

GOMOS Daily Report 07-DEC-2007

Level 0 and Level 1 products

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

Item	Value
Time of report generation	10DEC2007 09:21:51
Data source version	GOMOS/5.00
Start time of products	07-12-2007 (07DEC2007 00:00:00)
Stop time of products	08-12-2007 (08DEC2007 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)

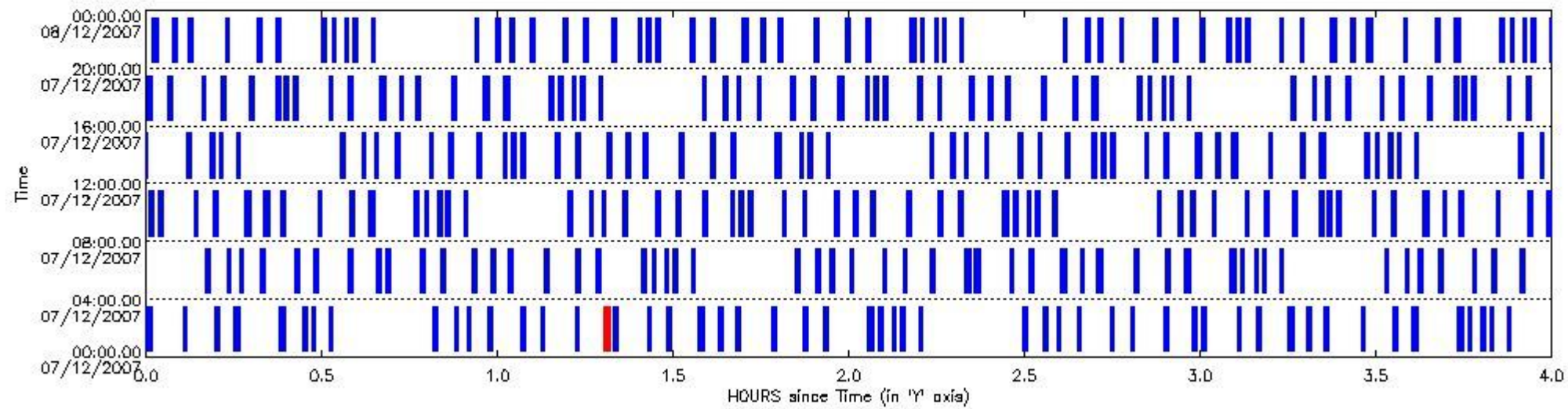
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

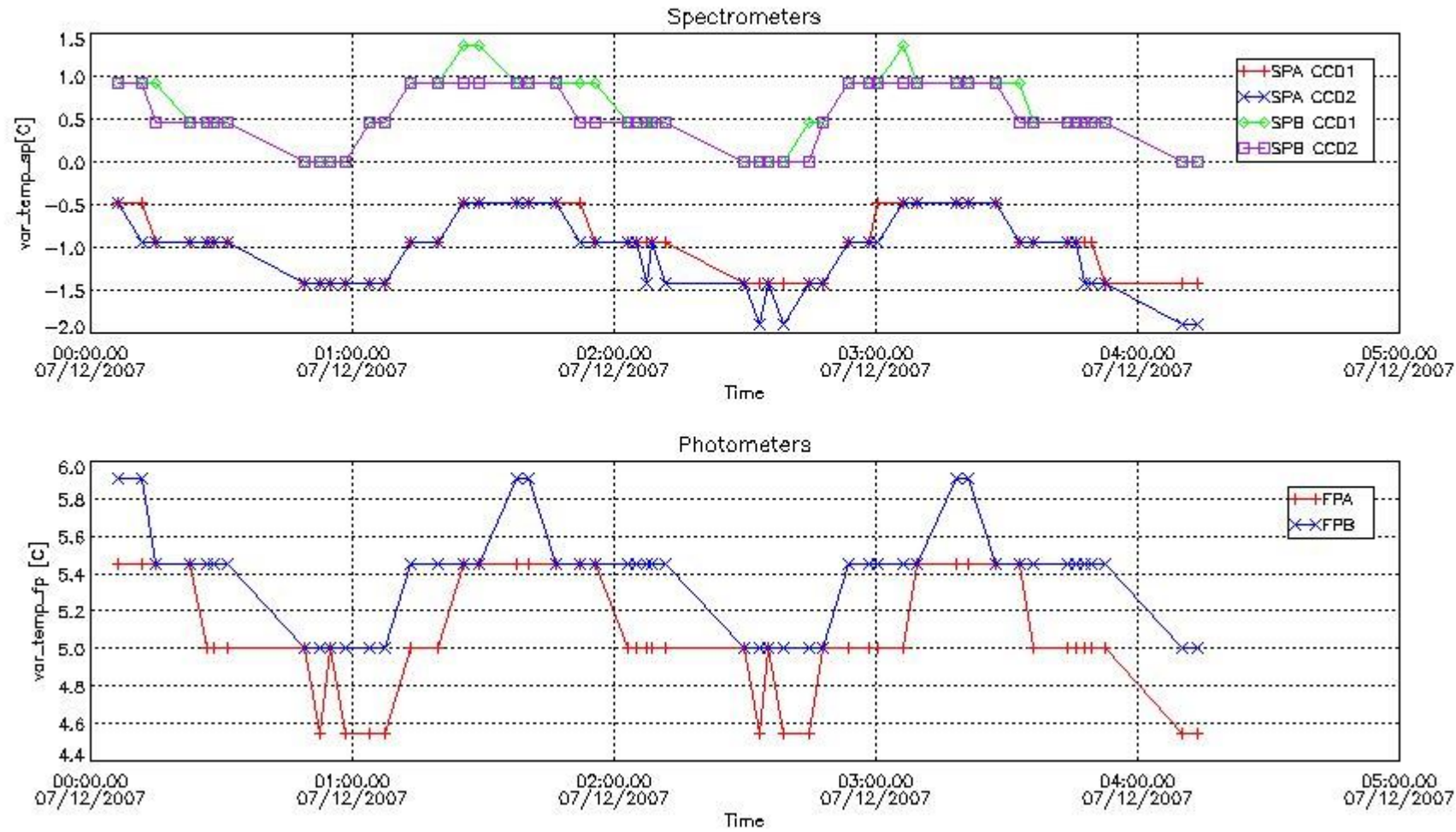
UTC start time	Star name	Star ID	Orbit
07-DEC-2007 01:18:00	4GamCrv	100	30159

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_1PNPDE20071207_000612_000000442064_00045_30159_5816.N1	07-DEC-2007 00:06:12	Dark	43.500	108	Alp Col	2.6520	15200.	87	30159	No
2	GOM_TRA_1PNPDE20071207_001136_000000482064_00045_30159_5817.N1	07-DEC-2007 00:11:36	Straylight	48.000	101	11Alp Lep	2.5820	7000.0	96	30159	No
3	GOM_TRA_1PNPDE20071207_001458_000000552064_00045_30159_5818.N1	07-DEC-2007 00:14:58	Straylight	54.500	7	19Bet Ori	0.10000	14000.	109	30159	No
4	GOM_TRA_1PNPDE20071207_002239_000000582064_00045_30159_5819.N1	07-DEC-2007 00:22:39	Bright	57.500	13	87Alp Tau	0.86700	3800.0	115	30159	No
5	GOM_TRA_1PNPDE20071207_002646_000000372064_00045_30159_5820.N1	07-DEC-2007 00:26:46	Bright	36.500	150	44Zet Per	2.8900	28000.	73	30159	No
6	GOM_TRA_1PNPDE20071207_002813_000000452064_00045_30159_5821.N1	07-DEC-2007 00:28:13	Bright	44.500	114	3Iot Aur	2.6930	4600.0	89	30159	No
7	GOM_TRA_1PNPDE20071207_003115_000000352064_00045_30159_5822.N1	07-DEC-2007 00:31:15	Bright	34.500	175	39Del Per	3.0100	19400.	69	30159	No
8	GOM_TRA_1PNPDE20071207_004901_000000472064_00045_30159_5823.N1	07-DEC-2007 00:49:01	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	30159	No
9	GOM_TRA_1PNPDE20071207_005235_000000402064_00045_30159_5824.N1	07-DEC-2007 00:52:35	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	30159	No
10	GOM_TRA_1PNPDE20071207_005450_000000382064_00045_30159_5825.N1	07-DEC-2007 00:54:50	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	30159	No

