

GOMOS Daily Report 05-AUG-2007

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

[4. Dark Charge monitoring](#)

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

[4.2 Plot of Dark Charge](#)

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

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

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

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

[6. Star tangent altitude lost](#)

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

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

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

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

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

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

[7.2 SATU Noise Equivalent Angle statistics](#)

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

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

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

[Level 2 products](#)

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	07AUG2007 09:54:05
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (05AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (06AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

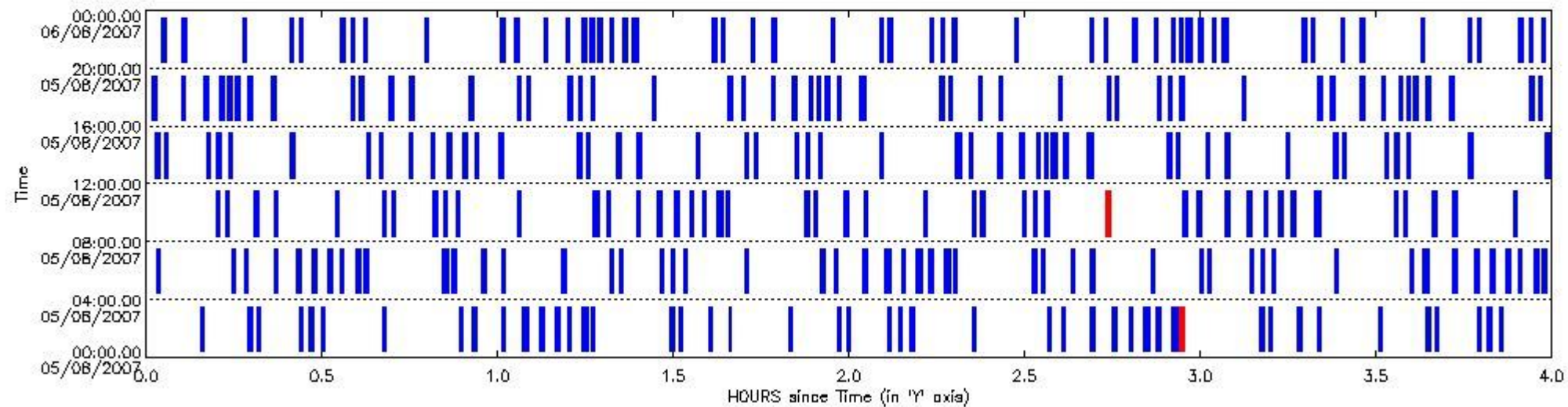
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

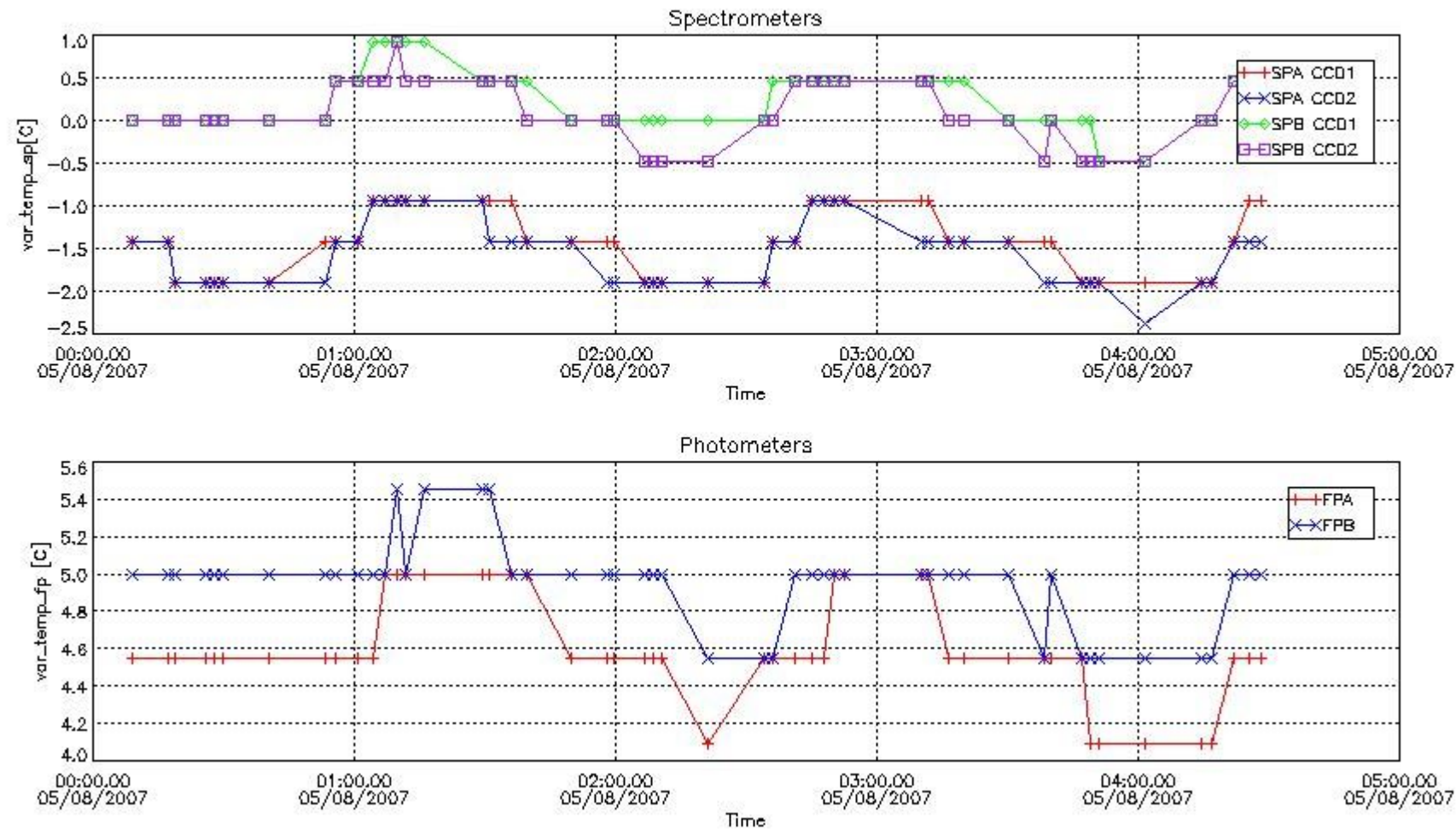
UTC start time	Star name	Star ID	Orbit
05-AUG-2007 02:56:26	AlpCol	108	28385
05-AUG-2007 10:43:53	1AlpUMi	49	28390

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_1PNPDE20070805_000910_000000372060_00274_28384_4193.N1	05-AUG-2007 00:09:10	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28384	No
2	GOM_TRA_1PNPDE20070805_001723_000000372060_00274_28384_4194.N1	05-AUG-2007 00:17:23	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	28384	No
3	GOM_TRA_1PNPDE20070805_001854_000000342060_00274_28384_4195.N1	05-AUG-2007 00:18:54	Bright	34.000	168	17Zet Aql	2.9860	11000.	68	28384	No
4	GOM_TRA_1PNPDE20070805_002600_000000352060_00274_28384_4196.N1	05-AUG-2007 00:26:00	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	28384	No
5	GOM_TRA_1PNPDE20070805_002752_000000352060_00274_28384_4197.N1	05-AUG-2007 00:27:52	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	28384	No
6	GOM_TRA_1PNPDE20070805_002952_000000372060_00274_28384_4198.N1	05-AUG-2007 00:29:52	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	28384	No
7	GOM_TRA_1PNPDE20070805_004026_000000332060_00274_28384_4199.N1	05-AUG-2007 00:40:26	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28384	No
8	GOM_TRA_1PNPDE20070805_005322_000000352060_00274_28384_4200.N1	05-AUG-2007 00:53:22	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	28384	No
9	GOM_TRA_1PNPDE20070805_005538_000000402060_00274_28384_4201.N1	05-AUG-2007 00:55:38	Bright	40.000	107	37The Aur	2.6490	11000.	80	28384	No

10	GOM_TRA_1PNPDE20070805_010036_000000382060_00274_28384_4202.N1	05-AUG-2007 01:00:36	Twilight	38.000	176	23Zet Tau	3.0200	22000.	76	28384	No
11	GOM_TRA_1PNPDE20070805_010419_000000542060_00274_28384_4203.N1	05-AUG-2007 01:04:19	Dark	53.500	14	58Alp Ori	0.87000	3000.0	107	28384	No
12	GOM_TRA_1PNPDE20070805_010709_000000442060_00274_28384_4204.N1	05-AUG-2007 01:07:09	Dark	44.000	30	46Eps Ori	1.6940	30000.	88	28384	No
13	GOM_TRA_1PNPDE20070805_010942_000000522060_00274_28384_4205.N1	05-AUG-2007 01:09:42	Dark	52.000	7	19Bet Ori	0.10000	14000.	104	28384	No
14	GOM_TRA_1PNPDE20070805_011150_000000412060_00274_28384_4329.N1	05-AUG-2007 01:11:50	Dark	41.000	101	11Alp Lep	2.5820	7000.0	82	28384	No
15	GOM_TRA_1PNPDE20070805_011559_000000392060_00274_28384_4330.N1	05-AUG-2007 01:15:59	Dark	39.000	108	Alp Col	2.6520	15200.	78	28384	No
16	GOM_TRA_1PNPDE20070805_012924_000000432060_00275_28385_4331.N1	05-AUG-2007 01:29:24	Dark	42.500	9	Alp Eri	0.45300	24000.	85	28385	No
17	GOM_TRA_1PNPDE20070805_013100_000000372060_00275_28385_4332.N1	05-AUG-2007 01:31:00	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28385	No
18	GOM_TRA_1PNPDE20070805_013601_000000392060_00275_28385_4333.N1	05-AUG-2007 01:36:01	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	28385	No
19	GOM_TRA_1PNPDE20070805_013926_000000302060_00275_28385_4334.N1	05-AUG-2007 01:39:26	Straylight	30.000	31	Alp Gru	1.7340	15200.	60	28385	No
20	GOM_TRA_1PNPDE20070805_014946_000000362060_00275_28385_4335.N1	05-AUG-2007 01:49:46	Bright	36.000	155	41Pi Sgr	2.9000	6600.0	72	28385	No
21	GOM_TRA_1PNPDE20070805_015759_000000372060_00275_28385_4336.N1	05-AUG-2007 01:57:59	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	28385	No
22	GOM_TRA_1PNPDE20070805_015930_000000362060_00275_28385_4337.N1	05-AUG-2007 01:59:30	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28385	No
23	GOM_TRA_1PNPDE20070805_020636_000000392060_00275_28385_4338.N1	05-AUG-2007 02:06:36	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	28385	No
24	GOM_TRA_1PNPDE20070805_020827_000000362060_00275_28385_4339.N1	05-AUG-2007 02:08:27	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	28385	No
25	GOM_TRA_1PNPDE20070805_021028_000000342060_00275_28385_4340.N1	05-AUG-2007 02:10:28	Bright	34.000	69	33Gam Dra	2.2310	3800.0	68	28385	No
26	GOM_TRA_1PNPDE20070805_022102_000000362060_00275_28385_4341.N1	05-AUG-2007 02:21:02	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	28385	No
27	GOM_TRA_1PNPDE20070805_023358_000000362060_00275_28385_4497.N1	05-AUG-2007 02:33:58	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	28385	No
28	GOM_TRA_1PNPDE20070805_023614_000000362060_00275_28385_4498.N1	05-AUG-2007 02:36:14	Bright	36.000	107	37The Aur	2.6490	11000.	72	28385	No
29	GOM_TRA_1PNPDE20070805_024112_000000382060_00275_28385_4499.N1	05-AUG-2007 02:41:12	Twilight	38.000	176	23Zet Tau	3.0200	22000.	76	28385	No
30	GOM_TRA_1PNPDE20070805_024455_000000472060_00275_28385_4500.N1	05-AUG-2007 02:44:55	Dark	47.000	14	58Alp Ori	0.87000	3000.0	94	28385	No
31	GOM_TRA_1PNPDE20070805_024745_000000442060_00275_28385_4501.N1	05-AUG-2007 02:47:45	Dark	44.000	30	46Eps Ori	1.6940	30000.	88	28385	No
32	GOM_TRA_1PNPDE20070805_025019_000000572060_00275_28385_4502.N1	05-AUG-2007 02:50:19	Dark	57.000	7	19Bet Ori	0.10000	14000.	114	28385	No
33	GOM_TRA_1PNPDE20070805_025226_000000422060_00275_28385_4503.N1	05-AUG-2007 02:52:26	Dark	42.000	101	11Alp Lep	2.5820	7000.0	84	28385	No
34	GOM_TRA_1PNPDE20070805_031000_000000482060_00276_28386_4504.N1	05-AUG-2007 03:10:00	Dark	47.500	9	Alp Eri	0.45300	24000.	95	28386	No
35	GOM_TRA_1PNPDE20070805_031136_000000372060_00276_28386_4505.N1	05-AUG-2007 03:11:36	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28386	No
36	GOM_TRA_1PNPDE20070805_031638_000000412060_00276_28386_4506.N1	05-AUG-2007 03:16:38	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	28386	No
37	GOM_TRA_1PNPDE20070805_032003_000000352060_00276_28386_4507.N1	05-AUG-2007 03:20:03	Straylight	35.000	31	Alp Gru	1.7340	15200.	70	28386	No
38	GOM_TRA_1PNPDE20070805_033022_000000372060_00276_28386_4508.N1	05-AUG-2007 03:30:22	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	28386	No
39	GOM_TRA_1PNPDE20070805_033835_000000372060_00276_28386_4509.N1	05-AUG-2007 03:38:35	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	28386	No
40	GOM_TRA_1PNPDE20070805_034006_000000362060_00276_28386_4510.N1	05-AUG-2007 03:40:06	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28386	No
41	GOM_TRA_1PNPDE20070805_034712_000000342060_00276_28386_4511.N1	05-AUG-2007 03:47:12	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	28386	No
42	GOM_TRA_1PNPDE20070805_034903_000000362060_00276_28386_4512.N1	05-AUG-2007 03:49:03	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	28386	No
43	GOM_TRA_1PNPDE20070805_035104_000000342060_00276_28386_4513.N1	05-AUG-2007 03:51:04	Bright	33.500	69	33Gam Dra	2.2310	3800.0	67	28386	No
44	GOM_TRA_1PNPDE20070805_040138_000000352060_00276_28386_4514.N1	05-AUG-2007 04:01:38	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	28386	No
45	GOM_TRA_1PNPDE20070805_041434_000000352060_00276_28386_4661.N1	05-AUG-2007 04:14:34	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	28386	No
46	GOM_TRA_1PNPDE20070805_041650_000000362060_00276_28386_4662.N1	05-AUG-2007 04:16:50	Bright	35.500	107	37The Aur	2.6490	11000.	71	28386	No
47	GOM_TRA_1PNPDE20070805_042149_000000422060_00276_28386_4663.N1	05-AUG-2007 04:21:49	Twilight	42.000	176	23Zet Tau	3.0200	22000.	84	28386	No
48	GOM_TRA_1PNPDE20070805_042531_000000542060_00276_28386_4664.N1	05-AUG-2007 04:25:31	Dark	54.000	14	58Alp Ori	0.87000	3000.0	108	28386	No
49	GOM_TRA_1PNPDE20070805_042821_000000442060_00276_28386_4665.N1	05-AUG-2007 04:28:21	Dark	43.500	30	46Eps Ori	1.6940	30000.	87	28386	No

