

GOMOS Daily Report 26-DEC-2007

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	27DEC2007 06:13:13
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START) (26DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (27DEC2007 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)

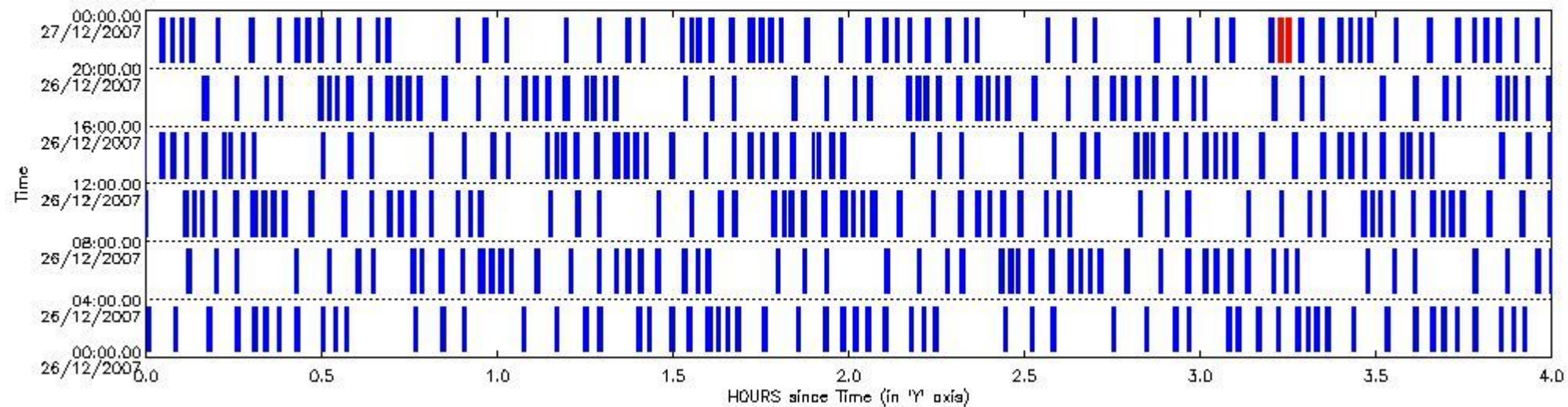
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

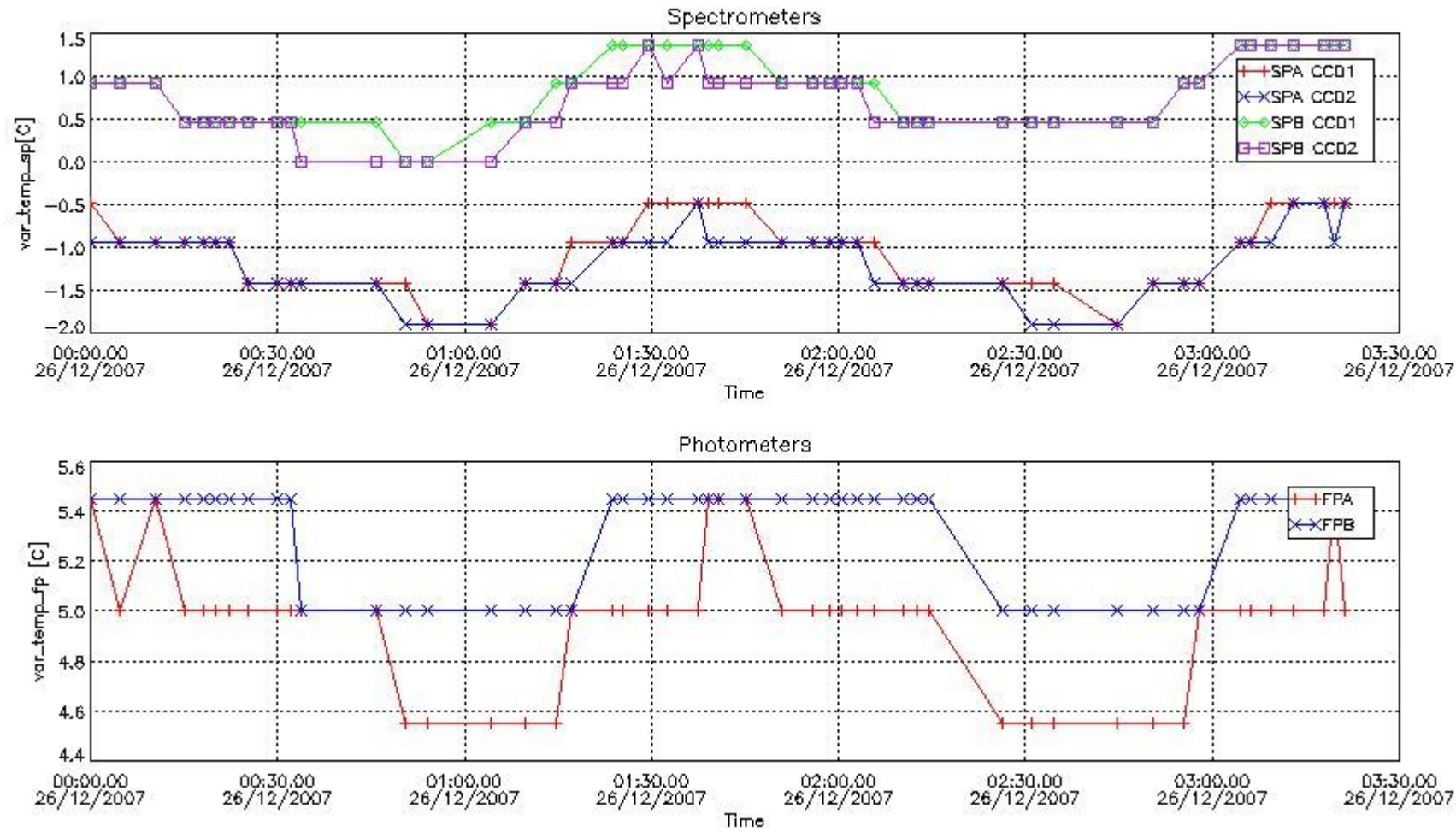
UTC start time	Star name	Star ID	Orbit
26-DEC-2007 23:13:20	AlpLup	78	30444
26-DEC-2007 23:14:36	ZetCen	95	30444

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_1PNPDE20071226_000006_000000442064_00317_30431_1865.N1	26-DEC-2007 00:00:06	Dark	44.000	41	Eps Car	1.8600	4100.0	88	30431	No
2	GOM_TRA_1PNPDE20071226_000435_000000442064_00317_30431_1866.N1	26-DEC-2007 00:04:35	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	30431	No
3	GOM_TRA_1PNPDE20071226_001024_000000402064_00317_30431_1867.N1	26-DEC-2007 00:10:24	Straylight	40.000	108	Alp Col	2.6520	15200.	80	30431	No
4	GOM_TRA_1PNPDE20071226_001508_000000442064_00317_30431_1868.N1	26-DEC-2007 00:15:08	Straylight	43.500	101	11Alp Lep	2.5820	7000.0	87	30431	No
5	GOM_TRA_1PNPDE20071226_001803_000000452064_00317_30431_1869.N1	26-DEC-2007 00:18:03	Straylight	45.000	7	19Bet Ori	0.10000	14000.	90	30431	No
6	GOM_TRA_1PNPDE20071226_002002_000000442064_00317_30431_1870.N1	26-DEC-2007 00:20:02	Straylight	44.000	30	46Eps Ori	1.6940	30000.	88	30431	No
7	GOM_TRA_1PNPDE20071226_002217_000000432064_00317_30431_1871.N1	26-DEC-2007 00:22:17	Twilight_stray	43.000	27	24Gam Ori	1.6360	26000.	86	30431	No
8	GOM_TRA_1PNPDE20071226_002514_000000522064_00317_30431_1872.N1	26-DEC-2007 00:25:14	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	30431	No
9	GOM_TRA_1PNPDE20071226_002948_000000372064_00317_30431_1873.N1	26-DEC-2007 00:29:48	Bright	36.500	150	44Zet Per	2.8900	28000.	73	30431	No

10	GOM_TRA_1PNPDE20071226_003200_000000362064_00317_30431_1874.N1	26-DEC-2007 00:32:00	Bright	35.500	149	45Eps Per	2.8880	30000.	71	30431	No
11	GOM_TRA_1PNPDE20071226_003349_000000432064_00317_30431_1875.N1	26-DEC-2007 00:33:49	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	30431	No
12	GOM_TRA_1PNPDE20071226_004546_000000352064_00317_30431_1876.N1	26-DEC-2007 00:45:46	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30431	No
13	GOM_TRA_1PNPDE20071226_005022_000000372064_00317_30431_1877.N1	26-DEC-2007 00:50:22	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30431	No
14	GOM_TRA_1PNPDE20071226_005359_000000352064_00317_30431_1878.N1	26-DEC-2007 00:53:59	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	30431	No
15	GOM_TRA_1PNPDE20071226_010413_000000362064_00317_30431_1879.N1	26-DEC-2007 01:04:13	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	30431	No
16	GOM_TRA_1PNPDE20071226_010949_000000342064_00317_30431_1880.N1	26-DEC-2007 01:09:49	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	30431	No
17	GOM_TRA_1PNPDE20071226_011441_000000402064_00317_30431_1881.N1	26-DEC-2007 01:14:41	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	30431	No
18	GOM_TRA_1PNPDE20071226_011708_000000422064_00317_30431_2005.N1	26-DEC-2007 01:17:08	Bright	41.500	122	9Alp2Lib	2.7470	9700.0	83	30431	No
19	GOM_TRA_1PNPDE20071226_012349_000000442064_00317_30431_2006.N1	26-DEC-2007 01:23:49	Dark	44.000	54	5The Cen	2.0550	4500.0	88	30431	No
20	GOM_TRA_1PNPDE20071226_012530_000000362064_00317_30431_2007.N1	26-DEC-2007 01:25:30	Dark	36.000	78	Alp Lup	2.3040	28000.	72	30431	No
21	GOM_TRA_1PNPDE20071226_012925_000000392064_00318_30432_2008.N1	26-DEC-2007 01:29:25	Dark	38.500	10	Bet Cen	0.61000	28000.	77	30432	No
22	GOM_TRA_1PNPDE20071226_013223_000000392064_00318_30432_2009.N1	26-DEC-2007 01:32:23	Dark	39.000	12	Alp1Cru	0.77500	30000.	78	30432	No
23	GOM_TRA_1PNPDE20071226_013723_000000392064_00318_30432_2010.N1	26-DEC-2007 01:37:23	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30432	No
24	GOM_TRA_1PNPDE20071226_013858_000000422064_00318_30432_2011.N1	26-DEC-2007 01:38:58	Dark	42.000	71	lot Car	2.2460	7700.0	84	30432	No
25	GOM_TRA_1PNPDE20071226_014042_000000472064_00318_30432_2012.N1	26-DEC-2007 01:40:42	Dark	47.000	41	Eps Car	1.8600	4100.0	94	30432	No
26	GOM_TRA_1PNPDE20071226_014512_000000442064_00318_30432_2013.N1	26-DEC-2007 01:45:12	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	30432	No
27	GOM_TRA_1PNPDE20071226_015100_000000382064_00318_30432_2014.N1	26-DEC-2007 01:51:00	Straylight	38.000	108	Alp Col	2.6520	15200.	76	30432	No
28	GOM_TRA_1PNPDE20071226_015544_000000432064_00318_30432_2015.N1	26-DEC-2007 01:55:44	Straylight	43.000	101	11Alp Lep	2.5820	7000.0	86	30432	No
29	GOM_TRA_1PNPDE20071226_015839_000000442064_00318_30432_2016.N1	26-DEC-2007 01:58:39	Straylight	43.500	7	19Bet Ori	0.10000	14000.	87	30432	No
30	GOM_TRA_1PNPDE20071226_020038_000000462064_00318_30432_2017.N1	26-DEC-2007 02:00:38	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	30432	No
31	GOM_TRA_1PNPDE20071226_020253_000000452064_00318_30432_2018.N1	26-DEC-2007 02:02:53	Tw_i_and_stray	45.000	27	24Gam Ori	1.6360	26000.	90	30432	No
32	GOM_TRA_1PNPDE20071226_020550_000000512064_00318_30432_2019.N1	26-DEC-2007 02:05:50	Bright	51.000	13	87Alp Tau	0.86700	3800.0	102	30432	No
33	GOM_TRA_1PNPDE20071226_021024_000000372064_00318_30432_2020.N1	26-DEC-2007 02:10:24	Bright	36.500	150	44Zet Per	2.8900	28000.	73	30432	No
34	GOM_TRA_1PNPDE20071226_021236_000000342064_00318_30432_2021.N1	26-DEC-2007 02:12:36	Bright	34.000	149	45Eps Per	2.8880	30000.	68	30432	No
35	GOM_TRA_1PNPDE20071226_021424_000000442064_00318_30432_2022.N1	26-DEC-2007 02:14:24	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	30432	No
36	GOM_TRA_1PNPDE20071226_022622_000000332064_00318_30432_2023.N1	26-DEC-2007 02:26:22	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30432	No
37	GOM_TRA_1PNPDE20071226_023058_000000382064_00318_30432_2208.N1	26-DEC-2007 02:30:58	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30432	No
38	GOM_TRA_1PNPDE20071226_023435_000000362064_00318_30432_2209.N1	26-DEC-2007 02:34:35	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	30432	No
39	GOM_TRA_1PNPDE20071226_024449_000000362064_00318_30432_2210.N1	26-DEC-2007 02:44:49	Bright	35.500	67	5Alp CrB	2.2210	11000.	71	30432	No
40	GOM_TRA_1PNPDE20071226_025025_000000342064_00318_30432_2211.N1	26-DEC-2007 02:50:25	Bright	34.000	102	24Alp Ser	2.6000	4250.0	68	30432	No
41	GOM_TRA_1PNPDE20071226_025517_000000532064_00318_30432_2212.N1	26-DEC-2007 02:55:17	Bright	53.000	104	27Bet Lib	2.6140	13100.	106	30432	No
42	GOM_TRA_1PNPDE20071226_025745_000000402064_00318_30432_2213.N1	26-DEC-2007 02:57:45	Bright	39.500	122	9Alp2Lib	2.7470	9700.0	79	30432	No
43	GOM_TRA_1PNPDE20071226_030426_000000522064_00318_30432_2214.N1	26-DEC-2007 03:04:26	Dark	52.000	54	5The Cen	2.0550	4500.0	104	30432	No
44	GOM_TRA_1PNPDE20071226_030606_000000412064_00318_30432_2215.N1	26-DEC-2007 03:06:06	Dark	40.500	78	Alp Lup	2.3040	28000.	81	30432	No
45	GOM_TRA_1PNPDE20071226_030929_000000522064_00318_30432_2216.N1	26-DEC-2007 03:09:29	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	30432	No
46	GOM_TRA_1PNPDE20071226_031300_000000412064_00319_30433_2217.N1	26-DEC-2007 03:13:00	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	30433	No
47	GOM_TRA_1PNPDE20071226_031800_000000382064_00319_30433_2218.N1	26-DEC-2007 03:18:00	Dark	38.000	159	Ups Car	2.9200	7200.0	76	30433	No
48	GOM_TRA_1PNPDE20071226_031935_000000402064_00319_30433_2219.N1	26-DEC-2007 03:19:35	Dark	40.000	71	lot Car	2.2460	7700.0	80	30433	No
49	GOM_TRA_1PNPDE20071226_032118_000000522064_00319_30433_2220.N1	26-DEC-2007 03:21:18	Dark	51.500	41	Eps Car	1.8600	4100.0	103	30433	No