11	GOM_TRA_1PNPDE20071207_005821_000000392064_00045_30159_5826.N1	07-DEC-2007 00:58:21	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	30159	No
12	GOM_TRA_1PNPDE20071207_010402_000000352064_00045_30159_5827.N1	07-DEC-2007 01:04:02	Bright	35.000	111	8Eta Boo	2.6800	6000.0	70	30159	No
13	GOM_TRA_1PNPDE20071207_010722_000000422064_00045_30159_5828.N1	07-DEC-2007 01:07:22	Bright	41.500	138	47Eps Vir	2.8280	4700.0	83	30159	No
14	GOM_TRA_1PNPDE20071207_011313_000000432064_00045_30159_5829.N1	07-DEC-2007 01:13:13	Bright	42.500	15	67Alp Vir	0.97600	28000.	85	30159	No
15	GOM_TRA_1PNPDE20071207_011936_000000522064_00045_30159_5960.N1	07-DEC-2007 01:19:36	Dark	51.500	171	2Eps Crv	3.0010	4250.0	103	30159	No
16	GOM_TRA_1PNPDE20071207_012537_000000392064_00045_30159_5961.N1	07-DEC-2007 01:25:37	Dark	39.000	99	Del Cen	2.5750	26000.	78	30159	No
17	GOM_TRA_1PNPDE20071207_012857_000000462064_00046_30160_5962.N1	07-DEC-2007 01:28:57	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	30160	No
18	GOM_TRA_1PNPDE20071207_013738_000000472064_00046_30160_5963.N1	07-DEC-2007 01:37:38	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	30160	No
19	GOM_TRA_1PNPDE20071207_014032_000000572064_00046_30160_5964.N1	07-DEC-2007 01:40:32	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	30160	No
20	GOM_TRA_1PNPDE20071207_014648_000000452064_00046_30160_5965.N1	07-DEC-2007 01:46:48	Dark	44.500	108	Alp Col	2.6520	15200.	89	30160	No
21	GOM_TRA_1PNPDE20071207_015212_000000502064_00046_30160_5966.N1	07-DEC-2007 01:52:12	Straylight	49.500	101	11Alp Lep	2.5820	7000.0	99	30160	No
22	GOM_TRA_1PNPDE20071207_015534_000000542064_00046_30160_5967.N1	07-DEC-2007 01:55:34	Straylight	54.000	7	19Bet Ori	0.10000	14000.	108	30160	No
23	GOM_TRA_1PNPDE20071207_020315_000000542064_00046_30160_5968.N1	07-DEC-2007 02:03:15	Bright	53.500	13	87Alp Tau	0.86700	3800.0	107	30160	No
24	GOM_TRA_1PNPDE20071207_020505_000000362064_00046_30160_5969.N1	07-DEC-2007 02:05:05	Bright	36.000	146	25Eta Tau	2.8730	15200.	72	30160	No
25	GOM_TRA_1PNPDE20071207_020722_000000372064_00046_30160_5970.N1	07-DEC-2007 02:07:22	Bright	37.000	150	44Zet Per	2.8900	28000.	74	30160	No
26	GOM_TRA_1PNPDE20071207_020848_000000452064_00046_30160_5971.N1	07-DEC-2007 02:08:48	Bright	45.000	114	3lot Aur	2.6930	4600.0	90	30160	No
27	GOM_TRA_1PNPDE20071207_021151_000000362064_00046_30160_5972.N1	07-DEC-2007 02:11:51	Bright	36.000	175	39Del Per	3.0100	19400.	72	30160	No
28	GOM_TRA_1PNPDE20071207_022936_000000442064_00046_30160_6162.N1	07-DEC-2007 02:29:36	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	30160	No
29	GOM_TRA_1PNPDE20071207_023311_000000422064_00046_30160_6163.N1	07-DEC-2007 02:33:11	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	30160	No
30	GOM_TRA_1PNPDE20071207_023526_000000382064_00046_30160_6164.N1	07-DEC-2007 02:35:26	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	30160	No
31	GOM_TRA_1PNPDE20071207_023857_000000392064_00046_30160_6165.N1	07-DEC-2007 02:38:57	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	30160	No
32	GOM_TRA_1PNPDE20071207_024438_000000362064_00046_30160_6166.N1	07-DEC-2007 02:44:38	Bright	35.500	111	8Eta Boo	2.6800	6000.0	71	30160	No
33	GOM_TRA_1PNPDE20071207_024759_000000422064_00046_30160_6167.N1	07-DEC-2007 02:47:59	Bright	42.000	138	47Eps Vir	2.8280	4700.0	84	30160	No
34	GOM_TRA_1PNPDE20071207_025349_000000462064_00046_30160_6168.N1	07-DEC-2007 02:53:49	Bright	46.000	15	67Alp Vir	0.97600	28000.	92	30160	No
35	GOM_TRA_1PNPDE20071207_025836_000000512064_00046_30160_6169.N1	07-DEC-2007 02:58:36	Dark	50.500	100	4Gam Crv	2.5800	13100.	101	30160	No
36	GOM_TRA_1PNPDE20071207_030013_000000482064_00046_30160_6170.N1	07-DEC-2007 03:00:13	Dark	48.000	171	2Eps Crv	3.0010	4250.0	96	30160	No
37	GOM_TRA_1PNPDE20071207_030614_000000392064_00046_30160_6171.N1	07-DEC-2007 03:06:14	Dark	39.000	99	Del Cen	2.5750	26000.	78	30160	No
38	GOM_TRA_1PNPDE20071207_030934_000000462064_00047_30161_6172.N1	07-DEC-2007 03:09:34	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	30161	No
39	GOM_TRA_1PNPDE20071207_031815_000000472064_00047_30161_6173.N1	07-DEC-2007 03:18:15	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	30161	No
40	GOM_TRA_1PNPDE20071207_032108_000000482064_00047_30161_6174.N1	07-DEC-2007 03:21:08	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	30161	No
41	GOM_TRA_1PNPDE20071207_032725_000000442064_00047_30161_6175.N1	07-DEC-2007 03:27:25	Dark	43.500	108	Alp Col	2.6520	15200.	87	30161	No
42	GOM_TRA_1PNPDE20071207_033248_000000502064_00047_30161_6176.N1	07-DEC-2007 03:32:48	Straylight	50.000	101	11Alp Lep	2.5820	7000.0	100	30161	No
43	GOM_TRA_1PNPDE20071207_033610_000000562064_00047_30161_6177.N1	07-DEC-2007 03:36:10	Straylight	55.500	7	19Bet Ori	0.10000	14000.	111	30161	No
44	GOM_TRA_1PNPDE20071207_034350_000000582064_00047_30161_6178.N1	07-DEC-2007 03:43:50	Bright	58.000	13	87Alp Tau	0.86700	3800.0	116	30161	No
45	GOM_TRA_1PNPDE20071207_034541_000000362064_00047_30161_6179.N1	07-DEC-2007 03:45:41	Bright	36.000	146	25Eta Tau	2.8730	15200.	72	30161	No
46	GOM_TRA_1PNPDE20071207_034758_000000372064_00047_30161_6180.N1	07-DEC-2007 03:47:58	Bright	37.000	150	44Zet Per	2.8900	28000.	74	30161	No
47	GOM_TRA_1PNPDE20071207_034924_000000432064_00047_30161_6181.N1	07-DEC-2007 03:49:24	Bright	43.000	114	3lot Aur	2.6930	4600.0	86	30161	No
48	GOM_TRA_1PNPDE20071207_035226_000000352064_00047_30161_6182.N1	07-DEC-2007 03:52:26	Bright	34.500	175	39Del Per	3.0100	19400.	69	30161	No
49	GOM_TRA_1PNPDE20071207_041012_000000472064_00047_30161_6365.N1	07-DEC-2007 04:10:12	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	30161	No
50	GOM_TRA_1PNPDE20071207_041347_000000382064_00047_30161_6366.N1	07-DEC-2007 04:13:47	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	30161	No

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



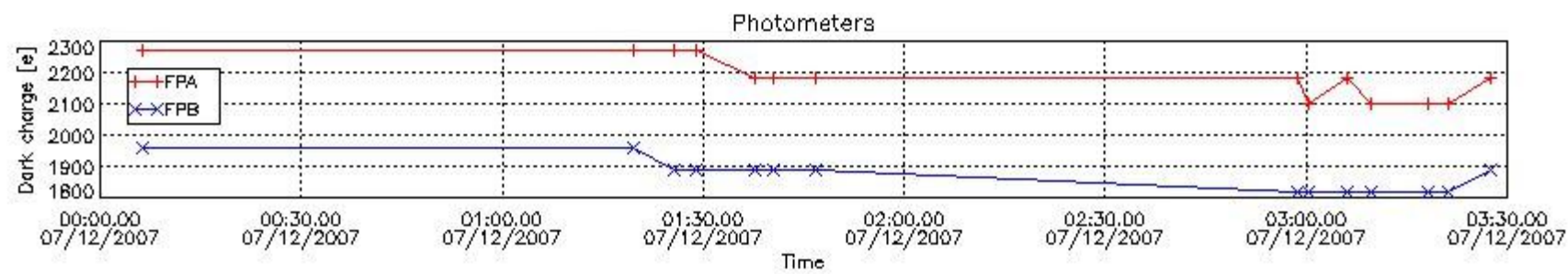
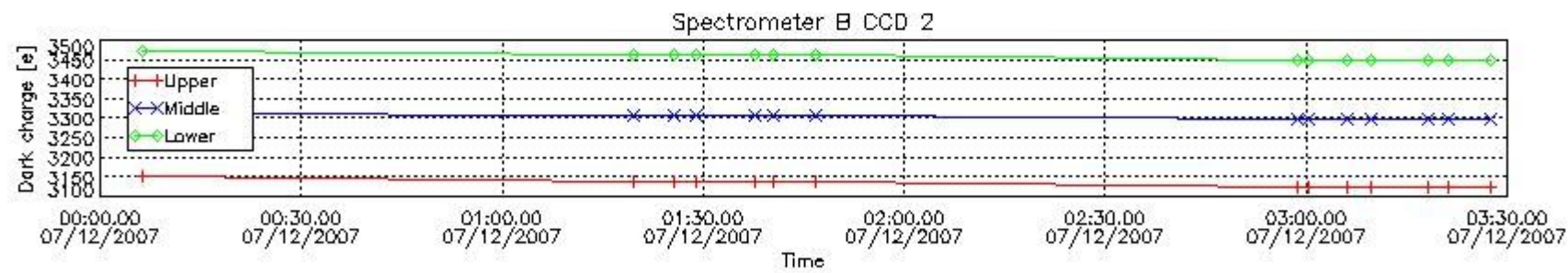
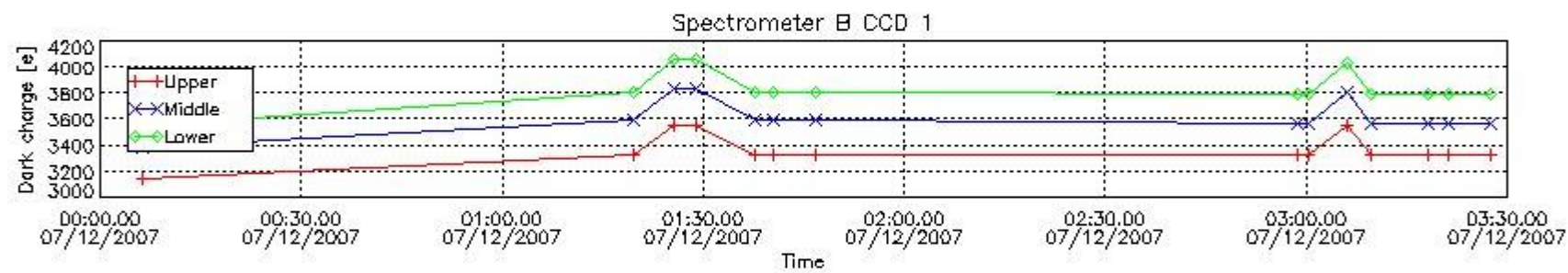
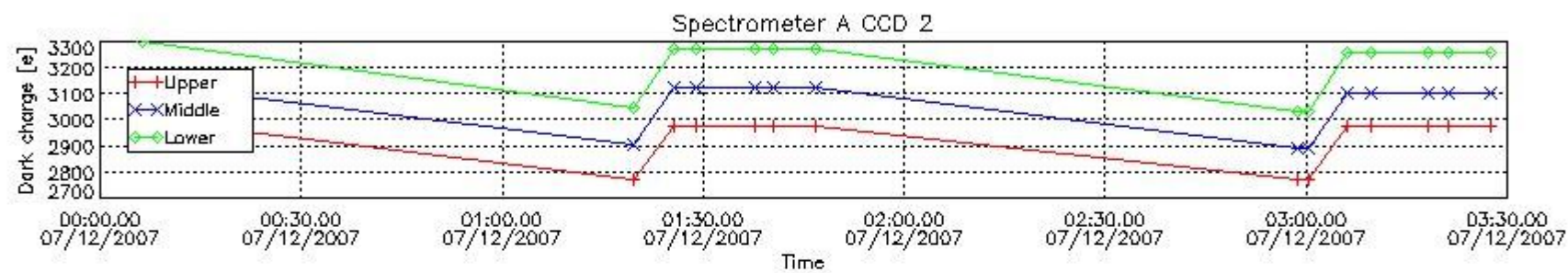
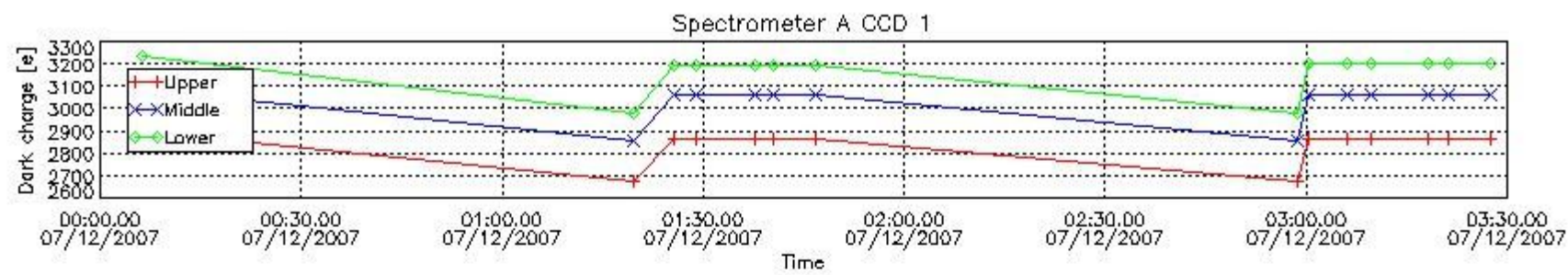
4. Overview of dark signal processing per product

