

GOMOS Daily Report 27-JUL-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	31JUL2007 13:52:30
Data source version	GOMOS/5.00
Start time of products	27-07-2007 (27JUL2007 00:00:00)
Stop time of products	28-07-2007 (28JUL2007 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)

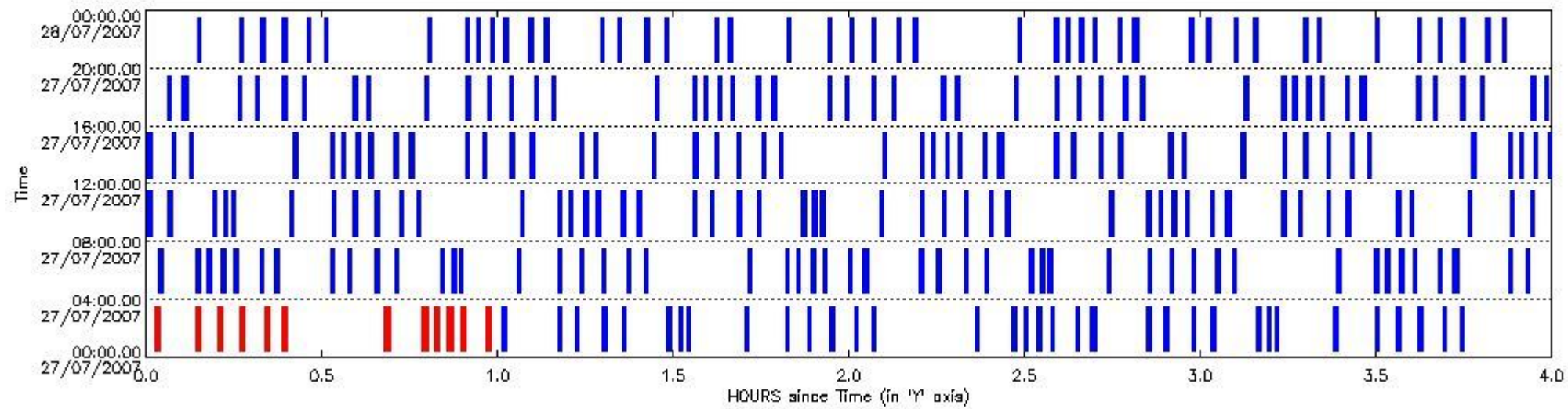
2.1 Level 0 products arrived in PCF (see template [here](#))

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).



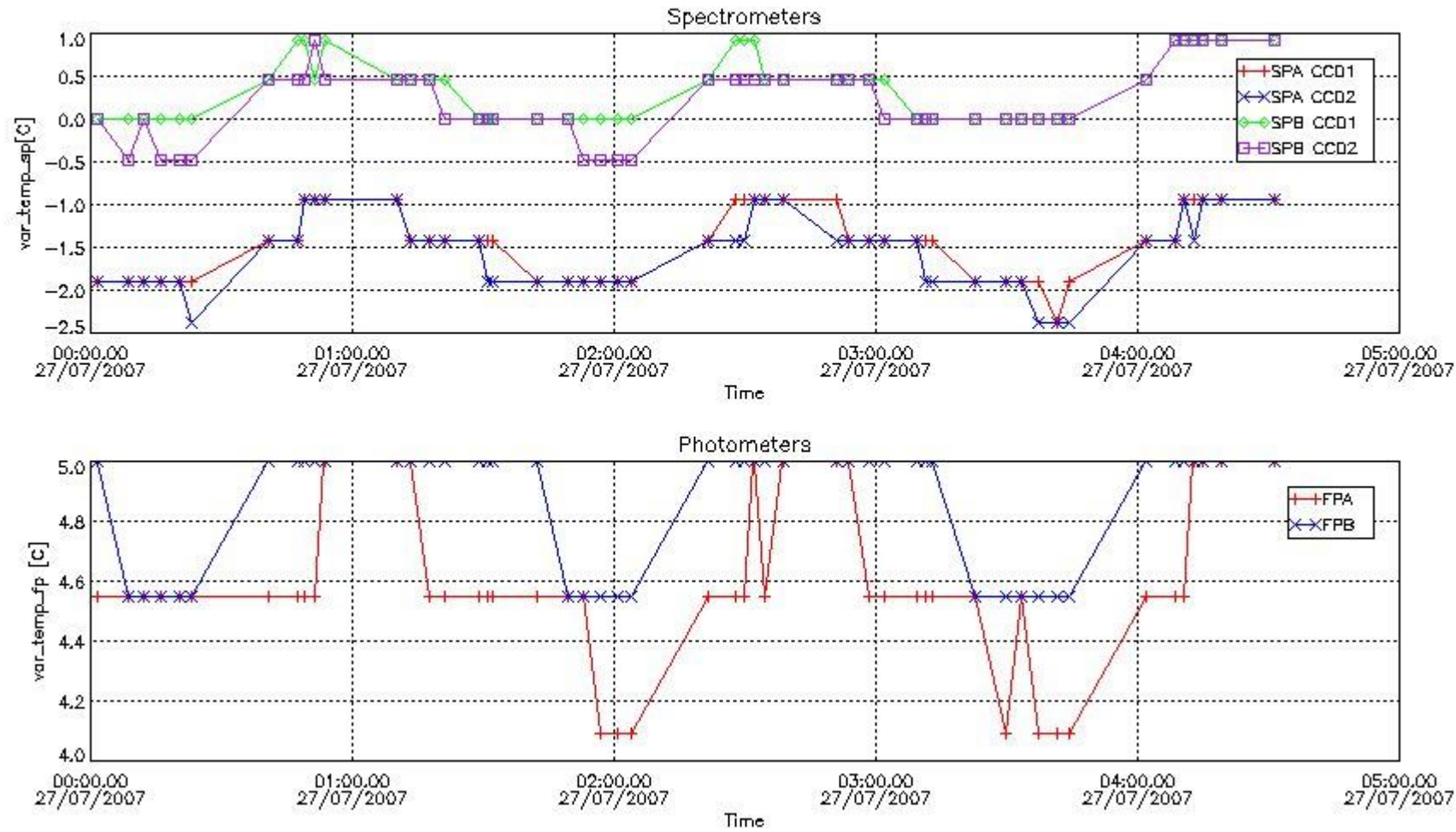
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
27-JUL-2007 00:01:26	17ZetAql	168	28255
27-JUL-2007 00:08:30	3AlpLyr	5	28255
27-JUL-2007 00:12:09	33GamDra	69	28255
27-JUL-2007 00:15:55	14EtaDra	119	28255
27-JUL-2007 00:20:08	7BetUMi	60	28255
27-JUL-2007 00:23:04	1AlpUMi	49	28255
27-JUL-2007 00:40:44	12BetTau	28	28255
27-JUL-2007 00:47:08	24GamOri	27	28255
27-JUL-2007 00:49:03	46EpsOri	30	28255
27-JUL-2007 00:51:24	19BetOri	7	28255
27-JUL-2007 00:53:40	11AlpLep	101	28255
27-JUL-2007 00:57:58	AlpCol	108	28255

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_1PNPDE20070727_000135_000000362060_00145_28255_2543.N1	27-JUL-2007 00:01:35	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	28255	No
2	GOM_TRA_1PNPDE20070727_000839_000000352060_00145_28255_2544.N1	27-JUL-2007 00:08:39	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	28255	No
3	GOM_TRA_1PNPDE20070727_001218_000000372060_00145_28255_2545.N1	27-JUL-2007 00:12:18	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	28255	No
4	GOM_TRA_1PNPDE20070727_001603_000000362060_00145_28255_2546.N1	27-JUL-2007 00:16:03	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	28255	No
5	GOM_TRA_1PNPDE20070727_002016_000000362060_00145_28255_2547.N1	27-JUL-2007 00:20:16	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	28255	No
6	GOM_TRA_1PNPDE20070727_002313_000000332060_00145_28255_2548.N1	27-JUL-2007 00:23:13	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28255	No
7	GOM_TRA_1PNPDE20070727_004053_000000412060_00145_28255_2549.N1	27-JUL-2007 00:40:53	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	28255	No
8	GOM_TRA_1PNPDE20070727_004716_000000362060_00145_28255_2550.N1	27-JUL-2007 00:47:16	Dark	36.000	27	24Gam Ori	1.6360	26000.	72	28255	No
9	GOM_TRA_1PNPDE20070727_004911_000000362060_00145_28255_2551.N1	27-JUL-2007 00:49:11	Dark	36.000	30	46Eps Ori	1.6940	30000.	72	28255	No
10	GOM_TRA_1PNPDE20070727_005132_000000422060_00145_28255_2552.N1	27-JUL-2007 00:51:32	Dark	42.000	7	19Bet Ori	0.10000	14000.	84	28255	No
11	GOM_TRA_1PNPDE20070727_005349_000000402060_00145_28255_2553.N1	27-JUL-2007 00:53:49	Dark	39.500	101	11Alp Lep	2.5820	7000.0	79	28255	No
12	GOM_TRA_1PNPDE20070727_011014_000000392060_00146_28256_2672.N1	27-JUL-2007 01:10:14	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28256	No
13	GOM_TRA_1PNPDE20070727_011313_000000352060_00146_28256_2673.N1	27-JUL-2007 01:13:13	Dark	35.000	135	Bet Hyi	2.8200	5800.0	70	28256	No
14	GOM_TRA_1PNPDE20070727_011750_000000512060_00146_28256_2674.N1	27-JUL-2007 01:17:50	Straylight	50.500	148	Alp Tuc	2.8780	4100.0	101	28256	No
15	GOM_TRA_1PNPDE20070727_012116_000000382060_00146_28256_2675.N1	27-JUL-2007 01:21:16	Straylight	38.000	45	Alp Pav	1.9400	26000.	76	28256	No
16	GOM_TRA_1PNPDE20070727_012856_000000392060_00146_28256_2676.N1	27-JUL-2007 01:28:56	Bright	38.500	38	20Eps Sgr	1.8360	11000.	77	28256	No
17	GOM_TRA_1PNPDE20070727_013051_000000392060_00146_28256_2677.N1	27-JUL-2007 01:30:51	Bright	38.500	57	34Sig Sgr	2.0660	26000.	77	28256	No
18	GOM_TRA_1PNPDE20070727_013210_000000372060_00146_28256_2678.N1	27-JUL-2007 01:32:10	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	28256	No
19	GOM_TRA_1PNPDE20070727_014210_000000362060_00146_28256_2679.N1	27-JUL-2007 01:42:10	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	28256	No
20	GOM_TRA_1PNPDE20070727_014914_000000372060_00146_28256_2680.N1	27-JUL-2007 01:49:14	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	28256	No
21	GOM_TRA_1PNPDE20070727_015254_000000372060_00146_28256_2681.N1	27-JUL-2007 01:52:54	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	28256	No
22	GOM_TRA_1PNPDE20070727_015640_000000522060_00146_28256_2682.N1	27-JUL-2007 01:56:40	Bright	52.000	119	14Eta Dra	2.7270	4700.0	104	28256	No
23	GOM_TRA_1PNPDE20070727_020052_000000332060_00146_28256_2683.N1	27-JUL-2007 02:00:52	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	28256	No
24	GOM_TRA_1PNPDE20070727_020349_000000342060_00146_28256_2684.N1	27-JUL-2007 02:03:49	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	28256	No
25	GOM_TRA_1PNPDE20070727_022129_000000412060_00146_28256_2823.N1	27-JUL-2007 02:21:29	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	28256	No
26	GOM_TRA_1PNPDE20070727_022753_000000382060_00146_28256_2824.N1	27-JUL-2007 02:27:53	Dark	38.000	27	24Gam Ori	1.6360	26000.	76	28256	No
27	GOM_TRA_1PNPDE20070727_022948_000000392060_00146_28256_2825.N1	27-JUL-2007 02:29:48	Dark	38.500	30	46Eps Ori	1.6940	30000.	77	28256	No
28	GOM_TRA_1PNPDE20070727_023209_000000442060_00146_28256_2826.N1	27-JUL-2007 02:32:09	Dark	44.000	7	19Bet Ori	0.10000	14000.	88	28256	No
29	GOM_TRA_1PNPDE20070727_023425_000000412060_00146_28256_2827.N1	27-JUL-2007 02:34:25	Dark	41.000	101	11Alp Lep	2.5820	7000.0	82	28256	No
30	GOM_TRA_1PNPDE20070727_023842_000000392060_00146_28256_2828.N1	27-JUL-2007 02:38:42	Dark	39.000	108	Alp Col	2.6520	15200.	78	28256	No
31	GOM_TRA_1PNPDE20070727_025050_000000392060_00147_28257_2829.N1	27-JUL-2007 02:50:50	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28257	No
32	GOM_TRA_1PNPDE20070727_025349_000000372060_00147_28257_2830.N1	27-JUL-2007 02:53:49	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28257	No
33	GOM_TRA_1PNPDE20070727_025826_000000402060_00147_28257_2831.N1	27-JUL-2007 02:58:26	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	28257	No
34	GOM_TRA_1PNPDE20070727_030153_000000382060_00147_28257_2832.N1	27-JUL-2007 03:01:53	Straylight	37.500	45	Alp Pav	1.9400	26000.	75	28257	No
35	GOM_TRA_1PNPDE20070727_030932_000000432060_00147_28257_2833.N1	27-JUL-2007 03:09:32	Bright	43.000	38	20Eps Sgr	1.8360	11000.	86	28257	No
36	GOM_TRA_1PNPDE20070727_031127_000000382060_00147_28257_2834.N1	27-JUL-2007 03:11:27	Bright	38.000	57	34Sig Sgr	2.0660	26000.	76	28257	No
37	GOM_TRA_1PNPDE20070727_031246_000000372060_00147_28257_2835.N1	27-JUL-2007 03:12:46	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28257	No
38	GOM_TRA_1PNPDE20070727_032246_000000362060_00147_28257_2836.N1	27-JUL-2007 03:22:46	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	28257	No
39	GOM_TRA_1PNPDE20070727_032950_000000402060_00147_28257_2837.N1	27-JUL-2007 03:29:50	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	28257	No
40	GOM_TRA_1PNPDE20070727_033330_000000362060_00147_28257_2838.N1	27-JUL-2007 03:33:30	Bright	35.500	69	33Gam Dra	2.2310	3800.0	71	28257	No
41	GOM_TRA_1PNPDE20070727_033716_000000342060_00147_28257_2839.N1	27-JUL-2007 03:37:16	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	28257	No
42	GOM_TRA_1PNPDE20070727_034129_000000342060_00147_28257_2840.N1	27-JUL-2007 03:41:29	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	28257	No
43	GOM_TRA_1PNPDE20070727_034425_000000342060_00147_28257_2841.N1	27-JUL-2007 03:44:25	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28257	No
44	GOM_TRA_1PNPDE20070727_040205_000000402060_00147_28257_2990.N1	27-JUL-2007 04:02:05	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	28257	No
45	GOM_TRA_1PNPDE20070727_040829_000000402060_00147_28257_2991.N1	27-JUL-2007 04:08:29	Dark	40.000	27	24Gam Ori	1.6360	26000.	80	28257	No
46	GOM_TRA_1PNPDE20070727_041024_000000402060_00147_28257_2992.N1	27-JUL-2007 04:10:24	Dark	40.000	30	46Eps Ori	1.6940	30000.	80	28257	No
47	GOM_TRA_1PNPDE20070727_041245_000000542060_00147_28257_2993.N1	27-JUL-2007 04:12:45	Dark	54.000	7	19Bet Ori	0.10000	14000.	108	28257	No
48	GOM_TRA_1PNPDE20070727_041501_000000402060_00147_28257_2994.N1	27-JUL-2007 04:15:01	Dark	40.000	101	11Alp Lep	2.5820	7000.0	80	28257	No
49	GOM_TRA_1PNPDE20070727_041919_000000382060_00147_28257_2995.N1	27-JUL-2007 04:19:19	Dark	37.500	108	Alp Col	2.6520	15200.	75	28257	No
50	GOM_TRA_1PNPDE20070727_043127_000000402060_00148_28258_2996.N1	27-JUL-2007 04:31:27	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	28258	No

