

GOMOS Daily Report 13-MAY-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	15MAY2007 05:34:56
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (13MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (14MAY2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

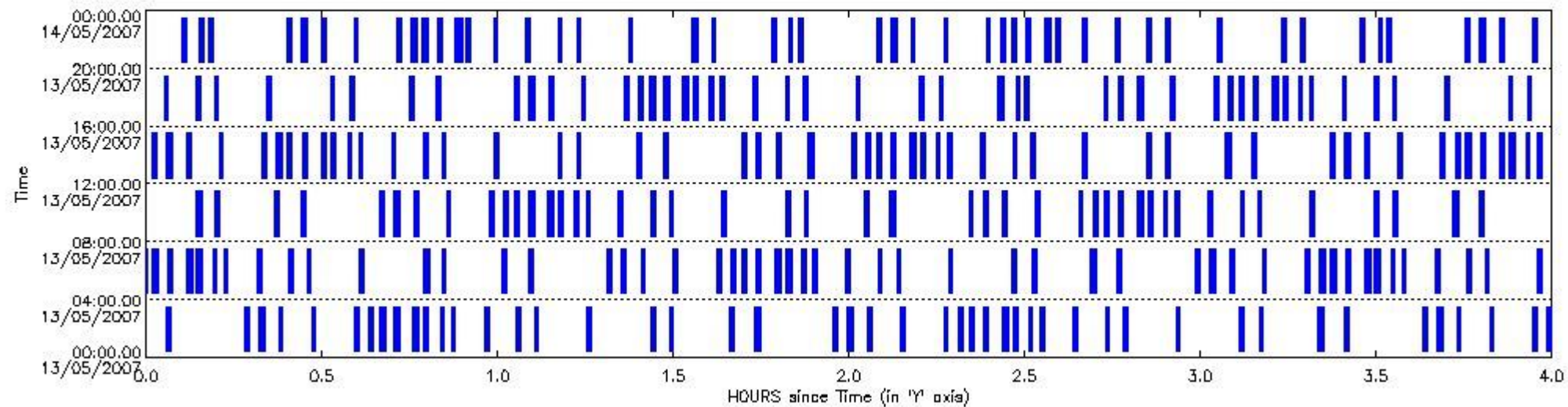
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

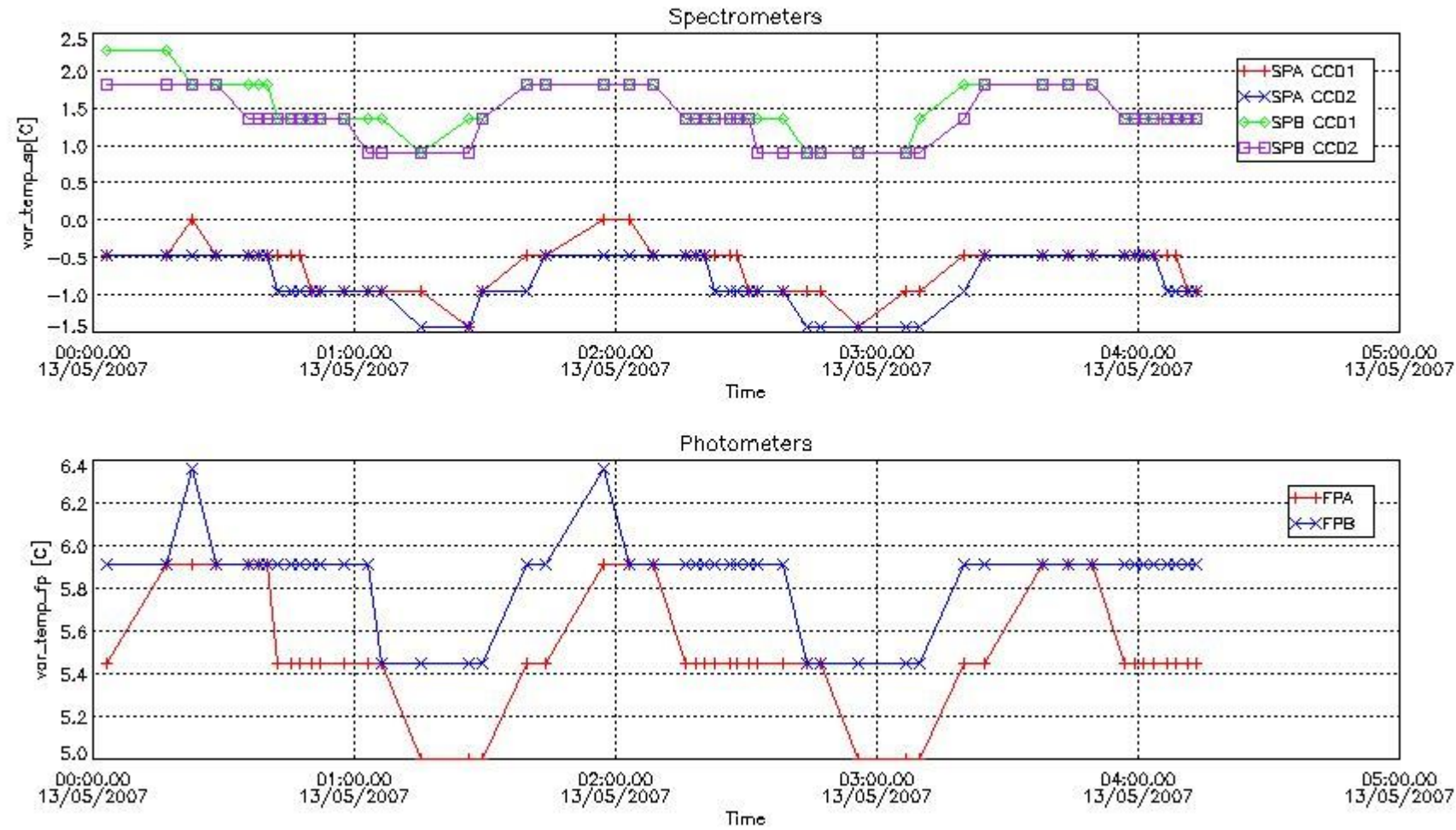
No missing products.

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_1PNPDE20070513_000319_000000512058_00073_27181_4887.N1	13-MAY-2007 00:03:19	Dark	51.000	90	54Alp Peg	2.4870	11000.	102	27181	No
2	GOM_TRA_1PNPDE20070513_001644_000000492058_00073_27181_4874.N1	13-MAY-2007 00:16:44	Dark	48.500	18	24Alp PsA	1.1660	9700.0	97	27181	No
3	GOM_TRA_1PNPDE20070513_002235_000000402058_00073_27181_4875.N1	13-MAY-2007 00:22:35	Dark	40.000	31	Alp Gru	1.7340	15200.	80	27181	No
4	GOM_TRA_1PNPDE20070513_002810_000000412058_00074_27182_4876.N1	13-MAY-2007 00:28:10	Dark	40.500	45	Alp Pav	1.9400	26000.	81	27182	No
5	GOM_TRA_1PNPDE20070513_003530_000000422058_00074_27182_4877.N1	13-MAY-2007 00:35:30	Straylight	41.500	141	Bet Ara	2.8400	4600.0	83	27182	No
6	GOM_TRA_1PNPDE20070513_003756_000000522058_00074_27182_4878.N1	13-MAY-2007 00:37:56	Straylight	52.000	40	The Sco	1.8590	7100.0	104	27182	No
7	GOM_TRA_1PNPDE20070513_003948_000000582058_00074_27182_4879.N1	13-MAY-2007 00:39:48	Straylight	57.500	25	35Lam Sco	1.6200	28000.	115	27182	No
8	GOM_TRA_1PNPDE20070513_004218_000000552058_00074_27182_4880.N1	13-MAY-2007 00:42:18	Straylight	55.000	75	26Eps Sco	2.2910	4250.0	110	27182	No
9	GOM_TRA_1PNPDE20070513_004532_000000572058_00074_27182_4881.N1	13-MAY-2007 00:45:32	Twilight_stray	57.000	16	21Alp Sco	1.0200	3000.0	114	27182	No
10	GOM_TRA_1PNPDE20070513_004721_000000542058_00074_27182_4882.N1	13-MAY-2007 00:47:21	Bright	53.500	80	7Del Sco	2.3160	30000.	107	27182	No
11	GOM_TRA_1PNPDE20070513_005007_000000382058_00074_27182_4883.N1	13-MAY-2007 00:50:07	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	27182	No
12	GOM_TRA_1PNPDE20070513_005203_000000402058_00074_27182_4884.N1	13-MAY-2007 00:52:03	Bright	40.000	104	27Bet Lib	2.6140	13100.	80	27182	No

13	GOM_TRA_1PNPDE20070513_005740_000000462058_00074_27182_4885.N1	13-MAY-2007 00:57:40	Bright	46.000	102	24Alp Ser	2.6000	4250.0	92	27182	No
14	GOM_TRA_1PNPDE20070513_010310_000000412058_00074_27182_4886.N1	13-MAY-2007 01:03:10	Bright	40.500	83		2.3780	11000.	81	27182	No
15	GOM_TRA_1PNPDE20070513_010617_000000372058_00074_27182_4887.N1	13-MAY-2007 01:06:17	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	27182	No
16	GOM_TRA_1PNPDE20070513_011513_000000432058_00074_27182_4888.N1	13-MAY-2007 01:15:13	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	27182	No
17	GOM_TRA_1PNPDE20070513_012607_000000562058_00074_27182_4889.N1	13-MAY-2007 01:26:07	Bright	55.500	89	5Alp Cep	2.4510	8000.0	111	27182	No
18	GOM_TRA_1PNPDE20070513_012922_000000352058_00074_27182_4890.N1	13-MAY-2007 01:29:22	Bright	35.000	74	11Bet Cas	2.2680	6600.0	70	27182	No
19	GOM_TRA_1PNPDE20070513_013926_000000602058_00074_27182_4891.N1	13-MAY-2007 01:39:26	Twilight	60.000	93	53Bet Peg	2.5200	3100.0	120	27182	No
20	GOM_TRA_1PNPDE20070513_014356_000000522058_00074_27182_4892.N1	13-MAY-2007 01:43:56	Dark	52.000	90	54Alp Peg	2.4870	11000.	104	27182	No
21	GOM_TRA_1PNPDE20070513_015720_000000472058_00074_27182_4879.N1	13-MAY-2007 01:57:20	Dark	47.000	18	24Alp PsA	1.1660	9700.0	94	27182	No
22	GOM_TRA_1PNPDE20070513_020311_000000422058_00074_27182_4880.N1	13-MAY-2007 02:03:11	Dark	42.000	31	Alp Gru	1.7340	15200.	84	27182	No
23	GOM_TRA_1PNPDE20070513_020847_000000432058_00075_27183_4881.N1	13-MAY-2007 02:08:47	Dark	42.500	45	Alp Pav	1.9400	26000.	85	27183	No
24	GOM_TRA_1PNPDE20070513_021607_000000412058_00075_27183_4882.N1	13-MAY-2007 02:16:07	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	27183	No
25	GOM_TRA_1PNPDE20070513_021833_000000512058_00075_27183_4883.N1	13-MAY-2007 02:18:33	Straylight	50.500	40	The Sco	1.8590	7100.0	101	27183	No
26	GOM_TRA_1PNPDE20070513_022025_000000572058_00075_27183_4884.N1	13-MAY-2007 02:20:25	Straylight	56.500	25	35Lam Sco	1.6200	28000.	113	27183	No
27	GOM_TRA_1PNPDE20070513_022255_000000542058_00075_27183_4885.N1	13-MAY-2007 02:22:55	Straylight	53.500	75	26Eps Sco	2.2910	4250.0	107	27183	No
28	GOM_TRA_1PNPDE20070513_022608_000000652058_00075_27183_4886.N1	13-MAY-2007 02:26:08	Twilight	64.500	16	21Alp Sco	1.0200	3000.0	129	27183	No
29	GOM_TRA_1PNPDE20070513_022757_000000552058_00075_27183_4887.N1	13-MAY-2007 02:27:57	Bright	55.000	80	7Del Sco	2.3160	30000.	110	27183	No
30	GOM_TRA_1PNPDE20070513_023043_000000382058_00075_27183_4888.N1	13-MAY-2007 02:30:43	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	27183	No
31	GOM_TRA_1PNPDE20070513_023239_000000422058_00075_27183_4889.N1	13-MAY-2007 02:32:39	Bright	41.500	104	27Bet Lib	2.6140	13100.	83	27183	No
32	GOM_TRA_1PNPDE20070513_023816_000000462058_00075_27183_4890.N1	13-MAY-2007 02:38:16	Bright	46.000	102	24Alp Ser	2.6000	4250.0	92	27183	No
33	GOM_TRA_1PNPDE20070513_024346_000000412058_00075_27183_4891.N1	13-MAY-2007 02:43:46	Bright	40.500	83		2.3780	11000.	81	27183	No
34	GOM_TRA_1PNPDE20070513_024653_000000362058_00075_27183_4892.N1	13-MAY-2007 02:46:53	Bright	35.500	180	27Gam Boo	3.0400	8000.0	71	27183	No
35	GOM_TRA_1PNPDE20070513_025549_000000382058_00075_27183_4893.N1	13-MAY-2007 02:55:49	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	27183	No
36	GOM_TRA_1PNPDE20070513_030642_000000432058_00075_27183_2910.N1	13-MAY-2007 03:06:42	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	27183	No
37	GOM_TRA_1PNPDE20070513_030957_000000372058_00075_27183_2911.N1	13-MAY-2007 03:09:57	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	27183	No
38	GOM_TRA_1PNPDE20070513_032003_000000602058_00075_27183_2912.N1	13-MAY-2007 03:20:03	Twilight	60.000	93	53Bet Peg	2.5200	3100.0	120	27183	No
39	GOM_TRA_1PNPDE20070513_032432_000000522058_00075_27183_2913.N1	13-MAY-2007 03:24:32	Dark	51.500	90	54Alp Peg	2.4870	11000.	103	27183	No
40	GOM_TRA_1PNPDE20070513_033757_000000482058_00075_27183_2914.N1	13-MAY-2007 03:37:57	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	27183	No
41	GOM_TRA_1PNPDE20070513_034348_000000432058_00075_27183_2915.N1	13-MAY-2007 03:43:48	Dark	42.500	31	Alp Gru	1.7340	15200.	85	27183	No
42	GOM_TRA_1PNPDE20070513_034923_000000412058_00076_27184_2916.N1	13-MAY-2007 03:49:23	Dark	40.500	45	Alp Pav	1.9400	26000.	81	27184	No
43	GOM_TRA_1PNPDE20070513_035643_000000412058_00076_27184_2917.N1	13-MAY-2007 03:56:43	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	27184	No
44	GOM_TRA_1PNPDE20070513_035910_000000522058_00076_27184_2918.N1	13-MAY-2007 03:59:10	Straylight	52.000	40	The Sco	1.8590	7100.0	104	27184	No
45	GOM_TRA_1PNPDE20070513_040101_000000592058_00076_27184_2919.N1	13-MAY-2007 04:01:01	Straylight	59.000	25	35Lam Sco	1.6200	28000.	118	27184	No
46	GOM_TRA_1PNPDE20070513_040331_000000552058_00076_27184_2920.N1	13-MAY-2007 04:03:31	Straylight	55.000	75	26Eps Sco	2.2910	4250.0	110	27184	No
47	GOM_TRA_1PNPDE20070513_040644_000000682058_00076_27184_2921.N1	13-MAY-2007 04:06:44	Twilight	68.000	16	21Alp Sco	1.0200	3000.0	136	27184	No
48	GOM_TRA_1PNPDE20070513_040833_000000582058_00076_27184_2922.N1	13-MAY-2007 04:08:33	Bright	58.000	80	7Del Sco	2.3160	30000.	116	27184	No
49	GOM_TRA_1PNPDE20070513_041119_000000382058_00076_27184_2923.N1	13-MAY-2007 04:11:19	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	27184	No
50	GOM_TRA_1PNPDE20070513_041315_000000412058_00076_27184_2924.N1	13-MAY-2007 04:13:15	Bright	40.500	104	27Bet Lib	2.6140	13100.	81	27184	No

