

# GOMOS Daily Report 19-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	21DEC2007 05:52:35
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (19DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

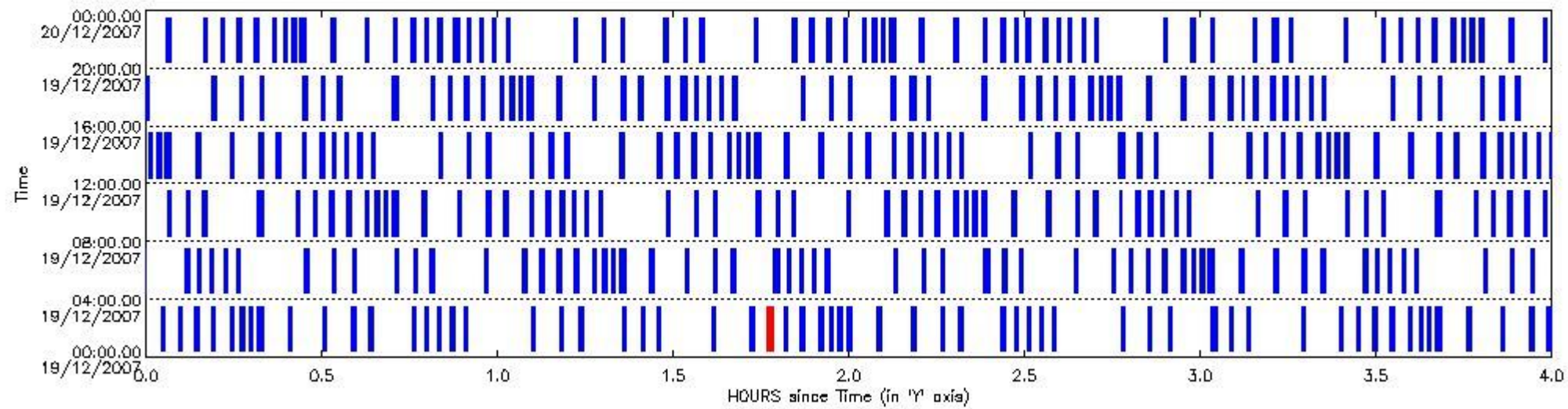
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

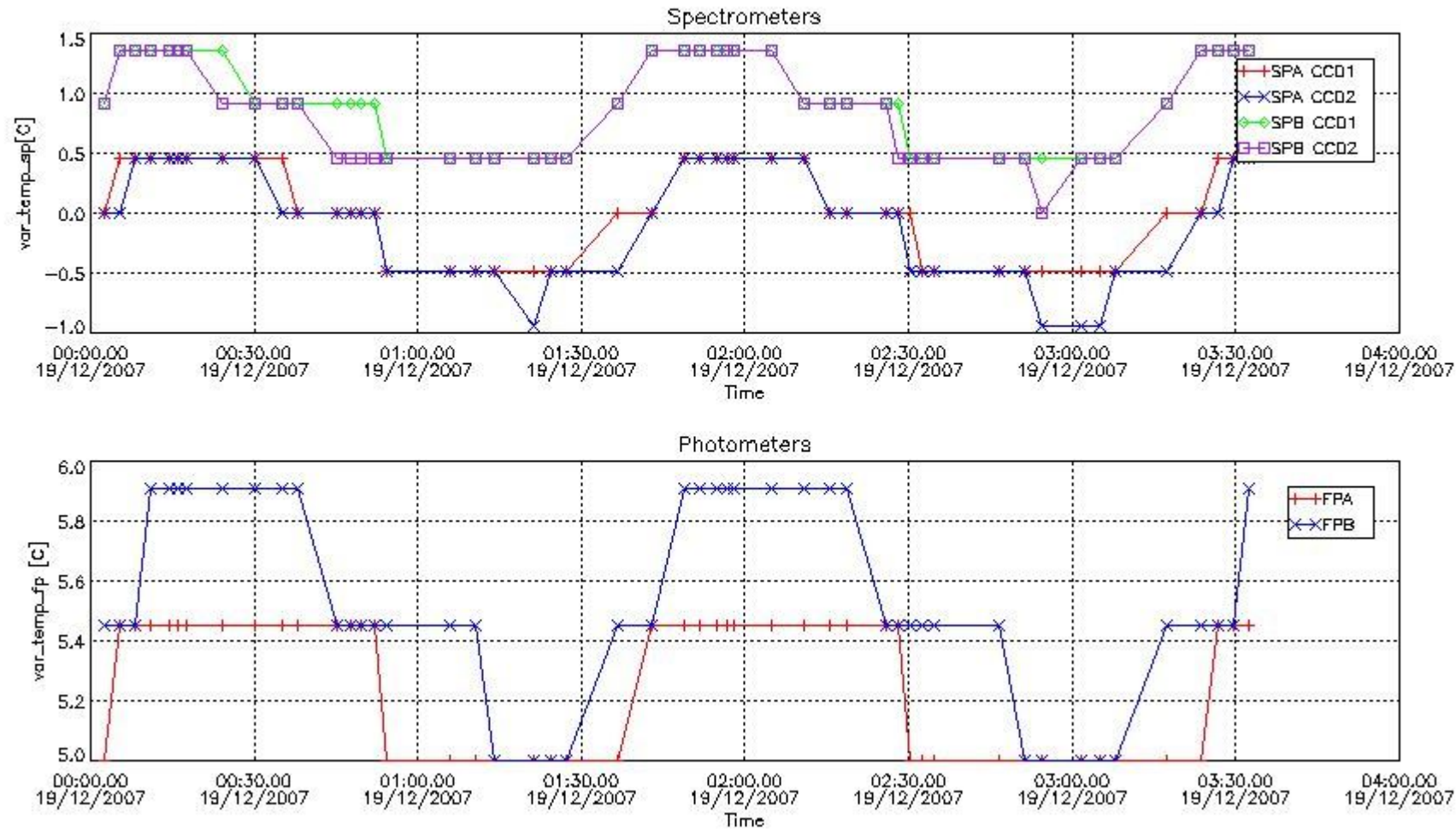
UTC start time	Star name	Star ID	Orbit
19-DEC-2007 01:46:01	ZetCen	95	30331

### 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_1PNPDE20071219_000226_000000402064_00216_30330_1599.N1	19-DEC-2007 00:02:26	Dark	40.000	54	5The Cen	2.0550	4500.0	80	30330	No
2	GOM_TRA_1PNPDE20071219_000526_000000382064_00216_30330_1600.N1	19-DEC-2007 00:05:26	Dark	38.000	95	Zet Cen	2.5450	26000.	76	30330	No
3	GOM_TRA_1PNPDE20071219_000814_000000422064_00216_30330_1601.N1	19-DEC-2007 00:08:14	Dark	42.000	64	Gam Cen	2.2000	10600.	84	30330	No
4	GOM_TRA_1PNPDE20071219_001107_000000382064_00217_30331_1602.N1	19-DEC-2007 00:11:07	Dark	38.000	12	Alp1Cru	0.77500	30000.	76	30331	No
5	GOM_TRA_1PNPDE20071219_001420_000000362064_00217_30331_1603.N1	19-DEC-2007 00:14:20	Dark	36.000	124	The Car	2.7640	30000.	72	30331	No
6	GOM_TRA_1PNPDE20071219_001604_000000392064_00217_30331_1604.N1	19-DEC-2007 00:16:04	Dark	39.000	159	Ups Car	2.9200	7200.0	78	30331	No
7	GOM_TRA_1PNPDE20071219_001729_000000402064_00217_30331_1605.N1	19-DEC-2007 00:17:29	Dark	40.000	71	lot Car	2.2460	7700.0	80	30331	No
8	GOM_TRA_1PNPDE20071219_002408_000000442064_00217_30331_1606.N1	19-DEC-2007 00:24:08	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	30331	No
9	GOM_TRA_1PNPDE20071219_003006_000000402064_00217_30331_1607.N1	19-DEC-2007 00:30:06	Straylight	40.000	108	Alp Col	2.6520	15200.	80	30331	No
10	GOM_TRA_1PNPDE20071219_003500_000000442064_00217_30331_1608.N1	19-DEC-2007 00:35:00	Straylight	44.000	101	11Alp Lep	2.5820	7000.0	88	30331	No

11	GOM_TRA_1PNPDE20071219_003802_000000492064_00217_30331_1609.N1	19-DEC-2007 00:38:02	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	30331	No
12	GOM_TRA_1PNPDE20071219_004519_000000462064_00217_30331_1610.N1	19-DEC-2007 00:45:19	Twl_and_stray	46.000	13	87Alp Tau	0.86700	3800.0	92	30331	No
13	GOM_TRA_1PNPDE20071219_004735_000000362064_00217_30331_1611.N1	19-DEC-2007 00:47:35	Bright	36.000	146	25Eta Tau	2.8730	15200.	72	30331	No
14	GOM_TRA_1PNPDE20071219_004943_000000352064_00217_30331_1612.N1	19-DEC-2007 00:49:43	Bright	34.500	150	44Zet Per	2.8900	28000.	69	30331	No
15	GOM_TRA_1PNPDE20071219_005159_000000352064_00217_30331_1613.N1	19-DEC-2007 00:51:59	Bright	35.000	149	45Eps Per	2.8880	30000.	70	30331	No
16	GOM_TRA_1PNPDE20071219_005412_000000352064_00217_30331_1614.N1	19-DEC-2007 00:54:12	Bright	34.500	175	39Del Per	3.0100	19400.	69	30331	No
17	GOM_TRA_1PNPDE20071219_010552_000000342064_00217_30331_1615.N1	19-DEC-2007 01:05:52	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	30331	No
18	GOM_TRA_1PNPDE20071219_011034_000000372064_00217_30331_1616.N1	19-DEC-2007 01:10:34	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	30331	No
19	GOM_TRA_1PNPDE20071219_011355_000000362064_00217_30331_1617.N1	19-DEC-2007 01:13:55	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	30331	No
20	GOM_TRA_1PNPDE20071219_012111_000000372064_00217_30331_1618.N1	19-DEC-2007 01:21:11	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	30331	No
21	GOM_TRA_1PNPDE20071219_012427_000000392064_00217_30331_1619.N1	19-DEC-2007 01:24:27	Bright	39.000	83		2.3780	11000.	78	30331	No
22	GOM_TRA_1PNPDE20071219_012714_000000382064_00217_30331_1620.N1	19-DEC-2007 01:27:14	Bright	38.000	3	16Alp Boo	-0.050000	4250.0	76	30331	No
23	GOM_TRA_1PNPDE20071219_013635_000000372064_00217_30331_1754.N1	19-DEC-2007 01:36:35	Bright	36.500	122	9Alp2Lib	2.7470	9700.0	73	30331	No
24	GOM_TRA_1PNPDE20071219_014303_000000452064_00217_30331_1755.N1	19-DEC-2007 01:43:03	Dark	45.000	54	5The Cen	2.0550	4500.0	90	30331	No
25	GOM_TRA_1PNPDE20071219_014850_000000422064_00217_30331_1756.N1	19-DEC-2007 01:48:50	Dark	41.500	64	Gam Cen	2.2000	10600.	83	30331	No
26	GOM_TRA_1PNPDE20071219_015144_000000412064_00218_30332_1757.N1	19-DEC-2007 01:51:44	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	30332	No
27	GOM_TRA_1PNPDE20071219_015456_000000382064_00218_30332_1758.N1	19-DEC-2007 01:54:56	Dark	38.000	124	The Car	2.7640	30000.	76	30332	No
28	GOM_TRA_1PNPDE20071219_015640_000000392064_00218_30332_1759.N1	19-DEC-2007 01:56:40	Dark	39.000	159	Ups Car	2.9200	7200.0	78	30332	No
29	GOM_TRA_1PNPDE20071219_015806_000000412064_00218_30332_1760.N1	19-DEC-2007 01:58:06	Dark	40.500	71	lot Car	2.2460	7700.0	81	30332	No
30	GOM_TRA_1PNPDE20071219_020444_000000502064_00218_30332_1761.N1	19-DEC-2007 02:04:44	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	30332	No
31	GOM_TRA_1PNPDE20071219_021042_000000412064_00218_30332_1762.N1	19-DEC-2007 02:10:42	Straylight	40.500	108	Alp Col	2.6520	15200.	81	30332	No
32	GOM_TRA_1PNPDE20071219_021536_000000462064_00218_30332_1763.N1	19-DEC-2007 02:15:36	Straylight	46.000	101	11Alp Lep	2.5820	7000.0	92	30332	No
33	GOM_TRA_1PNPDE20071219_021838_000000462064_00218_30332_1764.N1	19-DEC-2007 02:18:38	Straylight	45.500	7	19Bet Ori	0.10000	14000.	91	30332	No
34	GOM_TRA_1PNPDE20071219_022555_000000532064_00218_30332_1765.N1	19-DEC-2007 02:25:55	Twl_and_stray	53.000	13	87Alp Tau	0.86700	3800.0	106	30332	No
35	GOM_TRA_1PNPDE20071219_022811_000000352064_00218_30332_1766.N1	19-DEC-2007 02:28:11	Bright	35.000	146	25Eta Tau	2.8730	15200.	70	30332	No
36	GOM_TRA_1PNPDE20071219_023019_000000352064_00218_30332_1767.N1	19-DEC-2007 02:30:19	Bright	35.000	150	44Zet Per	2.8900	28000.	70	30332	No
37	GOM_TRA_1PNPDE20071219_023235_000000342064_00218_30332_1768.N1	19-DEC-2007 02:32:35	Bright	34.000	149	45Eps Per	2.8880	30000.	68	30332	No
38	GOM_TRA_1PNPDE20071219_023447_000000352064_00218_30332_1769.N1	19-DEC-2007 02:34:47	Bright	34.500	175	39Del Per	3.0100	19400.	69	30332	No
39	GOM_TRA_1PNPDE20071219_024628_000000352064_00218_30332_1770.N1	19-DEC-2007 02:46:28	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30332	No
40	GOM_TRA_1PNPDE20071219_025110_000000342064_00218_30332_1915.N1	19-DEC-2007 02:51:10	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	30332	No
41	GOM_TRA_1PNPDE20071219_025431_000000372064_00218_30332_1916.N1	19-DEC-2007 02:54:31	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	30332	No
42	GOM_TRA_1PNPDE20071219_030148_000000562064_00218_30332_1917.N1	19-DEC-2007 03:01:48	Bright	56.000	180	27Gam Boo	3.0400	8000.0	112	30332	No
43	GOM_TRA_1PNPDE20071219_030504_000000352064_00218_30332_1918.N1	19-DEC-2007 03:05:04	Bright	35.000	83		2.3780	11000.	70	30332	No
44	GOM_TRA_1PNPDE20071219_030750_000000402064_00218_30332_1919.N1	19-DEC-2007 03:07:50	Bright	40.000	3	16Alp Boo	-0.050000	4250.0	80	30332	No
45	GOM_TRA_1PNPDE20071219_031711_000000352064_00218_30332_1920.N1	19-DEC-2007 03:17:11	Bright	34.500	122	9Alp2Lib	2.7470	9700.0	69	30332	No
46	GOM_TRA_1PNPDE20071219_032339_000000432064_00218_30332_1921.N1	19-DEC-2007 03:23:39	Dark	42.500	54	5The Cen	2.0550	4500.0	85	30332	No
47	GOM_TRA_1PNPDE20071219_032638_000000382064_00218_30332_1922.N1	19-DEC-2007 03:26:38	Dark	37.500	95	Zet Cen	2.5450	26000.	75	30332	No
48	GOM_TRA_1PNPDE20071219_032927_000000402064_00218_30332_1923.N1	19-DEC-2007 03:29:27	Dark	40.000	64	Gam Cen	2.2000	10600.	80	30332	No
49	GOM_TRA_1PNPDE20071219_033220_000000442064_00219_30333_1924.N1	19-DEC-2007 03:32:20	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	30333	No