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



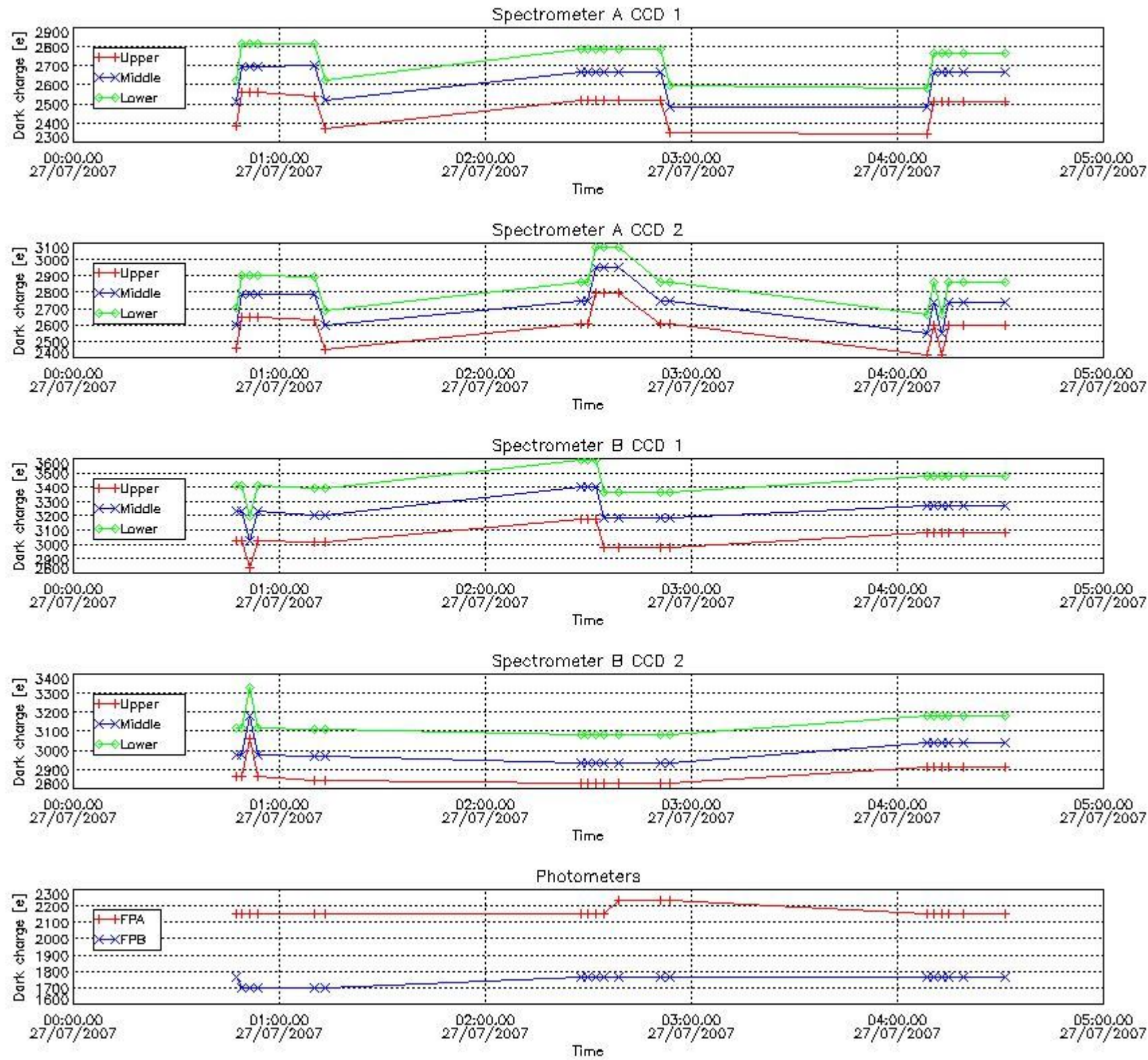
4. Overview of dark signal processing per product

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



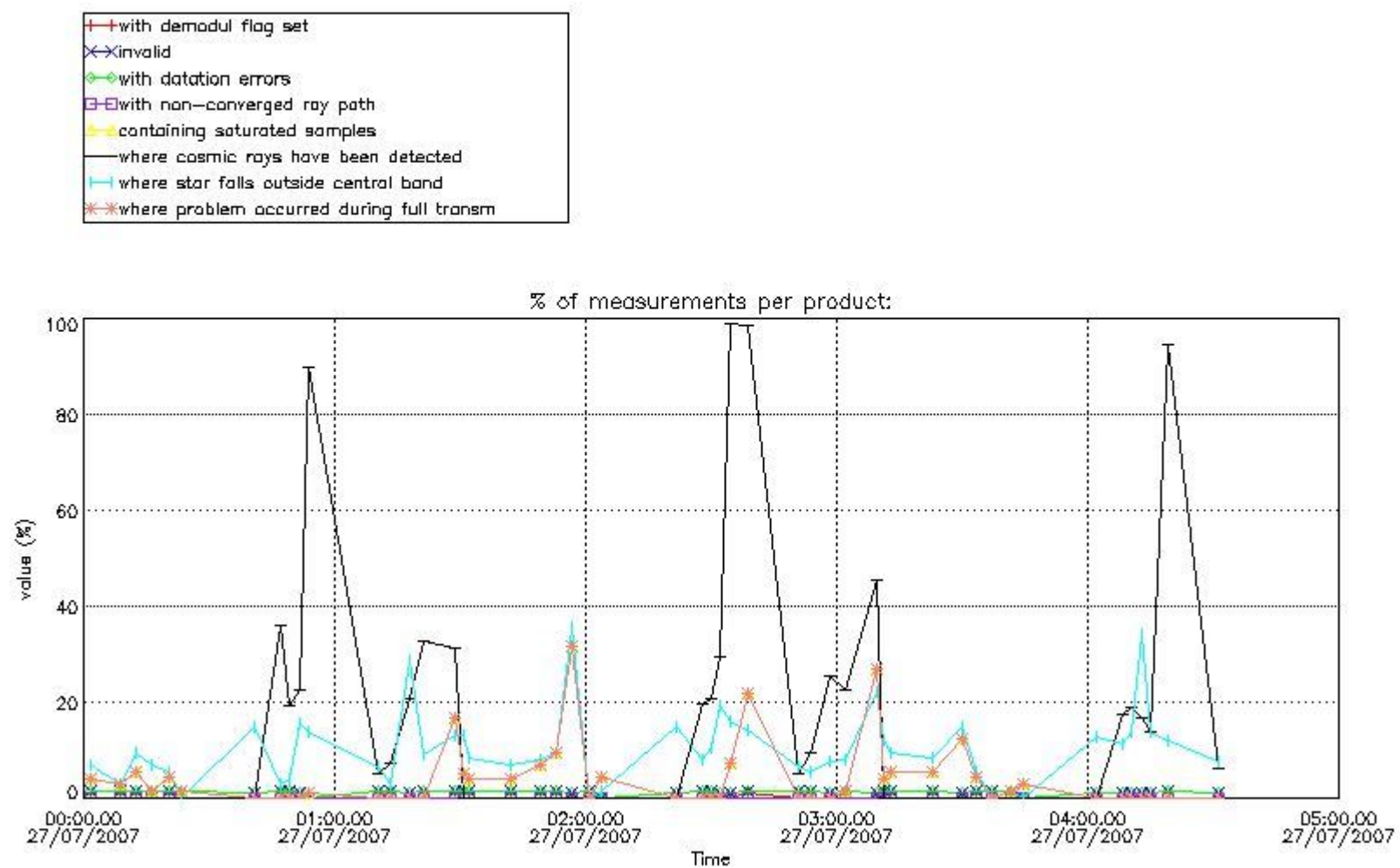
5. Demodulation flag and quality information monitoring

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.

