

GOMOS Daily Report 01-FEB-2009

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	05FEB2009 05:34:56
Data source version	GOMOS/5.00
Start time of products	01FEB2009 00:02:31
Stop time of products	01FEB2009 03:11:52
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

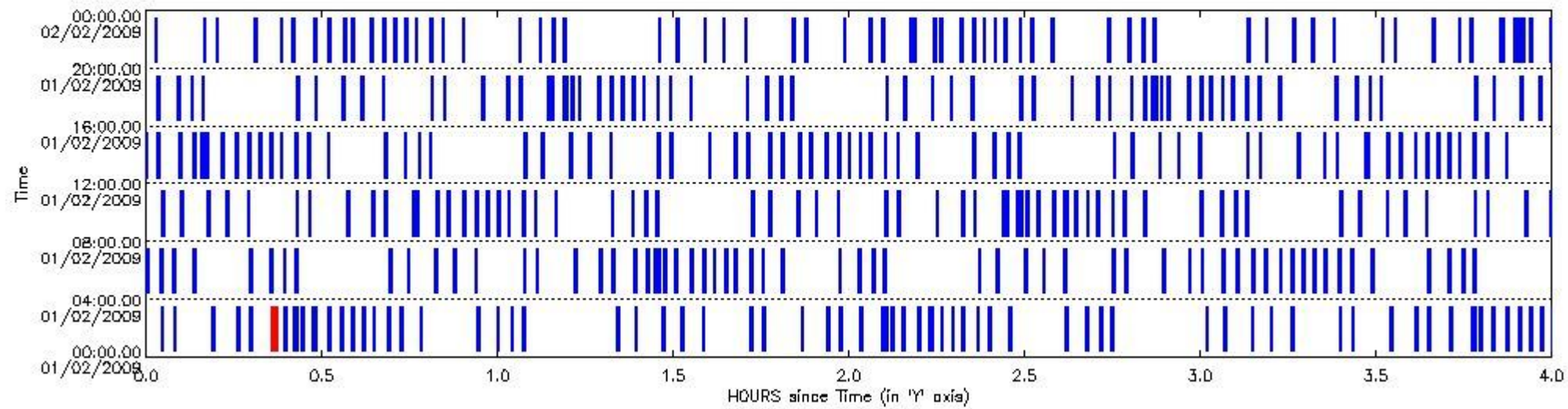
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

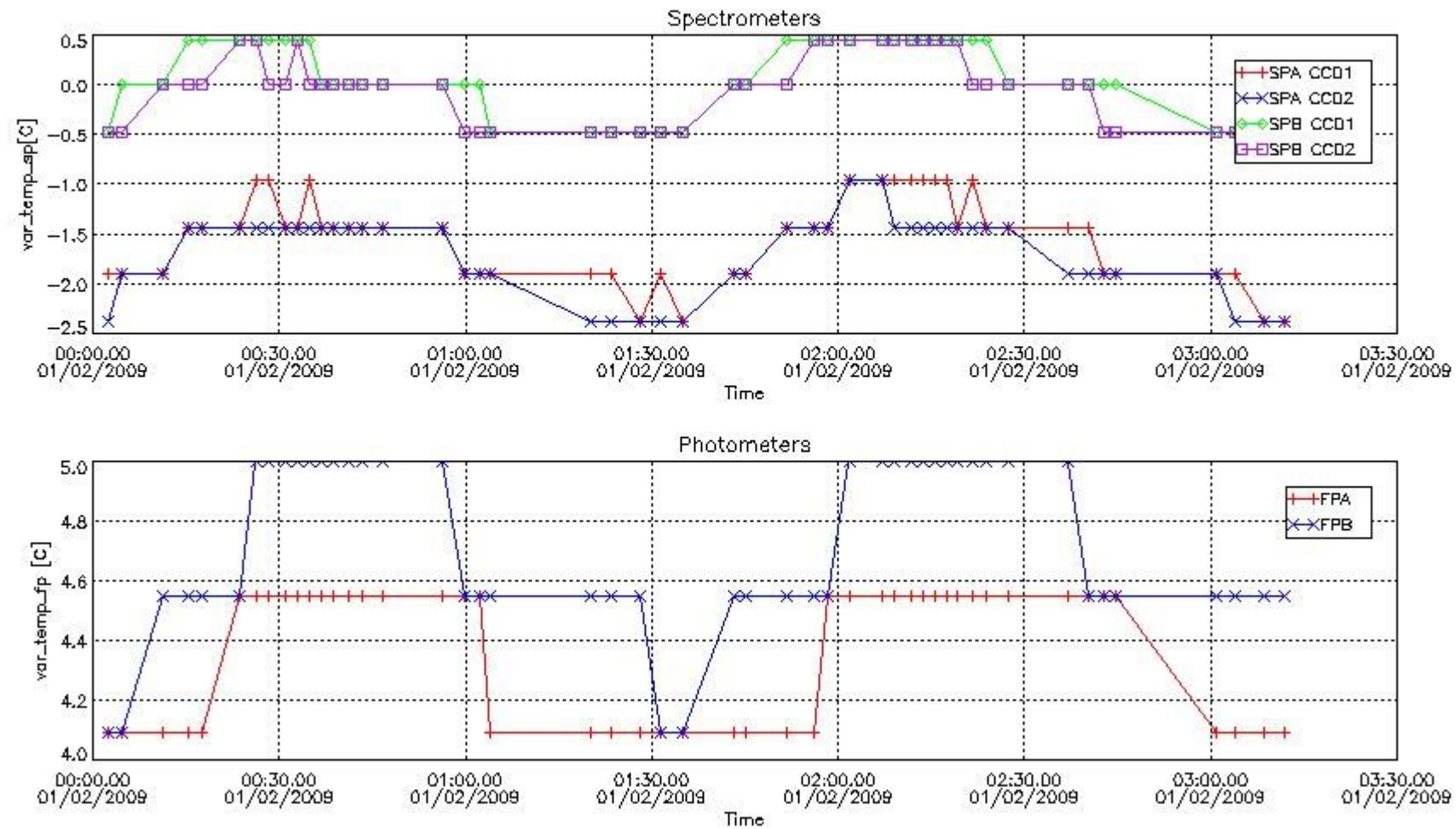
UTC start time	Star name	Star ID	Orbit
01-FEB-2009 00:21:18	GamLup	131	36199

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_1PNPDE20090201_000231_000000272076_00073_36199_0191.N1	01-FEB-2009 00:02:31	Twilight	26.500	59	55Alp Oph	2.0800	8900.0	53	36199	No
2	GOM_TRA_1PNPDE20090201_000439_000000272076_00073_36199_0192.N1	01-FEB-2009 00:04:39	Bright	26.500	126	60Bet Oph	2.7700	4250.0	53	36199	No
3	GOM_TRA_1PNPDE20090201_001109_000000302076_00073_36199_0320.N1	01-FEB-2009 00:11:09	Twilight	29.500	86	35Eta Oph	2.4300	10200.	59	36199	No
4	GOM_TRA_1PNPDE20090201_001528_000000332076_00073_36199_0321.N1	01-FEB-2009 00:15:28	Dark	33.000	16	21Alp Sco	1.0200	3000.0	66	36199	No
5	GOM_TRA_1PNPDE20090201_001739_000000292076_00073_36199_0322.N1	01-FEB-2009 00:17:39	Dark	29.000	40	The Sco	1.8590	7100.0	58	36199	No
6	GOM_TRA_1PNPDE20090201_002329_000000382076_00074_36200_0323.N1	01-FEB-2009 00:23:29	Dark	37.500	109	Bet Lup	2.6770	26000.	75	36200	No
7	GOM_TRA_1PNPDE20090201_002626_000000332076_00074_36200_0324.N1	01-FEB-2009 00:26:26	Dark	32.500	4	Alp1Cen	-0.010000	5800.0	65	36200	No
8	GOM_TRA_1PNPDE20090201_002822_000000362076_00074_36200_0325.N1	01-FEB-2009 00:28:22	Dark	36.000	77	Eps Cen	2.3030	28000.	72	36200	No