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



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

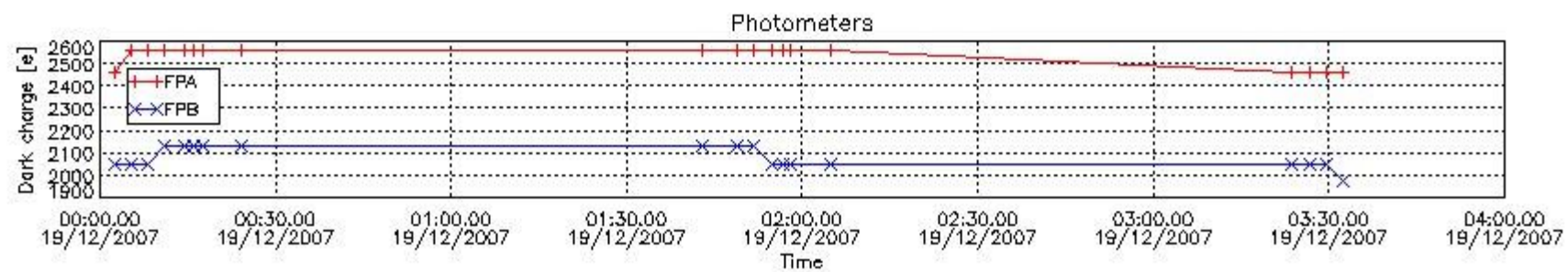
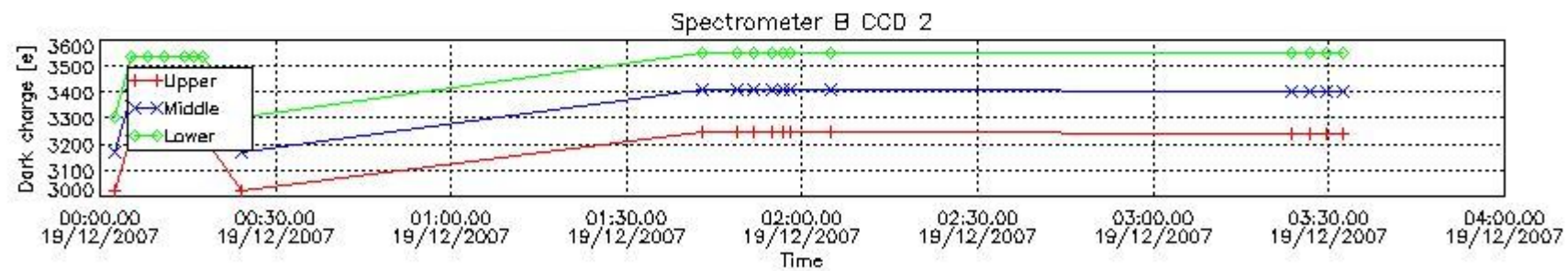
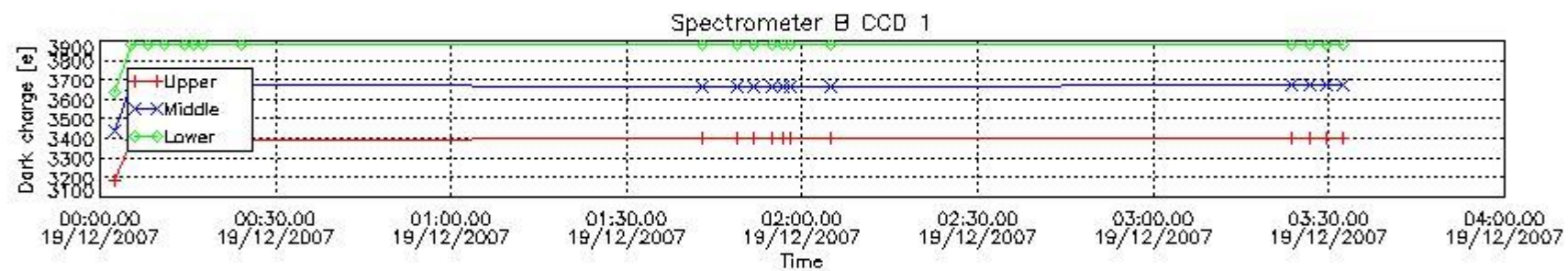
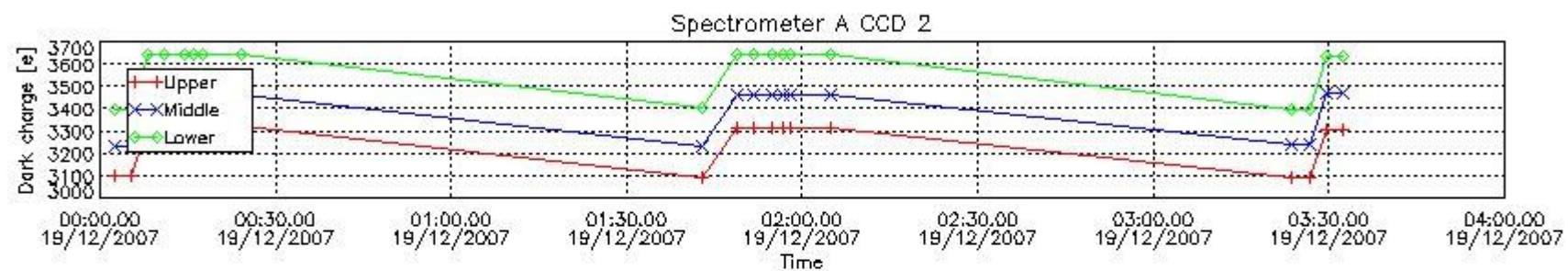
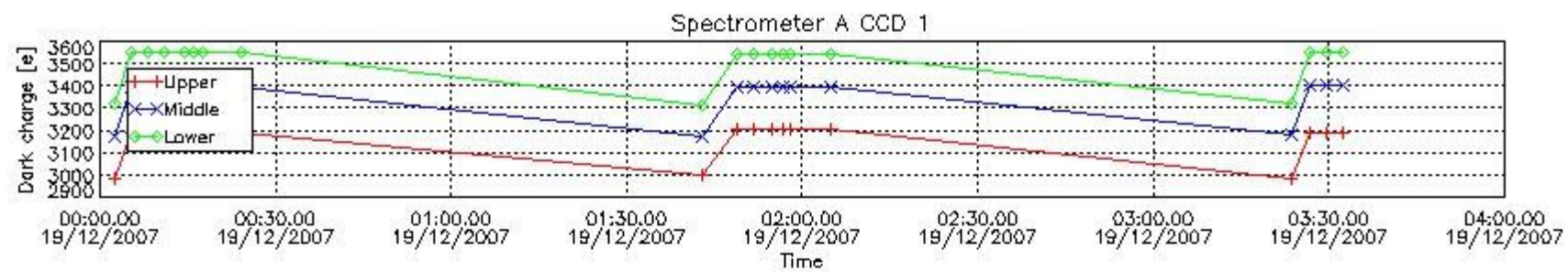
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





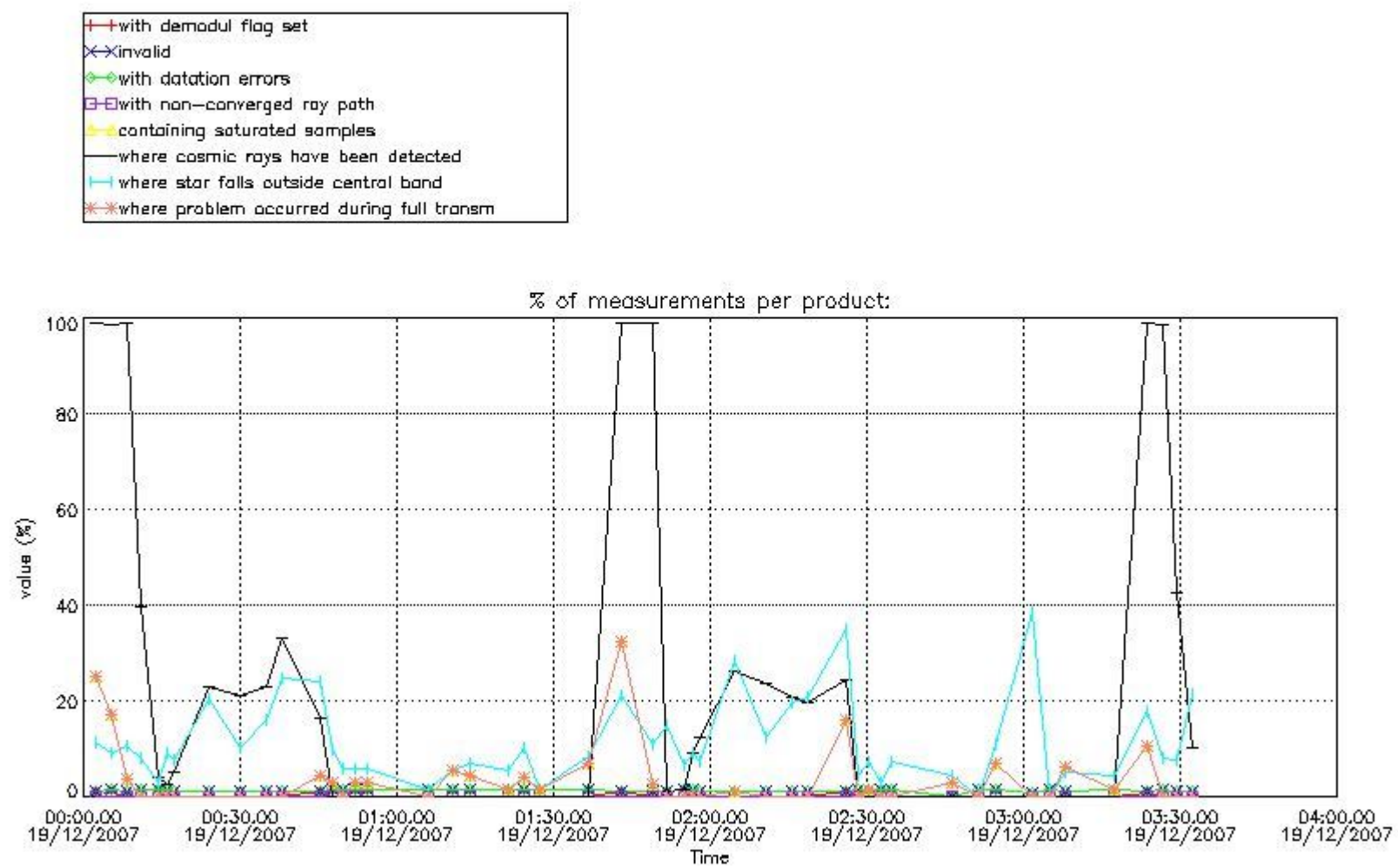
## 5. Demodulation flag and quality information monitoring

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:

