

# GOMOS Daily Report 06-JAN-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	11JAN2007 12:43:32
Data source version	GOMOS/5.00
Start time of products	06-01-2007 (06JAN2007 00:00:00)
Stop time of products	07-01-2007 (07JAN2007 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)

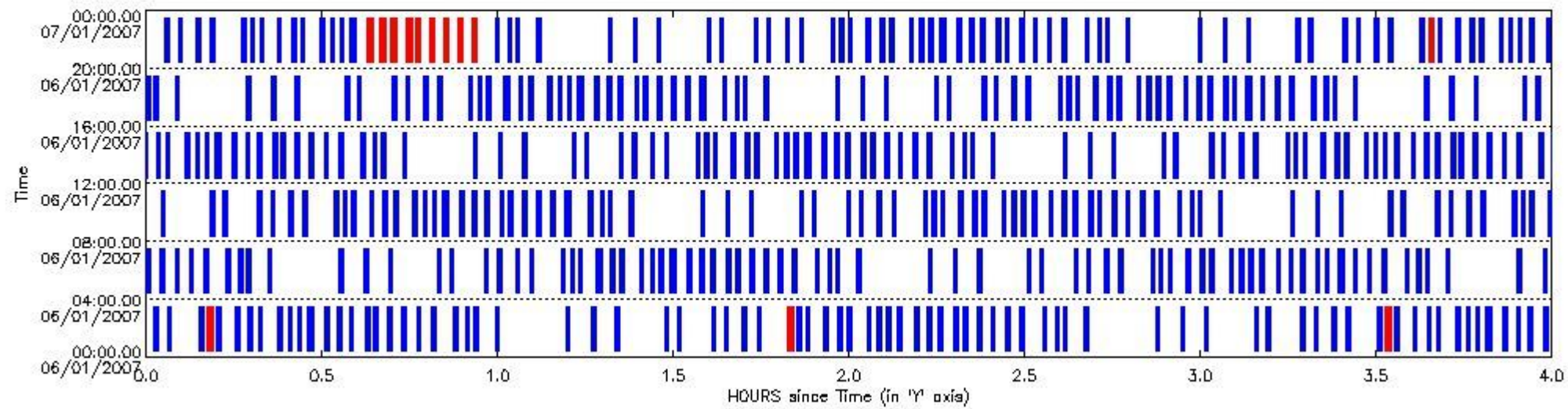
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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).



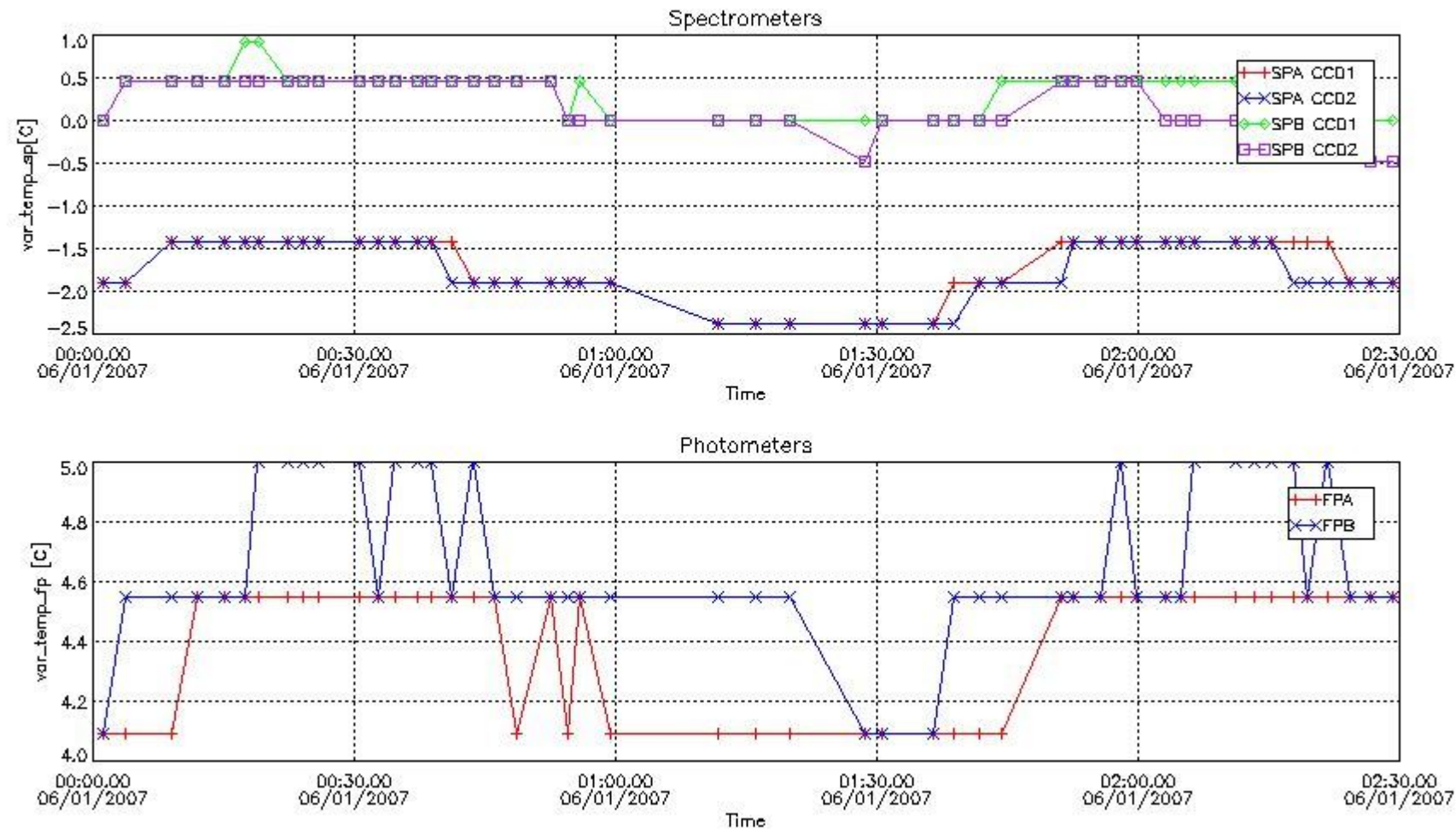
### 2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
06-JAN-2007 00:10:26	BetLup	109	25363
06-JAN-2007 01:49:34	GamLup	131	25364
06-JAN-2007 03:31:38	BetLup	109	25365
06-JAN-2007 20:37:41	Gam2Vel	34	25376
06-JAN-2007 20:39:52	ZetPup	70	25376
06-JAN-2007 20:41:46	PiPup	117	25376
06-JAN-2007 20:44:27	21EpsCMa	23	25376
06-JAN-2007 20:45:56	24Omi2CMa	179	25376
06-JAN-2007 20:48:17	9AlpCMa	1	25376
06-JAN-2007 20:50:45	53KapOri	56	25376
06-JAN-2007 20:53:13	46EpsOri	30	25376
06-JAN-2007 20:55:37	58AlpOri	14	25376
06-JAN-2007 23:38:56	BetLup	109	25377

### 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_1PNPDE20070106_000112_000000432054_00259_25363_4620.N1	06-JAN-2007 00:01:12	Bright	43.000	104	27Bet Lib	2.6140	13100.	86	25363	No
2	GOM_TRA_1PNPDE20070106_000339_000000392054_00259_25363_4742.N1	06-JAN-2007 00:03:39	Bright	39.000	80	7Del Sco	2.3160	30000.	78	25363	No
3	GOM_TRA_1PNPDE20070106_000904_000000372054_00259_25363_4743.N1	06-JAN-2007 00:09:04	Dark	37.000	131	Gam Lup	2.8000	26000.	74	25363	No
4	GOM_TRA_1PNPDE20070106_001201_000000392054_00259_25363_4744.N1	06-JAN-2007 00:12:01	Dark	39.000	78	Alp Lup	2.3040	28000.	78	25363	No
5	GOM_TRA_1PNPDE20070106_001503_000000532054_00260_25364_4745.N1	06-JAN-2007 00:15:03	Dark	52.500	4	Alp1Cen	-0.010000	5800.0	105	25364	No
6	GOM_TRA_1PNPDE20070106_001724_000000442054_00260_25364_4746.N1	06-JAN-2007 00:17:24	Dark	43.500	64	Gam Cen	2.2000	10600.	87	25364	No
7	GOM_TRA_1PNPDE20070106_001905_000000402054_00260_25364_4747.N1	06-JAN-2007 00:19:05	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	25364	No
8	GOM_TRA_1PNPDE20070106_002226_000000392054_00260_25364_4748.N1	06-JAN-2007 00:22:26	Dark	38.500	124	The Car	2.7640	30000.	77	25364	No
9	GOM_TRA_1PNPDE20070106_002412_000000382054_00260_25364_4749.N1	06-JAN-2007 00:24:12	Dark	38.000	29	Bet Car	1.6720	10200.	76	25364	No
10	GOM_TRA_1PNPDE20070106_002547_000000412054_00260_25364_4750.N1	06-JAN-2007 00:25:47	Dark	40.500	71	lot Car	2.2460	7700.0	81	25364	No
11	GOM_TRA_1PNPDE20070106_003030_000000442054_00260_25364_4751.N1	06-JAN-2007 00:30:30	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	25364	No
12	GOM_TRA_1PNPDE20070106_003241_000000472054_00260_25364_4752.N1	06-JAN-2007 00:32:41	Dark	46.500	70	Zet Pup	2.2460	39000.	93	25364	No
13	GOM_TRA_1PNPDE20070106_003437_000000462054_00260_25364_4753.N1	06-JAN-2007 00:34:37	Dark	46.000	117	Pi Pup	2.7060	3800.0	92	25364	No
14	GOM_TRA_1PNPDE20070106_003719_000000472054_00260_25364_4754.N1	06-JAN-2007 00:37:19	Straylight	46.500	23	21Eps CMa	1.5020	26000.	93	25364	No
15	GOM_TRA_1PNPDE20070106_003849_000000432054_00260_25364_4755.N1	06-JAN-2007 00:38:49	Straylight	42.500	179	24Omi2CMa	3.0320	24000.	85	25364	No
16	GOM_TRA_1PNPDE20070106_004110_000000492054_00260_25364_4756.N1	06-JAN-2007 00:41:10	Straylight	48.500	1	9Alp CMa	-1.4400	11000.	97	25364	No
17	GOM_TRA_1PNPDE20070106_004339_000000412054_00260_25364_4757.N1	06-JAN-2007 00:43:39	Straylight	41.000	56	53Kap Ori	2.0650	30000.	82	25364	No
18	GOM_TRA_1PNPDE20070106_004607_000000432054_00260_25364_4758.N1	06-JAN-2007 00:46:07	Straylight	43.000	30	46Eps Ori	1.6940	30000.	86	25364	No
19	GOM_TRA_1PNPDE20070106_004831_000000532054_00260_25364_4759.N1	06-JAN-2007 00:48:31	Tw_i_and_stray	52.500	14	58Alp Ori	0.87000	3000.0	105	25364	No
20	GOM_TRA_1PNPDE20070106_005228_000000382054_00260_25364_4760.N1	06-JAN-2007 00:52:28	Bright	38.000	176	23Zet Tau	3.0200	22000.	76	25364	No
21	GOM_TRA_1PNPDE20070106_005435_000000362054_00260_25364_4761.N1	06-JAN-2007 00:54:35	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	25364	No
22	GOM_TRA_1PNPDE20070106_005557_000000382054_00260_25364_4762.N1	06-JAN-2007 00:55:57	Bright	37.500	114	3lot Aur	2.6930	4600.0	75	25364	No
23	GOM_TRA_1PNPDE20070106_005930_000000392054_00260_25364_4763.N1	06-JAN-2007 00:59:30	Bright	39.000	6	13Alp Aur	0.080000	3400.0	78	25364	No
24	GOM_TRA_1PNPDE20070106_011144_000000342054_00260_25364_4764.N1	06-JAN-2007 01:11:44	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	25364	No
25	GOM_TRA_1PNPDE20070106_011604_000000382054_00260_25364_4765.N1	06-JAN-2007 01:16:04	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	25364	No
26	GOM_TRA_1PNPDE20070106_012005_000000372054_00260_25364_4766.N1	06-JAN-2007 01:20:05	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	25364	No
27	GOM_TRA_1PNPDE20070106_012833_000000342054_00260_25364_4767.N1	06-JAN-2007 01:28:33	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	25364	No
28	GOM_TRA_1PNPDE20070106_013039_000000392054_00260_25364_4768.N1	06-JAN-2007 01:30:39	Bright	38.500	67	5Alp CrB	2.2210	11000.	77	25364	No
29	GOM_TRA_1PNPDE20070106_013633_000000382054_00260_25364_4769.N1	06-JAN-2007 01:36:33	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	25364	No
30	GOM_TRA_1PNPDE20070106_013848_000000342054_00260_25364_4770.N1	06-JAN-2007 01:38:48	Bright	34.000	120	1Del Oph	2.7340	3200.0	68	25364	No
31	GOM_TRA_1PNPDE20070106_014149_000000422054_00260_25364_4878.N1	06-JAN-2007 01:41:49	Bright	42.000	104	27Bet Lib	2.6140	13100.	84	25364	No
32	GOM_TRA_1PNPDE20070106_014415_000000402054_00260_25364_4879.N1	06-JAN-2007 01:44:15	Bright	39.500	80	7Del Sco	2.3160	30000.	79	25364	No
33	GOM_TRA_1PNPDE20070106_015108_000000392054_00260_25364_4880.N1	06-JAN-2007 01:51:08	Dark	38.500	109	Bet Lup	2.6770	26000.	77	25364	No
34	GOM_TRA_1PNPDE20070106_015238_000000392054_00260_25364_4881.N1	06-JAN-2007 01:52:38	Dark	39.000	78	Alp Lup	2.3040	28000.	78	25364	No
35	GOM_TRA_1PNPDE20070106_015539_000000402054_00261_25365_4882.N1	06-JAN-2007 01:55:39	Dark	40.000	4	Alp1Cen	-0.010000	5800.0	80	25365	No
36	GOM_TRA_1PNPDE20070106_015800_000000442054_00261_25365_4883.N1	06-JAN-2007 01:58:00	Dark	43.500	64	Gam Cen	2.2000	10600.	87	25365	No
37	GOM_TRA_1PNPDE20070106_015942_000000392054_00261_25365_4884.N1	06-JAN-2007 01:59:42	Dark	38.500	12	Alp1Cru	0.77500	30000.	77	25365	No
38	GOM_TRA_1PNPDE20070106_020303_000000392054_00261_25365_4885.N1	06-JAN-2007 02:03:03	Dark	39.000	124	The Car	2.7640	30000.	78	25365	No
39	GOM_TRA_1PNPDE20070106_020448_000000412054_00261_25365_4886.N1	06-JAN-2007 02:04:48	Dark	41.000	29	Bet Car	1.6720	10200.	82	25365	No
40	GOM_TRA_1PNPDE20070106_020623_000000442054_00261_25365_4887.N1	06-JAN-2007 02:06:23	Dark	44.000	71	lot Car	2.2460	7700.0	88	25365	No
41	GOM_TRA_1PNPDE20070106_021106_000000452054_00261_25365_4888.N1	06-JAN-2007 02:11:06	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	25365	No
42	GOM_TRA_1PNPDE20070106_021318_000000462054_00261_25365_4889.N1	06-JAN-2007 02:13:18	Dark	46.000	70	Zet Pup	2.2460	39000.	92	25365	No
43	GOM_TRA_1PNPDE20070106_021513_000000452054_00261_25365_4890.N1	06-JAN-2007 02:15:13	Dark	45.000	117	Pi Pup	2.7060	3800.0	90	25365	No
44	GOM_TRA_1PNPDE20070106_021755_000000462054_00261_25365_4891.N1	06-JAN-2007 02:17:55	Straylight	45.500	23	21Eps CMa	1.5020	26000.	91	25365	No
45	GOM_TRA_1PNPDE20070106_021925_000000452054_00261_25365_4892.N1	06-JAN-2007 02:19:25	Straylight	44.500	179	24Omi2CMa	3.0320	24000.	89	25365	No
46	GOM_TRA_1PNPDE20070106_022147_000000572054_00261_25365_4893.N1	06-JAN-2007 02:21:47	Straylight	57.000	1	9Alp CMa	-1.4400	11000.	114	25365	No
47	GOM_TRA_1PNPDE20070106_022415_000000412054_00261_25365_4894.N1	06-JAN-2007 02:24:15	Straylight	41.000	56	53Kap Ori	2.0650	30000.	82	25365	No
48	GOM_TRA_1PNPDE20070106_022643_000000432054_00261_25365_4895.N1	06-JAN-2007 02:26:43	Straylight	43.000	30	46Eps Ori	1.6940	30000.	86	25365	No
49	GOM_TRA_1PNPDE20070106_022907_000000482054_00261_25365_4896.N1	06-JAN-2007 02:29:07	Tw_i_and_stray	48.000	14	58Alp Ori	0.87000	3000.0	96	25365	No

