

# GOMOS Daily Report 15-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	17DEC2007 06:17:27
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (15DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (16DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

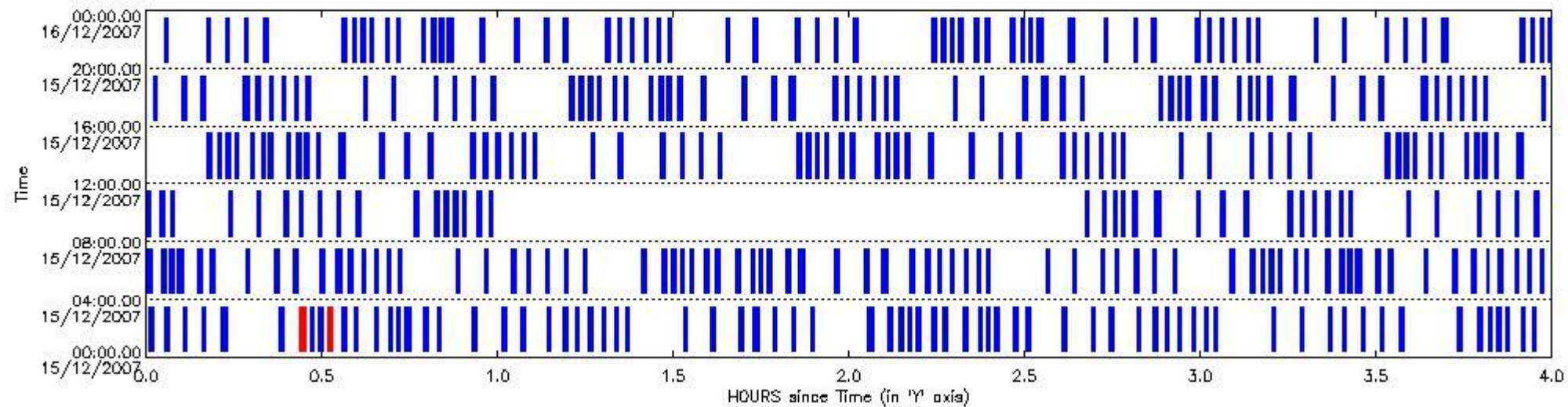
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

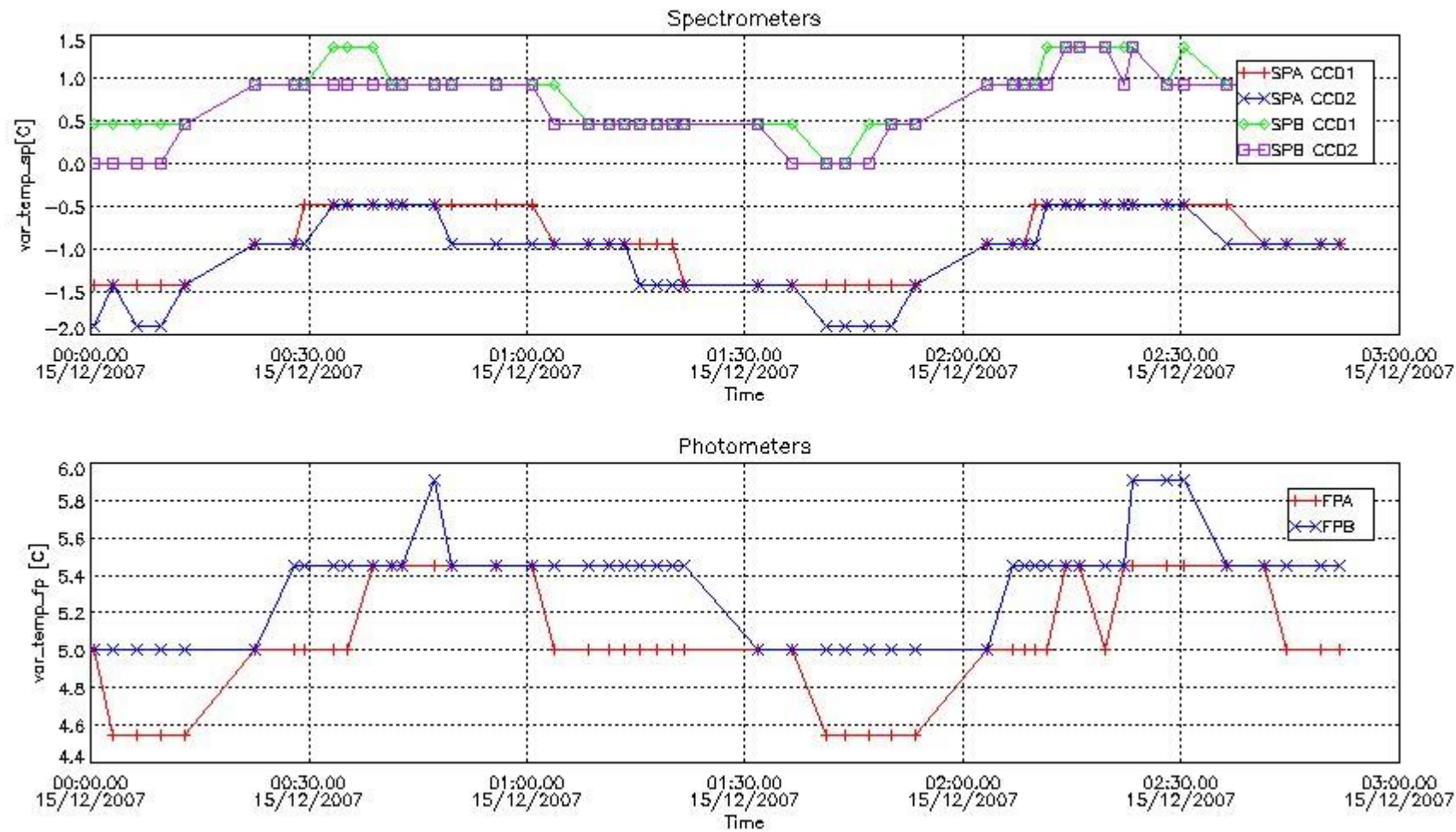
UTC start time	Star name	Star ID	Orbit
15-DEC-2007 00:26:07	46GamHya	169	30273
15-DEC-2007 00:30:54	ZetCen	95	30273

### 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_1PNPDE20071215_000033_000000422064_00159_30273_6936.N1	15-DEC-2007 00:00:33	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	30273	No
2	GOM_TRA_1PNPDE20071215_000304_000000572064_00159_30273_6937.N1	15-DEC-2007 00:03:04	Bright	57.000	39	85Eta UMa	1.8540	24000.	114	30273	No
3	GOM_TRA_1PNPDE20071215_000622_000000362064_00159_30273_6938.N1	15-DEC-2007 00:06:22	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	30273	No
4	GOM_TRA_1PNPDE20071215_000933_000000362064_00159_30273_6939.N1	15-DEC-2007 00:09:33	Bright	36.000	83		2.3780	11000.	72	30273	No
5	GOM_TRA_1PNPDE20071215_001250_000000592064_00159_30273_6940.N1	15-DEC-2007 00:12:50	Bright	59.000	111	8Eta Boo	2.6800	6000.0	118	30273	No
6	GOM_TRA_1PNPDE20071215_002237_000000492064_00159_30273_7064.N1	15-DEC-2007 00:22:37	Twilight	48.500	15	67Alp Vir	0.97600	28000.	97	30273	No
7	GOM_TRA_1PNPDE20071215_002753_000000432064_00159_30273_7065.N1	15-DEC-2007 00:27:53	Twilight	43.000	54	5The Cen	2.0550	4500.0	86	30273	No
8	GOM_TRA_1PNPDE20071215_002922_000000402064_00159_30273_7066.N1	15-DEC-2007 00:29:22	Dark	39.500	123	lot Cen	2.7500	10200.	79	30273	No
9	GOM_TRA_1PNPDE20071215_003329_000000422064_00159_30273_7067.N1	15-DEC-2007 00:33:29	Dark	42.000	64	Gam Cen	2.2000	10600.	84	30273	No

10	GOM_TRA_1PNPDE20071215_003524_000000382064_00160_30274_7068.N1	15-DEC-2007 00:35:24	Dark	38.000	20	Bet Cru	1.2530	30000.	76	30274	No
11	GOM_TRA_1PNPDE20071215_003852_000000432064_00160_30274_7069.N1	15-DEC-2007 00:38:52	Dark	43.000	113	Mu Vel	2.6920	5000.0	86	30274	No
12	GOM_TRA_1PNPDE20071215_004127_000000382064_00160_30274_7070.N1	15-DEC-2007 00:41:27	Dark	38.000	159	Ups Car	2.9200	7200.0	76	30274	No
13	GOM_TRA_1PNPDE20071215_004246_000000402064_00160_30274_7071.N1	15-DEC-2007 00:42:46	Dark	39.500	71	lot Car	2.2460	7700.0	79	30274	No
14	GOM_TRA_1PNPDE20071215_004724_000000492064_00160_30274_7072.N1	15-DEC-2007 00:47:24	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	30274	No
15	GOM_TRA_1PNPDE20071215_004938_000000452064_00160_30274_7073.N1	15-DEC-2007 00:49:38	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	30274	No
16	GOM_TRA_1PNPDE20071215_005542_000000422064_00160_30274_7074.N1	15-DEC-2007 00:55:42	Straylight	42.000	108	Alp Col	2.6520	15200.	84	30274	No
17	GOM_TRA_1PNPDE20071215_010044_000000452064_00160_30274_7075.N1	15-DEC-2007 01:00:44	Straylight	45.000	101	11Alp Lep	2.5820	7000.0	90	30274	No
18	GOM_TRA_1PNPDE20071215_010351_000000482064_00160_30274_7076.N1	15-DEC-2007 01:03:51	Straylight	48.000	7	19Bet Ori	0.10000	14000.	96	30274	No
19	GOM_TRA_1PNPDE20071215_010832_000000342064_00160_30274_7077.N1	15-DEC-2007 01:08:32	Twilight	34.000	27	24Gam Ori	1.6360	26000.	68	30274	No
20	GOM_TRA_1PNPDE20071215_011114_000000512064_00160_30274_7078.N1	15-DEC-2007 01:11:14	Twilight	51.000	13	87Alp Tau	0.86700	3800.0	102	30274	No
21	GOM_TRA_1PNPDE20071215_011322_000000362064_00160_30274_7079.N1	15-DEC-2007 01:13:22	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	30274	No
22	GOM_TRA_1PNPDE20071215_011532_000000352064_00160_30274_7080.N1	15-DEC-2007 01:15:32	Bright	35.000	150	44Zet Per	2.8900	28000.	70	30274	No
23	GOM_TRA_1PNPDE20071215_011750_000000352064_00160_30274_7081.N1	15-DEC-2007 01:17:50	Bright	34.500	149	45Eps Per	2.8880	30000.	69	30274	No
24	GOM_TRA_1PNPDE20071215_012001_000000342064_00160_30274_7082.N1	15-DEC-2007 01:20:01	Bright	34.000	175	39Del Per	3.0100	19400.	68	30274	No
25	GOM_TRA_1PNPDE20071215_012145_000000352064_00160_30274_7083.N1	15-DEC-2007 01:21:45	Bright	34.500	160	23Gam Per	2.9300	4700.0	69	30274	No
26	GOM_TRA_1PNPDE20071215_013144_000000372064_00160_30274_7084.N1	15-DEC-2007 01:31:44	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	30274	No
27	GOM_TRA_1PNPDE20071215_013627_000000352064_00160_30274_7085.N1	15-DEC-2007 01:36:27	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	30274	No
28	GOM_TRA_1PNPDE20071215_014109_000000432064_00160_30274_7086.N1	15-DEC-2007 01:41:09	Bright	42.500	32	77Eps UMa	1.7630	11000.	85	30274	No
29	GOM_TRA_1PNPDE20071215_014340_000000572064_00160_30274_7087.N1	15-DEC-2007 01:43:40	Bright	57.000	39	85Eta UMa	1.8540	24000.	114	30274	No
30	GOM_TRA_1PNPDE20071215_014658_000000362064_00160_30274_7088.N1	15-DEC-2007 01:46:58	Bright	35.500	180	27Gam Boo	3.0400	8000.0	71	30274	No
31	GOM_TRA_1PNPDE20071215_015009_000000352064_00160_30274_7089.N1	15-DEC-2007 01:50:09	Bright	35.000	83		2.3780	11000.	70	30274	No
32	GOM_TRA_1PNPDE20071215_015326_000000402064_00160_30274_7090.N1	15-DEC-2007 01:53:26	Bright	40.000	111	8Eta Boo	2.6800	6000.0	80	30274	No
33	GOM_TRA_1PNPDE20071215_020314_000000522064_00160_30274_7218.N1	15-DEC-2007 02:03:14	Twilight	52.000	15	67Alp Vir	0.97600	28000.	104	30274	No
34	GOM_TRA_1PNPDE20071215_020643_000000472064_00160_30274_7219.N1	15-DEC-2007 02:06:43	Twilight	47.000	169	46Gam Hya	2.9910	4700.0	94	30274	No
35	GOM_TRA_1PNPDE20071215_020829_000000442064_00160_30274_7220.N1	15-DEC-2007 02:08:29	Twilight	44.000	54	5The Cen	2.0550	4500.0	88	30274	No
36	GOM_TRA_1PNPDE20071215_020959_000000402064_00160_30274_7221.N1	15-DEC-2007 02:09:59	Dark	39.500	123	lot Cen	2.7500	10200.	79	30274	No
37	GOM_TRA_1PNPDE20071215_021131_000000382064_00160_30274_7222.N1	15-DEC-2007 02:11:31	Dark	37.500	95	Zet Cen	2.5450	26000.	75	30274	No
38	GOM_TRA_1PNPDE20071215_021406_000000432064_00160_30274_7223.N1	15-DEC-2007 02:14:06	Dark	42.500	64	Gam Cen	2.2000	10600.	85	30274	No
39	GOM_TRA_1PNPDE20071215_021600_000000412064_00161_30275_7224.N1	15-DEC-2007 02:16:00	Dark	40.500	20	Bet Cru	1.2530	30000.	81	30275	No
40	GOM_TRA_1PNPDE20071215_021929_000000452064_00161_30275_7225.N1	15-DEC-2007 02:19:29	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	30275	No
41	GOM_TRA_1PNPDE20071215_022203_000000392064_00161_30275_7226.N1	15-DEC-2007 02:22:03	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30275	No
42	GOM_TRA_1PNPDE20071215_022322_000000402064_00161_30275_7227.N1	15-DEC-2007 02:23:22	Dark	40.000	71	lot Car	2.2460	7700.0	80	30275	No
43	GOM_TRA_1PNPDE20071215_022800_000000502064_00161_30275_7228.N1	15-DEC-2007 02:28:00	Dark	49.500	34	Gam2Vel	1.7930	23000.	99	30275	No
44	GOM_TRA_1PNPDE20071215_023014_000000482064_00161_30275_7229.N1	15-DEC-2007 02:30:14	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	30275	No
45	GOM_TRA_1PNPDE20071215_023618_000000432064_00161_30275_7230.N1	15-DEC-2007 02:36:18	Straylight	42.500	108	Alp Col	2.6520	15200.	85	30275	No
46	GOM_TRA_1PNPDE20071215_024120_000000462064_00161_30275_7231.N1	15-DEC-2007 02:41:20	Straylight	45.500	101	11Alp Lep	2.5820	7000.0	91	30275	No
47	GOM_TRA_1PNPDE20071215_024427_000000492064_00161_30275_7232.N1	15-DEC-2007 02:44:27	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	30275	No
48	GOM_TRA_1PNPDE20071215_024908_000000342064_00161_30275_7233.N1	15-DEC-2007 02:49:08	Twilight	34.000	27	24Gam Ori	1.6360	26000.	68	30275	No
49	GOM_TRA_1PNPDE20071215_025150_000000472064_00161_30275_7234.N1	15-DEC-2007 02:51:50	Twilight	46.500	13	87Alp Tau	0.86700	3800.0	93	30275	No