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



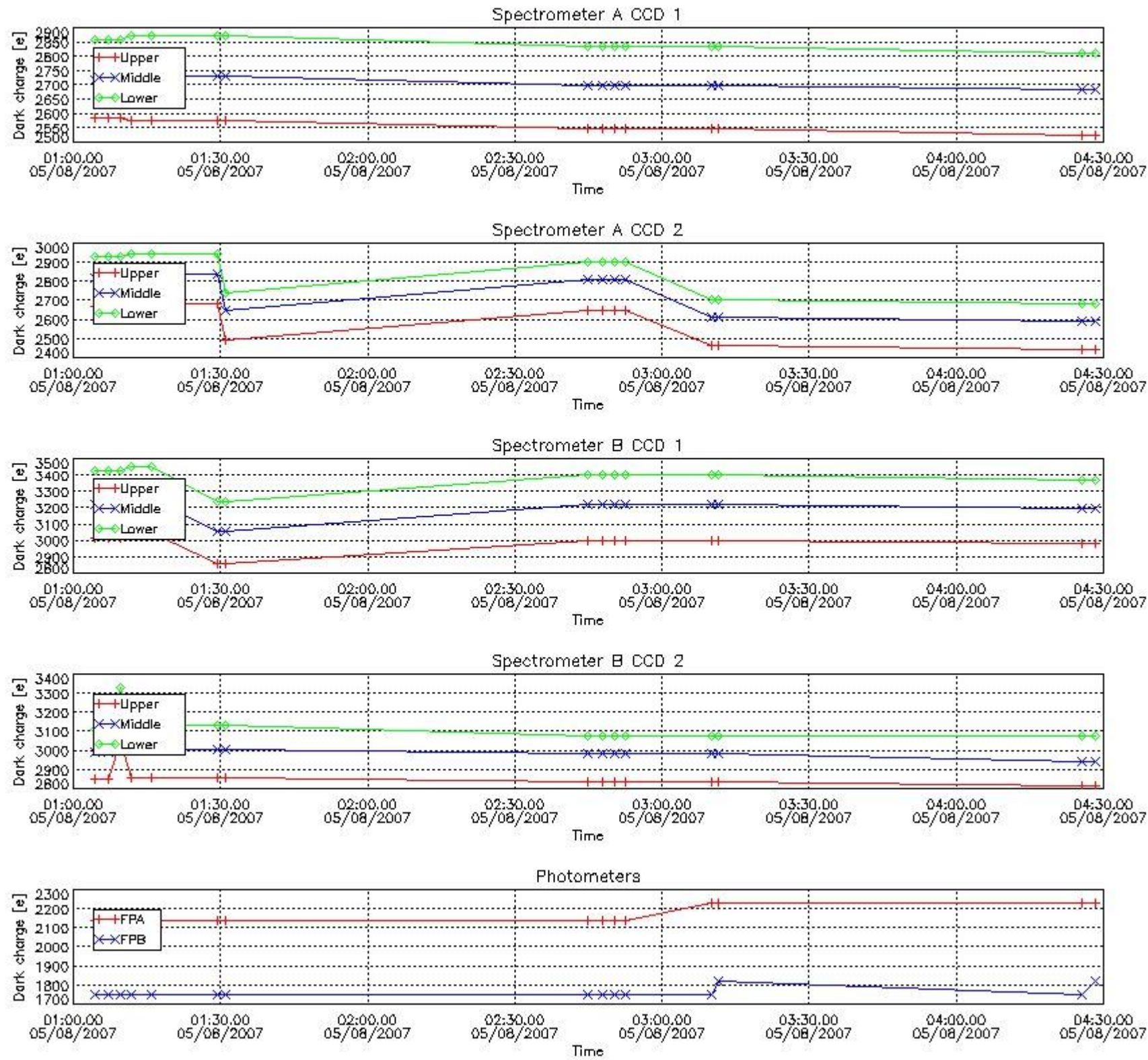
4. Overview of dark signal processing per product

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



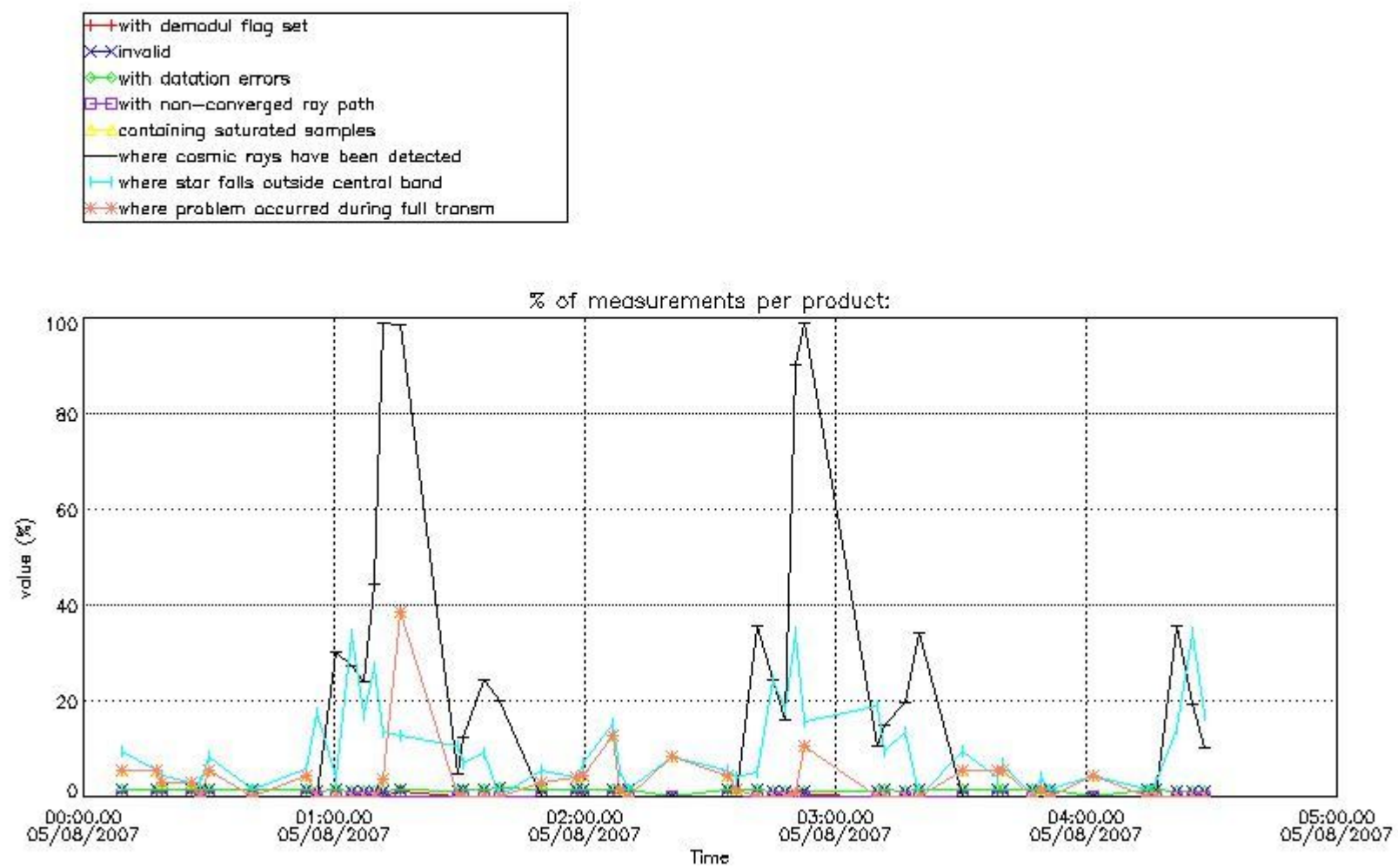
5. Demodulation flag and quality information monitoring

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.

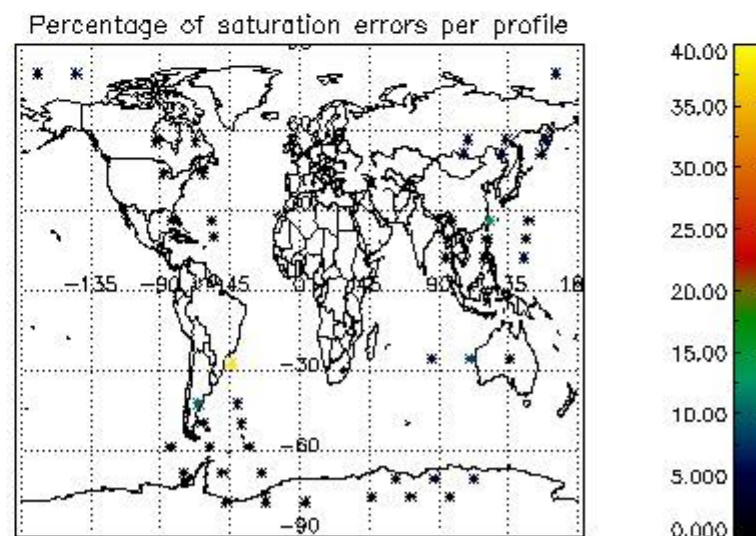
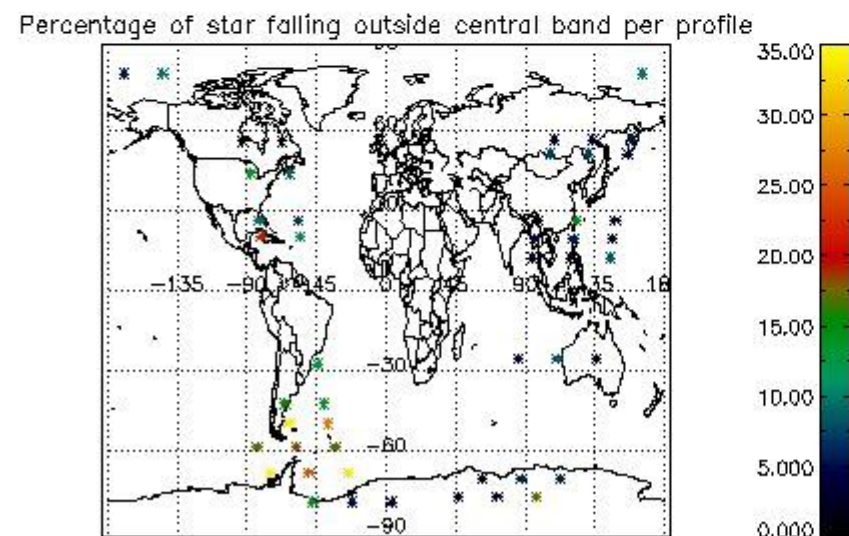
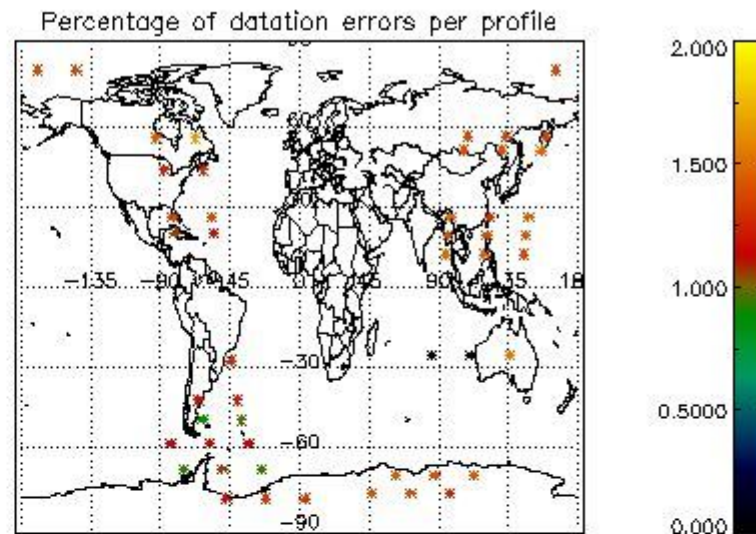
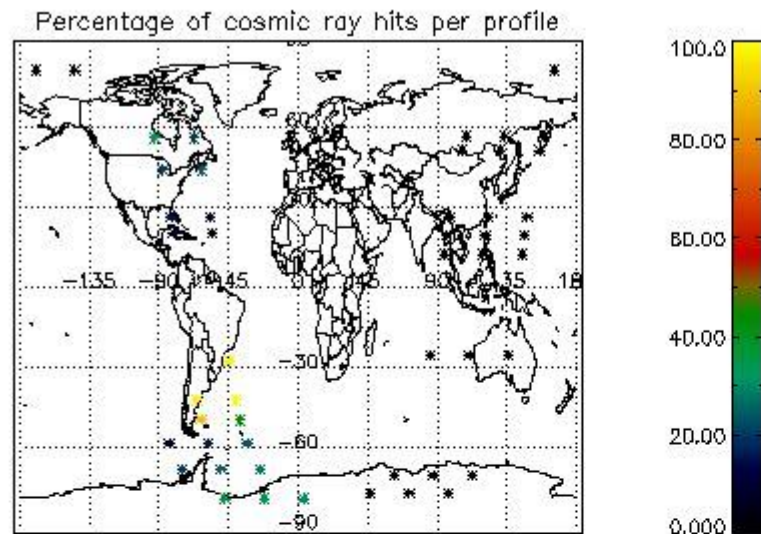
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.4082 %
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)