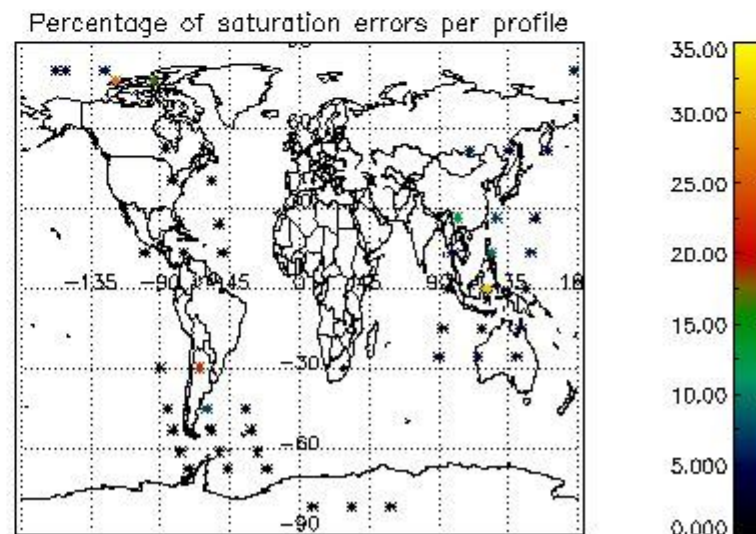
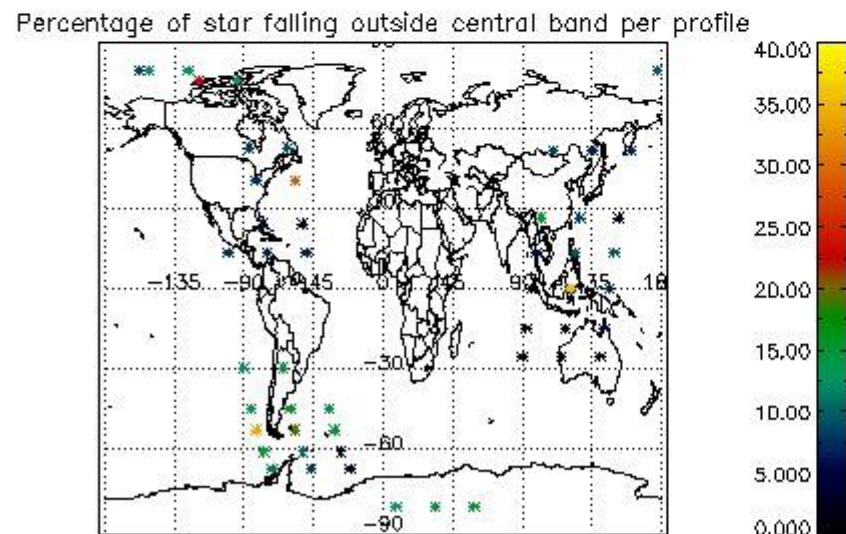
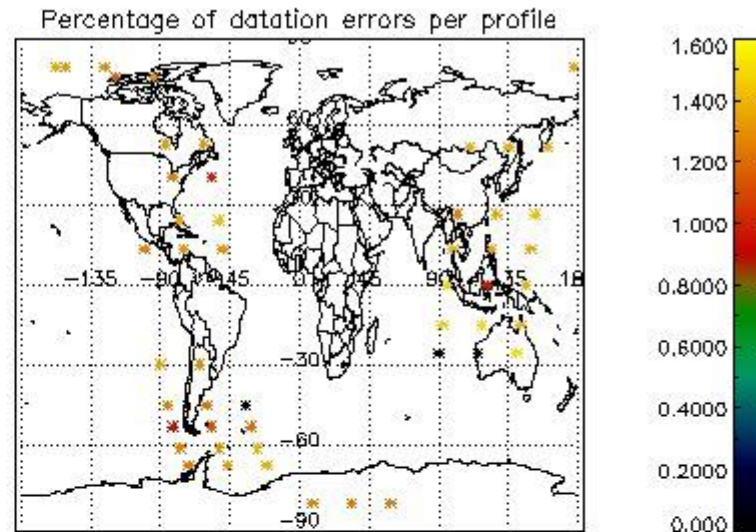
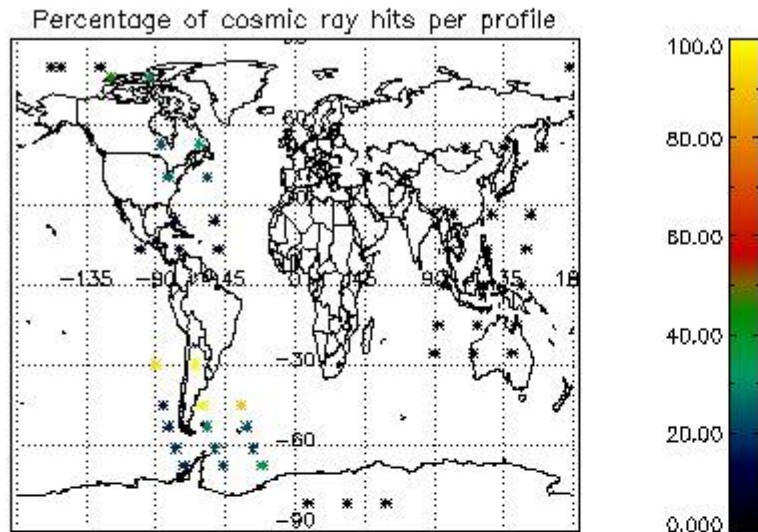
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.0000 %
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)



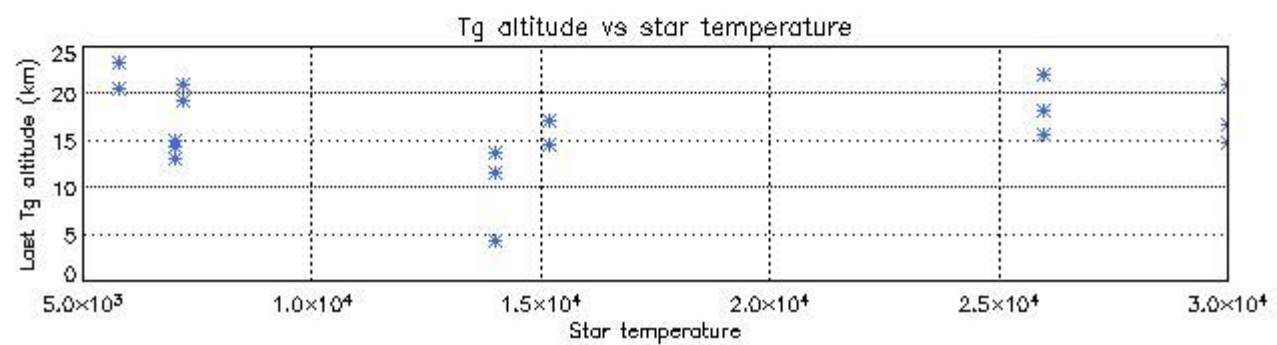
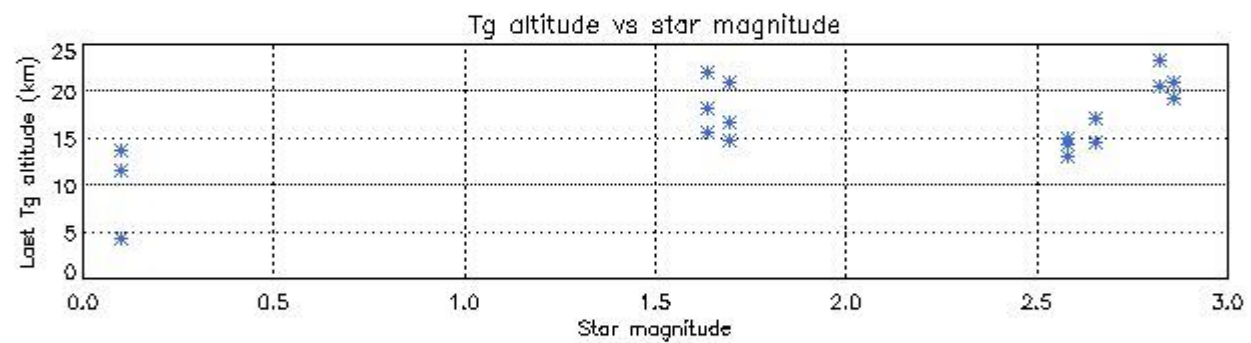
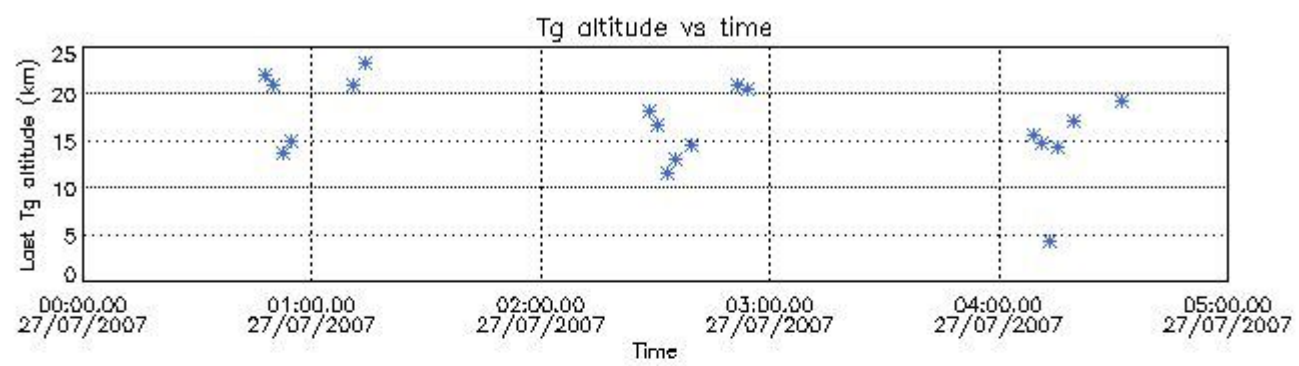
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.640	19.483	NaN
St. deviation:	4.5359	5.3942	NaN
Maximum:	23.318	27.792	NaN
Minimum:	4.3288	3.4021	NaN
Number of data:	19.000	27.000	NaN

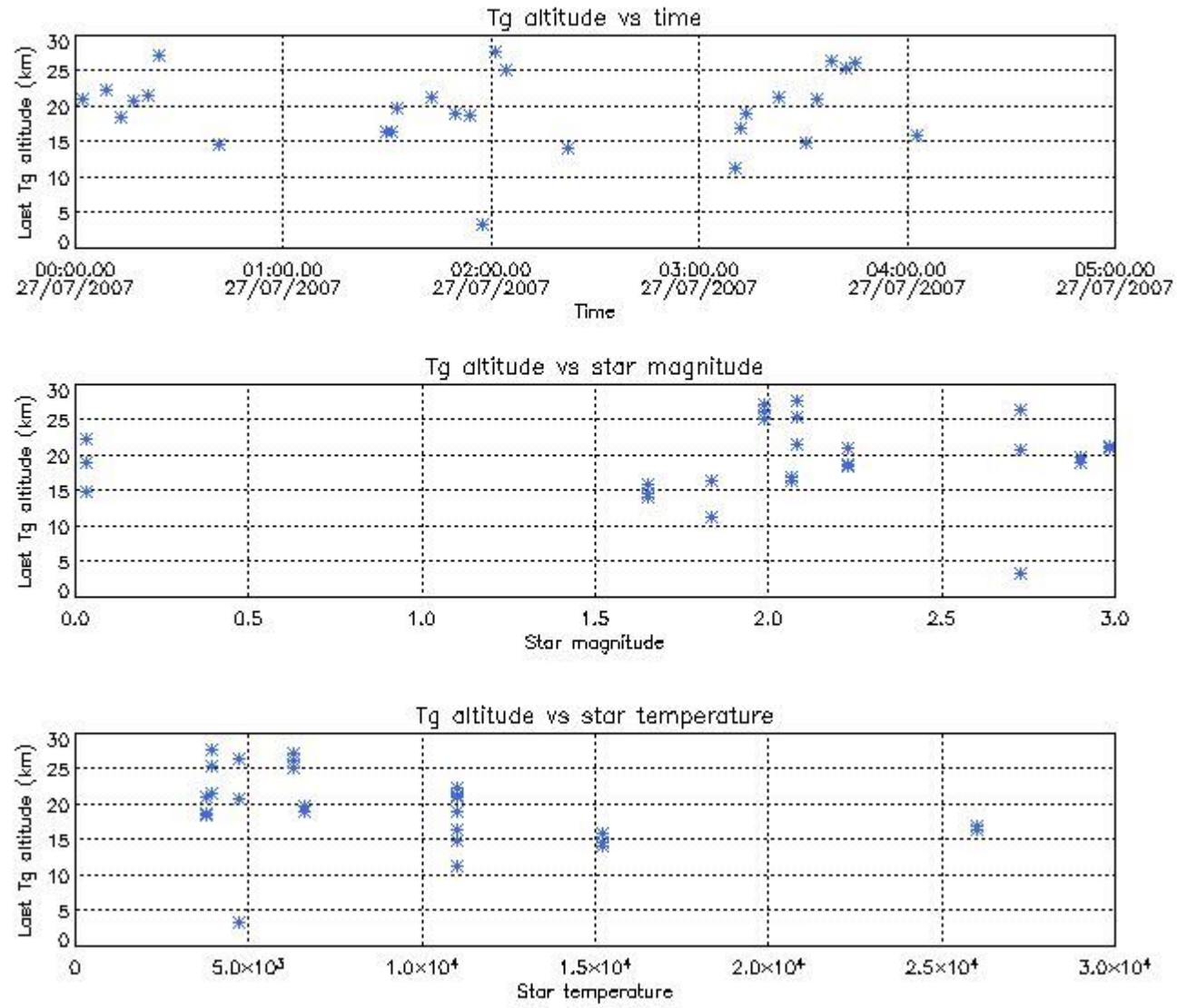
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