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



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

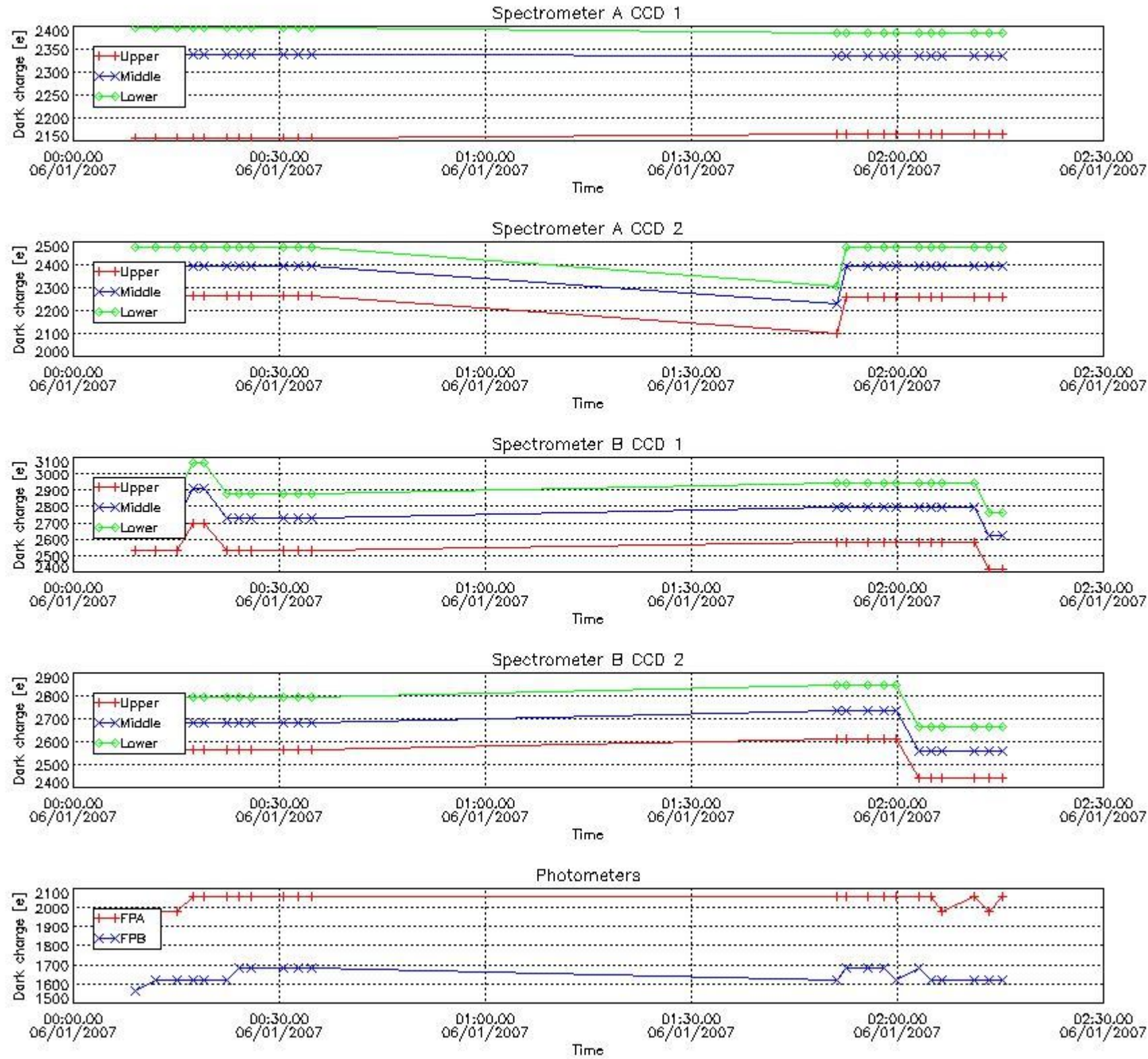
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





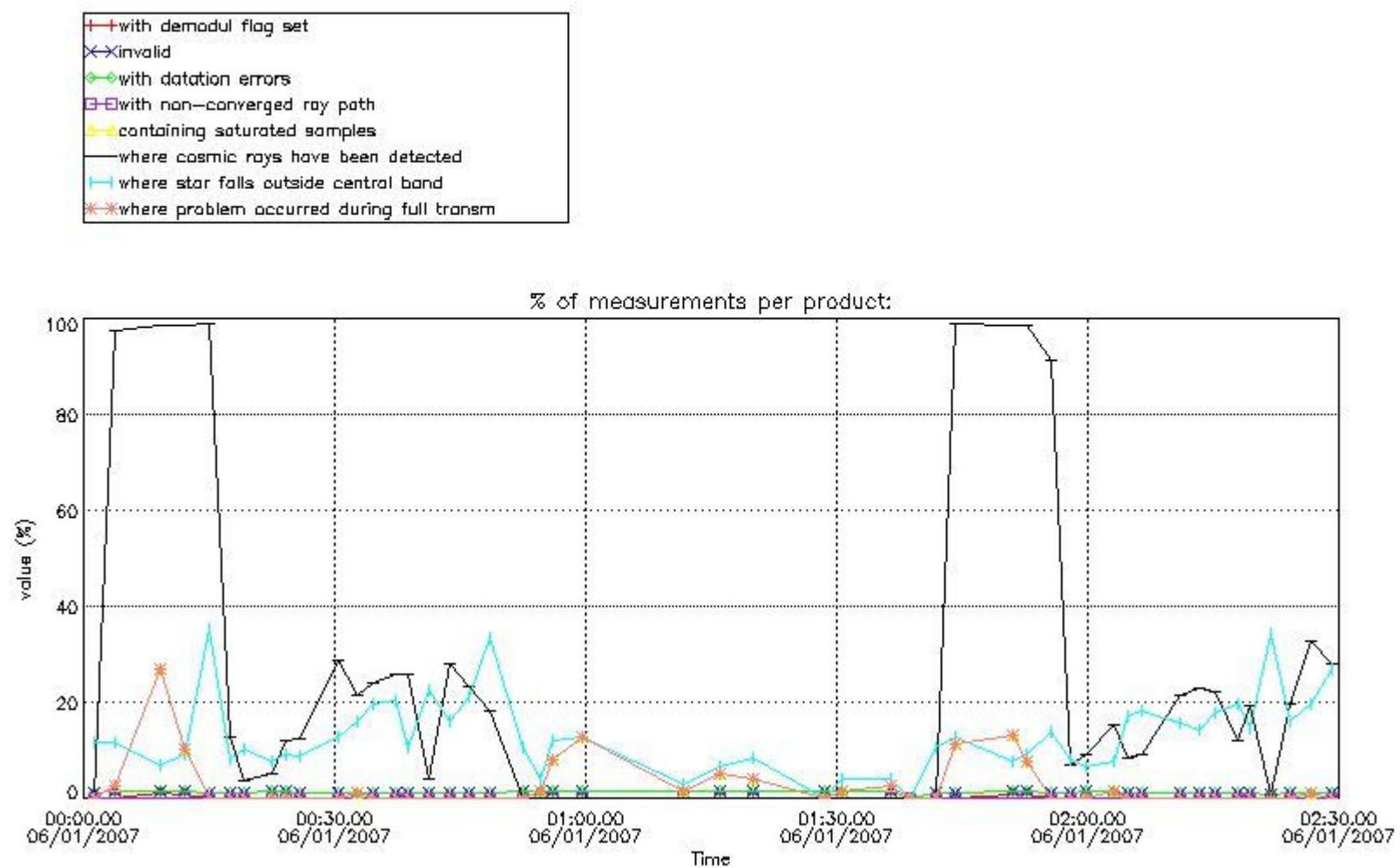
## 5. Demodulation flag and quality information monitoring

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:

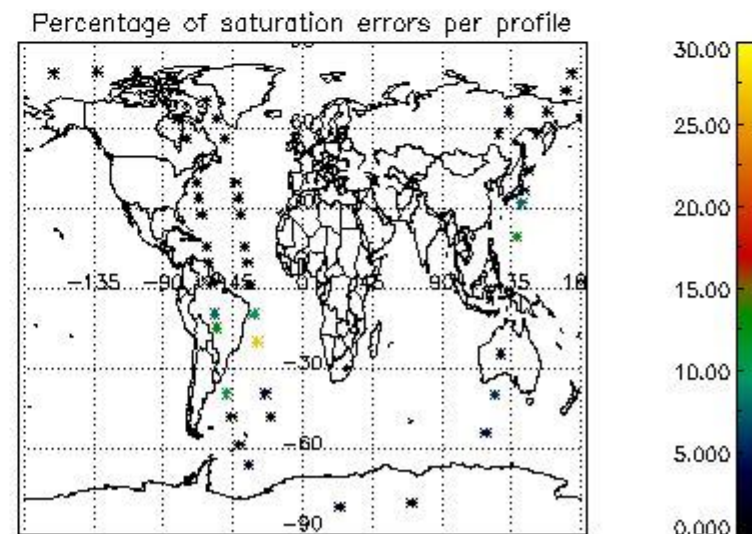
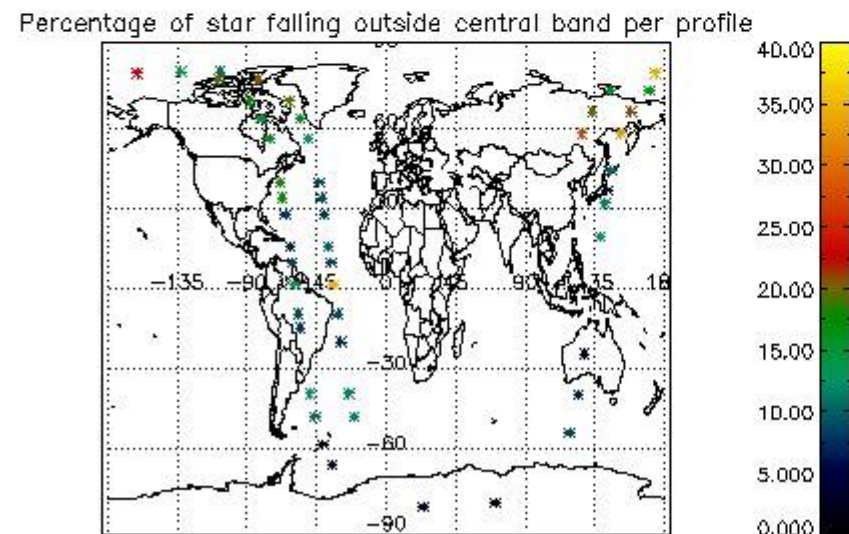
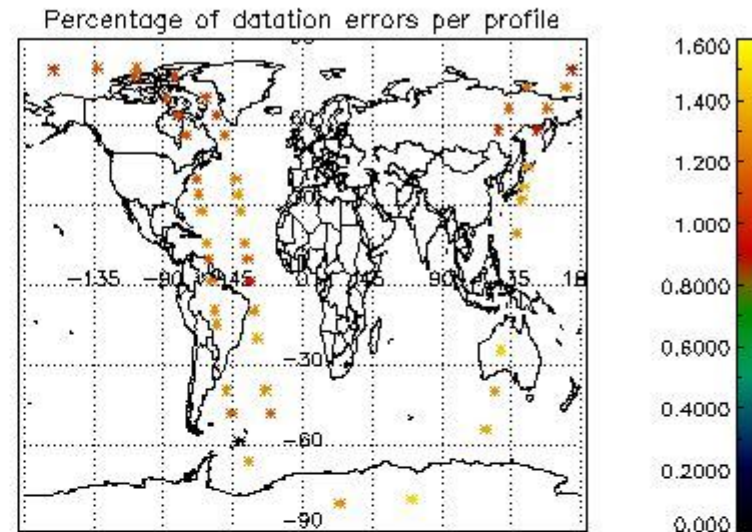
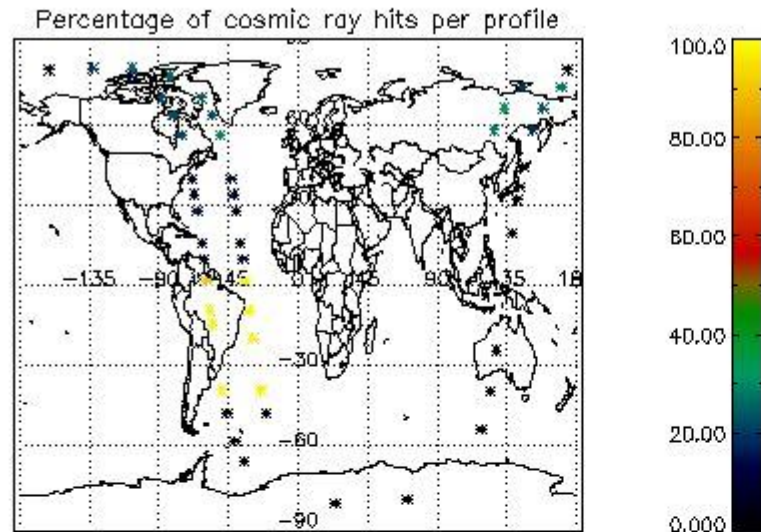
At least one measurement with demodulation flag set:	22.4490 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





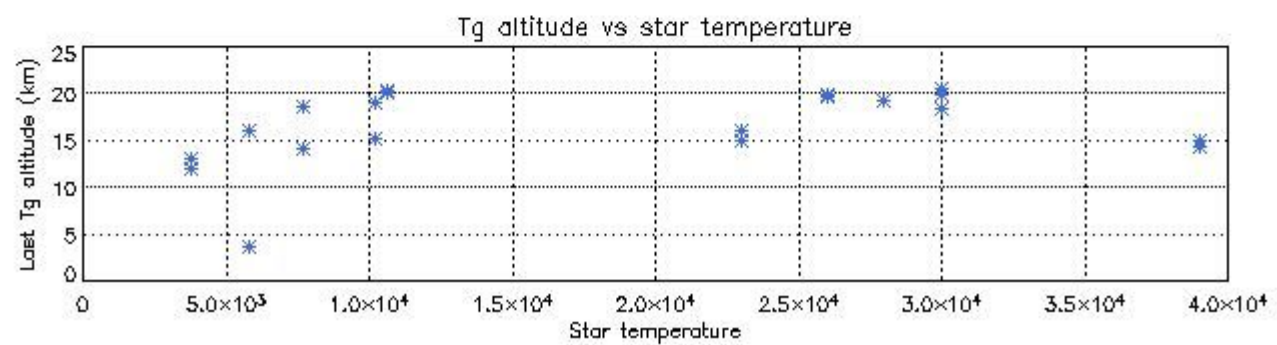
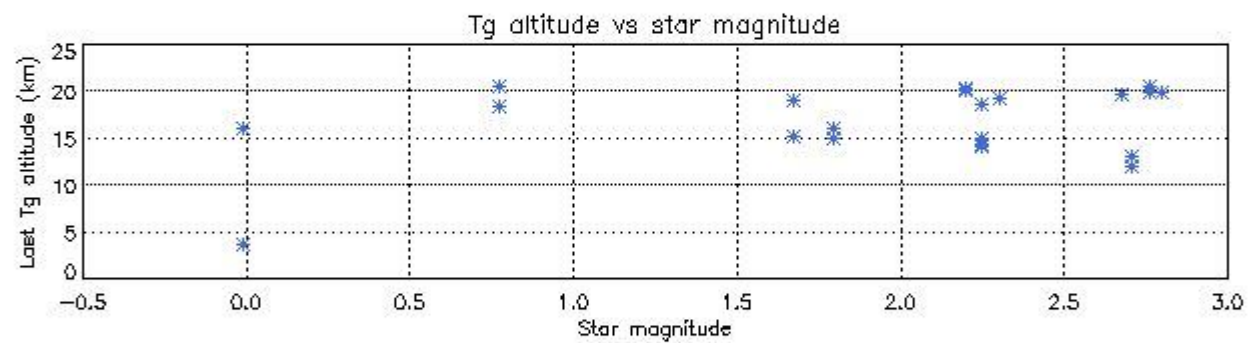
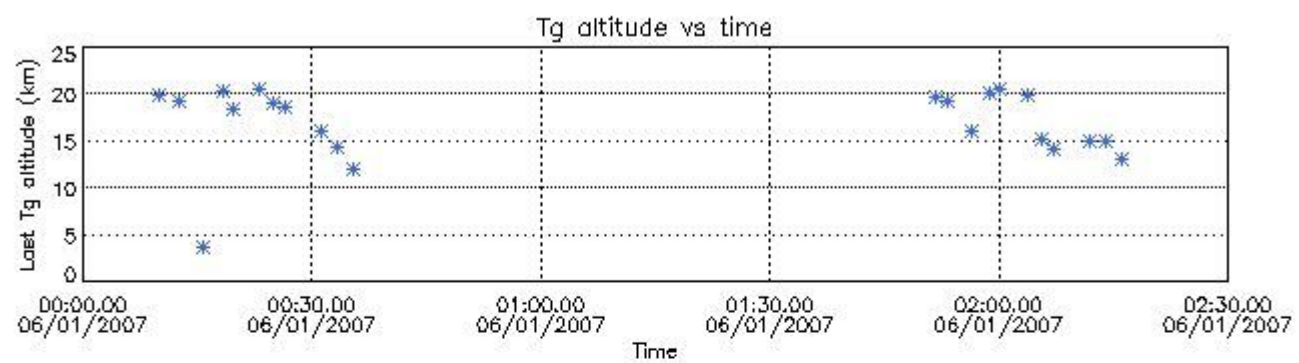
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.788	19.598	NaN
St. deviation:	4.0021	3.7912	NaN
Maximum:	20.484	26.075	NaN
Minimum:	3.5604	15.151	NaN
Number of data:	22.000	15.000	NaN

### 6.2 Plot for DARK limb products

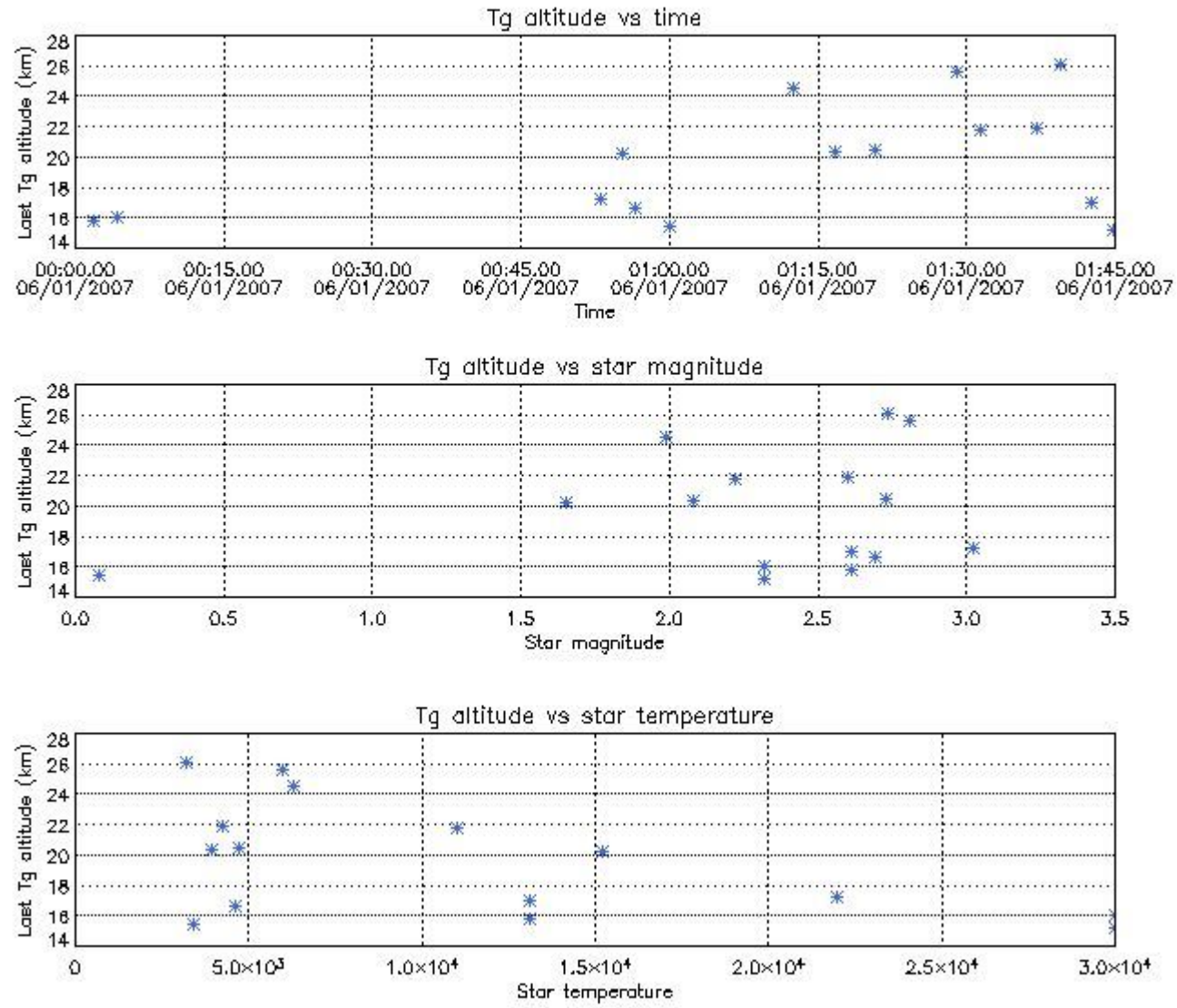
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

