

# GOMOS Daily Report 20-JAN-2007

## Level 0 and Level 1 products

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## [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	21JAN2007 05:35:38
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START) (20JAN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (21JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

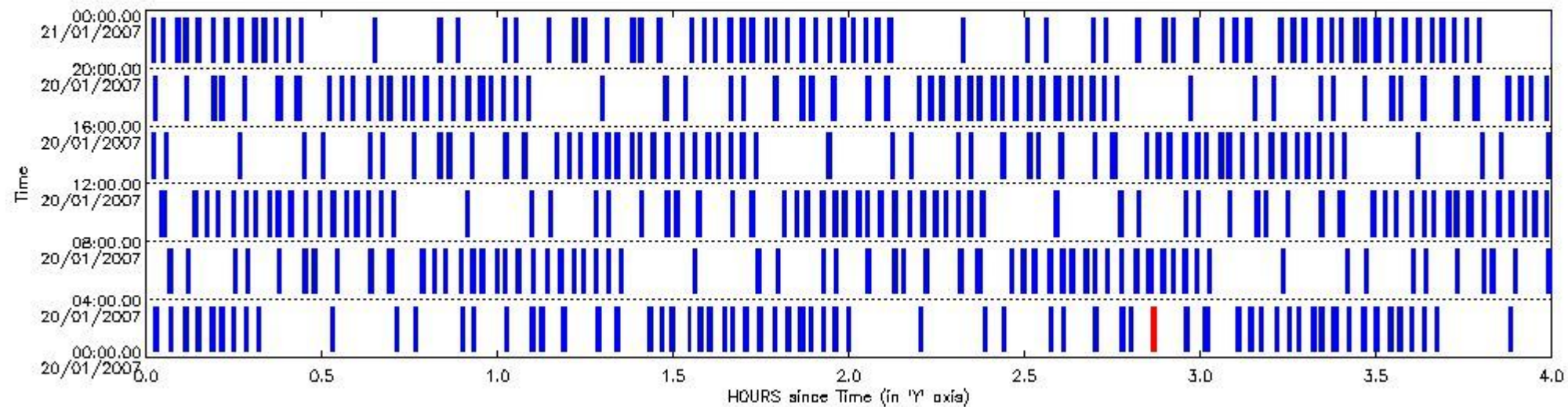
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

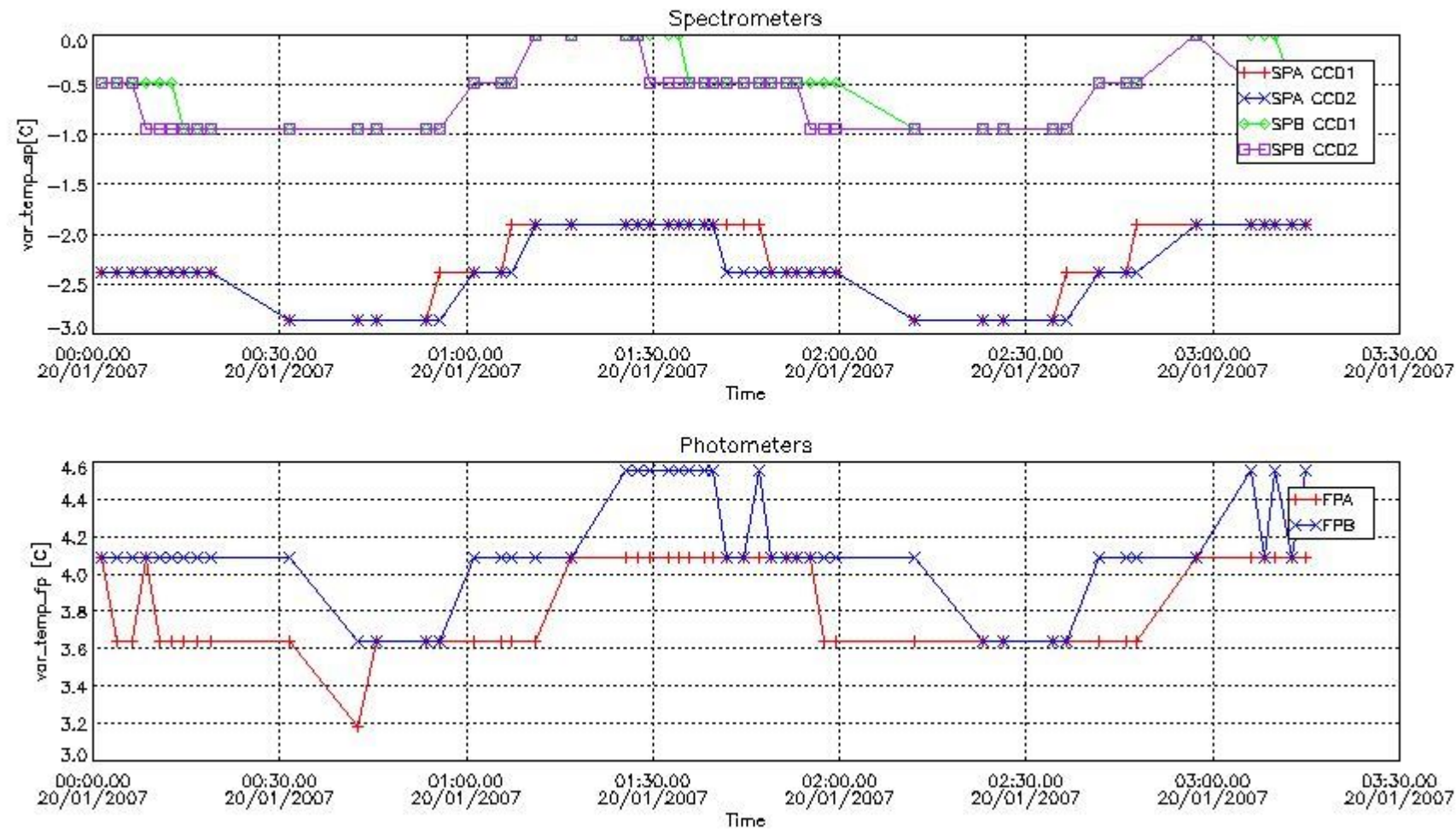
UTC start time	Star name	Star ID	Orbit
20-JAN-2007 02:51:33	GamLup	131	25565

### 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_1PNPDE20070120_000120_000000442054_00460_25564_3809.N1	20-JAN-2007 00:01:20	Straylight	43.500	1	9Alp CMa	-1.4400	11000.	87	25564	No
2	GOM_TRA_1PNPDE20070120_000352_000000402054_00460_25564_3810.N1	20-JAN-2007 00:03:52	Straylight	40.000	56	53Kap Ori	2.0650	30000.	80	25564	No
3	GOM_TRA_1PNPDE20070120_000620_000000432054_00460_25564_3811.N1	20-JAN-2007 00:06:20	Twilight_stray	43.000	30	46Eps Ori	1.6940	30000.	86	25564	No
4	GOM_TRA_1PNPDE20070120_000830_000000522054_00460_25564_3812.N1	20-JAN-2007 00:08:30	Twilight_stray	52.000	14	58Alp Ori	0.87000	3000.0	104	25564	No
5	GOM_TRA_1PNPDE20070120_001049_000000502054_00460_25564_3813.N1	20-JAN-2007 00:10:49	Bright	49.500	44	24Gam Gem	1.9280	11000.	99	25564	No
6	GOM_TRA_1PNPDE20070120_001234_000000392054_00460_25564_3814.N1	20-JAN-2007 00:12:34	Bright	39.000	151	13Mu Gem	2.8900	3000.0	78	25564	No
7	GOM_TRA_1PNPDE20070120_001439_000000362054_00460_25564_3815.N1	20-JAN-2007 00:14:39	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	25564	No
8	GOM_TRA_1PNPDE20070120_001645_000000352054_00460_25564_3816.N1	20-JAN-2007 00:16:45	Bright	34.500	107	37The Aur	2.6490	11000.	69	25564	No
9	GOM_TRA_1PNPDE20070120_001855_000000362054_00460_25564_3817.N1	20-JAN-2007 00:18:55	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	25564	No
10	GOM_TRA_1PNPDE20070120_003128_000000362054_00460_25564_3818.N1	20-JAN-2007 00:31:28	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	25564	No

11	GOM_TRA_1PNPDE20070120_004224_000000362054_00460_25564_3819.N1	20-JAN-2007 00:42:24	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	25564	No
12	GOM_TRA_1PNPDE20070120_004539_000000342054_00460_25564_3820.N1	20-JAN-2007 00:45:39	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	25564	No
13	GOM_TRA_1PNPDE20070120_005337_000000332054_00460_25564_3821.N1	20-JAN-2007 00:53:37	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	25564	No
14	GOM_TRA_1PNPDE20070120_005543_000000332054_00460_25564_3822.N1	20-JAN-2007 00:55:43	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	25564	No
15	GOM_TRA_1PNPDE20070120_010107_000000382054_00460_25564_3823.N1	20-JAN-2007 01:01:07	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	25564	No
16	GOM_TRA_1PNPDE20070120_010535_000000492054_00460_25564_3927.N1	20-JAN-2007 01:05:35	Twilight	49.000	16	21Alp Sco	1.0200	3000.0	98	25564	No
17	GOM_TRA_1PNPDE20070120_010710_000000452054_00460_25564_3928.N1	20-JAN-2007 01:07:10	Twilight	44.500	75	26Eps Sco	2.2910	4250.0	89	25564	No
18	GOM_TRA_1PNPDE20070120_011100_000000402054_00460_25564_3929.N1	20-JAN-2007 01:11:00	Dark	40.000	131	Gam Lup	2.8000	26000.	80	25564	No
19	GOM_TRA_1PNPDE20070120_011644_000000502054_00461_25565_3930.N1	20-JAN-2007 01:16:44	Dark	49.500	4	Alp1Cen	-0.010000	5800.0	99	25565	No
20	GOM_TRA_1PNPDE20070120_012535_000000472054_00461_25565_3931.N1	20-JAN-2007 01:25:35	Dark	46.500	29	Bet Car	1.6720	10200.	93	25565	No
21	GOM_TRA_1PNPDE20070120_012738_000000392054_00461_25565_3932.N1	20-JAN-2007 01:27:38	Dark	39.000	71	lot Car	2.2460	7700.0	78	25565	No
22	GOM_TRA_1PNPDE20070120_012928_000000412054_00461_25565_3933.N1	20-JAN-2007 01:29:28	Dark	40.500	46	Del Vel	1.9540	10600.	81	25565	No
23	GOM_TRA_1PNPDE20070120_013231_000000272054_00461_25565_3934.N1	20-JAN-2007 01:32:31	Dark	27.000	2	Alp Car	-0.73600	7000.0	54	25565	Yes
24	GOM_TRA_1PNPDE20070120_013416_000000412054_00461_25565_3935.N1	20-JAN-2007 01:34:16	Dark	41.000	70	Zet Pup	2.2460	39000.	82	25565	No
25	GOM_TRA_1PNPDE20070120_013550_000000432054_00461_25565_3936.N1	20-JAN-2007 01:35:50	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	25565	No
26	GOM_TRA_1PNPDE20070120_013821_000000432054_00461_25565_3937.N1	20-JAN-2007 01:38:21	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	25565	No
27	GOM_TRA_1PNPDE20070120_013945_000000402054_00461_25565_3938.N1	20-JAN-2007 01:39:45	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	25565	No
28	GOM_TRA_1PNPDE20070120_014156_000000442054_00461_25565_3939.N1	20-JAN-2007 01:41:56	Straylight	43.500	1	9Alp CMa	-1.4400	11000.	87	25565	No
29	GOM_TRA_1PNPDE20070120_014428_000000402054_00461_25565_3940.N1	20-JAN-2007 01:44:28	Straylight	40.000	56	53Kap Ori	2.0650	30000.	80	25565	No
30	GOM_TRA_1PNPDE20070120_014656_000000432054_00461_25565_3941.N1	20-JAN-2007 01:46:56	Twi_and_stray	43.000	30	46Eps Ori	1.6940	30000.	86	25565	No
31	GOM_TRA_1PNPDE20070120_014906_000000522054_00461_25565_3942.N1	20-JAN-2007 01:49:06	Twi_and_stray	52.000	14	58Alp Ori	0.87000	3000.0	104	25565	No
32	GOM_TRA_1PNPDE20070120_015125_000000532054_00461_25565_3943.N1	20-JAN-2007 01:51:25	Bright	53.000	44	24Gam Gem	1.9280	11000.	106	25565	No
33	GOM_TRA_1PNPDE20070120_015310_000000402054_00461_25565_3944.N1	20-JAN-2007 01:53:10	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	25565	No
34	GOM_TRA_1PNPDE20070120_015515_000000362054_00461_25565_3945.N1	20-JAN-2007 01:55:15	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	25565	No
35	GOM_TRA_1PNPDE20070120_015721_000000362054_00461_25565_3946.N1	20-JAN-2007 01:57:21	Bright	35.500	107	37The Aur	2.6490	11000.	71	25565	No
36	GOM_TRA_1PNPDE20070120_015931_000000372054_00461_25565_3947.N1	20-JAN-2007 01:59:31	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	25565	No
37	GOM_TRA_1PNPDE20070120_021204_000000322054_00461_25565_3948.N1	20-JAN-2007 02:12:04	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	25565	No
38	GOM_TRA_1PNPDE20070120_022300_000000362054_00461_25565_4111.N1	20-JAN-2007 02:23:00	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	25565	No
39	GOM_TRA_1PNPDE20070120_022615_000000352054_00461_25565_4112.N1	20-JAN-2007 02:26:15	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	25565	No
40	GOM_TRA_1PNPDE20070120_023413_000000332054_00461_25565_4113.N1	20-JAN-2007 02:34:13	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	25565	No
41	GOM_TRA_1PNPDE20070120_023620_000000332054_00461_25565_4114.N1	20-JAN-2007 02:36:20	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	25565	No
42	GOM_TRA_1PNPDE20070120_024143_000000482054_00461_25565_4115.N1	20-JAN-2007 02:41:43	Bright	47.500	98	13Zet Oph	2.5710	30000.	95	25565	No
43	GOM_TRA_1PNPDE20070120_024612_000000532054_00461_25565_4116.N1	20-JAN-2007 02:46:12	Twilight	52.500	16	21Alp Sco	1.0200	3000.0	105	25565	No
44	GOM_TRA_1PNPDE20070120_024746_000000432054_00461_25565_4117.N1	20-JAN-2007 02:47:46	Twilight	42.500	75	26Eps Sco	2.2910	4250.0	85	25565	No
45	GOM_TRA_1PNPDE20070120_025721_000000422054_00462_25566_4118.N1	20-JAN-2007 02:57:21	Dark	42.000	4	Alp1Cen	-0.010000	5800.0	84	25566	No
46	GOM_TRA_1PNPDE20070120_030611_000000382054_00462_25566_4119.N1	20-JAN-2007 03:06:11	Dark	37.500	29	Bet Car	1.6720	10200.	75	25566	No
47	GOM_TRA_1PNPDE20070120_030814_000000402054_00462_25566_4120.N1	20-JAN-2007 03:08:14	Dark	40.000	71	lot Car	2.2460	7700.0	80	25566	No
48	GOM_TRA_1PNPDE20070120_031005_000000392054_00462_25566_4121.N1	20-JAN-2007 03:10:05	Dark	39.000	46	Del Vel	1.9540	10600.	78	25566	No
49	GOM_TRA_1PNPDE20070120_031244_000000392054_00462_25566_4122.N1	20-JAN-2007 03:12:44	Dark	38.500	34	Gam2Vel	1.7930	23000.	77	25566	No
50	GOM_TRA_1PNPDE20070120_031452_000000412054_00462_25566_4123.N1	20-JAN-2007 03:14:52	Dark	41.000	70	Zet Pup	2.2460	39000.	82	25566	No

