

# GOMOS Daily Report 18-DEC-2007

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

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

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

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

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

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

#### [4. Dark Charge monitoring](#)

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

[4.2 Plot of Dark Charge](#)

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

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

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

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

#### [6. Star tangent altitude lost](#)

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

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

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

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

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

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

[7.2 SATU Noise Equivalent Angle statistics](#)

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

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

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

## [Level 2 products](#)

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	20DEC2007 05:49:40
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (18DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (19DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

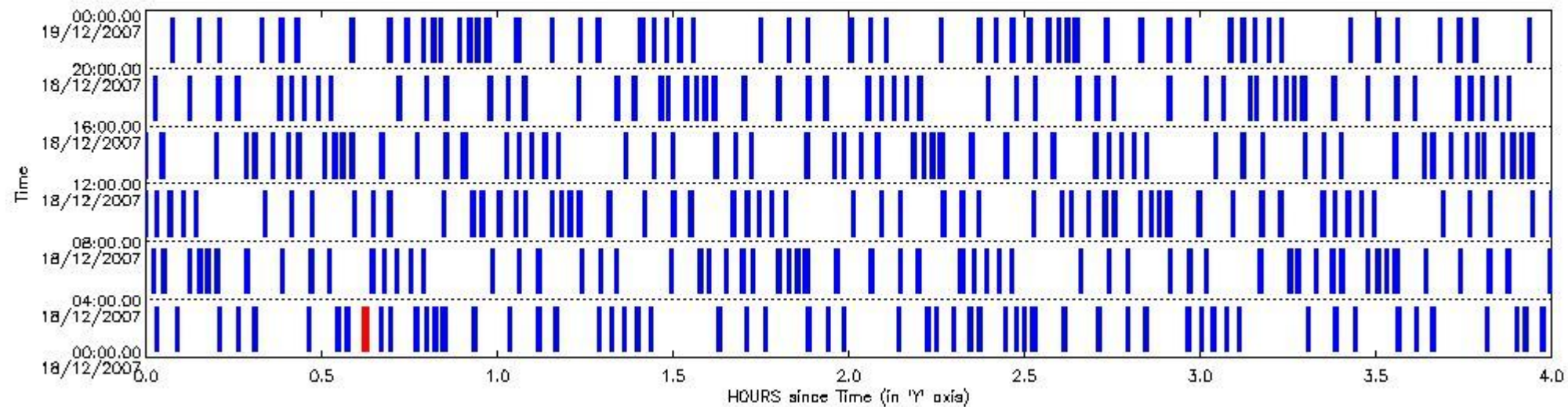
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

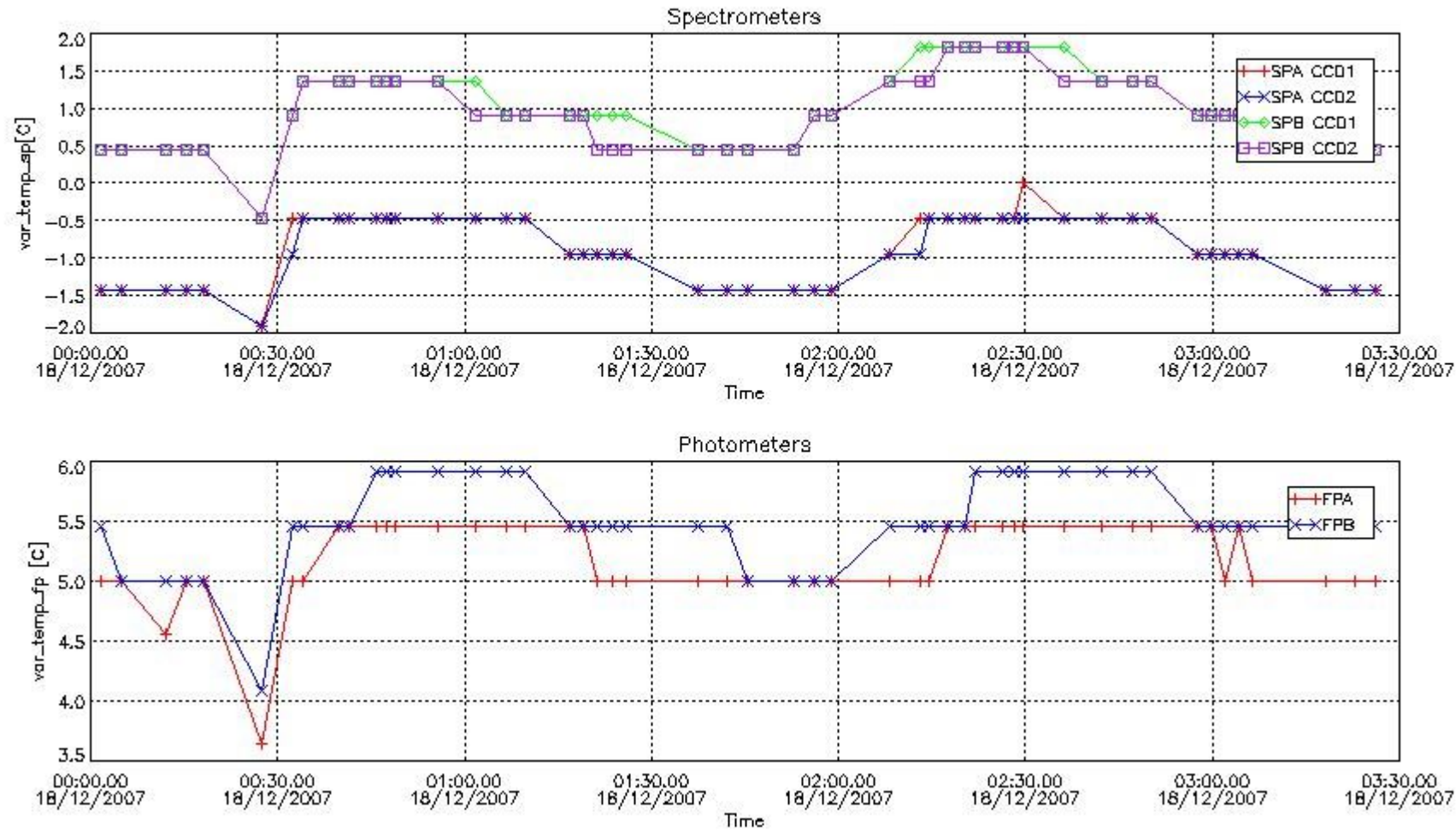
UTC start time	Star name	Star ID	Orbit
18-DEC-2007 00:36:56	ZetCen	95	30316

### 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_1PNPDE20071218_000135_000000332064_00202_30316_0348.N1	18-DEC-2007 00:01:35	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	30316	No
2	GOM_TRA_1PNPDE20071218_000454_000000342064_00202_30316_0349.N1	18-DEC-2007 00:04:54	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	30316	No
3	GOM_TRA_1PNPDE20071218_001211_000000362064_00202_30316_0350.N1	18-DEC-2007 00:12:11	Bright	35.500	180	27Gam Boo	3.0400	8000.0	71	30316	No
4	GOM_TRA_1PNPDE20071218_001526_000000362064_00202_30316_0351.N1	18-DEC-2007 00:15:26	Bright	36.000	83		2.3780	11000.	72	30316	No
5	GOM_TRA_1PNPDE20071218_001811_000000402064_00202_30316_0352.N1	18-DEC-2007 00:18:11	Bright	39.500	3	16Alp Boo	-0.050000	4250.0	79	30316	No
6	GOM_TRA_1PNPDE20071218_002731_000000352064_00202_30316_0420.N1	18-DEC-2007 00:27:31	Bright	35.000	122	9Alp2Lib	2.7470	9700.0	70	30316	Yes
7	GOM_TRA_1PNPDE20071218_003224_000000452064_00202_30316_0421.N1	18-DEC-2007 00:32:24	Dark	45.000	169	46Gam Hya	2.9910	4700.0	90	30316	No
8	GOM_TRA_1PNPDE20071218_003357_000000412064_00202_30316_0422.N1	18-DEC-2007 00:33:57	Dark	41.000	54	5The Cen	2.0550	4500.0	82	30316	No
9	GOM_TRA_1PNPDE20071218_003942_000000412064_00202_30316_0423.N1	18-DEC-2007 00:39:42	Dark	40.500	64	Gam Cen	2.2000	10600.	81	30316	No
10	GOM_TRA_1PNPDE20071218_004121_000000412064_00203_30317_0424.N1	18-DEC-2007 00:41:21	Dark	41.000	99	Del Cen	2.5750	26000.	82	30317	No

11	GOM_TRA_1PNPDE20071218_004549_000000382064_00203_30317_0425.N1	18-DEC-2007 00:45:49	Dark	37.500	124	The Car	2.7640	30000.	75	30317	No
12	GOM_TRA_1PNPDE20071218_004734_000000382064_00203_30317_0426.N1	18-DEC-2007 00:47:34	Dark	37.500	159	Ups Car	2.9200	7200.0	75	30317	No
13	GOM_TRA_1PNPDE20071218_004857_000000412064_00203_30317_0427.N1	18-DEC-2007 00:48:57	Dark	40.500	71	lot Car	2.2460	7700.0	81	30317	No
14	GOM_TRA_1PNPDE20071218_005540_000000462064_00203_30317_0428.N1	18-DEC-2007 00:55:40	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	30317	No
15	GOM_TRA_1PNPDE20071218_010139_000000412064_00203_30317_0429.N1	18-DEC-2007 01:01:39	Straylight	41.000	108	Alp Col	2.6520	15200.	82	30317	No
16	GOM_TRA_1PNPDE20071218_010635_000000452064_00203_30317_0430.N1	18-DEC-2007 01:06:35	Straylight	44.500	101	11Alp Lep	2.5820	7000.0	89	30317	No
17	GOM_TRA_1PNPDE20071218_010938_000000492064_00203_30317_0431.N1	18-DEC-2007 01:09:38	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	30317	No
18	GOM_TRA_1PNPDE20071218_011656_000000472064_00203_30317_0432.N1	18-DEC-2007 01:16:56	Twilight_stray	46.500	13	87Alp Tau	0.86700	3800.0	93	30317	No
19	GOM_TRA_1PNPDE20071218_011910_000000362064_00203_30317_0433.N1	18-DEC-2007 01:19:10	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	30317	No
20	GOM_TRA_1PNPDE20071218_012119_000000352064_00203_30317_0434.N1	18-DEC-2007 01:21:19	Bright	35.000	150	44Zet Per	2.8900	28000.	70	30317	No
21	GOM_TRA_1PNPDE20071218_012335_000000352064_00203_30317_0435.N1	18-DEC-2007 01:23:35	Bright	35.000	149	45Eps Per	2.8880	30000.	70	30317	No
22	GOM_TRA_1PNPDE20071218_012548_000000342064_00203_30317_0436.N1	18-DEC-2007 01:25:48	Bright	33.500	175	39Del Per	3.0100	19400.	67	30317	No
23	GOM_TRA_1PNPDE20071218_013729_000000362064_00203_30317_0437.N1	18-DEC-2007 01:37:29	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	30317	No
24	GOM_TRA_1PNPDE20071218_014211_000000382064_00203_30317_0438.N1	18-DEC-2007 01:42:11	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30317	No
25	GOM_TRA_1PNPDE20071218_014530_000000362064_00203_30317_0439.N1	18-DEC-2007 01:45:30	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	30317	No
26	GOM_TRA_1PNPDE20071218_015247_000000372064_00203_30317_0440.N1	18-DEC-2007 01:52:47	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	30317	No
27	GOM_TRA_1PNPDE20071218_015602_000000382064_00203_30317_0441.N1	18-DEC-2007 01:56:02	Bright	38.000	83		2.3780	11000.	76	30317	No
28	GOM_TRA_1PNPDE20071218_015847_000000392064_00203_30317_0442.N1	18-DEC-2007 01:58:47	Bright	38.500	3	16Alp Boo	-0.050000	4250.0	77	30317	No
29	GOM_TRA_1PNPDE20071218_020807_000000342064_00203_30317_0574.N1	18-DEC-2007 02:08:07	Bright	34.000	122	9Alp2Lib	2.7470	9700.0	68	30317	No
30	GOM_TRA_1PNPDE20071218_021301_000000492064_00203_30317_0575.N1	18-DEC-2007 02:13:01	Dark	48.500	169	46Gam Hya	2.9910	4700.0	97	30317	No
31	GOM_TRA_1PNPDE20071218_021433_000000452064_00203_30317_0576.N1	18-DEC-2007 02:14:33	Dark	45.000	54	5The Cen	2.0550	4500.0	90	30317	No
32	GOM_TRA_1PNPDE20071218_021733_000000382064_00203_30317_0577.N1	18-DEC-2007 02:17:33	Dark	38.000	95	Zet Cen	2.5450	26000.	76	30317	No
33	GOM_TRA_1PNPDE20071218_022018_000000422064_00203_30317_0578.N1	18-DEC-2007 02:20:18	Dark	41.500	64	Gam Cen	2.2000	10600.	83	30317	No
34	GOM_TRA_1PNPDE20071218_022158_000000422064_00204_30318_0579.N1	18-DEC-2007 02:21:58	Dark	41.500	99	Del Cen	2.5750	26000.	83	30318	No
35	GOM_TRA_1PNPDE20071218_022626_000000382064_00204_30318_0580.N1	18-DEC-2007 02:26:26	Dark	37.500	124	The Car	2.7640	30000.	75	30318	No
36	GOM_TRA_1PNPDE20071218_022810_000000392064_00204_30318_0581.N1	18-DEC-2007 02:28:10	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30318	No
37	GOM_TRA_1PNPDE20071218_022934_000000422064_00204_30318_0582.N1	18-DEC-2007 02:29:34	Dark	41.500	71	lot Car	2.2460	7700.0	83	30318	No
38	GOM_TRA_1PNPDE20071218_023616_000000462064_00204_30318_0583.N1	18-DEC-2007 02:36:16	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	30318	No
39	GOM_TRA_1PNPDE20071218_024215_000000392064_00204_30318_0584.N1	18-DEC-2007 02:42:15	Straylight	39.000	108	Alp Col	2.6520	15200.	78	30318	No
40	GOM_TRA_1PNPDE20071218_024711_000000462064_00204_30318_0585.N1	18-DEC-2007 02:47:11	Straylight	45.500	101	11Alp Lep	2.5820	7000.0	91	30318	No
41	GOM_TRA_1PNPDE20071218_025014_000000482064_00204_30318_0586.N1	18-DEC-2007 02:50:14	Straylight	47.500	7	19Bet Ori	0.10000	14000.	95	30318	No
42	GOM_TRA_1PNPDE20071218_025732_000000532064_00204_30318_0587.N1	18-DEC-2007 02:57:32	Twilight_stray	53.000	13	87Alp Tau	0.86700	3800.0	106	30318	No
43	GOM_TRA_1PNPDE20071218_025946_000000382064_00204_30318_0588.N1	18-DEC-2007 02:59:46	Bright	37.500	146	25Eta Tau	2.8730	15200.	75	30318	No
44	GOM_TRA_1PNPDE20071218_030155_000000372064_00204_30318_0589.N1	18-DEC-2007 03:01:55	Bright	36.500	150	44Zet Per	2.8900	28000.	73	30318	No
45	GOM_TRA_1PNPDE20071218_030411_000000352064_00204_30318_0590.N1	18-DEC-2007 03:04:11	Bright	35.000	149	45Eps Per	2.8880	30000.	70	30318	No
46	GOM_TRA_1PNPDE20071218_030624_000000352064_00204_30318_0591.N1	18-DEC-2007 03:06:24	Bright	34.500	175	39Del Per	3.0100	19400.	69	30318	No
47	GOM_TRA_1PNPDE20071218_031805_000000372064_00204_30318_0592.N1	18-DEC-2007 03:18:05	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	30318	No
48	GOM_TRA_1PNPDE20071218_032247_000000352064_00204_30318_0751.N1	18-DEC-2007 03:22:47	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	30318	No
49	GOM_TRA_1PNPDE20071218_032606_000000372064_00204_30318_0752.N1	18-DEC-2007 03:26:06	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	30318	No