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



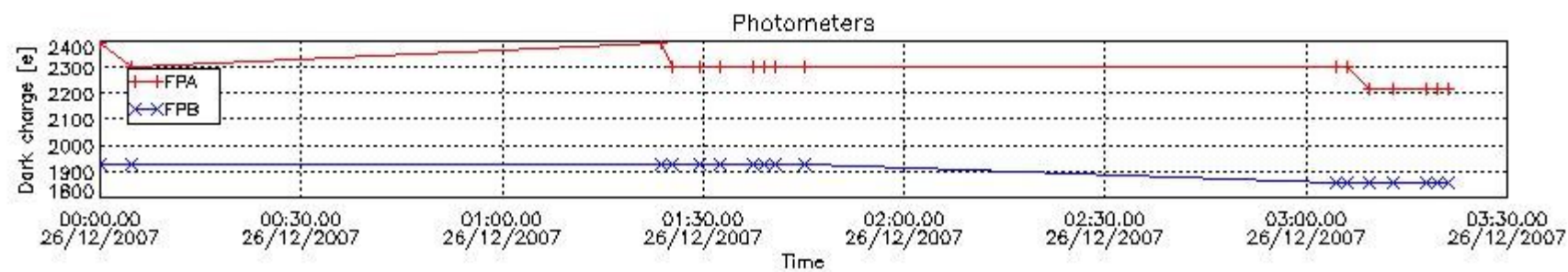
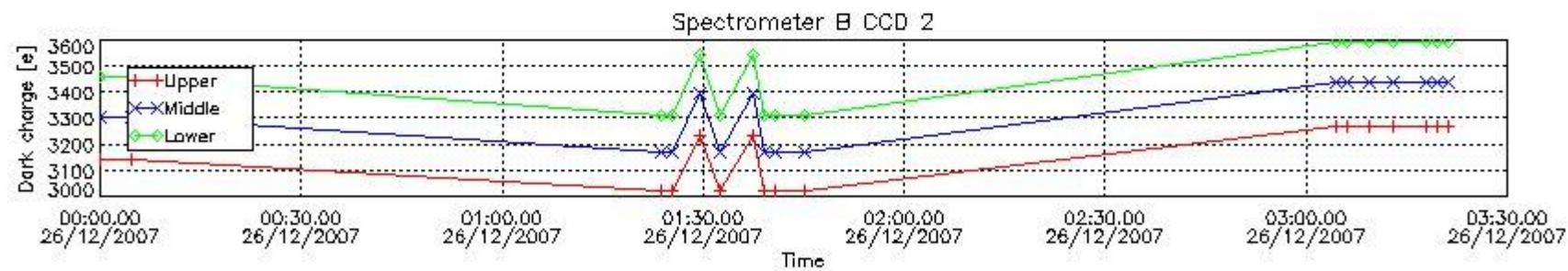
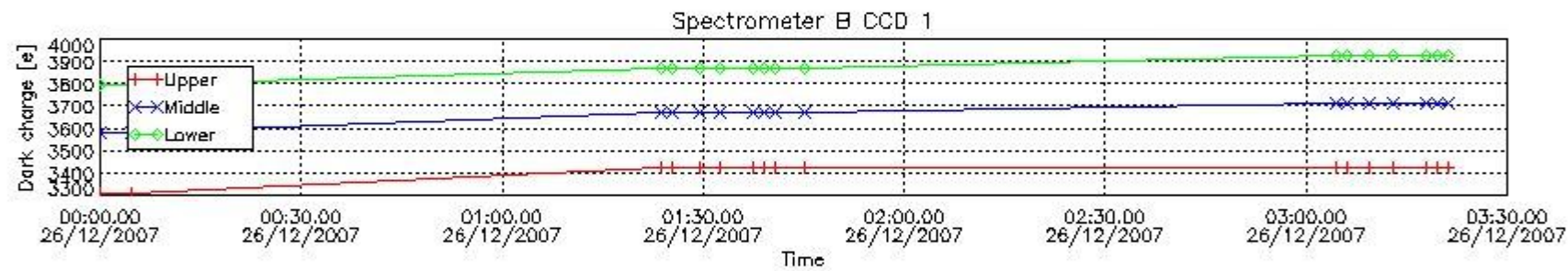
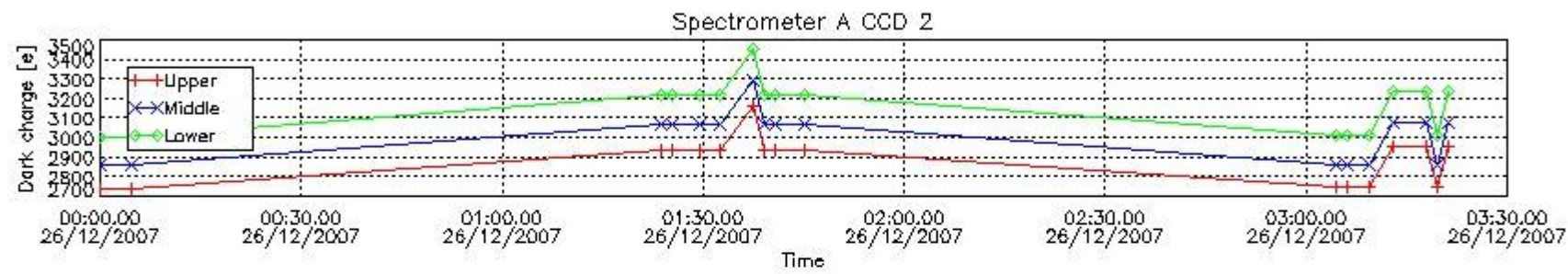
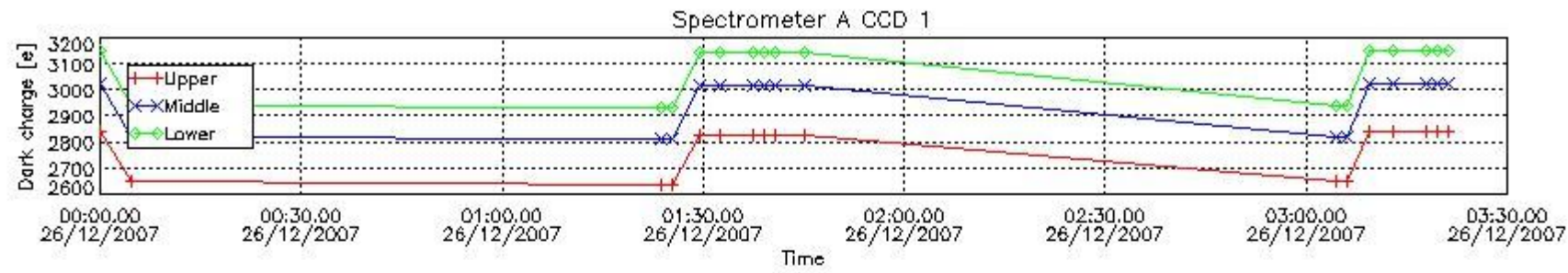
4. Overview of dark signal processing per product

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



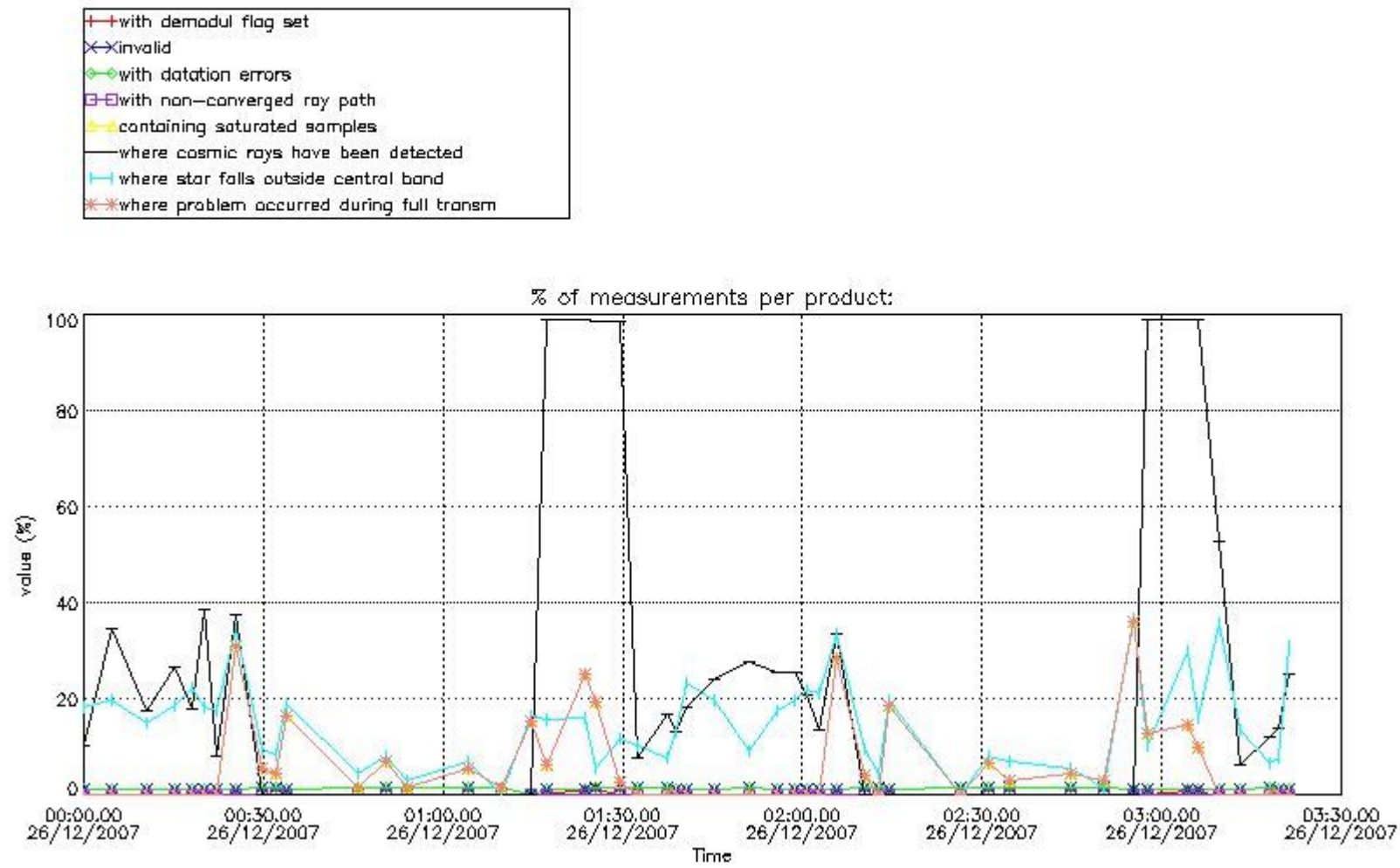
5. Demodulation flag and quality information monitoring

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.

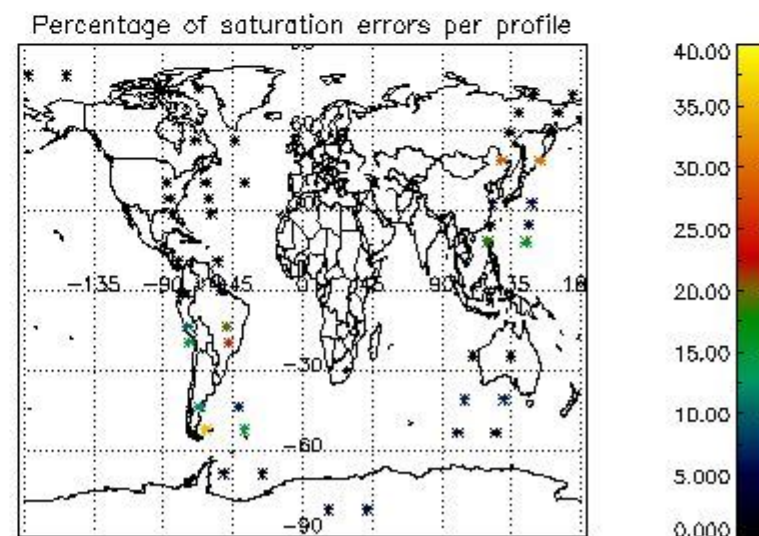
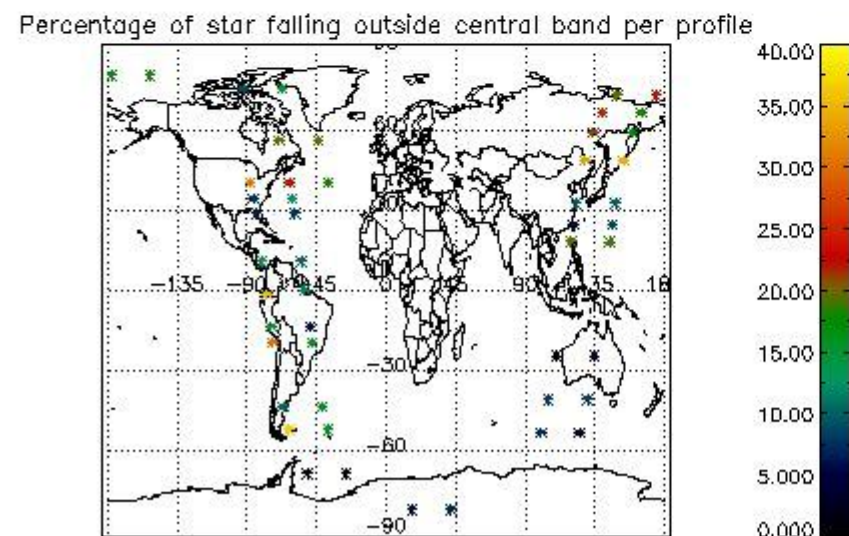
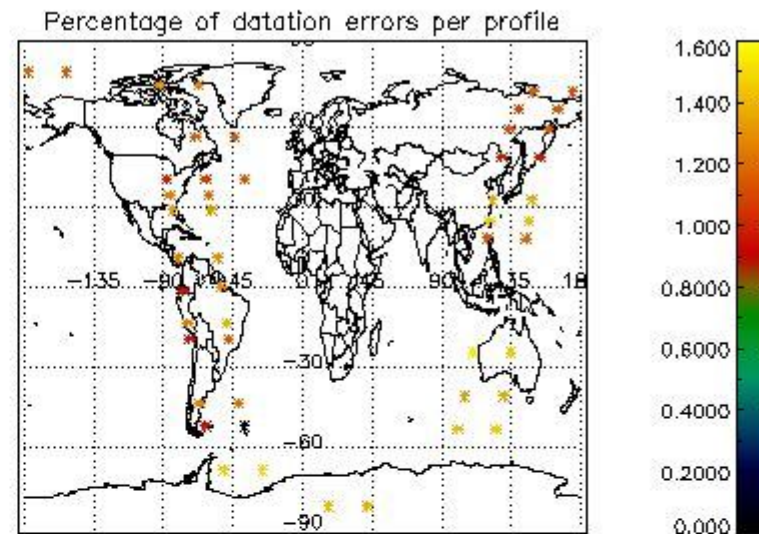
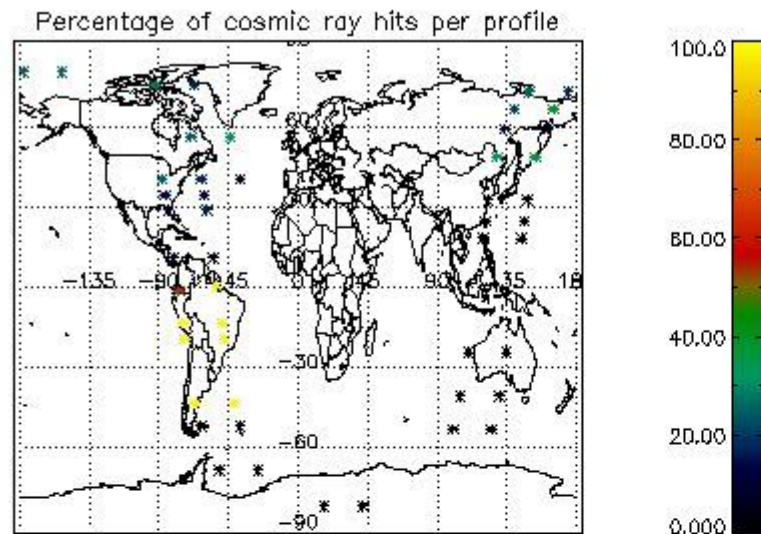
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.2041 %
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)