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



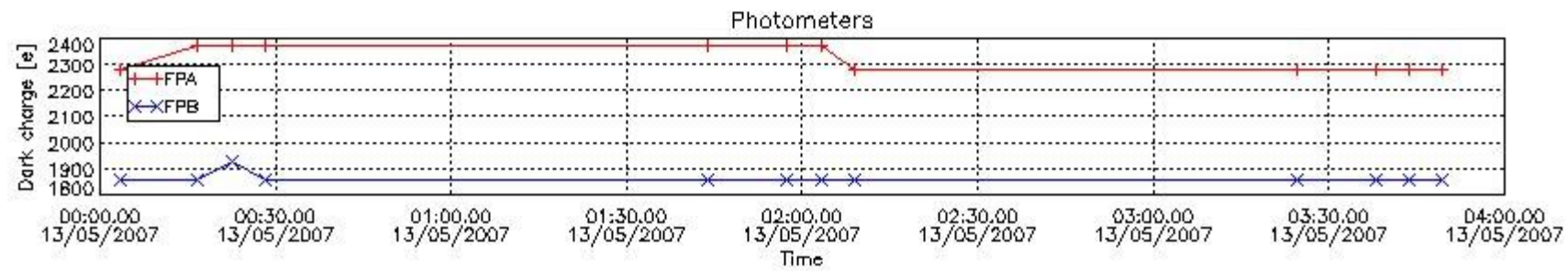
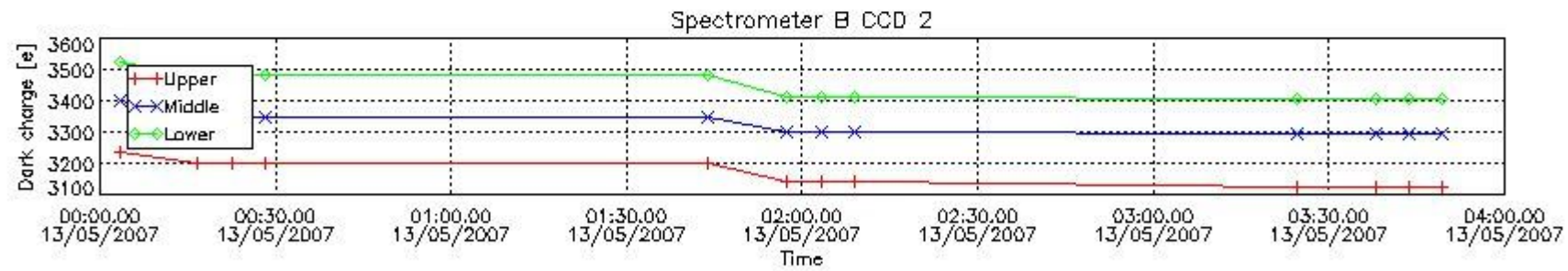
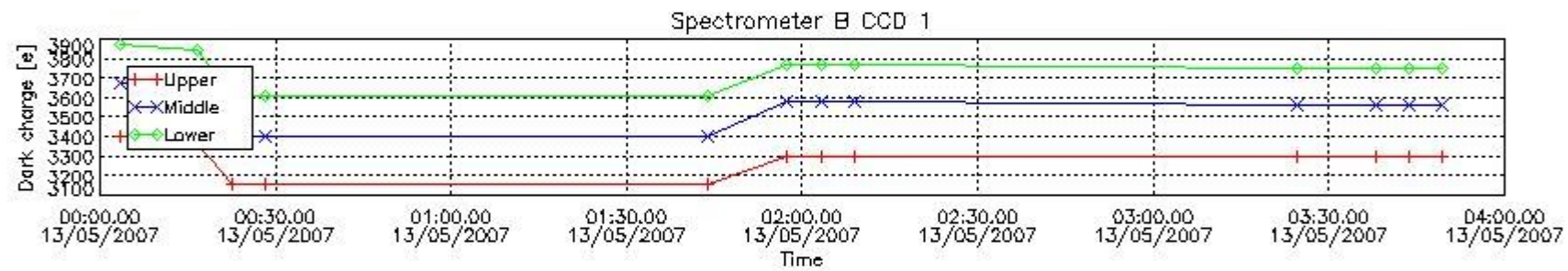
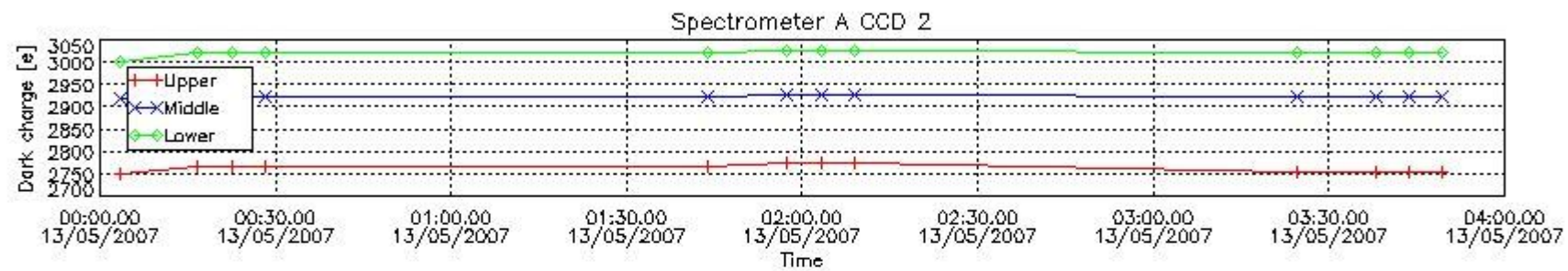
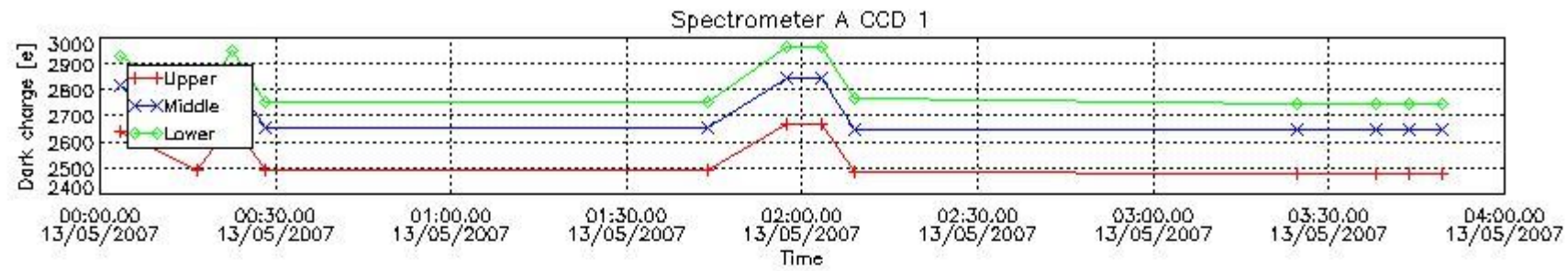
4. Overview of dark signal processing per product

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



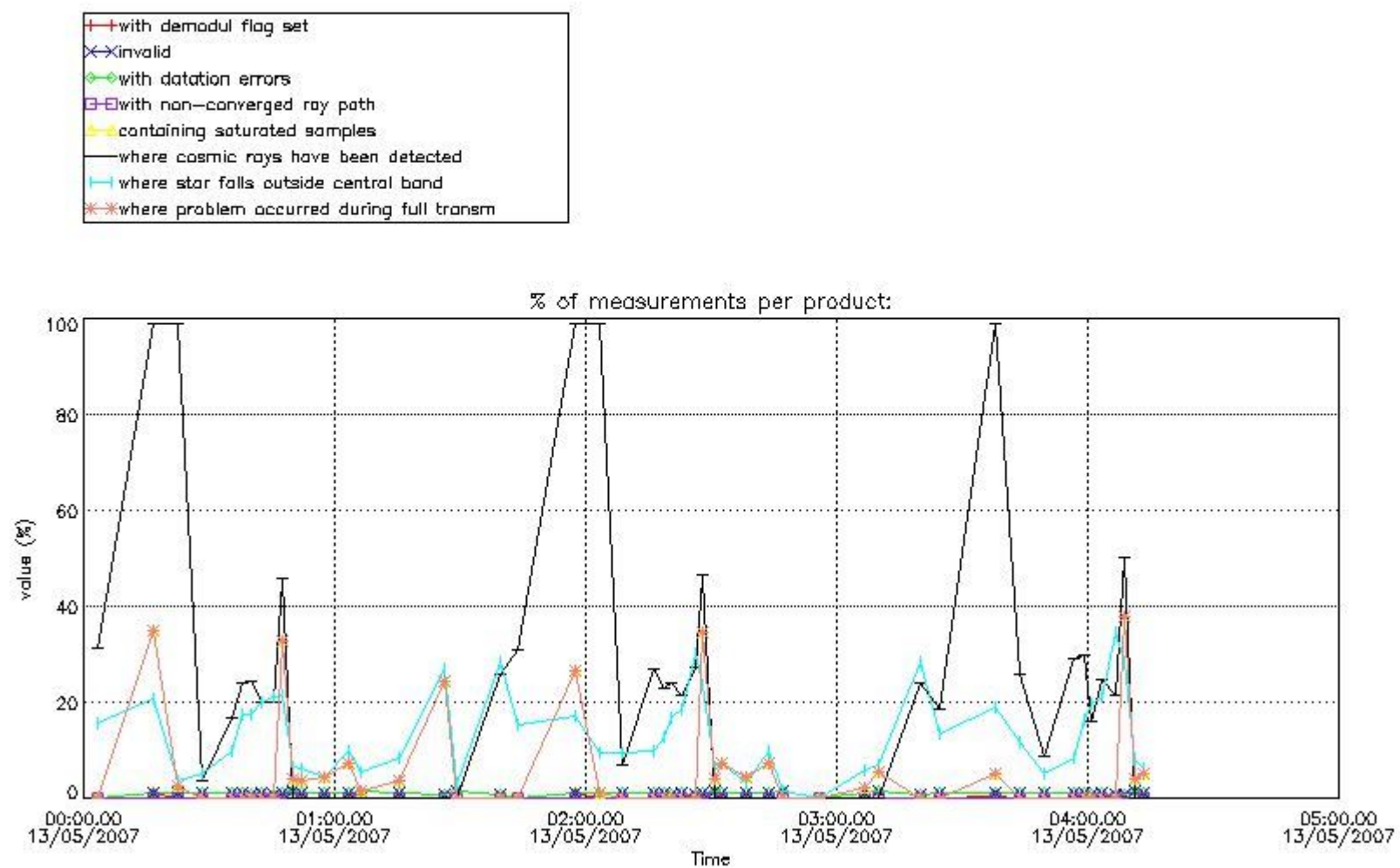
5. Demodulation flag and quality information monitoring

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.

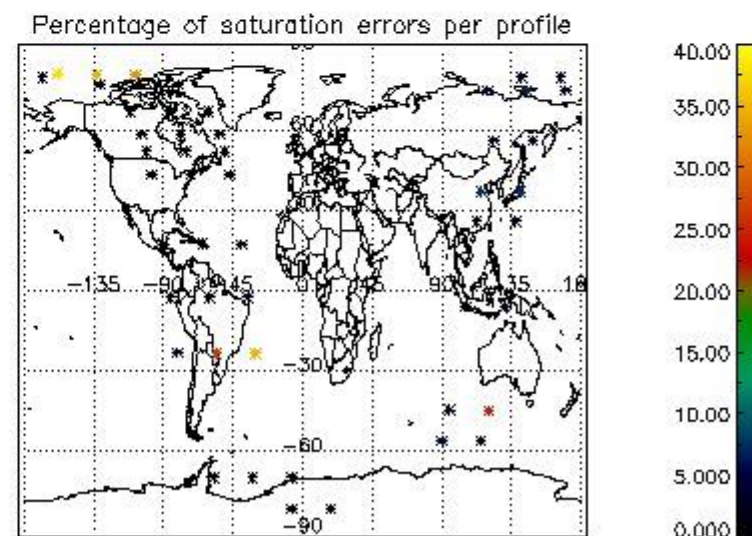
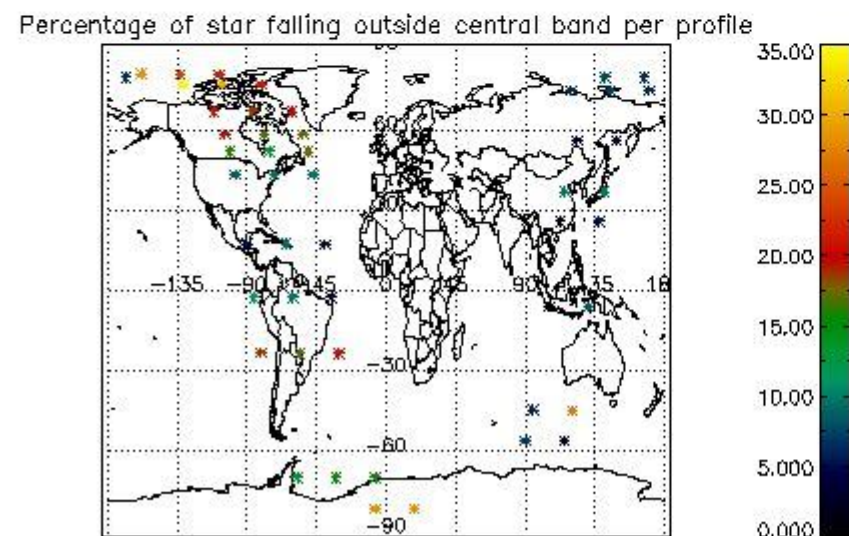
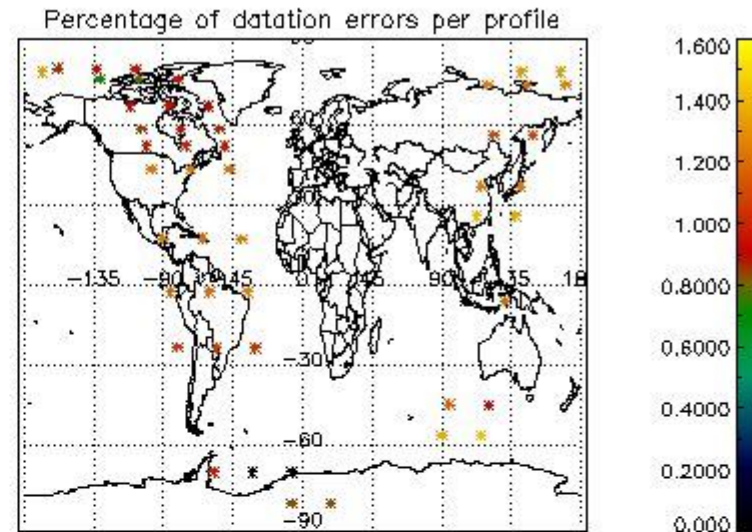
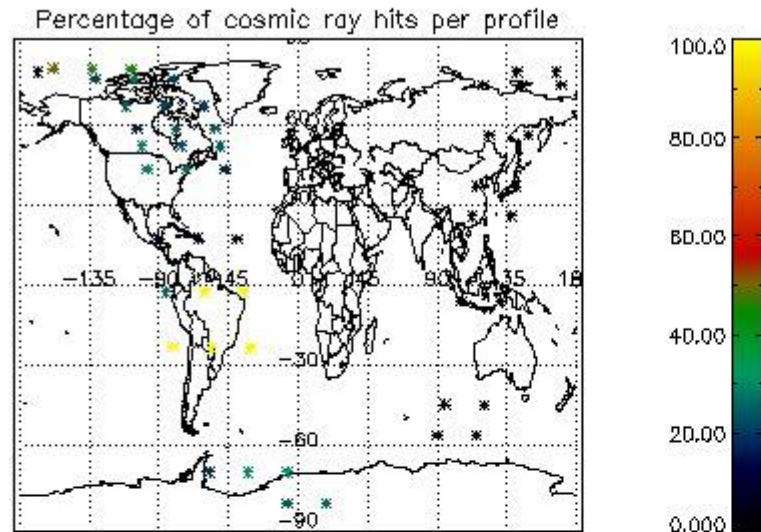
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