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



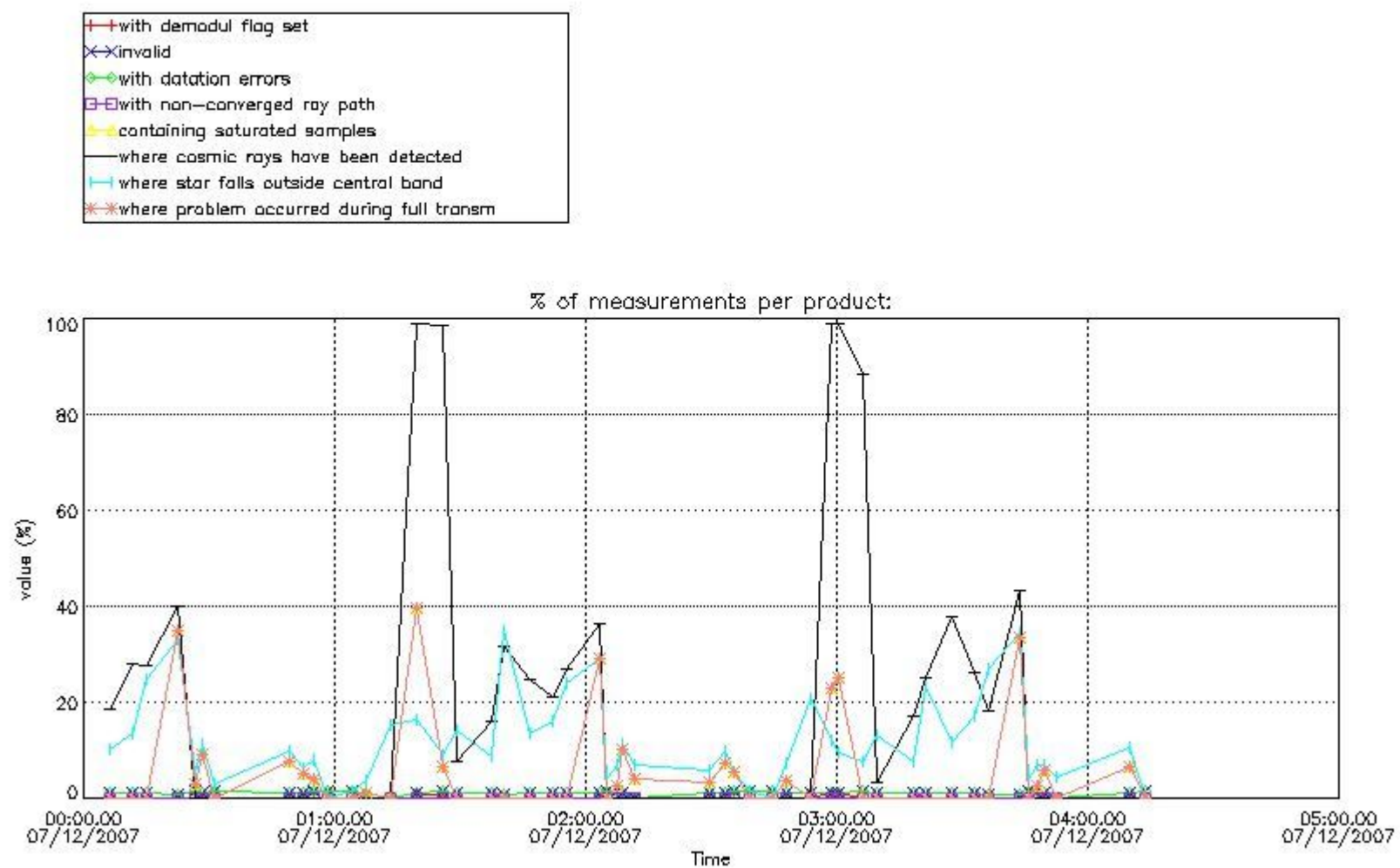
5. Demodulation flag and quality information monitoring

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.

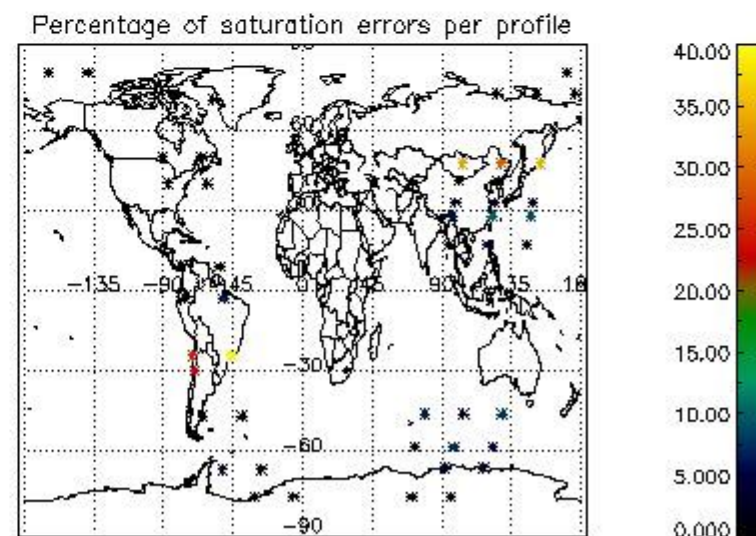
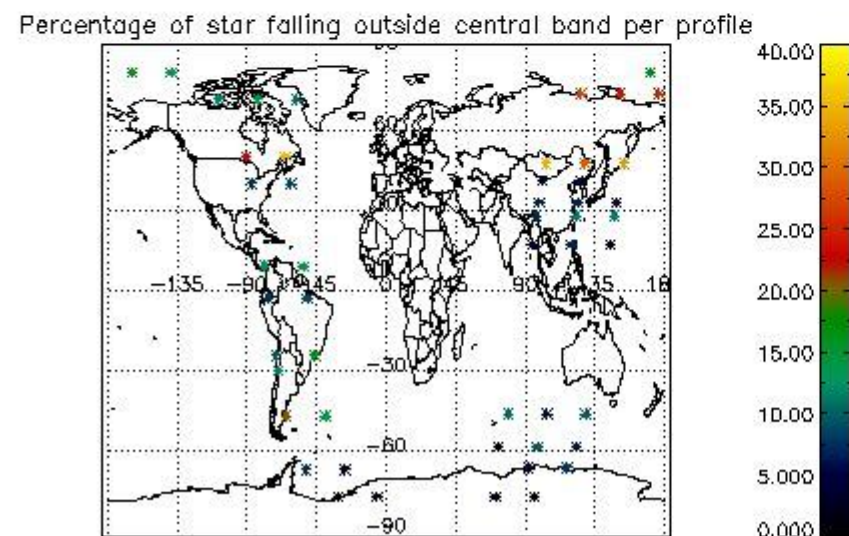
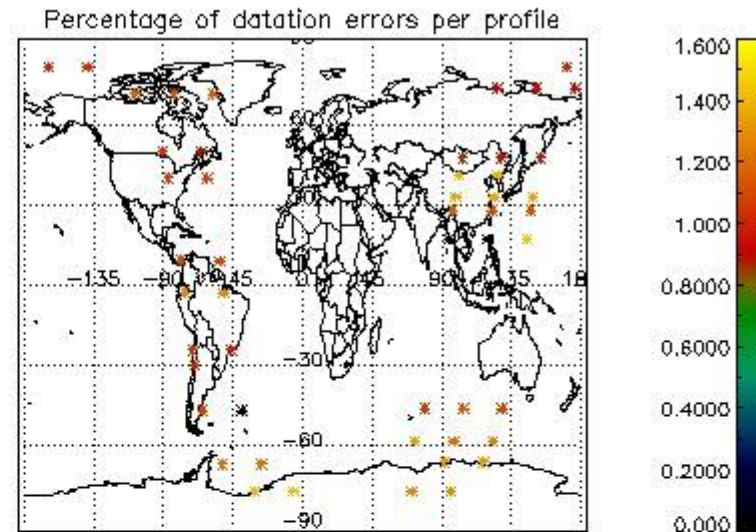
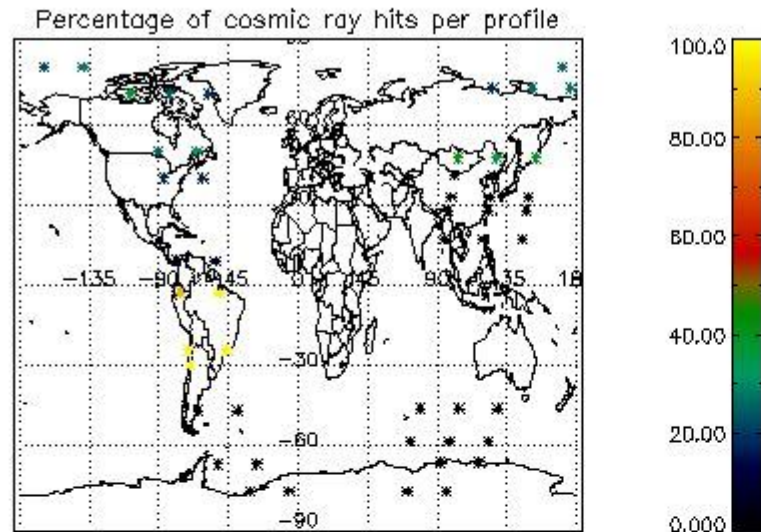
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
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)



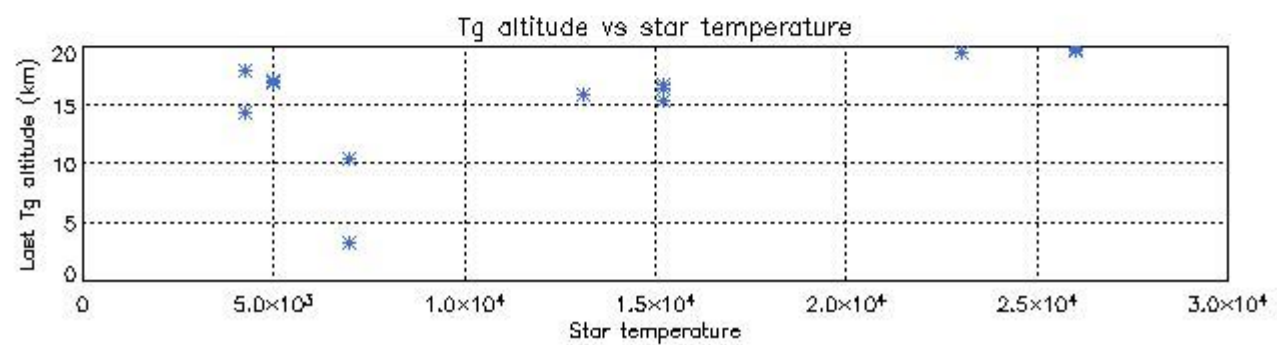
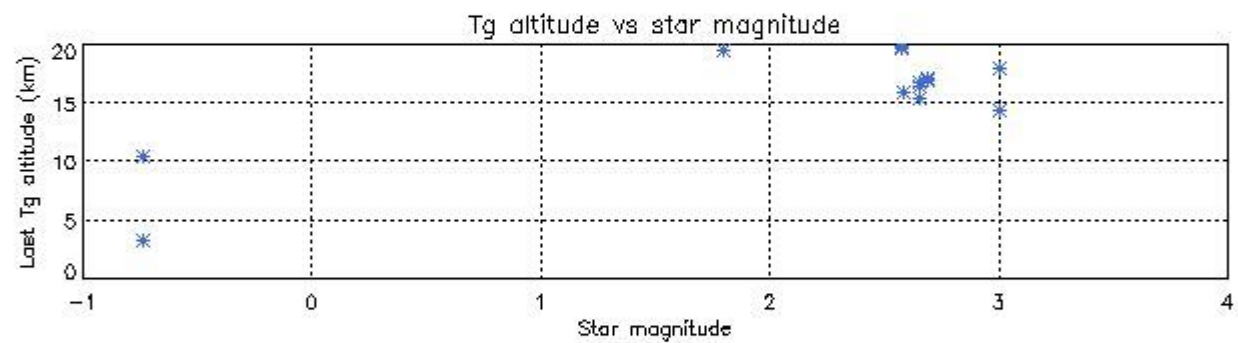
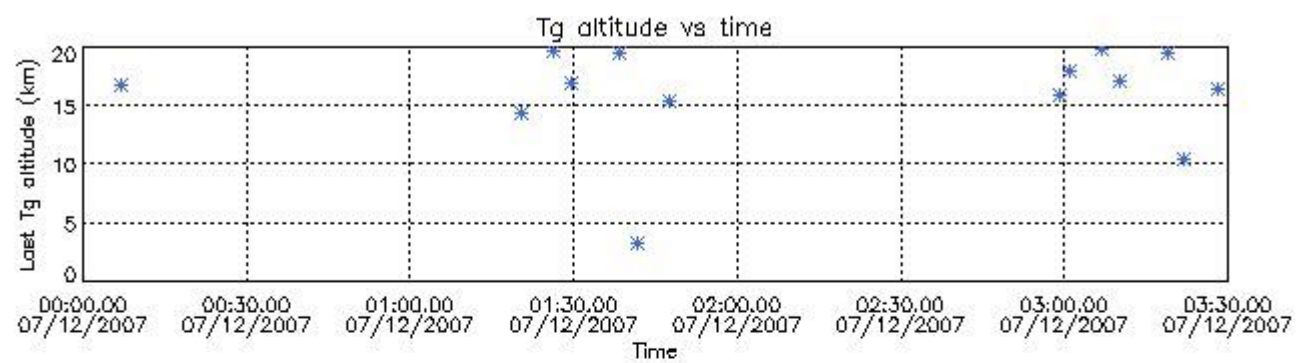
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.938	19.529	NaN
St. deviation:	4.4111	5.8644	NaN
Maximum:	19.750	26.579	NaN
Minimum:	3.3183	4.3475	NaN
Number of data:	14.000	30.000	NaN

