

GOMOS Daily Report 07-JUN-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	10JUN2008 12:03:56
Data source version	GOMOS/5.00
Start time of products	07-06-2008 (07JUN2008 00:00:00)
Stop time of products	08-06-2008 (08JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

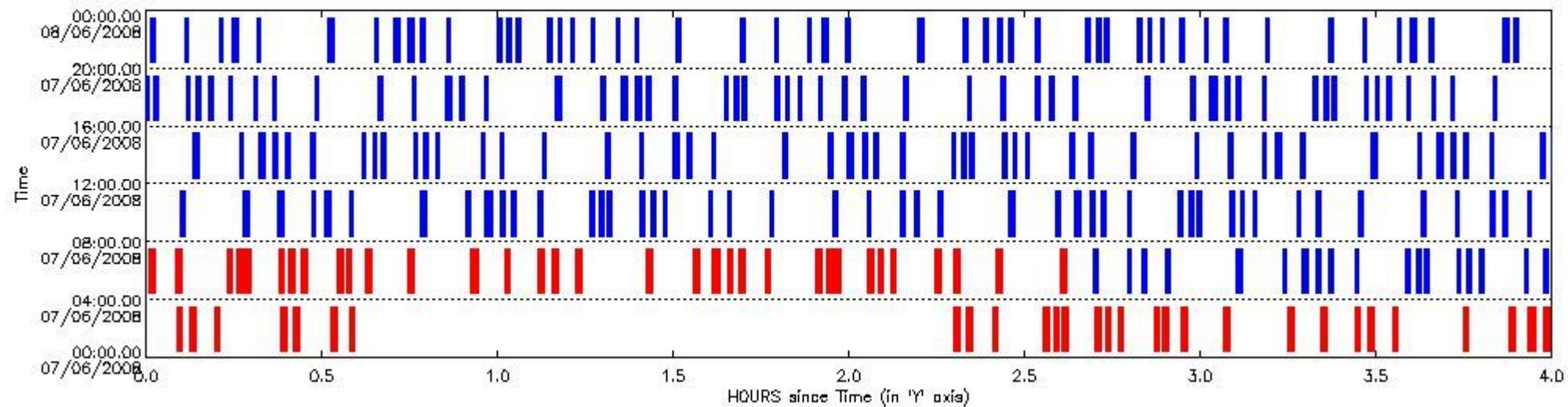
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
07-JUN-2008 00:05:08	57Gam1And	73	32778
07-JUN-2008 00:07:27	43BetAnd	53	32778
07-JUN-2008 00:11:36	6BetAri	105	32778
07-JUN-2008 00:23:03	DSA1068	0	32778
07-JUN-2008 00:24:58	16BetCet	52	32778
07-JUN-2008 00:31:33	AlpPhe	84	32778
07-JUN-2008 00:34:40	24AlpPsA	18	32778
07-JUN-2008 02:17:55	BetGru	63	32780
07-JUN-2008 02:19:53	AlpGru	31	32780
07-JUN-2008 02:24:26	AlpPav	45	32780
07-JUN-2008 02:33:10	TheSco	40	32780
07-JUN-2008 02:34:56	35LamSco	25	32780
07-JUN-2008 02:36:17	10Gam2Sgr	167	32780
07-JUN-2008 02:41:57	35EtaOph	86	32780
07-JUN-2008 02:43:44	13ZetOph	98	32780

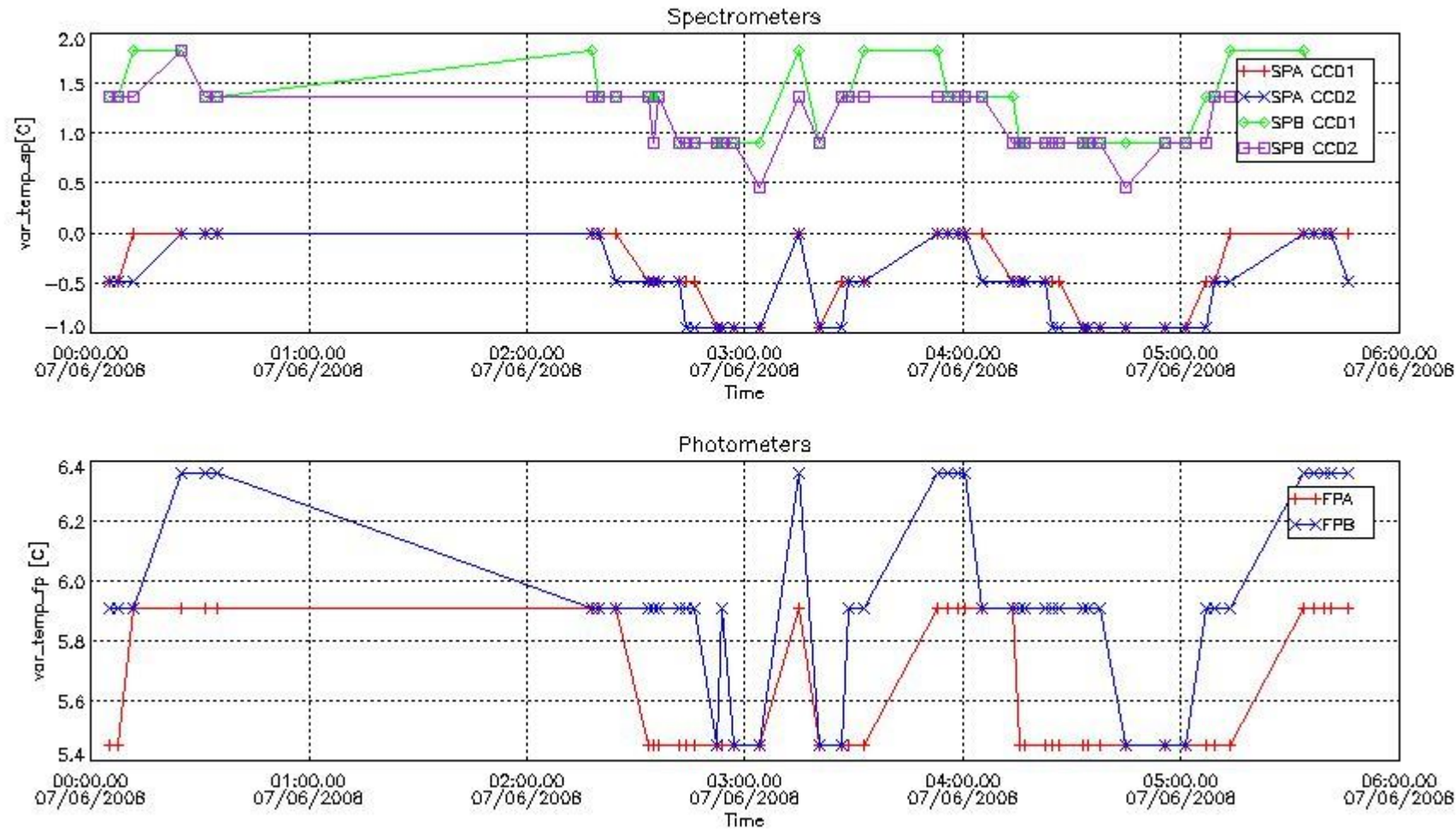
07-JUN-2008 02:45:52	1DelOph	120	32780
07-JUN-2008 02:52:06	55AlpOph	59	32780
07-JUN-2008 02:53:32	27BetHer	127	32780
07-JUN-2008 02:56:47	40ZetHer	133	32780
07-JUN-2008 03:04:00	23BetDra	130	32780
07-JUN-2008 03:14:49	5AlpCep	89	32780
07-JUN-2008 03:20:35	27GamCas	76	32780
07-JUN-2008 03:26:20	57Gam1And	73	32780
07-JUN-2008 03:28:39	43BetAnd	53	32780
07-JUN-2008 03:32:48	6BetAri	105	32780
07-JUN-2008 03:44:50	DSA1034	0	32780
07-JUN-2008 03:52:46	AlpPhe	84	32780
07-JUN-2008 03:55:55	24AlpPsA	18	32781
07-JUN-2008 03:58:31	BetGru	63	32781
07-JUN-2008 04:00:30	AlpGru	31	32781
07-JUN-2008 04:05:03	AlpPav	45	32781
07-JUN-2008 04:13:47	TheSco	40	32781
07-JUN-2008 04:15:32	35LamSco	25	32781
07-JUN-2008 04:16:53	10Gam2Sgr	167	32781
07-JUN-2008 04:22:33	35EtaOph	86	32781
07-JUN-2008 04:24:20	13ZetOph	98	32781
07-JUN-2008 04:26:28	1DelOph	120	32781
07-JUN-2008 04:32:41	55AlpOph	59	32781
07-JUN-2008 04:34:08	27BetHer	127	32781
07-JUN-2008 04:37:22	40ZetHer	133	32781
07-JUN-2008 04:44:35	23BetDra	130	32781
07-JUN-2008 04:55:24	5AlpCep	89	32781
07-JUN-2008 05:01:11	27GamCas	76	32781
07-JUN-2008 05:06:56	57Gam1And	73	32781
07-JUN-2008 05:09:15	43BetAnd	53	32781
07-JUN-2008 05:13:24	6BetAri	105	32781
07-JUN-2008 05:25:27	DSA1034	0	32781
07-JUN-2008 05:33:22	AlpPhe	84	32781
07-JUN-2008 05:36:32	24AlpPsA	18	32782
07-JUN-2008 05:39:08	BetGru	63	32782
07-JUN-2008 05:41:07	AlpGru	31	32782
07-JUN-2008 05:45:39	AlpPav	45	32782
07-JUN-2008 05:54:23	TheSco	40	32782
07-JUN-2008 05:56:09	35LamSco	25	32782
07-JUN-2008 05:57:29	10Gam2Sgr	167	32782
07-JUN-2008 06:03:09	35EtaOph	86	32782
07-JUN-2008 06:04:56	13ZetOph	98	32782
07-JUN-2008 06:07:04	1DelOph	120	32782
07-JUN-2008 06:14:43	27BetHer	127	32782
07-JUN-2008 06:17:58	40ZetHer	133	32782
07-JUN-2008 06:25:11	23BetDra	130	32782
07-JUN-2008 06:36:00	5AlpCep	89	32782

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_1PNPDE20080607_000511_000000492069_00159_32778_2645.N1	07-JUN-2008 00:05:11	Bright	49.000	73	57Gam1And	2.2600	13100.	98	32778	No
2	GOM_TRA_1PNPDE20080607_000729_000000552069_00159_32778_2646.N1	07-JUN-2008 00:07:29	Bright	55.000	53	43Bet And	2.0480	3300.0	110	32778	No
3	GOM_TRA_1PNPDE20080607_001138_000000432069_00159_32778_2647.N1	07-JUN-2008 00:11:38	Twilight	43.000	105	6Bet Ari	2.6450	8900.0	86	32778	No
4	GOM_TRA_1PNPDE20080607_002501_000000492069_00159_32778_2758.N1	07-JUN-2008 00:25:01	Dark	48.500	52	16Bet Cet	2.0370	4500.0	97	32778	No
5	GOM_TRA_1PNPDE20080607_003135_000000422069_00159_32778_2759.N1	07-JUN-2008 00:31:35	Dark	41.500	84	Alp Phe	2.3970	4500.0	83	32778	No
6	GOM_TRA_1PNPDE20080607_003443_000000452069_00160_32779_2760.N1	07-JUN-2008 00:34:43	Dark	44.500	18	24Alp PsA	1.1660	9700.0	89	32779	No
7	GOM_TRA_1PNPDE20080607_021757_000000472069_00161_32780_2905.N1	07-JUN-2008 02:17:57	Dark	47.000	63	Bet Gru	2.1500	2800.0	94	32780	No

8	GOM_TRA_1PNPDE20080607_021956_000000472069_00161_32780_2906.N1	07-JUN-2008 02:19:56	Dark	46.500	31	Alp Gru	1.7340	15200.	93	32780	No
9	GOM_TRA_1PNPDE20080607_022429_000000422069_00161_32780_2907.N1	07-JUN-2008 02:24:29	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	32780	No
10	GOM_TRA_1PNPDE20080607_023313_000000442069_00161_32780_2908.N1	07-JUN-2008 02:33:13	Straylight	44.000	40	The Sco	1.8590	7100.0	88	32780	No
11	GOM_TRA_1PNPDE20080607_023458_000000462069_00161_32780_2909.N1	07-JUN-2008 02:34:58	Tw_i_and_stray	45.500	25	35Lam Sco	1.6200	28000.	91	32780	No
12	GOM_TRA_1PNPDE20080607_023619_000000472069_00161_32780_2910.N1	07-JUN-2008 02:36:19	Tw_i_and_stray	47.000	167	10Gam2Sgr	2.9840	4500.0	94	32780	No
13	GOM_TRA_1PNPDE20080607_024159_000000402069_00161_32780_2911.N1	07-JUN-2008 02:41:59	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	32780	No
14	GOM_TRA_1PNPDE20080607_024346_000000562069_00161_32780_2912.N1	07-JUN-2008 02:43:46	Bright	56.000	98	13Zet Oph	2.5710	30000.	112	32780	No
15	GOM_TRA_1PNPDE20080607_024554_000000382069_00161_32780_2913.N1	07-JUN-2008 02:45:54	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	32780	No
16	GOM_TRA_1PNPDE20080607_025208_000000512069_00161_32780_2914.N1	07-JUN-2008 02:52:08	Bright	51.000	59	55Alp Oph	2.0800	8900.0	102	32780	No
17	GOM_TRA_1PNPDE20080607_025335_000000412069_00161_32780_2915.N1	07-JUN-2008 02:53:35	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	32780	No
18	GOM_TRA_1PNPDE20080607_025649_000000442069_00161_32780_2916.N1	07-JUN-2008 02:56:49	Bright	44.000	133	40Zet Her	2.8070	6000.0	88	32780	No
19	GOM_TRA_1PNPDE20080607_030402_000000402069_00161_32780_2917.N1	07-JUN-2008 03:04:02	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	32780	No
20	GOM_TRA_1PNPDE20080607_031452_000000472069_00161_32780_3076.N1	07-JUN-2008 03:14:52	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	32780	Yes
21	GOM_TRA_1PNPDE20080607_032037_000000372069_00161_32780_3077.N1	07-JUN-2008 03:20:37	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	32780	No
22	GOM_TRA_1PNPDE20080607_032623_000000542069_00161_32780_3078.N1	07-JUN-2008 03:26:23	Bright	54.000	73	57Gam1And	2.2600	13100.	108	32780	No
23	GOM_TRA_1PNPDE20080607_032841_000000592069_00161_32780_3079.N1	07-JUN-2008 03:28:41	Bright	59.000	53	43Bet And	2.0480	3300.0	118	32780	No
24	GOM_TRA_1PNPDE20080607_033251_000000432069_00161_32780_3080.N1	07-JUN-2008 03:32:51	Twilight	42.500	105	6Bet Ari	2.6450	8900.0	85	32780	No
25	GOM_TRA_1PNPDE20080607_035248_000000452069_00161_32780_3081.N1	07-JUN-2008 03:52:48	Dark	44.500	84	Alp Phe	2.3970	4500.0	89	32780	No
26	GOM_TRA_1PNPDE20080607_035558_000000602069_00162_32781_3082.N1	07-JUN-2008 03:55:58	Dark	60.000	18	24Alp PsA	1.1660	9700.0	120	32781	No
27	GOM_TRA_1PNPDE20080607_035834_000000572069_00162_32781_3083.N1	07-JUN-2008 03:58:34	Dark	57.000	63	Bet Gru	2.1500	2800.0	114	32781	No
28	GOM_TRA_1PNPDE20080607_040033_000000472069_00162_32781_3084.N1	07-JUN-2008 04:00:33	Dark	46.500	31	Alp Gru	1.7340	15200.	93	32781	No
29	GOM_TRA_1PNPDE20080607_040505_000000422069_00162_32781_3085.N1	07-JUN-2008 04:05:05	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	32781	No
30	GOM_TRA_1PNPDE20080607_041349_000000452069_00162_32781_3086.N1	07-JUN-2008 04:13:49	Straylight	44.500	40	The Sco	1.8590	7100.0	89	32781	No
31	GOM_TRA_1PNPDE20080607_041535_000000442069_00162_32781_3087.N1	07-JUN-2008 04:15:35	Tw_i_and_stray	43.500	25	35Lam Sco	1.6200	28000.	87	32781	No
32	GOM_TRA_1PNPDE20080607_041655_000000502069_00162_32781_3088.N1	07-JUN-2008 04:16:55	Tw_i_and_stray	49.500	167	10Gam2Sgr	2.9840	4500.0	99	32781	No
33	GOM_TRA_1PNPDE20080607_042235_000000422069_00162_32781_3089.N1	07-JUN-2008 04:22:35	Bright	42.000	86	35Eta Oph	2.4300	10200.	84	32781	No
34	GOM_TRA_1PNPDE20080607_042423_000000392069_00162_32781_3090.N1	07-JUN-2008 04:24:23	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	32781	No
35	GOM_TRA_1PNPDE20080607_042630_000000382069_00162_32781_3091.N1	07-JUN-2008 04:26:30	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	32781	No
36	GOM_TRA_1PNPDE20080607_043244_000000482069_00162_32781_3092.N1	07-JUN-2008 04:32:44	Bright	48.000	59	55Alp Oph	2.0800	8900.0	96	32781	No
37	GOM_TRA_1PNPDE20080607_043410_000000562069_00162_32781_3093.N1	07-JUN-2008 04:34:10	Bright	56.000	127	27Bet Her	2.7810	4700.0	112	32781	No
38	GOM_TRA_1PNPDE20080607_043725_000000392069_00162_32781_3094.N1	07-JUN-2008 04:37:25	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	32781	No
39	GOM_TRA_1PNPDE20080607_044438_000000442069_00162_32781_3095.N1	07-JUN-2008 04:44:38	Bright	43.500	130	23Bet Dra	2.7990	5800.0	87	32781	No
40	GOM_TRA_1PNPDE20080607_045527_000000462069_00162_32781_3096.N1	07-JUN-2008 04:55:27	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	32781	No
41	GOM_TRA_1PNPDE20080607_050113_000000572069_00162_32781_3220.N1	07-JUN-2008 05:01:13	Bright	57.000	76	27Gam Cas	2.3000	30000.	114	32781	No
42	GOM_TRA_1PNPDE20080607_050659_000000352069_00162_32781_3221.N1	07-JUN-2008 05:06:59	Bright	35.000	73	57Gam1And	2.2600	13100.	70	32781	No
43	GOM_TRA_1PNPDE20080607_050918_000000602069_00162_32781_3222.N1	07-JUN-2008 05:09:18	Bright	60.000	53	43Bet And	2.0480	3300.0	120	32781	No
44	GOM_TRA_1PNPDE20080607_051327_000000432069_00162_32781_3223.N1	07-JUN-2008 05:13:27	Twilight	43.000	105	6Bet Ari	2.6450	8900.0	86	32781	No
45	GOM_TRA_1PNPDE20080607_053325_000000472069_00162_32781_3224.N1	07-JUN-2008 05:33:25	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	32781	No
46	GOM_TRA_1PNPDE20080607_053635_000000672069_00163_32782_3225.N1	07-JUN-2008 05:36:35	Dark	67.000	18	24Alp PsA	1.1660	9700.0	134	32782	No
47	GOM_TRA_1PNPDE20080607_053911_000000592069_00163_32782_3226.N1	07-JUN-2008 05:39:11	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	32782	No
48	GOM_TRA_1PNPDE20080607_054110_000000472069_00163_32782_3227.N1	07-JUN-2008 05:41:10	Dark	47.000	31	Alp Gru	1.7340	15200.	94	32782	No
49	GOM_TRA_1PNPDE20080607_054542_000000442069_00163_32782_3228.N1	07-JUN-2008 05:45:42	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	32782	No