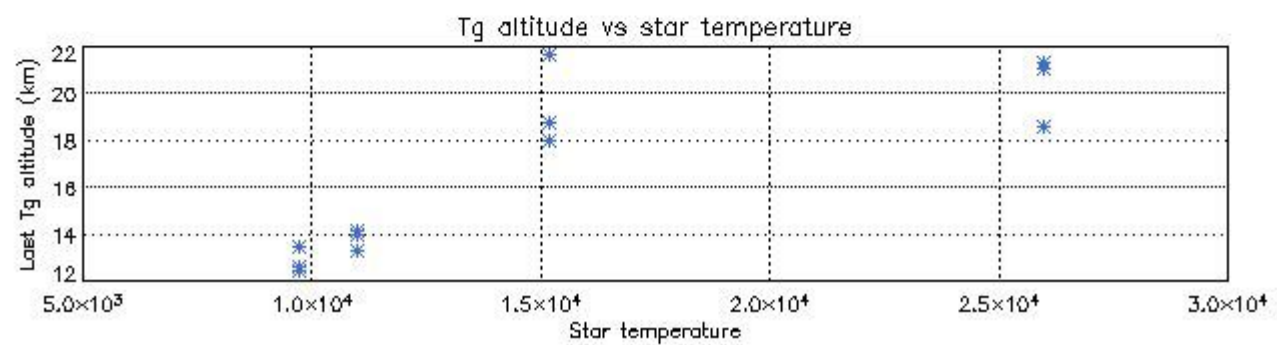
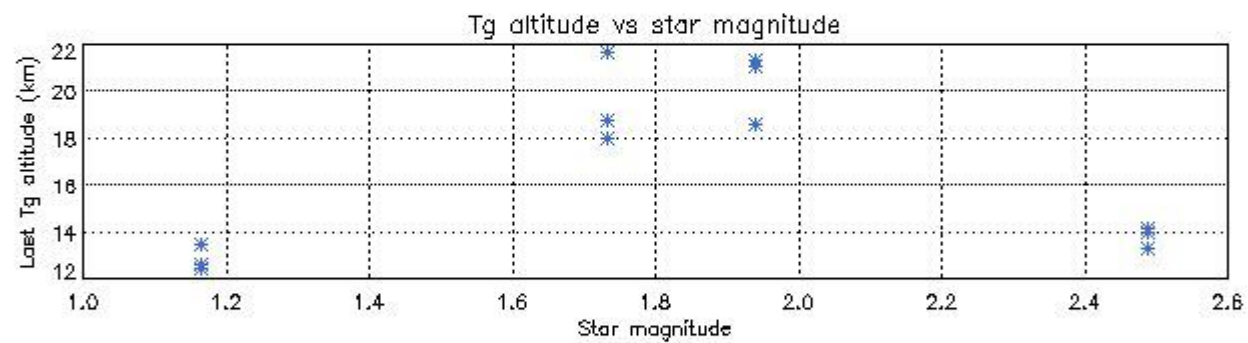
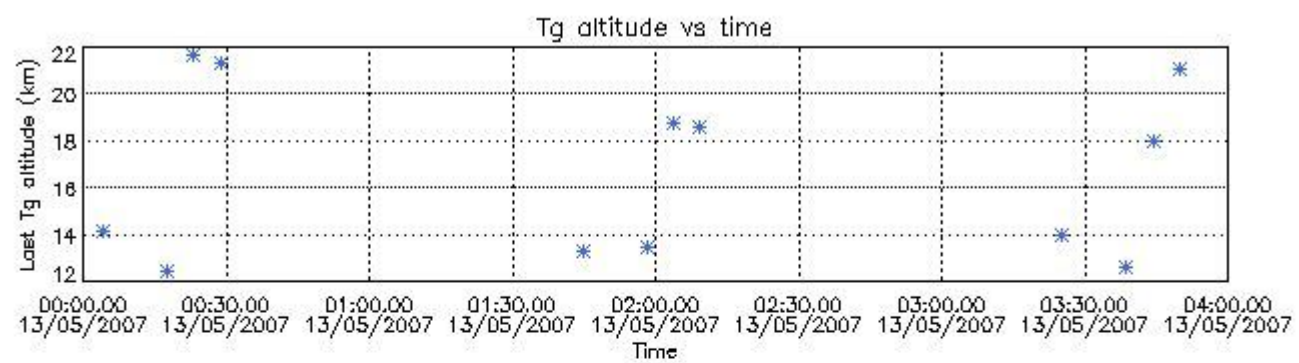
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.591	19.401	NaN
St. deviation:	3.6279	5.5885	NaN
Maximum:	21.637	29.658	NaN
Minimum:	12.431	7.9391	NaN
Number of data:	12.000	21.000	NaN

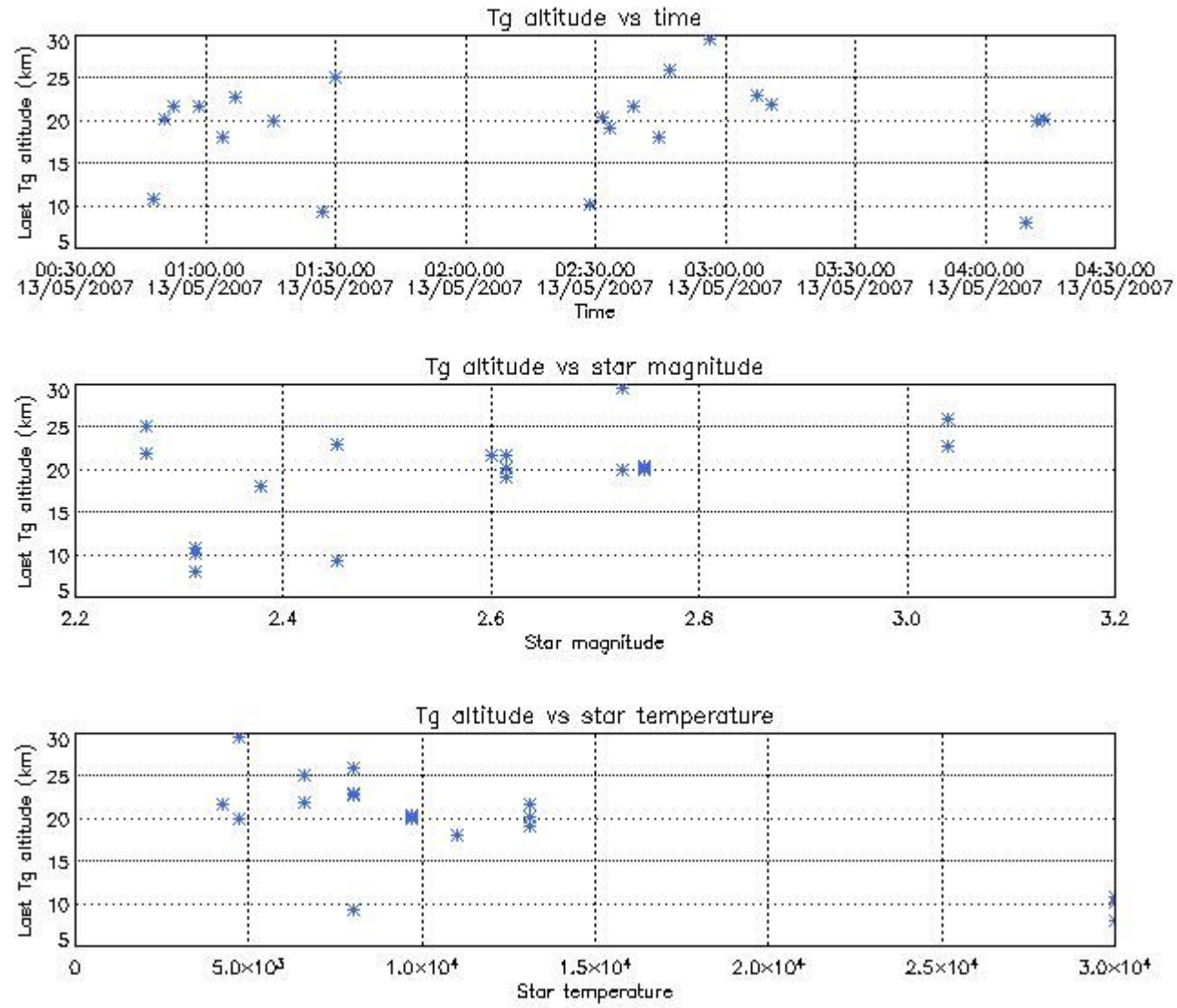
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

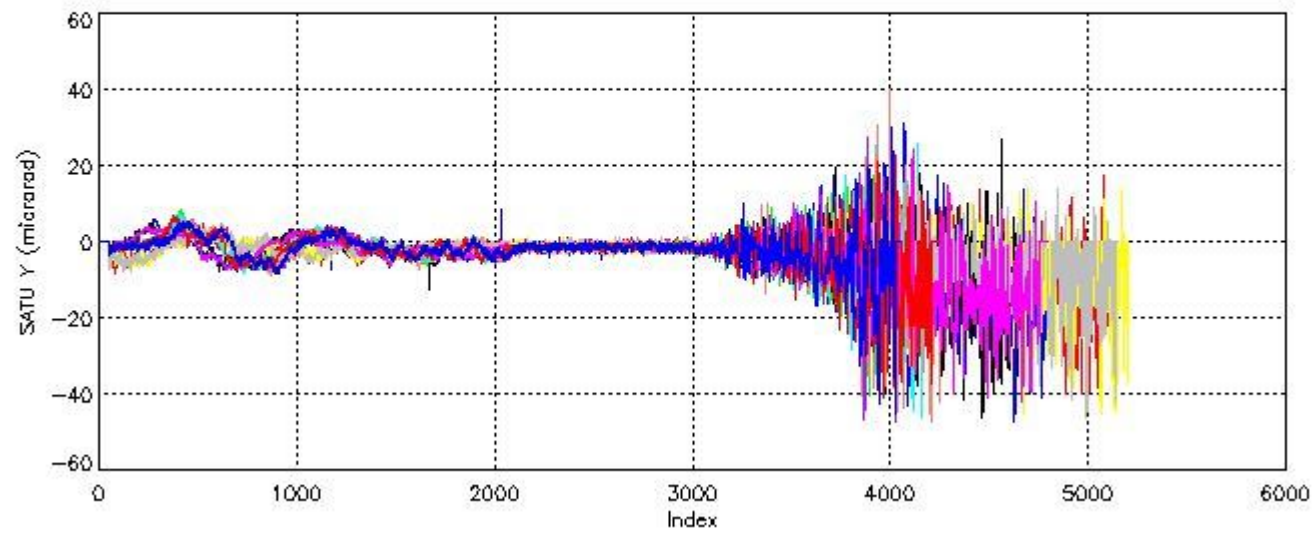
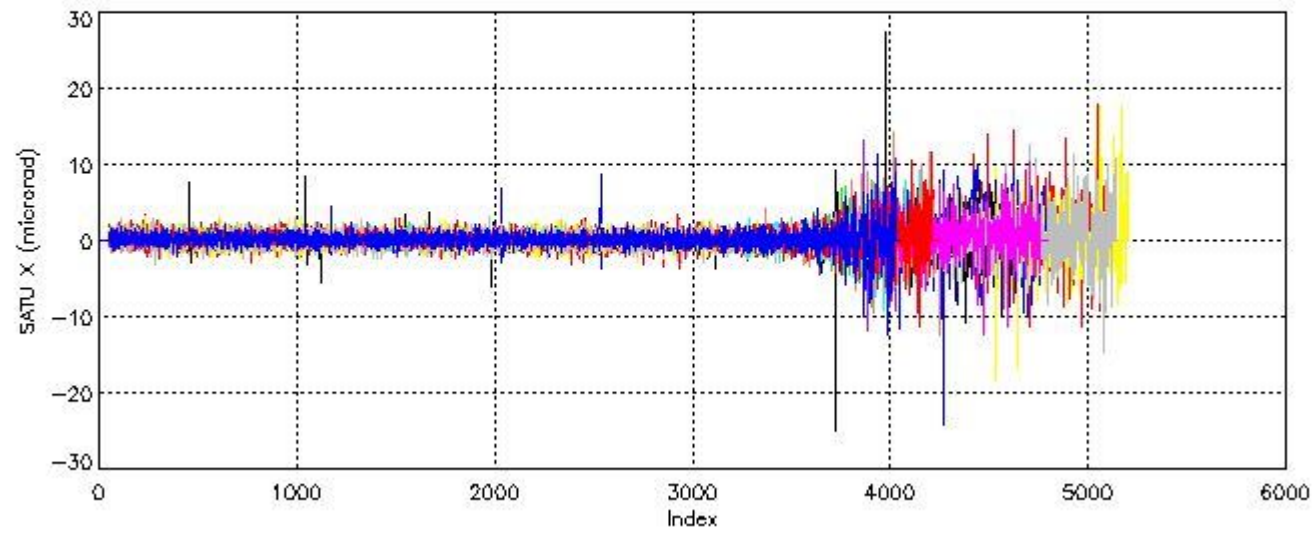


7. Star Acquisition and Tracking Unit (SATU)

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:	0.20377	-1.1266	0.28565	-0.92103
St. deviation:	0.58544	2.9877	0.92539	3.1856
Maximum:	8.5000	8.2000	5.9000	9.2000
Minimum:	-3.2000	-9.1000	-4.9000	-10.500

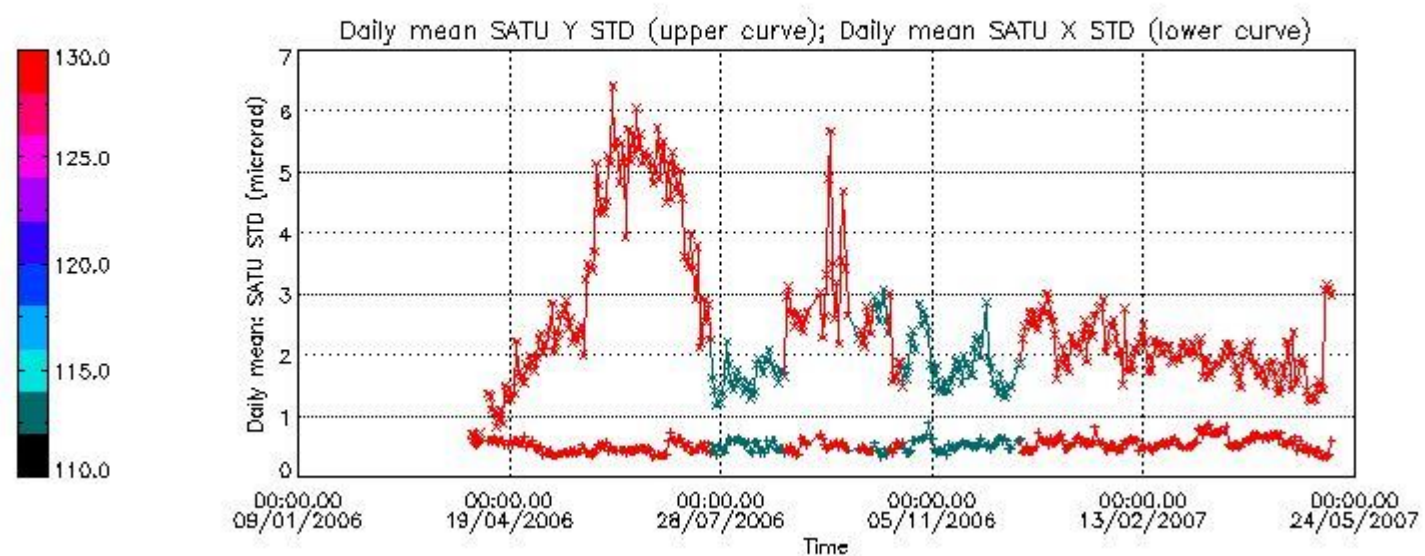
Number of data:	12400.	12400.	19750.	19750.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

