

# GOMOS Daily Report 30-DEC-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	01JAN2008 06:13:40
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (30DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (31DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	1

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

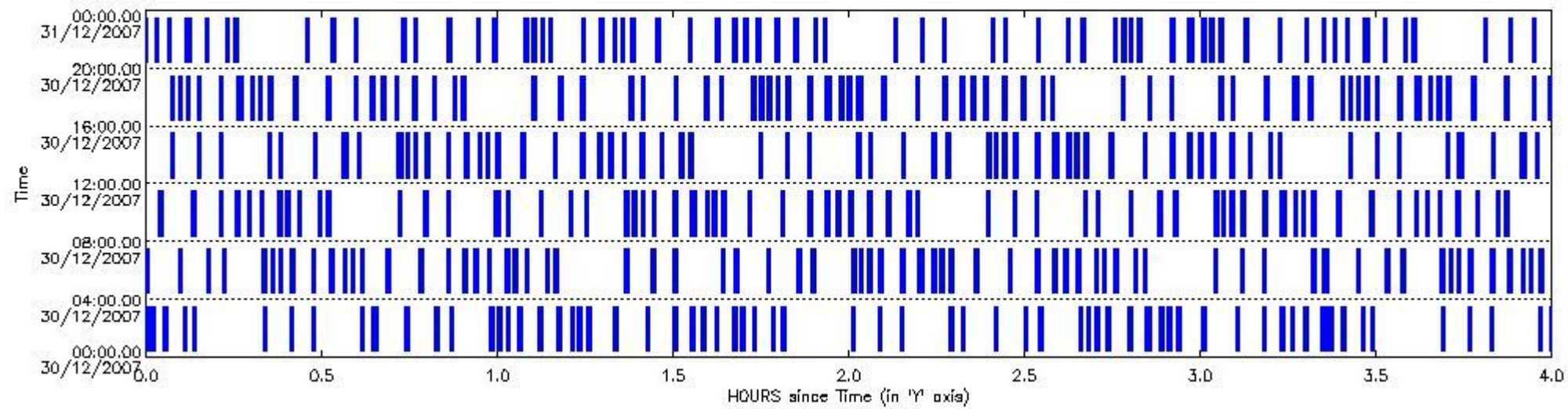
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

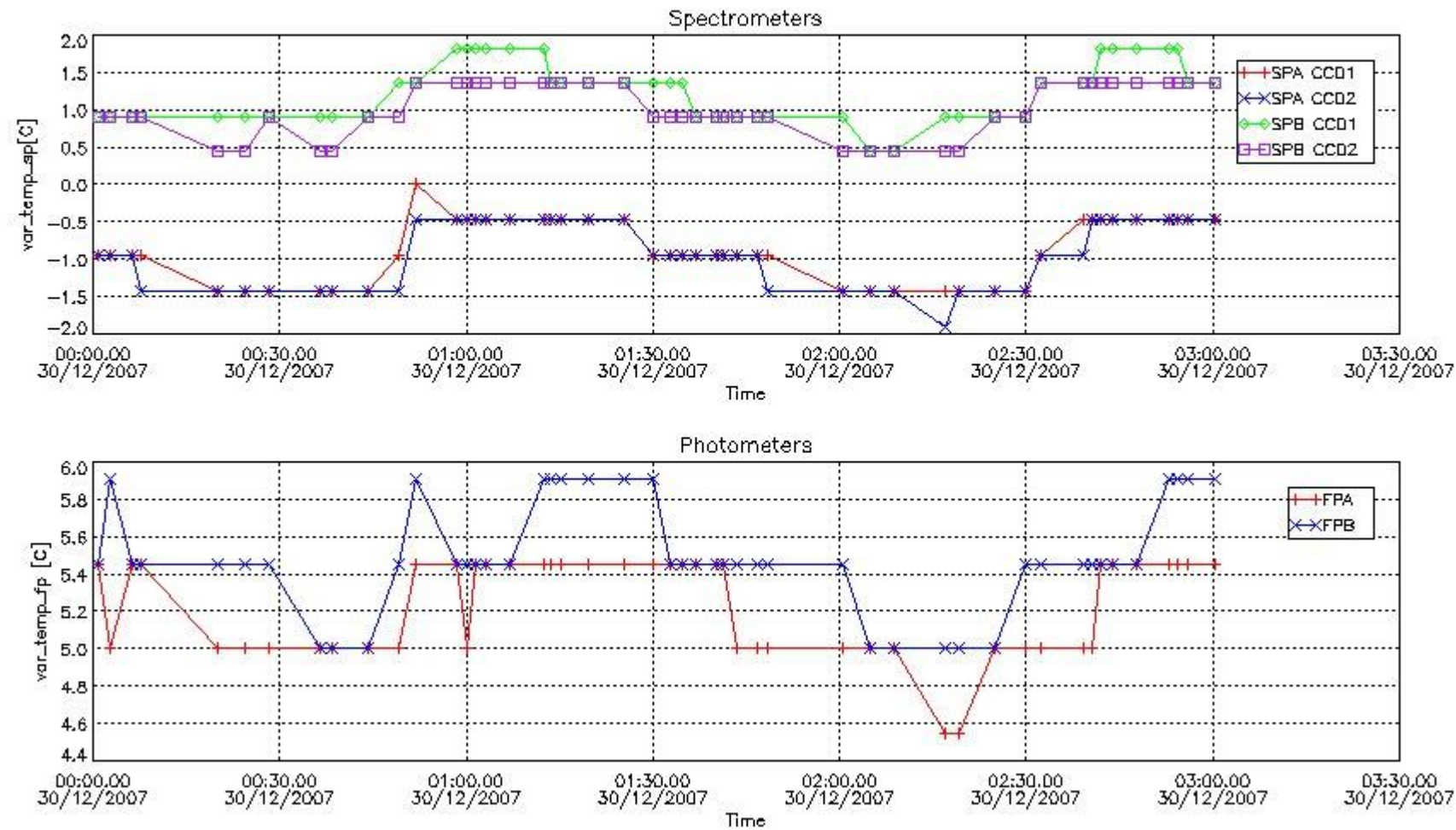
No missing products.

### 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_1PNPDE20071230_000047_000000462064_00374_30488_6273.N1	30-DEC-2007 00:00:47	Bright	45.500	176	23Zet Tau	3.0200	22000.	91	30488	No
2	GOM_TRA_1PNPDE20071230_000252_000000392064_00374_30488_6274.N1	30-DEC-2007 00:02:52	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	30488	No
3	GOM_TRA_1PNPDE20071230_000617_000000342064_00374_30488_6275.N1	30-DEC-2007 00:06:17	Bright	34.000	149	45Eps Per	2.8880	30000.	68	30488	No
4	GOM_TRA_1PNPDE20071230_000748_000000402064_00374_30488_6276.N1	30-DEC-2007 00:07:48	Bright	40.000	6	13Alp Aur	0.080000	3400.0	80	30488	No
5	GOM_TRA_1PNPDE20071230_001954_000000332064_00374_30488_6277.N1	30-DEC-2007 00:19:54	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	30488	No
6	GOM_TRA_1PNPDE20071230_002426_000000352064_00374_30488_6278.N1	30-DEC-2007 00:24:26	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	30488	No
7	GOM_TRA_1PNPDE20071230_002811_000000352064_00374_30488_6279.N1	30-DEC-2007 00:28:11	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	30488	No
8	GOM_TRA_1PNPDE20071230_003628_000000372064_00374_30488_6280.N1	30-DEC-2007 00:36:28	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	30488	No
9	GOM_TRA_1PNPDE20071230_003831_000000542064_00374_30488_6281.N1	30-DEC-2007 00:38:31	Bright	54.000	67	5Alp CrB	2.2210	11000.	108	30488	No
10	GOM_TRA_1PNPDE20071230_004412_000000352064_00374_30488_6282.N1	30-DEC-2007 00:44:12	Bright	35.000	102	24Alp Ser	2.6000	4250.0	70	30488	No
11	GOM_TRA_1PNPDE20071230_004910_000000552064_00374_30488_6283.N1	30-DEC-2007 00:49:10	Bright	55.000	104	27Bet Lib	2.6140	13100.	110	30488	No
12	GOM_TRA_1PNPDE20071230_005145_000000422064_00374_30488_6421.N1	30-DEC-2007 00:51:45	Twilight_stray	42.000	122	9Alp2Lib	2.7470	9700.0	84	30488	Yes

13	GOM_TRA_1PNPDE20071230_005834_000000422064_00374_30488_6422.N1	30-DEC-2007 00:58:34	Dark	42.000	54	5The Cen	2.0550	4500.0	84	30488	No
14	GOM_TRA_1PNPDE20071230_010000_000000402064_00374_30488_6423.N1	30-DEC-2007 01:00:00	Dark	39.500	78	Alp Lup	2.3040	28000.	79	30488	No
15	GOM_TRA_1PNPDE20071230_010123_000000392064_00374_30488_6424.N1	30-DEC-2007 01:01:23	Dark	39.000	95	Zet Cen	2.5450	26000.	78	30488	No
16	GOM_TRA_1PNPDE20071230_010316_000000502064_00374_30488_6425.N1	30-DEC-2007 01:03:16	Dark	50.000	4	Alp1Cen	-0.010000	5800.0	100	30488	No
17	GOM_TRA_1PNPDE20071230_010659_000000432064_00375_30489_6426.N1	30-DEC-2007 01:06:59	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	30489	No
18	GOM_TRA_1PNPDE20071230_011222_000000382064_00375_30489_6427.N1	30-DEC-2007 01:12:22	Dark	37.500	29	Bet Car	1.6720	10200.	75	30489	No
19	GOM_TRA_1PNPDE20071230_011339_000000412064_00375_30489_6428.N1	30-DEC-2007 01:13:39	Dark	41.000	71	lot Car	2.2460	7700.0	82	30489	No
20	GOM_TRA_1PNPDE20071230_011517_000000482064_00375_30489_6429.N1	30-DEC-2007 01:15:17	Dark	48.000	41	Eps Car	1.8600	4100.0	96	30489	No
21	GOM_TRA_1PNPDE20071230_011937_000000472064_00375_30489_6430.N1	30-DEC-2007 01:19:37	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	30489	No
22	GOM_TRA_1PNPDE20071230_012521_000000392064_00375_30489_6431.N1	30-DEC-2007 01:25:21	Straylight	39.000	108	Alp Col	2.6520	15200.	78	30489	No
23	GOM_TRA_1PNPDE20071230_013000_000000402064_00375_30489_6432.N1	30-DEC-2007 01:30:00	Straylight	40.000	101	11Alp Lep	2.5820	7000.0	80	30489	No
24	GOM_TRA_1PNPDE20071230_013253_000000472064_00375_30489_6433.N1	30-DEC-2007 01:32:53	Straylight	47.000	7	19Bet Ori	0.10000	14000.	94	30489	No
25	GOM_TRA_1PNPDE20071230_013447_000000382064_00375_30489_6434.N1	30-DEC-2007 01:34:47	Straylight	38.000	30	46Eps Ori	1.6940	30000.	76	30489	No
26	GOM_TRA_1PNPDE20071230_013700_000000432064_00375_30489_6435.N1	30-DEC-2007 01:37:00	Twilight_stray	43.000	27	24Gam Ori	1.6360	26000.	86	30489	No
27	GOM_TRA_1PNPDE20071230_014004_000000522064_00375_30489_6436.N1	30-DEC-2007 01:40:04	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	30489	No
28	GOM_TRA_1PNPDE20071230_014122_000000552064_00375_30489_6437.N1	30-DEC-2007 01:41:22	Bright	55.000	176	23Zet Tau	3.0200	22000.	110	30489	No
29	GOM_TRA_1PNPDE20071230_014328_000000392064_00375_30489_6438.N1	30-DEC-2007 01:43:28	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	30489	No
30	GOM_TRA_1PNPDE20071230_014653_000000342064_00375_30489_6439.N1	30-DEC-2007 01:46:53	Bright	33.500	149	45Eps Per	2.8880	30000.	67	30489	No
31	GOM_TRA_1PNPDE20071230_014824_000000422064_00375_30489_6440.N1	30-DEC-2007 01:48:24	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	30489	No
32	GOM_TRA_1PNPDE20071230_020030_000000352064_00375_30489_6441.N1	30-DEC-2007 02:00:30	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30489	No
33	GOM_TRA_1PNPDE20071230_020501_000000352064_00375_30489_6442.N1	30-DEC-2007 02:05:01	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	30489	No
34	GOM_TRA_1PNPDE20071230_020847_000000342064_00375_30489_6606.N1	30-DEC-2007 02:08:47	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	30489	No
35	GOM_TRA_1PNPDE20071230_021704_000000512064_00375_30489_6607.N1	30-DEC-2007 02:17:04	Bright	51.000	133	40Zet Her	2.8070	6000.0	102	30489	No
36	GOM_TRA_1PNPDE20071230_021907_000000362064_00375_30489_6608.N1	30-DEC-2007 02:19:07	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	30489	No
37	GOM_TRA_1PNPDE20071230_022448_000000352064_00375_30489_6609.N1	30-DEC-2007 02:24:48	Bright	35.000	102	24Alp Ser	2.6000	4250.0	70	30489	No
38	GOM_TRA_1PNPDE20071230_022947_000000362064_00375_30489_6610.N1	30-DEC-2007 02:29:47	Bright	36.000	104	27Bet Lib	2.6140	13100.	72	30489	No
39	GOM_TRA_1PNPDE20071230_023221_000000442064_00375_30489_6611.N1	30-DEC-2007 02:32:21	Twilight_stray	43.500	122	9Alp2Lib	2.7470	9700.0	87	30489	No
40	GOM_TRA_1PNPDE20071230_023910_000000462064_00375_30489_6612.N1	30-DEC-2007 02:39:10	Dark	45.500	54	5The Cen	2.0550	4500.0	91	30489	No
41	GOM_TRA_1PNPDE20071230_024036_000000372064_00375_30489_6613.N1	30-DEC-2007 02:40:36	Dark	36.500	78	Alp Lup	2.3040	28000.	73	30489	No
42	GOM_TRA_1PNPDE20071230_024159_000000402064_00375_30489_6614.N1	30-DEC-2007 02:41:59	Dark	40.000	95	Zet Cen	2.5450	26000.	80	30489	No
43	GOM_TRA_1PNPDE20071230_024352_000000432064_00375_30489_6615.N1	30-DEC-2007 02:43:52	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	30489	No
44	GOM_TRA_1PNPDE20071230_024735_000000422064_00376_30490_6616.N1	30-DEC-2007 02:47:35	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	30490	No
45	GOM_TRA_1PNPDE20071230_025258_000000412064_00376_30490_6617.N1	30-DEC-2007 02:52:58	Dark	41.000	29	Bet Car	1.6720	10200.	82	30490	No
46	GOM_TRA_1PNPDE20071230_025415_000000432064_00376_30490_6618.N1	30-DEC-2007 02:54:15	Dark	43.000	71	lot Car	2.2460	7700.0	86	30490	No
47	GOM_TRA_1PNPDE20071230_025553_000000522064_00376_30490_6619.N1	30-DEC-2007 02:55:53	Dark	52.000	41	Eps Car	1.8600	4100.0	104	30490	No
48	GOM_TRA_1PNPDE20071230_030013_000000452064_00376_30490_6620.N1	30-DEC-2007 03:00:13	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	30490	No