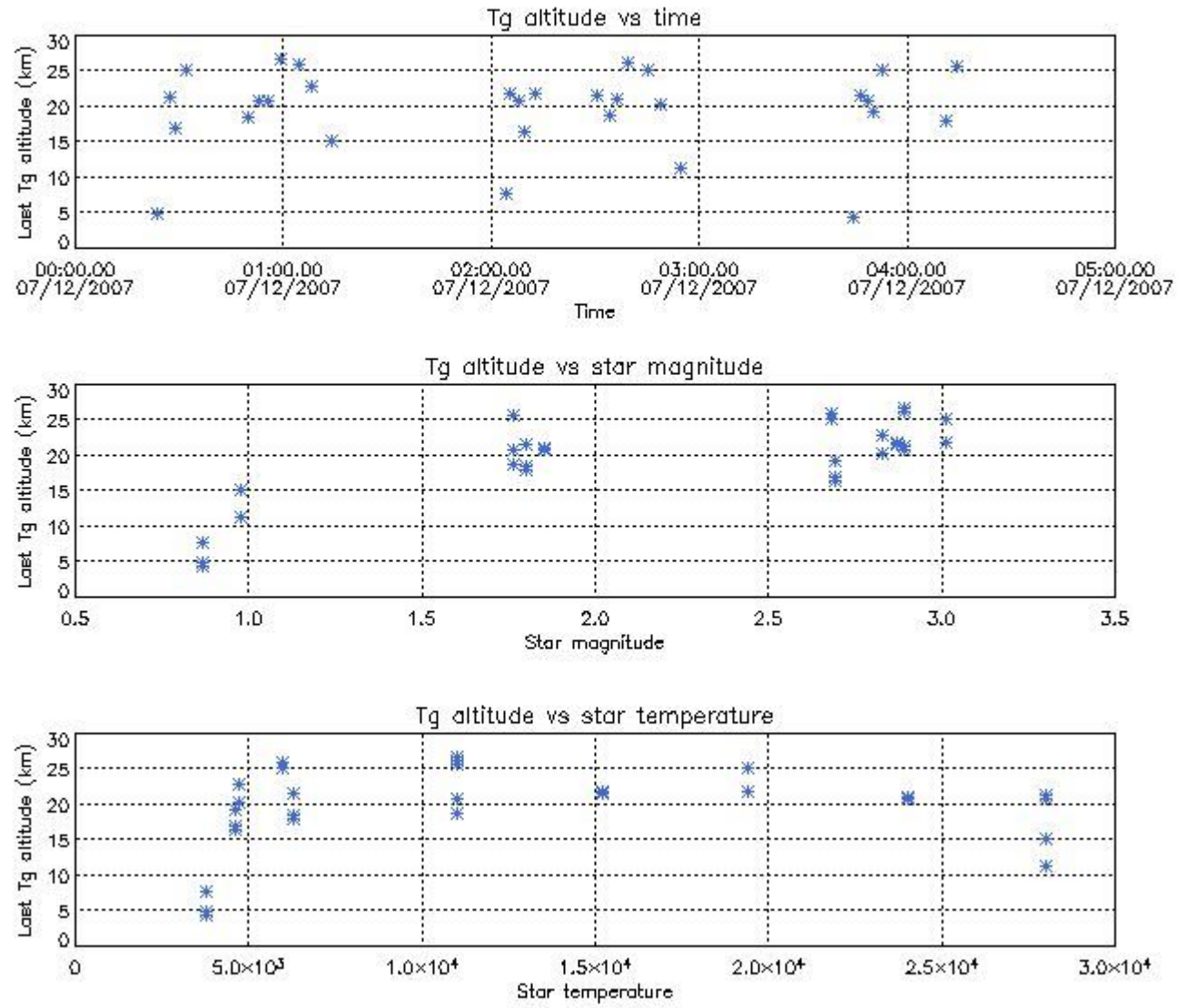
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

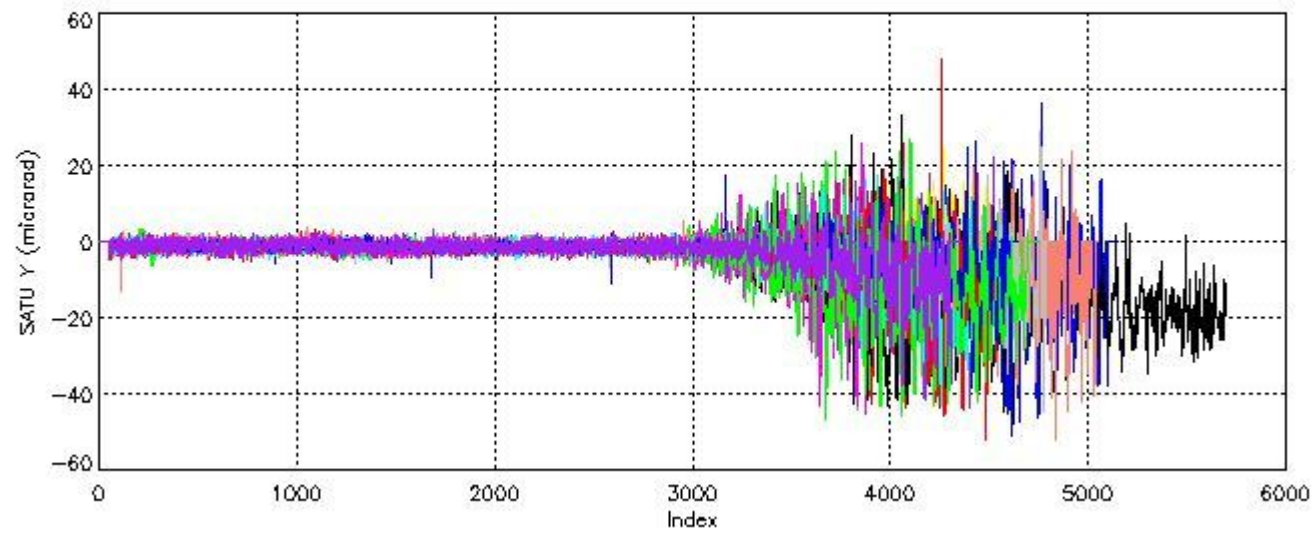
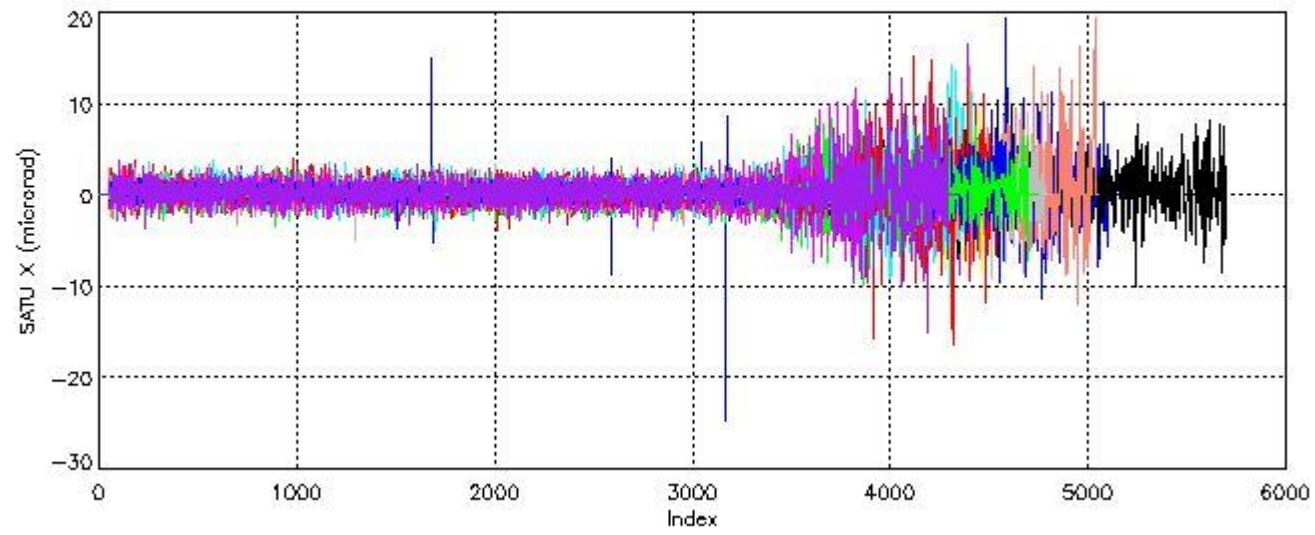


7. Star Acquisition and Tracking Unit (SATU)

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:	0.24259	-1.1748	0.20176	-1.2312
St. deviation:	0.64949	0.89492	0.83387	1.0844
Maximum:	3.8000	3.5000	6.3000	5.5000
Minimum:	-3.7000	-13.000	-6.1000	-8.2000

Number of data:	14100.	14100.	27600.	27600.
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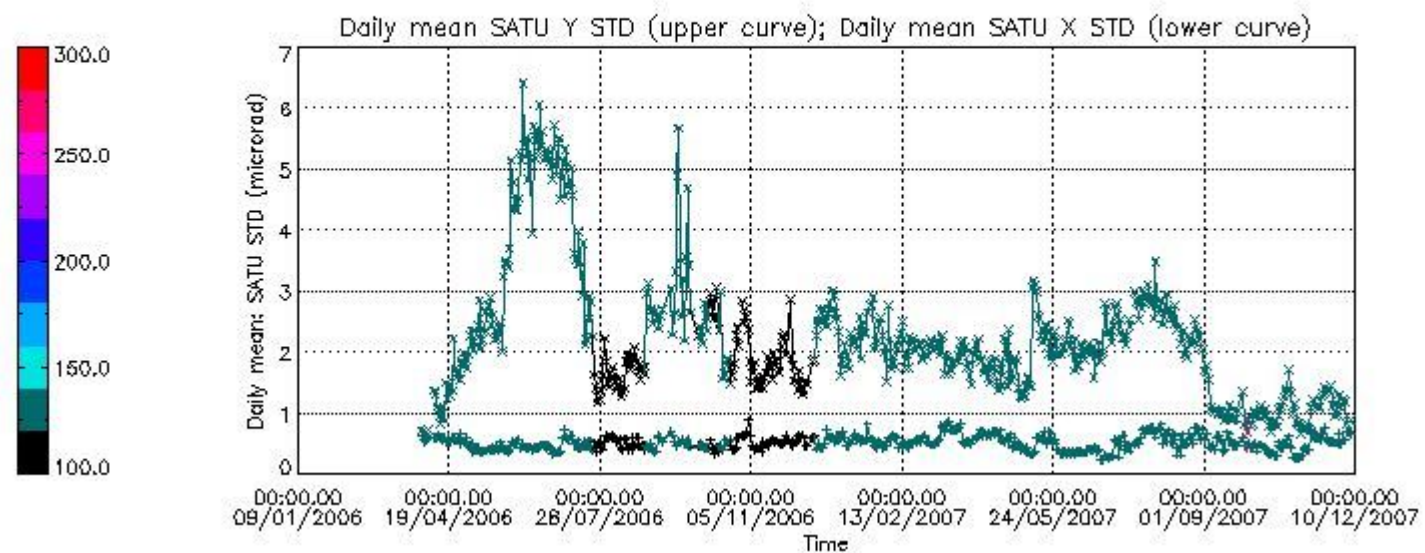
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

