

# GOMOS Daily Report 24-DEC-2007

## Level 0 and Level 1 products

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

Item	Value
Time of report generation	26DEC2007 06:01:34
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (24DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (25DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

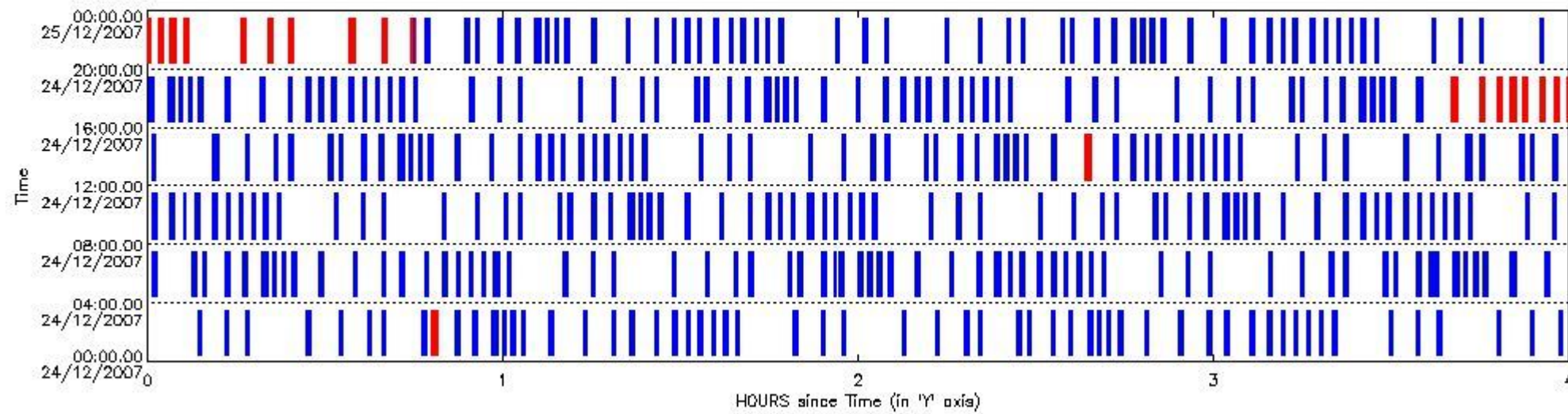
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

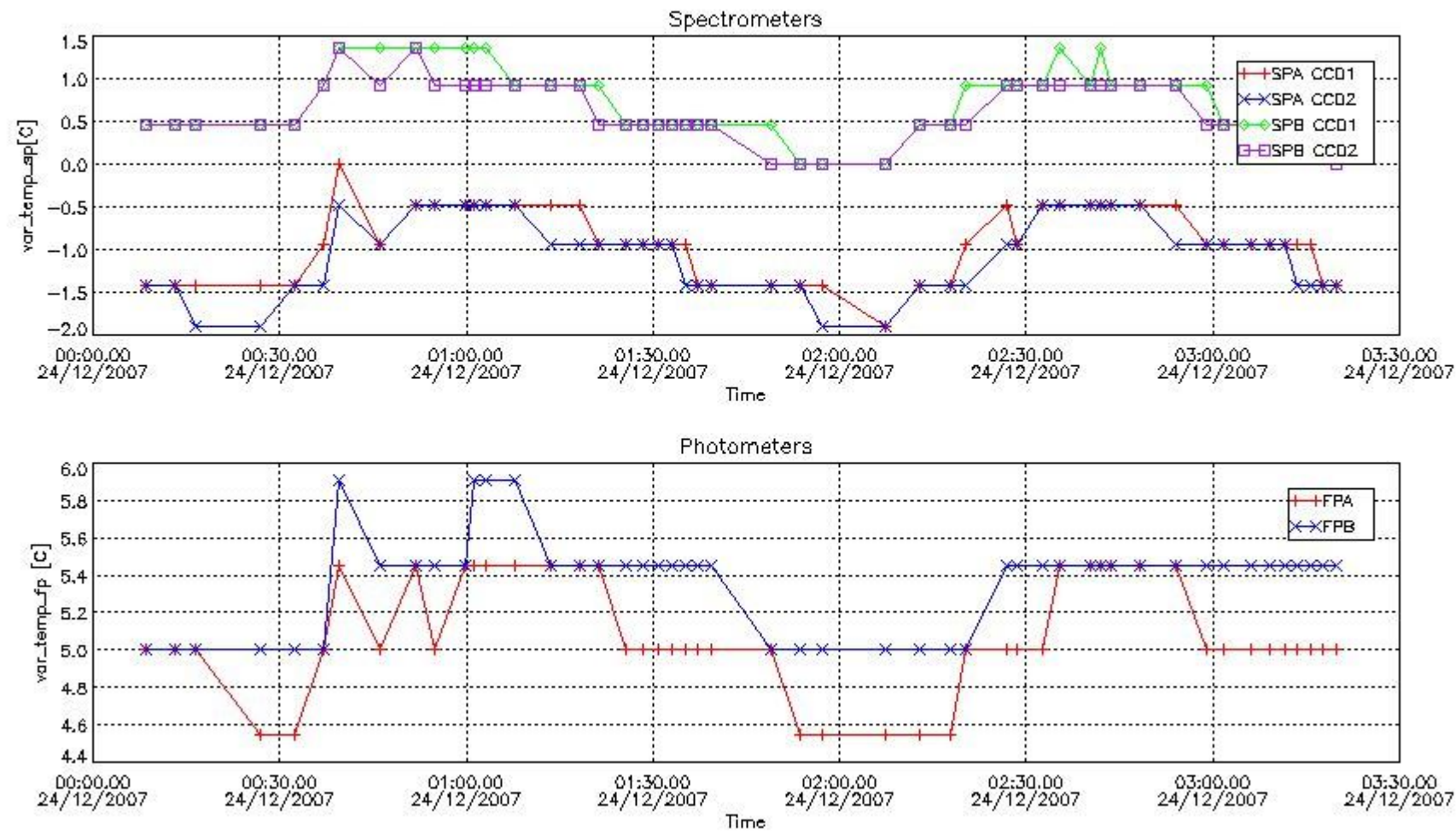
UTC start time	Star name	Star ID	Orbit
24-DEC-2007 00:47:56	AlpLup	78	30402
24-DEC-2007 14:38:20	AlpCol	108	30411
24-DEC-2007 19:40:08	AlpCol	108	30414
24-DEC-2007 19:44:53	11AlpLep	101	30414
24-DEC-2007 19:47:49	19BetOri	7	30414
24-DEC-2007 19:50:07	34DelOri	72	30414
24-DEC-2007 19:52:06	24GamOri	27	30414
24-DEC-2007 19:55:01	87AlpTau	13	30414
24-DEC-2007 19:57:30	25EtaTau	146	30414
24-DEC-2007 19:59:33	44ZetPer	150	30414
24-DEC-2007 20:01:46	45EpsPer	149	30414
24-DEC-2007 20:03:40	13AlpAur	6	30414
24-DEC-2007 20:05:59	23GamPer	160	30414
24-DEC-2007 20:15:34	1AlpUMi	49	30414
24-DEC-2007 20:20:11	7BetUMi	60	30414

24-DEC-2007 20:23:46	14EtaDra	119	30414
24-DEC-2007 20:33:58	5AlpCrB	67	30414
24-DEC-2007 20:39:33	24AlpSer	102	30414
24-DEC-2007 20:44:23	27BetLib	104	30414

## 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_1PNPDE20071224_000824_000000352064_00288_30402_9210.N1	24-DEC-2007 00:08:24	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30402	No
2	GOM_TRA_1PNPDE20071224_001302_000000352064_00288_30402_9211.N1	24-DEC-2007 00:13:02	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	30402	No
3	GOM_TRA_1PNPDE20071224_001635_000000352064_00288_30402_9212.N1	24-DEC-2007 00:16:35	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	30402	No
4	GOM_TRA_1PNPDE20071224_002646_000000402064_00288_30402_9213.N1	24-DEC-2007 00:26:46	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	30402	No
5	GOM_TRA_1PNPDE20071224_003220_000000342064_00288_30402_9214.N1	24-DEC-2007 00:32:20	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	30402	No
6	GOM_TRA_1PNPDE20071224_003709_000000362064_00288_30402_9215.N1	24-DEC-2007 00:37:09	Bright	35.500	104	27Bet Lib	2.6140	13100.	71	30402	No
7	GOM_TRA_1PNPDE20071224_003933_000000382064_00288_30402_9346.N1	24-DEC-2007 00:39:33	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	30402	Yes
8	GOM_TRA_1PNPDE20071224_004611_000000442064_00288_30402_9347.N1	24-DEC-2007 00:46:11	Dark	44.000	54	5The Cen	2.0550	4500.0	88	30402	No
9	GOM_TRA_1PNPDE20071224_005153_000000452064_00288_30402_9348.N1	24-DEC-2007 00:51:53	Dark	45.000	10	Bet Cen	0.61000	28000.	90	30402	No
10	GOM_TRA_1PNPDE20071224_005447_000000492064_00289_30403_9349.N1	24-DEC-2007 00:54:47	Dark	49.000	12	Alp1Cru	0.77500	30000.	98	30403	No
11	GOM_TRA_1PNPDE20071224_005947_000000392064_00289_30403_9350.N1	24-DEC-2007 00:59:47	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30403	No
12	GOM_TRA_1PNPDE20071224_010119_000000412064_00289_30403_9351.N1	24-DEC-2007 01:01:19	Dark	41.000	71	lot Car	2.2460	7700.0	82	30403	No
13	GOM_TRA_1PNPDE20071224_010306_000000412064_00289_30403_9352.N1	24-DEC-2007 01:03:06	Dark	40.500	41	Eps Car	1.8600	4100.0	81	30403	No
14	GOM_TRA_1PNPDE20071224_010740_000000452064_00289_30403_9353.N1	24-DEC-2007 01:07:40	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	30403	No
15	GOM_TRA_1PNPDE20071224_011331_000000412064_00289_30403_9354.N1	24-DEC-2007 01:13:31	Straylight	41.000	108	Alp Col	2.6520	15200.	82	30403	No
16	GOM_TRA_1PNPDE20071224_011818_000000432064_00289_30403_9355.N1	24-DEC-2007 01:18:18	Straylight	42.500	101	11Alp Lep	2.5820	7000.0	85	30403	No
17	GOM_TRA_1PNPDE20071224_012114_000000532064_00289_30403_9356.N1	24-DEC-2007 01:21:14	Straylight	52.500	7	19Bet Ori	0.10000	14000.	105	30403	No
18	GOM_TRA_1PNPDE20071224_012532_000000352064_00289_30403_9357.N1	24-DEC-2007 01:25:32	Twilight_stray	35.000	27	24Gam Ori	1.6360	26000.	70	30403	No
19	GOM_TRA_1PNPDE20071224_012827_000000522064_00289_30403_9358.N1	24-DEC-2007 01:28:27	Twilight_stray	52.000	13	87Alp Tau	0.86700	3800.0	104	30403	No
20	GOM_TRA_1PNPDE20071224_013053_000000362064_00289_30403_9359.N1	24-DEC-2007 01:30:53	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	30403	No
21	GOM_TRA_1PNPDE20071224_013258_000000362064_00289_30403_9360.N1	24-DEC-2007 01:32:58	Bright	35.500	150	44Zet Per	2.8900	28000.	71	30403	No
22	GOM_TRA_1PNPDE20071224_013510_000000342064_00289_30403_9361.N1	24-DEC-2007 01:35:10	Bright	34.000	149	45Eps Per	2.8880	30000.	68	30403	No
23	GOM_TRA_1PNPDE20071224_013708_000000432064_00289_30403_9362.N1	24-DEC-2007 01:37:08	Bright	43.000	6	13Alp Aur	0.080000	3400.0	86	30403	No
24	GOM_TRA_1PNPDE20071224_013922_000000352064_00289_30403_9363.N1	24-DEC-2007 01:39:22	Bright	34.500	160	23Gam Per	2.9300	4700.0	69	30403	No
25	GOM_TRA_1PNPDE20071224_014900_000000362064_00289_30403_9364.N1	24-DEC-2007 01:49:00	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30403	No
26	GOM_TRA_1PNPDE20071224_015338_000000392064_00289_30403_9365.N1	24-DEC-2007 01:53:38	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	30403	No
27	GOM_TRA_1PNPDE20071224_015710_000000372064_00289_30403_9366.N1	24-DEC-2007 01:57:10	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	30403	No
28	GOM_TRA_1PNPDE20071224_020722_000000352064_00289_30403_9367.N1	24-DEC-2007 02:07:22	Bright	35.000	67	5Alp CrB	2.2210	11000.	70	30403	No
29	GOM_TRA_1PNPDE20071224_021257_000000332064_00289_30403_9368.N1	24-DEC-2007 02:12:57	Bright	32.500	102	24Alp Ser	2.6000	4250.0	65	30403	No
30	GOM_TRA_1PNPDE20071224_021745_000000532064_00289_30403_9459.N1	24-DEC-2007 02:17:45	Bright	53.000	104	27Bet Lib	2.6140	13100.	106	30403	No
31	GOM_TRA_1PNPDE20071224_022010_000000452064_00289_30403_9460.N1	24-DEC-2007 02:20:10	Bright	45.000	122	9Alp2Lib	2.7470	9700.0	90	30403	No
32	GOM_TRA_1PNPDE20071224_022647_000000432064_00289_30403_9461.N1	24-DEC-2007 02:26:47	Dark	42.500	54	5The Cen	2.0550	4500.0	85	30403	No
33	GOM_TRA_1PNPDE20071224_022834_000000382064_00289_30403_9462.N1	24-DEC-2007 02:28:34	Dark	37.500	78	Alp Lup	2.3040	28000.	75	30403	No
34	GOM_TRA_1PNPDE20071224_023229_000000432064_00289_30403_9463.N1	24-DEC-2007 02:32:29	Dark	42.500	10	Bet Cen	0.61000	28000.	85	30403	No
35	GOM_TRA_1PNPDE20071224_023524_000000392064_00290_30404_9464.N1	24-DEC-2007 02:35:24	Dark	39.000	12	Alp1Cru	0.77500	30000.	78	30404	No
36	GOM_TRA_1PNPDE20071224_024024_000000382064_00290_30404_9465.N1	24-DEC-2007 02:40:24	Dark	38.000	159	Ups Car	2.9200	7200.0	76	30404	No
37	GOM_TRA_1PNPDE20071224_024156_000000422064_00290_30404_9466.N1	24-DEC-2007 02:41:56	Dark	41.500	71	lot Car	2.2460	7700.0	83	30404	No
38	GOM_TRA_1PNPDE20071224_024342_000000522064_00290_30404_9467.N1	24-DEC-2007 02:43:42	Dark	52.000	41	Eps Car	1.8600	4100.0	104	30404	No
39	GOM_TRA_1PNPDE20071224_024817_000000432064_00290_30404_9468.N1	24-DEC-2007 02:48:17	Dark	42.500	2	Alp Car	-0.73600	7000.0	85	30404	No
40	GOM_TRA_1PNPDE20071224_025408_000000412064_00290_30404_9469.N1	24-DEC-2007 02:54:08	Straylight	41.000	108	Alp Col	2.6520	15200.	82	30404	No
41	GOM_TRA_1PNPDE20071224_025854_000000442064_00290_30404_9470.N1	24-DEC-2007 02:58:54	Straylight	44.000	101	11Alp Lep	2.5820	7000.0	88	30404	No
42	GOM_TRA_1PNPDE20071224_030150_000000482064_00290_30404_9471.N1	24-DEC-2007 03:01:50	Straylight	47.500	7	19Bet Ori	0.10000	14000.	95	30404	No
43	GOM_TRA_1PNPDE20071224_030608_000000442064_00290_30404_9472.N1	24-DEC-2007 03:06:08	Twilight_stray	44.000	27	24Gam Ori	1.6360	26000.	88	30404	No
44	GOM_TRA_1PNPDE20071224_030903_000000472064_00290_30404_9473.N1	24-DEC-2007 03:09:03	Twilight_stray	47.000	13	87Alp Tau	0.86700	3800.0	94	30404	No
45	GOM_TRA_1PNPDE20071224_031129_000000372064_00290_30404_9474.N1	24-DEC-2007 03:11:29	Bright	36.500	146	25Eta Tau	2.8730	15200.	73	30404	No
46	GOM_TRA_1PNPDE20071224_031333_000000362064_00290_30404_9475.N1	24-DEC-2007 03:13:33	Bright	36.000	150	44Zet Per	2.8900	28000.	72	30404	No
47	GOM_TRA_1PNPDE20071224_031546_000000342064_00290_30404_9476.N1	24-DEC-2007 03:15:46	Bright	33.500	149	45Eps Per	2.8880	30000.	67	30404	No
48	GOM_TRA_1PNPDE20071224_031744_000000402064_00290_30404_9477.N1	24-DEC-2007 03:17:44	Bright	40.000	6	13Alp Aur	0.080000	3400.0	80	30404	No
49	GOM_TRA_1PNPDE20071224_031958_000000522064_00290_30404_9478.N1	24-DEC-2007 03:19:58	Bright	52.000	160	23Gam Per	2.9300	4700.0	104	30404	No

