

GOMOS Daily Report 01-AUG-2007

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	03AUG2007 05:38:29
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (01AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (02AUG2007 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)

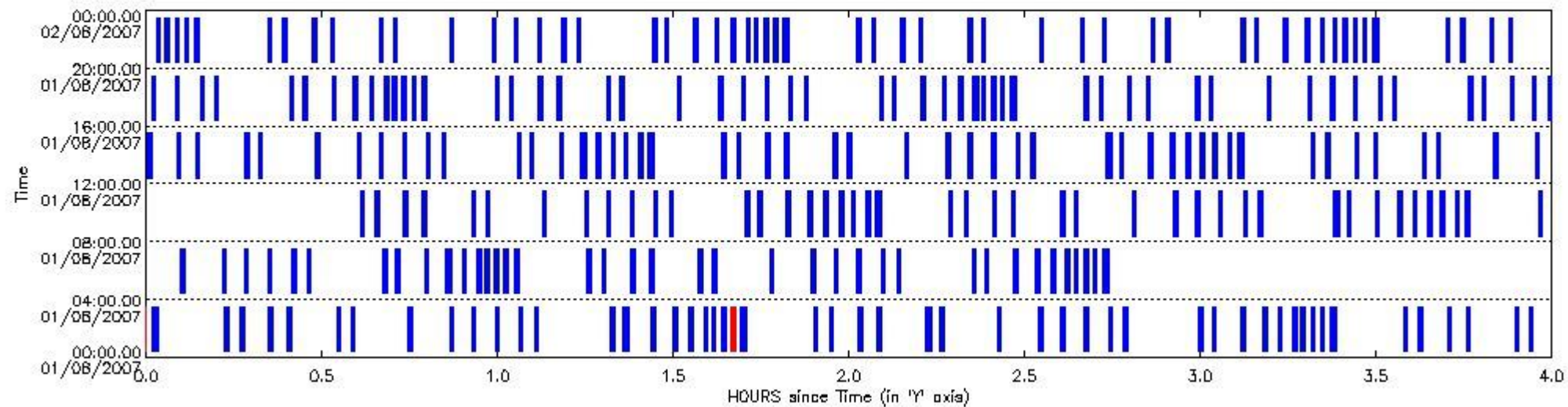
2.1 Level 0 products arrived in PCF (see template [here](#))

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
01-AUG-2007 00:00:46	DSA1059	0	28326
01-AUG-2007 00:13:16	AlpHyi	143	28327
01-AUG-2007 00:15:53	BetHyi	135	28327
01-AUG-2007 00:20:44	AlpTuc	148	28327
01-AUG-2007 00:23:59	AlpPav	45	28327
01-AUG-2007 00:32:21	38ZetSgr	103	28327
01-AUG-2007 00:34:44	41PiSgr	155	28327
01-AUG-2007 00:44:34	17ZetAql	168	28327
01-AUG-2007 00:51:39	3AlpLyr	5	28327
01-AUG-2007 00:55:25	33GamDra	69	28327
01-AUG-2007 00:59:24	14EtaDra	119	28327
01-AUG-2007 01:03:34	7BetUMi	60	28327
01-AUG-2007 01:06:10	1AlpUMi	49	28327
01-AUG-2007 01:19:01	34BetAur	42	28327
01-AUG-2007 01:21:15	37TheAur	107	28327

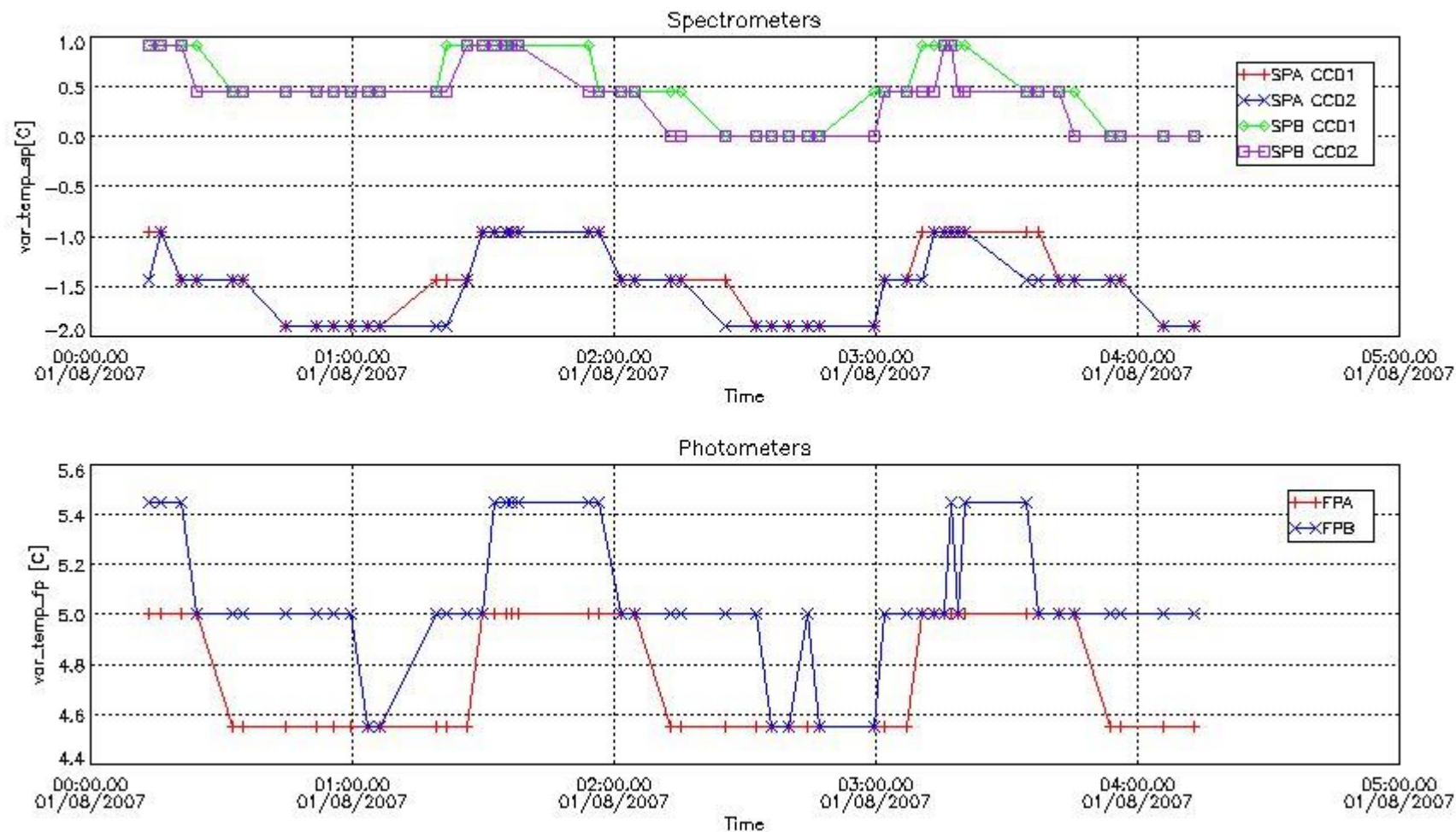
01-AUG-2007 01:26:07	23ZetTau	176	28327
01-AUG-2007 01:29:47	58AlpOri	14	28327
01-AUG-2007 01:32:32	46EpsOri	30	28327
01-AUG-2007 01:34:59	19BetOri	7	28327
01-AUG-2007 01:39:45	1ZetCMa	177	28327
01-AUG-2007 17:06:48	AlpTuc	148	28337
01-AUG-2007 17:10:01	AlpPav	45	28337

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_1PNPDE20070801_001324_000000392060_00217_28327_8989.N1	01-AUG-2007 00:13:24	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28327	No
2	GOM_TRA_1PNPDE20070801_001602_000000392060_00217_28327_8990.N1	01-AUG-2007 00:16:02	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	28327	No
3	GOM_TRA_1PNPDE20070801_002053_000000402060_00217_28327_8991.N1	01-AUG-2007 00:20:53	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	28327	No
4	GOM_TRA_1PNPDE20070801_002407_000000382060_00217_28327_8992.N1	01-AUG-2007 00:24:07	Straylight	37.500	45	Alp Pav	1.9400	26000.	75	28327	No
5	GOM_TRA_1PNPDE20070801_003230_000000412060_00217_28327_8993.N1	01-AUG-2007 00:32:30	Bright	41.000	103	38Zet Sgr	2.6000	9700.0	82	28327	No
6	GOM_TRA_1PNPDE20070801_003453_000000382060_00217_28327_8994.N1	01-AUG-2007 00:34:53	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28327	No
7	GOM_TRA_1PNPDE20070801_004442_000000352060_00217_28327_8995.N1	01-AUG-2007 00:44:42	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28327	No
8	GOM_TRA_1PNPDE20070801_005147_000000352060_00217_28327_8996.N1	01-AUG-2007 00:51:47	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	28327	No
9	GOM_TRA_1PNPDE20070801_005534_000000372060_00217_28327_8997.N1	01-AUG-2007 00:55:34	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	28327	No
10	GOM_TRA_1PNPDE20070801_005932_000000342060_00217_28327_8998.N1	01-AUG-2007 00:59:32	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	28327	No
11	GOM_TRA_1PNPDE20070801_010342_000000332060_00217_28327_8999.N1	01-AUG-2007 01:03:42	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	28327	No
12	GOM_TRA_1PNPDE20070801_010619_000000342060_00217_28327_9000.N1	01-AUG-2007 01:06:19	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28327	No
13	GOM_TRA_1PNPDE20070801_011910_000000532060_00217_28327_9001.N1	01-AUG-2007 01:19:10	Bright	53.000	42	34Bet Aur	1.9000	10200.	106	28327	No
14	GOM_TRA_1PNPDE20070801_012124_000000532060_00217_28327_9002.N1	01-AUG-2007 01:21:24	Bright	53.000	107	37The Aur	2.6490	11000.	106	28327	No
15	GOM_TRA_1PNPDE20070801_012616_000000402060_00217_28327_9003.N1	01-AUG-2007 01:26:16	Tw_i_and_stray	39.500	176	23Zet Tau	3.0200	22000.	79	28327	No
16	GOM_TRA_1PNPDE20070801_012955_000000492060_00217_28327_9004.N1	01-AUG-2007 01:29:55	Dark	49.000	14	58Alp Ori	0.87000	3000.0	98	28327	No
17	GOM_TRA_1PNPDE20070801_013240_000000402060_00217_28327_9005.N1	01-AUG-2007 01:32:40	Dark	39.500	30	46Eps Ori	1.6940	30000.	79	28327	No
18	GOM_TRA_1PNPDE20070801_013508_000000472060_00217_28327_9006.N1	01-AUG-2007 01:35:08	Dark	46.500	7	19Bet Ori	0.10000	14000.	93	28327	No
19	GOM_TRA_1PNPDE20070801_013632_000000402060_00217_28327_9137.N1	01-AUG-2007 01:36:32	Dark	39.500	47	2Bet CMa	1.9760	28000.	79	28327	No
20	GOM_TRA_1PNPDE20070801_013813_000000422060_00217_28327_9138.N1	01-AUG-2007 01:38:13	Dark	42.000	139	9Bet Lep	2.8330	5600.0	84	28327	No
21	GOM_TRA_1PNPDE20070801_015401_000000392060_00218_28328_9139.N1	01-AUG-2007 01:54:01	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28328	No
22	GOM_TRA_1PNPDE20070801_015638_000000372060_00218_28328_9140.N1	01-AUG-2007 01:56:38	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28328	No
23	GOM_TRA_1PNPDE20070801_020129_000000432060_00218_28328_9141.N1	01-AUG-2007 02:01:29	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28328	No
24	GOM_TRA_1PNPDE20070801_020443_000000412060_00218_28328_9142.N1	01-AUG-2007 02:04:43	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	28328	No
25	GOM_TRA_1PNPDE20070801_021306_000000522060_00218_28328_9143.N1	01-AUG-2007 02:13:06	Bright	52.000	103	38Zet Sgr	2.6000	9700.0	104	28328	No
26	GOM_TRA_1PNPDE20070801_021529_000000382060_00218_28328_9144.N1	01-AUG-2007 02:15:29	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28328	No
27	GOM_TRA_1PNPDE20070801_022518_000000352060_00218_28328_9145.N1	01-AUG-2007 02:25:18	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28328	No
28	GOM_TRA_1PNPDE20070801_023223_000000372060_00218_28328_9146.N1	01-AUG-2007 02:32:23	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	28328	No
29	GOM_TRA_1PNPDE20070801_023610_000000362060_00218_28328_9147.N1	01-AUG-2007 02:36:10	Bright	35.500	69	33Gam Dra	2.2310	3800.0	71	28328	No
30	GOM_TRA_1PNPDE20070801_024009_000000372060_00218_28328_9148.N1	01-AUG-2007 02:40:09	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	28328	No
31	GOM_TRA_1PNPDE20070801_024418_000000332060_00218_28328_9149.N1	01-AUG-2007 02:44:18	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	28328	No
32	GOM_TRA_1PNPDE20070801_024655_000000342060_00218_28328_9150.N1	01-AUG-2007 02:46:55	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28328	No
33	GOM_TRA_1PNPDE20070801_025946_000000342060_00218_28328_9300.N1	01-AUG-2007 02:59:46	Bright	33.500	42	34Bet Aur	1.9000	10200.	67	28328	No
34	GOM_TRA_1PNPDE20070801_030200_000000362060_00218_28328_9301.N1	01-AUG-2007 03:02:00	Bright	35.500	107	37The Aur	2.6490	11000.	71	28328	No
35	GOM_TRA_1PNPDE20070801_030652_000000412060_00218_28328_9302.N1	01-AUG-2007 03:06:52	Tw_i_and_stray	40.500	176	23Zet Tau	3.0200	22000.	81	28328	No
36	GOM_TRA_1PNPDE20070801_031031_000000502060_00218_28328_9303.N1	01-AUG-2007 03:10:31	Dark	50.000	14	58Alp Ori	0.87000	3000.0	100	28328	No
37	GOM_TRA_1PNPDE20070801_031316_000000392060_00218_28328_9304.N1	01-AUG-2007 03:13:16	Dark	39.000	30	46Eps Ori	1.6940	30000.	78	28328	No
38	GOM_TRA_1PNPDE20070801_031544_000000442060_00218_28328_9305.N1	01-AUG-2007 03:15:44	Dark	43.500	7	19Bet Ori	0.10000	14000.	87	28328	No
39	GOM_TRA_1PNPDE20070801_031708_000000412060_00218_28328_9306.N1	01-AUG-2007 03:17:08	Dark	40.500	47	2Bet CMa	1.9760	28000.	81	28328	No
40	GOM_TRA_1PNPDE20070801_031849_000000422060_00218_28328_9307.N1	01-AUG-2007 03:18:49	Dark	41.500	139	9Bet Lep	2.8330	5600.0	83	28328	No
41	GOM_TRA_1PNPDE20070801_032029_000000362060_00218_28328_9308.N1	01-AUG-2007 03:20:29	Dark	36.000	177	1Zet CMa	3.0220	26000.	72	28328	No
42	GOM_TRA_1PNPDE20070801_033437_000000382060_00219_28329_9309.N1	01-AUG-2007 03:34:37	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	28329	No
43	GOM_TRA_1PNPDE20070801_033714_000000382060_00219_28329_9310.N1	01-AUG-2007 03:37:14	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	28329	No
44	GOM_TRA_1PNPDE20070801_034206_000000422060_00219_28329_9311.N1	01-AUG-2007 03:42:06	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	28329	No
45	GOM_TRA_1PNPDE20070801_034520_000000382060_00219_28329_9312.N1	01-AUG-2007 03:45:20	Straylight	38.000	45	Alp Pav	1.9400	26000.	76	28329	No
46	GOM_TRA_1PNPDE20070801_035342_000000422060_00219_28329_9313.N1	01-AUG-2007 03:53:42	Bright	42.000	103	38Zet Sgr	2.6000	9700.0	84	28329	No
47	GOM_TRA_1PNPDE20070801_035605_000000362060_00219_28329_9314.N1	01-AUG-2007 03:56:05	Bright	35.500	155	41Pi Sgr	2.9000	6600.0	71	28329	No