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



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

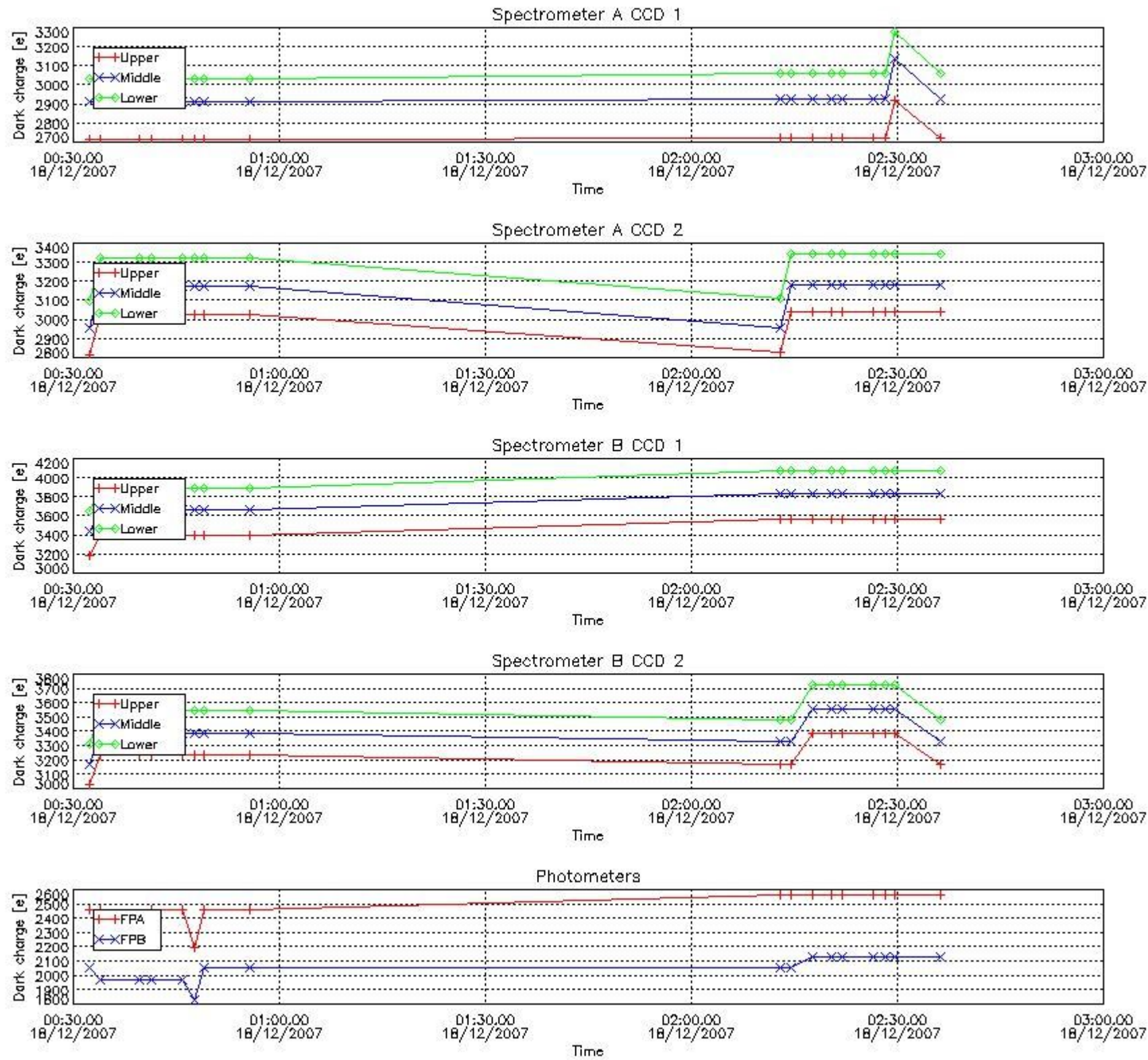
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





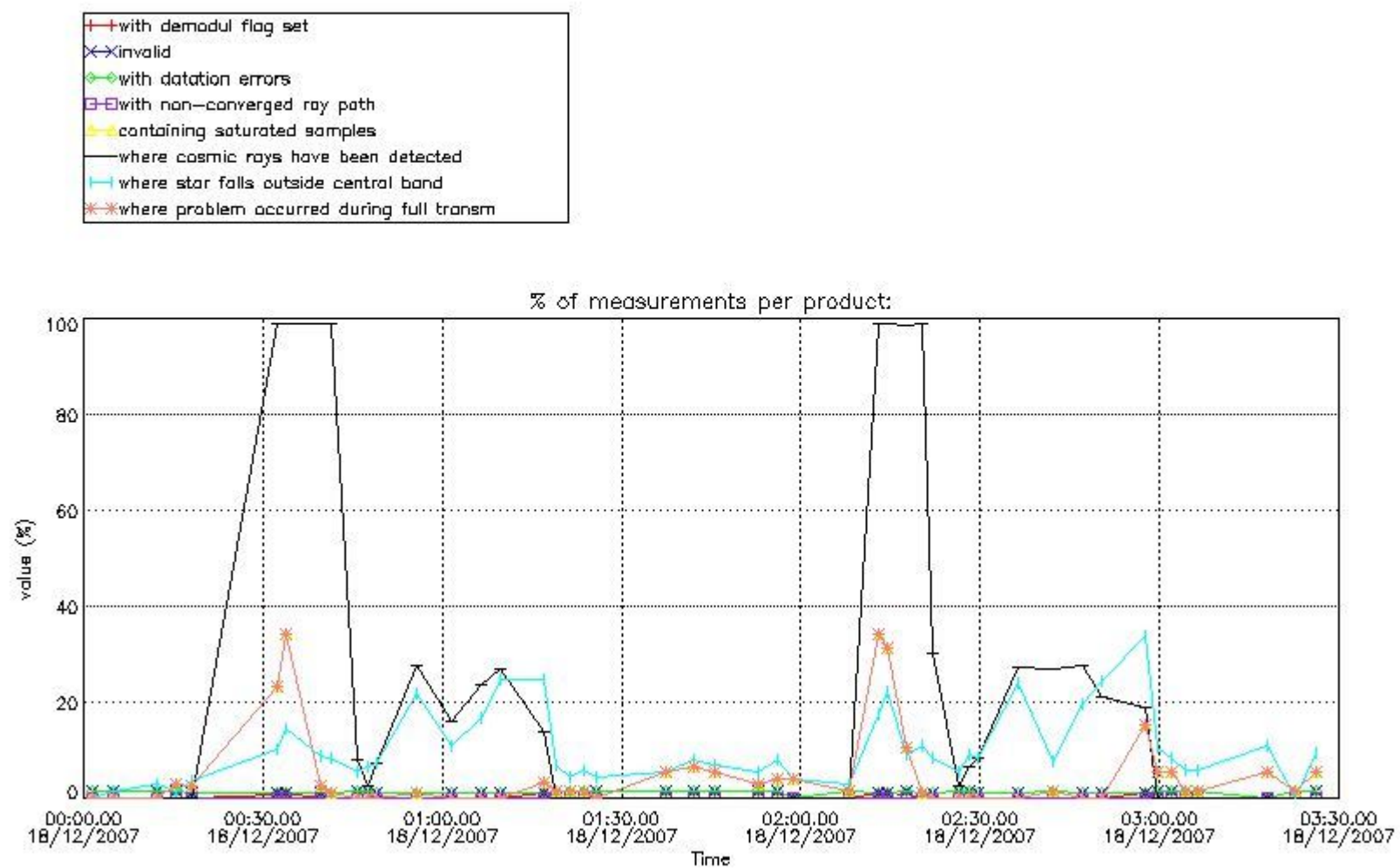
## 5. Demodulation flag and quality information monitoring

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.