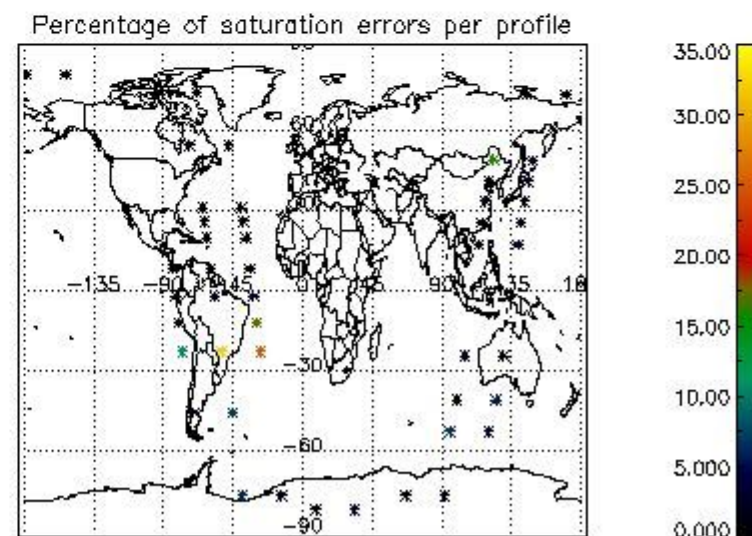
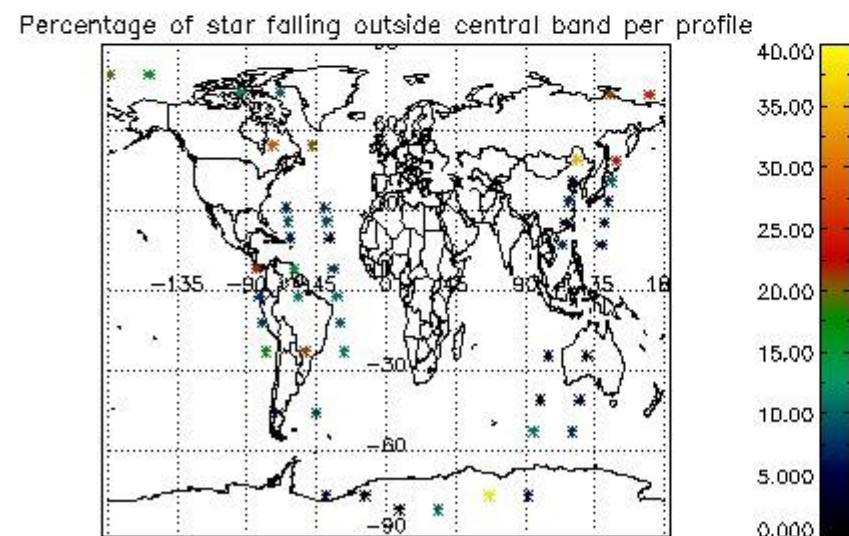
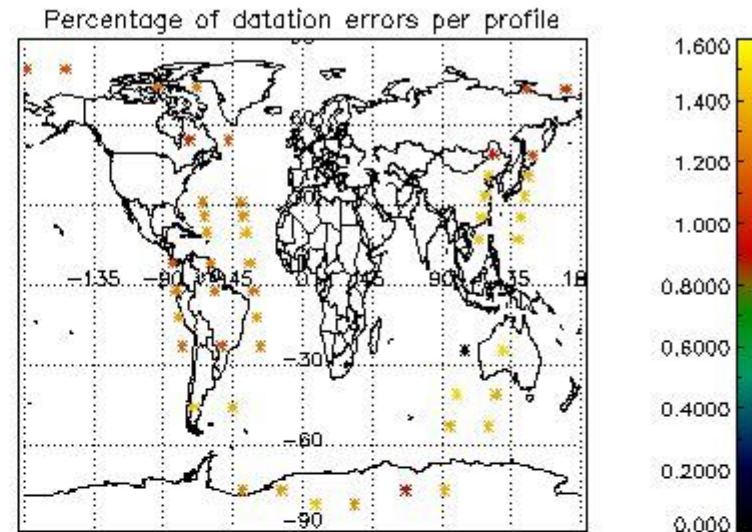
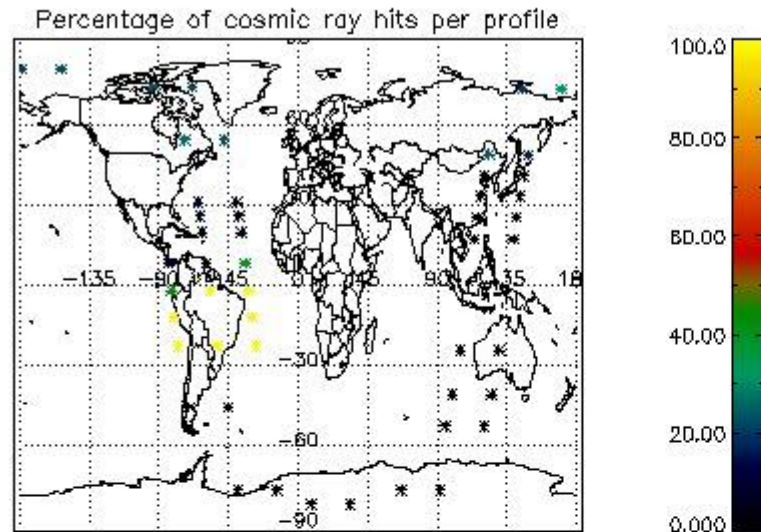
At least one measurement with demodulation flag set:	30.6122 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





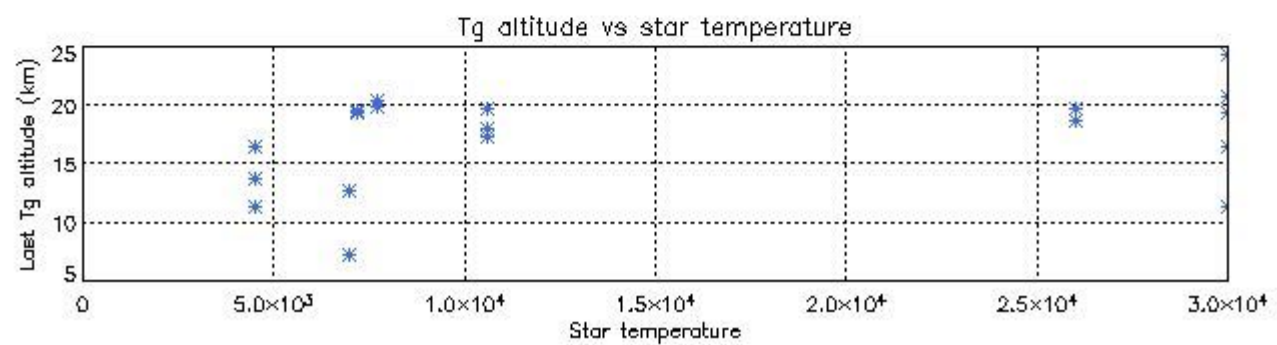
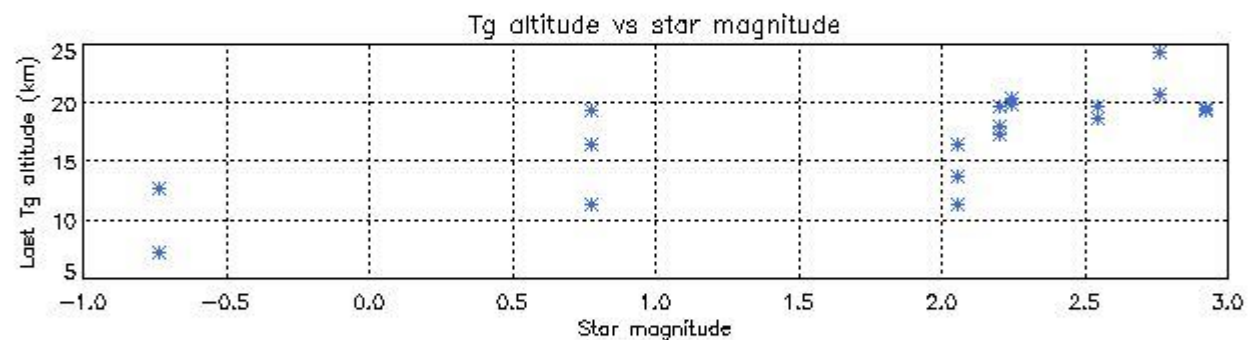
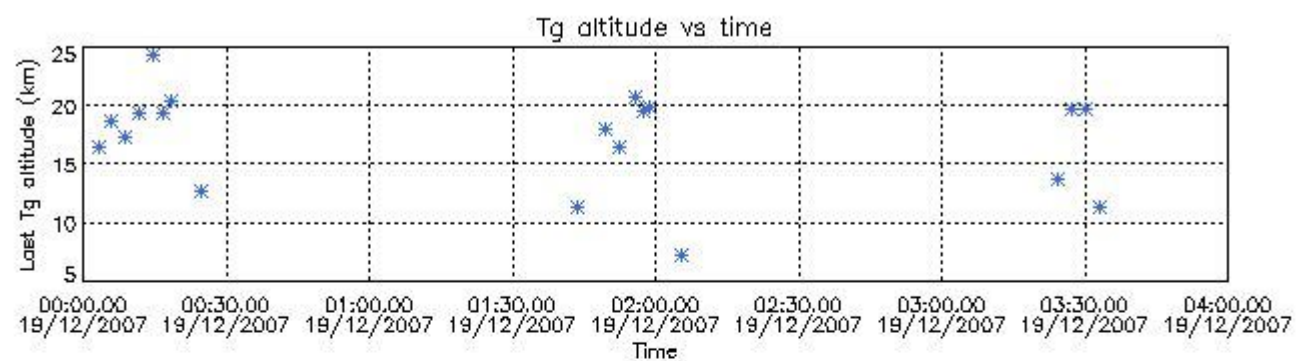
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.168	21.345	NaN
St. deviation:	4.1520	4.6867	NaN
Maximum:	24.270	27.439	NaN
Minimum:	7.2440	3.4290	NaN
Number of data:	19.000	22.000	NaN

### 6.2 Plot for DARK limb products

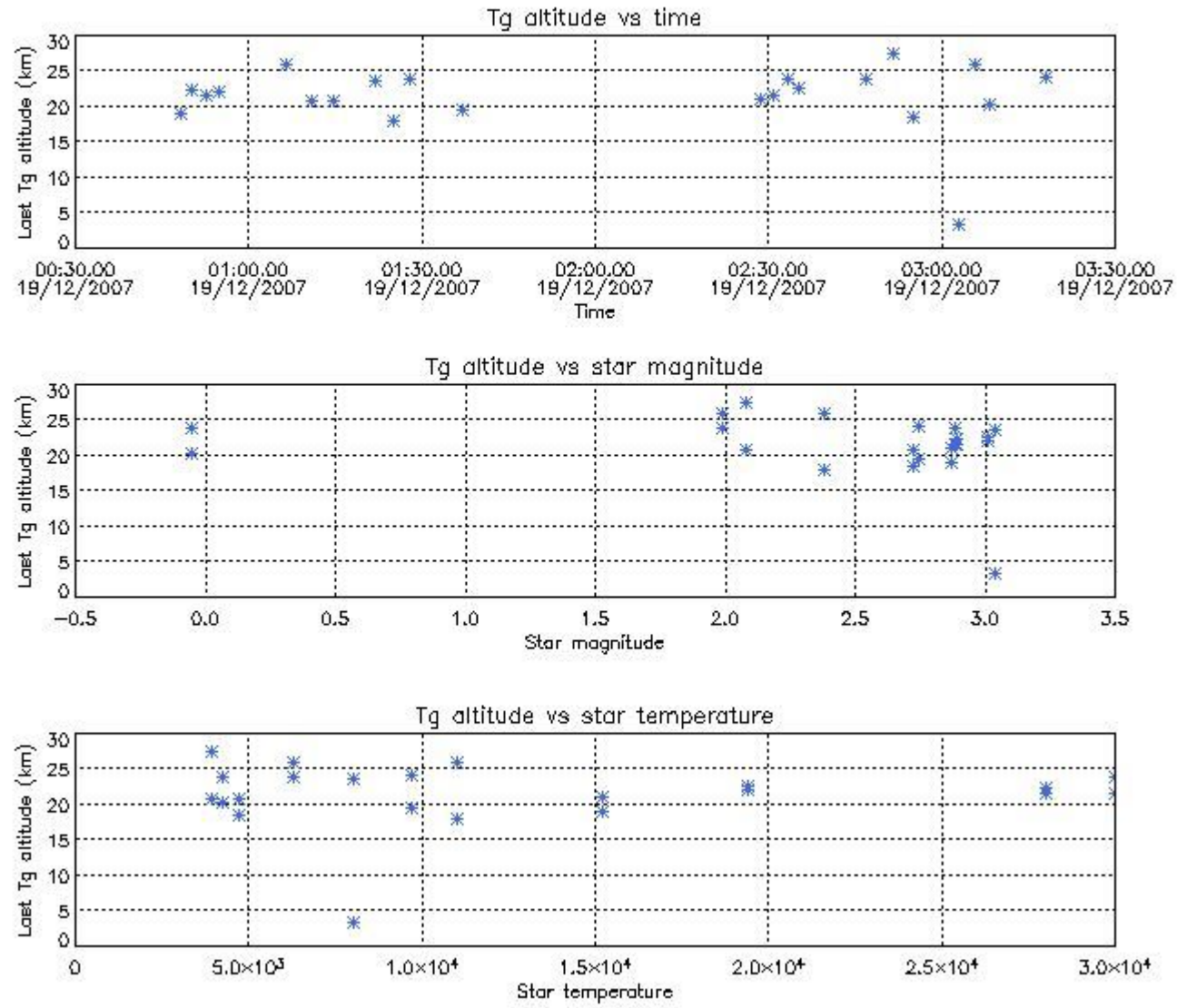
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

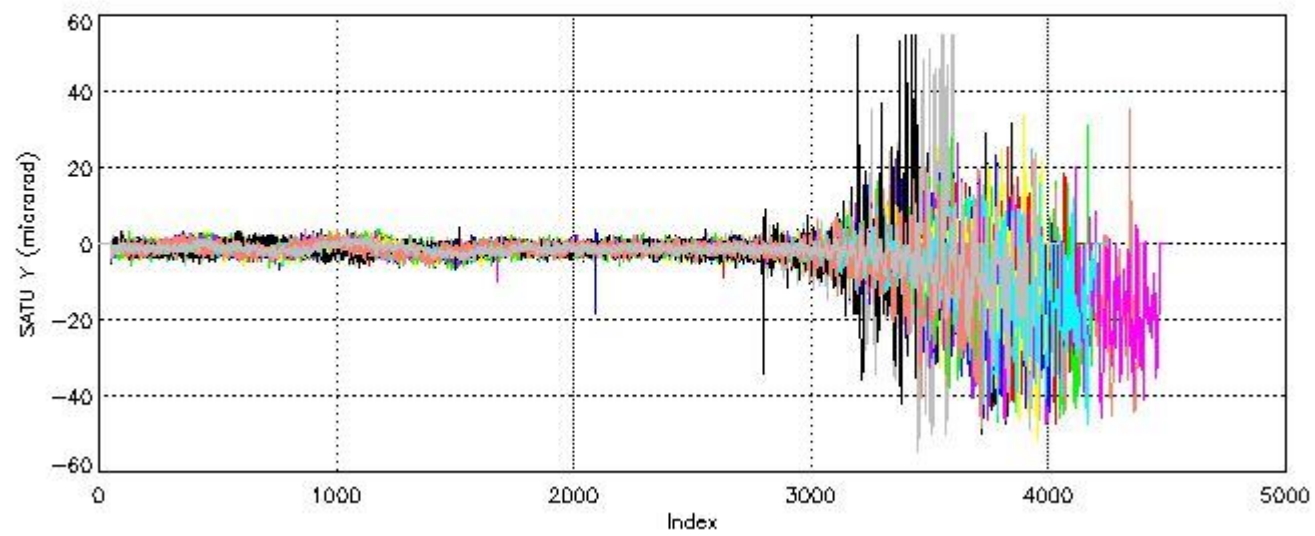
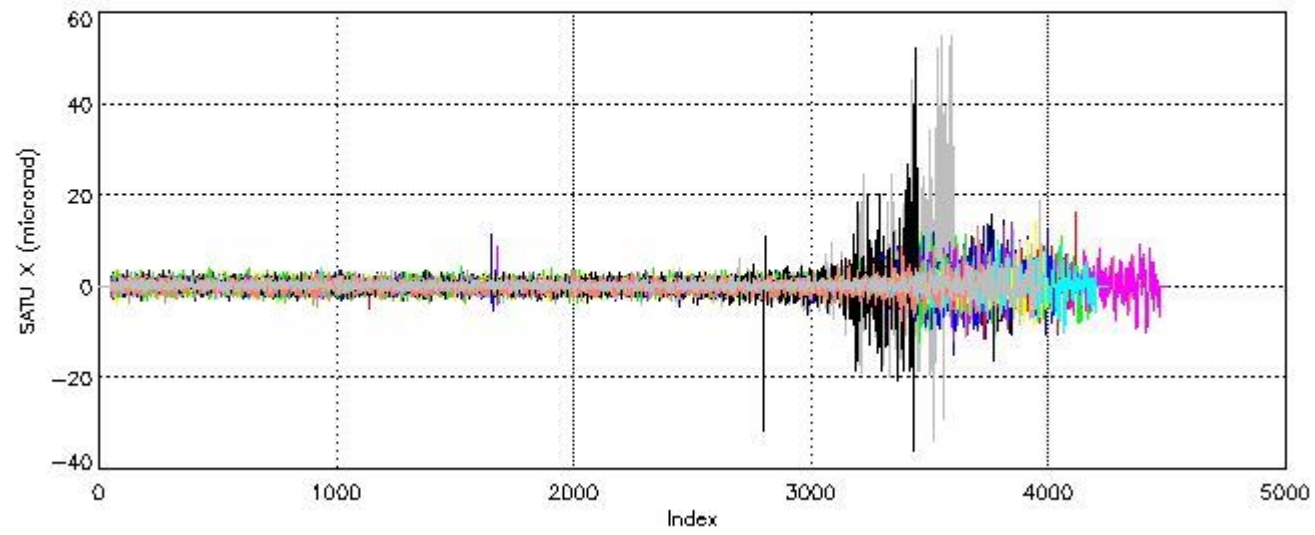