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



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

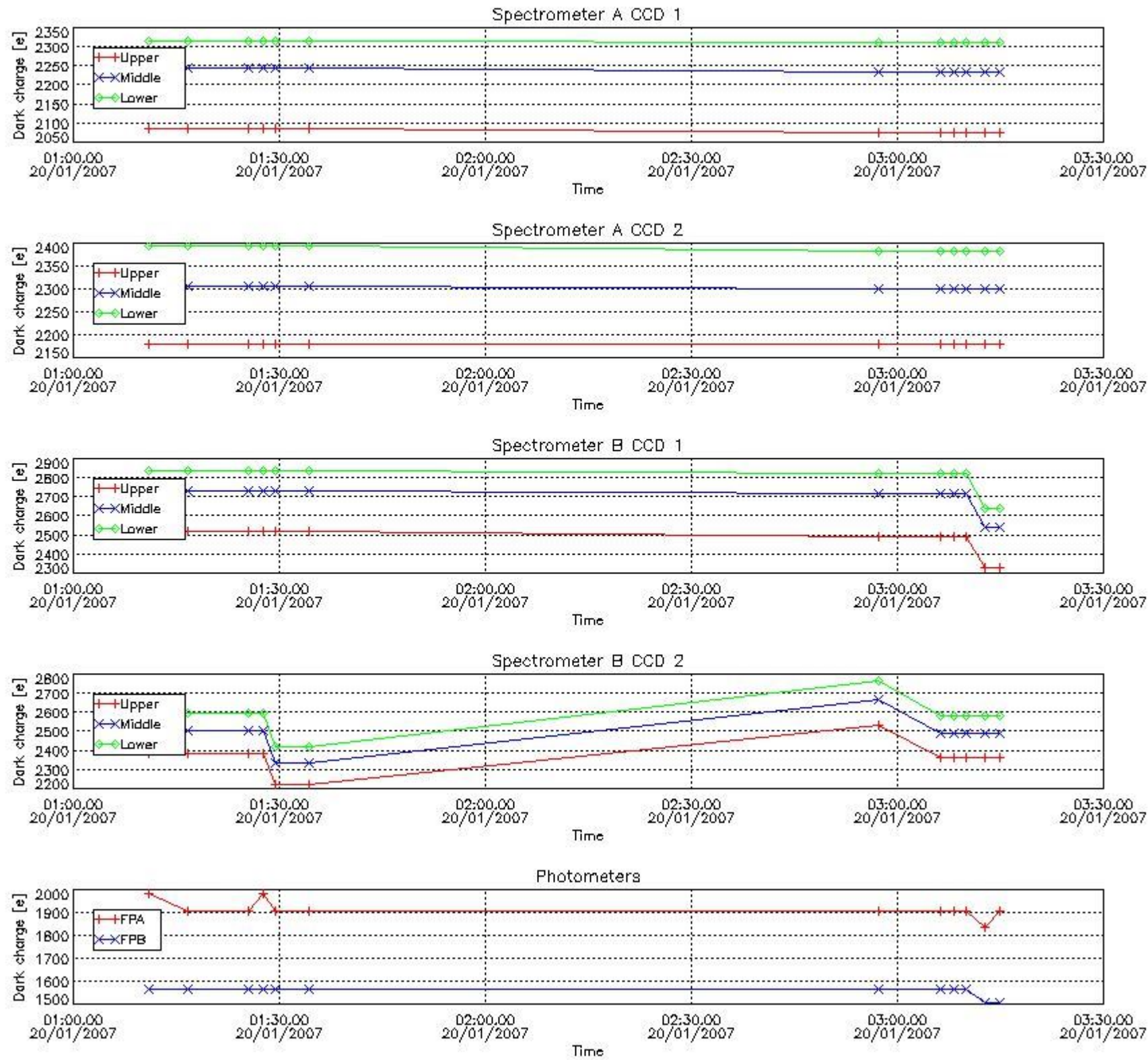
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





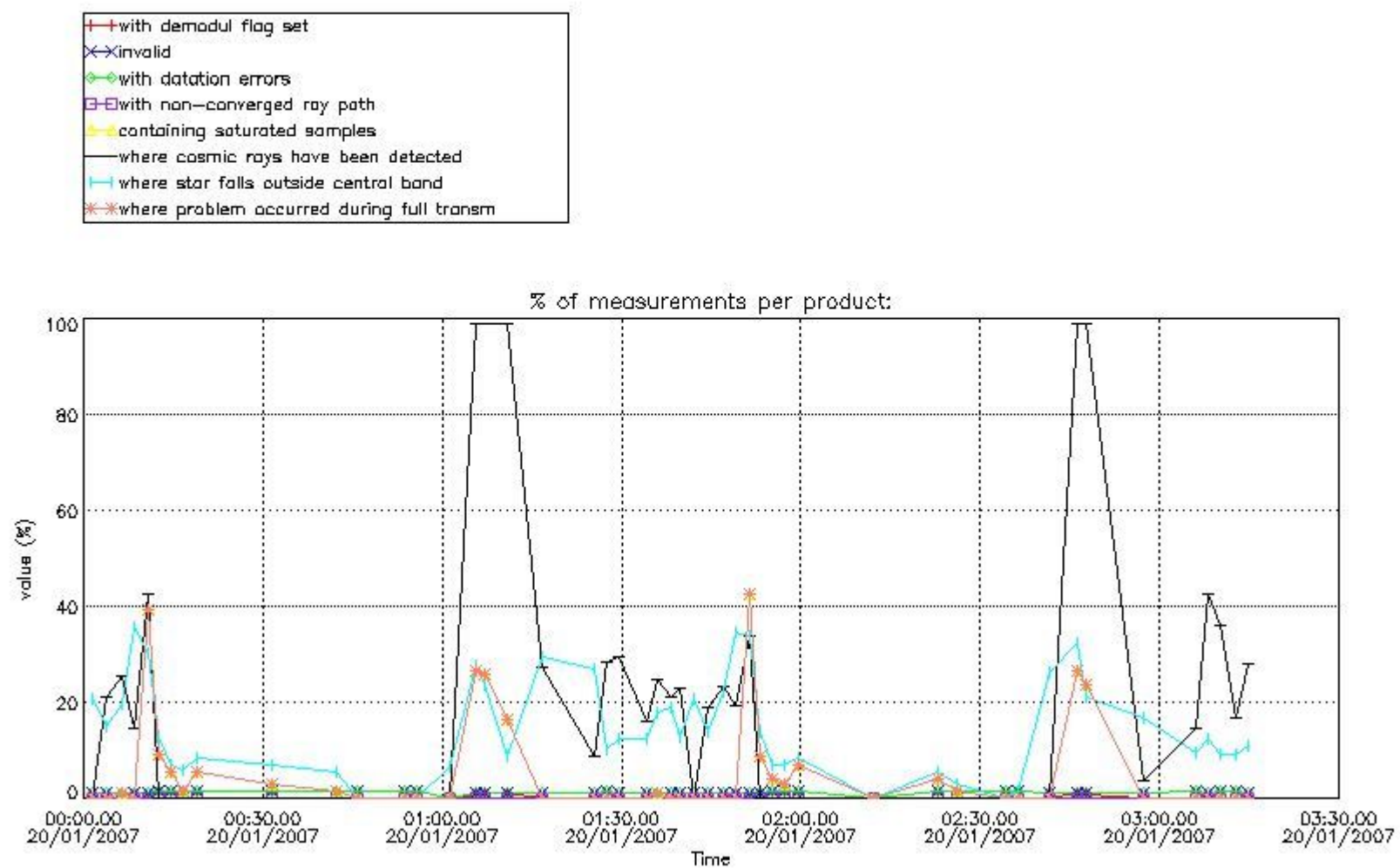
## 5. Demodulation flag and quality information monitoring

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.

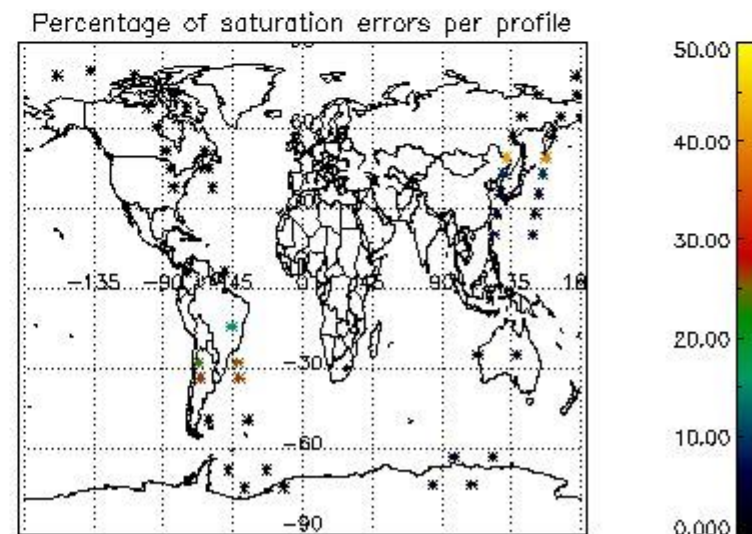
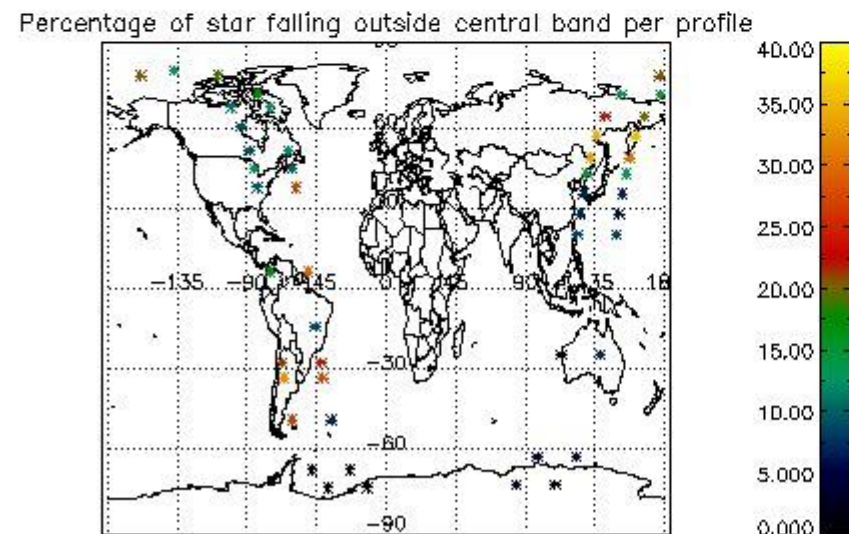
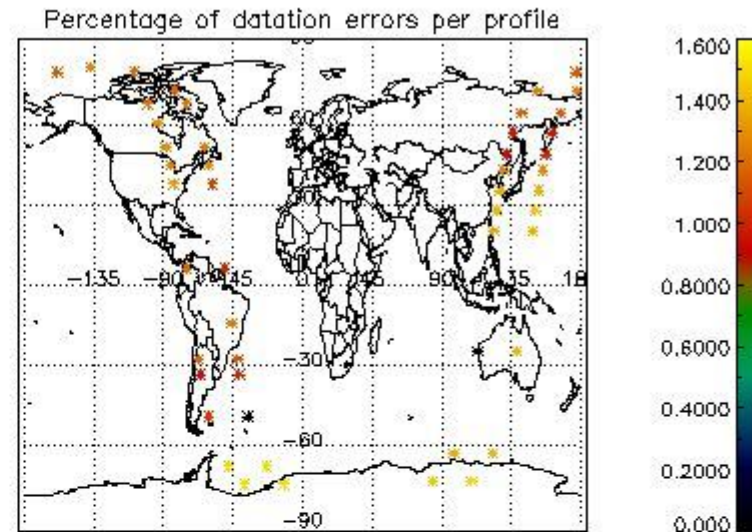
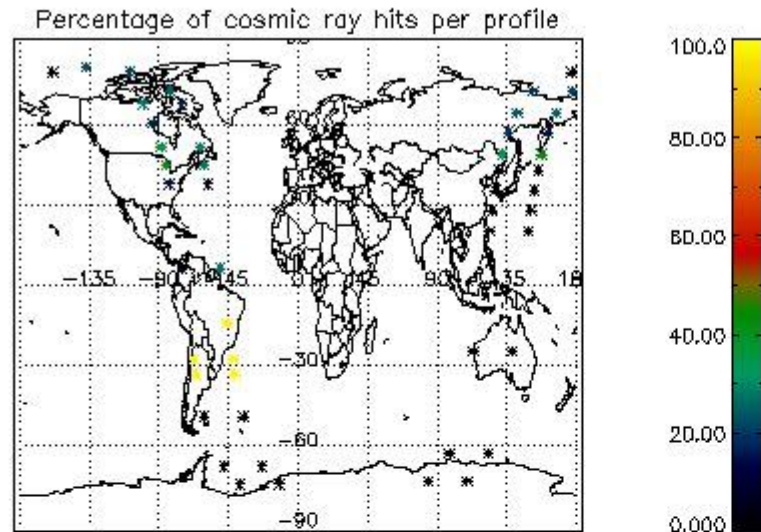
### 5.1 Percentage of products during reporting period with:

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)

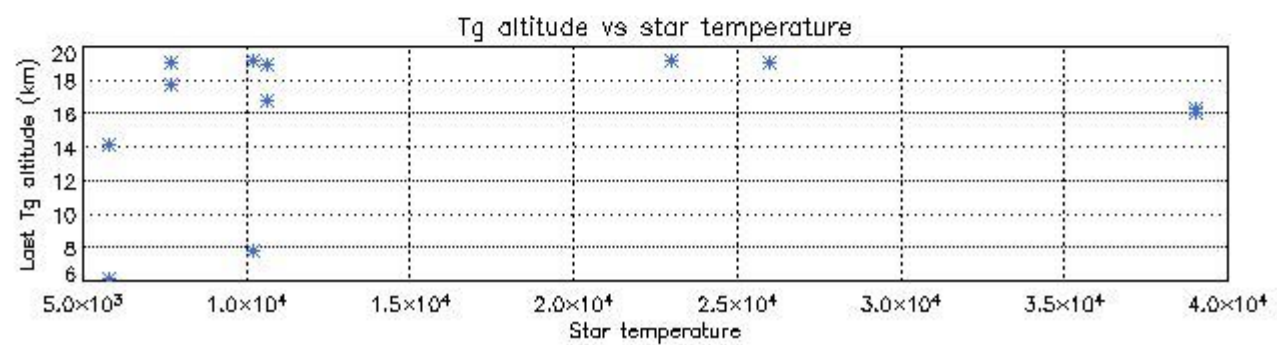
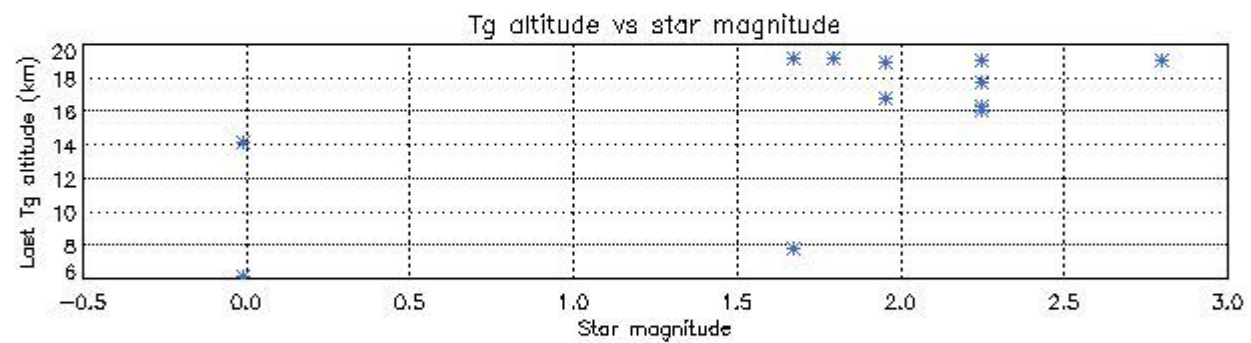
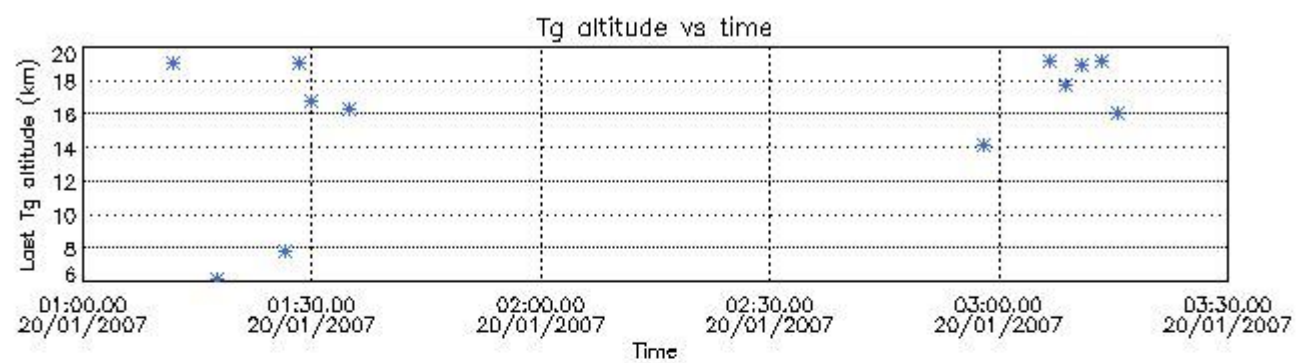
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.855	19.888	8.6510
St. deviation:	4.4440	6.4891	2.9699
Maximum:	19.197	31.566	11.910
Minimum:	6.1624	4.6976	4.9133
Number of data:	12.000	22.000	4.0000