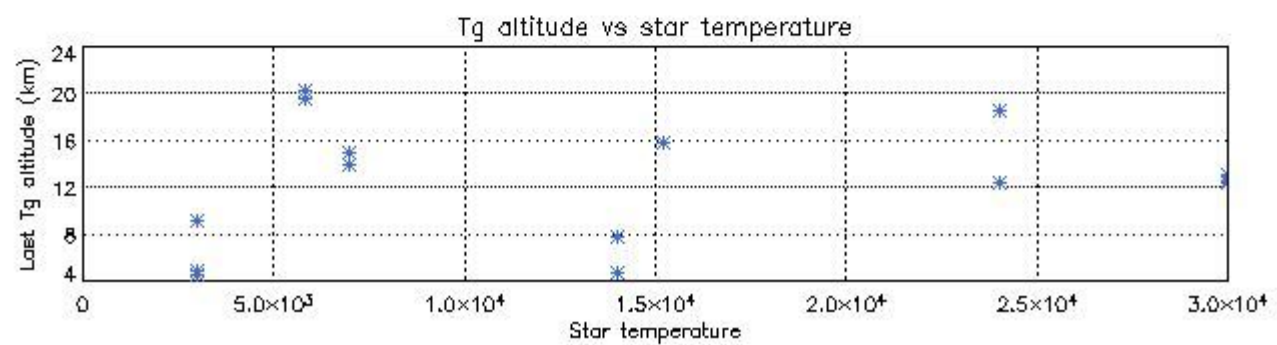
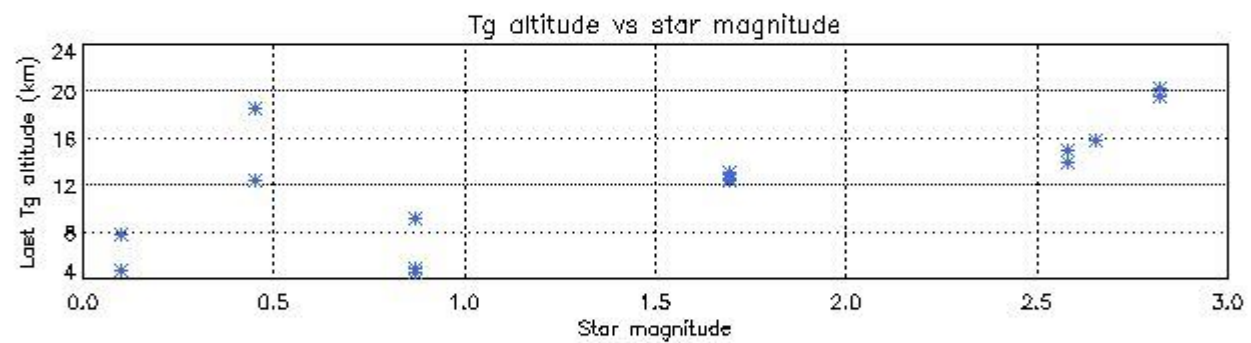
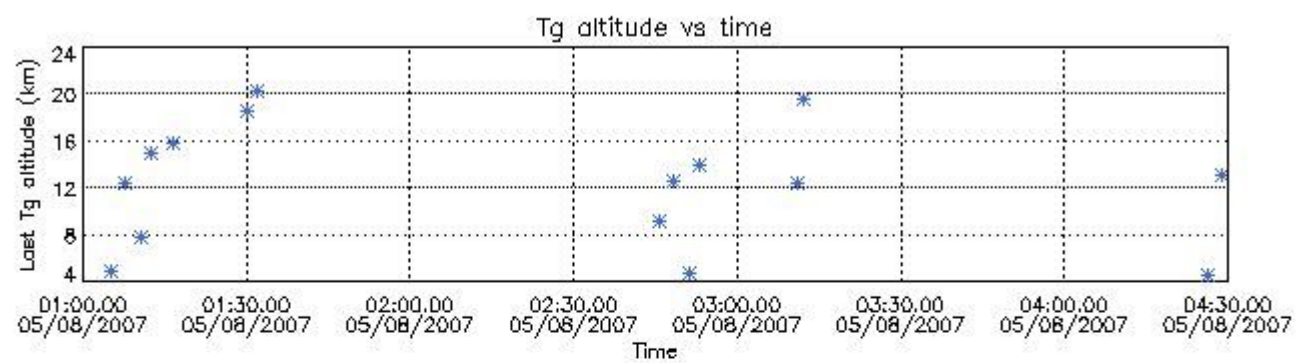
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.289	21.901	NaN
St. deviation:	5.2244	2.9219	NaN
Maximum:	20.315	28.371	NaN
Minimum:	4.4729	15.328	NaN
Number of data:	15.000	27.000	NaN

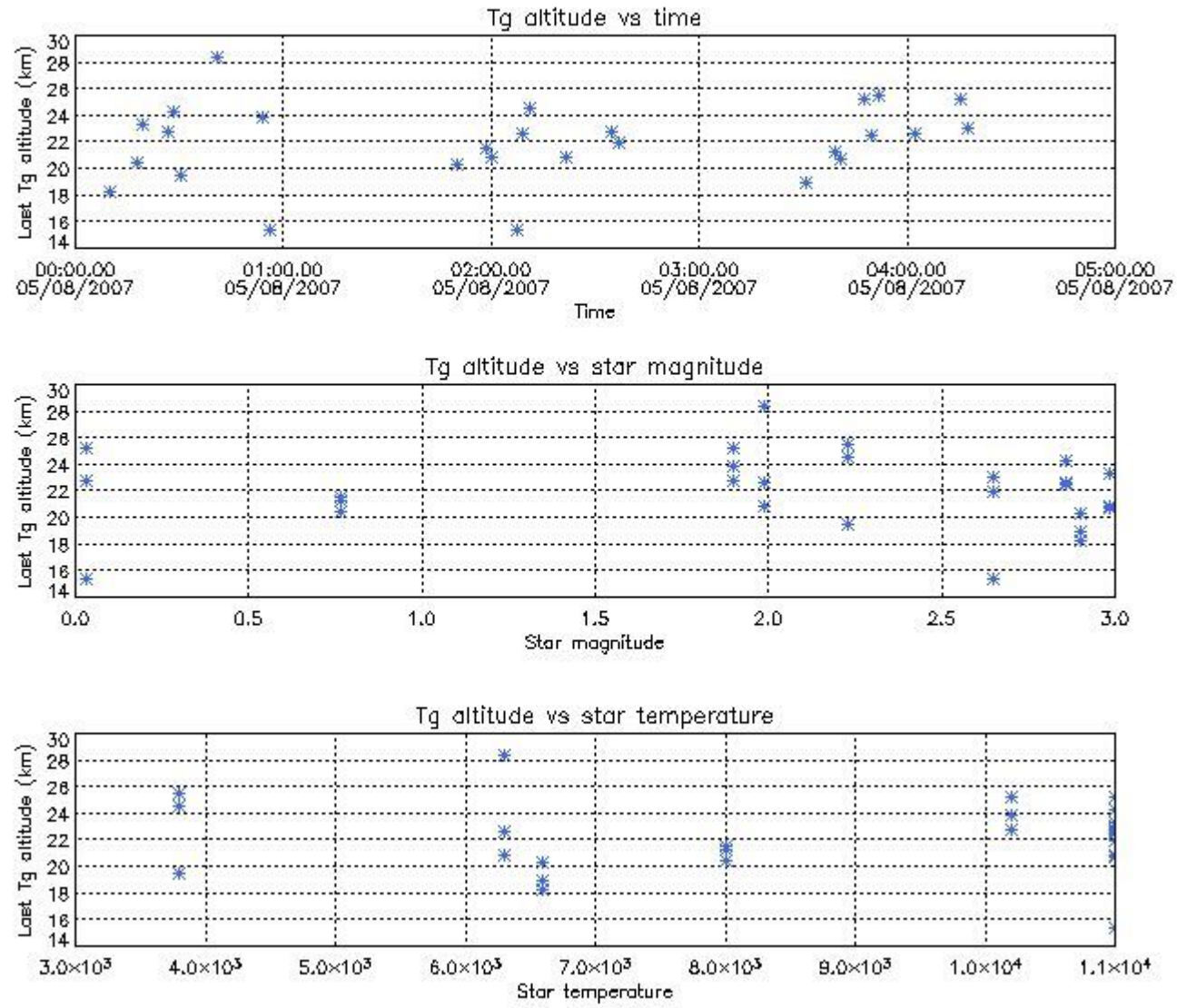
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

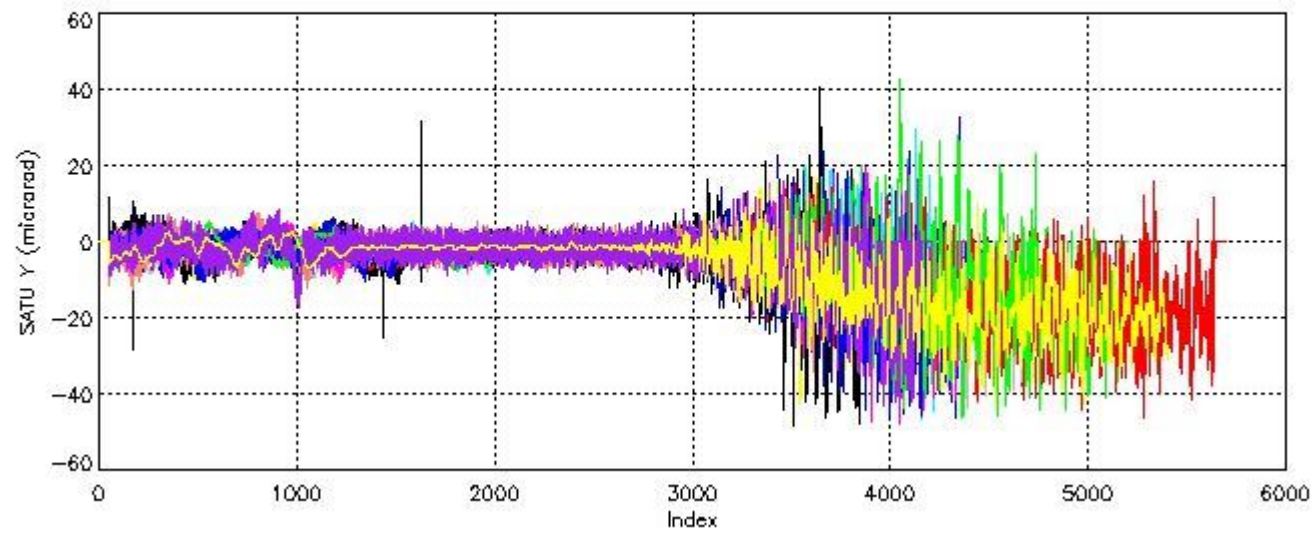
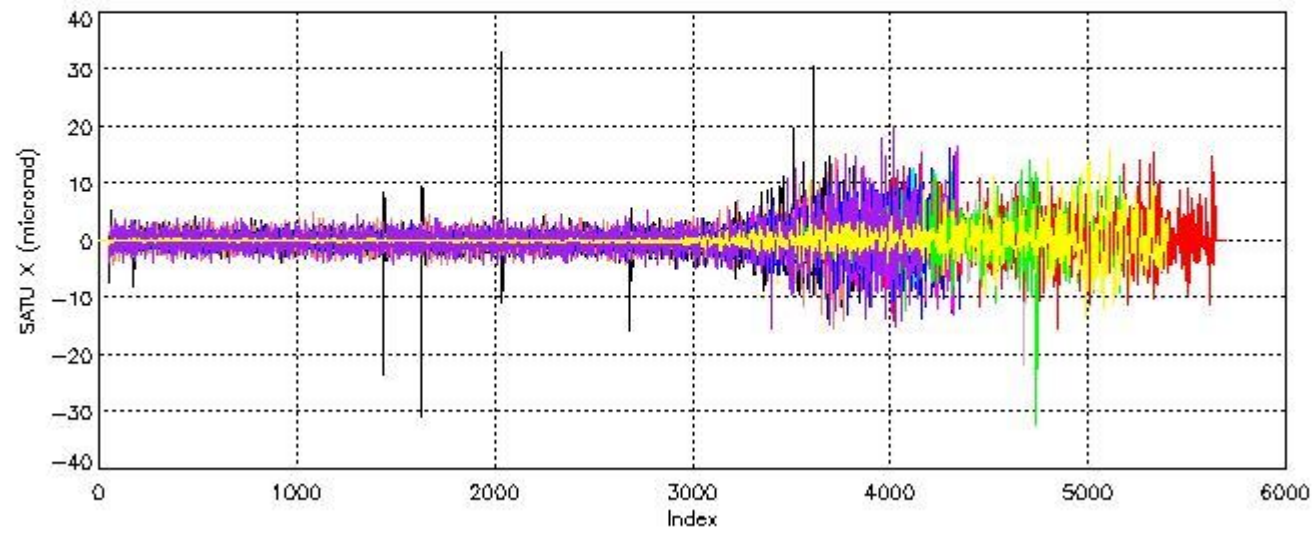


7. Star Acquisition and Tracking Unit (SATU)

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:	0.037405	-1.4654	0.057259	-1.1154
St. deviation:	0.49153	2.4489	0.83131	2.7942
Maximum:	5.1000	11.500	6.8000	11.400
Minimum:	-7.9000	-28.400	-5.9000	-15.000

