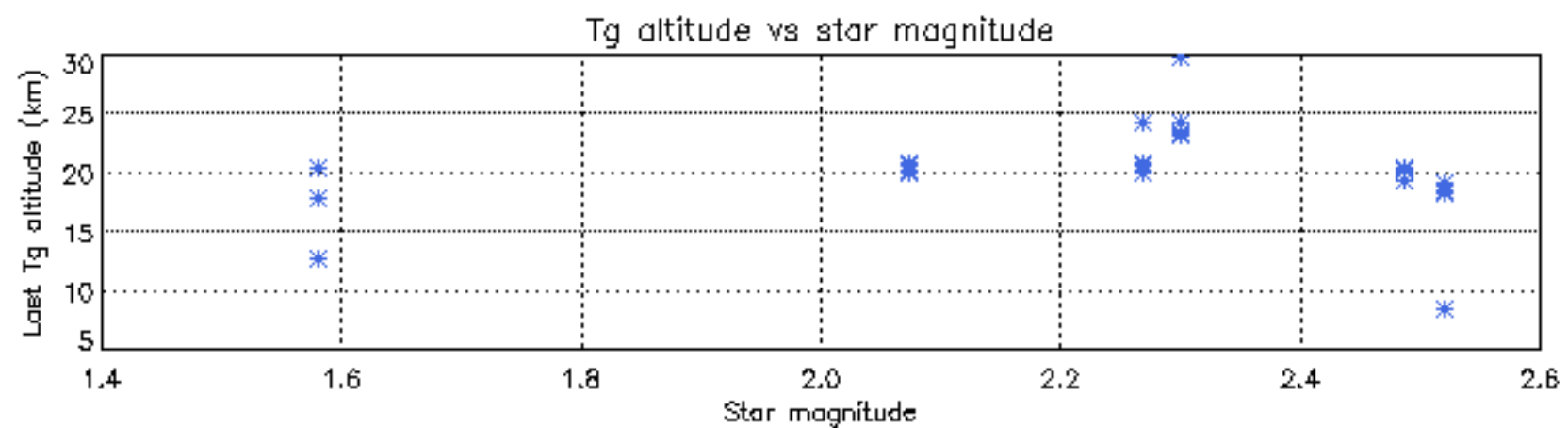
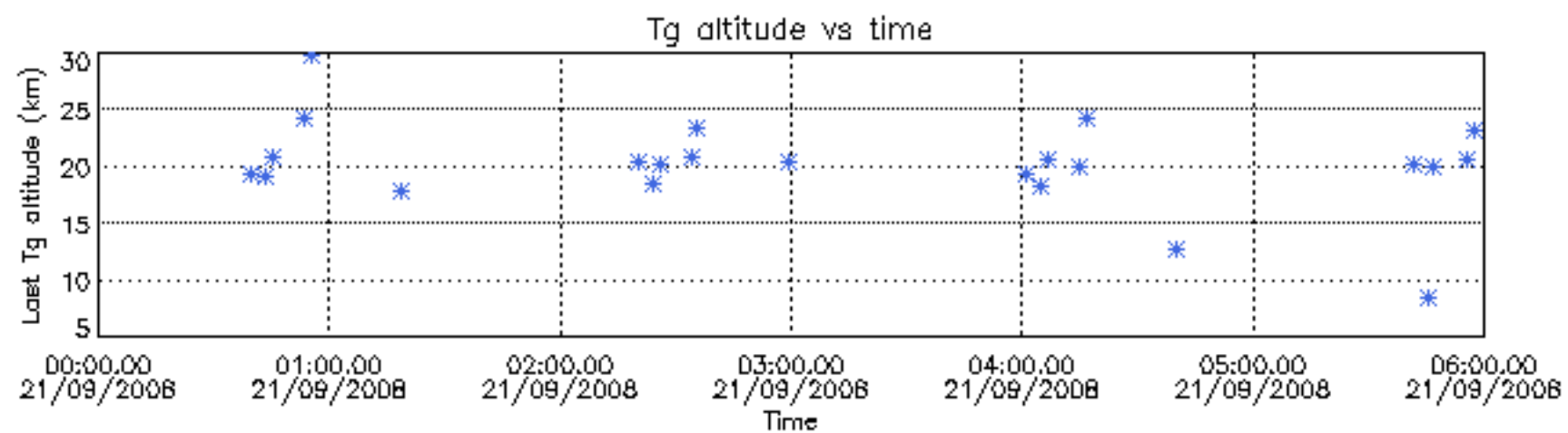
Percentage of saturation errors per profile

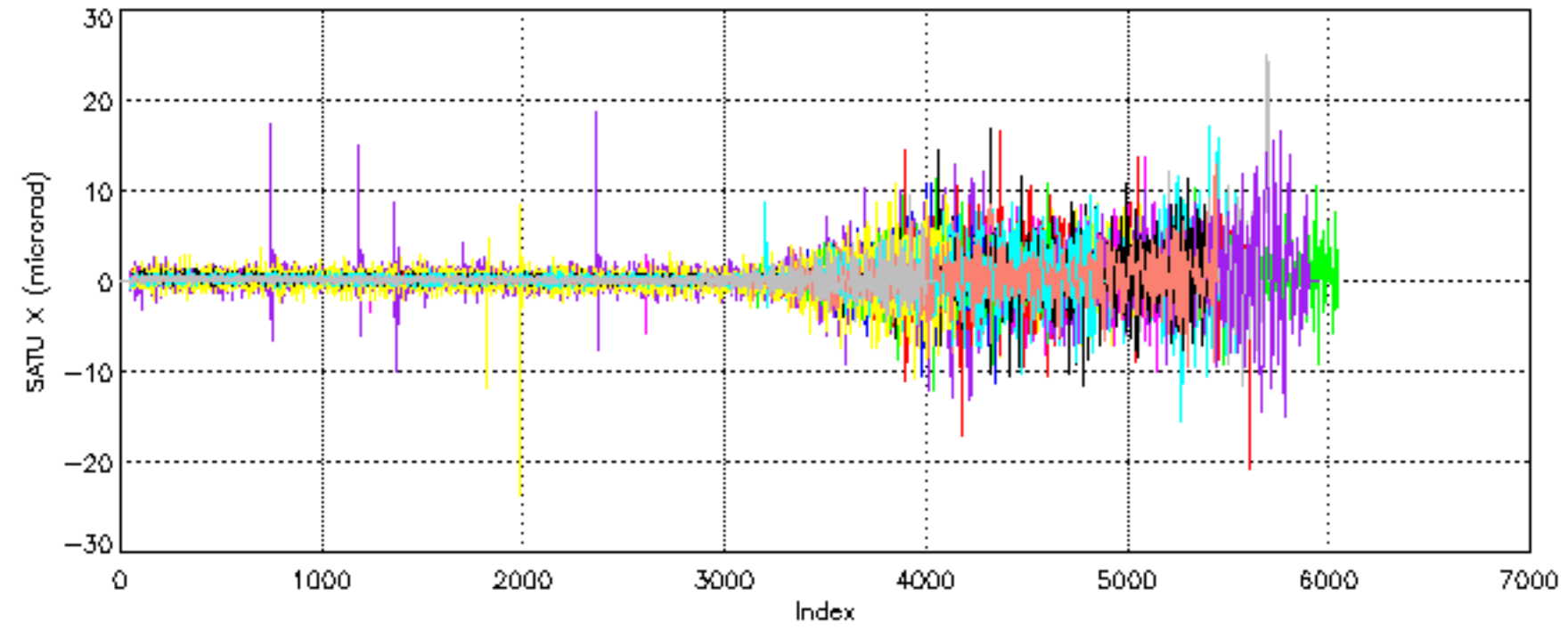


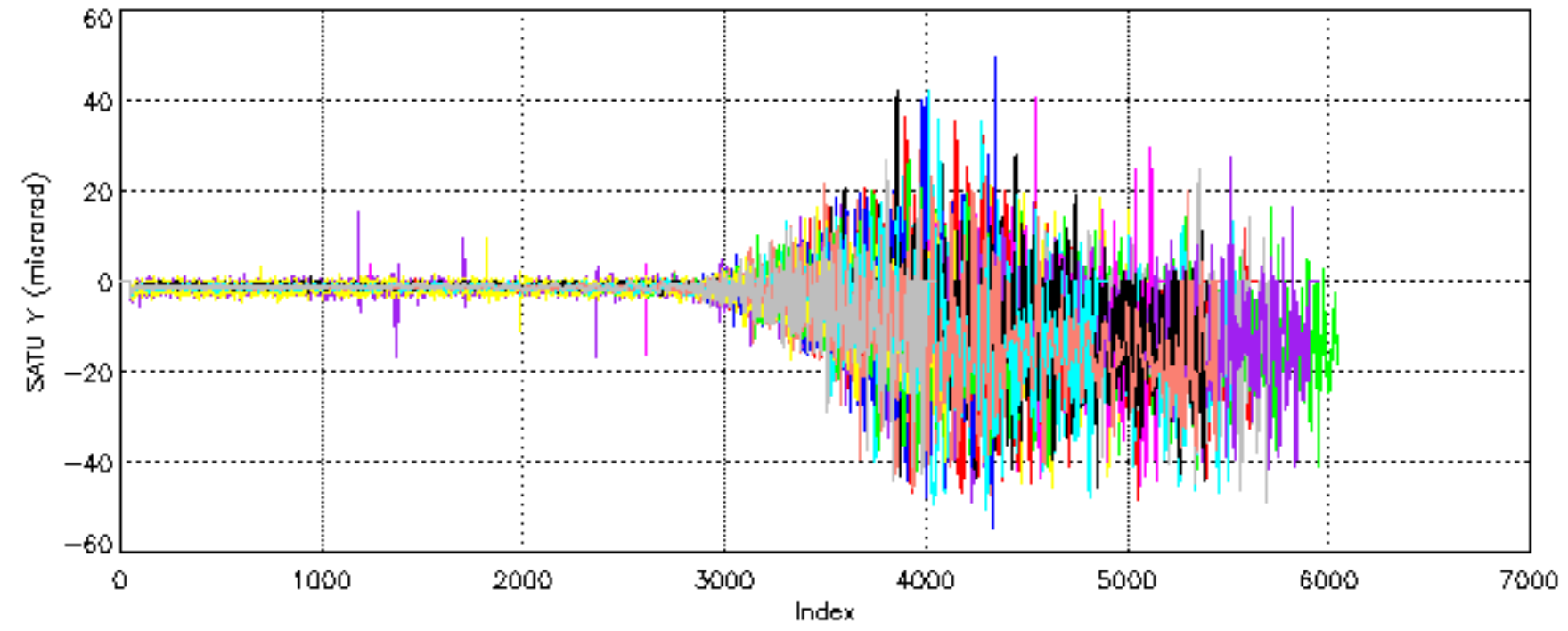
Tangent altitude at which the star is lost

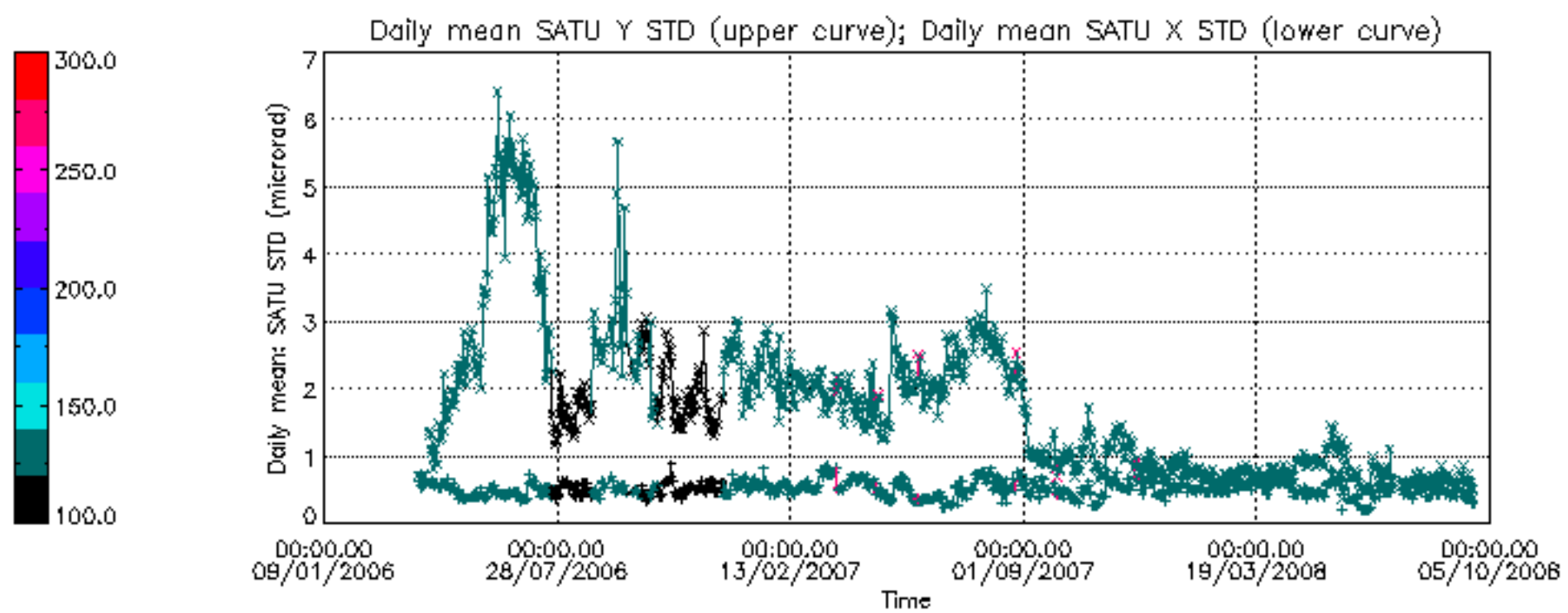


Tangent altitude at which the star is lost









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 6; 2972.0; 04-SEP-2008 09:50:05; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34058
 7; 3433.9; 04-SEP-2008 09:57:47; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;34058
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 4; 626.7; 14-SEP-2008 00:33:37; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34196
 5; 711.6; 14-SEP-2008 00:35:02; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;34196
 6; 1057.6; 14-SEP-2008 00:40:48; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;34196
 7; 2183.9; 14-SEP-2008 00:59:34; Bright; 40.5; 90; 54Alp Peg ; 2.49; 11000;occ; 81; 0;34196
 8; 2418.3; 14-SEP-2008 01:03:29; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34196
 9; 3038.3; 14-SEP-2008 01:13:49; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34196
10; 3148.7; 14-SEP-2008 01:15:39; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;34196
11; 4478.6; 14-SEP-2008 01:37:49; Bright; 43.0; 24; 66Alp Gem ; 1.58; 10200;occ; 86; 0;34196
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 4; 8.9; 14-SEP-2008 02:03:55; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;34197
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 7; 1058.1; 14-SEP-2008 02:21:25; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34197
 8; 2183.8; 14-SEP-2008 02:40:10; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;34197
 9; 2418.1; 14-SEP-2008 02:44:05; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34197
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11; 3148.2; 14-SEP-2008 02:56:15; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34197
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 7; 627.9; 14-SEP-2008 03:54:50; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;34198
 8; 712.8; 14-SEP-2008 03:56:15; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;34198
 9; 1058.7; 14-SEP-2008 04:02:01; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34198
10; 2183.8; 14-SEP-2008 04:20:46; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;34198
11; 2417.9; 14-SEP-2008 04:24:40; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34198
12; 3037.5; 14-SEP-2008 04:35:00; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;34198
13; 3147.9; 14-SEP-2008 04:36:50; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34198
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 6; 10.1; 14-SEP-2008 05:25:09; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;34199
 7; 628.4; 14-SEP-2008 05:35:27; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;34199
 8; 713.3; 14-SEP-2008 05:36:52; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;34199
 9; 1059.2; 14-SEP-2008 05:42:38; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;34199
10; 2183.5; 14-SEP-2008 06:01:22; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;34199

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3; 2415.0; 14-SEP-2008 21:10:37; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34208
4; 3032.8; 14-SEP-2008 21:20:55; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;34208
5; 3141.9; 14-SEP-2008 21:22:44; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;34208
6; 4480.2; 14-SEP-2008 21:45:02; Bright; 43.0; 24; 66Alp Gem ; 1.58; 10200;occ; 86; 0;34208
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5; 633.2; 14-SEP-2008 22:21:31; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34209