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.12741	-1.2167	0.025645	-1.2720
St. deviation:	0.59209	1.0670	0.96518	1.5454
Maximum:	4.0000	3.3000	5.4000	5.7000
Minimum:	-4.0000	-6.7000	-6.8000	-8.0000

Number of data:	17200.	17200.	18200.	18200.
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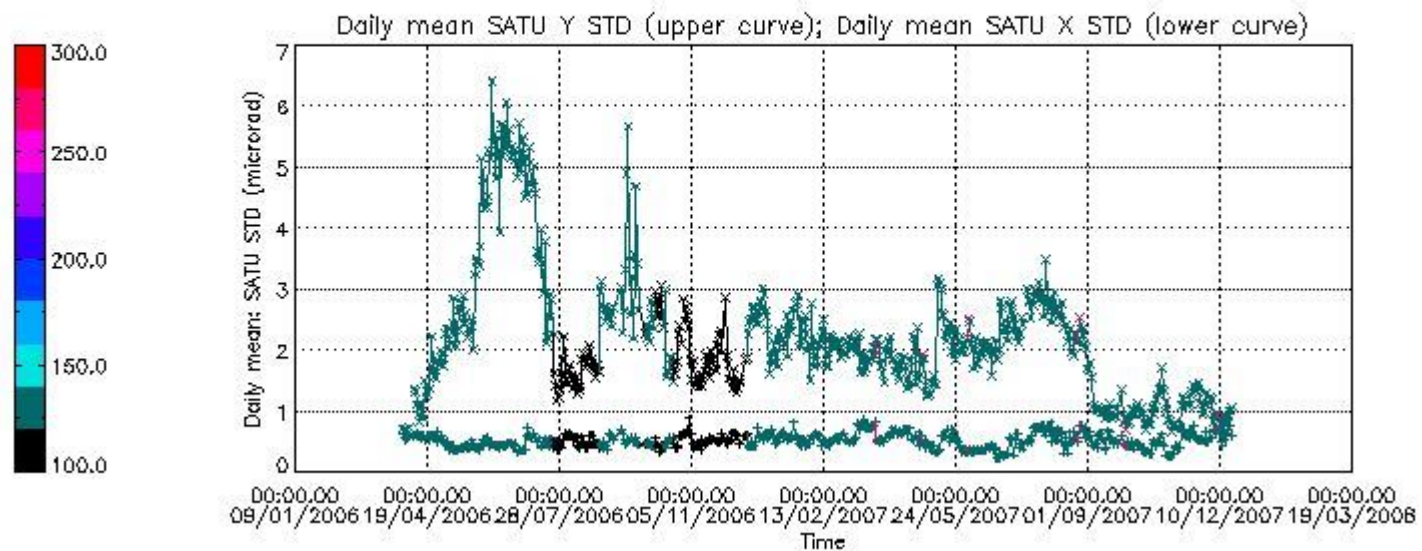
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

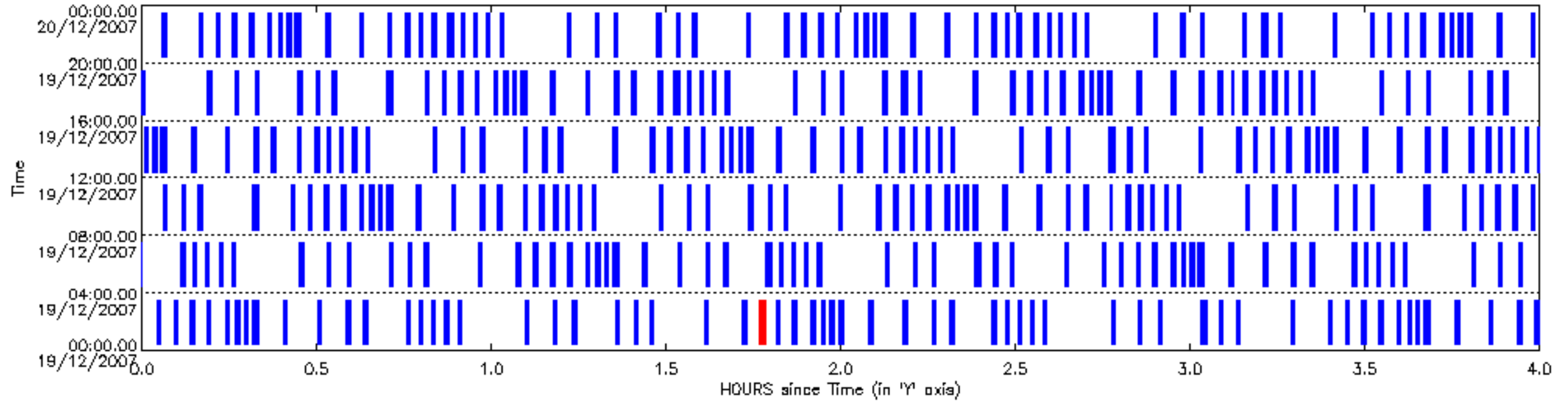


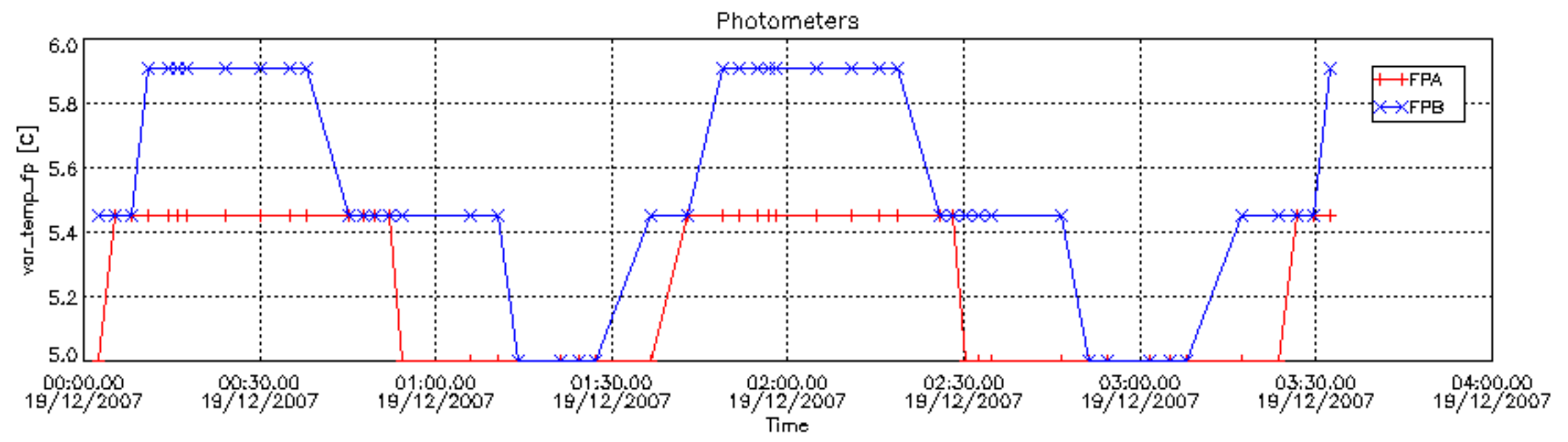
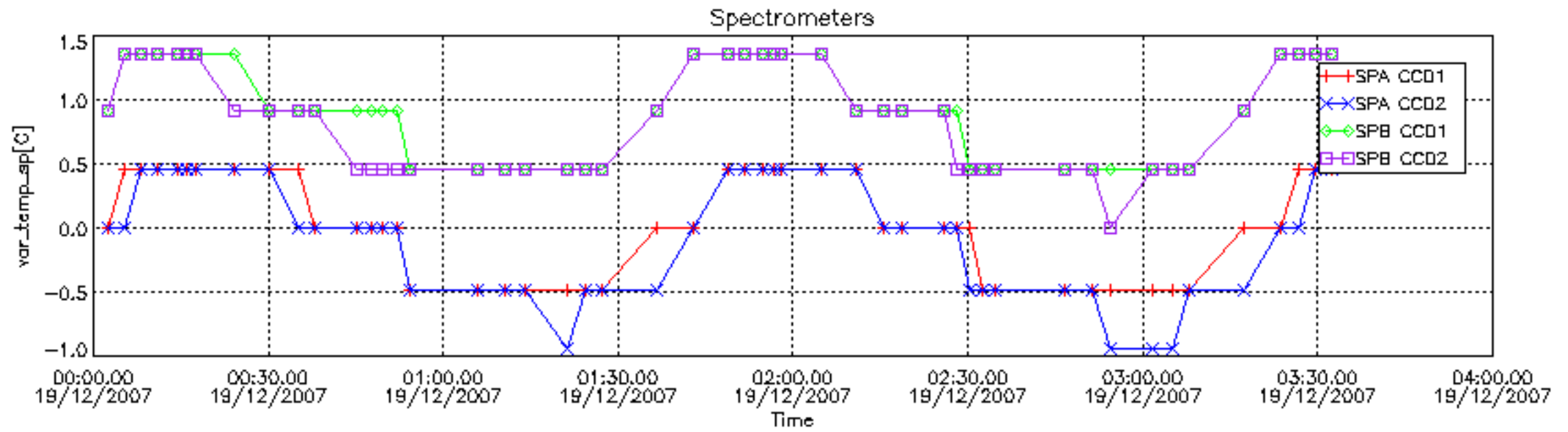
### 8. Auxiliary Data Files used for the production reported in section 2.4