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



4. Overview of dark signal processing per product

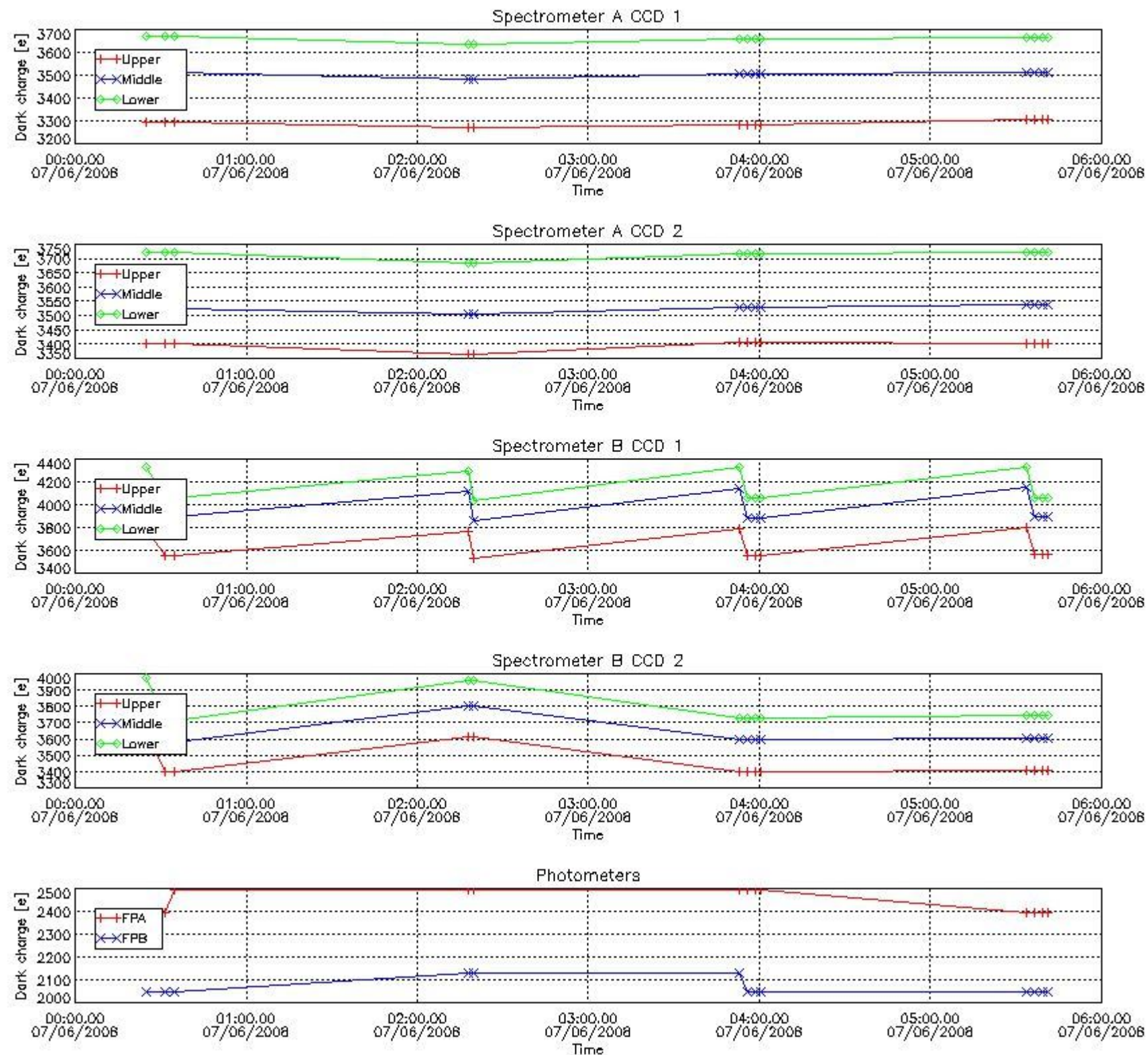
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20080607_021757_000000472069_00161_32780_2905.N1	DC map used
GOM_TRA_1PNPDE20080607_021956_000000472069_00161_32780_2906.N1	DC map used
GOM_TRA_1PNPDE20080607_022429_000000422069_00161_32780_2907.N1	DC map used
GOM_TRA_1PNPDE20080607_023313_000000442069_00161_32780_2908.N1	DC map used
GOM_TRA_1PNPDE20080607_023458_000000462069_00161_32780_2909.N1	DC map used
GOM_TRA_1PNPDE20080607_023619_000000472069_00161_32780_2910.N1	DC map used
GOM_TRA_1PNPDE20080607_024159_000000402069_00161_32780_2911.N1	DC map used
GOM_TRA_1PNPDE20080607_024346_000000562069_00161_32780_2912.N1	DC map used
GOM_TRA_1PNPDE20080607_024554_000000382069_00161_32780_2913.N1	DC map used
GOM_TRA_1PNPDE20080607_025208_000000512069_00161_32780_2914.N1	DC map used
GOM_TRA_1PNPDE20080607_025335_000000412069_00161_32780_2915.N1	DC map used
GOM_TRA_1PNPDE20080607_025649_000000442069_00161_32780_2916.N1	DC map used
GOM_TRA_1PNPDE20080607_030402_000000402069_00161_32780_2917.N1	DC map used

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



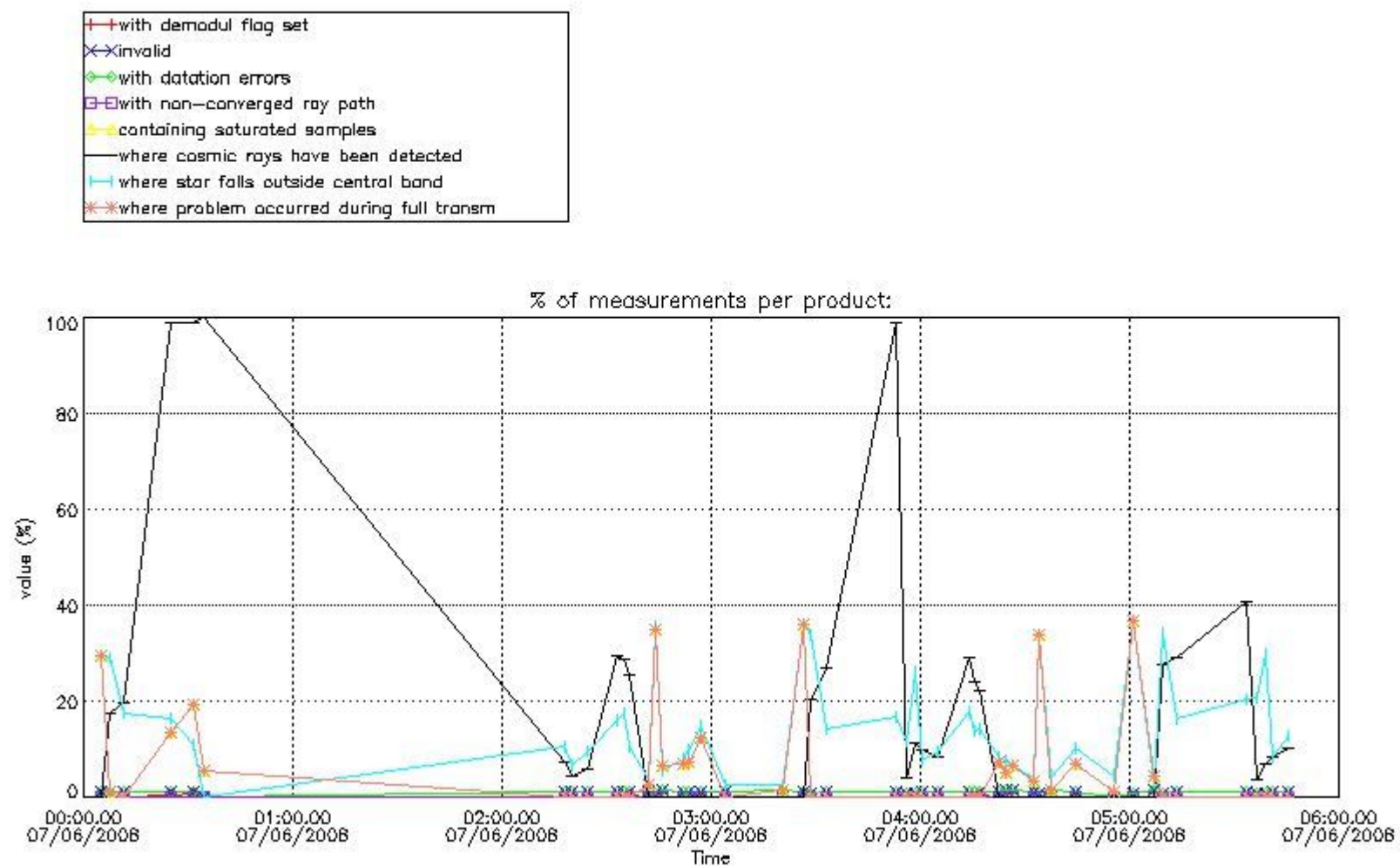
5. Demodulation flag and quality information monitoring

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.

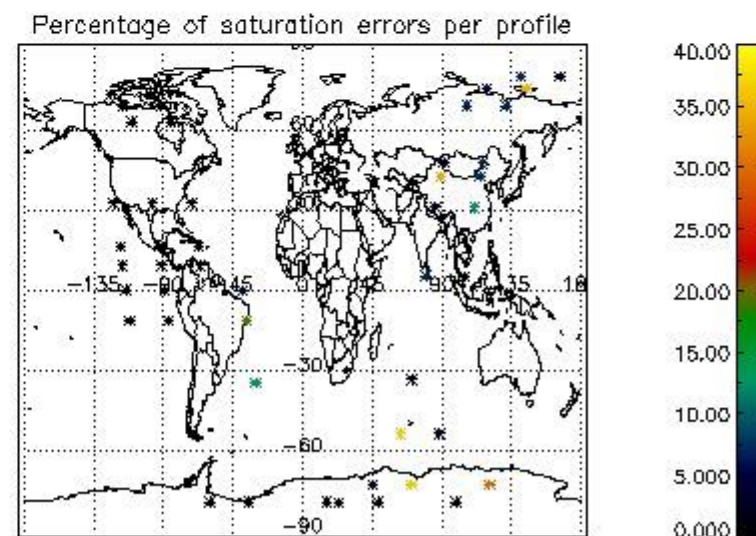
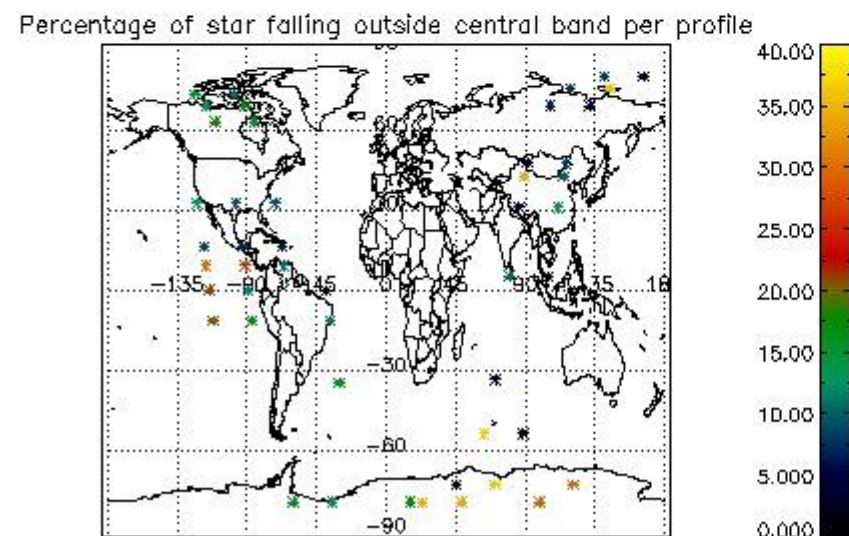
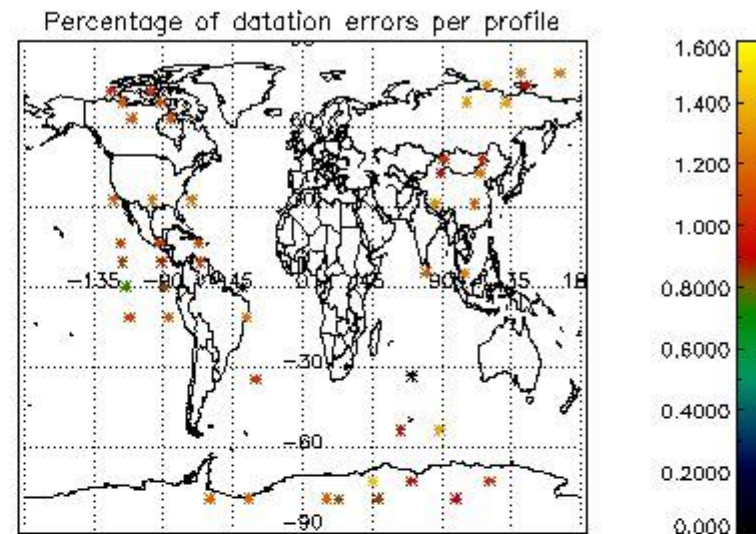
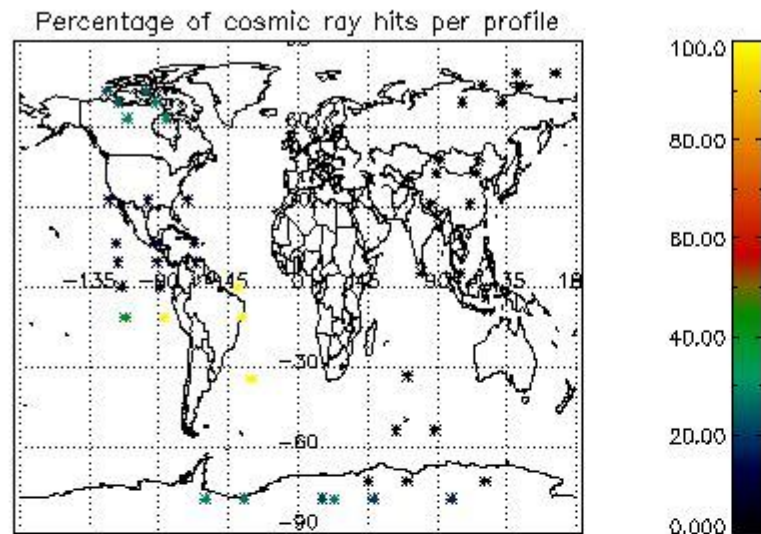
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.9167 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