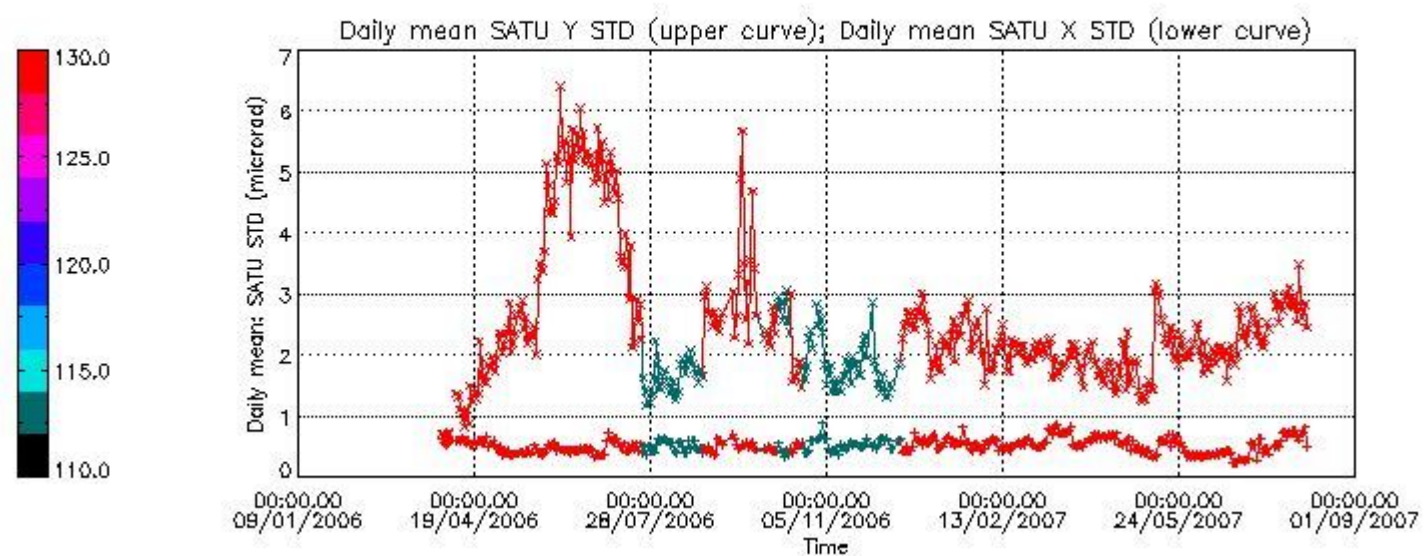
Number of data:	13550.	13550.	22050.	22050.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

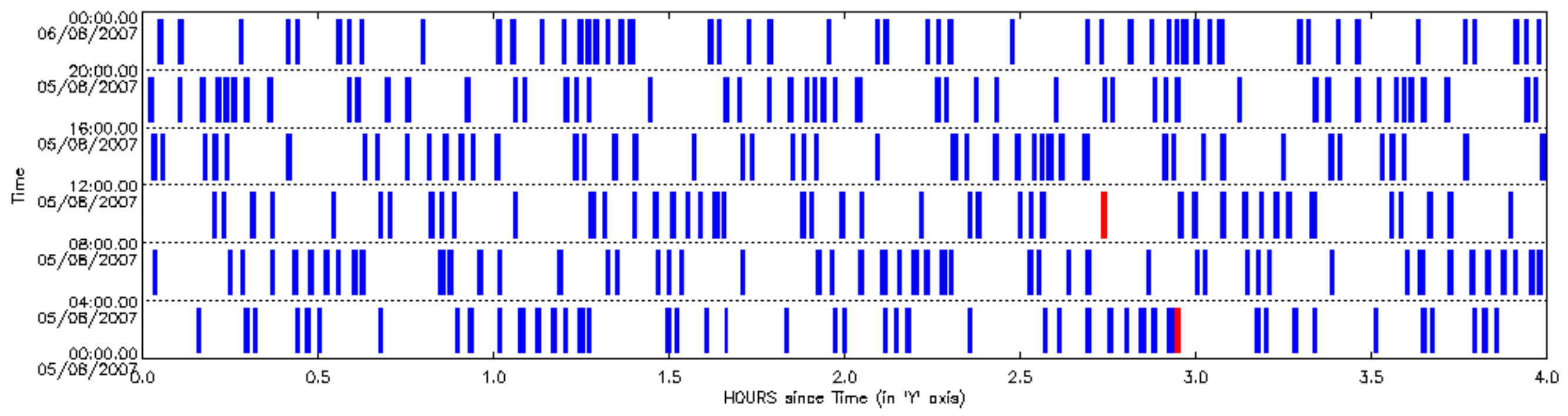
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

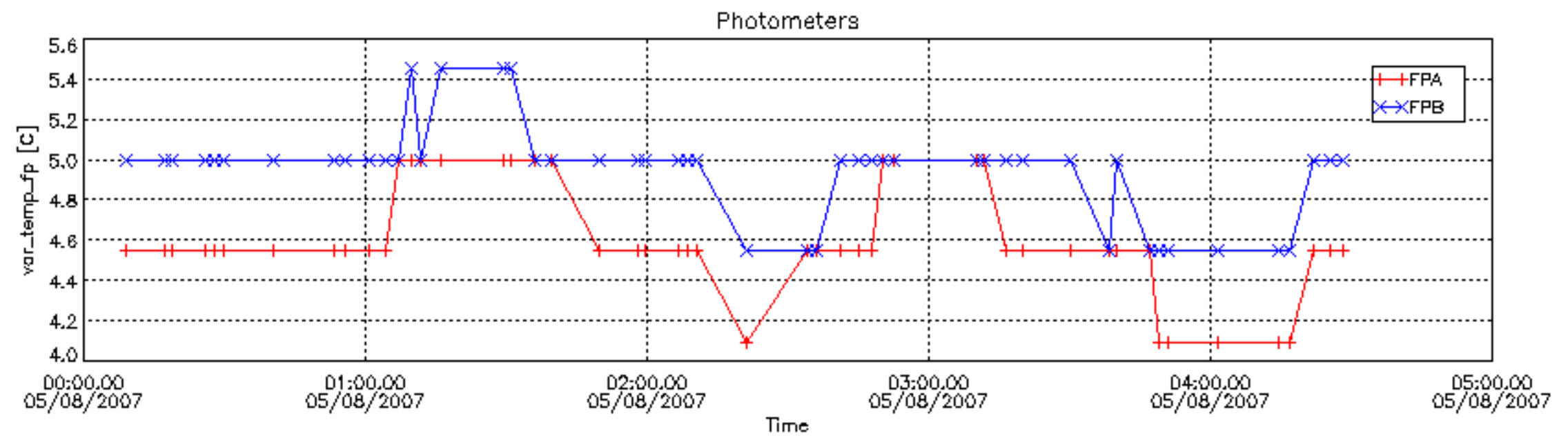
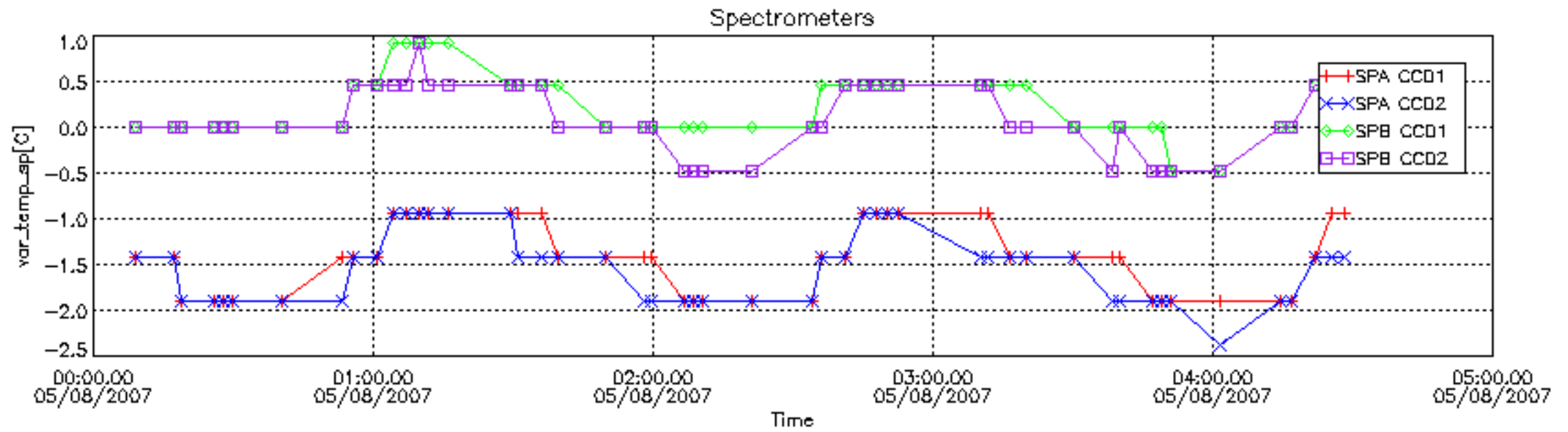


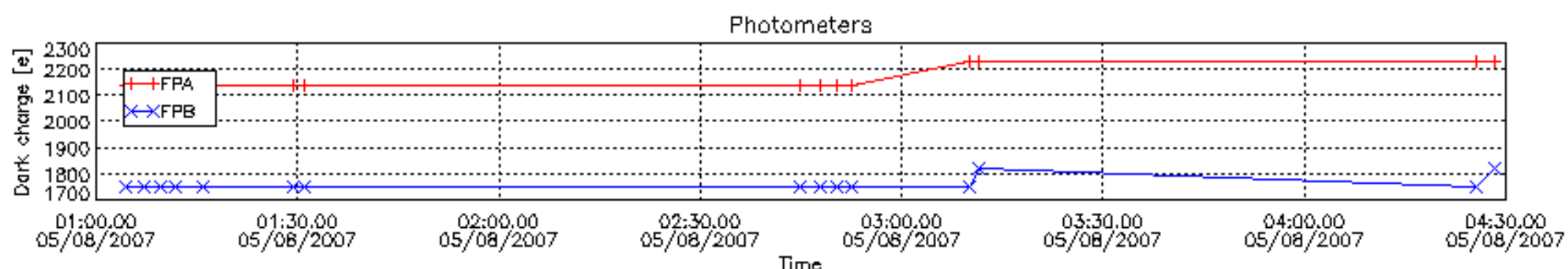
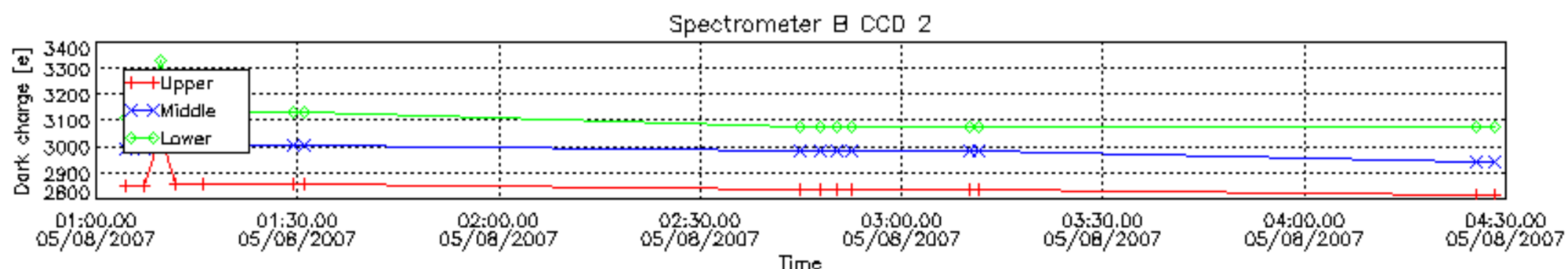
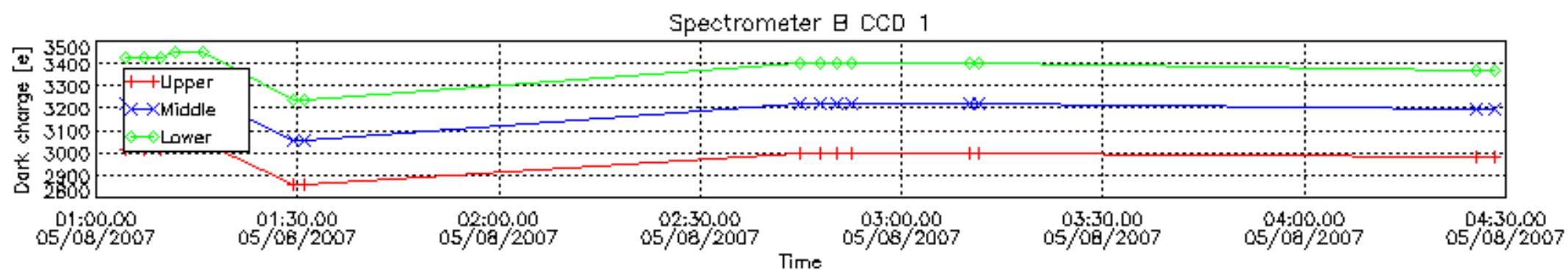
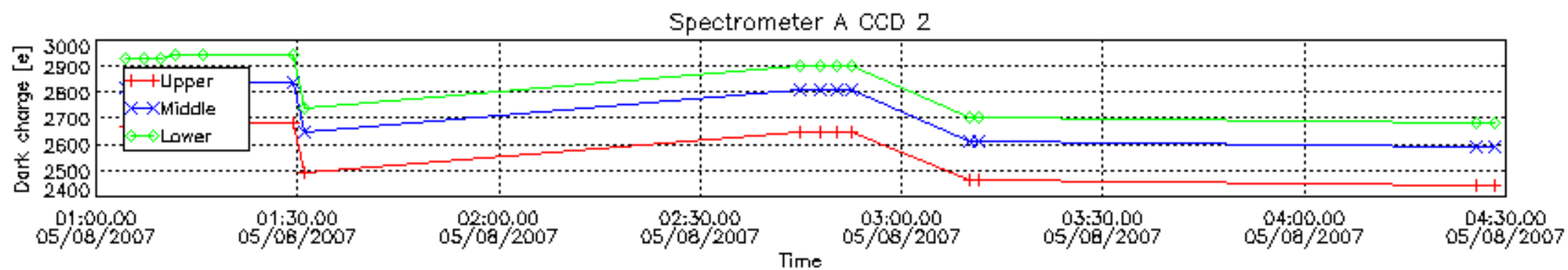
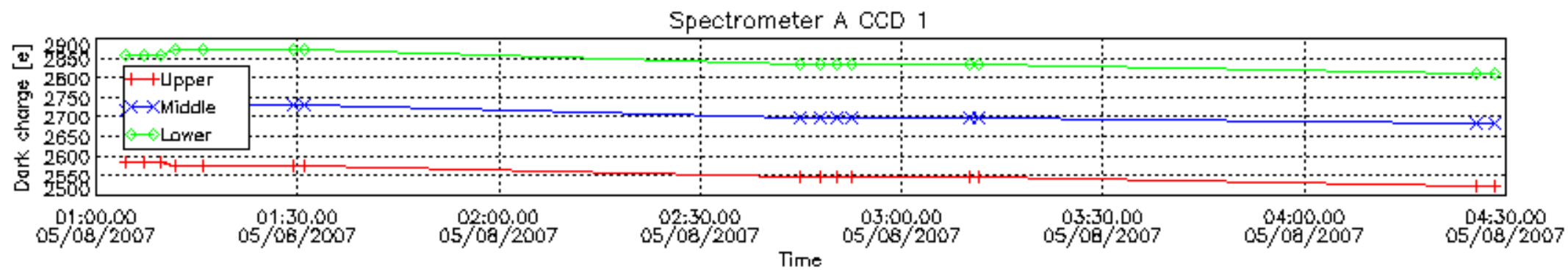
8. Auxiliary Data Files used for the production reported in section 2.4

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.