6; 718.3; 14-SEP-2008 22:22:56; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;34209
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9; 2414.8; 14-SEP-2008 22:51:13; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34209
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11; 3141.2; 14-SEP-2008 23:03:19; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34209
12; 4480.3; 14-SEP-2008 23:25:38; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;34209
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6; 718.8; 15-SEP-2008 00:03:33; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;34210
7; 1063.7; 15-SEP-2008 00:09:17; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34210
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9; 2414.4; 15-SEP-2008 00:31:48; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;34210
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6; 719.3; 15-SEP-2008 01:44:09; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;34211
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5; -138.0; 15-SEP-2008 03:10:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34211
6; 18.0; 15-SEP-2008 03:13:04; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;34212
7; 634.6; 15-SEP-2008 03:23:20; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34212
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14; 3125.0; 16-SEP-2008 23:40:25; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;34238
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7; 733.3; 17-SEP-2008 00:41:09; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34239
8; 1075.3; 17-SEP-2008 00:46:51; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;34239
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11; 2407.2; 17-SEP-2008 01:09:03; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;34239
12; 2523.8; 17-SEP-2008 01:11:00; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34239
13; 3018.9; 17-SEP-2008 01:19:15; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34239
14; 3124.4; 17-SEP-2008 01:21:00; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;34239
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6; 647.9; 17-SEP-2008 02:20:20; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;34240
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13; 3018.6; 17-SEP-2008 02:59:50; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34240
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4; -463.4; 17-SEP-2008 03:42:24; Dark ; 65.5; 1; 9Alp CMA ; -1.44; 11000;occ; 131; 0;34240
5; -335.5; 17-SEP-2008 03:44:32; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;34240
6; -110.8; 17-SEP-2008 03:48:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34240
7; 36.0; 17-SEP-2008 03:50:44; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;34241
8; 648.6; 17-SEP-2008 04:00:56; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34241
9; 734.4; 17-SEP-2008 04:02:22; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34241
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11; 1530.7; 17-SEP-2008 04:15:38; Dark ; 57.0; 52; 16Bet Cet ; 2.04; 4500;occ; 114; 0;34241
12; 2176.3; 17-SEP-2008 04:26:24; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34241
13; 2406.9; 17-SEP-2008 04:30:15; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34241
14; 2522.7; 17-SEP-2008 04:32:10; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;34241
15; 3018.2; 17-SEP-2008 04:40:26; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34241
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 4; -462.2; 17-SEP-2008 05:23:02; Dark ; 67.0; 1; 9Alp CMA ; -1.44; 11000;occ; 134; 0;34241