48	GOM_TRA_1PNPDE20070801_040554_000000362060_00219_28329_9315.N1	01-AUG-2007 04:05:54	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	28329	No
49	GOM_TRA_1PNPDE20070801_041259_000000382060_00219_28329_9316.N1	01-AUG-2007 04:12:59	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	28329	No

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



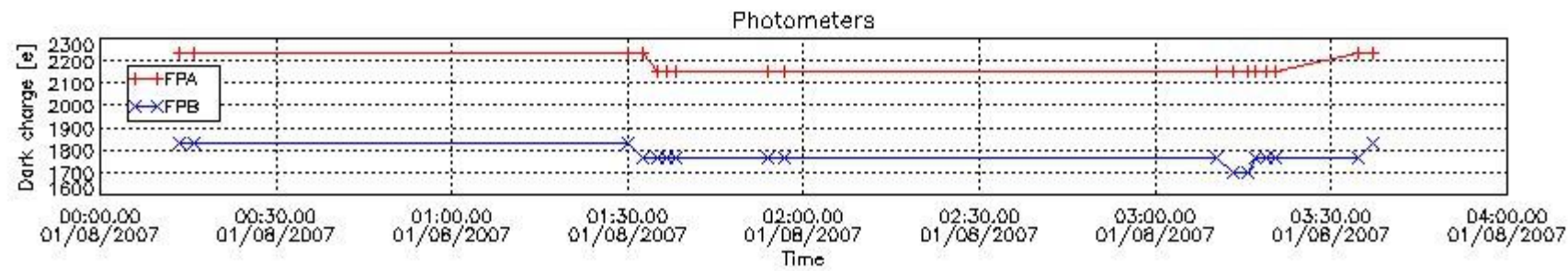
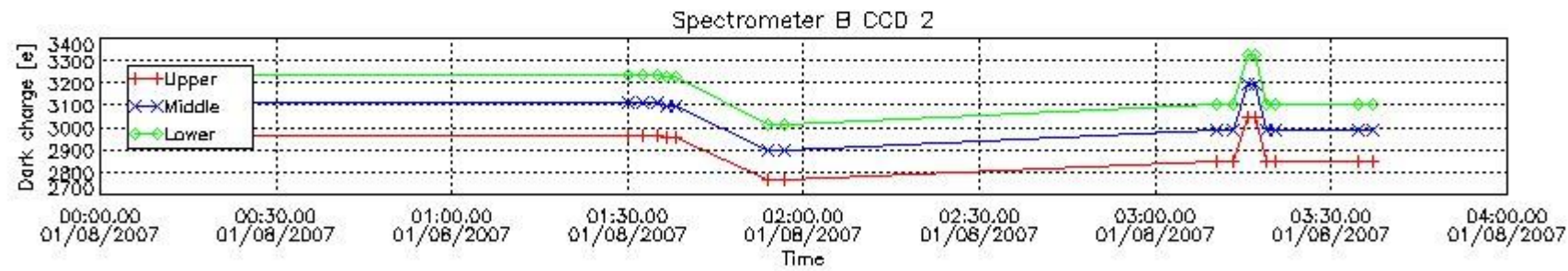
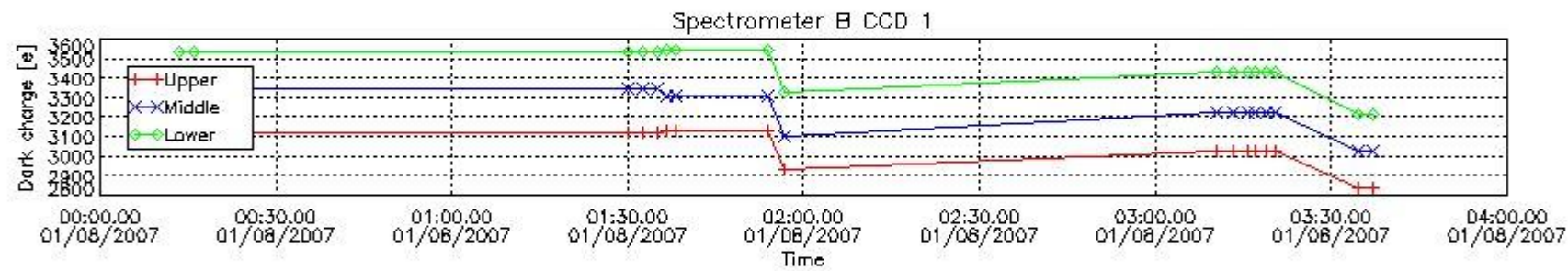
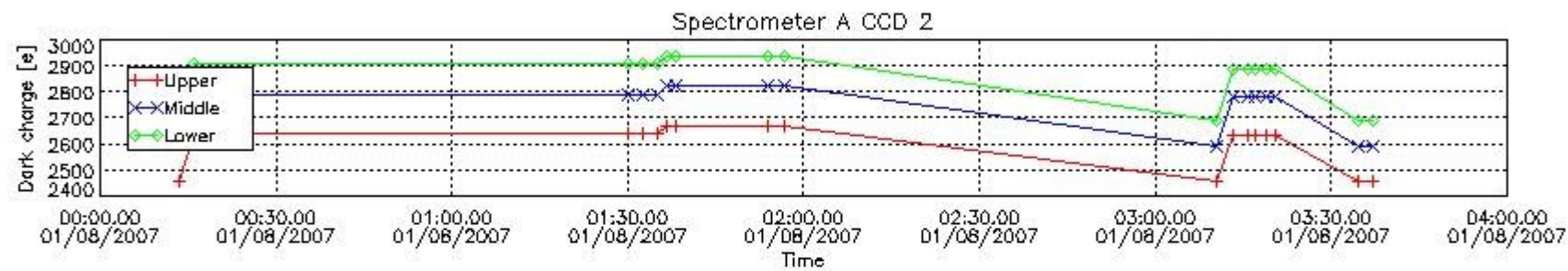
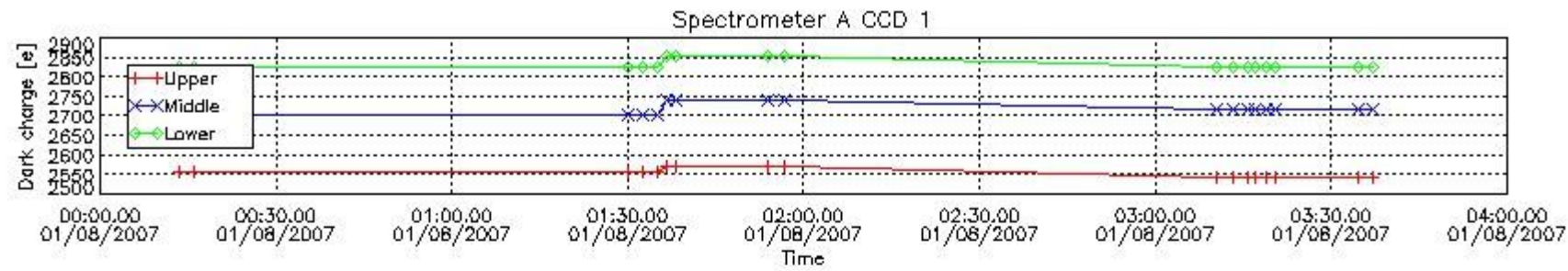
4. Overview of dark signal processing per product

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



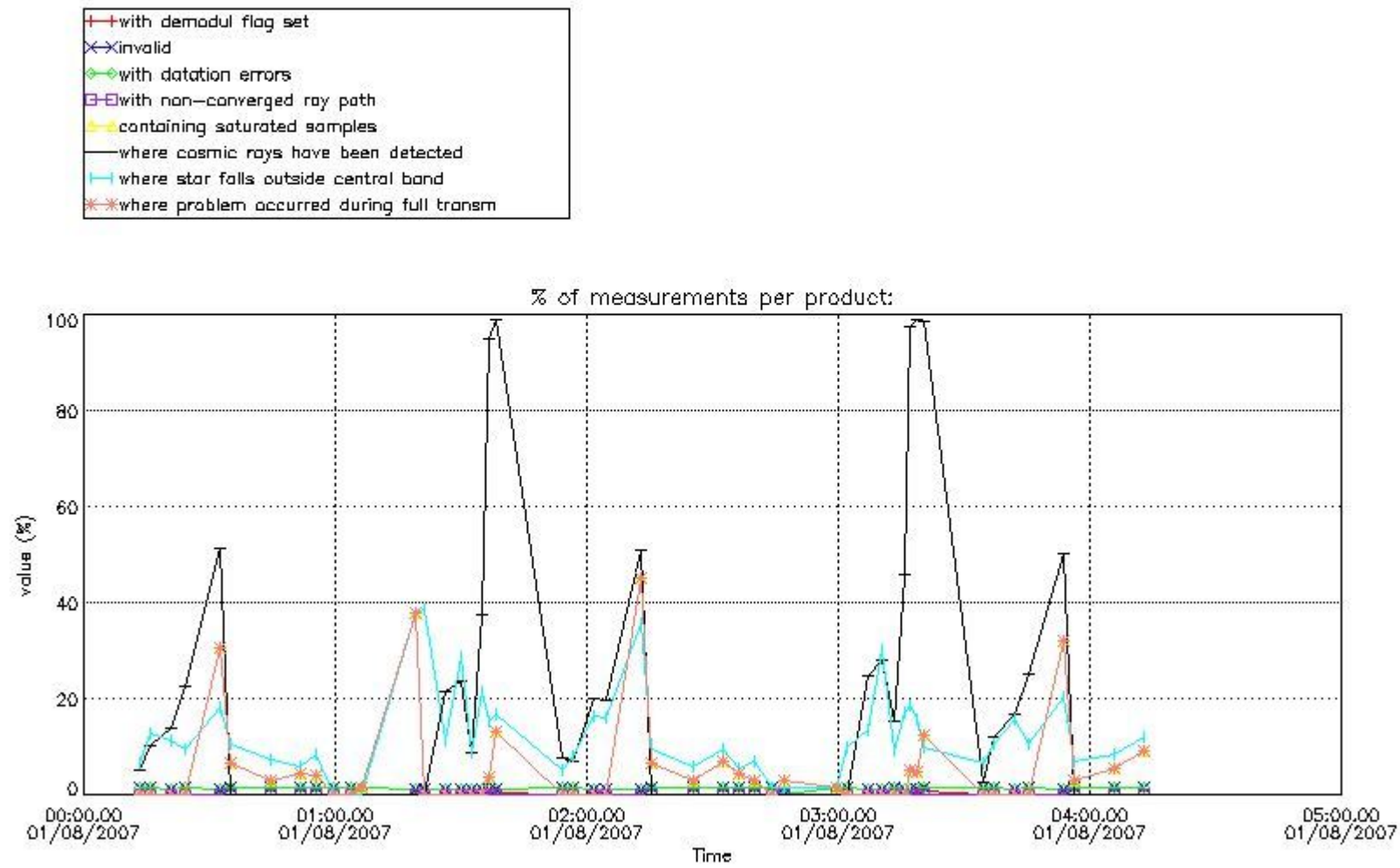
5. Demodulation flag and quality information monitoring

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.