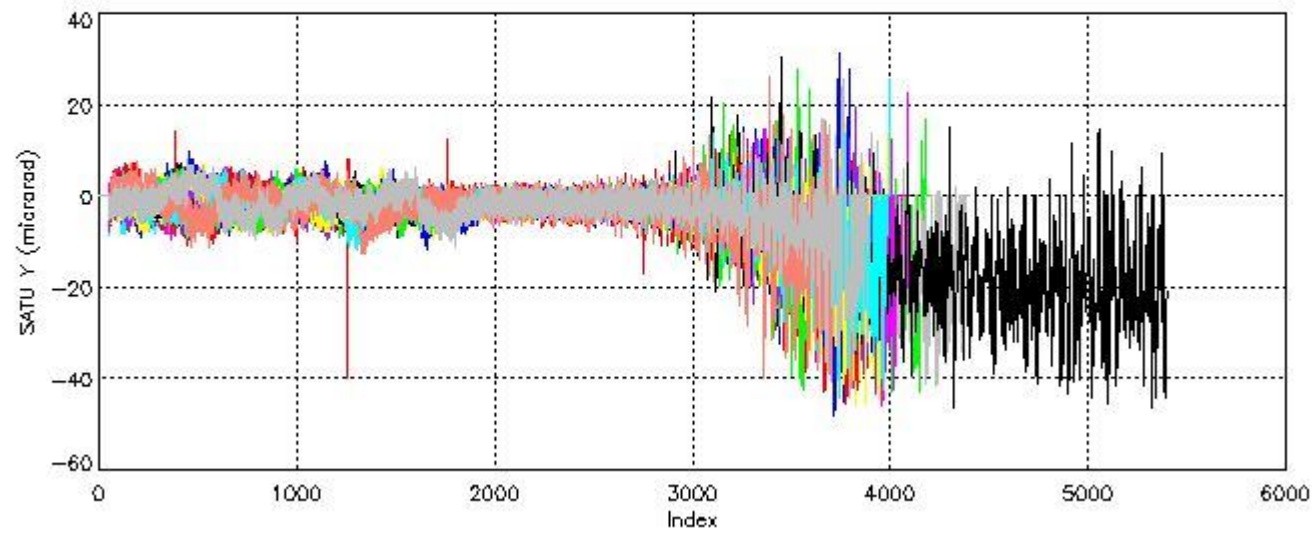
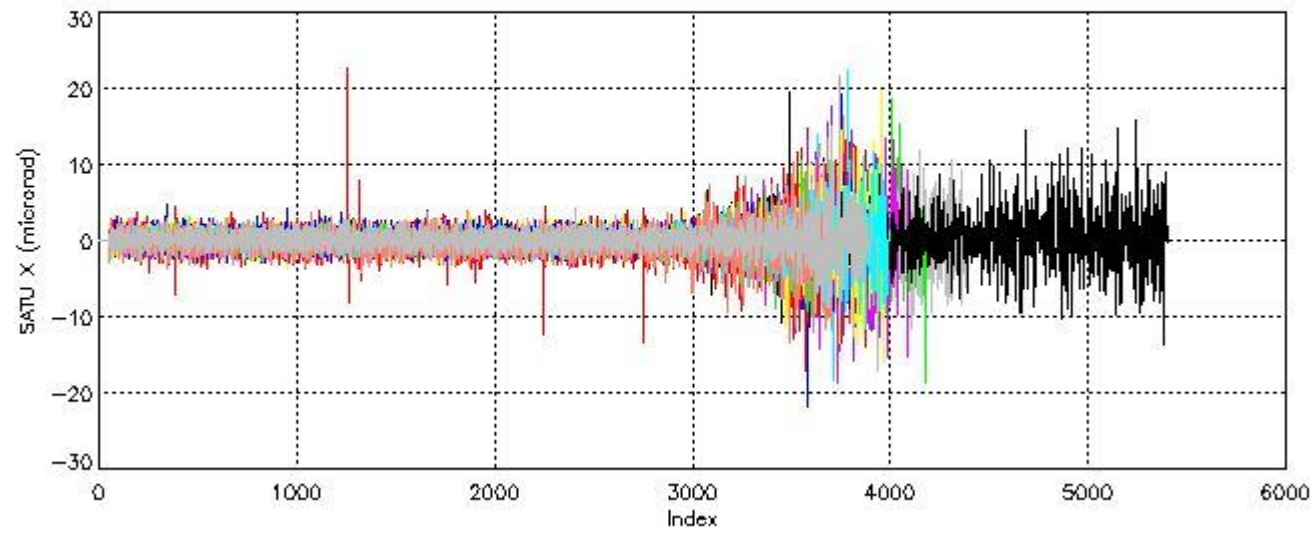


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.014172	-1.2657	0.042749	-1.0646
St. deviation:	0.70615	2.8344	0.67327	2.8540
Maximum:	4.7000	14.200	6.3000	9.2000
Minimum:	-7.0000	-11.100	-5.7000	-12.300

Number of data:	16600.	16600.	22200.	22200.
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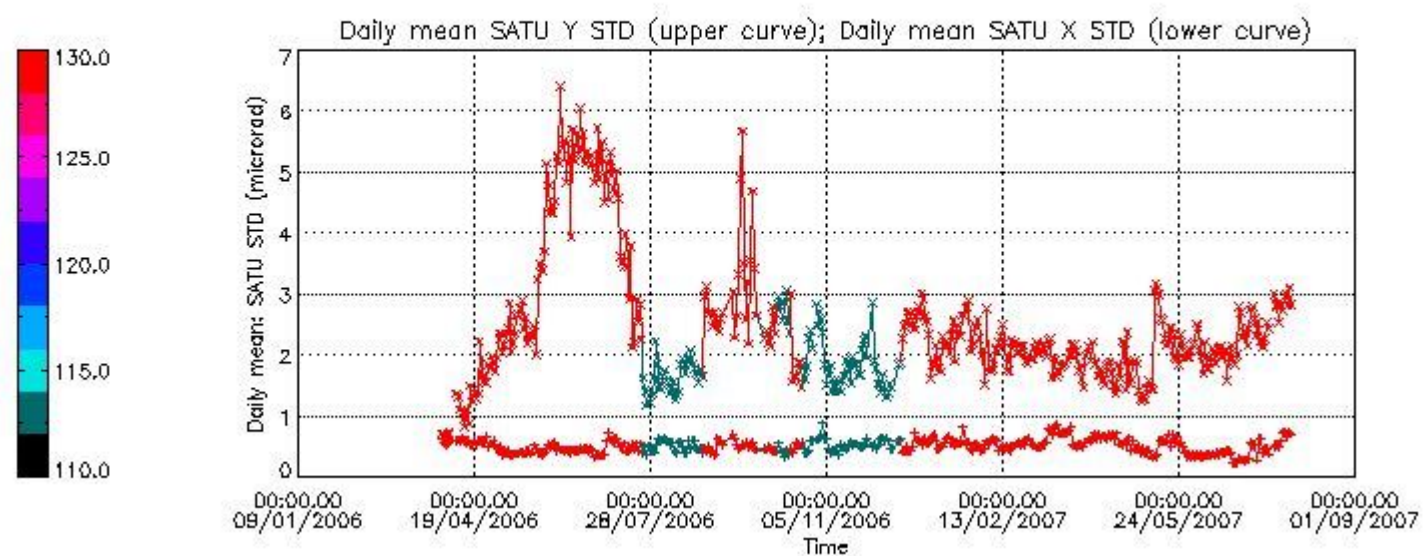
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

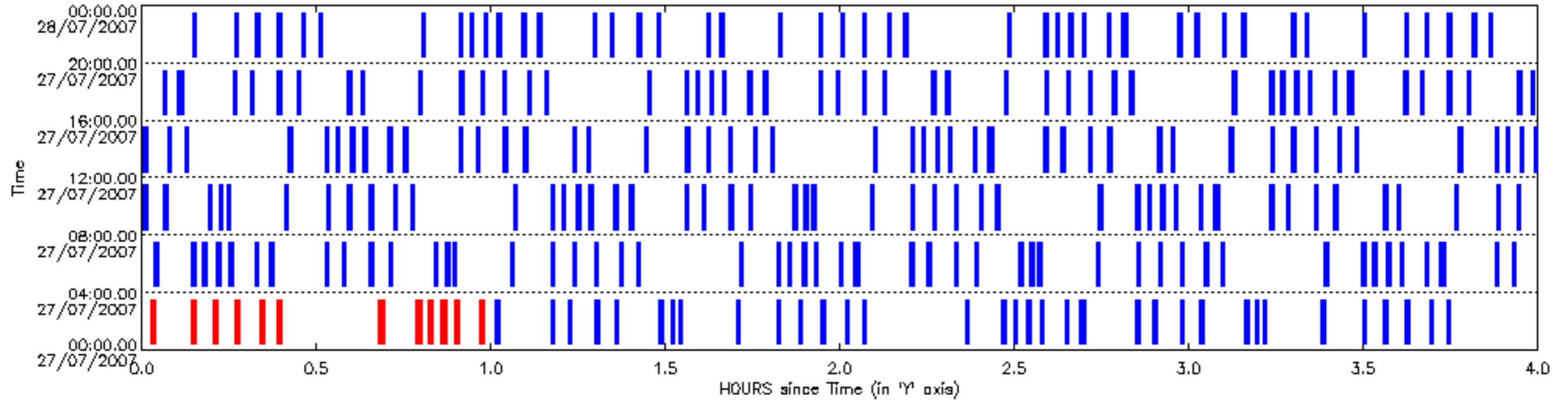
Lower curve: STD of SATU X axis

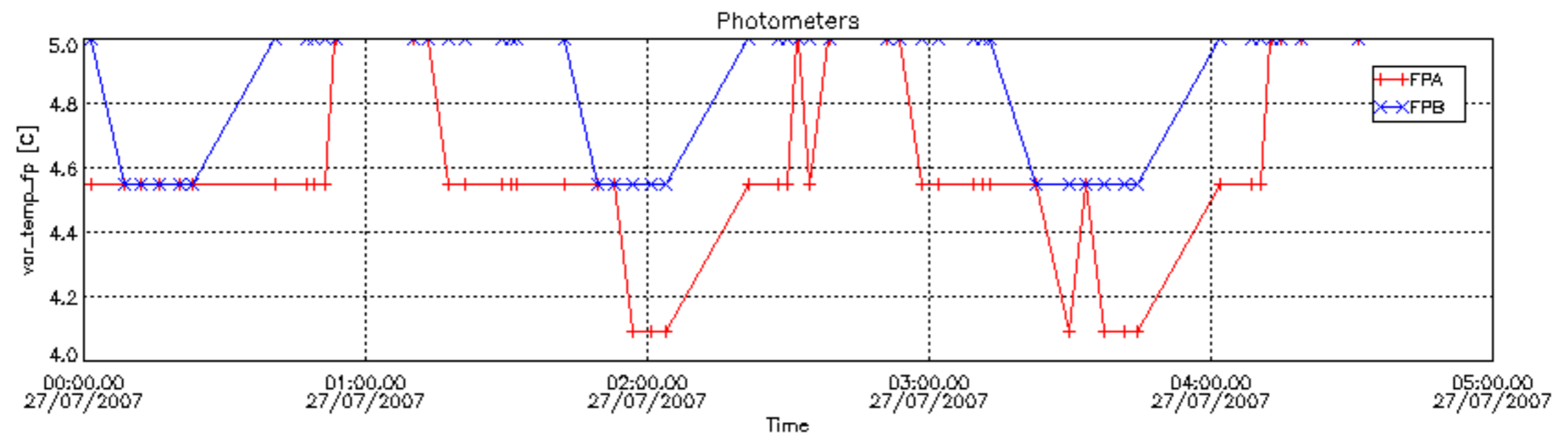
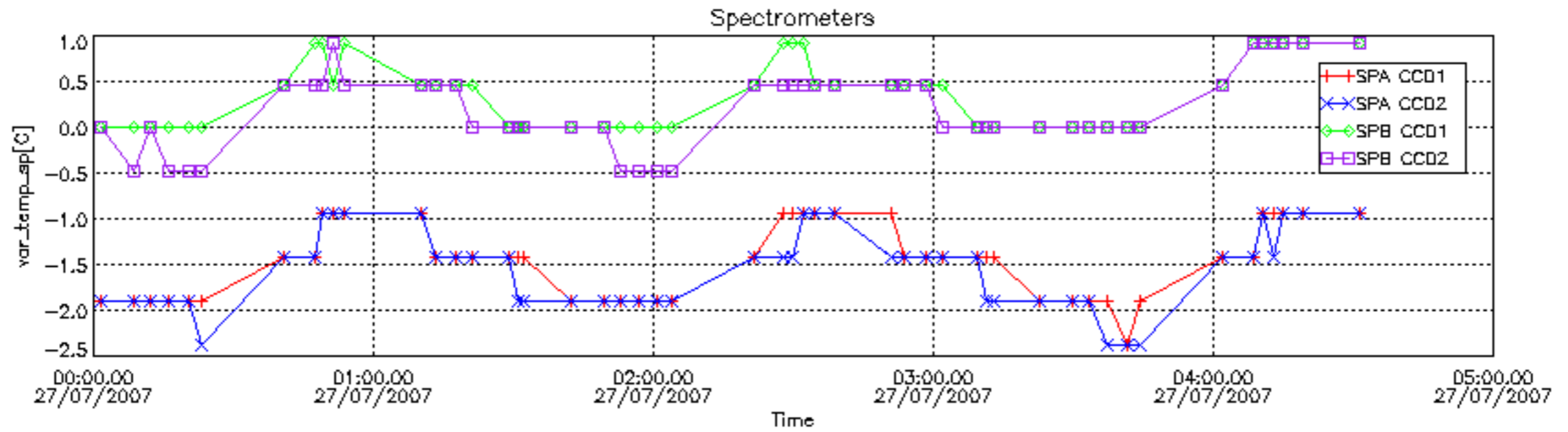