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



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

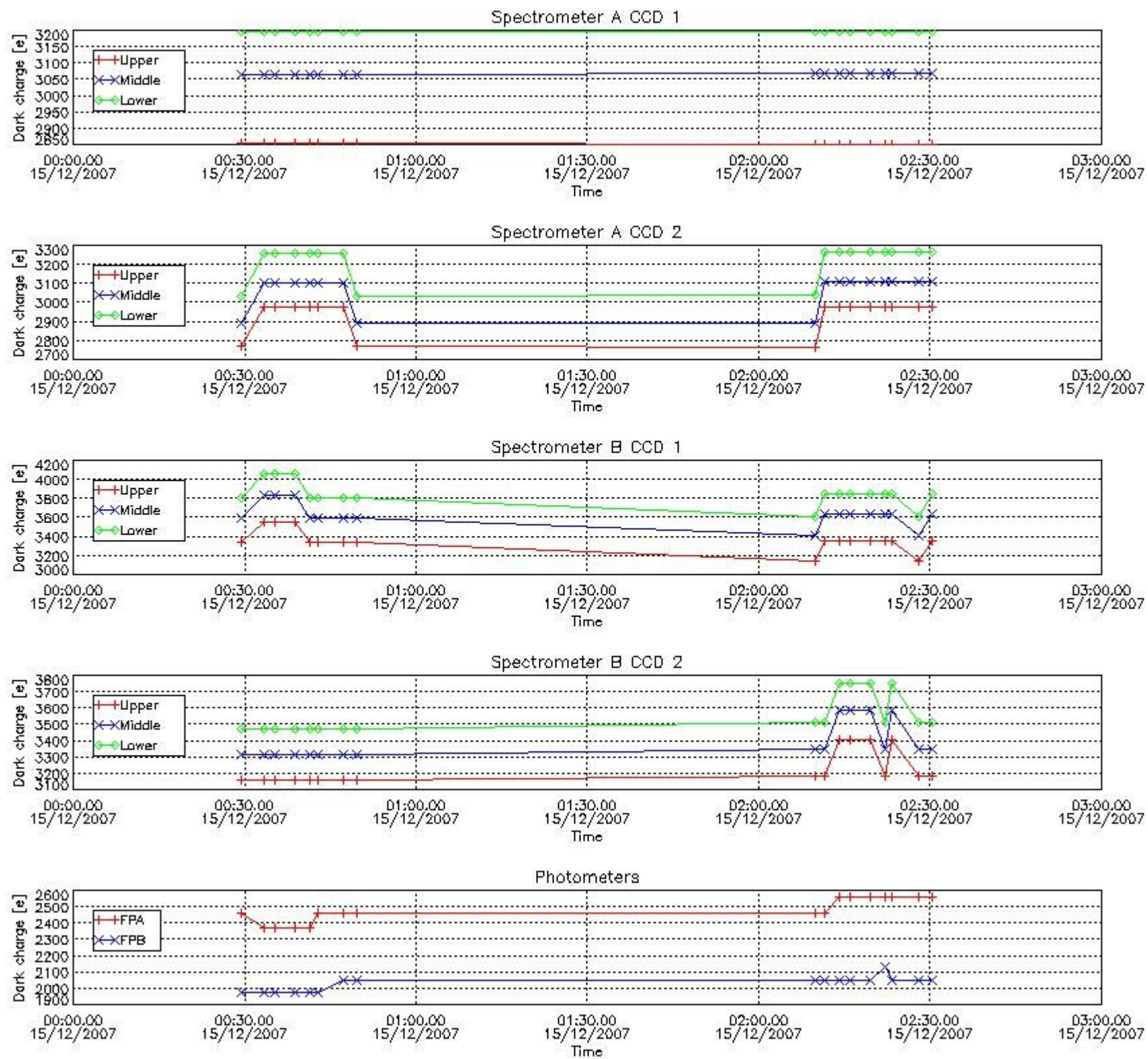
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





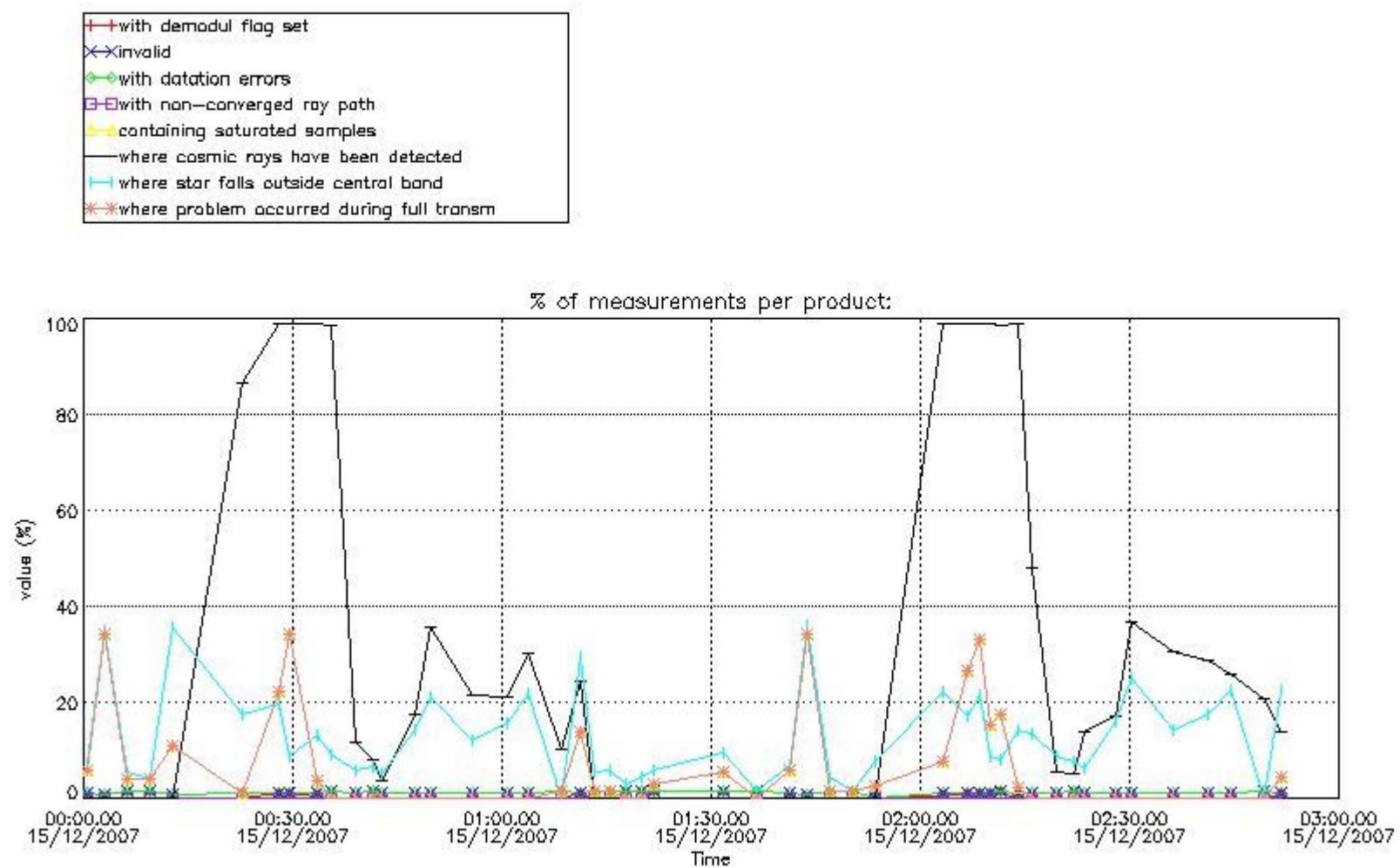
## 5. Demodulation flag and quality information monitoring

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:

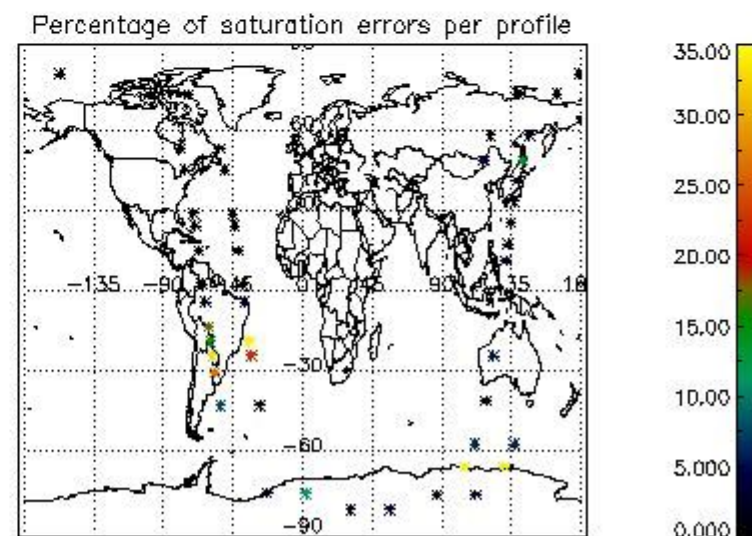
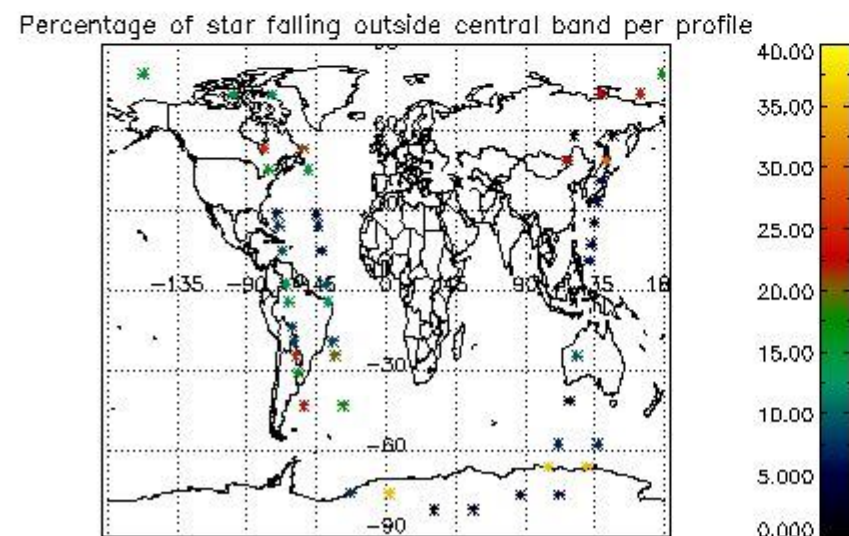
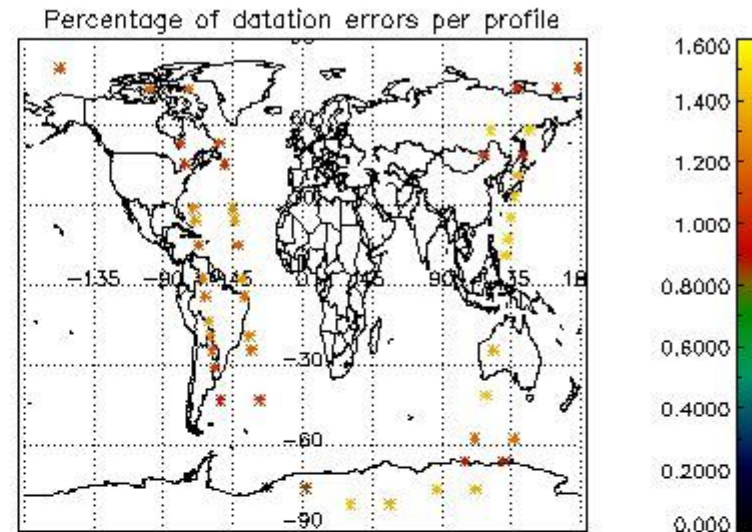
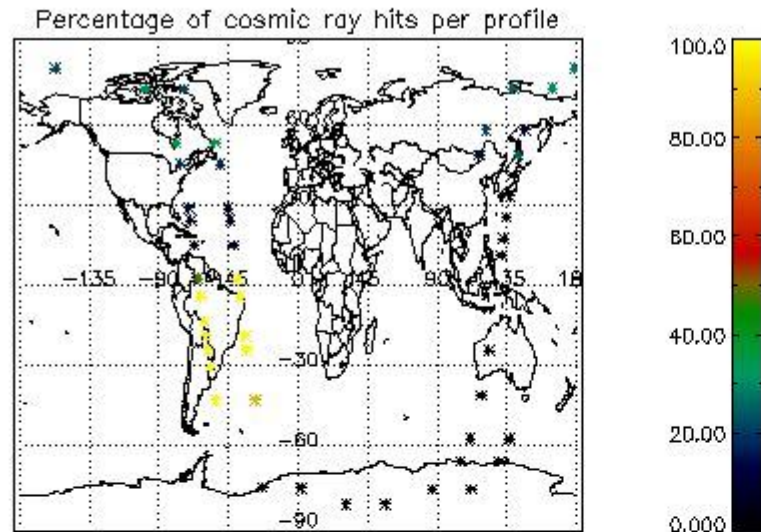
At least one measurement with demodulation flag set:	38.7755 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





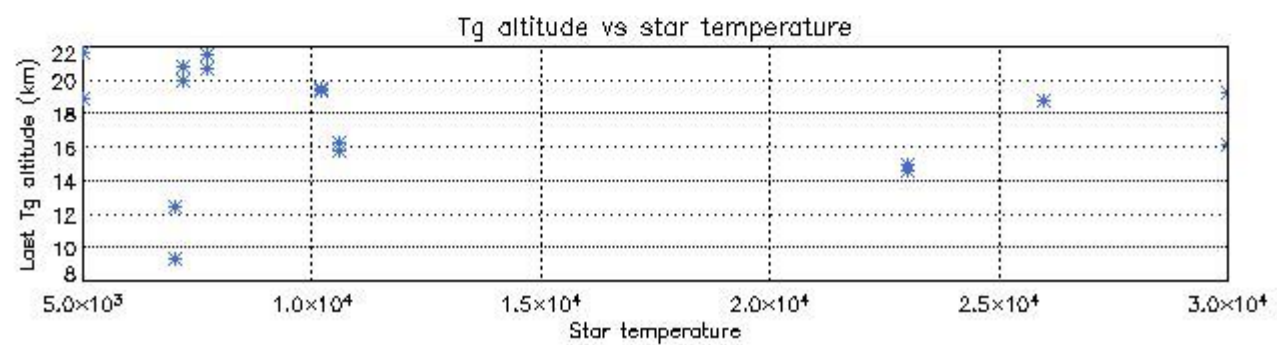
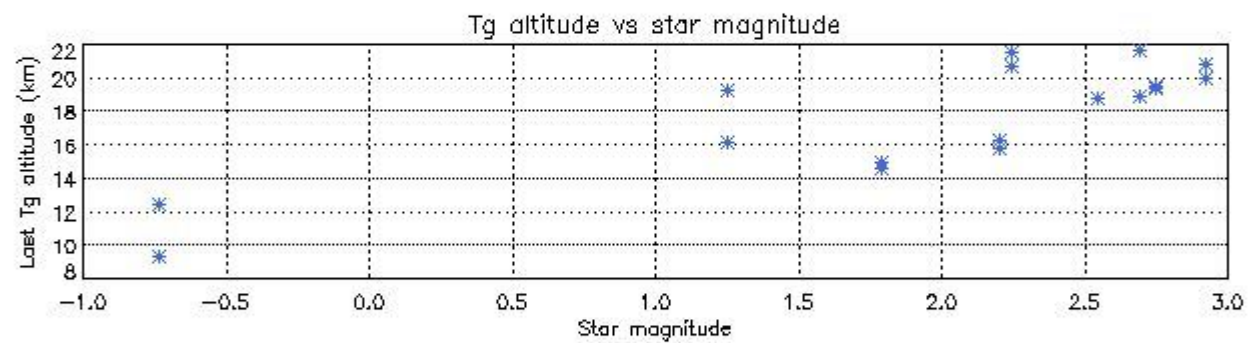
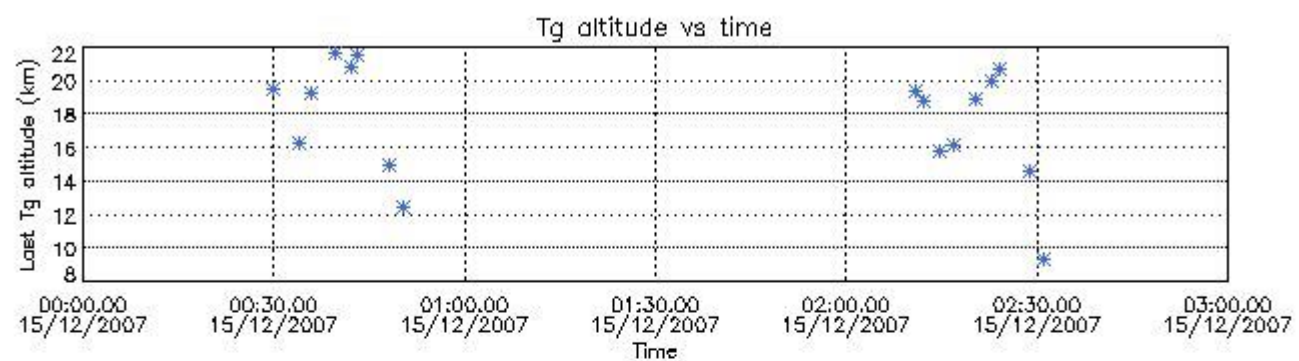
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.635	19.076	12.401
St. deviation:	3.4261	7.2827	0.94696
Maximum:	21.700	24.631	13.431
Minimum:	9.3545	4.0410	11.567
Number of data:	17.000	17.000	3.0000

### 6.2 Plot for DARK limb products

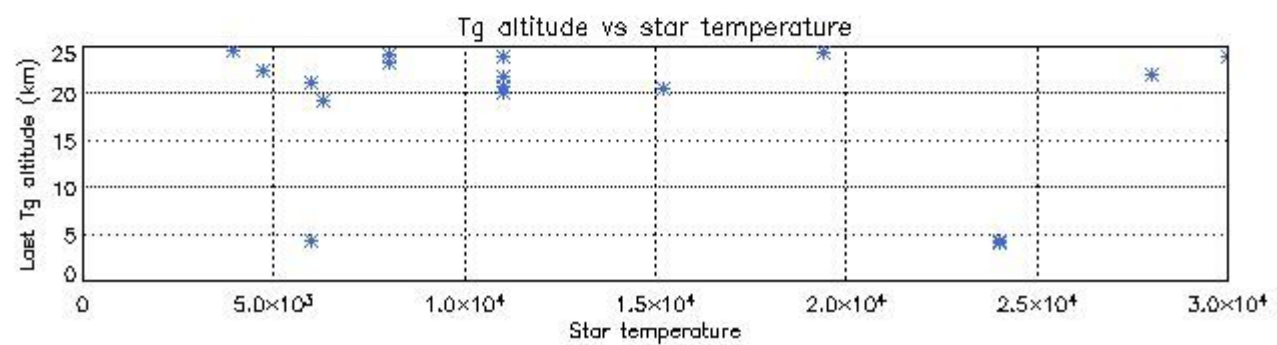
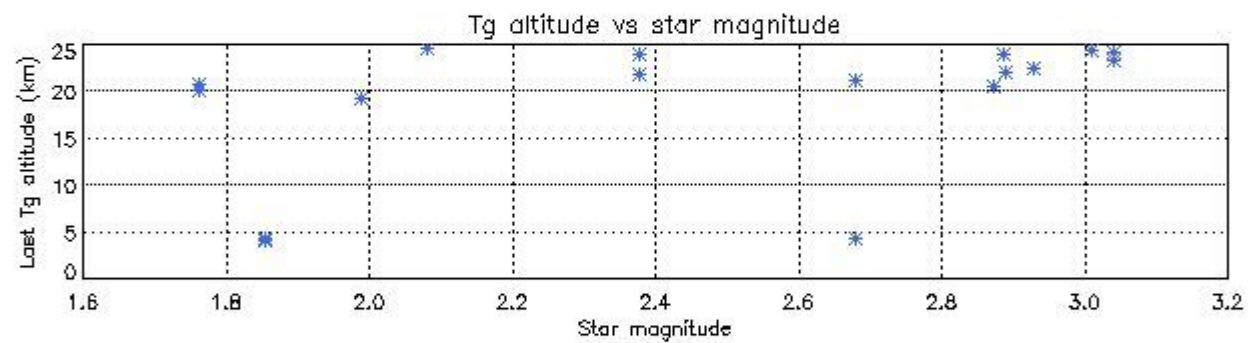
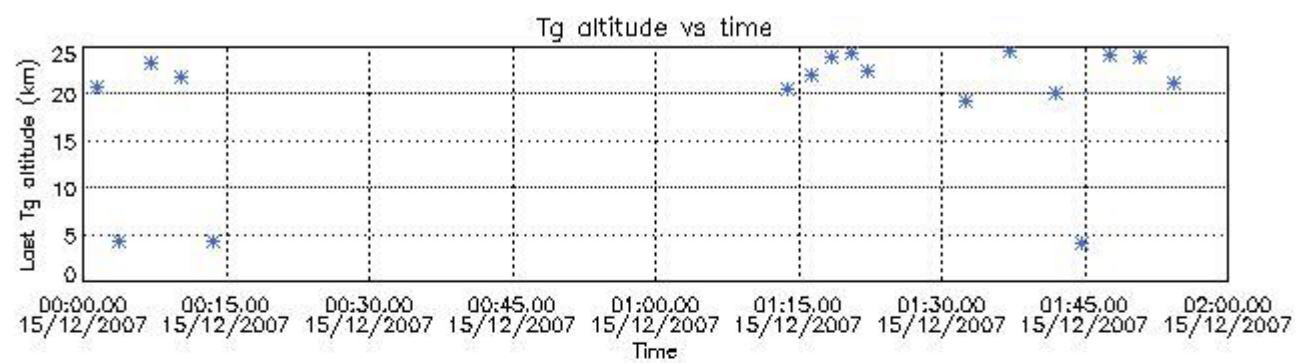
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