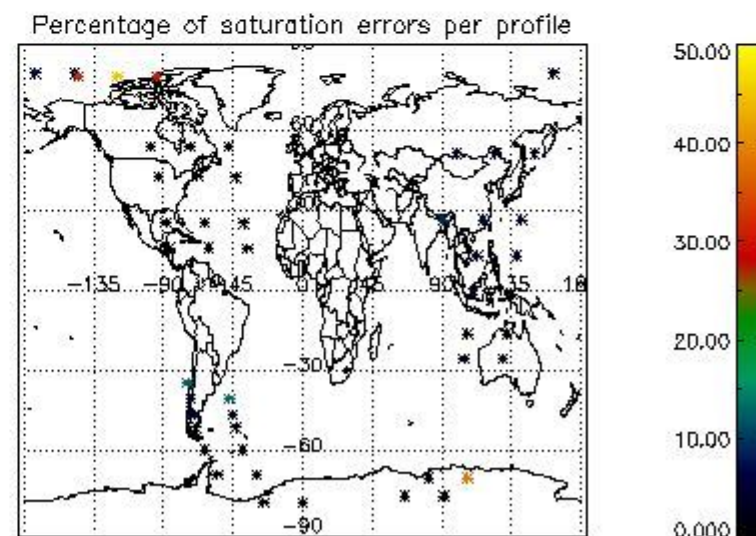
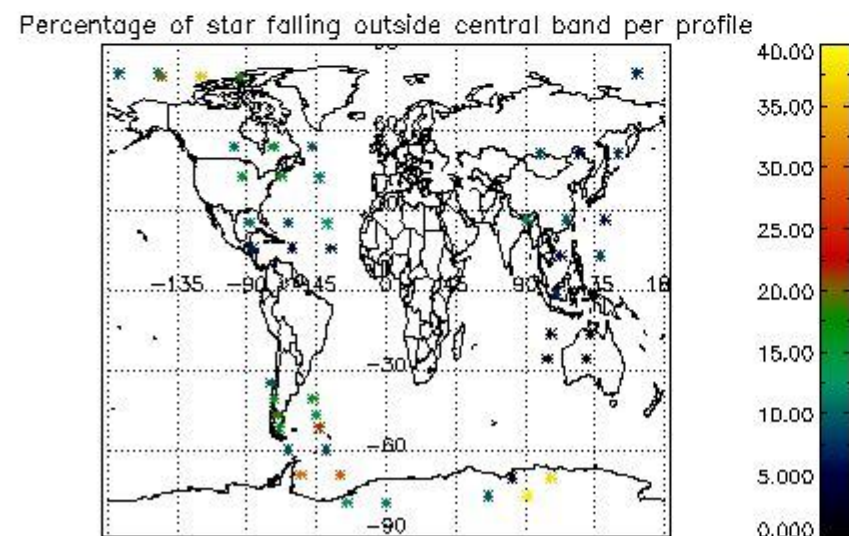
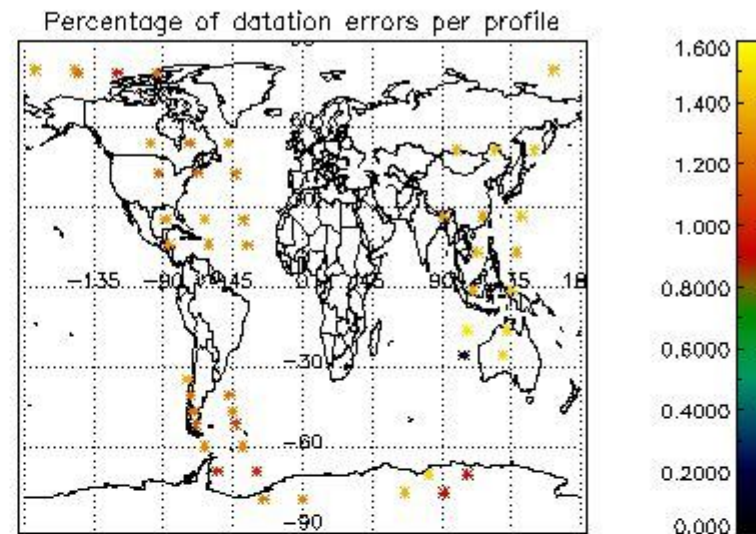
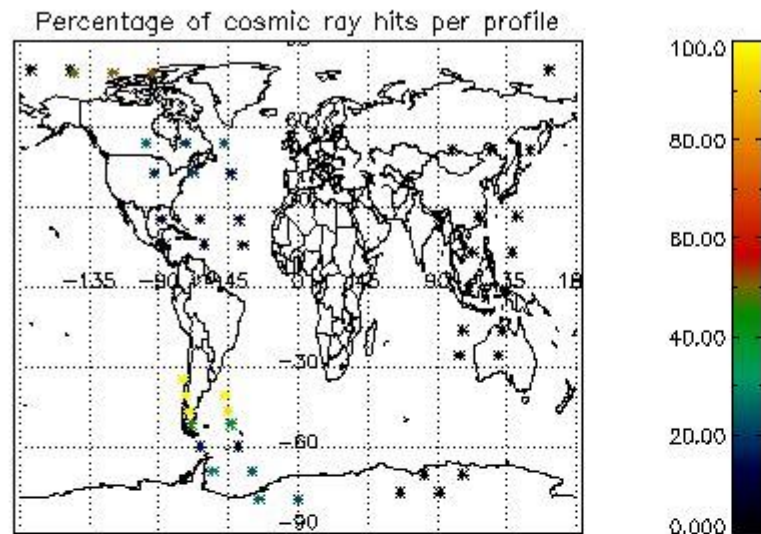
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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)



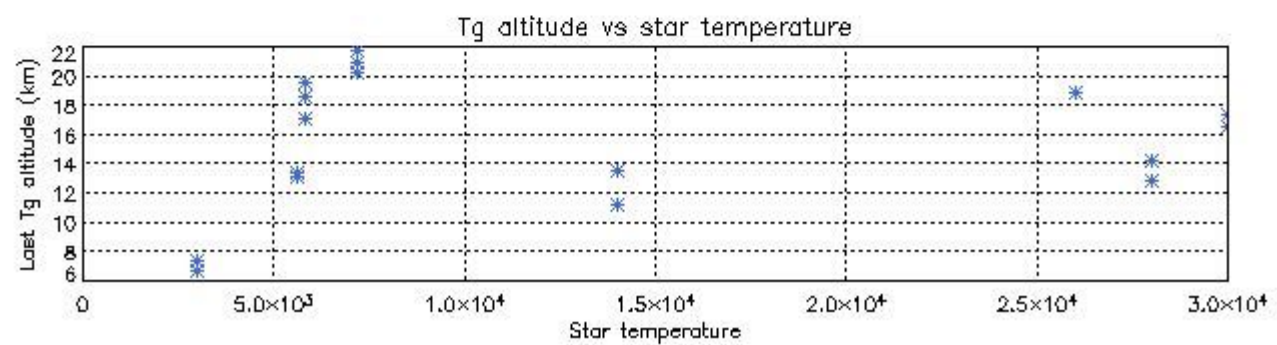
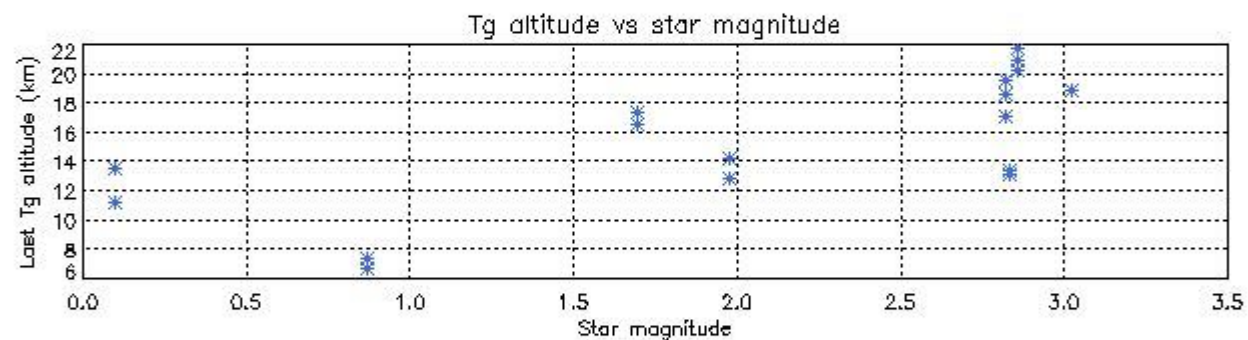
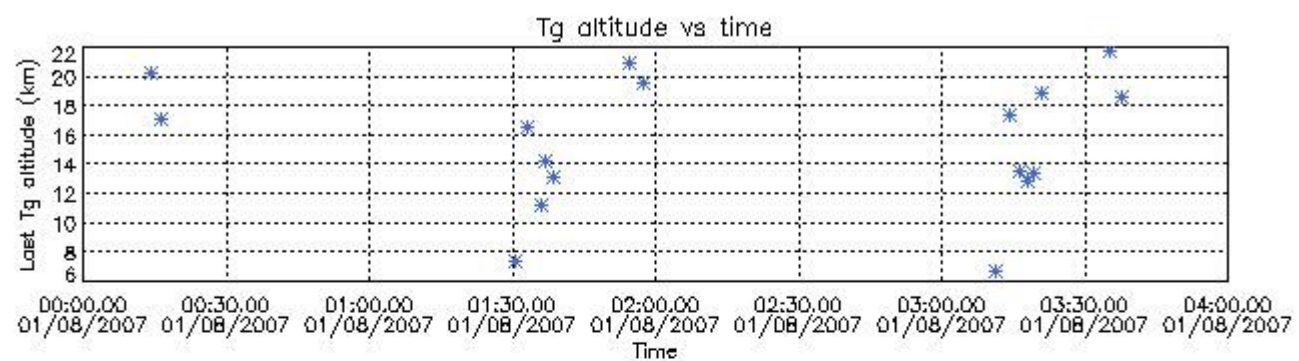
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.488	19.060	NaN
St. deviation:	4.4816	7.2433	NaN
Maximum:	21.788	28.953	NaN
Minimum:	6.6358	3.6955	NaN
Number of data:	17.000	24.000	NaN

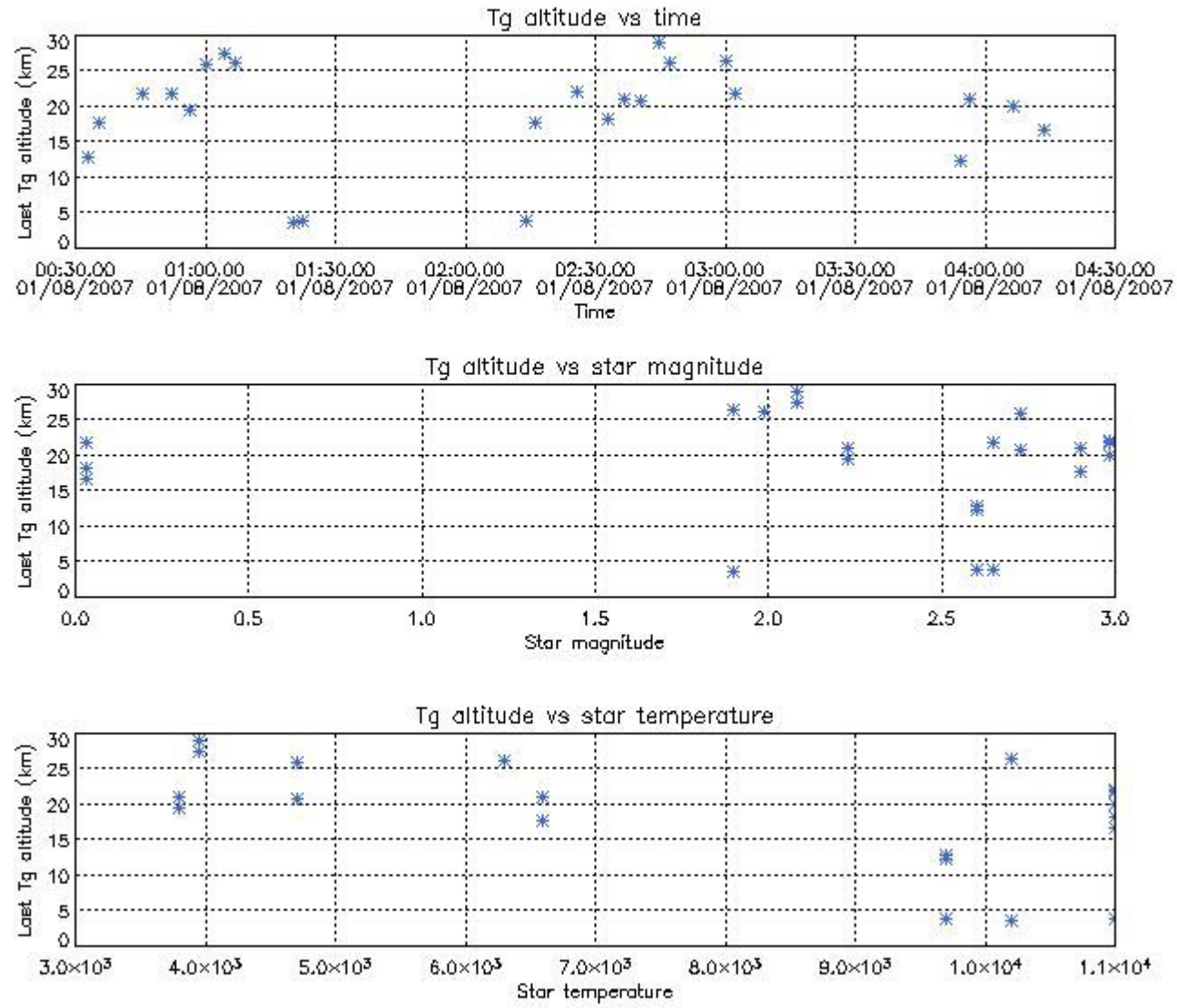
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