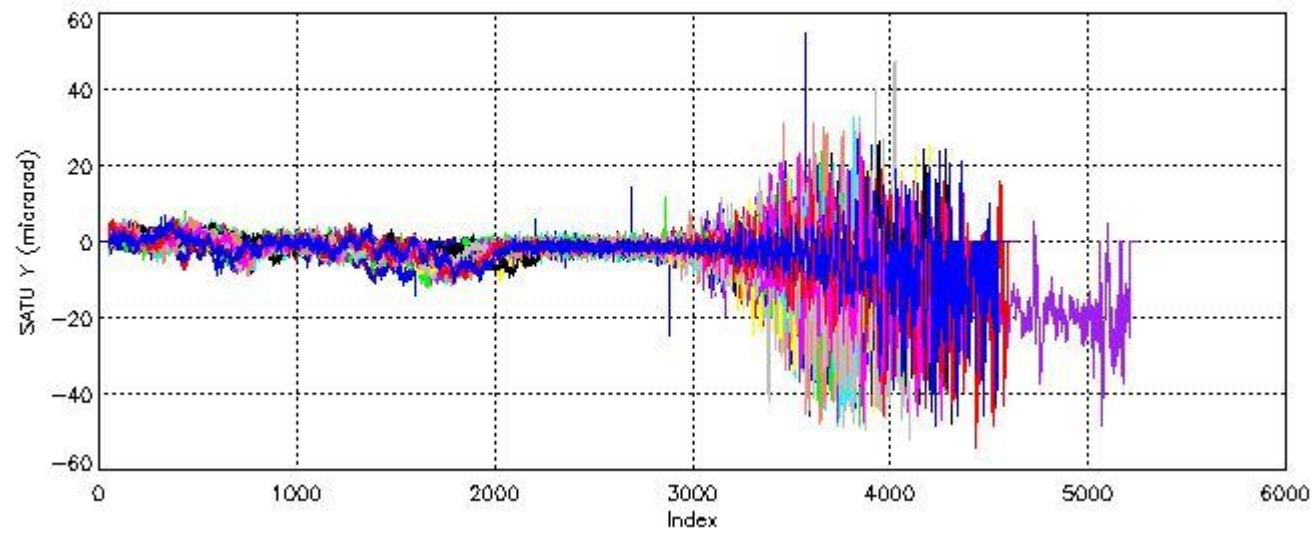
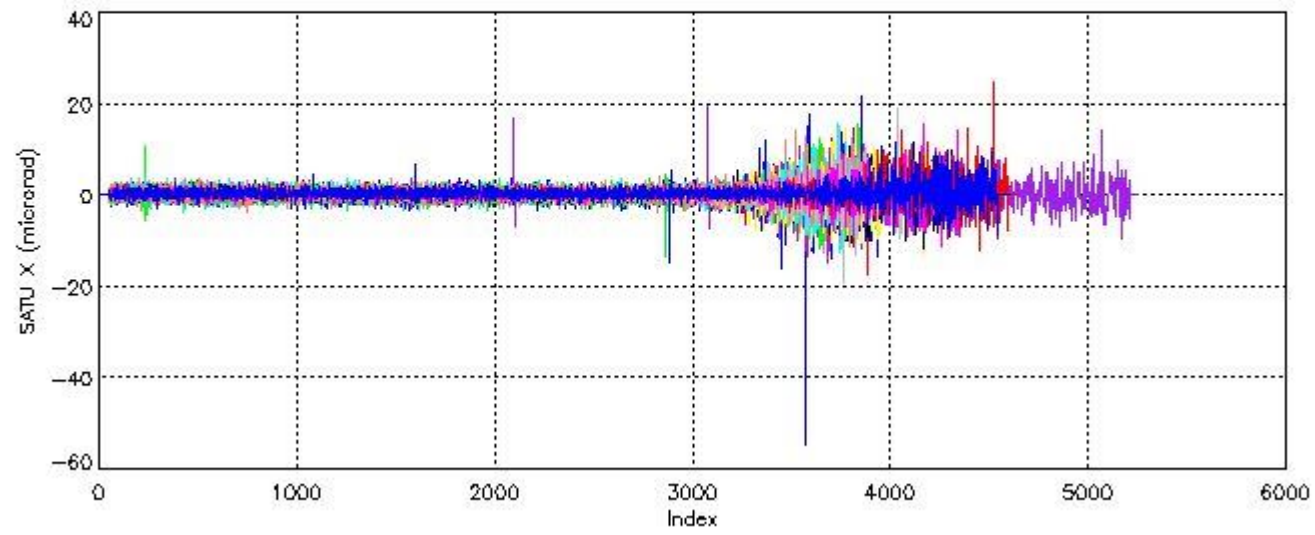


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.16172	0.014147	0.063229	-0.65834
St. deviation:	0.59650	2.1507	0.68888	2.0488
Maximum:	10.800	7.8000	3.9000	7.3000
Minimum:	-5.5000	-8.9000	-4.6000	-9.9000

Number of data:	20900.	20900.	12900.	12900.
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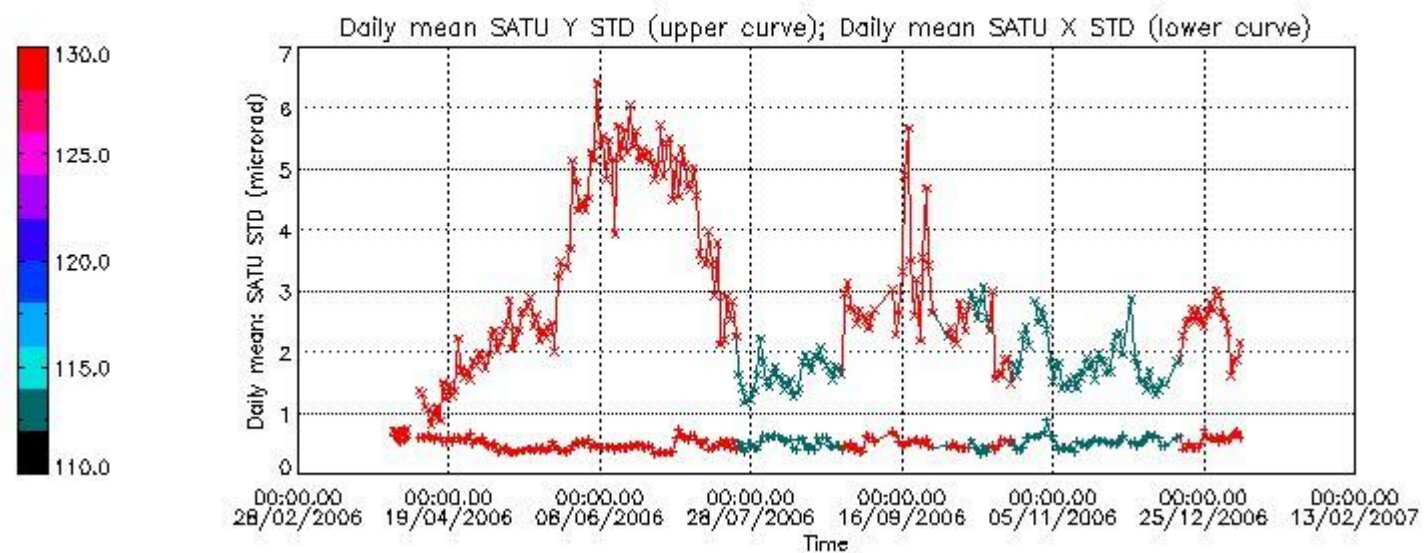
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

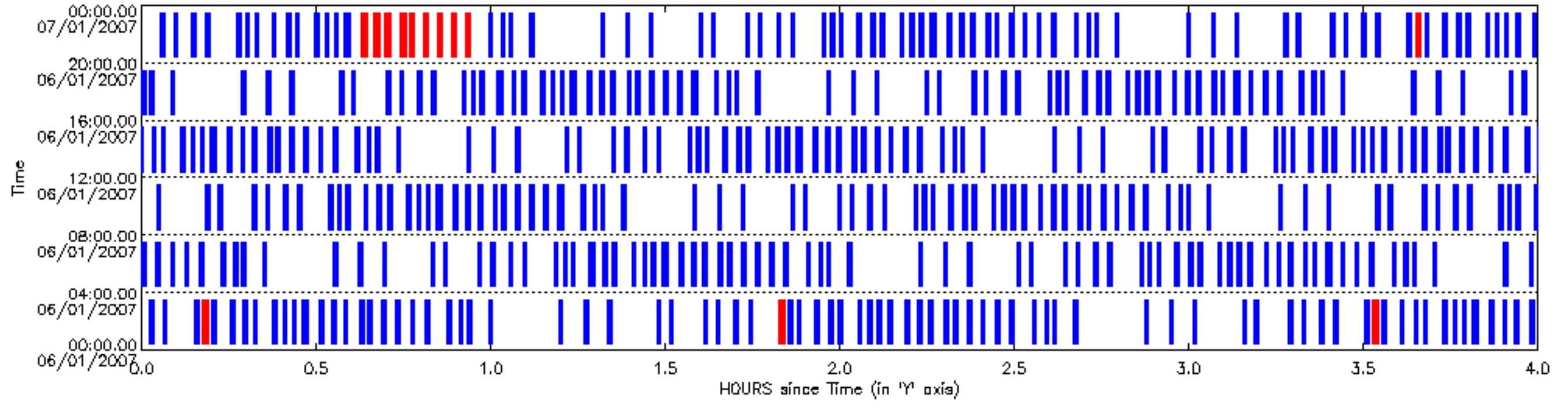


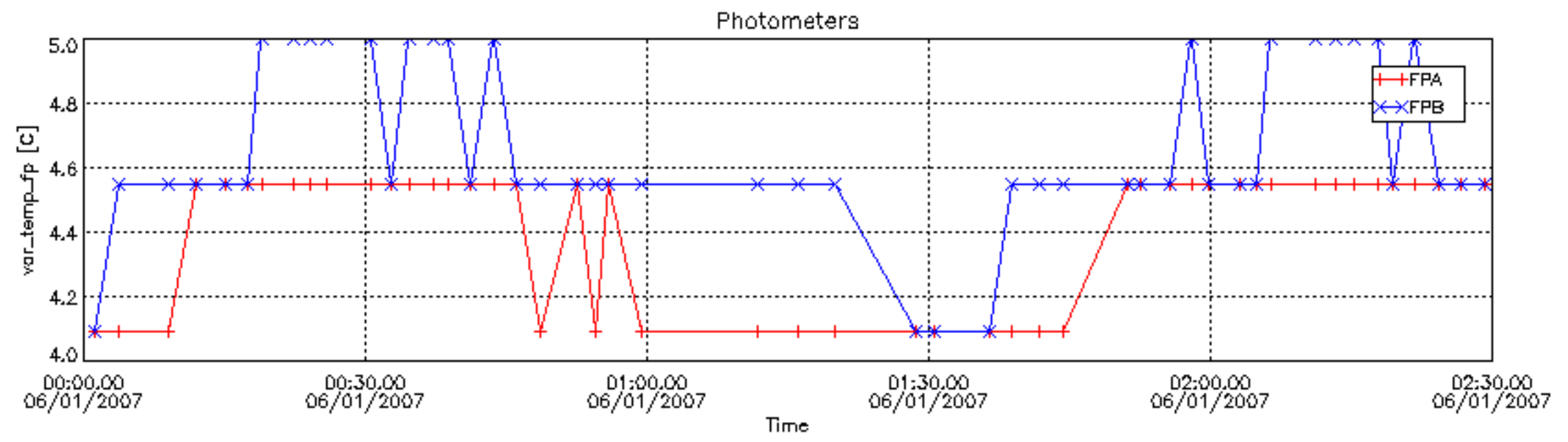
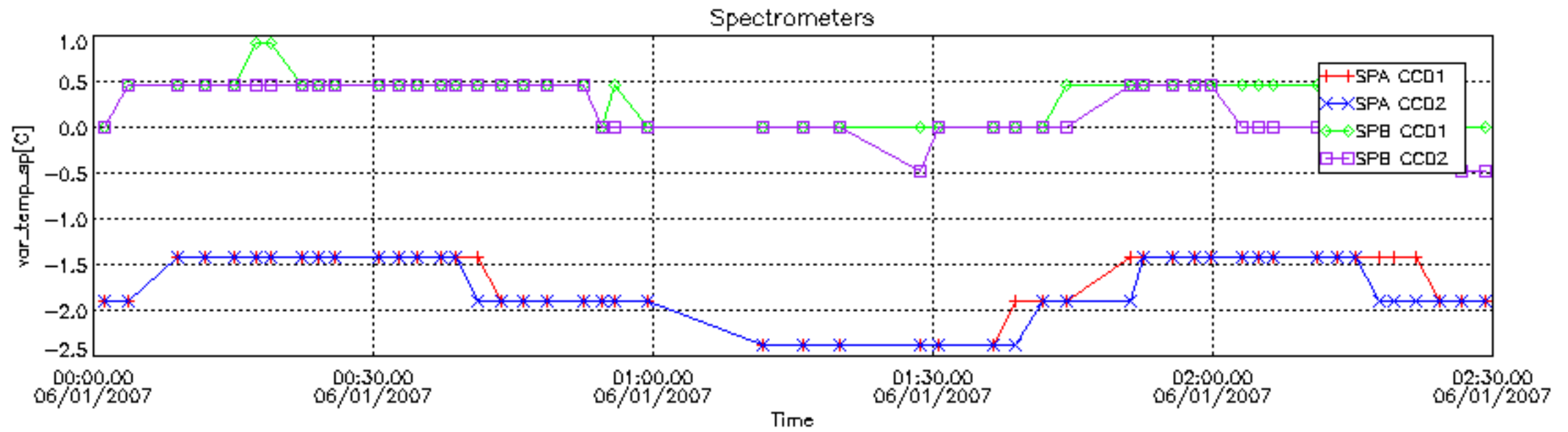
### 8. Auxiliary Data Files used for the production reported in section 2.4