### 6.2 Plot for DARK limb products



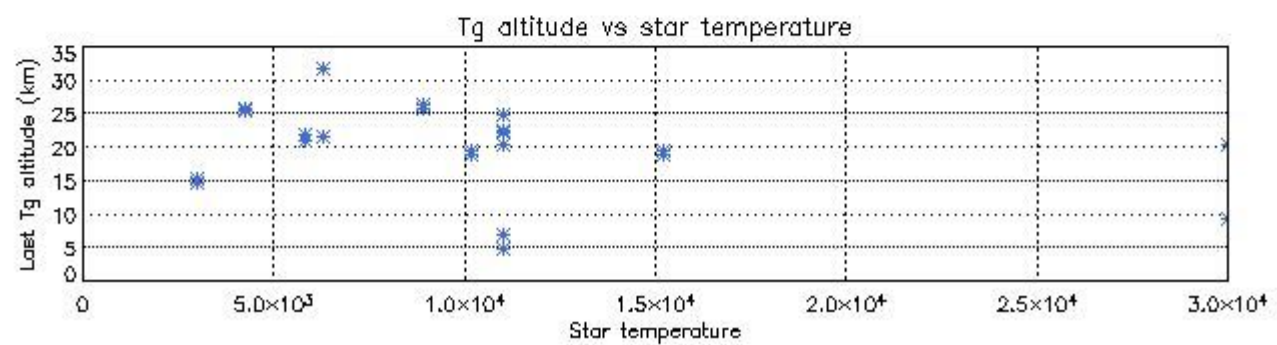
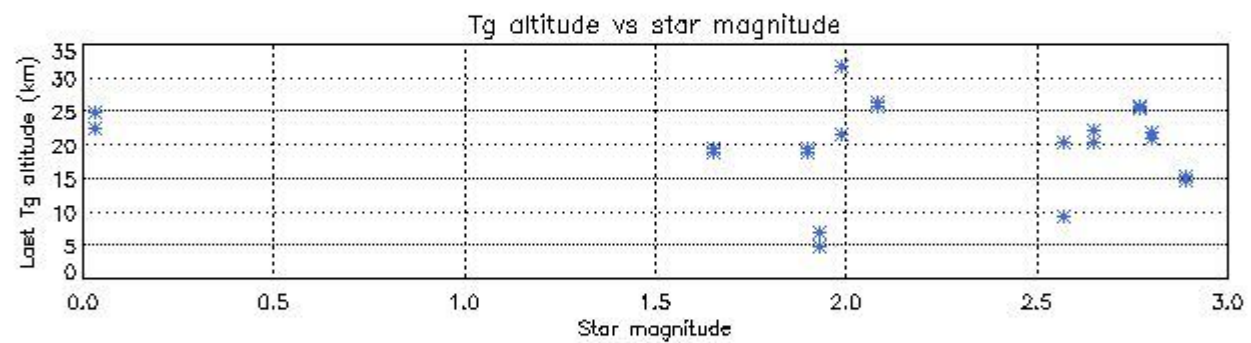
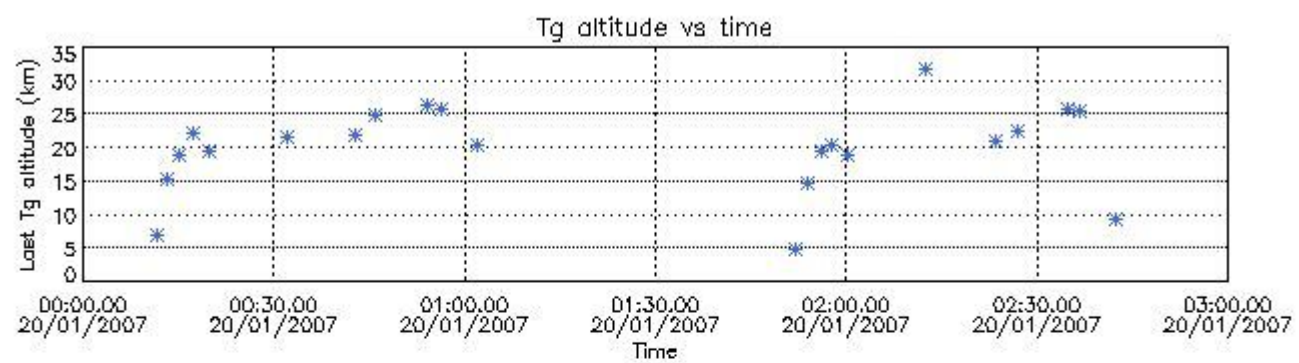
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

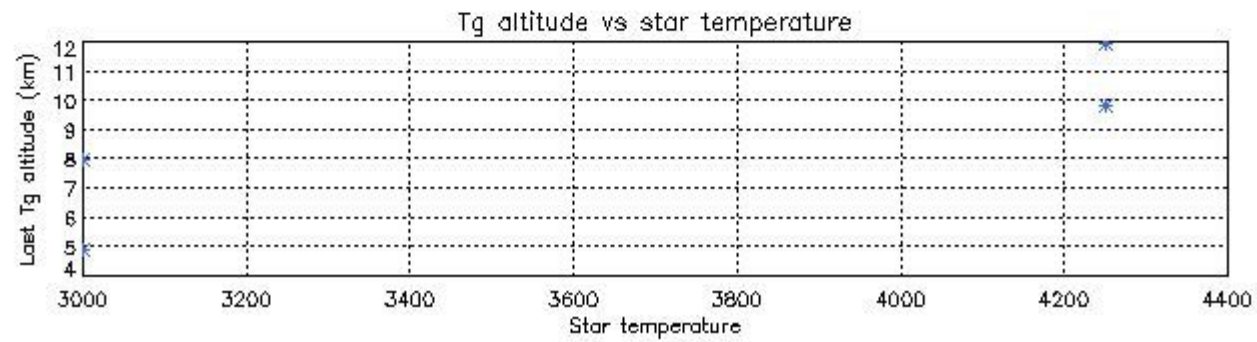
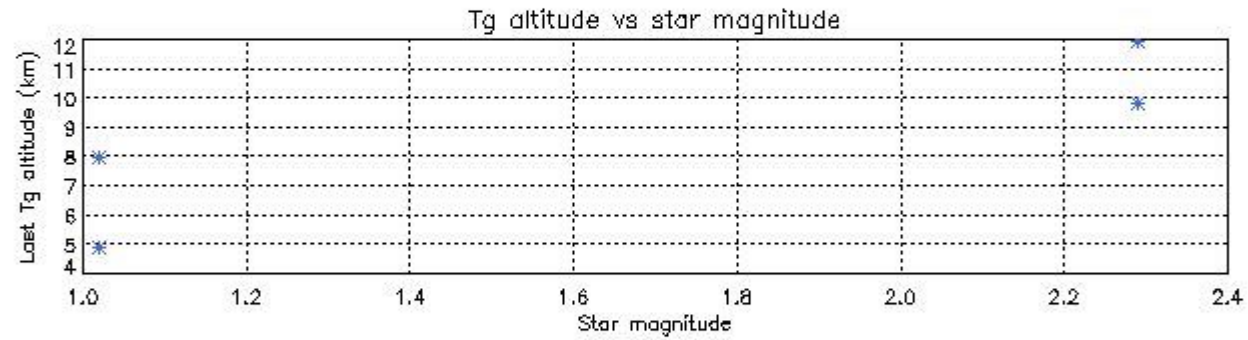
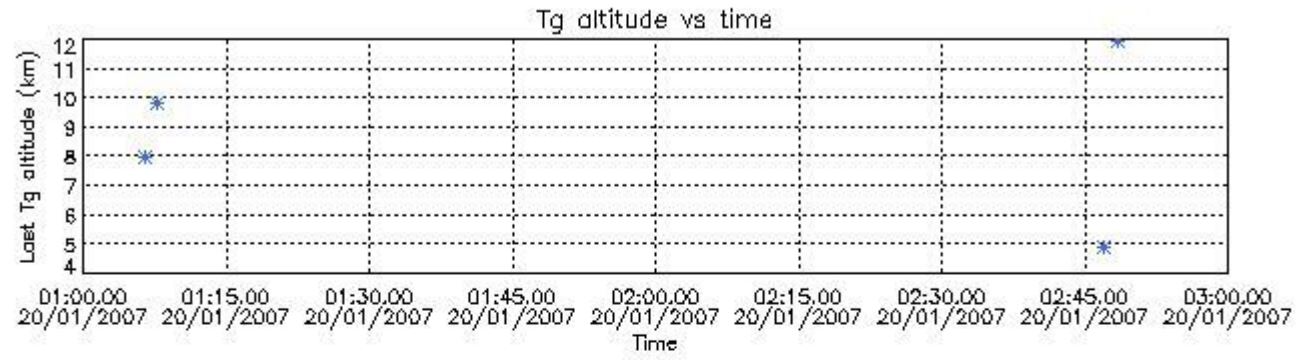


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

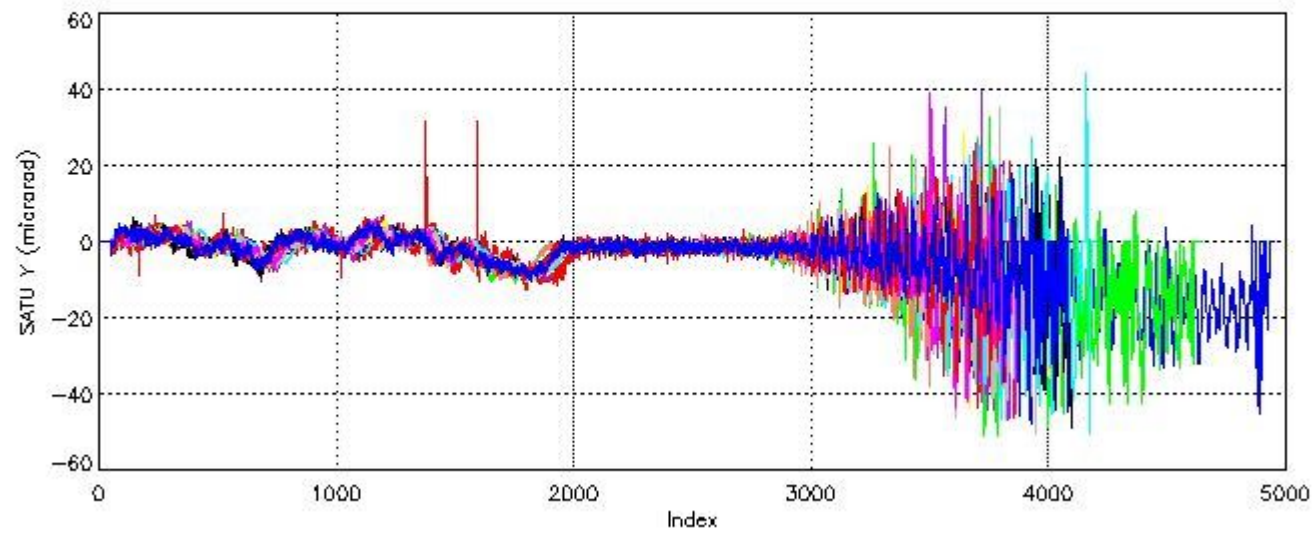
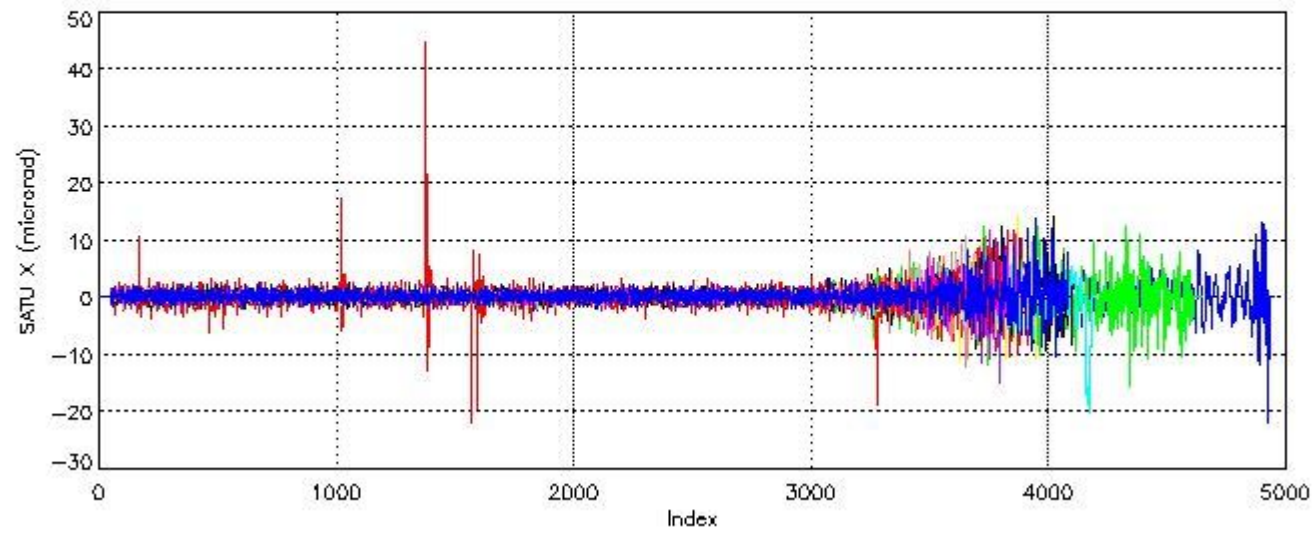


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.15553	-0.35544	0.047925	-0.48274
St. deviation:	0.54047	2.3067	0.66613	2.3797
Maximum:	10.800	7.3000	5.5000	6.5000
Minimum:	-6.1000	-10.400	-4.1000	-10.700



Number of data:	10750.	10750.	17850.	17850.
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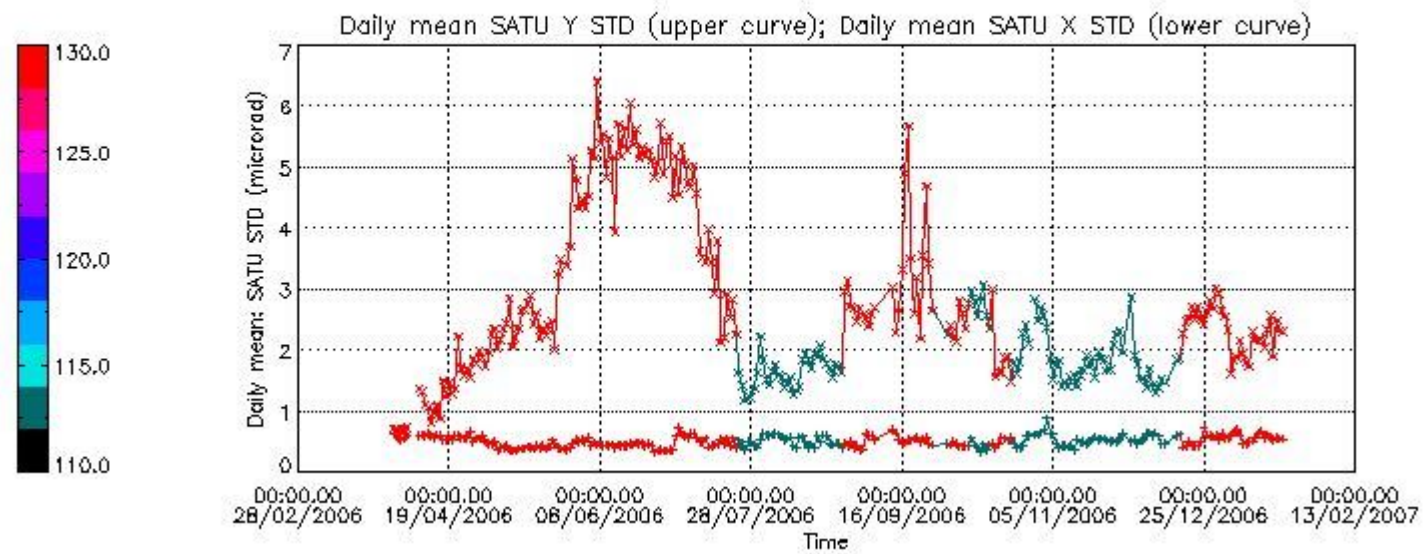
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

