

GOMOS Daily Report 30-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	01SEP2007 05:43:13
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (30AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (31AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

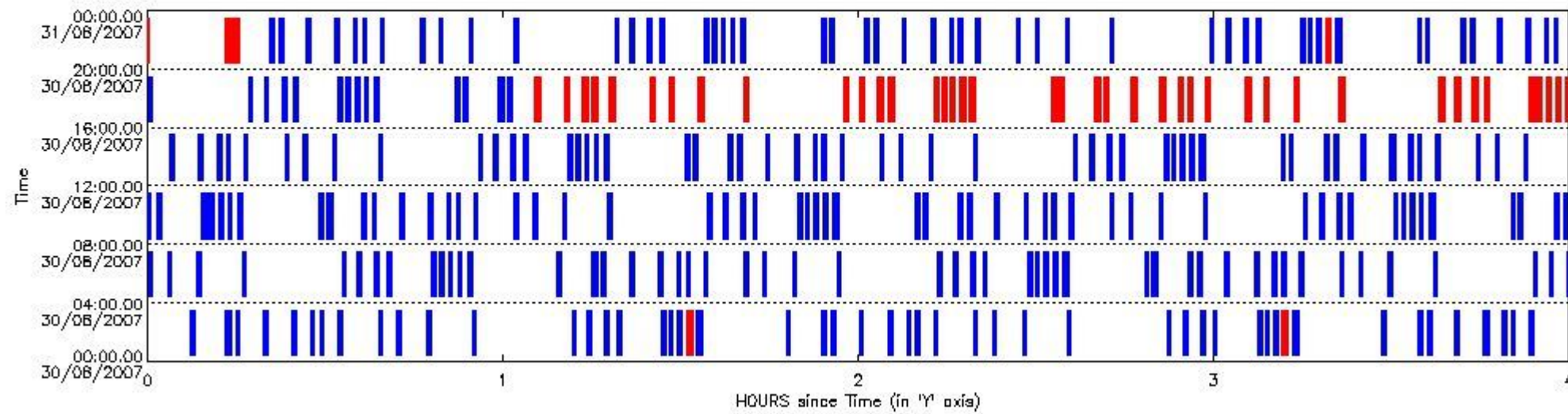
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
30-AUG-2007 01:30:57	1ZetCMa	177	28742
30-AUG-2007 03:11:33	1ZetCMa	177	28743
30-AUG-2007 17:05:21	24AlpPsA	18	28752
30-AUG-2007 17:10:15	49DelCap	142	28752
30-AUG-2007 17:13:24	22BetAqr	154	28752
30-AUG-2007 17:14:55	34AlpAqr	162	28752
30-AUG-2007 17:17:56	8EpsPeg	61	28752
30-AUG-2007 17:24:45	53EpsCyg	92	28752
30-AUG-2007 17:27:56	50AlpCyg	19	28752
30-AUG-2007 17:32:57	5AlpCep	89	28752
30-AUG-2007 17:40:34	1AlpUMi	49	28752
30-AUG-2007 17:57:28	66AlpGem	24	28752
30-AUG-2007 18:00:05	27EpsGem	170	28752
30-AUG-2007 18:03:02	24GamGem	44	28752
30-AUG-2007 18:05:06	10AlpCMi	8	28752

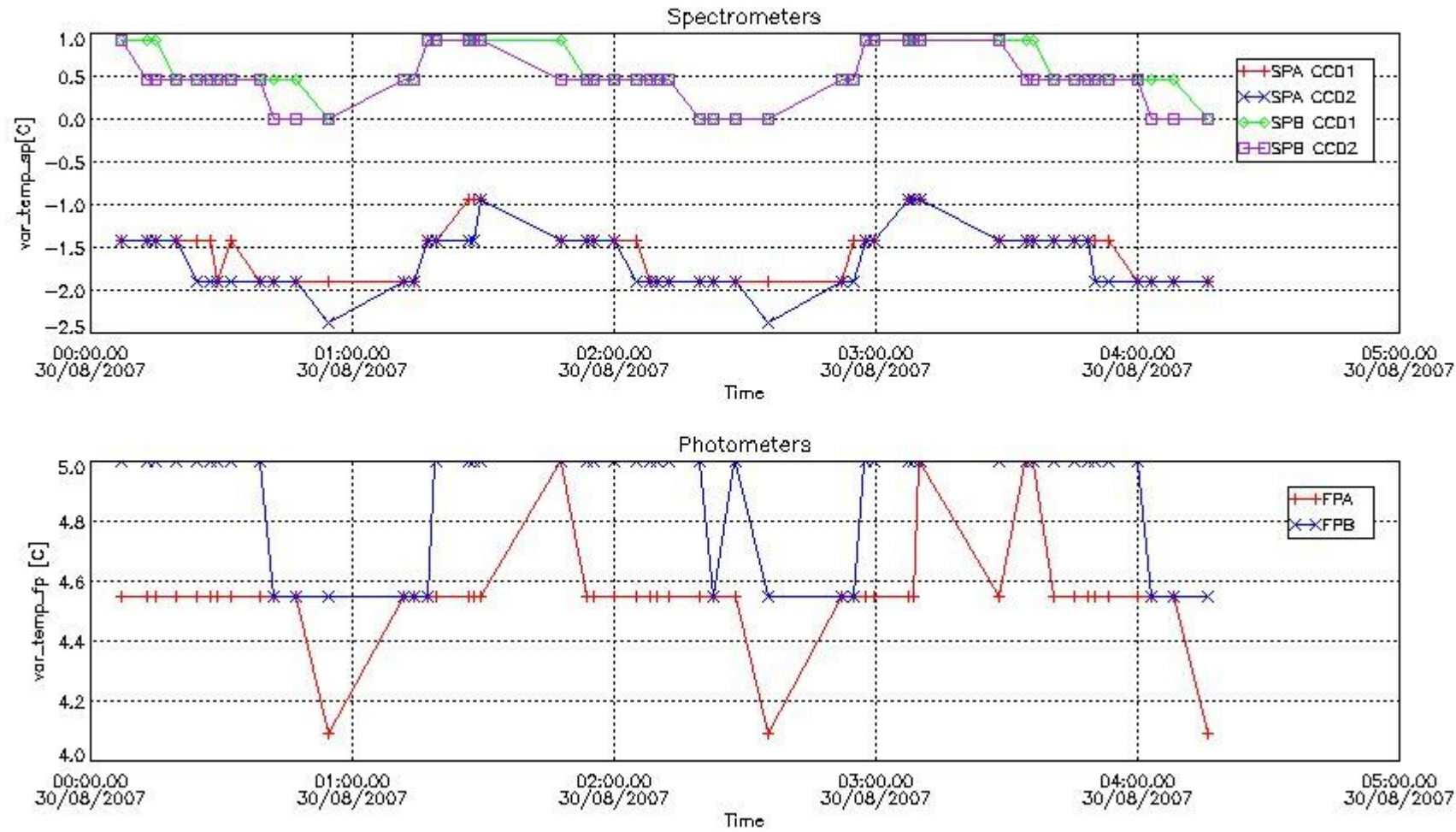
30-AUG-2007 18:12:38	9AlpCMa	1	28752
30-AUG-2007 18:13:58	24Omi2CMa	179	28752
30-AUG-2007 18:15:26	21EpsCMa	23	28752
30-AUG-2007 18:17:02	1ZetCMa	177	28752
30-AUG-2007 18:18:39	DSA1059	0	28752
30-AUG-2007 18:32:29	AlpHyi	143	28753
30-AUG-2007 18:33:44	AlpEri	9	28753
30-AUG-2007 18:39:42	AlpPhe	84	28753
30-AUG-2007 18:41:18	BetGru	63	28753
30-AUG-2007 18:45:58	24AlpPsA	18	28753
30-AUG-2007 18:50:51	49DelCap	142	28753
30-AUG-2007 18:54:00	22BetAqr	154	28753
30-AUG-2007 18:55:31	34AlpAqr	162	28753
30-AUG-2007 18:58:32	8EpsPeg	61	28753
30-AUG-2007 19:05:21	53EpsCyg	92	28753
30-AUG-2007 19:08:32	50AlpCyg	19	28753
30-AUG-2007 19:13:33	5AlpCep	89	28753
30-AUG-2007 19:21:10	1AlpUMi	49	28753
30-AUG-2007 19:38:04	66AlpGem	24	28753
30-AUG-2007 19:40:41	27EpsGem	170	28753
30-AUG-2007 19:43:38	24GamGem	44	28753
30-AUG-2007 19:45:43	10AlpCMi	8	28753
30-AUG-2007 19:53:15	9AlpCMa	1	28753
30-AUG-2007 19:54:34	24Omi2CMa	179	28753
30-AUG-2007 19:56:03	21EpsCMa	23	28753
30-AUG-2007 19:57:39	1ZetCMa	177	28753
30-AUG-2007 19:59:15	DSA1059	0	28753
30-AUG-2007 20:13:05	AlpHyi	143	28754
30-AUG-2007 20:14:21	AlpEri	9	28754
30-AUG-2007 23:18:52	1ZetCMa	177	28755

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_1PNPDE20070830_000709_000000522061_00131_28742_7048.N1	30-AUG-2007 00:07:09	Dark	52.000	9	Alp Eri	0.45300	24000.	104	28742	No
2	GOM_TRA_1PNPDE20070830_001307_000000512061_00131_28742_7049.N1	30-AUG-2007 00:13:07	Straylight	51.000	84	Alp Phe	2.3970	4500.0	102	28742	No
3	GOM_TRA_1PNPDE20070830_001446_000000452061_00131_28742_7050.N1	30-AUG-2007 00:14:46	Straylight	45.000	63	Bet Gru	2.1500	2800.0	90	28742	No
4	GOM_TRA_1PNPDE20070830_001926_000000492061_00131_28742_7051.N1	30-AUG-2007 00:19:26	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	28742	No
5	GOM_TRA_1PNPDE20070830_002421_000000492061_00131_28742_7052.N1	30-AUG-2007 00:24:21	Bright	48.500	142	49Del Cap	2.8500	8900.0	97	28742	No
6	GOM_TRA_1PNPDE20070830_002731_000000372061_00131_28742_7053.N1	30-AUG-2007 00:27:31	Bright	36.500	154	22Bet Aqr	2.8990	5700.0	73	28742	No
7	GOM_TRA_1PNPDE20070830_002904_000000412061_00131_28742_7054.N1	30-AUG-2007 00:29:04	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	28742	No
8	GOM_TRA_1PNPDE20070830_003204_000000392061_00131_28742_7055.N1	30-AUG-2007 00:32:04	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	28742	No
9	GOM_TRA_1PNPDE20070830_003853_000000362061_00131_28742_7056.N1	30-AUG-2007 00:38:53	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	28742	No
10	GOM_TRA_1PNPDE20070830_004204_000000362061_00131_28742_7057.N1	30-AUG-2007 00:42:04	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	28742	No
11	GOM_TRA_1PNPDE20070830_004706_000000372061_00131_28742_7058.N1	30-AUG-2007 00:47:06	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	28742	No
12	GOM_TRA_1PNPDE20070830_005442_000000322061_00131_28742_7059.N1	30-AUG-2007 00:54:42	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	28742	No
13	GOM_TRA_1PNPDE20070830_011134_000000382061_00131_28742_7060.N1	30-AUG-2007 01:11:34	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	28742	No
14	GOM_TRA_1PNPDE20070830_011410_000000492061_00131_28742_7061.N1	30-AUG-2007 01:14:10	Bright	48.500	170	27Eps Gem	3.0000	9700.0	97	28742	No
15	GOM_TRA_1PNPDE20070830_011706_000000472061_00131_28742_7062.N1	30-AUG-2007 01:17:06	Twilight	46.500	44	24Gam Gem	1.9280	11000.	93	28742	No
16	GOM_TRA_1PNPDE20070830_011911_000000462061_00131_28742_7063.N1	30-AUG-2007 01:19:11	Twilight	45.500	8	10Alp CMi	0.40000	6500.0	91	28742	No
17	GOM_TRA_1PNPDE20070830_012640_000000482061_00131_28742_7182.N1	30-AUG-2007 01:26:40	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	28742	No
18	GOM_TRA_1PNPDE20070830_012801_000000372061_00131_28742_7183.N1	30-AUG-2007 01:28:01	Dark	37.000	179	24Omi2CMa	3.0320	24000.	74	28742	No
19	GOM_TRA_1PNPDE20070830_012929_000000452061_00131_28742_7184.N1	30-AUG-2007 01:29:29	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	28742	No
20	GOM_TRA_1PNPDE20070830_014746_000000452061_00132_28743_7185.N1	30-AUG-2007 01:47:46	Dark	44.500	9	Alp Eri	0.45300	24000.	89	28743	No
21	GOM_TRA_1PNPDE20070830_015343_000000522061_00132_28743_7186.N1	30-AUG-2007 01:53:43	Straylight	52.000	84	Alp Phe	2.3970	4500.0	104	28743	No
22	GOM_TRA_1PNPDE20070830_015522_000000422061_00132_28743_7187.N1	30-AUG-2007 01:55:22	Straylight	41.500	63	Bet Gru	2.1500	2800.0	83	28743	No
23	GOM_TRA_1PNPDE20070830_020002_000000482061_00132_28743_7188.N1	30-AUG-2007 02:00:02	Straylight	47.500	18	24Alp PsA	1.1660	9700.0	95	28743	No
24	GOM_TRA_1PNPDE20070830_020457_000000502061_00132_28743_7189.N1	30-AUG-2007 02:04:57	Bright	49.500	142	49Del Cap	2.8500	8900.0	99	28743	No