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



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

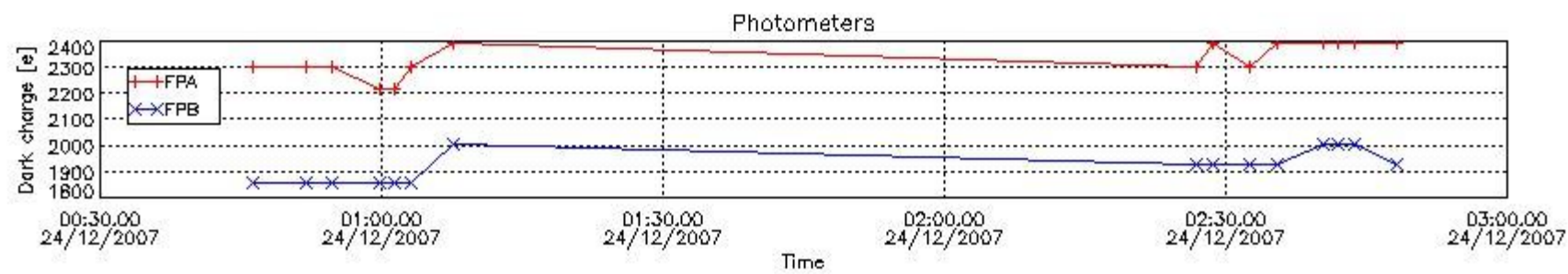
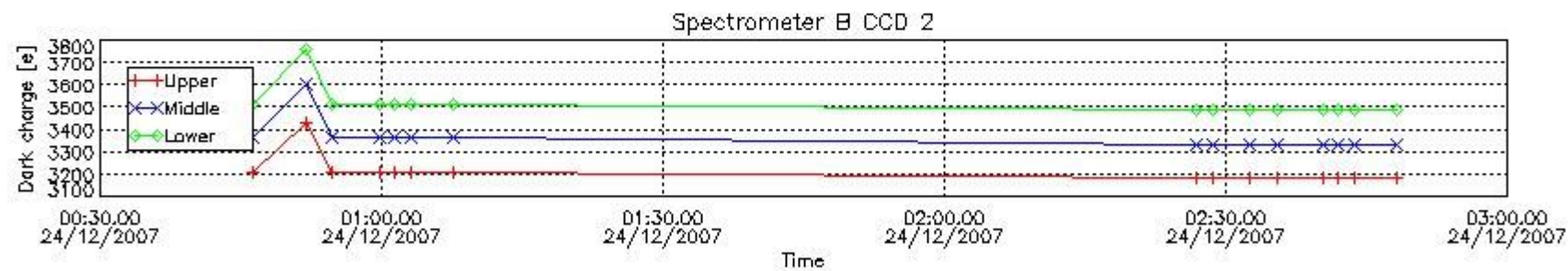
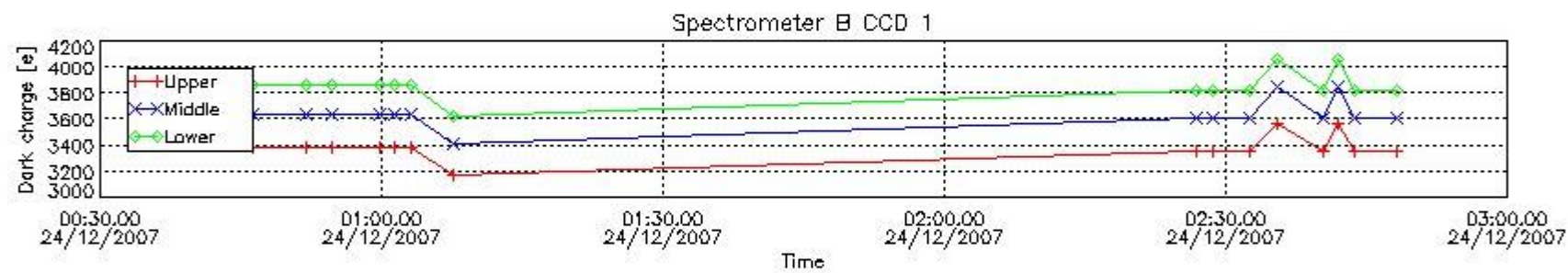
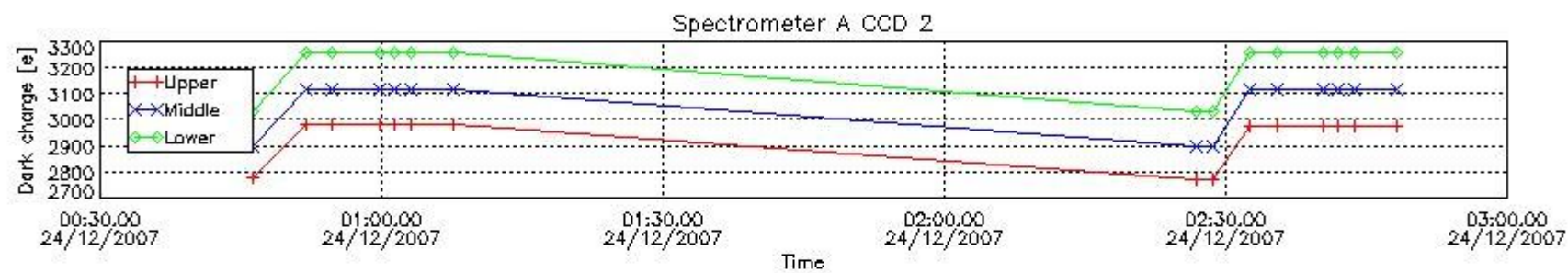
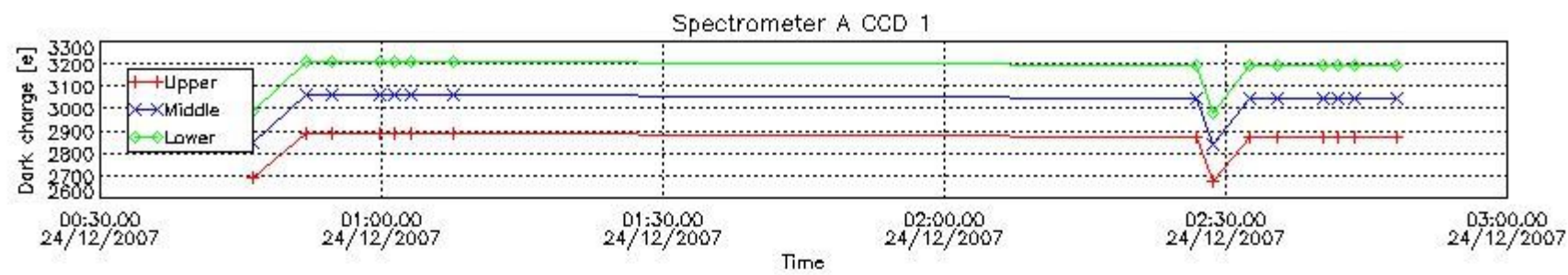
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

#### 4.1 All products used the DSA observation for the DC computation

#### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used





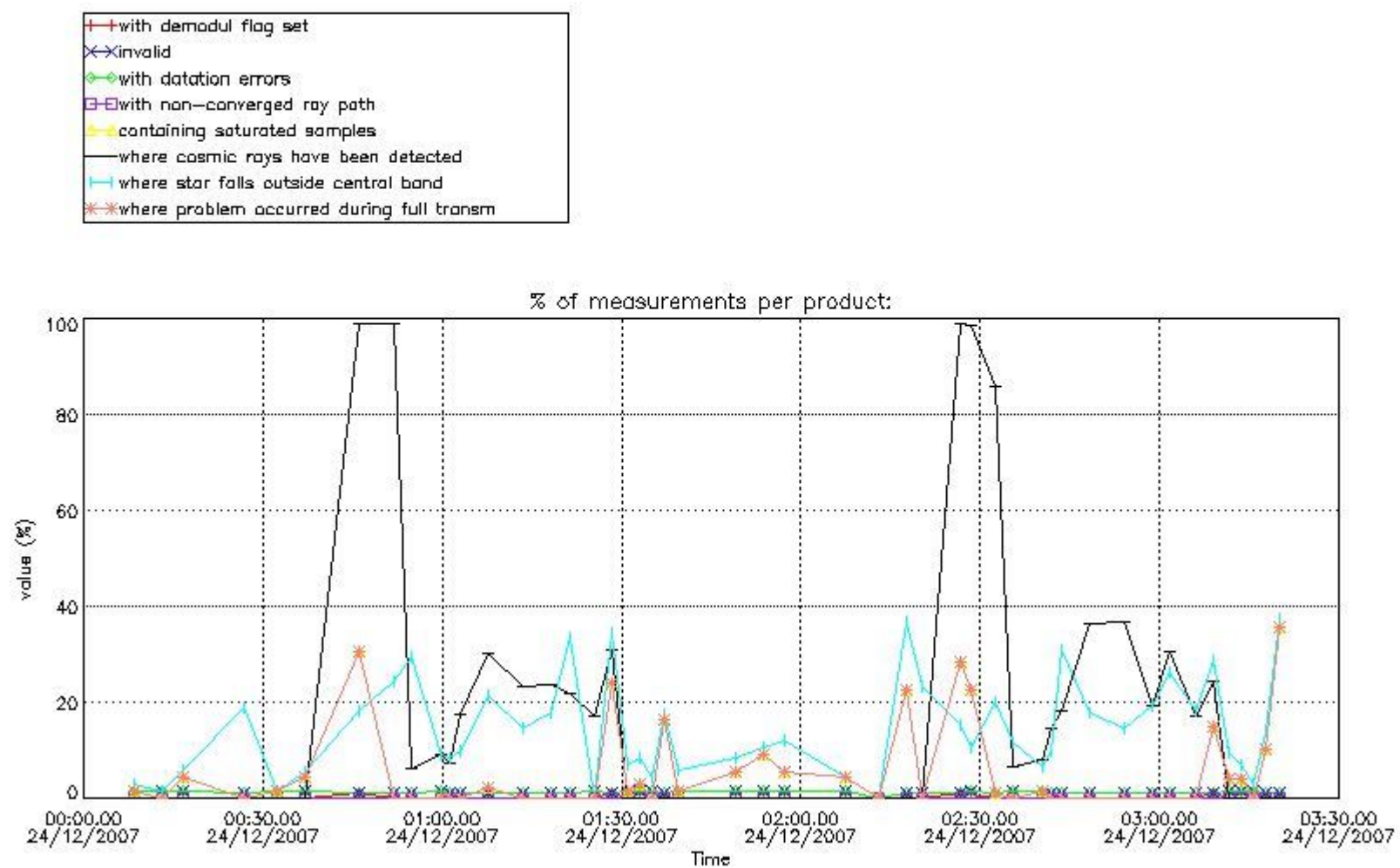
## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