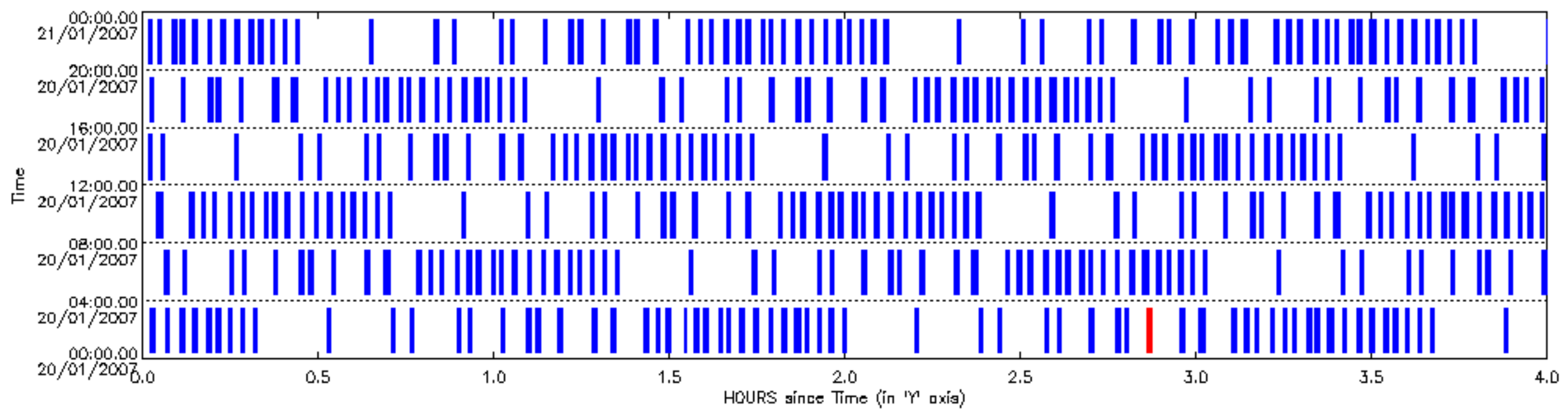
Lower curve: STD of SATU X axis

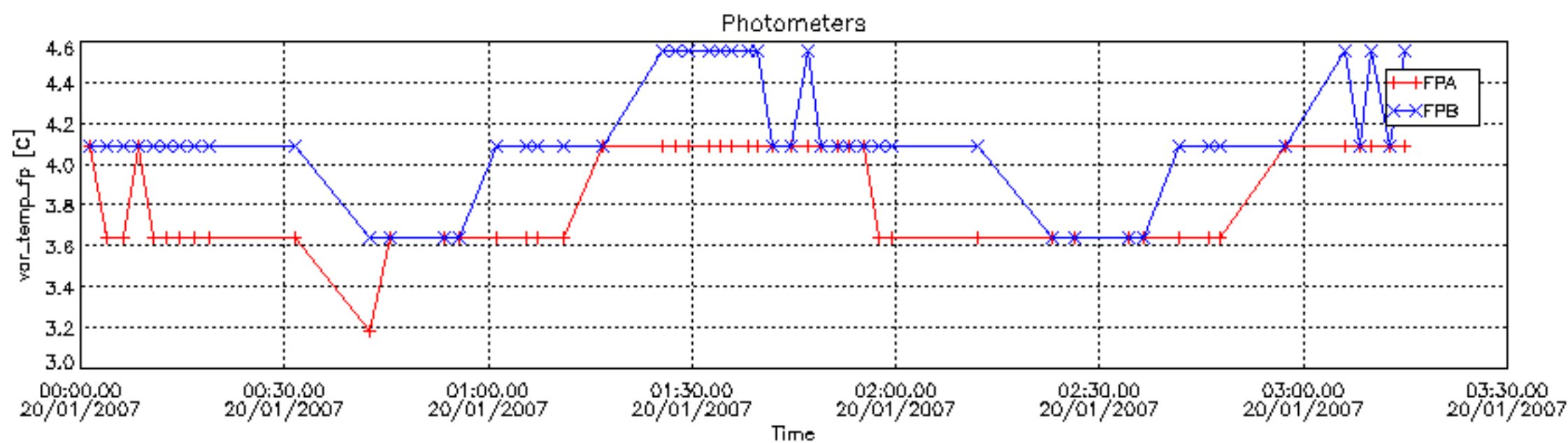
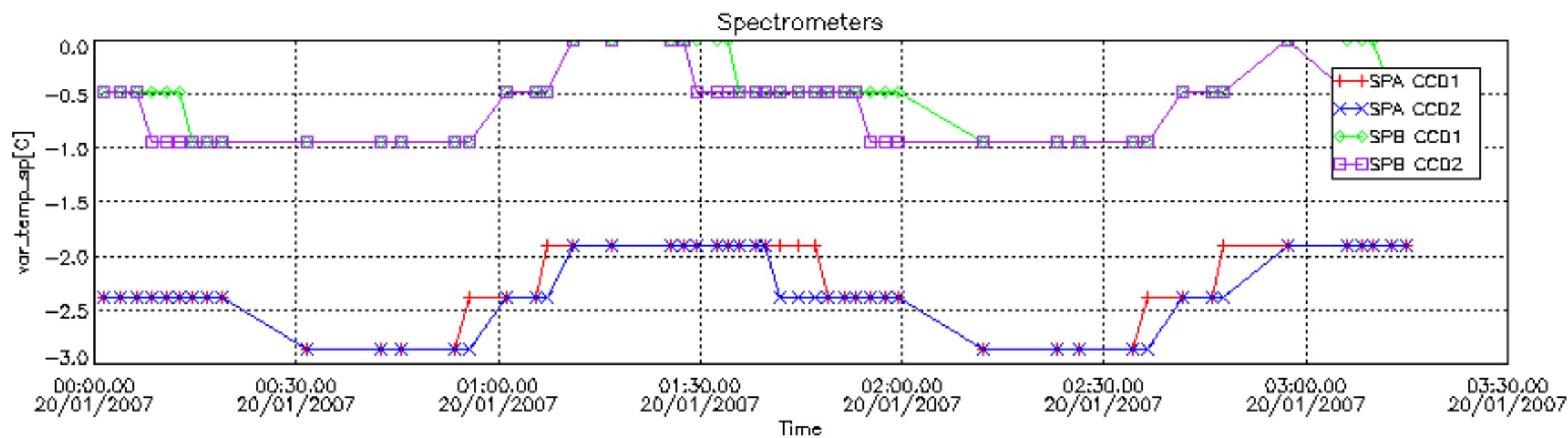


### 8. Auxiliary Data Files used for the production reported in section 2.4

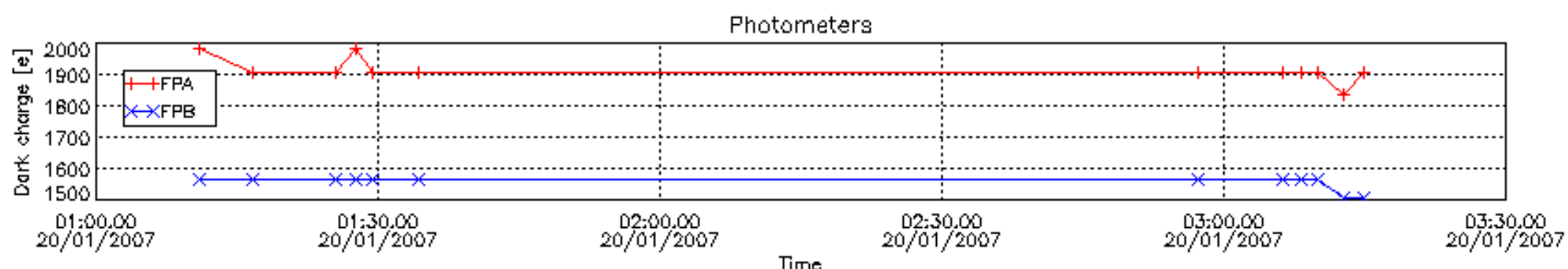
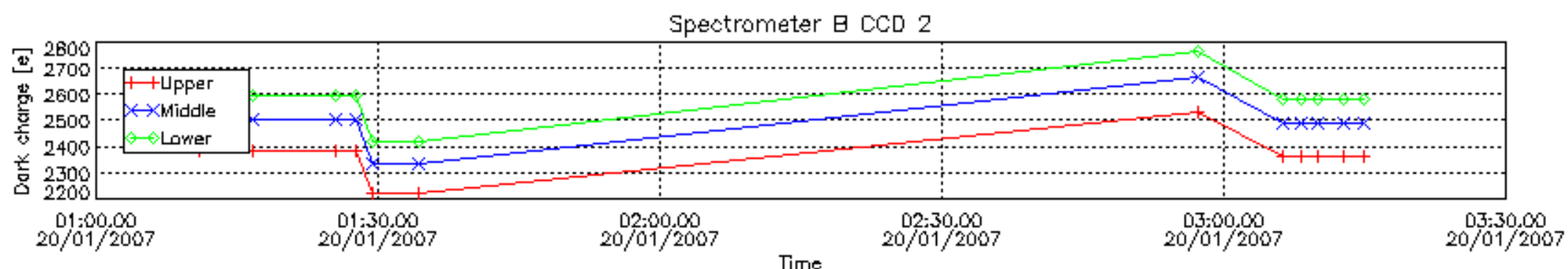
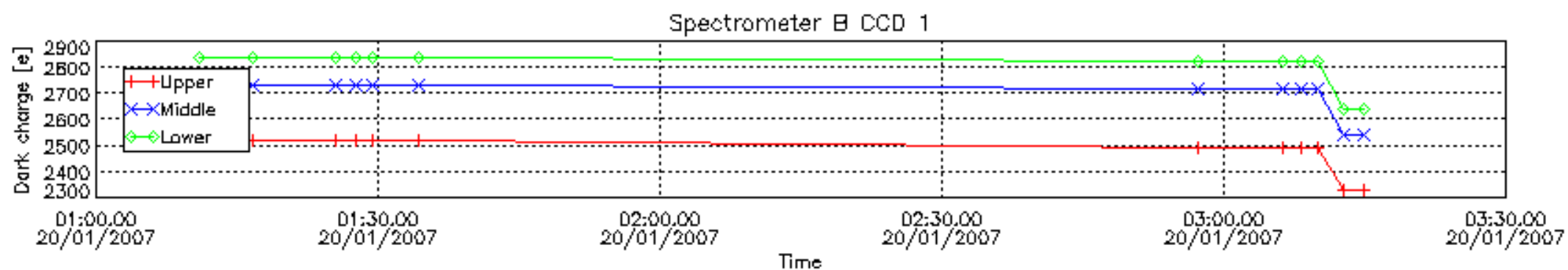
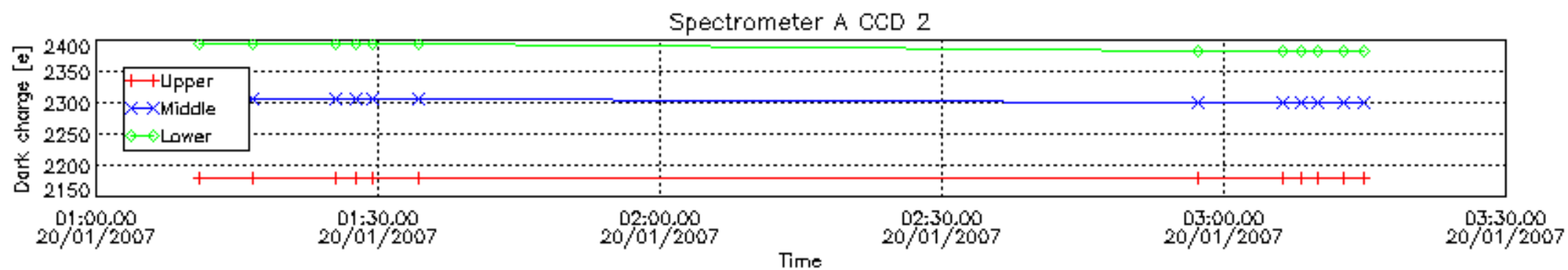
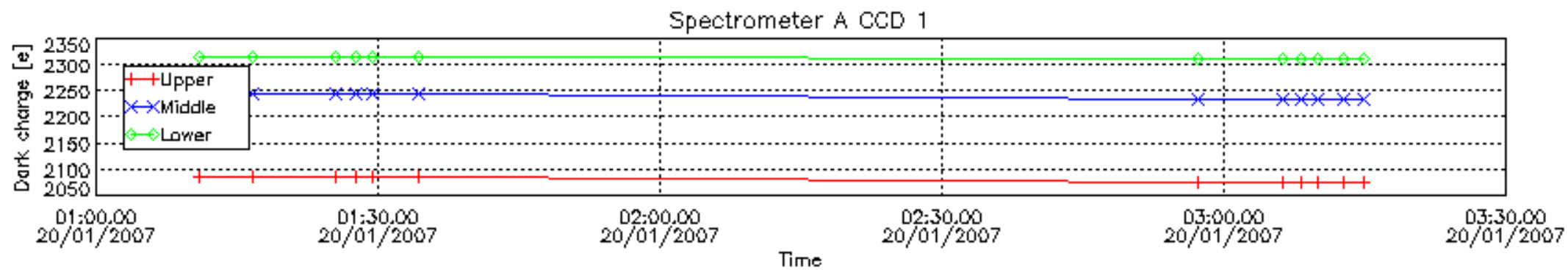
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

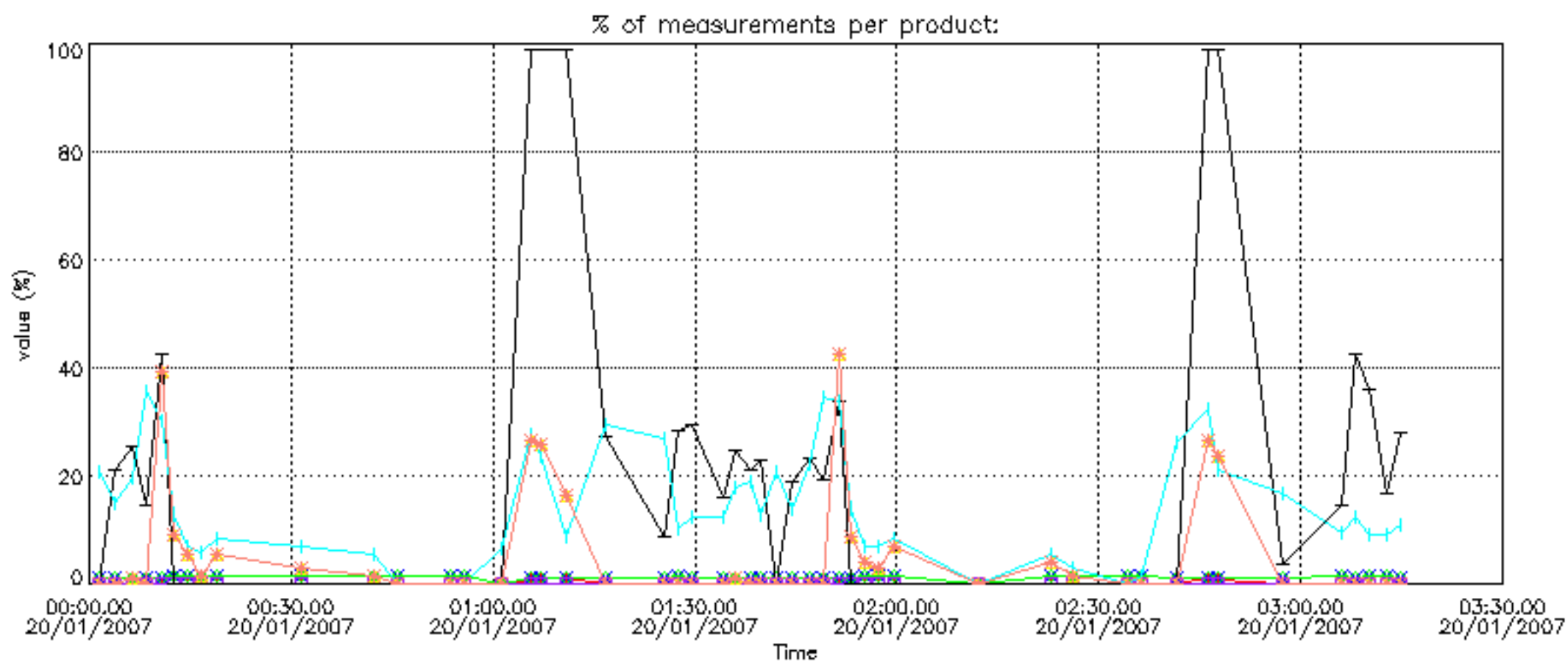
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	20-JAN-2007 00:01:20
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070117_105731_20070116_000000_20100101_000000	1	20-JAN-2007 00:01:20
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-JAN-2007 00:01:20
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-JAN-2007 00:01:20
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	20-JAN-2007 00:01:20
ECMWF_FILE	AUX_ECF_AXNECM20070119_064613_20070119_210000_20070120_090000	1	20-JAN-2007 00:01:20
OPTIONAL_ECMWF_FILE	MISSING	1	20-JAN-2007 00:01:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070119_213934_000057382054_00458_25562_2614.N1	1	20-JAN-2007 00:01:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070119_232031_000057382054_00459_25563_2615.N1	16	20-JAN-2007 01:05:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070120_010128_000038252054_00460_25564_2616.N1	38	20-JAN-2007 02:23:00