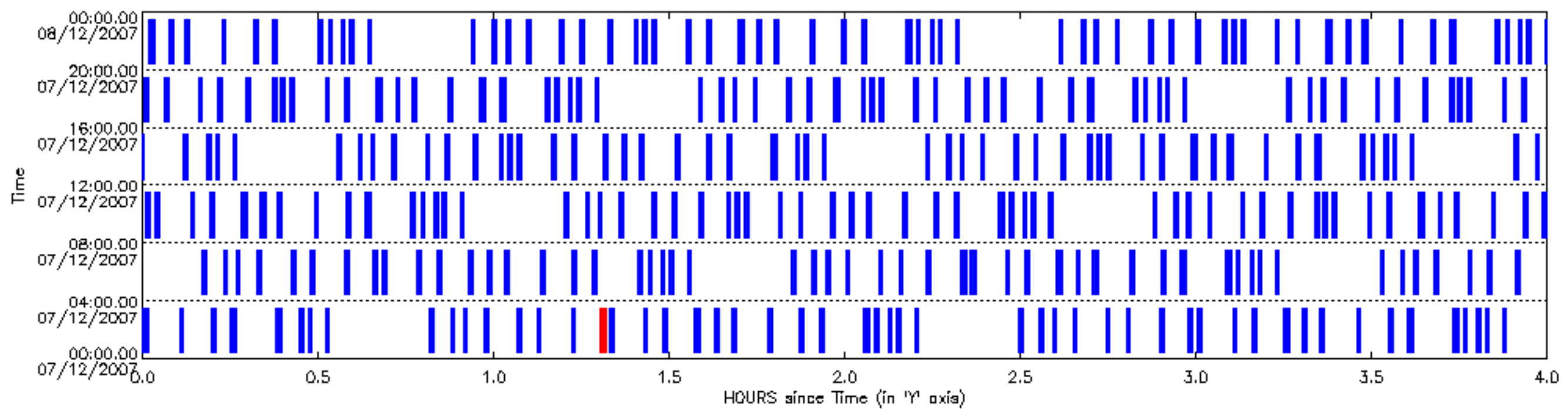
Lower curve: STD of SATU X axis

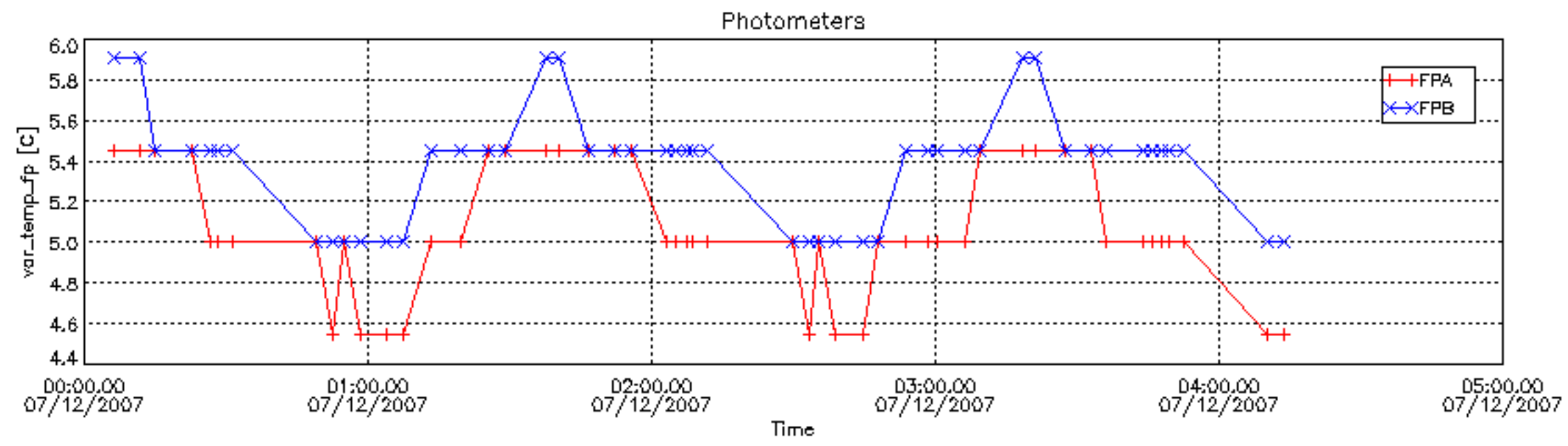
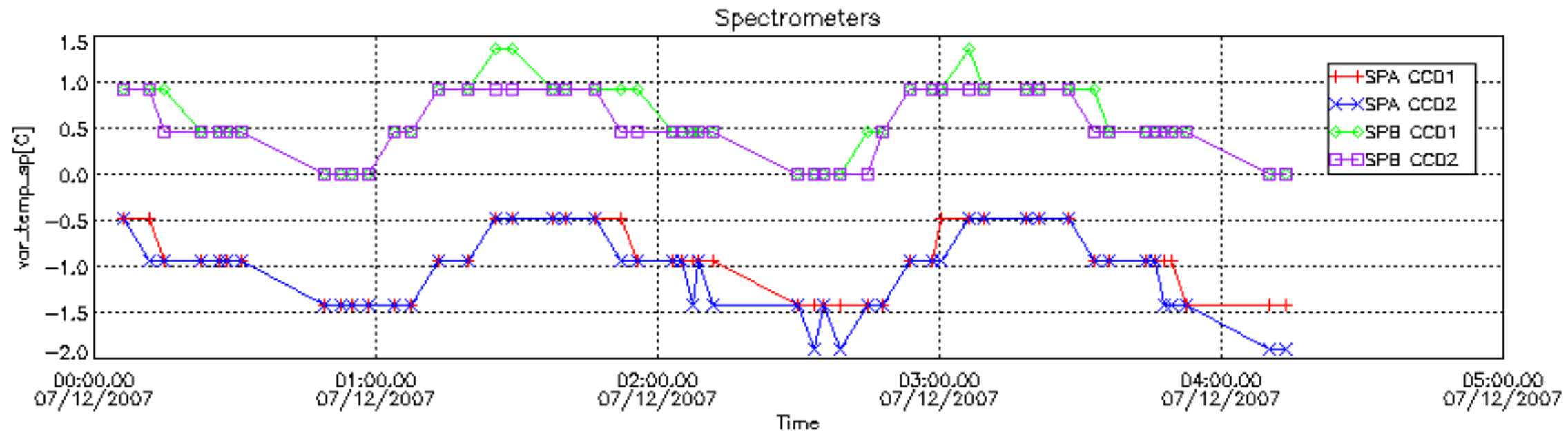


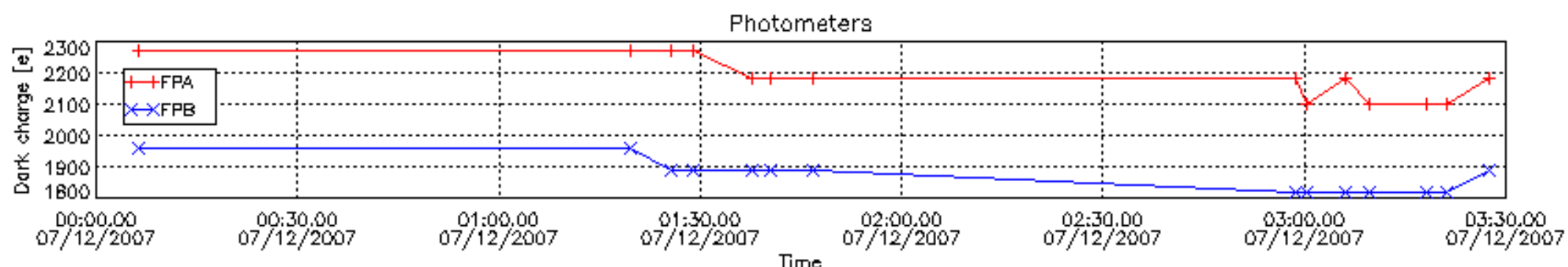
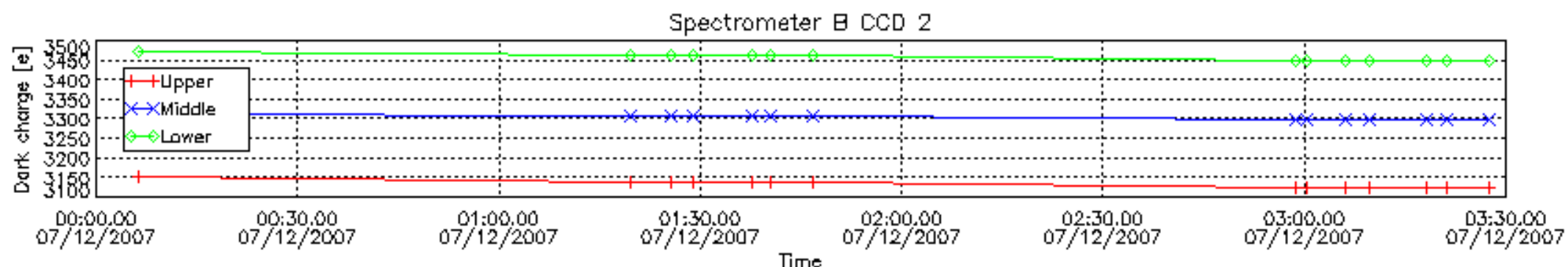
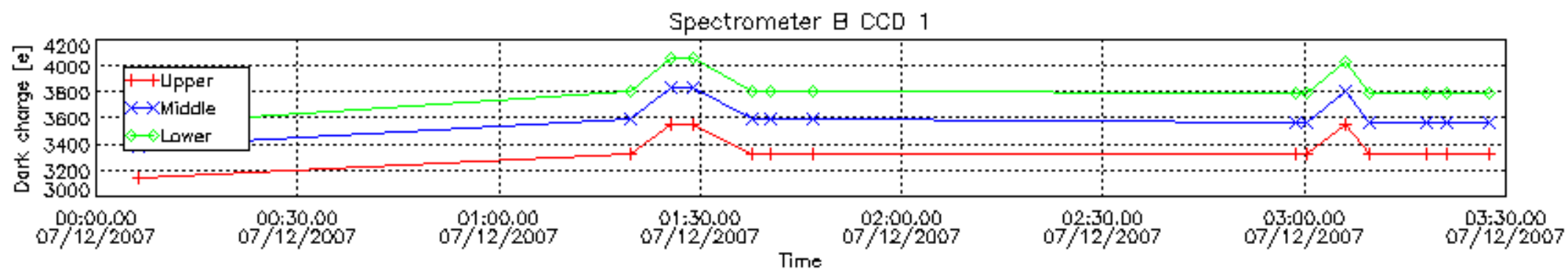
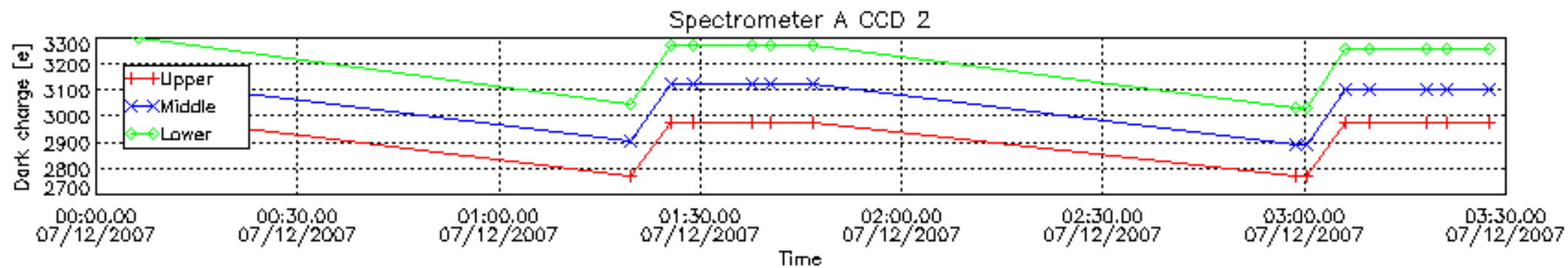
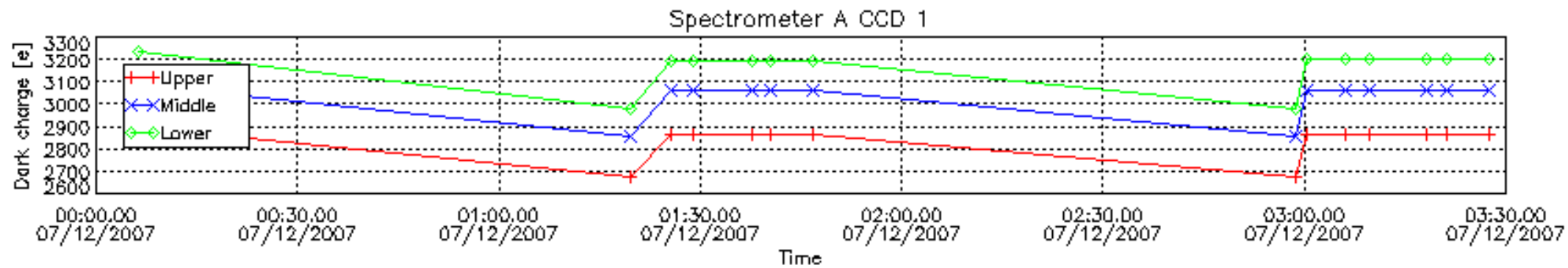
8. Auxiliary Data Files used for the production reported in section 2.4

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.