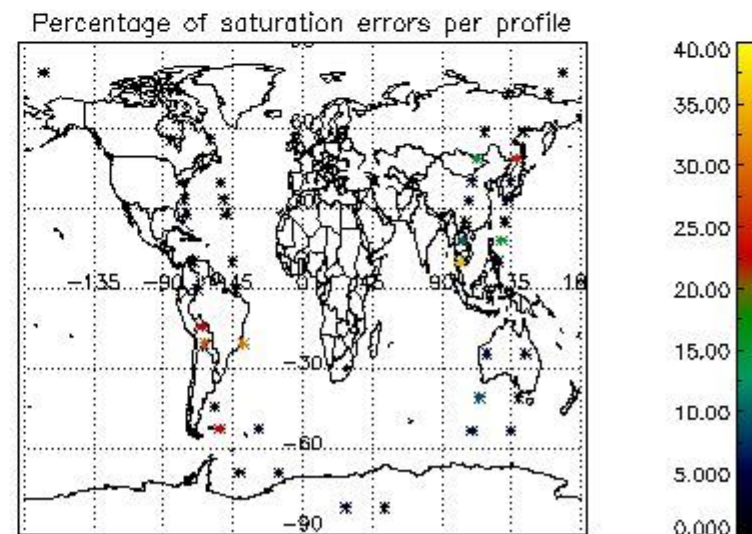
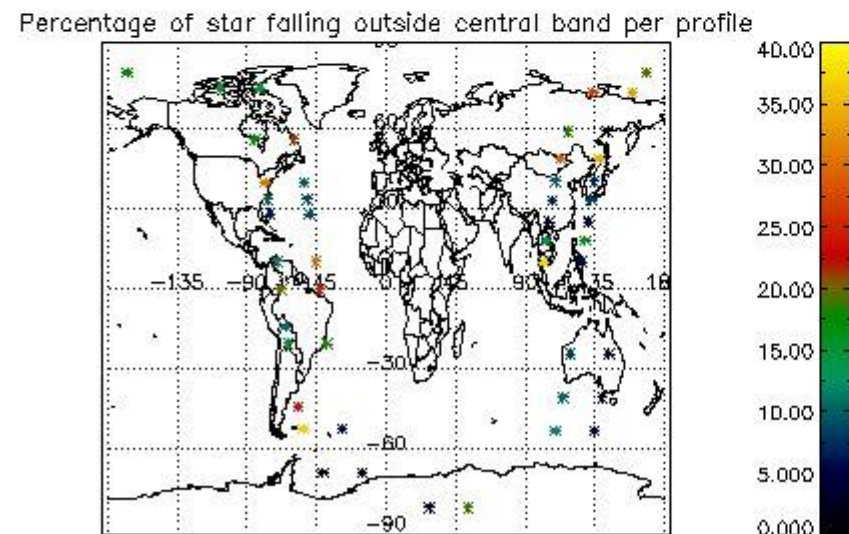
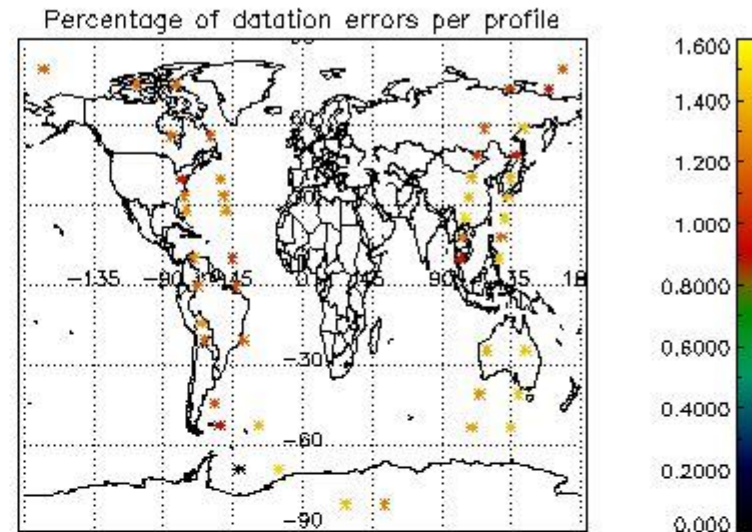
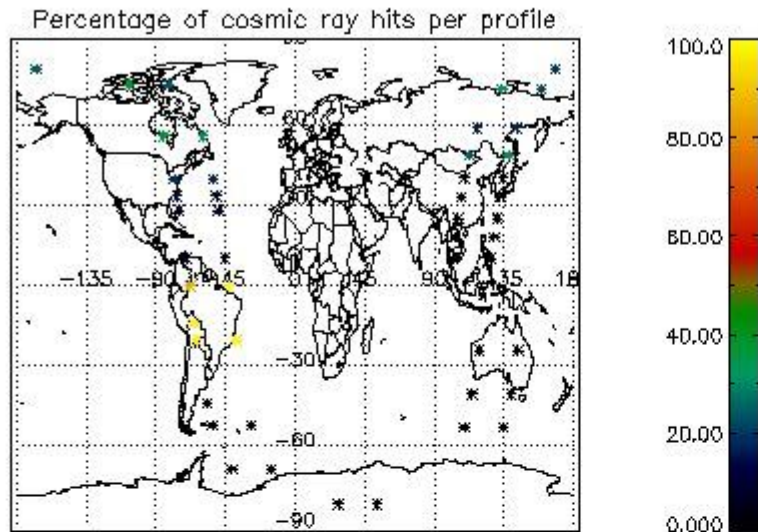
At least one measurement with demodulation flag set:	27.0833 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





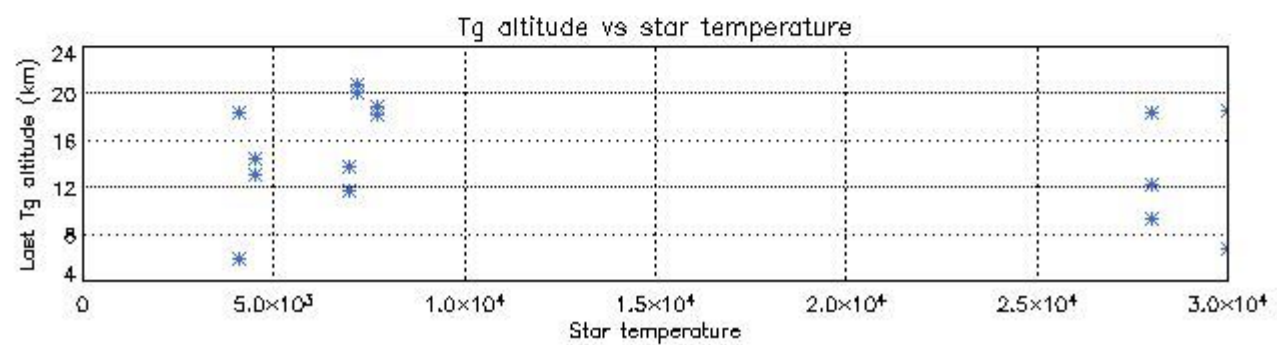
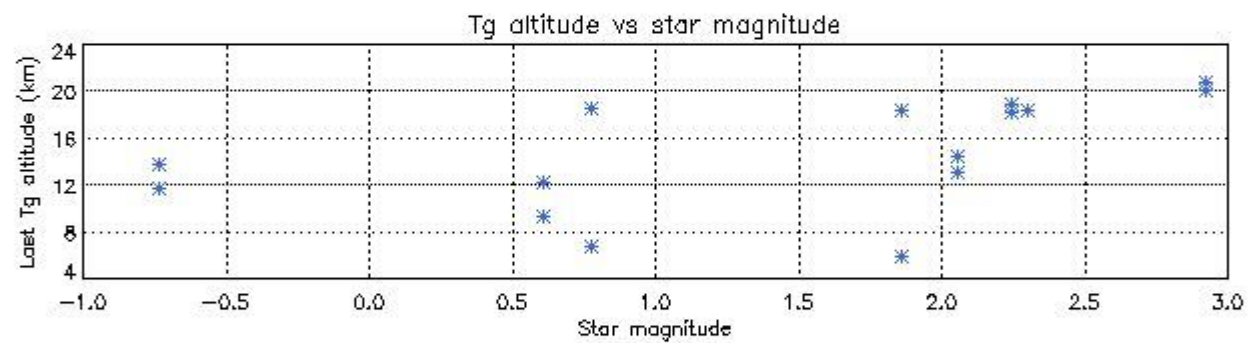
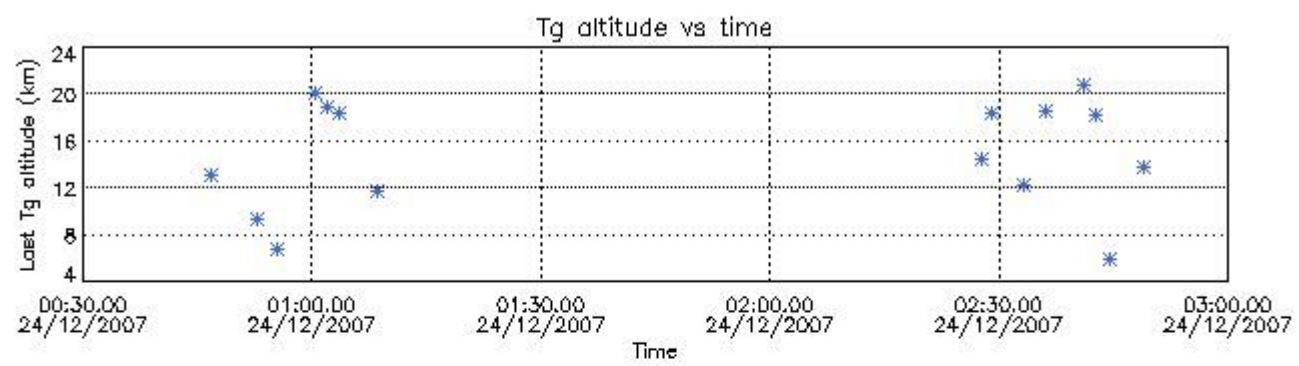
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.692	19.016	NaN
St. deviation:	4.8292	6.2498	NaN
Maximum:	20.836	27.416	NaN
Minimum:	5.8745	3.5239	NaN
Number of data:	15.000	23.000	NaN

### 6.2 Plot for DARK limb products

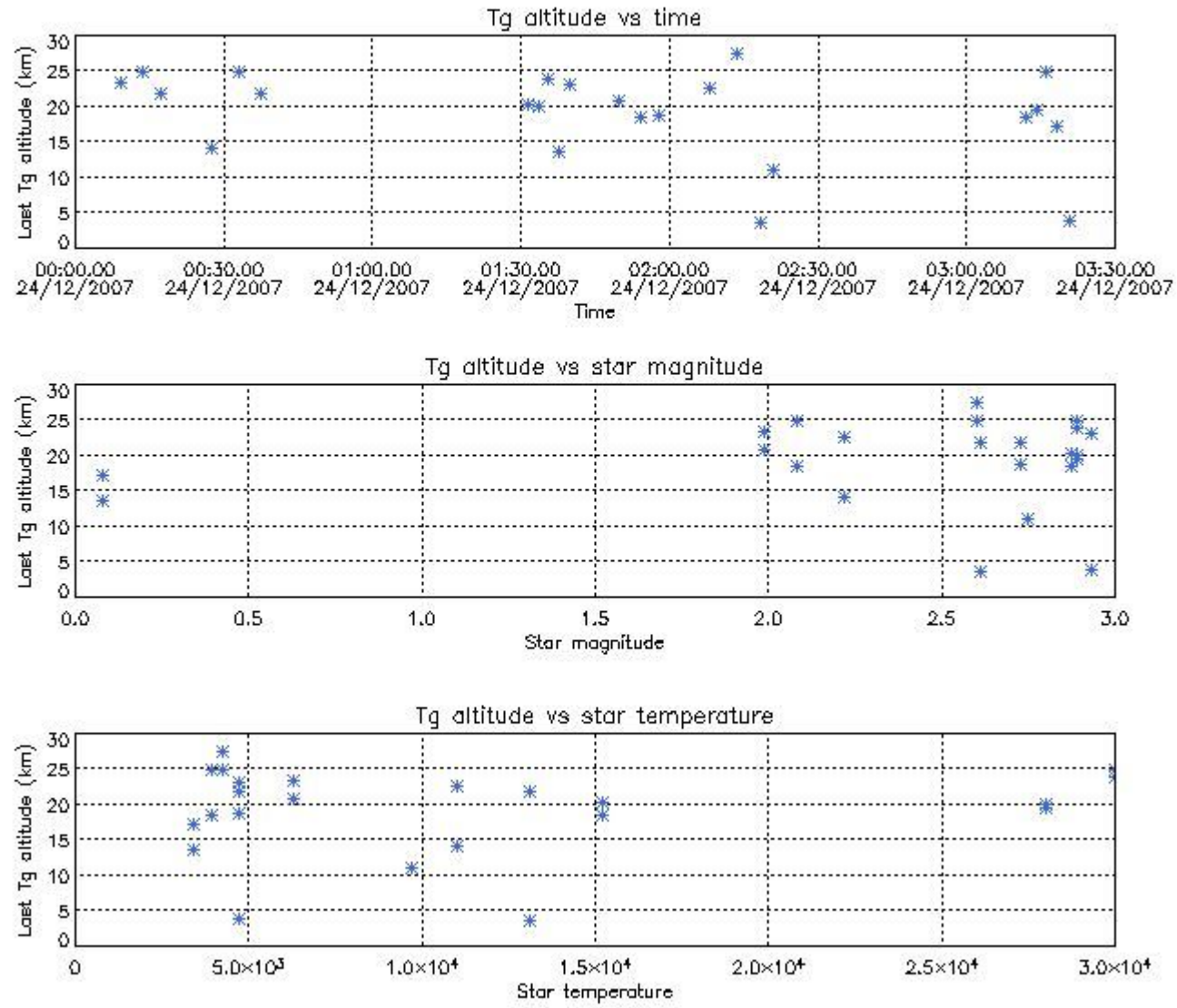
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

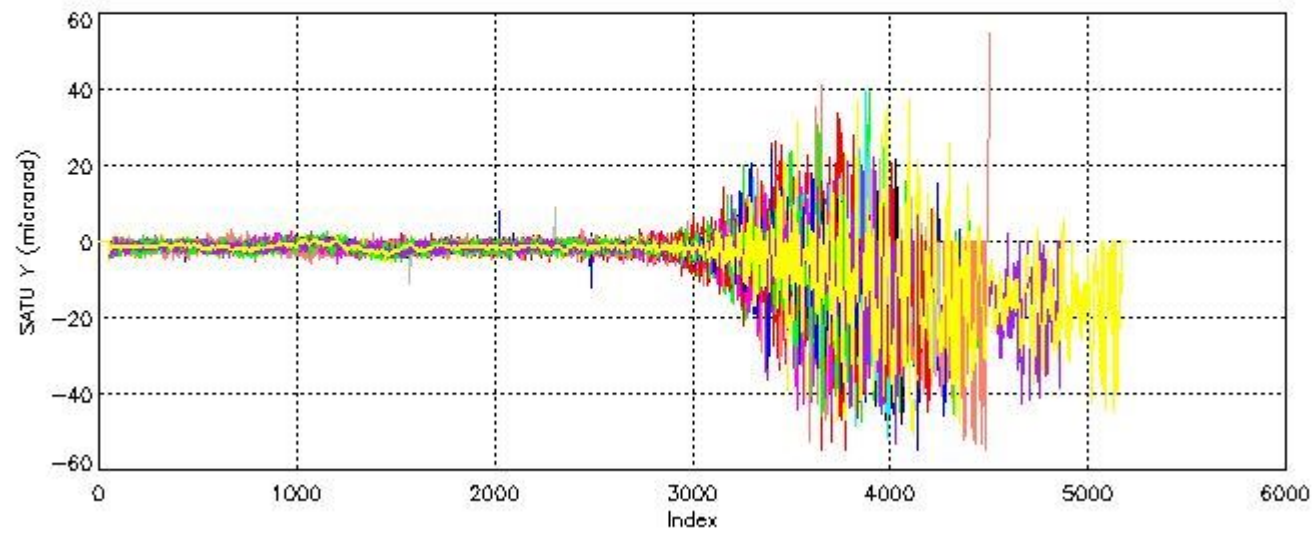
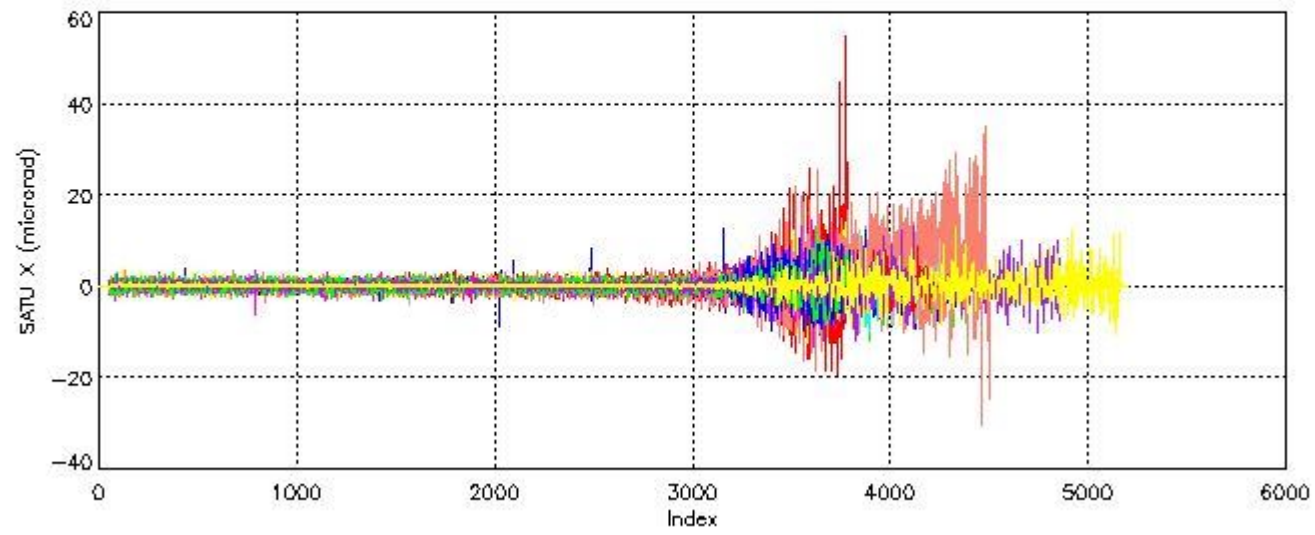