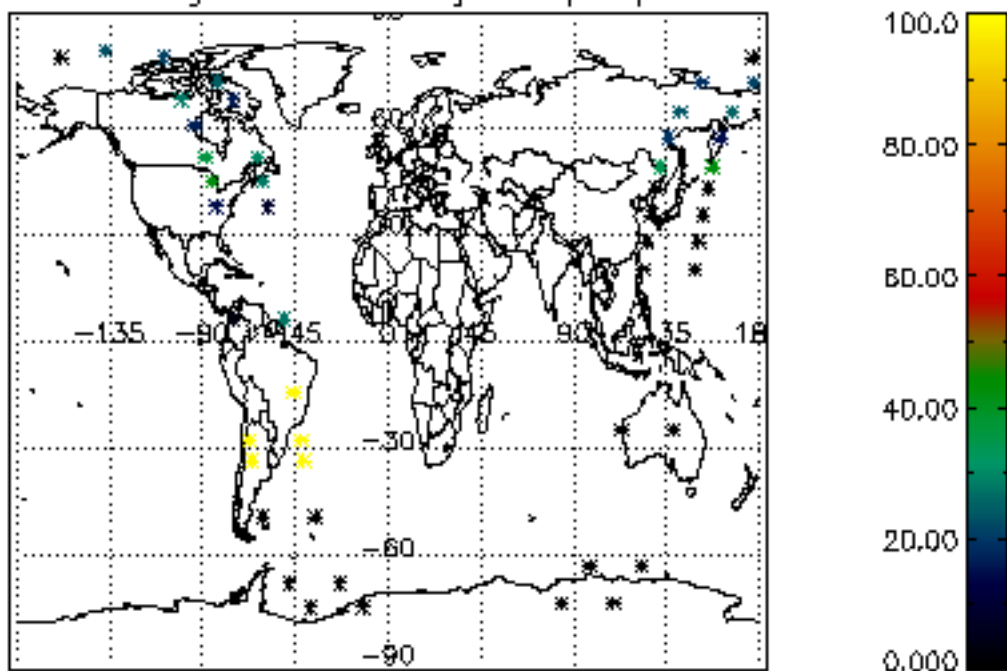




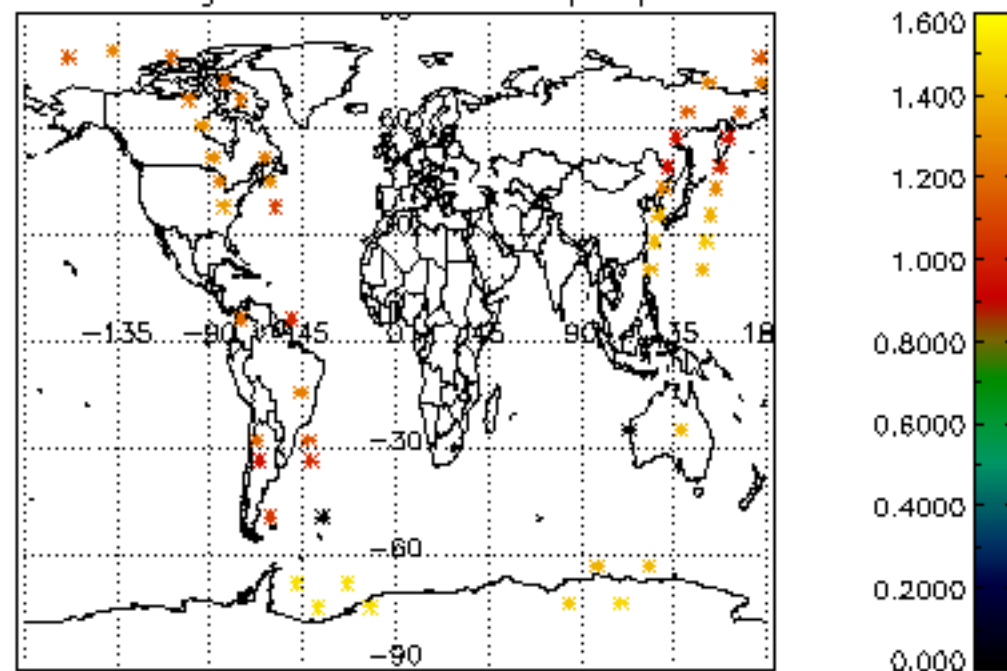




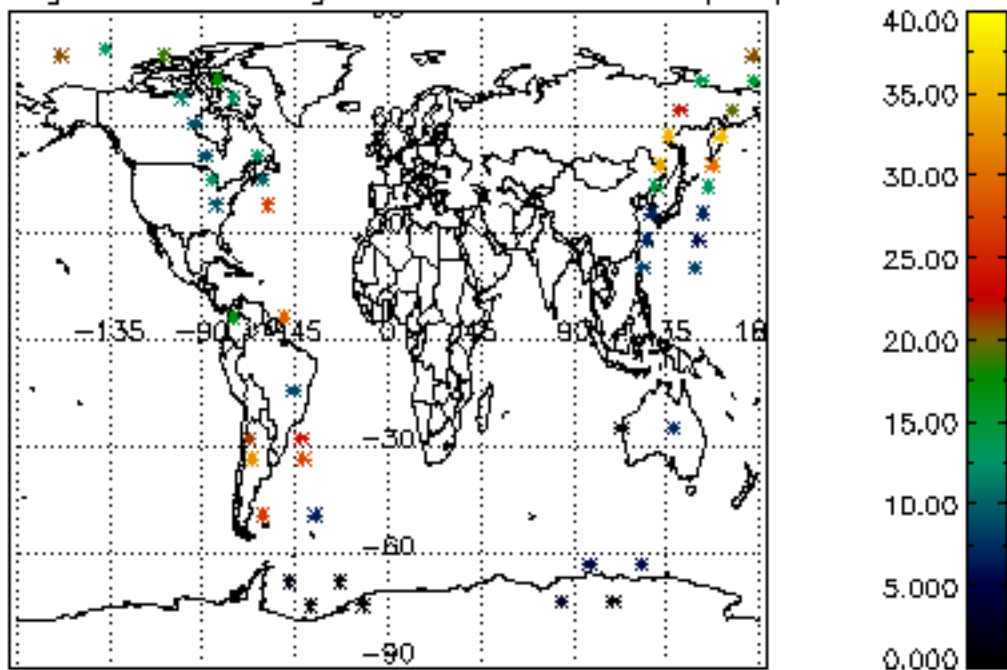
Percentage of cosmic ray hits per profile



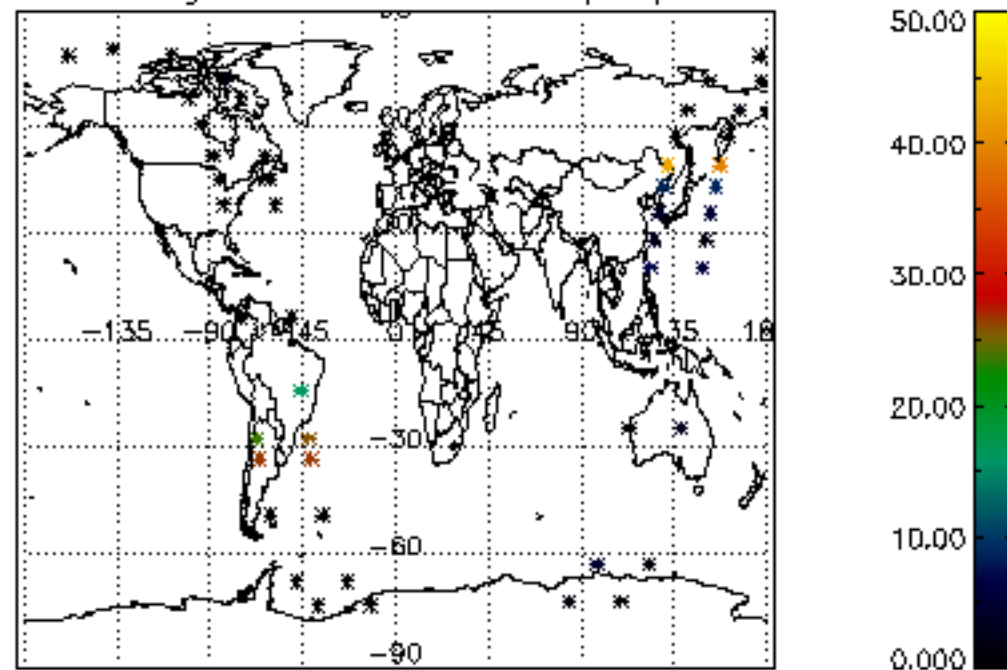
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

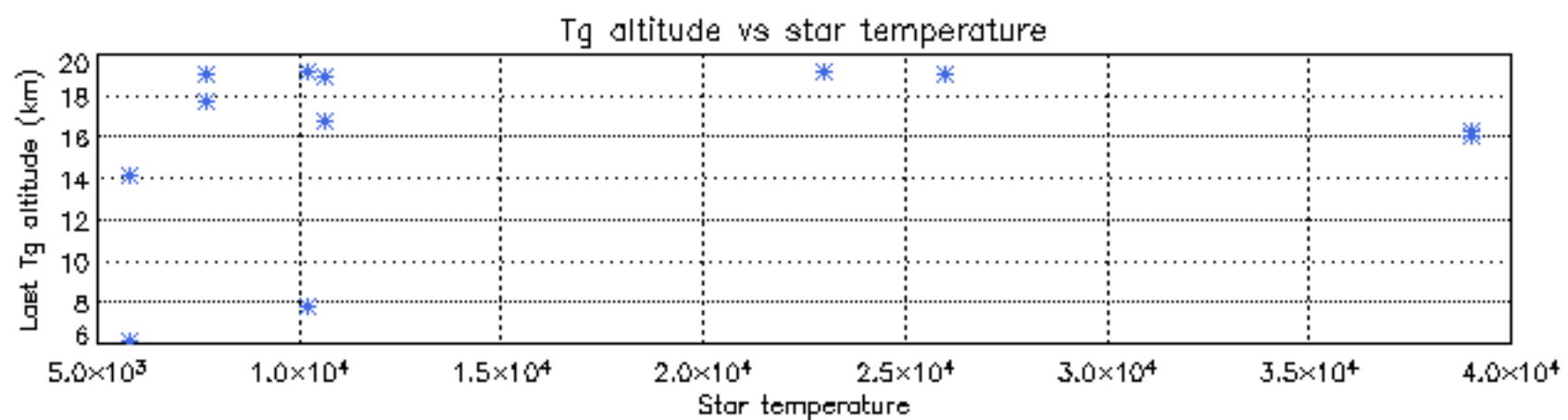
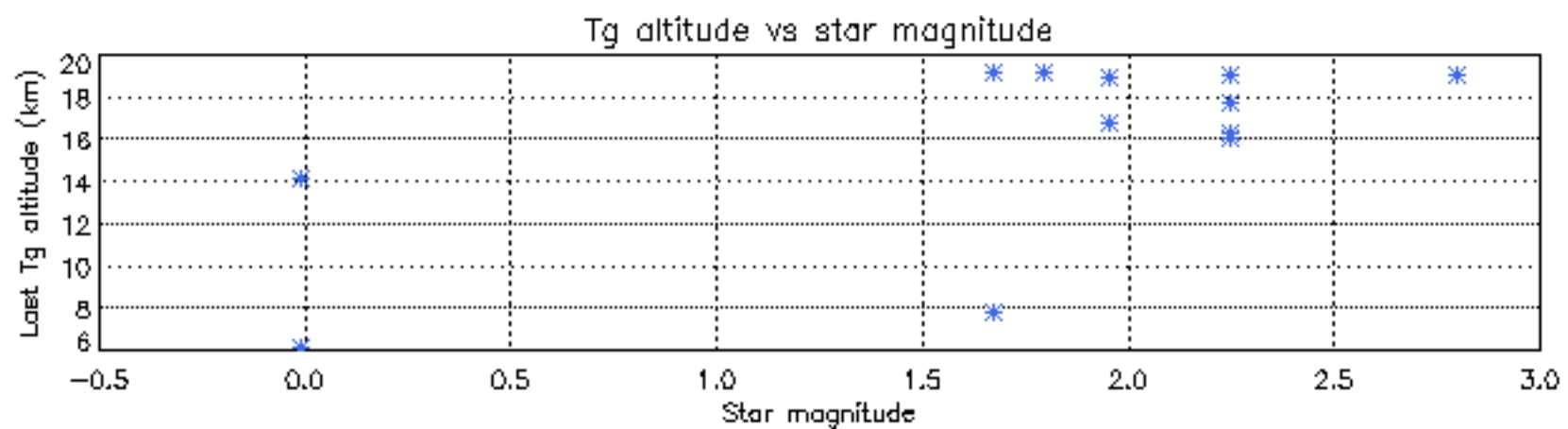
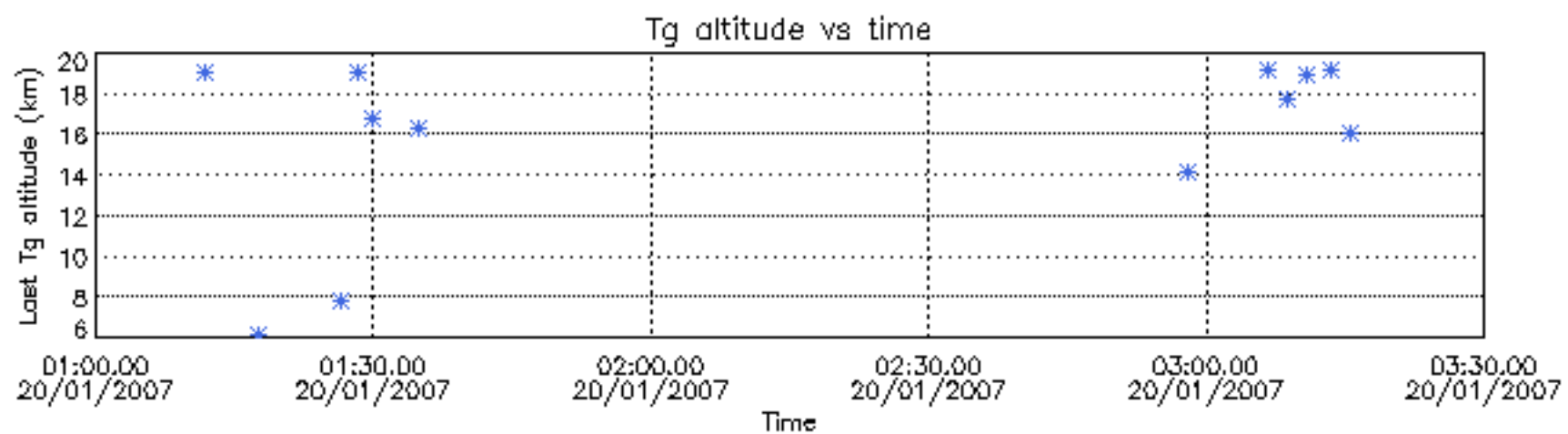