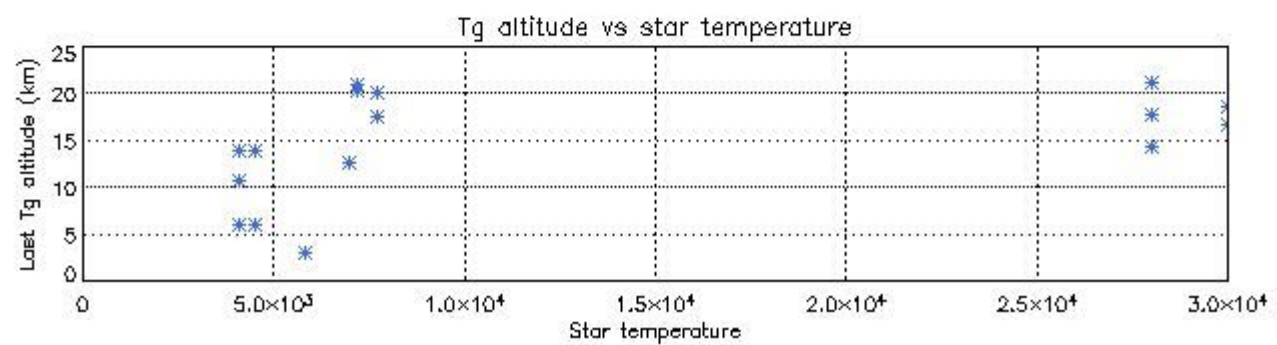
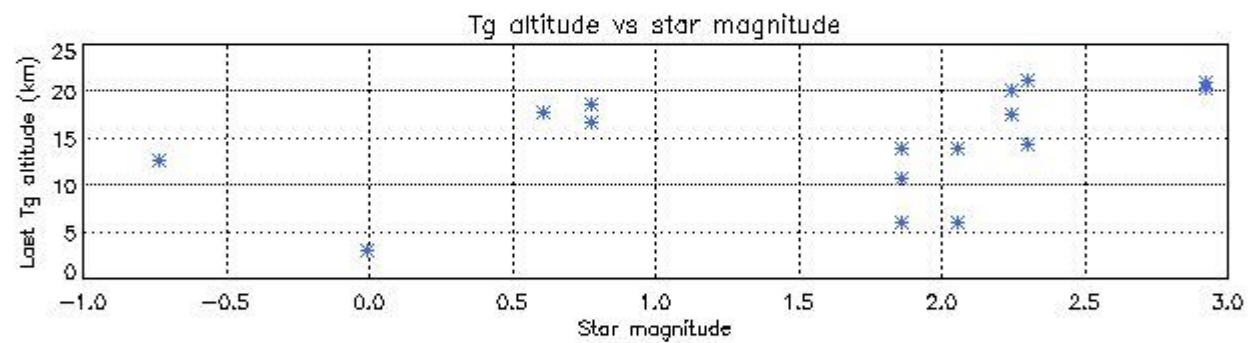
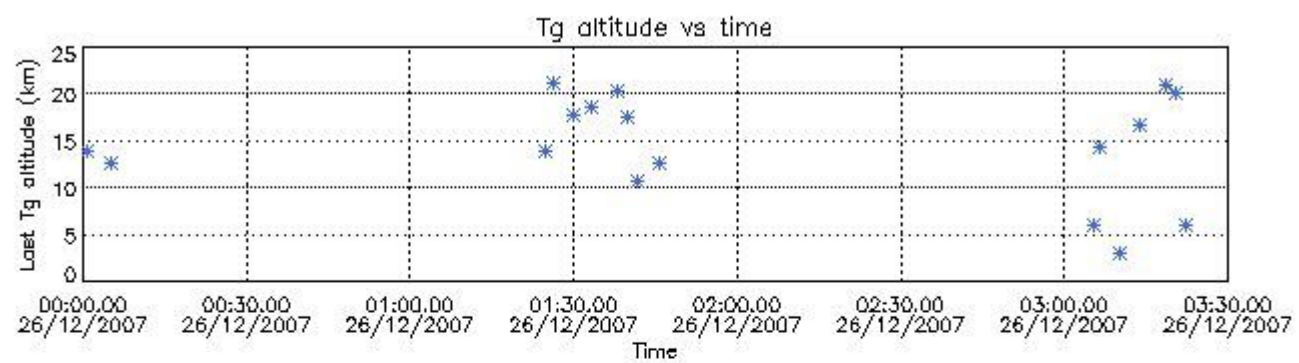
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.455	18.099	NaN
St. deviation:	5.5324	6.7197	NaN
Maximum:	21.141	28.708	NaN
Minimum:	2.9980	4.0958	NaN
Number of data:	17.000	22.000	NaN

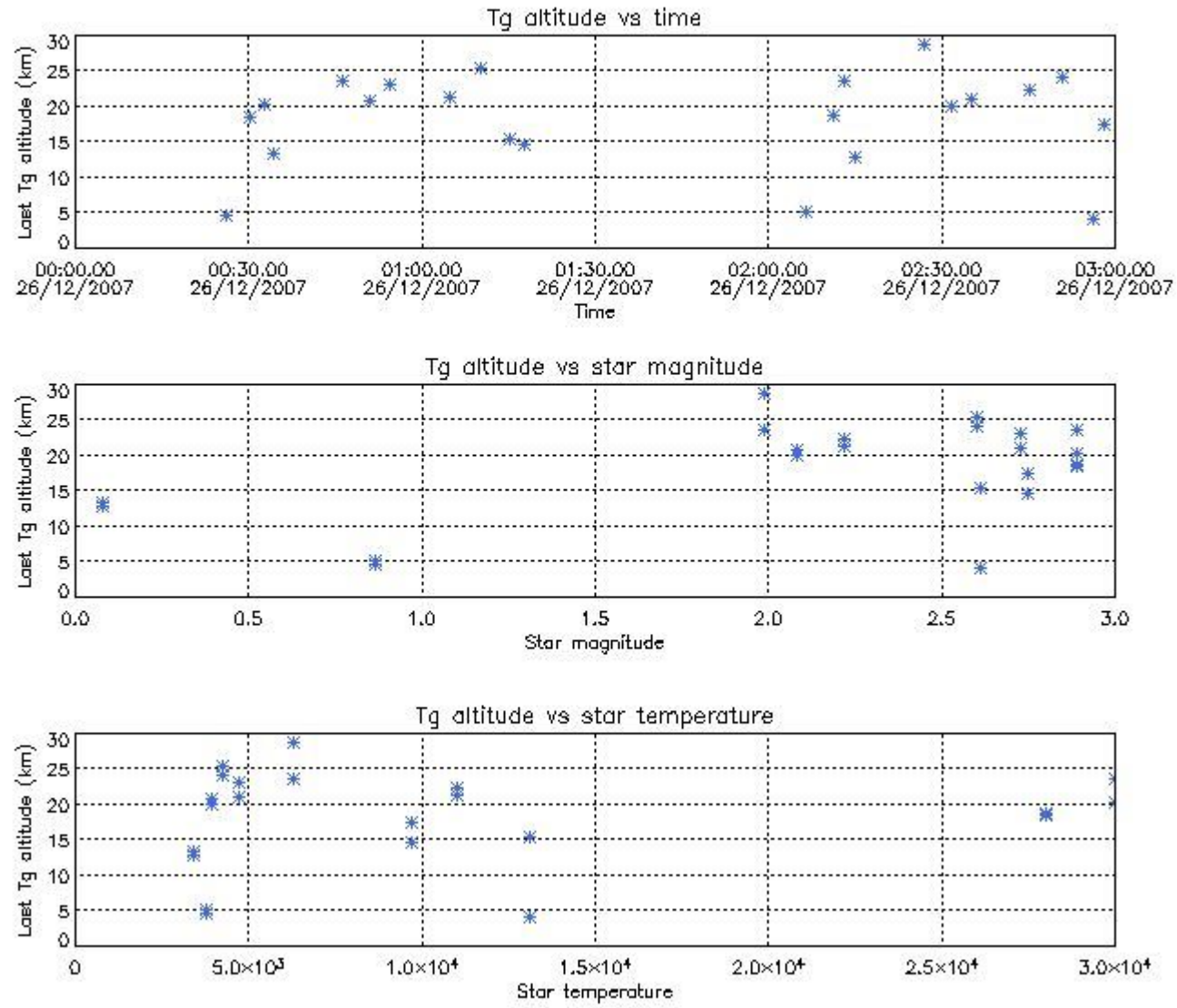
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

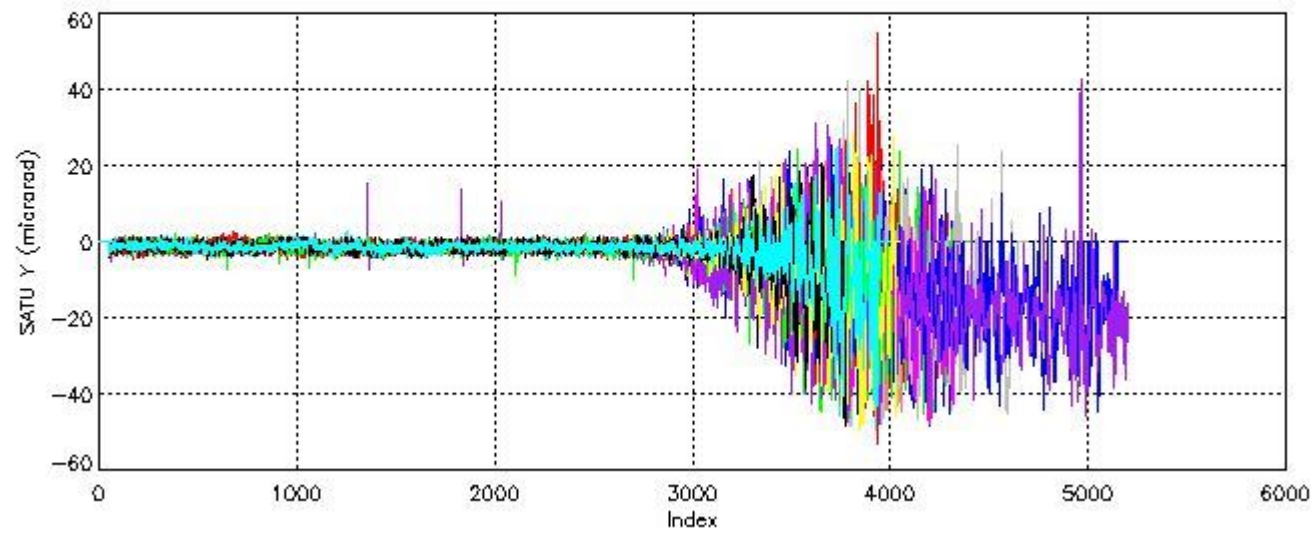
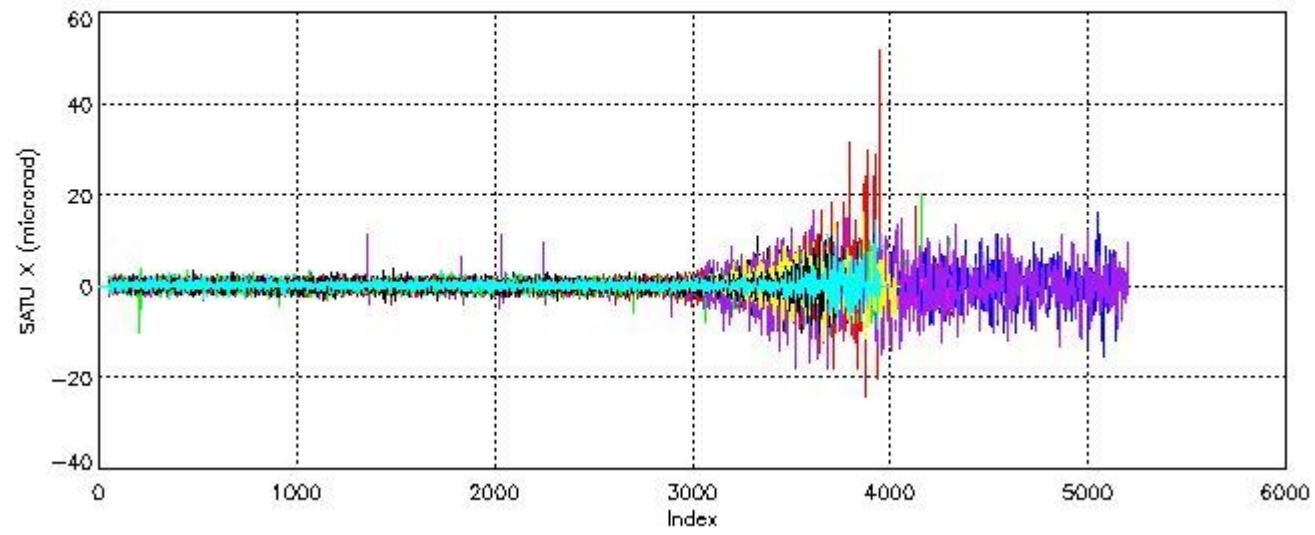