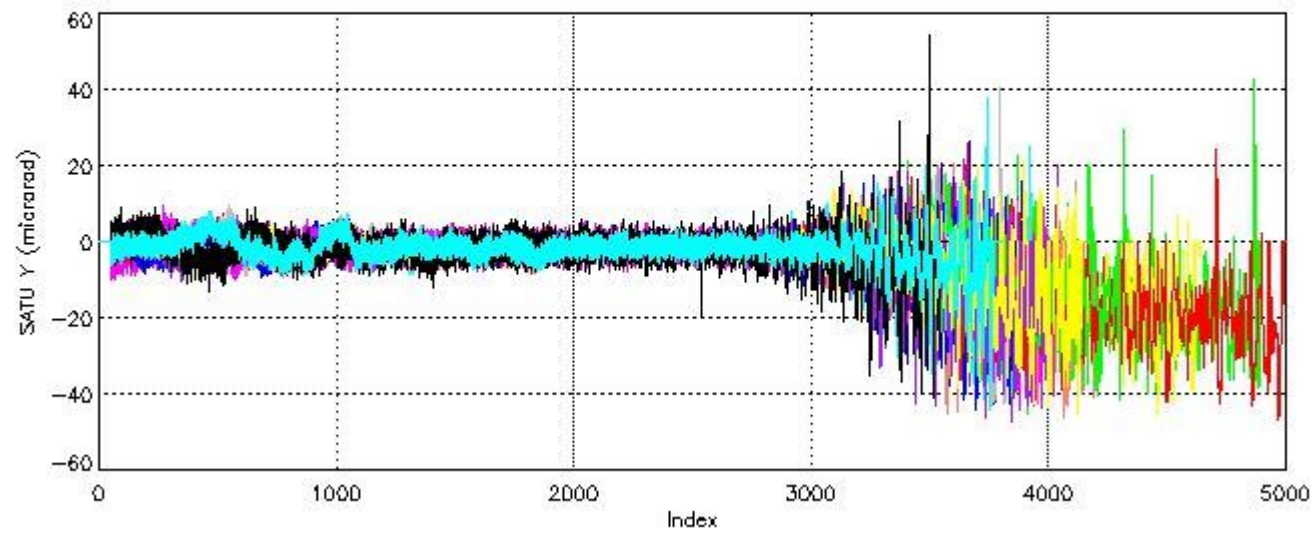
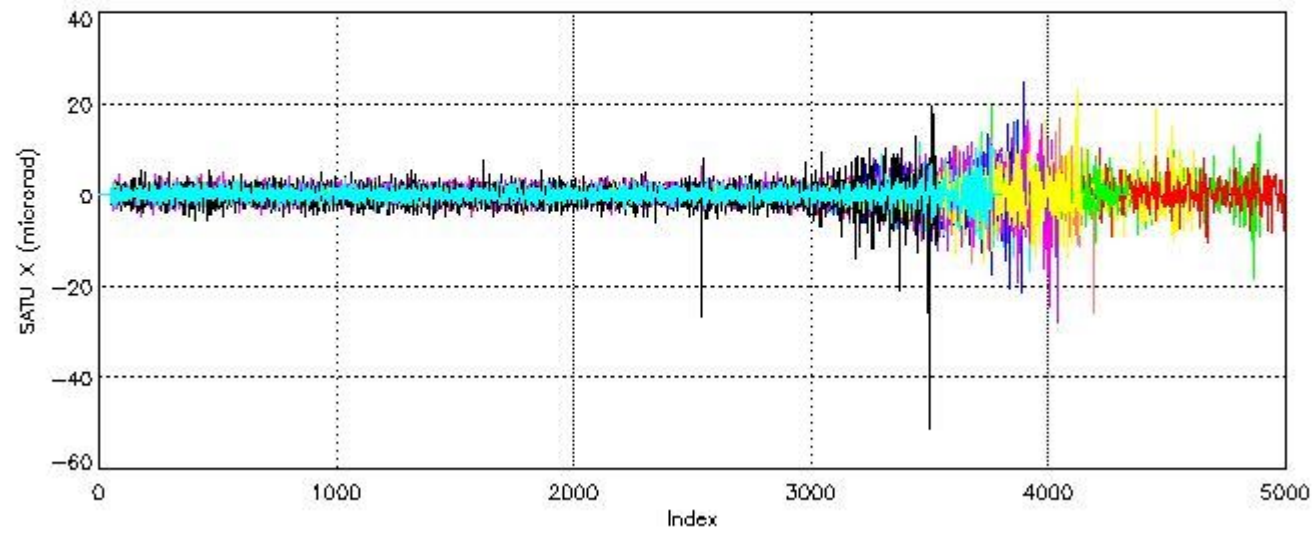


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.020502	-1.4744	0.014825	-1.1026
St. deviation:	0.70052	2.7888	0.82108	2.9736
Maximum:	5.5000	9.3000	6.0000	10.700
Minimum:	-5.6000	-12.900	-5.6000	-12.000

Number of data:	15050.	15050.	19700.	19700.
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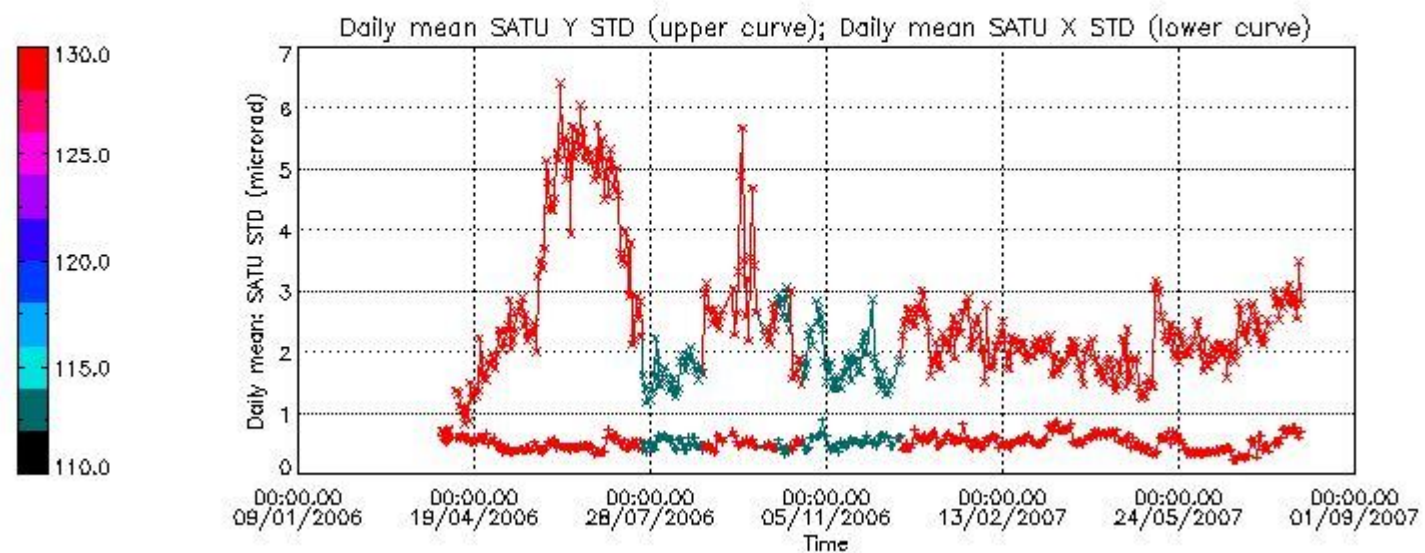
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

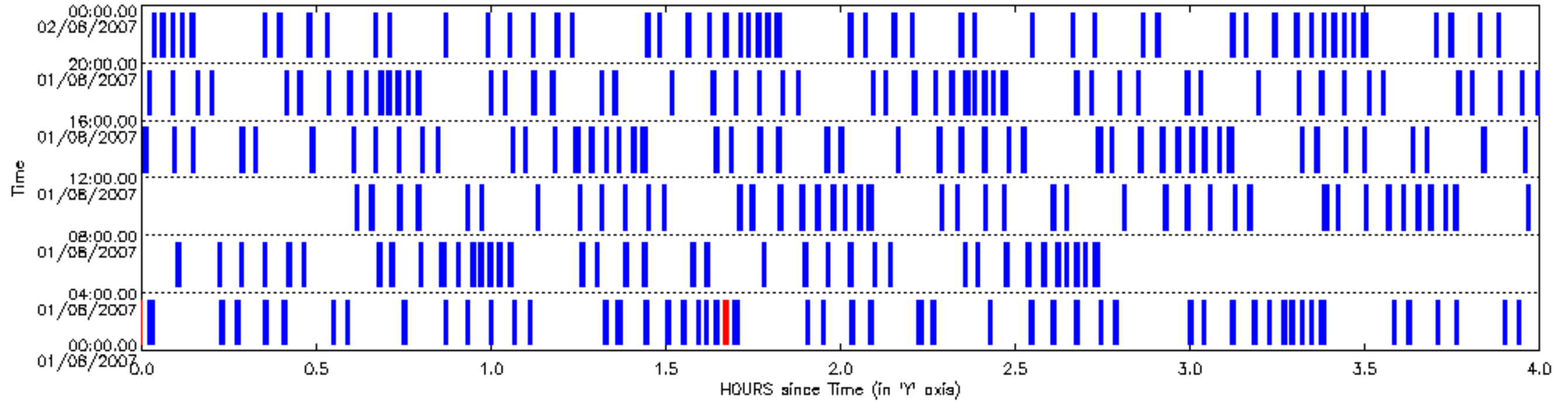
Lower curve: STD of SATU X axis

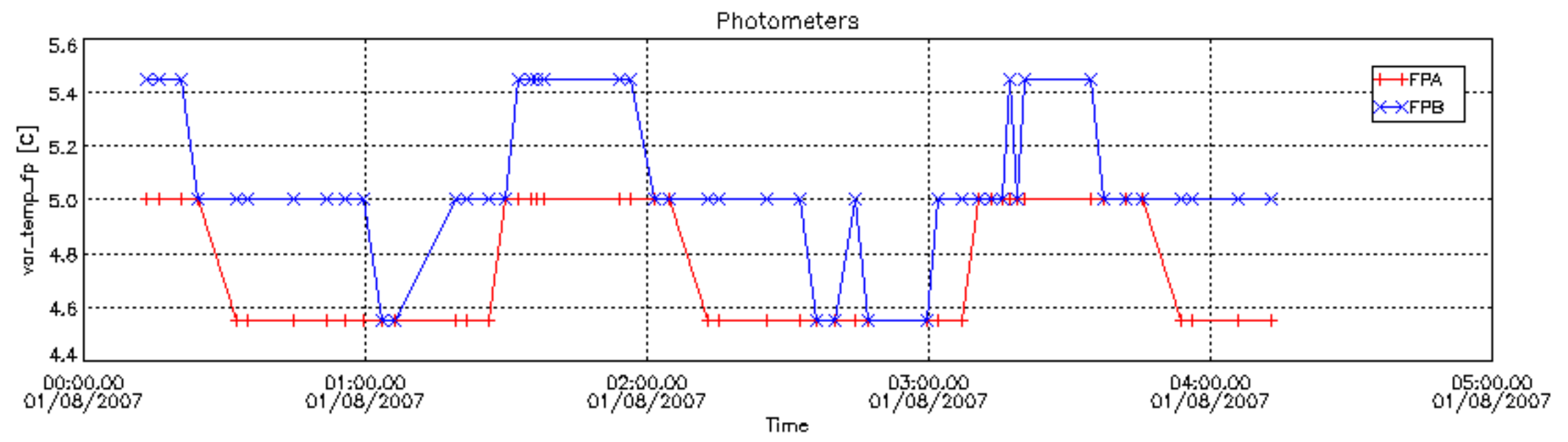
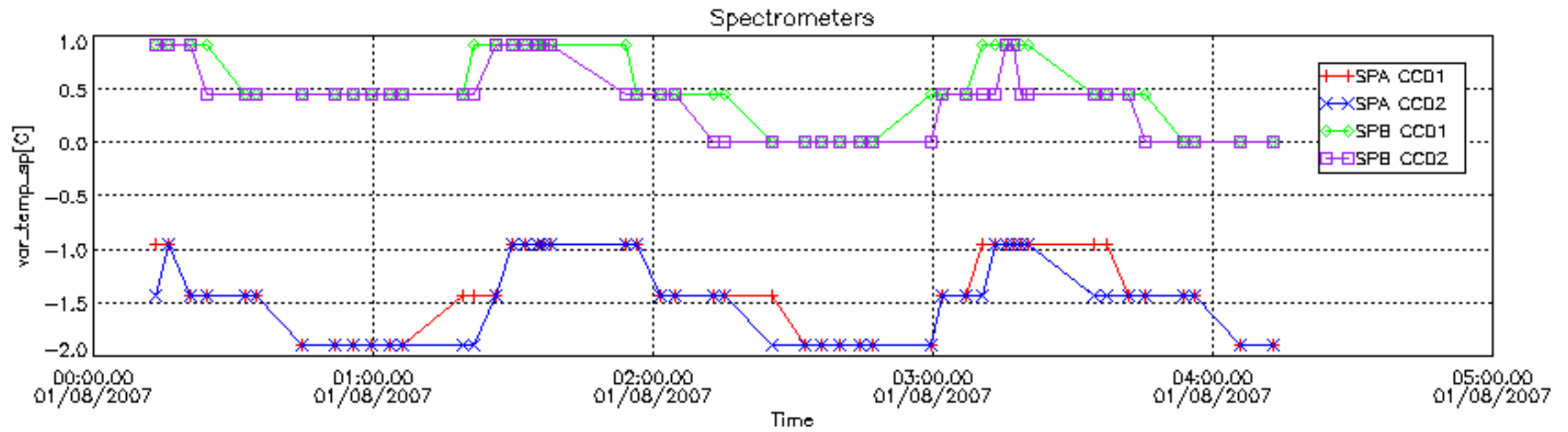