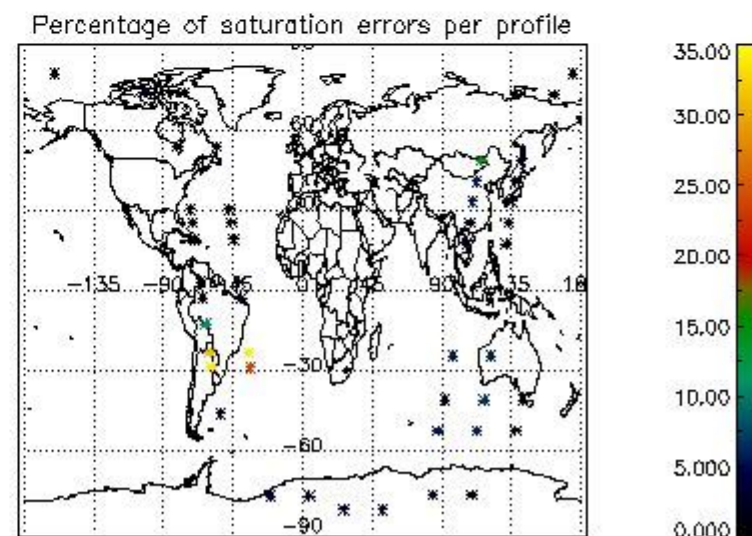
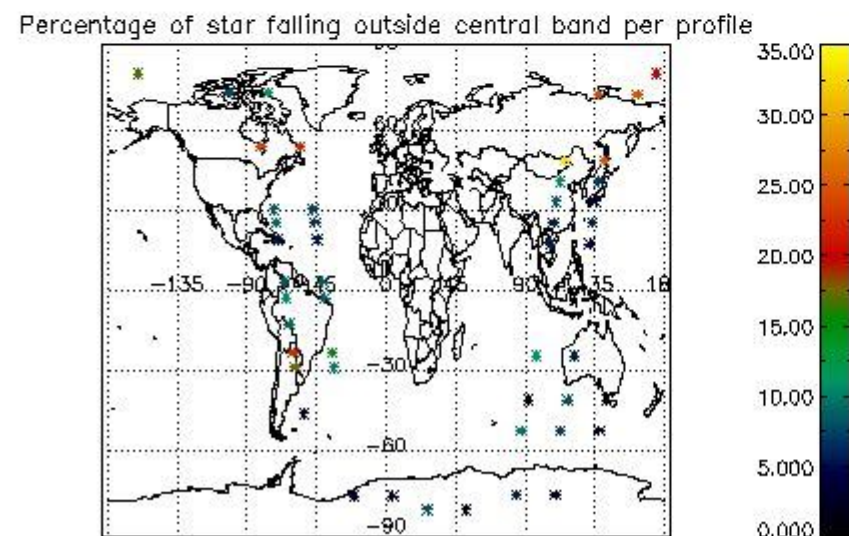
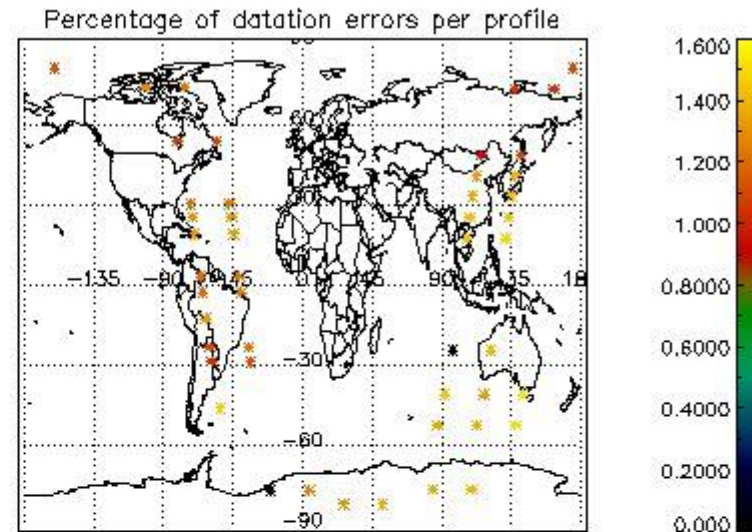
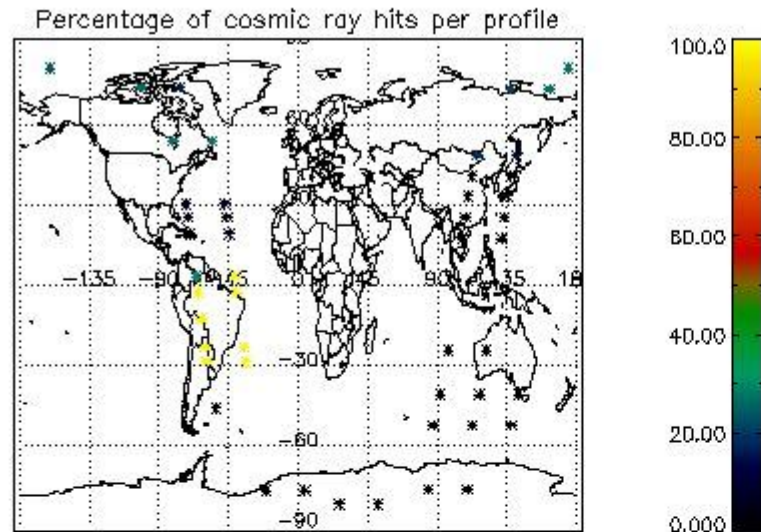
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.0000 %
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)

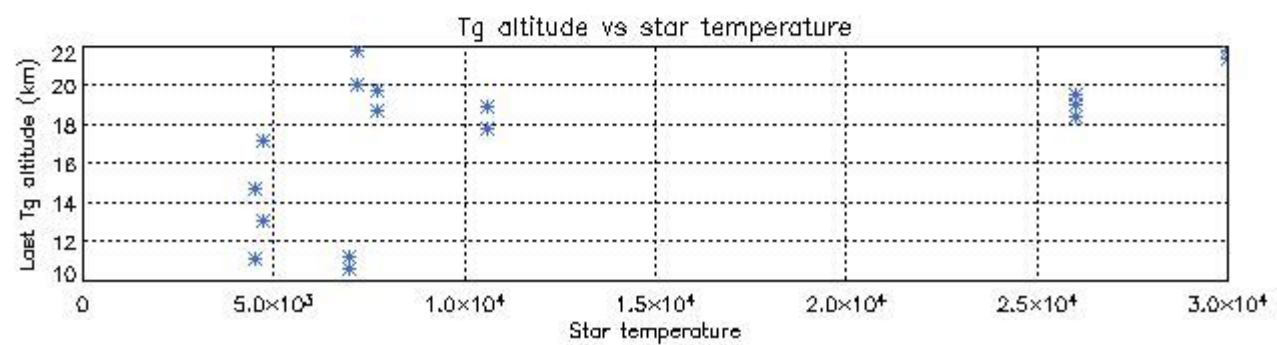
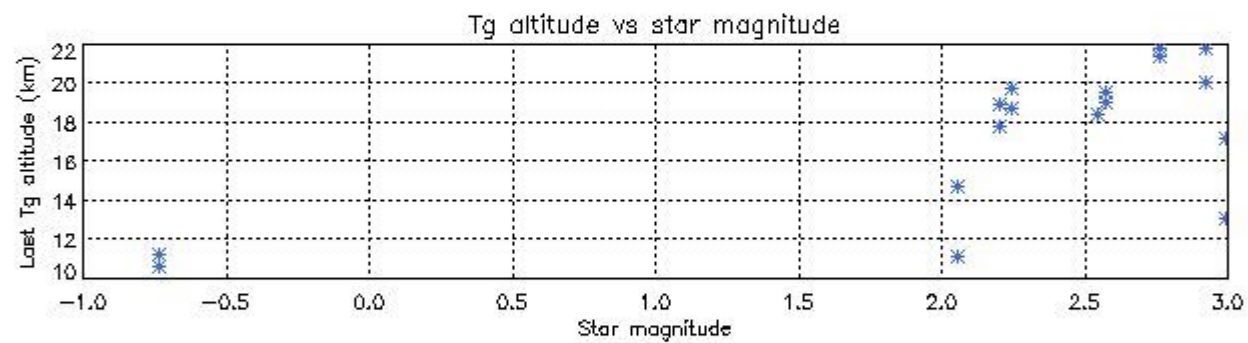
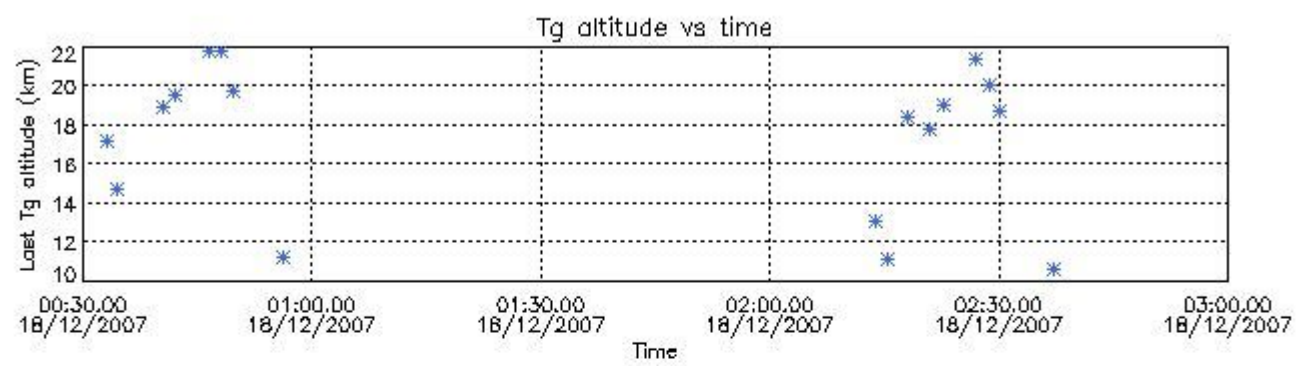
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.366	22.130	NaN
St. deviation:	3.7888	2.9489	NaN
Maximum:	21.833	29.963	NaN
Minimum:	10.608	16.815	NaN
Number of data:	17.000	23.000	NaN

### 6.2 Plot for DARK limb products



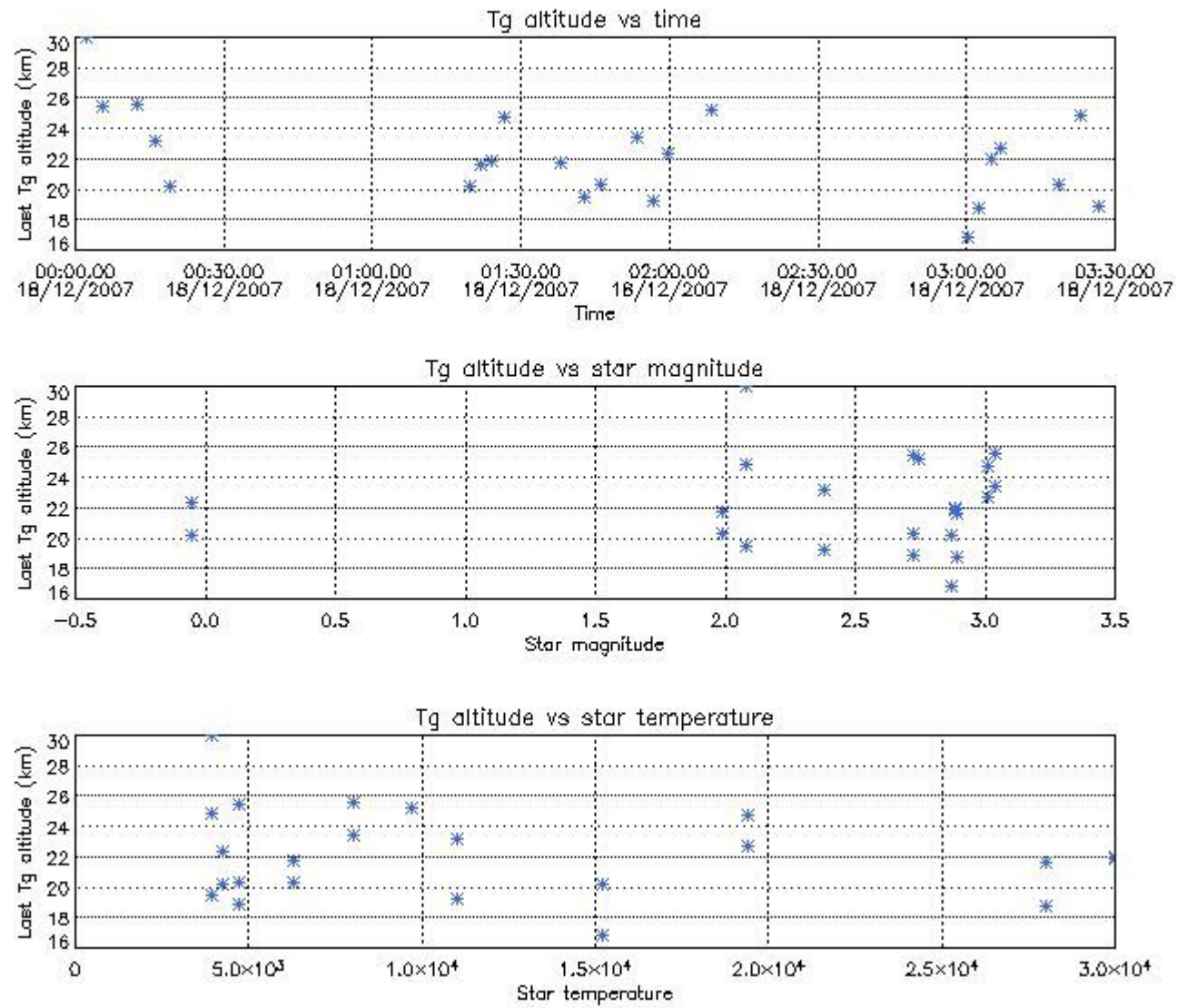
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