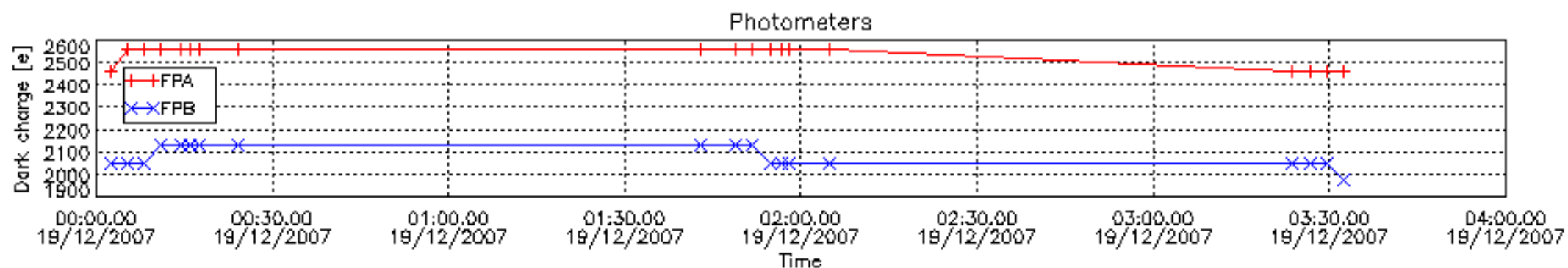
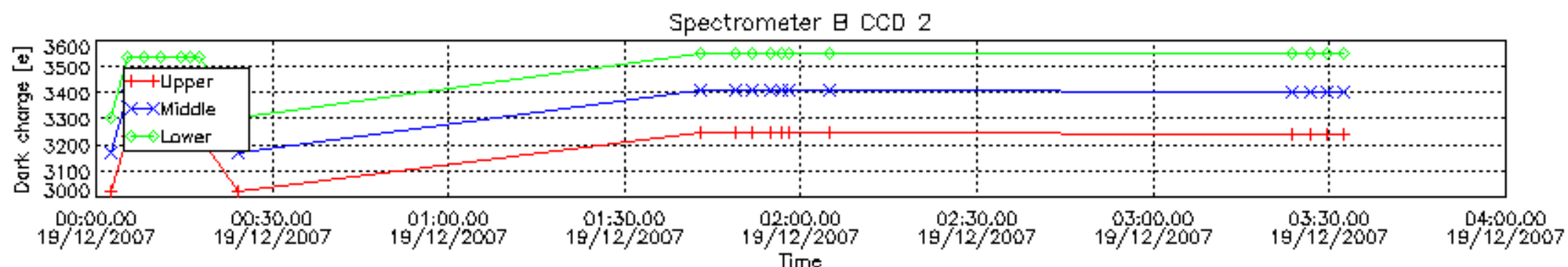
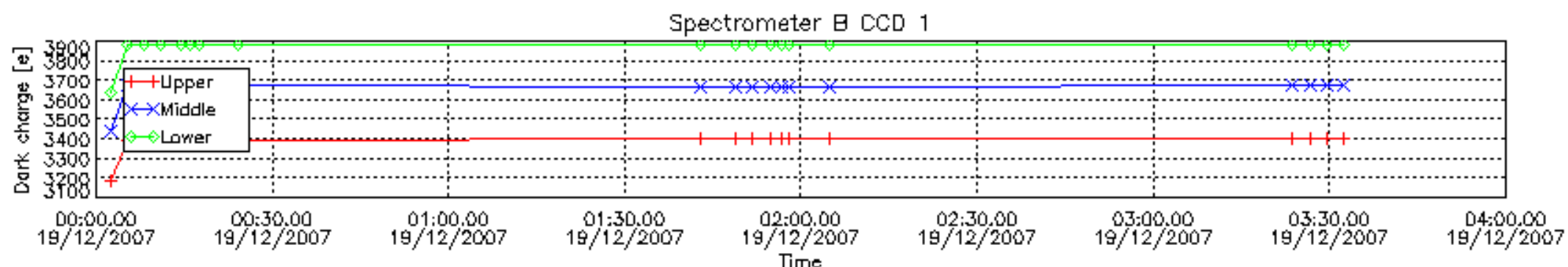
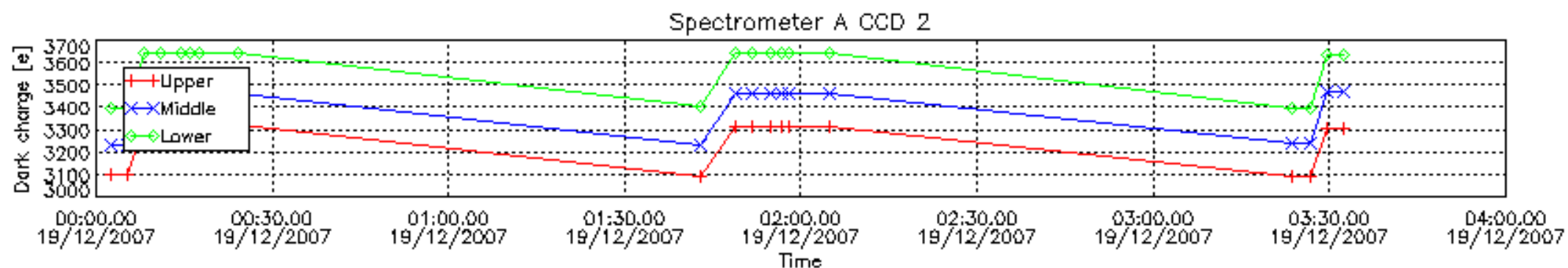
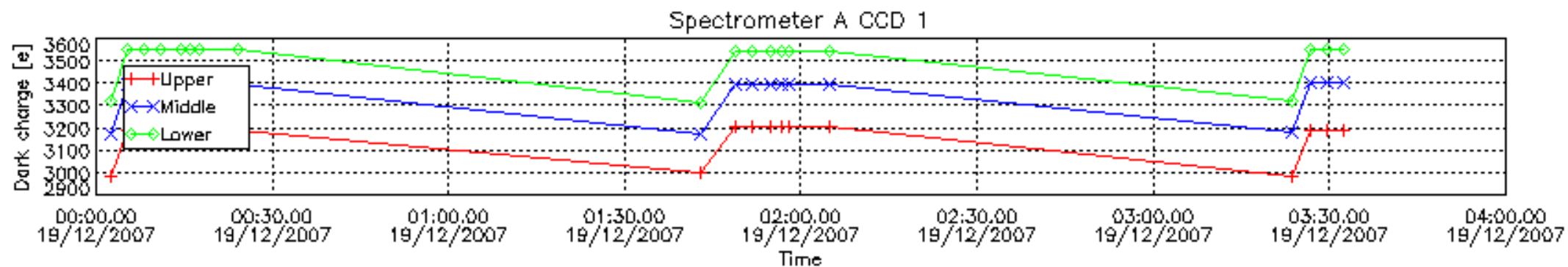
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-DEC-2007 00:02:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071214_094104_20071212_000000_20100101_000000	1	19-DEC-2007 00:02:26
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-DEC-2007 00:02:26
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-DEC-2007 00:02:26
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-DEC-2007 00:02:26
ECMWF_FILE	AUX_ECF_AXNECM20071218_063113_20071218_210000_20071219_090000	1	19-DEC-2007 00:02:26
OPTIONAL_ECMWF_FILE	MISSING	1	19-DEC-2007 00:02:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071218_221424_000057382064_00215_30329_4776.N1	1	19-DEC-2007 00:02:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071218_235521_000057382064_00216_30330_4777.N1	23	19-DEC-2007 01:36:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071219_013059_000041442064_00217_30331_4778.N1	40	19-DEC-2007 02:51:10

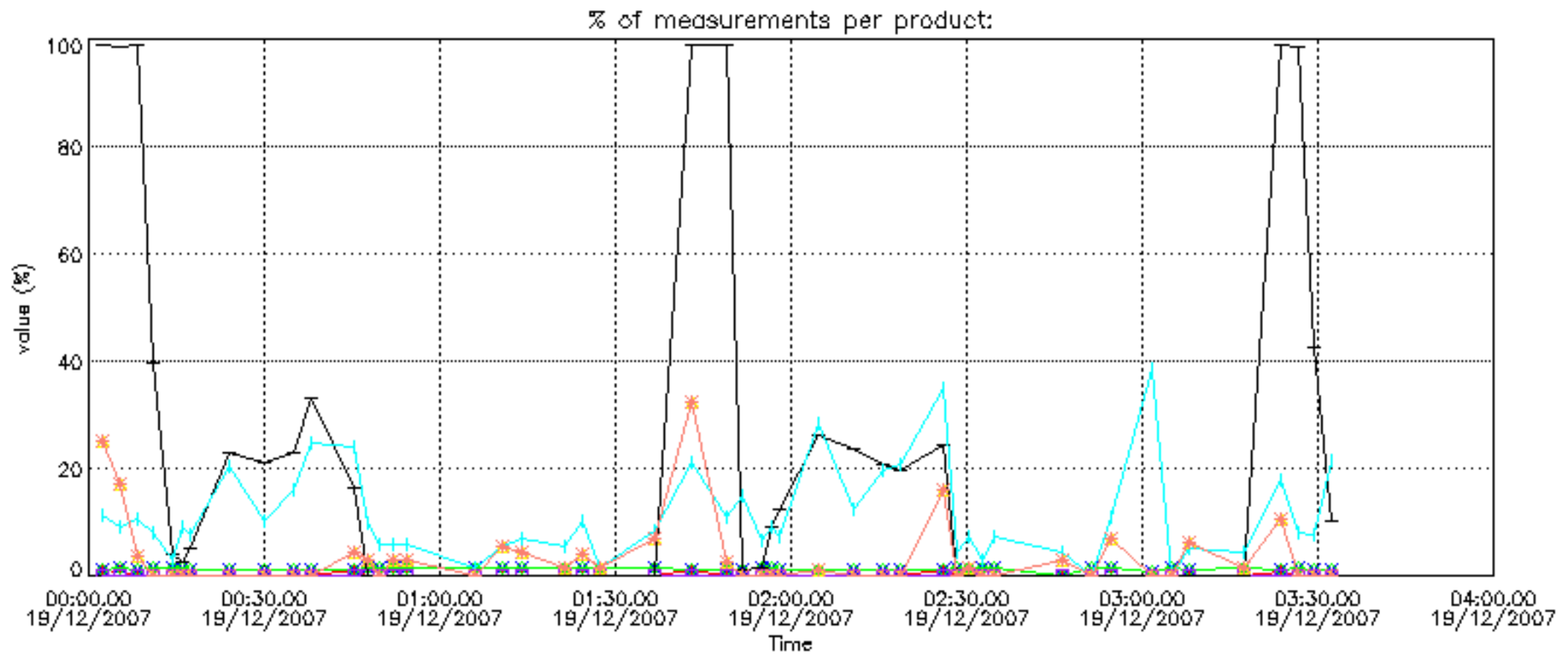




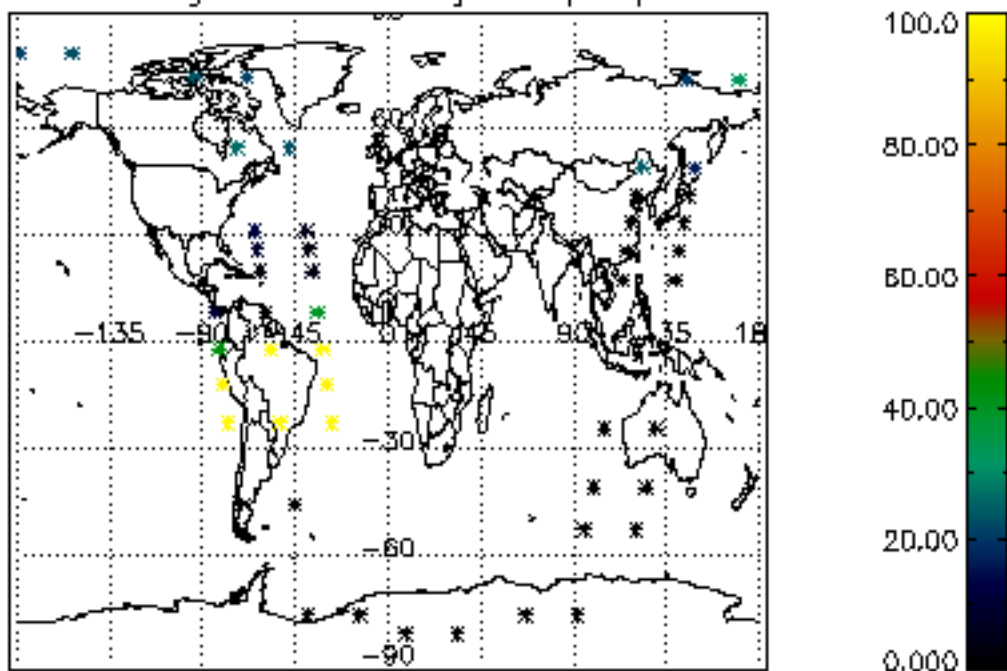




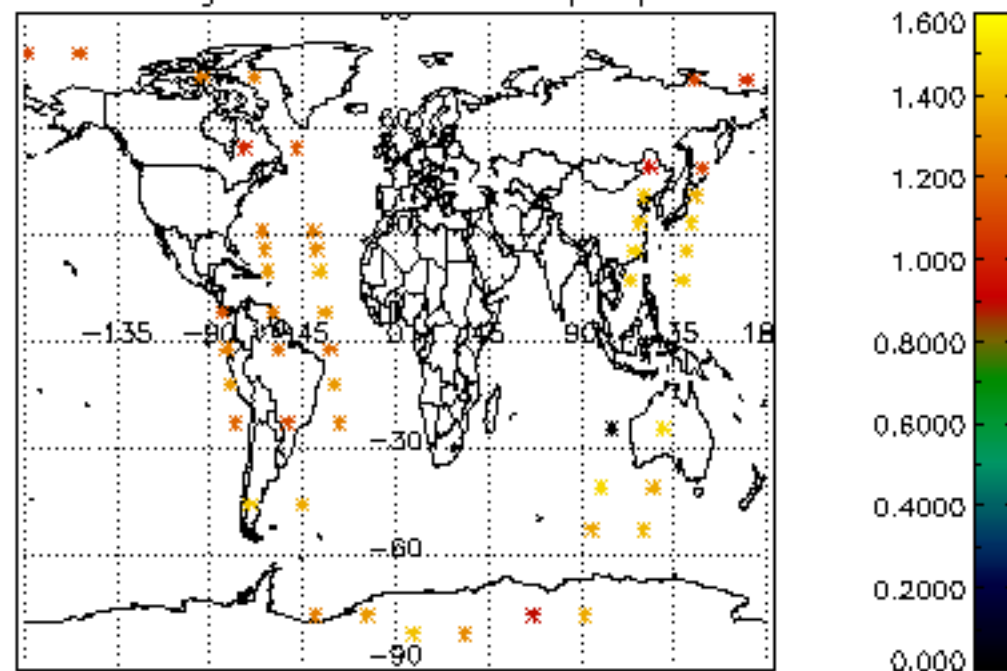




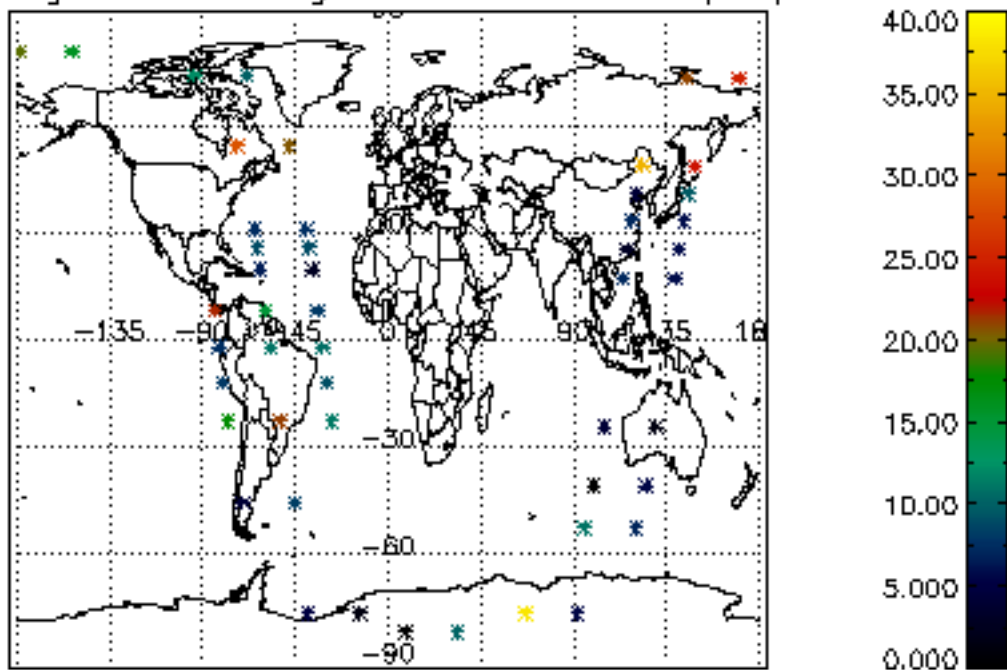
Percentage of cosmic ray hits per profile