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.12736	-1.2873	-0.0094124	-1.2915
St. deviation:	0.40939	0.71776	0.88161	1.2338
Maximum:	3.9000	2.0000	5.5000	4.5000
Minimum:	-6.1000	-5.5000	-5.9000	-7.8000

Number of data:	13500.	13500.	18700.	18700.
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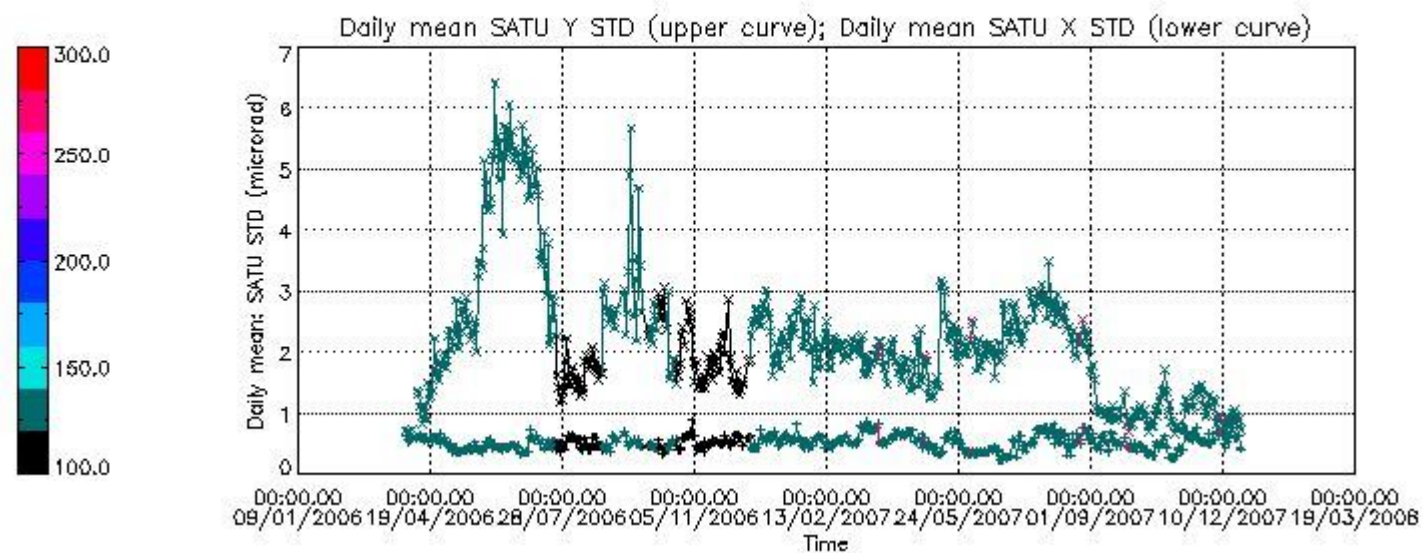
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

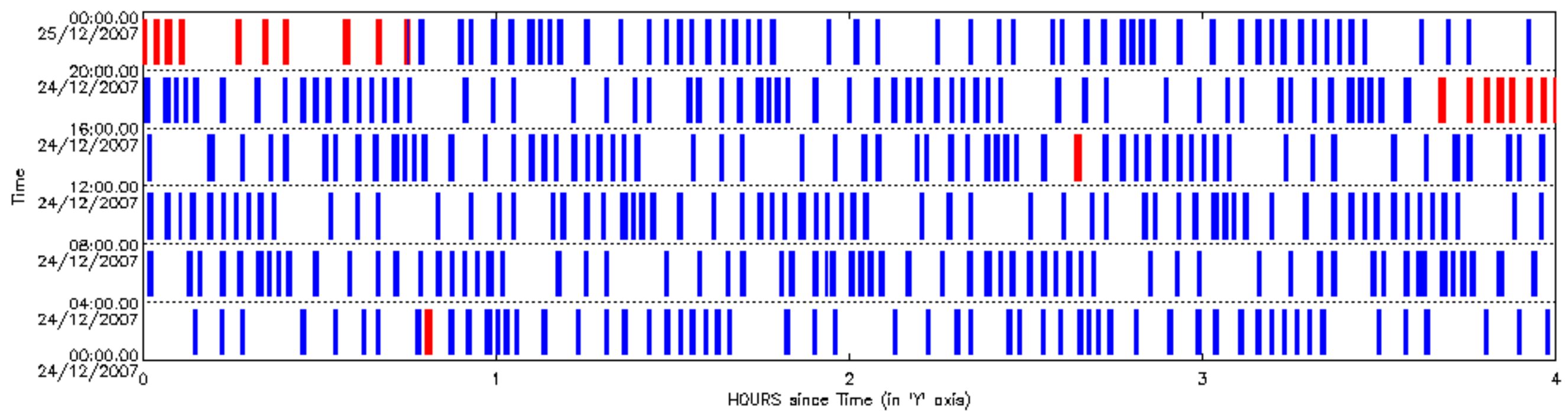


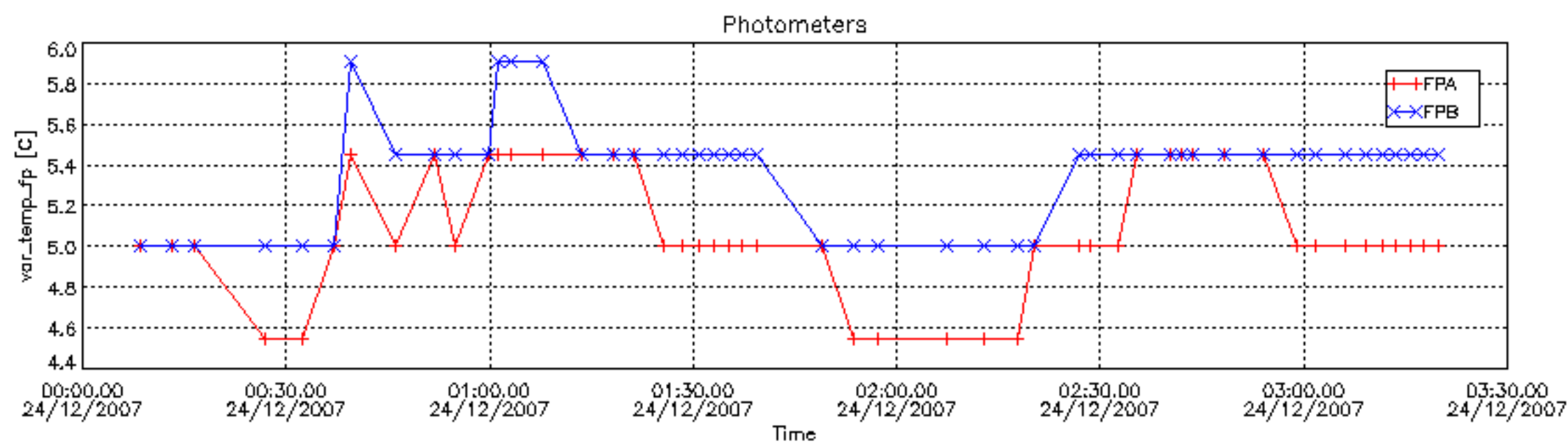
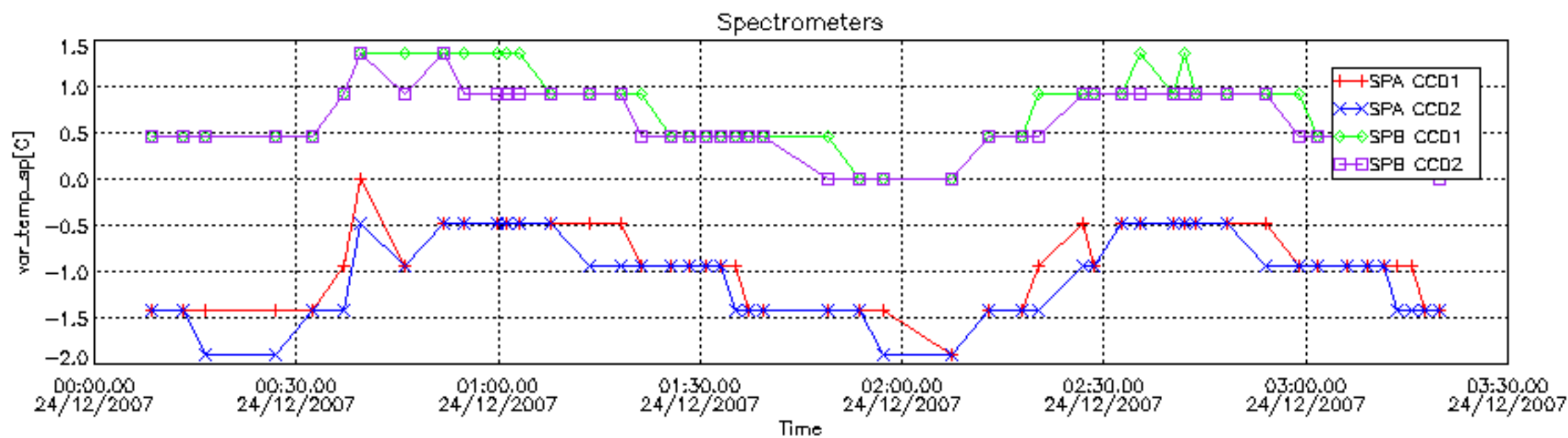
### 8. Auxiliary Data Files used for the production reported in section 2.4

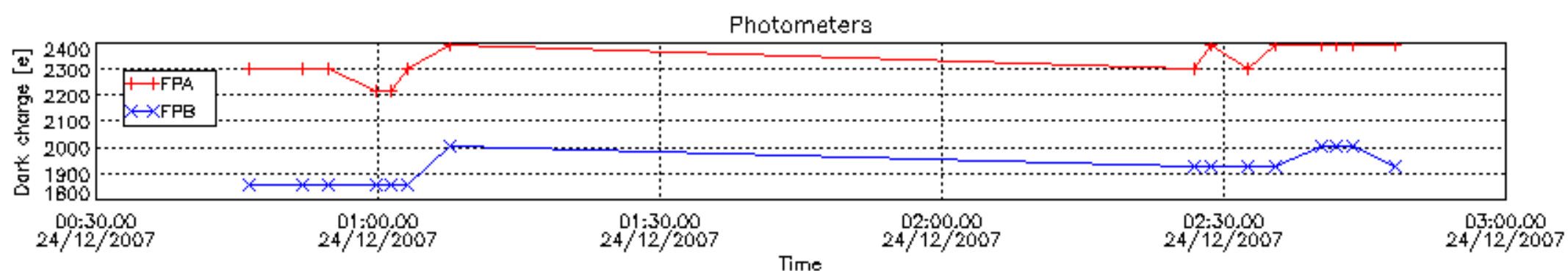
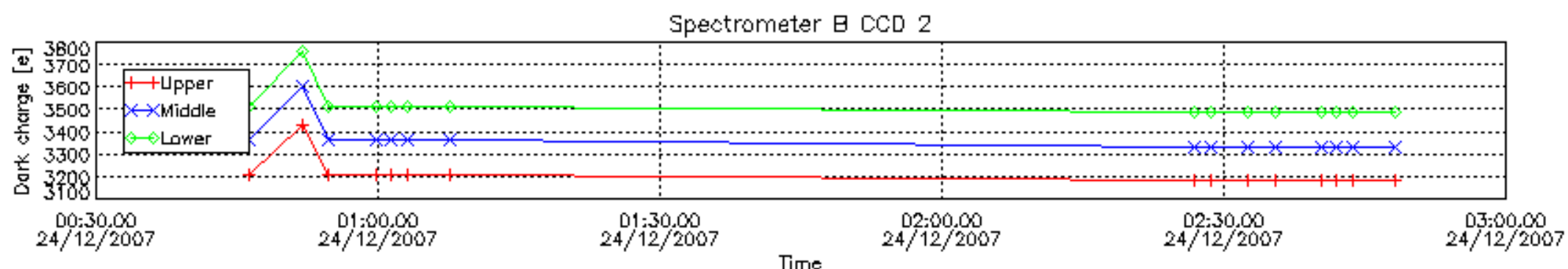
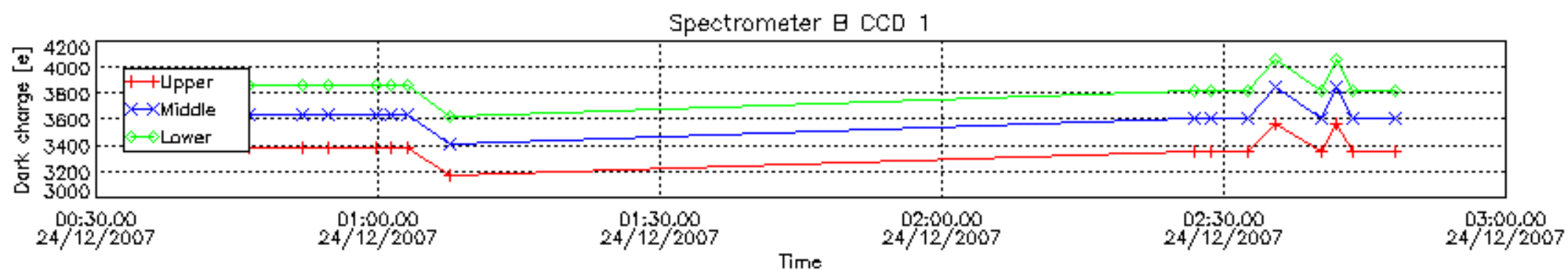
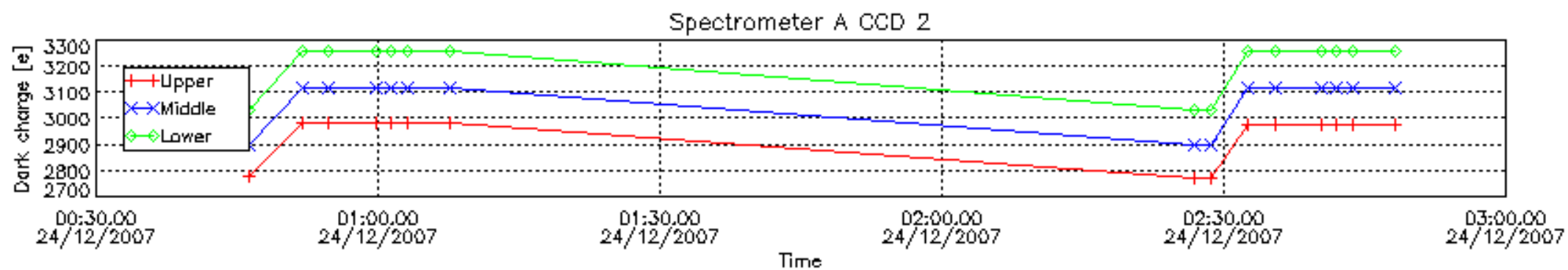
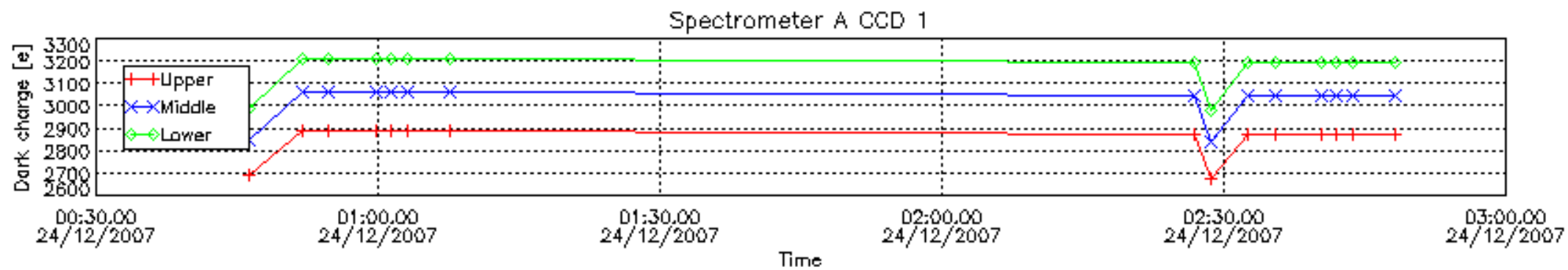
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	24-DEC-2007 00:08:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000	1	24-DEC-2007 00:08:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-DEC-2007 00:08:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-DEC-2007 00:08:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-DEC-2007 00:08:24
ECMWF_FILE	AUX_ECF_AXNECM20071223_073112_20071223_210000_20071224_090000	1	24-DEC-2007 00:08:24
OPTIONAL_ECMWF_FILE	MISSING	1	24-DEC-2007 00:08:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071223_211521_000057382064_00286_30400_4809.N1	1	24-DEC-2007 00:08:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071223_225618_000057382064_00287_30401_4810.N1	7	24-DEC-2007 00:39:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071224_003715_000054192064_00288_30402_4811.N1	30	24-DEC-2007 02:17:45