25	GOM_TRA_1PNPDE20070830_020807_000000382061_00132_28743_7190.N1	30-AUG-2007 02:08:07	Bright	37.500	154	22Bet Aqr	2.8990	5700.0	75	28743	No
26	GOM_TRA_1PNPDE20070830_020939_000000412061_00132_28743_7191.N1	30-AUG-2007 02:09:39	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	28743	No
27	GOM_TRA_1PNPDE20070830_021240_000000392061_00132_28743_7192.N1	30-AUG-2007 02:12:40	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	28743	No
28	GOM_TRA_1PNPDE20070830_021929_000000372061_00132_28743_7193.N1	30-AUG-2007 02:19:29	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	28743	No
29	GOM_TRA_1PNPDE20070830_022240_000000372061_00132_28743_7194.N1	30-AUG-2007 02:22:40	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	28743	No
30	GOM_TRA_1PNPDE20070830_022742_000000372061_00132_28743_7195.N1	30-AUG-2007 02:27:42	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	28743	No
31	GOM_TRA_1PNPDE20070830_023518_000000322061_00132_28743_7196.N1	30-AUG-2007 02:35:18	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	28743	No
32	GOM_TRA_1PNPDE20070830_025210_000000372061_00132_28743_7334.N1	30-AUG-2007 02:52:10	Bright	37.000	24	66Alp Gem	1.5800	10200.	74	28743	No
33	GOM_TRA_1PNPDE20070830_025447_000000492061_00132_28743_7335.N1	30-AUG-2007 02:54:47	Bright	48.500	170	27Eps Gem	3.0000	9700.0	97	28743	No
34	GOM_TRA_1PNPDE20070830_025742_000000492061_00132_28743_7336.N1	30-AUG-2007 02:57:42	Twilight	48.500	44	24Gam Gem	1.9280	11000.	97	28743	No
35	GOM_TRA_1PNPDE20070830_025947_000000422061_00132_28743_7337.N1	30-AUG-2007 02:59:47	Twilight	41.500	8	10Alp CMi	0.40000	6500.0	83	28743	No
36	GOM_TRA_1PNPDE20070830_030717_000000492061_00132_28743_7338.N1	30-AUG-2007 03:07:17	Dark	49.000	1	9Alp CMa	-1.4400	11000.	98	28743	No
37	GOM_TRA_1PNPDE20070830_030837_000000402061_00132_28743_7339.N1	30-AUG-2007 03:08:37	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	28743	No
38	GOM_TRA_1PNPDE20070830_031006_000000432061_00132_28743_7340.N1	30-AUG-2007 03:10:06	Dark	43.000	23	21Eps CMa	1.5020	26000.	86	28743	No
39	GOM_TRA_1PNPDE20070830_032822_000000482061_00133_28744_7341.N1	30-AUG-2007 03:28:22	Dark	47.500	9	Alp Eri	0.45300	24000.	95	28744	No
40	GOM_TRA_1PNPDE20070830_033420_000000502061_00133_28744_7342.N1	30-AUG-2007 03:34:20	Straylight	50.000	84	Alp Phe	2.3970	4500.0	100	28744	No
41	GOM_TRA_1PNPDE20070830_033559_000000472061_00133_28744_7343.N1	30-AUG-2007 03:35:59	Straylight	47.000	63	Bet Gru	2.1500	2800.0	94	28744	No
42	GOM_TRA_1PNPDE20070830_034039_000000492061_00133_28744_7344.N1	30-AUG-2007 03:40:39	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	28744	No
43	GOM_TRA_1PNPDE20070830_034534_000000542061_00133_28744_7345.N1	30-AUG-2007 03:45:34	Bright	54.000	142	49Del Cap	2.8500	8900.0	108	28744	No
44	GOM_TRA_1PNPDE20070830_034843_000000382061_00133_28744_7346.N1	30-AUG-2007 03:48:43	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	28744	No
45	GOM_TRA_1PNPDE20070830_035015_000000402061_00133_28744_7347.N1	30-AUG-2007 03:50:15	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	28744	No
46	GOM_TRA_1PNPDE20070830_035316_000000392061_00133_28744_7348.N1	30-AUG-2007 03:53:16	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	28744	No
47	GOM_TRA_1PNPDE20070830_040005_000000372061_00133_28744_7349.N1	30-AUG-2007 04:00:05	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	28744	No
48	GOM_TRA_1PNPDE20070830_040316_000000372061_00133_28744_7350.N1	30-AUG-2007 04:03:16	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	28744	No
49	GOM_TRA_1PNPDE20070830_040818_000000362061_00133_28744_7351.N1	30-AUG-2007 04:08:18	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	28744	No
50	GOM_TRA_1PNPDE20070830_041554_000000332061_00133_28744_7352.N1	30-AUG-2007 04:15:54	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28744	No

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



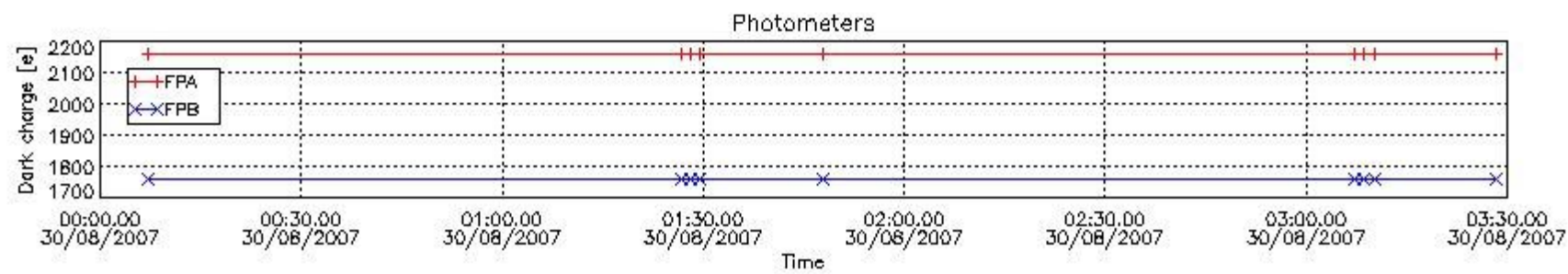
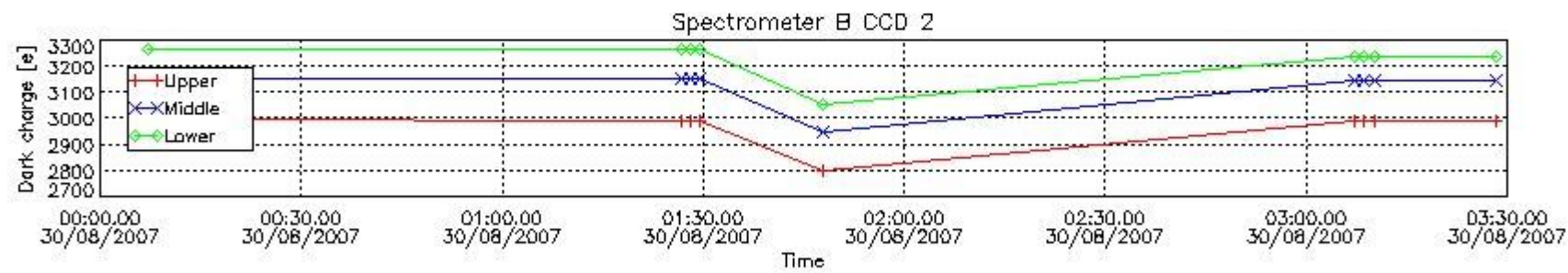
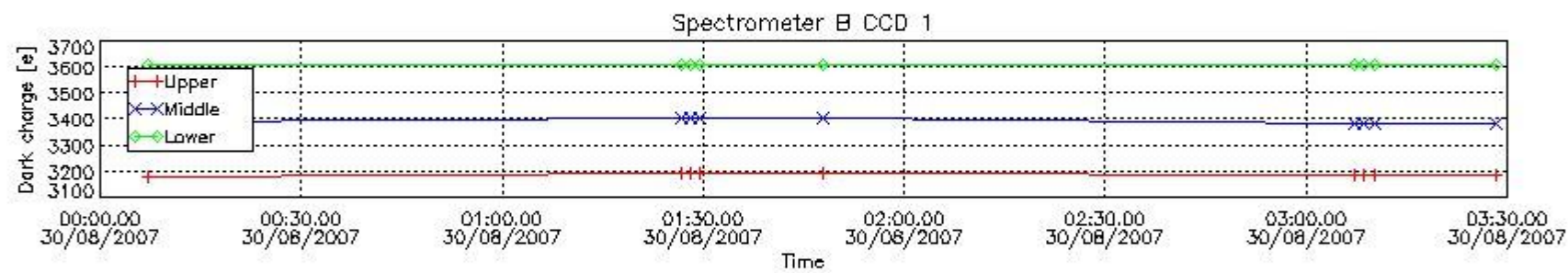
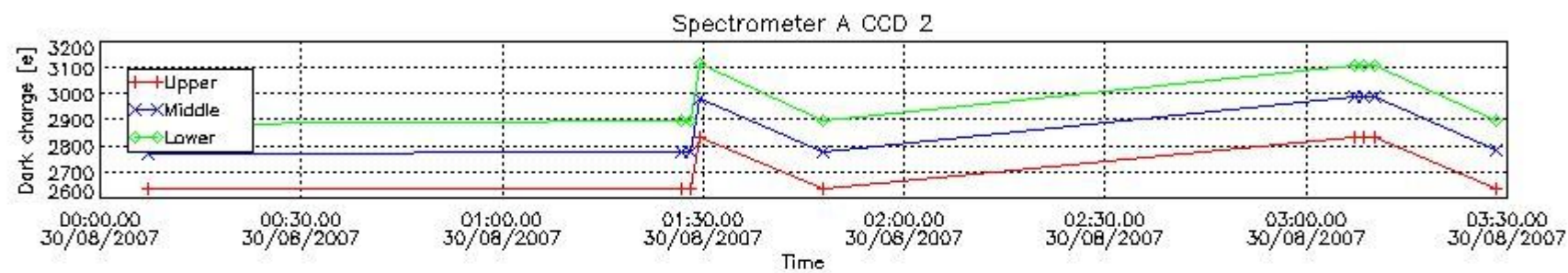
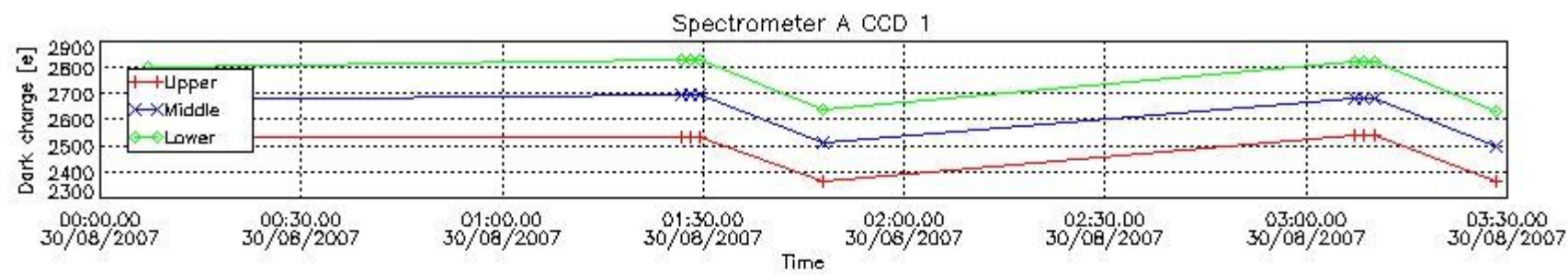
4. Overview of dark signal processing per product

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



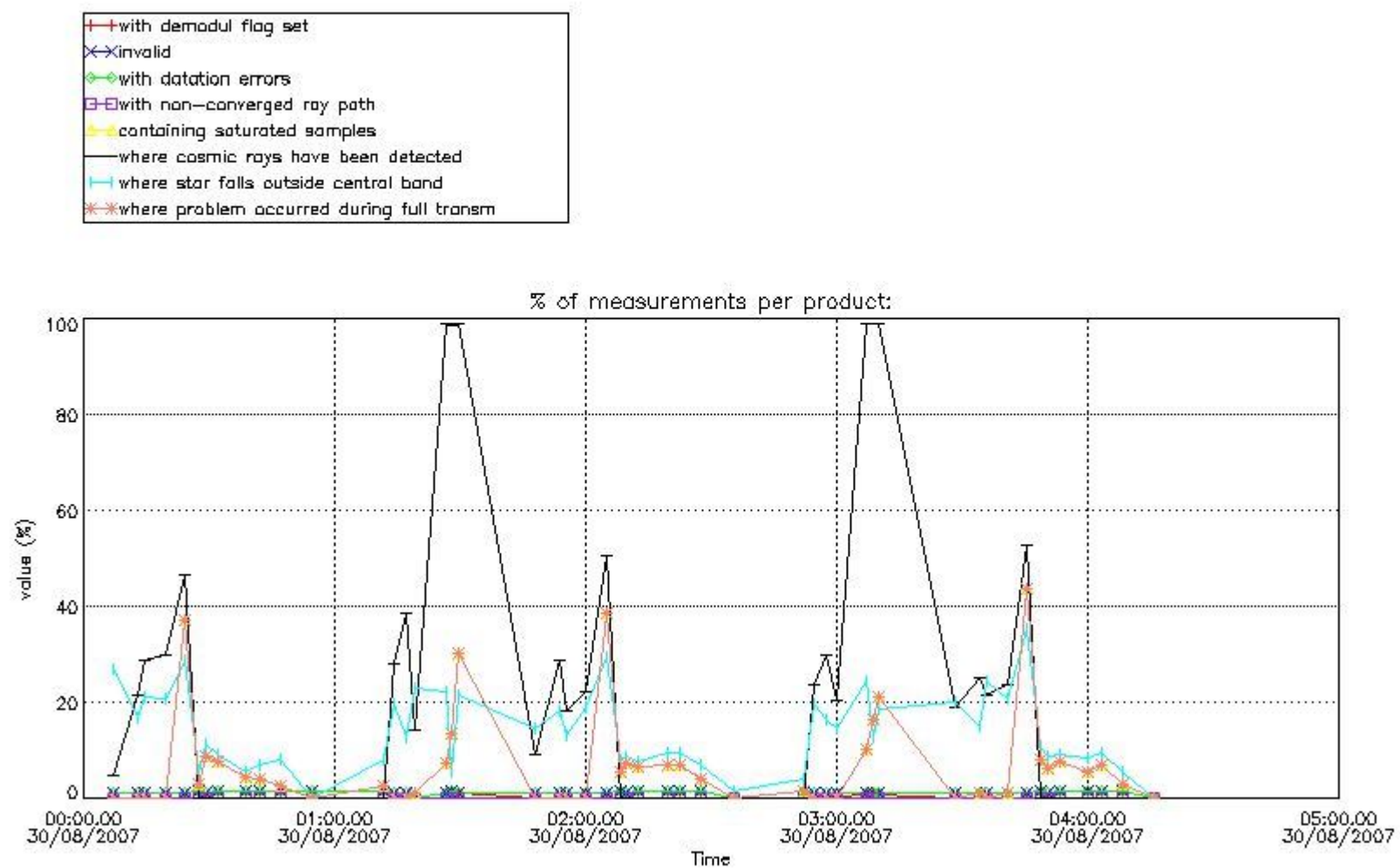
5. Demodulation flag and quality information monitoring

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.