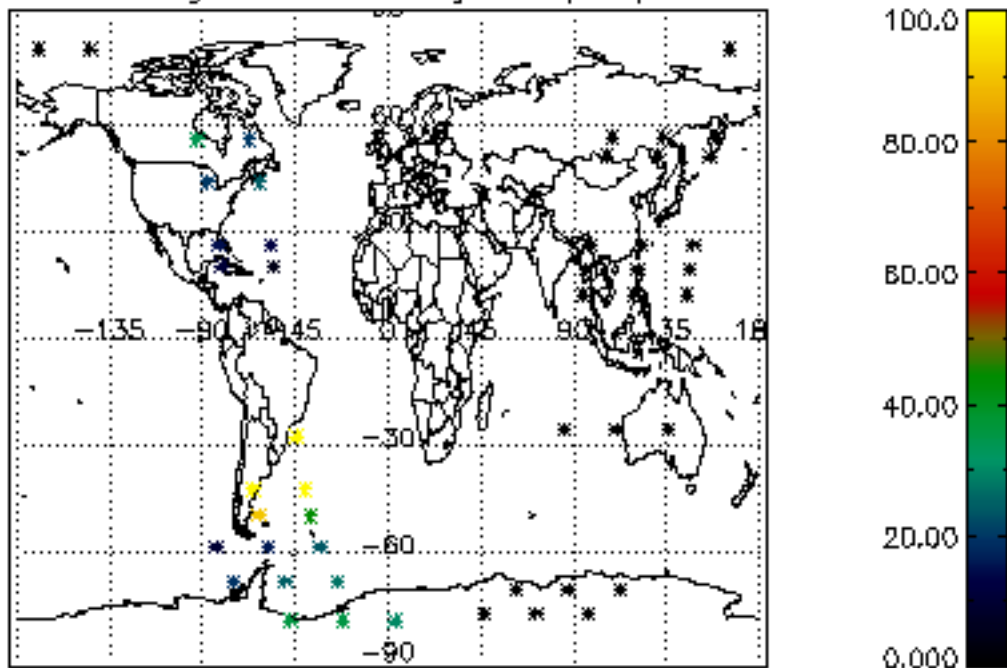
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-AUG-2007 00:09:10
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070803_145735_20070802_000000_20100101_000000	1	05-AUG-2007 00:09:10
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-AUG-2007 00:09:10
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-AUG-2007 00:09:10
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-AUG-2007 00:09:10
ECMWF_FILE	AUX_ECF_AXNECM20070804_212117_20070804_210000_20070805_090000	1	05-AUG-2007 00:09:10
ECMWF_FILE	AUX_ECF_AXNECM20070804_212115_20070805_030000_20070805_150000	45	05-AUG-2007 04:14:34
OPTIONAL_ECMWF_FILE	MISSING	1	05-AUG-2007 00:09:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070804_214621_000057382060_00272_28382_3902.N1	1	05-AUG-2007 00:09:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070804_232718_000057382060_00273_28383_3903.N1	14	05-AUG-2007 01:11:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070805_010815_000041442060_00274_28384_3904.N1	27	05-AUG-2007 02:33:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070805_022238_000057382060_00275_28385_3905.N1	45	05-AUG-2007 04:14:34



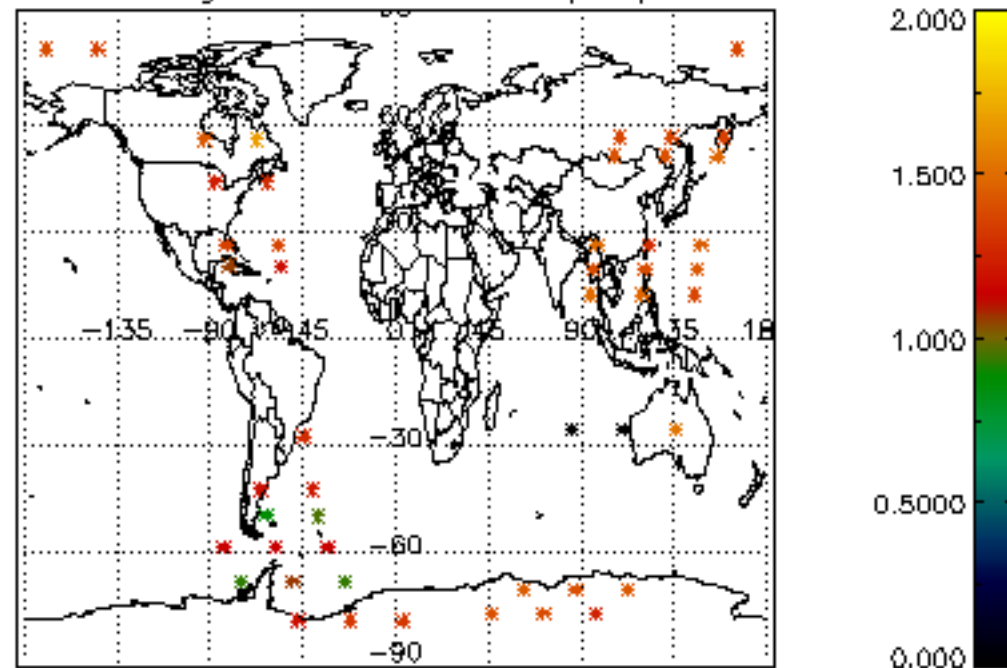




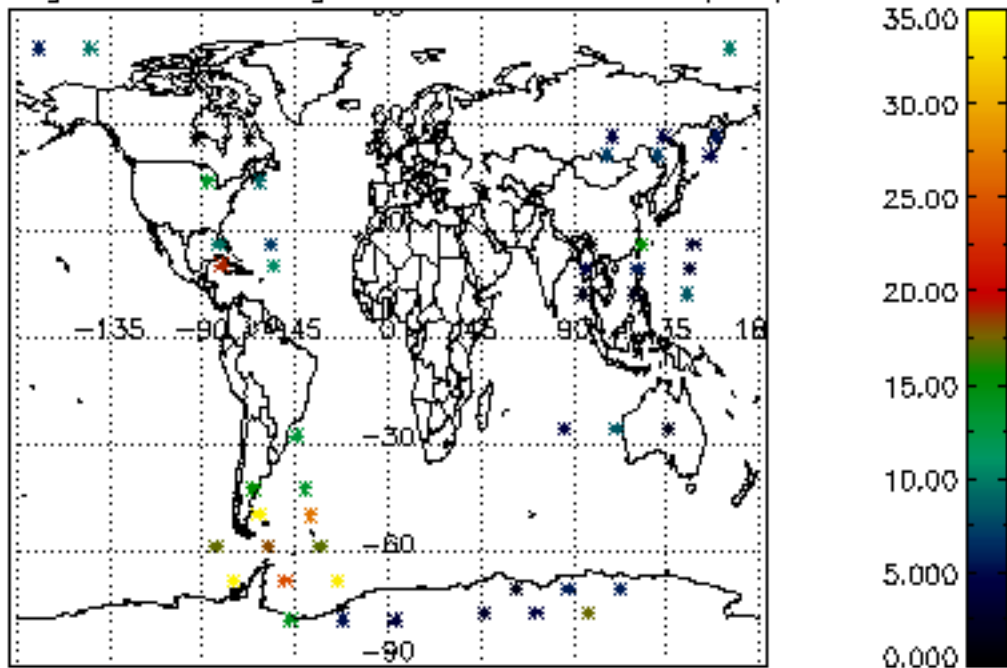
Percentage of cosmic ray hits per profile



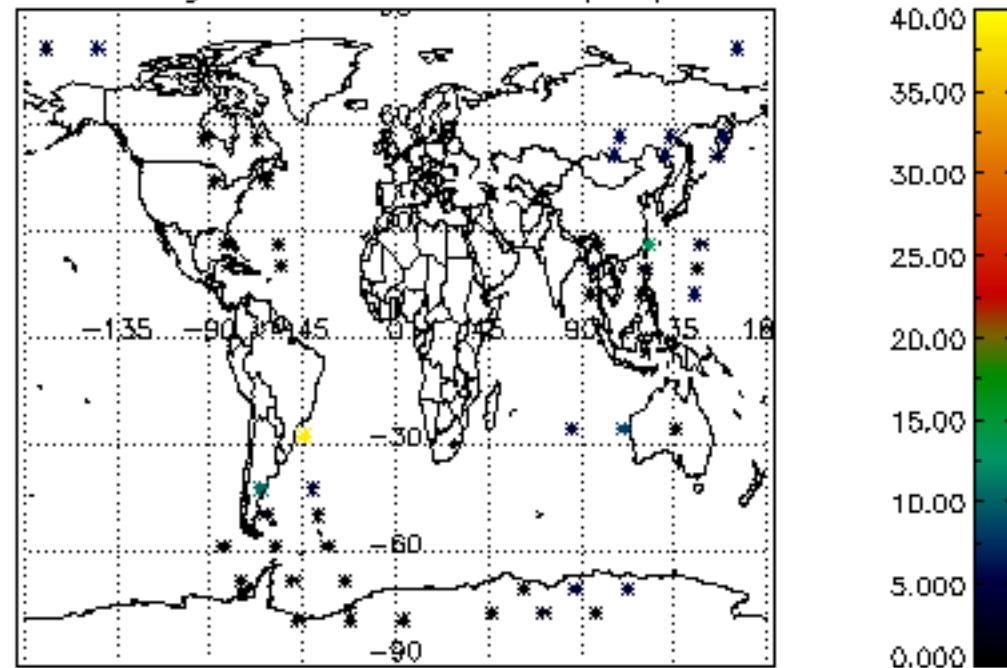
Percentage of datation errors per profile