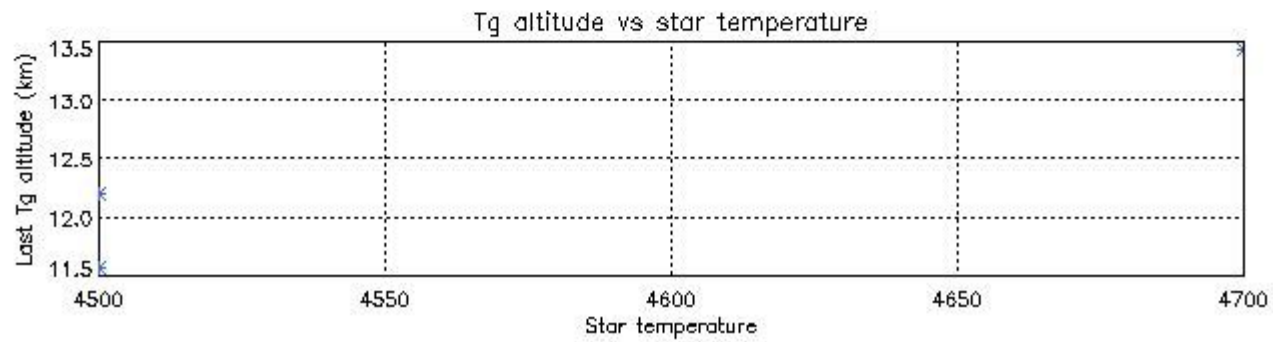
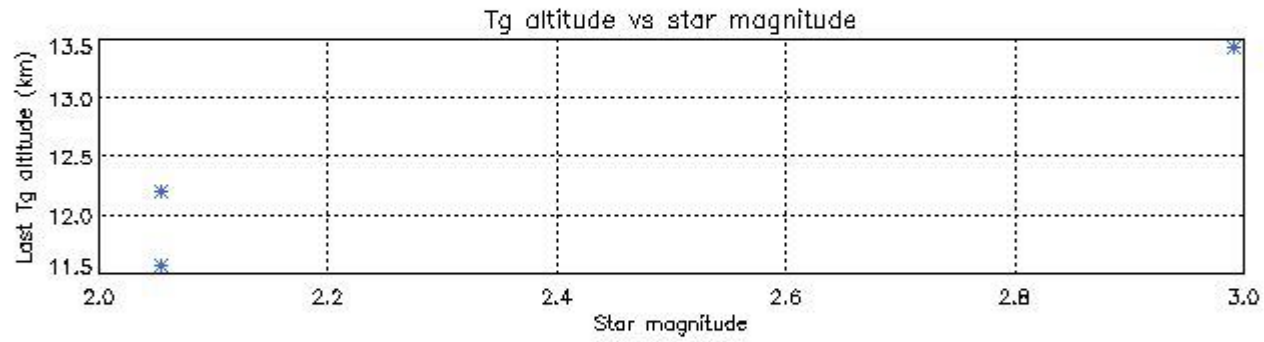
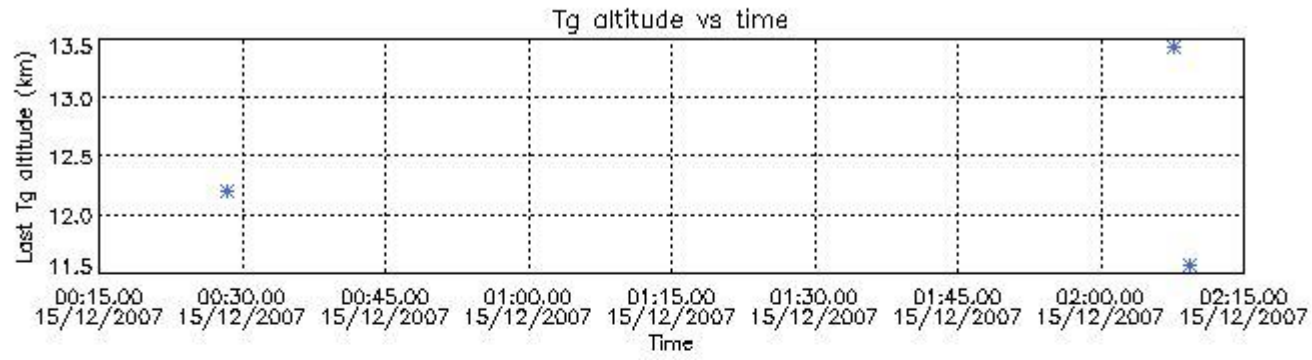


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

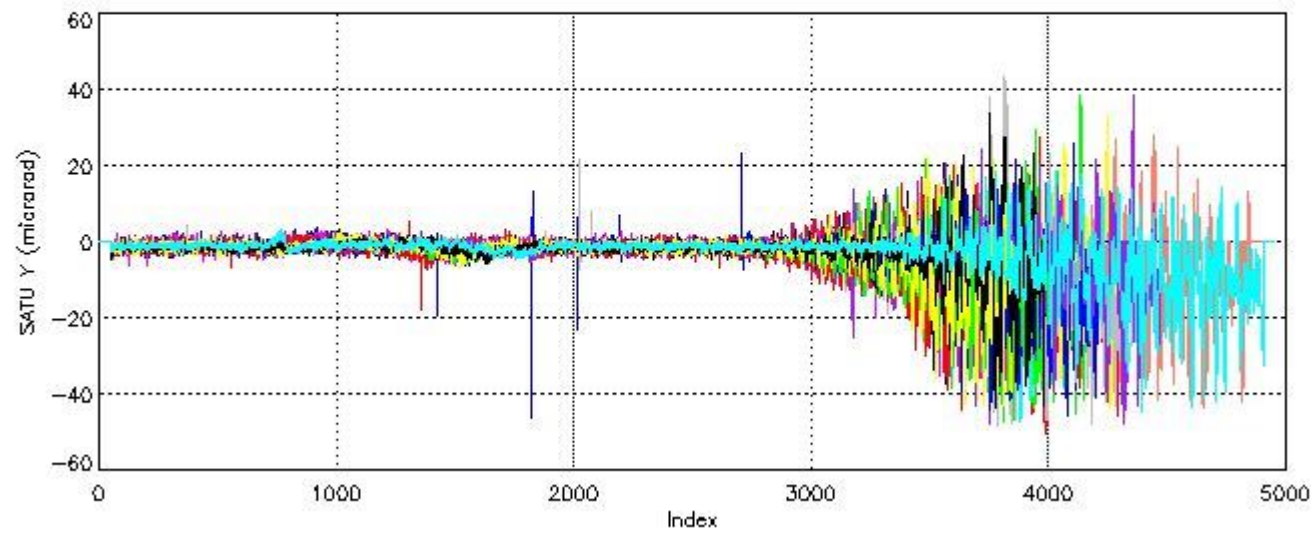
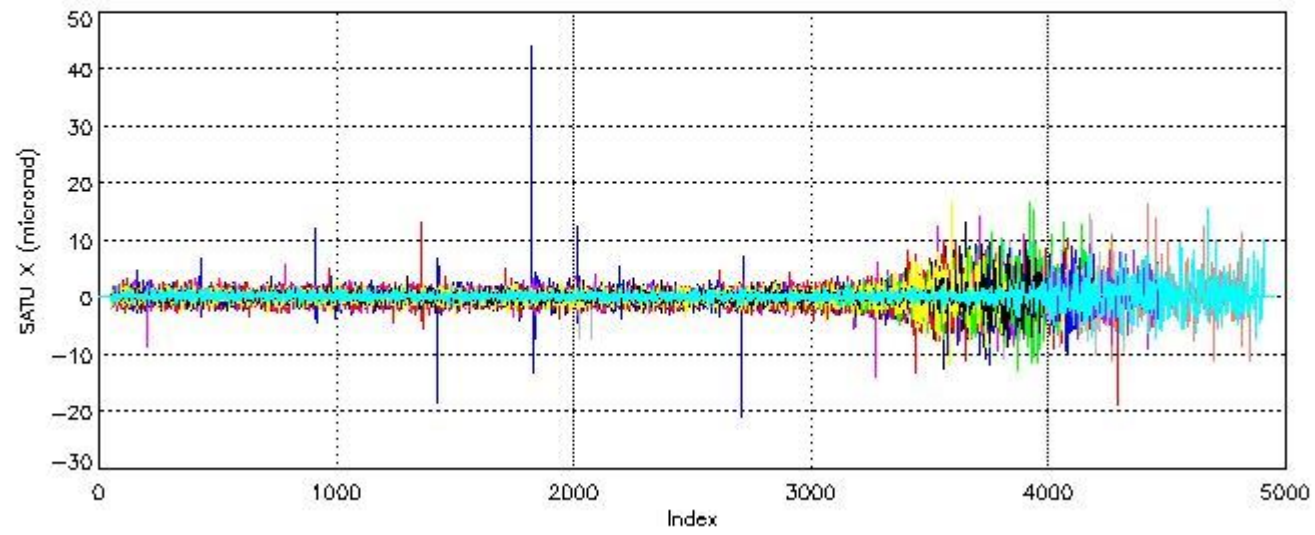


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.15998	-1.2766	0.076650	-1.1209
St. deviation:	0.62040	0.80416	0.94085	1.2943
Maximum:	12.000	3.6000	5.4000	6.1000
Minimum:	-8.7000	-6.7000	-6.2000	-8.2000



Number of data:	16050.	16050.	14650.	14650.
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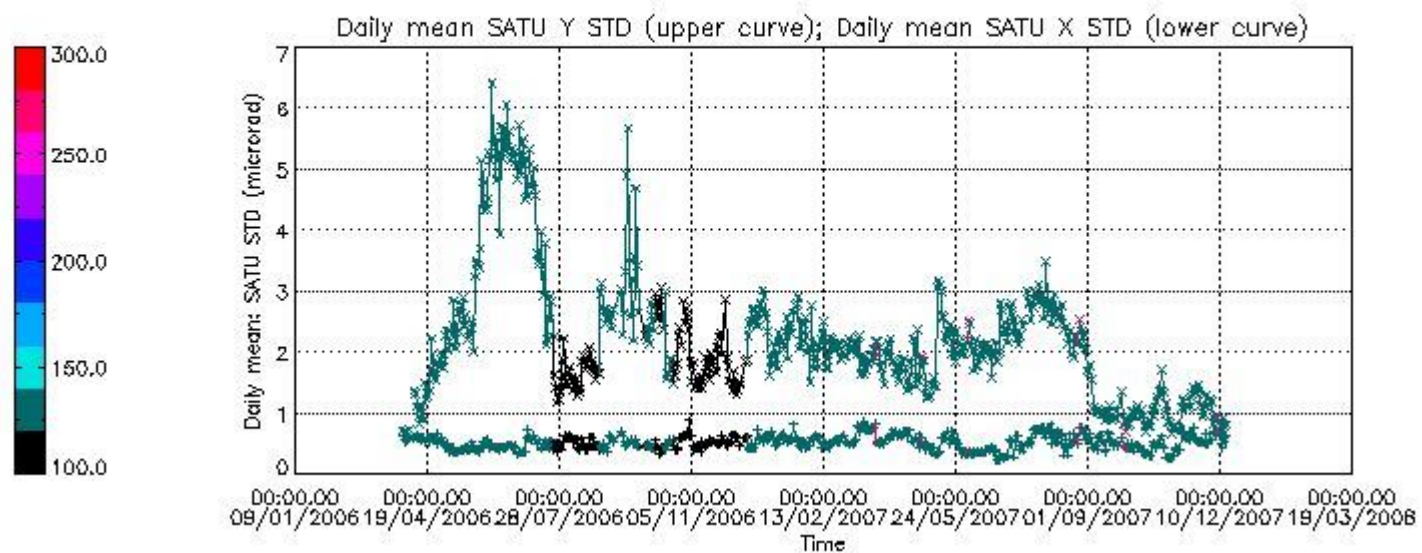
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