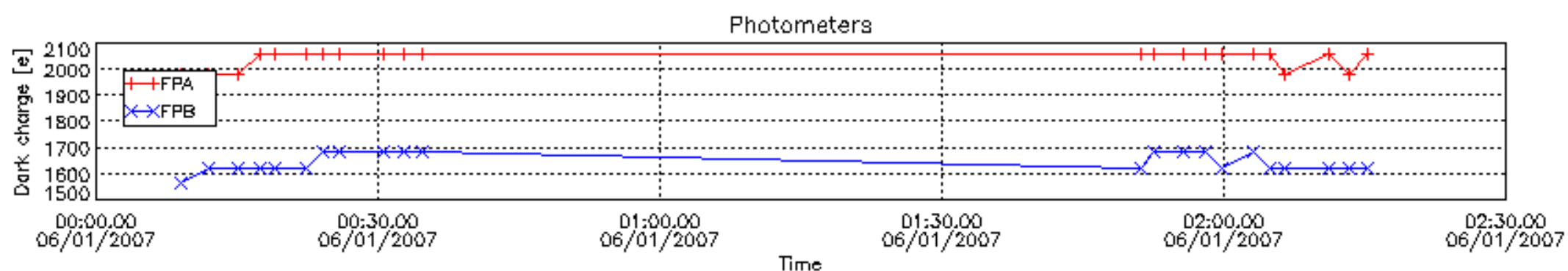
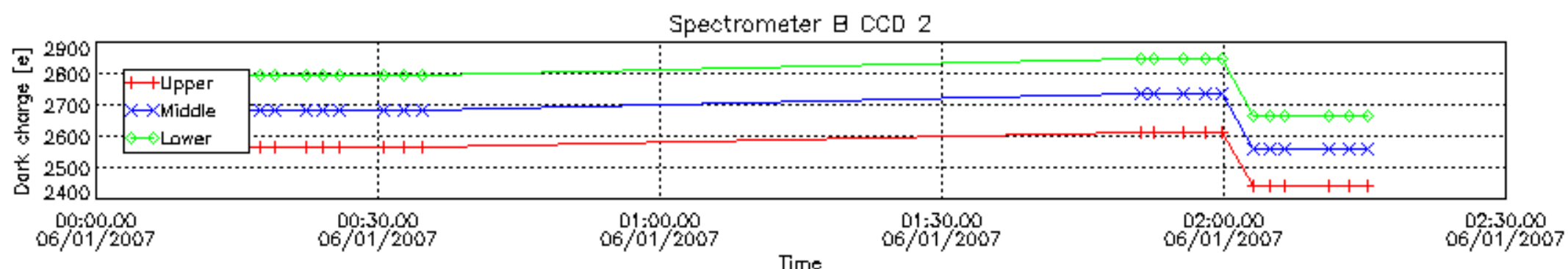
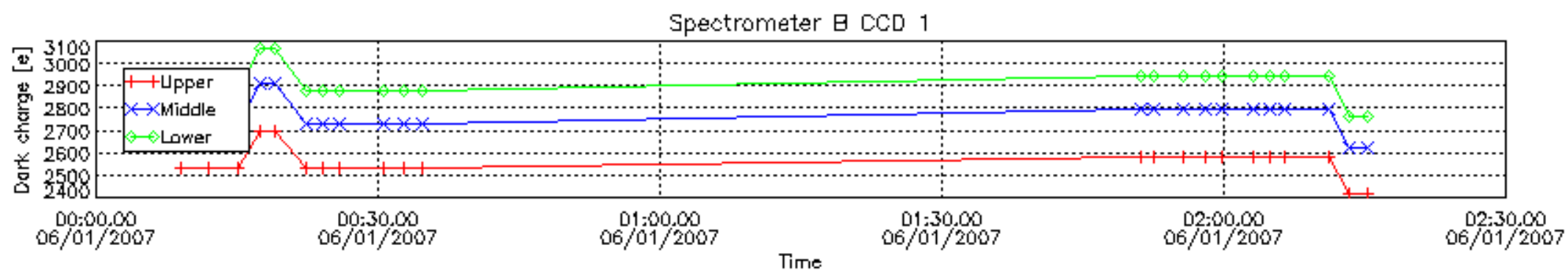
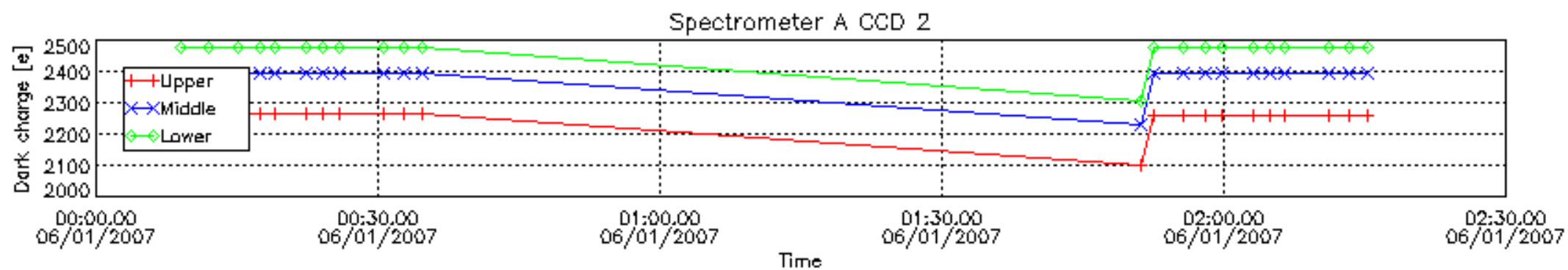
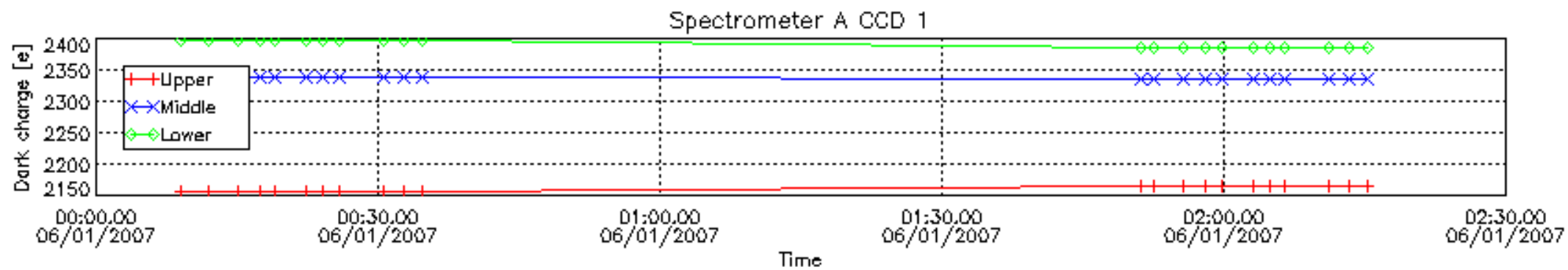
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	06-JAN-2007 00:01:12
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070105_103648_20070104_000000_20100101_000000	1	06-JAN-2007 00:01:12
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-JAN-2007 00:01:12
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-JAN-2007 00:01:12
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-JAN-2007 00:01:12
ECMWF_FILE	AUX_ECF_AXNECM20070105_062419_20070105_210000_20070106_090000	1	06-JAN-2007 00:01:12
OPTIONAL_ECMWF_FILE	MISSING	1	06-JAN-2007 00:01:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070105_221840_000057382054_00258_25362_2514.N1	1	06-JAN-2007 00:01:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070105_235937_000054192054_00259_25363_2515.N1	31	06-JAN-2007 01:41:49

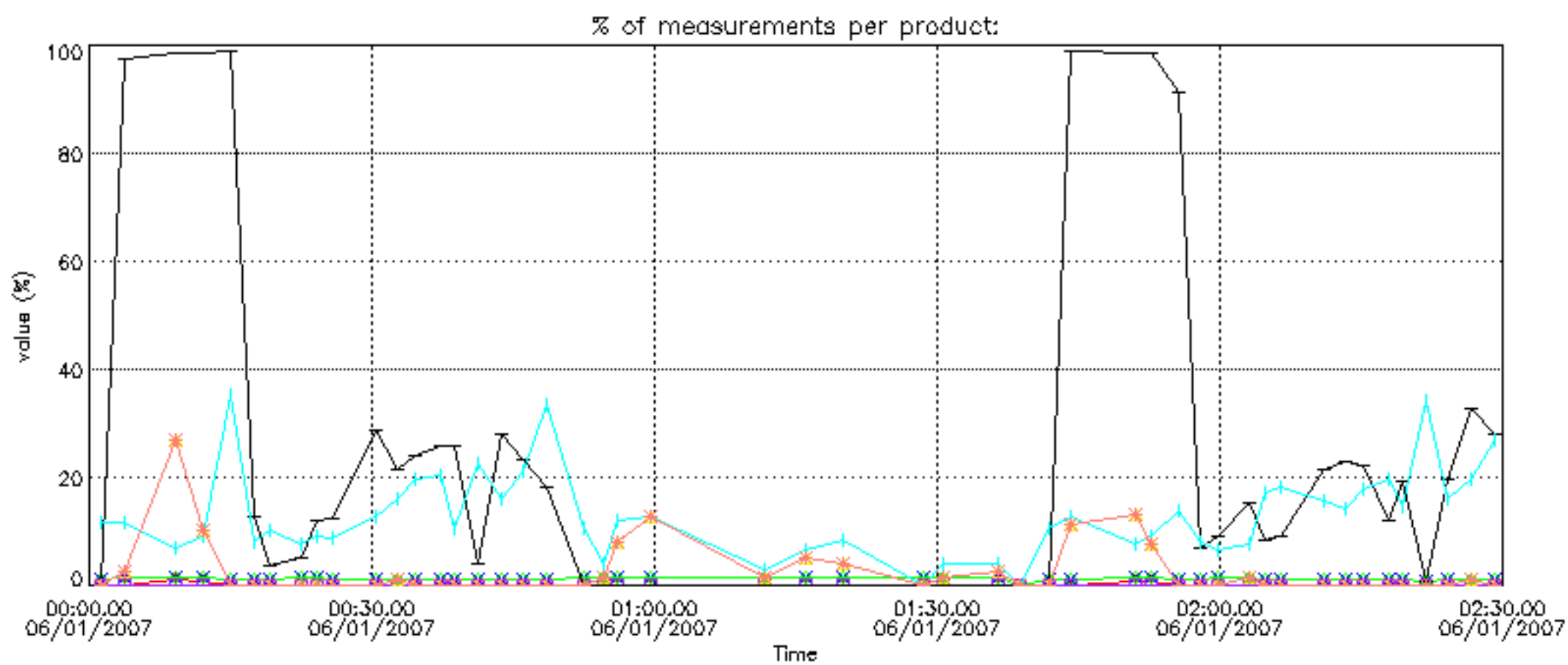




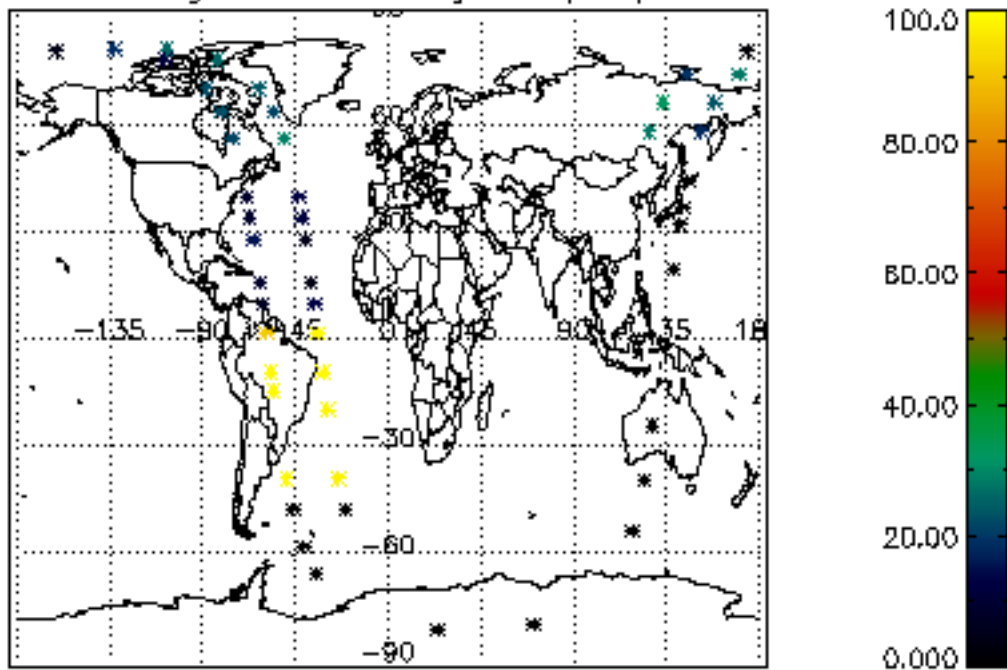




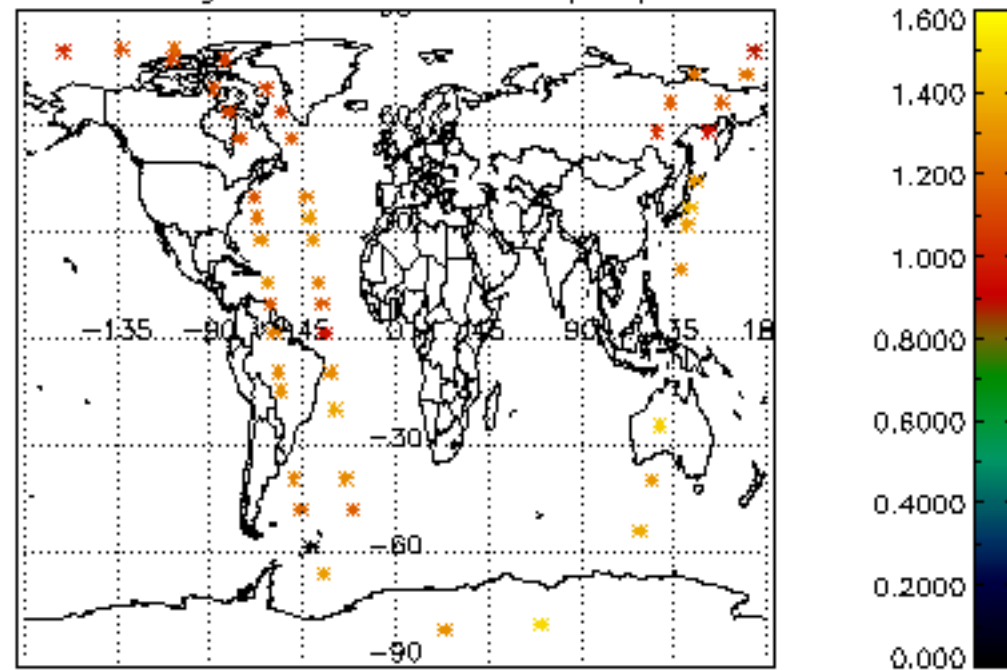




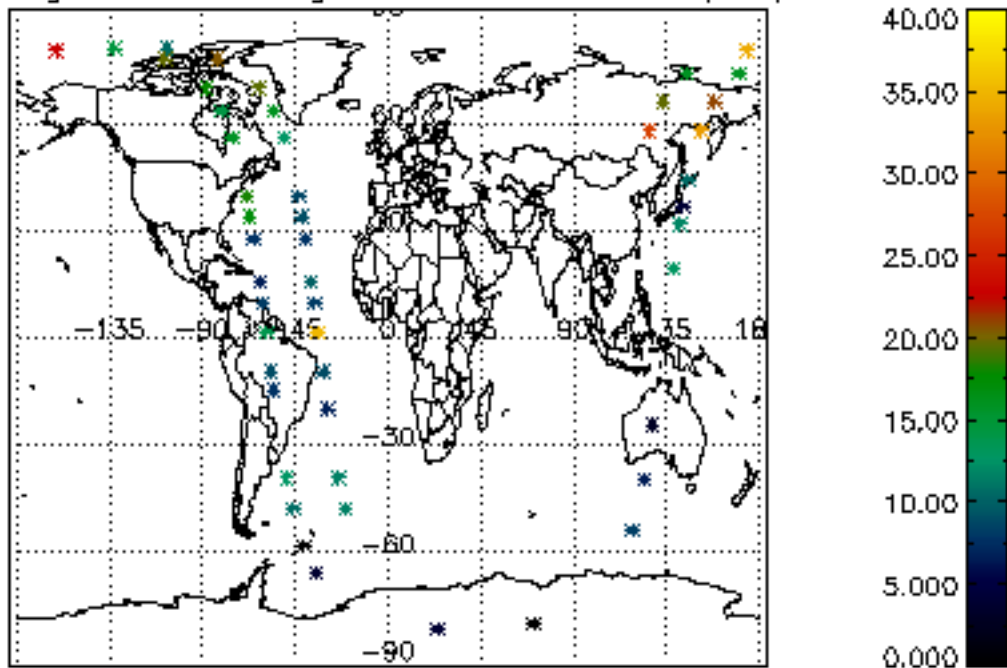
Percentage of cosmic ray hits per profile