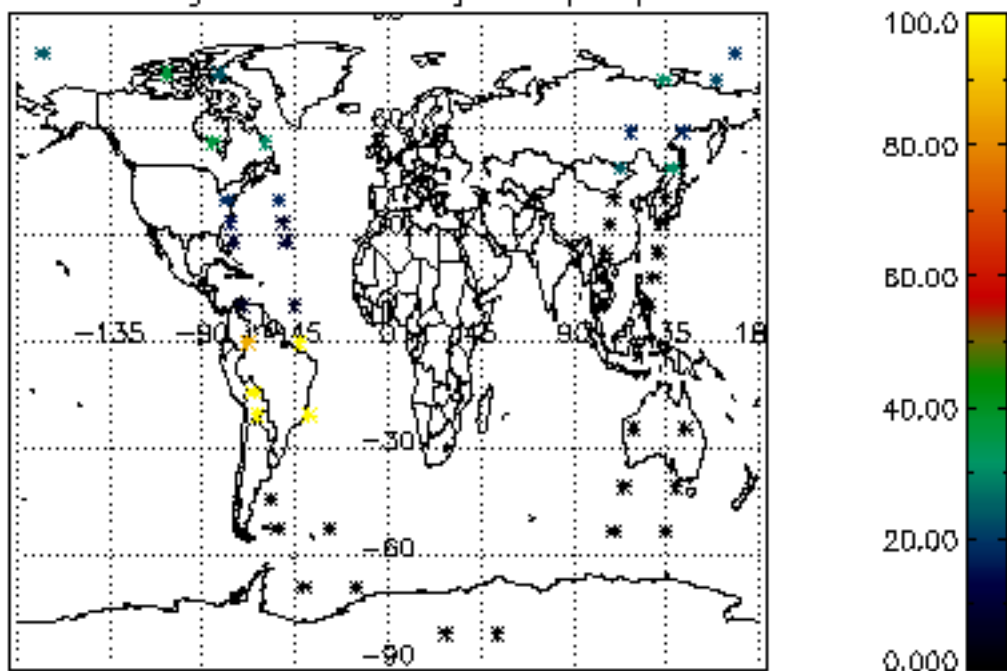




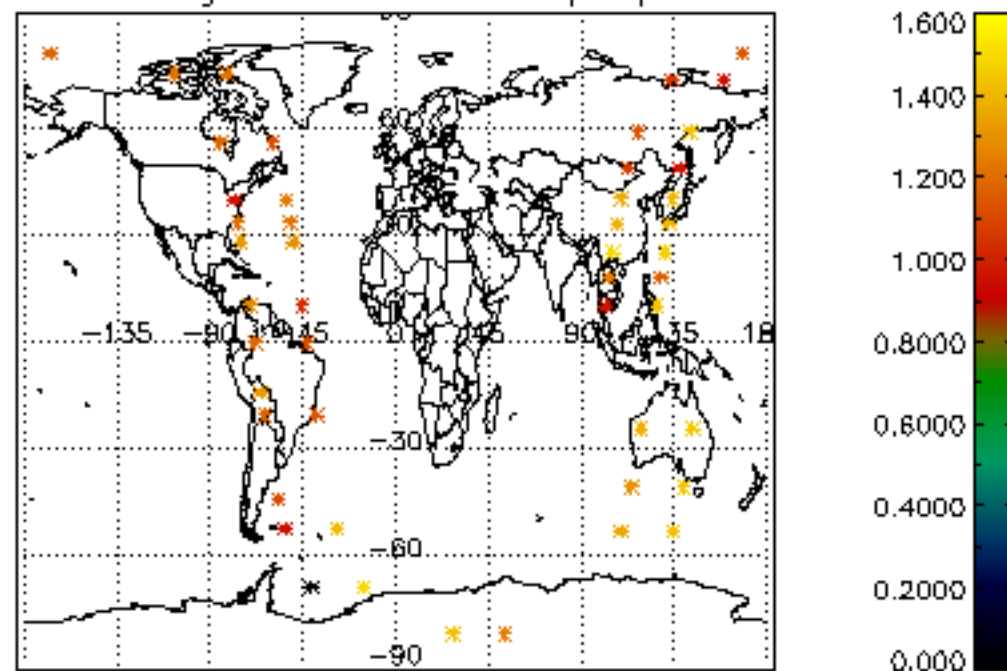




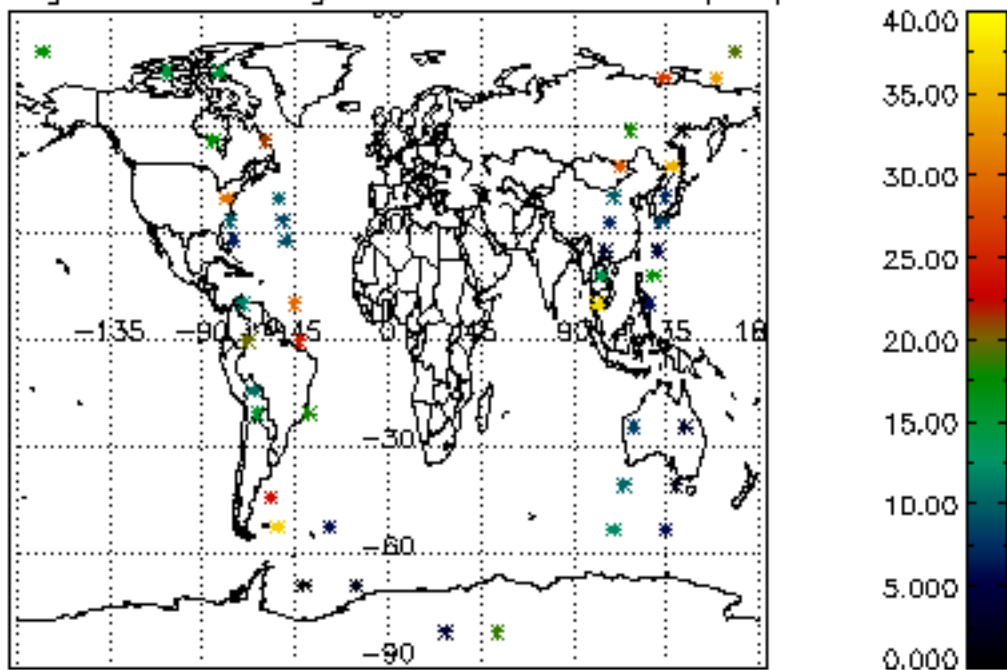
Percentage of cosmic ray hits per profile



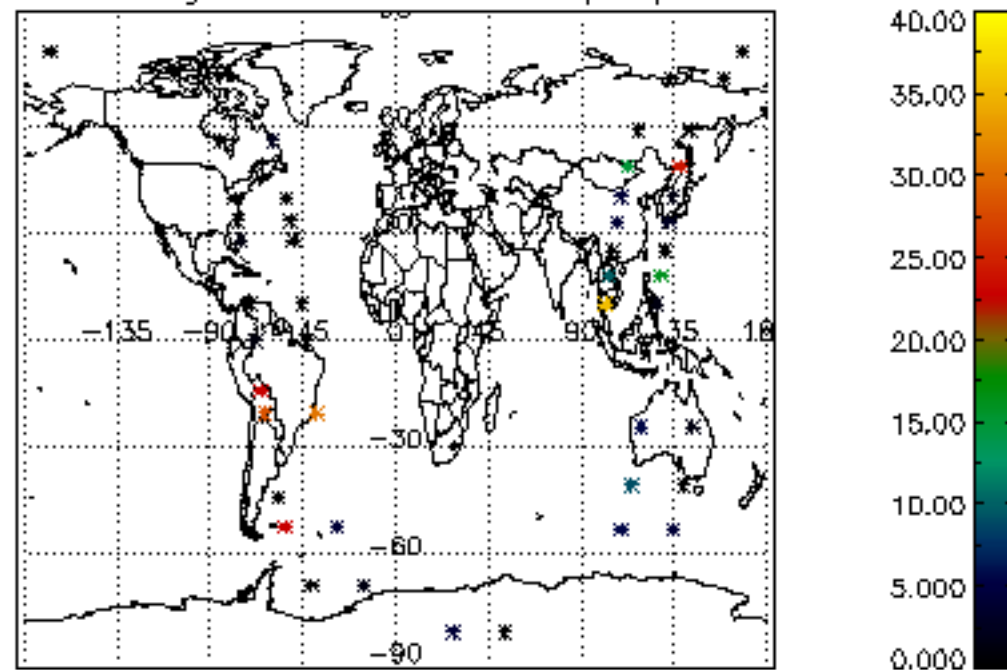
Percentage of datation errors per profile



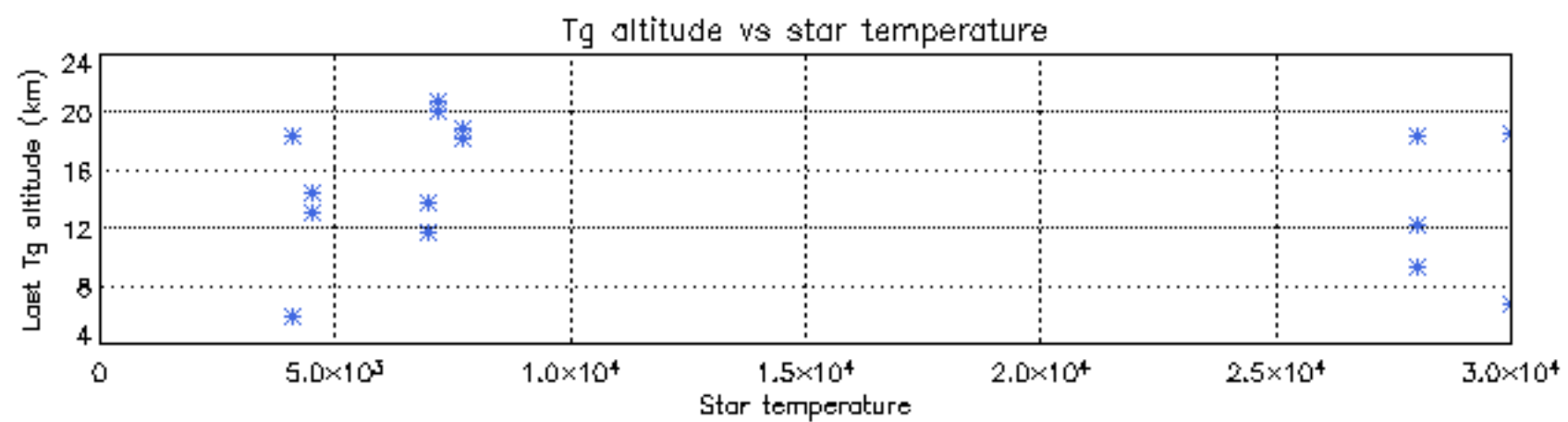
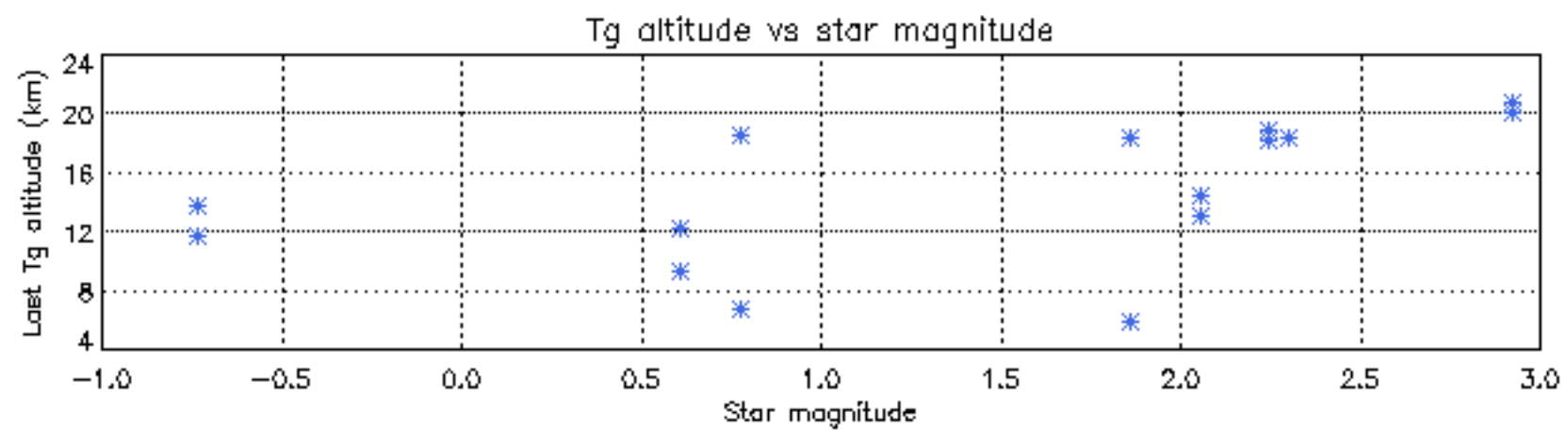
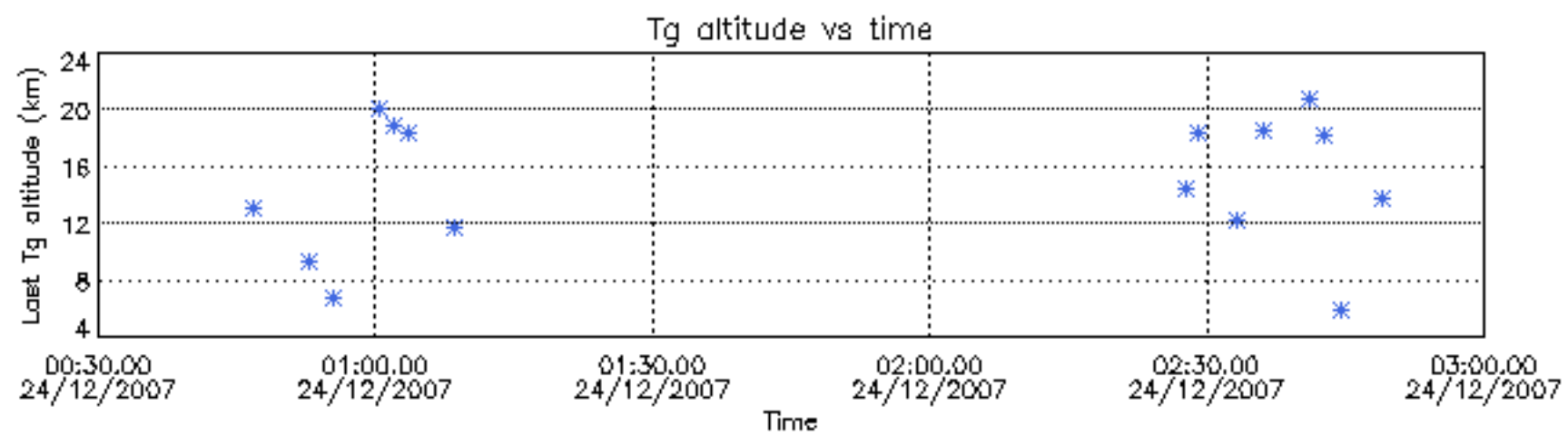
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