7. Star Acquisition and Tracking Unit (SATU)

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:	0.12928	-1.3145	0.066273	-1.3065
St. deviation:	0.42431	0.70672	0.75590	1.0695
Maximum:	3.9000	2.3000	5.7000	4.3000
Minimum:	-10.100	-7.3000	-5.3000	-8.0000

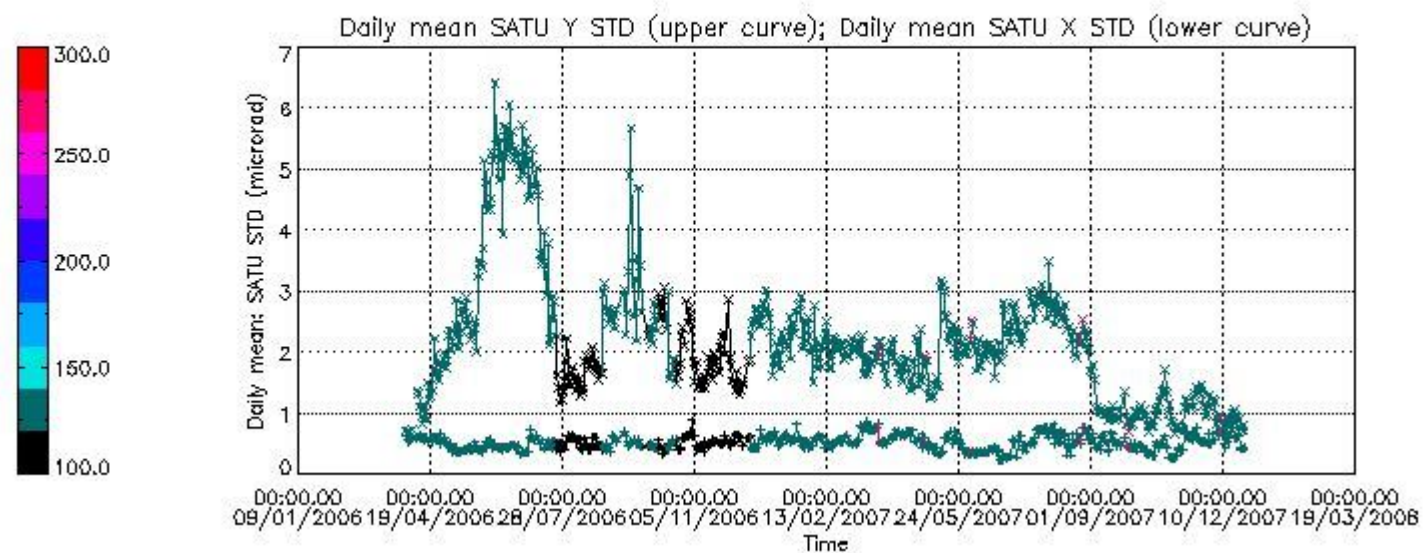
Number of data:	15400.	15400.	18300.	18300.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

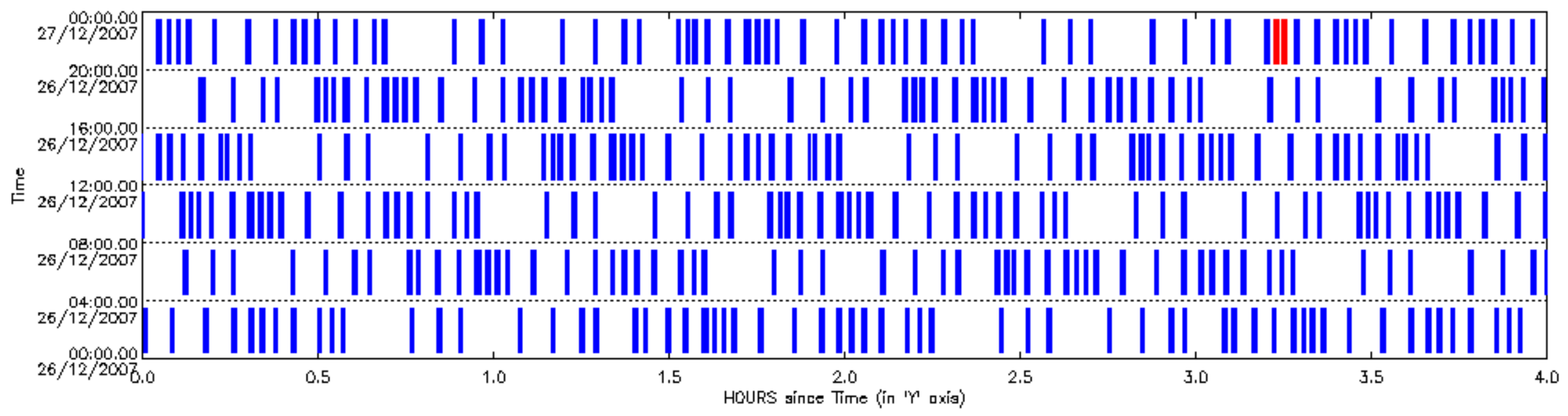
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

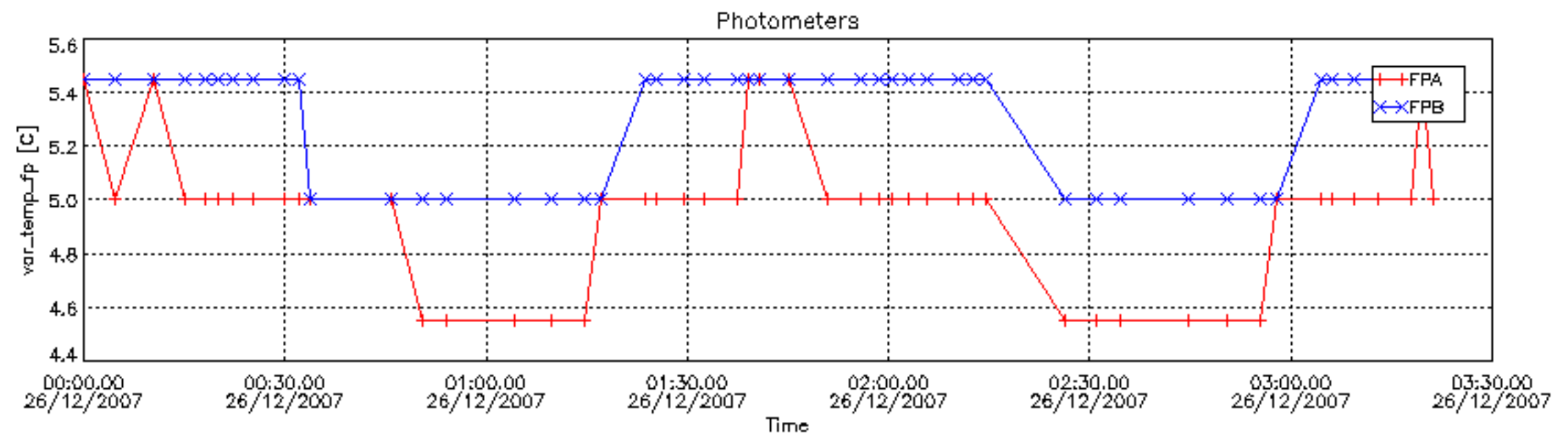
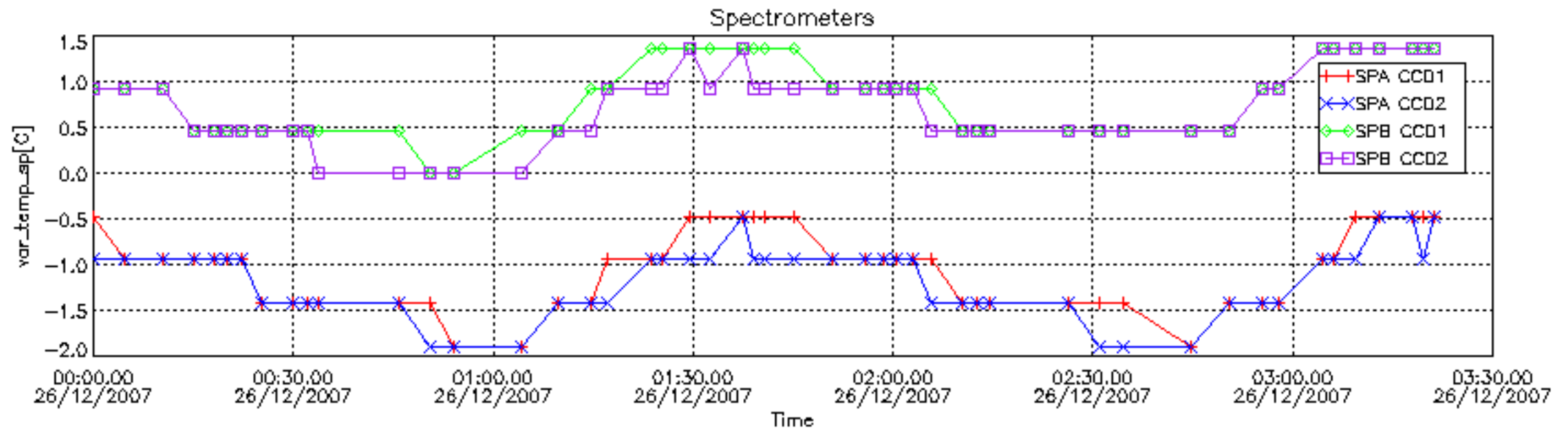


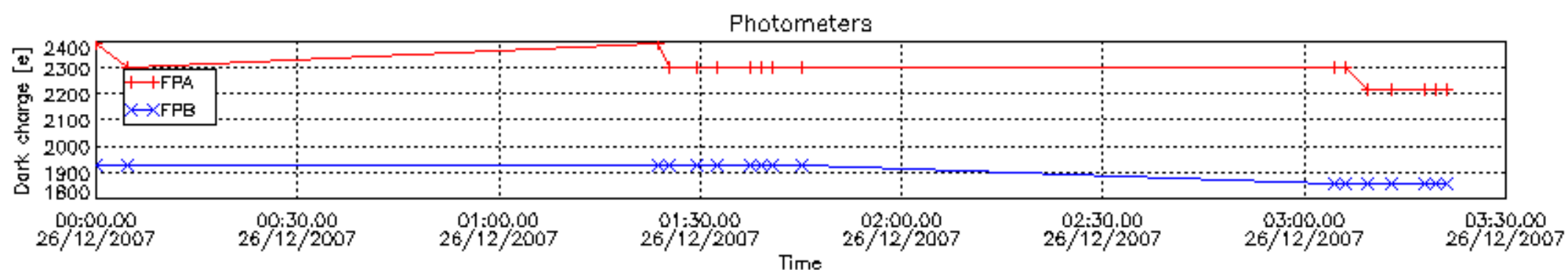
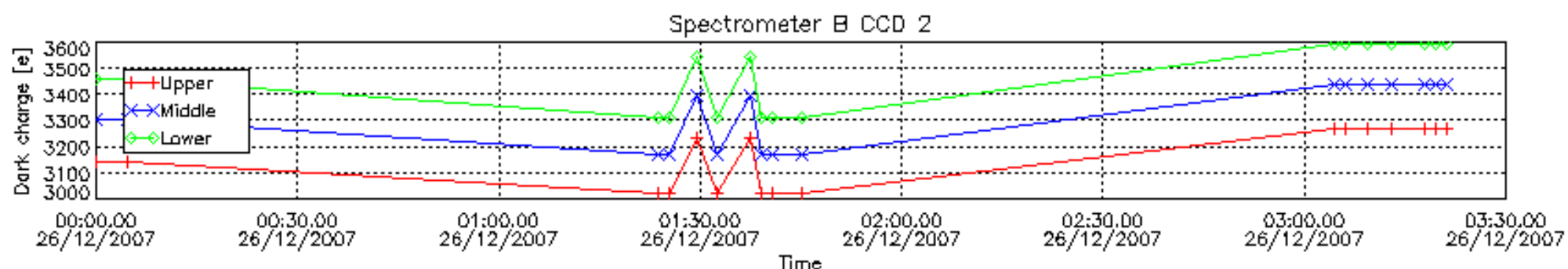
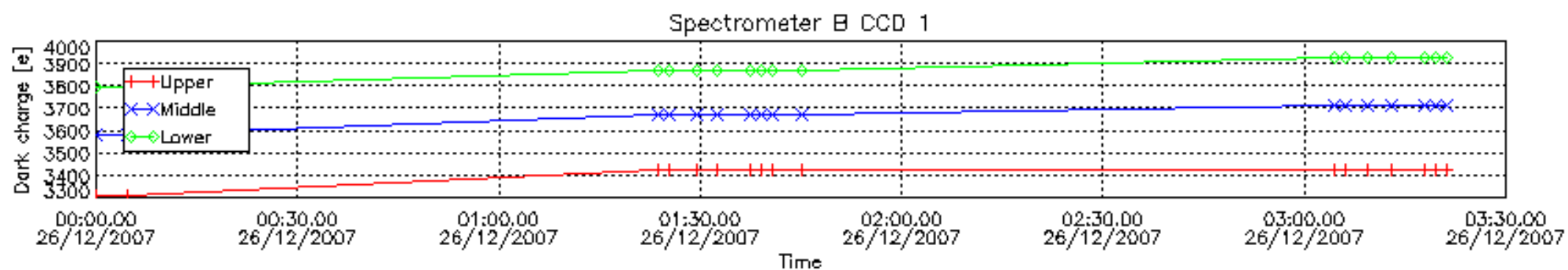
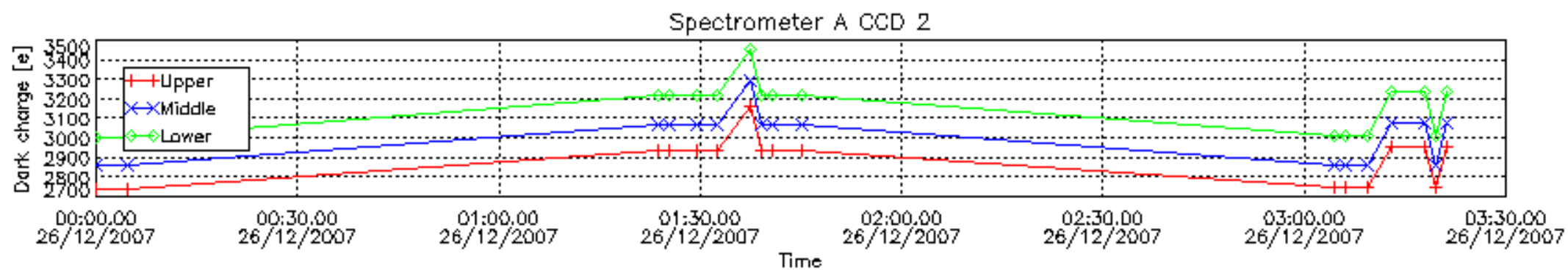
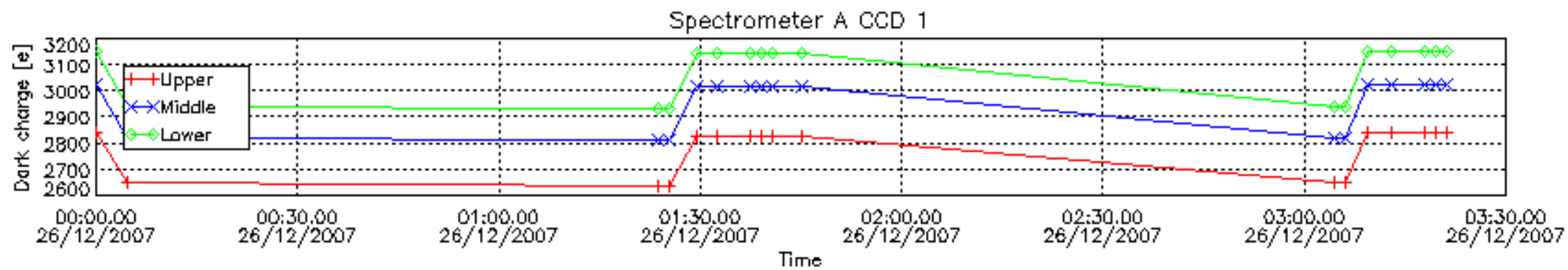
8. Auxiliary Data Files used for the production reported in section 2.4