 5; -334.6; 17-SEP-2008 05:25:09; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;34241
 6; -109.9; 17-SEP-2008 05:28:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34241
 7; 36.6; 17-SEP-2008 05:31:20; Dark ; 42.5; 2; Alp Car ; -0.74; 7000;occ; 85; 0;34242
 8; 649.1; 17-SEP-2008 05:41:33; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34242
 9; 734.9; 17-SEP-2008 05:42:59; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;34242
 10; 1076.7; 17-SEP-2008 05:48:40; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34242
 11; 1530.8; 17-SEP-2008 05:56:15; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;34242
 12; 2176.2; 17-SEP-2008 06:07:00; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34242
 13; 2406.7; 17-SEP-2008 06:10:50; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34242
 14; 2522.1; 17-SEP-2008 06:12:46; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;34242
 15; 3017.8; 17-SEP-2008 06:21:02; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34242
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 3; 2174.9; 17-SEP-2008 21:12:22; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;34251
 4; 2404.7; 17-SEP-2008 21:16:12; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34251
 5; 2516.2; 17-SEP-2008 21:18:04; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;34251
 6; 3013.9; 17-SEP-2008 21:26:21; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;34251
 7; 3118.1; 17-SEP-2008 21:28:05; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;34251
 8; 4486.1; 17-SEP-2008 21:50:53; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;34251
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 7; 1080.9; 18-SEP-2008 00:15:20; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;34253
 8; 1532.2; 18-SEP-2008 00:22:51; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;34253
 9; 2174.4; 18-SEP-2008 00:33:33; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;34253
 10; 2404.1; 18-SEP-2008 00:37:23; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34253
 11; 2515.0; 18-SEP-2008 00:39:14; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;34253
 12; 3012.9; 18-SEP-2008 00:47:32; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34253
 13; 3116.8; 18-SEP-2008 00:49:16; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34253
 14; 4486.3; 18-SEP-2008 01:12:05; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;34253
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 3; 1078.3; 17-SEP-2008 12:31:06; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34246
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 5; 654.5; 18-SEP-2008 01:48:49; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34254
 6; 740.7; 18-SEP-2008 01:50:16; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34254
 7; 1081.3; 18-SEP-2008 01:55:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;34254
 8; 1532.4; 18-SEP-2008 02:03:27; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;34254
 9; 2174.3; 18-SEP-2008 02:14:09; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34254
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6; -97.3; 18-SEP-2008 03:16:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34254
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13; 2403.8; 18-SEP-2008 03:58:35; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34255
14; 2514.0; 18-SEP-2008 04:00:25; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;34255
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13; 2403.5; 18-SEP-2008 05:39:10; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34256
14; 2513.3; 18-SEP-2008 05:41:00; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;34256