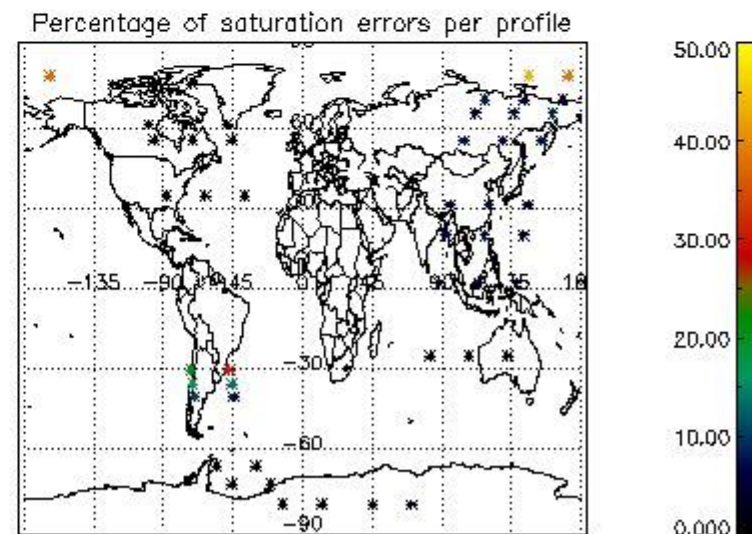
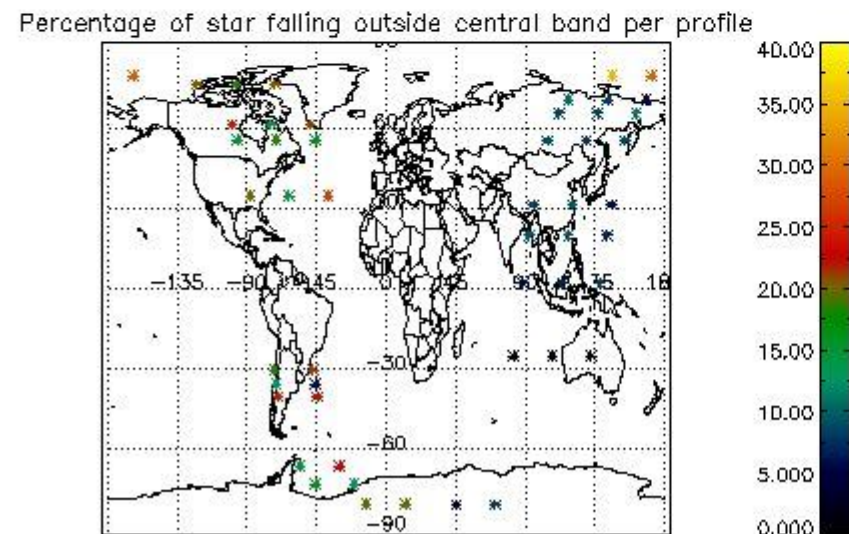
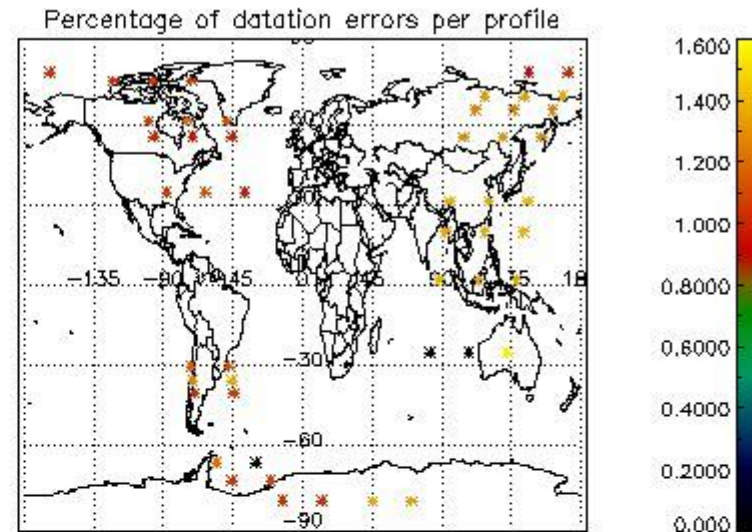
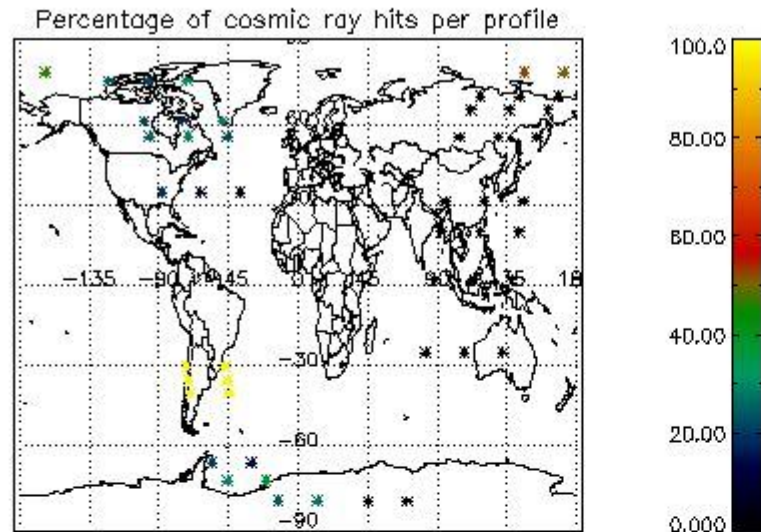
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



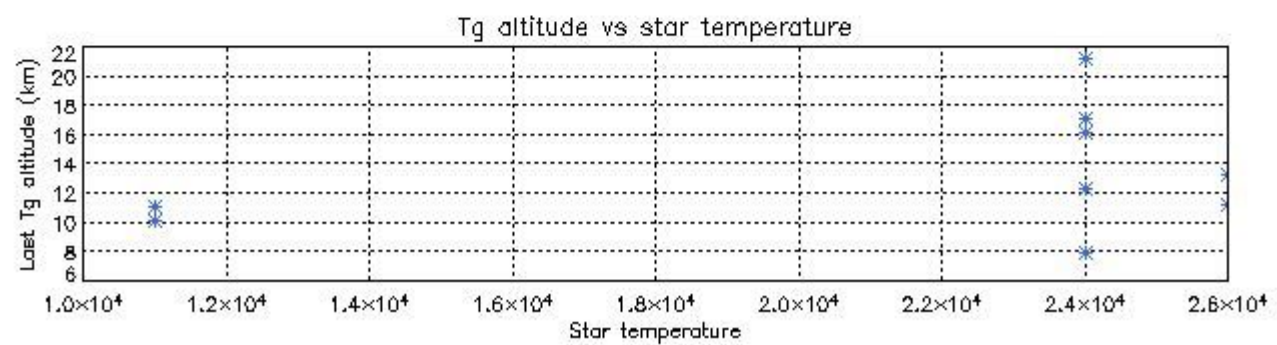
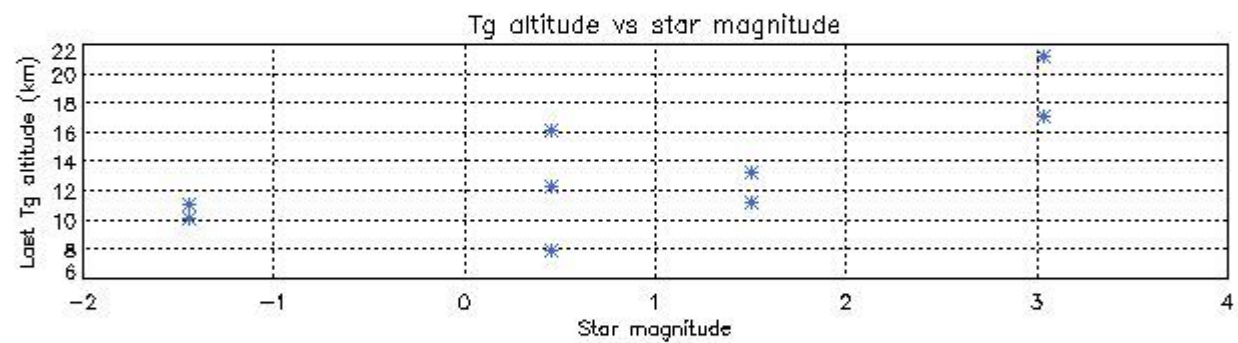
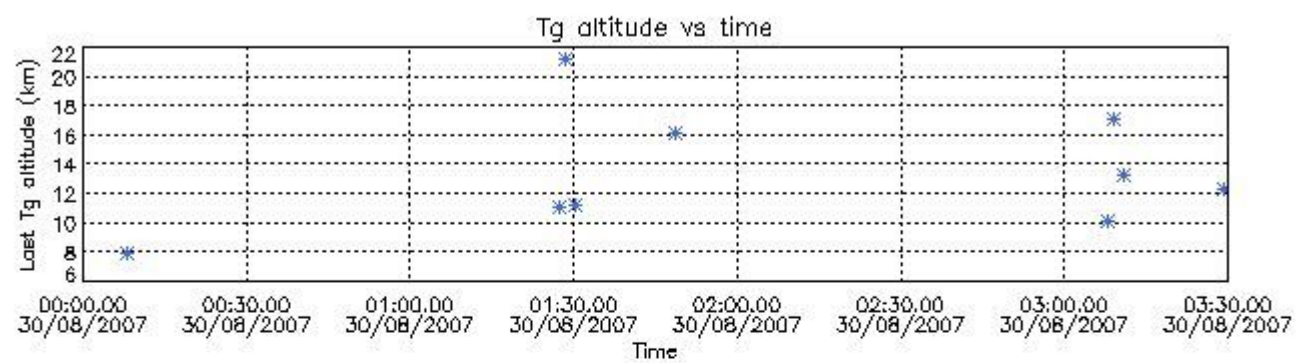
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.337	18.650	11.949
St. deviation:	4.0946	6.0125	2.4844
Maximum:	21.151	30.434	13.706
Minimum:	7.8641	3.8303	10.192
Number of data:	9.0000	28.000	2.0000

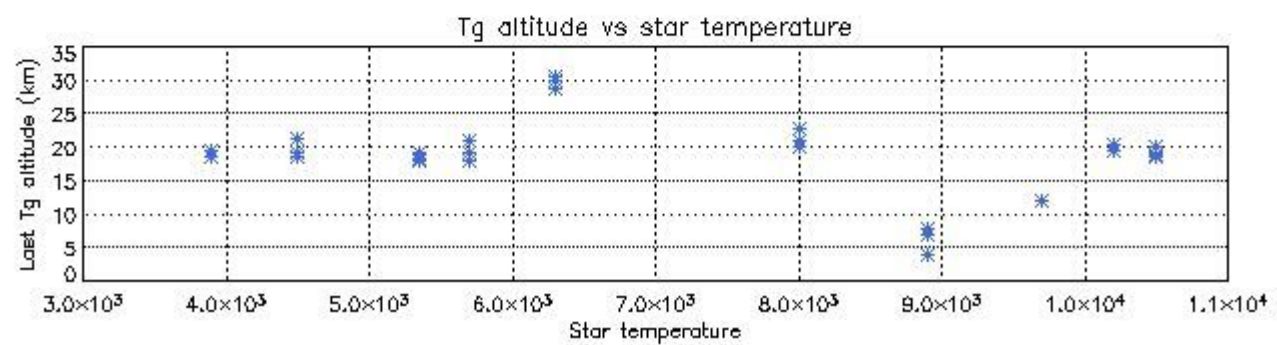
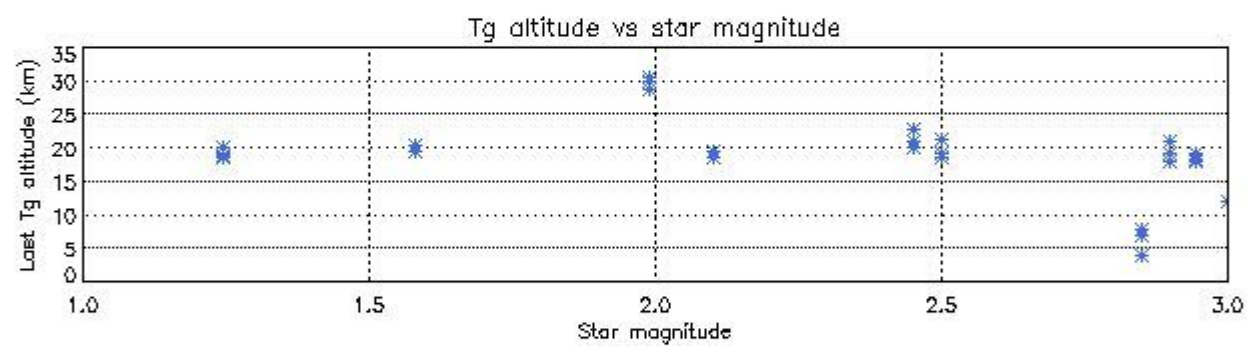
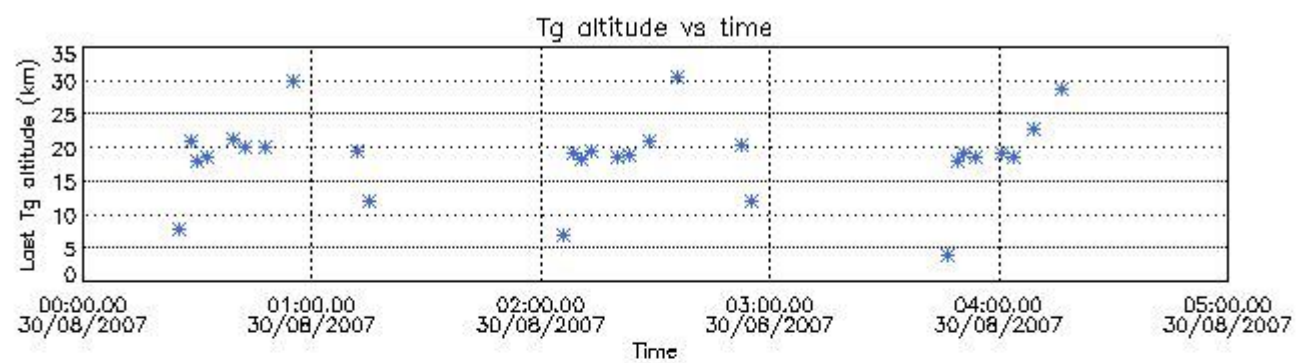
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