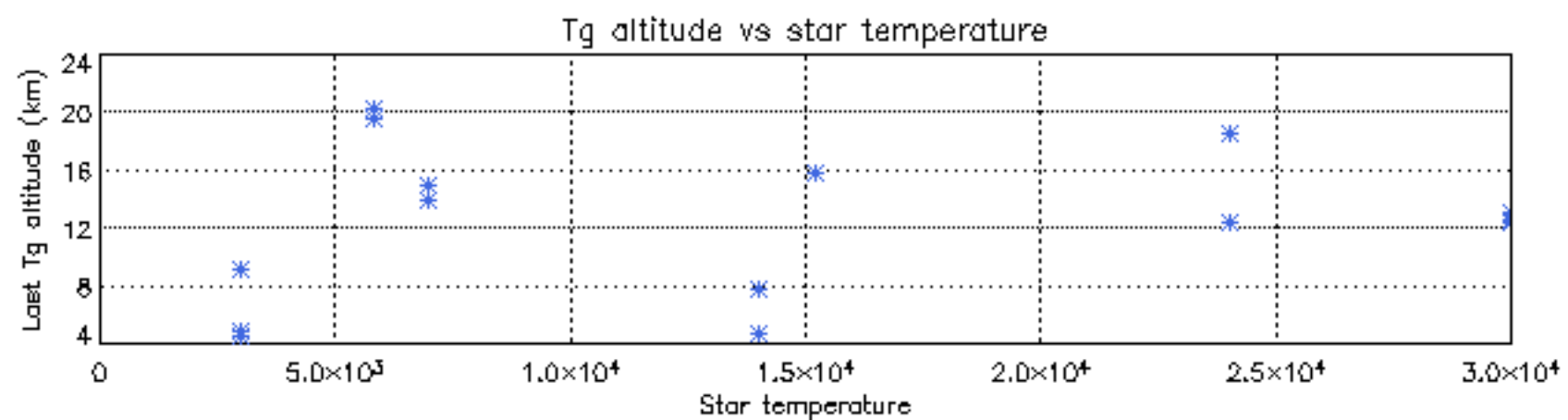
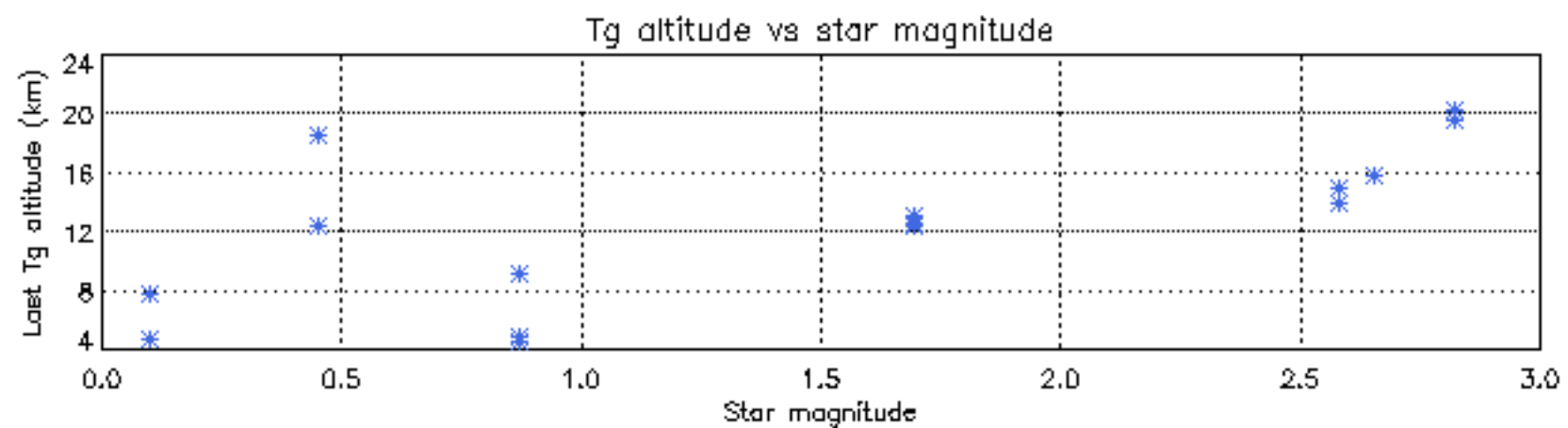
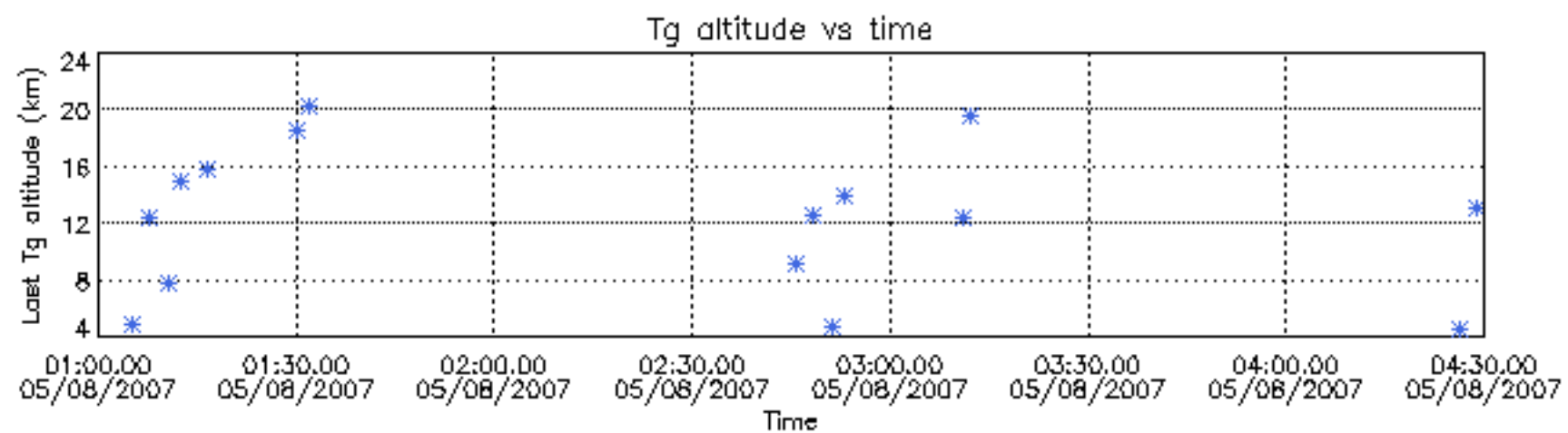
Percentage of star falling outside central band per profile



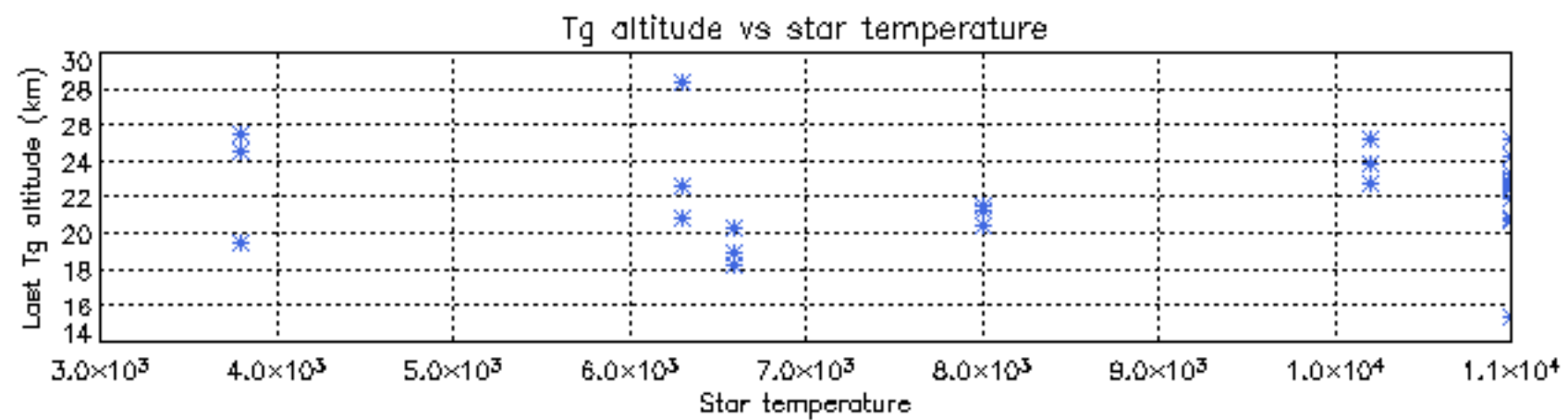
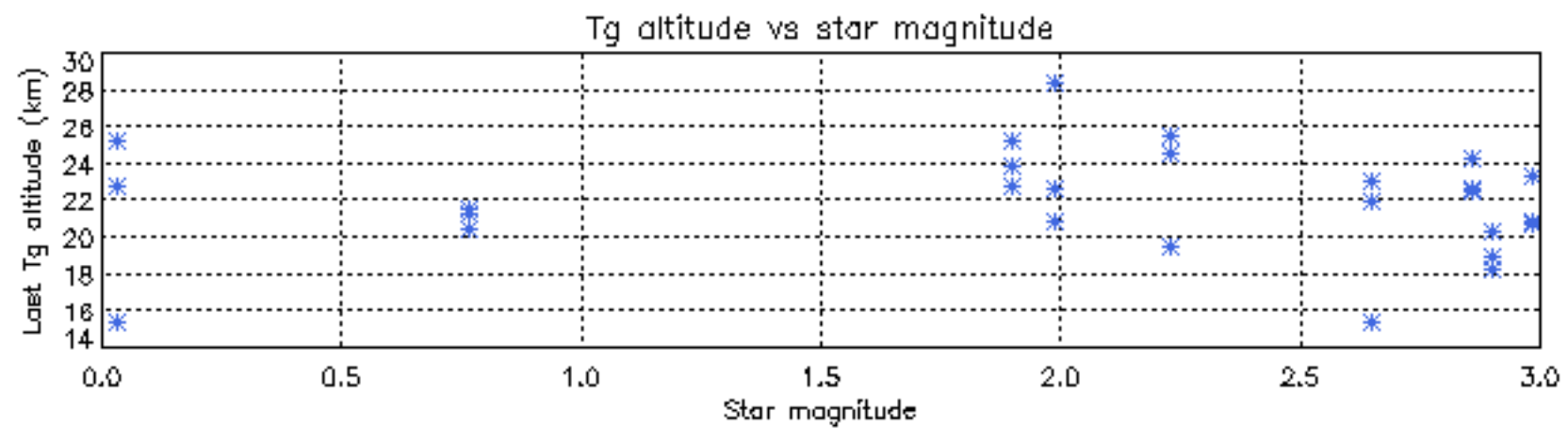
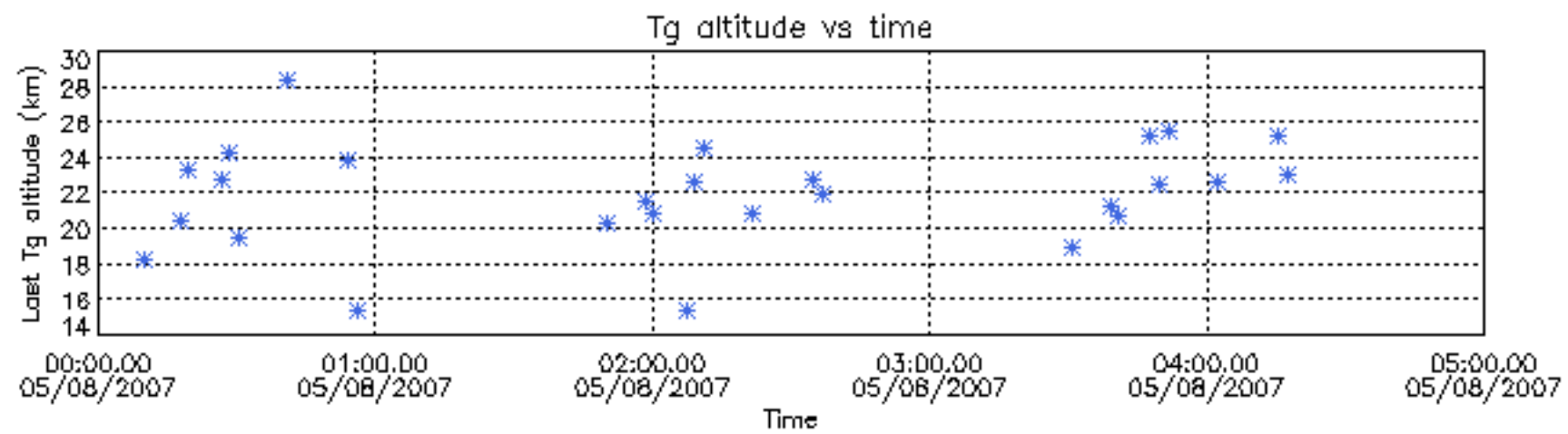
Percentage of saturation errors per profile