9	GOM_TRA_1PNPDE20090201_003101_000000332076_00074_36200_0326.N1	01-FEB-2009 00:31:01	Dark	32.500	12	Alp1Cru	0.77500	30000.	65	36200	No
10	GOM_TRA_1PNPDE20090201_003303_000000372076_00074_36200_0327.N1	01-FEB-2009 00:33:03	Dark	37.000	99	Del Cen	2.5750	26000.	74	36200	No

11	GOM_TRA_1PNPDE20090201_003458_000000302076_00074_36200_0328.N1	01-FEB-2009 00:34:58	Dark	30.000	159	Ups Car	2.9200	7200.0	60	36200	No
12	GOM_TRA_1PNPDE20090201_003653_000000312076_00074_36200_0329.N1	01-FEB-2009 00:36:53	Dark	30.500	71	lot Car	2.2460	7700.0	61	36200	No
13	GOM_TRA_1PNPDE20090201_003838_000000302076_00074_36200_0330.N1	01-FEB-2009 00:38:38	Dark	30.000	46	Del Vel	1.9540	10600.	60	36200	No
14	GOM_TRA_1PNPDE20090201_004109_000000302076_00074_36200_0331.N1	01-FEB-2009 00:41:09	Dark	29.500	34	Gam2Vel	1.7930	23000.	59	36200	No
15	GOM_TRA_1PNPDE20090201_004314_000000302076_00074_36200_0332.N1	01-FEB-2009 00:43:14	Straylight	29.500	70	Zet Pup	2.2460	39000.	59	36200	No
16	GOM_TRA_1PNPDE20090201_004642_000000282076_00074_36200_0333.N1	01-FEB-2009 00:46:42	Straylight	28.000	88	31Eta CMa	2.4480	20000.	56	36200	No
17	GOM_TRA_1PNPDE20090201_005622_000000302076_00074_36200_0334.N1	01-FEB-2009 00:56:22	Twilight	29.500	8	10Alp CMi	0.40000	6500.0	59	36200	No
18	GOM_TRA_1PNPDE20090201_005948_000000302076_00074_36200_0335.N1	01-FEB-2009 00:59:48	Bright	29.500	44	24Gam Gem	1.9280	11000.	59	36200	No
19	GOM_TRA_1PNPDE20090201_010210_000000292076_00074_36200_0336.N1	01-FEB-2009 01:02:10	Bright	29.000	170	27Eps Gem	3.0000	9700.0	58	36200	No
20	GOM_TRA_1PNPDE20090201_010404_000000322076_00074_36200_0337.N1	01-FEB-2009 01:04:04	Bright	32.000	24	66Alp Gem	1.5800	10200.	64	36200	No