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



#### 4. Overview of dark signal processing per product

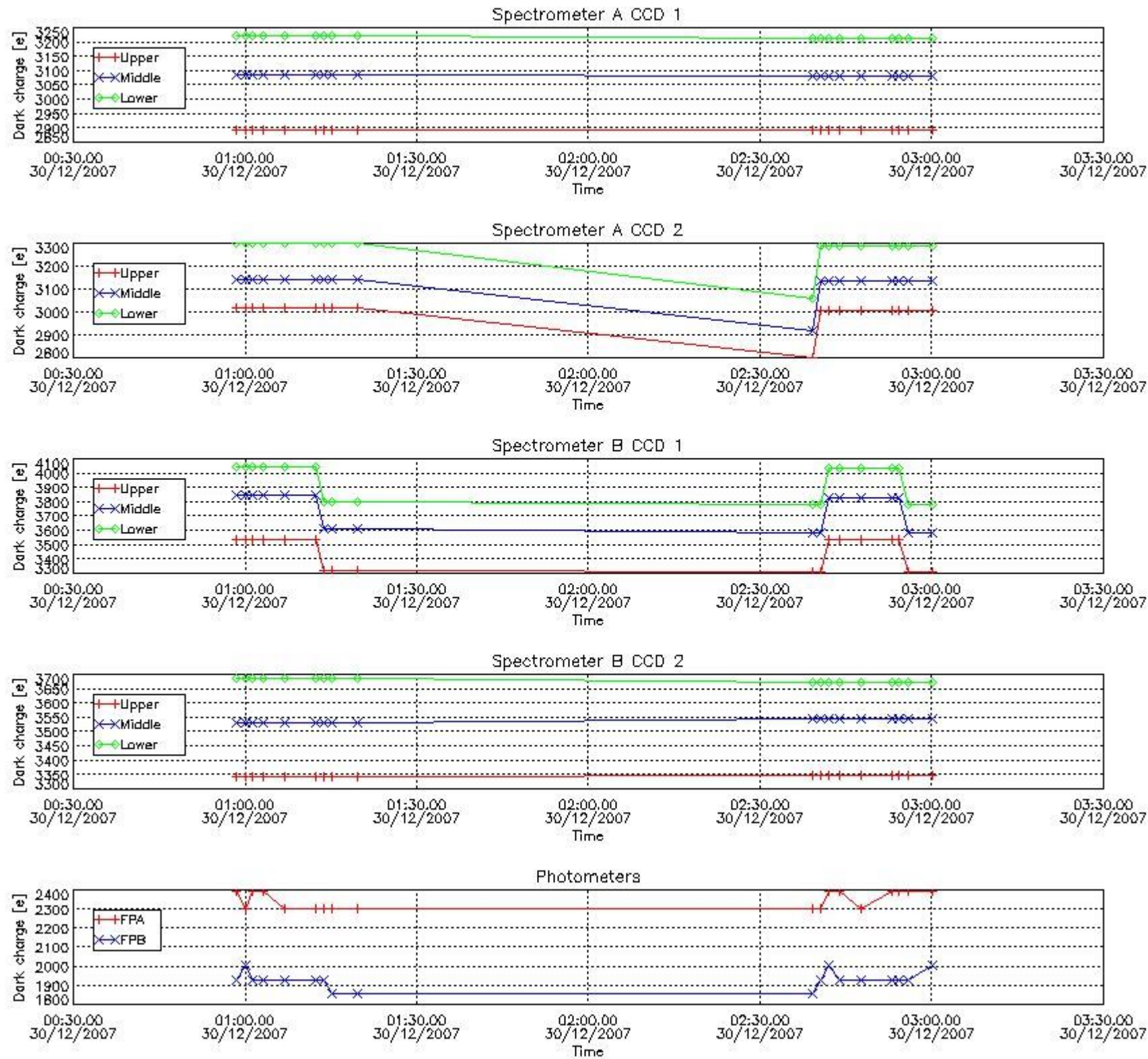
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





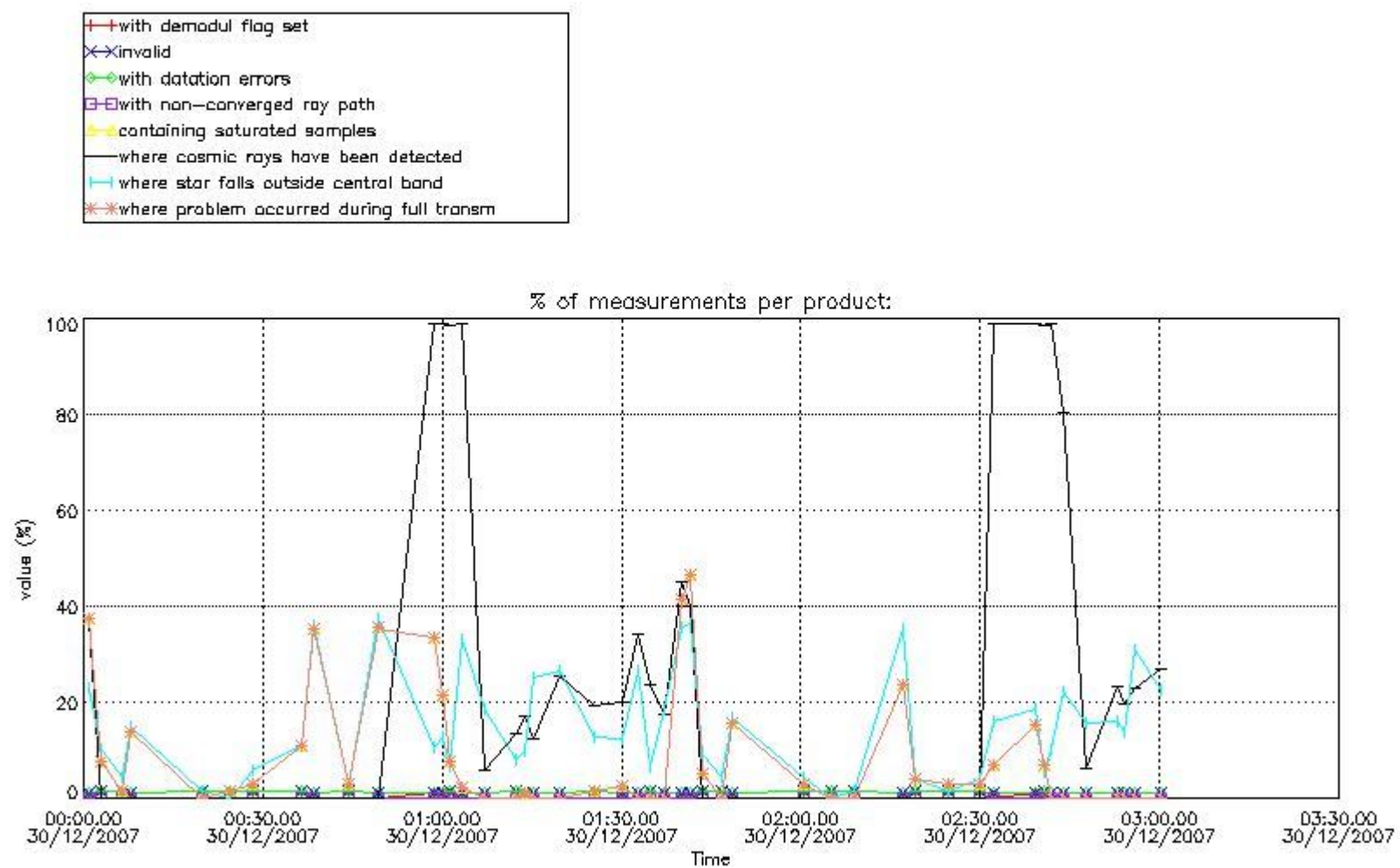
## 5. Demodulation flag and quality information monitoring

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:

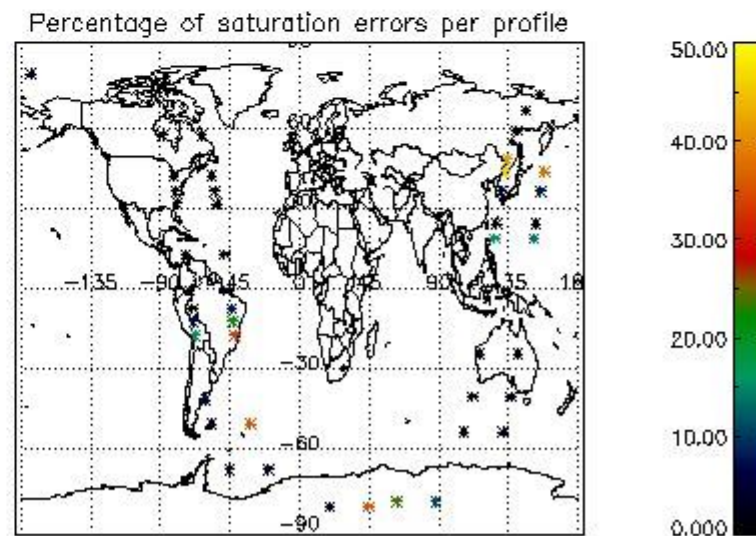
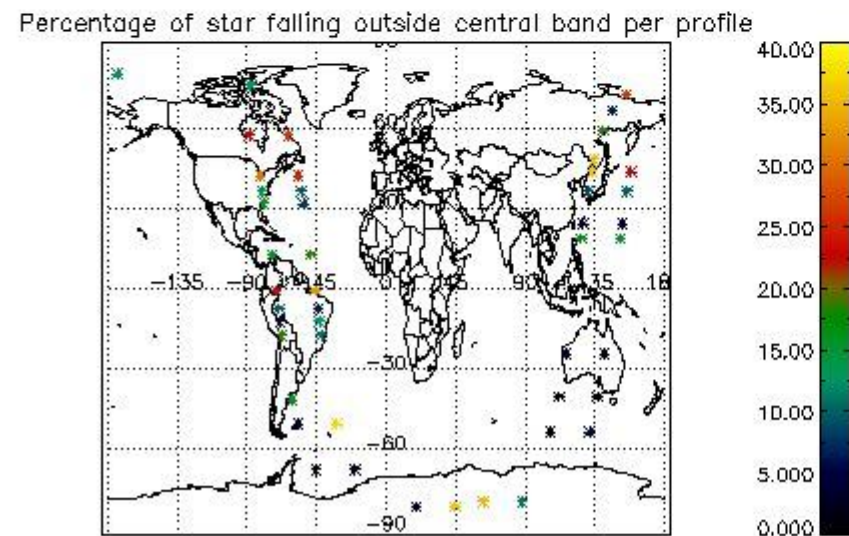
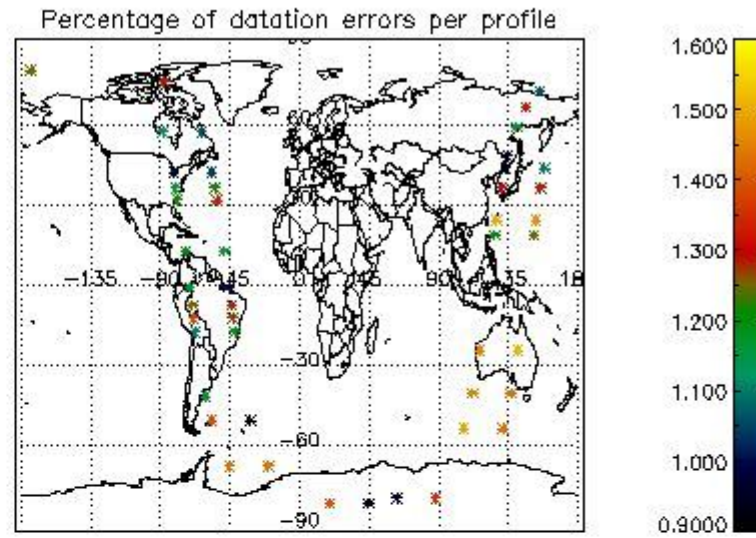
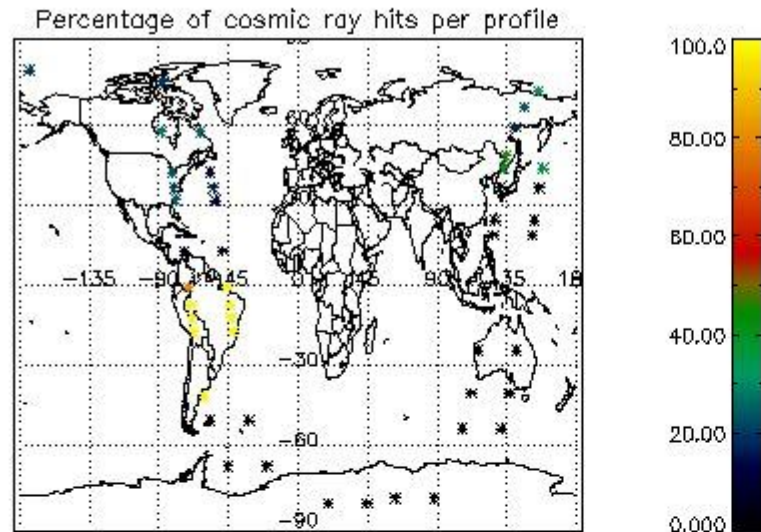
At least one measurement with demodulation flag set:	27.6596 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





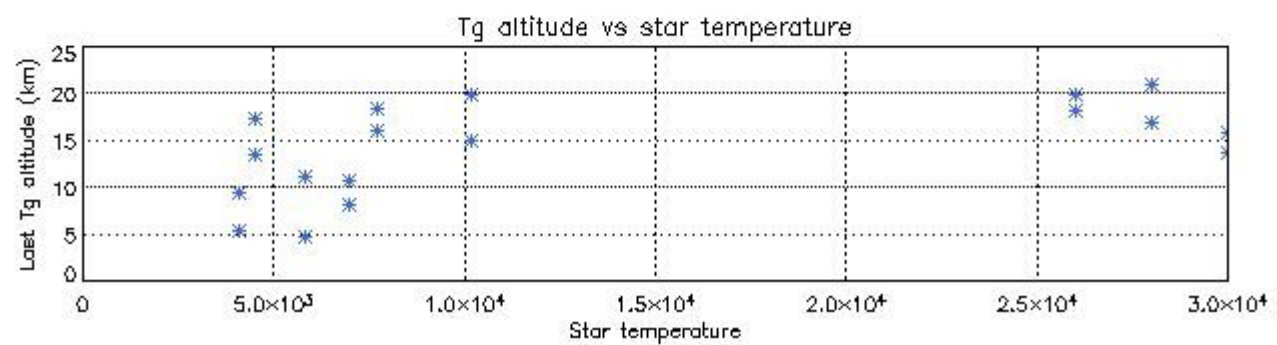
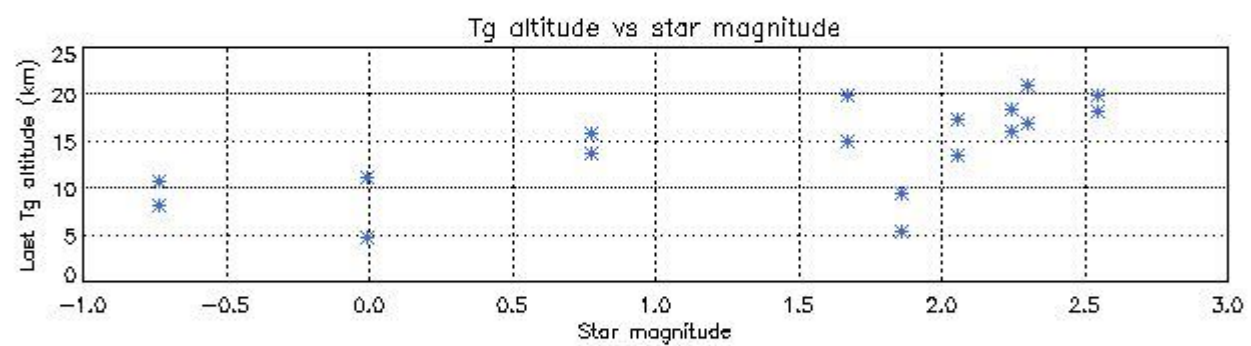
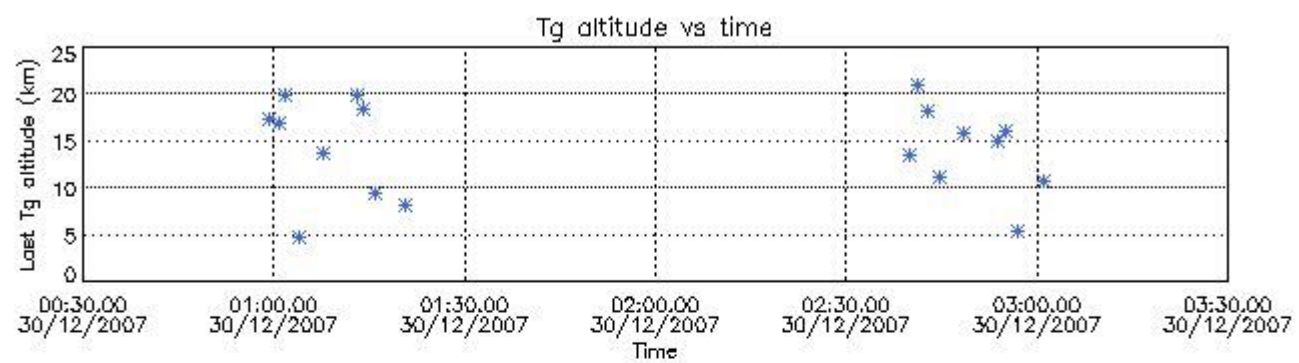
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.142	17.517	NaN
St. deviation:	4.9543	8.1892	NaN
Maximum:	20.876	26.963	NaN
Minimum:	4.6822	3.6236	NaN
Number of data:	18.000	23.000	NaN

### 6.2 Plot for DARK limb products

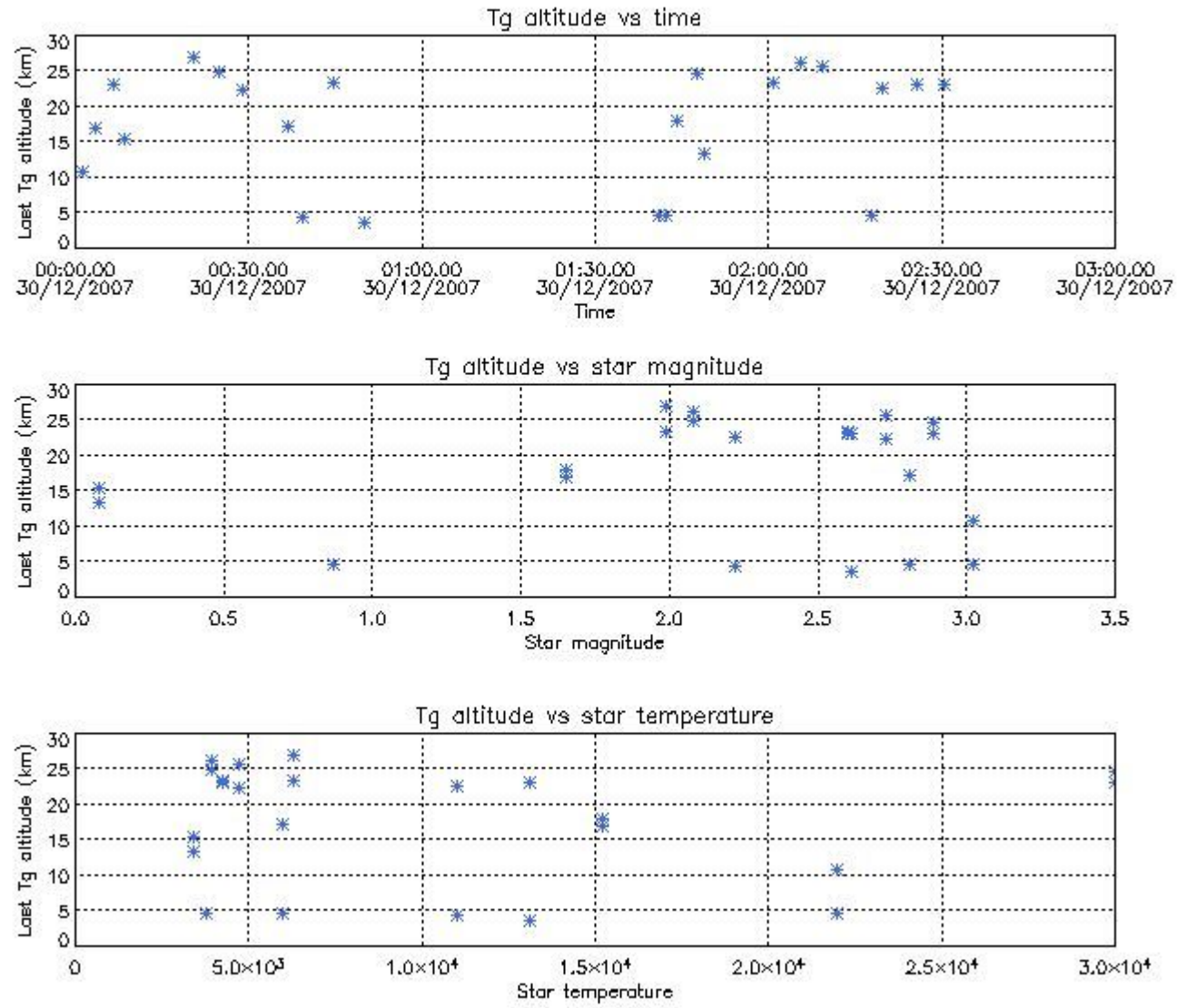
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