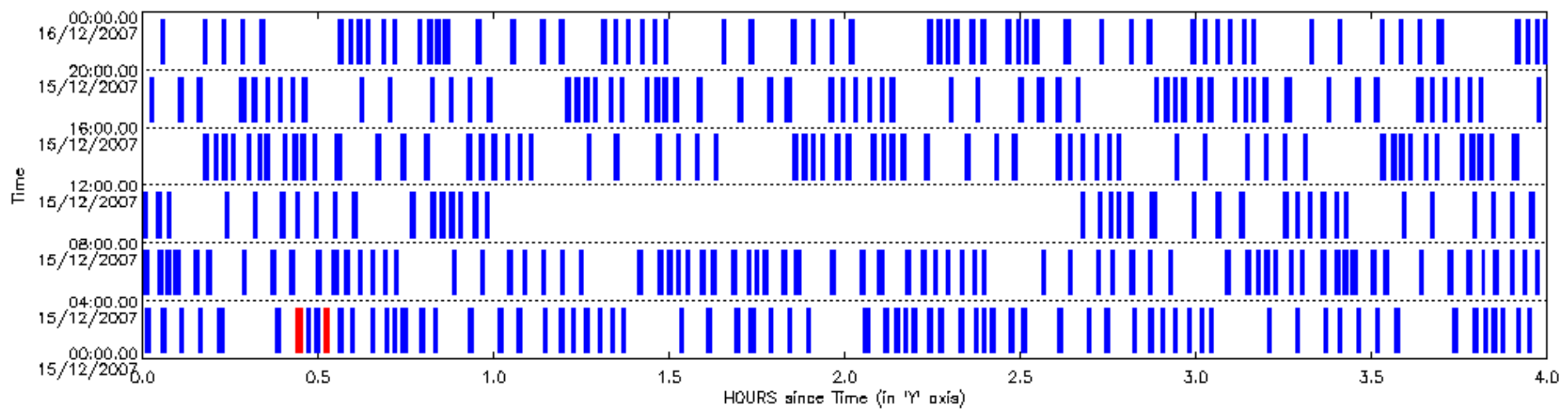
Lower curve: STD of SATU X axis

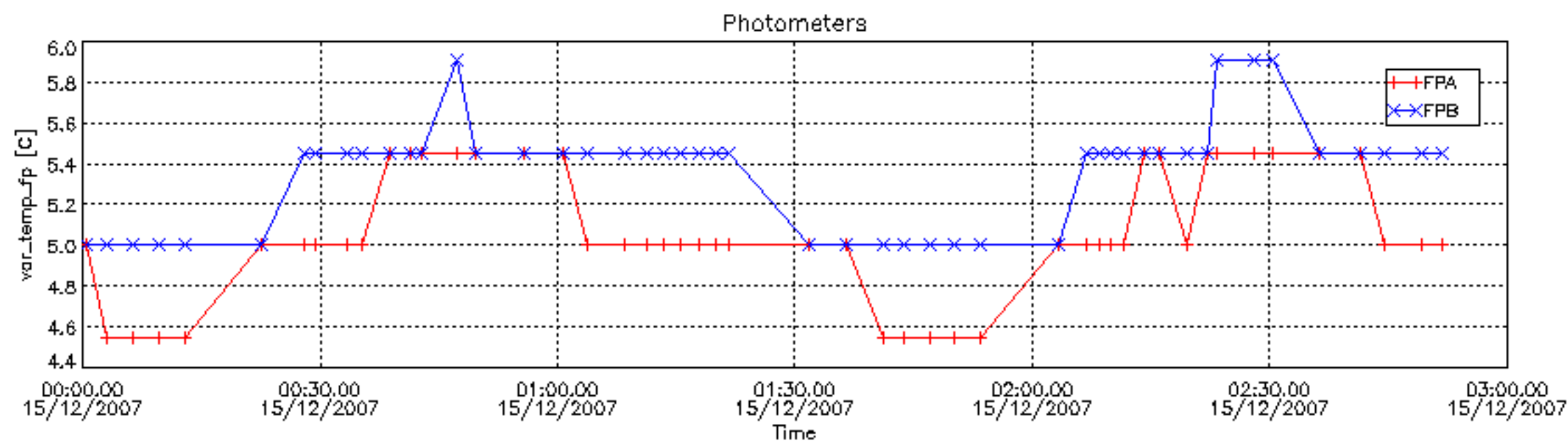
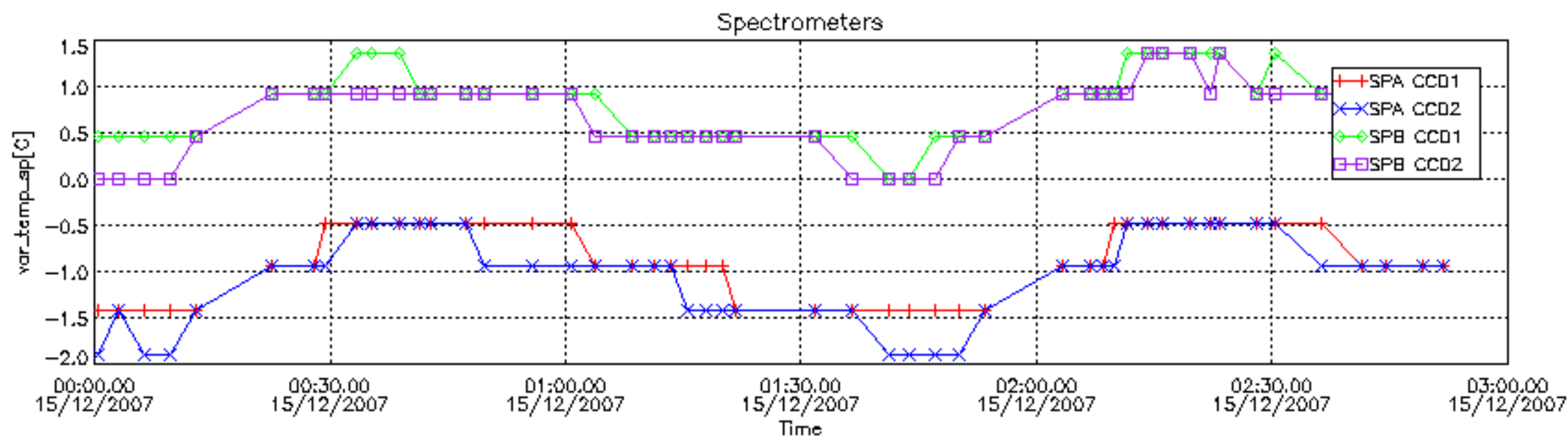


### 8. Auxiliary Data Files used for the production reported in section 2.4

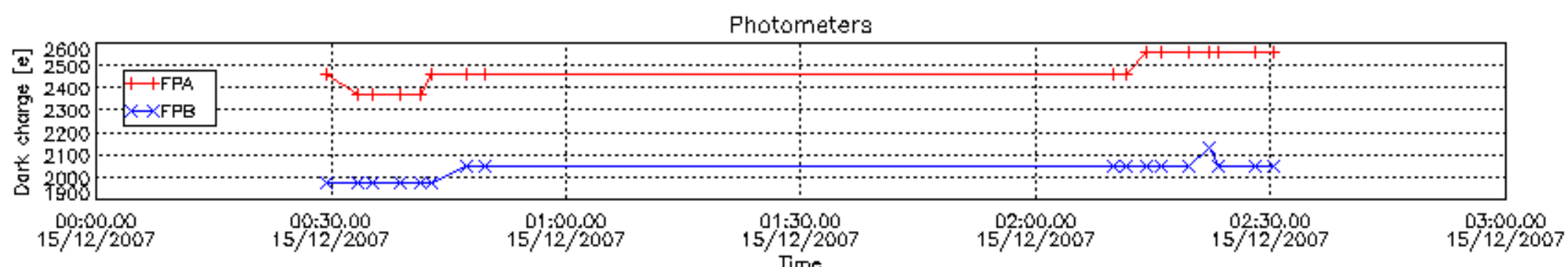
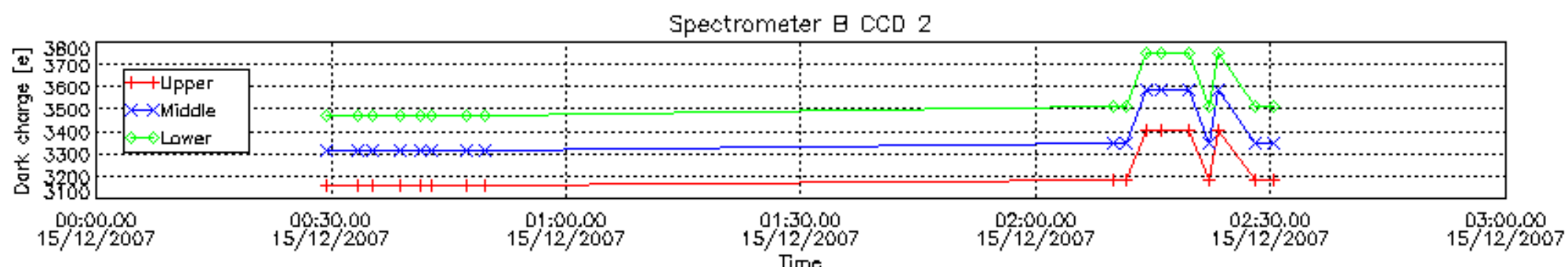
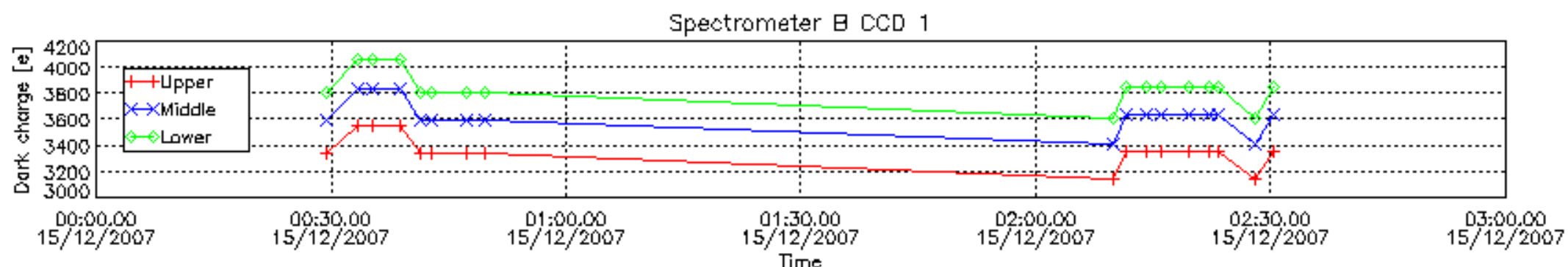
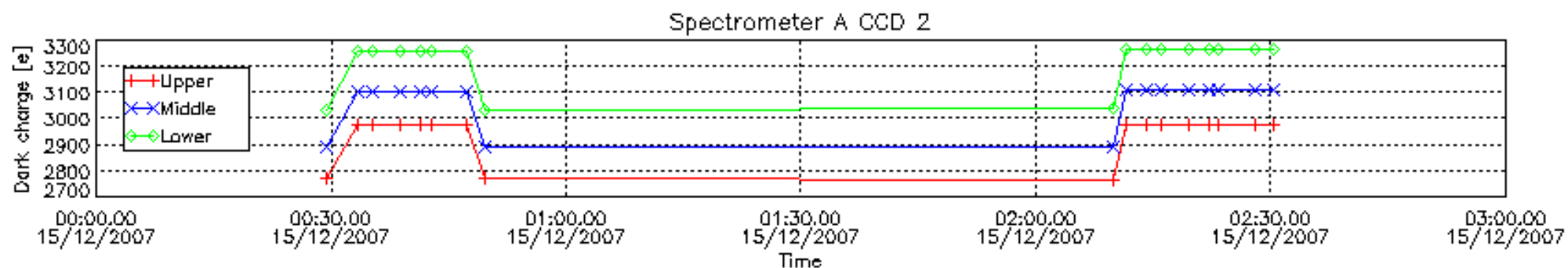
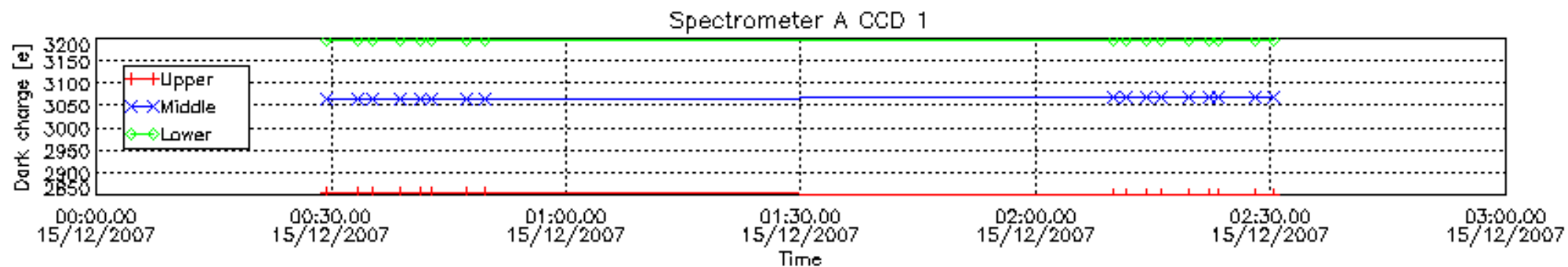
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071214_094104_20071212_000000_20100101_000000	1	15-DEC-2007 00:00:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	15-DEC-2007 00:00:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-DEC-2007 00:00:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	15-DEC-2007 00:00:33
ECMWF_FILE	AUX_ECF_AXNECM20071214_063113_20071214_210000_20071215_090000	1	15-DEC-2007 00:00:33
OPTIONAL_ECMWF_FILE	MISSING	1	15-DEC-2007 00:00:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071214_204952_000063762064_00157_30271_4854.N1	1	15-DEC-2007 00:00:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071214_224126_000054192064_00158_30272_4753.N1	6	15-DEC-2007 00:22:37
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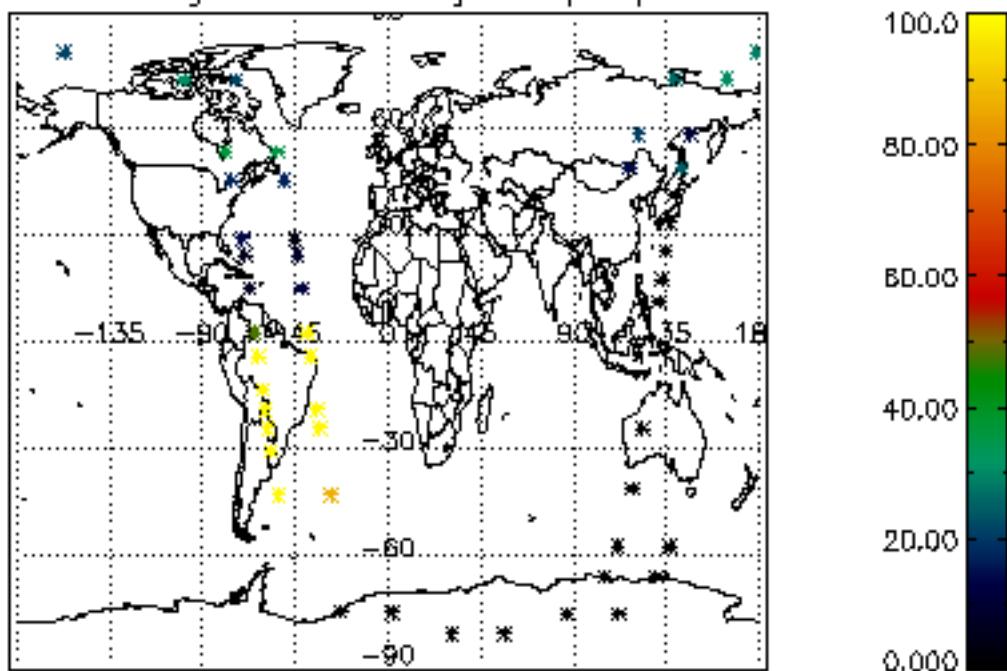