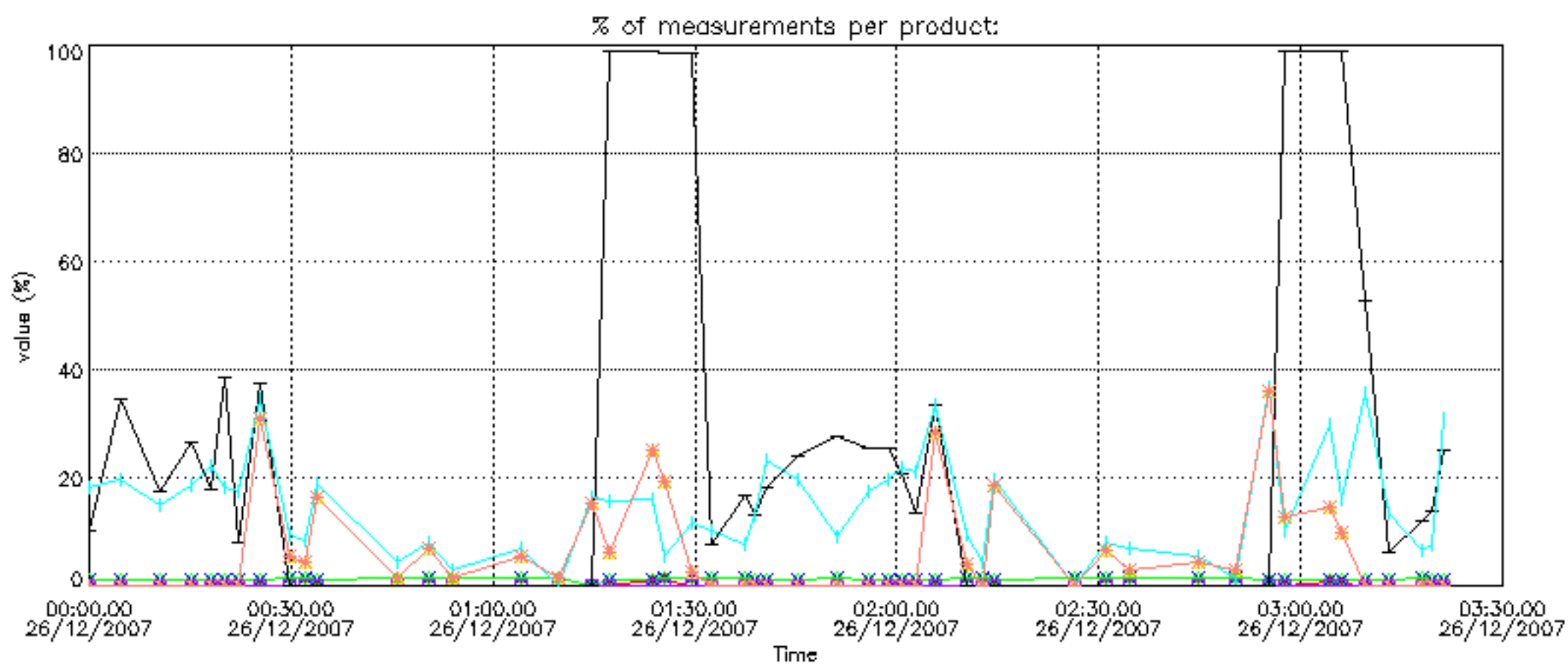
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	26-DEC-2007 00:00:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000	1	26-DEC-2007 00:00:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	26-DEC-2007 00:00:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-DEC-2007 00:00:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	26-DEC-2007 00:00:06
ECMWF_FILE	AUX_ECF_AXNECM20071225_073112_20071225_210000_20071226_090000	1	26-DEC-2007 00:00:06
OPTIONAL_ECMWF_FILE	MISSING	1	26-DEC-2007 00:00:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071225_215218_000057382064_00315_30429_4822.N1	1	26-DEC-2007 00:00:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071225_233315_000057382064_00316_30430_4823.N1	18	26-DEC-2007 01:17:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071226_011412_000041442064_00317_30431_4824.N1	37	26-DEC-2007 02:30:58

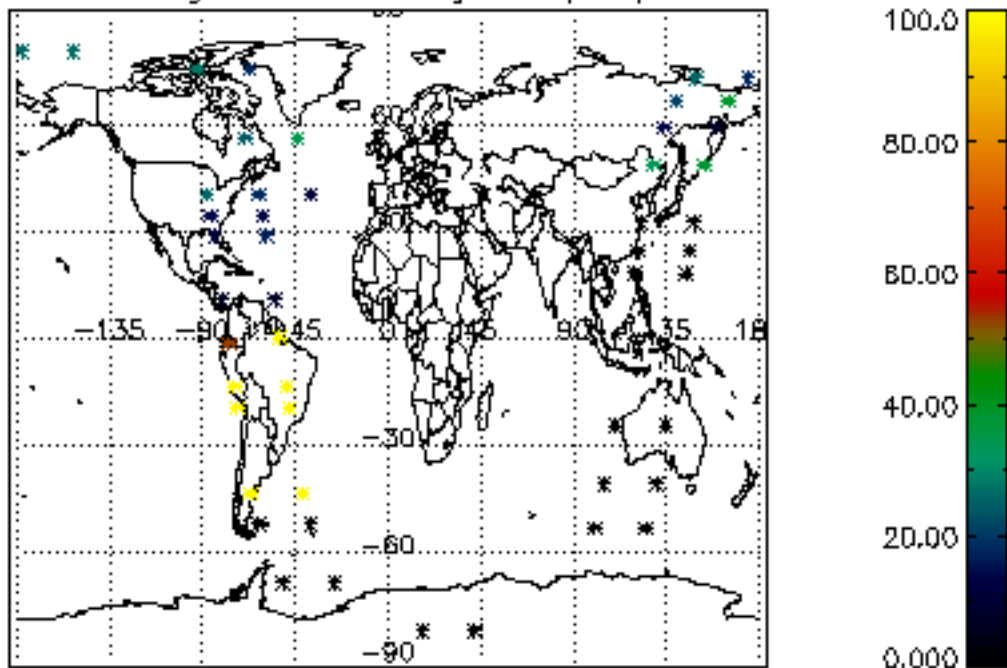




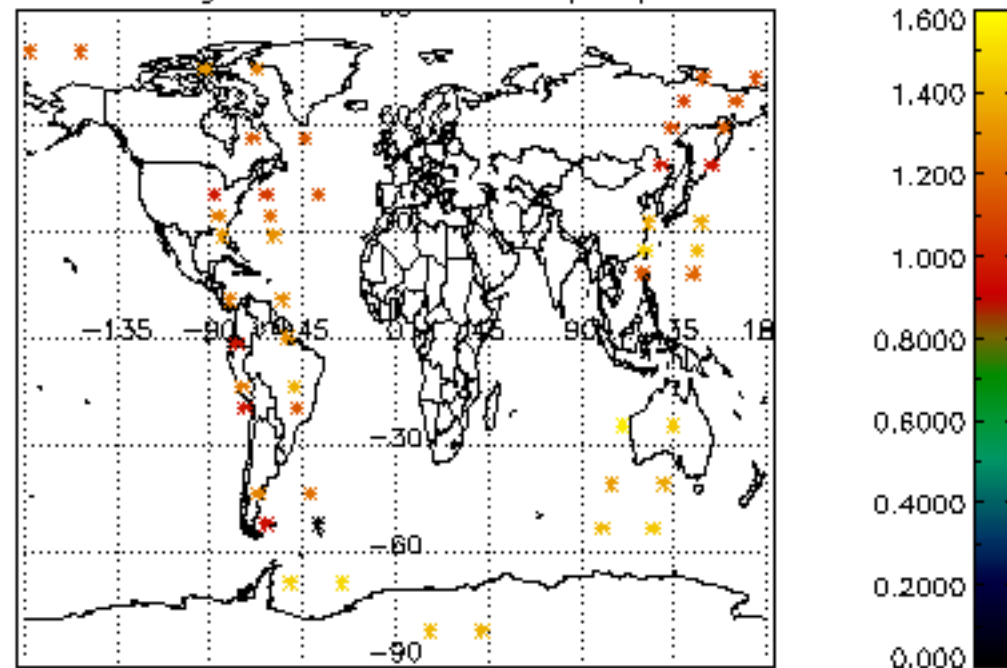




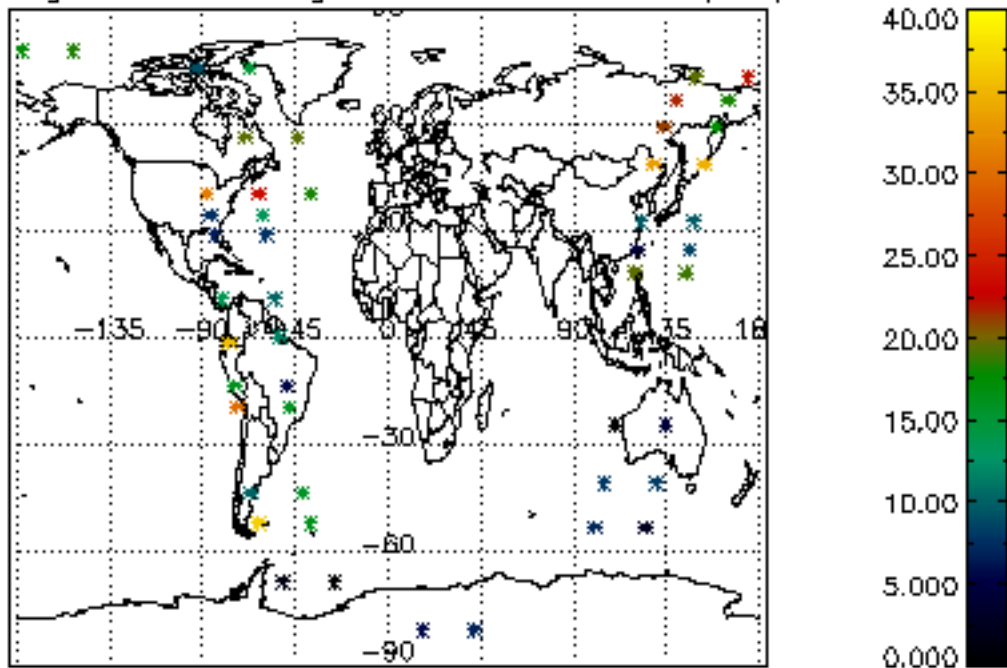
Percentage of cosmic ray hits per profile



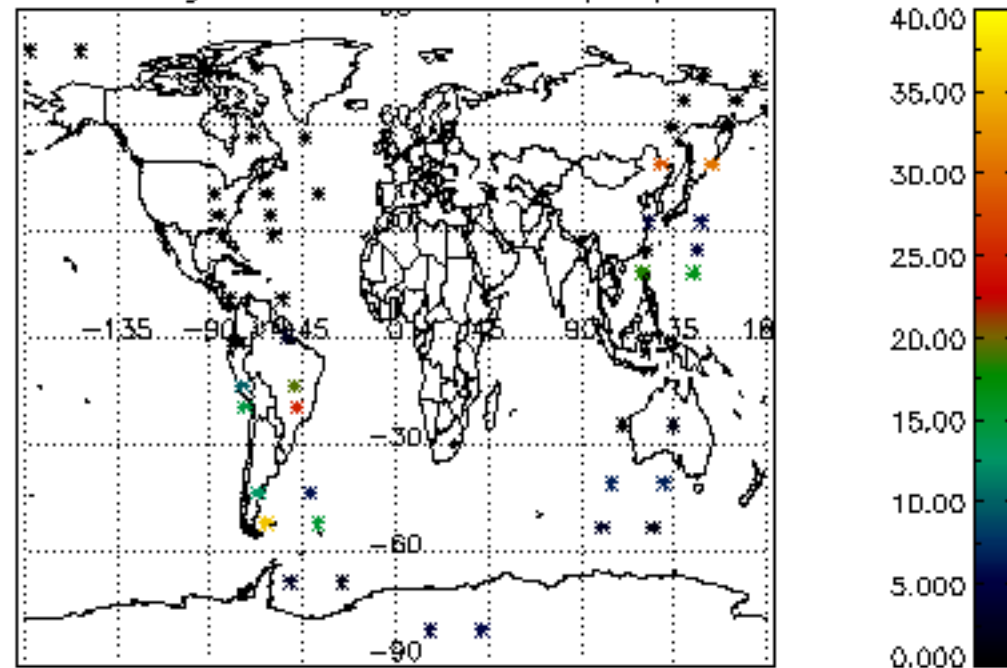
Percentage of datation errors per profile