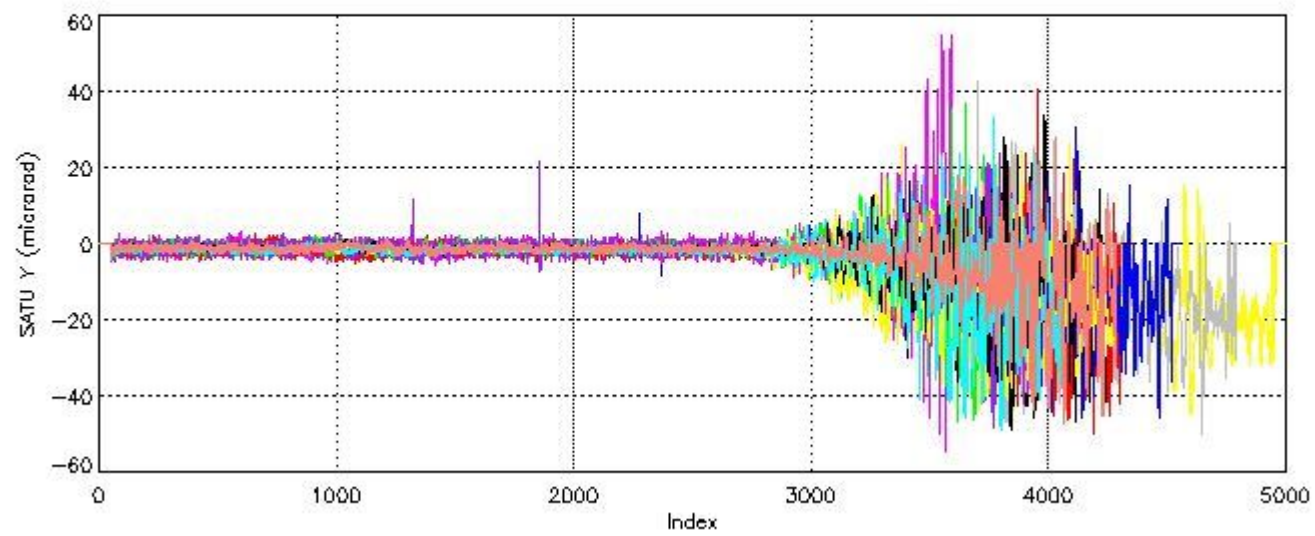
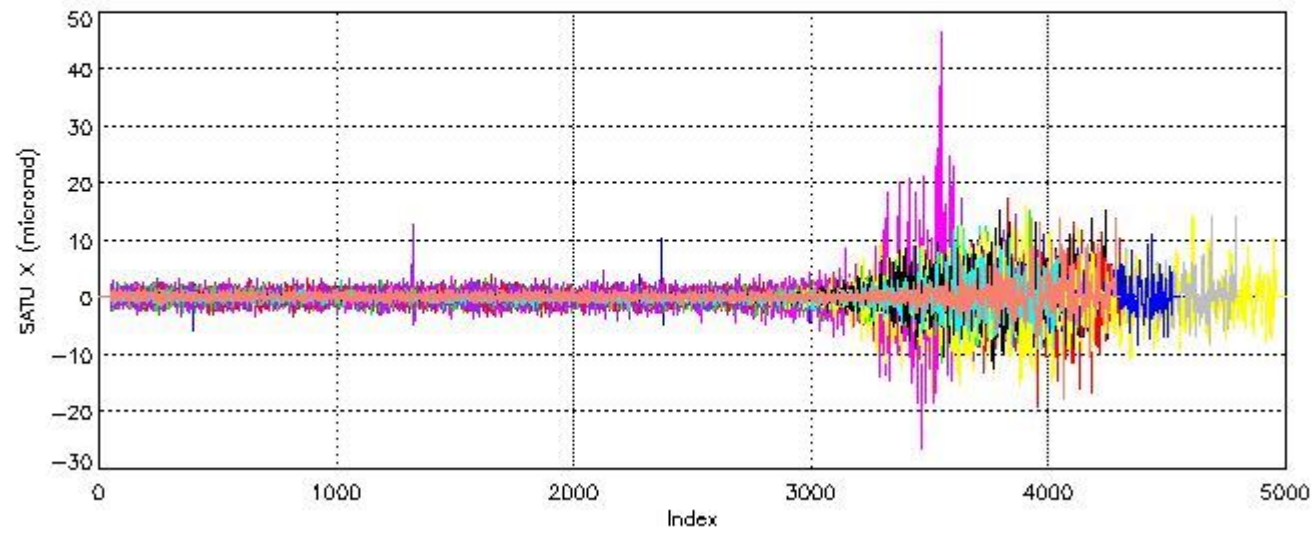


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.11097	-1.3367	0.030917	-1.3013
St. deviation:	0.43099	0.67202	0.76008	1.0693
Maximum:	3.4000	2.7000	4.6000	5.0000
Minimum:	-5.8000	-4.7000	-5.3000	-7.6000

Number of data:	16200.	16200.	19150.	19150.
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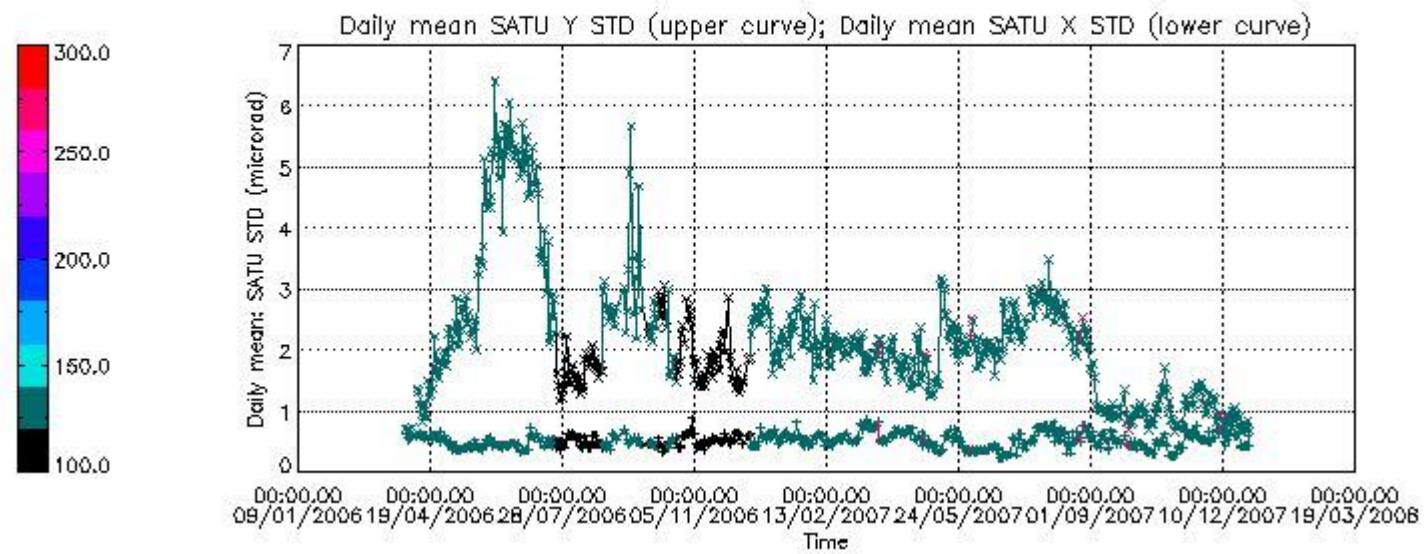
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

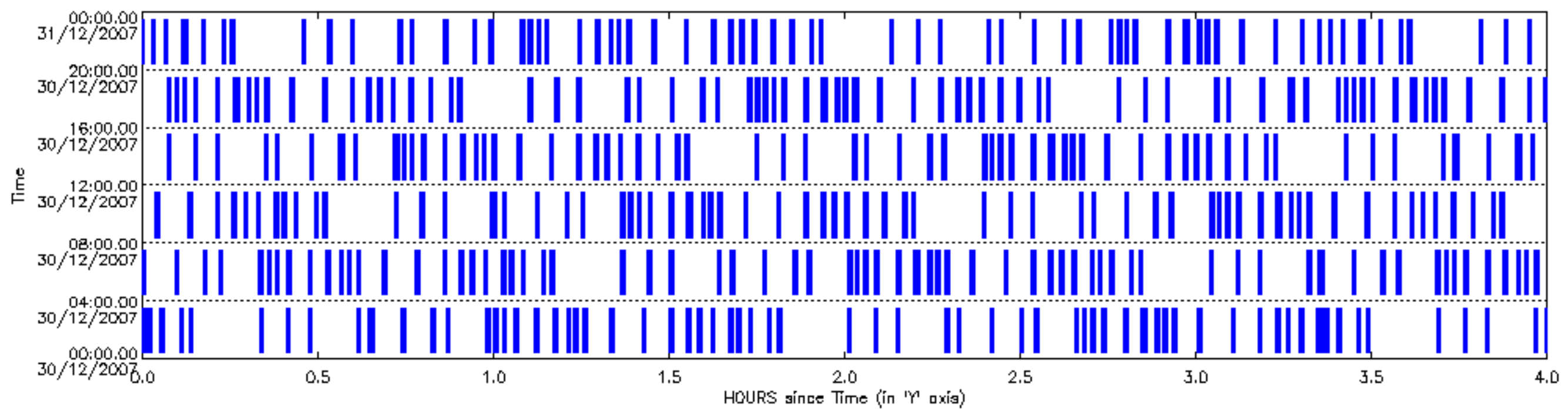


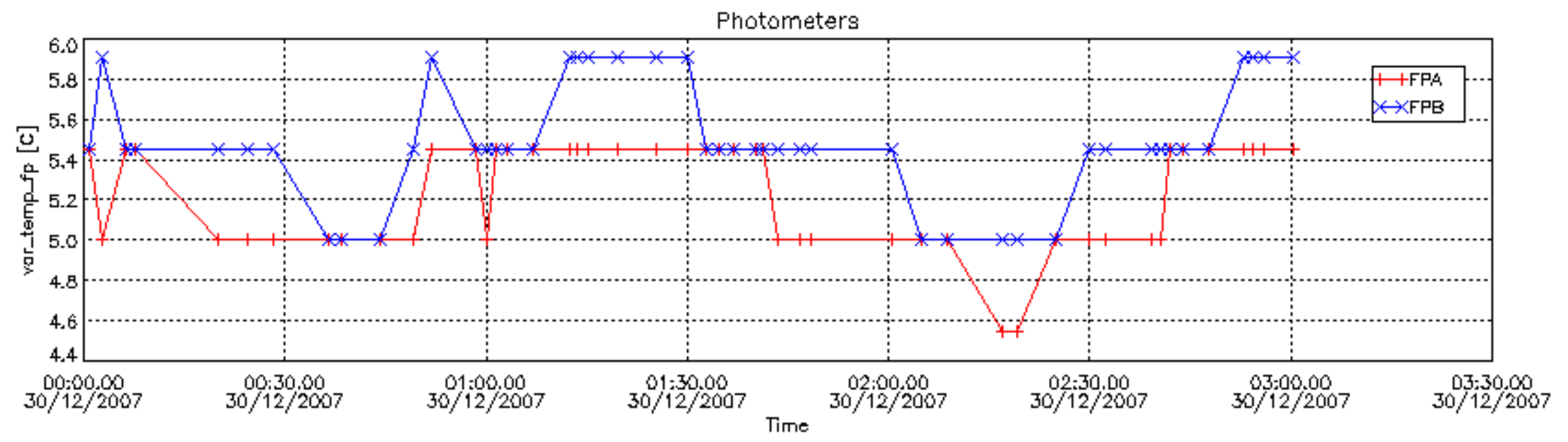
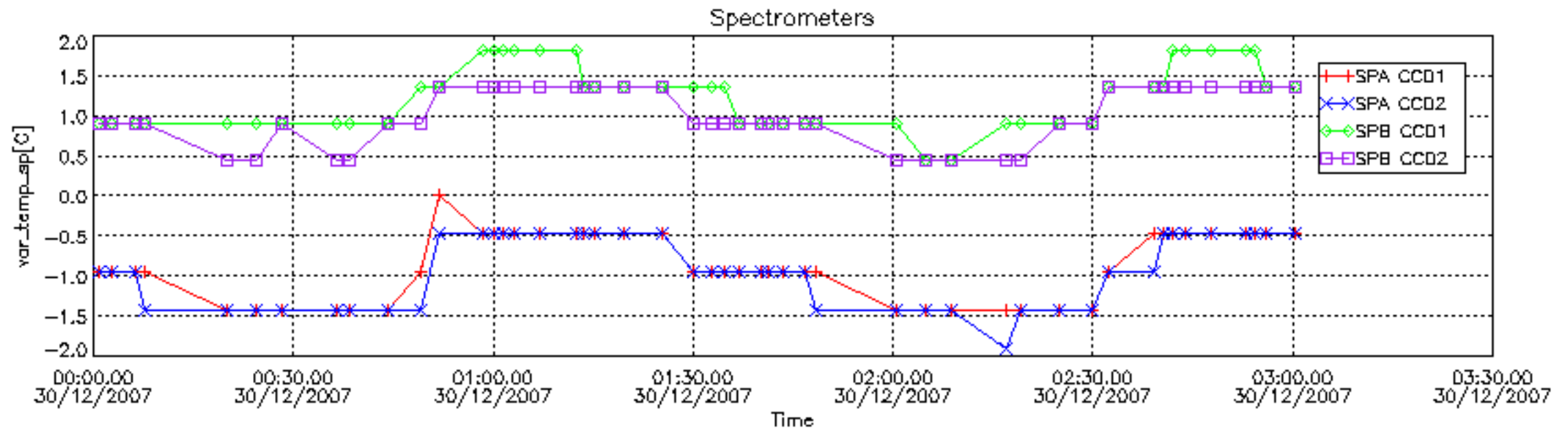
### 8. Auxiliary Data Files used for the production reported in section 2.4