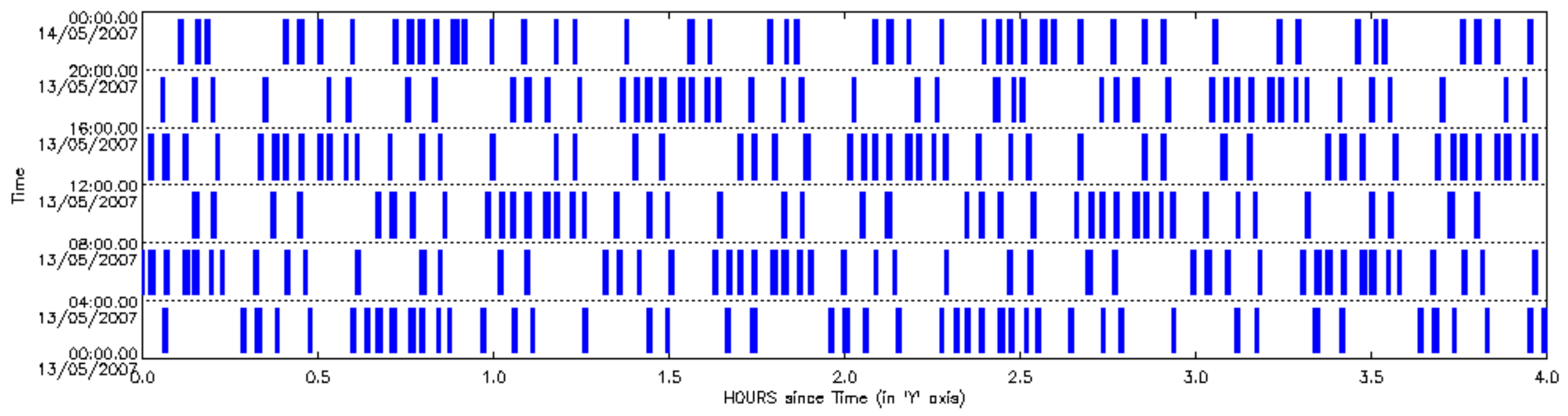
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

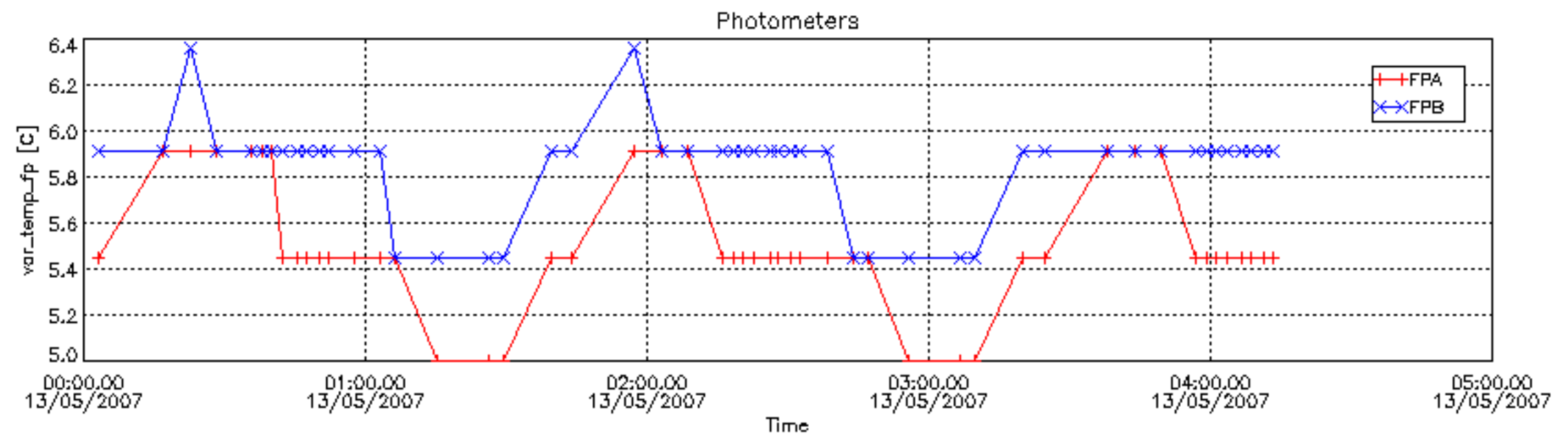
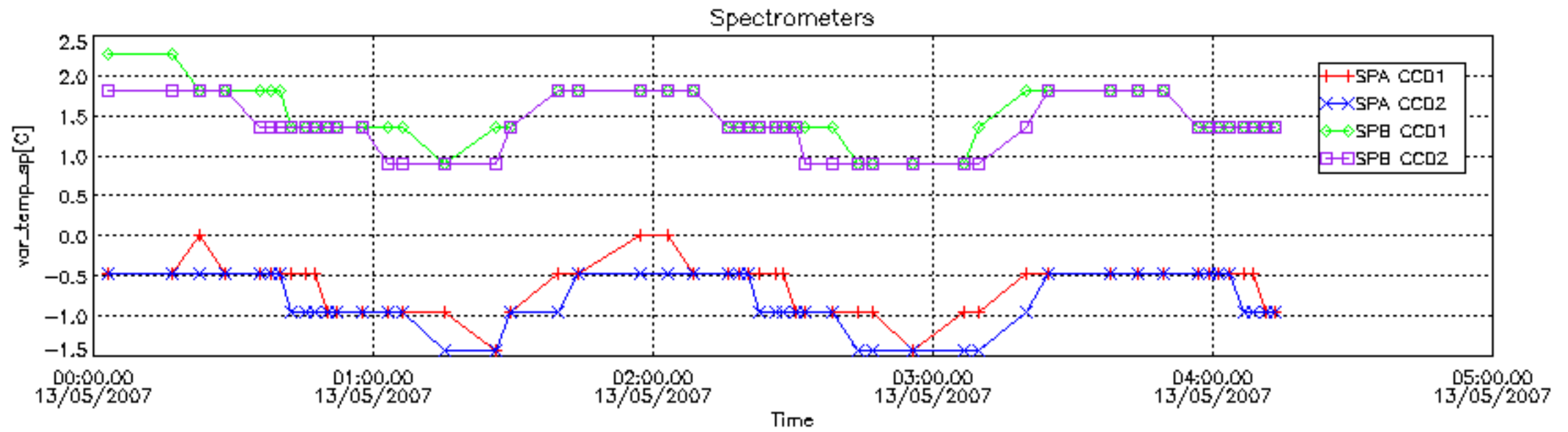


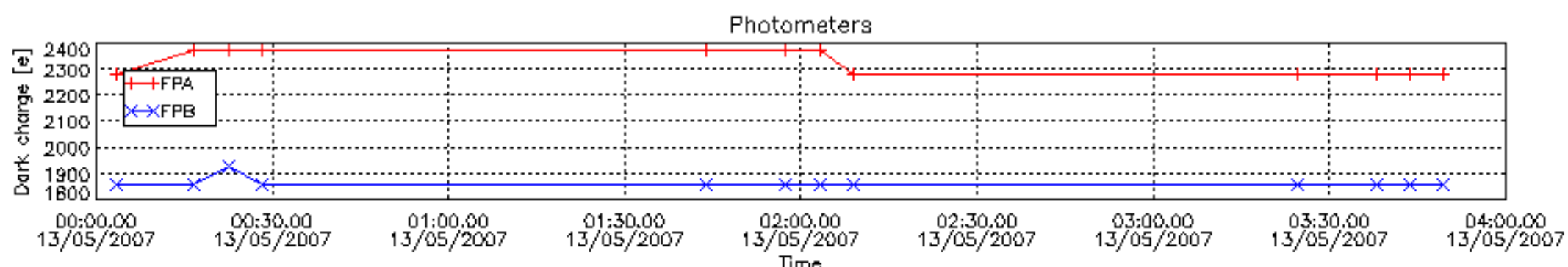
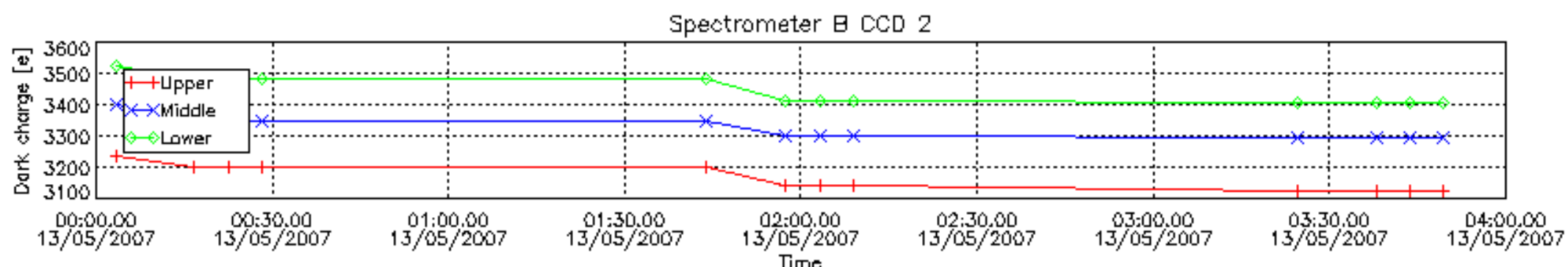
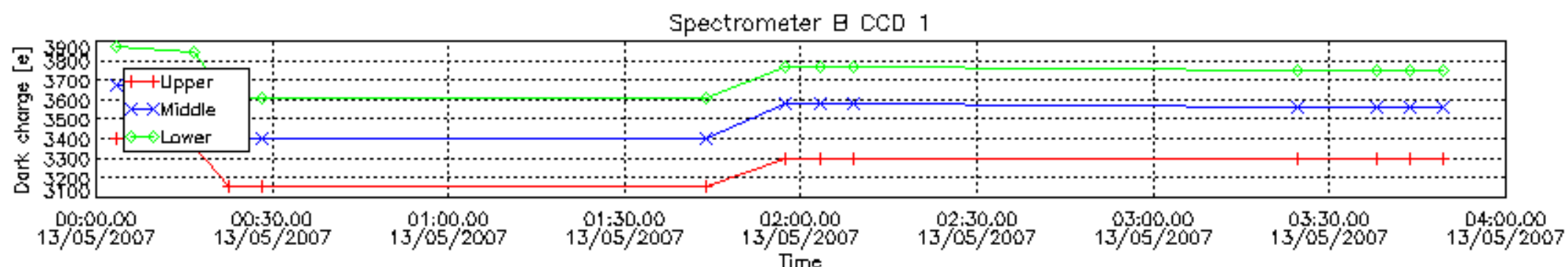
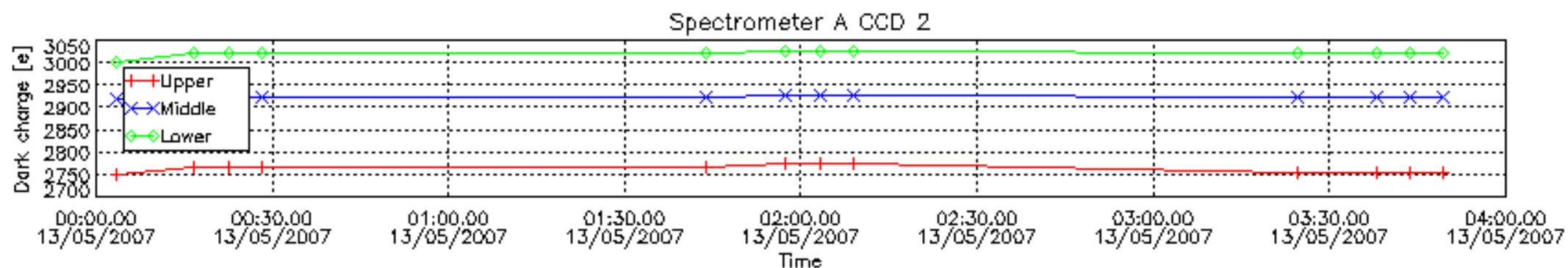
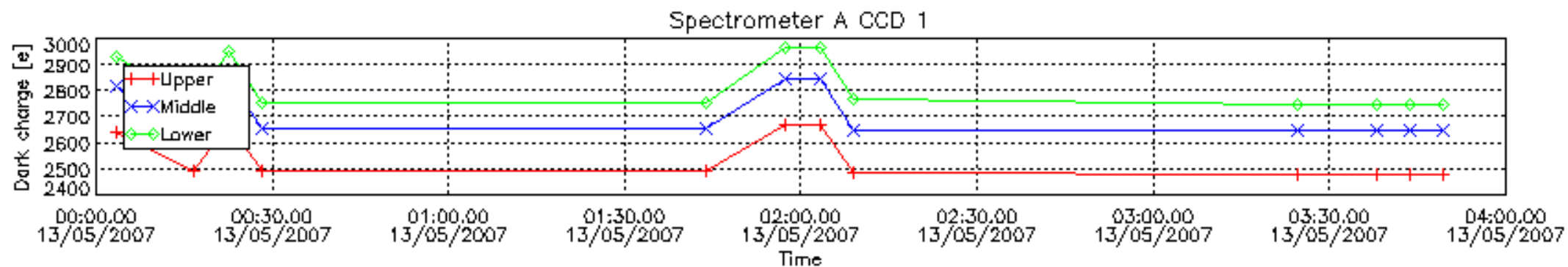
8. Auxiliary Data Files used for the production reported in section 2.4

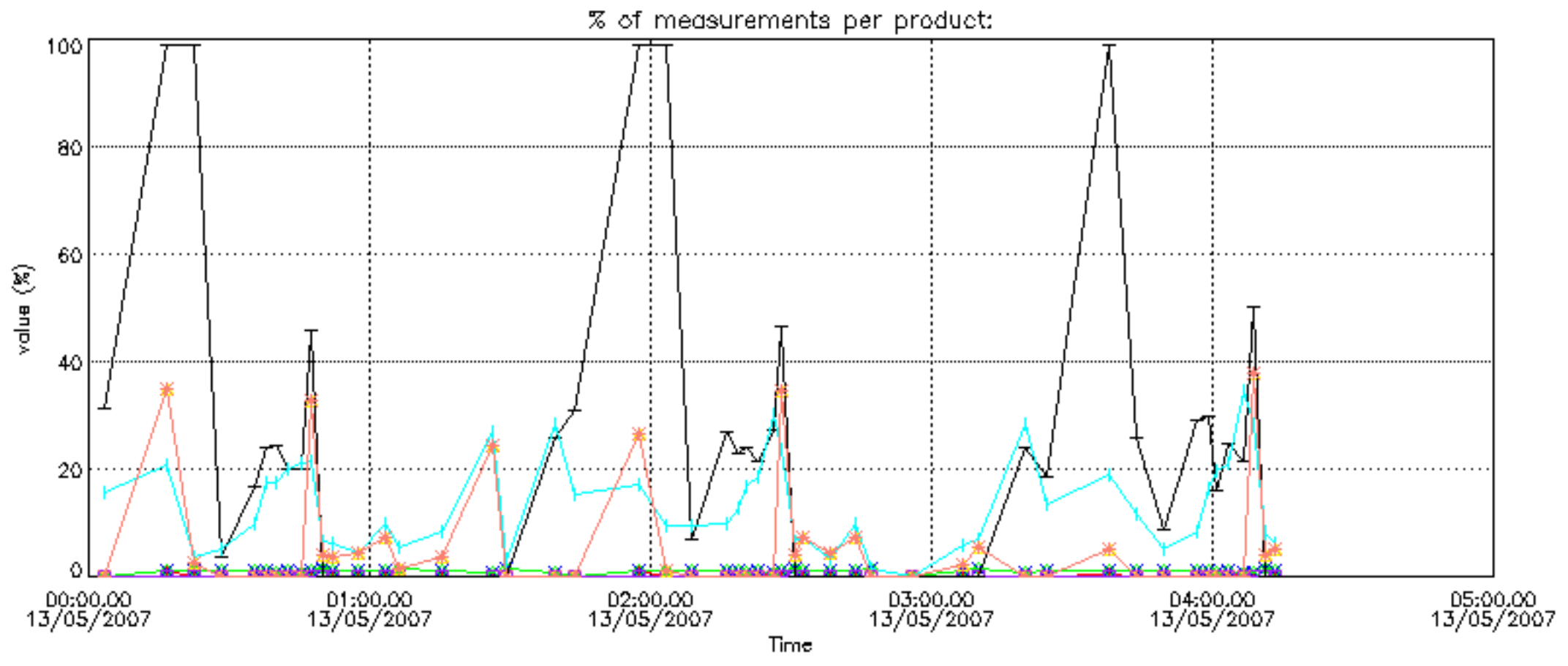
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	13-MAY-2007 00:03:19
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070503_074756_20070502_000000_20100101_000000	1	13-MAY-2007 00:03:19
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	13-MAY-2007 00:03:19
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-MAY-2007 00:03:19
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	13-MAY-2007 00:03:19
ECMWF_FILE	AUX_ECF_AXNECM20070514_114116_20070512_210000_20070513_090000	1	13-MAY-2007 00:03:19
ECMWF_FILE	AUX_ECF_AXNECM20070514_114112_20070513_030000_20070513_150000	36	13-MAY-2007 03:06:42
OPTIONAL_ECMWF_FILE	MISSING	1	13-MAY-2007 00:03:19
ORBIT_DATA_FILE	AUX_FRO_AXVPDS20070514_001111_20070510_221000_20070513_005000	1	13-MAY-2007 00:03:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070513_000850_000054192058_00073_27181_3471.N1	2	13-MAY-2007 00:16:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070513_014429_000041442058_00074_27182_3472.N1	36	13-MAY-2007 03:06:42