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2; 1534.0; 18-SEP-2008 20:30:04; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;34265
3; 2173.1; 18-SEP-2008 20:40:43; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34265
4; 2401.8; 18-SEP-2008 20:44:32; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34265
5; 2508.0; 18-SEP-2008 20:46:18; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;34265
6; 3008.1; 18-SEP-2008 20:54:38; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34265
7; 3110.5; 18-SEP-2008 20:56:21; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34265
8; 4488.1; 18-SEP-2008 21:19:19; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;34265
9; 5029.0; 18-SEP-2008 21:28:19; Dark ; 65.5; 8; 10Alp CMI ; 0.40; 6500;occ; 131; 0;34265
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2; -434.3; 18-SEP-2008 21:37:52; Dark ; 62.5; 1; 9Alp CMA ; -1.44; 11000;occ; 125; 0;34265
3; -313.0; 18-SEP-2008 21:39:53; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;34265
4; -86.5; 18-SEP-2008 21:43:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34265
5; 52.0; 18-SEP-2008 21:45:58; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;34266
6; 746.5; 18-SEP-2008 21:57:33; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;34266
7; 1085.9; 18-SEP-2008 22:03:12; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;34266
8; 1534.1; 18-SEP-2008 22:10:40; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;34266
9; 2172.9; 18-SEP-2008 22:21:19; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34266
10; 2401.6; 18-SEP-2008 22:25:08; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34266
11; 2507.3; 18-SEP-2008 22:26:54; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34266
12; 3007.7; 18-SEP-2008 22:35:14; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;34266
13; 3110.1; 18-SEP-2008 22:36:56; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;34266
14; 4488.2; 18-SEP-2008 22:59:54; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;34266
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3; -312.0; 18-SEP-2008 23:20:30; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;34266
4; -85.5; 18-SEP-2008 23:24:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34266
5; 52.6; 18-SEP-2008 23:26:35; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;34267
6; 746.9; 18-SEP-2008 23:38:09; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;34267
7; 1086.1; 18-SEP-2008 23:43:48; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34267
8; 1534.3; 18-SEP-2008 23:51:17; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;34267

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12; 3007.2; 19-SEP-2008 00:15:49; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34267
13; 3109.4; 19-SEP-2008 00:17:32; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;34267
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3; -84.5; 19-SEP-2008 01:04:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34267
4; 53.2; 19-SEP-2008 01:07:11; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;34268
5; 747.5; 19-SEP-2008 01:18:46; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;34268
6; 1086.6; 19-SEP-2008 01:24:25; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;34268
7; 1534.4; 19-SEP-2008 01:31:52; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;34268
8; 2172.7; 19-SEP-2008 01:42:31; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34268
9; 2401.2; 19-SEP-2008 01:46:19; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;34268
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11; 3006.8; 19-SEP-2008 01:56:25; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34268