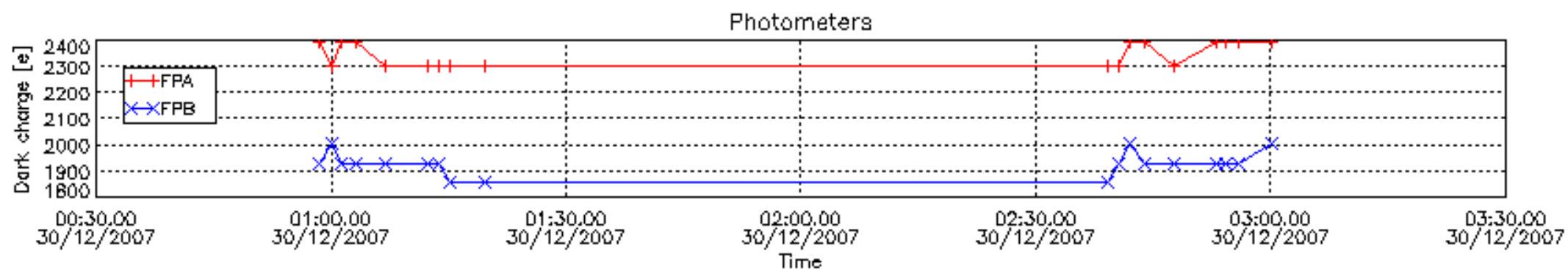
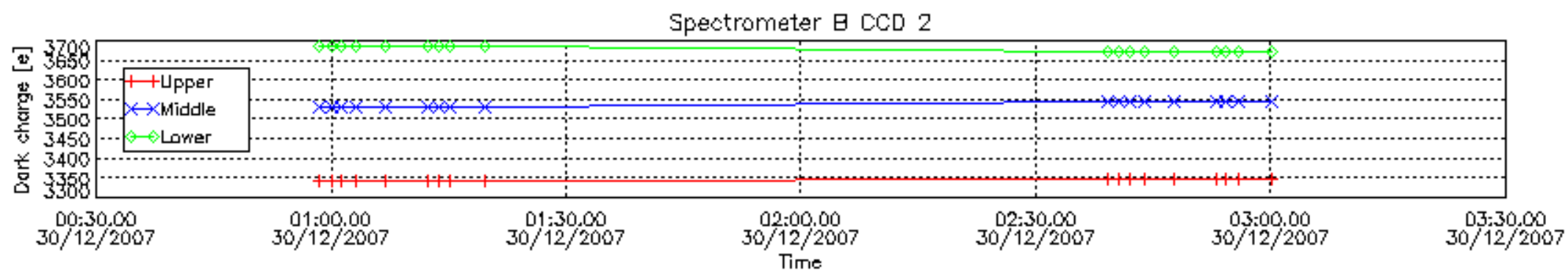
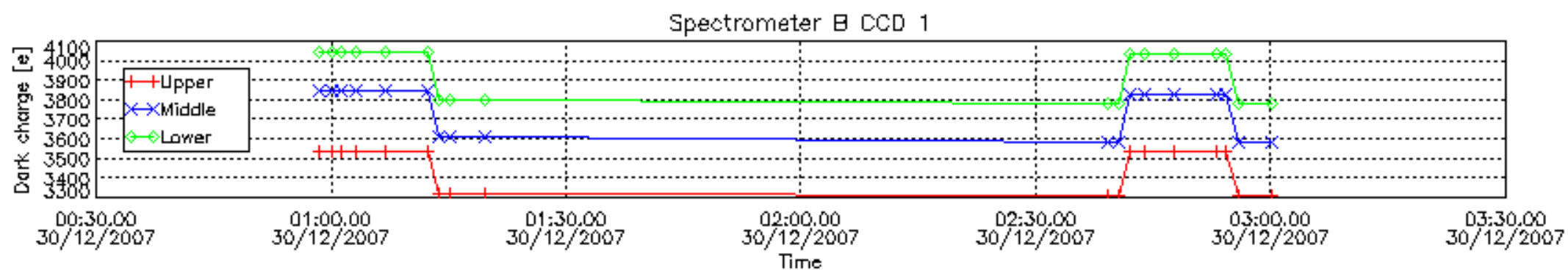
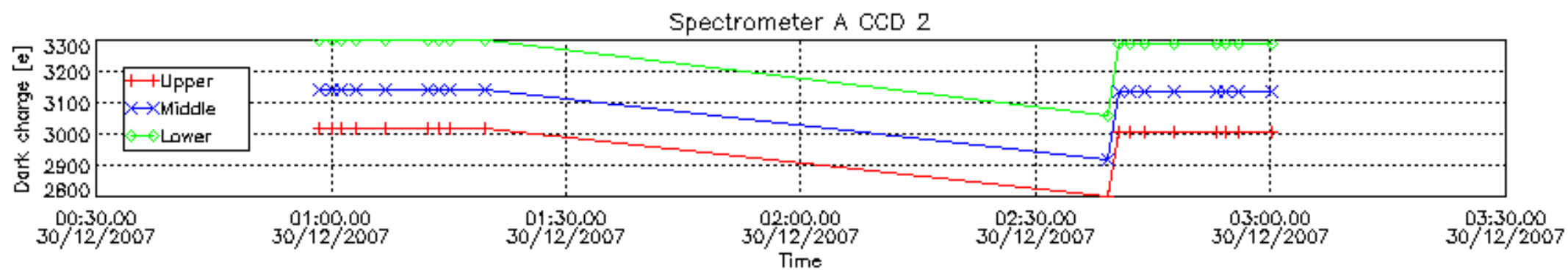
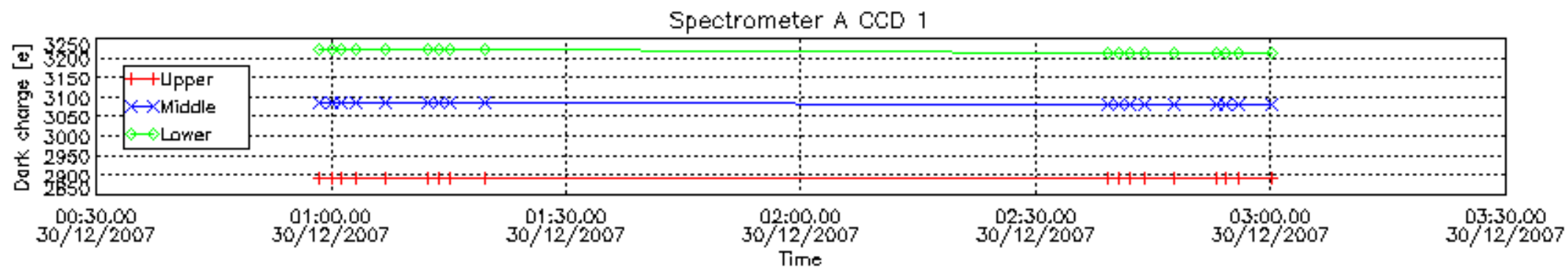
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	30-DEC-2007 00:00:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000	1	30-DEC-2007 00:00:47
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	30-DEC-2007 00:00:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-DEC-2007 00:00:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	30-DEC-2007 00:00:47
ECMWF_FILE	AUX_ECF_AXNECM20071229_073114_20071229_210000_20071230_090000	1	30-DEC-2007 00:00:47
OPTIONAL_ECMWF_FILE	MISSING	1	30-DEC-2007 00:00:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071229_212515_000060572064_00372_30486_4845.N1	1	30-DEC-2007 00:00:47
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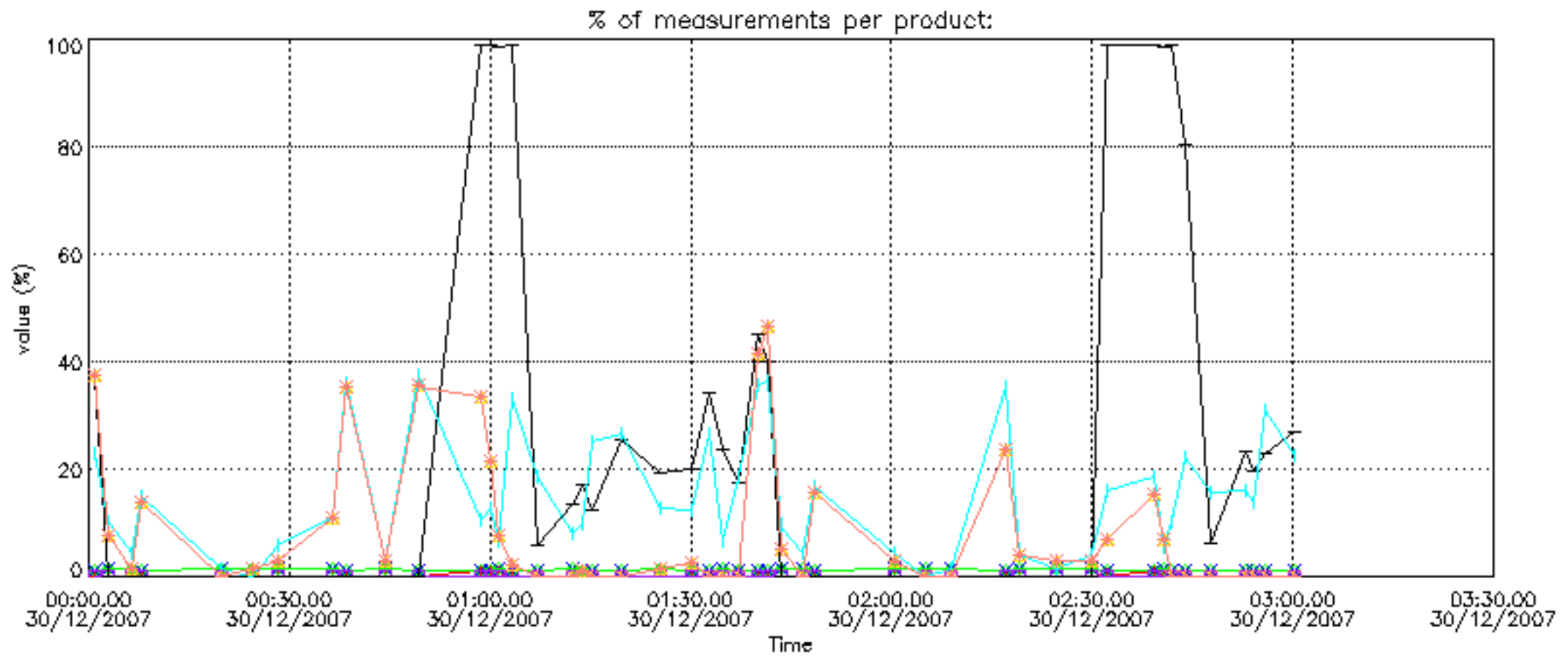