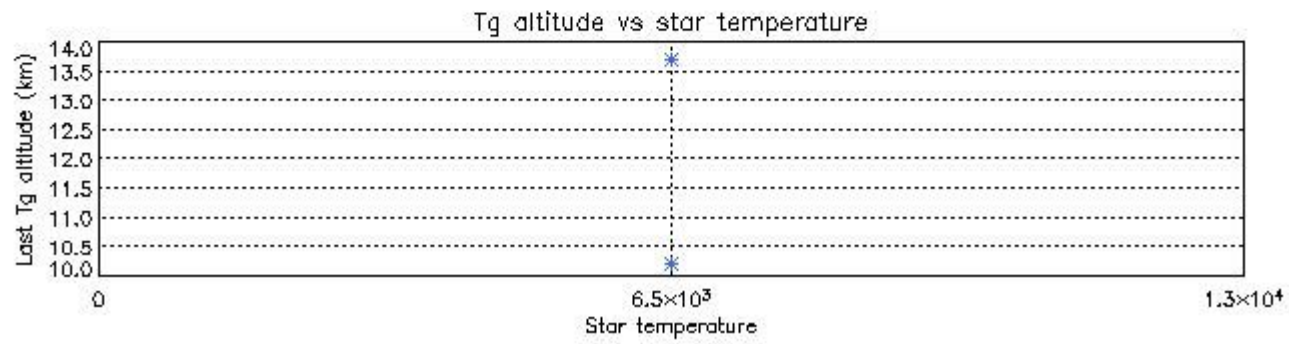
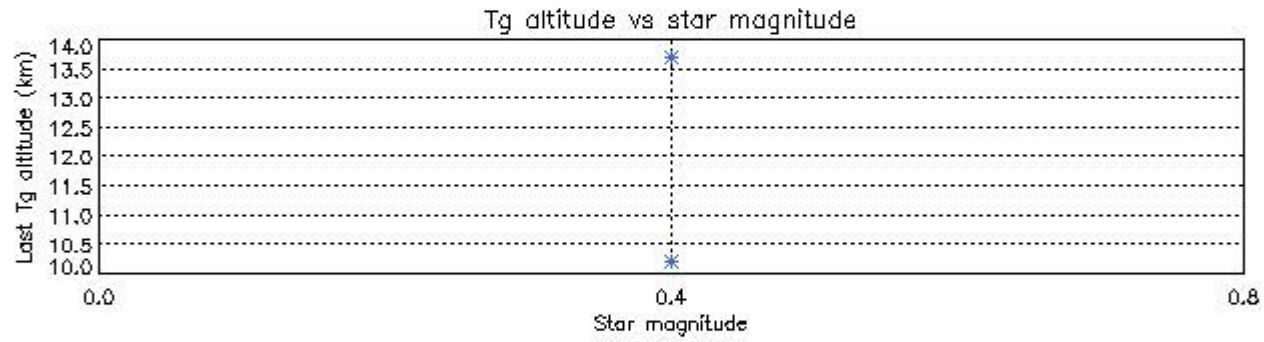
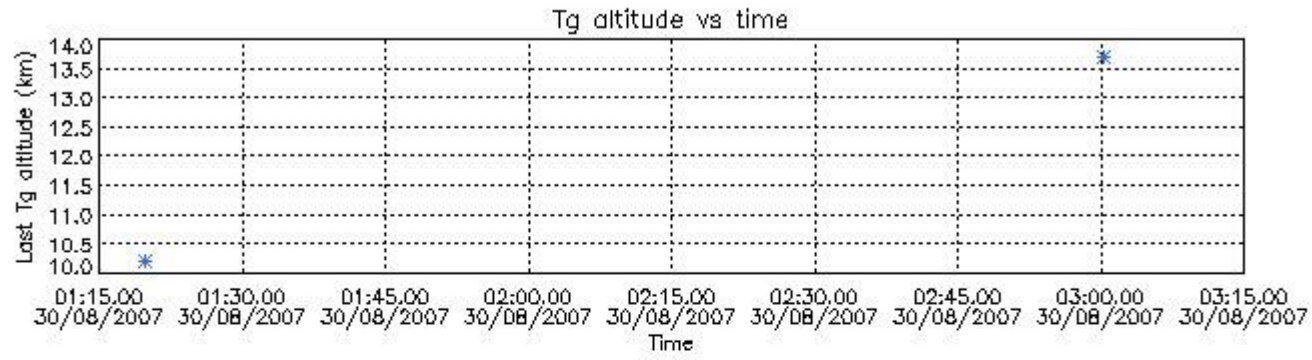
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

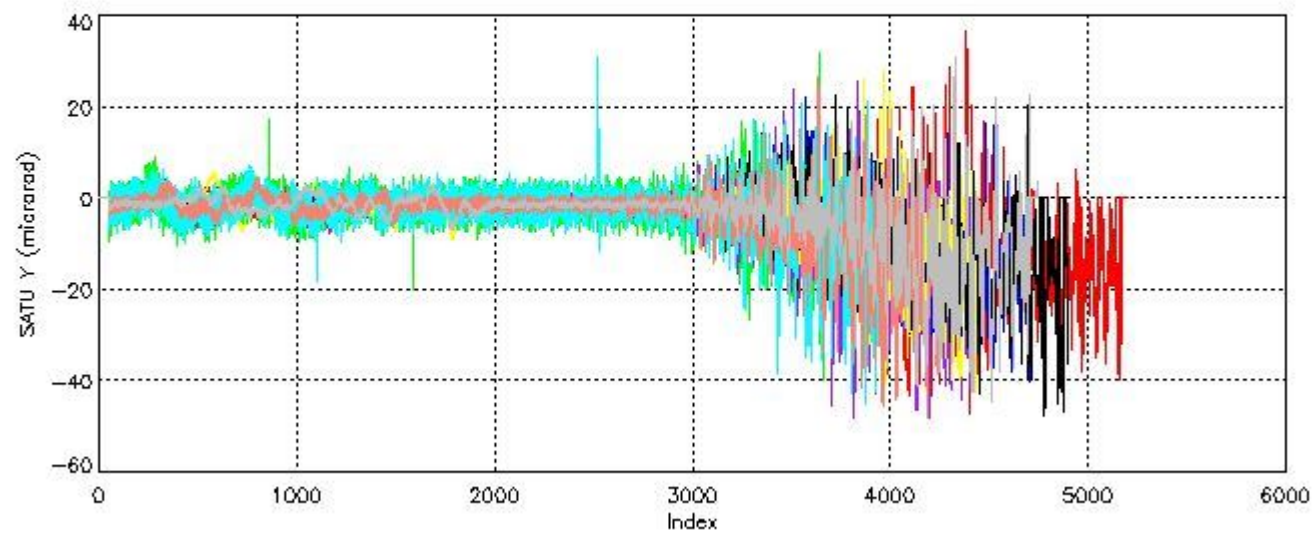
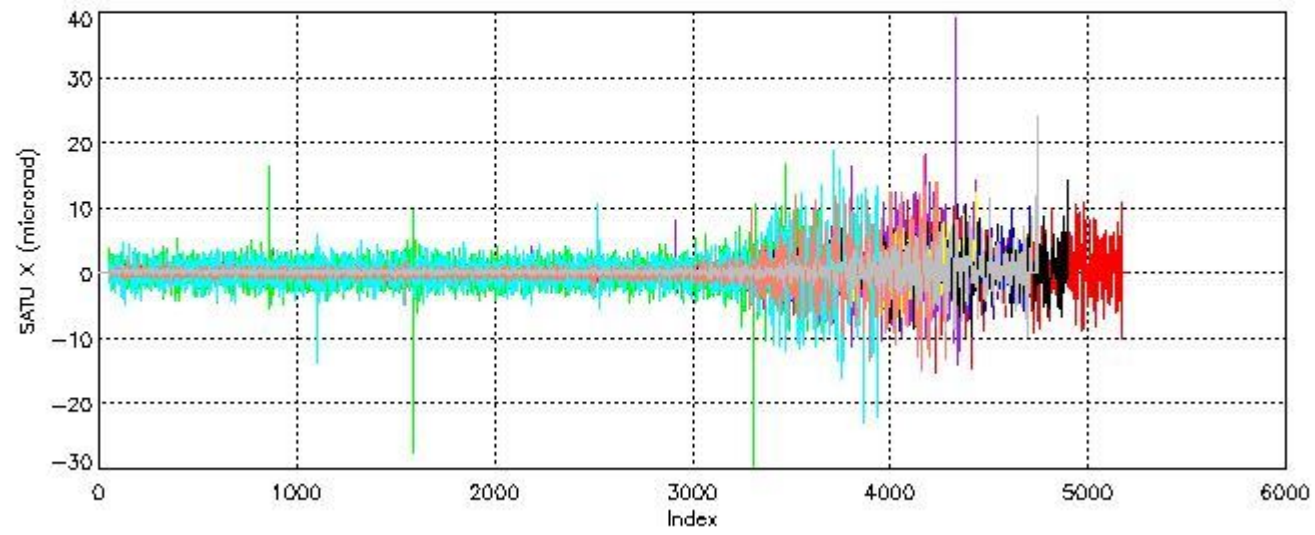


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.14929	-1.0501	0.13545	-1.2788
St. deviation:	0.56329	2.0641	0.67863	1.8728
Maximum:	16.300	17.000	4.0000	6.4000
Minimum:	-5.4000	-10.400	-3.2000	-8.7000

Number of data:	8500.0	8500.0	23550.	23550.
-----------------	--------	--------	--------	--------

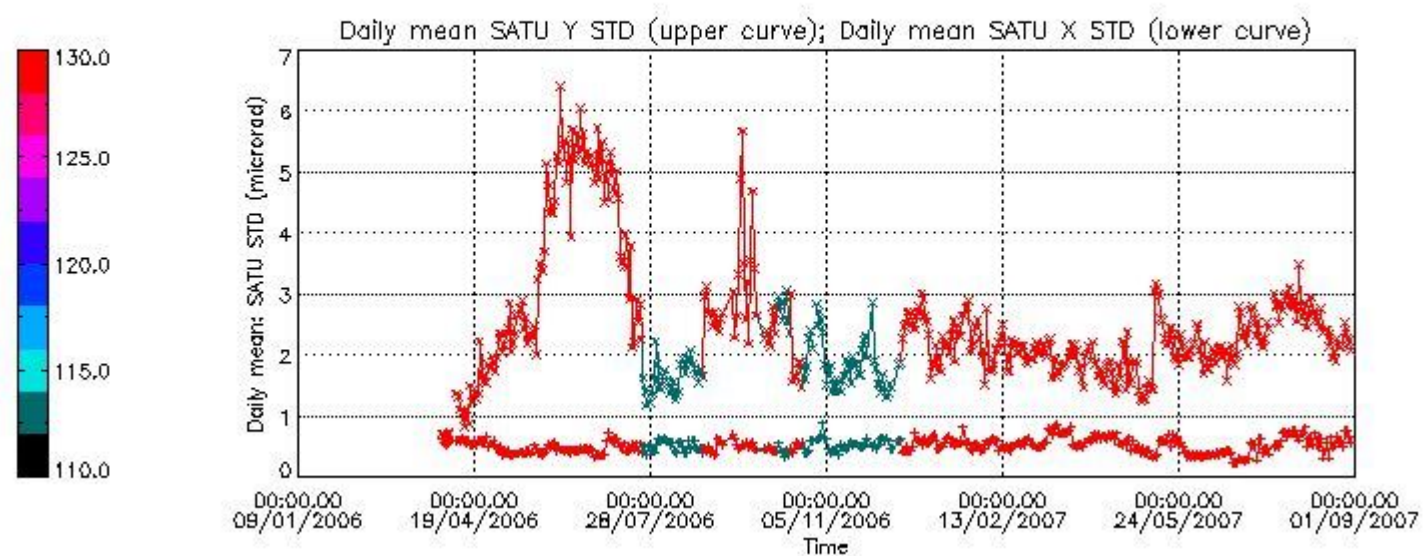
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