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3; -562.4; 19-SEP-2008 02:37:32; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;34268
4; -430.7; 19-SEP-2008 02:39:43; Dark ; 61.5; 1; 9Alp CMA ; -1.44; 11000;occ; 123; 0;34268
5; -310.1; 19-SEP-2008 02:41:44; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;34268
6; -83.5; 19-SEP-2008 02:45:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34268
7; 53.9; 19-SEP-2008 02:47:48; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;34269
8; 748.0; 19-SEP-2008 02:59:22; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;34269
9; 1087.0; 19-SEP-2008 03:05:01; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;34269
10; 1534.7; 19-SEP-2008 03:12:29; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;34269
11; 2172.7; 19-SEP-2008 03:23:07; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34269
12; 2401.1; 19-SEP-2008 03:26:55; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;34269
13; 2505.7; 19-SEP-2008 03:28:40; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;34269
14; 3006.5; 19-SEP-2008 03:37:01; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34269
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5; -309.2; 19-SEP-2008 04:22:21; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;34269
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7; 54.5; 19-SEP-2008 04:28:24; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34270
8; 748.5; 19-SEP-2008 04:39:58; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;34270
9; 1087.5; 19-SEP-2008 04:45:37; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;34270
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12; 2400.9; 19-SEP-2008 05:07:31; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;34270
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6; -81.5; 19-SEP-2008 06:06:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34270
7; 55.2; 19-SEP-2008 06:09:01; Dark ; 42.0; 2; Alp Car ; -0.74; 7000;occ; 84; 0;34271
8; 748.9; 19-SEP-2008 06:20:35; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;34271
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11; 2172.4; 19-SEP-2008 06:44:18; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;34271
12; 2400.7; 19-SEP-2008 06:48:07; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;34271
13; 2504.6; 19-SEP-2008 06:49:51; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;34271
14; 3005.7; 19-SEP-2008 06:58:12; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34271
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 3; 1091.0; 19-SEP-2008 21:31:40; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;34280
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 5; 2171.3; 19-SEP-2008 21:49:41; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;34280
 6; 2398.9; 19-SEP-2008 21:53:28; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34280
 7; 2499.4; 19-SEP-2008 21:55:09; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34280
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 9; 3102.5; 19-SEP-2008 22:05:12; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34280
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 4; -71.5; 19-SEP-2008 22:52:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34280
 5; 61.7; 19-SEP-2008 22:55:07; Dark ; 56.5; 2; Alp Car ; -0.74; 7000;occ; 113; 0;34281
 6; 753.5; 19-SEP-2008 23:06:39; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;34281
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 4; -70.5; 20-SEP-2008 00:33:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34281
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12; 2390.6; 24-SEP-2008 05:50:28; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;34342