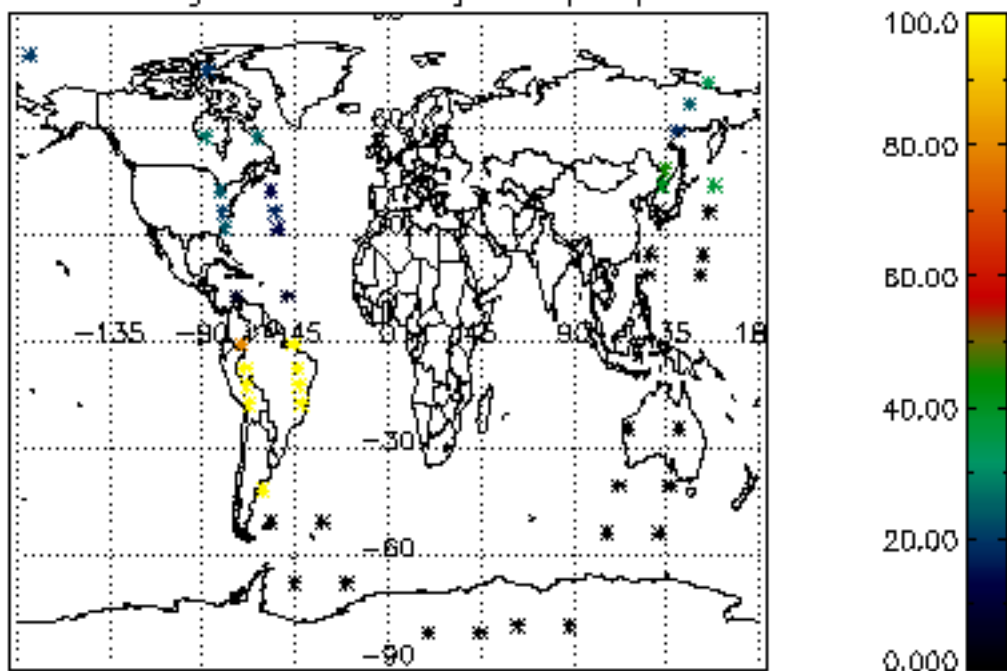




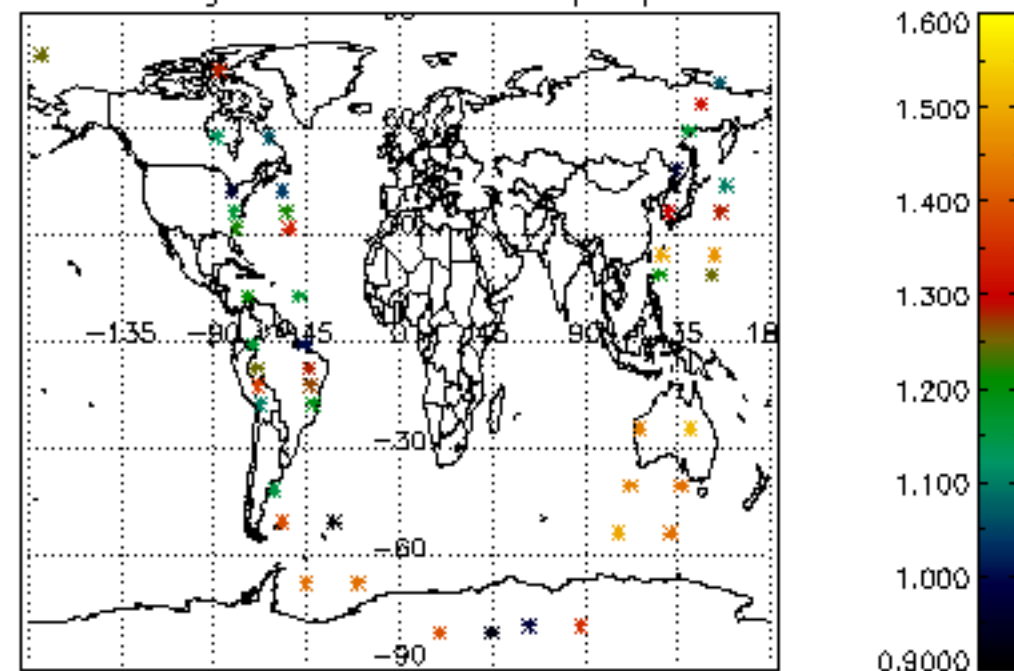




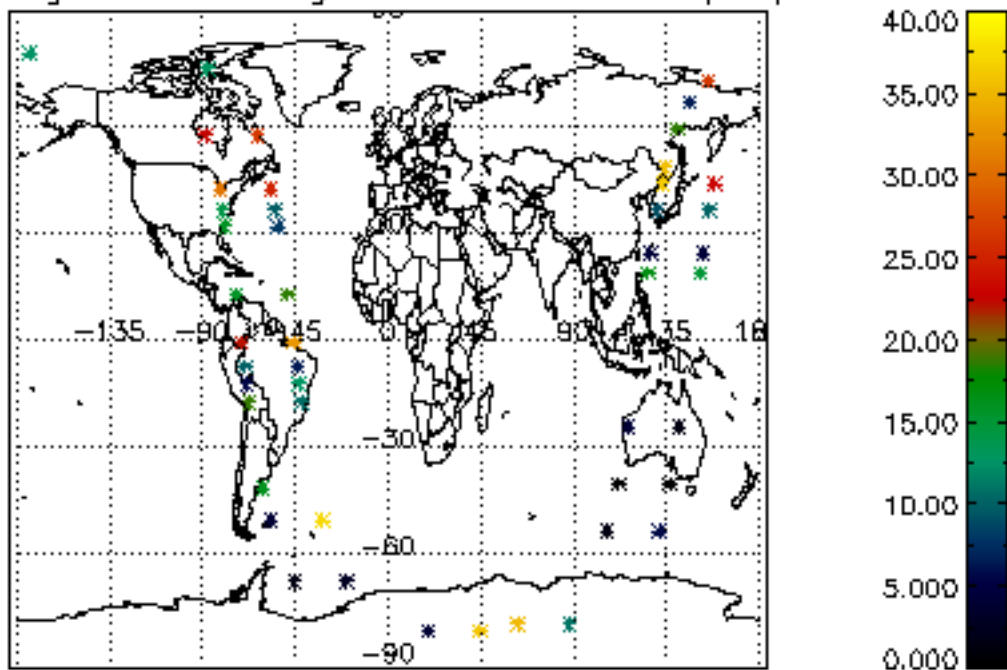
Percentage of cosmic ray hits per profile



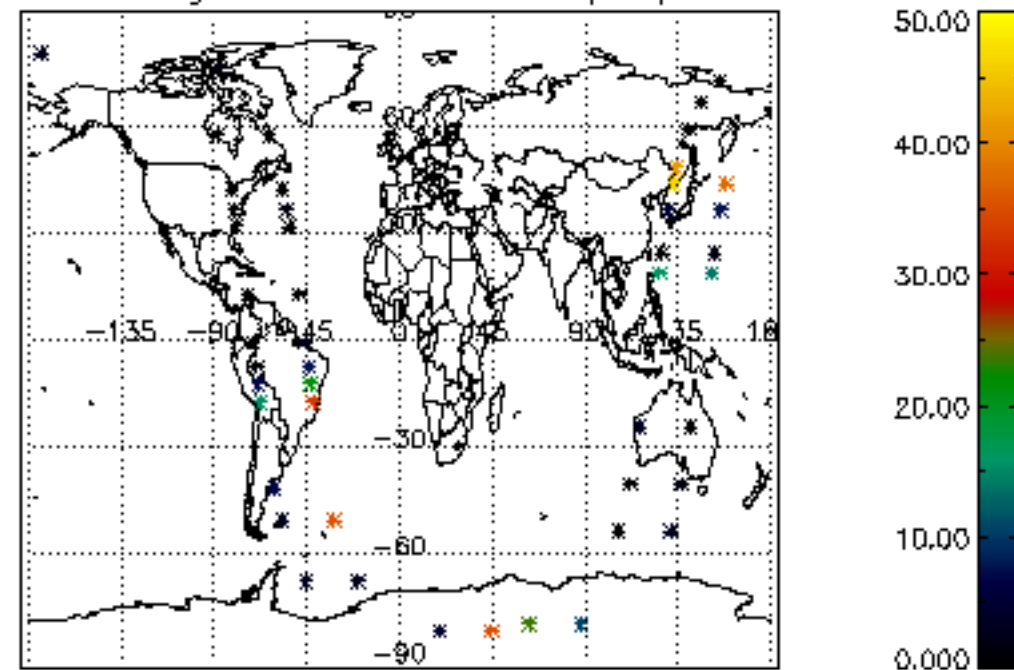
Percentage of datation errors per profile



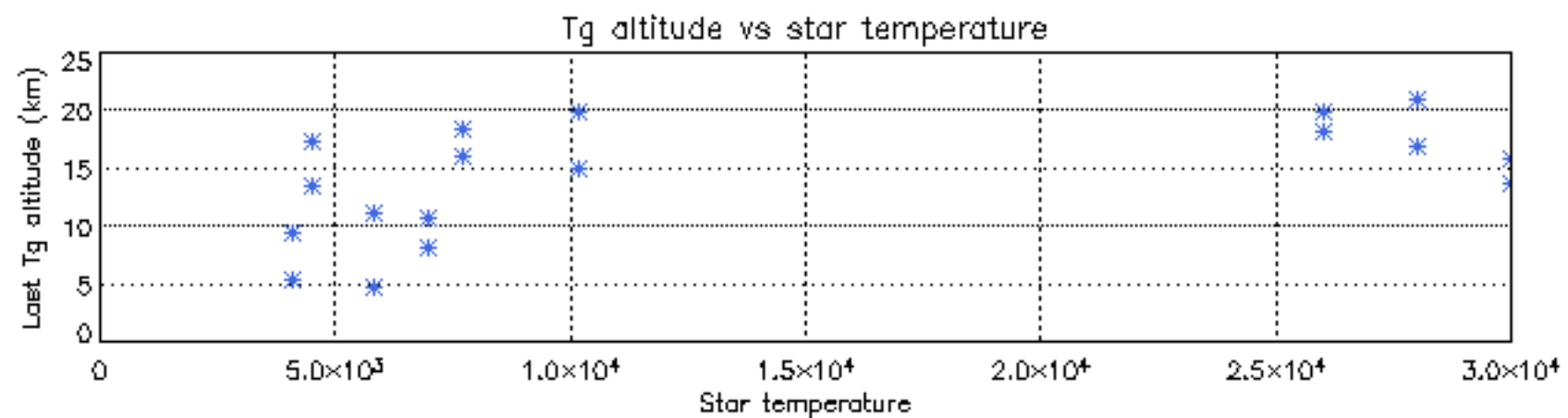
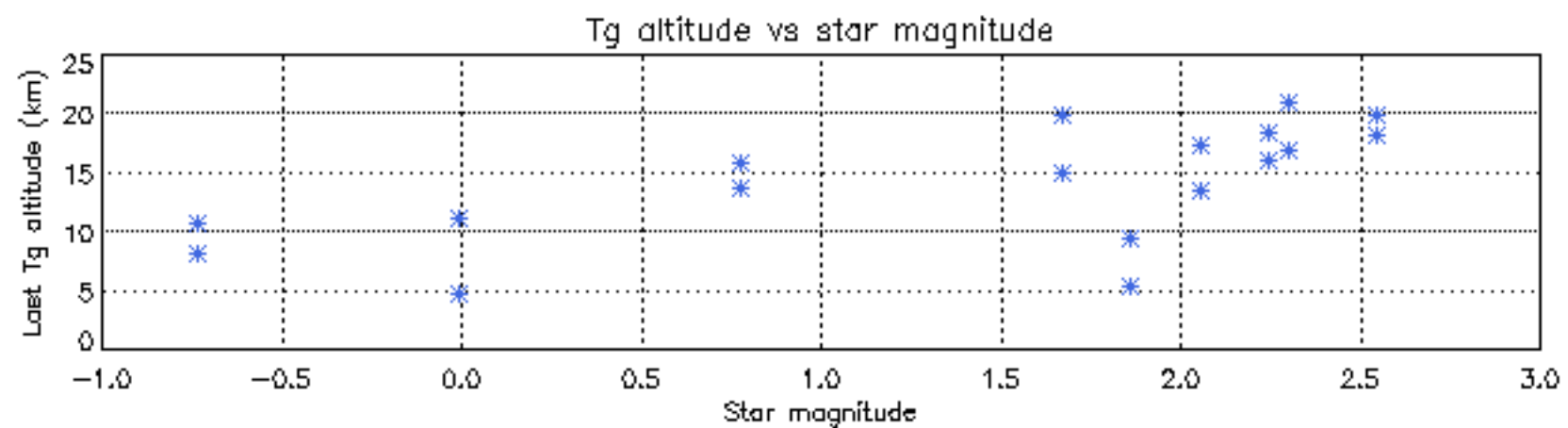
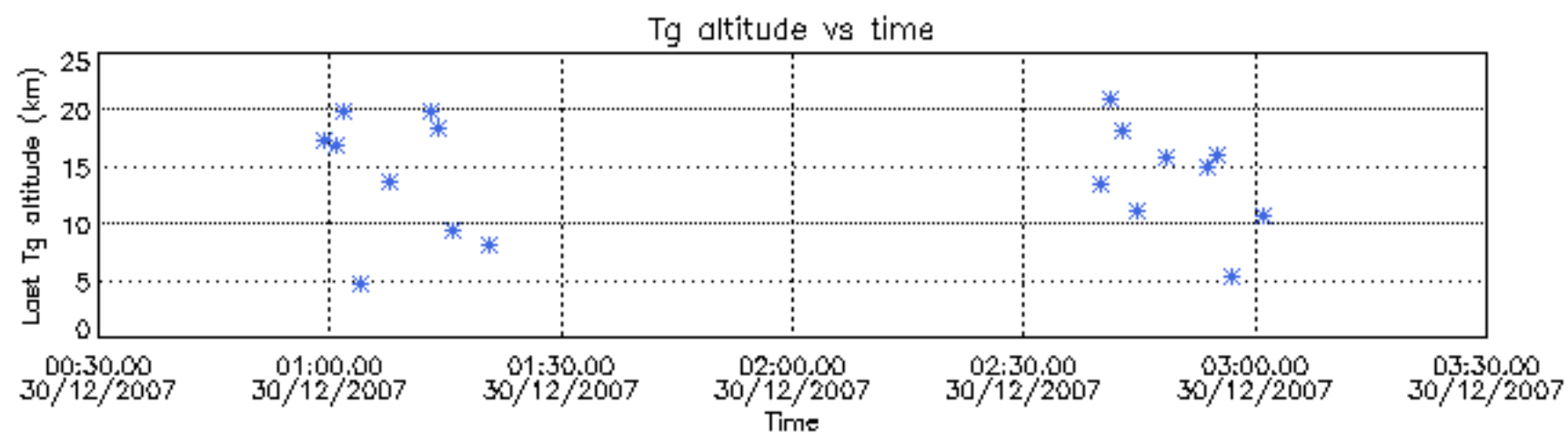
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