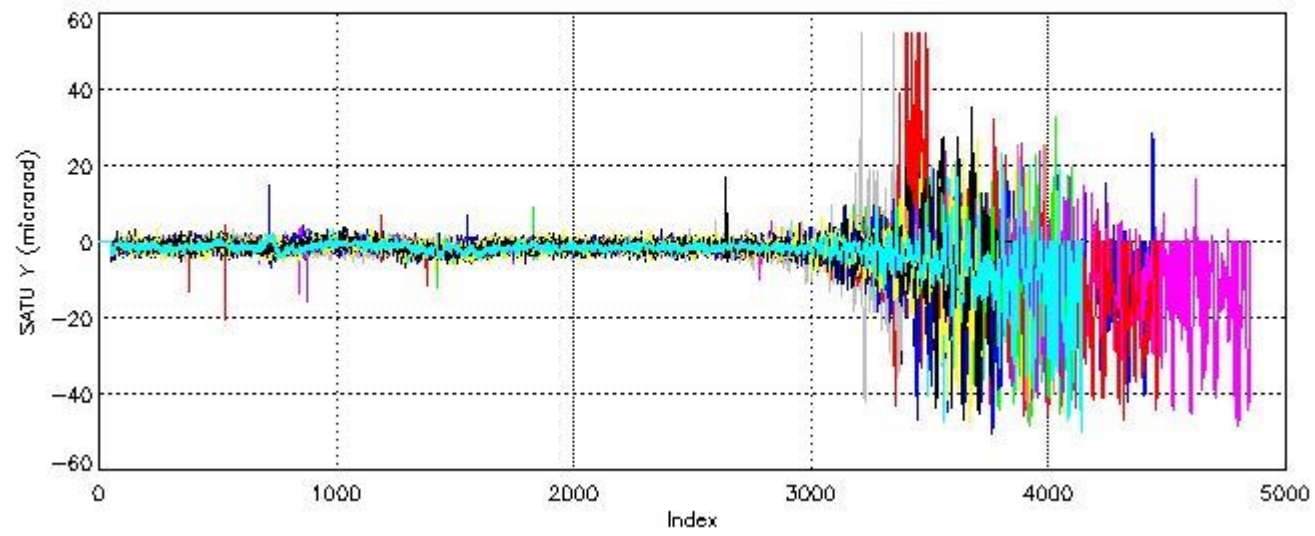
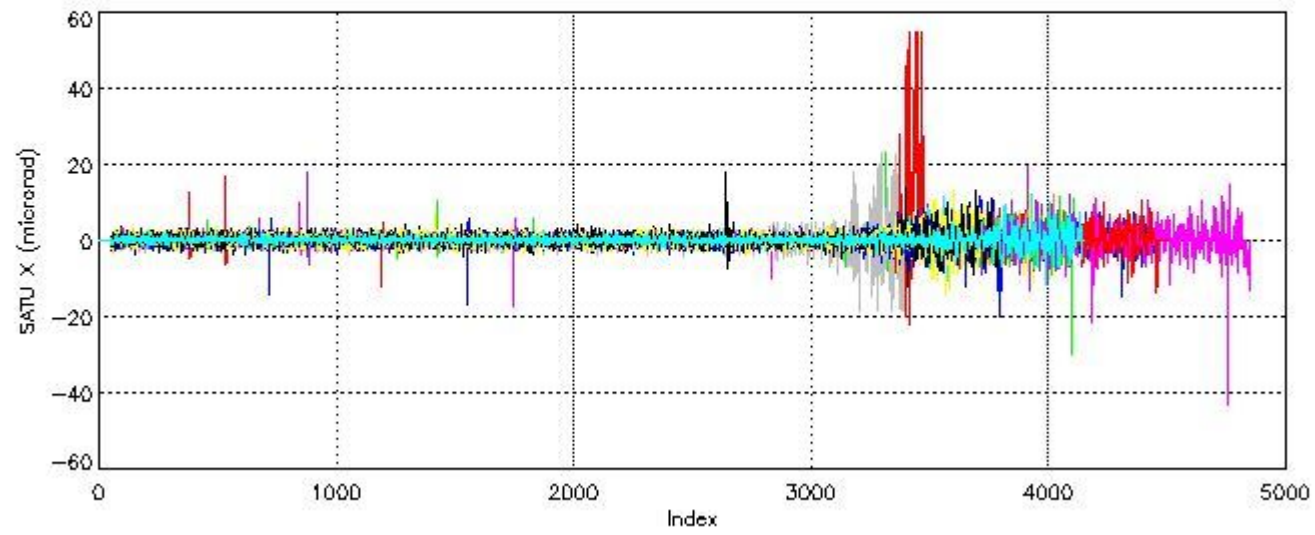


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.14254	-1.2142	0.037110	-1.1713
St. deviation:	0.76071	1.0037	0.93841	1.3202
Maximum:	17.900	14.500	6.4000	5.4000
Minimum:	-14.400	-20.700	-6.2000	-8.1000

Number of data:	15850.	15850.	19150.	19150.
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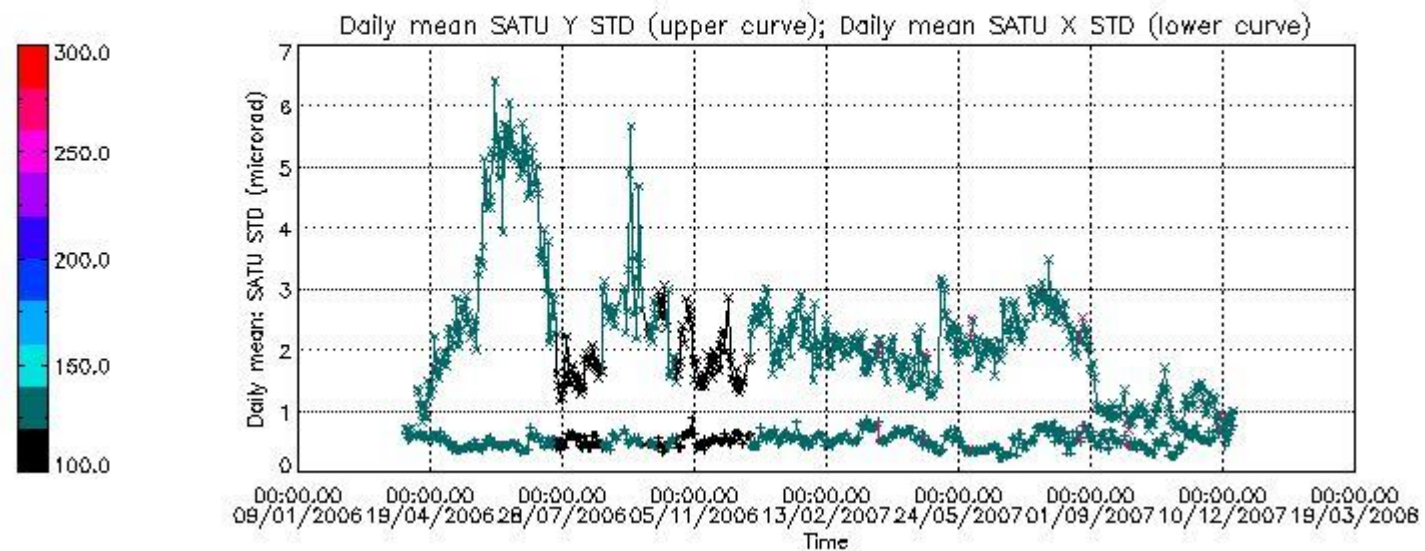
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

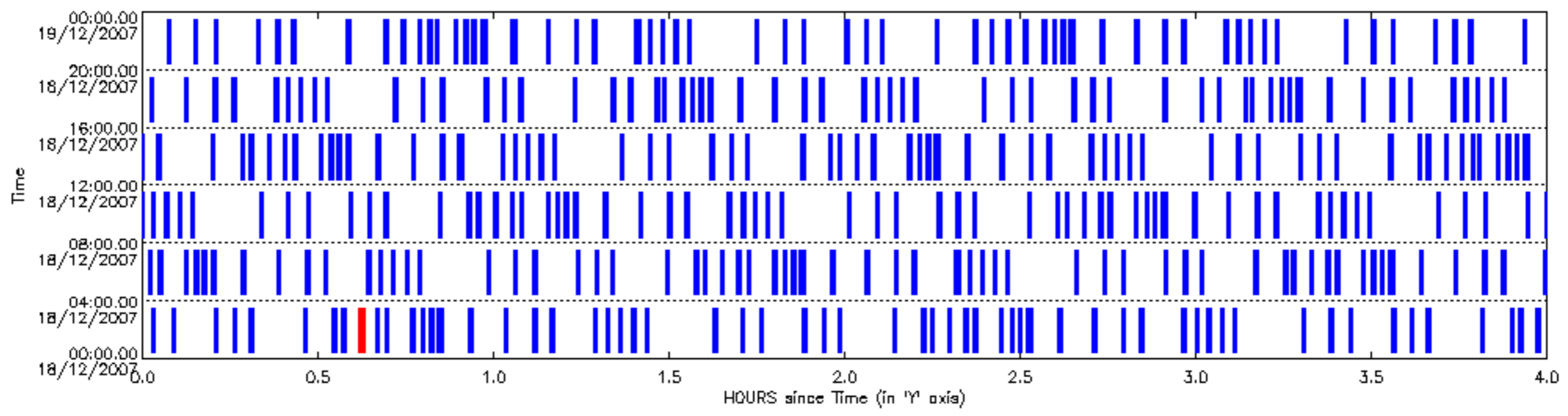


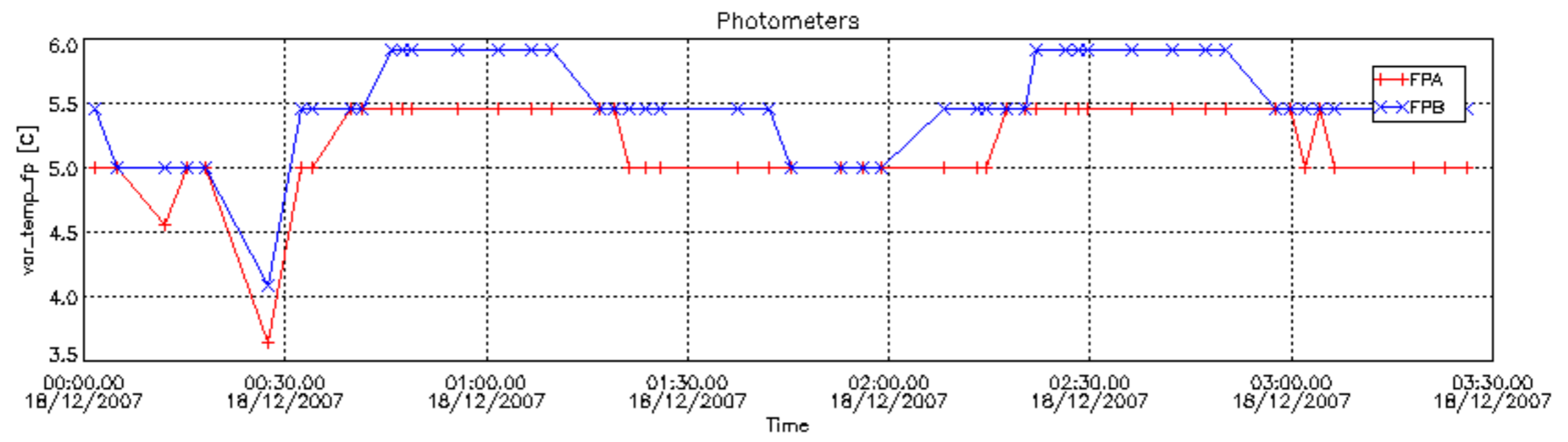
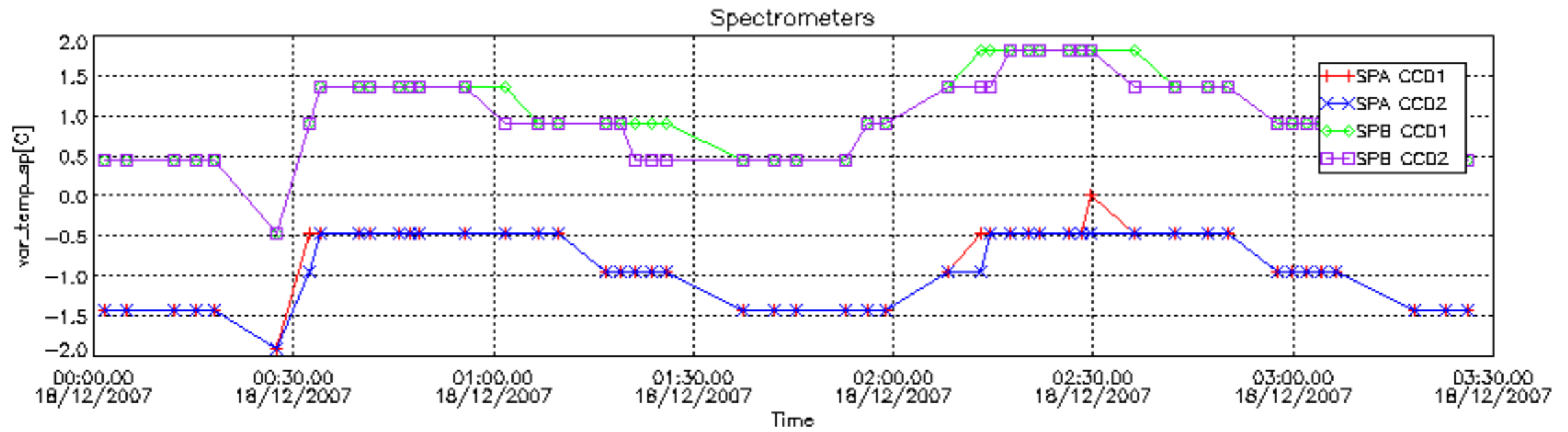
### 8. Auxiliary Data Files used for the production reported in section 2.4