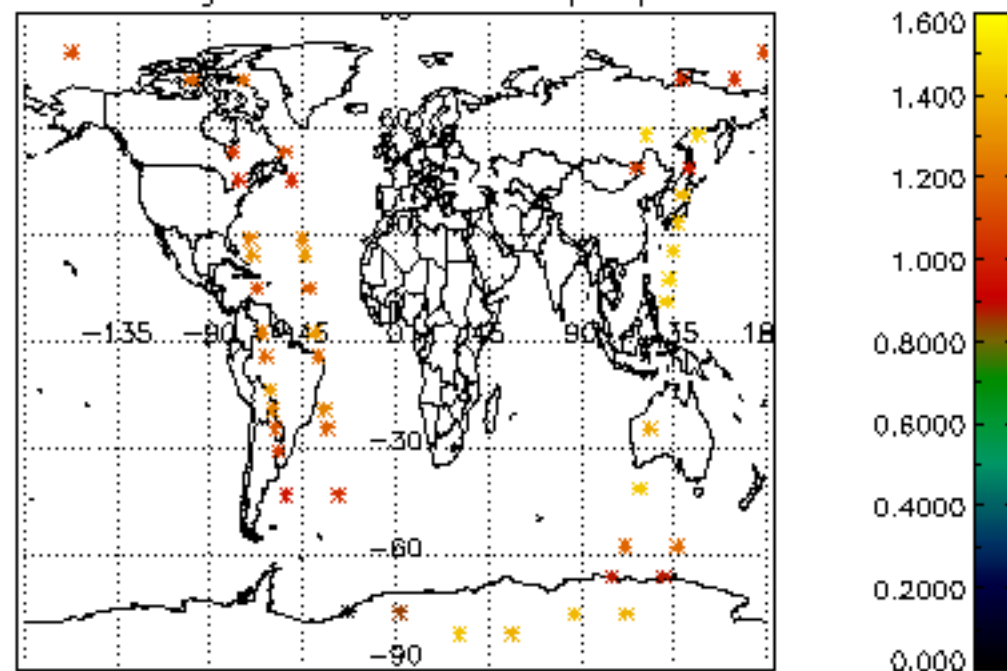




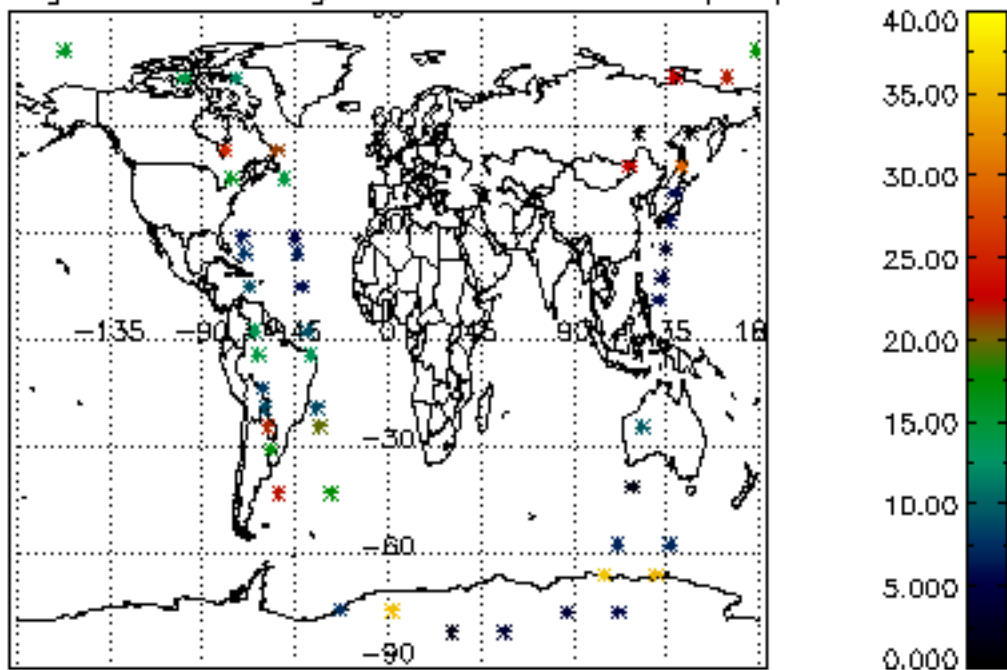
Percentage of cosmic ray hits per profile



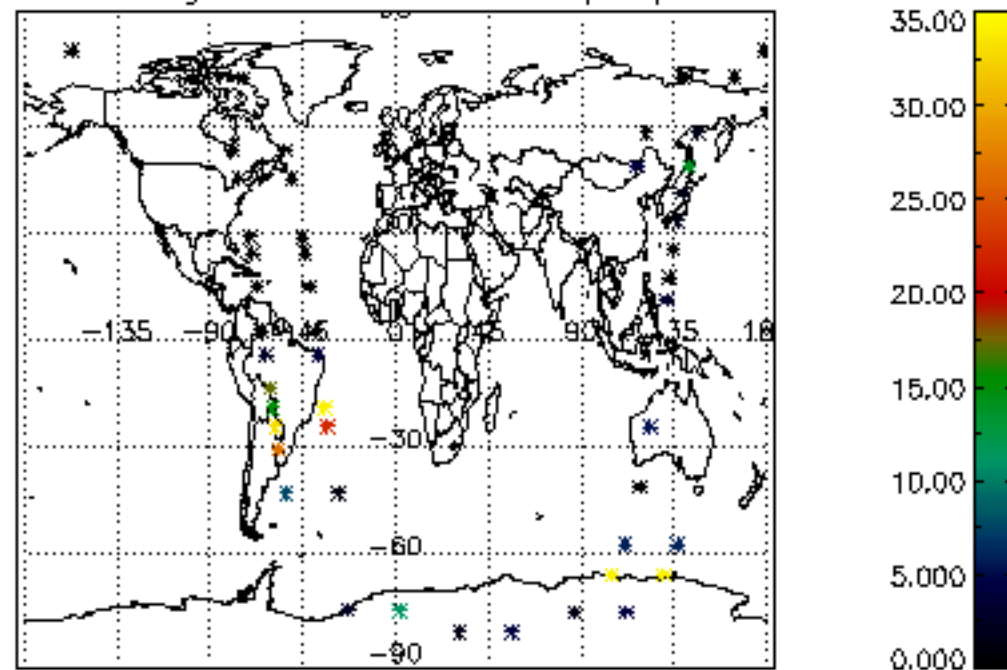
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

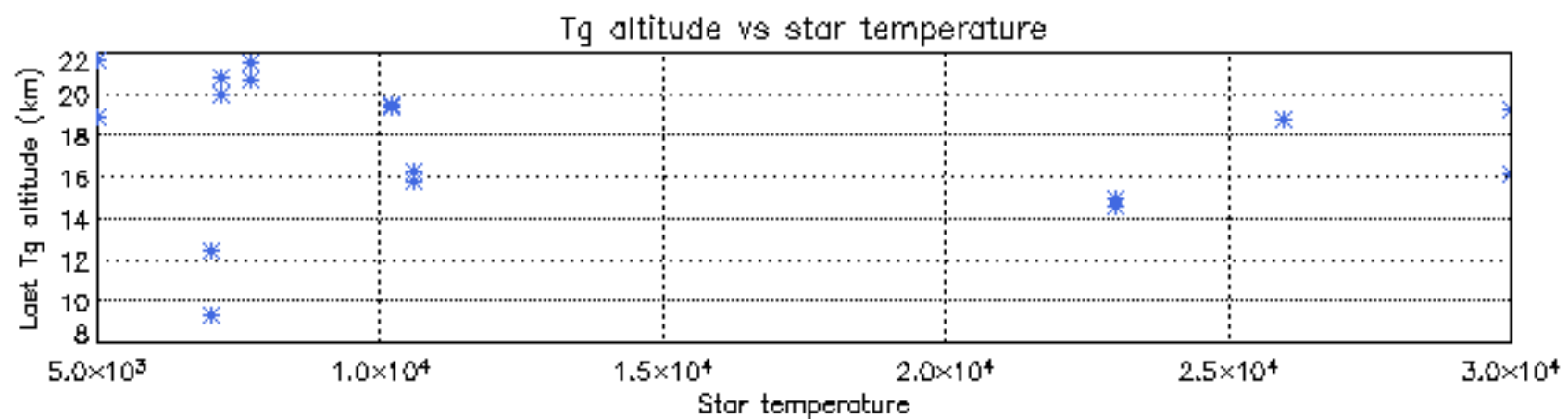
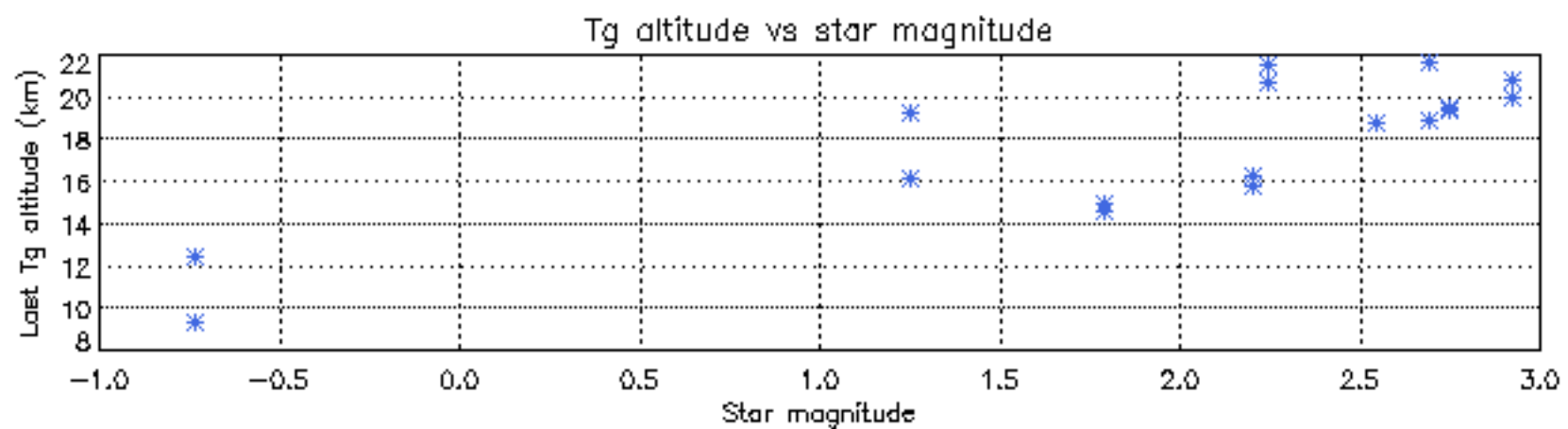
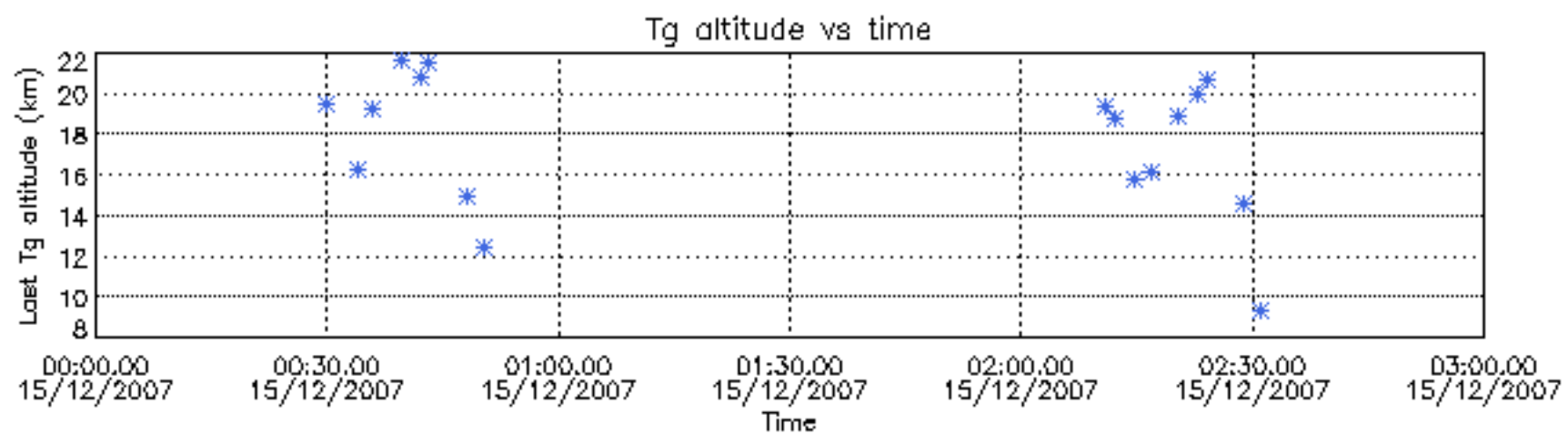