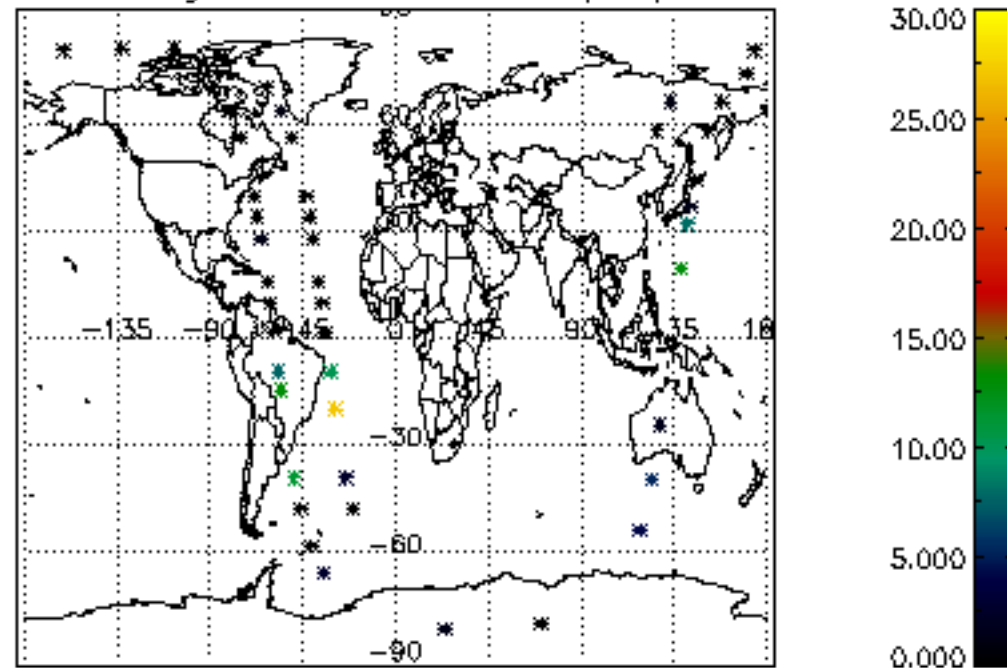
Percentage of datation errors per profile



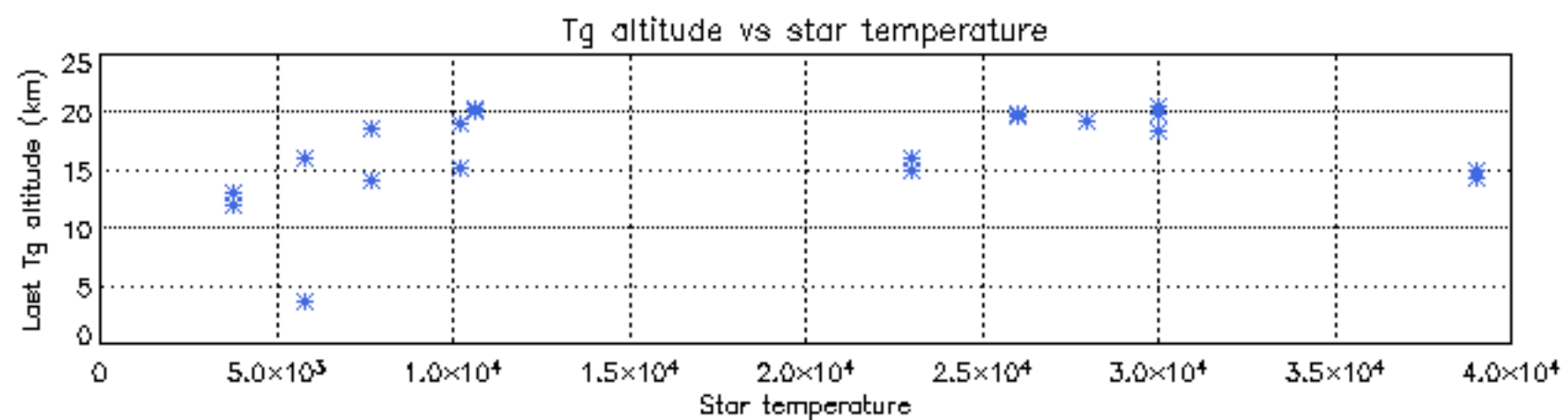
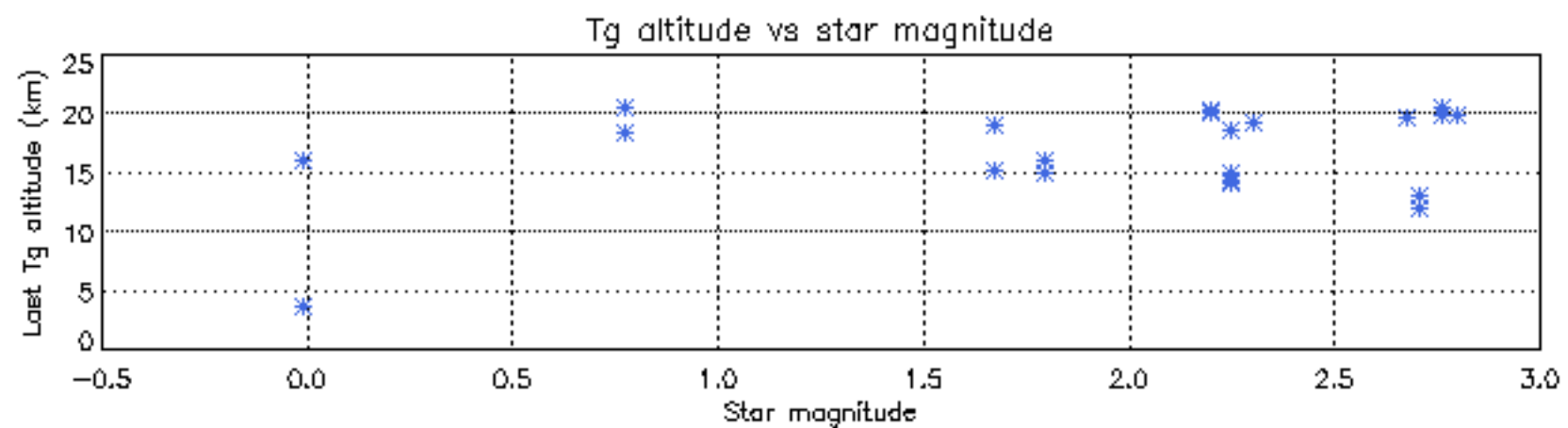
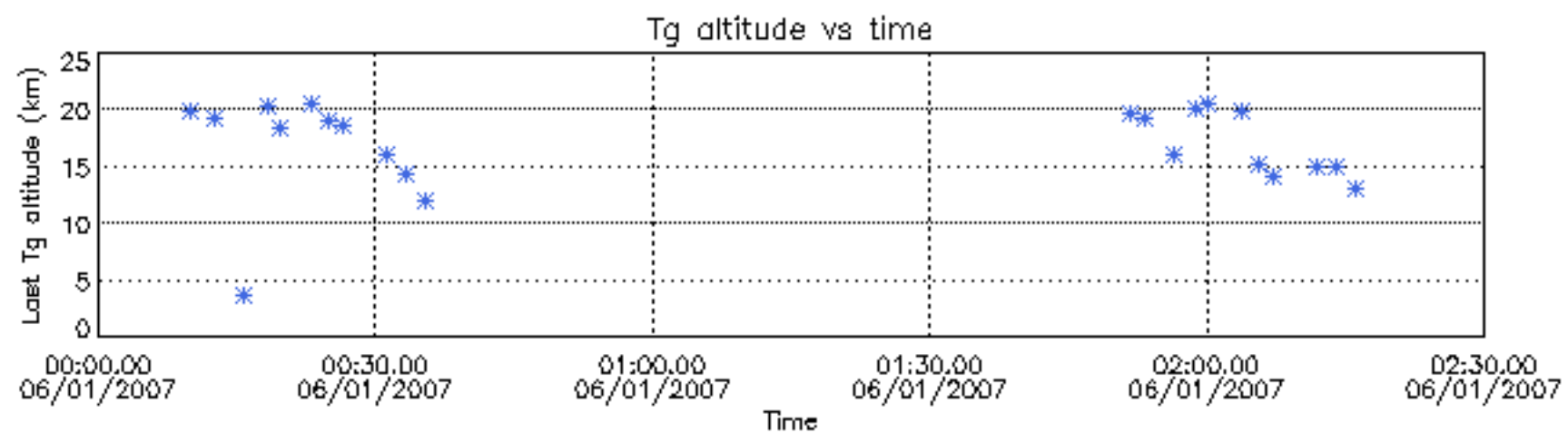
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