Percentage of saturation errors per profile

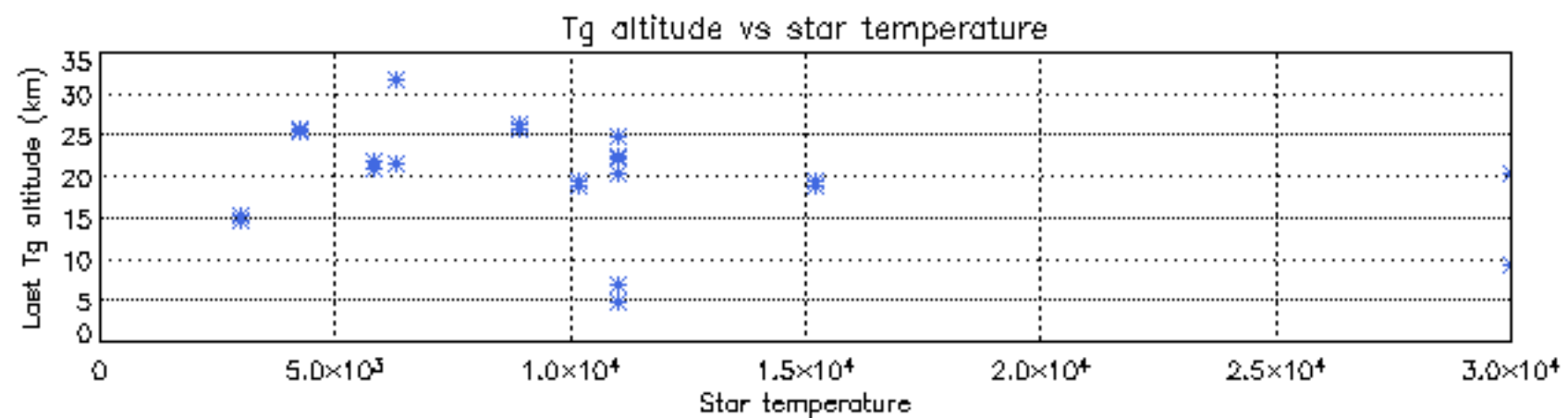
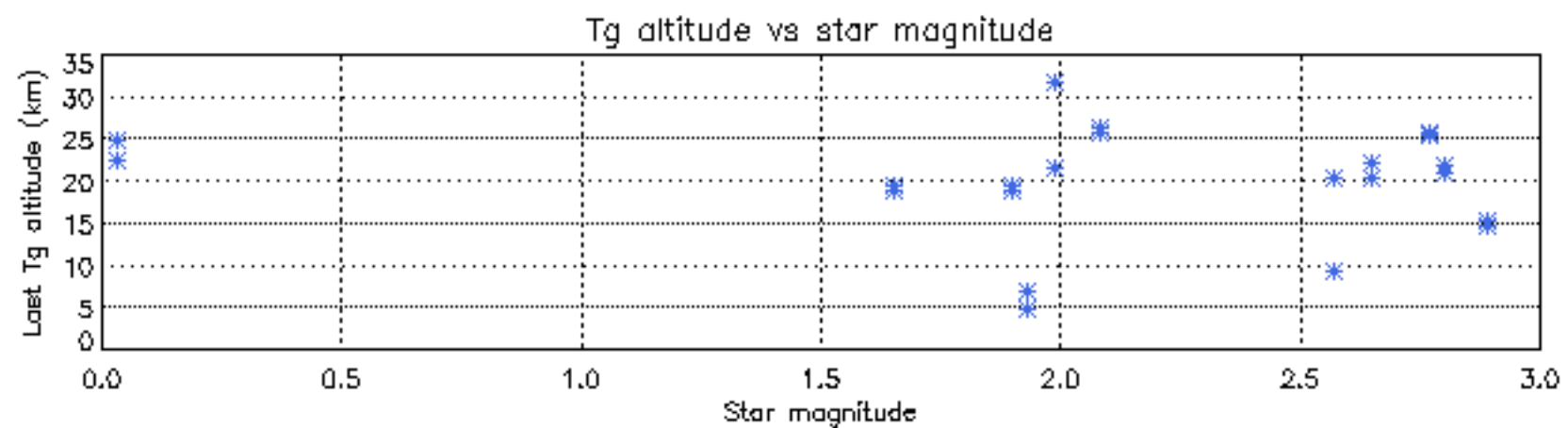
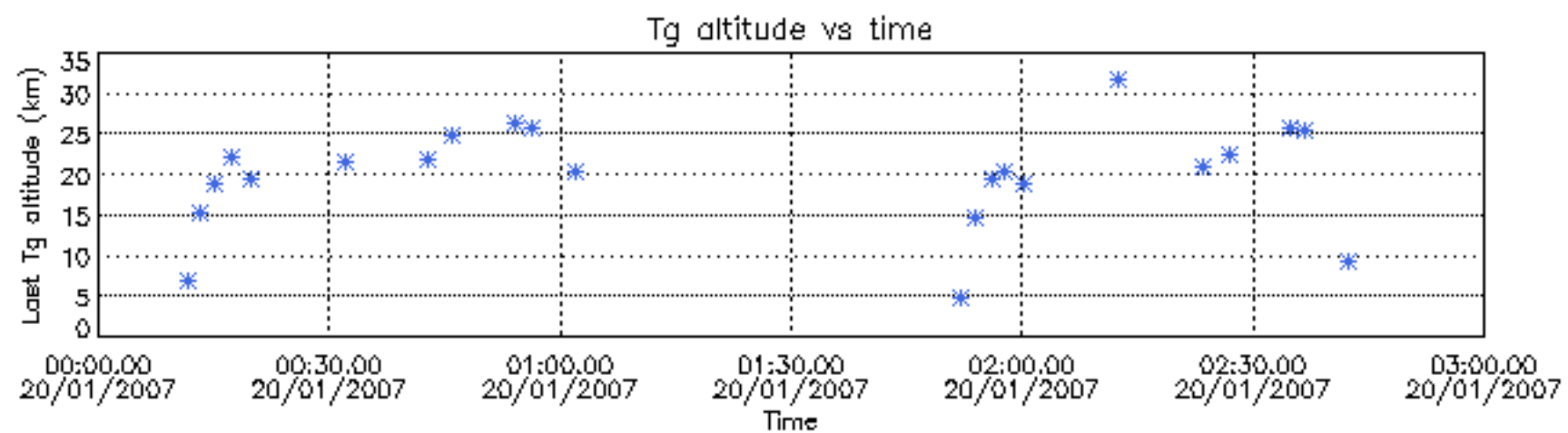




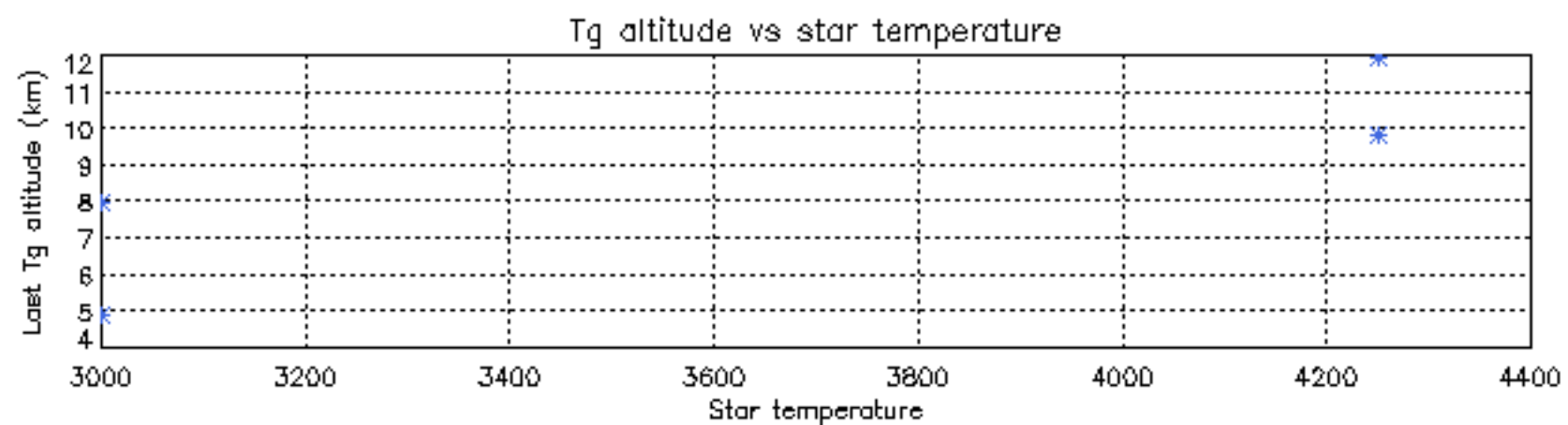
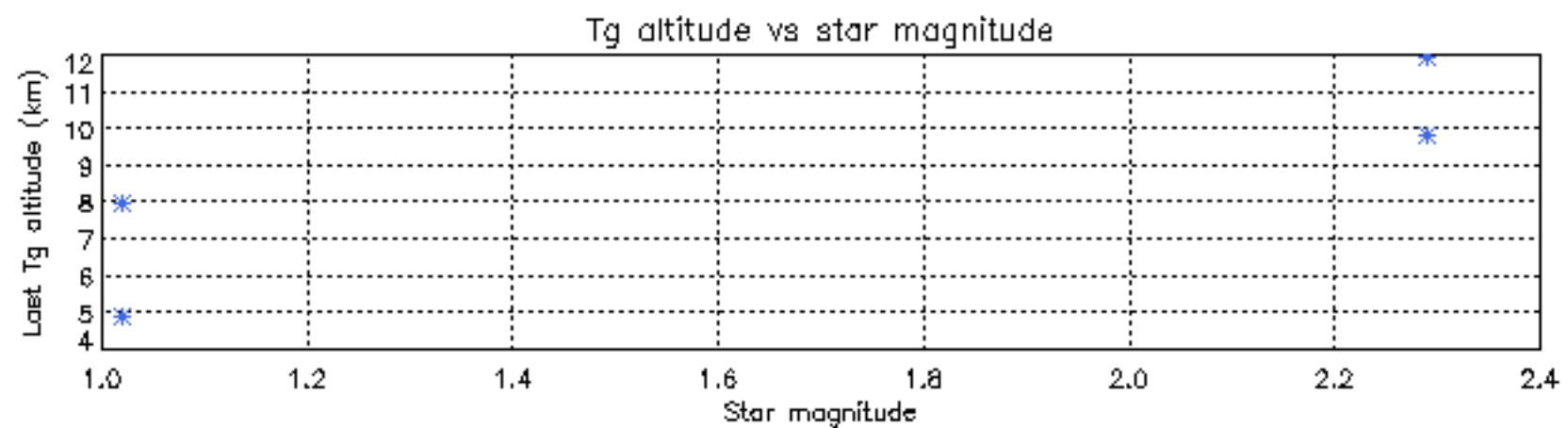
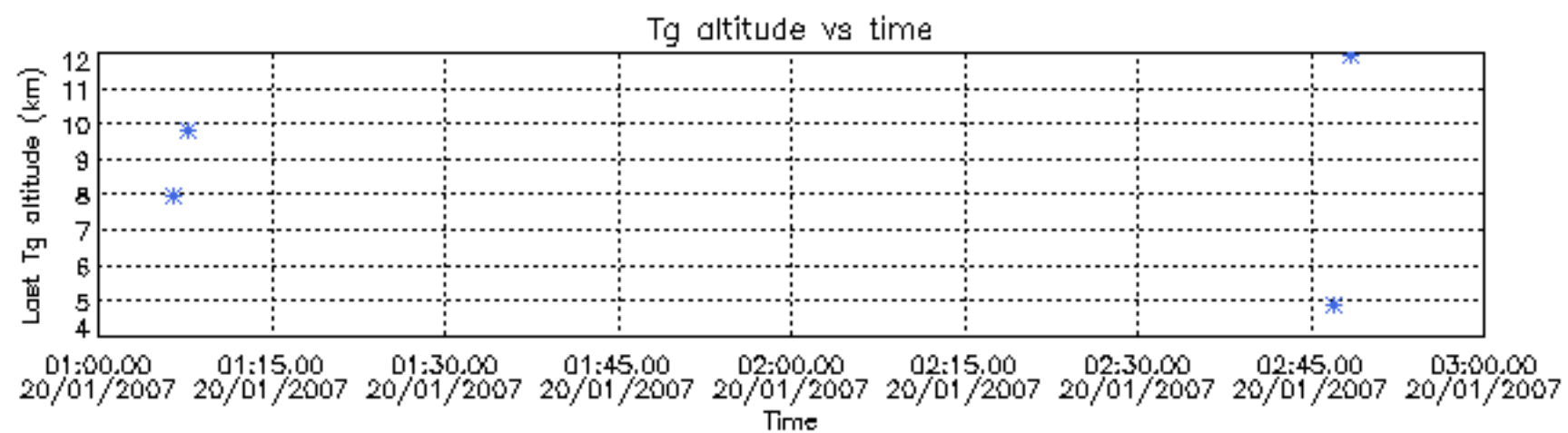
Tangent altitude at which the star is lost



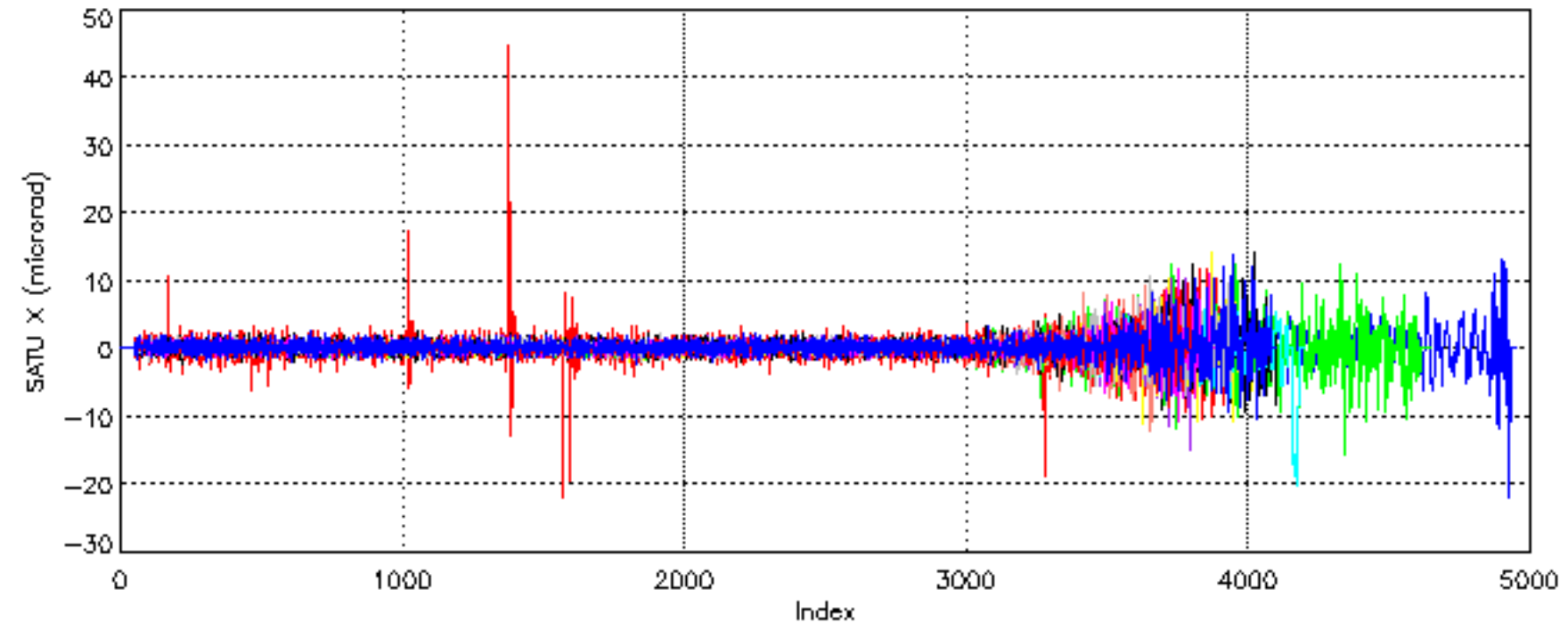
Tangent altitude at which the star is lost