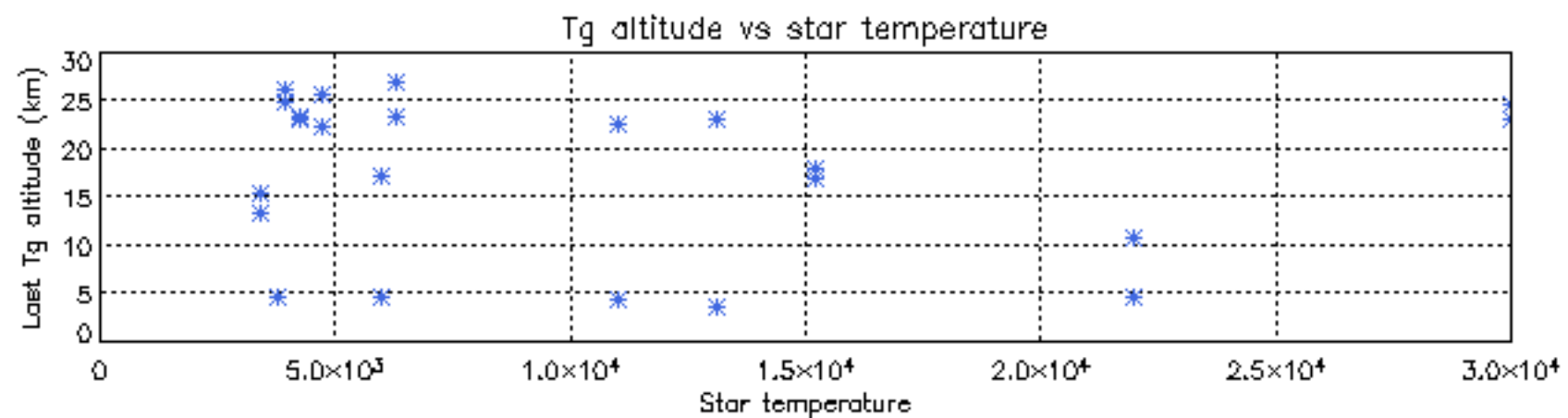
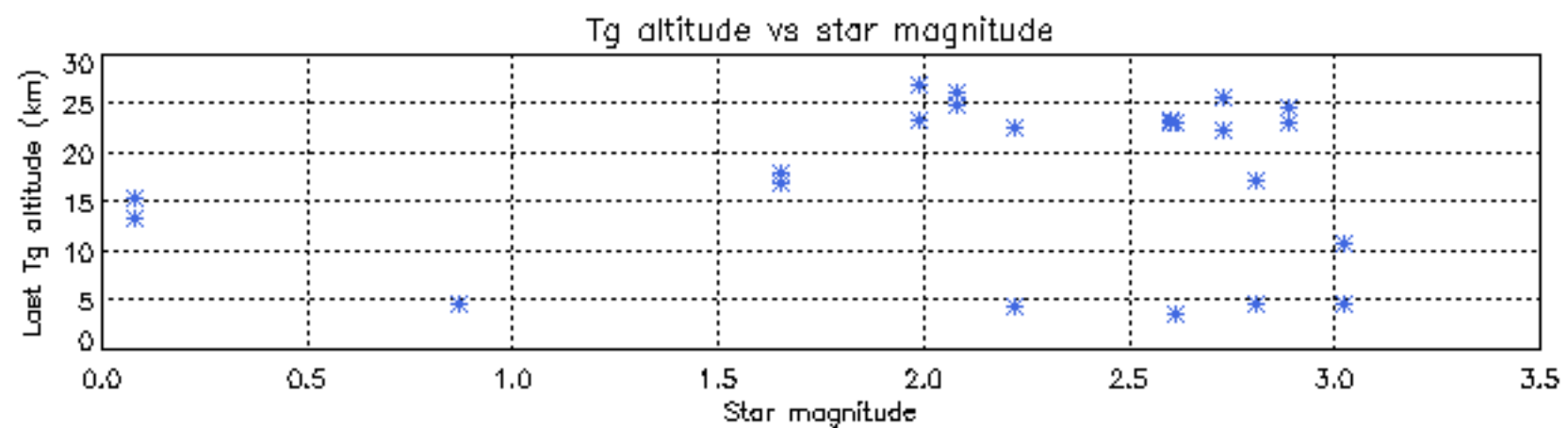
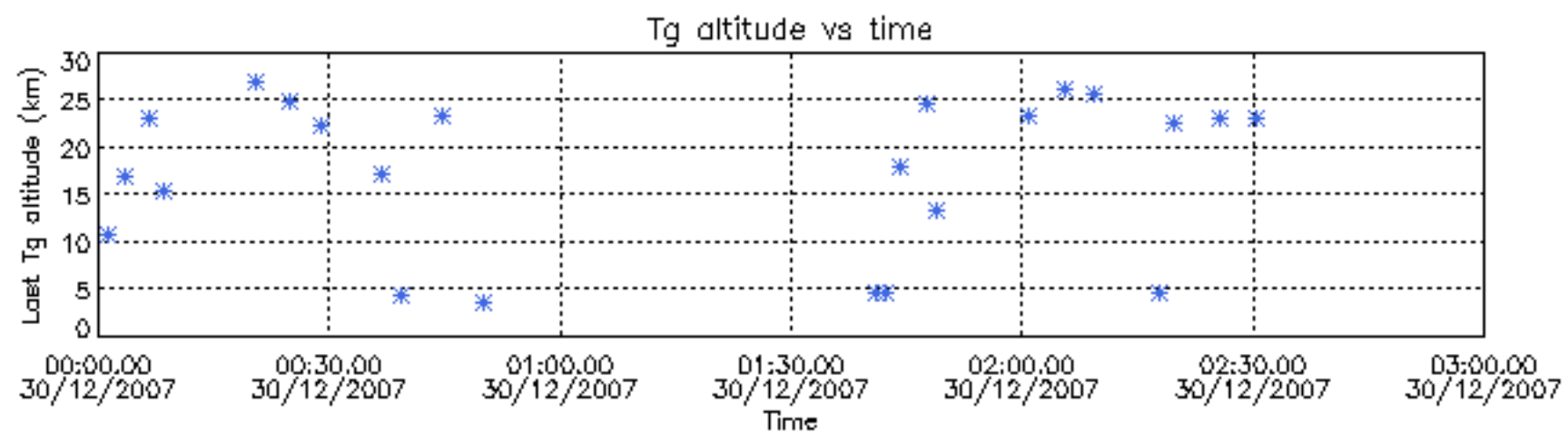


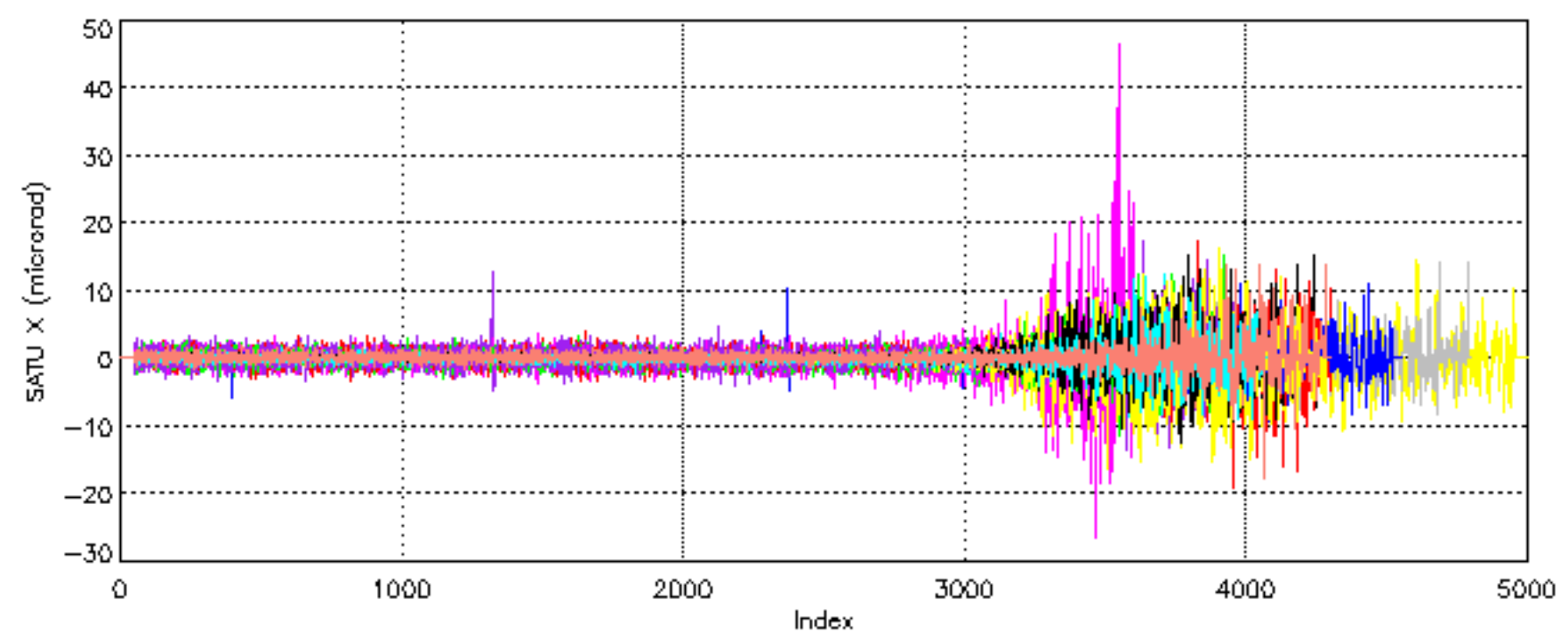
Tangent altitude at which the star is lost