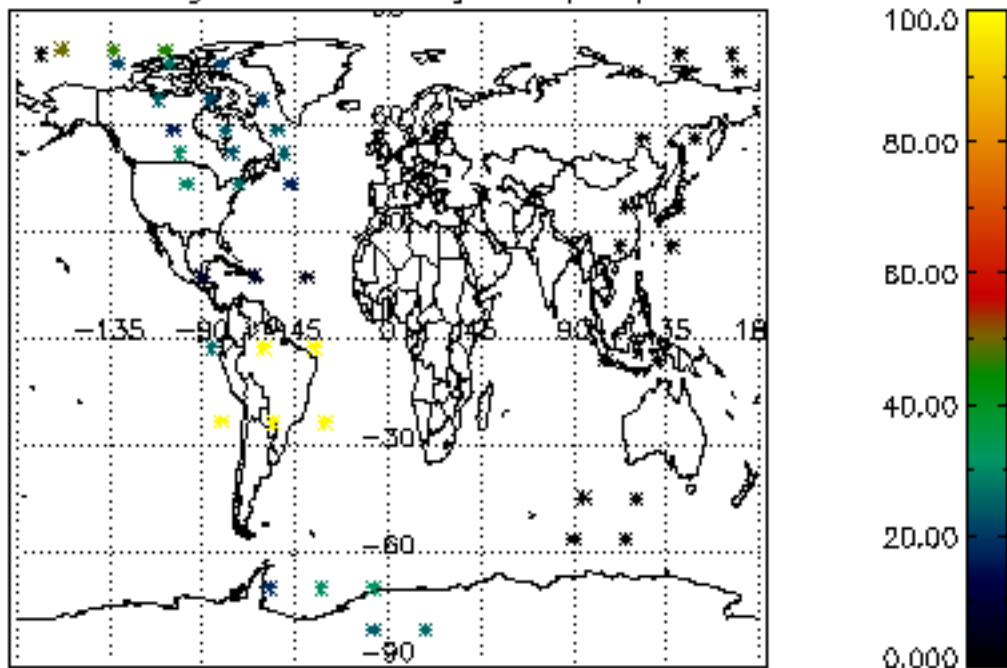




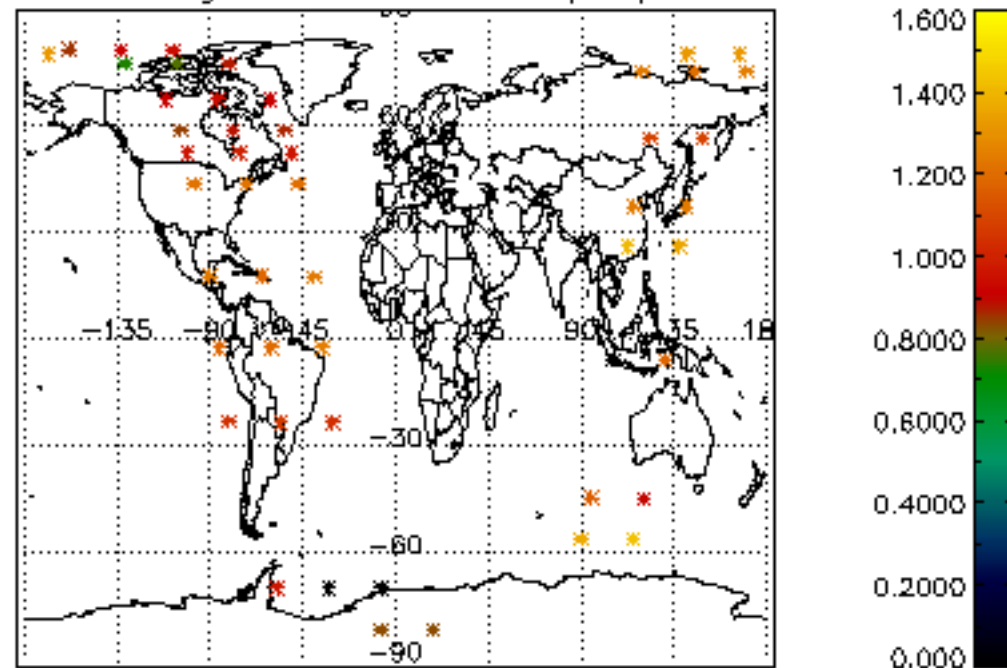




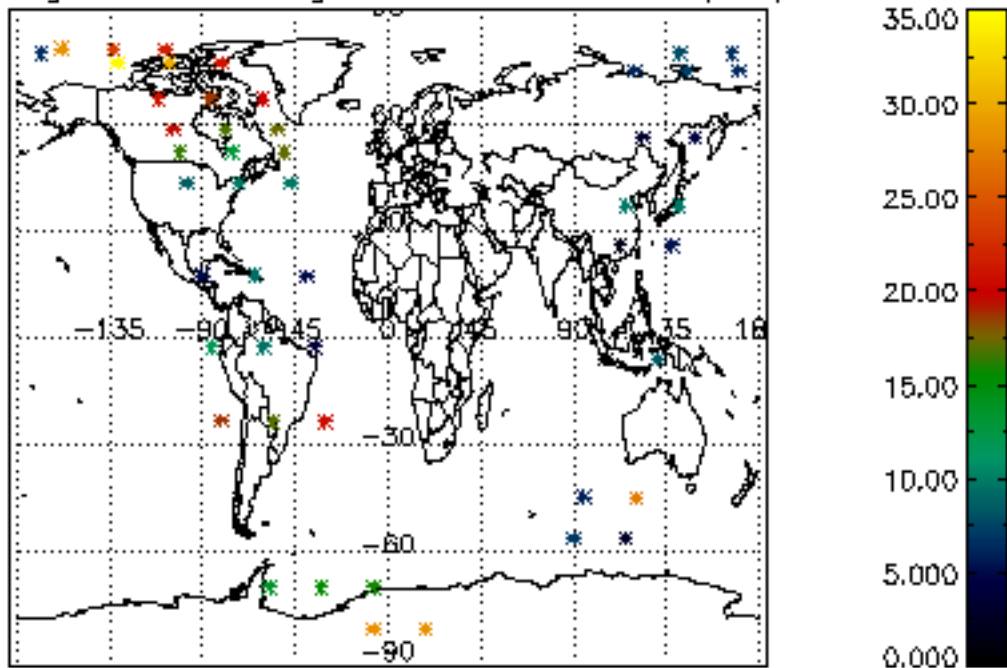
Percentage of cosmic ray hits per profile



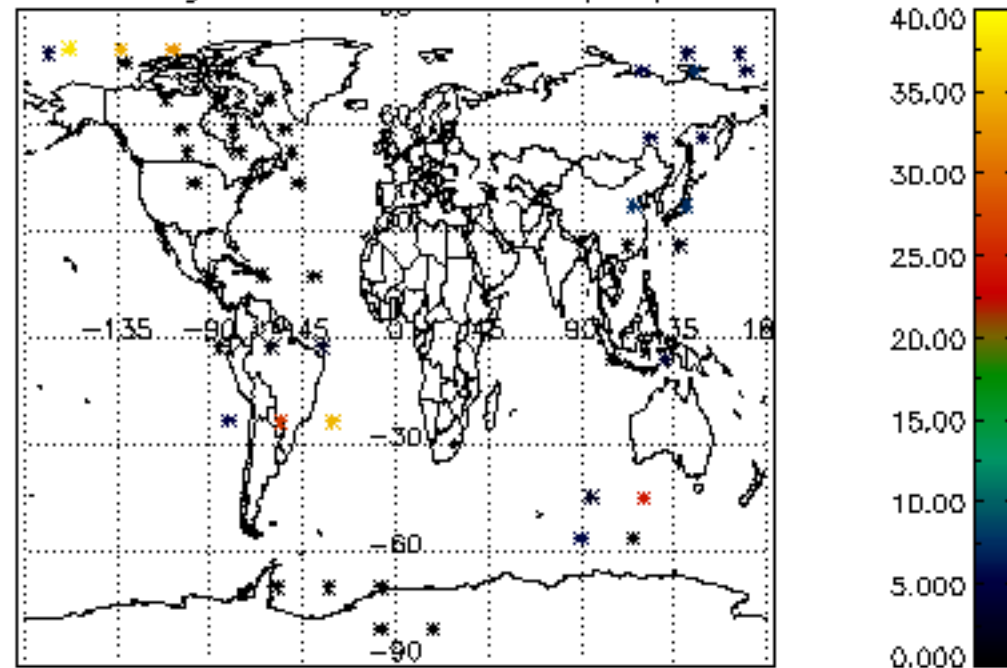
Percentage of datation errors per profile



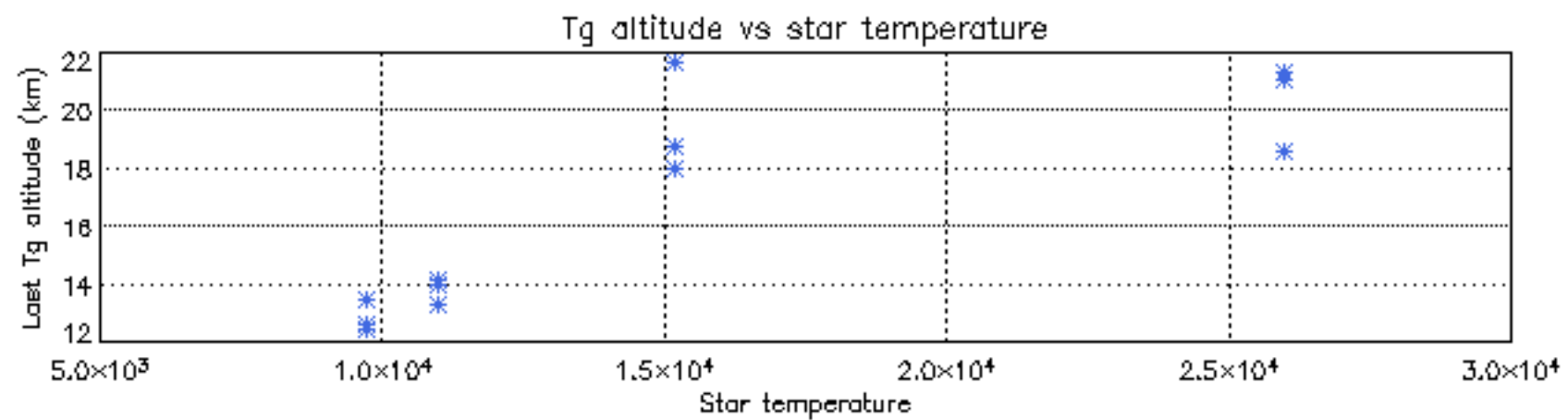
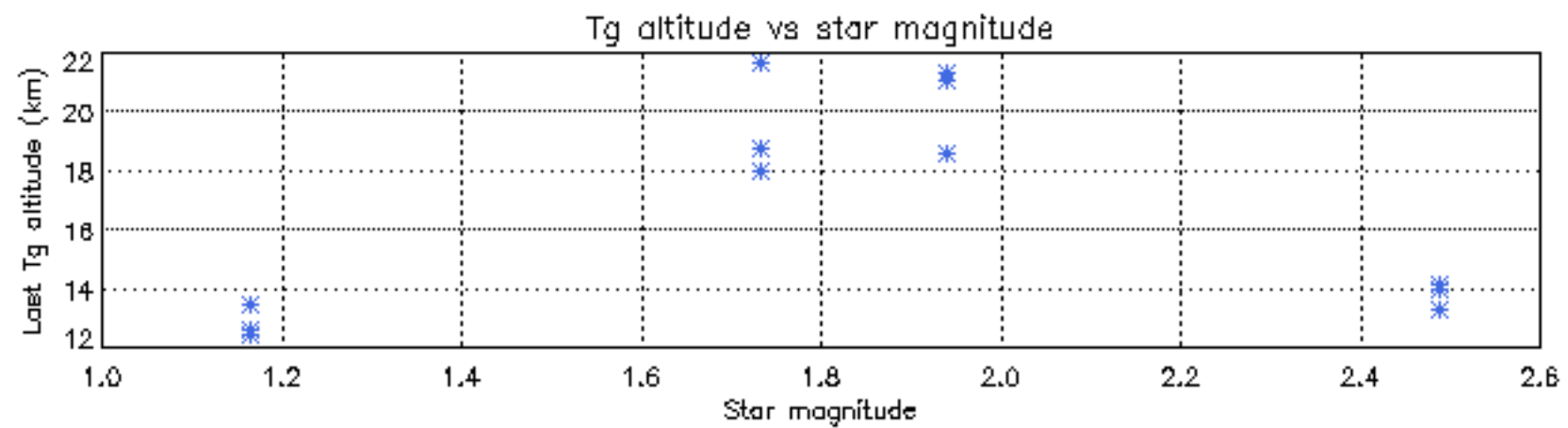
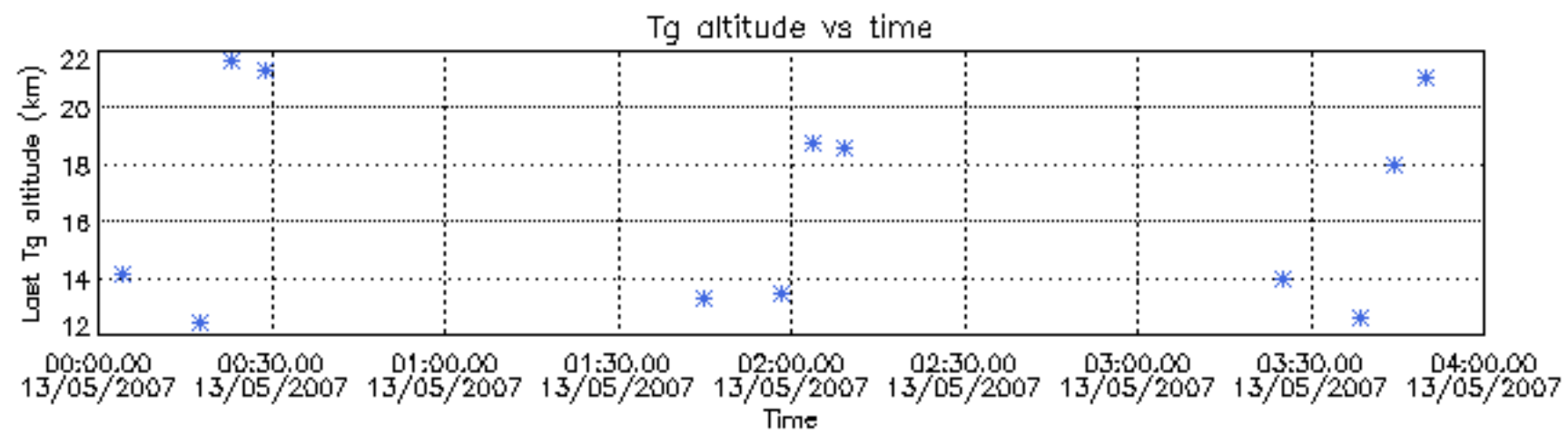
Percentage of star falling outside central band per profile