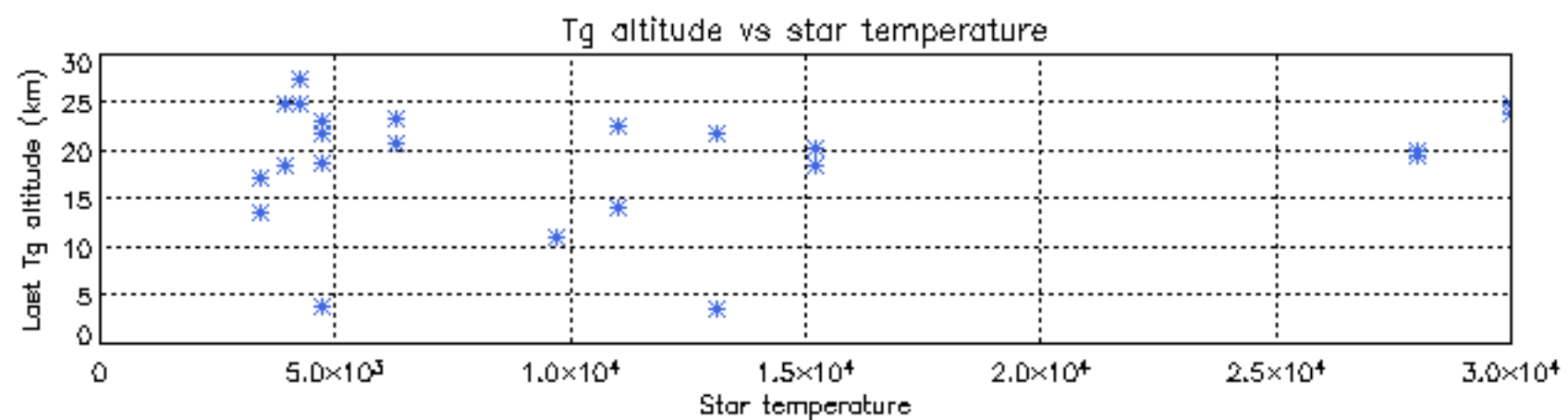
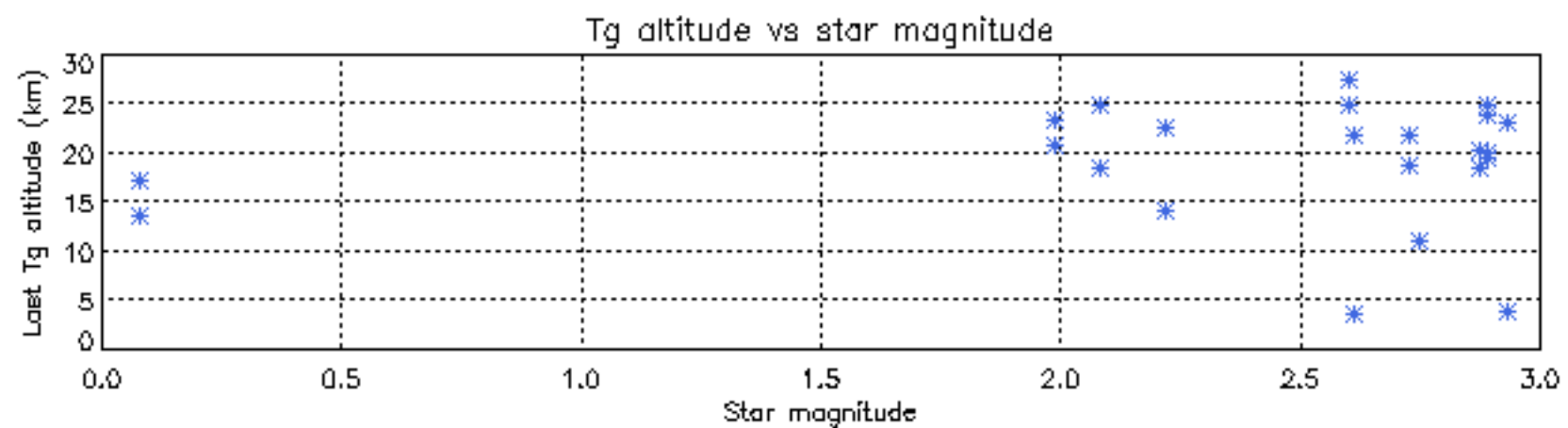
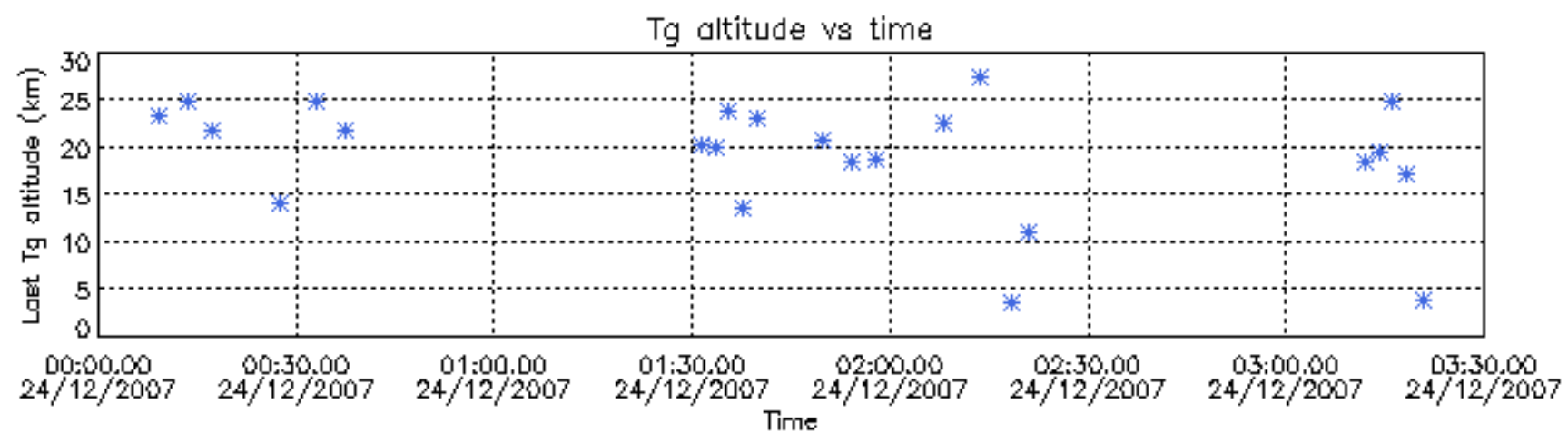


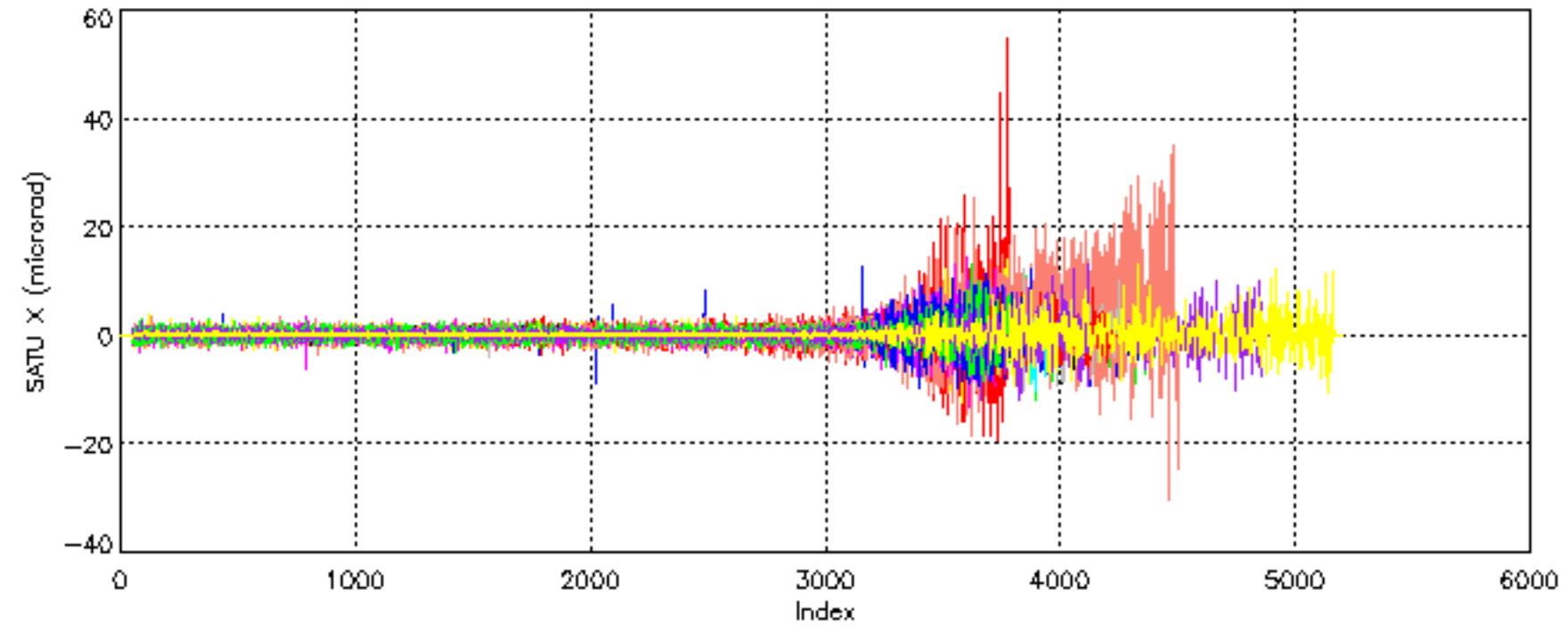
Tangent altitude at which the star is lost