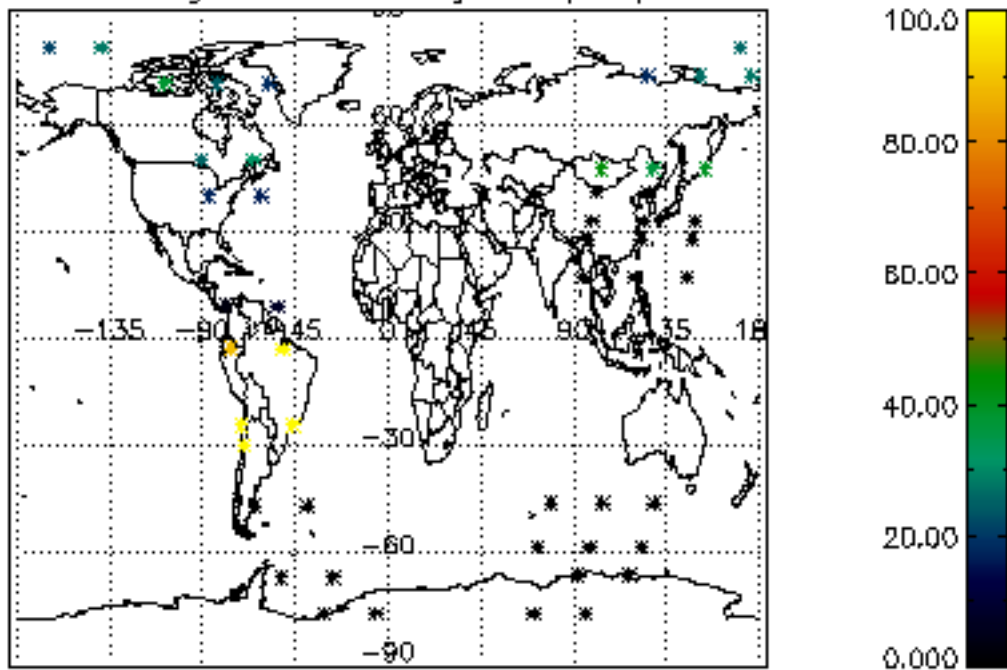
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-DEC-2007 00:06:12
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071130_110642_20071128_000000_20100101_000000	1	07-DEC-2007 00:06:12
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-DEC-2007 00:06:12
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-DEC-2007 00:06:12
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-DEC-2007 00:06:12
ECMWF_FILE	AUX_ECF_AXNECM20071206_080110_20071206_210000_20071207_090000	1	07-DEC-2007 00:06:12
ECMWF_FILE	AUX_ECF_AXNECM20071206_180111_20071207_030000_20071207_150000	49	07-DEC-2007 04:10:12
OPTIONAL_ECMWF_FILE	MISSING	1	07-DEC-2007 00:06:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071206_214917_000057382064_00043_30157_4700.N1	1	07-DEC-2007 00:06:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071206_233014_000057382064_00044_30158_4701.N1	15	07-DEC-2007 01:19:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071207_011112_000041442064_00045_30159_4702.N1	28	07-DEC-2007 02:29:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071207_022535_000057382064_00046_30160_4703.N1	49	07-DEC-2007 04:10:12



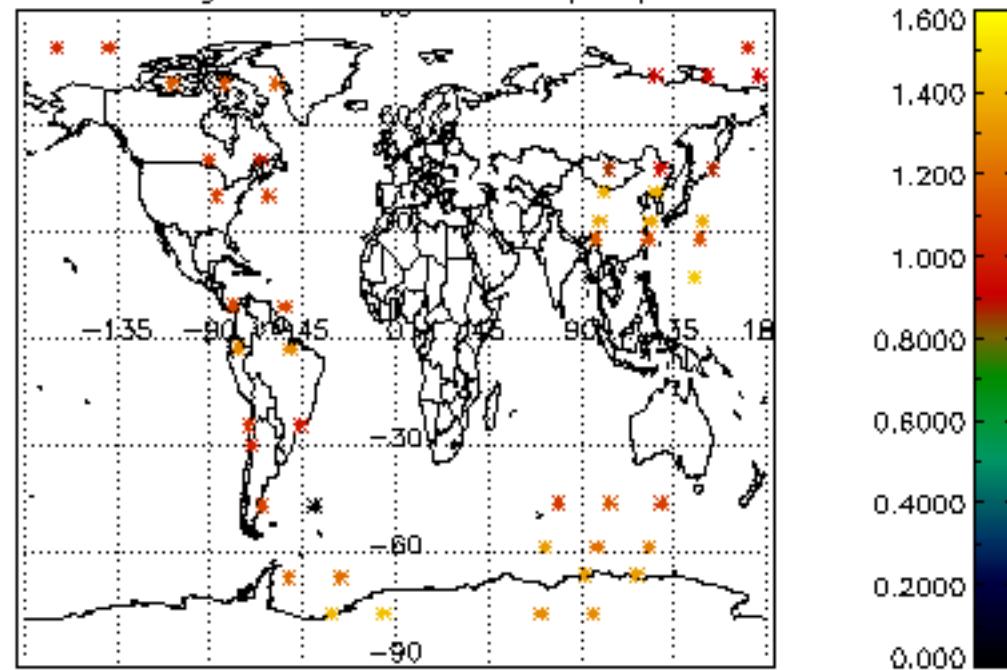




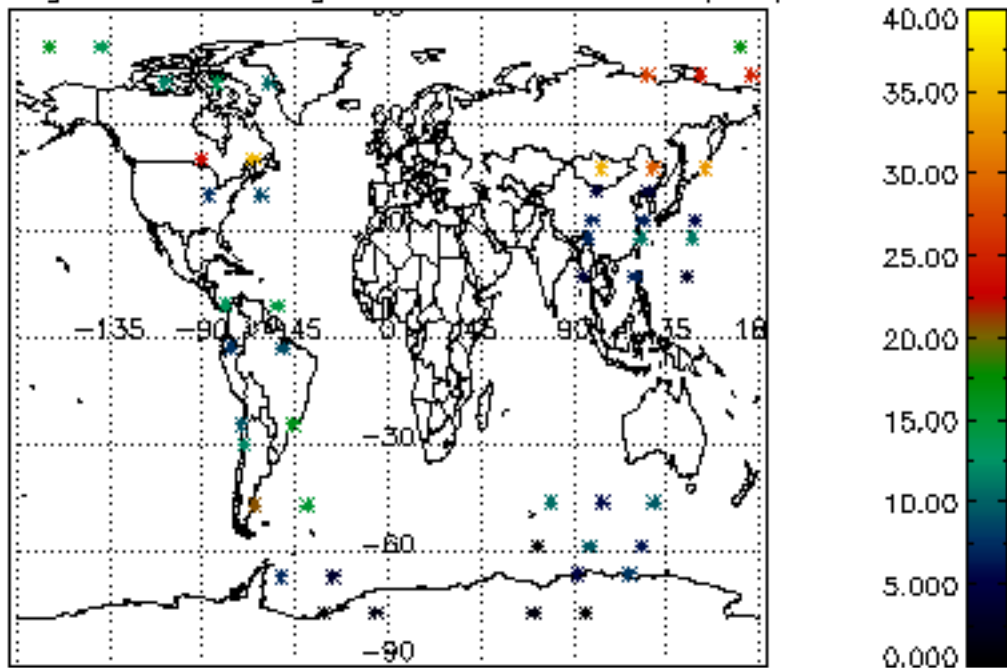
Percentage of cosmic ray hits per profile



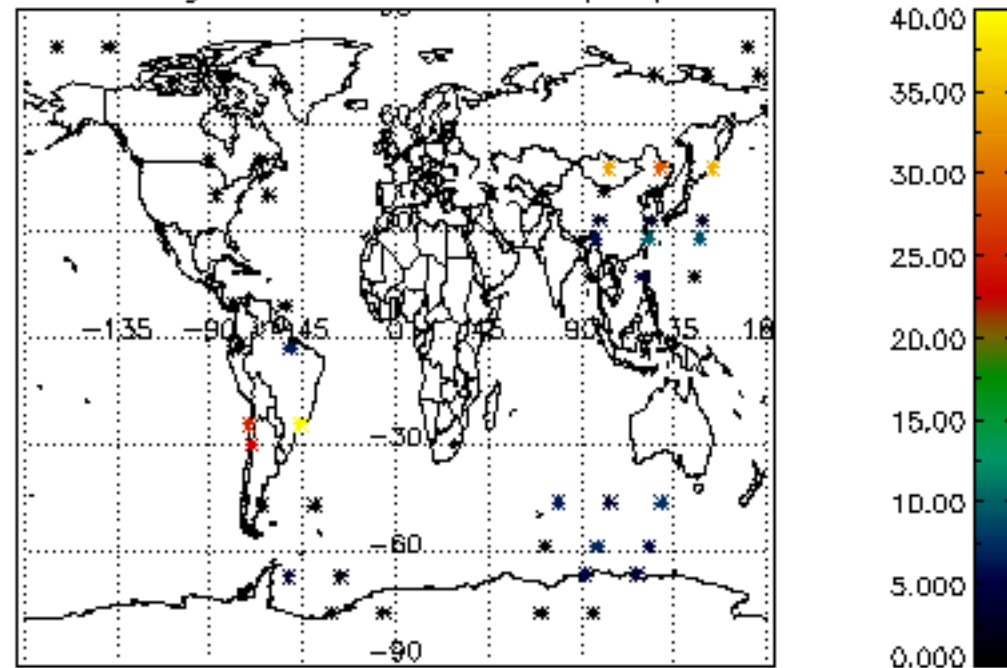
Percentage of datation errors per profile