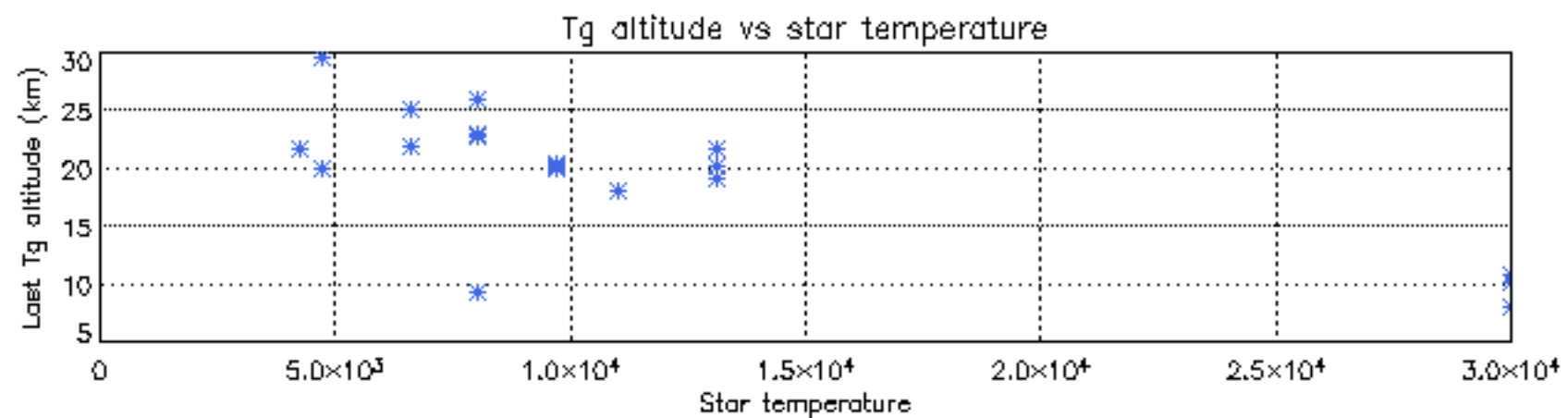
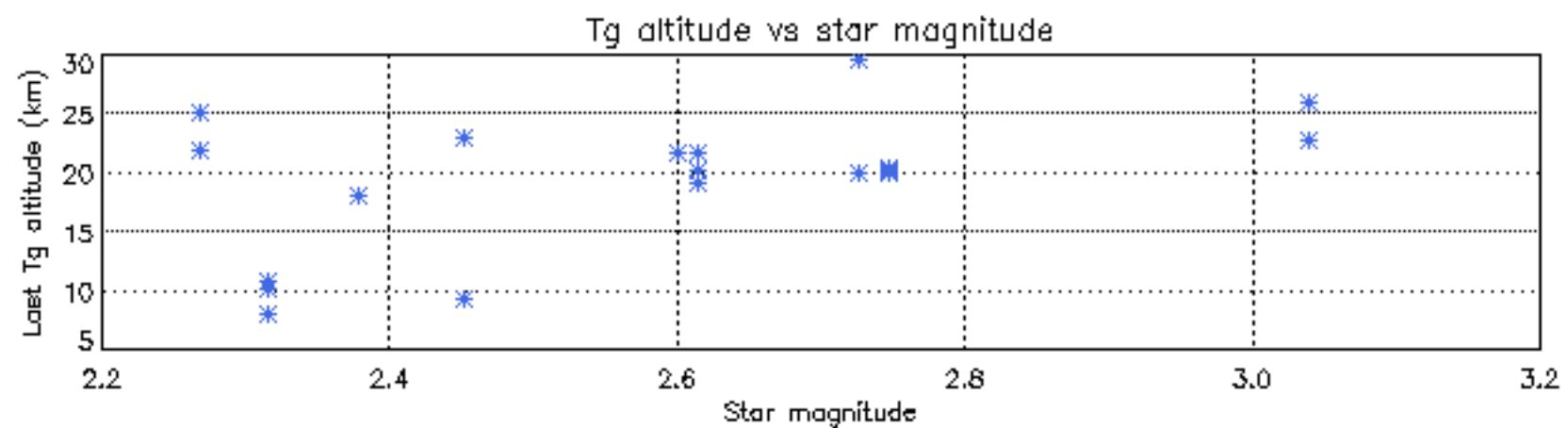
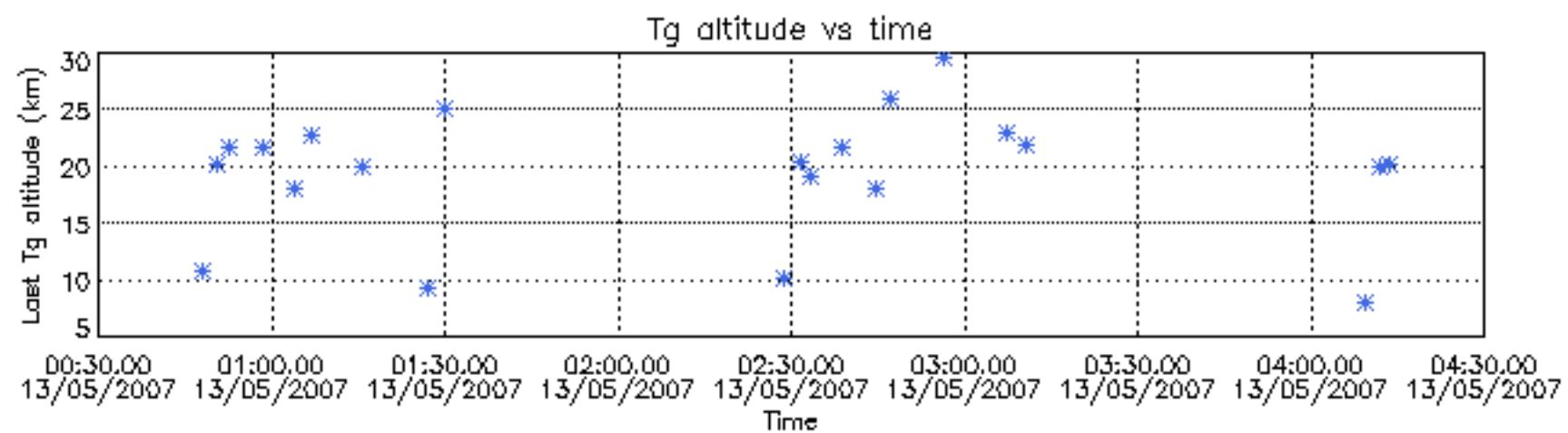
Percentage of saturation errors per profile

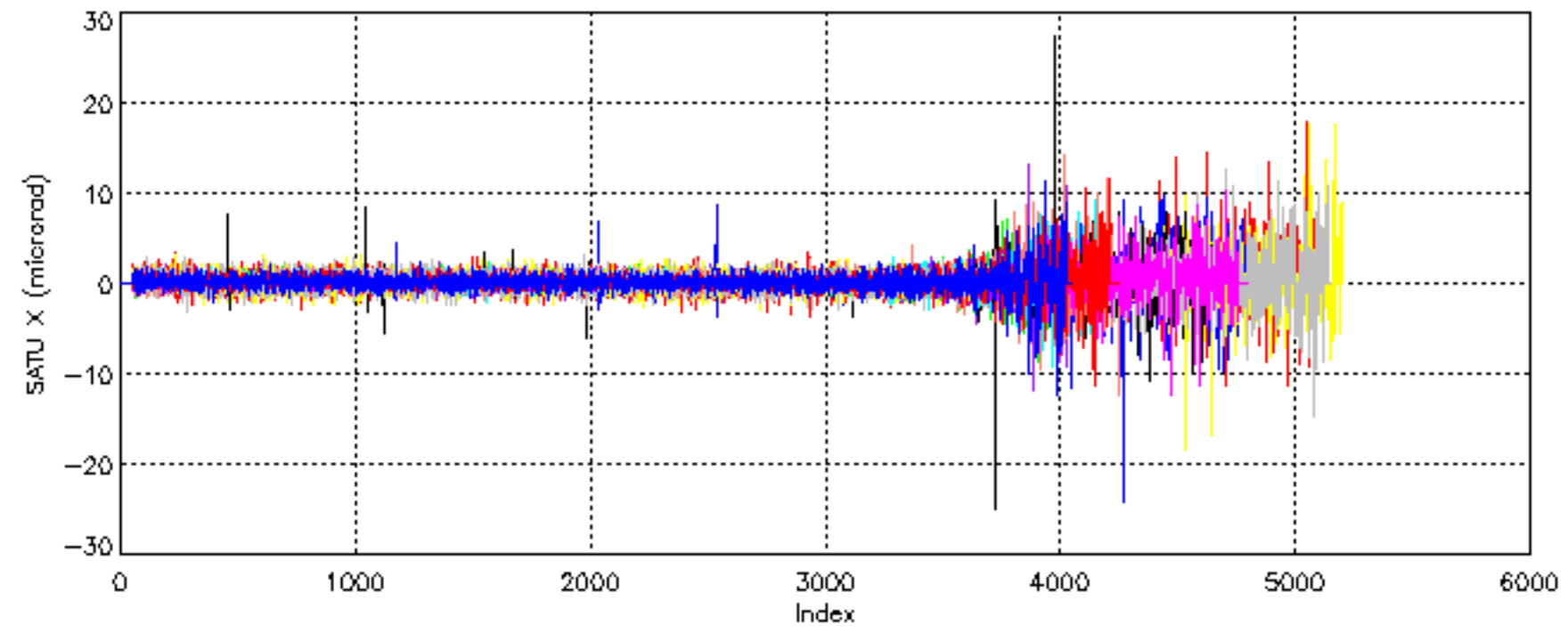


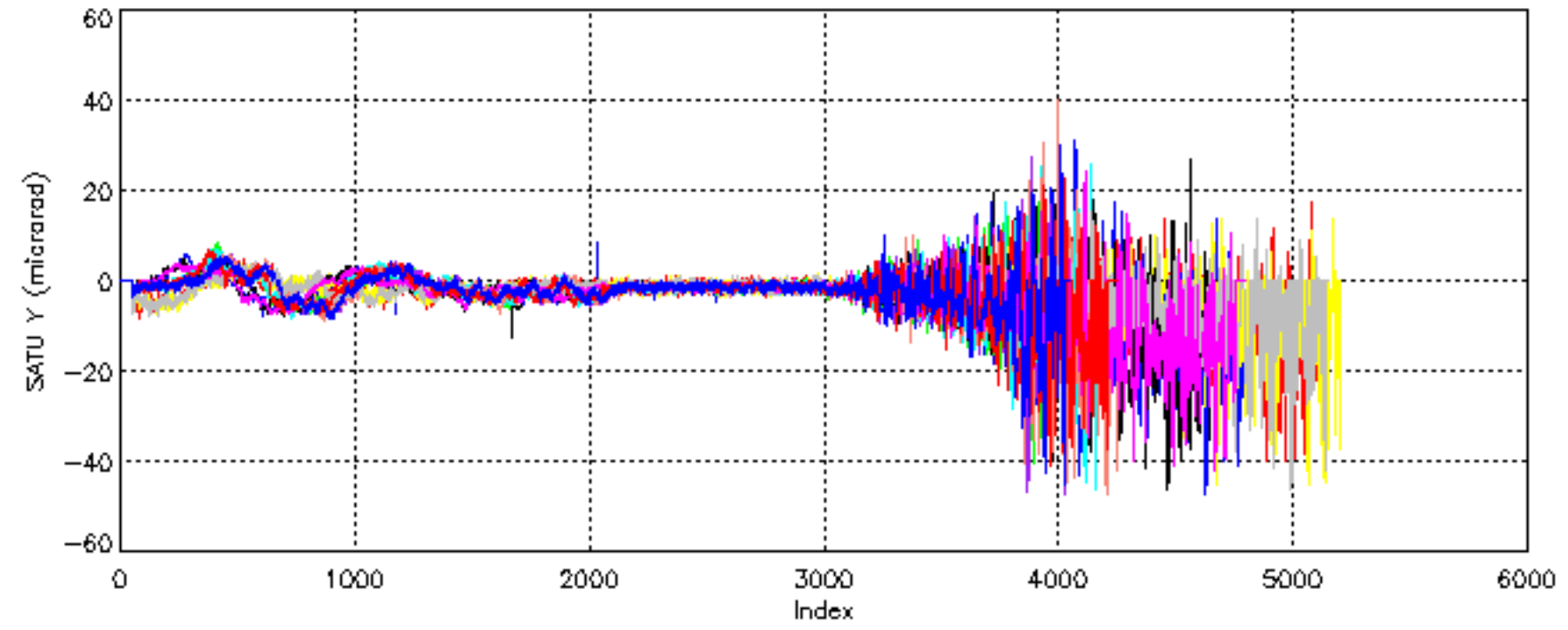
Tangent altitude at which the star is lost