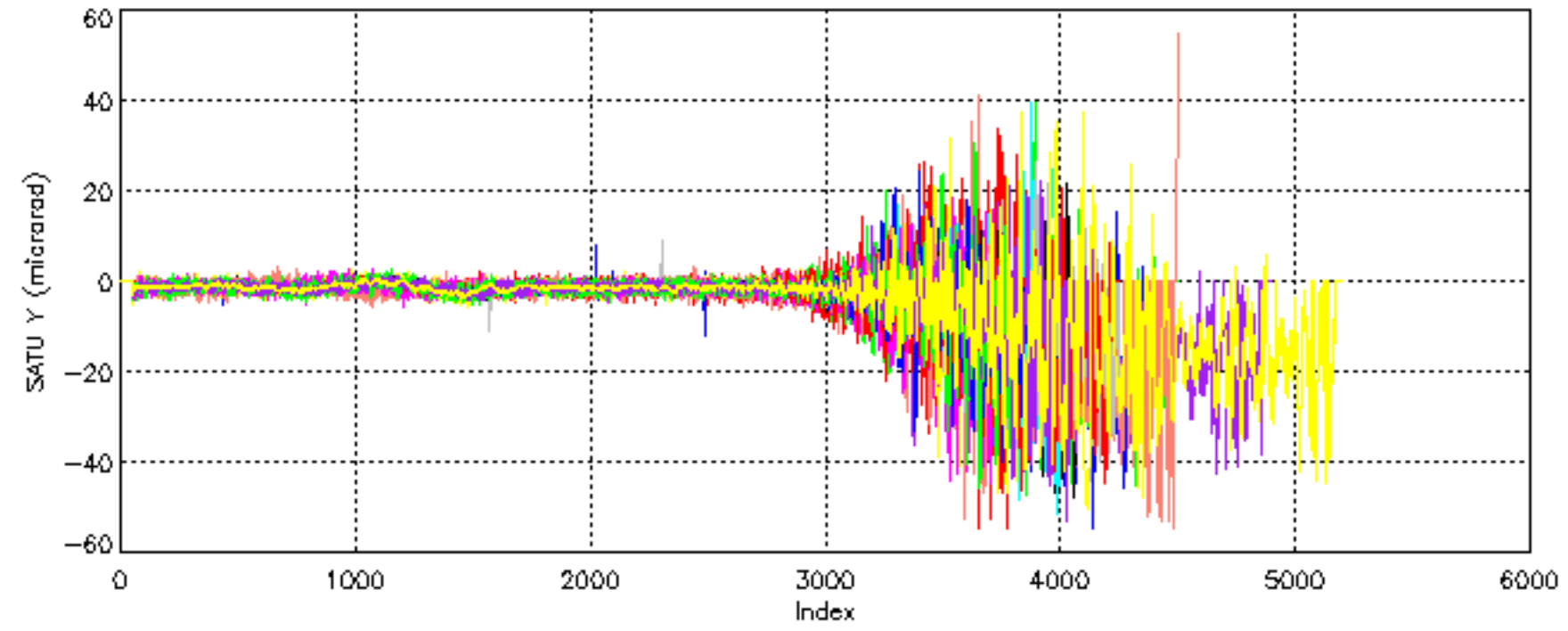




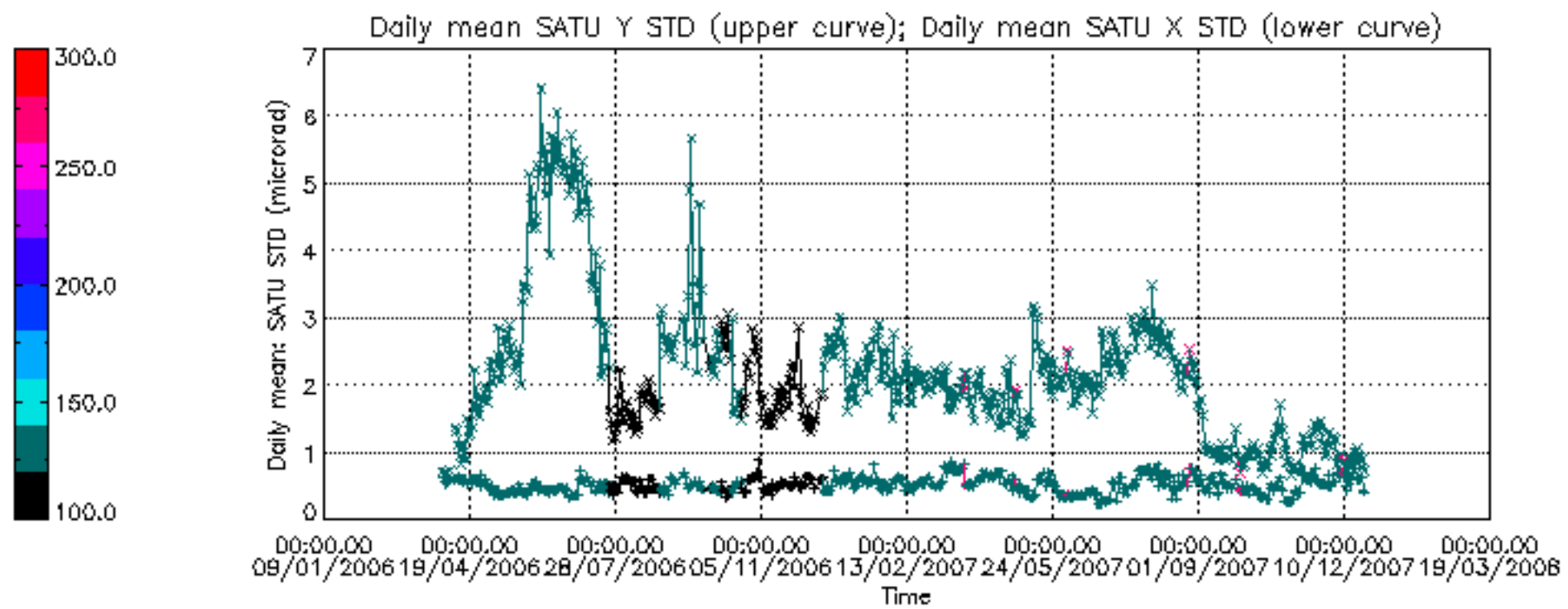
Tangent altitude at which the star is lost











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 3; -537.4; 01-DEC-2007 01:05:58; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30073  
 4; -145.2; 01-DEC-2007 01:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30073  
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 6; 83.1; 01-DEC-2007 01:16:18; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30074  
 7; 202.5; 01-DEC-2007 01:18:18; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30074  
 8; 369.6; 01-DEC-2007 01:21:05; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;30074  
 9; 481.6; 01-DEC-2007 01:22:57; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30074  
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 14; 2472.4; 01-DEC-2007 01:56:08; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30074  
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 17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074  
 18; 3421.9; 01-DEC-2007 02:11:57; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30074

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 7; -830.9; 01-DEC-2007 02:41:40; Bright; 39.5; 15; 67Alp Vir ; 0.98; 28000;occ; 79; 0;30074  
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 13; 83.9; 01-DEC-2007 02:56:55; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;30075  
 14; 203.0; 01-DEC-2007 02:58:54; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;30075  
 15; 370.0; 01-DEC-2007 03:01:41; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30075  
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 3; -1897.3; 01-DEC-2007 04:04:30; Bright; 53.0; 39; 85Eta UMa ; 1.85; 24000;occ; 106; 0;30075  
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 21; 2472.0; 01-DEC-2007 05:17:19; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;30076

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24; 2818.7; 01-DEC-2007 05:23:06; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;30076
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13; 85.3; 01-DEC-2007 06:18:08; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;30077
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17; 805.4; 01-DEC-2007 06:30:09; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;30077
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 5;-1391.0; 01-DEC-2007 07:34:08; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30077
 6;-1177.0; 01-DEC-2007 07:37:42; Bright; 39.0; 138; 47Eps Vir ; 2.83; 4700;occ; 78; 0;30077
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8; 3705.6; 11-DEC-2007 17:07:42; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30226
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11; 4331.6; 11-DEC-2007 17:18:09; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;30226
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13; 4710.3; 11-DEC-2007 17:24:27; Bright; 38.0; 111; 8Eta Boo ; 2.68; 6000;occ; 76; 0;30226

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 16; 5618.0; 11-DEC-2007 17:39:35; Dark ; 52.0; 106; 9Bet Crv ; 2.65; 5600;occ; 104; 0;30226  
 17; 5936.2; 11-DEC-2007 17:44:53; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;30226  
 18; 6053.8; 11-DEC-2007 17:46:51; Dark ; 41.5; 26; Gam Cru ; 1.62; 2900;occ; 83; 0;30226  
 19; 6245.5; 11-DEC-2007 17:50:02; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;30226  
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 21; 6562.8; 11-DEC-2007 17:55:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30226  
 22; 6762.7; 11-DEC-2007 17:58:40; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;30226  
 23; 6912.8; 11-DEC-2007 18:01:10; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;30226

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 23; 6763.4; 11-DEC-2007 19:39:16; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0;30227  
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 23; 4331.7; 12-DEC-2007 01:41:08; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;30231  
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11; 1247.4; 12-DEC-2007 02:30:20; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;30232  
12; 1556.9; 12-DEC-2007 02:35:29; Dark ; 44.5; 101; 11Alp Lep ; 2.58; 7000;occ; 89; 0;30232  
13; 1748.3; 12-DEC-2007 02:38:41; Dark ; 48.0; 7; 19Bet Ori ; 0.10; 14000;occ; 96; 0;30232  
14; 2196.8; 12-DEC-2007 02:46:09; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;30232  
15; 2318.5; 12-DEC-2007 02:48:11; Bright; 36.5; 146; 25Eta Tau ; 2.87; 15200;occ; 73; 0;30232  
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17; 2591.2; 12-DEC-2007 02:52:44; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;30232  
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13; 4333.0; 12-DEC-2007 21:48:21; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;30243
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3; 2196.2; 12-DEC-2007 12:49:44; Dark ; 46.0; 13; 87Alp Tau ; 0.87; 3800;occ; 92; 0;30238  
4; 2590.9; 12-DEC-2007 12:56:19; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30238  
5; 2720.1; 12-DEC-2007 12:58:28; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30238  
6; 2820.0; 12-DEC-2007 13:00:08; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;30238  
7; 3422.1; 12-DEC-2007 13:10:10; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30238  
8; 3705.6; 12-DEC-2007 13:14:54; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;30238  
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10; 4140.2; 12-DEC-2007 13:22:08; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;30238  
11; 4332.7; 12-DEC-2007 13:25:21; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;30238  
12; 4521.1; 12-DEC-2007 13:28:29; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;30238  
13; 4713.7; 12-DEC-2007 13:31:42; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;30238  
14; 5288.6; 12-DEC-2007 13:41:17; Dark ; 47.5; 15; 67Alp Vir ; 0.98; 28000;occ; 95; 0;30238  
15; 5497.3; 12-DEC-2007 13:44:45; Dark ; 42.0; 169; 46Gam Hya ; 2.99; 4700;occ; 84; 0;30238  
16; 5613.7; 12-DEC-2007 13:46:42; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;30238



17; 5696.3; 12-DEC-2007 13:48:04; Dark ; 39.5; 123; Iot Cen ; 2.75; 10200;occ; 79; 0;30238  
 18; 5943.1; 12-DEC-2007 13:52:11; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;30238  
 19; 6063.8; 12-DEC-2007 13:54:12; Dark ; 44.0; 20; Bet Cru ; 1.25; 30000;occ; 88; 0;30238  
 20; 6255.9; 12-DEC-2007 13:57:24; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;30238  
 21; 6472.9; 12-DEC-2007 14:01:01; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30238  
 22; 6572.0; 12-DEC-2007 14:02:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30238  
 23; 6771.8; 12-DEC-2007 14:06:00; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;30238  
 24; 6917.8; 12-DEC-2007 14:08:26; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;30238  
 25; 7285.5; 12-DEC-2007 14:14:34; Dark ; 39.5; 108; Alp Col ; 2.65; 15200;occ; 79; 0;30238  
 26; 7593.8; 12-DEC-2007 14:19:42; Dark ; 23.0; 101; 11Alp Lep ; 2.58; 7000;occ; 46; 0;30238

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 12; 4521.5; 12-DEC-2007 15:09:05; Bright; 34.5; 83; ; 2.38; 11000;occ; 69; 0;30239  
 13; 4714.0; 12-DEC-2007 15:12:18; Bright; 38.0; 111; 8Eta Boo ; 2.68; 6000;occ; 76; 0;30239  
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 16; 5614.2; 12-DEC-2007 15:27:18; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;30239  
 17; 5696.9; 12-DEC-2007 15:28:41; Dark ; 40.5; 123; Iot Cen ; 2.75; 10200;occ; 81; 0;30239  
 18; 5943.7; 12-DEC-2007 15:32:48; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;30239  
 19; 6064.1; 12-DEC-2007 15:34:48; Dark ; 46.0; 20; Bet Cru ; 1.25; 30000;occ; 92; 0;30239  
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 23; 6772.6; 12-DEC-2007 15:46:37; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;30239  
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 4; 2195.9; 12-DEC-2007 16:10:56; Dark ; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;30240  
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 7; 2590.7; 12-DEC-2007 16:17:31; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;30240  
 8; 2720.4; 12-DEC-2007 16:19:40; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30240  
 9; 2820.2; 12-DEC-2007 16:21:20; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;30240  
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 11; 3705.6; 12-DEC-2007 16:36:06; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30240  
 12; 3993.7; 12-DEC-2007 16:40:54; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;30240  
 13; 4140.2; 12-DEC-2007 16:43:20; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;30240  
 14; 4333.0; 12-DEC-2007 16:46:33; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;30240  
 15; 4521.5; 12-DEC-2007 16:49:41; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;30240  
 16; 4714.2; 12-DEC-2007 16:52:54; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;30240  
 17; 5289.8; 12-DEC-2007 17:02:30; Dark ; 49.0; 15; 67Alp Vir ; 0.98; 28000;occ; 98; 0;30240  
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 19; 5614.5; 12-DEC-2007 17:07:54; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;30240  
 20; 5697.6; 12-DEC-2007 17:09:18; Dark ; 39.5; 123; Iot Cen ; 2.75; 10200;occ; 79; 0;30240  
 21; 5944.3; 12-DEC-2007 17:13:24; Dark ; 39.5; 64; Gam Cen ; 2.20; 10600;occ; 79; 0;30240  
 22; 6064.6; 12-DEC-2007 17:15:25; Dark ; 38.5; 20; Bet Cru ; 1.25; 30000;occ; 77; 0;30240  
 23; 6257.8; 12-DEC-2007 17:18:38; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;30240  
 24; 6473.7; 12-DEC-2007 17:22:14; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;30240  
 25; 6573.7; 12-DEC-2007 17:23:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30240  
 26; 6773.3; 12-DEC-2007 17:27:13; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;30240  
 27; 6918.8; 12-DEC-2007 17:29:39; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;30240

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8; 2720.3; 12-DEC-2007 18:00:16; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;30241
9; 2820.3; 12-DEC-2007 18:01:56; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;30241
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11; 3705.6; 12-DEC-2007 18:16:42; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30241
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13; 4140.0; 12-DEC-2007 18:23:56; Bright; 37.5; 39; 85Eta UMa ; 1.85; 24000;occ; 75; 0;30241
14; 4333.1; 12-DEC-2007 18:27:09; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;30241
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17; 5290.5; 12-DEC-2007 18:43:06; Dark ; 48.0; 15; 67Alp Vir ; 0.98; 28000;occ; 96; 0;30241
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20; 5698.1; 12-DEC-2007 18:49:54; Dark ; 41.0; 123; Iot Cen ; 2.75; 10200;occ; 82; 0;30241
21; 5944.8; 12-DEC-2007 18:54:01; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;30241
22; 6065.0; 12-DEC-2007 18:56:01; Dark ; 38.5; 20; Bet Cru ; 1.25; 30000;occ; 77; 0;30241
23; 6258.6; 12-DEC-2007 18:59:15; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;30241
24; 6424.7; 12-DEC-2007 19:02:01; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30241
25; 6499.9; 12-DEC-2007 19:03:16; Dark ; 45.5; 71; Iot Car ; 2.25; 7700;occ; 91; 0;30241
26; 6574.5; 12-DEC-2007 19:04:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30241
27; 6774.0; 12-DEC-2007 19:07:50; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;30241
28; 6919.2; 12-DEC-2007 19:10:15; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;30241
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3; 1748.6; 12-DEC-2007 19:24:41; Dark ; 53.5; 7; 19Bet Ori ; 0.10; 14000;occ; 107; 0;30242
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16; 5499.9; 12-DEC-2007 20:27:12; Dark ; 42.0; 169; 46Gam Hya ; 2.99; 4700;occ; 84; 0;30242
17; 5615.2; 12-DEC-2007 20:29:07; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;30242
18; 5698.5; 12-DEC-2007 20:30:30; Dark ; 40.0; 123; Iot Cen ; 2.75; 10200;occ; 80; 0;30242
19; 5945.3; 12-DEC-2007 20:34:37; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;30242
20; 6065.3; 12-DEC-2007 20:36:37; Dark ; 40.5; 20; Bet Cru ; 1.25; 30000;occ; 81; 0;30242
21; 6259.4; 12-DEC-2007 20:39:51; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;30242
22; 6425.1; 12-DEC-2007 20:42:37; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30242
23; 6500.3; 12-DEC-2007 20:43:52; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30242
24; 6575.2; 12-DEC-2007 20:45:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30242
25; 6774.7; 12-DEC-2007 20:48:27; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;30242
26; 6919.4; 12-DEC-2007 20:50:51; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;30242
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3; -419.7; 13-DEC-2007 01:30:56; Dark ; 41.5; 54; 5The Cen ; 2.06; 4500;occ; 83; 0;30245
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5; -88.9; 13-DEC-2007 01:36:27; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;30245
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7; 226.0; 13-DEC-2007 01:41:42; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;30246
8; 390.7; 13-DEC-2007 01:44:26; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;30246
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 3;-1896.1; 13-DEC-2007 02:46:55; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;30246
 4;-1702.4; 13-DEC-2007 02:50:09; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;30246
 5;-1513.5; 13-DEC-2007 02:53:18; Bright; 53.0; 83; ; 2.38; 11000;occ; 106; 0;30246
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16; 5630.6; 15-DEC-2007 13:52:44; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;30281
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22; 6445.1; 15-DEC-2007 14:06:18; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;30281
23; 6524.9; 15-DEC-2007 14:07:38; Dark ; 48.5; 71; Iot Car ; 2.25; 7700;occ; 97; 0;30281
24; 6640.4; 15-DEC-2007 14:09:34; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;30281
25; 6872.3; 15-DEC-2007 14:13:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30281
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 21; 6341.0; 15-DEC-2007 15:45:10; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30282  
 22; 6445.6; 15-DEC-2007 15:46:55; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30282  
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 13; 4337.1; 15-DEC-2007 18:32:58; Bright; 54.0; 180; 27Gam Boo ; 3.04; 8000;occ; 108; 0;30284