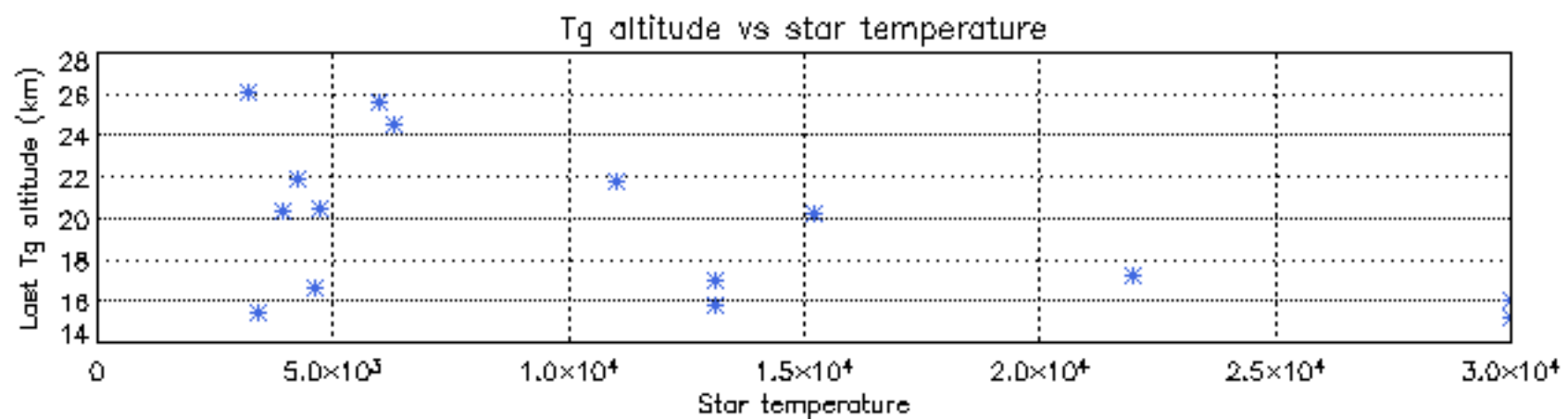
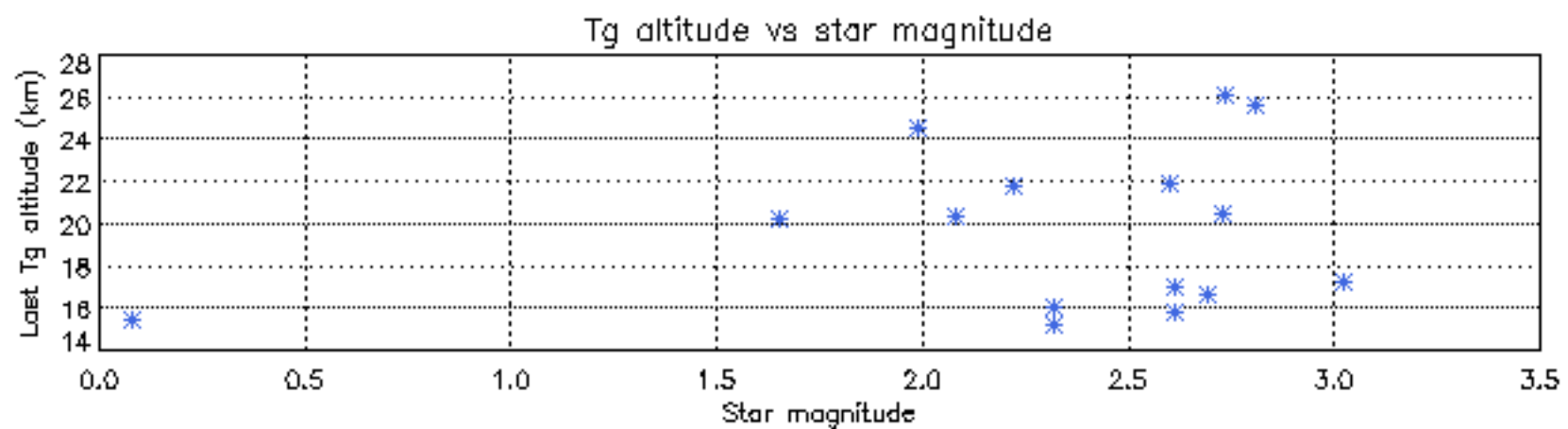
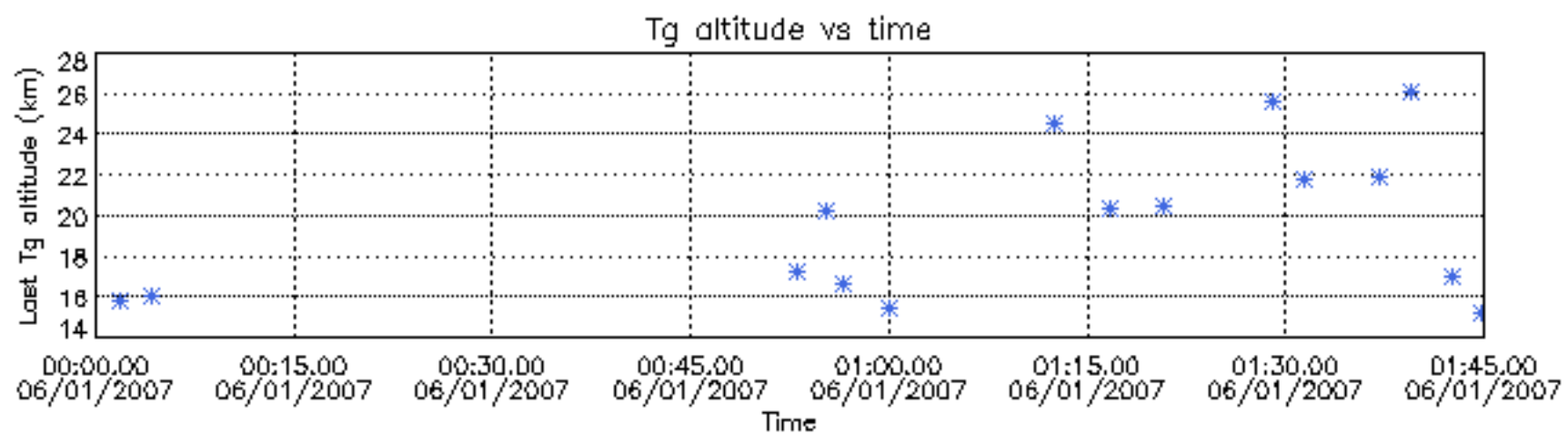


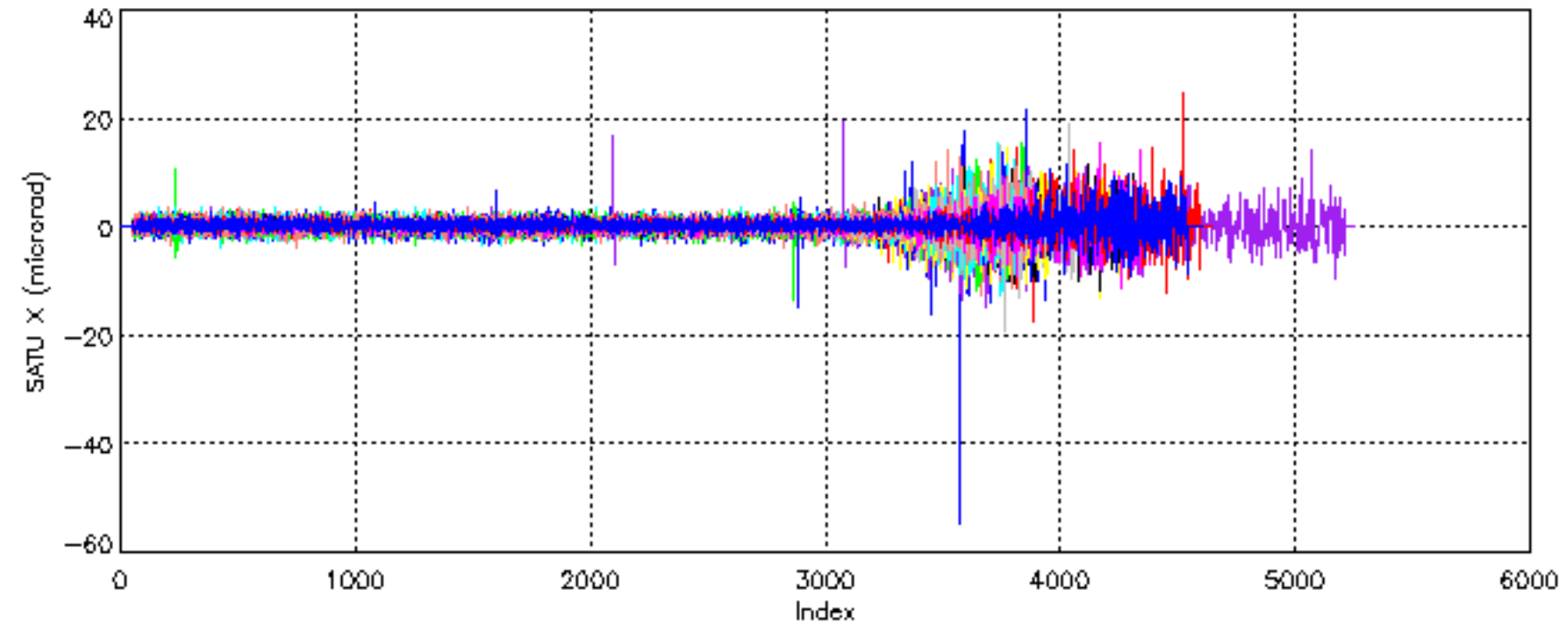
Tangent altitude at which the star is lost

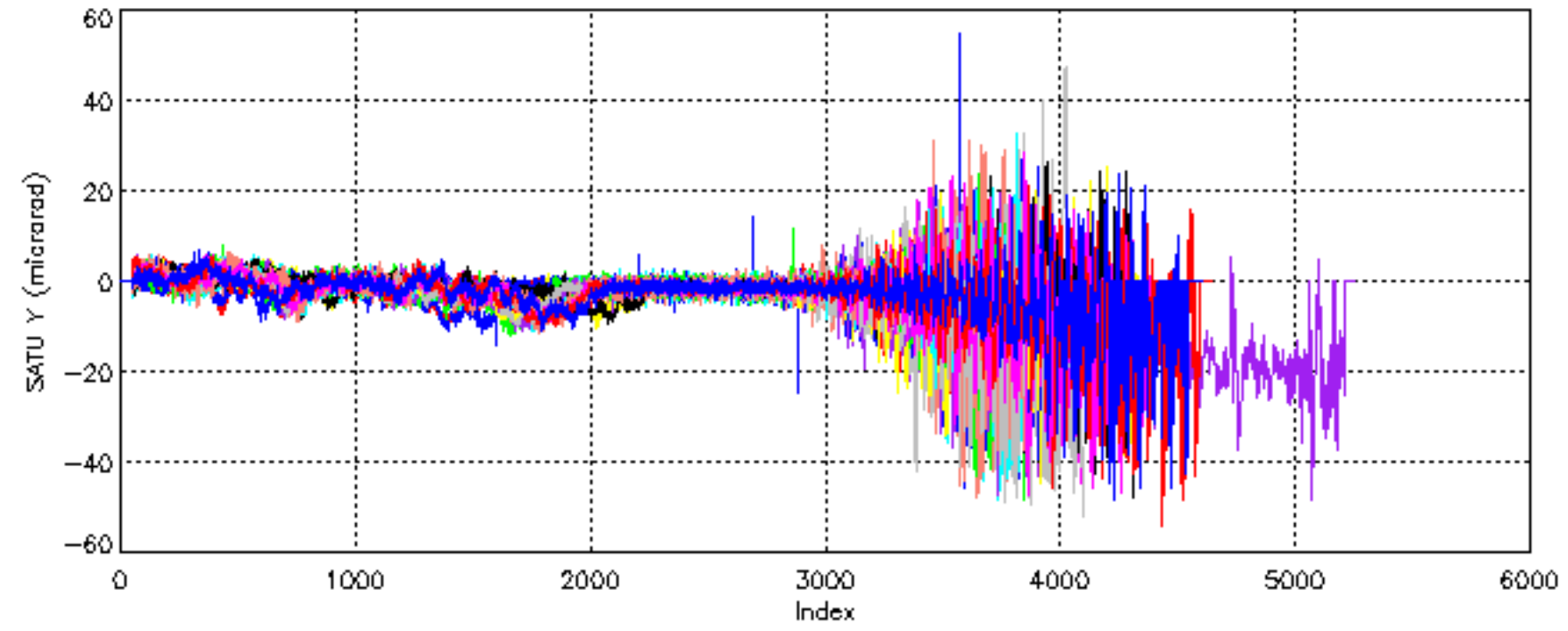




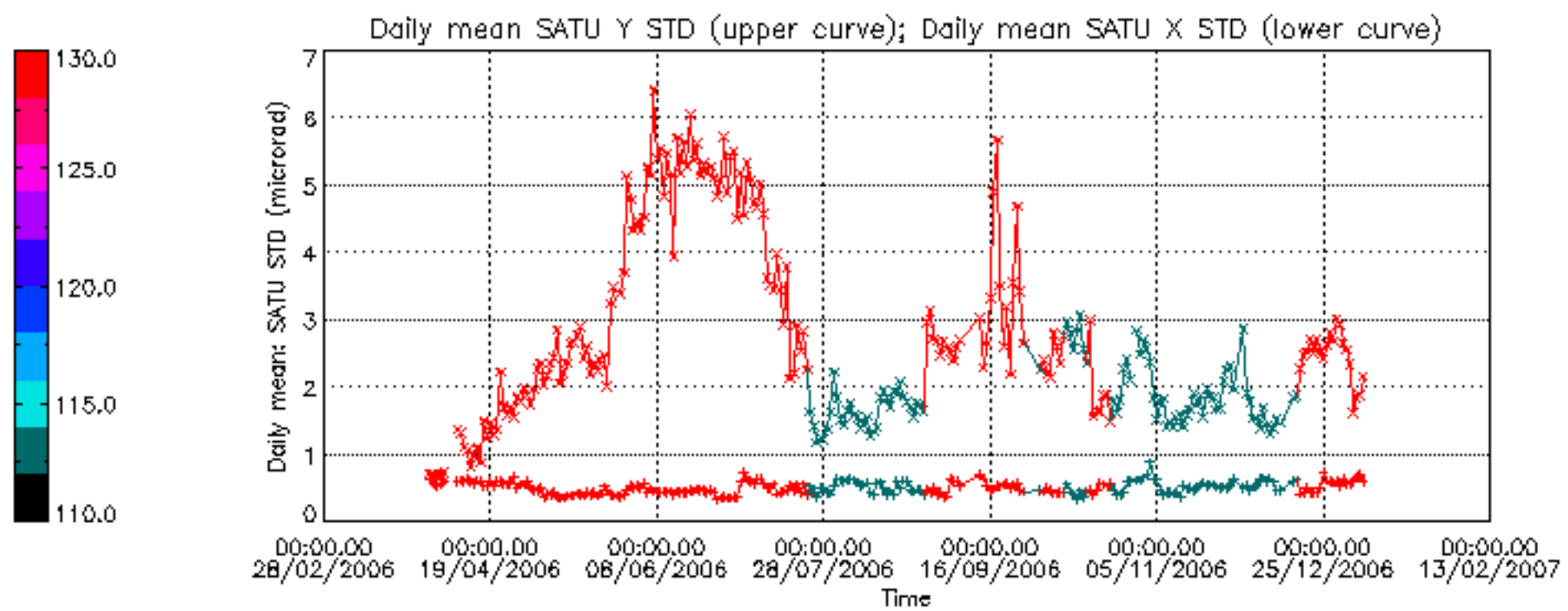
Tangent altitude at which the star is lost