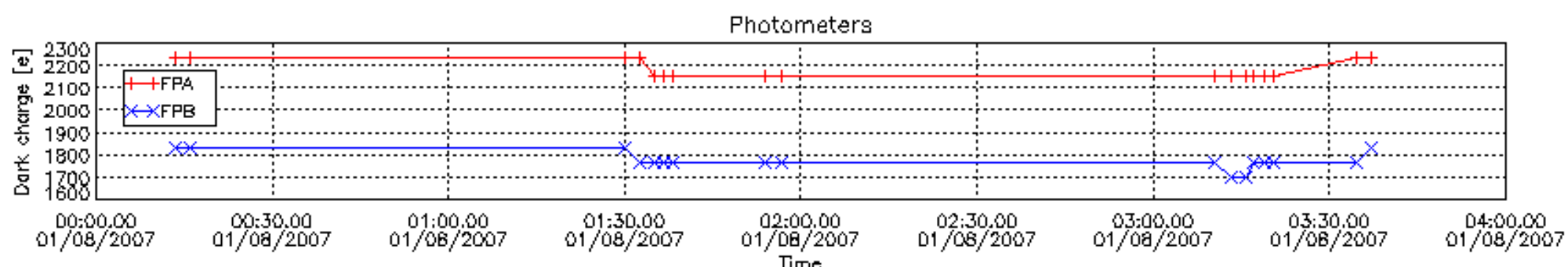
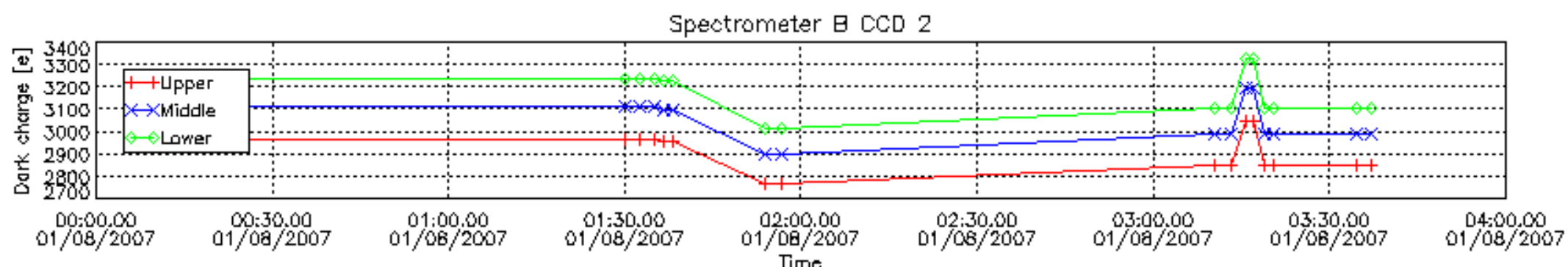
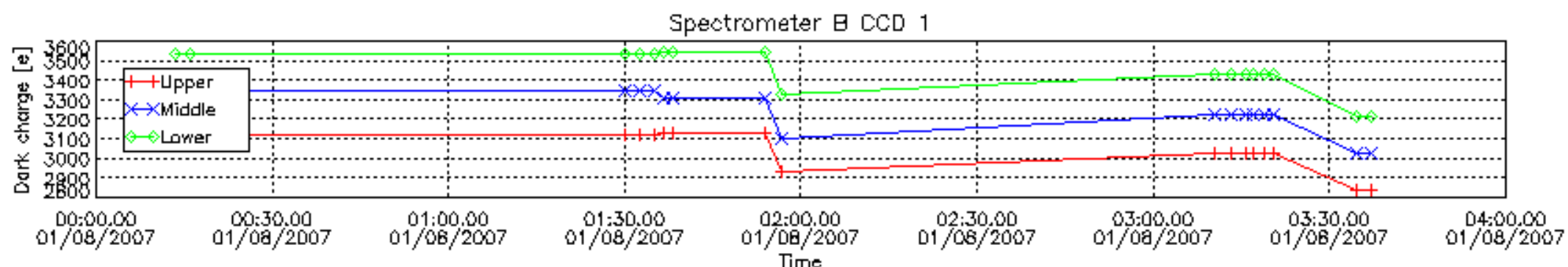
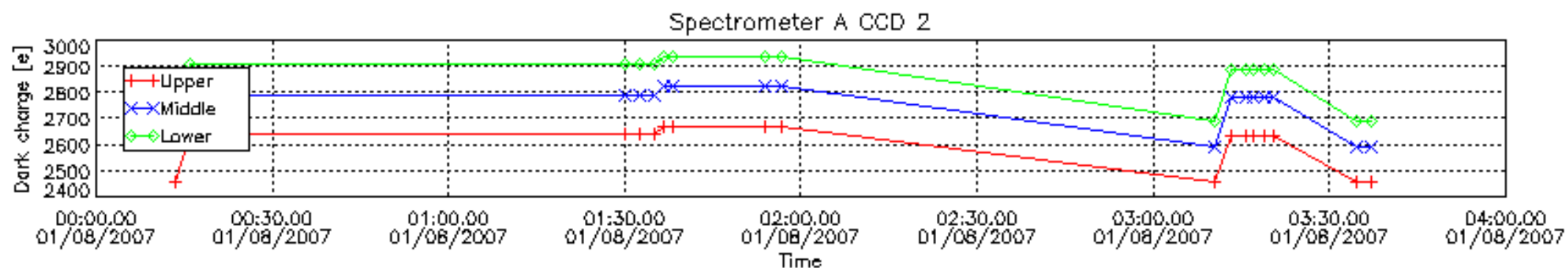
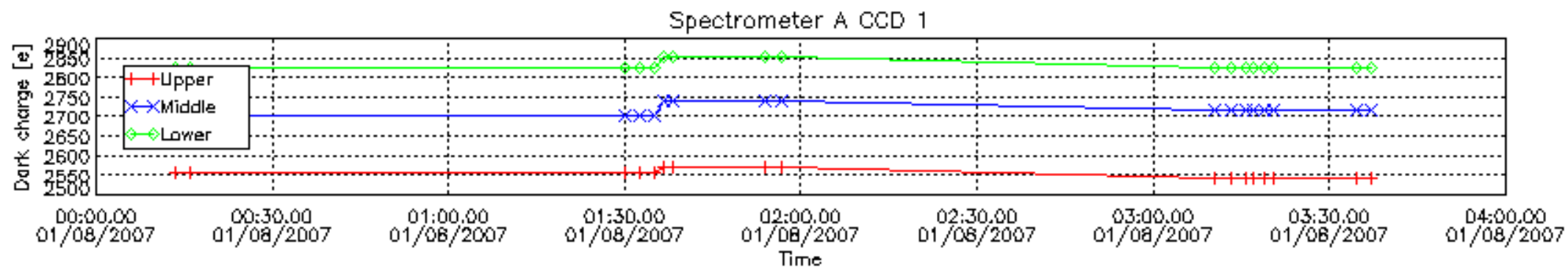
8. Auxiliary Data Files used for the production reported in section 2.4

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.

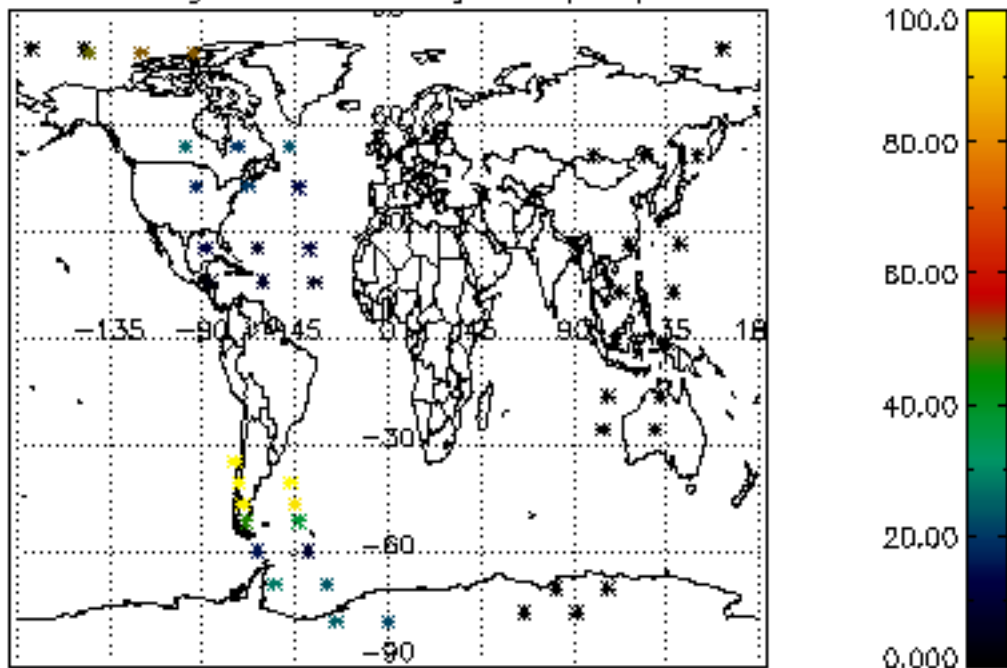
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-AUG-2007 00:13:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070726_133456_20070725_000000_20100101_000000	1	01-AUG-2007 00:13:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-AUG-2007 00:13:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-AUG-2007 00:13:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-AUG-2007 00:13:24
ECMWF_FILE	AUX_ECF_AXNECM20070731_062114_20070731_210000_20070801_090000	1	01-AUG-2007 00:13:24
OPTIONAL_ECMWF_FILE	MISSING	1	01-AUG-2007 00:13:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070731_221328_000057382060_00215_28325_3876.N1	1	01-AUG-2007 00:13:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070731_235425_000057382060_00216_28326_3877.N1	19	01-AUG-2007 01:36:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070801_013522_000038252060_00217_28327_3878.N1	33	01-AUG-2007 02:59:46