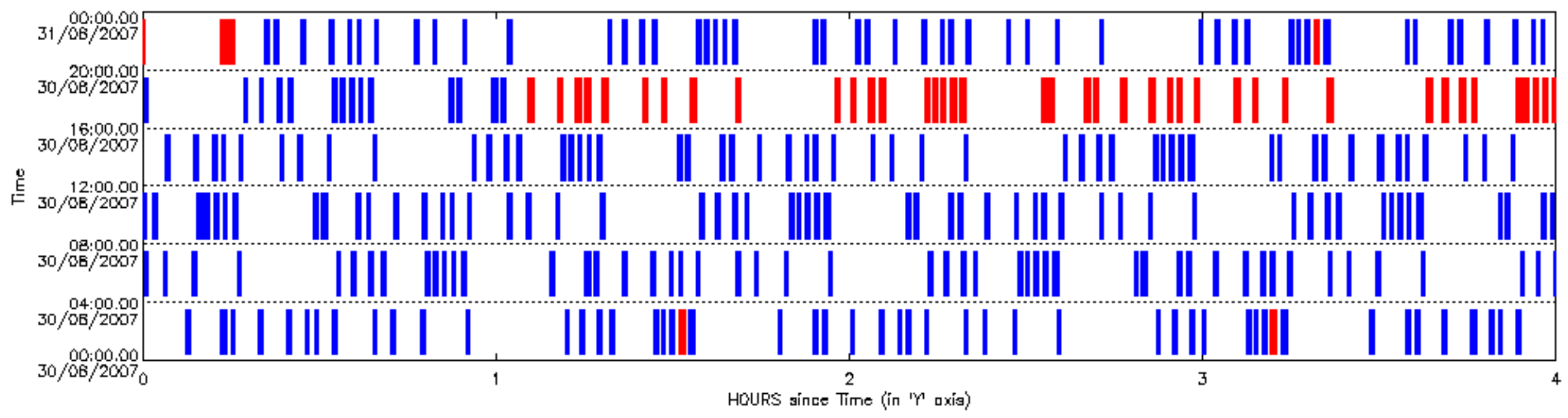
Lower curve: STD of SATU X axis

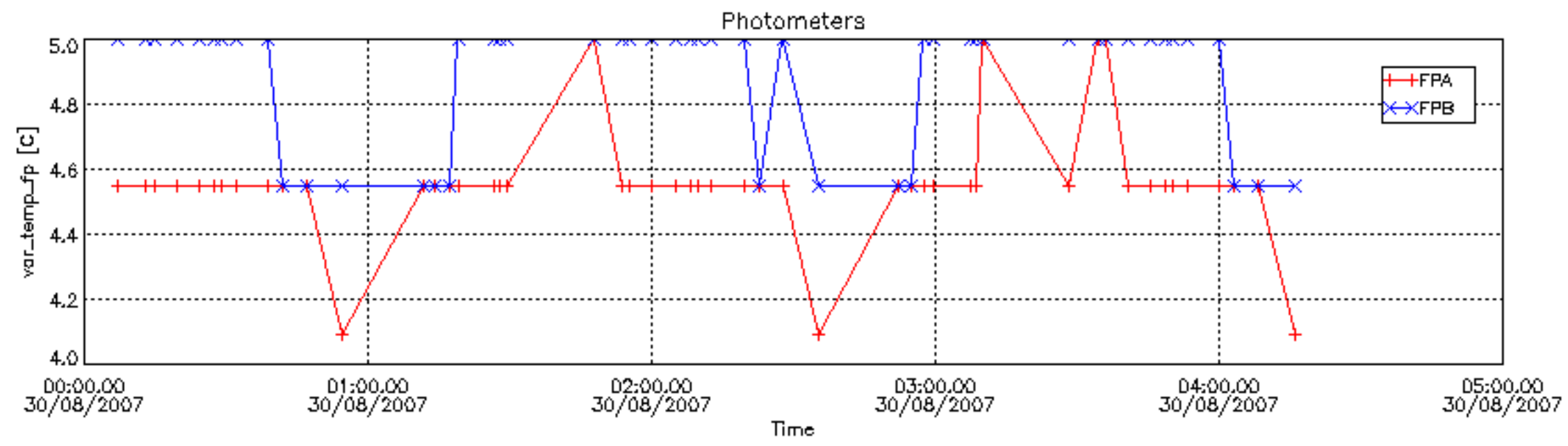
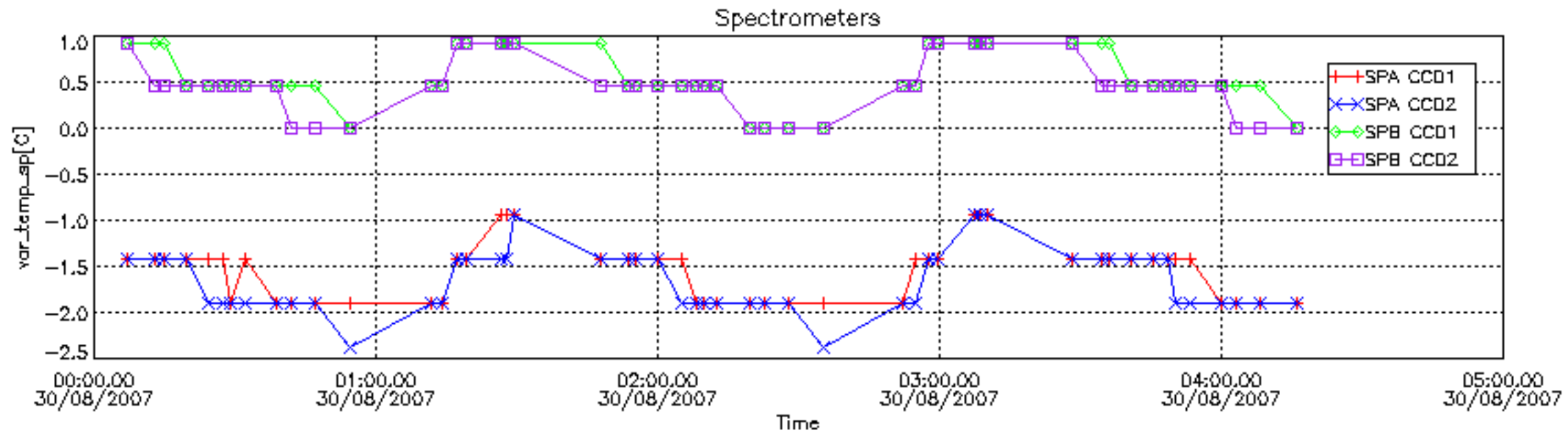


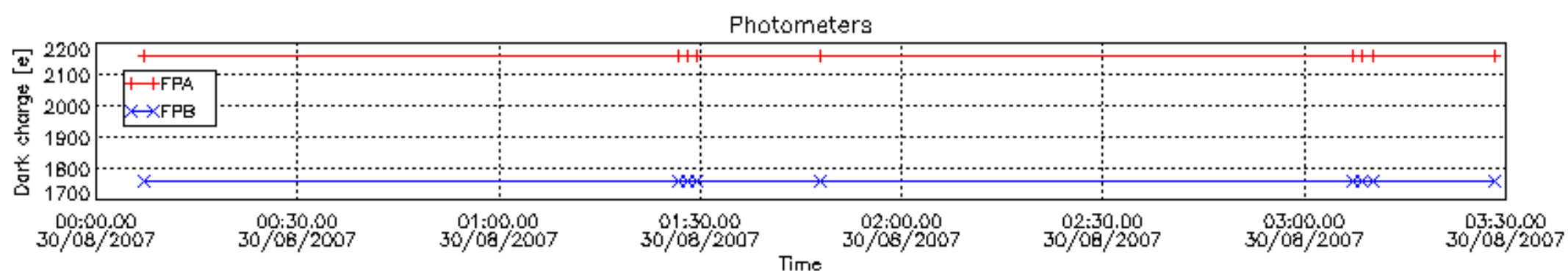
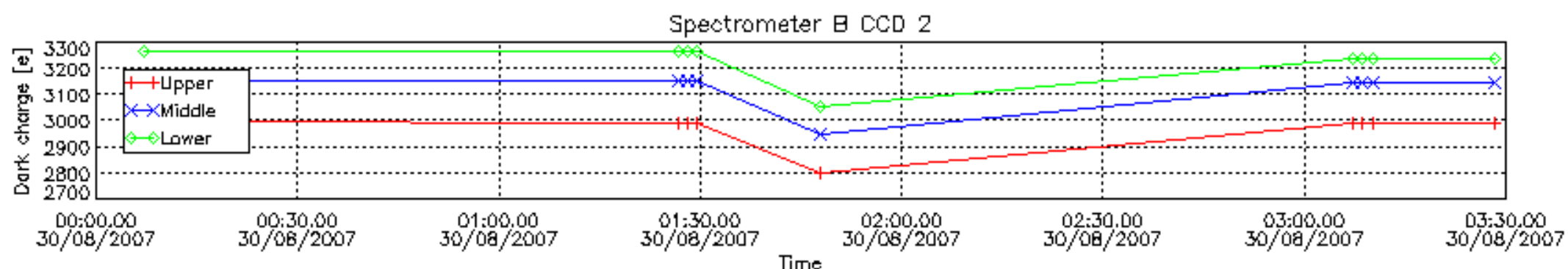
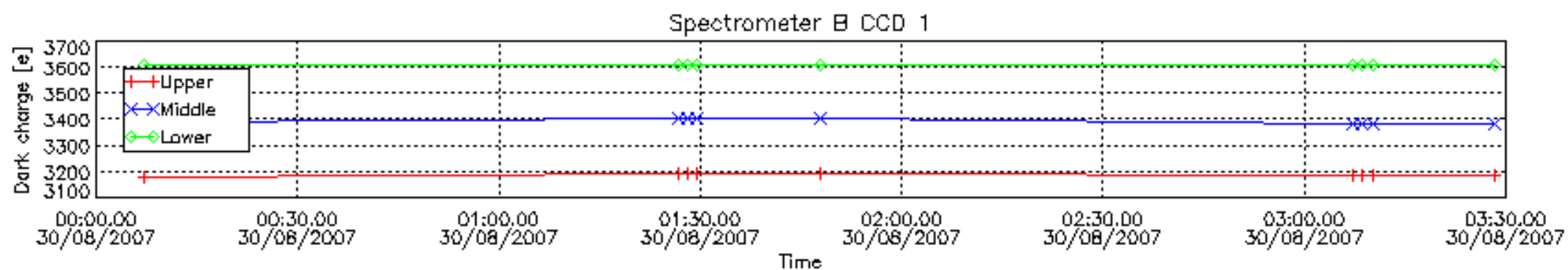
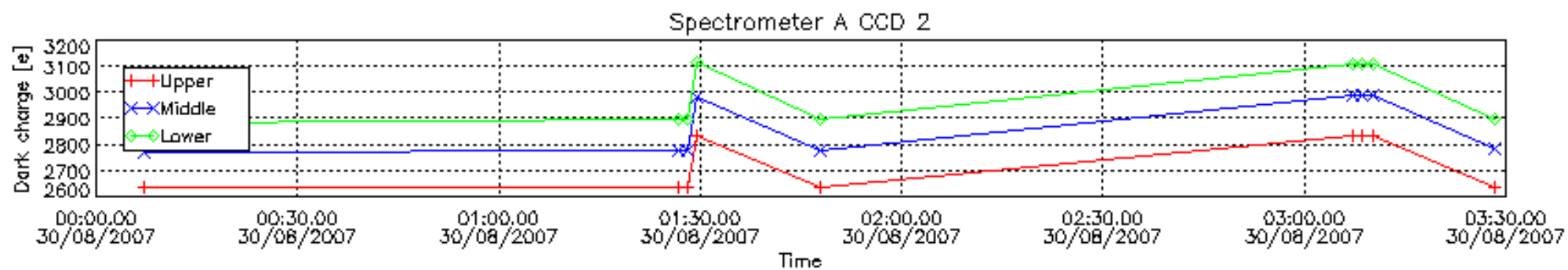
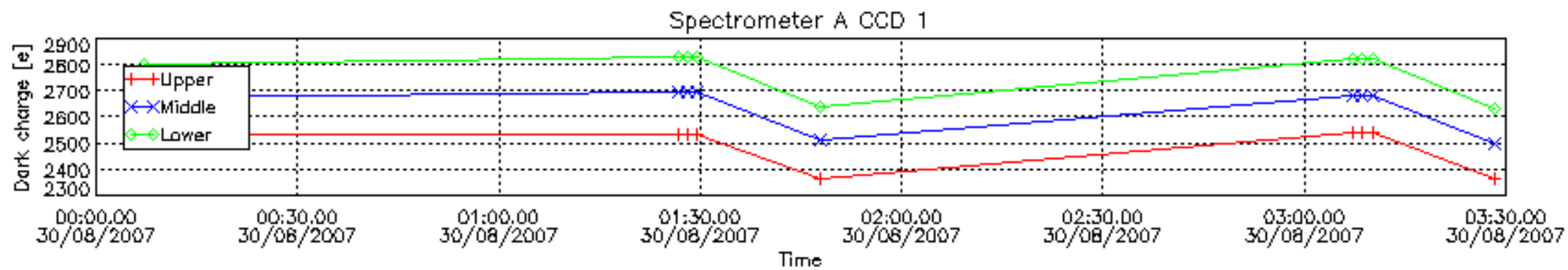
8. Auxiliary Data Files used for the production reported in section 2.4

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

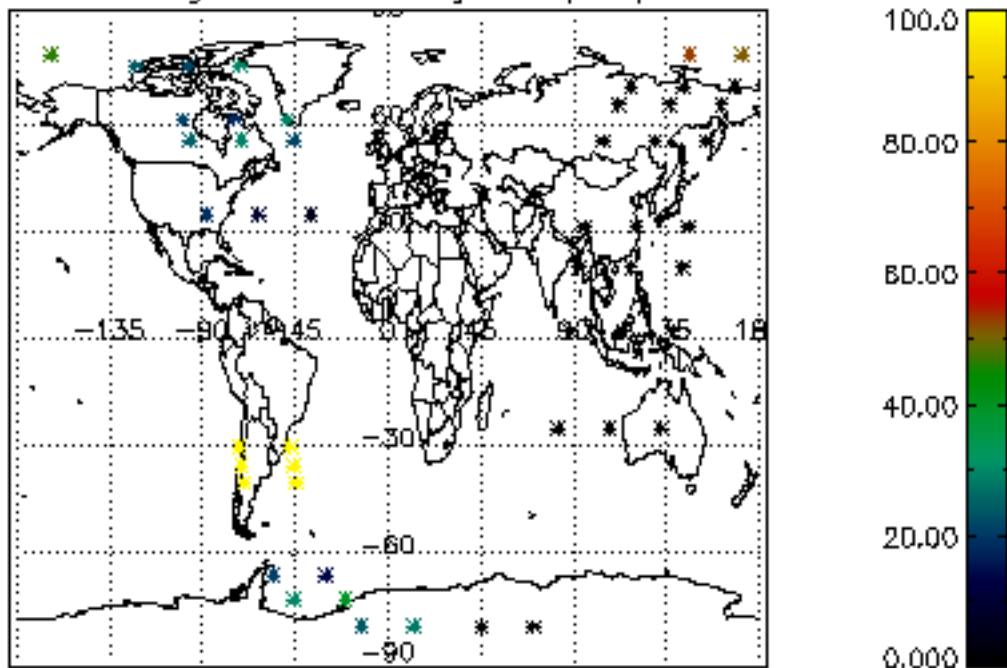
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070822_085350_20070820_000000_20100101_000000	1	30-AUG-2007 00:07:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	30-AUG-2007 00:07:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-AUG-2007 00:07:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	30-AUG-2007 00:07:09
ECMWF_FILE	AUX_ECF_AXNECM20070829_062111_20070829_210000_20070830_090000	1	30-AUG-2007 00:07:09
OPTIONAL_ECMWF_FILE	MISSING	1	30-AUG-2007 00:07:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070829_215853_000057382061_00129_28740_4069.N1	1	30-AUG-2007 00:07:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070829_233950_000057382061_00130_28741_4070.N1	17	30-AUG-2007 01:26:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070830_012047_000041442061_00131_28742_4071.N1	32	30-AUG-2007 02:52:10