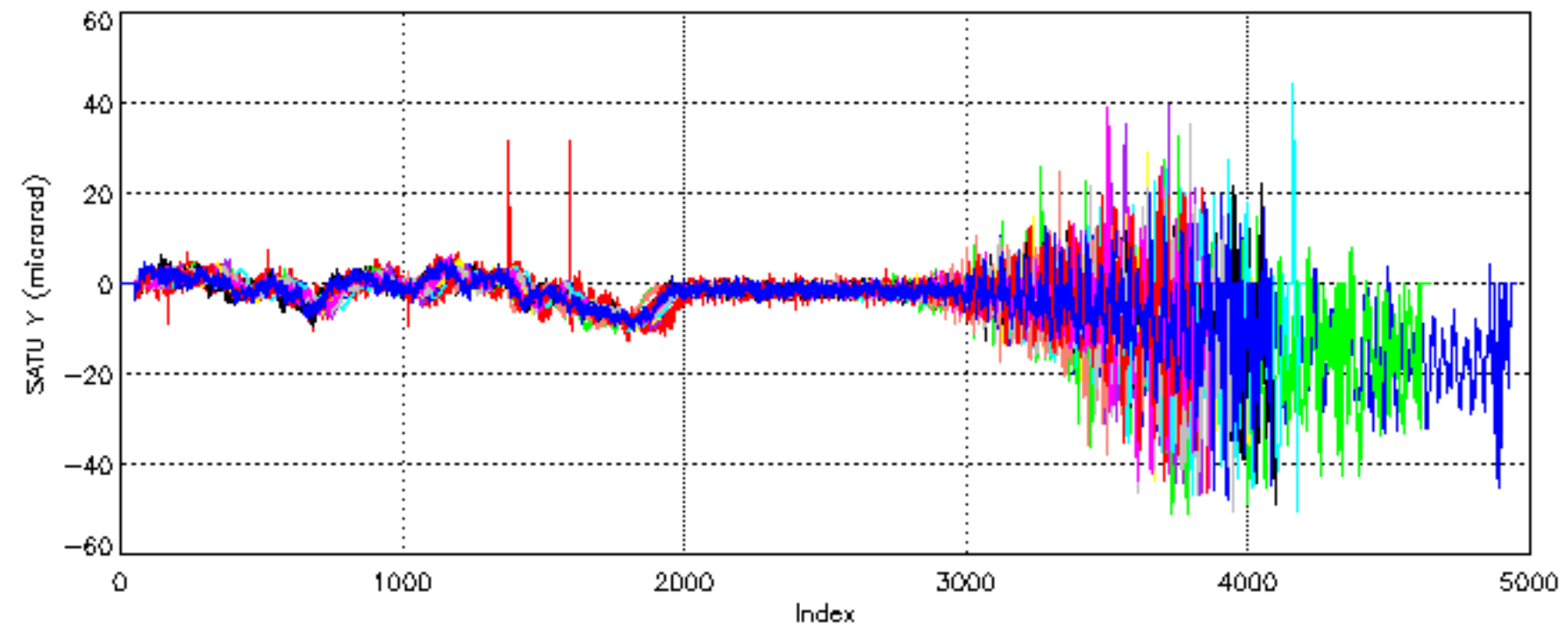


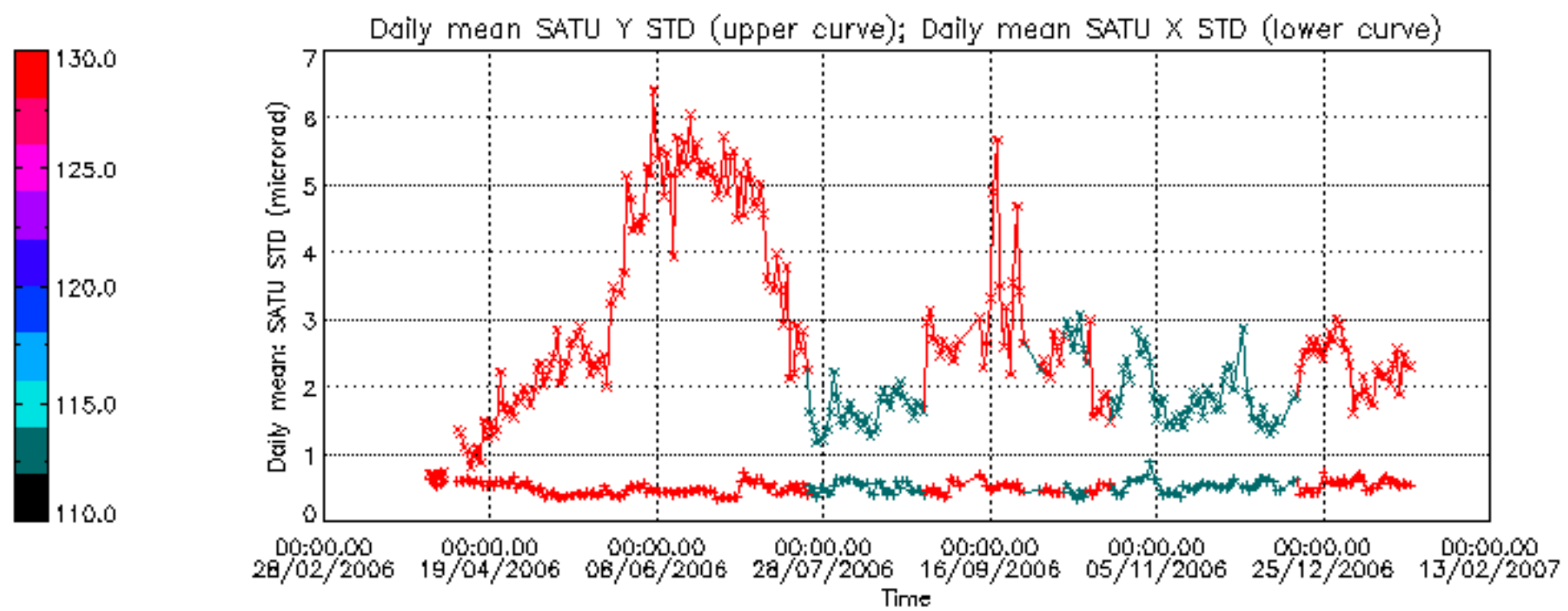
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070101\_010046\_000043812054\_00188\_25292\_2722.N1

1;	-684.5;	01-JAN-2007	01:00:46;	Dark	;	42.5;	122;	9Alp2Lib	;	2.75;	9700;	occ;	85;	0;	25292
2;	-193.3;	01-JAN-2007	01:08:57;	Dark	;	40.0;	78;	Alp Lup	;	2.30;	28000;	occ;	80;	0;	25292
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
23;	3691.3;	01-JAN-2007	02:13:42;	Bright;		5.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	11;	0;	25293

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070101\_021342\_000058022054\_00189\_25293\_2723.N1

1;	-2344.6;	01-JAN-2007	02:13:42;	Bright;		37.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	75;	0;	25293
2;	-2114.0;	01-JAN-2007	02:17:32;	Bright;		36.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	72;	0;	25293
3;	-1490.4;	01-JAN-2007	02:27:56;	Bright;		37.0;	67;	5Alp CrB	;	2.22;	11000;	occ;	74;	0;	25293
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
7;	-192.8;	01-JAN-2007	02:49:33;	Dark	;	37.5;	78;	Alp Lup	;	2.30;	28000;	occ;	75;	0;	25293
8;	-104.3;	01-JAN-2007	02:51:02;	Dark	;	39.0;	95;	Zet Cen	;	2.55;	26000;	occ;	78;	0;	25293
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
17;	1340.5;	01-JAN-2007	03:15:07;	Dark	;	44.5;	23;	21Eps CMA	;	1.50;	26000;	occ;	89;	0;	25294
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
25;	2567.8;	01-JAN-2007	03:35:34;	Bright;		37.5;	107;	37The Aur	;	2.65;	11000;	occ;	75;	0;	25294
26;	2693.1;	01-JAN-2007	03:37:39;	Bright;		39.0;	6;	13Alp Aur	;	0.08;	3400;	occ;	78;	0;	25294
27;	3423.2;	01-JAN-2007	03:49:49;	Bright;		34.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	69;	0;	25294

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1;	-2344.7;	01-JAN-2007	03:54:17;	Bright;		38.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	77;	0;	25294
2;	-2114.0;	01-JAN-2007	03:58:08;	Bright;		36.5;	119;	14Eta Dra	;	2.73;	4700;	occ;	73;	0;	25294
3;	-1614.0;	01-JAN-2007	04:06:28;	Bright;		28.0;	133;	40Zet Her	;	2.81;	6000;	occ;	56;	0;	25294
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
6;	-842.4;	01-JAN-2007	04:19:20;	Bright;		55.0;	104;	27Bet Lib	;	2.61;	13100;	occ;	110;	0;	25294
7;	-683.3;	01-JAN-2007	04:21:59;	Dark	;	42.0;	122;	9Alp2Lib	;	2.75;	9700;	occ;	84;	0;	25294
8;	-280.8;	01-JAN-2007	04:28:41;	Dark	;	38.0;	109;	Bet Lup	;	2.68;	26000;	occ;	76;	0;	25294
9;	-192.3;	01-JAN-2007	04:30:10;	Dark	;	38.0;	78;	Alp Lup	;	2.30;	28000;	occ;	76;	0;	25294
10;	-103.8;	01-JAN-2007	04:31:38;	Dark	;	39.5;	95;	Zet Cen	;	2.55;	26000;	occ;	79;	0;	25294
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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16; 732.5; 01-JAN-2007 04:45:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25295
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
19; 1340.8; 01-JAN-2007 04:55:43; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;25295
20; 1569.4; 01-JAN-2007 04:59:32; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;25295
21; 1769.7; 01-JAN-2007 05:02:52; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;25295
22; 1881.5; 01-JAN-2007 05:04:44; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;25295
23; 2033.2; 01-JAN-2007 05:07:15; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25295
24; 2271.4; 01-JAN-2007 05:11:14; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25295
25; 2397.7; 01-JAN-2007 05:13:20; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;25295
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
29; 3423.2; 01-JAN-2007 05:30:25; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;25295
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1; -2344.9; 01-JAN-2007 05:34:53; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;25295
2; -2114.0; 01-JAN-2007 05:38:44; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25295
3; -1614.0; 01-JAN-2007 05:47:04; Bright; 28.0; 133; 40Zet Her ; 2.81; 6000;occ; 56; 0;25295
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
6; -841.9; 01-JAN-2007 05:59:56; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25295
7; -682.8; 01-JAN-2007 06:02:35; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;25295
8; -280.4; 01-JAN-2007 06:09:18; Dark ; 36.5; 109; Bet Lup ; 2.68; 26000;occ; 73; 0;25295
9; -191.9; 01-JAN-2007 06:10:46; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;25295
10; -103.2; 01-JAN-2007 06:12:15; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25295
11; 39.8; 01-JAN-2007 06:14:38; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25296
12; 229.8; 01-JAN-2007 06:17:48; Dark ; 50.5; 12; Alp1Cru ; 0.77; 30000;occ; 101; 0;25296
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 8; 2680.8; 08-JAN-2007 11:40:18; Bright; 54.0; 42; 34Bet Aur ; 1.90; 10200;occ; 108; 0;25399  
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 18; 5165.0; 12-JAN-2007 13:36:25; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;25457  
 19; 5431.7; 12-JAN-2007 13:40:52; Dark ; 45.0; 16; 21Alp Sco ; 1.02; 3000;occ; 90; 0;25457  
 20; 5740.0; 12-JAN-2007 13:46:00; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25457  
 21; 5839.3; 12-JAN-2007 13:47:39; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;25457  
 22; 5930.0; 12-JAN-2007 13:49:10; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25457  
 23; 6044.9; 12-JAN-2007 13:51:05; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25457  
 24; 6148.2; 12-JAN-2007 13:52:48; Dark ; 39.5; 10; Bet Cen ; 0.61; 28000;occ; 79; 0;25457  
 25; 6303.1; 12-JAN-2007 13:55:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25457  
 26; 6549.5; 12-JAN-2007 13:59:30; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25457  
 27; 6639.2; 12-JAN-2007 14:00:59; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25457  
 28; 6748.3; 12-JAN-2007 14:02:48; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;25457  
 29; 6827.7; 12-JAN-2007 14:04:08; Dark ; 38.5; 41; Eps Car ; 1.86; 4100;occ; 77; 0;25457  
 30; 7026.5; 12-JAN-2007 14:07:27; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;25457  
 31; 7156.0; 12-JAN-2007 14:09:36; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;25457  
 32; 7260.7; 12-JAN-2007 14:11:21; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;25457  
 33; 7416.5; 12-JAN-2007 14:13:57; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;25457  
 34; 7502.8; 12-JAN-2007 14:15:23; Dark ; 4.5; 179; 240mi2CMA ; 3.03; 24000;occ; 9; 0;25457

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1; 1413.6; 12-JAN-2007 14:14:30; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 66;25458  
 2; 1467.0; 12-JAN-2007 14:15:23; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0;25458  
 3; 1602.7; 12-JAN-2007 14:17:39; Dark ; 48.0; 1; 9Alp CMA ; -1.44; 11000;occ; 96; 0;25458  
 4; 1751.2; 12-JAN-2007 14:20:07; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;25458  
 5; 1820.8; 12-JAN-2007 14:21:17; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25458  
 6; 1898.6; 12-JAN-2007 14:22:35; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;25458  
 7; 2035.0; 12-JAN-2007 14:24:51; Dark ; 10.5; 14; 58Alp Ori ; 0.87; 3000;occ; 21; 0;25458

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1; 2045.5; 12-JAN-2007 14:25:01; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 21;25458  
 2; 2193.5; 12-JAN-2007 14:27:30; Dark ; 36.0; 44; 24Gam Gem ; 1.93; 11000;occ; 72; 0;25458  
 3; 2271.1; 12-JAN-2007 14:28:47; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;25458

4; 2399.7; 12-JAN-2007 14:30:56; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25458  
5; 2490.6; 12-JAN-2007 14:32:27; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25458  
6; 2674.6; 12-JAN-2007 14:35:31; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;25458  
7; 3424.7; 12-JAN-2007 14:48:01; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;25458  
8; 3670.7; 12-JAN-2007 14:52:07; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25458  
9; 3924.1; 12-JAN-2007 14:56:20; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25458  
10; 4072.7; 12-JAN-2007 14:58:49; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;25458  
11; 4447.3; 12-JAN-2007 15:05:03; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;25458  
12; 4630.5; 12-JAN-2007 15:08:07; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;25458  
13; 5080.2; 12-JAN-2007 15:15:36; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;25458  
14; 5165.5; 12-JAN-2007 15:17:02; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;25458  
15; 5432.1; 12-JAN-2007 15:21:28; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;25458  
16; 5740.6; 12-JAN-2007 15:26:37; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25458  
17; 5840.0; 12-JAN-2007 15:28:16; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25458  
18; 5930.6; 12-JAN-2007 15:29:47; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25458  
19; 6045.7; 12-JAN-2007 15:31:42; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25458  
20; 6148.7; 12-JAN-2007 15:33:25; Dark ; 48.5; 10; Bet Cen ; 0.61; 28000;occ; 97; 0;25458  
21; 6303.4; 12-JAN-2007 15:35:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25458  
22; 6549.9; 12-JAN-2007 15:40:06; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;25458  
23; 6639.7; 12-JAN-2007 15:41:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25458  
24; 6748.9; 12-JAN-2007 15:43:25; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;25458  
25; 6828.1; 12-JAN-2007 15:44:44; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;25458  
26; 7026.8; 12-JAN-2007 15:48:03; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25458  
27; 7156.3; 12-JAN-2007 15:50:12; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;25458  
28; 7261.0; 12-JAN-2007 15:51:57; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25458

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2; 1467.3; 12-JAN-2007 15:55:59; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;25459  
3; 1602.8; 12-JAN-2007 15:58:15; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;25459  
4; 1751.4; 12-JAN-2007 16:00:43; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25459  
5; 1820.8; 12-JAN-2007 16:01:53; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25459  
6; 1898.7; 12-JAN-2007 16:03:11; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;25459  
7; 2035.0; 12-JAN-2007 16:05:27; Dark ; 45.0; 14; 58Alp Ori ; 0.87; 3000;occ; 90; 0;25459  
8; 2193.3; 12-JAN-2007 16:08:05; Dark ; 36.0; 44; 24Gam Gem ; 1.93; 11000;occ; 72; 0;25459  
9; 2271.2; 12-JAN-2007 16:09:23; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25459  
10; 2399.7; 12-JAN-2007 16:11:32; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25459  
11; 2490.8; 12-JAN-2007 16:13:03; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;25459  
12; 2674.5; 12-JAN-2007 16:16:06; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;25459  
13; 3424.8; 12-JAN-2007 16:28:37; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;25459  
14; 3670.4; 12-JAN-2007 16:32:42; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;25459  
15; 3923.8; 12-JAN-2007 16:36:56; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;25459  
16; 4072.5; 12-JAN-2007 16:39:24; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;25459  
17; 4447.5; 12-JAN-2007 16:45:39; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;25459  
18; 4630.6; 12-JAN-2007 16:48:43; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;25459  
19; 5080.6; 12-JAN-2007 16:56:13; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25459  
20; 5165.6; 12-JAN-2007 16:57:38; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;25459  
21; 5432.4; 12-JAN-2007 17:02:04; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;25459  
22; 5740.9; 12-JAN-2007 17:07:13; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;25459  
23; 5840.6; 12-JAN-2007 17:08:53; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;25459  
24; 5931.2; 12-JAN-2007 17:10:23; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25459  
25; 6046.5; 12-JAN-2007 17:12:18; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;25459  
26; 6149.2; 12-JAN-2007 17:14:01; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;25459  
27; 6303.7; 12-JAN-2007 17:16:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25459  
28; 6550.5; 12-JAN-2007 17:20:42; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25459  
29; 6639.9; 12-JAN-2007 17:22:12; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;25459  
30; 6749.4; 12-JAN-2007 17:24:01; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;25459  
31; 6828.4; 12-JAN-2007 17:25:20; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;25459  
32; 7027.3; 12-JAN-2007 17:28:39; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25459  
33; 7156.8; 12-JAN-2007 17:30:49; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;25459

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2; 1225.4; 12-JAN-2007 17:32:33; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;25460  
3; 1381.1; 12-JAN-2007 17:35:09; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;25460  
4; 1467.5; 12-JAN-2007 17:36:35; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0;25460  
5; 1603.0; 12-JAN-2007 17:38:51; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;25460  
6; 1751.5; 12-JAN-2007 17:41:19; Dark ; 40.0; 56; 53Kap Ori ; 2.07; 30000;occ; 80; 0;25460  
7; 1820.9; 12-JAN-2007 17:42:29; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25460  
8; 1898.8; 12-JAN-2007 17:43:47; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;25460

9; 2035.1; 12-JAN-2007 17:46:03; Dark ; 44.0; 14; 58Alp Ori ; 0.87; 3000;occ; 88; 0;25460  
10; 2193.2; 12-JAN-2007 17:48:41; Dark ; 43.5; 44; 24Gam Gem ; 1.93; 11000;occ; 87; 0;25460  
11; 2271.3; 12-JAN-2007 17:49:59; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;25460  
12; 2399.9; 12-JAN-2007 17:52:08; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;25460  
13; 2491.0; 12-JAN-2007 17:53:39; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25460  
14; 2674.3; 12-JAN-2007 17:56:42; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25460  
15; 3424.8; 12-JAN-2007 18:09:13; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25460  
16; 3670.2; 12-JAN-2007 18:13:18; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;25460  
17; 3923.7; 12-JAN-2007 18:17:32; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;25460  
18; 4072.7; 12-JAN-2007 18:20:01; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;25460  
19; 4447.5; 12-JAN-2007 18:26:16; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25460  
20; 4630.8; 12-JAN-2007 18:29:19; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;25460  
21; 5080.9; 12-JAN-2007 18:36:49; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25460  
22; 5165.8; 12-JAN-2007 18:38:14; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;25460  
23; 5432.7; 12-JAN-2007 18:42:41; Dark ; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;25460  
24; 5741.4; 12-JAN-2007 18:47:49; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25460  
25; 5841.2; 12-JAN-2007 18:49:29; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;25460  
26; 5931.8; 12-JAN-2007 18:51:00; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25460  
27; 6047.3; 12-JAN-2007 18:52:55; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25460  
28; 6149.6; 12-JAN-2007 18:54:38; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;25460  
29; 6304.0; 12-JAN-2007 18:57:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25460  
30; 6550.8; 12-JAN-2007 19:01:19; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25460  
31; 6640.3; 12-JAN-2007 19:02:48; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;25460  
32; 6749.7; 12-JAN-2007 19:04:38; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;25460  
33; 6828.7; 12-JAN-2007 19:05:57; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;25460