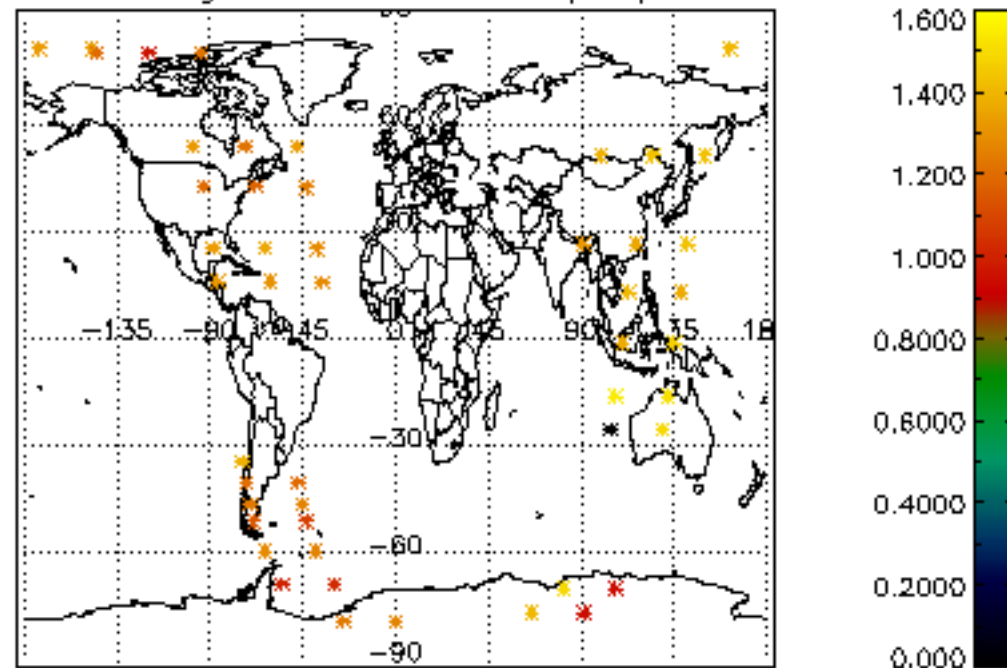




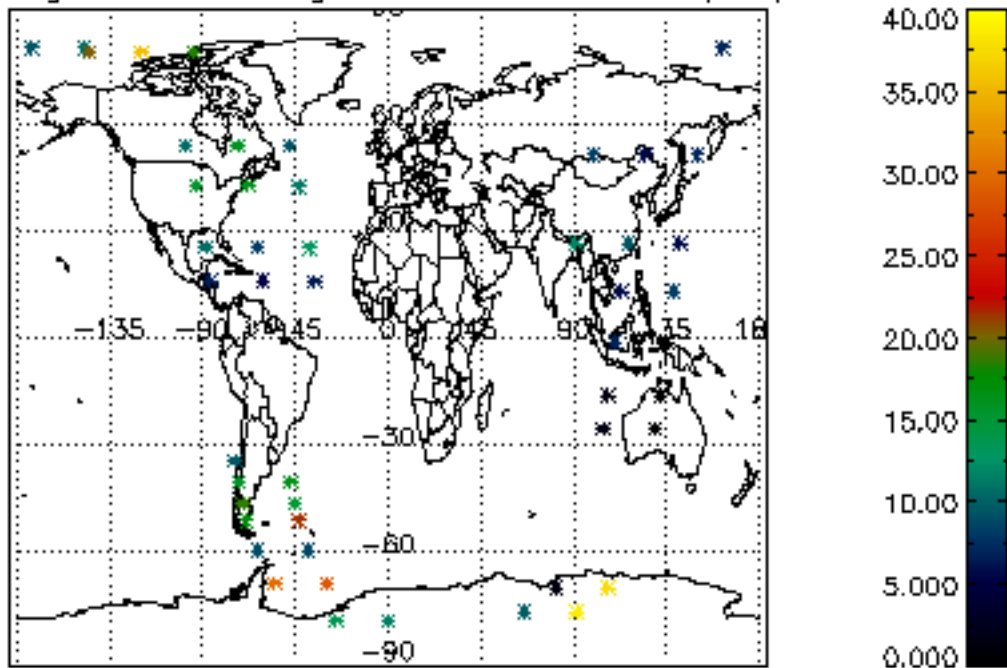
Percentage of cosmic ray hits per profile



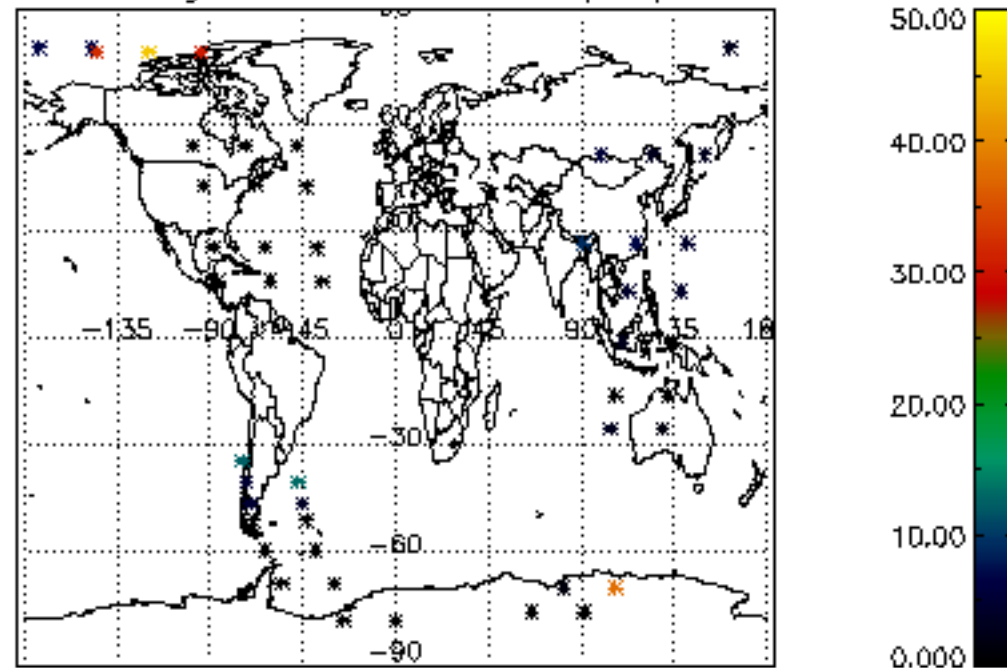
Percentage of datation errors per profile



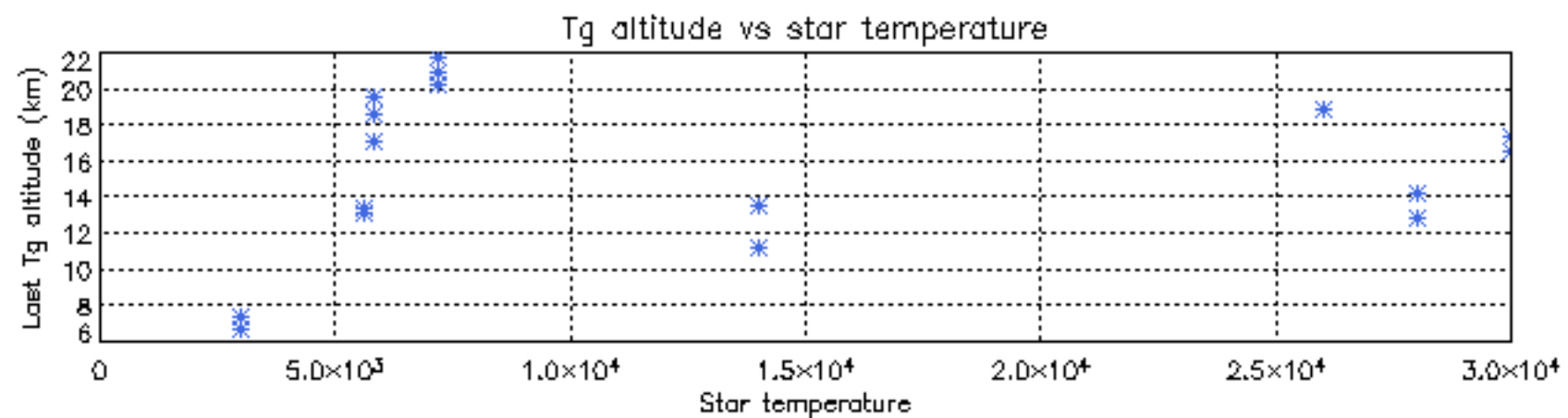
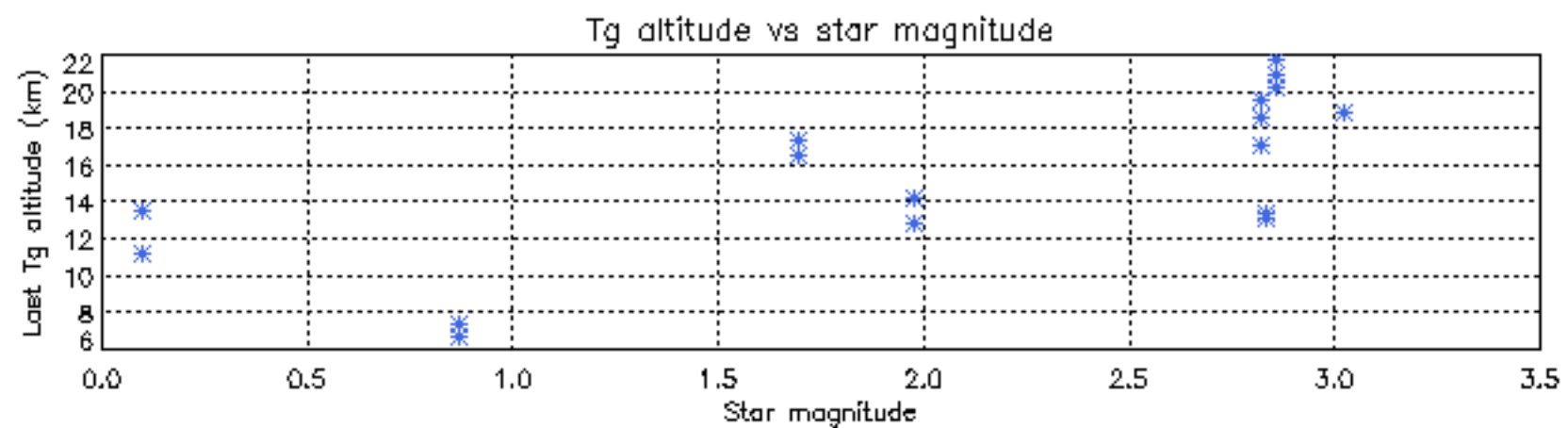
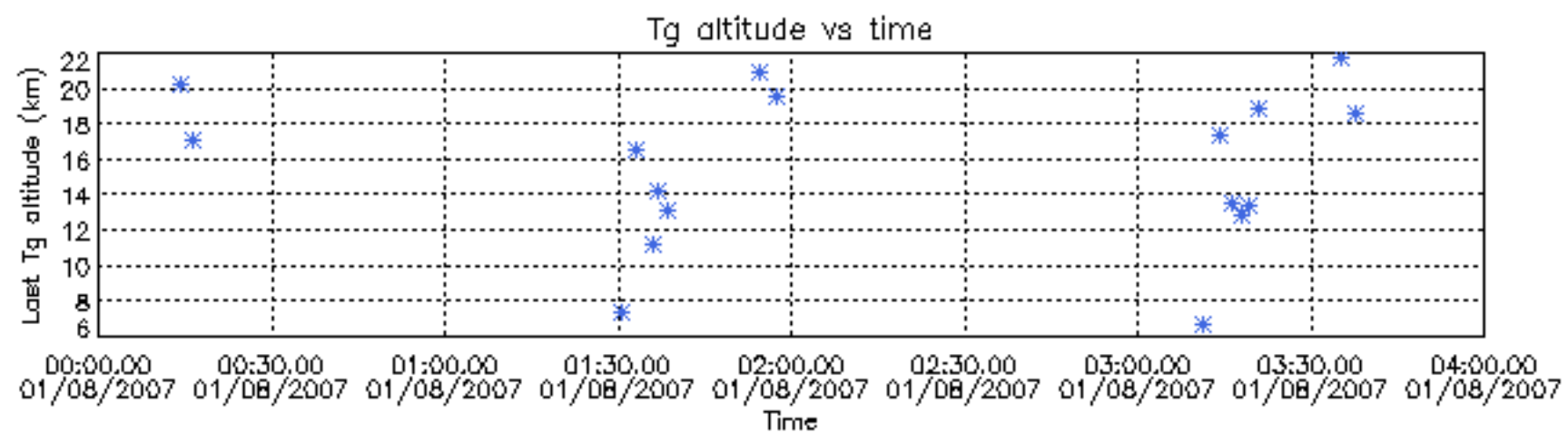
Percentage of star falling outside central band per profile