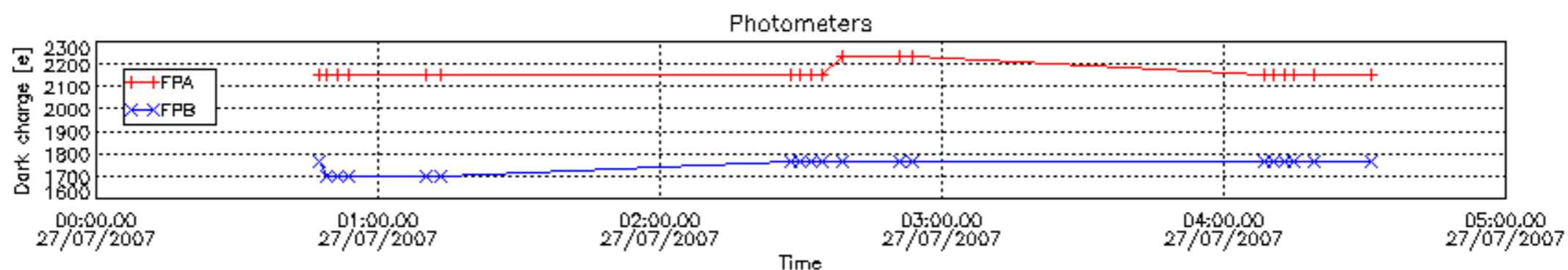
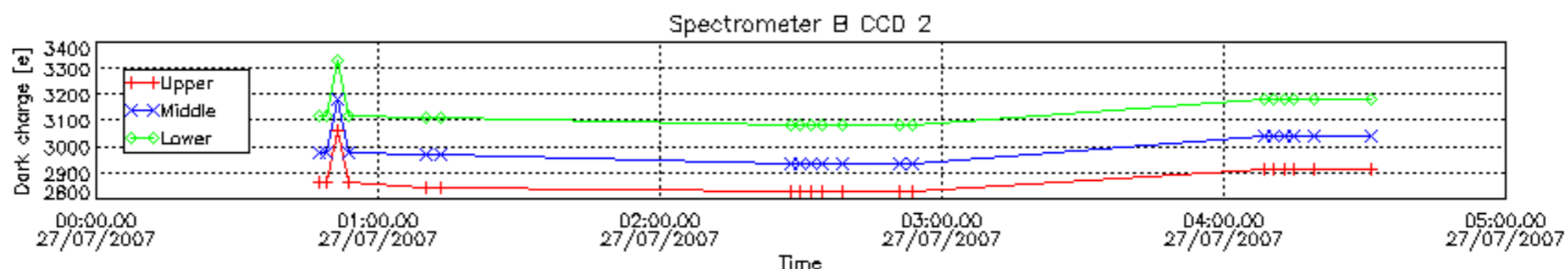
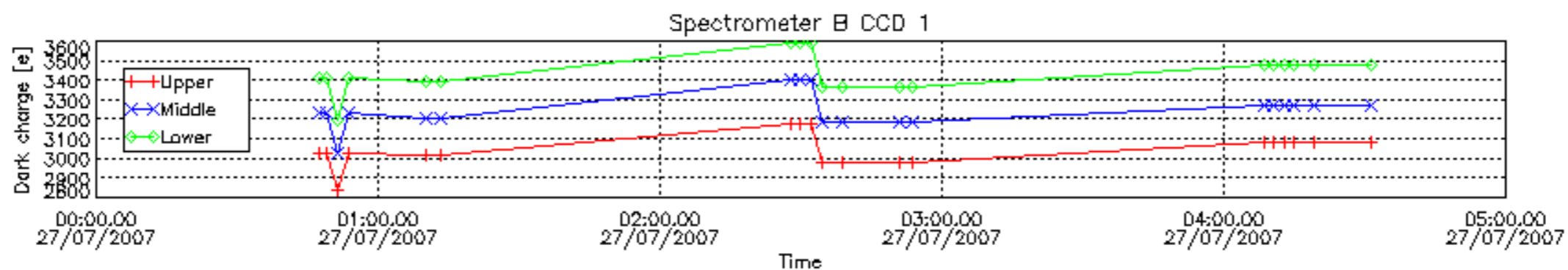
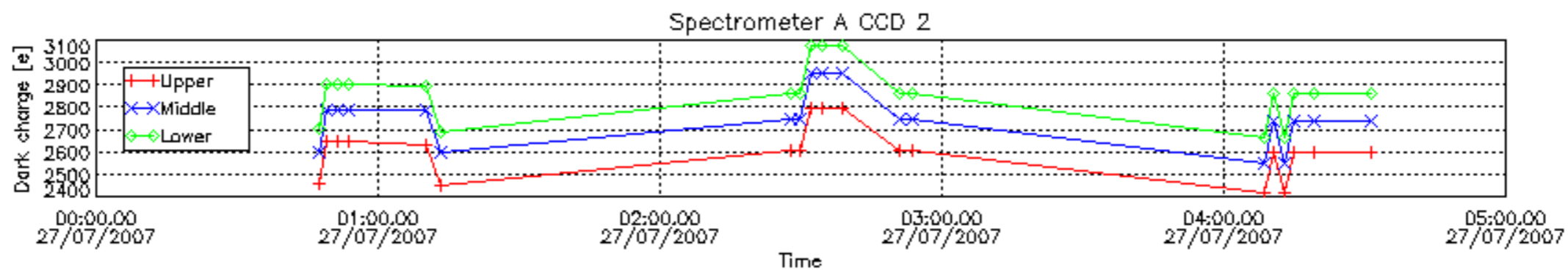
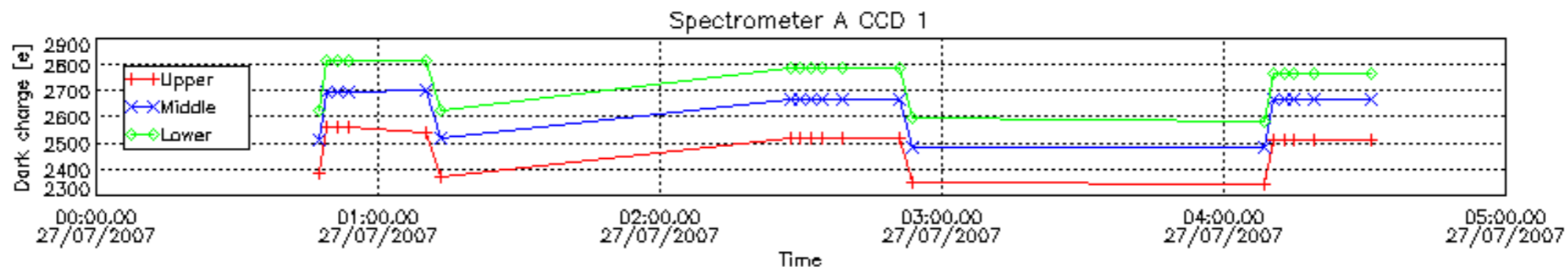
8. Auxiliary Data Files used for the production reported in section 2.4

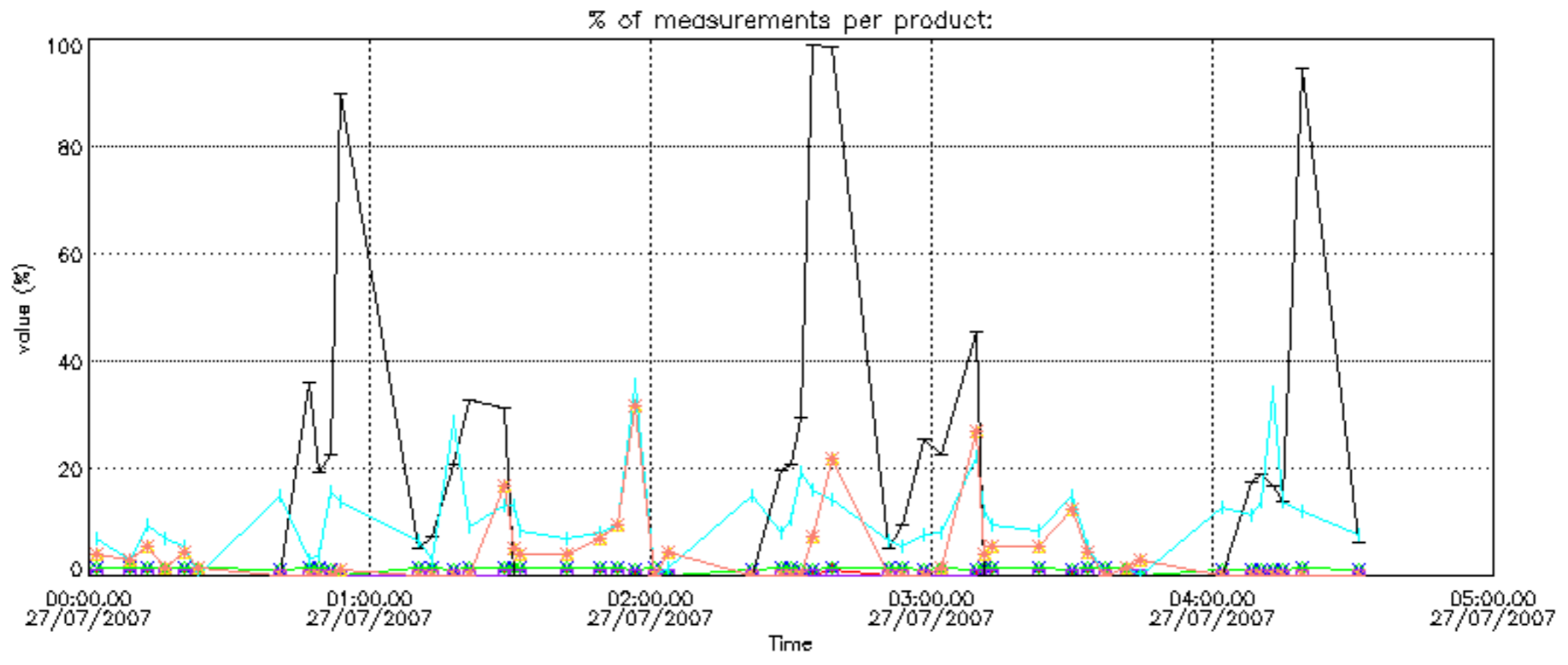
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-JUL-2007 00:01:35
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070726_133456_20070725_000000_20100101_000000	1	27-JUL-2007 00:01:35
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-JUL-2007 00:01:35
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-JUL-2007 00:01:35
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-JUL-2007 00:01:35
ECMWF_FILE	AUX_ECF_AXNECM20070726_061115_20070726_210000_20070727_090000	1	27-JUL-2007 00:01:35
ECMWF_FILE	AUX_ECF_AXNECM20070726_181116_20070727_030000_20070727_150000	44	27-JUL-2007 04:02:05
OPTIONAL_ECMWF_FILE	MISSING	1	27-JUL-2007 00:01:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070726_212807_000057382060_00143_28253_3855.N1	1	27-JUL-2007 00:01:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070726_230904_000060572060_00144_28254_3856.N1	12	27-JUL-2007 01:10:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070727_005520_000038252060_00145_28255_3857.N1	25	27-JUL-2007 02:21:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070727_020424_000057382060_00146_28256_3858.N1	44	27-JUL-2007 04:02:05