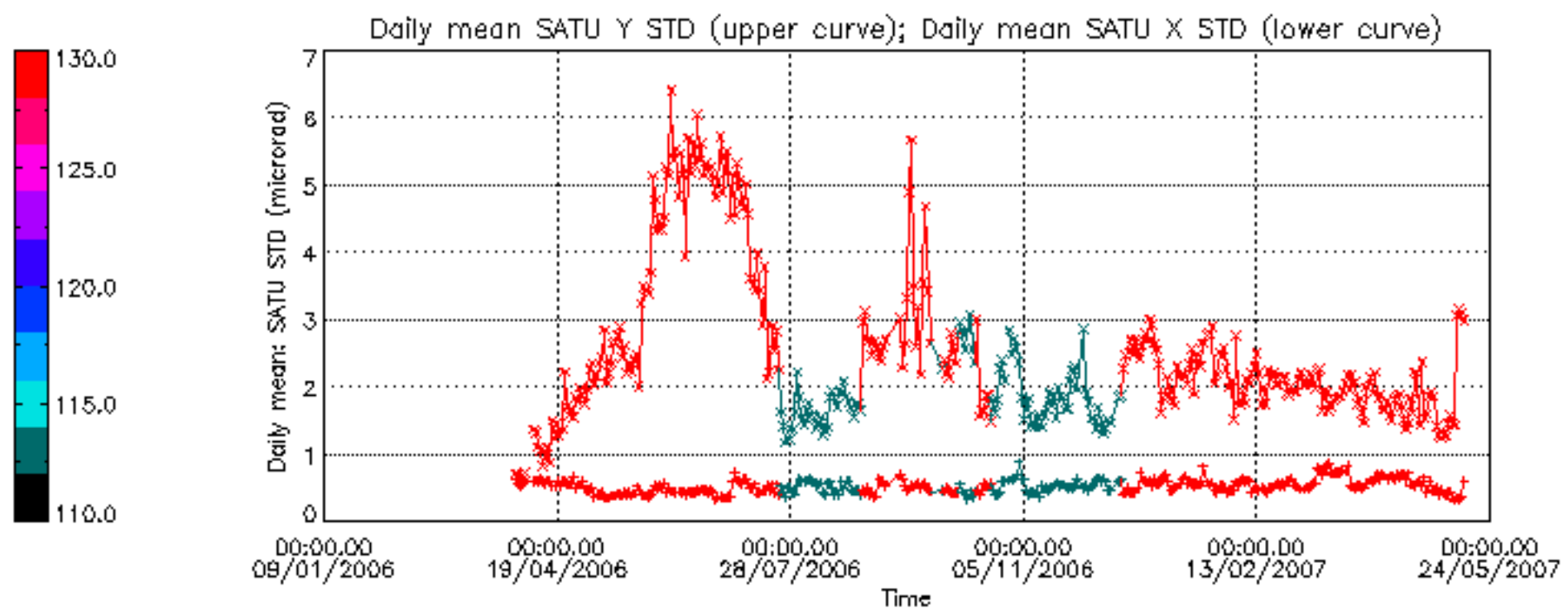


Tangent altitude at which the star is lost









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 3; 7.7; 01-MAY-2007 01:41:01; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;27011
 4; 177.8; 01-MAY-2007 01:43:51; Dark ; 35.0; 45; Alp Pav ; 1.94; 26000;occ; 70; 0;27011
 5; 575.4; 01-MAY-2007 01:50:28; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27011
 6; 707.1; 01-MAY-2007 01:52:40; Dark ; 42.5; 134; Bet TrA ; 2.81; 6600;occ; 85; 0;27011
 7; 831.2; 01-MAY-2007 01:54:44; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;27011
 8; 1036.0; 01-MAY-2007 01:58:09; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;27011
 9; 1129.0; 01-MAY-2007 01:59:42; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27011
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 13; 1895.7; 01-MAY-2007 02:12:29; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27011
 14; 2095.3; 01-MAY-2007 02:15:48; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27011
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 16; 2832.2; 01-MAY-2007 02:28:05; Bright; 35.0; 87; 64Gam UMA ; 2.43; 11000;occ; 70; 0;27011
 17; 2915.7; 01-MAY-2007 02:29:29; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;27011
 18; 2994.8; 01-MAY-2007 02:30:48; Bright; 35.5; 36; 50Alp UMA ; 1.80; 6300;occ; 71; 0;27011
 19; 3444.8; 01-MAY-2007 02:38:18; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;27011

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 2; -2036.1; 01-MAY-2007 02:47:33; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27011
 3; -495.7; 01-MAY-2007 03:13:13; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;27011
 4; -369.7; 01-MAY-2007 03:15:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27011
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 6; 8.2; 01-MAY-2007 03:21:37; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27012
 7; 178.5; 01-MAY-2007 03:24:27; Dark ; 32.0; 45; Alp Pav ; 1.94; 26000;occ; 64; 0;27012
 8; 575.9; 01-MAY-2007 03:31:05; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27012
 9; 707.7; 01-MAY-2007 03:33:17; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;27012
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 12; 1129.2; 01-MAY-2007 03:40:18; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27012
 13; 1254.8; 01-MAY-2007 03:42:24; Dark ; 41.5; 54; 5The Cen ; 2.06; 4500;occ; 83; 0;27012
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 17; 2095.5; 01-MAY-2007 03:56:24; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27012
 18; 2559.9; 01-MAY-2007 04:04:09; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27012
 19; 2832.5; 01-MAY-2007 04:08:41; Bright; 36.0; 87; 64Gam UMA ; 2.43; 11000;occ; 72; 0;27012
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 21; 2995.2; 01-MAY-2007 04:11:24; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;27012
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 6; 8.5; 01-MAY-2007 05:02:13; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;27013
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 8; 576.2; 01-MAY-2007 05:11:41; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27013
 9; 707.9; 01-MAY-2007 05:13:53; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27013
 10; 831.8; 01-MAY-2007 05:15:57; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;27013
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 21; 2995.5; 01-MAY-2007 05:52:00; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;27013
 22; 3444.9; 01-MAY-2007 05:59:30; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27013

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3; 1257.2; 01-MAY-2007 20:28:26; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;27022
4; 1514.0; 01-MAY-2007 20:32:42; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;27022
5; 1713.0; 01-MAY-2007 20:36:01; Bright; 38.0; 15; 67Alp Vir ; 0.98; 28000;occ; 76; 0;27022
6; 1897.6; 01-MAY-2007 20:39:06; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27022
7; 2096.1; 01-MAY-2007 20:42:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27022
8; 2559.8; 01-MAY-2007 20:50:08; Bright; 52.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 104; 0;27022
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10; 2918.7; 01-MAY-2007 20:56:07; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;27022
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12; 3444.8; 01-MAY-2007 21:04:53; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27022
13; 3918.9; 01-MAY-2007 21:12:47; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;27022
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3; -143.9; 01-MAY-2007 21:45:40; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;27022
4; 12.1; 01-MAY-2007 21:48:16; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;27023
5; 579.7; 01-MAY-2007 21:57:44; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;27023
6; 711.6; 01-MAY-2007 21:59:56; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;27023
7; 834.5; 01-MAY-2007 22:01:59; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27023
8; 1040.0; 01-MAY-2007 22:05:24; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27023
9; 1132.5; 01-MAY-2007 22:06:57; Dark ; 41.0; 81; Eta Cen ; 2.36; 28000;occ; 82; 0;27023
10; 1257.6; 01-MAY-2007 22:09:02; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;27023
11; 1514.0; 01-MAY-2007 22:13:18; Dark ; 39.5; 169; 46Gam Hya ; 2.99; 4700;occ; 79; 0;27023
12; 1713.1; 01-MAY-2007 22:16:37; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;27023
13; 1897.7; 01-MAY-2007 22:19:42; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27023
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18; 2997.7; 01-MAY-2007 22:38:02; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;27023
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4; 12.4; 01-MAY-2007 23:28:53; Dark ; 37.0; 148; Alp Tuc ; 2.88; 4100;occ; 74; 0;27024
5; 580.0; 01-MAY-2007 23:38:20; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27024
6; 711.9; 01-MAY-2007 23:40:32; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27024
7; 834.7; 01-MAY-2007 23:42:35; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;27024
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9; 1132.8; 01-MAY-2007 23:47:33; Dark ; 40.0; 81; Eta Cen ; 2.36; 28000;occ; 80; 0;27024
10; 1257.7; 01-MAY-2007 23:49:38; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27024
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14; 2096.3; 02-MAY-2007 00:03:36; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27024
15; 2834.2; 02-MAY-2007 00:15:54; Bright; 33.5; 87; 64Gam UMa ; 2.43; 11000;occ; 67; 0;27024
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17; 2997.9; 02-MAY-2007 00:18:38; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;27024
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 19; 3444.9; 04-MAY-2007 01:03:27; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27053
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 6; 19.4; 03-MAY-2007 07:20:22; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27043
 7; 586.9; 03-MAY-2007 07:29:50; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;27043
 8; 718.9; 03-MAY-2007 07:32:02; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
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 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
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 11; 1138.5; 03-MAY-2007 07:39:02; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
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 5; 2837.4; 03-MAY-2007 08:07:20; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;27043
 6; 2925.1; 03-MAY-2007 08:08:48; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;27043
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 9; 3922.2; 03-MAY-2007 08:25:25; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27043
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 16; 6755.1; 03-MAY-2007 09:12:38; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
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2; -2031.9; 04-MAY-2007 06:14:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;27056
3; -472.6; 04-MAY-2007 06:40:34; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;27056
4; -301.2; 04-MAY-2007 06:43:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27056
5; -124.1; 04-MAY-2007 06:46:22; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;27056
6; 24.8; 04-MAY-2007 06:48:51; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27057
7; 591.8; 04-MAY-2007 06:58:18; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;27057
8; 723.7; 04-MAY-2007 07:00:30; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
9; 843.3; 04-MAY-2007 07:02:29; Dark ; 51.0; 4; Alp1Cen ;-0.01; 5800;occ; 102; 0;27057
10; 1050.5; 04-MAY-2007 07:05:57; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;27057
11; 1142.6; 04-MAY-2007 07:07:29; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27057
12; 1265.5; 04-MAY-2007 07:09:32; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27057
13; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057
14; 1717.5; 04-MAY-2007 07:17:04; Bright; 27.0; 15; 67Alp Vir ; 0.98; 28000;occ; 54; 0;27057

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2; -2031.9; 04-MAY-2007 06:14:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;27056

3; -472.6; 04-MAY-2007 06:40:34; Dark ; 34.0; 18; 24Alp PsA ; 1.17; 9700;occ; 68; 0;27056

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3; 24.8; 04-MAY-2007 06:48:51; Dark ; 0.0; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;27057
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2; 591.8; 04-MAY-2007 06:58:18; Dark ; 20.0; 43; Alp TrA ; 1.91; 4250;occ; 40; 0;27057
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2; 723.7; 04-MAY-2007 07:00:30; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
3; 843.3; 04-MAY-2007 07:02:29; Dark ; 38.0; 4; Alp1Cen ; -0.01; 5800;occ; 76; 0;27057
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2; 1050.5; 04-MAY-2007 07:05:57; Dark ; 21.5; 78; Alp Lup ; 2.30; 28000;occ; 43; 0;27057
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2; 1142.6; 04-MAY-2007 07:07:29; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27057
3; 1265.5; 04-MAY-2007 07:09:32; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27057
4; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057
5; 1717.5; 04-MAY-2007 07:17:04; Bright; 27.0; 15; 67Alp Vir ; 0.98; 28000;occ; 54; 0;27057
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2; 1903.8; 04-MAY-2007 07:20:10; Bright; 35.0; 121; 29Gam Vir ; 2.74; 7200;occ; 70; 0;27057
3; 2099.2; 04-MAY-2007 07:23:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27057
4; 2560.1; 04-MAY-2007 07:31:06; Bright; 7.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 15; 0;27057
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2; 1903.8; 04-MAY-2007 07:20:10; Bright; 35.0; 121; 29Gam Vir ; 2.74; 7200;occ; 70; 0;27057
3; 2099.2; 04-MAY-2007 07:23:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27057
4; 2560.1; 04-MAY-2007 07:31:06; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27057
5; 2839.9; 04-MAY-2007 07:35:46; Bright; 34.0; 87; 64Gam UMa ; 2.43; 11000;occ; 68; 0;27057
6; 2929.5; 04-MAY-2007 07:37:16; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;27057
7; 3006.2; 04-MAY-2007 07:38:32; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27057
8; 3445.1; 04-MAY-2007 07:45:51; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27057
9; 3924.0; 04-MAY-2007 07:53:50; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27057
10; 4004.0; 04-MAY-2007 07:55:10; Bright; 46.5; 68; 18Alp Cas ; 2.22; 4500;occ; 93; 0;27057
11; 5564.0; 04-MAY-2007 08:21:10; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;27057
12; 5735.0; 04-MAY-2007 08:24:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27057
13; 5912.4; 04-MAY-2007 08:26:58; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;27057
14; 6061.1; 04-MAY-2007 08:29:27; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;27057
15; 6628.2; 04-MAY-2007 08:38:54; Dark ; 44.5; 43; Alp TrA ; 1.91; 4250;occ; 89; 0;27057
16; 6760.0; 04-MAY-2007 08:41:06; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
17; 6879.5; 04-MAY-2007 08:43:06; Dark ; 51.5; 4; Alp1Cen ; -0.01; 5800;occ; 103; 0;27057
18; 7086.8; 04-MAY-2007 08:46:33; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;27057
19; 7178.9; 04-MAY-2007 08:48:05; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;27057
20; 7301.8; 04-MAY-2007 08:50:08; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27057
21; 7555.8; 04-MAY-2007 08:54:22; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27057
22; 7753.5; 04-MAY-2007 08:57:40; Bright; 37.0; 15; 67Alp Vir ; 0.98; 28000;occ; 74; 0;27057
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2; 2839.9; 04-MAY-2007 07:35:46; Bright; 34.0; 87; 64Gam UMa ; 2.43; 11000;occ; 68; 0;27057
3; 2929.5; 04-MAY-2007 07:37:16; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;27057
4; 3006.2; 04-MAY-2007 07:38:32; Bright; 15.5; 36; 50Alp UMa ; 1.80; 6300;occ; 31; 0;27057
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2; -2590.8; 04-MAY-2007 07:45:51; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27057
3; -2111.9; 04-MAY-2007 07:53:50; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27057
4; -2031.9; 04-MAY-2007 07:55:10; Bright; 46.5; 68; 18Alp Cas ; 2.22; 4500;occ; 93; 0;27057
5; -471.9; 04-MAY-2007 08:21:10; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;27057
6; -300.9; 04-MAY-2007 08:24:01; Dark ; 41.0; 0; ; 0.00; 0;occ; 82; 0;27057
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2; 25.1; 04-MAY-2007 08:29:27; Dark ; 1.0; 148; Alp Tuc ; 2.88; 4100;occ; 2; 0;27058
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2; 2560.2; 04-MAY-2007 09:11:42; Bright; 35.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 71; 0;27058
3; 2840.3; 04-MAY-2007 09:16:22; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;27058
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2; 3006.5; 04-MAY-2007 09:19:09; Bright; 22.0; 36; 50Alp UMa ; 1.80; 6300;occ; 44; 0;27058
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2;-2590.8; 04-MAY-2007 09:26:27; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27058
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2;-2031.8; 04-MAY-2007 09:35:46; Bright; 24.5; 68; 18Alp Cas ; 2.22; 4500;occ; 49; 0;27058
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 2; 593.3; 04-MAY-2007 13:40:43; Dark ; 22.5; 43; Alp TrA ; 1.91; 4250;occ; 45; 0;27061
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 2; 725.2; 04-MAY-2007 13:42:55; Dark ; 29.5; 134; Bet TrA ; 2.81; 6600;occ; 59; 0;27061
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2; 1266.5; 04-MAY-2007 13:51:56; Dark ; 5.0; 54; 5The Cen ; 2.06; 4500;occ; 10; 0;27061
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2; 1718.1; 04-MAY-2007 13:59:28; Bright; 12.0; 15; 67Alp Vir ; 0.98; 28000;occ; 24; 0;27061
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2; 1904.3; 04-MAY-2007 14:02:34; Bright; 25.5; 121; 29Gam Vir ; 2.74; 7200;occ; 51; 0;27061
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2; 2099.7; 04-MAY-2007 14:05:49; Bright; 6.0; 138; 47Eps Vir ; 2.83; 4700;occ; 12; 0;27061
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2; 2560.4; 04-MAY-2007 14:13:30; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27061
3; 2845.2; 04-MAY-2007 14:18:15; Bright; 34.0; 55; 79Zet UMa ; 2.06; 10200;occ; 68; 0;27061
4; 2930.7; 04-MAY-2007 14:19:40; Bright; 12.5; 82; 48Bet UMa ; 2.37; 10600;occ; 25; 0;27061
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2; 3007.4; 04-MAY-2007 14:20:57; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;27061
3; 3445.3; 04-MAY-2007 14:28:15; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27061
4; 3924.8; 04-MAY-2007 14:36:14; Bright; 19.0; 110; 37Del Cas ; 2.68; 8900;occ; 38; 0;27061
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2; -2031.4; 04-MAY-2007 14:37:34; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27061
3; -786.6; 04-MAY-2007 14:58:19; Dark ; 1.5; 52; 16Bet Cet ; 2.04; 4500;occ; 3; 0;27061
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2; 26.7; 04-MAY-2007 15:11:52; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;27062
3; 593.6; 04-MAY-2007 15:21:19; Dark ; 13.5; 43; Alp TrA ; 1.91; 4250;occ; 27; 0;27062
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1; 1080.0; 04-MAY-2007 15:29:26; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 56;27062
2; 1143.9; 04-MAY-2007 15:30:29; Dark ; 9.0; 81; Eta Cen ; 2.36; 28000;occ; 18; 0;27062
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2; 1266.8; 04-MAY-2007 15:32:32; Dark ; 1.0; 54; 5The Cen ; 2.06; 4500;occ; 2; 0;27062
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070504_153233_000000082057_00455_27062_6677.N1
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2; 1906.6; 05-MAY-2007 11:50:23; Bright; 36.5; 121; 29Gam Vir ; 2.74; 7200;occ; 73; 0;27074
3; 2100.9; 05-MAY-2007 11:53:38; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27074
4; 2560.8; 05-MAY-2007 12:01:18; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;27074
5; 2844.0; 05-MAY-2007 12:06:01; Bright; 36.0; 55; 79Zet UMa ; 2.06; 10200;occ; 72; 0;27074
6; 2934.8; 05-MAY-2007 12:07:32; Bright; 36.5; 82; 48Bet UMa ; 2.37; 10600;occ; 73; 0;27074
7; 3010.8; 05-MAY-2007 12:08:48; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;27074
8; 3445.1; 05-MAY-2007 12:16:02; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27074
9; 3926.5; 05-MAY-2007 12:24:03; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;27074
10; 4005.2; 05-MAY-2007 12:25:22; Bright; 33.0; 68; 18Alp Cas ; 2.22; 4500;occ; 66; 0;27074
11; 5251.2; 05-MAY-2007 12:46:08; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;27074
12; 5573.4; 05-MAY-2007 12:51:30; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;27074
13; 5739.9; 05-MAY-2007 12:54:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27074
14; 5922.6; 05-MAY-2007 12:57:19; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27074
15; 6067.6; 05-MAY-2007 12:59:44; Dark ; 44.0; 148; Alp Tuc ; 2.88; 4100;occ; 88; 0;27074
16; 6633.9; 05-MAY-2007 13:09:11; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;27074
17; 6765.9; 05-MAY-2007 13:11:23; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27074
18; 6883.6; 05-MAY-2007 13:13:20; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;27074
19; 7091.6; 05-MAY-2007 13:16:48; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;27074
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 5; 2222.5; 08-MAY-2007 12:01:24; Bright; 35.5; 111; 8Eta Boo ; 2.68; 6000;occ; 71; 0;27117
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3; 2373.2; 21-MAY-2007 08:34:07; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27301
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11; 4786.9; 21-MAY-2007 09:14:20; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27301
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16; 6413.4; 21-MAY-2007 09:41:27; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27301
17; 6829.4; 21-MAY-2007 09:48:23; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27301
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23; 7767.6; 21-MAY-2007 10:04:01; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;27301