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1; 796.2; 12-JAN-2007 19:06:00; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 7;25461  
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3; 1121.3; 12-JAN-2007 19:11:25; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;25461  
4; 1225.6; 12-JAN-2007 19:13:10; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25461  
5; 1381.2; 12-JAN-2007 19:15:45; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;25461  
6; 1467.7; 12-JAN-2007 19:17:12; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;25461  
7; 1603.0; 12-JAN-2007 19:19:27; Dark ; 50.5; 1; 9Alp CMa ; -1.44; 11000;occ; 101; 0;25461  
8; 1751.6; 12-JAN-2007 19:21:56; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25461  
9; 1821.2; 12-JAN-2007 19:23:05; Dark ; 36.5; 125; 44Iot Ori ; 2.77; 30000;occ; 73; 0;25461  
10; 1898.9; 12-JAN-2007 19:24:23; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;25461  
11; 2035.1; 12-JAN-2007 19:26:39; Dark ; 45.5; 14; 58Alp Ori ; 0.87; 3000;occ; 91; 0;25461  
12; 2193.1; 12-JAN-2007 19:29:17; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;25461  
13; 2271.3; 12-JAN-2007 19:30:35; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;25461  
14; 2399.9; 12-JAN-2007 19:32:44; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;25461  
15; 2491.2; 12-JAN-2007 19:34:15; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25461  
16; 2674.2; 12-JAN-2007 19:37:18; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;25461  
17; 3424.7; 12-JAN-2007 19:49:49; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;25461  
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19; 3923.7; 12-JAN-2007 19:58:08; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;25461  
20; 4072.6; 12-JAN-2007 20:00:37; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;25461  
21; 4447.6; 12-JAN-2007 20:06:52; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25461  
22; 4631.0; 12-JAN-2007 20:09:55; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;25461  
23; 5081.3; 12-JAN-2007 20:17:25; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25461  
24; 5166.1; 12-JAN-2007 20:18:50; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;25461  
25; 5433.0; 12-JAN-2007 20:23:17; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0;25461  
26; 5741.8; 12-JAN-2007 20:28:26; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;25461  
27; 5841.5; 12-JAN-2007 20:30:05; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;25461  
28; 5932.2; 12-JAN-2007 20:31:36; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25461  
29; 6047.9; 12-JAN-2007 20:33:32; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25461  
30; 6150.1; 12-JAN-2007 20:35:14; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25461  
31; 6304.2; 12-JAN-2007 20:37:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25461  
32; 6551.4; 12-JAN-2007 20:41:55; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25461  
33; 6640.5; 12-JAN-2007 20:43:24; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;25461  
34; 6750.1; 12-JAN-2007 20:45:14; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25461  
35; 6829.0; 12-JAN-2007 20:46:33; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;25461

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3; -1962.9; 13-JAN-2007 02:43:00; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;25465  
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5; -1404.1; 13-JAN-2007 02:52:19; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;25465  
6; -953.1; 13-JAN-2007 02:59:50; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;25465



7; -868.3; 13-JAN-2007 03:01:15; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;25465  
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13; 116.2; 13-JAN-2007 03:17:40; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;25466  
14; 269.3; 13-JAN-2007 03:20:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25466  
15; 517.5; 13-JAN-2007 03:24:21; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;25466  
16; 605.9; 13-JAN-2007 03:25:49; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25466  
17; 716.1; 13-JAN-2007 03:27:39; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;25466  
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22; 1382.4; 13-JAN-2007 03:38:46; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;25466  
23; 1468.7; 13-JAN-2007 03:40:12; Dark ; 41.5; 179; 240mi2CMa ; 3.03; 24000;occ; 83; 0;25466  
24; 1603.9; 13-JAN-2007 03:42:27; Dark ; 44.5; 1; 9Alp CMa ; -1.44; 11000;occ; 89; 0;25466  
25; 1752.5; 13-JAN-2007 03:44:56; Dark ; 38.0; 56; 53Kap Ori ; 2.07; 30000;occ; 76; 0;25466  
26; 1822.2; 13-JAN-2007 03:46:06; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25466  
27; 1899.9; 13-JAN-2007 03:47:23; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25466  
28; 2035.7; 13-JAN-2007 03:49:39; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;25466  
29; 2192.6; 13-JAN-2007 03:52:16; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;25466  
30; 2294.6; 13-JAN-2007 03:53:58; Bright; 43.5; 151; 13Mu Gem ; 2.89; 3000;occ; 87; 0;25466  
31; 2400.4; 13-JAN-2007 03:55:44; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25466  
32; 2492.2; 13-JAN-2007 03:57:16; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;25466  
33; 2673.9; 13-JAN-2007 04:00:17; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25466  
34; 3424.9; 13-JAN-2007 04:12:48; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;25466

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4; -1587.7; 13-JAN-2007 04:29:52; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;25466  
5; -1404.0; 13-JAN-2007 04:32:55; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;25466  
6; -952.7; 13-JAN-2007 04:40:27; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;25466  
7; -868.2; 13-JAN-2007 04:41:51; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;25466  
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12; 15.9; 13-JAN-2007 04:56:35; Dark ; 25.0; 95; Zet Cen ; 2.55; 26000;occ; 50; 0;25467  
13; 116.7; 13-JAN-2007 04:58:16; Dark ; 40.5; 10; Bet Cen ; 0.61; 28000;occ; 81; 0;25467  
14; 269.6; 13-JAN-2007 05:00:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25467  
15; 517.9; 13-JAN-2007 05:04:57; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25467  
16; 606.1; 13-JAN-2007 05:06:25; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;25467  
17; 716.6; 13-JAN-2007 05:08:16; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;25467  
18; 795.0; 13-JAN-2007 05:09:34; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;25467  
19; 994.2; 13-JAN-2007 05:12:54; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;25467  
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21; 1227.3; 13-JAN-2007 05:16:47; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;25467  
22; 1382.7; 13-JAN-2007 05:19:22; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;25467  
23; 1468.7; 13-JAN-2007 05:20:48; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;25467  
24; 1604.0; 13-JAN-2007 05:23:03; Dark ; 48.5; 1; 9Alp CMa ; -1.44; 11000;occ; 97; 0;25467  
25; 1752.7; 13-JAN-2007 05:25:32; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25467  
26; 1822.2; 13-JAN-2007 05:26:42; Dark ; 39.0; 125; 44Iot Ori ; 2.77; 30000;occ; 78; 0;25467  
27; 1899.9; 13-JAN-2007 05:27:59; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;25467  
28; 2035.7; 13-JAN-2007 05:30:15; Dark ; 47.5; 14; 58Alp Ori ; 0.87; 3000;occ; 95; 0;25467  
29; 2192.5; 13-JAN-2007 05:32:52; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;25467  
30; 2294.6; 13-JAN-2007 05:34:34; Bright; 46.0; 151; 13Mu Gem ; 2.89; 3000;occ; 92; 0;25467  
31; 2400.6; 13-JAN-2007 05:36:20; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;25467  
32; 2492.4; 13-JAN-2007 05:37:52; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;25467  
33; 2673.8; 13-JAN-2007 05:40:53; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25467  
34; 3424.9; 13-JAN-2007 05:53:24; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;25467

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4; 997.5; 13-JAN-2007 20:18:20; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25476

5; 1126.8; 13-JAN-2007 20:20:29; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;25476  
6; 1229.7; 13-JAN-2007 20:22:12; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;25476  
7; 1384.5; 13-JAN-2007 20:24:47; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;25476  
8; 1470.3; 13-JAN-2007 20:26:13; Dark ; 40.5; 179; 240mi2CMa ; 3.03; 24000;occ; 81; 0;25476  
9; 1605.3; 13-JAN-2007 20:28:28; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;25476  
10; 1753.9; 13-JAN-2007 20:30:57; Dark ; 38.5; 56; 53Kap Ori ; 2.07; 30000;occ; 77; 0;25476  
11; 1823.9; 13-JAN-2007 20:32:07; Dark ; 37.0; 125; 44Iot Ori ; 2.77; 30000;occ; 74; 0;25476  
12; 1901.4; 13-JAN-2007 20:33:24; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;25476  
13; 2036.4; 13-JAN-2007 20:35:39; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;25476  
14; 2191.4; 13-JAN-2007 20:38:14; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;25476  
15; 2272.7; 13-JAN-2007 20:39:35; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;25476  
16; 2401.5; 13-JAN-2007 20:41:44; Bright; 36.0; 28; 12Bet Tau ; 1.65; 15200;occ; 72; 0;25476  
17; 2494.2; 13-JAN-2007 20:43:17; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25476  
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19; 3424.8; 13-JAN-2007 20:58:47; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;25476  
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22; 4074.2; 13-JAN-2007 21:09:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;25476  
23; 4449.9; 13-JAN-2007 21:15:52; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25476  
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25; 5087.1; 13-JAN-2007 21:26:30; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25476  
26; 5171.0; 13-JAN-2007 21:27:54; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;25476

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6; 272.2; 13-JAN-2007 21:46:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25477  
7; 522.7; 13-JAN-2007 21:51:01; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;25477  
8; 609.3; 13-JAN-2007 21:52:28; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25477  
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13; 1229.9; 13-JAN-2007 22:02:48; Dark ; 40.5; 117; Pi Pup ; 2.71; 3800;occ; 81; 0;25477  
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18; 1824.0; 13-JAN-2007 22:12:43; Dark ; 37.0; 125; 44Iot Ori ; 2.77; 30000;occ; 74; 0;25477  
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21; 2191.3; 13-JAN-2007 22:18:50; Dark ; 41.5; 44; 24Gam Gem ; 1.93; 11000;occ; 83; 0;25477  
22; 2272.8; 13-JAN-2007 22:20:11; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;25477  
23; 2401.6; 13-JAN-2007 22:22:20; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;25477  
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26; 3424.8; 13-JAN-2007 22:39:23; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;25477  
27; 3667.6; 13-JAN-2007 22:43:26; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25477  
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32; 5087.5; 13-JAN-2007 23:07:06; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25477  
33; 5171.3; 13-JAN-2007 23:08:30; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;25477

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5; 66.9; 13-JAN-2007 23:24:01; Dark ; 51.0; 4; Alp1Cen ; -0.01; 5800;occ; 102; 0;25478  
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7; 523.4; 13-JAN-2007 23:31:38; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;25478  
8; 609.6; 13-JAN-2007 23:33:04; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;25478  
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3;	1916.2;	19-JAN-2007	09:00:56;	Dark	;	42.5;	30;	46Eps Ori	;	1.69;	30000;occ;	85;	0;	25555
4;	2046.1;	19-JAN-2007	09:03:06;	Dark	;	46.5;	14;	58Alp Ori	;	0.87;	3000;occ;	93;	0;	25555
5;	2186.9;	19-JAN-2007	09:05:26;	Dark	;	53.0;	44;	24Gam Gem	;	1.93;	11000;occ;	106;	0;	25555
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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
9;	2671.9;	19-JAN-2007	09:13:31;	Bright;		36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	25555
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11;	4081.3;	19-JAN-2007	09:37:01;	Bright;		36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25555
12;	4274.5;	19-JAN-2007	09:40:14;	Bright;		32.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	65;	0;	25555
13;	4752.4;	19-JAN-2007	09:48:12;	Bright;		33.5;	59;	55Alp Oph	;	2.08;	8900;occ;	67;	0;	25555
14;	4879.1;	19-JAN-2007	09:50:19;	Bright;		32.5;	126;	60Bet Oph	;	2.77;	4250;occ;	65;	0;	25555
15;	5200.4;	19-JAN-2007	09:55:40;	Bright;		39.0;	98;	13Zet Oph	;	2.57;	30000;occ;	78;	0;	25555
16;	5468.8;	19-JAN-2007	10:00:08;	Dark	;	49.5;	16;	21Alp Sco	;	1.02;	3000;occ;	99;	0;	25555
17;	5564.4;	19-JAN-2007	10:01:44;	Dark	;	44.0;	75;	26Eps Sco	;	2.29;	4250;occ;	88;	0;	25555
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
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3;	866.4;	19-JAN-2007	10:24:02;	Dark	;	41.0;	46;	Del Vel	;	1.95;	10600;occ;	82;	0;	25556
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
9;	1616.5;	19-JAN-2007	10:36:32;	Dark	;	51.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	102;	0;	25556
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2;	1838.9;	19-JAN-2007	10:40:14;	Dark	;	39.0;	125;	44Iot Ori	;	2.77;	30000;occ;	78;	0;	25556
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
5;	2186.9;	19-JAN-2007	10:46:02;	Dark	;	43.5;	44;	24Gam Gem	;	1.93;	11000;occ;	87;	0;	25556
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
10;	3425.6;	19-JAN-2007	11:06:41;	Bright;		36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	25556
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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19;	6138.0;	19-JAN-2007	11:51:53;	Dark	;	45.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	91;	0;	25556
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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
29;	7652.5;	19-JAN-2007	12:17:08;	Dark	;	31.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	62;	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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23; 3426.4; 24-JAN-2007 00:05:36; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25621
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27; 4893.4; 24-JAN-2007 00:30:03; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;25621
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3;	-442.4;	24-JAN-2007	22:29:30;	Dark	;	41.5;	75;	26Eps Sco	;	2.29;	4250;occ;	83;	0;	25634
4;	-193.9;	24-JAN-2007	22:33:39;	Dark	;	40.5;	131;	Gam Lup	;	2.80;	26000;occ;	81;	0;	25634
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12;	1051.9;	24-JAN-2007	22:54:24;	Dark	;	39.0;	34;	Gam2Vel	;	1.79;	23000;occ;	78;	0;	25635
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21;	2548.7;	24-JAN-2007	23:19:21;	Bright;	;	35.5;	107;	37The Aur	;	2.65;	11000;occ;	71;	0;	25635
22;	2676.8;	24-JAN-2007	23:21:29;	Bright;	;	35.5;	42;	34Bet Aur	;	1.90;	10200;occ;	71;	0;	25635
23;	3426.4;	24-JAN-2007	23:33:59;	Bright;	;	35.0;	49;	1Alp UMi	;	1.99;	6300;occ;	70;	0;	25635
24;	4085.8;	24-JAN-2007	23:44:58;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25635
25;	4289.4;	24-JAN-2007	23:48:22;	Bright;	;	33.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	67;	0;	25635
26;	4770.3;	24-JAN-2007	23:56:23;	Bright;	;	34.0;	59;	55Alp Oph	;	2.08;	8900;occ;	68;	0;	25635
27;	4896.8;	24-JAN-2007	23:58:29;	Bright;	;	34.0;	126;	60Bet Oph	;	2.77;	4250;occ;	68;	0;	25635
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6;	-532.8;	24-JAN-2007	07:22:36;	Dark	;	49.0;	16;	21Alp Sco	;	1.02;	3000;occ;	98;	0;	25625
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8;	-199.7;	24-JAN-2007	07:28:09;	Dark	;	40.5;	131;	Gam Lup	;	2.80;	26000;occ;	81;	0;	25625
9;	9.8;	24-JAN-2007	07:31:39;	Dark	;	41.0;	78;	Alp Lup	;	2.30;	28000;occ;	82;	0;	25626
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11;	223.7;	24-JAN-2007	07:35:13;	Dark	;	27.0;	77;	Eps Cen	;	2.30;	28000;occ;	54;	0;	25626
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3;	2188.2;	24-JAN-2007	08:07:57;	Bright;	;	38.5;	44;	24Gam Gem	;	1.93;	11000;occ;	77;	0;	25626
4;	2294.6;	24-JAN-2007	08:09:43;	Bright;	;	37.0;	151;	13Mu Gem	;	2.89;	3000;occ;	74;	0;	25626
5;	2548.0;	24-JAN-2007	08:13:57;	Bright;	;	35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	25626
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7;	3426.7;	24-JAN-2007	08:28:36;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	25626
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 22; 7212.5; 24-JAN-2007 11:12:17; Dark ; 38.0; 70; Zet Pup ; 2.25; 39000;occ; 76; 0;25627  
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