Percentage of saturation errors per profile

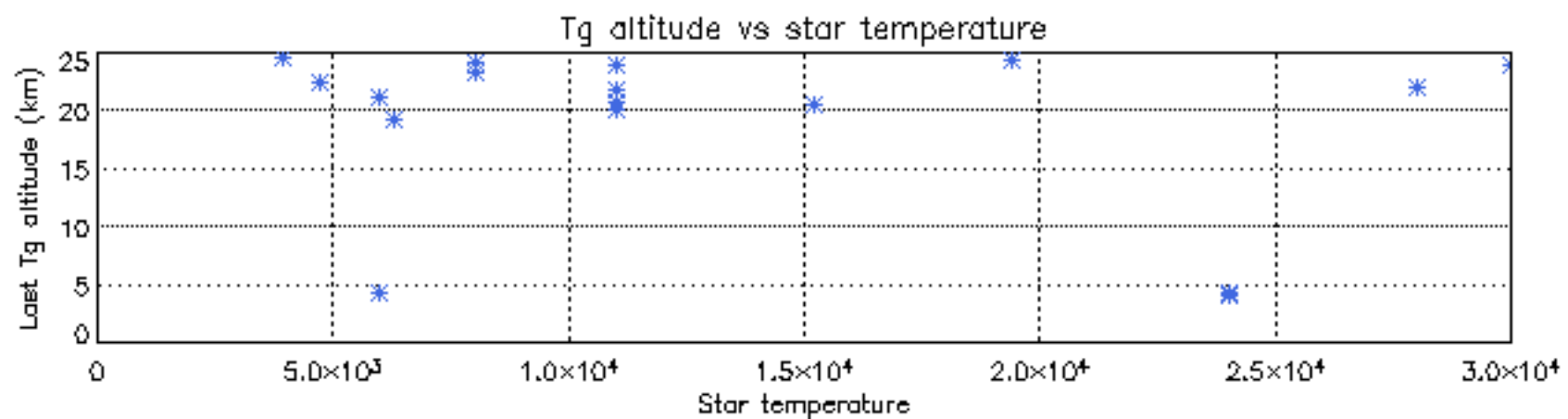
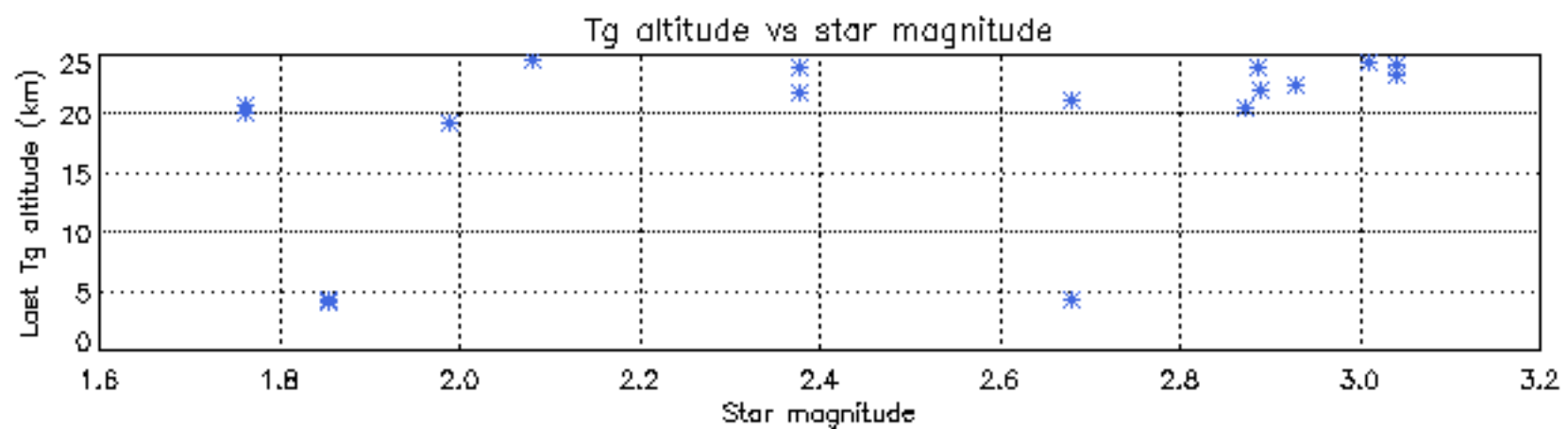
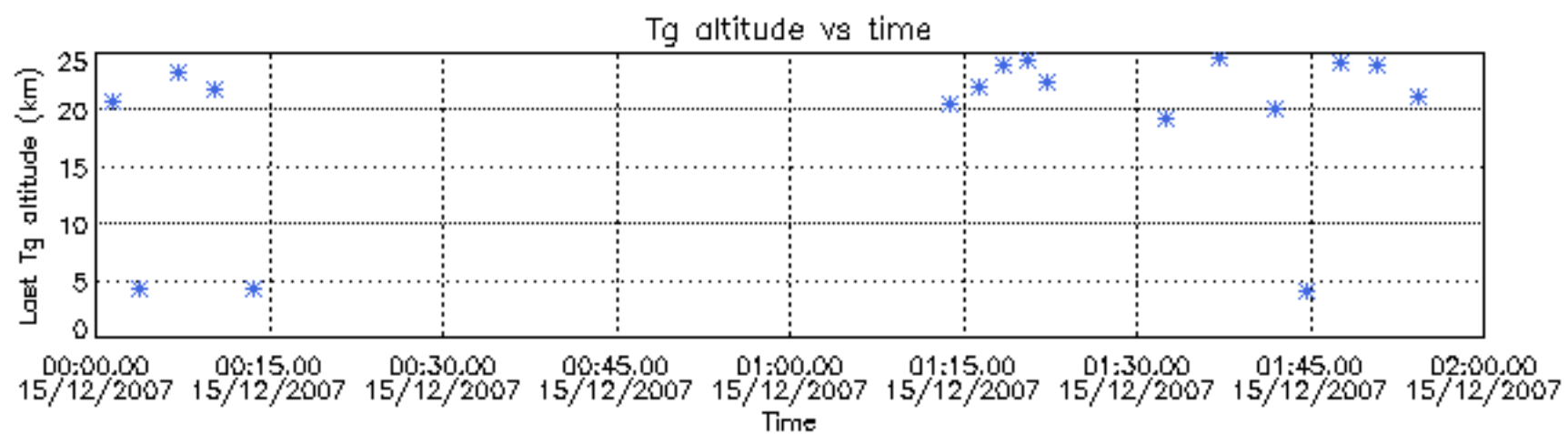




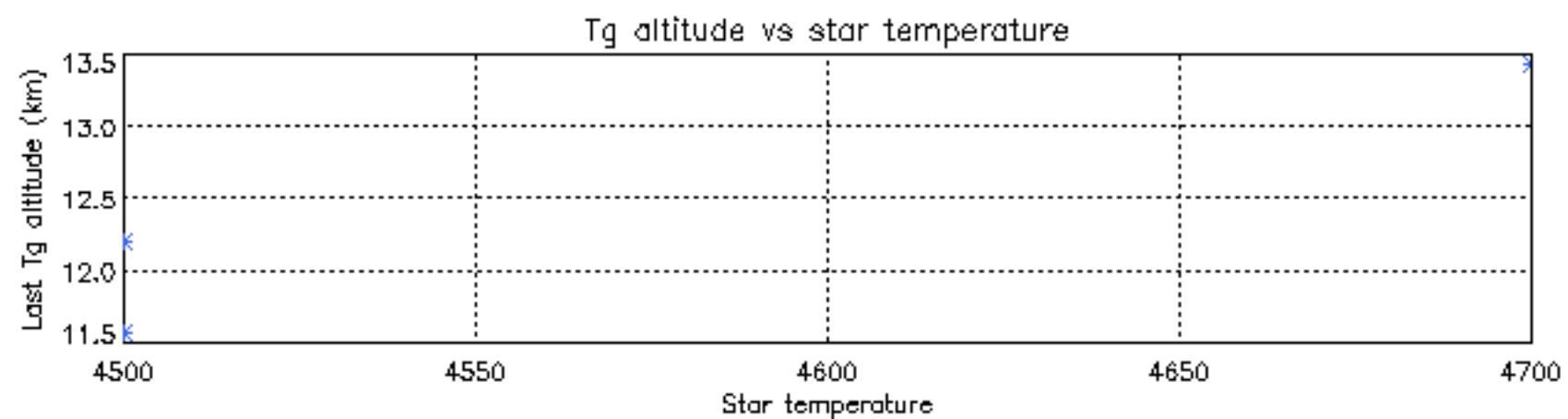
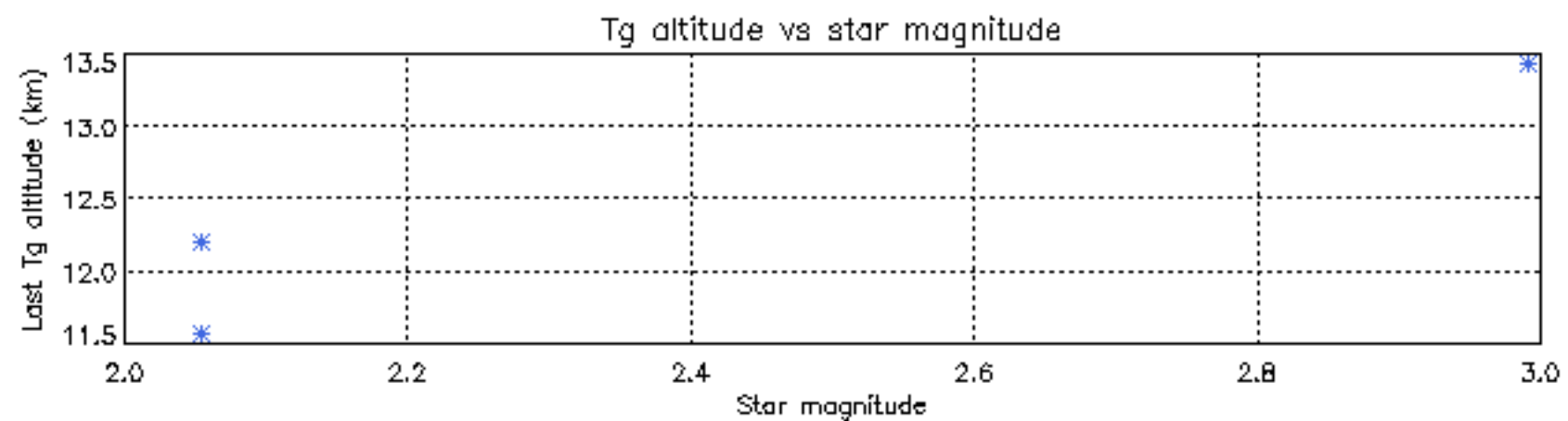
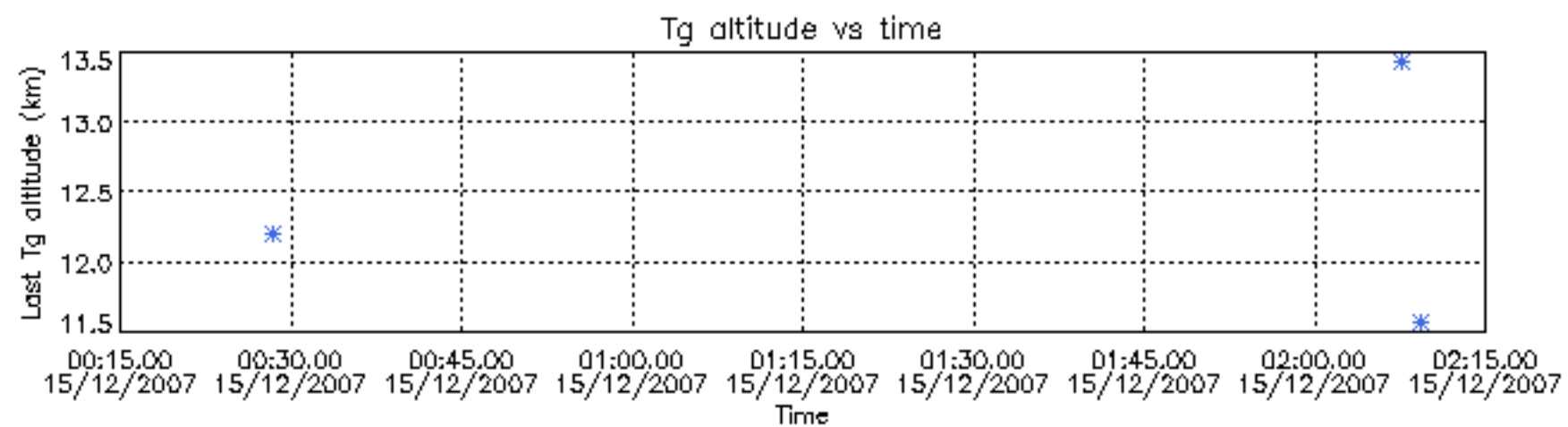
Tangent altitude at which the star is lost