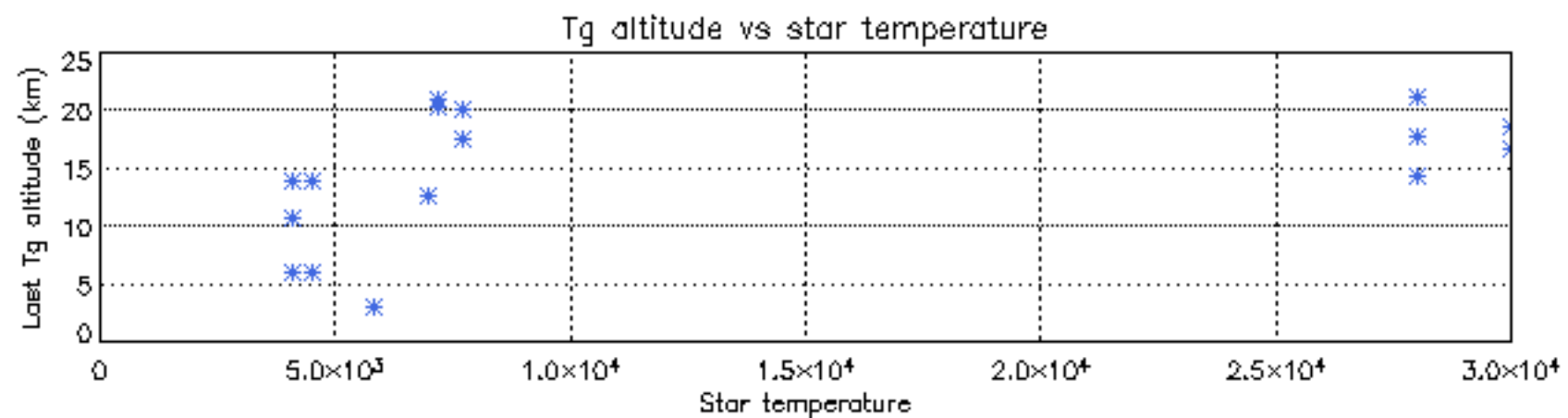
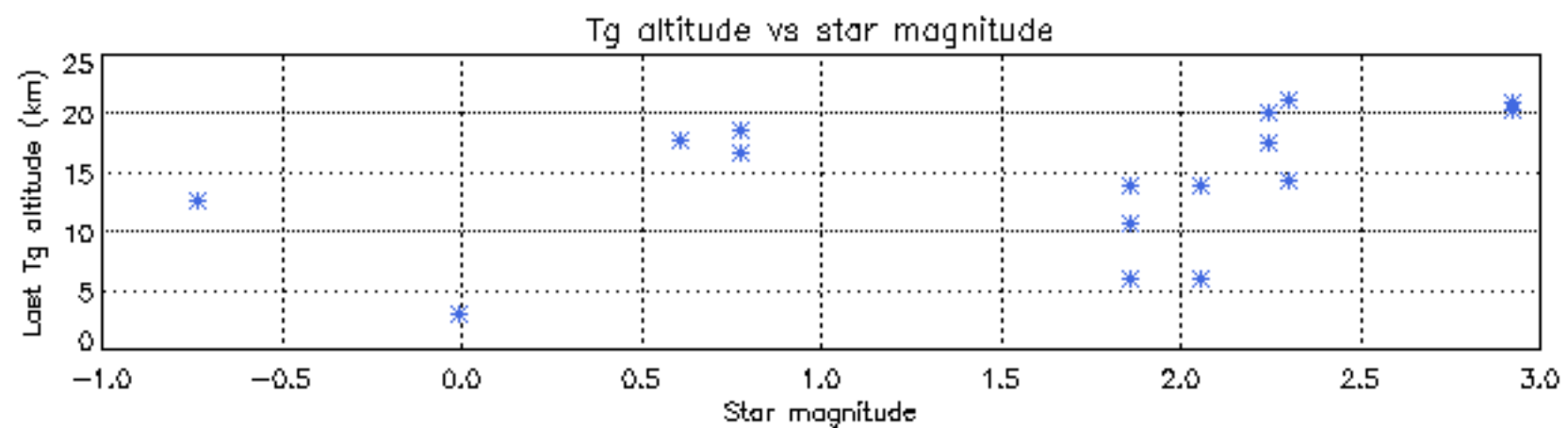
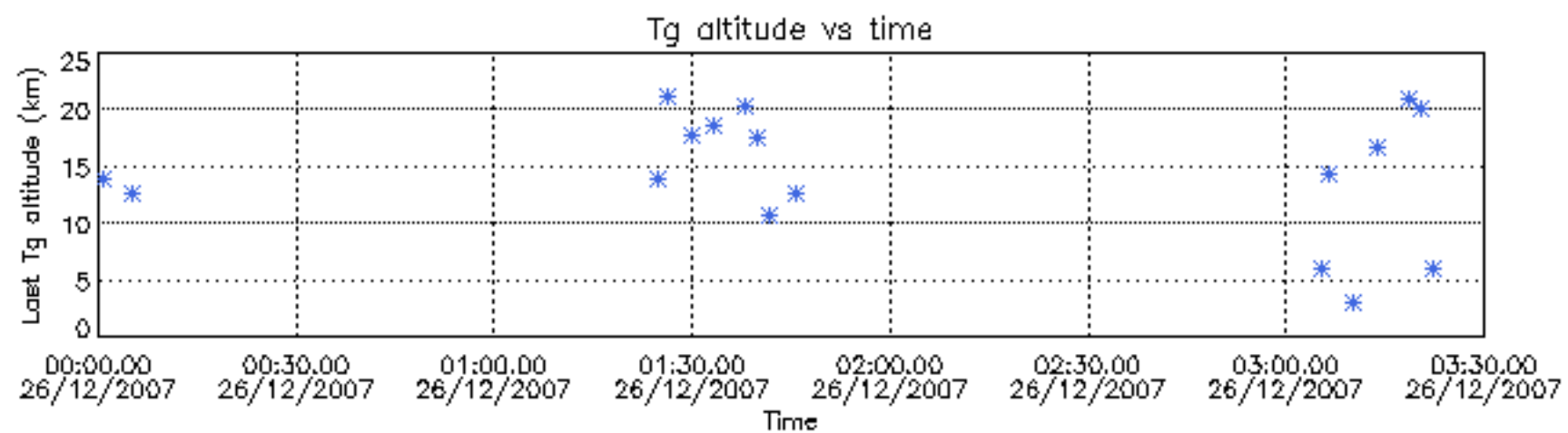
Percentage of star falling outside central band per profile



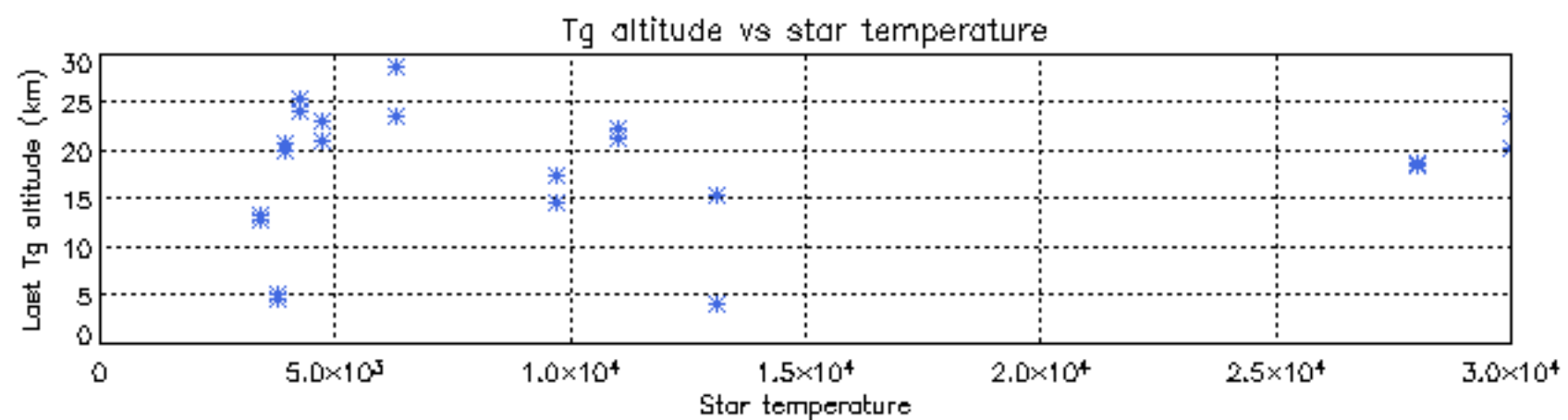
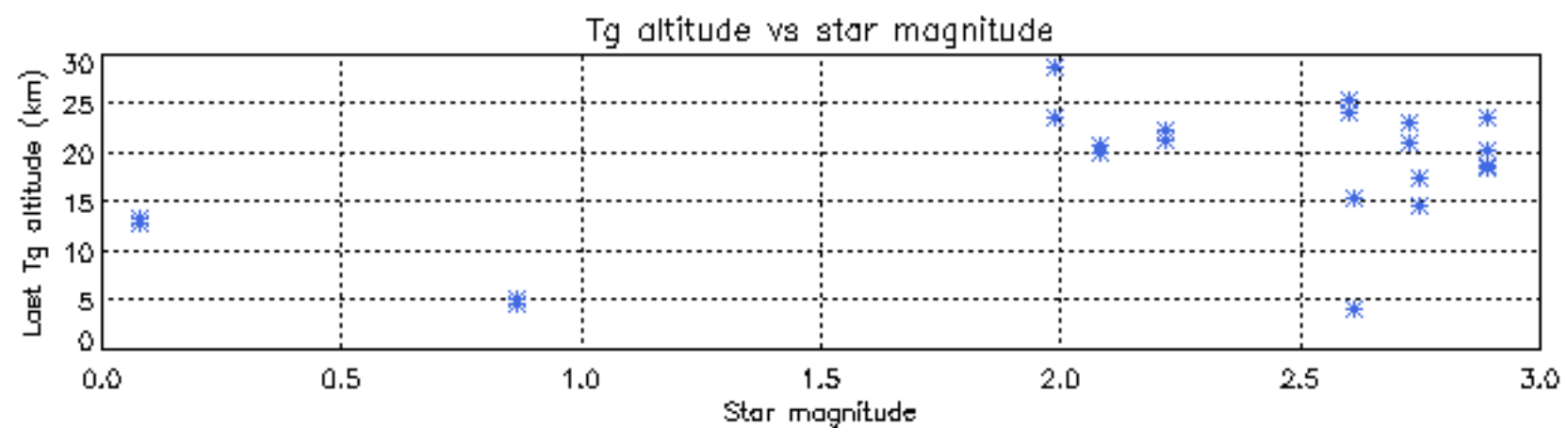
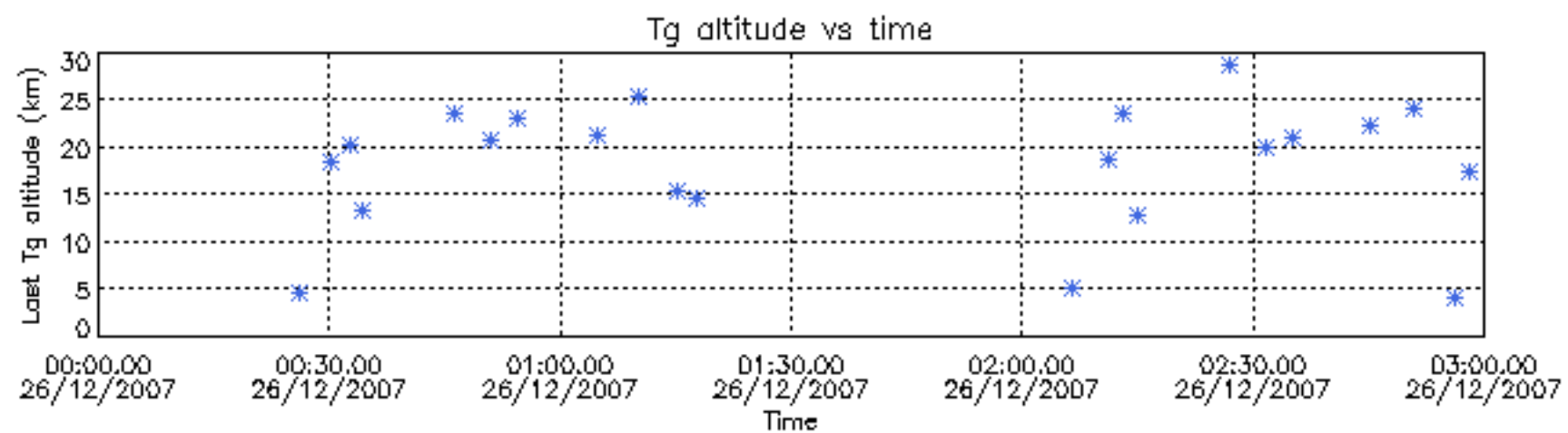
Percentage of saturation errors per profile