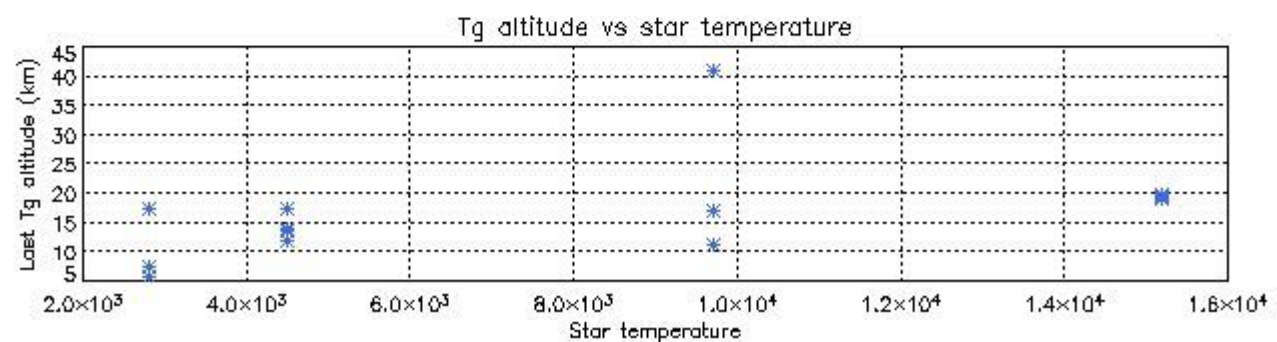
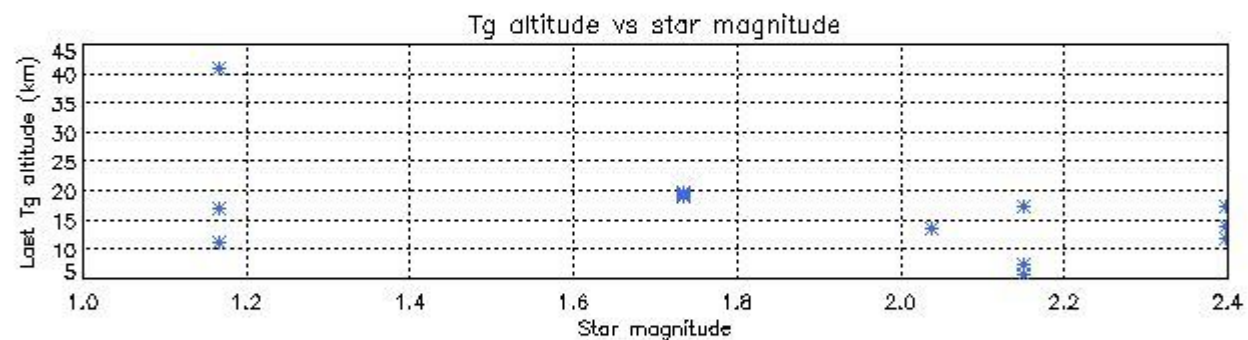
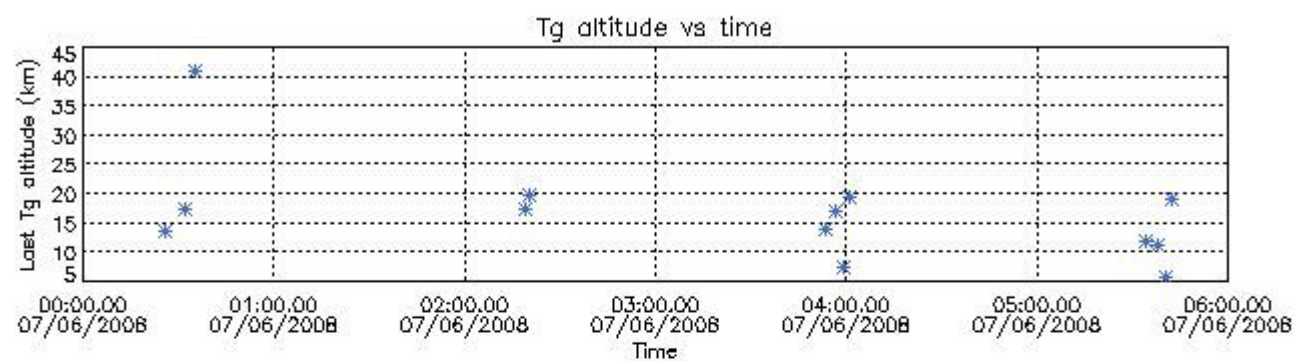
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.531	15.637	13.331
St. deviation:	8.5899	8.2494	0.44407
Maximum:	40.899	25.310	13.819
Minimum:	5.7755	3.9046	12.951
Number of data:	13.000	23.000	3.0000

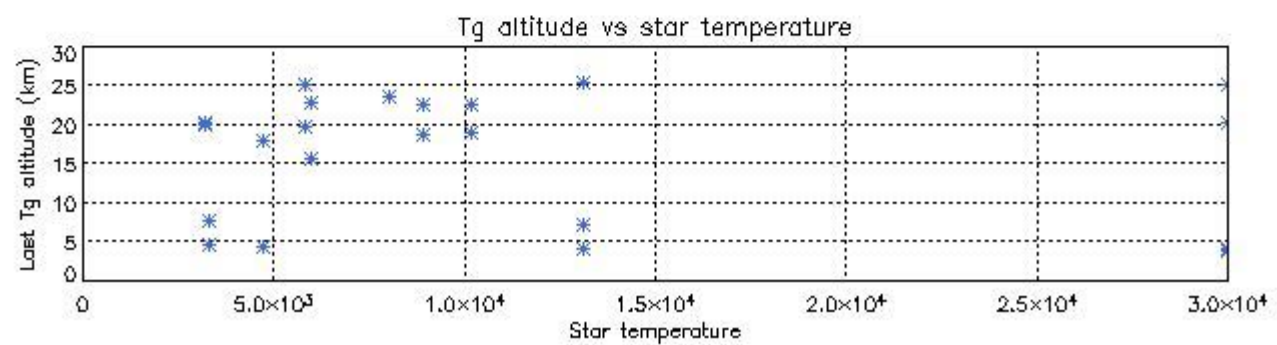
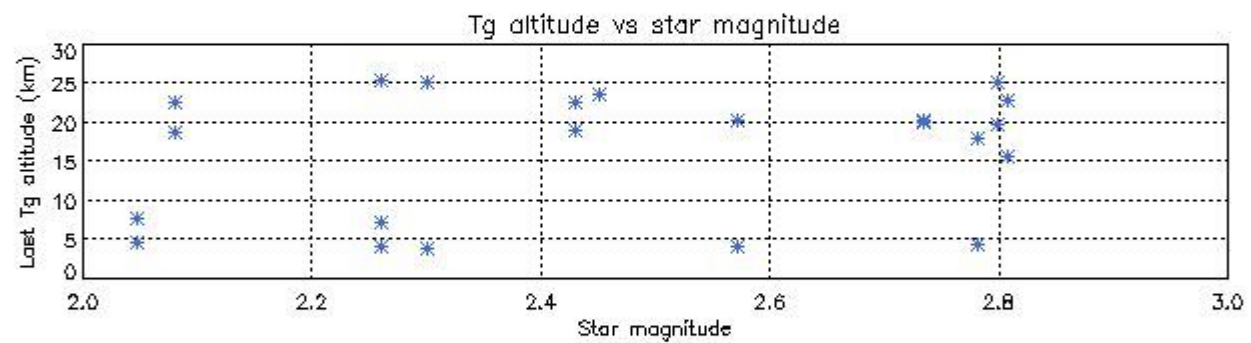
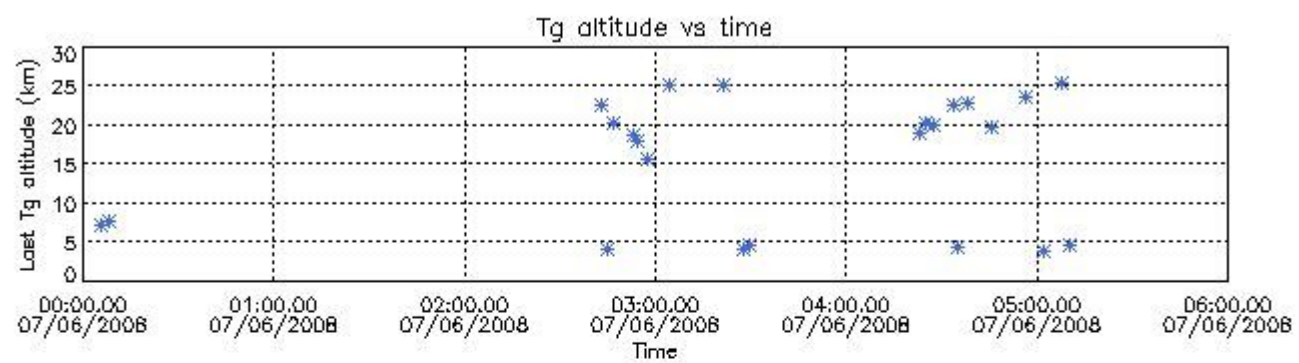
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



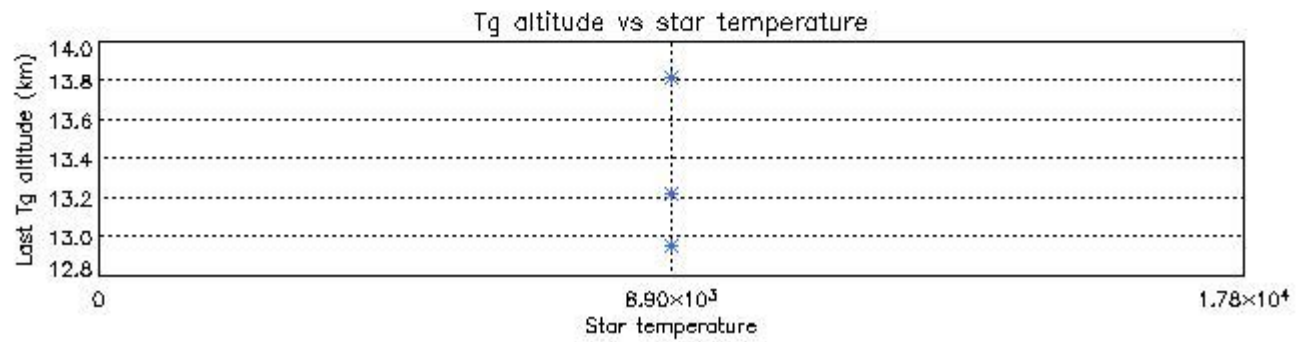
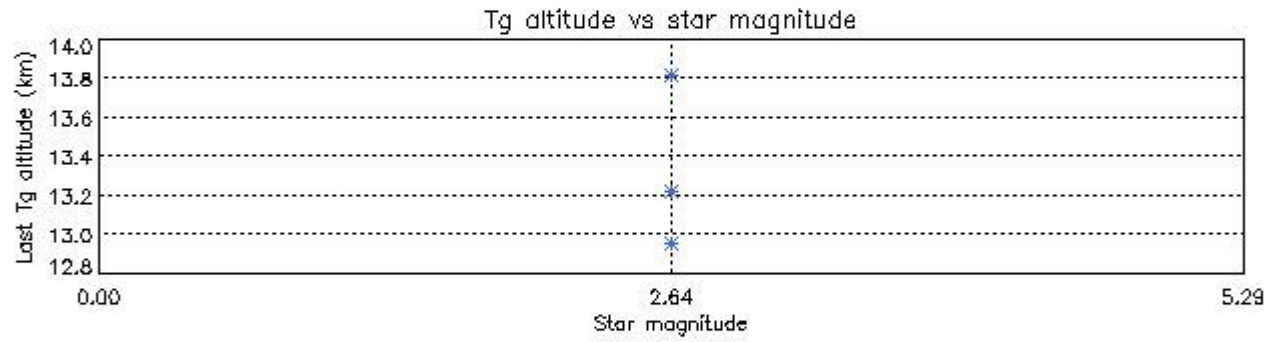
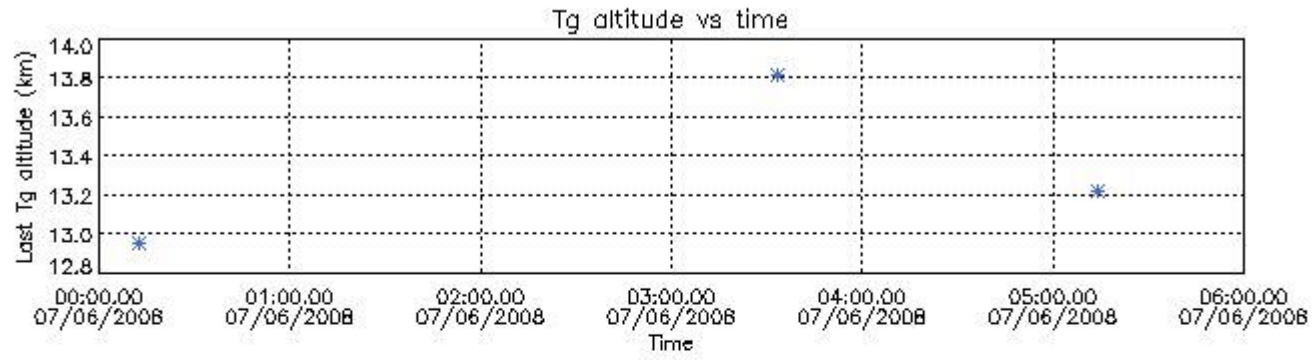
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

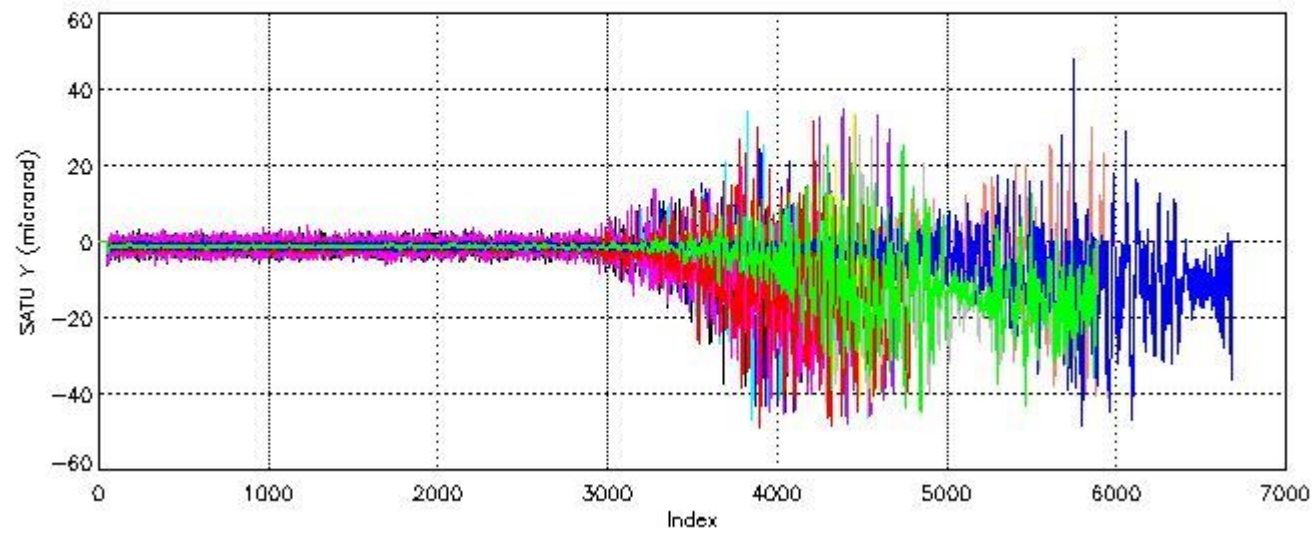
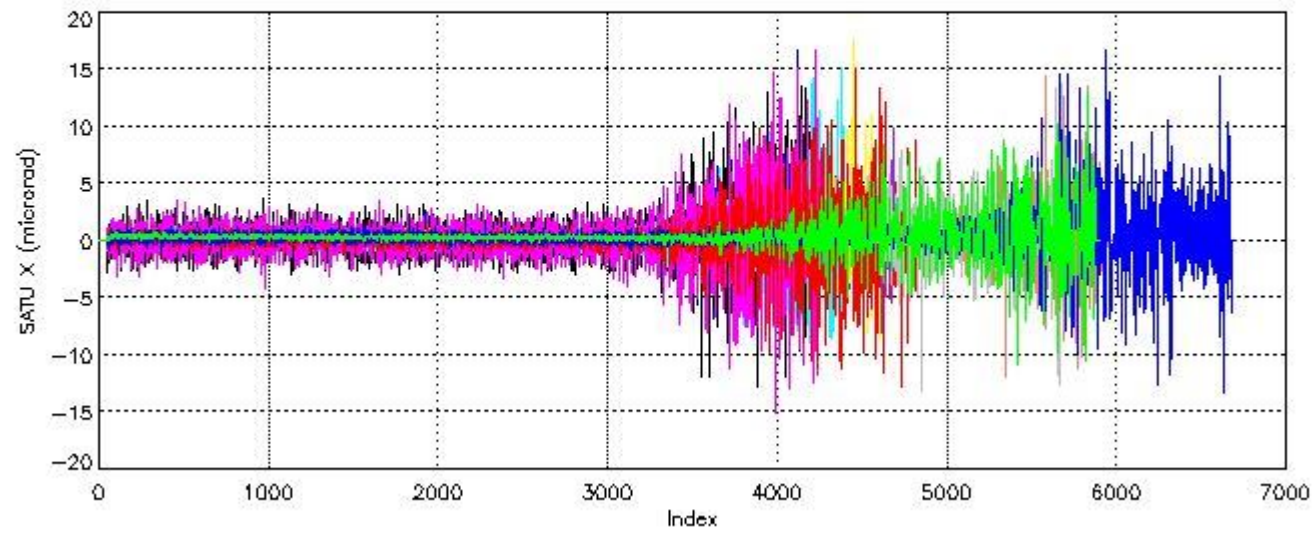