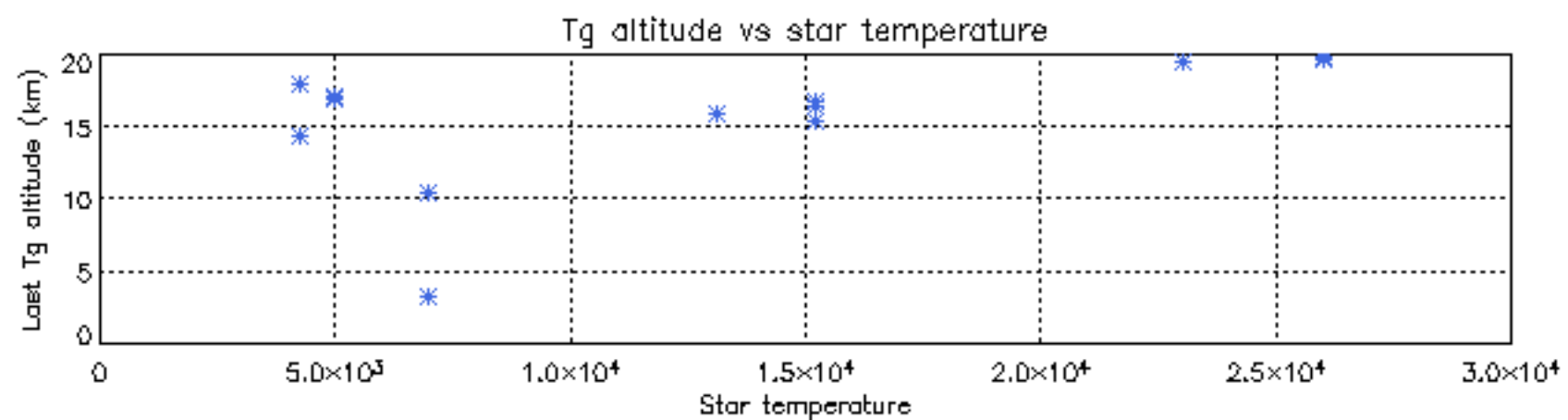
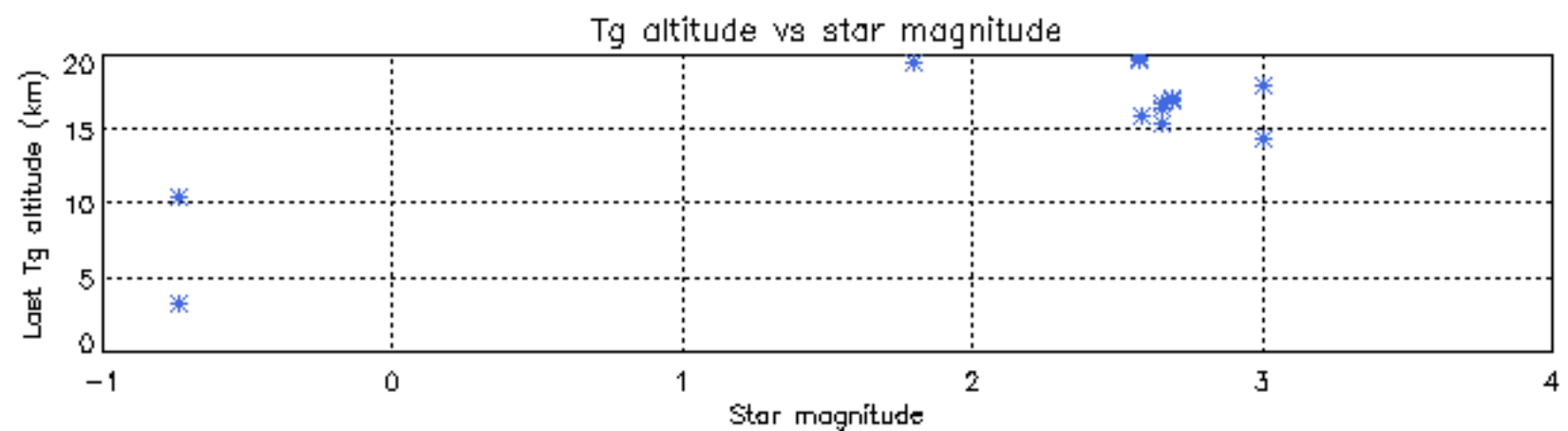
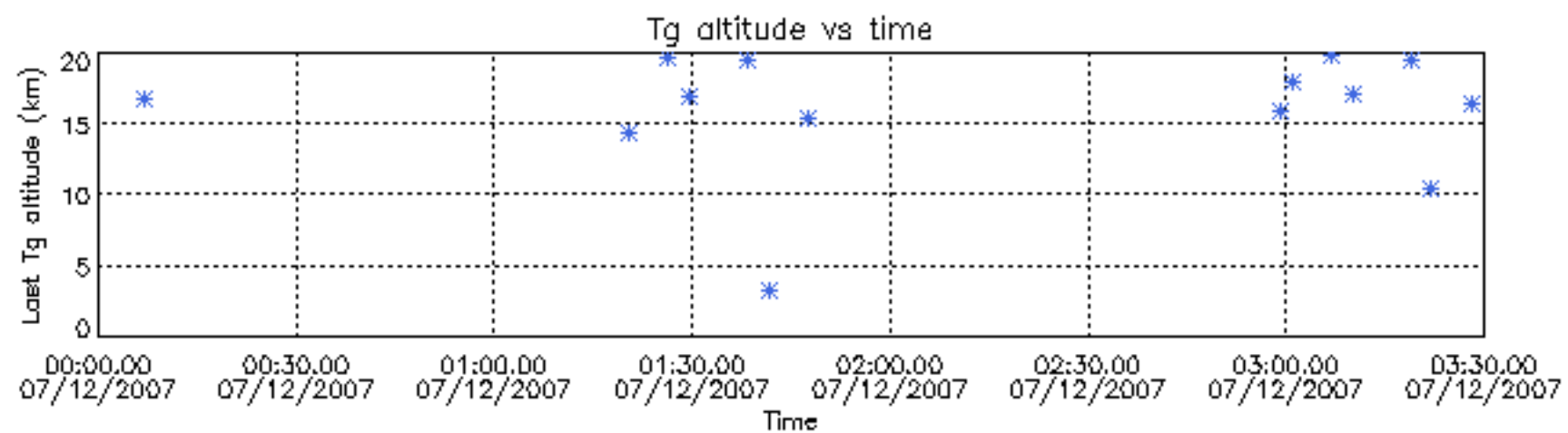
Percentage of star falling outside central band per profile



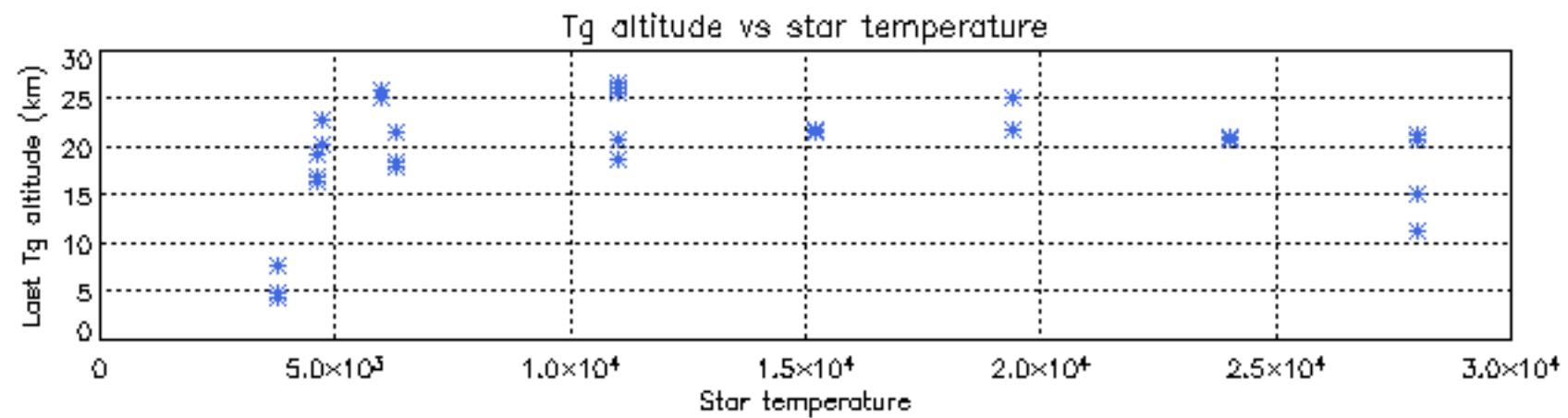
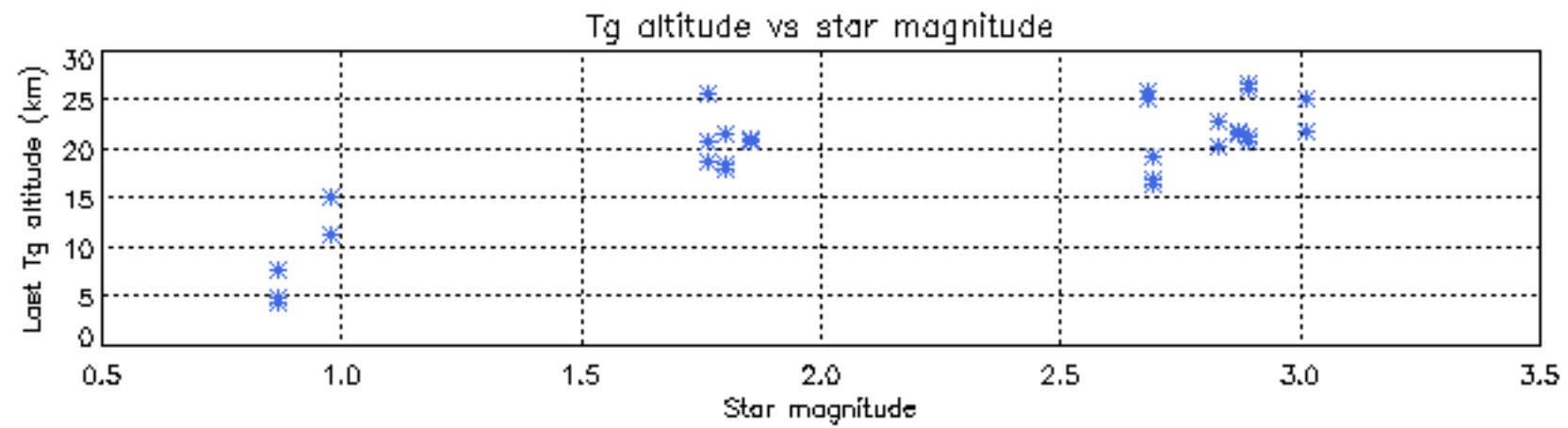
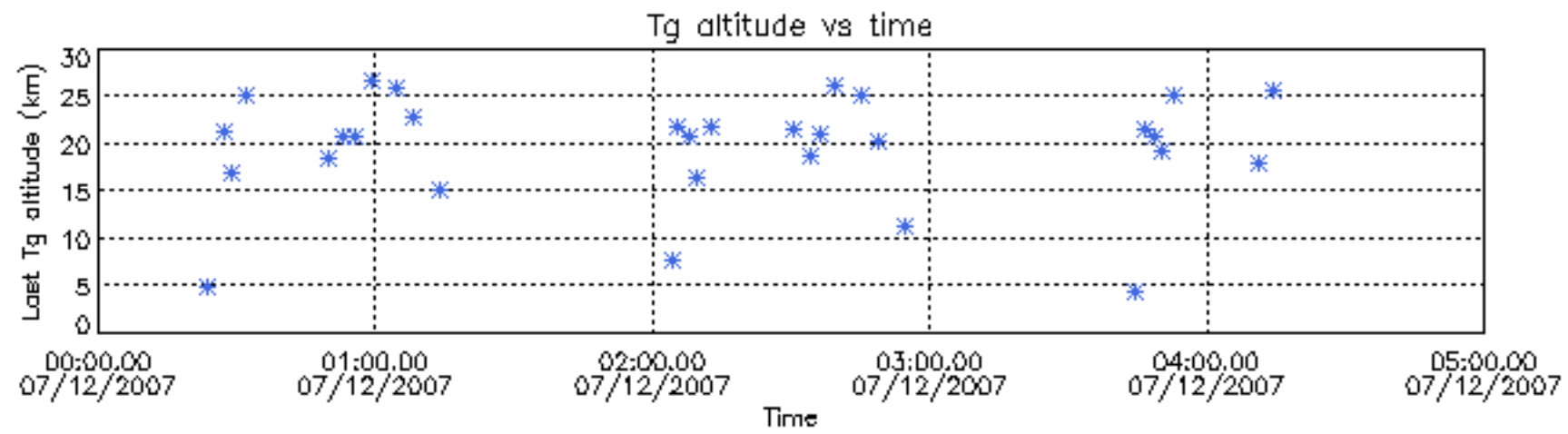
Percentage of saturation errors per profile