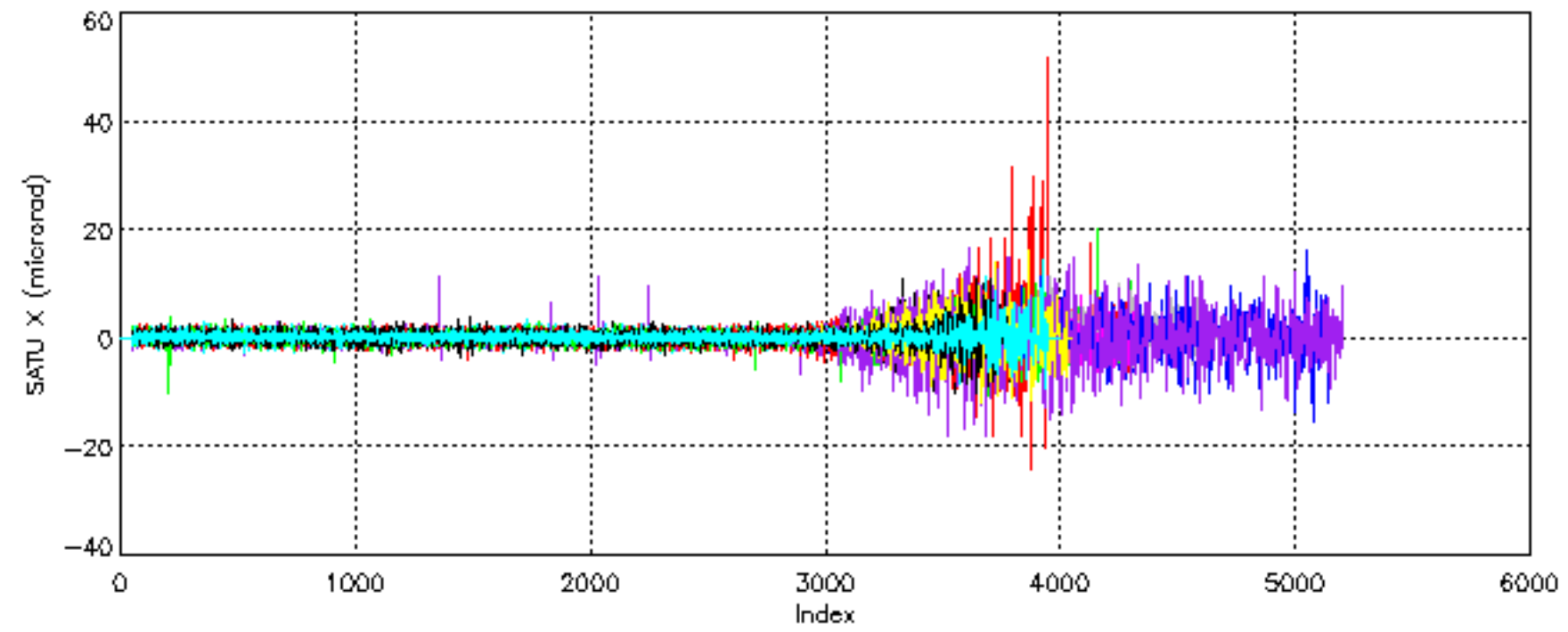


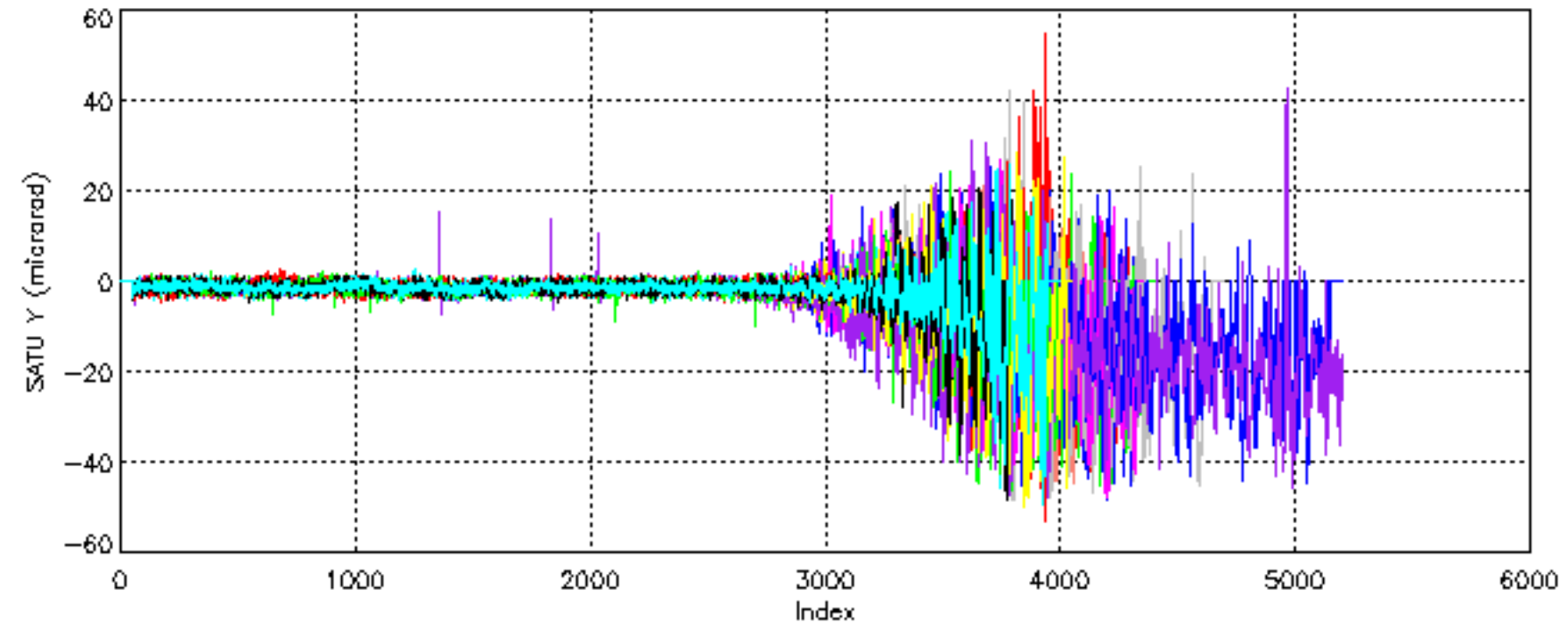
Tangent altitude at which the star is lost

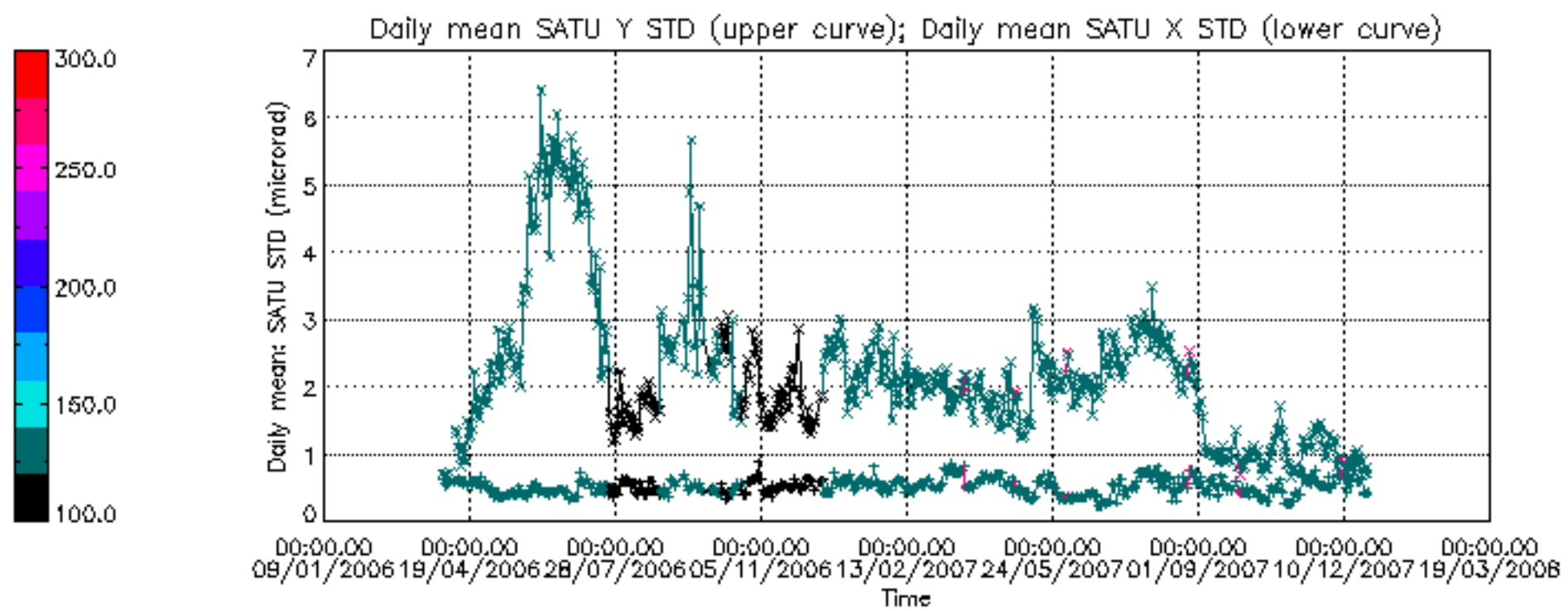


Tangent altitude at which the star is lost









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12; 204.3; 11-DEC-2007 07:46:22; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;30221
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23; 6402.8; 24-DEC-2007 17:44:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30412
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25; 6604.1; 24-DEC-2007 17:47:25; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;30412

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14; 3914.3; 24-DEC-2007 18:43:11; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30413
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16; 4861.5; 24-DEC-2007 18:58:58; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30413
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23; 3914.5; 25-DEC-2007 01:25:35; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30417
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16; 2013.9; 25-DEC-2007 02:34:30; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;30418
17; 2190.0; 25-DEC-2007 02:37:26; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;30418
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```