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.25157	-1.1875	0.27376	-1.2327
St. deviation:	0.33971	0.69762	0.70337	1.1156
Maximum:	1.9000	1.5000	4.7000	5.6000
Minimum:	-1.8000	-4.1000	-4.5000	-6.8000

Number of data:	14750.	14750.	21650.	21650.
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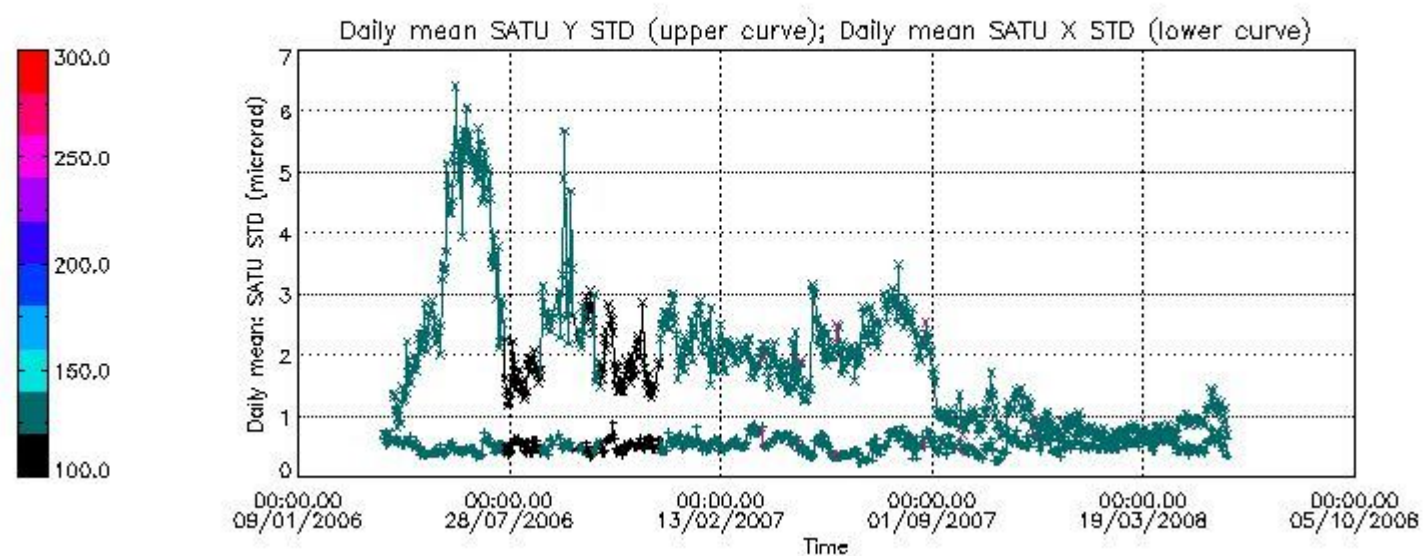
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

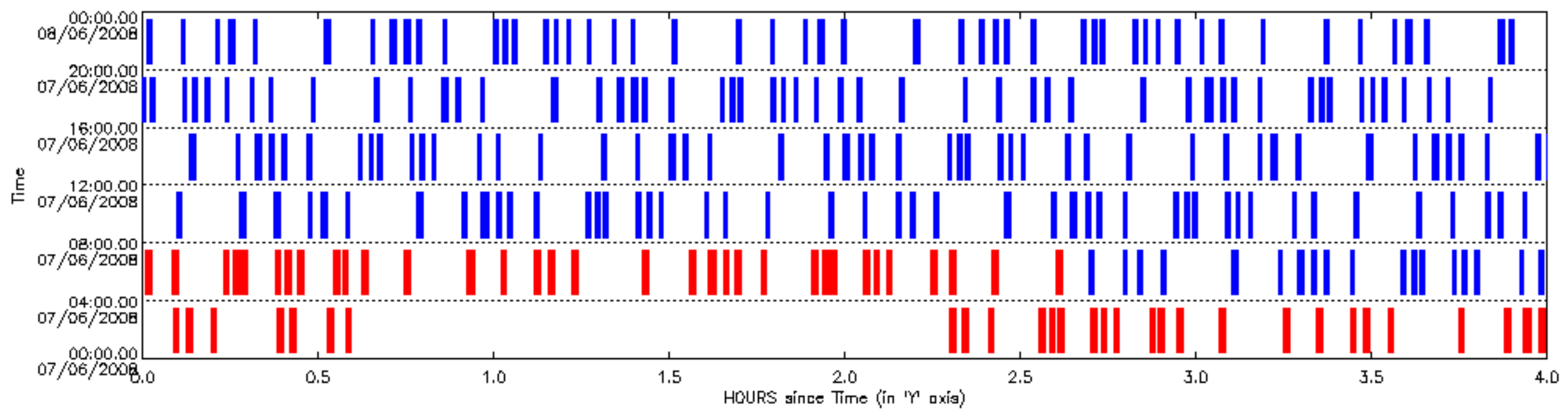
Lower curve: STD of SATU X axis

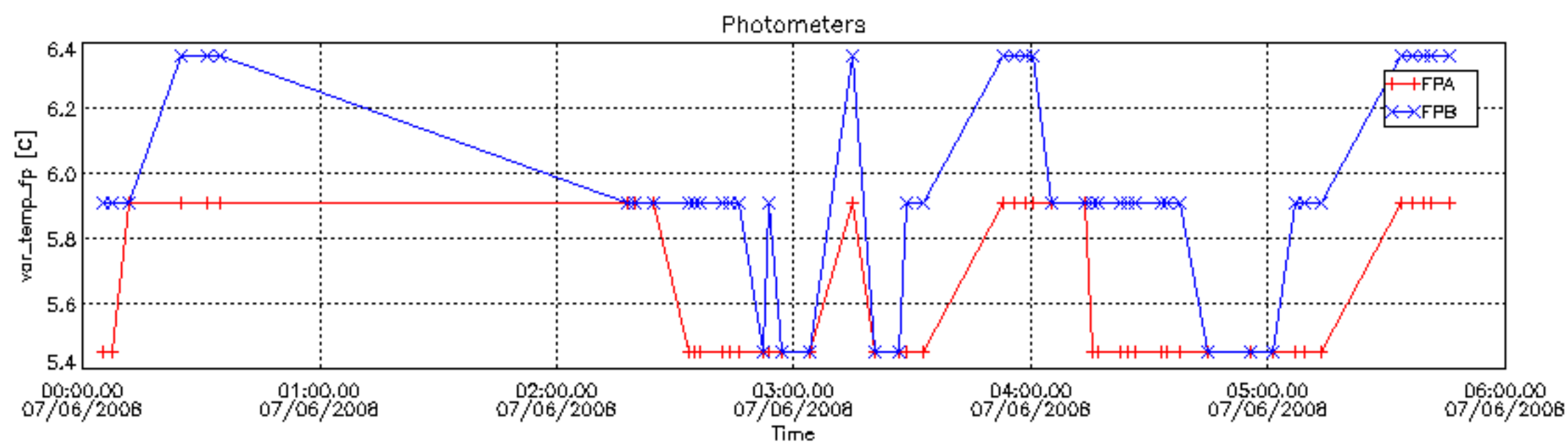
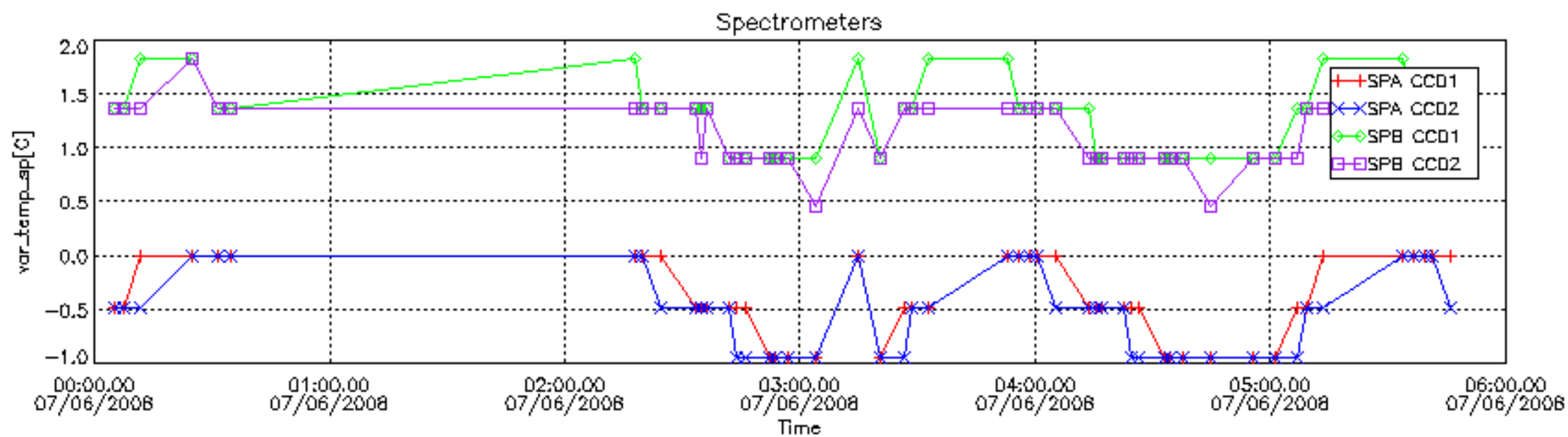


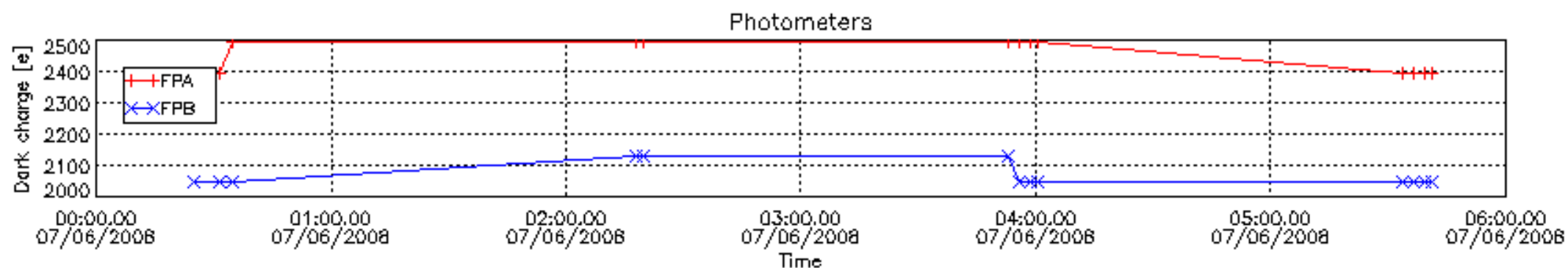
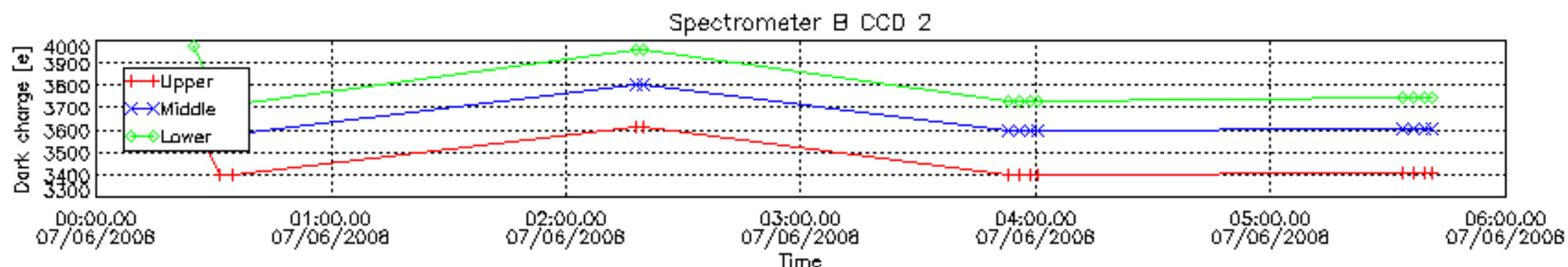
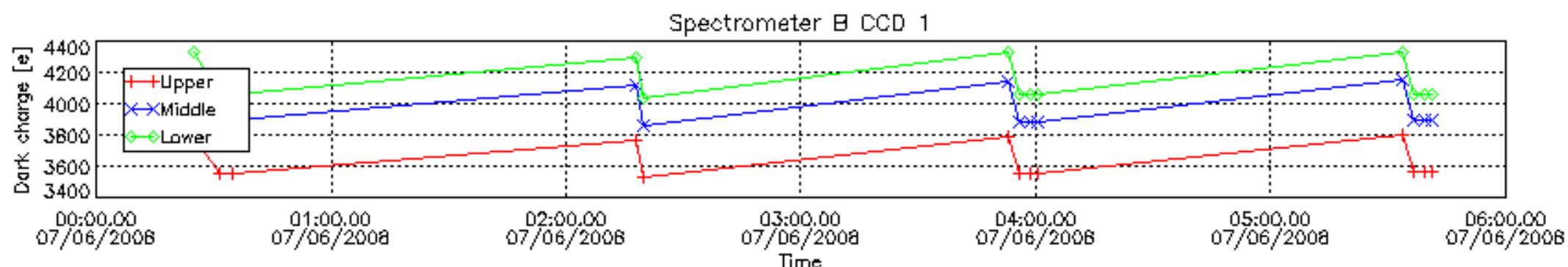
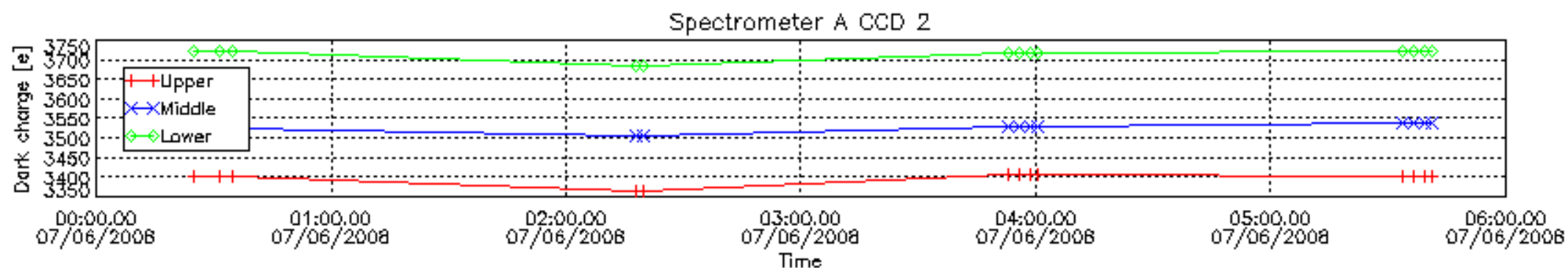
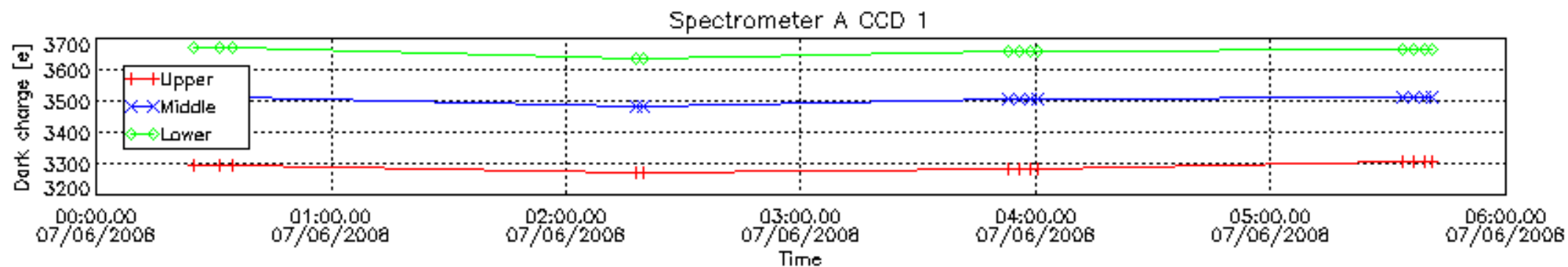
8. Auxiliary Data Files used for the production reported in section 2.4