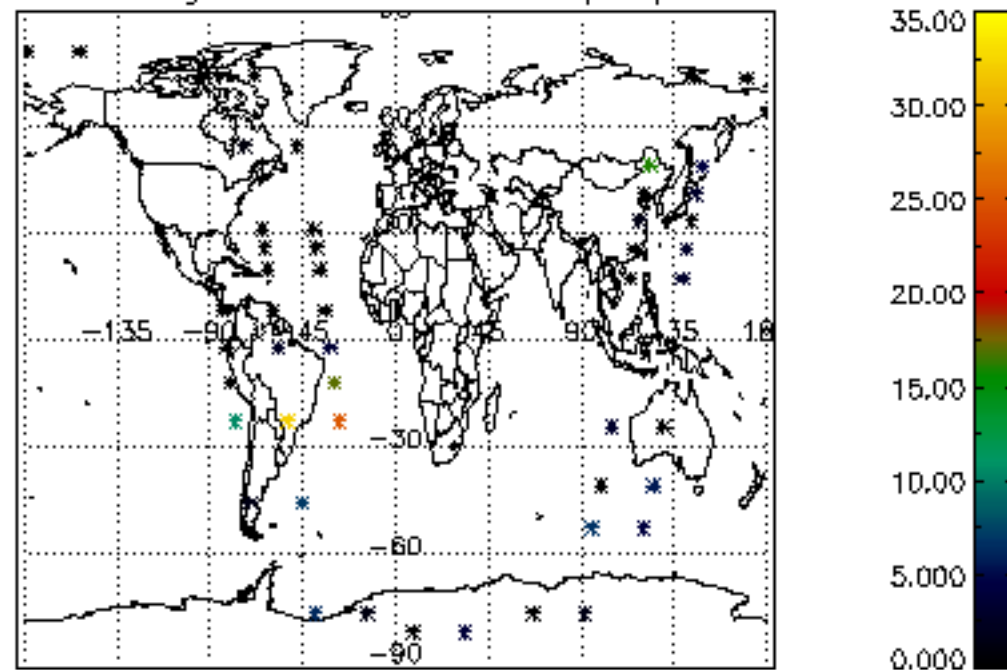
Percentage of datation errors per profile



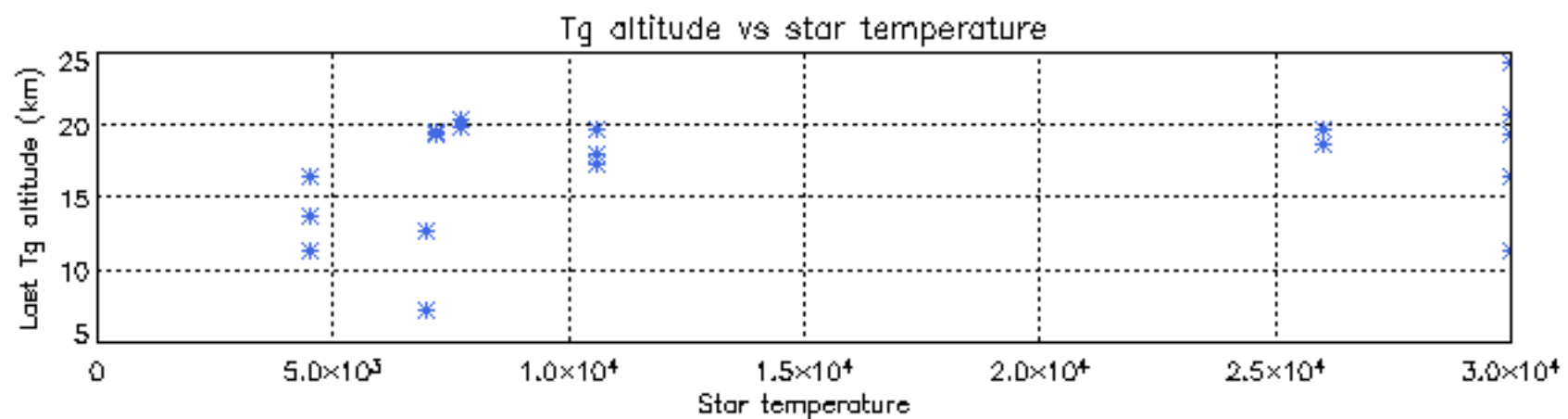
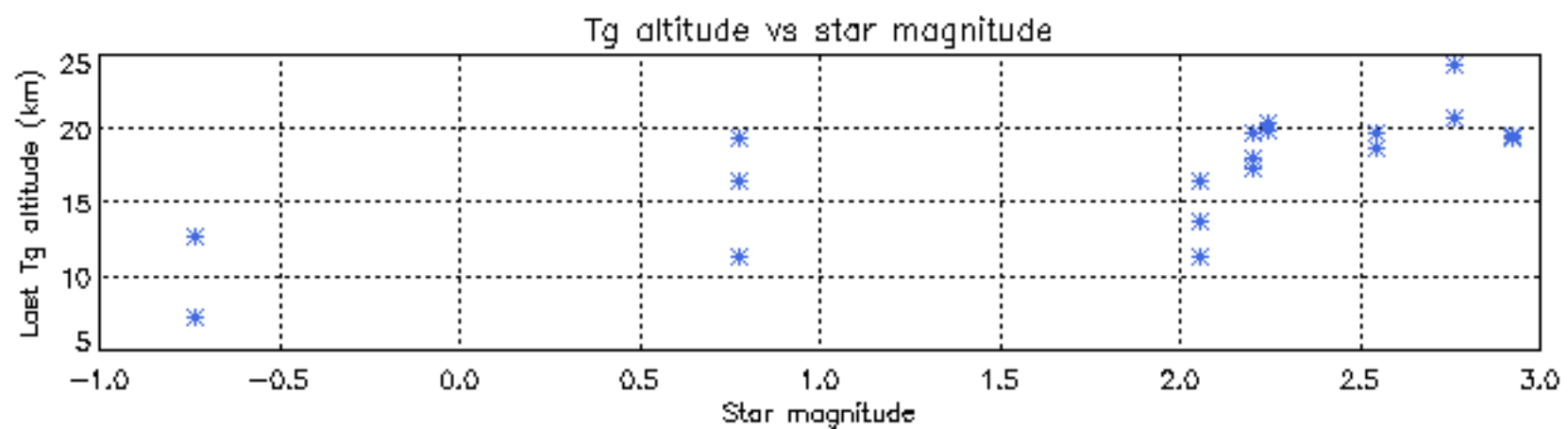
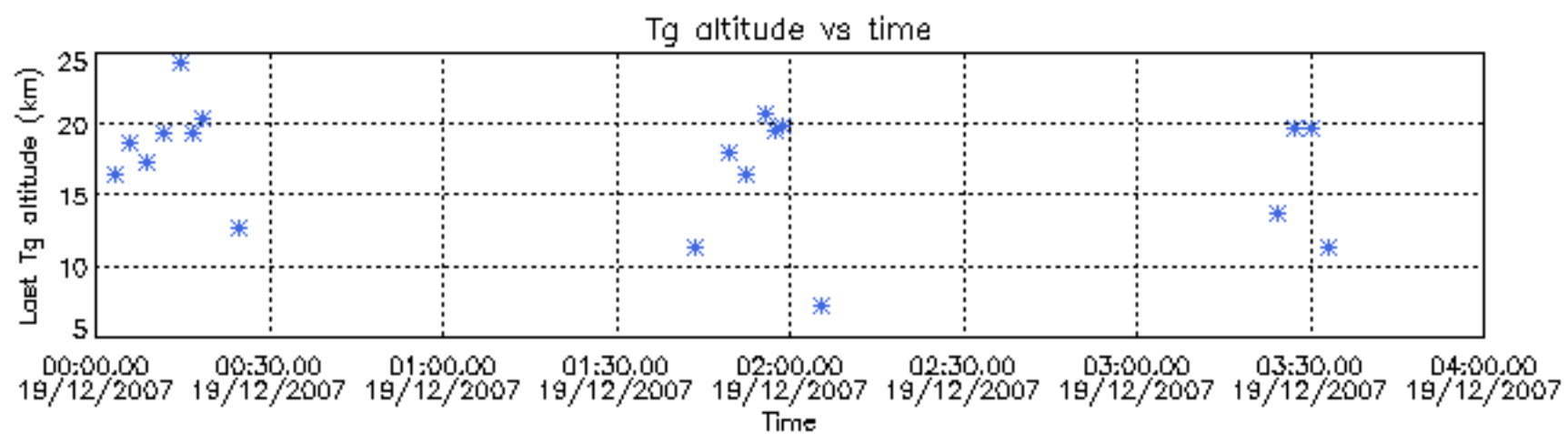
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

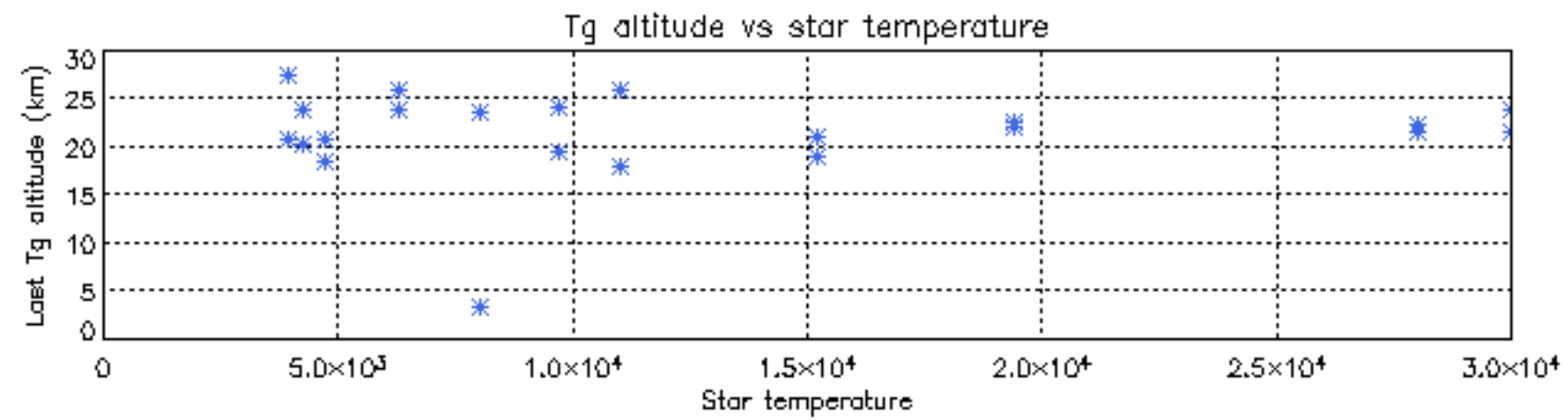
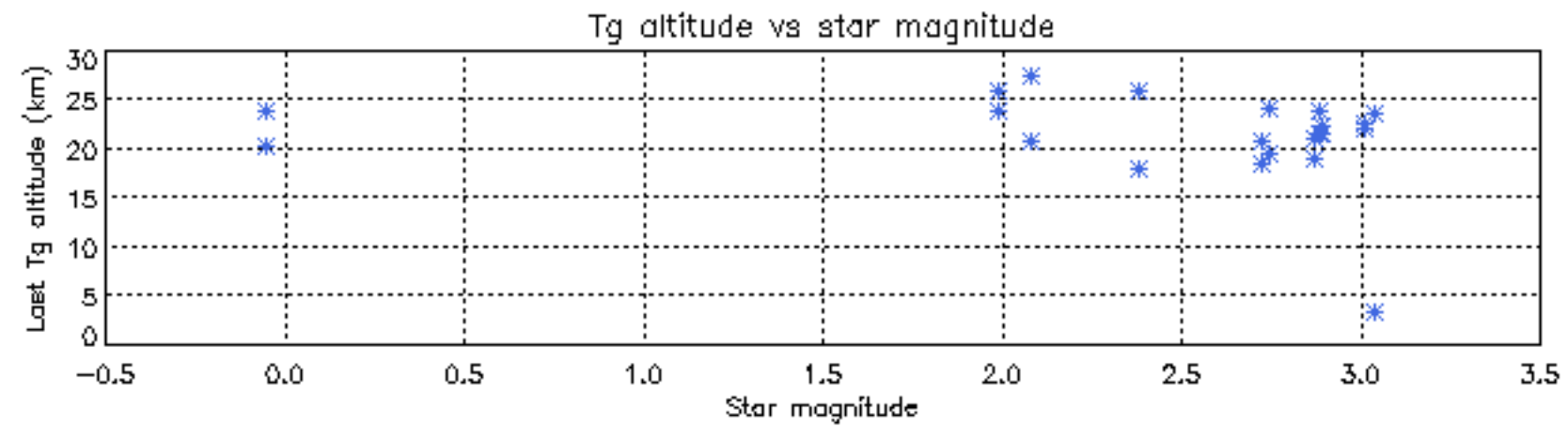
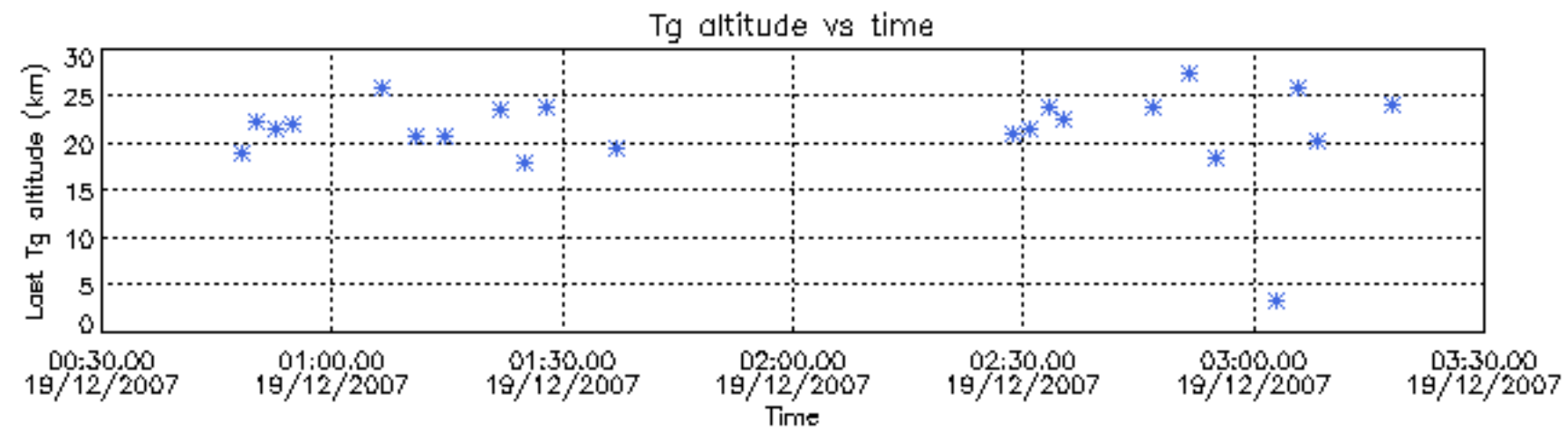