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15; 5301.8; 25-DEC-2007 13:32:54; Bright; 38.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 76; 0;30424
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7; 2595.8; 25-DEC-2007 14:28:23; Bright; 33.0; 149; 45Eps Per ; 2.89; 30000;occ; 66; 0;30425
8; 2706.6; 25-DEC-2007 14:30:14; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30425
9; 3422.9; 25-DEC-2007 14:42:11; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30425
10; 3699.3; 25-DEC-2007 14:46:47; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30425
11; 3915.3; 25-DEC-2007 14:50:23; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30425
12; 4528.6; 25-DEC-2007 15:00:36; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30425
13; 4864.6; 25-DEC-2007 15:06:12; Bright; 51.5; 102; 24Alp Ser ; 2.60; 4250;occ; 103; 0;30425
14; 5155.5; 25-DEC-2007 15:11:03; Bright; 34.0; 104; 27Bet Lib ; 2.61; 13100;occ; 68; 0;30425
15; 5302.4; 25-DEC-2007 15:13:30; Bright; 40.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 80; 0;30425

```

16; 5702.8; 25-DEC-2007 15:20:10; Dark ; 48.5; 54; 5The Cen ; 2.06; 4500;occ; 97; 0;30425
 17; 5804.2; 25-DEC-2007 15:21:52; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30425
 18; 6039.3; 25-DEC-2007 15:25:47; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;30425
 19; 6217.0; 25-DEC-2007 15:28:45; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30425
 20; 6406.6; 25-DEC-2007 15:31:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30425
 21; 6517.2; 25-DEC-2007 15:33:45; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30425
 22; 6611.6; 25-DEC-2007 15:35:19; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30425
 23; 6715.9; 25-DEC-2007 15:37:04; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;30425
 24; 6986.5; 25-DEC-2007 15:41:34; Dark ; 38.5; 2; Alp Car ; -0.74; 7000;occ; 77; 0;30425
 25; 7335.8; 25-DEC-2007 15:47:23; Dark ; 39.0; 108; Alp Col ; 2.65; 15200;occ; 78; 0;30425

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071225_154723_000057402064_00312_30426_9712.N1

1; 1299.8; 25-DEC-2007 15:47:23; Dark ; 39.5; 108; Alp Col ; 2.65; 15200;occ; 79; 0;30426
 2; 1583.9; 25-DEC-2007 15:52:07; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;30426
 3; 1759.0; 25-DEC-2007 15:55:03; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;30426
 4; 1879.0; 25-DEC-2007 15:57:03; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30426
 5; 2013.8; 25-DEC-2007 15:59:17; Dark ; 43.5; 27; 24Gam Ori ; 1.64; 26000;occ; 87; 0;30426
 6; 2190.6; 25-DEC-2007 16:02:14; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30426
 7; 2463.8; 25-DEC-2007 16:06:47; Bright; 34.5; 150; 44Zet Per ; 2.89; 28000;occ; 69; 0;30426
 8; 2595.7; 25-DEC-2007 16:08:59; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30426
 9; 2706.4; 25-DEC-2007 16:10:50; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30426
 10; 3422.8; 25-DEC-2007 16:22:46; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30426
 11; 3699.2; 25-DEC-2007 16:27:23; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;30426
 12; 3915.3; 25-DEC-2007 16:30:59; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30426
 13; 4528.7; 25-DEC-2007 16:41:12; Bright; 53.0; 67; 5Alp CrB ; 2.22; 11000;occ; 106; 0;30426
 14; 4864.7; 25-DEC-2007 16:46:48; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30426
 15; 5155.9; 25-DEC-2007 16:51:40; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;30426
 16; 5302.9; 25-DEC-2007 16:54:06; Dark ; 42.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 85; 0;30426
 17; 5703.4; 25-DEC-2007 17:00:47; Dark ; 45.5; 54; 5The Cen ; 2.06; 4500;occ; 91; 0;30426
 18; 5804.6; 25-DEC-2007 17:02:28; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30426
 19; 6217.5; 25-DEC-2007 17:09:21; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30426
 20; 6407.0; 25-DEC-2007 17:12:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30426
 21; 6517.9; 25-DEC-2007 17:14:21; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;30426
 22; 6612.3; 25-DEC-2007 17:15:56; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30426
 23; 6716.4; 25-DEC-2007 17:17:40; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30426
 24; 6986.9; 25-DEC-2007 17:22:11; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;30426

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071225_172800_000057342064_00313_30427_9713.N1

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 2; 1584.0; 25-DEC-2007 17:32:44; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;30427
 3; 1759.1; 25-DEC-2007 17:35:39; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;30427
 4; 1879.0; 25-DEC-2007 17:37:39; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30427
 5; 2013.7; 25-DEC-2007 17:39:53; Dark ; 45.0; 27; 24Gam Ori ; 1.64; 26000;occ; 90; 0;30427
 6; 2190.7; 25-DEC-2007 17:42:50; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30427
 7; 2463.9; 25-DEC-2007 17:47:24; Bright; 34.0; 150; 44Zet Per ; 2.89; 28000;occ; 68; 0;30427
 8; 2595.9; 25-DEC-2007 17:49:36; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;30427
 9; 2706.2; 25-DEC-2007 17:51:26; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;30427
 10; 3422.8; 25-DEC-2007 18:03:22; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30427
 11; 3699.0; 25-DEC-2007 18:07:59; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30427
 12; 3915.5; 25-DEC-2007 18:11:35; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30427
 13; 4528.8; 25-DEC-2007 18:21:48; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30427
 14; 4865.0; 25-DEC-2007 18:27:25; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30427
 15; 5156.2; 25-DEC-2007 18:32:16; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;30427
 16; 5303.2; 25-DEC-2007 18:34:43; Dark ; 40.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 81; 0;30427
 17; 5704.0; 25-DEC-2007 18:41:24; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;30427
 18; 5804.9; 25-DEC-2007 18:43:05; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30427
 19; 6218.0; 25-DEC-2007 18:49:58; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;30427
 20; 6407.3; 25-DEC-2007 18:53:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30427
 21; 6518.4; 25-DEC-2007 18:54:58; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30427
 22; 6612.9; 25-DEC-2007 18:56:33; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30427
 23; 6716.9; 25-DEC-2007 18:58:17; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;30427
 24; 6987.2; 25-DEC-2007 19:02:47; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;30427

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071225_190836_000057342064_00314_30428_9714.N1

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 2; 1584.1; 25-DEC-2007 19:13:20; Dark ; 42.0; 101; 11Alp Lep ; 2.58; 7000;occ; 84; 0;30428
 3; 1759.2; 25-DEC-2007 19:16:15; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30428
 4; 1879.0; 25-DEC-2007 19:18:15; Dark ; 45.5; 30; 46Eps Ori ; 1.69; 30000;occ; 91; 0;30428
 5; 2013.7; 25-DEC-2007 19:20:29; Dark ; 45.0; 27; 24Gam Ori ; 1.64; 26000;occ; 90; 0;30428
 6; 2190.7; 25-DEC-2007 19:23:26; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;30428
 7; 2464.2; 25-DEC-2007 19:28:00; Bright; 34.0; 150; 44Zet Per ; 2.89; 28000;occ; 68; 0;30428

8; 2596.0; 25-DEC-2007 19:30:12; Bright; 43.5; 149; 45Eps Per ; 2.89; 30000;occ; 87; 0;30428
9; 2706.0; 25-DEC-2007 19:32:02; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;30428
10; 3422.7; 25-DEC-2007 19:43:58; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30428
11; 3698.9; 25-DEC-2007 19:48:35; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;30428
12; 3915.5; 25-DEC-2007 19:52:11; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30428
13; 4529.1; 25-DEC-2007 20:02:25; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30428
14; 4865.1; 25-DEC-2007 20:08:01; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30428
15; 5156.4; 25-DEC-2007 20:12:52; Bright; 53.0; 104; 27Bet Lib ; 2.61; 13100;occ; 106; 0;30428
16; 5303.6; 25-DEC-2007 20:15:19; Dark ; 40.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 81; 0;30428
17; 5704.5; 25-DEC-2007 20:22:00; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;30428
18; 5805.2; 25-DEC-2007 20:23:41; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30428
19; 6040.3; 25-DEC-2007 20:27:36; Dark ; 39.5; 10; Bet Cen ; 0.61; 28000;occ; 79; 0;30428
20; 6218.3; 25-DEC-2007 20:30:34; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30428
21; 6407.5; 25-DEC-2007 20:33:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30428
22; 6518.7; 25-DEC-2007 20:35:34; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30428
23; 6613.4; 25-DEC-2007 20:37:09; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30428
24; 6717.3; 25-DEC-2007 20:38:53; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;30428
25; 6987.4; 25-DEC-2007 20:43:23; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;30428

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071225_204323_000043902064_00315_30429_4994.N1

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2; 1300.5; 25-DEC-2007 20:49:12; Dark ; 37.5; 108; Alp Col ; 2.65; 15200;occ; 75; 0;30429
3; 1584.2; 25-DEC-2007 20:53:56; Dark ; 41.0; 101; 11Alp Lep ; 2.58; 7000;occ; 82; 0;30429
4; 1759.2; 25-DEC-2007 20:56:51; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;30429
5; 1879.0; 25-DEC-2007 20:58:51; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;30429
6; 2013.7; 25-DEC-2007 21:01:05; Dark ; 44.5; 27; 24Gam Ori ; 1.64; 26000;occ; 89; 0;30429
7; 2190.8; 25-DEC-2007 21:04:02; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;30429
8; 2464.2; 25-DEC-2007 21:08:36; Bright; 36.0; 150; 44Zet Per ; 2.89; 28000;occ; 72; 0;30429
9; 2596.0; 25-DEC-2007 21:10:48; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;30429
10; 2705.8; 25-DEC-2007 21:12:37; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;30429
11; 3422.7; 25-DEC-2007 21:24:34; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30429
12; 3698.9; 25-DEC-2007 21:29:11; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30429
13; 3915.6; 25-DEC-2007 21:32:47; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30429
14; 4529.1; 25-DEC-2007 21:43:01; Bright; 53.0; 67; 5Alp CrB ; 2.22; 11000;occ; 106; 0;30429
15; 4865.3; 25-DEC-2007 21:48:37; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30429
16; 5156.8; 25-DEC-2007 21:53:28; Bright; 53.0; 104; 27Bet Lib ; 2.61; 13100;occ; 106; 0;30429
17; 5304.0; 25-DEC-2007 21:55:56; Dark ; 38.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 76; 0;30429

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071225_215556_000060752064_00315_30429_4995.N1

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2; -330.9; 25-DEC-2007 22:02:37; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;30429
3; -230.4; 25-DEC-2007 22:04:17; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30429
4; 4.7; 25-DEC-2007 22:08:12; Dark ; 49.0; 10; Bet Cen ; 0.61; 28000;occ; 98; 0;30430
5; 182.9; 25-DEC-2007 22:11:10; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30430
6; 371.8; 25-DEC-2007 22:14:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30430
7; 483.3; 25-DEC-2007 22:16:11; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30430
8; 578.1; 25-DEC-2007 22:17:46; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30430
9; 681.8; 25-DEC-2007 22:19:29; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;30430
10; 951.8; 25-DEC-2007 22:23:59; Dark ; 43.0; 2; Alp Car ; -0.74; 7000;occ; 86; 0;30430
11; 1300.6; 25-DEC-2007 22:29:48; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30430
12; 1584.3; 25-DEC-2007 22:34:32; Dark ; 41.0; 101; 11Alp Lep ; 2.58; 7000;occ; 82; 0;30430
13; 1759.3; 25-DEC-2007 22:37:27; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;30430
14; 1879.0; 25-DEC-2007 22:39:26; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;30430
15; 2013.5; 25-DEC-2007 22:41:41; Dark ; 45.0; 27; 24Gam Ori ; 1.64; 26000;occ; 90; 0;30430
16; 2190.8; 25-DEC-2007 22:44:38; Dark ; 44.0; 13; 87Alp Tau ; 0.87; 3800;occ; 88; 0;30430
17; 2464.5; 25-DEC-2007 22:49:12; Bright; 35.5; 150; 44Zet Per ; 2.89; 28000;occ; 71; 0;30430
18; 2596.1; 25-DEC-2007 22:51:24; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;30430
19; 2705.5; 25-DEC-2007 22:53:13; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;30430
20; 3422.8; 25-DEC-2007 23:05:10; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30430
21; 3698.8; 25-DEC-2007 23:09:46; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;30430
22; 3915.7; 25-DEC-2007 23:13:23; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;30430
23; 4529.3; 25-DEC-2007 23:23:37; Bright; 53.0; 67; 5Alp CrB ; 2.22; 11000;occ; 106; 0;30430
24; 4865.4; 25-DEC-2007 23:29:13; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30430
25; 5157.1; 25-DEC-2007 23:34:05; Bright; 53.0; 104; 27Bet Lib ; 2.61; 13100;occ; 106; 0;30430
26; 5304.5; 25-DEC-2007 23:36:32; Dark ; 39.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 78; 0;30430

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071225_233706_000058942064_00316_30430_4996.N1

1; -697.4; 25-DEC-2007 23:37:06; Dark ; 39.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 79; 68;30430
2; -330.4; 25-DEC-2007 23:43:13; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;30430
3; -230.0; 25-DEC-2007 23:44:53; Dark ; 36.5; 78; Alp Lup ; 2.30; 28000;occ; 73; 0;30430
4; 5.0; 25-DEC-2007 23:48:48; Dark ; 49.0; 10; Bet Cen ; 0.61; 28000;occ; 98; 0;30431


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5; 183.3; 25-DEC-2007 23:51:47; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;30431
6; 372.2; 25-DEC-2007 23:54:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30431
7; 483.8; 25-DEC-2007 23:56:47; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30431
8; 578.6; 25-DEC-2007 23:58:22; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30431
9; 682.3; 26-DEC-2007 00:00:06; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30431
10; 952.0; 26-DEC-2007 00:04:35; Dark ; 43.5; 2; Alp Car ;-0.74; 7000;occ; 87; 0;30431
11; 1300.9; 26-DEC-2007 00:10:24; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30431
12; 1584.5; 26-DEC-2007 00:15:08; Dark ; 43.5; 101; 11Alp Lep ; 2.58; 7000;occ; 87; 0;30431
13; 1759.3; 26-DEC-2007 00:18:03; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;30431
14; 1879.0; 26-DEC-2007 00:20:02; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;30431
15; 2013.6; 26-DEC-2007 00:22:17; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;30431
16; 2190.9; 26-DEC-2007 00:25:14; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30431
17; 2464.4; 26-DEC-2007 00:29:48; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;30431
18; 2596.3; 26-DEC-2007 00:32:00; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30431
19; 2705.4; 26-DEC-2007 00:33:49; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30431
20; 3422.7; 26-DEC-2007 00:45:46; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30431
21; 3698.7; 26-DEC-2007 00:50:22; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30431
22; 3915.8; 26-DEC-2007 00:53:59; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;30431
23; 4529.4; 26-DEC-2007 01:04:13; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30431
24; 4865.8; 26-DEC-2007 01:09:49; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30431
25; 5157.4; 26-DEC-2007 01:14:41; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;30431
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071226_011708_000044382064_00317_30431_4997.N1
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23; 6618.0; 26-DEC-2007 10:02:01; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;30436
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 25; 6730.0; 27-DEC-2007 16:14:40; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;30454
 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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 3; 1761.7; 27-DEC-2007 16:32:27; Dark ; 53.0; 7; 19Bet Ori ; 0.10; 14000;occ; 106; 0;30455
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 5; 2013.0; 27-DEC-2007 16:36:39; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30455
 6; 2192.7; 27-DEC-2007 16:39:38; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;30455
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 10; 3422.9; 27-DEC-2007 17:00:09; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30455
 11; 3697.1; 27-DEC-2007 17:04:43; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30455
 12; 3917.7; 27-DEC-2007 17:08:23; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30455
 13; 4410.5; 27-DEC-2007 17:16:36; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30455
 14; 4533.8; 27-DEC-2007 17:18:39; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30455
 15; 4871.7; 27-DEC-2007 17:24:17; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30455
 16; 5166.2; 27-DEC-2007 17:29:12; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;30455
 17; 5316.6; 27-DEC-2007 17:31:42; Dark ; 39.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 79; 0;30455
 18; 5721.0; 27-DEC-2007 17:38:27; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;30455
 19; 5815.4; 27-DEC-2007 17:40:01; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30455
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 21; 6015.5; 27-DEC-2007 17:43:21; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;30455
 22; 6231.5; 27-DEC-2007 17:46:57; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;30455
 23; 6415.6; 27-DEC-2007 17:50:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30455
 24; 6532.2; 27-DEC-2007 17:51:58; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30455
 25; 6629.0; 27-DEC-2007 17:53:35; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30455
 26; 6730.4; 27-DEC-2007 17:55:16; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30455
 27; 6995.8; 27-DEC-2007 17:59:41; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;30455

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 11; 2782.9; 27-DEC-2007 18:30:05; Bright; 36.5; 35; 33Alp Per ; 1.79; 6250;occ; 73; 0;30456
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 13; 3697.0; 27-DEC-2007 18:45:19; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30456
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 16; 4533.8; 27-DEC-2007 18:59:15; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;30456
 17; 4872.0; 27-DEC-2007 19:04:54; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30456
 18; 5166.4; 27-DEC-2007 19:09:48; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;30456
 19; 5317.0; 27-DEC-2007 19:12:19; Dark ; 40.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 81; 0;30456
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 21; 5815.8; 27-DEC-2007 19:20:37; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30456

22; 5893.4; 27-DEC-2007 19:21:55; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30456
 23; 6015.8; 27-DEC-2007 19:23:57; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30456
 24; 6231.9; 27-DEC-2007 19:27:34; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30456
 25; 6415.9; 27-DEC-2007 19:30:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30456
 26; 6532.6; 27-DEC-2007 19:32:34; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30456
 27; 6629.5; 27-DEC-2007 19:34:11; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30456
 28; 6730.8; 27-DEC-2007 19:35:52; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;30456
 29; 6996.0; 27-DEC-2007 19:40:18; Dark ; 5.0; 2; Alp Car ; -0.74; 7000;occ; 10; 0;30456

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 5; 196.9; 27-DEC-2007 22:48:46; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;30459
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 9; 695.7; 27-DEC-2007 22:57:05; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;30459
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 11; 1307.0; 27-DEC-2007 23:07:16; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30459
 12; 1588.4; 27-DEC-2007 23:11:58; Dark ; 40.0; 101; 11Alp Lep ; 2.58; 7000;occ; 80; 0;30459
 13; 1762.0; 27-DEC-2007 23:14:51; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;30459
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 15; 2012.9; 27-DEC-2007 23:19:02; Dark ; 40.5; 27; 24Gam Ori ; 1.64; 26000;occ; 81; 0;30459
 16; 2193.0; 27-DEC-2007 23:22:02; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;30459
 17; 2404.8; 27-DEC-2007 23:25:34; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;30459
 18; 2600.3; 27-DEC-2007 23:28:50; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;30459
 19; 2700.5; 27-DEC-2007 23:30:30; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30459
 20; 2783.5; 27-DEC-2007 23:31:53; Bright; 35.5; 35; 33Alp Per ; 1.79; 6250;occ; 71; 0;30459
 21; 3422.9; 27-DEC-2007 23:42:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30459
 22; 3696.7; 27-DEC-2007 23:47:06; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30459
 23; 3917.8; 27-DEC-2007 23:50:47; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30459
 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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 4; -19.5; 28-DEC-2007 00:25:46; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30459
 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
 7; 498.0; 28-DEC-2007 00:34:23; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 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
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 13; 1762.1; 28-DEC-2007 00:55:27; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;30460
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 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
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 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
 24; 4411.3; 28-DEC-2007 01:39:37; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30460
 25; 4534.5; 28-DEC-2007 01:41:40; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30460
 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

5; -140.4; 28-DEC-2007 02:04:21; Dark ; 38.5; 95; Zet Cen ; 2.55; 26000;occ; 77; 0;30460
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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
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19; 2600.4; 28-DEC-2007 02:50:02; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30461
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21; 2784.0; 28-DEC-2007 02:53:05; Bright; 37.0; 35; 33Alp Per ; 1.79; 6250;occ; 74; 0;30461
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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
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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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17; 961.9; 28-DEC-2007 05:43:55; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;30463
18; 1308.1; 28-DEC-2007 05:49:41; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30463
19; 1589.2; 28-DEC-2007 05:54:22; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 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
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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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13; 3918.9; 28-DEC-2007 21:38:35; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;30472
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15; 4536.7; 28-DEC-2007 21:48:53; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 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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