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 3; -105.1; 01-JAN-2007 01:10:25; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25292  
 4; 38.6; 01-JAN-2007 01:12:49; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25293  
 5; 228.2; 01-JAN-2007 01:15:58; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;25293  
 6; 429.2; 01-JAN-2007 01:19:19; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25293  
 7; 546.4; 01-JAN-2007 01:21:17; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25293  
 8; 629.3; 01-JAN-2007 01:22:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;25293  
 9; 731.4; 01-JAN-2007 01:24:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25293  
 10; 978.2; 01-JAN-2007 01:28:28; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;25293  
 11; 1171.6; 01-JAN-2007 01:31:42; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;25293  
 12; 1340.2; 01-JAN-2007 01:34:30; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;25293  
 13; 1569.2; 01-JAN-2007 01:38:19; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;25293  
 14; 1769.4; 01-JAN-2007 01:41:40; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25293  
 15; 1881.5; 01-JAN-2007 01:43:32; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25293  
 16; 2033.3; 01-JAN-2007 01:46:04; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25293  
 17; 2271.5; 01-JAN-2007 01:50:02; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25293  
 18; 2397.8; 01-JAN-2007 01:52:08; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;25293  
 19; 2472.5; 01-JAN-2007 01:53:23; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25293  
 20; 2568.2; 01-JAN-2007 01:54:58; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25293  
 21; 2693.1; 01-JAN-2007 01:57:03; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;25293  
 22; 3423.2; 01-JAN-2007 02:09:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;25293  
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 4; -1146.0; 01-JAN-2007 02:33:40; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;25293  
 5; -842.6; 01-JAN-2007 02:38:44; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25293  
 6; -281.2; 01-JAN-2007 02:48:05; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25293  
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 9; 39.0; 01-JAN-2007 02:53:25; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;25294  
 10; 228.9; 01-JAN-2007 02:56:35; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;25294  
 11; 429.7; 01-JAN-2007 02:59:56; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25294  
 12; 547.0; 01-JAN-2007 03:01:53; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25294  
 13; 629.9; 01-JAN-2007 03:03:16; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;25294  
 14; 732.0; 01-JAN-2007 03:04:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25294  
 15; 978.5; 01-JAN-2007 03:09:05; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;25294  
 16; 1172.1; 01-JAN-2007 03:12:18; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25294  
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 18; 1569.2; 01-JAN-2007 03:18:55; Dark ; 44.5; 47; 2Bet CMA ; 1.98; 28000;occ; 89; 0;25294  
 19; 1769.6; 01-JAN-2007 03:22:16; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25294  
 20; 1881.5; 01-JAN-2007 03:24:08; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25294  
 21; 2033.2; 01-JAN-2007 03:26:39; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;25294  
 22; 2271.5; 01-JAN-2007 03:30:38; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;25294  
 23; 2397.7; 01-JAN-2007 03:32:44; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;25294  
 24; 2472.6; 01-JAN-2007 03:33:59; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25294  
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 26; 2693.1; 01-JAN-2007 03:37:39; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;25294  
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 4; -1490.3; 01-JAN-2007 04:08:32; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;25294  
 5; -1145.6; 01-JAN-2007 04:14:17; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;25294  
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 7; -683.3; 01-JAN-2007 04:21:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;25294  
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 11; 39.4; 01-JAN-2007 04:34:02; Dark ; 49.5; 10; Bet Cen ; 0.61; 28000;occ; 99; 0;25295  
 12; 229.3; 01-JAN-2007 04:37:11; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;25295  
 13; 430.3; 01-JAN-2007 04:40:32; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;25295  
 14; 547.2; 01-JAN-2007 04:42:29; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25295  
 15; 630.4; 01-JAN-2007 04:43:53; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25295

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17; 978.8; 01-JAN-2007 04:49:41; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;25295
18; 1172.4; 01-JAN-2007 04:52:55; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;25295
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26; 2472.7; 01-JAN-2007 05:14:35; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25295
27; 2567.6; 01-JAN-2007 05:16:10; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;25295
28; 2693.0; 01-JAN-2007 05:18:15; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;25295
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4; -1490.2; 01-JAN-2007 05:49:08; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;25295
5; -1145.4; 01-JAN-2007 05:54:53; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;25295
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21; 1769.9; 01-JAN-2007 06:43:28; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;25296
22; 1881.6; 01-JAN-2007 06:45:20; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;25296
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27; 2567.5; 01-JAN-2007 06:56:46; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25296
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7; 2032.5; 01-JAN-2007 20:12:38; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;25304
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 14; 428.7; 08-JAN-2007 06:00:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25396  
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 16; 682.7; 08-JAN-2007 06:05:12; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;25396  
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 18; 1003.2; 08-JAN-2007 06:10:33; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;25396  
 19; 1206.6; 08-JAN-2007 06:13:56; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;25396  
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 22; 1594.5; 08-JAN-2007 06:20:24; Dark ; 55.0; 1; 9Alp CMA ; -1.44; 11000;occ; 110; 0;25396  
 23; 1784.8; 08-JAN-2007 06:23:34; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25396  
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 29; 2681.3; 08-JAN-2007 06:38:31; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;25396  
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 13; 4434.2; 06-JAN-2007 14:53:22; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;25372  
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 18; 5377.5; 06-JAN-2007 15:09:05; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;25372  
 19; 5703.3; 06-JAN-2007 15:14:31; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;25372  
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 23; 6207.2; 06-JAN-2007 15:22:55; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;25372  
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 25; 6506.5; 06-JAN-2007 15:27:54; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;25372  
 26; 6610.8; 06-JAN-2007 15:29:38; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25372  
 27; 6707.1; 06-JAN-2007 15:31:15; Dark ; 4.0; 71; Iot Car ; 2.25; 7700;occ; 8; 0;25372

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 8; 1888.0; 06-JAN-2007 19:12:44; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;25375  
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 23; 5704.5; 06-JAN-2007 20:16:20; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;25375  
 24; 5793.3; 06-JAN-2007 20:17:49; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;25375  
 25; 5883.0; 06-JAN-2007 20:19:19; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;25375  
 26; 6062.6; 06-JAN-2007 20:22:18; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;25375  
 27; 6209.6; 06-JAN-2007 20:24:45; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;25375  
 28; 6307.4; 06-JAN-2007 20:26:23; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;25375  
 29; 6508.0; 06-JAN-2007 20:29:44; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25375  
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 31; 6708.5; 06-JAN-2007 20:33:04; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;25375  
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 23; 6461.1; 07-JAN-2007 09:53:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25383  
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 32; 3671.6; 12-JAN-2007 04:48:32; Bright; 27.5; 60; 7Bet UMi ; 2.08; 3950;occ; 55; 0;25452

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10; 3924.1; 12-JAN-2007 08:13:57; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25454
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13; 4629.4; 12-JAN-2007 08:25:42; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;25454
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7; 110.8; 12-JAN-2007 08:50:59; Dark ; 37.5; 10; Bet Cen ; 0.61; 28000;occ; 75; 0;25455  
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9; 512.1; 12-JAN-2007 08:57:41; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;25455  
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26; 6747.4; 12-JAN-2007 10:41:36; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;25455  
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12; 3924.0; 12-JAN-2007 11:35:08; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;25456  
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7;	2414.3;	19-JAN-2007	09:09:14;	Bright;		36.0;	28;	12Bet Tau	;	1.65;	15200;occ;	72;	0;	25555
8;	2542.0;	19-JAN-2007	09:11:21;	Bright;		35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	25555
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15;	5200.4;	19-JAN-2007	09:55:40;	Bright;		39.0;	98;	13Zet Oph	;	2.57;	30000;occ;	78;	0;	25555
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18;	5792.0;	19-JAN-2007	10:05:31;	Dark	;	40.5;	131;	Gam Lup	;	2.80;	26000;occ;	81;	0;	25555
19;	6137.6;	19-JAN-2007	10:11:17;	Dark	;	41.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	82;	0;	25555
20;	6329.1;	19-JAN-2007	10:14:29;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25555
21;	6669.5;	19-JAN-2007	10:20:09;	Dark	;	29.0;	29;	Bet Car	;	1.67;	10200;occ;	58;	0;	25555

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4;	1032.8;	19-JAN-2007	10:26:48;	Dark	;	51.5;	2;	Alp Car	;	-0.74;	7000;occ;	103;	0;	25556
5;	1154.5;	19-JAN-2007	10:28:50;	Dark	;	40.5;	70;	Zet Pup	;	2.25;	39000;occ;	81;	0;	25556
6;	1250.0;	19-JAN-2007	10:30:25;	Dark	;	42.5;	117;	Pi Pup	;	2.71;	3800;occ;	85;	0;	25556
7;	1400.7;	19-JAN-2007	10:32:56;	Dark	;	42.5;	23;	21Eps CMa	;	1.50;	26000;occ;	85;	0;	25556
8;	1485.1;	19-JAN-2007	10:34:20;	Dark	;	39.0;	179;	240mi2CMa	;	3.03;	24000;occ;	78;	0;	25556
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3;	1916.4;	19-JAN-2007	10:41:32;	Dark	;	40.0;	30;	46Eps Ori	;	1.69;	30000;occ;	80;	0;	25556
4;	2046.2;	19-JAN-2007	10:43:42;	Dark	;	52.0;	14;	58Alp Ori	;	0.87;	3000;occ;	104;	0;	25556
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6;	2291.4;	19-JAN-2007	10:47:47;	Bright;		39.0;	151;	13Mu Gem	;	2.89;	3000;occ;	78;	0;	25556
7;	2414.4;	19-JAN-2007	10:49:50;	Bright;		36.0;	28;	12Bet Tau	;	1.65;	15200;occ;	72;	0;	25556
8;	2541.9;	19-JAN-2007	10:51:57;	Bright;		34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	25556
9;	2672.0;	19-JAN-2007	10:54:07;	Bright;		35.5;	42;	34Bet Aur	;	1.90;	10200;occ;	71;	0;	25556
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11;	4081.2;	19-JAN-2007	11:17:37;	Bright;		36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25556
12;	4274.7;	19-JAN-2007	11:20:50;	Bright;		36.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	73;	0;	25556
13;	4752.6;	19-JAN-2007	11:28:48;	Bright;		33.0;	59;	55Alp Oph	;	2.08;	8900;occ;	66;	0;	25556
14;	4879.4;	19-JAN-2007	11:30:55;	Bright;		32.5;	126;	60Bet Oph	;	2.77;	4250;occ;	65;	0;	25556
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17;	5564.7;	19-JAN-2007	11:42:20;	Dark	;	41.0;	75;	26Eps Sco	;	2.29;	4250;occ;	82;	0;	25556
18;	5792.5;	19-JAN-2007	11:46:08;	Dark	;	39.0;	131;	Gam Lup	;	2.80;	26000;occ;	78;	0;	25556
19;	6138.0;	19-JAN-2007	11:51:53;	Dark	;	45.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	91;	0;	25556
20;	6329.3;	19-JAN-2007	11:55:05;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25556
21;	6669.7;	19-JAN-2007	12:00:45;	Dark	;	37.0;	29;	Bet Car	;	1.67;	10200;occ;	74;	0;	25556
22;	6791.9;	19-JAN-2007	12:02:47;	Dark	;	40.0;	71;	Iot Car	;	2.25;	7700;occ;	80;	0;	25556
23;	6902.6;	19-JAN-2007	12:04:38;	Dark	;	42.0;	46;	Del Vel	;	1.95;	10600;occ;	84;	0;	25556
24;	7068.9;	19-JAN-2007	12:07:24;	Dark	;	43.5;	2;	Alp Car	;	-0.74;	7000;occ;	87;	0;	25556
25;	7190.7;	19-JAN-2007	12:09:26;	Dark	;	42.0;	70;	Zet Pup	;	2.25;	39000;occ;	84;	0;	25556
26;	7286.2;	19-JAN-2007	12:11:01;	Dark	;	44.5;	117;	Pi Pup	;	2.71;	3800;occ;	89;	0;	25556
27;	7436.8;	19-JAN-2007	12:13:32;	Dark	;	40.5;	23;	21Eps CMa	;	1.50;	26000;occ;	81;	0;	25556
28;	7521.0;	19-JAN-2007	12:14:56;	Dark	;	39.5;	179;	240mi2CMa	;	3.03;	24000;occ;	79;	0;	25556
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4;	1916.5;	19-JAN-2007	12:22:08;	Dark	;	41.5;	30;	46Eps Ori	;	1.69;	30000;occ;	83;	0;	25557



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5; 2553.9; 27-JAN-2007 08:19:48; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;25669
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17; 6112.5; 29-JAN-2007 08:15:53; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;25697  
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23; 6952.2; 29-JAN-2007 08:29:53; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;25697  
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 23; 7106.0; 29-JAN-2007 10:13:03; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;25698  
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20; 5703.8; 31-JAN-2007 18:50:03; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;25732
21; 5816.9; 31-JAN-2007 18:51:56; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;25732
22; 5910.5; 31-JAN-2007 18:53:29; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;25732
23; 6143.1; 31-JAN-2007 18:57:22; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;25732
24; 6227.5; 31-JAN-2007 18:58:46; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;25732
25; 6378.0; 31-JAN-2007 19:01:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25732
26; 6503.1; 31-JAN-2007 19:03:22; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;25732
27; 6716.7; 31-JAN-2007 19:06:55; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;25732
28; 6857.7; 31-JAN-2007 19:09:16; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;25732
29; 6962.8; 31-JAN-2007 19:11:02; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;25732
30; 7114.6; 31-JAN-2007 19:13:33; Dark ; 21.0; 34; Gam2Vel ; 1.79; 23000;occ; 42; 0;25732
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3; 1286.7; 31-JAN-2007 19:17:01; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;25733
4; 1433.1; 31-JAN-2007 19:19:28; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;25733
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8; 2198.5; 31-JAN-2007 19:32:13; Bright; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;25733
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12;	3427.8;	31-JAN-2007	19:52:43;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	25733	
13;	4099.9;	31-JAN-2007	20:03:55;	Bright;	38.5;	69;	33Gam Dra	;	2.23;	3800;occ;	77;	0;	25733	
14;	4304.1;	31-JAN-2007	20:07:19;	Bright;	36.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	72;	0;	25733	
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16;	4923.9;	31-JAN-2007	20:17:39;	Bright;	36.0;	126;	60Bet Oph	;	2.77;	4250;occ;	72;	0;	25733	
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26;	6503.5;	31-JAN-2007	20:43:58;	Dark	;	41.5;	12;	Alp1Cru	;	0.77;	30000;occ;	83;	0;	25733
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