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6; 3060.6; 21-MAY-2007 10:26:10; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27302
7; 3175.6; 21-MAY-2007 10:28:05; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27302
8; 3446.4; 21-MAY-2007 10:32:36; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27302
9; 3937.9; 21-MAY-2007 10:40:47; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27302
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12; 4787.2; 21-MAY-2007 10:54:57; Dark ; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;27302
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9; 3937.8; 21-MAY-2007 12:21:23; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;27303
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5; 2030.3; 21-MAY-2007 16:51:23; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;27306
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10; 4797.0; 23-MAY-2007 09:51:53; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27330
11; 5325.1; 23-MAY-2007 10:00:41; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27330
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13; 6010.1; 23-MAY-2007 10:12:06; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27330
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15; 6433.8; 23-MAY-2007 10:19:09; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27330
16; 6842.7; 23-MAY-2007 10:25:58; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27330
17; 7008.2; 23-MAY-2007 10:28:44; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;27330
18; 7242.7; 23-MAY-2007 10:32:38; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;27330
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20; 7510.4; 23-MAY-2007 10:37:06; Bright; 43.0; 80; 7Del Sco ; 2.32; 30000;occ; 86; 0;27330
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3; 2026.0; 23-MAY-2007 10:46:18; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;27331
4; 2370.8; 23-MAY-2007 10:52:02; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27331
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8; 3446.6; 23-MAY-2007 11:09:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27331
9; 3937.2; 23-MAY-2007 11:18:09; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;27331
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13; 5325.6; 23-MAY-2007 11:41:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;27331
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16; 6110.9; 23-MAY-2007 11:54:22; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27331
17; 6434.6; 23-MAY-2007 11:59:46; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27331
18; 6843.1; 23-MAY-2007 12:06:35; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;27331
19; 7008.7; 23-MAY-2007 12:09:20; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;27331
20; 7243.0; 23-MAY-2007 12:13:14; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27331
21; 7415.4; 23-MAY-2007 12:16:07; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27331
22; 7560.0; 23-MAY-2007 12:18:32; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27331
23; 7666.0; 23-MAY-2007 12:20:18; Bright; 16.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 33; 0;27331

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2;	1734.1;	23-MAY-2007	12:22:02;	Bright;	37.0;	104;	27Bet Lib	;	2.61;	13100;occ;	74;	0;	27332
3;	2025.9;	23-MAY-2007	12:26:53;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27332
4;	2370.7;	23-MAY-2007	12:32:38;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27332
5;	2560.6;	23-MAY-2007	12:35:48;	Bright;	34.0;	180;	27Gam Boo	;	3.04;	8000;occ;	68;	0;	27332
6;	3048.6;	23-MAY-2007	12:43:56;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;	27332
7;	3173.1;	23-MAY-2007	12:46:01;	Bright;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	27332
8;	3446.6;	23-MAY-2007	12:50:34;	Bright;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	27332
9;	3937.2;	23-MAY-2007	12:58:45;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;	27332
10;	4009.5;	23-MAY-2007	12:59:57;	Bright;	46.5;	68;	18Alp Cas	;	2.22;	4500;occ;	93;	0;	27332
11;	4532.2;	23-MAY-2007	13:08:40;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	93;	0;	27332
12;	4797.6;	23-MAY-2007	13:13:05;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	90;	0;	27332
13;	5326.1;	23-MAY-2007	13:21:53;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	87;	0;	27332
14;	5848.5;	23-MAY-2007	13:30:36;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27332
15;	6011.6;	23-MAY-2007	13:33:19;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	114;	0;	27332
16;	6111.7;	23-MAY-2007	13:34:59;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	98;	0;	27332
17;	6435.3;	23-MAY-2007	13:40:23;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	95;	0;	27332
18;	6843.6;	23-MAY-2007	13:47:11;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	82;	0;	27332
19;	7009.4;	23-MAY-2007	13:49:57;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	94;	0;	27332
20;	7243.5;	23-MAY-2007	13:53:51;	Dark	;	75;	26Eps Sco	;	2.29;	4250;occ;	99;	0;	27332
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2;	1630.4;	23-MAY-2007	14:00:54;	Bright;	35.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	71;	0;	27333	
3;	1734.1;	23-MAY-2007	14:02:37;	Bright;	37.5;	104;	27Bet Lib	;	2.61;	13100;occ;	75;	0;	27333	
4;	2025.8;	23-MAY-2007	14:07:29;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27333	
5;	2370.8;	23-MAY-2007	14:13:14;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27333	
6;	2560.6;	23-MAY-2007	14:16:24;	Bright;	35.0;	180;	27Gam Boo	;	3.04;	8000;occ;	70;	0;	27333	
7;	3048.3;	23-MAY-2007	14:24:32;	Bright;	58.0;	119;	14Eta Dra	;	2.73;	4700;occ;	116;	0;	27333	
8;	3173.1;	23-MAY-2007	14:26:36;	Bright;	38.5;	60;	7Bet UMi	;	2.08;	3950;occ;	77;	0;	27333	
9;	3446.7;	23-MAY-2007	14:31:10;	Bright;	32.0;	49;	1Alp UMi	;	1.99;	6300;occ;	64;	0;	27333	
10;	3937.4;	23-MAY-2007	14:39:21;	Bright;	41.0;	76;	27Gam Cas	;	2.30;	30000;occ;	82;	0;	27333	
11;	4009.6;	23-MAY-2007	14:40:33;	Bright;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	27333	
12;	4532.4;	23-MAY-2007	14:49:16;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	90;	0;	27333	
13;	4798.2;	23-MAY-2007	14:53:41;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	91;	0;	27333	
14;	5326.7;	23-MAY-2007	15:02:30;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	85;	0;	27333	
15;	5849.1;	23-MAY-2007	15:11:12;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27333	
16;	6012.4;	23-MAY-2007	15:13:56;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	110;	0;	27333	
17;	6112.6;	23-MAY-2007	15:15:36;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	89;	0;	27333	
18;	6436.1;	23-MAY-2007	15:20:59;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	84;	0;	27333	
19;	6844.0;	23-MAY-2007	15:27:47;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	85;	0;	27333	
20;	7009.9;	23-MAY-2007	15:30:33;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	107;	0;	27333	
21;	7122.7;	23-MAY-2007	15:32:26;	Dark	;	115;	34Ups Sco	;	2.70;	26000;occ;	52;	0;	27333	
22;	7244.0;	23-MAY-2007	15:34:27;	Dark	;	75;	26Eps Sco	;	2.29;	4250;occ;	98;	0;	27333	
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2;	1524.4;	23-MAY-2007	15:39:44;	Bright;	40.5;	97;	8Bet1Sco	;	2.56;	30000;occ;	81;	0;	27334	
3;	1631.7;	23-MAY-2007	15:41:31;	Bright;	34.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	69;	0;	27334	
4;	1734.2;	23-MAY-2007	15:43:13;	Bright;	36.5;	104;	27Bet Lib	;	2.61;	13100;occ;	73;	0;	27334	
5;	2025.7;	23-MAY-2007	15:48:05;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27334	
6;	2370.7;	23-MAY-2007	15:53:50;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27334	
7;	2560.7;	23-MAY-2007	15:57:00;	Bright;	35.0;	180;	27Gam Boo	;	3.04;	8000;occ;	70;	0;	27334	
8;	3047.9;	23-MAY-2007	16:05:07;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;	27334	
9;	3173.0;	23-MAY-2007	16:07:12;	Bright;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	27334	
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11;	3937.3;	23-MAY-2007	16:19:57;	Bright;	37.0;	76;	27Gam Cas	;	2.30;	30000;occ;	74;	0;	27334	
12;	4009.8;	23-MAY-2007	16:21:09;	Bright;	55.0;	68;	18Alp Cas	;	2.22;	4500;occ;	110;	0;	27334	
13;	4532.4;	23-MAY-2007	16:29:52;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	91;	0;	27334	
14;	4798.6;	23-MAY-2007	16:34:18;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	91;	0;	27334	
15;	5327.0;	23-MAY-2007	16:43:06;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	86;	0;	27334	
16;	5849.7;	23-MAY-2007	16:51:49;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27334	
17;	6013.2;	23-MAY-2007	16:54:32;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	99;	0;	27334	
18;	6113.5;	23-MAY-2007	16:56:13;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	90;	0;	27334	
19;	6436.8;	23-MAY-2007	17:01:36;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	84;	0;	27334	
20;	6844.6;	23-MAY-2007	17:08:24;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	79;	0;	27334	
21;	7010.5;	23-MAY-2007	17:11:10;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	102;	0;	27334	


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3; 1380.4; 23-MAY-2007 17:17:56; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27335
4; 1524.5; 23-MAY-2007 17:20:20; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27335
5; 1640.1; 23-MAY-2007 17:22:15; Bright; 26.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 53; 0;27335
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13; 3937.1; 23-MAY-2007 18:00:32; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;27335
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16; 4799.0; 23-MAY-2007 18:14:54; Dark ; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;27335
17; 5327.4; 23-MAY-2007 18:23:43; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;27335
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20; 6114.3; 23-MAY-2007 18:36:50; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;27335
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22; 6845.0; 23-MAY-2007 18:49:00; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27335
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 3; 1738.1; 26-MAY-2007 15:49:02; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;27377
 4; 1837.4; 26-MAY-2007 15:50:42; Bright; 41.5; 120; 1Del Oph ; 2.73; 3200;occ; 83; 0;27377
 5; 2020.3; 26-MAY-2007 15:53:45; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;27377
 6; 2369.3; 26-MAY-2007 15:59:34; Bright; 34.5; 83; ; 2.38; 11000;occ; 69; 0;27377
 7; 3031.8; 26-MAY-2007 16:10:36; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27377
 8; 3169.9; 26-MAY-2007 16:12:54; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;27377
 9; 3446.8; 26-MAY-2007 16:17:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27377
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 12; 4385.9; 26-MAY-2007 16:33:10; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;27377
 13; 4815.3; 26-MAY-2007 16:40:20; Dark ; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;27377
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 19; 6467.0; 26-MAY-2007 17:07:51; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27377
 20; 6863.3; 26-MAY-2007 17:14:28; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;27377
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 13; 3446.7; 26-MAY-2007 17:58:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27378
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 20; 5874.3; 26-MAY-2007 18:38:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27378
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6; 434.5; 27-MAY-2007 01:30:55; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27383
7; 829.3; 27-MAY-2007 01:37:29; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27383
8; 999.6; 27-MAY-2007 01:40:20; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;27383
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13; 1738.6; 27-MAY-2007 01:52:39; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;27383
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19; 2559.6; 27-MAY-2007 05:27:32; Bright; 44.0; 180; 27Gam Boo ; 3.04; 8000;occ; 88; 0;27385
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 23; 5363.1; 28-MAY-2007 22:28:38; Dark ; 27.0; 52; 16Bet Cet ; 2.04; 4500;occ; 54; 0;27409

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6; 1834.4; 31-MAY-2007 16:33:46; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27449
7; 2015.4; 31-MAY-2007 16:36:47; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27449
8; 2370.7; 31-MAY-2007 16:42:42; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27449
9; 3008.2; 31-MAY-2007 16:53:20; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27449
10; 3166.4; 31-MAY-2007 16:55:58; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27449
11; 3446.9; 31-MAY-2007 17:00:39; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27449
12; 3930.6; 31-MAY-2007 17:08:42; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27449
13; 4393.4; 31-MAY-2007 17:16:25; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27449
14; 5385.8; 31-MAY-2007 17:32:57; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;27449
15; 5646.7; 31-MAY-2007 17:37:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27449
16; 5788.4; 31-MAY-2007 17:39:40; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;27449
17; 6104.5; 31-MAY-2007 17:44:56; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;27449
18; 6216.1; 31-MAY-2007 17:46:48; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27449
19; 6517.2; 31-MAY-2007 17:51:49; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27449
20; 6892.2; 31-MAY-2007 17:58:04; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27449
21; 6966.8; 31-MAY-2007 17:59:18; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27449
22; 7067.9; 31-MAY-2007 18:00:59; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;27449
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4; 1370.5; 31-MAY-2007 18:06:38; Dark ; 41.5; 136; 23Tau Sco ; 2.82; 30000;occ; 83; 0;27450
5; 1542.6; 31-MAY-2007 18:09:30; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27450
6; 1702.4; 31-MAY-2007 18:12:10; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27450

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8;	2015.3;	31-MAY-2007	18:17:23;	Bright;	36.5;	102;	24Alp Ser	;	2.60;	4250;occ;	73;	0;27450	
9;	2370.5;	31-MAY-2007	18:23:18;	Bright;	37.0;	67;	5Alp CrB	;	2.22;	11000;occ;	74;	0;27450	
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18;	6105.3;	31-MAY-2007	19:25:33;	Dark	;	51.5;	63;	Bet Gru	;	2.15;	2800;occ;	103;	0;27450
19;	6216.9;	31-MAY-2007	19:27:25;	Dark	;	44.5;	31;	Alp Gru	;	1.73;	15200;occ;	89;	0;27450
20;	6517.8;	31-MAY-2007	19:32:25;	Dark	;	41.5;	45;	Alp Pav	;	1.94;	26000;occ;	83;	0;27450
21;	6892.5;	31-MAY-2007	19:38:40;	Dark	;	38.5;	141;	Bet Ara	;	2.84;	4600;occ;	77;	0;27450
22;	6967.1;	31-MAY-2007	19:39:55;	Dark	;	38.5;	147;	Alp Ara	;	2.88;	26000;occ;	77;	0;27450