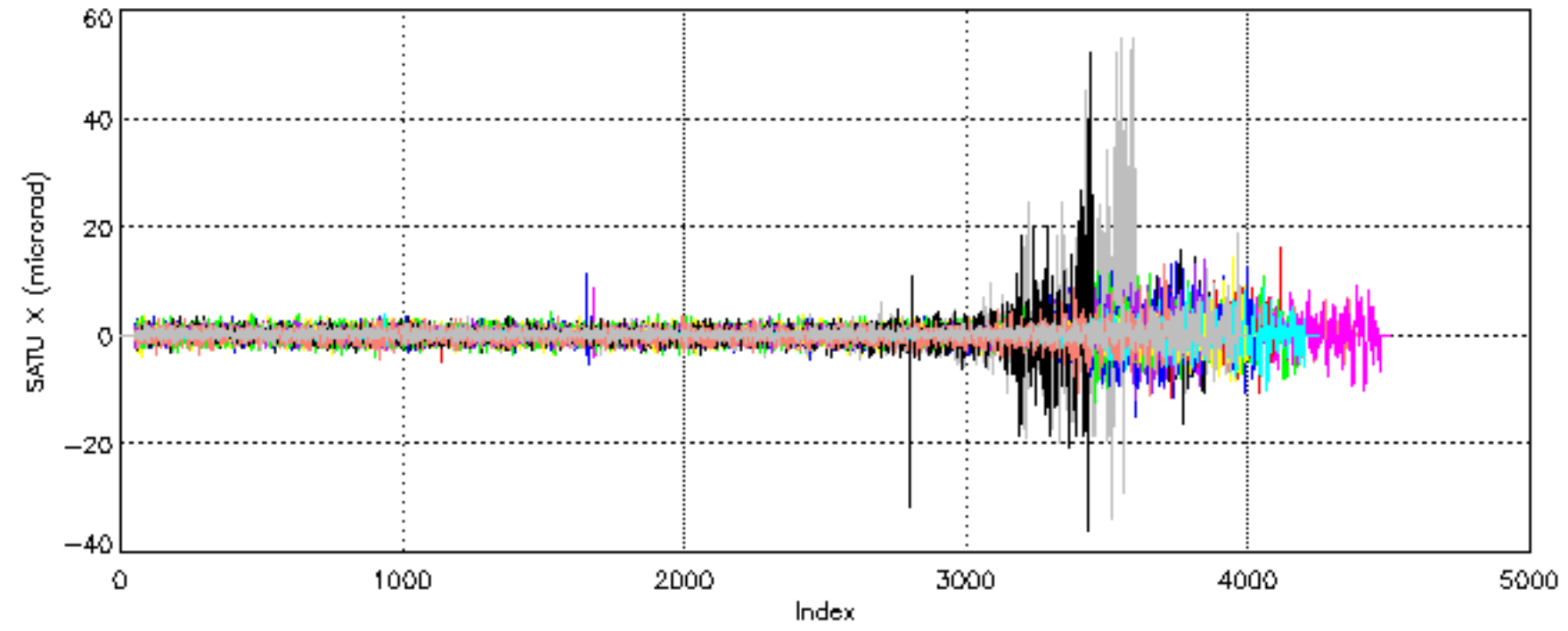
Tangent altitude at which the star is lost

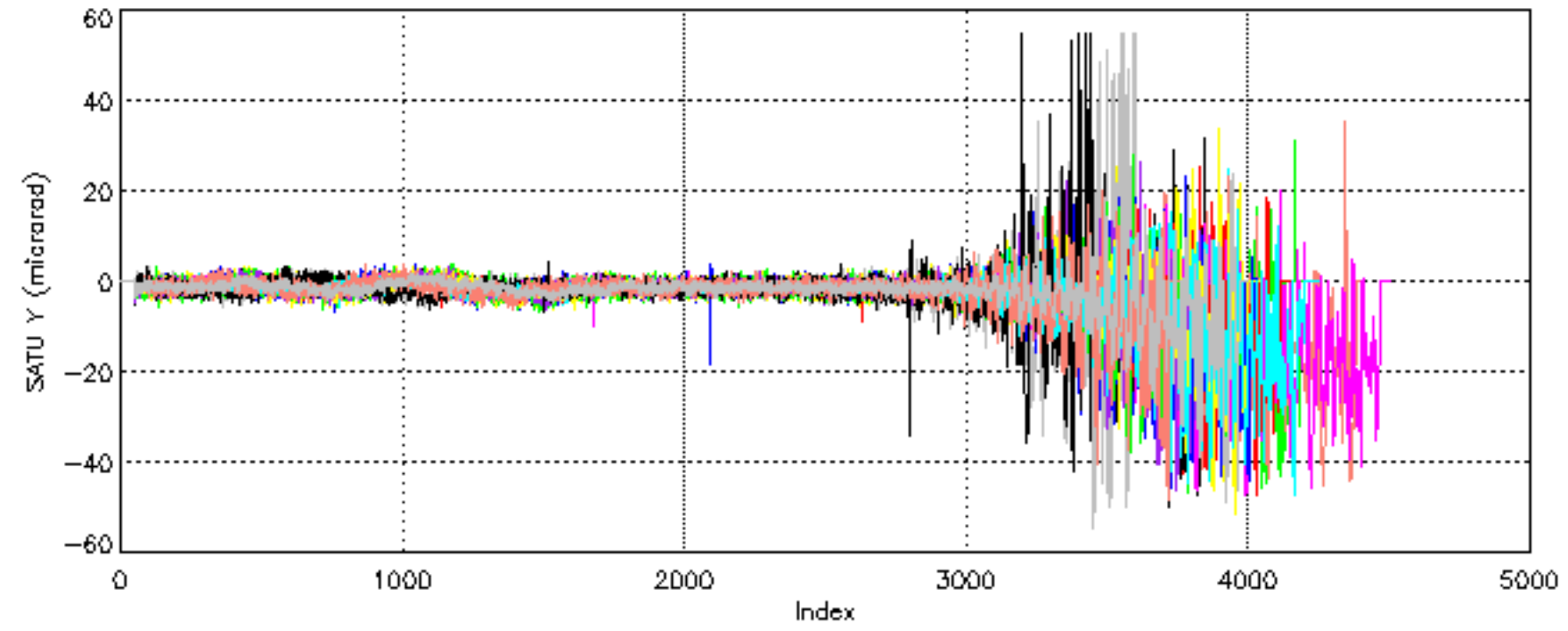




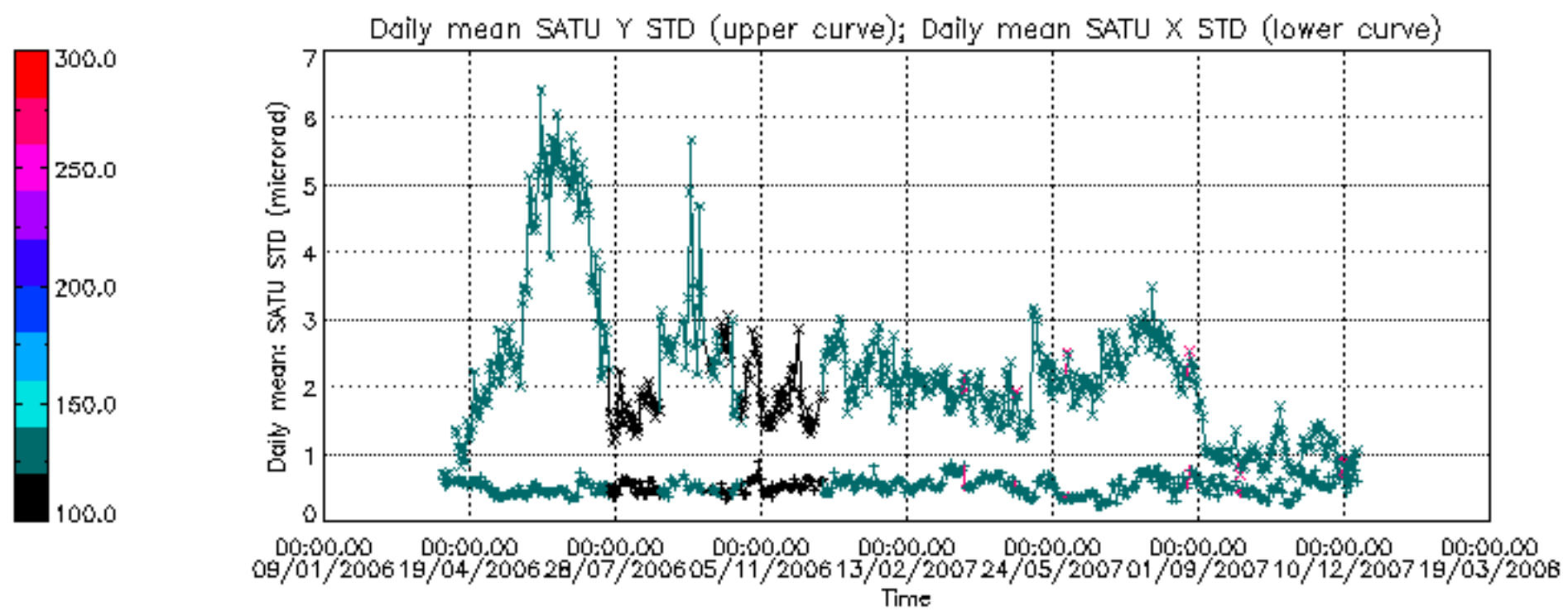
Tangent altitude at which the star is lost











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 23; 6772.6; 12-DEC-2007 15:46:37; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;30239  
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 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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 16; 4714.2; 12-DEC-2007 16:52:54; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;30240  
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9; 466.4; 13-DEC-2007 01:45:42; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30246
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13; 31.1; 13-DEC-2007 03:19:03; Dark ; 45.0; 20; Bet Cru ; 1.25; 30000;occ; 90; 0;30247
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 5; 2450.9; 15-DEC-2007 14:40:20; Bright; 34.5; 150; 44Zet Per ; 2.89; 28000;occ; 69; 0;30282  
 6; 2588.8; 15-DEC-2007 14:42:38; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30282  
 7; 2719.9; 15-DEC-2007 14:44:49; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30282  
 8; 2824.5; 15-DEC-2007 14:46:34; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;30282  
 9; 3422.3; 15-DEC-2007 14:56:31; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;30282  
 10; 3705.1; 15-DEC-2007 15:01:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30282  
 11; 4138.3; 15-DEC-2007 15:08:28; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;30282  
 12; 4337.2; 15-DEC-2007 15:11:46; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;30282  
 13; 4528.9; 15-DEC-2007 15:14:58; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;30282  
 14; 4726.6; 15-DEC-2007 15:18:16; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;30282  
 15; 5527.7; 15-DEC-2007 15:31:37; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;30282  
 16; 5631.1; 15-DEC-2007 15:33:20; Dark ; 48.5; 54; 5The Cen ; 2.06; 4500;occ; 97; 0;30282  
 17; 5722.4; 15-DEC-2007 15:34:52; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;30282  
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 19; 5969.3; 15-DEC-2007 15:38:58; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;30282  
 20; 6082.1; 15-DEC-2007 15:40:51; Dark ; 41.0; 20; Bet Cru ; 1.25; 30000;occ; 82; 0;30282  
 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  
 23; 6525.4; 15-DEC-2007 15:48:15; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30282  
 24; 6641.0; 15-DEC-2007 15:50:10; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;30282  
 25; 6872.9; 15-DEC-2007 15:54:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30282  
 26; 7298.7; 15-DEC-2007 16:01:08; Dark ; 41.5; 108; Alp Col ; 2.65; 15200;occ; 83; 0;30282

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 3; 1749.7; 15-DEC-2007 16:09:15; Dark ; 53.5; 7; 19Bet Ori ; 0.10; 14000;occ; 107; 0;30283  
 4; 2191.5; 15-DEC-2007 16:16:37; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30283  
 5; 2320.6; 15-DEC-2007 16:18:46; Bright; 34.5; 146; 25Eta Tau ; 2.87; 15200;occ; 69; 0;30283  
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 7; 2588.7; 15-DEC-2007 16:23:14; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;30283  
 8; 2719.7; 15-DEC-2007 16:25:25; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30283  
 9; 2824.5; 15-DEC-2007 16:27:10; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;30283  
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 11; 3705.1; 15-DEC-2007 16:41:50; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;30283  
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 13; 4337.4; 15-DEC-2007 16:52:23; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;30283  
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 15; 4726.9; 15-DEC-2007 16:58:52; Bright; 39.5; 111; 8Eta Boo ; 2.68; 6000;occ; 79; 0;30283  
 16; 5528.4; 15-DEC-2007 17:12:14; Dark ; 47.0; 169; 46Gam Hya ; 2.99; 4700;occ; 94; 0;30283  
 17; 5631.5; 15-DEC-2007 17:13:57; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;30283  
 18; 5722.9; 15-DEC-2007 17:15:28; Dark ; 40.0; 123; Iot Cen ; 2.75; 10200;occ; 80; 0;30283  
 19; 5812.6; 15-DEC-2007 17:16:58; Dark ; 37.0; 95; Zet Cen ; 2.55; 26000;occ; 74; 0;30283  
 20; 5970.0; 15-DEC-2007 17:19:35; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;30283  
 21; 6082.5; 15-DEC-2007 17:21:28; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0;30283  
 22; 6341.7; 15-DEC-2007 17:25:47; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30283  
 23; 6446.3; 15-DEC-2007 17:27:31; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30283  
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 25; 6641.5; 15-DEC-2007 17:30:47; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;30283  
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 3; 1749.8; 15-DEC-2007 17:49:51; Dark ; 51.0; 7; 19Bet Ori ; 0.10; 14000;occ; 102; 0;30284  
 4; 2191.4; 15-DEC-2007 17:57:13; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;30284  
 5; 2320.7; 15-DEC-2007 17:59:22; Bright; 35.0; 146; 25Eta Tau ; 2.87; 15200;occ; 70; 0;30284  
 6; 2450.7; 15-DEC-2007 18:01:32; Bright; 35.0; 150; 44Zet Per ; 2.89; 28000;occ; 70; 0;30284  
 7; 2588.6; 15-DEC-2007 18:03:50; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30284  
 8; 2719.8; 15-DEC-2007 18:06:01; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;30284  
 9; 2824.5; 15-DEC-2007 18:07:46; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;30284  
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 11; 3705.0; 15-DEC-2007 18:22:26; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30284  
 12; 4138.2; 15-DEC-2007 18:29:39; Bright; 40.5; 39; 85Eta UMa ; 1.85; 24000;occ; 81; 0;30284  
 13; 4337.1; 15-DEC-2007 18:32:58; Bright; 54.0; 180; 27Gam Boo ; 3.04; 8000;occ; 108; 0;30284