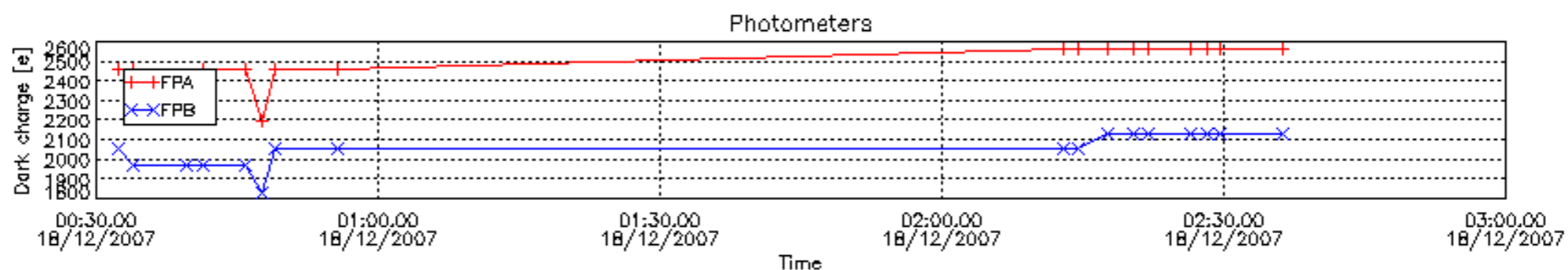
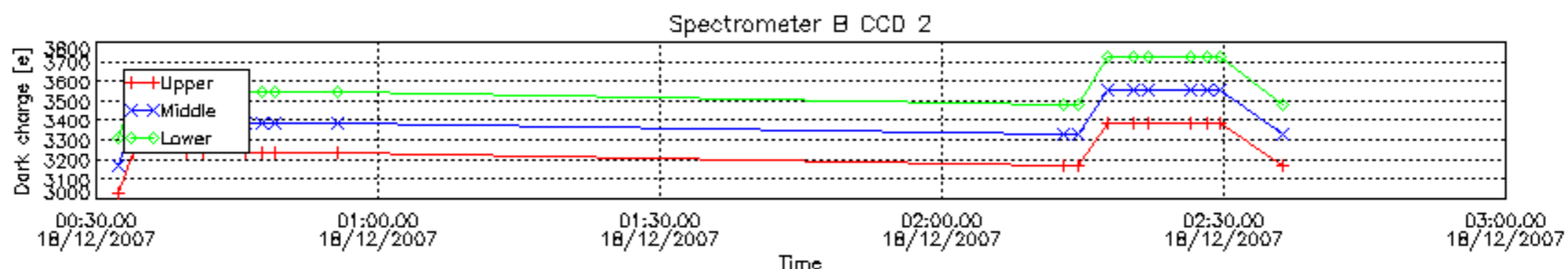
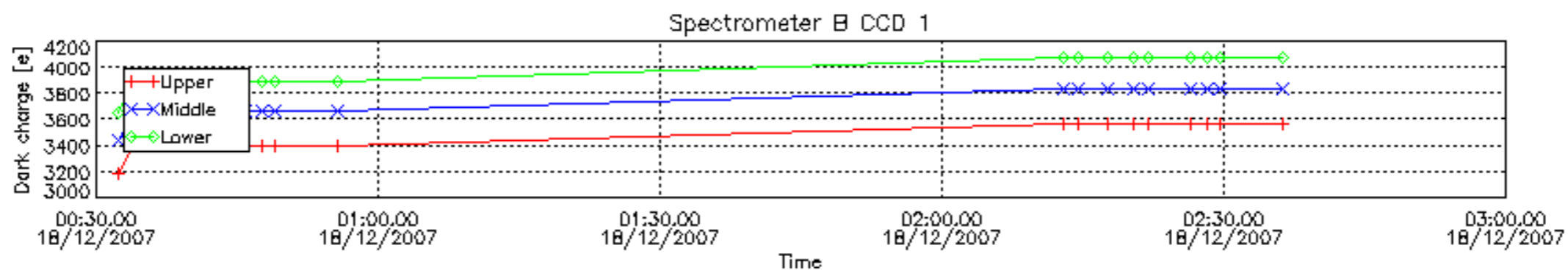
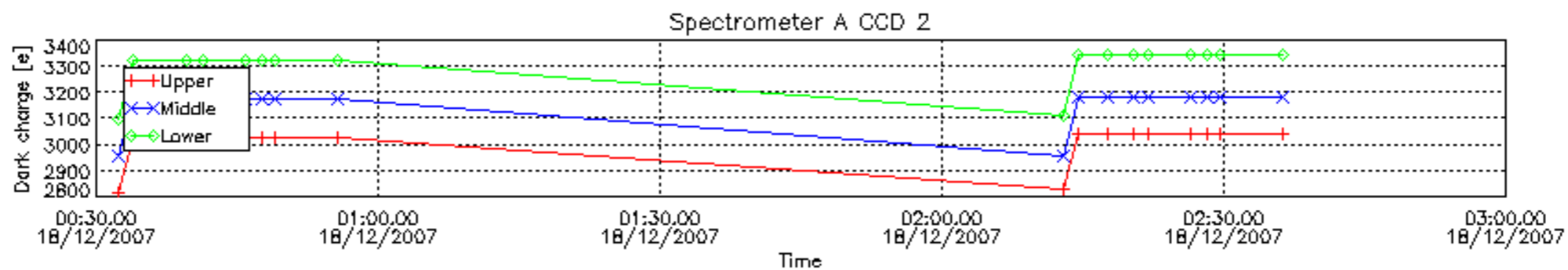
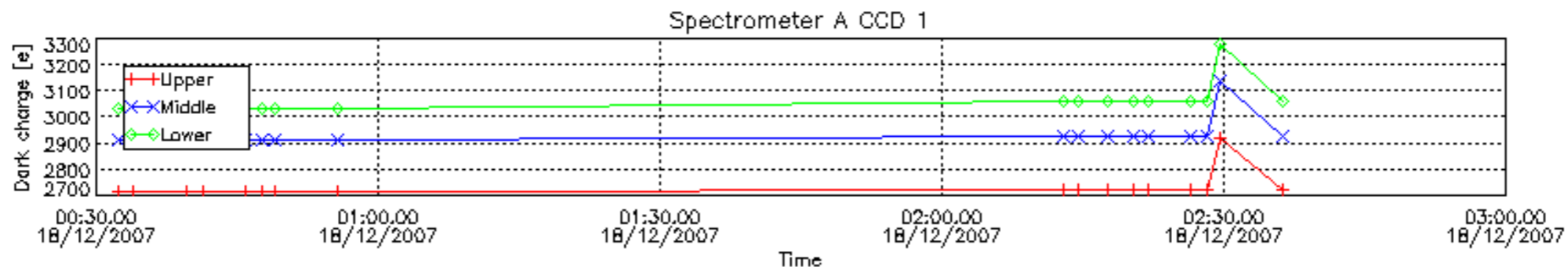
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-DEC-2007 00:01:35
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071214_094104_20071212_000000_20100101_000000	1	18-DEC-2007 00:01:35
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-DEC-2007 00:01:35
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-DEC-2007 00:01:35
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-DEC-2007 00:01:35
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ECMWF_FILE	AUX_ECF_AXNECM20071217_183112_20071218_030000_20071218_150000	48	18-DEC-2007 03:22:47
OPTIONAL_ECMWF_FILE	MISSING	1	18-DEC-2007 00:01:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071217_210008_000060572064_00200_30314_4769.N1	1	18-DEC-2007 00:01:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071217_224624_000057382064_00201_30315_4770.N1	6	18-DEC-2007 00:27:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071218_002721_000054192064_00202_30316_4771.N1	29	18-DEC-2007 02:08:07
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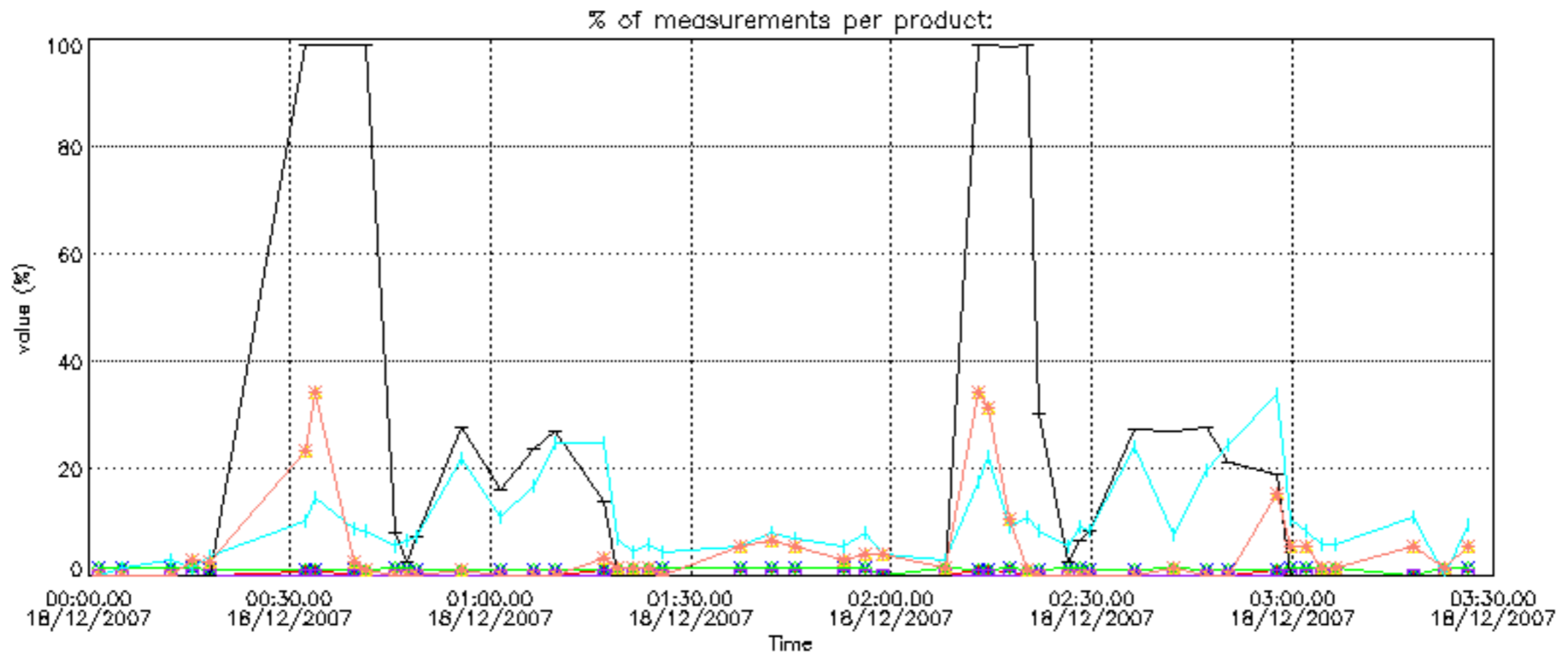