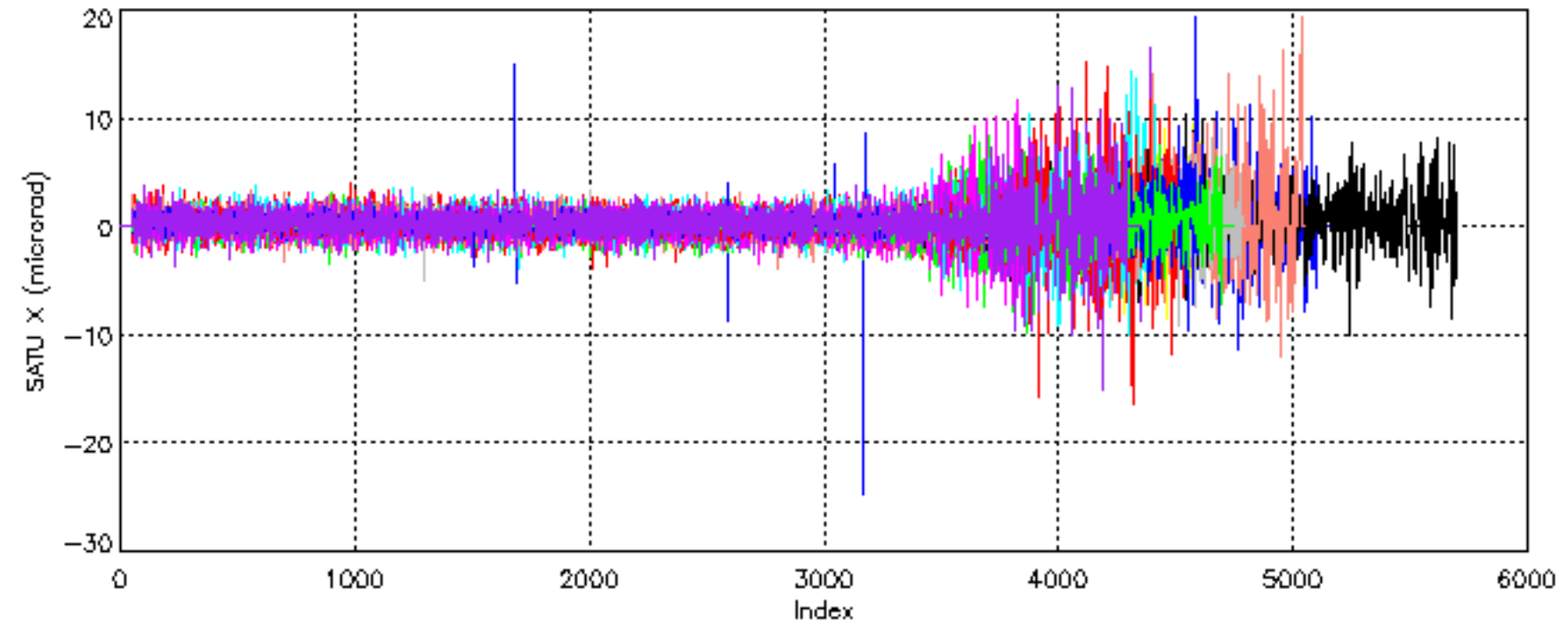


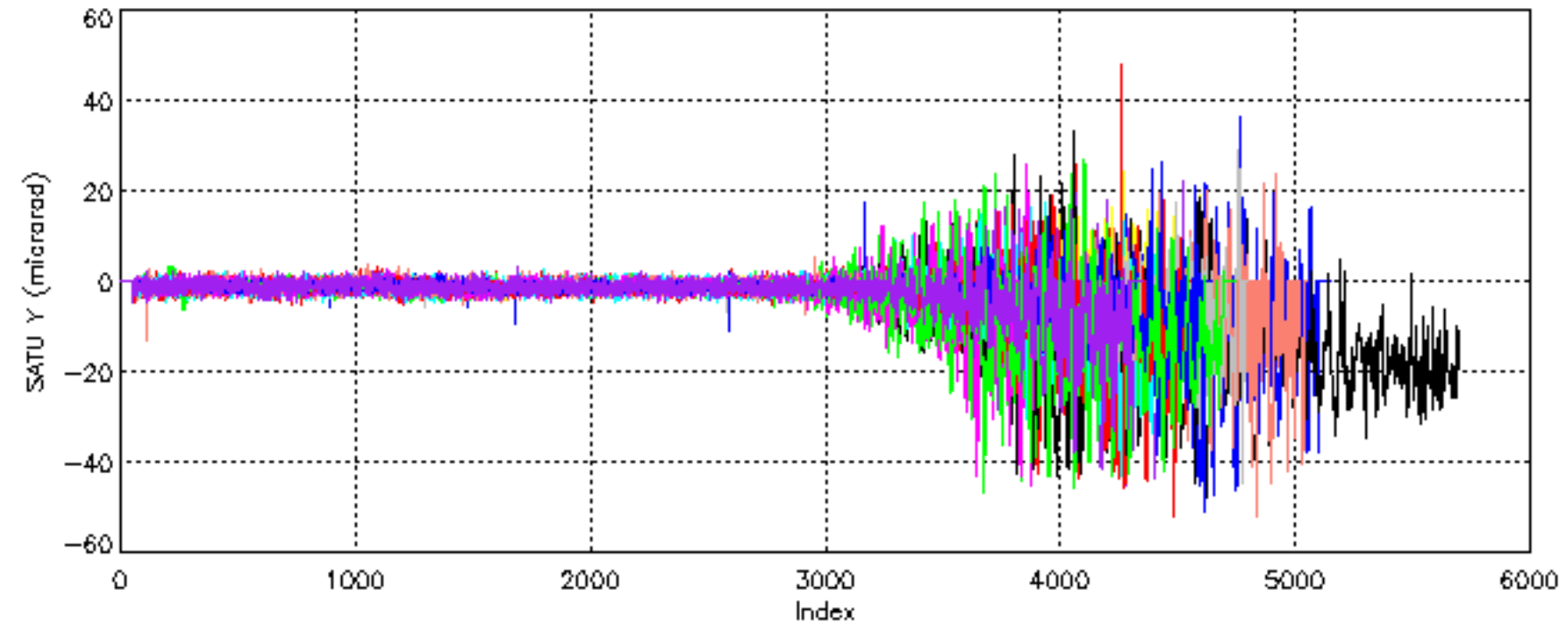
Tangent altitude at which the star is lost

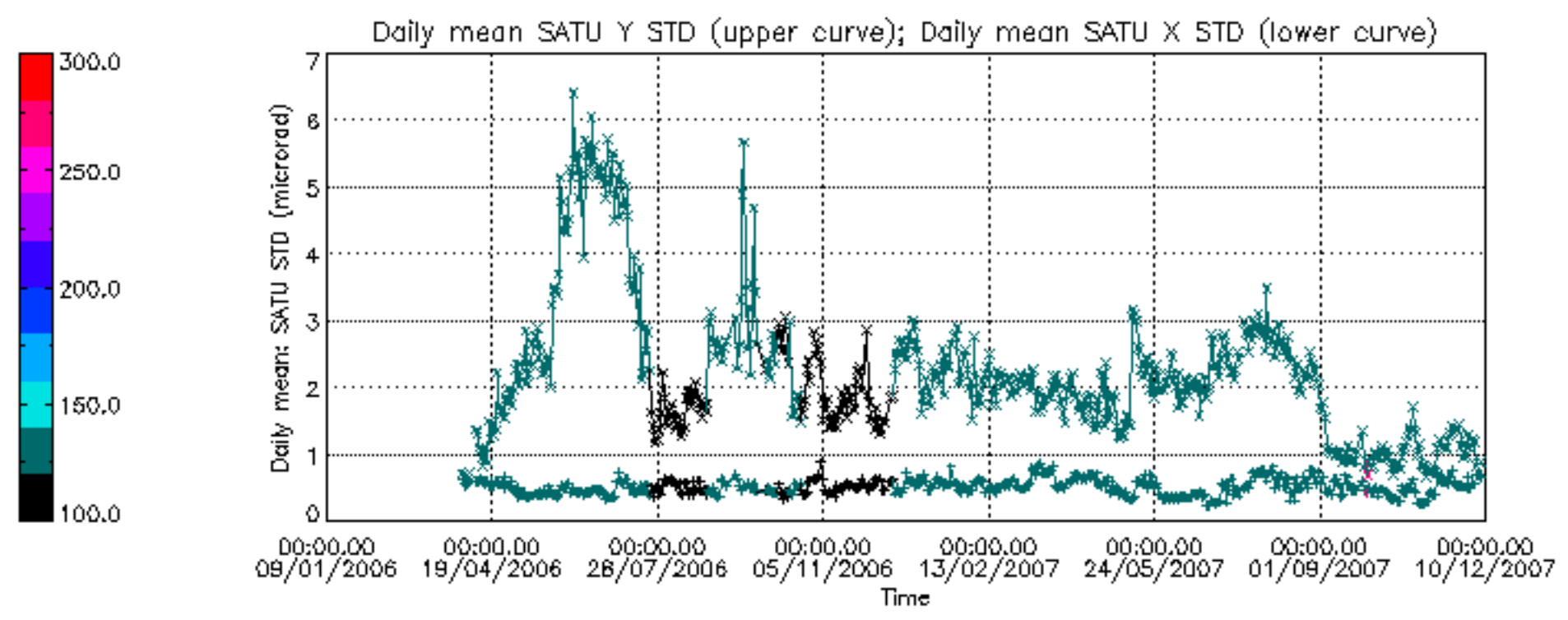


Tangent altitude at which the star is lost









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 4; -145.2; 01-DEC-2007 01:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30073
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 6; 83.1; 01-DEC-2007 01:16:18; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30074
 7; 202.5; 01-DEC-2007 01:18:18; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30074
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 14; 2472.4; 01-DEC-2007 01:56:08; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30074
 15; 2605.6; 01-DEC-2007 01:58:21; Bright; 34.0; 79; 26Bet Per ; 2.31; 13100;occ; 68; 0;30074
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 17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074
 18; 3421.9; 01-DEC-2007 02:11:57; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30074

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14; 203.7; 01-DEC-2007 06:20:07; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30077
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24; 2818.5; 01-DEC-2007 07:03:42; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;30077
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 6; -1177.0; 01-DEC-2007 07:37:42; Bright; 39.0; 138; 47Eps Vir ; 2.83; 4700;occ; 78; 0;30077
 7; -829.8; 01-DEC-2007 07:43:29; Bright; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;30077
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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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 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
 4; 1879.2; 27-DEC-2007 16:34:25; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;30455
 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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 6; 2013.0; 27-DEC-2007 18:17:15; Dark ; 44.5; 27; 24Gam Ori ; 1.64; 26000;occ; 89; 0;30456
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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
 12; 3423.0; 27-DEC-2007 18:40:45; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30456
 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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 15; 4410.8; 27-DEC-2007 18:57:12; Bright; 32.5; 133; 40Zet Her ; 2.81; 6000;occ; 65; 0;30456
 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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 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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 3; -312.6; 28-DEC-2007 00:20:53; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;30459
 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
 12; 1588.6; 28-DEC-2007 00:52:34; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;30460
 13; 1762.1; 28-DEC-2007 00:55:27; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;30460
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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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 19; 2700.3; 28-DEC-2007 01:11:06; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;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
6; -19.2; 28-DEC-2007 02:06:22; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30460
7; 197.9; 28-DEC-2007 02:09:59; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30461
8; 381.1; 28-DEC-2007 02:13:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30461
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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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23; 2193.6; 28-DEC-2007 06:04:27; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30463
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25; 2601.1; 28-DEC-2007 06:11:14; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30463
26; 2700.1; 28-DEC-2007 06:12:53; Bright; 43.0; 6; 13Alp Aur ; 0.08; 3400;occ; 86; 0;30463
27; 2784.7; 28-DEC-2007 06:14:18; Bright; 36.5; 35; 33Alp Per ; 1.79; 6250;occ; 73; 0;30463
28; 3423.1; 28-DEC-2007 06:24:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30463

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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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