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4; 2389.7; 24-SEP-2008 20:55:50; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;34351
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4; 28.4; 25-SEP-2008 01:18:17; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34354
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8; 787.3; 25-SEP-2008 04:52:08; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;34356
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4; -310.0; 25-SEP-2008 06:14:26; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;34356
5; -221.2; 25-SEP-2008 06:15:55; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;34356
6; -97.4; 25-SEP-2008 06:17:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34356
7; 30.5; 25-SEP-2008 06:20:07; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34357
8; 787.8; 25-SEP-2008 06:32:44; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34357
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 3; 2166.4; 25-SEP-2008 20:20:30; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34365
 4; 2388.5; 25-SEP-2008 20:24:12; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34365
 5; 2971.7; 25-SEP-2008 20:33:56; Bright; 57.0; 74; 11Bet Cas ; 2.27; 6600;occ; 114; 0;34365
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 4; 3064.7; 25-SEP-2008 08:51:17; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34358
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6; 5106.2; 26-SEP-2008 10:34:17; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;34373
7; 5539.7; 26-SEP-2008 10:41:31; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34373
8; 5741.9; 26-SEP-2008 10:44:53; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;34373
9; 5833.8; 26-SEP-2008 10:46:25; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;34373
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11; 6078.1; 26-SEP-2008 10:50:29; Dark ; 48.5; 161; Tau Pup ; 2.93; 4500;occ; 97; 0;34373
12; 6903.8; 26-SEP-2008 11:04:15; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;34373
13; 7159.1; 26-SEP-2008 11:08:30; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;34373
14; 7585.1; 26-SEP-2008 11:15:36; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;34373
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2; 2388.0; 26-SEP-2008 11:29:35; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;34374
3; 2968.8; 26-SEP-2008 11:39:16; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34374
4; 3057.6; 26-SEP-2008 11:40:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34374

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6; 5540.4; 26-SEP-2008 12:22:08; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;34374
7; 5742.9; 26-SEP-2008 12:25:30; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;34374
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9; 5950.8; 26-SEP-2008 12:28:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34374
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12; 7159.4; 26-SEP-2008 12:49:07; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;34374
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3; 2968.6; 26-SEP-2008 13:19:52; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34375
4; 3057.2; 26-SEP-2008 13:21:20; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34375
5; 4586.1; 26-SEP-2008 13:46:49; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34375
6; 5541.2; 26-SEP-2008 14:02:44; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;34375
7; 5743.8; 26-SEP-2008 14:06:07; Dark ; 45.5; 88; 31Eta CMA ; 2.45; 20000;occ; 91; 0;34375
8; 5836.1; 26-SEP-2008 14:07:39; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;34375