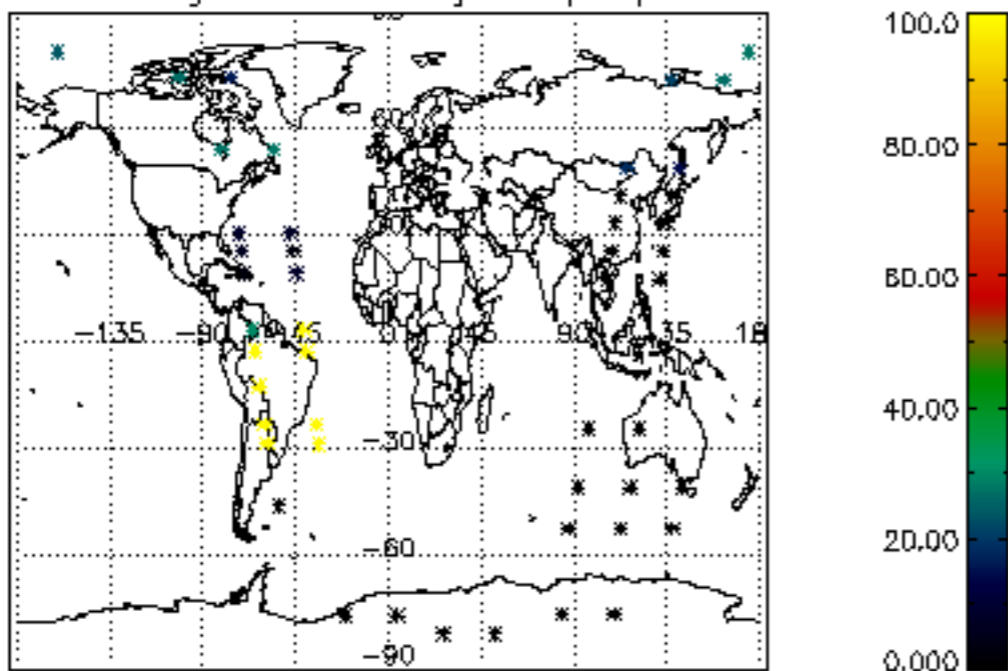




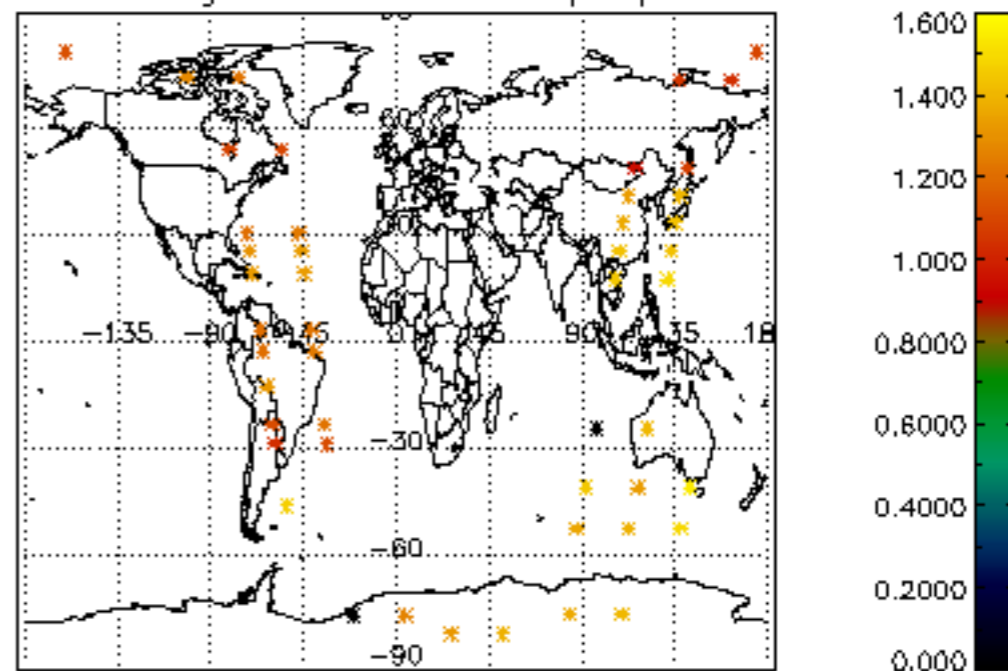




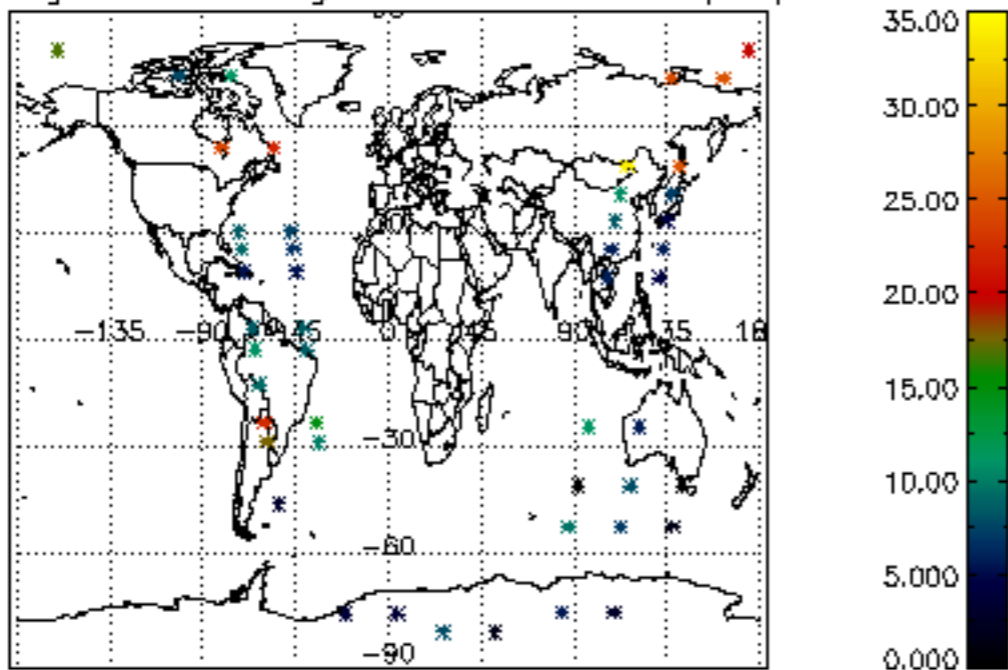
Percentage of cosmic ray hits per profile



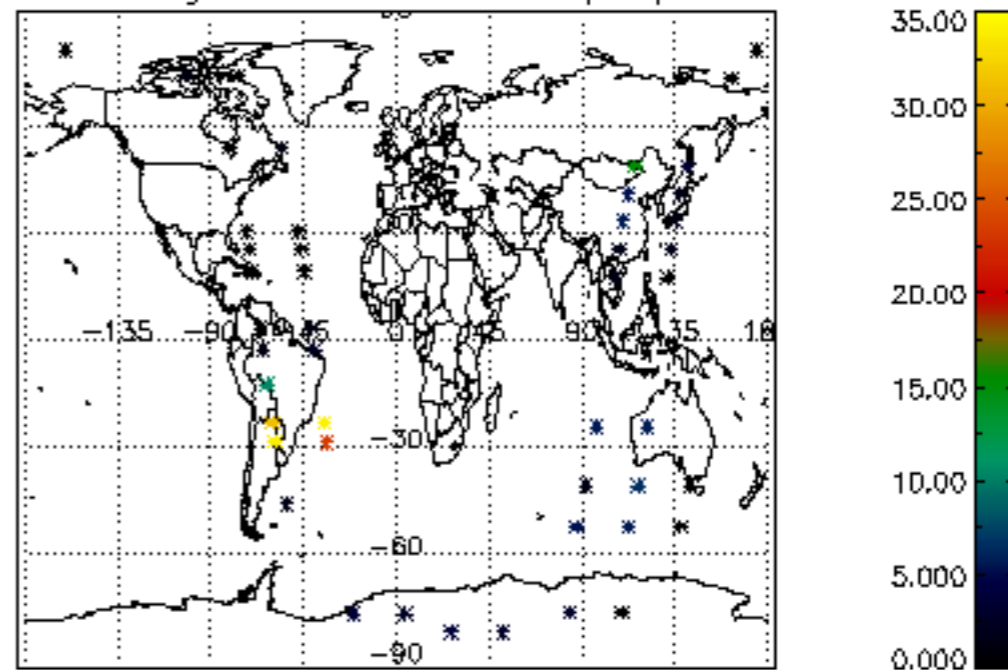
Percentage of datation errors per profile



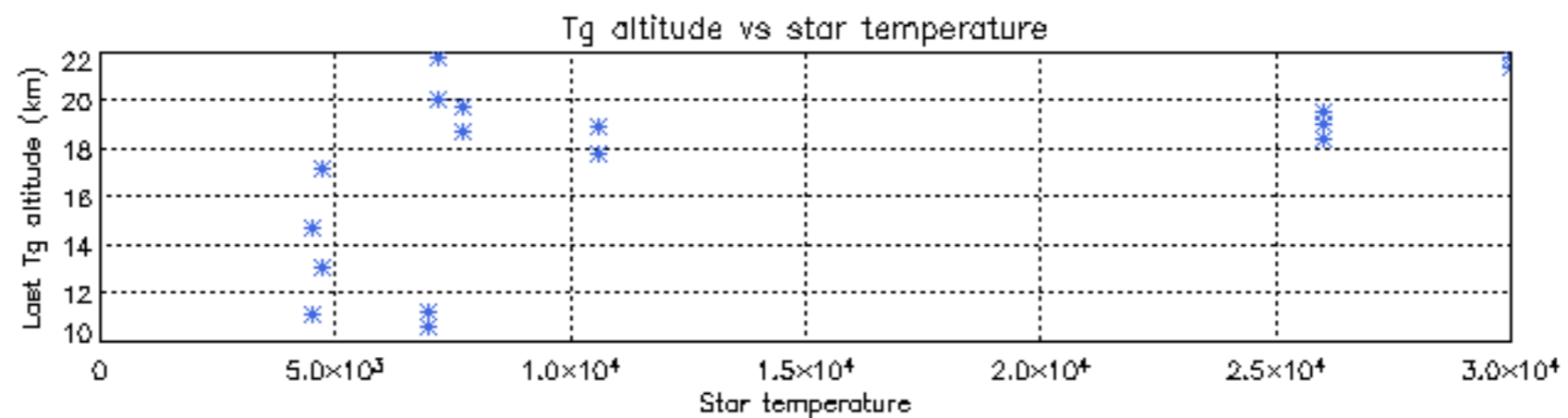
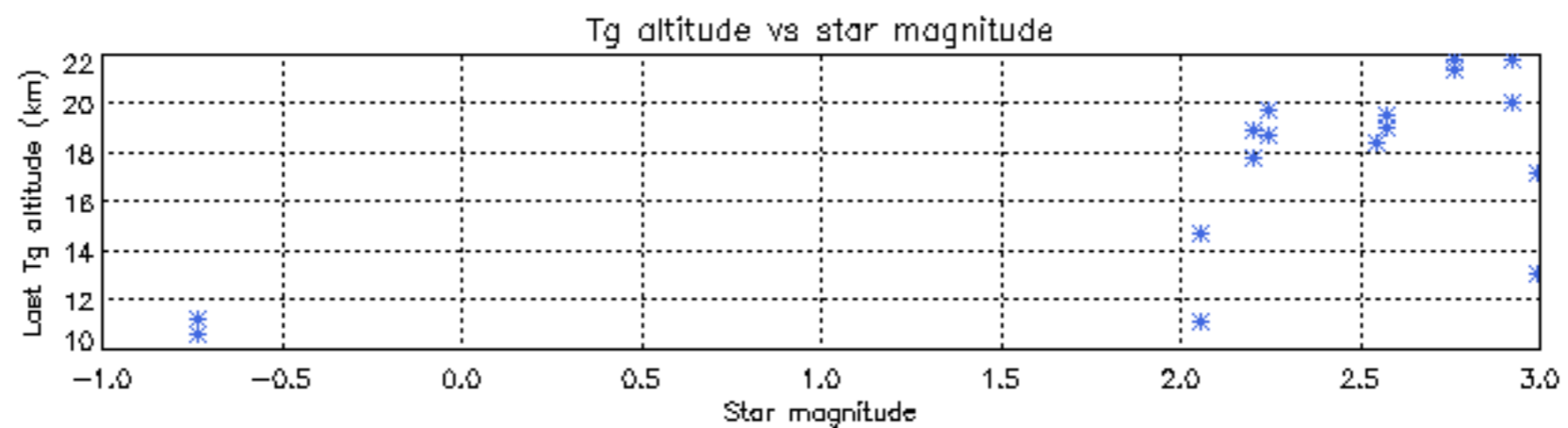
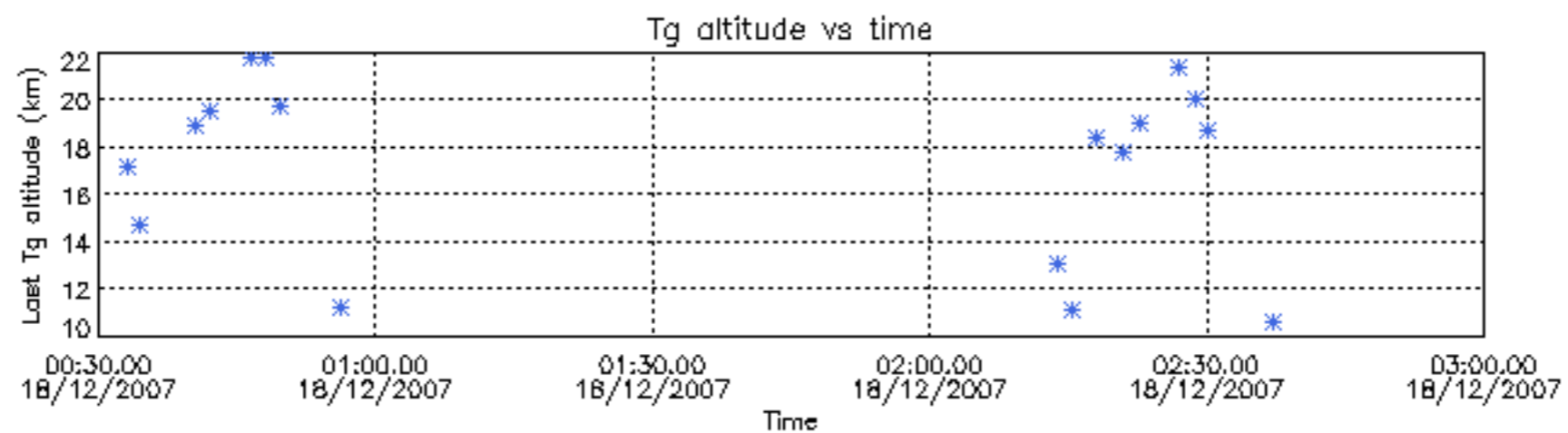
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