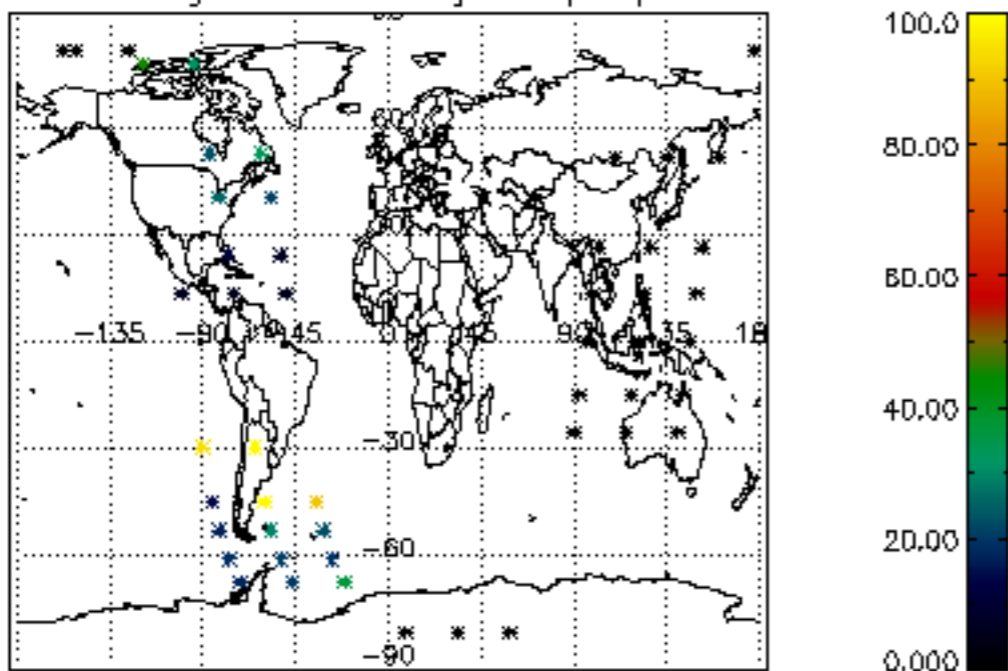




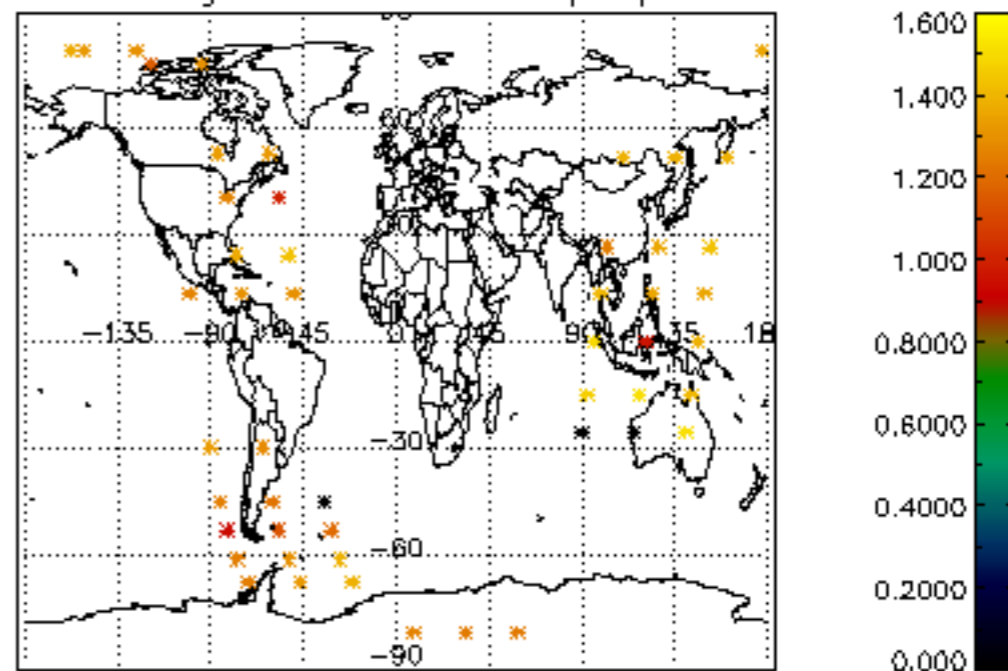




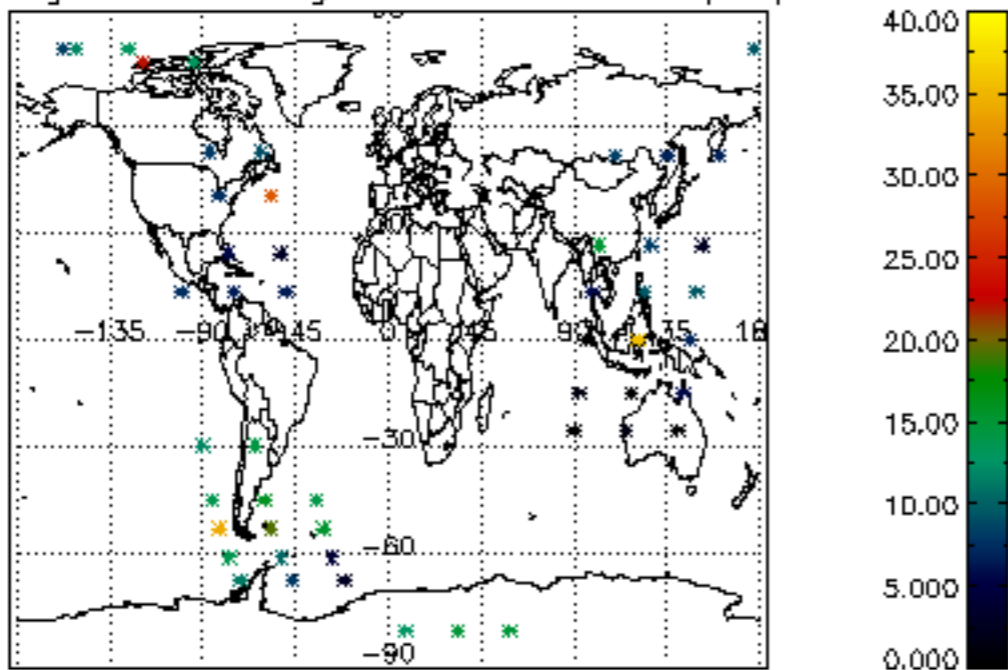
Percentage of cosmic ray hits per profile



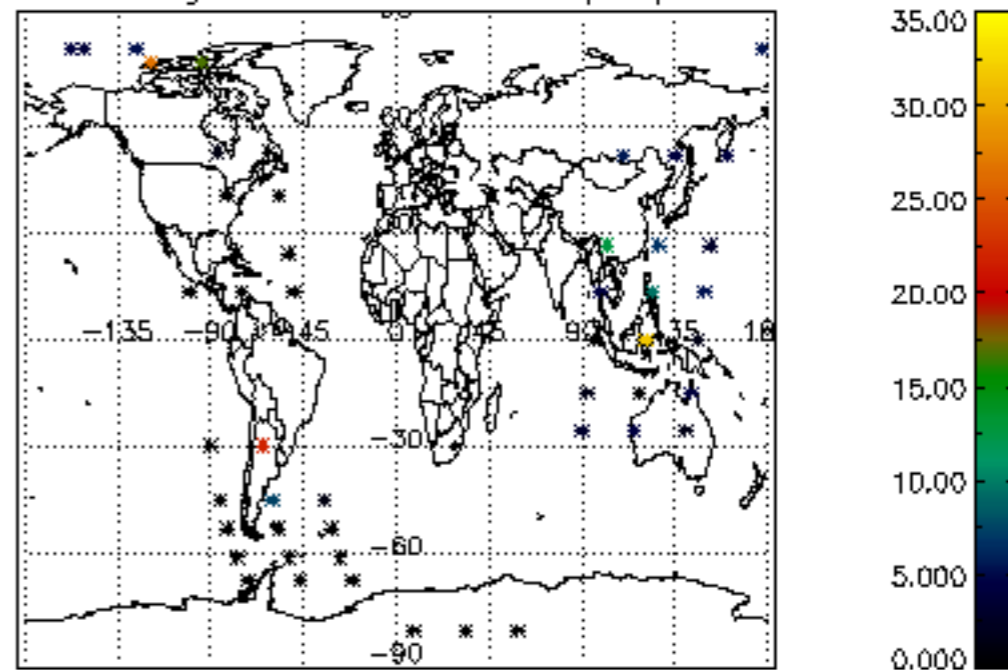
Percentage of datation errors per profile