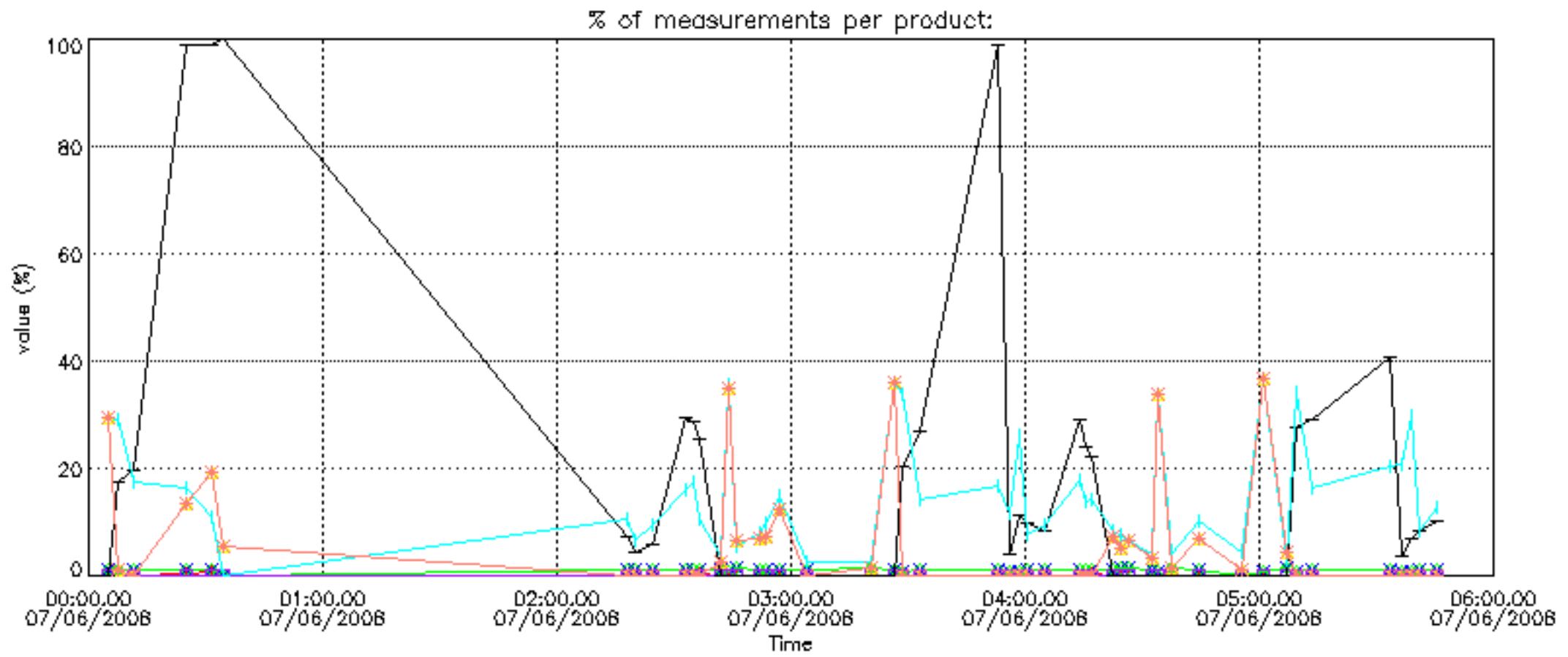
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-JUN-2008 00:05:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080530_132758_20080528_000000_20100101_000000	1	07-JUN-2008 00:05:11
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-JUN-2008 00:05:11
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-JUN-2008 00:05:11
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-JUN-2008 00:05:11
ECMWF_FILE	AUX_ECF_AXNECM20080606_072113_20080606_210000_20080607_090000	1	07-JUN-2008 00:05:11
ECMWF_FILE	AUX_ECF_AXNECM20080606_192115_20080607_030000_20080607_150000	20	07-JUN-2008 03:14:52
OPTIONAL_ECMWF_FILE	MISSING	1	07-JUN-2008 00:05:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080606_205302_000060572069_00157_32776_5684.N1	1	07-JUN-2008 00:05:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080606_223918_000057382069_00158_32777_5685.N1	4	07-JUN-2008 00:25:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080607_002015_000054192069_00159_32778_5686.N1	7	07-JUN-2008 02:17:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080607_015553_000041442069_00160_32779_5687.N1	20	07-JUN-2008 03:14:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080607_031016_000057382069_00161_32780_5688.N1	41	07-JUN-2008 05:01:13

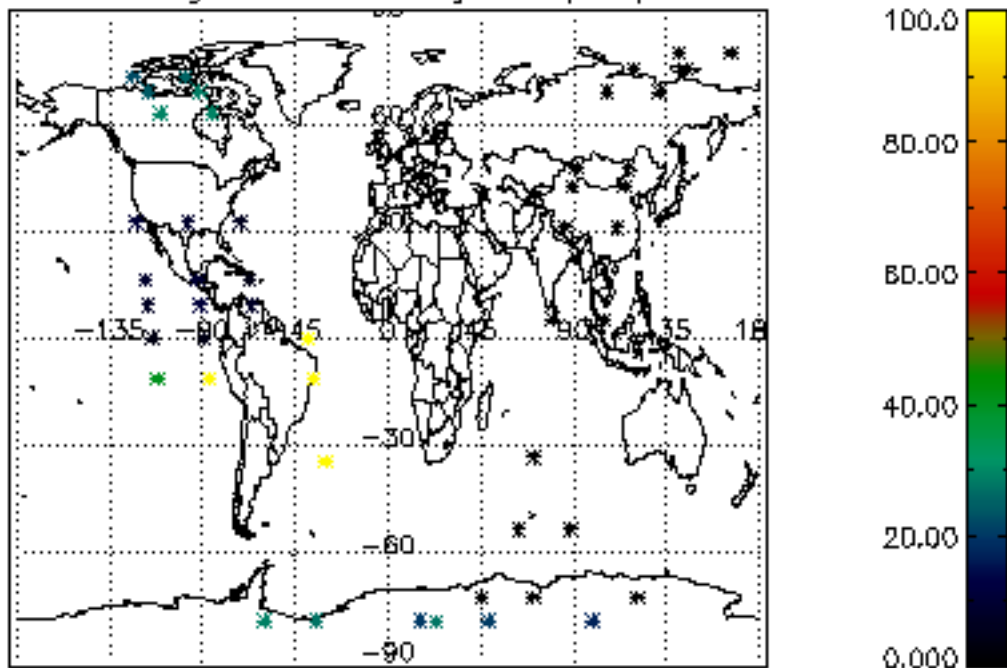




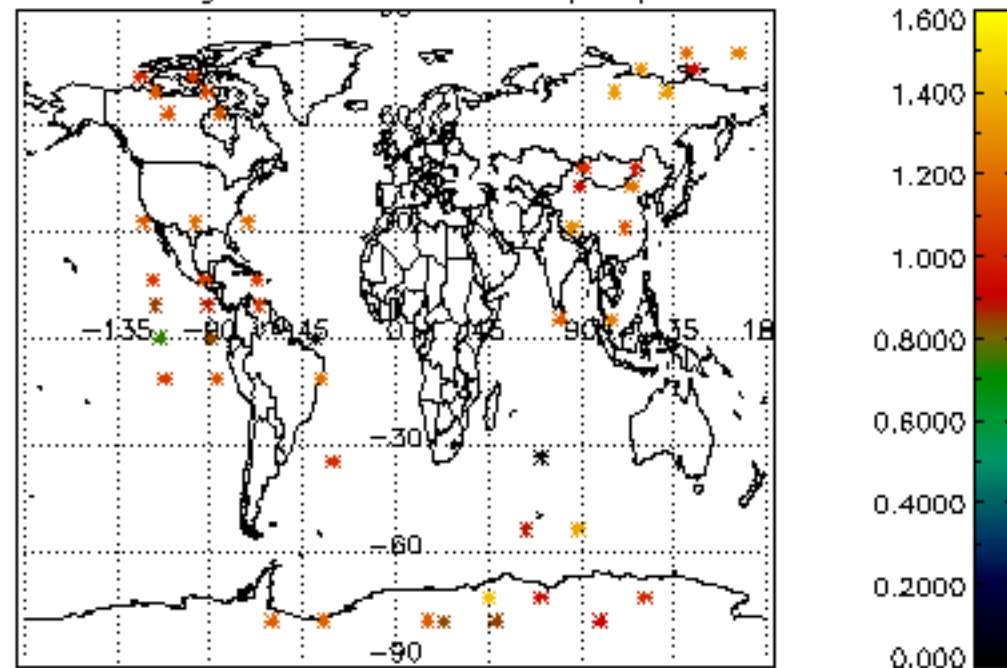




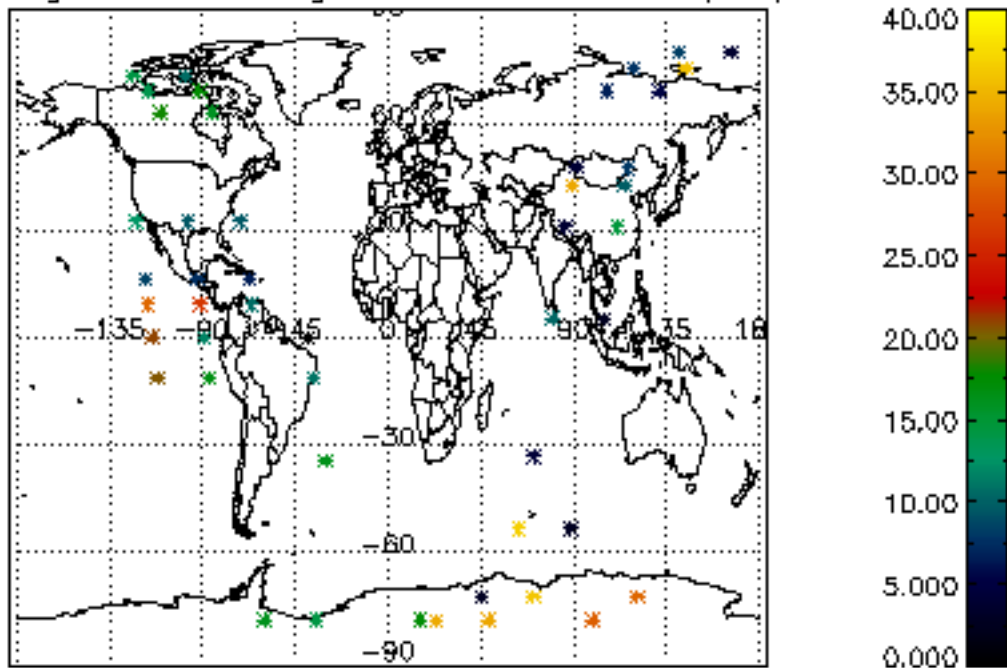
Percentage of cosmic ray hits per profile



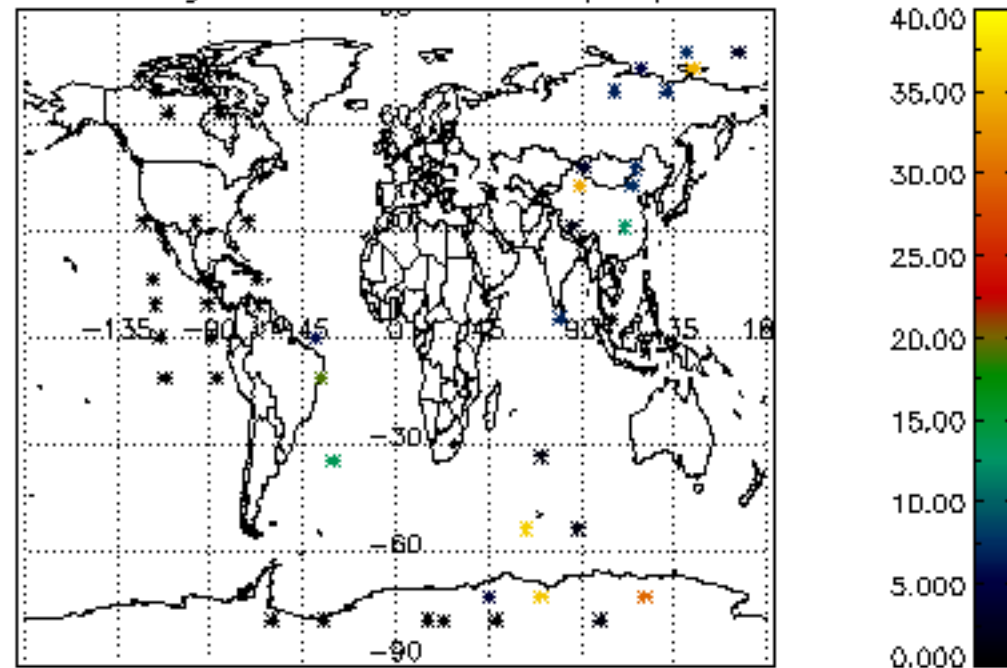
Percentage of datation errors per profile