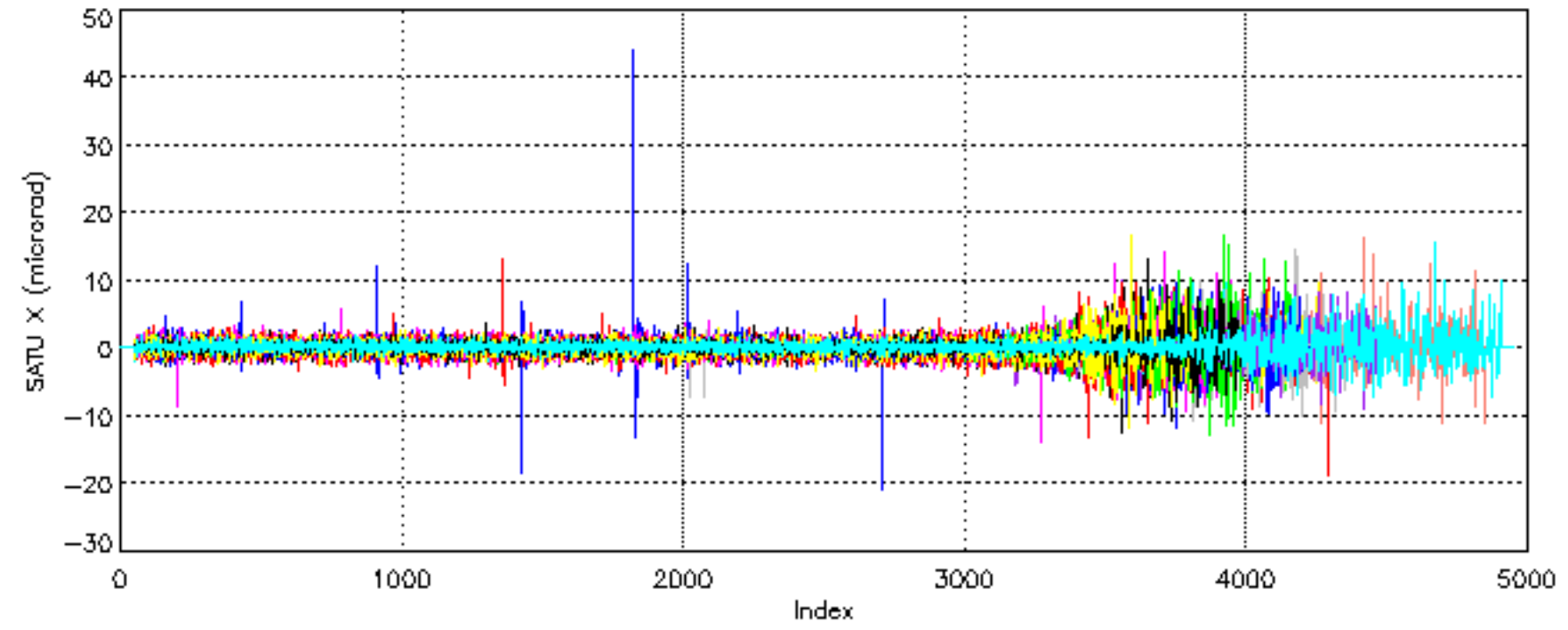
Tangent altitude at which the star is lost

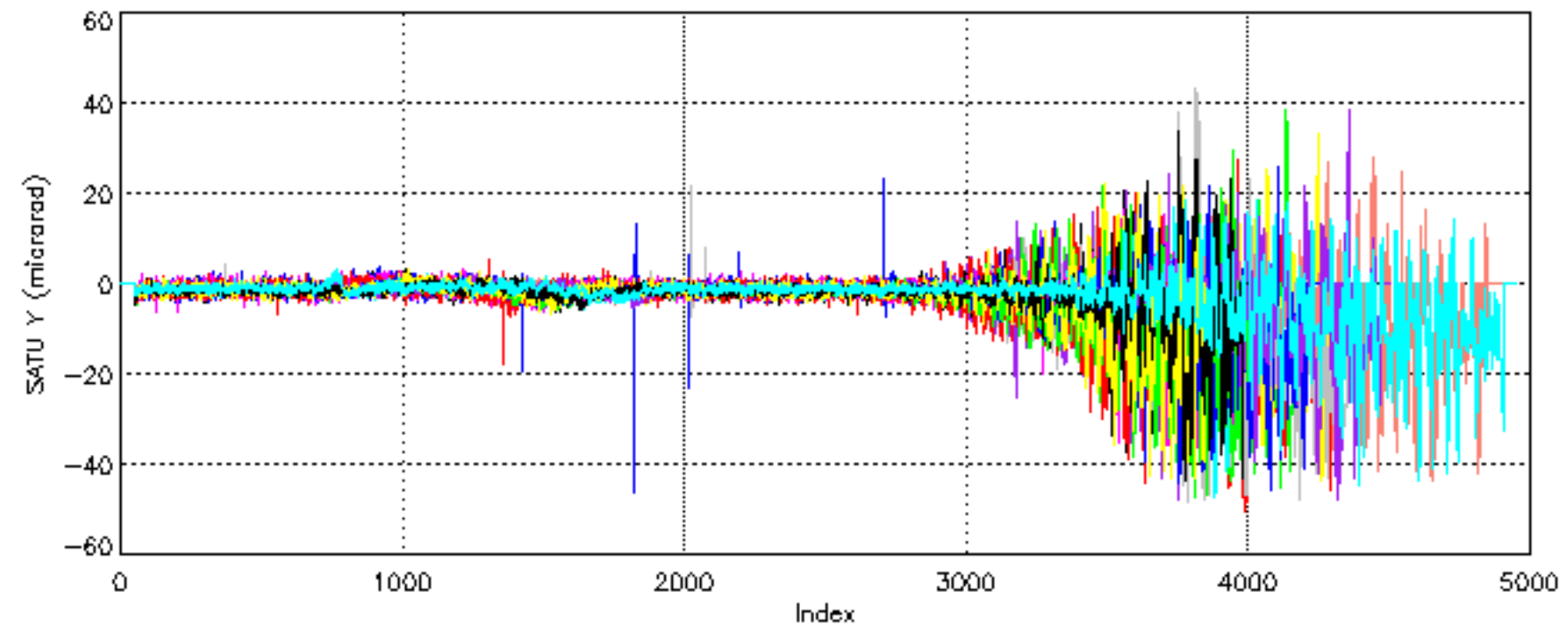


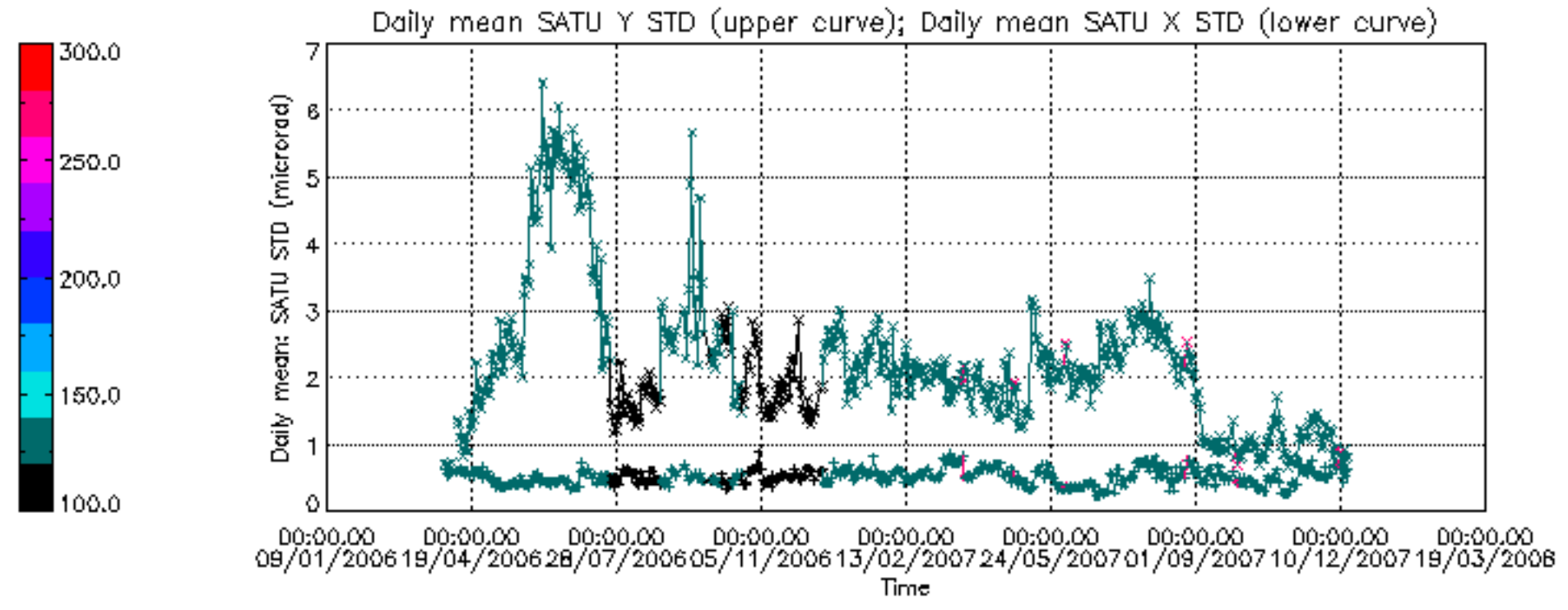
Tangent altitude at which the star is lost











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 4; 1748.4; 11-DEC-2007 18:15:41; Dark ; 55.5; 7; 19Bet Ori ; 0.10; 14000;occ; 111; 0;30227  
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 6; 2591.6; 11-DEC-2007 18:29:44; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;30227  
 7; 2720.6; 11-DEC-2007 18:31:53; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;30227  
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 9; 3705.5; 11-DEC-2007 18:48:18; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30227  
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 11; 4140.2; 11-DEC-2007 18:55:33; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;30227  
 12; 4331.6; 11-DEC-2007 18:58:44; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;30227  
 13; 4519.1; 11-DEC-2007 19:01:52; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;30227  
 14; 4710.5; 11-DEC-2007 19:05:03; Bright; 38.0; 111; 8Eta Boo ; 2.68; 6000;occ; 76; 0;30227  
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 16; 5490.2; 11-DEC-2007 19:18:03; Dark ; 42.5; 169; 46Gam Hya ; 2.99; 4700;occ; 85; 0;30227  
 17; 5618.9; 11-DEC-2007 19:20:12; Dark ; 52.5; 106; 9Bet Crv ; 2.65; 5600;occ; 105; 0;30227  
 18; 5936.8; 11-DEC-2007 19:25:30; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;30227  
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 22; 6563.5; 11-DEC-2007 19:35:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30227  
 23; 6763.4; 11-DEC-2007 19:39:16; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0;30227  
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 13; 1678.5; 12-DEC-2007 00:56:55; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82; 0;30231  
 14; 1807.8; 12-DEC-2007 00:59:04; Dark ; 44.0; 128; 67Bet Eri ; 2.78; 9700;occ; 88; 0;30231  
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 18; 2819.2; 12-DEC-2007 01:15:56; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;30231  
 19; 3421.9; 12-DEC-2007 01:25:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30231  
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 22; 4140.0; 12-DEC-2007 01:37:57; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;30231  
 23; 4331.7; 12-DEC-2007 01:41:08; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;30231  
 24; 4519.8; 12-DEC-2007 01:44:16; Bright; 34.5; 83; ; 2.38; 11000;occ; 69; 0;30231  
 25; 4711.5; 12-DEC-2007 01:47:28; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;30231

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6; 213.8; 12-DEC-2007 02:13:06; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;30232  
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8; 530.7; 12-DEC-2007 02:18:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30232  
9; 730.4; 12-DEC-2007 02:21:43; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;30232  
10; 879.0; 12-DEC-2007 02:24:11; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;30232  
11; 1247.4; 12-DEC-2007 02:30:20; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;30232  
12; 1556.9; 12-DEC-2007 02:35:29; Dark ; 44.5; 101; 11Alp Lep ; 2.58; 7000;occ; 89; 0;30232  
13; 1748.3; 12-DEC-2007 02:38:41; Dark ; 48.0; 7; 19Bet Ori ; 0.10; 14000;occ; 96; 0;30232  
14; 2196.8; 12-DEC-2007 02:46:09; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;30232  
15; 2318.5; 12-DEC-2007 02:48:11; Bright; 36.5; 146; 25Eta Tau ; 2.87; 15200;occ; 73; 0;30232  
16; 2451.2; 12-DEC-2007 02:50:24; Bright; 35.0; 150; 44Zet Per ; 2.89; 28000;occ; 70; 0;30232  
17; 2591.2; 12-DEC-2007 02:52:44; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;30232  
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11; -96.3; 12-DEC-2007 03:48:32; Dark ; 38.5; 64; Gam Cen ; 2.20; 10600;occ; 77; 0;30232  
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13; 214.8; 12-DEC-2007 03:53:43; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30233  
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 23; 6446.3; 15-DEC-2007 17:27:31; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30283  
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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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9; 595.7; 28-DEC-2007 02:16:37; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30461  
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13; 1588.8; 28-DEC-2007 02:33:10; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;30461  
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6; -867.2; 28-DEC-2007 05:13:26; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;30462  
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13; 381.7; 28-DEC-2007 05:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30463  
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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  
23; 2193.6; 28-DEC-2007 06:04:27; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30463  
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5; 1879.4; 28-DEC-2007 21:04:36; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30472  
6; 2012.8; 28-DEC-2007 21:06:49; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30472  
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