9; 5951.5; 26-SEP-2008 14:09:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34375
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11; 6905.6; 26-SEP-2008 14:25:29; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;34375
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3; 2387.9; 26-SEP-2008 14:50:47; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34376
4; 2968.3; 26-SEP-2008 15:00:27; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;34376
5; 3056.8; 26-SEP-2008 15:01:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34376
6; 4586.4; 26-SEP-2008 15:27:25; Bright; 52.5; 17; 78Bet Gem ; 1.16; 4500;occ; 105; 0;34376
7; 5541.9; 26-SEP-2008 15:43:21; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34376
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3; 2166.4; 26-SEP-2008 16:27:41; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34377
4; 2387.8; 26-SEP-2008 16:31:23; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34377
5; 2968.0; 26-SEP-2008 16:41:03; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34377
6; 3056.3; 26-SEP-2008 16:42:31; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;34377
7; 4586.5; 26-SEP-2008 17:08:01; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34377
8; 5542.6; 26-SEP-2008 17:23:58; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;34377
9; 5745.7; 26-SEP-2008 17:27:21; Dark ; 44.5; 88; 31Eta CMA ; 2.45; 20000;occ; 89; 0;34377
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11; 5953.0; 26-SEP-2008 17:30:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34377
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4; 2387.7; 26-SEP-2008 18:11:59; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;34378
5; 2967.6; 26-SEP-2008 18:21:39; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34378
6; 3055.8; 26-SEP-2008 18:23:07; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34378
7; 4586.8; 26-SEP-2008 18:48:38; Bright; 55.0; 17; 78Bet Gem ; 1.16; 4500;occ; 110; 0;34378
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9; 5746.6; 26-SEP-2008 19:07:58; Dark ; 45.0; 88; 31Eta CMA ; 2.45; 20000;occ; 90; 0;34378
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3; 2166.5; 27-SEP-2008 20:57:52; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34394
4; 2386.9; 27-SEP-2008 21:01:33; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34394
5; 2962.8; 27-SEP-2008 21:11:09; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34394

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7; 3429.1; 27-SEP-2008 21:18:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;34394
8; 3900.5; 27-SEP-2008 21:26:46; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;34394
9; 3990.0; 27-SEP-2008 21:28:16; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;34394
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4; 1586.4; 27-SEP-2008 07:23:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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3; 1948.4; 27-SEP-2008 07:29:27; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
4; 2053.1; 27-SEP-2008 07:31:11; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
5; 2361.5; 27-SEP-2008 07:36:20; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
6; 2630.7; 27-SEP-2008 07:40:49; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
7; 2869.5; 27-SEP-2008 07:44:48; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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9; 3278.0; 27-SEP-2008 07:51:36; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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21; 7105.6; 27-SEP-2008 08:55:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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3; 1947.4; 27-SEP-2008 09:10:02; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