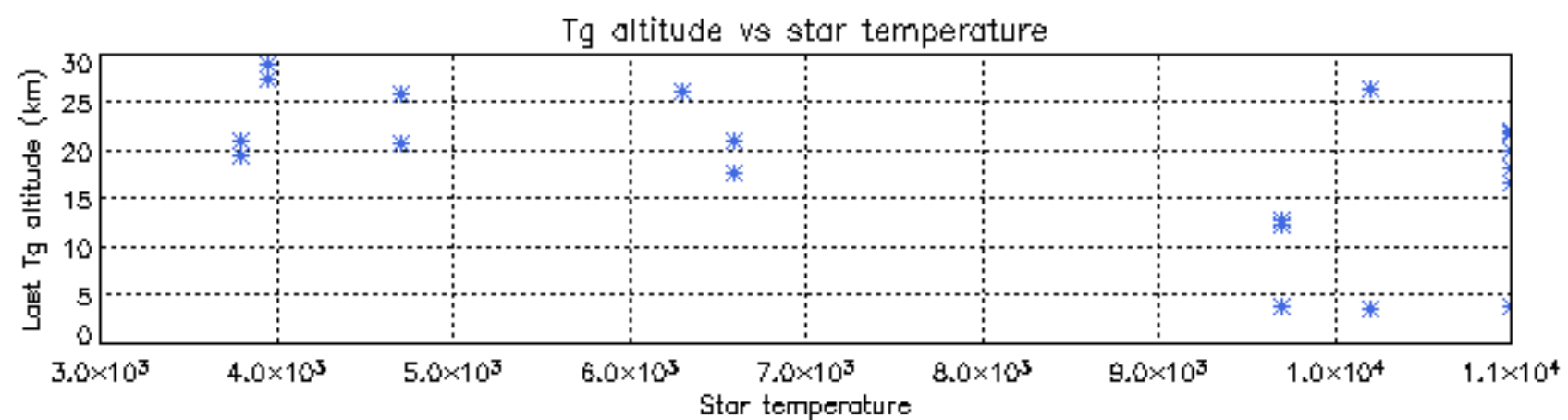
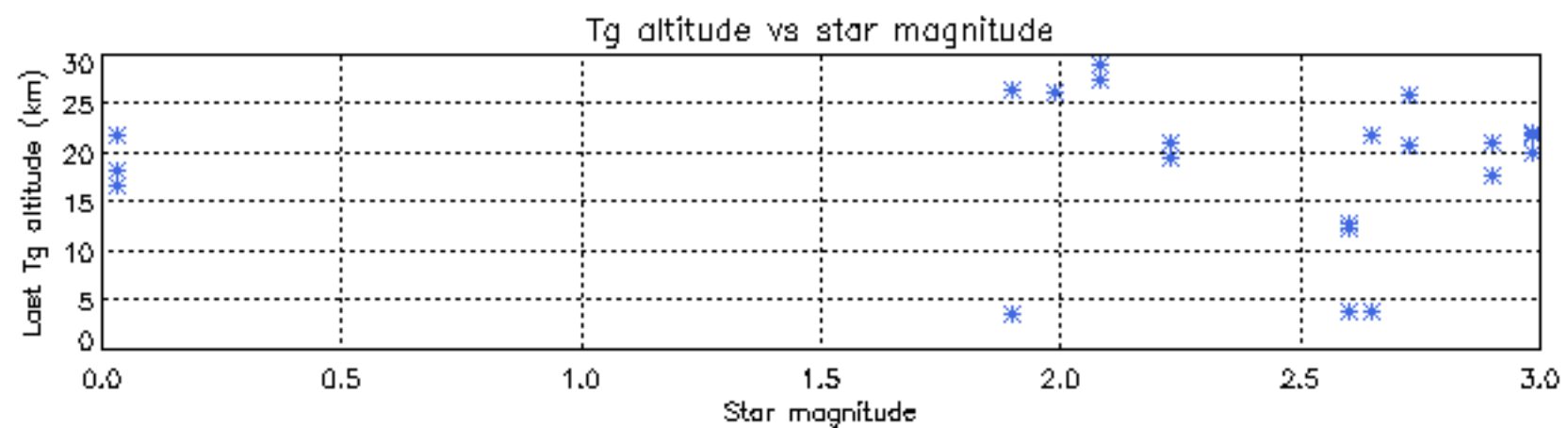
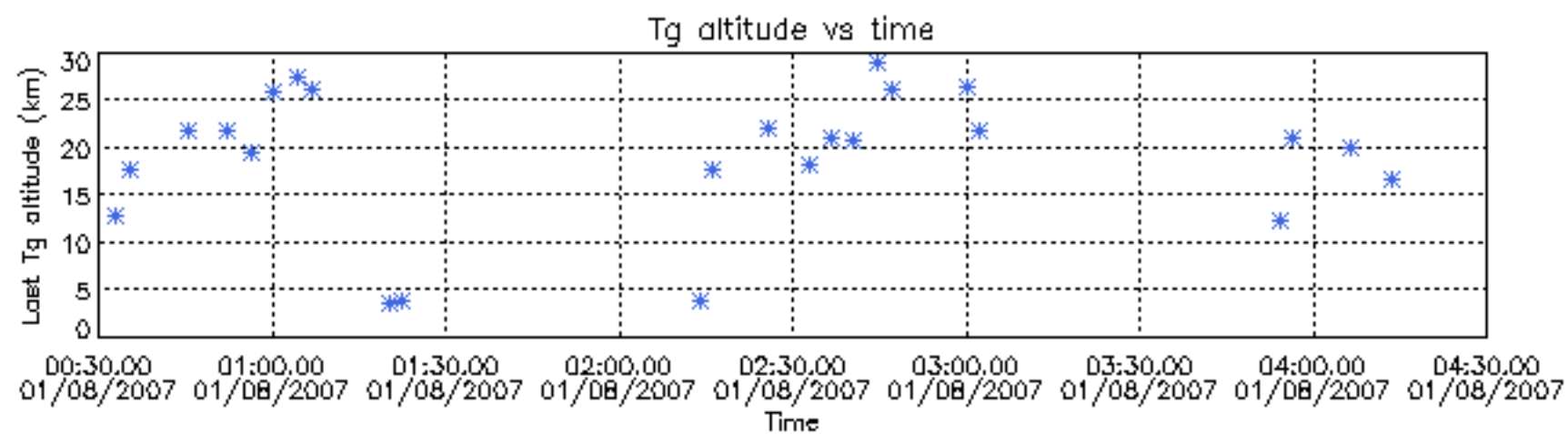
Percentage of saturation errors per profile

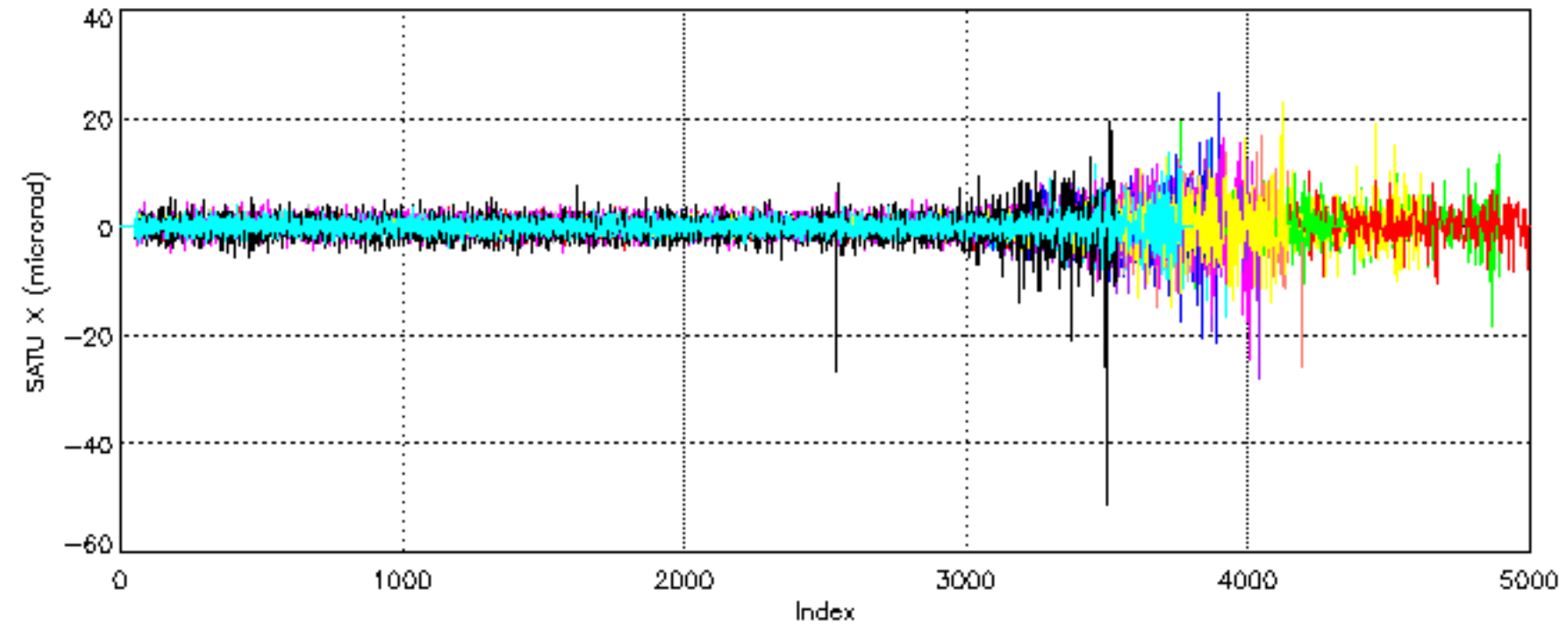


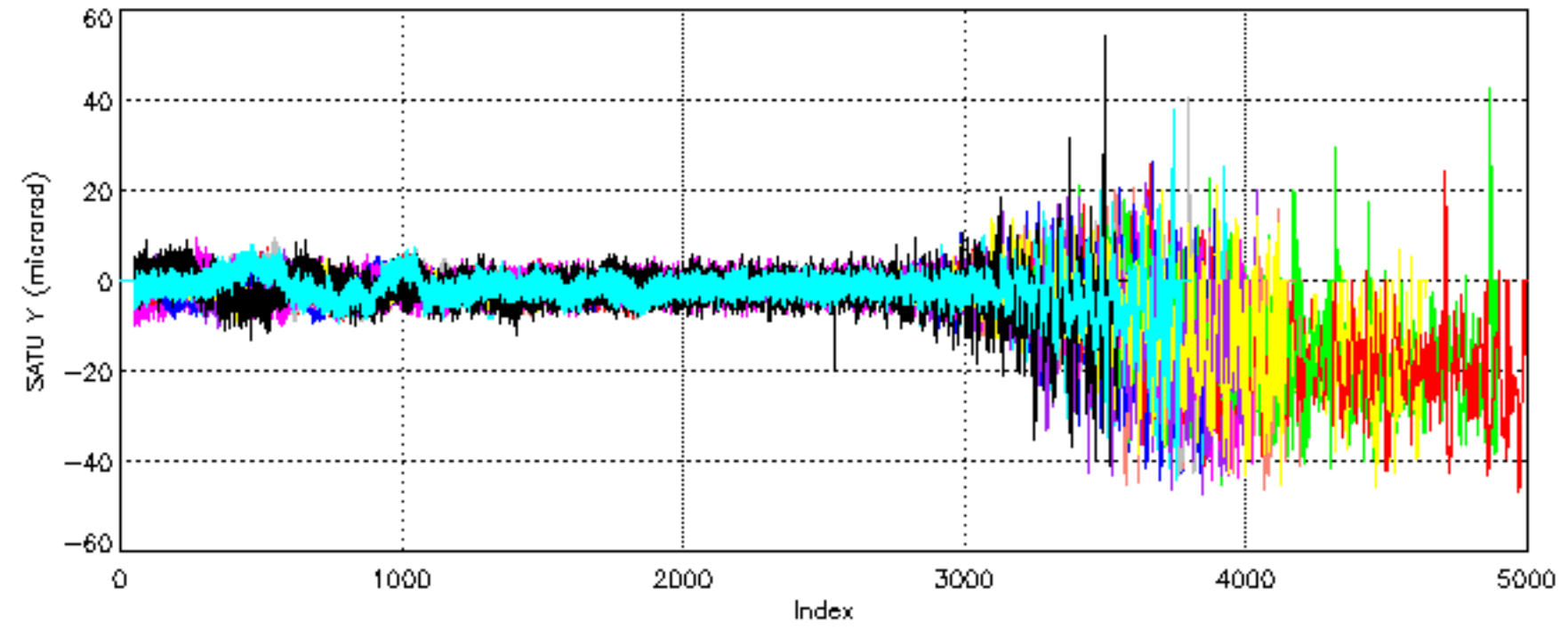
Tangent altitude at which the star is lost