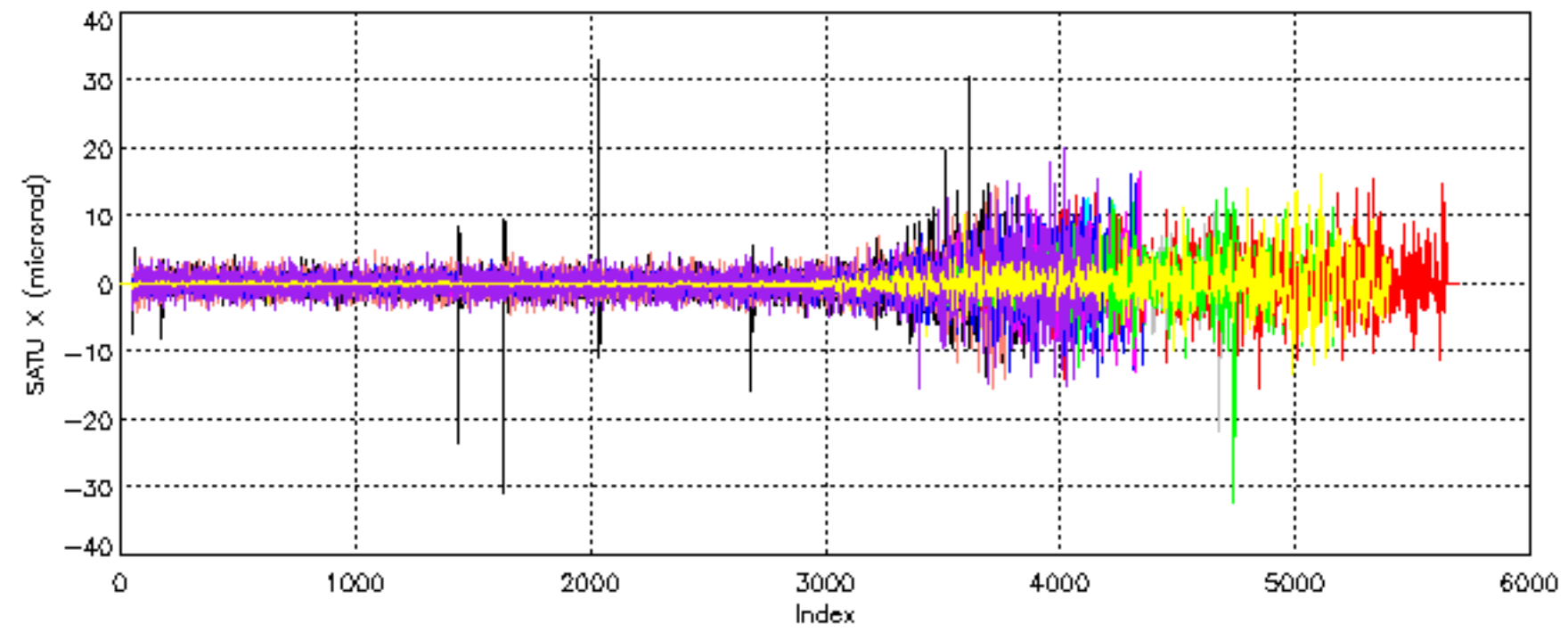


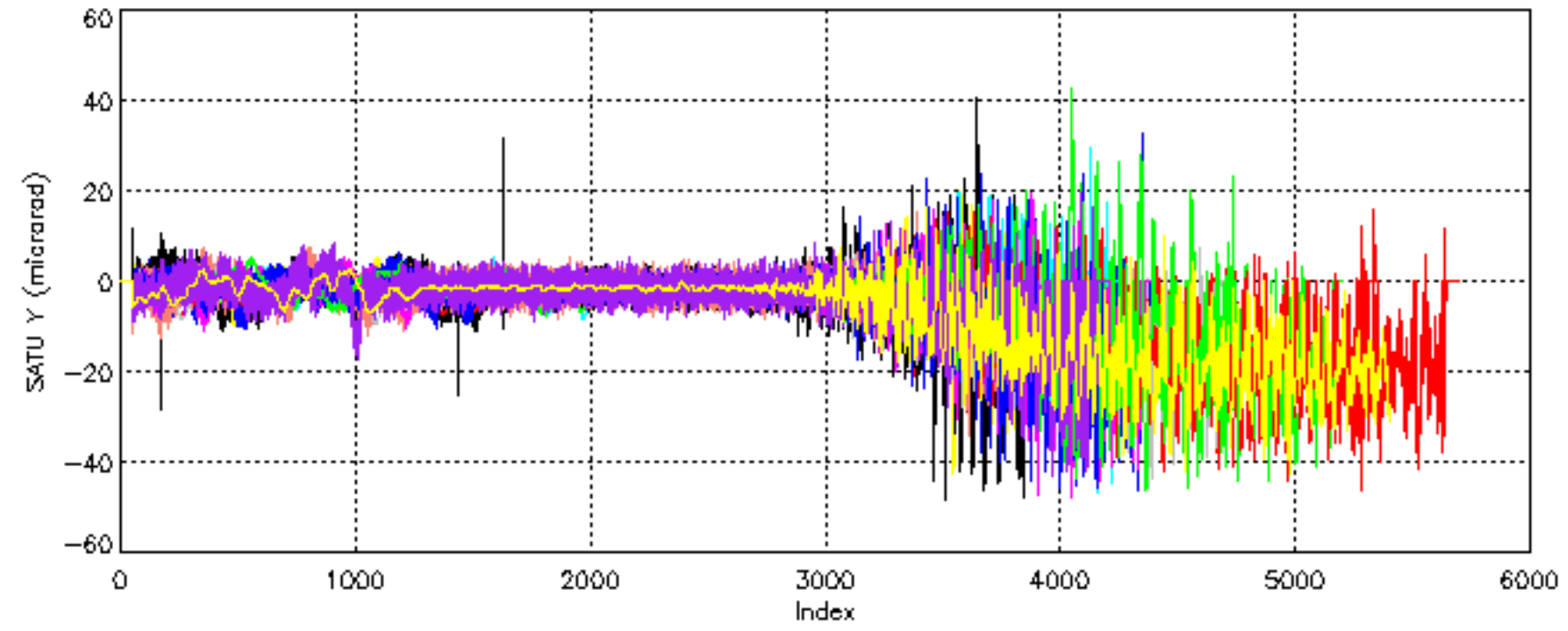
Tangent altitude at which the star is lost

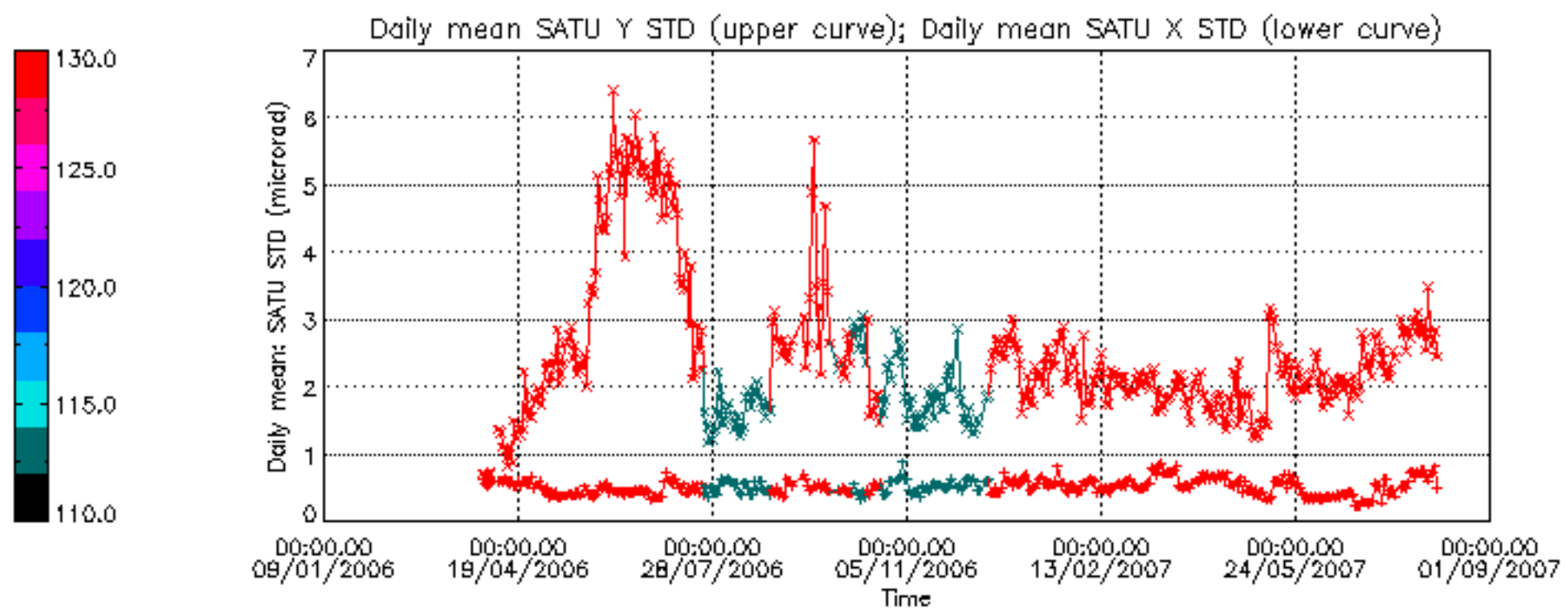


Tangent altitude at which the star is lost









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1; -781.4; 01-AUG-2007 01:36:32; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;28327
 2; -680.8; 01-AUG-2007 01:38:13; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;28327
 3; -483.6; 01-AUG-2007 01:41:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28327
 4; 267.4; 01-AUG-2007 01:54:01; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28328
 5; 424.4; 01-AUG-2007 01:56:38; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;28328
 6; 715.8; 01-AUG-2007 02:01:29; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;28328
 7; 909.8; 01-AUG-2007 02:04:43; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;28328
 8; 1412.3; 01-AUG-2007 02:13:06; Dark ; 52.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 104; 0;28328
 9; 1555.1; 01-AUG-2007 02:15:29; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28328
 10; 2144.7; 01-AUG-2007 02:25:18; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28328
 11; 2569.6; 01-AUG-2007 02:32:23; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;28328
 12; 2796.3; 01-AUG-2007 02:36:10; Bright; 35.5; 69; 33Gam Dra ; 2.23; 3800;occ; 71; 0;28328
 13; 3035.0; 01-AUG-2007 02:40:09; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28328
 14; 3284.8; 01-AUG-2007 02:44:18; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;28328
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 2; -1690.0; 01-AUG-2007 03:02:00; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28328
 3; -1397.3; 01-AUG-2007 03:06:52; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;28328
 4; -1178.1; 01-AUG-2007 03:10:31; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;28328
 5; -1013.2; 01-AUG-2007 03:13:16; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;28328
 6; -865.6; 01-AUG-2007 03:15:44; Dark ; 43.5; 7; 19Bet Ori ; 0.10; 14000;occ; 87; 0;28328
 7; -781.2; 01-AUG-2007 03:17:08; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;28328
 8; -680.5; 01-AUG-2007 03:18:49; Dark ; 41.5; 139; 9Bet Lep ; 2.83; 5600;occ; 83; 0;28328
 9; -580.1; 01-AUG-2007 03:20:29; Dark ; 36.0; 177; 1Zet CMa ; 3.02; 26000;occ; 72; 0;28328
 10; -483.5; 01-AUG-2007 03:22:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28328
 11; 268.0; 01-AUG-2007 03:34:37; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;28329
 12; 424.7; 01-AUG-2007 03:37:14; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28329
 13; 716.4; 01-AUG-2007 03:42:06; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;28329
 14; 910.2; 01-AUG-2007 03:45:20; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28329
 15; 1412.6; 01-AUG-2007 03:53:42; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28329
 16; 1555.4; 01-AUG-2007 03:56:05; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;28329
 17; 2144.9; 01-AUG-2007 04:05:54; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;28329
 18; 2569.7; 01-AUG-2007 04:12:59; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;28329
 19; 2796.5; 01-AUG-2007 04:16:46; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;28329
 20; 3035.5; 01-AUG-2007 04:20:45; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28329
 21; 3285.2; 01-AUG-2007 04:24:55; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;28329
 22; 3441.2; 01-AUG-2007 04:27:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28329

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 2; -1689.8; 01-AUG-2007 04:42:36; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;28329
 3; -1397.3; 01-AUG-2007 04:47:28; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28329
 4; -1177.7; 01-AUG-2007 04:51:08; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28329
 5; -1012.9; 01-AUG-2007 04:53:53; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;28329
 6; -865.0; 01-AUG-2007 04:56:21; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;28329
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 11; 268.4; 01-AUG-2007 05:15:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;28330
 12; 425.1; 01-AUG-2007 05:17:51; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28330
 13; 716.8; 01-AUG-2007 05:22:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28330
 14; 910.5; 01-AUG-2007 05:25:56; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28330
 15; 1412.8; 01-AUG-2007 05:34:18; Dark ; 47.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 94; 0;28330
 16; 1555.7; 01-AUG-2007 05:36:41; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28330
 17; 2145.1; 01-AUG-2007 05:46:31; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;28330
 18; 2569.7; 01-AUG-2007 05:53:35; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;28330
 19; 2796.7; 01-AUG-2007 05:57:22; Bright; 37.5; 69; 33Gam Dra ; 2.23; 3800;occ; 75; 0;28330
 20; 3035.9; 01-AUG-2007 06:01:21; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;28330
 21; 3285.4; 01-AUG-2007 06:05:31; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;28330
 22; 3441.2; 01-AUG-2007 06:08:07; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28330

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 2; 1557.1; 01-AUG-2007 20:42:06; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28339
 3; 2145.4; 01-AUG-2007 20:51:54; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;28339
 4; 2570.3; 01-AUG-2007 20:58:59; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;28339
 5; 2798.1; 01-AUG-2007 21:02:47; Bright; 38.5; 69; 33Gam Dra ; 2.23; 3800;occ; 77; 0;28339

6; 3038.7; 01-AUG-2007 21:06:48; Bright; 29.0; 119; 14Eta Dra ; 2.73; 4700;occ; 58; 0;28339
7; 3287.8; 01-AUG-2007 21:10:57; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;28339
8; 3441.0; 01-AUG-2007 21:13:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28339
9; 4212.8; 01-AUG-2007 21:26:22; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;28339
10; 4347.2; 01-AUG-2007 21:28:36; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;28339
11; 4641.0; 01-AUG-2007 21:33:30; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28339
12; 4860.9; 01-AUG-2007 21:37:10; Dark ; 37.5; 14; 58Alp Ori ; 0.87; 3000;occ; 75; 0;28339
13; 5026.4; 01-AUG-2007 21:39:55; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;28339
14; 5175.2; 01-AUG-2007 21:42:24; Dark ; 34.0; 7; 19Bet Ori ; 0.10; 14000;occ; 68; 0;28339
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2; -676.1; 01-AUG-2007 21:45:29; Dark ; 40.5; 139; 9Bet Lep ; 2.83; 5600;occ; 81; 0;28339
3; -578.3; 01-AUG-2007 21:47:07; Dark ; 37.0; 177; 1Zet CMA ; 3.02; 26000;occ; 74; 0;28339
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5; 274.2; 01-AUG-2007 22:01:19; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28340
6; 427.5; 01-AUG-2007 22:03:52; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28340
7; 720.9; 01-AUG-2007 22:08:46; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28340
8; 913.0; 01-AUG-2007 22:11:58; Dark ; 37.5; 45; Alp Pav ; 1.94; 26000;occ; 75; 0;28340
9; 1414.5; 01-AUG-2007 22:20:19; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28340
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11; 2145.4; 01-AUG-2007 22:32:30; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28340
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13; 2798.2; 01-AUG-2007 22:43:23; Bright; 33.0; 69; 33Gam Dra ; 2.23; 3800;occ; 66; 0;28340
14; 3288.1; 01-AUG-2007 22:51:33; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;28340
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16; 4213.0; 01-AUG-2007 23:06:58; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;28340
17; 4347.5; 01-AUG-2007 23:09:12; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28340
18; 4641.2; 01-AUG-2007 23:14:06; Dark ; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;28340
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3; -481.3; 01-AUG-2007 23:29:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28340
4; 274.7; 01-AUG-2007 23:41:55; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28341
5; 427.7; 01-AUG-2007 23:44:28; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28341
6; 721.5; 01-AUG-2007 23:49:22; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28341
7; 913.2; 01-AUG-2007 23:52:34; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28341
8; 1414.5; 02-AUG-2007 00:00:55; Dark ; 51.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 102; 0;28341
9; 1557.2; 02-AUG-2007 00:03:18; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28341
10; 2145.5; 02-AUG-2007 00:13:06; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;28341
11; 2570.4; 02-AUG-2007 00:20:11; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;28341
12; 2798.4; 02-AUG-2007 00:23:59; Bright; 37.0; 69; 33Gam Dra ; 2.23; 3800;occ; 74; 0;28341
13; 3288.3; 02-AUG-2007 00:32:09; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;28341
14; 3441.0; 02-AUG-2007 00:34:42; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;28341
15; 4213.3; 02-AUG-2007 00:47:34; Bright; 46.5; 42; 34Bet Aur ; 1.90; 10200;occ; 93; 0;28341
16; 4347.7; 02-AUG-2007 00:49:48; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;28341
17; 4641.1; 02-AUG-2007 00:54:42; Dark ; 41.0; 176; 23Zet Tau ; 3.02; 22000;occ; 82; 0;28341
18; 4861.2; 02-AUG-2007 00:58:22; Dark ; 39.0; 14; 58Alp Ori ; 0.87; 3000;occ; 78; 0;28341
19; 5027.1; 02-AUG-2007 01:01:08; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;28341
20; 5153.9; 02-AUG-2007 01:03:15; Dark ; 41.0; 56; 53Kap Ori ; 2.07; 30000;occ; 82; 0;28341
21; 5257.0; 02-AUG-2007 01:04:58; Dark ; 40.5; 47; 2Bet CMA ; 1.98; 28000;occ; 81; 0;28341
22; 5360.6; 02-AUG-2007 01:06:41; Dark ; 7.5; 139; 9Bet Lep ; 2.83; 5600;occ; 15; 0;28341