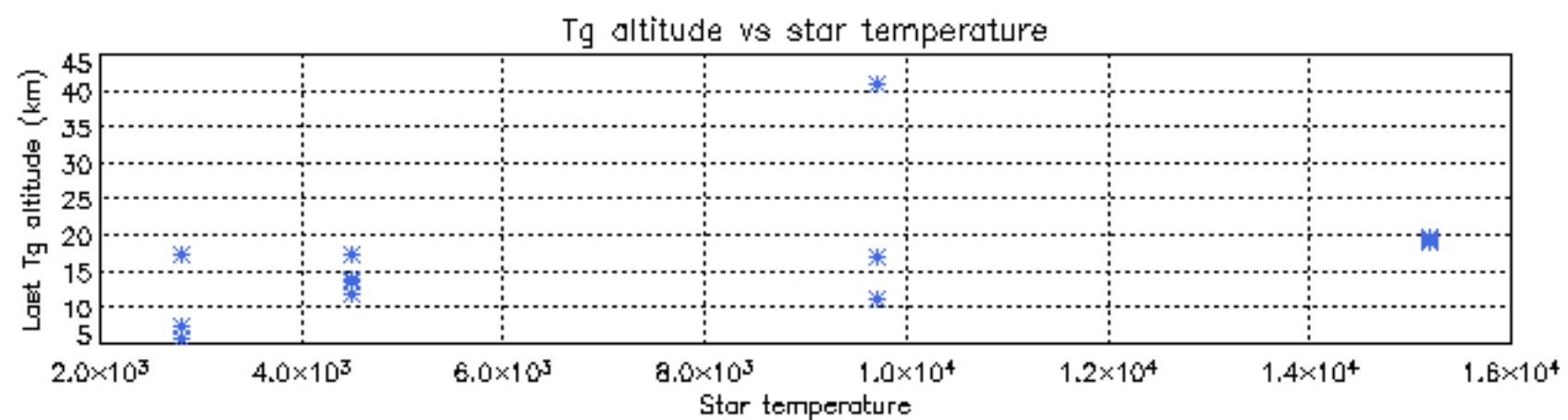
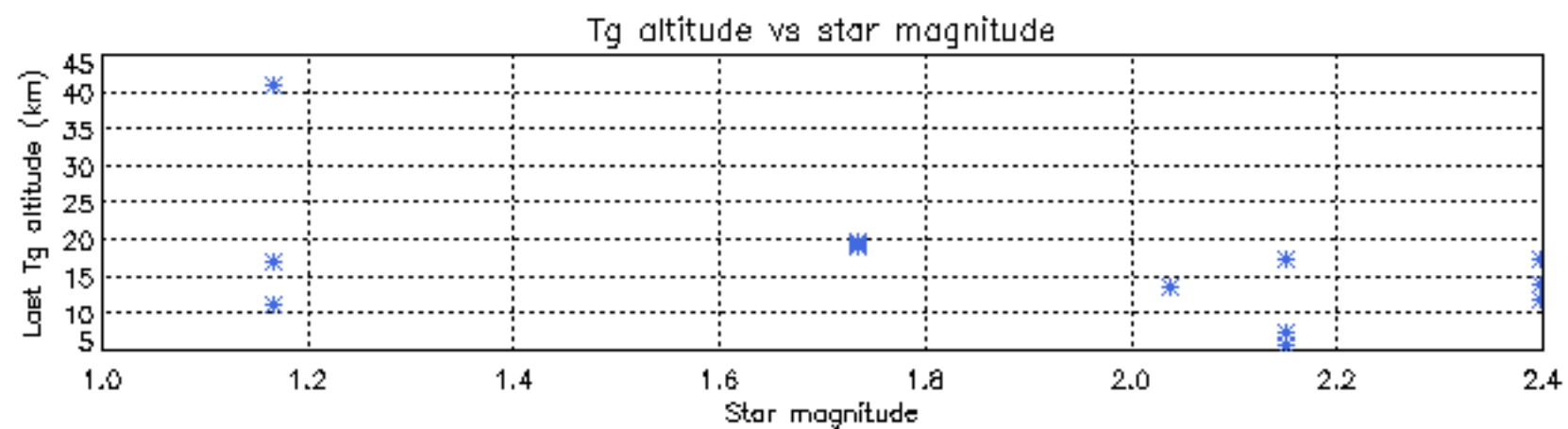
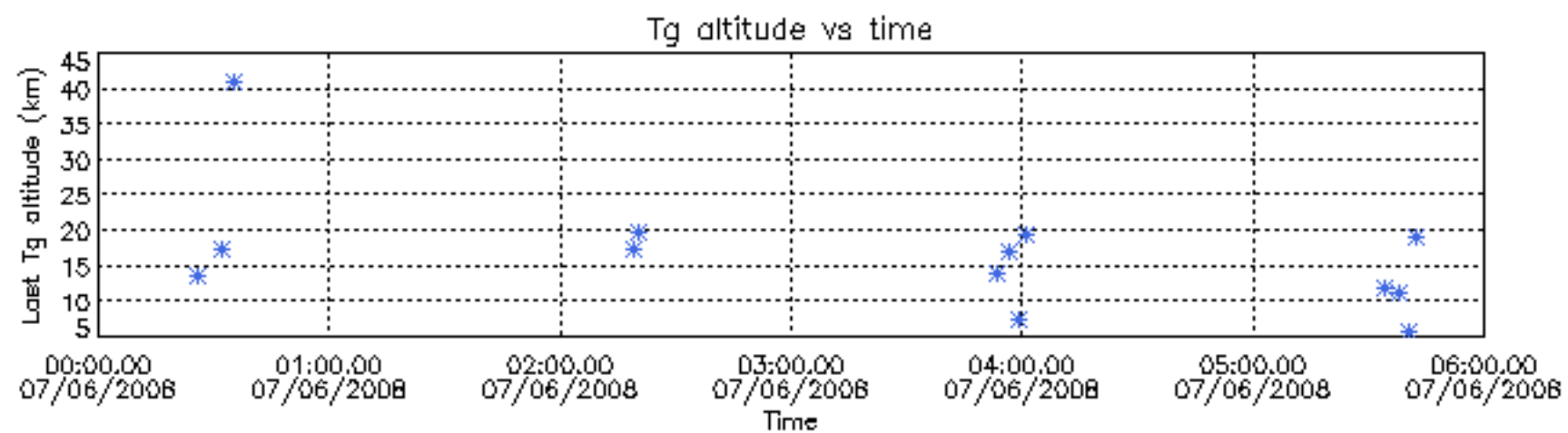
Percentage of star falling outside central band per profile



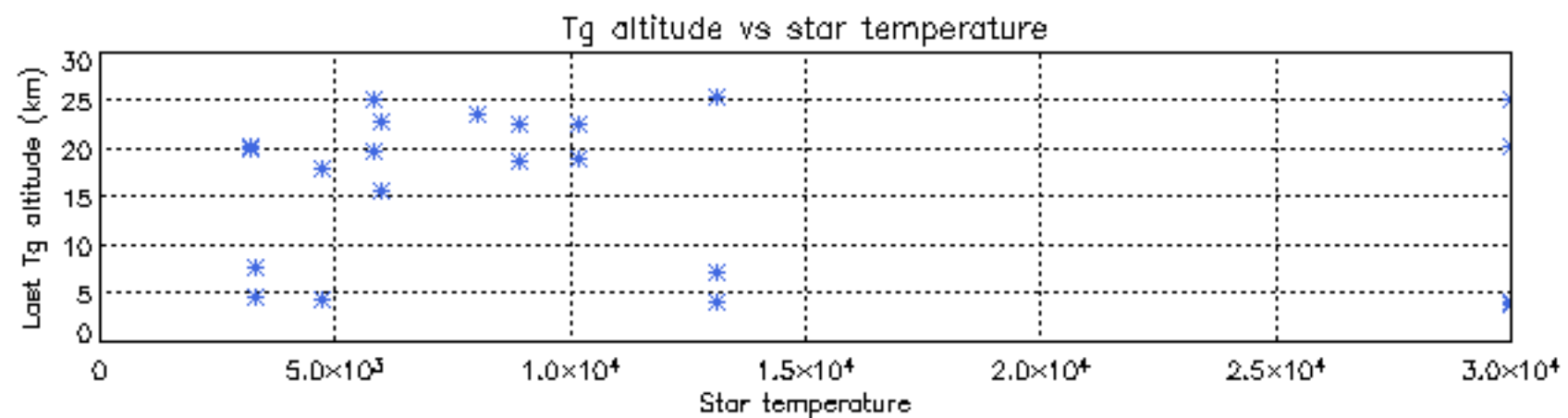
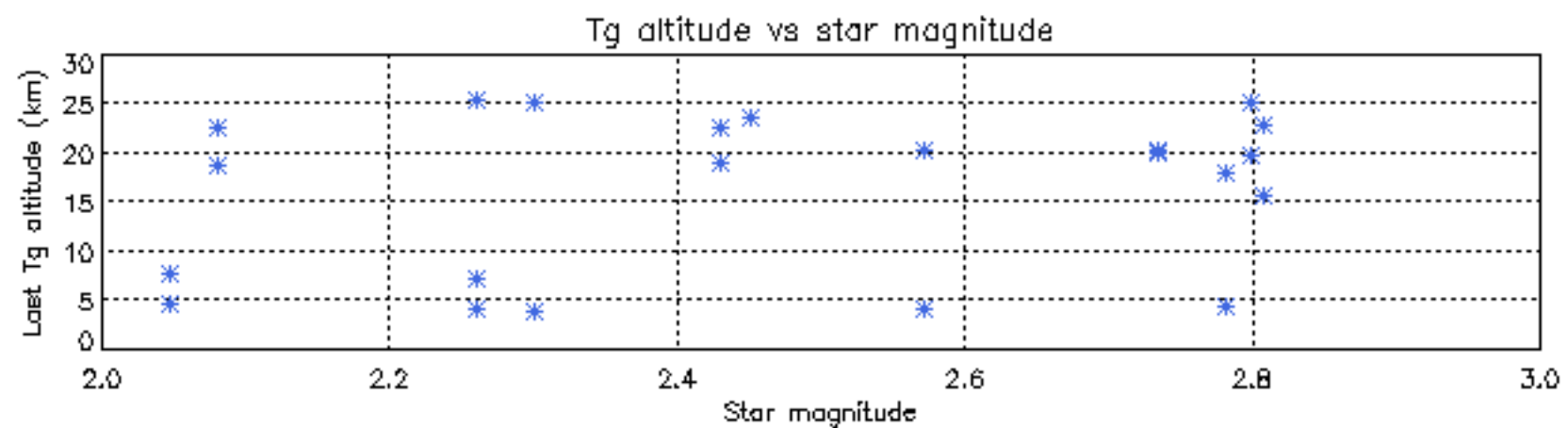
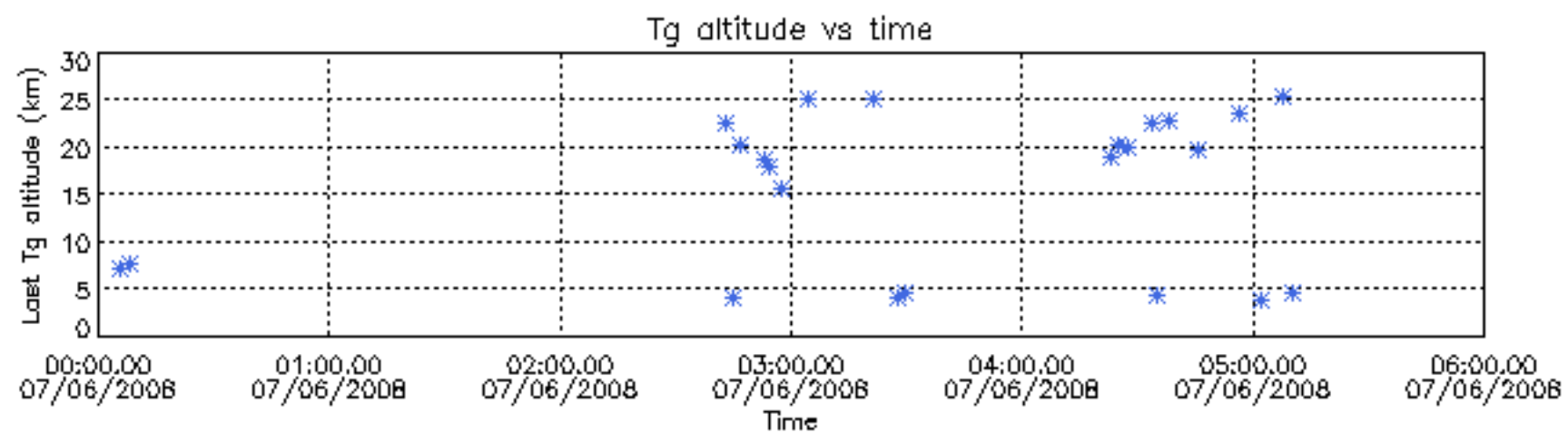
Percentage of saturation errors per profile



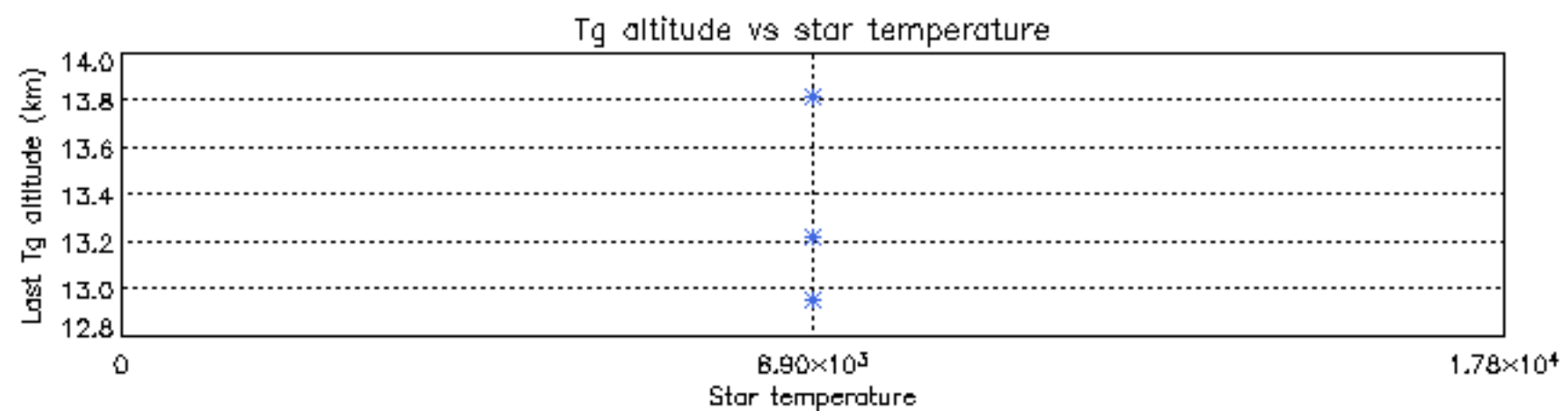
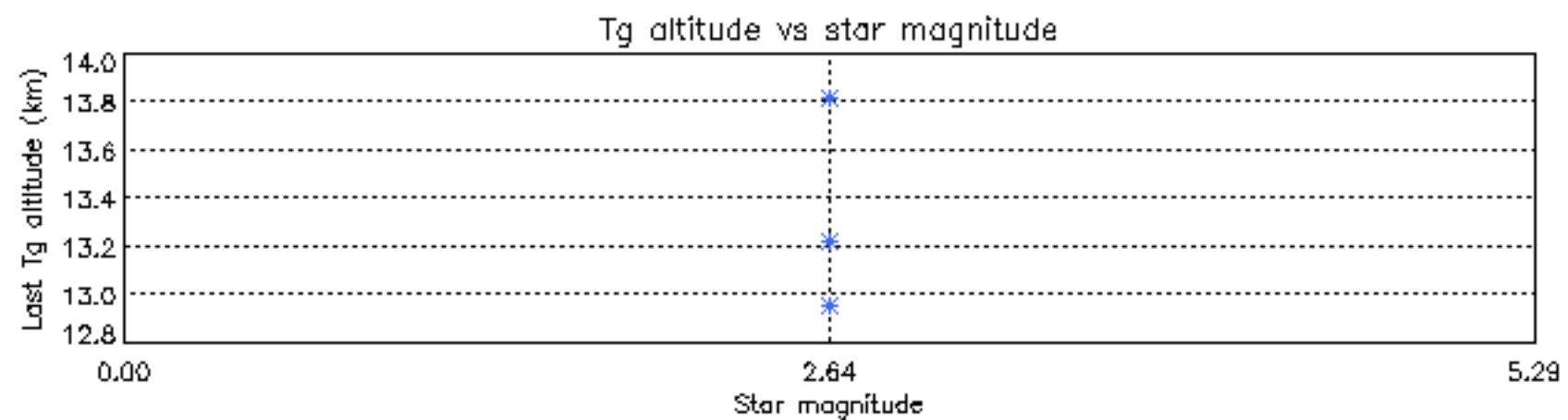
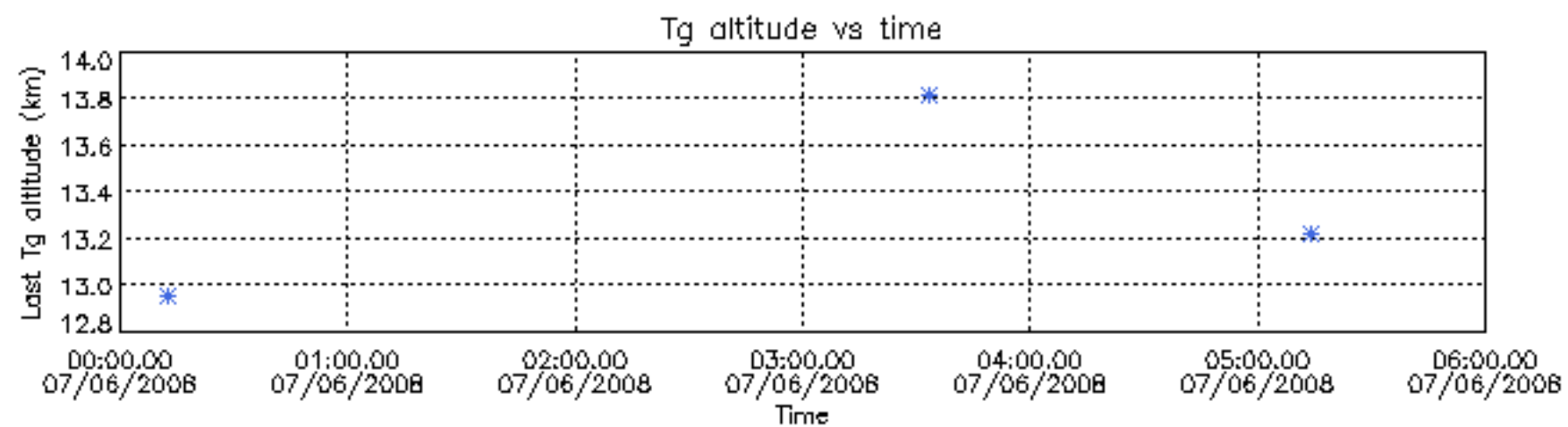
Tangent altitude at which the star is lost