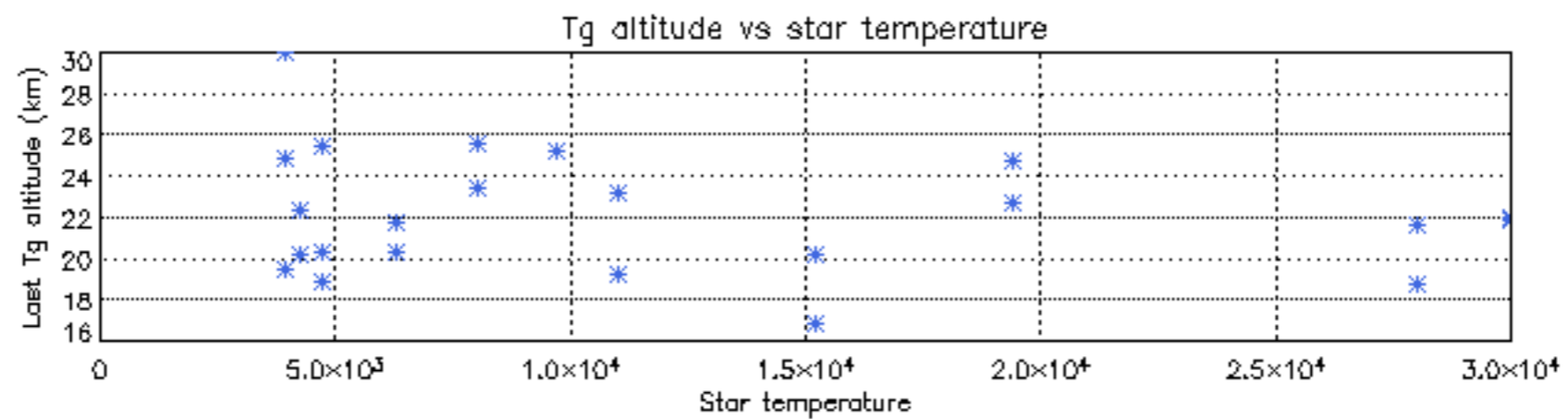
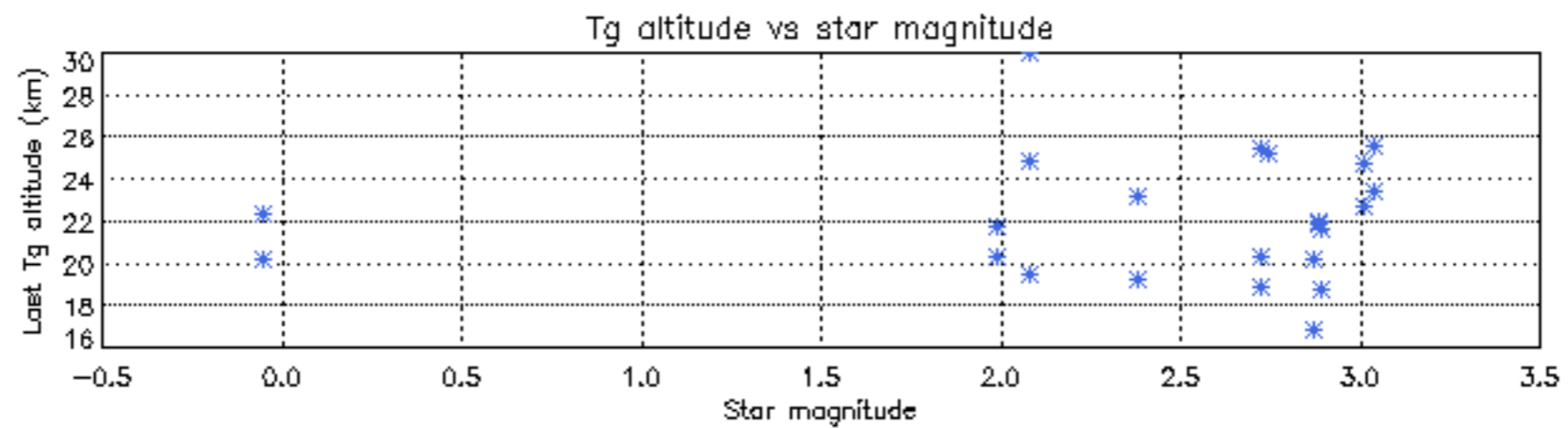
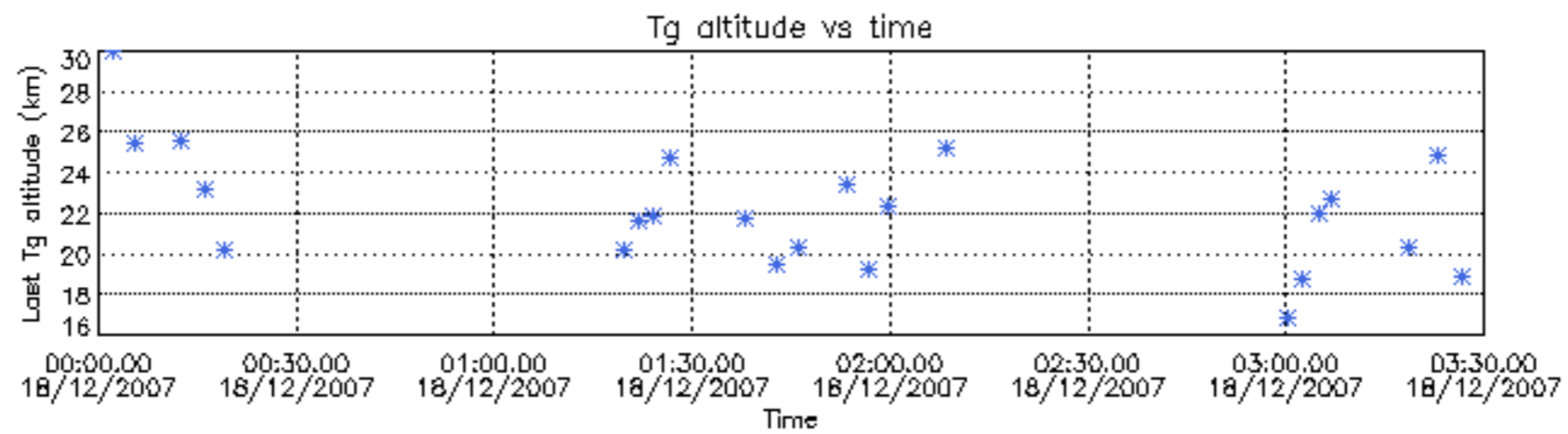


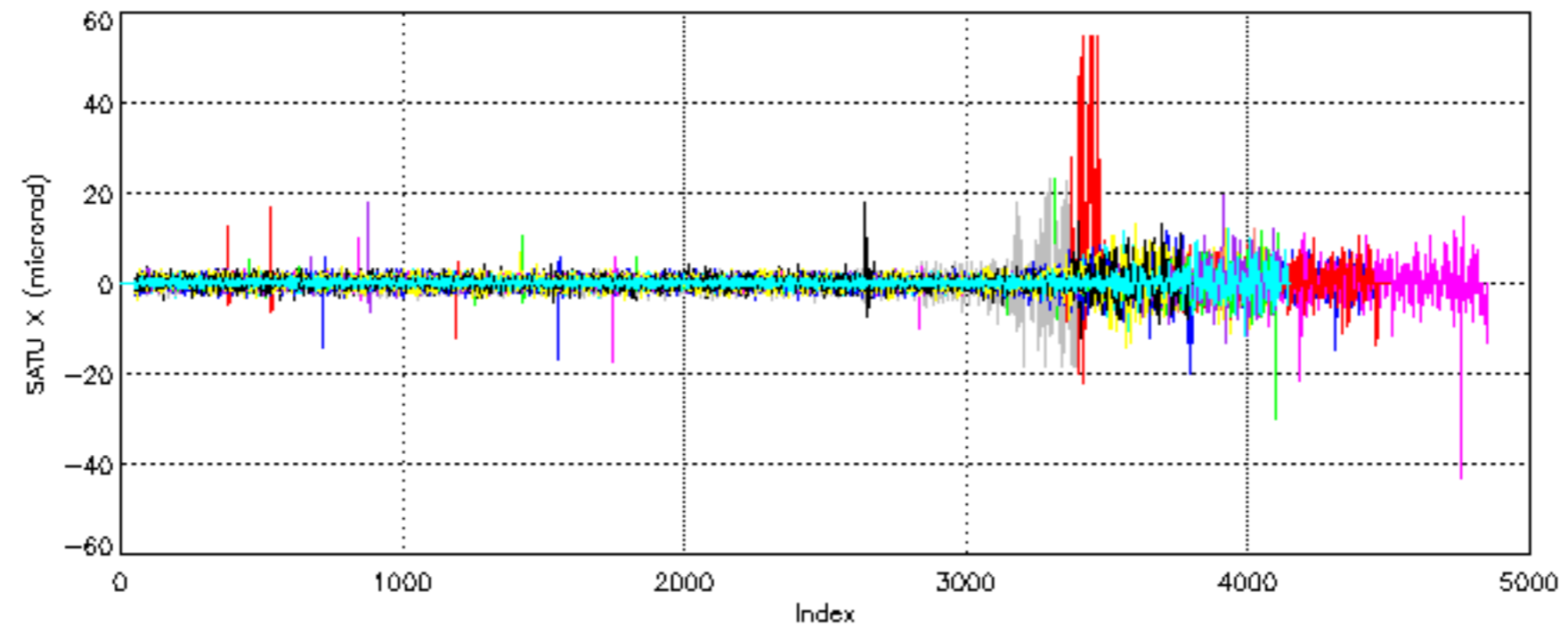
Tangent altitude at which the star is lost