21	GOM_TRA_1PNPDE20090201_012016_000000282076_00074_36200_0338.N1	01-FEB-2009 01:20:16	Bright	27.500	49	1Alp UMi	1.9900	6300.0	55	36200	No
22	GOM_TRA_1PNPDE20090201_012321_000000302076_00074_36200_0339.N1	01-FEB-2009 01:23:21	Bright	30.000	60	7Bet UMi	2.0810	3950.0	60	36200	No
23	GOM_TRA_1PNPDE20090201_012804_000000292076_00074_36200_0340.N1	01-FEB-2009 01:28:04	Twilight	28.500	119	14Eta Dra	2.7270	4700.0	57	36200	No
24	GOM_TRA_1PNPDE20090201_013116_000000262076_00074_36200_0341.N1	01-FEB-2009 01:31:16	Twilight	25.500	130	23Bet Dra	2.7990	5800.0	51	36200	No
25	GOM_TRA_1PNPDE20090201_013454_000000242076_00074_36200_0342.N1	01-FEB-2009 01:34:54	Twilight	24.000	5	3Alp Lyr	0.033000	11000.	48	36200	No
26	GOM_TRA_1PNPDE20090201_014307_000000272076_00074_36200_0343.N1	01-FEB-2009 01:43:07	Twilight	26.500	59	55Alp Oph	2.0800	8900.0	53	36200	No
27	GOM_TRA_1PNPDE20090201_014515_000000262076_00074_36200_0344.N1	01-FEB-2009 01:45:15	Twilight	26.000	126	60Bet Oph	2.7700	4250.0	52	36200	No
28	GOM_TRA_1PNPDE20090201_015145_000000292076_00074_36200_0464.N1	01-FEB-2009 01:51:45	Twilight	29.000	86	35Eta Oph	2.4300	10200.	58	36200	No
29	GOM_TRA_1PNPDE20090201_015604_000000332076_00074_36200_0465.N1	01-FEB-2009 01:56:04	Dark	32.500	16	21Alp Sco	1.0200	3000.0	65	36200	No
30	GOM_TRA_1PNPDE20090201_015815_000000282076_00074_36200_0466.N1	01-FEB-2009 01:58:15	Dark	28.000	40	The Sco	1.8590	7100.0	56	36200	No
31	GOM_TRA_1PNPDE20090201_020152_000000352076_00074_36200_0467.N1	01-FEB-2009 02:01:52	Dark	34.500	131	Gam Lup	2.8000	26000.	69	36200	No
32	GOM_TRA_1PNPDE20090201_020702_000000322076_00075_36201_0468.N1	01-FEB-2009 02:07:02	Dark	32.000	4	Alp1Cen	-0.010000	5800.0	64	36201	No