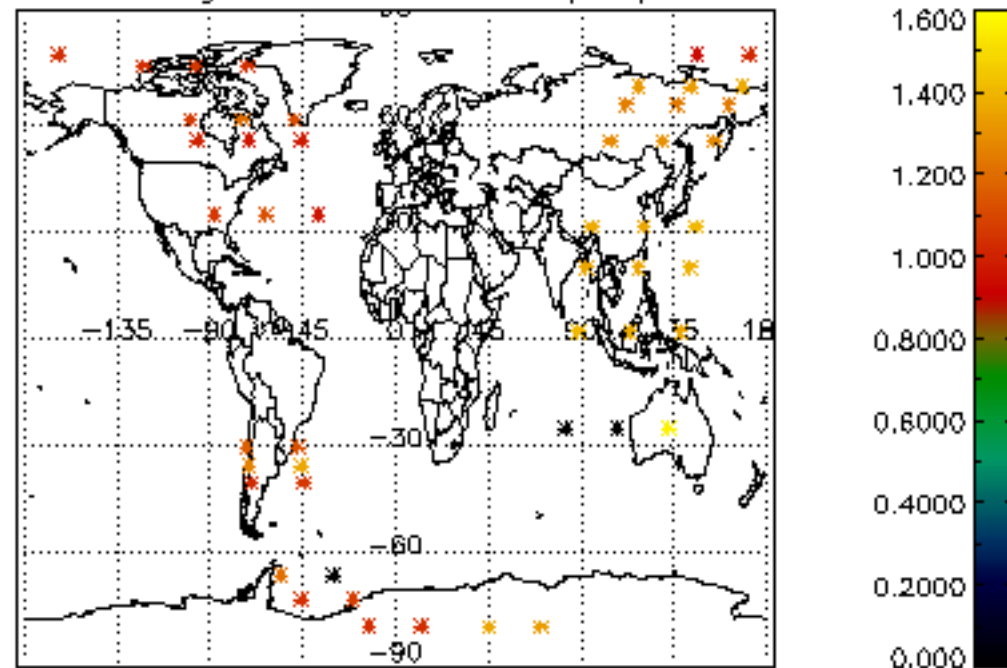




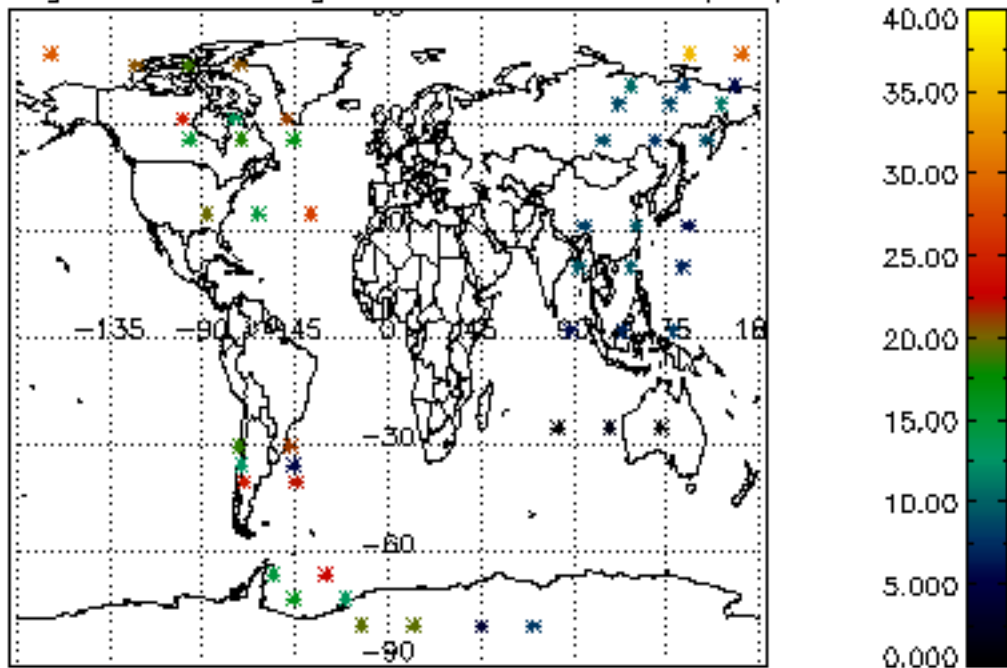
Percentage of cosmic ray hits per profile



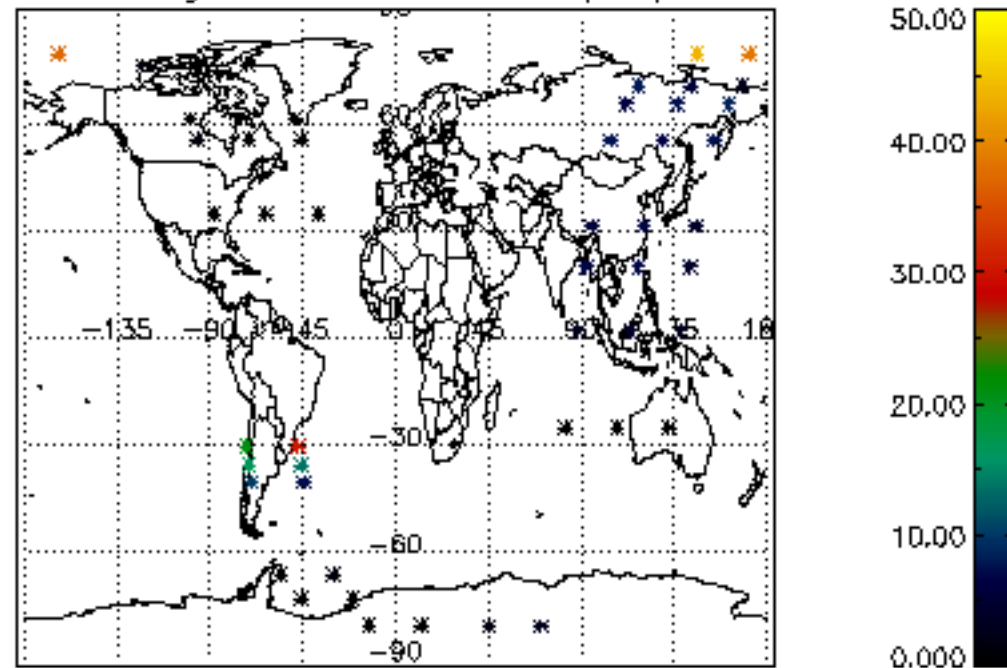
Percentage of datation errors per profile



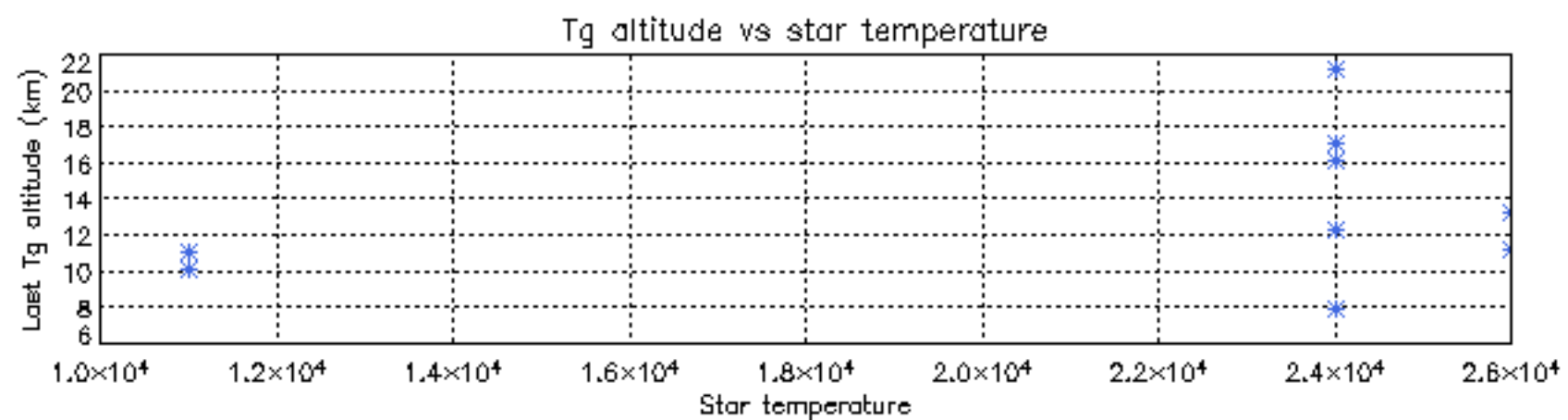
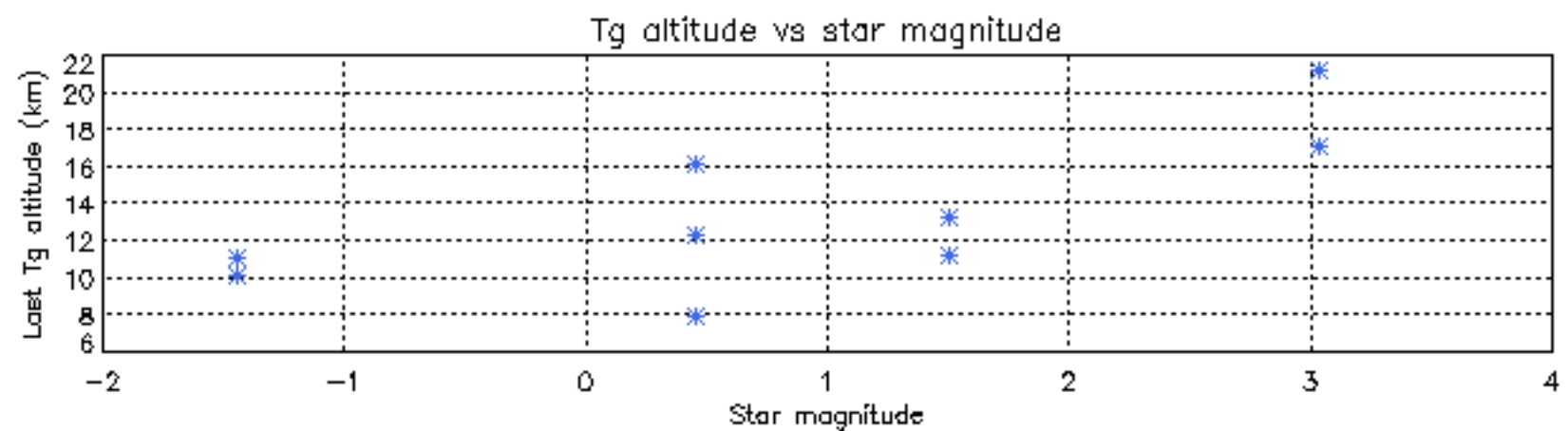
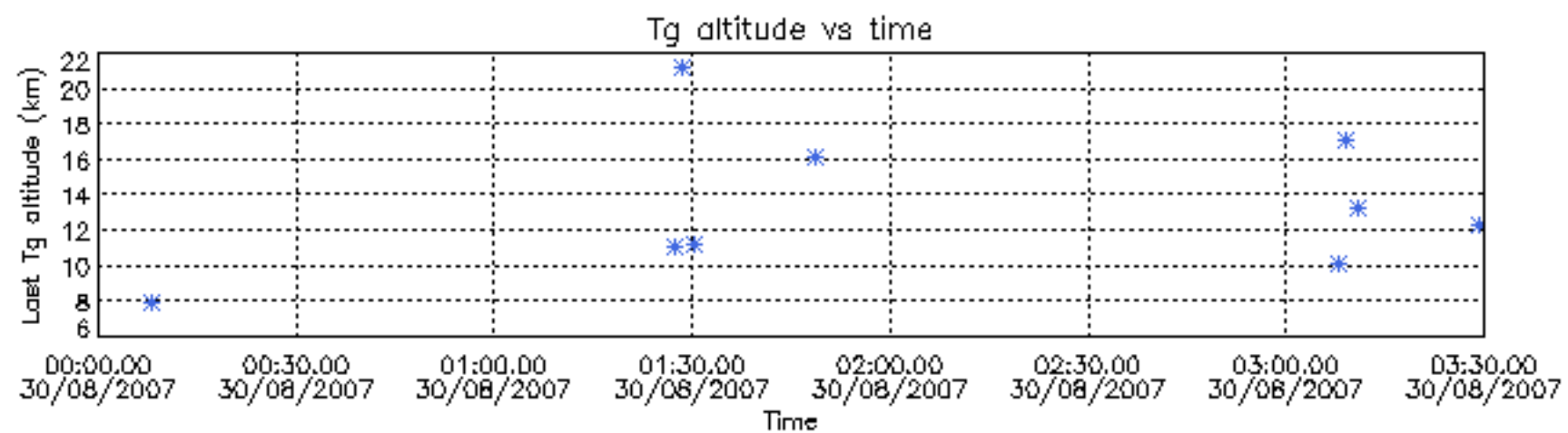
Percentage of star falling outside central band per profile