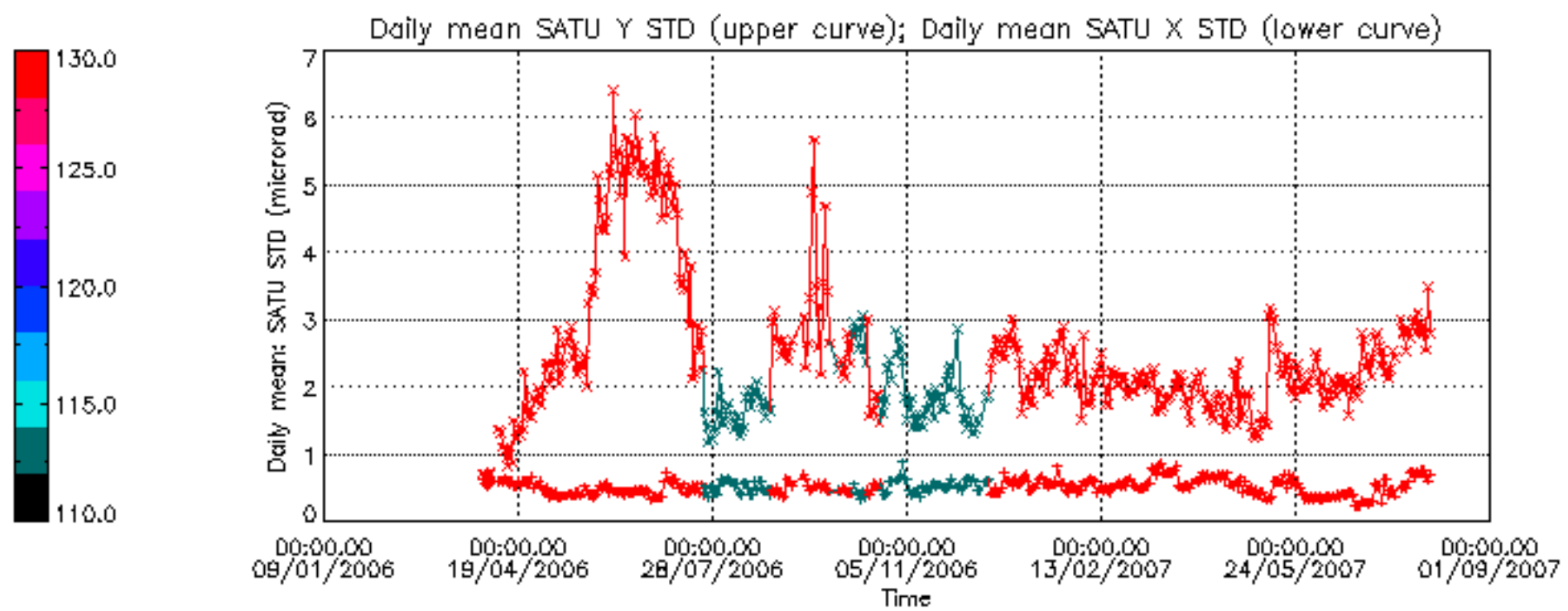


Tangent altitude at which the star is lost









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 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
 15; 3441.1; 01-AUG-2007 02:46:55; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 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
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 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
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 21; 3285.4; 01-AUG-2007 06:05:31; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 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
4; -481.5; 01-AUG-2007 21:48:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28339
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
10; 1557.2; 01-AUG-2007 22:22:42; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;28340
11; 2145.4; 01-AUG-2007 22:32:30; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28340
12; 2570.4; 01-AUG-2007 22:39:35; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;28340
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
15; 3441.0; 01-AUG-2007 22:54:06; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28340
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
19; 4861.1; 01-AUG-2007 23:17:46; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;28340
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21; 5153.6; 01-AUG-2007 23:22:38; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;28340
22; 5256.8; 01-AUG-2007 23:24:22; Dark ; 39.5; 47; 2Bet CMA ; 1.98; 28000;occ; 79; 0;28340
23; 5360.2; 01-AUG-2007 23:26:05; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 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
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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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 19; 6947.2; 01-AUG-2007 10:27:45; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;28332
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 19; 6947.4; 01-AUG-2007 12:08:21; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28333
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3; 2578.0; 06-AUG-2007 16:40:26; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;28408
4; 2682.5; 06-AUG-2007 16:42:10; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;28408
5; 2811.9; 06-AUG-2007 16:44:20; Bright; 37.0; 69; 33Gam Dra ; 2.23; 3800;occ; 74; 0;28408
6; 3440.1; 06-AUG-2007 16:54:48; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28408
7; 4217.8; 06-AUG-2007 17:07:46; Bright; 33.5; 42; 34Bet Aur ; 1.90; 10200;occ; 67; 0;28408
8; 4355.2; 06-AUG-2007 17:10:03; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28408
9; 4656.9; 06-AUG-2007 17:15:05; Dark ; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;28408

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 13; 5272.2; 06-AUG-2007 17:25:20; Dark ; 37.0; 47; 2Bet CMA ; 1.98; 28000;occ; 74; 0;28408
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 3; 2578.2; 06-AUG-2007 18:21:02; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;28409
 4; 2682.4; 06-AUG-2007 18:22:46; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;28409
 5; 2812.0; 06-AUG-2007 18:24:56; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;28409
 6; 3440.1; 06-AUG-2007 18:35:24; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28409
 7; 4217.5; 06-AUG-2007 18:48:21; Bright; 54.0; 42; 34Bet Aur ; 1.90; 10200;occ; 108; 0;28409
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 5; -763.9; 26-AUG-2007 06:52:59; Dark ; 100.0; 1; 9Alp CMa ; -1.44; 11000;occ; 200; 0;28688
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 8; 493.8; 26-AUG-2007 07:13:57; Dark ; 100.0; 9; Alp Eri ; 0.45; 24000;occ; 200; 0;28689
 9; 842.1; 26-AUG-2007 07:19:45; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;28689
10; 1008.7; 26-AUG-2007 07:22:32; Dark ; 94.0; 31; Alp Gru ; 1.73; 15200;occ; 188; 0;28689
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 6; 2082.6; 26-AUG-2007 19:24:37; Bright; 41.0; 61; 8Eps Peg ; 2.10; 3900;occ; 82; 0;28696
 7; 2486.6; 26-AUG-2007 19:31:21; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;28696
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 15; 4851.8; 26-AUG-2007 20:10:46; Dark ; 41.0; 153; 3Bet CMI ; 2.89; 13100;occ; 82; 0;28696
 16; 5329.3; 26-AUG-2007 20:18:44; Dark ; 52.5; 1; 9Alp CMA ; -1.44; 11000;occ; 105; 0;28696
 17; 5414.4; 26-AUG-2007 20:20:09; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;28696
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2; 1896.7; 30-AUG-2007 10:32:39; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28748
3; 2077.3; 30-AUG-2007 10:35:39; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;28748
4; 2486.4; 30-AUG-2007 10:42:29; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;28748
5; 2677.5; 30-AUG-2007 10:45:40; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;28748
6; 2979.0; 30-AUG-2007 10:50:41; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28748
7; 3435.2; 30-AUG-2007 10:58:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28748
8; 4448.6; 30-AUG-2007 11:15:11; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28748
9; 4605.3; 30-AUG-2007 11:17:47; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28748
10; 4781.4; 30-AUG-2007 11:20:44; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28748
11; 4906.1; 30-AUG-2007 11:22:48; Dark ; 43.5; 8; 10Alp CMi ; 0.40; 6500;occ; 87; 0;28748
12; 5357.1; 30-AUG-2007 11:30:19; Dark ; 46.5; 1; 9Alp CMa ; -1.44; 11000;occ; 93; 0;28748
13; 5437.3; 30-AUG-2007 11:31:39; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;28748
14; 5525.5; 30-AUG-2007 11:33:08; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;28748
15; 5621.0; 30-AUG-2007 11:34:43; Dark ; 39.5; 177; 1Zet CMa ; 3.02; 26000;occ; 79; 0;28748
16; 5717.1; 30-AUG-2007 11:36:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28748
17; 6547.6; 30-AUG-2007 11:50:10; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28748
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19; 6980.7; 30-AUG-2007 11:57:23; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;28748
20; 7077.7; 30-AUG-2007 11:59:00; Dark ; 43.5; 63; Bet Gru ; 2.15; 2800;occ; 87; 0;28748
21; 7357.4; 30-AUG-2007 12:03:40; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;28748
22; 7651.7; 30-AUG-2007 12:08:34; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28748

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2; 1805.4; 30-AUG-2007 12:11:43; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28749
3; 1896.7; 30-AUG-2007 12:13:15; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28749
4; 2077.3; 30-AUG-2007 12:16:15; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28749
5; 2486.5; 30-AUG-2007 12:23:04; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;28749
6; 2677.6; 30-AUG-2007 12:26:16; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28749
7; 2978.8; 30-AUG-2007 12:31:17; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28749
8; 3435.1; 30-AUG-2007 12:38:53; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28749
9; 4448.6; 30-AUG-2007 12:55:47; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28749
10; 4605.6; 30-AUG-2007 12:58:24; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28749
11; 4781.9; 30-AUG-2007 13:01:20; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28749
12; 4906.4; 30-AUG-2007 13:03:24; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;28749
13; 5357.8; 30-AUG-2007 13:10:56; Dark ; 46.0; 1; 9Alp CMa ; -1.44; 11000;occ; 92; 0;28749
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16; 5621.8; 30-AUG-2007 13:15:20; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28749
17; 5717.7; 30-AUG-2007 13:16:56; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28749
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19; 6623.4; 30-AUG-2007 13:32:01; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28749
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21; 7078.1; 30-AUG-2007 13:39:36; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28749
22; 7357.9; 30-AUG-2007 13:44:16; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;28749

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2; 1805.6; 30-AUG-2007 13:52:19; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28750
3; 1896.6; 30-AUG-2007 13:53:50; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28750

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5; 2486.7; 30-AUG-2007 14:03:40; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28750
6; 2677.6; 30-AUG-2007 14:06:51; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28750
7; 2978.7; 30-AUG-2007 14:11:53; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28750
8; 3435.3; 30-AUG-2007 14:19:29; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28750
9; 4448.9; 30-AUG-2007 14:36:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28750
10; 4605.9; 30-AUG-2007 14:39:00; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28750
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12; 4906.8; 30-AUG-2007 14:44:01; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28750
13; 5358.4; 30-AUG-2007 14:51:32; Dark ; 51.0; 1; 9Alp CMa ; -1.44; 11000;occ; 102; 0;28750
14; 5438.3; 30-AUG-2007 14:52:52; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;28750
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17; 5718.4; 30-AUG-2007 14:57:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28750
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3; 1805.7; 30-AUG-2007 15:32:55; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28751
4; 1896.6; 30-AUG-2007 15:34:26; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28751
5; 2077.2; 30-AUG-2007 15:37:27; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;28751
6; 2486.7; 30-AUG-2007 15:44:16; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;28751
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8; 2978.7; 30-AUG-2007 15:52:28; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28751
9; 3435.3; 30-AUG-2007 16:00:05; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28751
10; 4449.0; 30-AUG-2007 16:16:59; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28751
11; 4606.1; 30-AUG-2007 16:19:36; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28751
12; 4782.8; 30-AUG-2007 16:22:33; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28751
13; 4907.1; 30-AUG-2007 16:24:37; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;28751
14; 5359.0; 30-AUG-2007 16:32:09; Dark ; 47.5; 1; 9Alp CMa ; -1.44; 11000;occ; 95; 0;28751
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21; 6982.8; 30-AUG-2007 16:59:13; Dark ; 57.5; 84; Alp Phe ; 2.40; 4500;occ; 115; 0;28751
22; 7078.9; 30-AUG-2007 17:00:49; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;28751

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3; 1805.6; 30-AUG-2007 17:13:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28752
4; 1896.7; 30-AUG-2007 17:15:02; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28752
5; 2077.1; 30-AUG-2007 17:18:03; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28752
6; 2486.7; 30-AUG-2007 17:24:52; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28752
7; 2677.6; 30-AUG-2007 17:28:03; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;28752
8; 2978.5; 30-AUG-2007 17:33:04; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28752
9; 3435.2; 30-AUG-2007 17:40:41; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28752
10; 4449.2; 30-AUG-2007 17:57:35; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28752
11; 4606.4; 30-AUG-2007 18:00:12; Dark ; 47.0; 170; 27Eps Gem ; 3.00; 9700;occ; 94; 0;28752
12; 4783.1; 30-AUG-2007 18:03:09; Dark ; 49.0; 44; 24Gam Gem ; 1.93; 11000;occ; 98; 0;28752
13; 4907.4; 30-AUG-2007 18:05:13; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28752
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17; 5623.8; 30-AUG-2007 18:17:10; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28752
18; 5719.7; 30-AUG-2007 18:18:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28752
19; 6550.1; 30-AUG-2007 18:32:36; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28752
20; 6625.4; 30-AUG-2007 18:33:51; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28752
21; 6983.4; 30-AUG-2007 18:39:49; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;28752
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2; 1322.9; 30-AUG-2007 18:46:05; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;28753
3; 1616.5; 30-AUG-2007 18:50:58; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;28753


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5; 1896.7; 30-AUG-2007 18:55:38; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28753
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7; 2486.8; 30-AUG-2007 19:05:29; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28753
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10; 3435.2; 30-AUG-2007 19:21:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28753
11; 4449.2; 30-AUG-2007 19:38:11; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28753
12; 4606.5; 30-AUG-2007 19:40:48; Dark ; 46.5; 170; 27Eps Gem ; 3.00; 9700;occ; 93; 0;28753
13; 4783.3; 30-AUG-2007 19:43:45; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28753
14; 4907.6; 30-AUG-2007 19:45:49; Dark ; 48.0; 8; 10Alp CMi ; 0.40; 6500;occ; 96; 0;28753
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17; 5528.0; 30-AUG-2007 19:56:10; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;28753
18; 5624.4; 30-AUG-2007 19:57:46; Dark ; 42.0; 177; 1Zet CMa ; 3.02; 26000;occ; 84; 0;28753
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20; 6550.4; 30-AUG-2007 20:13:12; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28753
21; 6625.9; 30-AUG-2007 20:14:28; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28753
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5; 516.1; 31-AUG-2007 01:15:01; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;28757
6; 591.8; 31-AUG-2007 01:16:17; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;28757
7; 949.7; 31-AUG-2007 01:22:15; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;28757
8; 1044.4; 31-AUG-2007 01:23:50; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;28757
9; 1323.9; 31-AUG-2007 01:28:29; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28757
10; 1616.8; 31-AUG-2007 01:33:22; Dark ; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;28757
11; 1805.9; 31-AUG-2007 01:36:31; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28757
12; 1896.3; 31-AUG-2007 01:38:02; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28757
13; 2076.7; 31-AUG-2007 01:41:02; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28757
14; 2486.8; 31-AUG-2007 01:47:52; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;28757
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21; 7653.5; 31-AUG-2007 11:36:59; Dark ; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;28762

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4; 2076.4; 31-AUG-2007 11:44:37; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28763
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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
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3; 1896.1; 31-AUG-2007 15:02:49; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28765
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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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5; 2076.2; 31-AUG-2007 16:46:25; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28766
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7; 2677.9; 31-AUG-2007 16:56:27; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28766
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12; 4788.3; 31-AUG-2007 17:31:37; Dark ; 52.5; 44; 24Gam Gem ; 1.93; 11000;occ; 105; 0;28766
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14; 5367.8; 31-AUG-2007 17:41:16; Dark ; 58.0; 1; 9Alp CMa ; -1.44; 11000;occ; 116; 0;28766
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16; 5633.3; 31-AUG-2007 17:45:42; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28766
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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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