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4; -1177.7; 01-AUG-2007 06:31:44; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28330
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9; -579.8; 01-AUG-2007 06:41:42; Dark ; 38.0; 177; 1Zet CMA ; 3.02; 26000;occ; 76; 0;28330
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5; 3439.4; 10-AUG-2007 13:07:43; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;28463
6; 4219.8; 10-AUG-2007 13:20:44; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;28463
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5; 3439.4; 10-AUG-2007 14:48:19; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28464

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 6; 3439.4; 10-AUG-2007 18:09:31; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28466
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 12; 4705.8; 11-AUG-2007 21:20:12; Dark ; 40.5; 44; 24Gam Gem ; 1.93; 11000;occ; 81; 0;28482
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 14; 5086.5; 11-AUG-2007 21:26:33; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;28482
 15; 5210.4; 11-AUG-2007 21:28:37; Dark ; 43.0; 56; 53Kap Ori ; 2.07; 30000;occ; 86; 0;28482

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4; -543.4; 11-AUG-2007 21:33:19; Dark ; 37.0; 177; 1Zet CMA ; 3.02; 26000;occ; 74; 0;28482
5; -444.6; 11-AUG-2007 21:34:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28482
6; 410.2; 11-AUG-2007 21:49:13; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28483
7; 778.0; 11-AUG-2007 21:55:20; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;28483
8; 988.7; 11-AUG-2007 21:58:51; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;28483
9; 1170.3; 11-AUG-2007 22:01:53; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;28483
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13; 2711.0; 11-AUG-2007 22:27:33; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;28483
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16; 4220.1; 11-AUG-2007 22:52:42; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;28483
17; 4361.7; 11-AUG-2007 22:55:04; Bright; 43.0; 107; 37The Aur ; 2.65; 11000;occ; 86; 0;28483
18; 4612.1; 11-AUG-2007 22:59:14; Dark ; 42.5; 151; 13Mu Gem ; 2.89; 3000;occ; 85; 0;28483
19; 4706.0; 11-AUG-2007 23:00:48; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;28483
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21; 5087.0; 11-AUG-2007 23:07:09; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;28483
22; 5210.8; 11-AUG-2007 23:09:13; Dark ; 42.5; 56; 53Kap Ori ; 2.07; 30000;occ; 85; 0;28483
23; 5294.6; 11-AUG-2007 23:10:37; Dark ; 40.0; 47; 2Bet CMA ; 1.98; 28000;occ; 80; 0;28483
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6; 989.1; 11-AUG-2007 23:39:27; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;28484
7; 1170.7; 11-AUG-2007 23:42:29; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;28484
8; 2059.4; 11-AUG-2007 23:57:18; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;28484
9; 2519.0; 12-AUG-2007 00:04:57; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;28484
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13; 3439.1; 12-AUG-2007 00:20:17; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28484
14; 4220.4; 12-AUG-2007 00:33:19; Bright; 55.0; 42; 34Bet Aur ; 1.90; 10200;occ; 110; 0;28484
15; 4362.0; 12-AUG-2007 00:35:40; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;28484
16; 4612.5; 12-AUG-2007 00:39:51; Dark ; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;28484
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18; 4906.0; 12-AUG-2007 00:44:44; Dark ; 57.0; 14; 58Alp Ori ; 0.87; 3000;occ; 114; 0;28484
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22; 5374.4; 12-AUG-2007 00:52:33; Dark ; 43.0; 101; 11Alp Lep ; 2.58; 7000;occ; 86; 0;28484
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6; -871.2; 11-AUG-2007 06:22:28; Dark ; 33.0; 125; 44Iot Ori ; 2.77; 30000;occ; 66; 0;28473
7; -788.3; 11-AUG-2007 06:23:51; Dark ; 45.0; 1; 9Alp CMA ; -1.44; 11000;occ; 90; 0;28473
8; -667.6; 11-AUG-2007 06:25:51; Dark ; 44.0; 101; 11Alp Lep ; 2.58; 7000;occ; 88; 0;28473
9; -546.3; 11-AUG-2007 06:27:53; Dark ; 38.5; 177; 1Zet CMA ; 3.02; 26000;occ; 77; 0;28473
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11; 404.0; 11-AUG-2007 06:43:43; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28474
12; 774.7; 11-AUG-2007 06:49:54; Dark ; 38.5; 148; Alp Tuc ; 2.88; 4100;occ; 77; 0;28474
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3; 2590.0; 11-AUG-2007 07:20:09; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;28474
4; 2676.7; 11-AUG-2007 07:21:36; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;28474
5; 3439.2; 11-AUG-2007 07:34:18; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28474
6; 4220.3; 11-AUG-2007 07:47:19; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;28474
7; 4361.4; 11-AUG-2007 07:49:40; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;28474
8; 4610.8; 11-AUG-2007 07:53:50; Dark ; 44.0; 151; 13Mu Gem ; 2.89; 3000;occ; 88; 0;28474

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 5; 3439.3; 11-AUG-2007 09:14:54; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28475
 6; 4220.2; 11-AUG-2007 09:27:55; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;28475
 7; 4361.4; 11-AUG-2007 09:30:16; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;28475
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 10; 5087.9; 11-AUG-2007 09:42:23; Dark ; 44.5; 33; 50Zet Ori ; 1.77; 30000;occ; 89; 0;28475
 11; 5248.2; 11-AUG-2007 09:45:03; Dark ; 42.0; 1; 9Alp CMA ; -1.44; 11000;occ; 84; 0;28475
 12; 5369.5; 11-AUG-2007 09:47:04; Dark ; 40.0; 101; 11Alp Lep ; 2.58; 7000;occ; 80; 0;28475
 13; 5490.2; 11-AUG-2007 09:49:05; Dark ; 36.0; 177; 1Zet CMA ; 3.02; 26000;occ; 72; 0;28475
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 3; 2590.4; 11-AUG-2007 10:41:21; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;28476
 4; 2676.5; 11-AUG-2007 10:42:47; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;28476
 5; 3439.3; 11-AUG-2007 10:55:30; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28476
 6; 4220.1; 11-AUG-2007 11:08:31; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;28476
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 10; 5088.4; 11-AUG-2007 11:22:59; Dark ; 39.0; 33; 50Zet Ori ; 1.77; 30000;occ; 78; 0;28476
 11; 5248.5; 11-AUG-2007 11:25:39; Dark ; 46.0; 1; 9Alp CMA ; -1.44; 11000;occ; 92; 0;28476
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 13; 5490.8; 11-AUG-2007 13:10:18; Dark ; 37.5; 177; 1Zet CMA ; 3.02; 26000;occ; 75; 0;28477
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 3; 2590.9; 11-AUG-2007 14:02:33; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;28478
 4; 2676.6; 11-AUG-2007 14:03:59; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;28478


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3; 987.6; 11-AUG-2007 16:57:02; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;28480
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7; 3439.3; 11-AUG-2007 17:37:54; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28480
8; 4220.2; 11-AUG-2007 17:50:55; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;28480
9; 4361.8; 11-AUG-2007 17:53:16; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;28480
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 7; 4434.0; 23-AUG-2007 09:54:28; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;28647
 8; 4583.8; 23-AUG-2007 09:56:58; Bright; 40.0; 170; 27Eps Gem ; 3.00; 9700;occ; 80; 0;28647
 9; 5306.4; 23-AUG-2007 10:09:00; Dark ; 46.0; 1; 9Alp CMA ; -1.44; 11000;occ; 92; 0;28647
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 12; 5563.7; 23-AUG-2007 16:55:41; Dark ; 39.5; 177; 1Zet CMa ; 3.02; 26000;occ; 79; 0;28651
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3; 1896.1; 31-AUG-2007 11:41:37; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28763
4; 2076.4; 31-AUG-2007 11:44:37; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28763
5; 2486.9; 31-AUG-2007 11:51:28; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;28763
6; 2677.7; 31-AUG-2007 11:54:39; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28763
7; 2977.2; 31-AUG-2007 11:59:38; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28763
8; 3434.9; 31-AUG-2007 12:07:16; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28763
9; 4450.5; 31-AUG-2007 12:24:11; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28763
10; 4608.7; 31-AUG-2007 12:26:50; Dark ; 51.5; 170; 27Eps Gem ; 3.00; 9700;occ; 103; 0;28763
11; 4787.2; 31-AUG-2007 12:29:48; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;28763
12; 4910.4; 31-AUG-2007 12:31:51; Dark ; 44.5; 8; 10Alp CMi ; 0.40; 6500;occ; 89; 0;28763
13; 5365.8; 31-AUG-2007 12:39:27; Dark ; 47.5; 1; 9Alp CMa ; -1.44; 11000;occ; 95; 0;28763
14; 5532.8; 31-AUG-2007 12:42:14; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28763
15; 5631.1; 31-AUG-2007 12:43:52; Dark ; 40.5; 177; 1Zet CMa ; 3.02; 26000;occ; 81; 0;28763
16; 5726.6; 31-AUG-2007 12:45:27; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28763
17; 6555.8; 31-AUG-2007 12:59:17; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28763
18; 6632.0; 31-AUG-2007 13:00:33; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;28763
19; 6989.7; 31-AUG-2007 13:06:31; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;28763
20; 7082.6; 31-AUG-2007 13:08:03; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;28763
21; 7361.8; 31-AUG-2007 13:12:43; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;28763

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3; 1896.0; 31-AUG-2007 13:22:13; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28764
4; 2076.3; 31-AUG-2007 13:25:13; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28764
5; 2487.0; 31-AUG-2007 13:32:04; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28764
6; 2677.7; 31-AUG-2007 13:35:14; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;28764
7; 2977.2; 31-AUG-2007 13:40:14; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28764
8; 3434.9; 31-AUG-2007 13:47:52; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28764
9; 4450.8; 31-AUG-2007 14:04:48; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;28764
10; 4609.1; 31-AUG-2007 14:07:26; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28764
11; 4787.5; 31-AUG-2007 14:10:24; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;28764
12; 4910.8; 31-AUG-2007 14:12:28; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;28764
13; 5366.5; 31-AUG-2007 14:20:03; Dark ; 49.0; 1; 9Alp CMa ; -1.44; 11000;occ; 98; 0;28764
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17; 6556.6; 31-AUG-2007 14:39:53; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28764
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19; 6990.5; 31-AUG-2007 14:47:07; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;28764
20; 7083.0; 31-AUG-2007 14:48:40; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;28764
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2; 1806.7; 31-AUG-2007 15:01:19; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28765
3; 1896.1; 31-AUG-2007 15:02:49; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28765
4; 2076.3; 31-AUG-2007 15:05:49; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28765
5; 2487.1; 31-AUG-2007 15:12:40; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28765

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9; 4451.0; 31-AUG-2007 15:45:24; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28765
10; 4609.4; 31-AUG-2007 15:48:02; Dark ; 48.0; 170; 27Eps Gem ; 3.00; 9700;occ; 96; 0;28765
11; 4787.9; 31-AUG-2007 15:51:01; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;28765
12; 4911.2; 31-AUG-2007 15:53:04; Dark ; 47.5; 8; 10Alp CMi ; 0.40; 6500;occ; 95; 0;28765
13; 5367.2; 31-AUG-2007 16:00:40; Dark ; 54.5; 1; 9Alp CMa ; -1.44; 11000;occ; 109; 0;28765
14; 5534.0; 31-AUG-2007 16:03:27; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;28765
15; 5632.6; 31-AUG-2007 16:05:05; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28765
16; 5728.0; 31-AUG-2007 16:06:41; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28765
17; 6557.2; 31-AUG-2007 16:20:30; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28765
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19; 6991.2; 31-AUG-2007 16:27:44; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;28765
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3; 1806.7; 31-AUG-2007 16:41:55; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28766
4; 1896.0; 31-AUG-2007 16:43:25; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28766
5; 2076.2; 31-AUG-2007 16:46:25; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28766
6; 2487.1; 31-AUG-2007 16:53:16; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;28766
7; 2677.9; 31-AUG-2007 16:56:27; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28766
8; 2976.9; 31-AUG-2007 17:01:26; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28766
9; 3434.9; 31-AUG-2007 17:09:04; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;28766
10; 4451.1; 31-AUG-2007 17:26:00; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;28766
11; 4609.6; 31-AUG-2007 17:28:38; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28766
12; 4788.3; 31-AUG-2007 17:31:37; Dark ; 52.5; 44; 24Gam Gem ; 1.93; 11000;occ; 105; 0;28766
13; 4911.4; 31-AUG-2007 17:33:40; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 0;28766
14; 5367.8; 31-AUG-2007 17:41:16; Dark ; 58.0; 1; 9Alp CMa ; -1.44; 11000;occ; 116; 0;28766
15; 5534.5; 31-AUG-2007 17:44:03; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;28766
16; 5633.3; 31-AUG-2007 17:45:42; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28766
17; 5728.6; 31-AUG-2007 17:47:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28766
18; 6557.8; 31-AUG-2007 18:01:06; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28766
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5; 1806.7; 31-AUG-2007 18:22:31; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28767
6; 1896.0; 31-AUG-2007 18:24:01; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28767
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12; 4451.2; 31-AUG-2007 19:06:36; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28767
13; 4609.9; 31-AUG-2007 19:09:15; Dark ; 49.0; 170; 27Eps Gem ; 3.00; 9700;occ; 98; 0;28767
14; 4788.5; 31-AUG-2007 19:12:13; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28767
15; 4911.7; 31-AUG-2007 19:14:16; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;28767
16; 5368.3; 31-AUG-2007 19:21:53; Dark ; 54.0; 1; 9Alp CMa ; -1.44; 11000;occ; 108; 0;28767
17; 5534.9; 31-AUG-2007 19:24:40; Dark ; 43.5; 23; 21Eps CMa ; 1.50; 26000;occ; 87; 0;28767
18; 5633.9; 31-AUG-2007 19:26:19; Dark ; 42.0; 177; 1Zet CMa ; 3.02; 26000;occ; 84; 0;28767
19; 5729.2; 31-AUG-2007 19:27:54; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28767
20; 6558.1; 31-AUG-2007 19:41:43; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28767
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22; 6992.3; 31-AUG-2007 19:48:57; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;28767

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