4; 2053.1; 27-SEP-2008 09:11:47; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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6; 2630.3; 27-SEP-2008 09:21:25; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
7; 2870.4; 27-SEP-2008 09:25:25; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
8; 3107.3; 27-SEP-2008 09:29:22; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
9; 3277.6; 27-SEP-2008 09:32:12; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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12; 4012.0; 27-SEP-2008 09:44:26; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
13; 4278.7; 27-SEP-2008 09:48:53; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
14; 4732.6; 27-SEP-2008 09:56:27; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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17; 5500.5; 27-SEP-2008 10:09:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
18; 5813.8; 27-SEP-2008 10:14:28; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34387
19; 6784.3; 27-SEP-2008 10:30:39; Dark ; 105.0; 9; Alp Eri ; 0.45; 24000;occ; 210; 0;34387
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3; 2909.5; 27-SEP-2008 11:06:40; Bright; 98.5; 68; 18Alp Cas ; 2.22; 4500;occ; 197; 0;34388
4; 3377.4; 27-SEP-2008 11:14:28; Bright; 88.5; 49; 1Alp UMi ; 1.99; 6300;occ; 177; 0;34388
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6; 4527.3; 27-SEP-2008 11:33:38; Bright; 85.5; 166; 17Eps Leo ; 2.98; 6000;occ; 171; 0;34388
7; 5092.7; 27-SEP-2008 11:43:03; Dark ; 99.0; 48; 30Alp Hya ; 1.98; 4100;occ; 198; 0;34388
8; 5492.8; 27-SEP-2008 11:49:43; Dark ; 100.0; 132; 15Rho Pup ; 2.80; 6900;occ; 200; 0;34388
9; 5674.5; 27-SEP-2008 11:52:45; Dark ; 97.5; 65; Lam Vel ; 2.20; 4400;occ; 195; 0;34388

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13; 7110.4; 27-SEP-2008 12:16:41; Dark ; 96.0; 84; Alp Phe ; 2.40; 4500;occ; 192; 0;34388
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 4; 3377.4; 27-SEP-2008 12:55:03; Bright; 88.0; 49; 1Alp UMi ; 1.99; 6300;occ; 176; 0;34389
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 6; 4527.4; 27-SEP-2008 13:14:13; Bright; 85.0; 166; 17Eps Leo ; 2.98; 6000;occ; 170; 0;34389
 7; 5092.9; 27-SEP-2008 13:23:39; Dark ; 101.0; 48; 30Alp Hya ; 1.98; 4100;occ; 202; 0;34389
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 16; 6112.1; 29-SEP-2008 17:39:12; Dark ; 48.0; 161; Tau Pup ; 2.93; 4500;occ; 96; 0;34420
 17; 6196.2; 29-SEP-2008 17:40:36; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;34420
 18; 6762.6; 29-SEP-2008 17:50:03; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34420
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 5; 79.7; 30-SEP-2008 02:02:15; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;34426
 6; 163.8; 30-SEP-2008 02:03:39; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;34426
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 8; 816.1; 30-SEP-2008 02:14:32; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;34426
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 13; 2953.8; 30-SEP-2008 02:50:09; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;34426
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15; 6123.8; 30-SEP-2008 20:28:59; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;34436
16; 6208.1; 30-SEP-2008 20:30:23; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;34436
17; 6768.6; 30-SEP-2008 20:39:44; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34436
18; 6856.3; 30-SEP-2008 20:41:11; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;34436

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