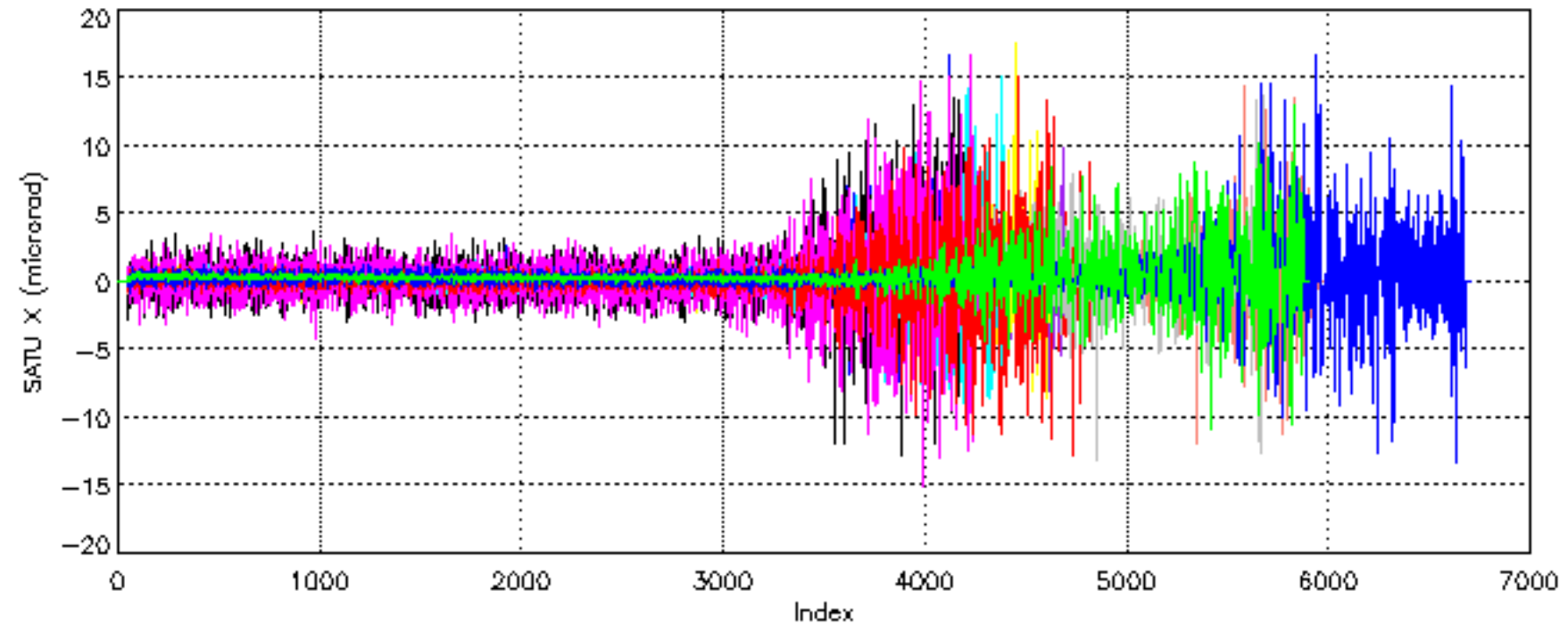


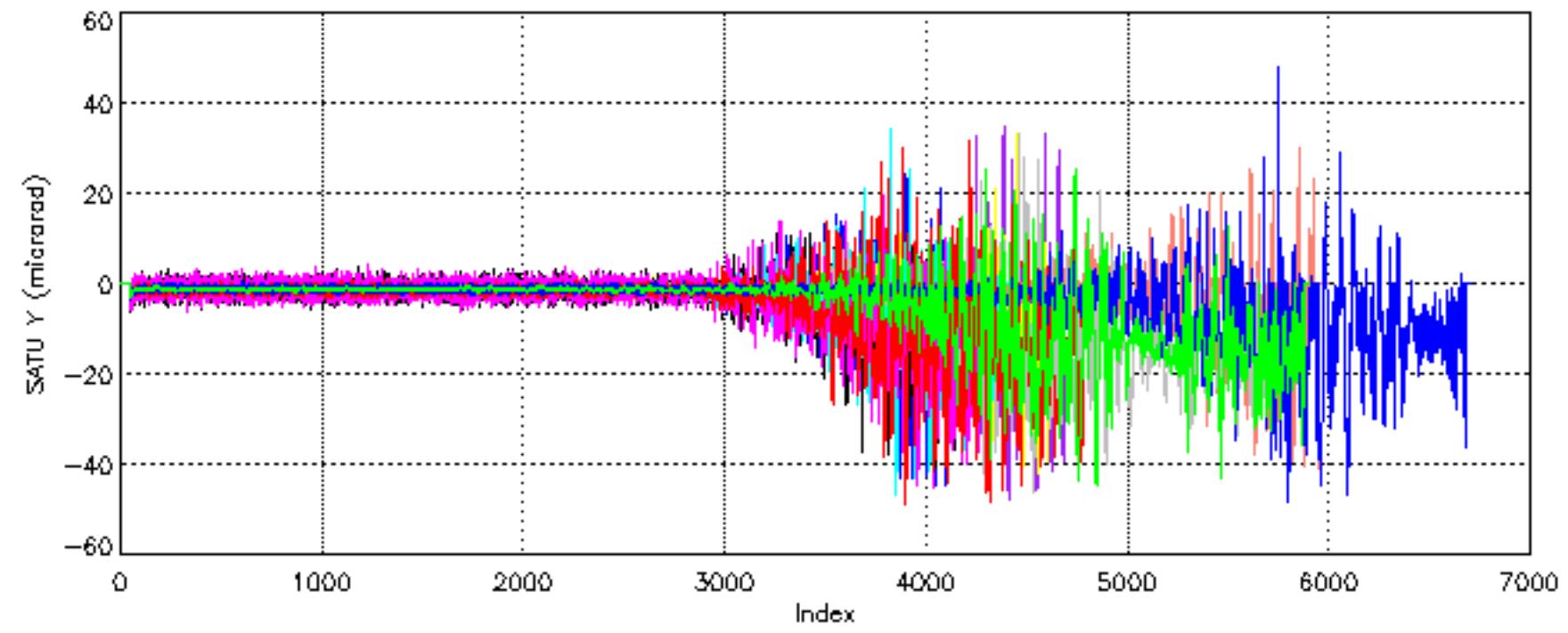
Tangent altitude at which the star is lost

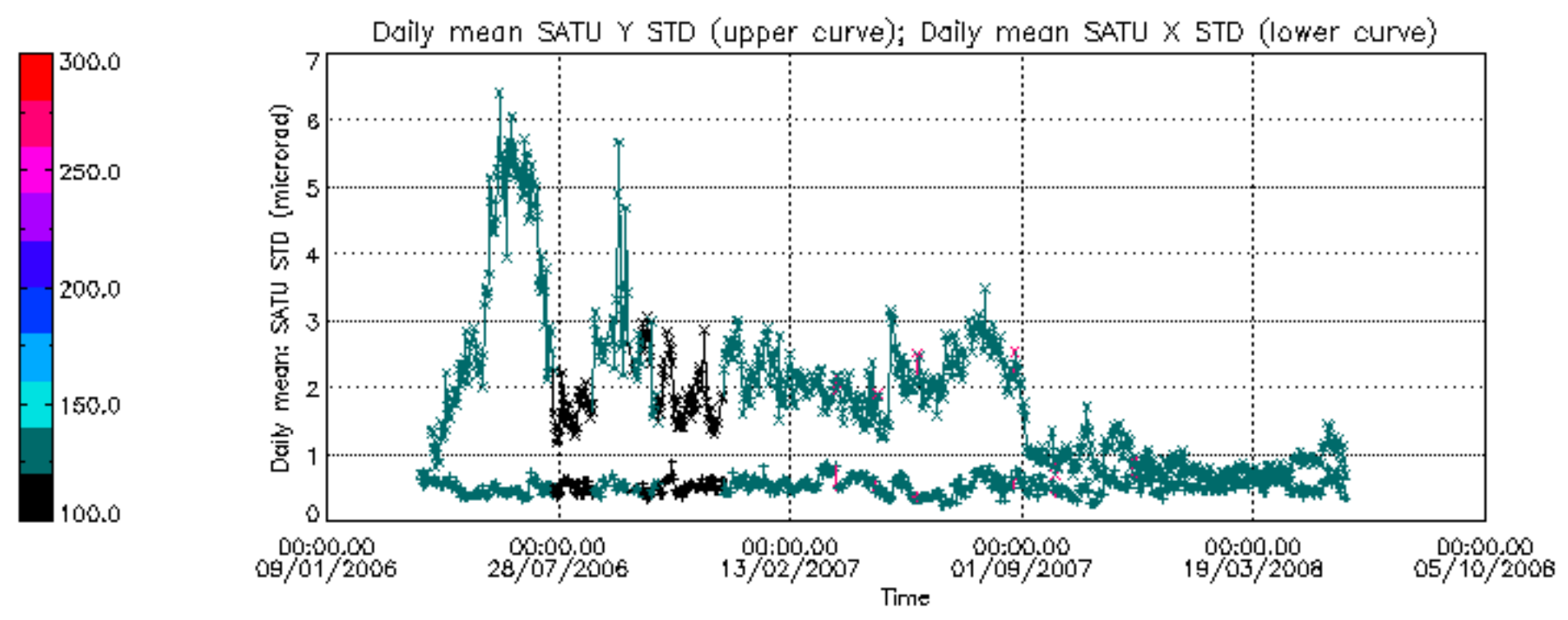


Tangent altitude at which the star is lost









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 6; 492.0; 01-JUN-2008 02:12:01; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;32694
 7; 937.3; 01-JUN-2008 02:19:26; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;32694
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 3; 2014.7; 04-JUN-2008 11:06:08; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;32742
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 7; 3596.6; 04-JUN-2008 11:32:30; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;32742
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 13; 5332.0; 04-JUN-2008 12:01:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32742
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 6; 2944.2; 04-JUN-2008 13:02:14; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;32743
 7; 3596.2; 04-JUN-2008 13:13:06; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32743
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 9; 4399.4; 04-JUN-2008 13:26:29; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;32743
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 22; 7202.4; 04-JUN-2008 14:13:12; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;32743
 23; 7302.9; 04-JUN-2008 14:14:52; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32743
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 4; 2014.8; 04-JUN-2008 14:27:20; Bright; 53.0; 102; 24Alp Ser ; 2.60; 4250;occ; 106; 0;32744
 5; 2305.0; 04-JUN-2008 14:32:10; Bright; 40.5; 127; 27Bet Her ; 2.78; 4700;occ; 81; 0;32744
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3; 2278.7; 14-JUN-2008 09:15:35; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32884
4; 2367.1; 14-JUN-2008 09:17:03; Bright; 33.5; 67; 5Alp CrB ; 2.22; 11000;occ; 67; 0;32884

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7; 2963.7; 14-JUN-2008 09:27:00; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32884
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13; 4403.8; 14-JUN-2008 09:51:00; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;32884
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22; 7146.6; 14-JUN-2008 10:36:43; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;32884
23; 7249.7; 14-JUN-2008 10:38:26; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;32884
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7;	2277.0;	15-JUN-2008	17:06:56;	Bright;	;	36.5;	127;	27Bet	Her	;	2.78;	4700;	occ;	73;	0;	32903
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16;	4270.0;	15-JUN-2008	17:40:09;	Bright;	;	40.5;	73;	57Gam1	And	;	2.26;	13100;	occ;	81;	0;	32903
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14; 3446.2; 22-JUN-2008 20:27:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33005
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7; 1327.2; 22-JUN-2008 21:32:47; Dark ; 51.0; 116; 19Del Sgr ; 2.70; 4100;occ; 102; 0;33006
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2;	-14.6;	22-JUN-2008	22:51:01;	Dark	;	48.0;	9;	Alp Eri	;	0.45;	24000;occ;	96;	0;33006
3;	377.3;	22-JUN-2008	22:57:33;	Dark	;	50.5;	63;	Bet Gru	;	2.15;	2800;occ;	101;	0;33007
4;	687.6;	22-JUN-2008	23:02:43;	Dark	;	40.5;	45;	Alp Pav	;	1.94;	26000;occ;	81;	0;33007
5;	1145.4;	22-JUN-2008	23:10:21;	Dark	;	40.5;	40;	The Sco	;	1.86;	7100;occ;	81;	0;33007
6;	1246.4;	22-JUN-2008	23:12:02;	Dark	;	43.5;	25;	35Lam Sco	;	1.62;	28000;occ;	87;	0;33007
7;	1327.5;	22-JUN-2008	23:13:23;	Dark	;	45.0;	116;	19Del Sgr	;	2.70;	4100;occ;	90;	0;33007
8;	1627.2;	22-JUN-2008	23:18:22;	Bright;		37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;33007
9;	1731.0;	22-JUN-2008	23:20:06;	Bright;		36.5;	98;	13Zet Oph	;	2.57;	30000;occ;	73;	0;33007
10;	1989.2;	22-JUN-2008	23:24:24;	Bright;		39.5;	126;	60Bet Oph	;	2.77;	4250;occ;	79;	0;33007
11;	2133.7;	22-JUN-2008	23:26:49;	Bright;		40.0;	59;	55Alp Oph	;	2.08;	8900;occ;	80;	0;33007
12;	2274.5;	22-JUN-2008	23:29:10;	Bright;		36.5;	127;	27Bet Her	;	2.78;	4700;occ;	73;	0;33007
13;	2447.2;	22-JUN-2008	23:32:02;	Bright;		35.5;	133;	40Zet Her	;	2.81;	6000;occ;	71;	0;33007
14;	2832.9;	22-JUN-2008	23:38:28;	Bright;		39.5;	130;	23Bet Dra	;	2.80;	5800;occ;	79;	0;33007
15;	2952.8;	22-JUN-2008	23:40:28;	Bright;		37.0;	119;	14Eta Dra	;	2.73;	4700;occ;	74;	0;33007
16;	3178.0;	22-JUN-2008	23:44:13;	Bright;		39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;33007
17;	3446.1;	22-JUN-2008	23:48:41;	Bright;		35.0;	49;	1Alp UMi	;	1.99;	6300;occ;	70;	0;33007
18;	3870.1;	22-JUN-2008	23:55:45;	Bright;		50.0;	76;	27Gam Cas	;	2.30;	30000;occ;	100;	0;33007
19;	4065.3;	22-JUN-2008	23:59:01;	Bright;		34.0;	160;	23Gam Per	;	2.93;	4700;occ;	68;	0;33007
20;	4270.8;	23-JUN-2008	00:02:26;	Bright;		43.5;	73;	57Gam1And	;	2.26;	13100;occ;	87;	0;33007
21;	4415.8;	23-JUN-2008	00:04:51;	Dark	;	44.0;	173;	4Bet Tri	;	3.00;	8900;occ;	88;	0;33007
22;	4936.5;	23-JUN-2008	00:13:32;	Dark	;	45.5;	94;	92Alp Cet	;	2.53;	3100;occ;	91;	0;33007
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2;	-1970.7;	22-JUN-2008	07:13:01;	Bright;		34.0;	160;	23Gam Per	;	2.93;	4700;occ;	68;	0;32997
3;	-1764.9;	22-JUN-2008	07:16:27;	Bright;		43.5;	73;	57Gam1And	;	2.26;	13100;occ;	87;	0;32997
4;	-1621.0;	22-JUN-2008	07:18:51;	Dark	;	44.0;	173;	4Bet Tri	;	3.00;	8900;occ;	88;	0;32997
5;	-1102.4;	22-JUN-2008	07:27:30;	Dark	;	37.0;	94;	92Alp Cet	;	2.53;	3100;occ;	74;	0;32997
6;	-625.3;	22-JUN-2008	07:35:27;	Dark	;	59.5;	0;	;	;	0.00;	0;occ;	119;	0;32997
7;	-18.3;	22-JUN-2008	07:45:34;	Dark	;	43.5;	9;	Alp Eri	;	0.45;	24000;occ;	87;	0;32997
8;	368.6;	22-JUN-2008	07:52:01;	Dark	;	49.0;	63;	Bet Gru	;	2.15;	2800;occ;	98;	0;32998
9;	682.7;	22-JUN-2008	07:57:15;	Dark	;	41.0;	45;	Alp Pav	;	1.94;	26000;occ;	82;	0;32998
10;	1143.2;	22-JUN-2008	08:04:55;	Dark	;	42.0;	40;	The Sco	;	1.86;	7100;occ;	84;	0;32998
11;	1244.2;	22-JUN-2008	08:06:36;	Dark	;	42.5;	25;	35Lam Sco	;	1.62;	28000;occ;	85;	0;32998
12;	1325.1;	22-JUN-2008	08:07:57;	Dark	;	46.0;	116;	19Del Sgr	;	2.70;	4100;occ;	92;	0;32998
13;	1401.0;	22-JUN-2008	08:09:13;	Bright;		45.5;	137;	22Lam Sgr	;	2.82;	4400;occ;	91;	0;32998
14;	1626.1;	22-JUN-2008	08:12:58;	Bright;		37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;32998
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2;	1729.9;	22-JUN-2008	08:14:42;	Bright;		34.5;	98;	13Zet Oph	;	2.57;	30000;occ;	69;	0;32998
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4;	2135.2;	22-JUN-2008	08:21:27;	Bright;		39.0;	59;	55Alp Oph	;	2.08;	8900;occ;	78;	0;32998
5;	2274.4;	22-JUN-2008	08:23:46;	Bright;		36.5;	127;	27Bet Her	;	2.78;	4700;occ;	73;	0;32998
6;	2447.8;	22-JUN-2008	08:26:40;	Bright;		36.0;	133;	40Zet Her	;	2.81;	6000;occ;	72;	0;32998
7;	2835.5;	22-JUN-2008	08:33:07;	Bright;		38.5;	130;	23Bet Dra	;	2.80;	5800;occ;	77;	0;32998
8;	2953.2;	22-JUN-2008	08:35:05;	Bright;		36.5;	119;	14Eta Dra	;	2.73;	4700;occ;	73;	0;32998
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13;	4270.9;	22-JUN-2008	08:57:03;	Bright;		44.5;	73;	57Gam1And	;	2.26;	13100;occ;	89;	0;32998
14;	4415.1;	22-JUN-2008	08:59:27;	Dark	;	44.0;	173;	4Bet Tri	;	3.00;	8900;occ;	88;	0;32998
15;	4933.8;	22-JUN-2008	09:08:06;	Dark	;	36.5;	94;	92Alp Cet	;	2.53;	3100;occ;	73;	0;32998
16;	5411.3;	22-JUN-2008	09:16:03;	Dark	;	59.5;	0;	;	;	0.00;	0;occ;	119;	0;32998
17;	6018.0;	22-JUN-2008	09:26:10;	Dark	;	49.0;	9;	Alp Eri	;	0.45;	24000;occ;	98;	0;32998
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21;	7280.5;	22-JUN-2008	09:47:12;	Dark	;	43.0;	25;	35Lam Sco	;	1.62;	28000;occ;	86;	0;32998
22;	7361.2;	22-JUN-2008	09:48:33;	Dark	;	58.0;	116;	19Del Sgr	;	2.70;	4100;occ;	116;	0;32998
23;	7437.2;	22-JUN-2008	09:49:49;	Bright;		43.5;	137;	22Lam Sgr	;	2.82;	4400;occ;	87;	0;32998
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25;	7765.8;	22-JUN-2008	09:55:18;	Bright;		35.0;	98;	13Zet Oph	;	2.57;	30000;occ;	70;	1;32998
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14; 1627.8; 23-JUN-2008 06:00:47; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;33011
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21; 2952.7; 23-JUN-2008 06:22:52; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33011
22; 3178.6; 23-JUN-2008 06:26:38; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33011
23; 3446.2; 23-JUN-2008 06:31:05; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33011
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16; 3179.5; 23-JUN-2008 23:12:38; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33021
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7; 2952.7; 23-JUN-2008 08:03:28; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33012
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9; 3446.2; 23-JUN-2008 08:11:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33012
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14; 4648.2; 23-JUN-2008 08:31:43; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;33012
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16; 5420.6; 23-JUN-2008 08:44:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33012
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19; 6727.5; 23-JUN-2008 10:46:58; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;33013
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22; 7365.5; 23-JUN-2008 10:57:36; Dark ; 46.5; 116; 19Del Sgr ; 2.70; 4100;occ; 93; 0;33013
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 9; 3178.8; 23-JUN-2008 11:28:26; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33014
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 14; 4416.5; 23-JUN-2008 11:49:03; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;33014
 15; 4648.7; 23-JUN-2008 11:52:55; Dark ; 52.5; 50; 13Alp Ari ; 2.01; 4250;occ; 105; 0;33014
 16; 4938.9; 23-JUN-2008 11:57:46; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33014
 17; 5421.9; 23-JUN-2008 12:05:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33014
 18; 6024.8; 23-JUN-2008 12:15:52; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;33014
 19; 6421.2; 23-JUN-2008 12:22:28; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;33014
 20; 6728.0; 23-JUN-2008 12:27:35; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33014
 21; 7183.5; 23-JUN-2008 12:35:10; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33014
 22; 7284.4; 23-JUN-2008 12:36:51; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33014
 23; 7365.8; 23-JUN-2008 12:38:12; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;33014
 24; 7664.3; 23-JUN-2008 12:43:11; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33014