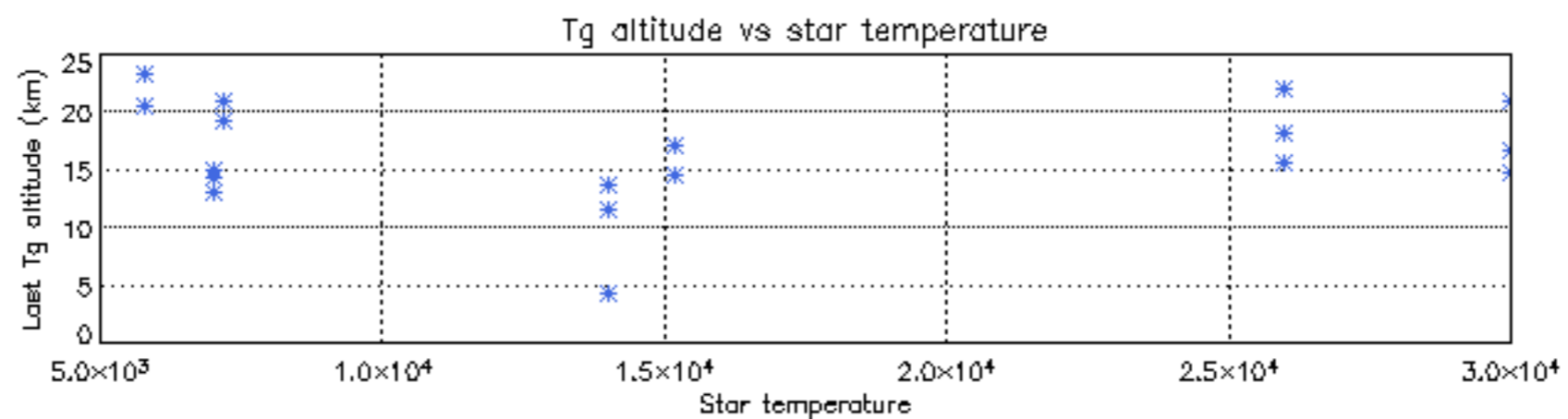
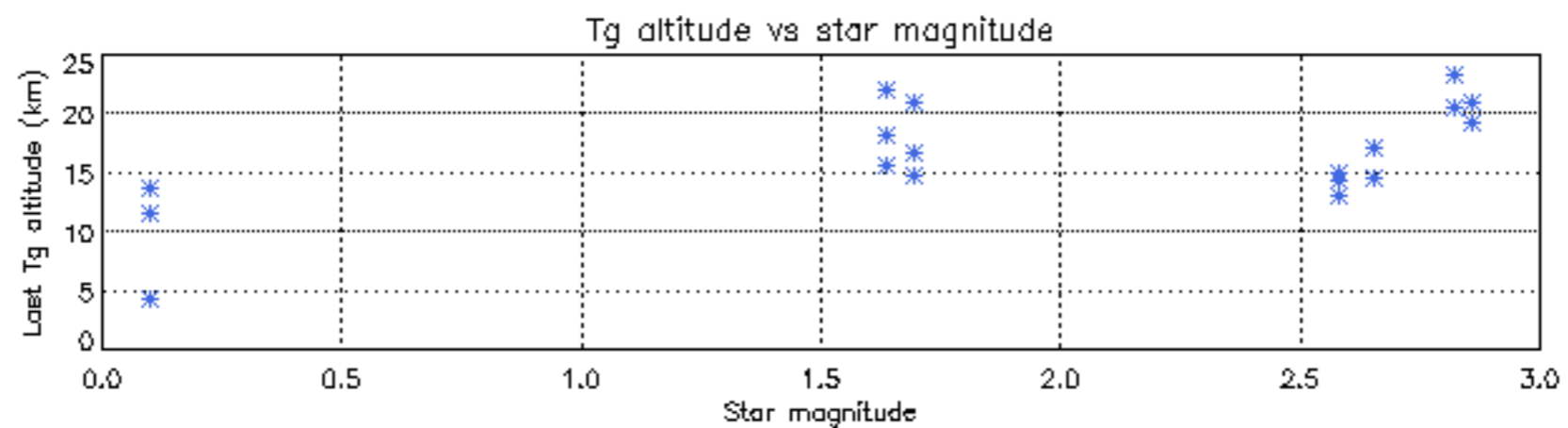
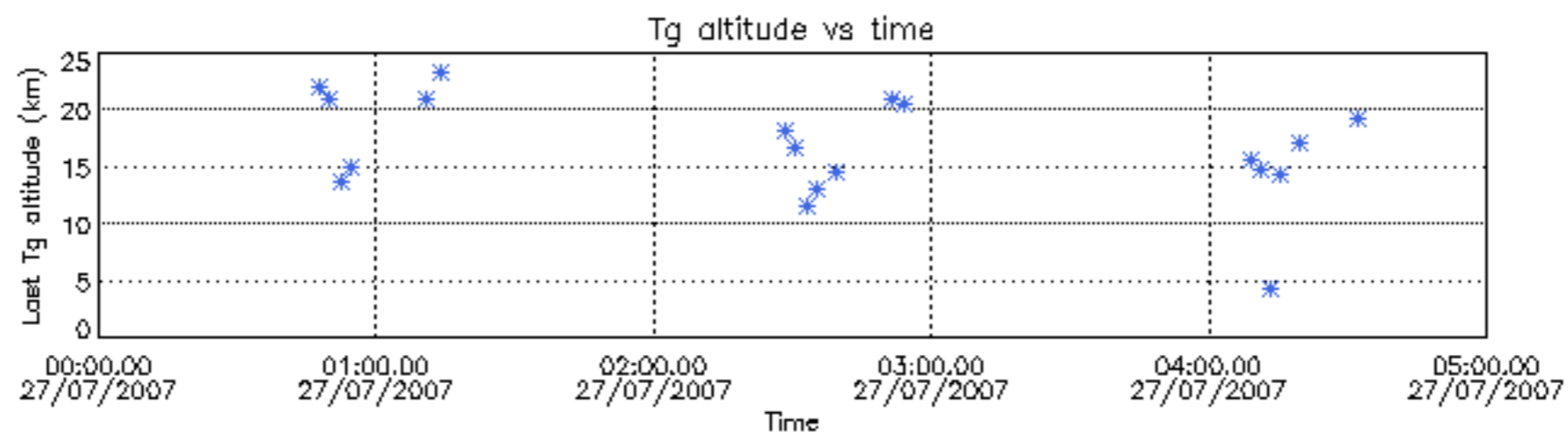
Percentage of star falling outside central band per profile



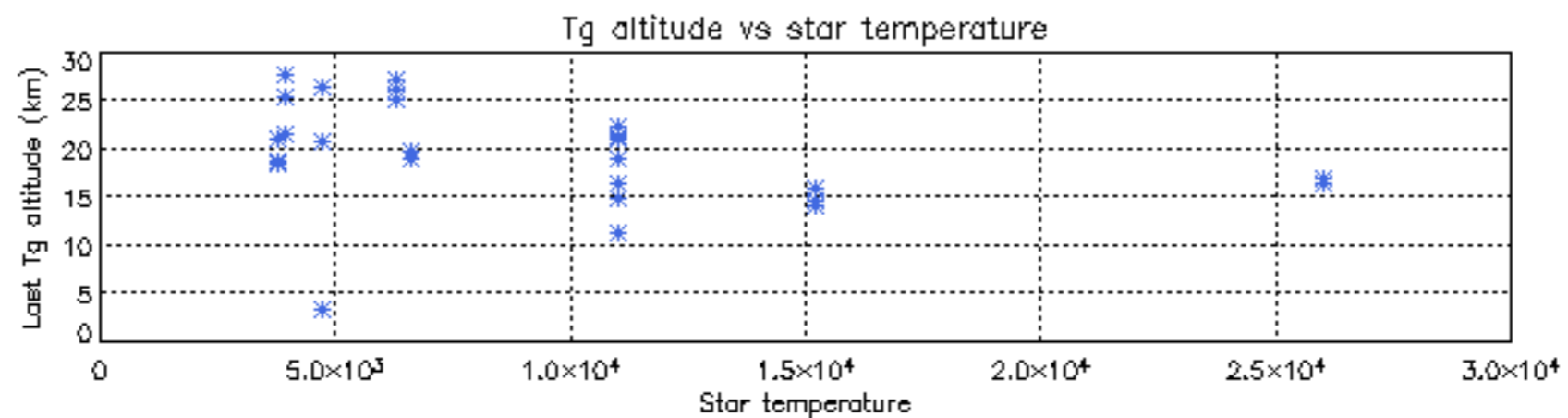
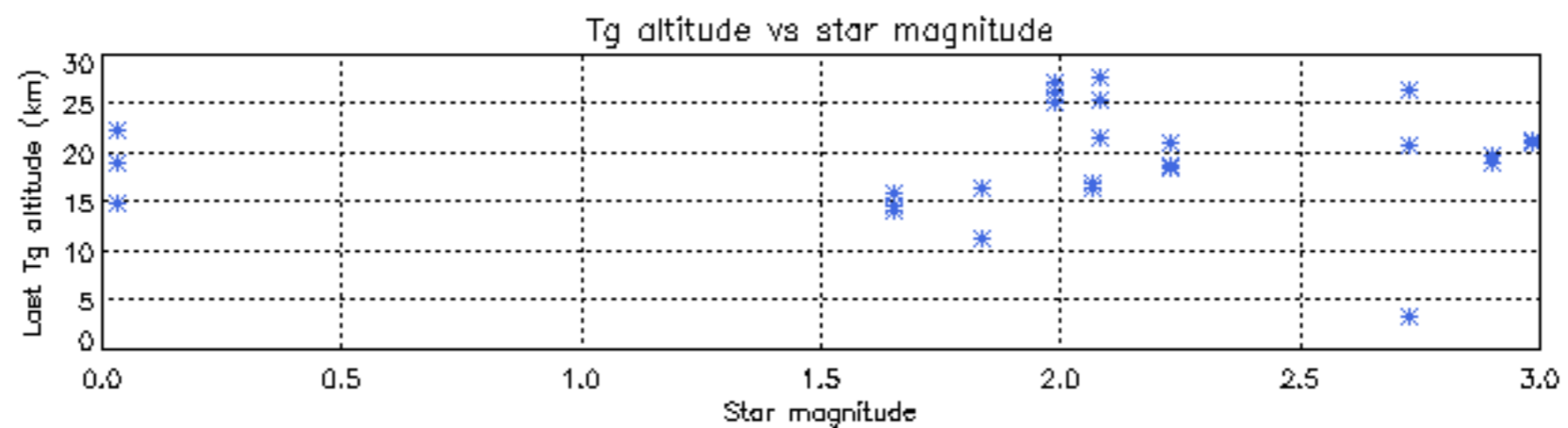
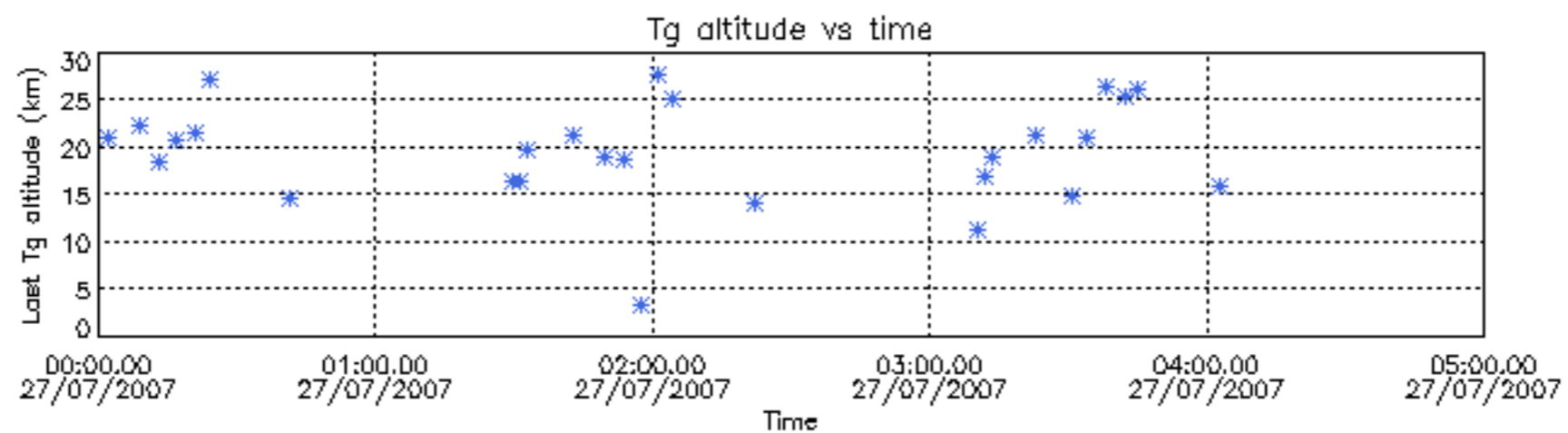
Percentage of saturation errors per profile