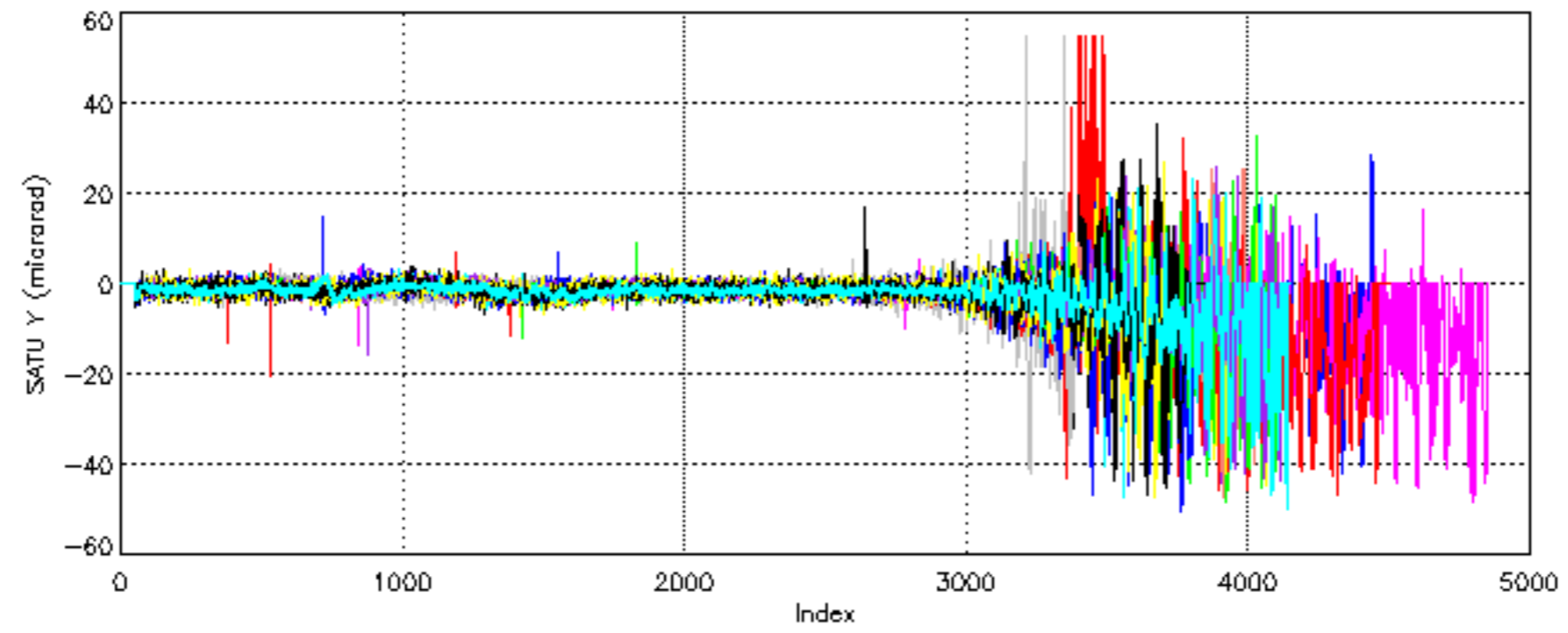


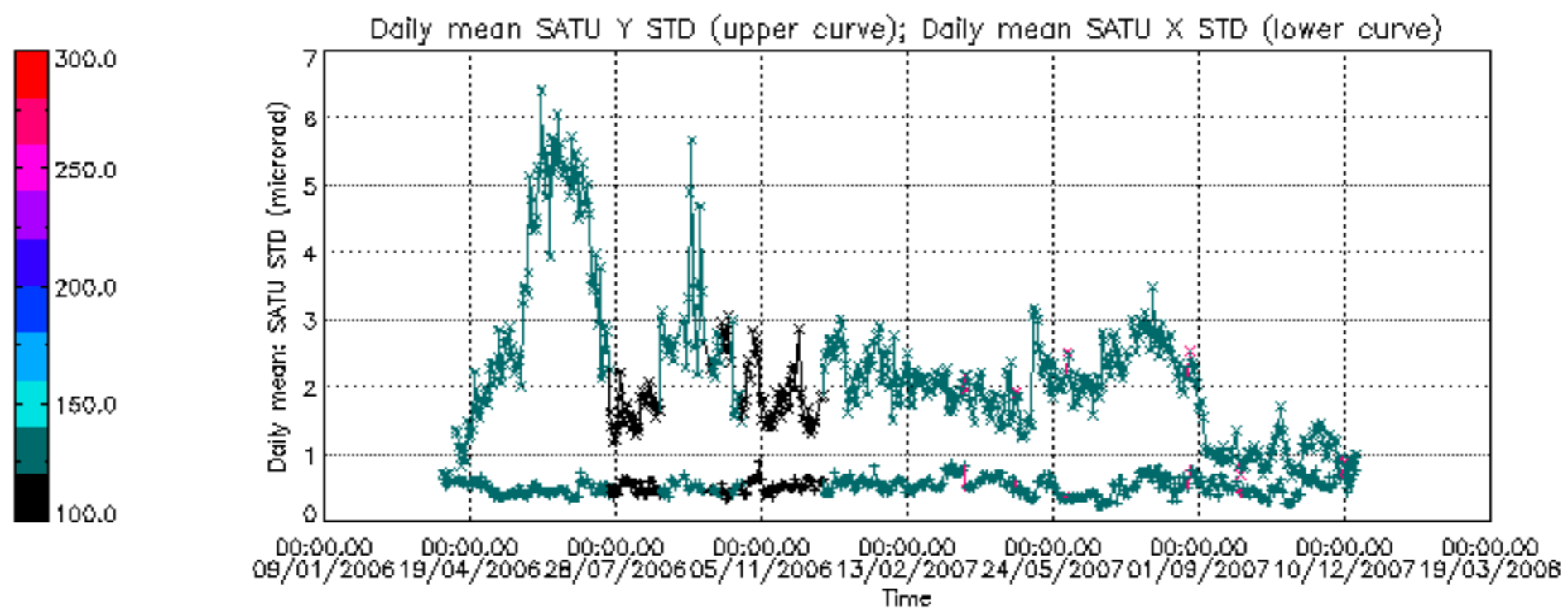


Tangent altitude at which the star is lost











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 23; 6561.9; 19-DEC-2007 18:44:11; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30341  
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 5; 1897.8; 19-DEC-2007 19:07:03; Dark ; 29.0; 72; 34Del Ori ; 2.25; 30000;occ; 58; 0;30342  
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14; 4525.9; 24-DEC-2007 13:51:35; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;30410
15; 4860.9; 24-DEC-2007 13:57:10; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30410
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22; 6402.1; 24-DEC-2007 14:22:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30410
23; 6509.8; 24-DEC-2007 14:24:38; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30410
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13; 3914.0; 24-DEC-2007 15:21:59; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30411
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11; 1582.4; 25-DEC-2007 00:46:43; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;30417
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23; 3914.5; 25-DEC-2007 01:25:35; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30417
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20071225\_090954\_000060672064\_00308\_30422\_9708.N1

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 22; 6515.8; 25-DEC-2007 10:31:56; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30422  
 23; 6609.8; 25-DEC-2007 10:33:30; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30422  
 24; 6714.3; 25-DEC-2007 10:35:14; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30422  
 25; 6985.5; 25-DEC-2007 10:39:46; Dark ; 43.5; 2; Alp Car ; -0.74; 7000;occ; 87; 0;30422  
 26; 7335.0; 25-DEC-2007 10:45:35; Dark ; 39.5; 108; Alp Col ; 2.65; 15200;occ; 79; 0;30422  
 27; 7619.4; 25-DEC-2007 10:50:19; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;30422

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20071225\_105315\_000059012064\_00309\_30423\_9709.N1

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5; 2463.2; 25-DEC-2007 11:04:59; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;30423
6; 2595.6; 25-DEC-2007 11:07:11; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30423
7; 2707.0; 25-DEC-2007 11:09:03; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;30423
8; 2849.4; 25-DEC-2007 11:11:25; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;30423
9; 3422.8; 25-DEC-2007 11:20:59; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30423
10; 3699.3; 25-DEC-2007 11:25:35; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;30423
11; 3915.0; 25-DEC-2007 11:29:11; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30423
12; 4528.1; 25-DEC-2007 11:39:24; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30423
13; 4863.9; 25-DEC-2007 11:45:00; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30423
14; 5154.6; 25-DEC-2007 11:49:51; Bright; 34.0; 104; 27Bet Lib ; 2.61; 13100;occ; 68; 0;30423
15; 5301.3; 25-DEC-2007 11:52:17; Bright; 38.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 77; 0;30423
16; 5701.5; 25-DEC-2007 11:58:57; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;30423
17; 5803.4; 25-DEC-2007 12:00:39; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30423
18; 6038.5; 25-DEC-2007 12:04:34; Dark ; 38.5; 10; Bet Cen ; 0.61; 28000;occ; 77; 0;30423
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26; 7619.4; 25-DEC-2007 12:30:55; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;30423
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4; 2013.8; 25-DEC-2007 12:38:06; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30424
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11; 3915.1; 25-DEC-2007 13:09:47; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30424
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13; 4864.3; 25-DEC-2007 13:25:36; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30424
14; 5155.1; 25-DEC-2007 13:30:27; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;30424
15; 5301.8; 25-DEC-2007 13:32:54; Bright; 38.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 76; 0;30424
16; 5702.1; 25-DEC-2007 13:39:34; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;30424
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18; 6038.9; 25-DEC-2007 13:45:11; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;30424
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20; 6406.2; 25-DEC-2007 13:51:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30424
21; 6516.8; 25-DEC-2007 13:53:09; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30424
22; 6611.0; 25-DEC-2007 13:54:43; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30424
23; 6715.3; 25-DEC-2007 13:56:27; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;30424
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3; 1879.1; 25-DEC-2007 14:16:27; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;30425
4; 2013.8; 25-DEC-2007 14:18:42; Dark ; 44.5; 27; 24Gam Ori ; 1.64; 26000;occ; 89; 0;30425
5; 2190.6; 25-DEC-2007 14:21:38; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30425
6; 2463.8; 25-DEC-2007 14:26:11; Bright; 36.0; 150; 44Zet Per ; 2.89; 28000;occ; 72; 0;30425
7; 2595.8; 25-DEC-2007 14:28:23; Bright; 33.0; 149; 45Eps Per ; 2.89; 30000;occ; 66; 0;30425
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11; 3915.3; 25-DEC-2007 14:50:23; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30425
12; 4528.6; 25-DEC-2007 15:00:36; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30425
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14; 5155.5; 25-DEC-2007 15:11:03; Bright; 34.0; 104; 27Bet Lib ; 2.61; 13100;occ; 68; 0;30425
15; 5302.4; 25-DEC-2007 15:13:30; Bright; 40.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 80; 0;30425

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 17; 5804.2; 25-DEC-2007 15:21:52; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30425  
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 22; 6611.6; 25-DEC-2007 15:35:19; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30425  
 23; 6715.9; 25-DEC-2007 15:37:04; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;30425  
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 25; 7335.8; 25-DEC-2007 15:47:23; Dark ; 39.0; 108; Alp Col ; 2.65; 15200;occ; 78; 0;30425

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20071225\_154723\_000057402064\_00312\_30426\_9712.N1

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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20071225\_172800\_000057342064\_00313\_30427\_9713.N1

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 4; 1879.0; 25-DEC-2007 17:37:39; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30427  
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 11; 3699.0; 25-DEC-2007 18:07:59; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30427  
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 15; 5156.2; 25-DEC-2007 18:32:16; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;30427  
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 18; 5804.9; 25-DEC-2007 18:43:05; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30427  
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 23; 6716.9; 25-DEC-2007 18:58:17; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;30427  
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20071225\_190836\_000057342064\_00314\_30428\_9714.N1

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 3; 1759.2; 25-DEC-2007 19:16:15; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30428  
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12; 3915.5; 25-DEC-2007 19:52:11; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30428  
13; 4529.1; 25-DEC-2007 20:02:25; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30428  
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16; 5303.6; 25-DEC-2007 20:15:19; Dark ; 40.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 81; 0;30428  
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22; 6518.7; 25-DEC-2007 20:35:34; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30428  
23; 6613.4; 25-DEC-2007 20:37:09; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30428  
24; 6717.3; 25-DEC-2007 20:38:53; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;30428  
25; 6987.4; 25-DEC-2007 20:43:23; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;30428

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20071225\_204323\_000043902064\_00315\_30429\_4994.N1

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