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 11; 4342.0; 19-DEC-2007 13:05:24; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;30338  
 12; 4538.7; 19-DEC-2007 13:08:40; Bright; 55.0; 83; ; 2.38; 11000;occ; 110; 0;30338  
 13; 4706.0; 19-DEC-2007 13:11:28; Bright; 40.5; 3; 16Alp Boo ;-0.05; 4250;occ; 81; 0;30338  
 14; 5267.3; 19-DEC-2007 13:20:49; Bright; 53.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 106; 0;30338  
 15; 5656.2; 19-DEC-2007 13:27:18; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;30338  
 16; 5835.1; 19-DEC-2007 13:30:17; Dark ; 38.5; 95; Zet Cen ; 2.55; 26000;occ; 77; 0;30338  
 17; 6005.2; 19-DEC-2007 13:33:07; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;30338  
 18; 6176.8; 19-DEC-2007 13:35:58; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;30338  
 19; 6369.9; 19-DEC-2007 13:39:12; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30338  
 20; 6473.9; 19-DEC-2007 13:40:56; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;30338  
 21; 6560.0; 19-DEC-2007 13:42:22; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;30338  
 22; 6647.1; 19-DEC-2007 13:43:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30338  
 23; 6957.1; 19-DEC-2007 13:48:59; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;30338  
 24; 7314.2; 19-DEC-2007 13:54:56; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30338

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 4; 2188.8; 19-DEC-2007 14:10:06; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;30339  
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 7; 2589.1; 19-DEC-2007 14:16:47; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30339  
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 9; 3422.4; 19-DEC-2007 14:30:40; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30339  
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 11; 3906.0; 19-DEC-2007 14:38:43; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30339  
 12; 4342.1; 19-DEC-2007 14:46:00; Bright; 56.0; 180; 27Gam Boo ; 3.04; 8000;occ; 112; 0;30339  
 13; 4538.9; 19-DEC-2007 14:49:16; Bright; 49.5; 83; ; 2.38; 11000;occ; 99; 0;30339  
 14; 4706.4; 19-DEC-2007 14:52:04; Bright; 39.5; 3; 16Alp Boo ; -0.05; 4250;occ; 79; 0;30339  
 15; 5267.8; 19-DEC-2007 15:01:25; Bright; 35.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 71; 0;30339  
 16; 5656.7; 19-DEC-2007 15:07:54; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;30339  
 17; 5835.5; 19-DEC-2007 15:10:53; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30339  
 18; 6005.8; 19-DEC-2007 15:13:43; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;30339  
 19; 6177.2; 19-DEC-2007 15:16:35; Dark ; 38.5; 12; Alp1Cru ; 0.77; 30000;occ; 77; 0;30339  
 20; 6370.4; 19-DEC-2007 15:19:48; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;30339  
 21; 6474.4; 19-DEC-2007 15:21:32; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;30339  
 22; 6560.6; 19-DEC-2007 15:22:58; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30339  
 23; 6647.9; 19-DEC-2007 15:24:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30339  
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 25; 7314.4; 19-DEC-2007 15:35:32; Dark ; 41.5; 108; Alp Col ; 2.65; 15200;occ; 83; 0;30339

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1; 1305.4; 19-DEC-2007 15:35:59; Dark ; 42.0; 108; Alp Col ; 2.65; 15200;occ; 84; 54;30340  
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 4; 2020.5; 19-DEC-2007 15:47:54; Dark ; 45.0; 27; 24Gam Ori ; 1.64; 26000;occ; 90; 0;30340  
 5; 2188.7; 19-DEC-2007 15:50:42; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;30340  
 6; 2326.2; 19-DEC-2007 15:53:00; Bright; 37.0; 146; 25Eta Tau ; 2.87; 15200;occ; 74; 0;30340  
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 8; 2589.0; 19-DEC-2007 15:57:22; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;30340  
 9; 2722.0; 19-DEC-2007 15:59:35; Bright; 52.0; 175; 39Del Per ; 3.01; 19400;occ; 104; 0;30340  
 10; 3422.5; 19-DEC-2007 16:11:16; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30340  
 11; 3703.7; 19-DEC-2007 16:15:57; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30340  
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 13; 4342.3; 19-DEC-2007 16:26:36; Bright; 56.0; 180; 27Gam Boo ; 3.04; 8000;occ; 112; 0;30340  
 14; 4539.1; 19-DEC-2007 16:29:52; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;30340  
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 16; 5268.1; 19-DEC-2007 16:42:01; Bright; 53.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 106; 0;30340  
 17; 5657.2; 19-DEC-2007 16:48:31; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;30340  
 18; 5836.0; 19-DEC-2007 16:51:29; Dark ; 38.5; 95; Zet Cen ; 2.55; 26000;occ; 77; 0;30340  
 19; 6006.6; 19-DEC-2007 16:54:20; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;30340  
 20; 6177.7; 19-DEC-2007 16:57:11; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30340  
 21; 6371.1; 19-DEC-2007 17:00:25; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;30340  
 22; 6475.1; 19-DEC-2007 17:02:09; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30340  
 23; 6561.3; 19-DEC-2007 17:03:35; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30340  
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 25; 6957.9; 19-DEC-2007 17:10:11; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;30340

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 3; 1752.5; 19-DEC-2007 17:24:02; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;30341  
 4; 2020.3; 19-DEC-2007 17:28:30; Dark ; 45.0; 27; 24Gam Ori ; 1.64; 26000;occ; 90; 0;30341  
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 7; 2453.7; 19-DEC-2007 17:35:43; Bright; 35.0; 150; 44Zet Per ; 2.89; 28000;occ; 70; 0;30341  
 8; 2588.9; 19-DEC-2007 17:37:58; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;30341  
 9; 2722.1; 19-DEC-2007 17:40:12; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30341  
 10; 3422.4; 19-DEC-2007 17:51:52; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30341  
 11; 3703.6; 19-DEC-2007 17:56:33; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30341  
 12; 3906.2; 19-DEC-2007 17:59:56; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30341  
 13; 4342.2; 19-DEC-2007 18:07:12; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;30341  
 14; 4539.2; 19-DEC-2007 18:10:29; Bright; 55.0; 83; ; 2.38; 11000;occ; 110; 0;30341  
 15; 4707.0; 19-DEC-2007 18:13:16; Bright; 39.5; 3; 16Alp Boo ; -0.05; 4250;occ; 79; 0;30341

16; 5268.4; 19-DEC-2007 18:22:38; Bright; 53.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 106; 0;30341  
 17; 5657.6; 19-DEC-2007 18:29:07; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;30341  
 18; 5836.4; 19-DEC-2007 18:32:06; Dark ; 38.5; 95; Zet Cen ; 2.55; 26000;occ; 77; 0;30341  
 19; 6007.2; 19-DEC-2007 18:34:57; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;30341  
 20; 6178.2; 19-DEC-2007 18:37:48; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;30341  
 21; 6371.5; 19-DEC-2007 18:41:01; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30341  
 22; 6475.5; 19-DEC-2007 18:42:45; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;30341  
 23; 6561.9; 19-DEC-2007 18:44:11; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30341  
 24; 6649.4; 19-DEC-2007 18:45:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30341  
 25; 6958.2; 19-DEC-2007 18:50:48; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;30341

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 3; 1572.0; 19-DEC-2007 19:01:38; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;30342  
 4; 1752.5; 19-DEC-2007 19:04:38; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30342  
 5; 1897.8; 19-DEC-2007 19:07:03; Dark ; 29.0; 72; 34Del Ori ; 2.25; 30000;occ; 58; 0;30342  
 6; 2020.2; 19-DEC-2007 19:09:06; Dark ; 48.0; 27; 24Gam Ori ; 1.64; 26000;occ; 96; 0;30342  
 7; 2188.7; 19-DEC-2007 19:11:54; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;30342  
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 12; 3422.5; 19-DEC-2007 19:32:28; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30342  
 13; 3703.6; 19-DEC-2007 19:37:09; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;30342  
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 15; 4342.3; 19-DEC-2007 19:47:48; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;30342  
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 17; 4707.1; 19-DEC-2007 19:53:53; Bright; 41.5; 3; 16Alp Boo ; -0.05; 4250;occ; 83; 0;30342  
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 19; 5658.1; 19-DEC-2007 20:09:44; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;30342  
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 22; 6178.5; 19-DEC-2007 20:18:24; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;30342  
 23; 6371.9; 19-DEC-2007 20:21:37; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30342  
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 25; 6562.4; 19-DEC-2007 20:24:48; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;30342  
 26; 6650.0; 19-DEC-2007 20:26:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30342  
 27; 6958.5; 19-DEC-2007 20:31:24; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;30342

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 7; 528.2; 20-DEC-2007 01:26:37; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30346  
 8; 616.2; 20-DEC-2007 01:28:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30346  
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 13; 1897.5; 20-DEC-2007 01:49:27; Dark ; 44.0; 72; 34Del Ori ; 2.25; 30000;occ; 88; 0;30346  
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 24; 4411.1; 27-DEC-2007 23:59:01; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30459  
 25; 4534.3; 28-DEC-2007 00:01:04; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30459  
 26; 4872.5; 28-DEC-2007 00:06:42; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30459  
 27; 5167.6; 28-DEC-2007 00:11:37; Bright; 53.5; 104; 27Bet Lib ; 2.61; 13100;occ; 107; 0;30459

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 5; 197.4; 28-DEC-2007 00:29:23; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30460  
 6; 380.8; 28-DEC-2007 00:32:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30460  
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 11; 1307.3; 28-DEC-2007 00:47:53; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30460  
 12; 1588.6; 28-DEC-2007 00:52:34; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;30460  
 13; 1762.1; 28-DEC-2007 00:55:27; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;30460  
 14; 1879.1; 28-DEC-2007 00:57:24; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;30460  
 15; 2012.8; 28-DEC-2007 00:59:38; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;30460  
 16; 2193.1; 28-DEC-2007 01:02:38; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;30460  
 17; 2404.6; 28-DEC-2007 01:06:10; Bright; 39.5; 28; 12Bet Tau ; 1.65; 15200;occ; 79; 0;30460  
 18; 2600.6; 28-DEC-2007 01:09:26; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;30460  
 19; 2700.3; 28-DEC-2007 01:11:06; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30460  
 20; 2783.8; 28-DEC-2007 01:12:29; Bright; 34.5; 35; 33Alp Per ; 1.79; 6250;occ; 69; 0;30460  
 21; 3423.0; 28-DEC-2007 01:23:08; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30460  
 22; 3696.6; 28-DEC-2007 01:27:42; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;30460  
 23; 3918.0; 28-DEC-2007 01:31:23; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30460  
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 26; 4873.0; 28-DEC-2007 01:47:18; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30460

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 4; -218.8; 28-DEC-2007 02:03:02; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;30460



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6; -19.2; 28-DEC-2007 02:06:22; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30460  
7; 197.9; 28-DEC-2007 02:09:59; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30461  
8; 381.1; 28-DEC-2007 02:13:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30461  
9; 595.7; 28-DEC-2007 02:16:37; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30461  
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12; 1307.5; 28-DEC-2007 02:28:29; Dark ; 40.5; 108; Alp Col ; 2.65; 15200;occ; 81; 0;30461  
13; 1588.8; 28-DEC-2007 02:33:10; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;30461  
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16; 2012.8; 28-DEC-2007 02:40:14; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;30461  
17; 2193.3; 28-DEC-2007 02:43:14; Dark ; 48.5; 13; 87Alp Tau ; 0.87; 3800;occ; 97; 0;30461  
18; 2404.5; 28-DEC-2007 02:46:46; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30461  
19; 2600.4; 28-DEC-2007 02:50:02; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30461  
20; 2700.2; 28-DEC-2007 02:51:41; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;30461  
21; 2784.0; 28-DEC-2007 02:53:05; Bright; 37.0; 35; 33Alp Per ; 1.79; 6250;occ; 74; 0;30461  
22; 3423.0; 28-DEC-2007 03:03:44; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30461

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3; -1624.3; 28-DEC-2007 05:00:49; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30462  
4; -1500.9; 28-DEC-2007 05:02:52; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30462  
5; -1162.3; 28-DEC-2007 05:08:31; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30462  
6; -867.2; 28-DEC-2007 05:13:26; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;30462  
7; -715.9; 28-DEC-2007 05:15:57; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;30462  
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9; -218.0; 28-DEC-2007 05:24:15; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30462  
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12; 199.0; 28-DEC-2007 05:31:12; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30463  
13; 381.7; 28-DEC-2007 05:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30463  
14; 499.7; 28-DEC-2007 05:36:13; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;30463  
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16; 697.7; 28-DEC-2007 05:39:31; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;30463  
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18; 1308.1; 28-DEC-2007 05:49:41; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30463  
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21; 1879.4; 28-DEC-2007 05:59:12; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;30463  
22; 2012.9; 28-DEC-2007 06:01:26; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;30463  
23; 2193.6; 28-DEC-2007 06:04:27; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30463  
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25; 2601.1; 28-DEC-2007 06:11:14; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30463  
26; 2700.1; 28-DEC-2007 06:12:53; Bright; 43.0; 6; 13Alp Aur ; 0.08; 3400;occ; 86; 0;30463  
27; 2784.7; 28-DEC-2007 06:14:18; Bright; 36.5; 35; 33Alp Per ; 1.79; 6250;occ; 73; 0;30463  
28; 3423.1; 28-DEC-2007 06:24:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30463

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3; 1590.5; 28-DEC-2007 20:59:47; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;30472  
4; 1763.6; 28-DEC-2007 21:02:40; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;30472  
5; 1879.4; 28-DEC-2007 21:04:36; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30472  
6; 2012.8; 28-DEC-2007 21:06:49; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30472  
7; 2194.4; 28-DEC-2007 21:09:51; Dark ; 46.0; 13; 87Alp Tau ; 0.87; 3800;occ; 92; 0;30472  
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9; 2602.6; 28-DEC-2007 21:16:39; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;30472  
10; 2698.7; 28-DEC-2007 21:18:15; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30472  
11; 3423.0; 28-DEC-2007 21:30:20; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30472  
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14; 4413.5; 28-DEC-2007 21:46:50; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30472  
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17; 5172.5; 28-DEC-2007 21:59:29; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;30472  
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27; 4876.4; 28-DEC-2007 23:35:09; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30473
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29; 5325.4; 28-DEC-2007 23:42:38; Dark ; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;30473
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4; -1500.7; 28-DEC-2007 06:43:28; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;30463
5; -1162.1; 28-DEC-2007 06:49:07; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30463
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13; 382.0; 28-DEC-2007 07:14:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30464
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