14; 4529.1; 15-DEC-2007 18:36:10; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;30284  
 15; 4727.1; 15-DEC-2007 18:39:28; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;30284  
 16; 5529.1; 15-DEC-2007 18:52:50; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;30284  
 17; 5631.9; 15-DEC-2007 18:54:33; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;30284  
 18; 5723.6; 15-DEC-2007 18:56:05; Dark ; 40.5; 123; Iot Cen ; 2.75; 10200;occ; 81; 0;30284  
 19; 5812.9; 15-DEC-2007 18:57:34; Dark ; 37.0; 95; Zet Cen ; 2.55; 26000;occ; 74; 0;30284  
 20; 5970.5; 15-DEC-2007 19:00:12; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;30284  
 21; 6082.9; 15-DEC-2007 19:02:04; Dark ; 44.0; 20; Bet Cru ; 1.25; 30000;occ; 88; 0;30284  
 22; 6342.0; 15-DEC-2007 19:06:23; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;30284  
 23; 6446.7; 15-DEC-2007 19:08:08; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30284  
 24; 6526.7; 15-DEC-2007 19:09:28; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30284  
 25; 6642.0; 15-DEC-2007 19:11:23; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30284  
 26; 6874.0; 15-DEC-2007 19:15:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30284

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 3; 1749.7; 15-DEC-2007 19:30:27; Dark ; 54.0; 7; 19Bet Ori ; 0.10; 14000;occ; 108; 0;30285  
 4; 2191.3; 15-DEC-2007 19:37:49; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;30285  
 5; 2320.7; 15-DEC-2007 19:39:58; Bright; 35.0; 146; 25Eta Tau ; 2.87; 15200;occ; 70; 0;30285  
 6; 2450.8; 15-DEC-2007 19:42:08; Bright; 36.0; 150; 44Zet Per ; 2.89; 28000;occ; 72; 0;30285  
 7; 2588.6; 15-DEC-2007 19:44:26; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30285  
 8; 2719.8; 15-DEC-2007 19:46:37; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30285  
 9; 2824.6; 15-DEC-2007 19:48:22; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;30285  
 10; 3422.3; 15-DEC-2007 19:58:19; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30285  
 11; 3704.9; 15-DEC-2007 20:03:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30285  
 12; 4138.1; 15-DEC-2007 20:10:15; Bright; 40.5; 39; 85Eta UMa ; 1.85; 24000;occ; 81; 0;30285  
 13; 4337.2; 15-DEC-2007 20:13:34; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;30285  
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 15; 4727.4; 15-DEC-2007 20:20:05; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;30285  
 16; 5529.8; 15-DEC-2007 20:33:27; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;30285  
 17; 5632.2; 15-DEC-2007 20:35:09; Dark ; 42.0; 54; 5The Cen ; 2.06; 4500;occ; 84; 0;30285  
 18; 5723.9; 15-DEC-2007 20:36:41; Dark ; 41.5; 123; Iot Cen ; 2.75; 10200;occ; 83; 0;30285  
 19; 5813.2; 15-DEC-2007 20:38:10; Dark ; 37.0; 95; Zet Cen ; 2.55; 26000;occ; 74; 0;30285  
 20; 5971.0; 15-DEC-2007 20:40:48; Dark ; 39.5; 64; Gam Cen ; 2.20; 10600;occ; 79; 0;30285  
 21; 6083.2; 15-DEC-2007 20:42:40; Dark ; 37.5; 20; Bet Cru ; 1.25; 30000;occ; 75; 0;30285  
 22; 6342.4; 15-DEC-2007 20:47:00; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30285  
 23; 6447.2; 15-DEC-2007 20:48:44; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30285  
 24; 6527.2; 15-DEC-2007 20:50:04; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30285  
 25; 6608.1; 15-DEC-2007 20:51:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30285  
 26; 6937.0; 15-DEC-2007 20:56:54; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;30285

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 5; -64.3; 15-DEC-2007 22:21:25; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;30286  
 6; 47.7; 15-DEC-2007 22:23:17; Dark ; 39.0; 20; Bet Cru ; 1.25; 30000;occ; 78; 0;30287  
 7; 307.0; 15-DEC-2007 22:27:36; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30287  
 8; 411.7; 15-DEC-2007 22:29:21; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30287  
 9; 491.9; 15-DEC-2007 22:30:41; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30287  
 10; 572.9; 15-DEC-2007 22:32:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30287  
 11; 901.4; 15-DEC-2007 22:37:30; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;30287  
 12; 1263.8; 15-DEC-2007 22:43:33; Dark ; 41.0; 108; Alp Col ; 2.65; 15200;occ; 82; 0;30287  
 13; 1564.3; 15-DEC-2007 22:48:33; Dark ; 41.0; 101; 11Alp Lep ; 2.58; 7000;occ; 82; 0;30287  
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 17; 2450.8; 15-DEC-2007 23:03:20; Bright; 34.5; 150; 44Zet Per ; 2.89; 28000;occ; 69; 0;30287  
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 22; 3704.9; 15-DEC-2007 23:24:14; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30287  
 23; 4138.0; 15-DEC-2007 23:31:27; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;30287  
 24; 4337.4; 15-DEC-2007 23:34:46; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;30287  
 25; 4529.6; 15-DEC-2007 23:37:59; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;30287  
 26; 4727.9; 15-DEC-2007 23:41:17; Bright; 49.5; 111; 8Eta Boo ; 2.68; 6000;occ; 99; 0;30287

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5; -63.7; 16-DEC-2007 00:02:01; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;30287
6; 48.2; 16-DEC-2007 00:03:53; Dark ; 39.0; 20; Bet Cru ; 1.25; 30000;occ; 78; 0;30288
7; 307.4; 16-DEC-2007 00:08:12; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30288
8; 412.1; 16-DEC-2007 00:09:57; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30288
9; 492.5; 16-DEC-2007 00:11:17; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30288
10; 573.7; 16-DEC-2007 00:12:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30288
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14; 1749.8; 16-DEC-2007 00:32:15; Dark ; 48.5; 7; 19Bet Ori ; 0.10; 14000;occ; 97; 0;30288
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23; 4138.0; 16-DEC-2007 01:12:03; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;30288
24; 4337.7; 16-DEC-2007 01:15:23; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;30288
25; 4529.8; 16-DEC-2007 01:18:35; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;30288
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3; 1750.3; 16-DEC-2007 20:39:27; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;30300
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7; 2720.1; 16-DEC-2007 15:53:48; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;30297  
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9; 3422.3; 16-DEC-2007 16:05:31; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30297  
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11; 4137.6; 16-DEC-2007 16:17:26; Bright; 41.0; 39; 85Eta UMa ; 1.85; 24000;occ; 82; 0;30297  
12; 4338.5; 16-DEC-2007 16:20:47; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;30297  
13; 4531.3; 16-DEC-2007 16:24:00; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;30297  
14; 4694.8; 16-DEC-2007 16:26:43; Bright; 38.0; 3; 16Alp Boo ;-0.05; 4250;occ; 76; 0;30297  
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16; 5637.6; 16-DEC-2007 16:42:26; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;30297  
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22; 6453.3; 16-DEC-2007 16:56:02; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30297  
23; 6534.9; 16-DEC-2007 16:57:23; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30297  
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8; 2720.3; 16-DEC-2007 17:34:25; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;30298  
9; 2826.3; 16-DEC-2007 17:36:11; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;30298  
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13; 4338.4; 16-DEC-2007 18:01:23; Bright; 55.0; 180; 27Gam Boo ; 3.04; 8000;occ; 110; 0;30298  
14; 4531.4; 16-DEC-2007 18:04:36; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;30298  
15; 4695.1; 16-DEC-2007 18:07:19; Bright; 39.0; 3; 16Alp Boo ;-0.05; 4250;occ; 78; 0;30298  
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21; 6089.1; 16-DEC-2007 18:30:33; Dark ; 40.5; 20; Bet Cru ; 1.25; 30000;occ; 81; 0;30298  
22; 6349.2; 16-DEC-2007 18:34:53; Dark ; 36.0; 124; The Car ; 2.76; 30000;occ; 72; 0;30298  
23; 6453.8; 16-DEC-2007 18:36:38; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30298  
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9; 2826.4; 16-DEC-2007 19:16:47; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;30299  
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9; 3423.0; 27-DEC-2007 13:38:57; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30453
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13; 4533.4; 27-DEC-2007 13:57:27; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30453
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 26; 6995.5; 27-DEC-2007 16:19:05; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;30454

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13; 1588.8; 28-DEC-2007 02:33:10; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;30461  
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6; -867.2; 28-DEC-2007 05:13:26; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;30462  
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13; 381.7; 28-DEC-2007 05:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30463  
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18; 1308.1; 28-DEC-2007 05:49:41; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30463  
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5; 1879.4; 28-DEC-2007 21:04:36; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30472  
6; 2012.8; 28-DEC-2007 21:06:49; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30472  
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 25; 6569.4; 29-DEC-2007 20:10:33; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0;30485  
 26; 6645.8; 29-DEC-2007 20:11:49; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30485  
 27; 6744.5; 29-DEC-2007 20:13:28; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;30485  
 28; 7004.5; 29-DEC-2007 20:17:48; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;30485

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 3; -207.8; 29-DEC-2007 23:19:24; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30487  
 4; -125.1; 29-DEC-2007 23:20:46; Dark ; 39.0; 95; Zet Cen ; 2.55; 26000;occ; 78; 0;30487  
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 6; 211.3; 29-DEC-2007 23:26:23; Dark ; 38.5; 12; Alp1Cru ; 0.77; 30000;occ; 77; 0;30488  
 7; 389.1; 29-DEC-2007 23:29:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30488  
 8; 534.1; 29-DEC-2007 23:31:45; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;30488  
 9; 610.9; 29-DEC-2007 23:33:02; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30488  
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 11; 969.0; 29-DEC-2007 23:39:00; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;30488  
 12; 1313.4; 29-DEC-2007 23:44:45; Dark ; 39.5; 108; Alp Col ; 2.65; 15200;occ; 79; 0;30488  
 13; 1592.8; 29-DEC-2007 23:49:24; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;30488  
 14; 1765.5; 29-DEC-2007 23:52:17; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;30488  
 15; 1879.9; 29-DEC-2007 23:54:11; Dark ; 43.5; 30; 46Eps Ori ; 1.69; 30000;occ; 87; 0;30488  
 16; 2012.8; 29-DEC-2007 23:56:24; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30488  
 17; 2196.3; 29-DEC-2007 23:59:28; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30488  
 18; 2275.4; 30-DEC-2007 00:00:47; Dark ; 45.5; 176; 23Zet Tau ; 3.02; 22000;occ; 91; 0;30488  
 19; 2401.1; 30-DEC-2007 00:02:52; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0;30488  
 20; 2605.6; 30-DEC-2007 00:06:17; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;30488



21; 2696.7; 30-DEC-2007 00:07:48; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;30488  
 22; 3423.1; 30-DEC-2007 00:19:54; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30488  
 23; 3694.3; 30-DEC-2007 00:24:26; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;30488  
 24; 3920.1; 30-DEC-2007 00:28:11; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30488  
 25; 4416.2; 30-DEC-2007 00:36:28; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;30488  
 26; 4539.6; 30-DEC-2007 00:38:31; Bright; 54.0; 67; 5Alp CrB ; 2.22; 11000;occ; 108; 0;30488  
 27; 4880.3; 30-DEC-2007 00:44:12; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30488  
 28; 5178.9; 30-DEC-2007 00:49:10; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;30488  
 29; 5333.4; 30-DEC-2007 00:51:45; Dark ; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;30488

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 6; 211.9; 30-DEC-2007 01:06:59; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;30489  
 7; 389.4; 30-DEC-2007 01:09:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30489  
 8; 534.5; 30-DEC-2007 01:12:22; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30489  
 9; 611.4; 30-DEC-2007 01:13:39; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30489  
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 12; 1313.7; 30-DEC-2007 01:25:21; Dark ; 39.0; 108; Alp Col ; 2.65; 15200;occ; 78; 0;30489  
 13; 1592.9; 30-DEC-2007 01:30:00; Dark ; 40.0; 101; 11Alp Lep ; 2.58; 7000;occ; 80; 0;30489  
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 15; 1880.0; 30-DEC-2007 01:34:47; Dark ; 38.0; 30; 46Eps Ori ; 1.69; 30000;occ; 76; 0;30489  
 16; 2012.9; 30-DEC-2007 01:37:00; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;30489  
 17; 2196.4; 30-DEC-2007 01:40:04; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30489  
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 19; 2400.9; 30-DEC-2007 01:43:28; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30489  
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 21; 2696.5; 30-DEC-2007 01:48:24; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30489  
 22; 3423.2; 30-DEC-2007 02:00:30; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30489  
 23; 3694.3; 30-DEC-2007 02:05:01; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;30489  
 24; 3920.2; 30-DEC-2007 02:08:47; Bright; 3.0; 119; 14Eta Dra ; 2.73; 4700;occ; 6; 0;30489

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 9; -123.7; 30-DEC-2007 02:41:59; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30489  
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 27; 3423.3; 30-DEC-2007 03:41:06; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30490

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19; 1593.3; 30-DEC-2007 04:51:12; Dark ; 41.0; 101; 11Alp Lep ; 2.58; 7000;occ; 82; 0;30491  
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22; 2013.0; 30-DEC-2007 04:58:12; Dark ; 43.5; 27; 24Gam Ori ; 1.64; 26000;occ; 87; 0;30491  
23; 2196.7; 30-DEC-2007 05:01:16; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;30491  
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26; 2605.9; 30-DEC-2007 05:08:05; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30491  
27; 2696.4; 30-DEC-2007 05:09:35; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30491  
28; 3423.3; 30-DEC-2007 05:21:42; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30491

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19; 1593.4; 30-DEC-2007 06:31:49; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;30492  
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21; 1880.1; 30-DEC-2007 06:36:35; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;30492  
22; 2013.0; 30-DEC-2007 06:38:48; Dark ; 43.5; 27; 24Gam Ori ; 1.64; 26000;occ; 87; 0;30492  
23; 2196.9; 30-DEC-2007 06:41:52; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;30492  
24; 2274.7; 30-DEC-2007 06:43:10; Dark ; 47.5; 176; 23Zet Tau ; 3.02; 22000;occ; 95; 0;30492  
25; 2400.7; 30-DEC-2007 06:45:16; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30492  
26; 2606.3; 30-DEC-2007 06:48:41; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;30492  
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28; 3423.2; 30-DEC-2007 07:02:18; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30492  
29; 3694.0; 30-DEC-2007 07:06:49; Bright; 21.5; 60; 7Bet UMi ; 2.08; 3950;occ; 43; 0;30492

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3; 1594.6; 30-DEC-2007 19:56:37; Dark ; 40.0; 101; 11Alp Lep ; 2.58; 7000;occ; 80; 0;30500  
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