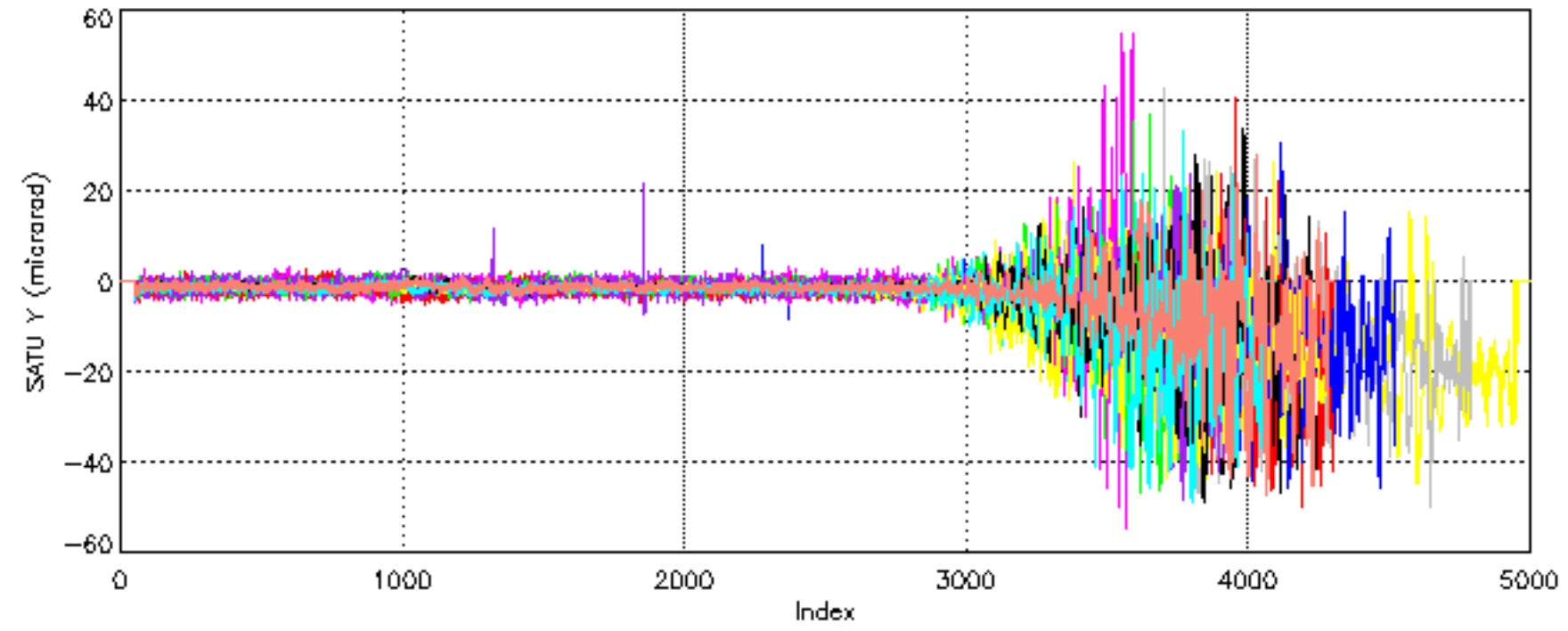




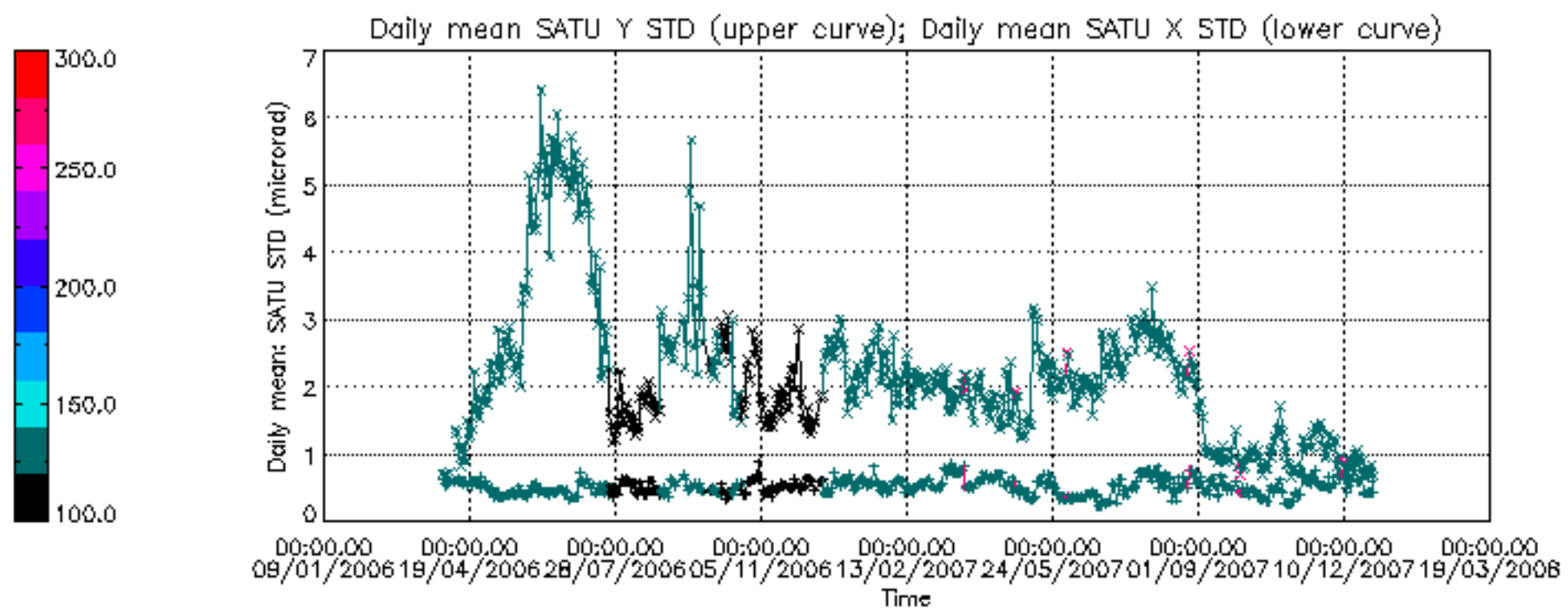
Tangent altitude at which the star is lost











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 3; -537.4; 01-DEC-2007 01:05:58; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30073  
 4; -145.2; 01-DEC-2007 01:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30073  
 5; -46.6; 01-DEC-2007 01:14:09; Dark ; 53.0; 26; Gam Cru ; 1.62; 2900;occ; 106; 0;30073  
 6; 83.1; 01-DEC-2007 01:16:18; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30074  
 7; 202.5; 01-DEC-2007 01:18:18; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30074  
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 13; 2330.0; 01-DEC-2007 01:53:45; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;30074  
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 15; 2605.6; 01-DEC-2007 01:58:21; Bright; 34.0; 79; 26Bet Per ; 2.31; 13100;occ; 68; 0;30074  
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 17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074  
 18; 3421.9; 01-DEC-2007 02:11:57; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30074

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 7; -829.8; 01-DEC-2007 07:43:29; Bright; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;30077
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5; 2605.5; 01-DEC-2007 08:40:45; Bright; 36.0; 79; 26Bet Per ; 2.31; 13100;occ; 72; 0;30078
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13; 4516.0; 10-DEC-2007 11:10:26; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;30208
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26; 6917.4; 12-DEC-2007 12:27:50; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;30237  
27; 7285.2; 12-DEC-2007 12:33:57; Dark ; 42.0; 108; Alp Col ; 2.65; 15200;occ; 84; 0;30237  
28; 7593.6; 12-DEC-2007 12:39:06; Dark ; 33.0; 101; 11Alp Lep ; 2.58; 7000;occ; 66; 0;30237

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12; 4521.1; 12-DEC-2007 13:28:29; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;30238  
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 21; 6472.9; 12-DEC-2007 14:01:01; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30238  
 22; 6572.0; 12-DEC-2007 14:02:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30238  
 23; 6771.8; 12-DEC-2007 14:06:00; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;30238  
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 13; 4714.0; 12-DEC-2007 15:12:18; Bright; 38.0; 111; 8Eta Boo ; 2.68; 6000;occ; 76; 0;30239  
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 18; 5943.7; 12-DEC-2007 15:32:48; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;30239  
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 8; 2720.4; 12-DEC-2007 16:19:40; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30240  
 9; 2820.2; 12-DEC-2007 16:21:20; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;30240  
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 13; 4140.2; 12-DEC-2007 16:43:20; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;30240  
 14; 4333.0; 12-DEC-2007 16:46:33; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;30240  
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 16; 4714.2; 12-DEC-2007 16:52:54; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;30240  
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 18; 5498.7; 12-DEC-2007 17:05:59; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;30240  
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 20; 5697.6; 12-DEC-2007 17:09:18; Dark ; 39.5; 123; Iot Cen ; 2.75; 10200;occ; 79; 0;30240  
 21; 5944.3; 12-DEC-2007 17:13:24; Dark ; 39.5; 64; Gam Cen ; 2.20; 10600;occ; 79; 0;30240  
 22; 6064.6; 12-DEC-2007 17:15:25; Dark ; 38.5; 20; Bet Cru ; 1.25; 30000;occ; 77; 0;30240  
 23; 6257.8; 12-DEC-2007 17:18:38; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;30240  
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 25; 6573.7; 12-DEC-2007 17:23:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30240  
 26; 6773.3; 12-DEC-2007 17:27:13; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;30240  
 27; 6918.8; 12-DEC-2007 17:29:39; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;30240

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19; 5614.9; 12-DEC-2007 18:48:31; Dark ; 41.0; 54; 5The Cen ; 2.06; 4500;occ; 82; 0;30241
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22; 6065.0; 12-DEC-2007 18:56:01; Dark ; 38.5; 20; Bet Cru ; 1.25; 30000;occ; 77; 0;30241
23; 6258.6; 12-DEC-2007 18:59:15; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;30241
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17; 5615.2; 12-DEC-2007 20:29:07; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;30242
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19; 5945.3; 12-DEC-2007 20:34:37; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;30242
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21; 6259.4; 12-DEC-2007 20:39:51; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;30242
22; 6425.1; 12-DEC-2007 20:42:37; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30242
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 22; 6594.7; 23-DEC-2007 14:57:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30396  
 23; 6701.4; 23-DEC-2007 14:59:27; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;30396  
 24; 6977.1; 23-DEC-2007 15:04:03; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;30396  
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 11; 3701.0; 23-DEC-2007 17:30:39; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;30398  
 12; 3912.8; 23-DEC-2007 17:34:10; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30398  
 13; 4524.0; 23-DEC-2007 17:44:22; Bright; 52.0; 67; 5Alp CrB ; 2.22; 11000;occ; 104; 0;30398  
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9; 2711.9; 23-DEC-2007 18:54:46; Bright; 43.0; 6; 13Alp Aur ; 0.08; 3400;occ; 86; 0;30399  
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22; 6398.9; 23-DEC-2007 19:56:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30399  
23; 6504.5; 23-DEC-2007 19:57:58; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30399  
24; 6596.5; 23-DEC-2007 19:59:30; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30399  
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6; 469.4; 23-DEC-2007 23:19:11; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;30402  
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5; 363.8; 24-DEC-2007 00:58:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30403  
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7; 562.2; 24-DEC-2007 01:01:19; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30403  
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24; 4411.1; 27-DEC-2007 23:59:01; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30459
25; 4534.3; 28-DEC-2007 00:01:04; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30459
26; 4872.5; 28-DEC-2007 00:06:42; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30459
27; 5167.6; 28-DEC-2007 00:11:37; Bright; 53.5; 104; 27Bet Lib ; 2.61; 13100;occ; 107; 0;30459
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13; 1762.1; 28-DEC-2007 00:55:27; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;30460
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23; 3918.0; 28-DEC-2007 01:31:23; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30460
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19; 2600.4; 28-DEC-2007 02:50:02; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30461  
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21; 2784.0; 28-DEC-2007 02:53:05; Bright; 37.0; 35; 33Alp Per ; 1.79; 6250;occ; 74; 0;30461  
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18; 1308.1; 28-DEC-2007 05:49:41; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30463  
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22; 2012.9; 28-DEC-2007 06:01:26; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;30463  
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27; 2784.7; 28-DEC-2007 06:14:18; Bright; 36.5; 35; 33Alp Per ; 1.79; 6250;occ; 73; 0;30463  
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8;	384.6;	28-DEC-2007	22:20:17;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30473
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11;	702.4;	28-DEC-2007	22:25:35;	Dark	;	41.0;	41;	Eps Car	;	1.86;	4100;occ;	82;	0;	30473
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26;	4536.9;	28-DEC-2007	23:29:29;	Bright;	;	54.0;	67;	5Alp CrB	;	2.22;	11000;occ;	108;	0;	30473
27;	4876.4;	28-DEC-2007	23:35:09;	Bright;	;	34.0;	102;	24Alp Ser	;	2.60;	4250;occ;	68;	0;	30473
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13;	382.0;	28-DEC-2007	07:14:51;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30464
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15;	597.5;	28-DEC-2007	07:18:27;	Dark	;	40.5;	71;	Iot Car	;	2.25;	7700;occ;	81;	0;	30464
16;	698.2;	28-DEC-2007	07:20:07;	Dark	;	44.5;	41;	Eps Car	;	1.86;	4100;occ;	89;	0;	30464
17;	962.2;	28-DEC-2007	07:24:31;	Dark	;	44.5;	2;	Alp Car	;	-0.74;	7000;occ;	89;	0;	30464
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19;	1589.3;	28-DEC-2007	07:34:58;	Dark	;	42.0;	101;	11Alp Lep	;	2.58;	7000;occ;	84;	0;	30464
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