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1; 1648.9; 23-JUN-2008 12:43:32; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 41;33015
 2; 1732.2; 23-JUN-2008 12:44:55; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;33015
 3; 1988.5; 23-JUN-2008 12:49:11; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;33015
 4; 2132.5; 23-JUN-2008 12:51:35; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33015
 5; 2274.8; 23-JUN-2008 12:53:57; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;33015
 6; 2446.9; 23-JUN-2008 12:56:50; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33015
 7; 2830.9; 23-JUN-2008 13:03:13; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33015
 8; 2952.6; 23-JUN-2008 13:05:15; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33015
 9; 3179.0; 23-JUN-2008 13:09:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33015
 10; 3446.2; 23-JUN-2008 13:13:29; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33015
 11; 3867.9; 23-JUN-2008 13:20:31; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;33015
 12; 4065.4; 23-JUN-2008 13:23:48; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;33015
 13; 4270.7; 23-JUN-2008 13:27:13; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;33015
 14; 4416.6; 23-JUN-2008 13:29:39; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;33015
 15; 4649.1; 23-JUN-2008 13:33:32; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;33015
 16; 4939.4; 23-JUN-2008 13:38:22; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33015
 17; 5422.6; 23-JUN-2008 13:46:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33015
 18; 6025.2; 23-JUN-2008 13:56:28; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;33015
 19; 6422.3; 23-JUN-2008 14:03:05; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;33015
 20; 6728.6; 23-JUN-2008 14:08:11; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33015
 21; 7183.9; 23-JUN-2008 14:15:47; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;33015
 22; 7284.6; 23-JUN-2008 14:17:27; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33015
 23; 7366.0; 23-JUN-2008 14:18:49; Dark ; 43.5; 116; 19Del Sgr ; 2.70; 4100;occ; 87; 0;33015

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1; 1628.6; 23-JUN-2008 14:23:47; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33016
 2; 1732.3; 23-JUN-2008 14:25:31; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33016
 3; 1988.4; 23-JUN-2008 14:29:47; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;33016
 4; 2132.4; 23-JUN-2008 14:32:11; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33016

5; 2275.0; 23-JUN-2008 14:34:33; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33016
6; 2446.9; 23-JUN-2008 14:37:25; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33016
7; 2830.7; 23-JUN-2008 14:43:49; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33016
8; 2952.6; 23-JUN-2008 14:45:51; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33016
9; 3179.1; 23-JUN-2008 14:49:38; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33016
10; 3446.3; 23-JUN-2008 14:54:05; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33016
11; 3867.8; 23-JUN-2008 15:01:06; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;33016
12; 4065.4; 23-JUN-2008 15:04:24; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;33016
13; 4270.9; 23-JUN-2008 15:07:49; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33016
14; 4649.4; 23-JUN-2008 15:14:08; Dark ; 57.5; 50; 13Alp Ari ; 2.01; 4250;occ; 115; 0;33016
15; 4939.8; 23-JUN-2008 15:18:58; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;33016
16; 5423.3; 23-JUN-2008 15:27:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33016
17; 6025.7; 23-JUN-2008 15:37:04; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;33016
18; 6423.3; 23-JUN-2008 15:43:42; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;33016
19; 6729.2; 23-JUN-2008 15:48:48; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33016
20; 7184.2; 23-JUN-2008 15:56:23; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33016
21; 7285.0; 23-JUN-2008 15:58:03; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;33016
22; 7366.4; 23-JUN-2008 15:59:25; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;33016

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2; 1628.6; 23-JUN-2008 16:04:23; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33017
3; 1732.6; 23-JUN-2008 16:06:07; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33017
4; 1988.2; 23-JUN-2008 16:10:23; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;33017
5; 2132.2; 23-JUN-2008 16:12:47; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;33017
6; 2274.9; 23-JUN-2008 16:15:09; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33017
7; 2446.9; 23-JUN-2008 16:18:01; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33017
8; 2830.4; 23-JUN-2008 16:24:25; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33017
9; 2952.5; 23-JUN-2008 16:26:27; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33017
10; 3179.2; 23-JUN-2008 16:30:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33017
11; 3446.2; 23-JUN-2008 16:34:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33017
12; 3867.4; 23-JUN-2008 16:41:42; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;33017
13; 4065.4; 23-JUN-2008 16:45:00; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;33017
14; 4270.9; 23-JUN-2008 16:48:25; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;33017
15; 4649.7; 23-JUN-2008 16:54:44; Dark ; 51.5; 50; 13Alp Ari ; 2.01; 4250;occ; 103; 0;33017
16; 4940.1; 23-JUN-2008 16:59:34; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;33017
17; 5424.0; 23-JUN-2008 17:07:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33017
18; 6026.1; 23-JUN-2008 17:17:41; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;33017
19; 6424.3; 23-JUN-2008 17:24:19; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;33017
20; 6729.8; 23-JUN-2008 17:29:24; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33017
21; 7184.4; 23-JUN-2008 17:36:59; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;33017

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2; 1249.2; 23-JUN-2008 17:38:40; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;33018
3; 1330.6; 23-JUN-2008 17:40:01; Dark ; 58.0; 116; 19Del Sgr ; 2.70; 4100;occ; 116; 0;33018
4; 1628.7; 23-JUN-2008 17:44:59; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33018
5; 1732.6; 23-JUN-2008 17:46:43; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33018
6; 1988.1; 23-JUN-2008 17:50:59; Bright; 58.0; 126; 60Bet Oph ; 2.77; 4250;occ; 116; 0;33018
7; 2132.0; 23-JUN-2008 17:53:22; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;33018
8; 2274.9; 23-JUN-2008 17:55:45; Bright; 51.0; 127; 27Bet Her ; 2.78; 4700;occ; 102; 0;33018
9; 2446.8; 23-JUN-2008 17:58:37; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33018
10; 2830.2; 23-JUN-2008 18:05:01; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33018
11; 2952.4; 23-JUN-2008 18:07:03; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33018
12; 3179.2; 23-JUN-2008 18:10:50; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33018
13; 3446.1; 23-JUN-2008 18:15:17; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33018
14; 3867.1; 23-JUN-2008 18:22:18; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;33018
15; 4065.3; 23-JUN-2008 18:25:36; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;33018
16; 4288.5; 23-JUN-2008 18:29:19; Bright; 35.5; 79; 26Bet Per ; 2.31; 13100;occ; 71; 0;33018
17; 4649.9; 23-JUN-2008 18:35:20; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;33018
18; 4940.3; 23-JUN-2008 18:40:11; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;33018
19; 5424.7; 23-JUN-2008 18:48:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33018
20; 6026.6; 23-JUN-2008 18:58:17; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;33018
21; 6425.2; 23-JUN-2008 19:04:56; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;33018
22; 6730.3; 23-JUN-2008 19:10:01; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33018

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2; 1249.4; 23-JUN-2008 19:19:16; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33019
3; 1330.9; 23-JUN-2008 19:20:37; Dark ; 49.5; 116; 19Del Sgr ; 2.70; 4100;occ; 99; 0;33019
4; 1628.9; 23-JUN-2008 19:25:35; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33019

5; 1732.6; 23-JUN-2008 19:27:19; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33019
6; 1987.9; 23-JUN-2008 19:31:34; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;33019
7; 2131.8; 23-JUN-2008 19:33:58; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33019
8; 2274.8; 23-JUN-2008 19:36:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;33019
9; 2446.8; 23-JUN-2008 19:39:13; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33019
10; 2829.9; 23-JUN-2008 19:45:36; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33019
11; 2952.3; 23-JUN-2008 19:47:39; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33019
12; 3179.3; 23-JUN-2008 19:51:26; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;33019
13; 3446.1; 23-JUN-2008 19:55:53; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33019
14; 3866.8; 23-JUN-2008 20:02:53; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;33019
15; 4065.4; 23-JUN-2008 20:06:12; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;33019
16; 4288.6; 23-JUN-2008 20:09:55; Bright; 54.0; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;33019
17; 4650.1; 23-JUN-2008 20:15:57; Dark ; 53.0; 50; 13Alp Ari ; 2.01; 4250;occ; 106; 0;33019
18; 4940.6; 23-JUN-2008 20:20:47; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;33019
19; 5425.3; 23-JUN-2008 20:28:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33019
20; 6026.9; 23-JUN-2008 20:38:53; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;33019
21; 6426.1; 23-JUN-2008 20:45:33; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;33019
22; 6730.6; 23-JUN-2008 20:50:37; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33019

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2; -7.8; 24-JUN-2008 01:40:42; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;33022
3; 393.3; 24-JUN-2008 01:47:23; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;33023
4; 696.4; 24-JUN-2008 01:52:26; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33023
5; 1149.6; 24-JUN-2008 02:00:00; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;33023
6; 1250.3; 24-JUN-2008 02:01:40; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;33023
7; 1331.8; 24-JUN-2008 02:03:02; Dark ; 47.5; 116; 19Del Sgr ; 2.70; 4100;occ; 95; 0;33023
8; 1629.4; 24-JUN-2008 02:07:59; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33023
9; 1733.2; 24-JUN-2008 02:09:43; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33023
10; 1987.5; 24-JUN-2008 02:13:58; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;33023
11; 2131.1; 24-JUN-2008 02:16:21; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;33023
12; 2274.9; 24-JUN-2008 02:18:45; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;33023
13; 2446.6; 24-JUN-2008 02:21:37; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33023
14; 2828.8; 24-JUN-2008 02:27:59; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;33023
15; 2952.3; 24-JUN-2008 02:30:02; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33023
16; 3179.7; 24-JUN-2008 02:33:50; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;33023
17; 3446.1; 24-JUN-2008 02:38:16; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33023

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2; -1970.6; 24-JUN-2008 02:48:35; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;33023
3; -1746.9; 24-JUN-2008 02:52:19; Bright; 54.0; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;33023
4; -1384.8; 24-JUN-2008 02:58:21; Dark ; 52.5; 50; 13Alp Ari ; 2.01; 4250;occ; 105; 0;33023
5; -1094.0; 24-JUN-2008 03:03:12; Dark ; 46.5; 94; 92Alp Cet ; 2.53; 3100;occ; 93; 0;33023
6; -607.8; 24-JUN-2008 03:11:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33023
7; -7.2; 24-JUN-2008 03:21:19; Dark ; 37.5; 9; Alp Eri ; 0.45; 24000;occ; 75; 0;33023
8; 394.2; 24-JUN-2008 03:28:00; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;33024
9; 697.1; 24-JUN-2008 03:33:03; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;33024
10; 1149.9; 24-JUN-2008 03:40:36; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33024
11; 1250.6; 24-JUN-2008 03:42:17; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33024
12; 1332.3; 24-JUN-2008 03:43:38; Dark ; 48.0; 116; 19Del Sgr ; 2.70; 4100;occ; 96; 0;33024
13; 1629.8; 24-JUN-2008 03:48:36; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33024
14; 1733.4; 24-JUN-2008 03:50:19; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33024
15; 1987.6; 24-JUN-2008 03:54:33; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;33024
16; 2131.1; 24-JUN-2008 03:56:57; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;33024
17; 2275.2; 24-JUN-2008 03:59:21; Bright; 52.0; 127; 27Bet Her ; 2.78; 4700;occ; 104; 0;33024
18; 2446.7; 24-JUN-2008 04:02:13; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;33024
19; 2828.7; 24-JUN-2008 04:08:35; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;33024
20; 2952.3; 24-JUN-2008 04:10:38; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33024
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 17; 6736.8; 24-JUN-2008 15:17:18; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33030
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 8; 2952.0; 24-JUN-2008 15:54:49; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33031
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 10; 2127.5; 25-JUN-2008 23:32:28; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33050
 11; 2276.5; 25-JUN-2008 23:34:57; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33050
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9; 3445.7; 28-JUN-2008 10:35:23; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33085
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 6; 2446.7; 28-JUN-2008 13:39:56; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33087
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