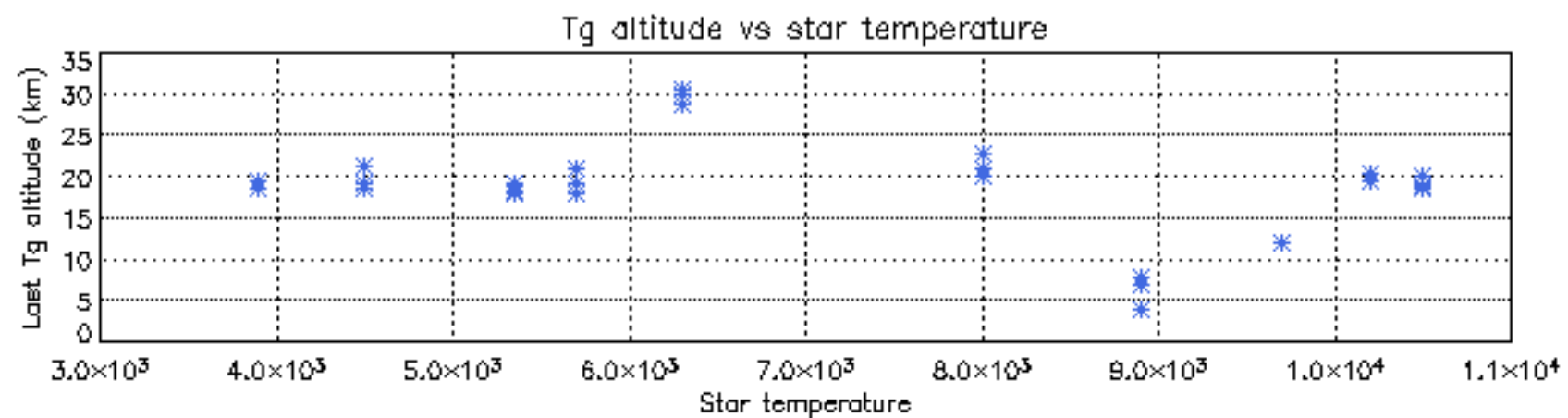
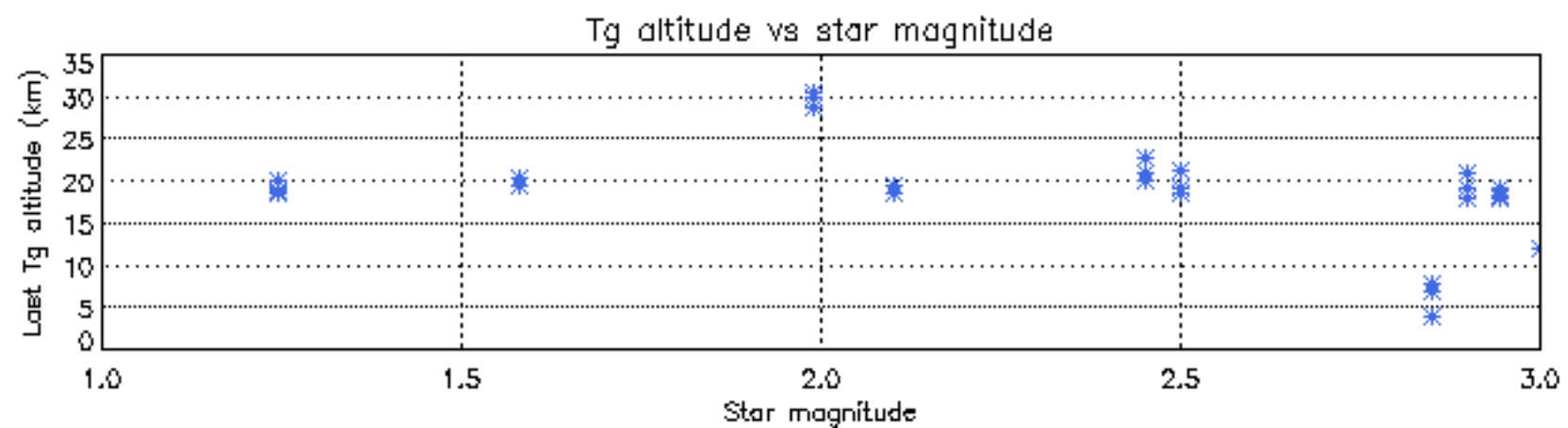
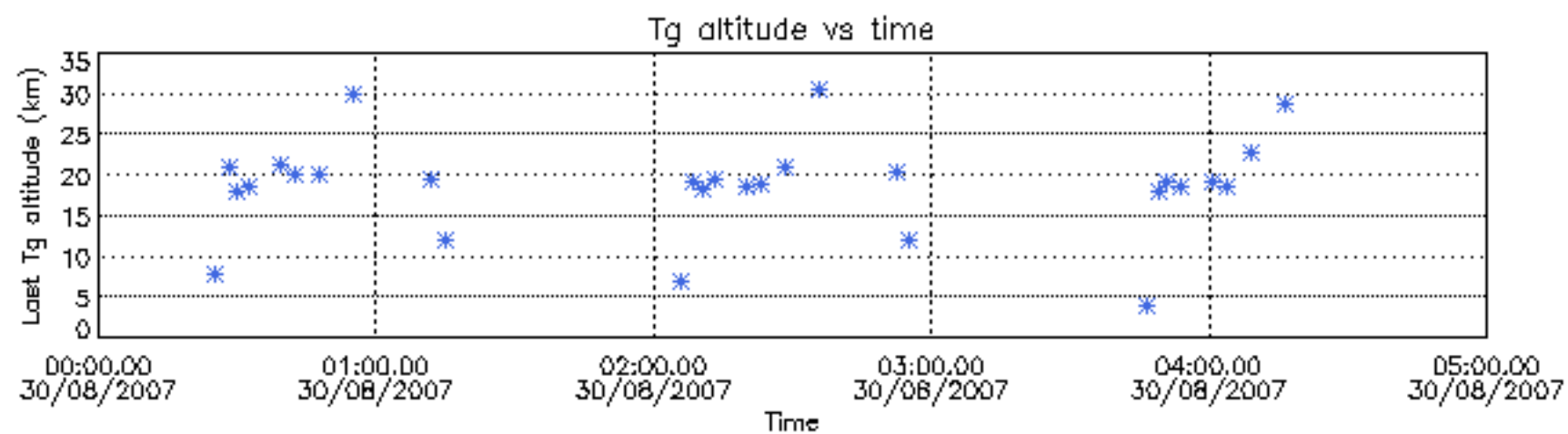
Percentage of saturation errors per profile



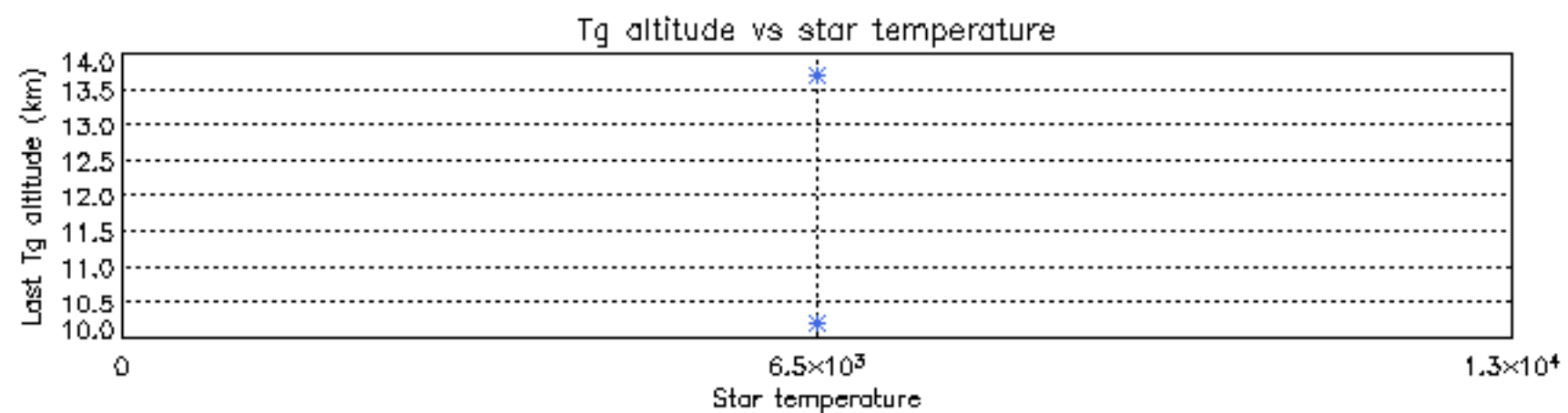
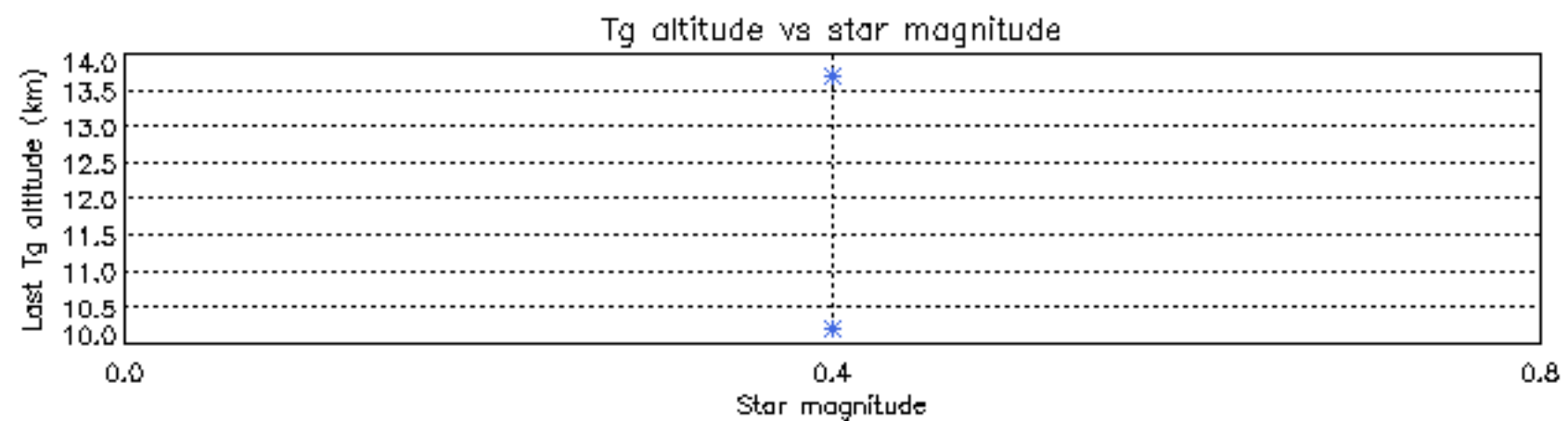
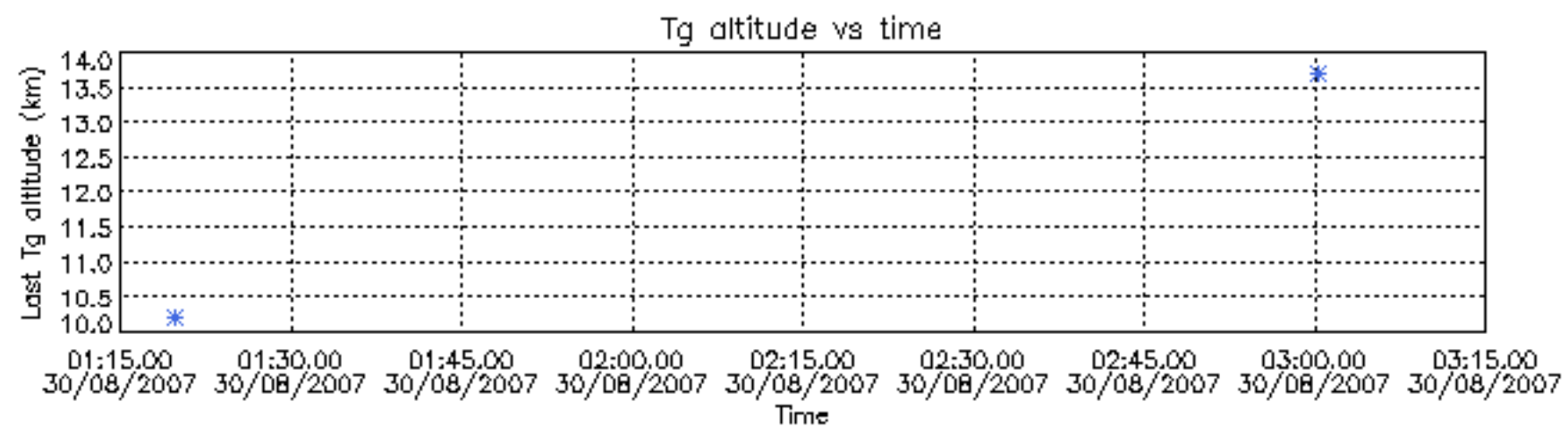
Tangent altitude at which the star is lost