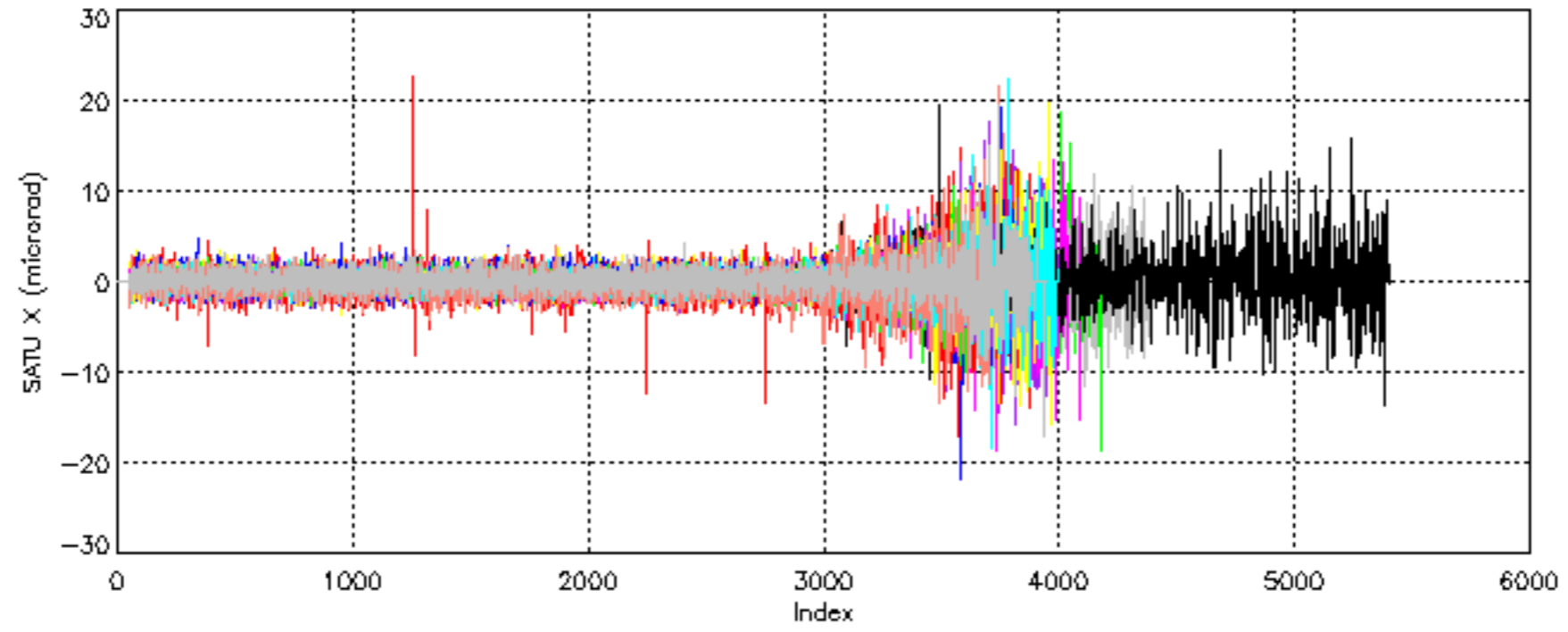


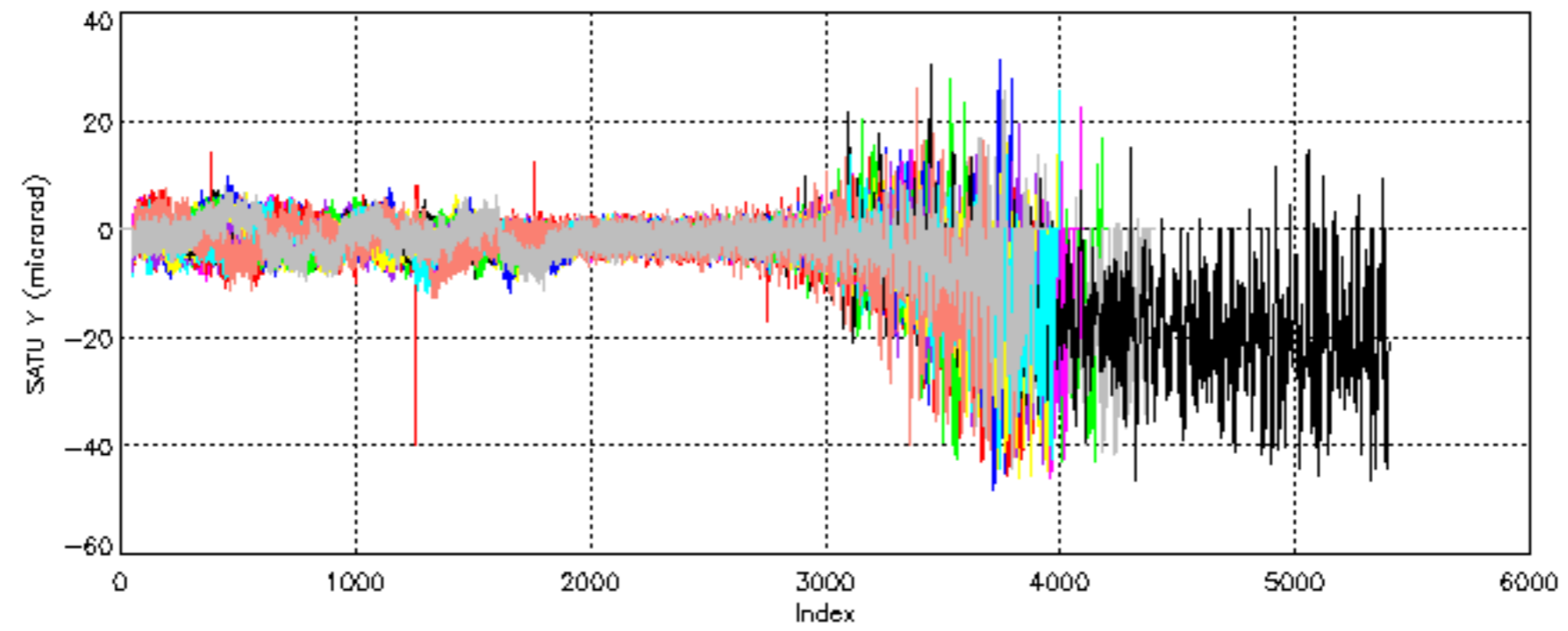
Tangent altitude at which the star is lost

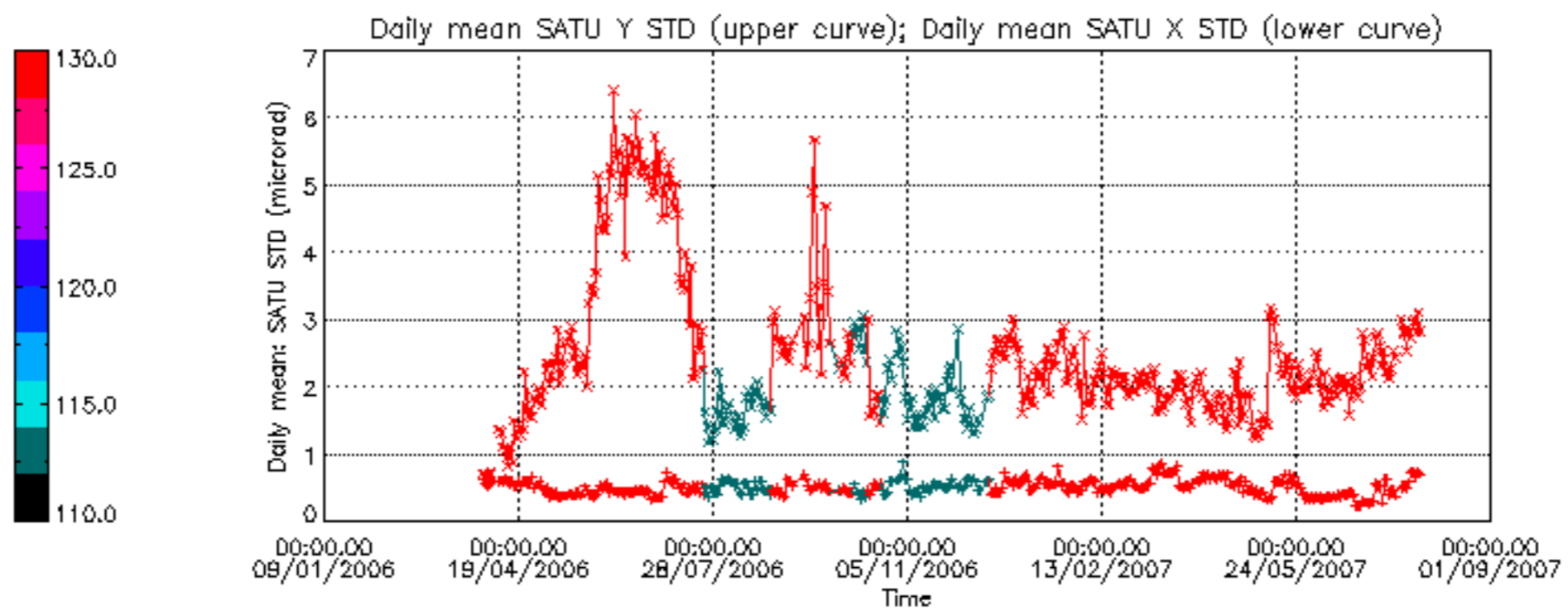


Tangent altitude at which the star is lost









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 3; 33.5; 01-JUL-2007 01:24:15; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;27884
 4; 480.3; 01-JUL-2007 01:31:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;27884
 5; 742.9; 01-JUL-2007 01:36:04; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27884
 6; 1062.1; 01-JUL-2007 01:41:23; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27884
 7; 1170.1; 01-JUL-2007 01:43:11; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;27884
 8; 1269.9; 01-JUL-2007 01:44:51; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;27884
 9; 1354.5; 01-JUL-2007 01:46:16; Dark ; 44.5; 116; 19Del Sgr ; 2.70; 4100;occ; 89; 0;27884
 10; 1642.0; 01-JUL-2007 01:51:03; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;27884
 11; 1982.2; 01-JUL-2007 01:56:43; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;27884
 12; 2122.3; 01-JUL-2007 01:59:04; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;27884
 13; 2283.2; 01-JUL-2007 02:01:44; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;27884
 14; 2447.8; 01-JUL-2007 02:04:29; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;27884
 15; 2810.0; 01-JUL-2007 02:10:31; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27884
 16; 2952.4; 01-JUL-2007 02:12:54; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27884
 17; 3190.9; 01-JUL-2007 02:16:52; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27884
 18; 3445.4; 01-JUL-2007 02:21:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27884

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 3; -836.2; 01-JUL-2007 02:50:21; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;27884
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 6; 481.1; 01-JUL-2007 03:12:18; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27885
 7; 743.5; 01-JUL-2007 03:16:41; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27885
 8; 1062.3; 01-JUL-2007 03:21:59; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27885
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 10; 1270.3; 01-JUL-2007 03:25:27; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;27885
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 12; 1642.3; 01-JUL-2007 03:31:39; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27885
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 16; 2448.0; 01-JUL-2007 03:45:05; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;27885
 17; 2810.0; 01-JUL-2007 03:51:07; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;27885
 18; 2952.5; 01-JUL-2007 03:53:30; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;27885
 19; 3191.1; 01-JUL-2007 03:57:28; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;27885
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 6; 481.7; 01-JUL-2007 04:52:55; Dark ; 44.0; 148; Alp Tuc ; 2.88; 4100;occ; 88; 0;27886
 7; 743.9; 01-JUL-2007 04:57:17; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27886
 8; 1062.5; 01-JUL-2007 05:02:36; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27886
 9; 1170.6; 01-JUL-2007 05:04:24; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27886
 10; 1270.5; 01-JUL-2007 05:06:04; Dark ; 38.5; 25; 35Lam Sco ; 1.62; 28000;occ; 77; 0;27886
 11; 1355.1; 01-JUL-2007 05:07:28; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;27886
 12; 1642.5; 01-JUL-2007 05:12:16; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27886
 13; 1982.2; 01-JUL-2007 05:17:55; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27886
 14; 2122.4; 01-JUL-2007 05:20:16; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;27886
 15; 2283.5; 01-JUL-2007 05:22:57; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;27886
 16; 2448.1; 01-JUL-2007 05:25:41; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;27886
 17; 2809.8; 01-JUL-2007 05:31:43; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;27886
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 19; 3191.3; 01-JUL-2007 05:38:04; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27886
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 5; 35.1; 01-JUL-2007 06:26:04; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;27887
 6; 482.3; 01-JUL-2007 06:33:31; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;27887

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9; 1170.8; 01-JUL-2007 06:45:00; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27887
10; 1270.7; 01-JUL-2007 06:46:40; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;27887
11; 1355.3; 01-JUL-2007 06:48:04; Dark ; 48.5; 116; 19Del Sgr ; 2.70; 4100;occ; 97; 0;27887
12; 1642.7; 01-JUL-2007 06:52:52; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27887
13; 1982.3; 01-JUL-2007 06:58:31; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27887
14; 2122.3; 01-JUL-2007 07:00:51; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;27887
15; 2283.7; 01-JUL-2007 07:03:33; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;27887
16; 2448.2; 01-JUL-2007 07:06:17; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;27887
17; 2809.7; 01-JUL-2007 07:12:19; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27887
18; 2952.5; 01-JUL-2007 07:14:42; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;27887
19; 3191.4; 01-JUL-2007 07:18:40; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27887
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3; 1272.3; 01-JUL-2007 20:11:29; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;27895
4; 1357.1; 01-JUL-2007 20:12:54; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;27895
5; 1643.8; 01-JUL-2007 20:17:40; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27895
6; 1982.2; 01-JUL-2007 20:23:19; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27895
7; 2121.8; 01-JUL-2007 20:25:38; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;27895
8; 2284.8; 01-JUL-2007 20:28:21; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;27895
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10; 2808.4; 01-JUL-2007 20:37:05; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;27895
11; 2952.8; 01-JUL-2007 20:39:29; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27895
12; 3192.5; 01-JUL-2007 20:43:29; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27895
13; 3445.4; 01-JUL-2007 20:47:42; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27895
14; 4131.0; 01-JUL-2007 20:59:08; Bright; 55.0; 35; 33Alp Per ; 1.79; 6250;occ; 110; 0;27895
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4; 487.6; 01-JUL-2007 21:39:00; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;27896
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6; 1064.5; 01-JUL-2007 21:48:37; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;27896
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8; 1272.5; 01-JUL-2007 21:52:05; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;27896
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19; 4130.9; 01-JUL-2007 22:39:43; Bright; 35.0; 35; 33Alp Per ; 1.79; 6250;occ; 70; 0;27896
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