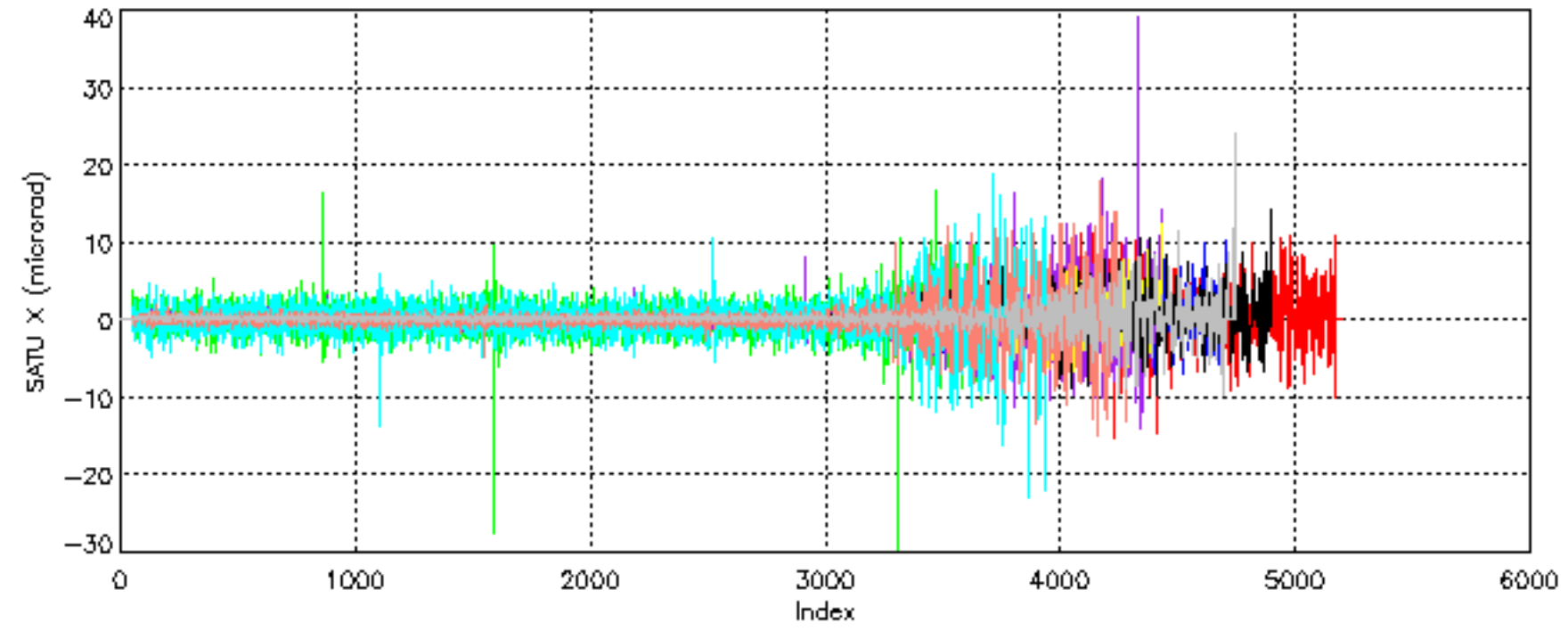


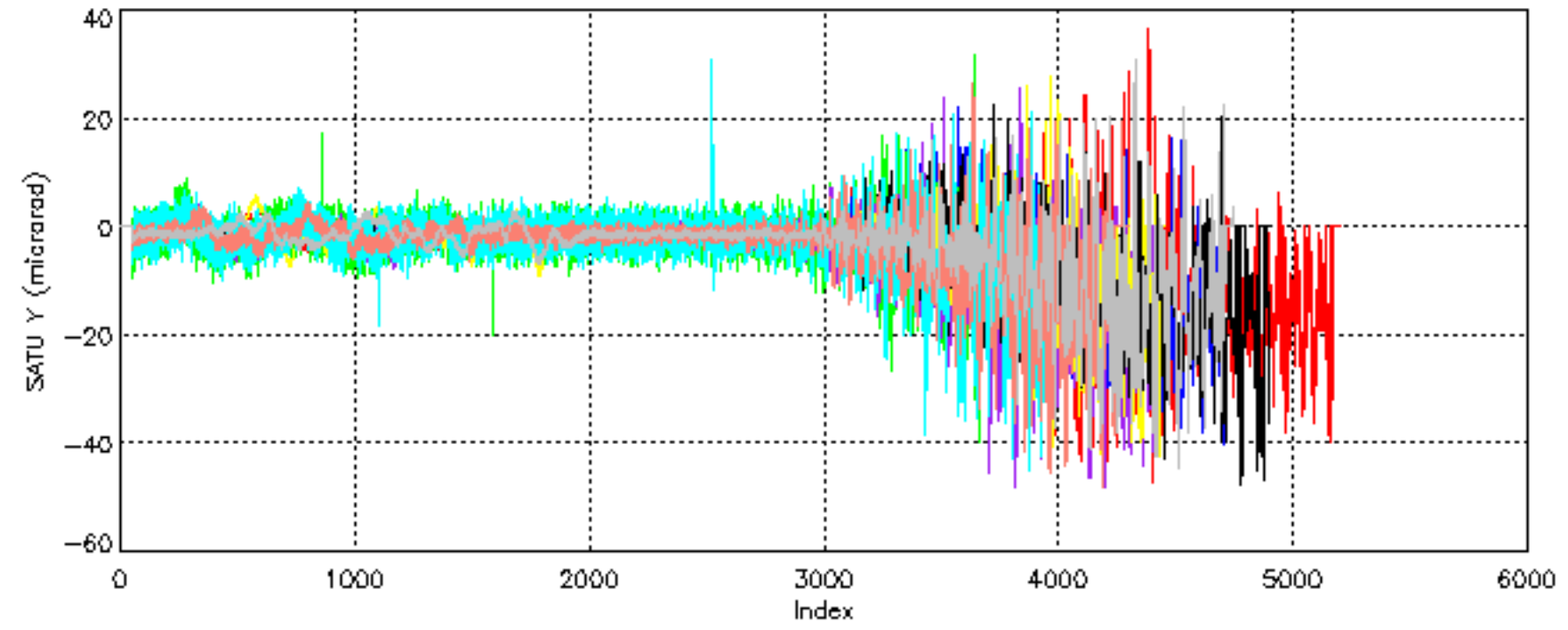
Tangent altitude at which the star is lost

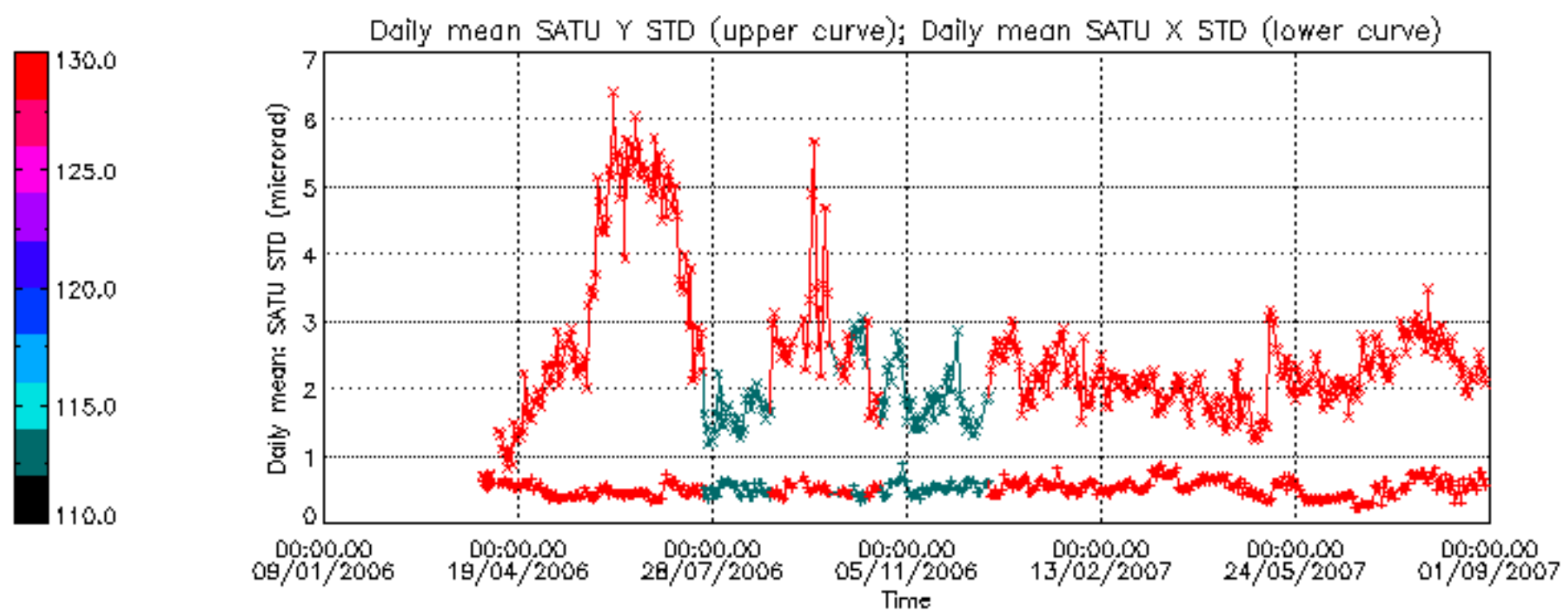


Tangent altitude at which the star is lost









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 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
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 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
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 7; -781.2; 01-AUG-2007 03:17:08; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;28328
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 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
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 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
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 21; 3285.2; 01-AUG-2007 04:24:55; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;28329
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 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
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 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
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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
10; 1557.2; 01-AUG-2007 22:22:42; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;28340
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17; 4347.5; 01-AUG-2007 23:09:12; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28340
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22; 5256.8; 01-AUG-2007 23:24:22; Dark ; 39.5; 47; 2Bet CMA ; 1.98; 28000;occ; 79; 0;28340
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6; 721.5; 01-AUG-2007 23:49:22; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28341
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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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21; 5257.0; 02-AUG-2007 01:04:58; Dark ; 40.5; 47; 2Bet CMA ; 1.98; 28000;occ; 81; 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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 18; 2801.6; 03-AUG-2007 06:34:49; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;28359
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3; 2573.7; 04-AUG-2007 09:20:36; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;28375
4; 2804.8; 04-AUG-2007 09:24:27; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;28375
5; 3297.7; 04-AUG-2007 09:32:40; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;28375
6; 3440.6; 04-AUG-2007 09:35:03; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28375
7; 4215.5; 04-AUG-2007 09:47:58; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;28375
8; 4351.7; 04-AUG-2007 09:50:14; Bright; 54.0; 107; 37The Aur ; 2.65; 11000;occ; 108; 0;28375
9; 4870.3; 04-AUG-2007 09:58:53; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;28375
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11; 5120.3; 04-AUG-2007 10:03:03; Dark ; 40.0; 125; 44Iot Ori ; 2.77; 30000;occ; 80; 0;28375

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 18; 6772.2; 04-AUG-2007 10:30:34; Dark ; 38.5; 148; Alp Tuc ; 2.88; 4100;occ; 77; 0;28375
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 20; 7456.5; 04-AUG-2007 10:41:59; Dark ; 44.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 88; 0;28375
 21; 7599.1; 04-AUG-2007 10:44:21; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;28375

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 4; 3298.0; 04-AUG-2007 11:13:16; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;28376
 5; 3440.6; 04-AUG-2007 11:15:39; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28376
 6; 4215.6; 04-AUG-2007 11:28:34; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;28376
 7; 4351.6; 04-AUG-2007 11:30:50; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;28376
 8; 4870.7; 04-AUG-2007 11:39:29; Dark ; 48.0; 14; 58Alp Ori ; 0.87; 3000;occ; 96; 0;28376
 9; 5039.8; 04-AUG-2007 11:42:18; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;28376
 10; 5120.6; 04-AUG-2007 11:43:39; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;28376
 11; 5228.5; 04-AUG-2007 11:45:27; Dark ; 36.0; 1; 9Alp CMa ; -1.44; 11000;occ; 72; 0;28376
 12; 5320.7; 04-AUG-2007 11:46:59; Dark ; 39.0; 101; 11Alp Lep ; 2.58; 7000;occ; 78; 0;28376
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 13; 5321.2; 04-AUG-2007 13:27:35; Dark ; 43.0; 101; 11Alp Lep ; 2.58; 7000;occ; 86; 0;28377
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 5; 3298.7; 04-AUG-2007 14:34:29; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;28378
 6; 3440.6; 04-AUG-2007 14:36:51; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28378
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 12; 5229.0; 04-AUG-2007 15:06:39; Dark ; 35.0; 1; 9Alp CMa ; -1.44; 11000;occ; 70; 0;28378
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5; 2686.6; 04-AUG-2007 17:45:28; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;28380
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13; 5194.9; 04-AUG-2007 18:27:17; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;28380
14; 5322.7; 04-AUG-2007 18:29:25; Dark ; 43.0; 101; 11Alp Lep ; 2.58; 7000;occ; 86; 0;28380
15; 5481.1; 04-AUG-2007 18:32:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28380
16; 5571.8; 04-AUG-2007 18:33:34; Dark ; 39.0; 108; Alp Col ; 2.65; 15200;occ; 78; 0;28380
17; 6375.5; 04-AUG-2007 18:46:57; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;28380
18; 6473.8; 04-AUG-2007 18:48:36; Dark ; 35.0; 135; Bet Hyi ; 2.82; 5800;occ; 70; 0;28380
19; 6774.3; 04-AUG-2007 18:53:36; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;28380
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4; 342.2; 05-AUG-2007 01:29:24; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;28385
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7; 945.0; 05-AUG-2007 01:39:26; Dark ; 30.0; 31; Alp Gru ; 1.73; 15200;occ; 60; 0;28385
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21; 7357.0; 30-AUG-2007 08:42:27; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28746
22; 7651.5; 30-AUG-2007 08:47:22; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28746
23; 7841.2; 30-AUG-2007 08:50:31; Bright; 16.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 32; 0;28746

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3; 2077.4; 30-AUG-2007 08:55:04; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;28747
4; 2486.6; 30-AUG-2007 09:01:53; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28747

5; 2677.5; 30-AUG-2007 09:05:04; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;28747
6; 2979.0; 30-AUG-2007 09:10:05; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28747
7; 3435.2; 30-AUG-2007 09:17:41; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;28747
8; 4448.5; 30-AUG-2007 09:34:35; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28747
9; 4605.1; 30-AUG-2007 09:37:11; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28747
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11; 4905.8; 30-AUG-2007 09:42:12; Dark ; 41.0; 8; 10Alp CMi ; 0.40; 6500;occ; 82; 0;28747
12; 5356.6; 30-AUG-2007 09:49:43; Dark ; 52.0; 1; 9Alp CMa ; -1.44; 11000;occ; 104; 0;28747
13; 5436.8; 30-AUG-2007 09:51:03; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;28747
14; 5525.1; 30-AUG-2007 09:52:31; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28747
15; 5620.3; 30-AUG-2007 09:54:07; Dark ; 42.5; 177; 1Zet CMa ; 3.02; 26000;occ; 85; 0;28747
16; 5716.5; 30-AUG-2007 09:55:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28747
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18; 6622.2; 30-AUG-2007 10:10:48; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28747
19; 6980.2; 30-AUG-2007 10:16:46; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;28747
20; 7077.5; 30-AUG-2007 10:18:24; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28747
21; 7357.2; 30-AUG-2007 10:23:03; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28747
22; 7651.6; 30-AUG-2007 10:27:58; Dark ; 38.0; 142; 49Del Cap ; 2.85; 8900;occ; 76; 0;28747

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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
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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
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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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3; 1896.7; 30-AUG-2007 12:13:15; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28749
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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
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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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3; 1896.6; 30-AUG-2007 13:53:50; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28750

4; 2077.3; 30-AUG-2007 13:56:51; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28750
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
11; 4782.3; 30-AUG-2007 14:41:56; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;28750
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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16; 5622.3; 30-AUG-2007 14:55:56; Dark ; 41.0; 177; 1Zet CMa ; 3.02; 26000;occ; 82; 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
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7; 2677.6; 30-AUG-2007 15:47:27; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28751
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
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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
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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
14; 5359.6; 30-AUG-2007 18:12:45; Dark ; 51.5; 1; 9Alp CMa ; -1.44; 11000;occ; 103; 0;28752
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16; 5527.6; 30-AUG-2007 18:15:33; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28752
17; 5623.8; 30-AUG-2007 18:17:10; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28752
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21; 6983.4; 30-AUG-2007 18:39:49; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;28752
22; 7079.2; 30-AUG-2007 18:41:25; Dark ; 39.5; 63; Bet Gru ; 2.15; 2800;occ; 79; 0;28752

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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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6; 2077.0; 30-AUG-2007 18:58:39; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28753
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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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
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