33	GOM_TRA_1PNPDE20090201_020900_000000352076_00075_36201_0469.N1	01-FEB-2009 02:09:00	Dark	34.500	77	Eps Cen	2.3030	28000.	69	36201	No
34	GOM_TRA_1PNPDE20090201_021138_000000322076_00075_36201_0470.N1	01-FEB-2009 02:11:38	Dark	31.500	12	Alp1Cru	0.77500	30000.	63	36201	No
35	GOM_TRA_1PNPDE20090201_021340_000000362076_00075_36201_0471.N1	01-FEB-2009 02:13:40	Dark	36.000	99	Del Cen	2.5750	26000.	72	36201	No
36	GOM_TRA_1PNPDE20090201_021535_000000292076_00075_36201_0472.N1	01-FEB-2009 02:15:35	Dark	29.000	159	Ups Car	2.9200	7200.0	58	36201	No
37	GOM_TRA_1PNPDE20090201_021730_000000292076_00075_36201_0473.N1	01-FEB-2009 02:17:30	Dark	29.000	71	lot Car	2.2460	7700.0	58	36201	No
38	GOM_TRA_1PNPDE20090201_021914_000000292076_00075_36201_0474.N1	01-FEB-2009 02:19:14	Dark	29.000	46	Del Vel	1.9540	10600.	58	36201	No
39	GOM_TRA_1PNPDE20090201_022146_000000292076_00075_36201_0475.N1	01-FEB-2009 02:21:46	Dark	28.500	34	Gam2Vel	1.7930	23000.	57	36201	No
40	GOM_TRA_1PNPDE20090201_022351_000000292076_00075_36201_0476.N1	01-FEB-2009 02:23:51	Straylight	28.500	70	Zet Pup	2.2460	39000.	57	36201	No
41	GOM_TRA_1PNPDE20090201_022717_000000282076_00075_36201_0477.N1	01-FEB-2009 02:27:17	Straylight	28.000	88	31Eta CMa	2.4480	20000.	56	36201	No
42	GOM_TRA_1PNPDE20090201_023658_000000302076_00075_36201_0478.N1	01-FEB-2009 02:36:58	Twilight	29.500	8	10Alp CMi	0.40000	6500.0	59	36201	No
43	GOM_TRA_1PNPDE20090201_024025_000000292076_00075_36201_0479.N1	01-FEB-2009 02:40:25	Bright	28.500	44	24Gam Gem	1.9280	11000.	57	36201	No
44	GOM_TRA_1PNPDE20090201_024247_000000292076_00075_36201_0480.N1	01-FEB-2009 02:42:47	Bright	28.500	170	27Eps Gem	3.0000	9700.0	57	36201	No
45	GOM_TRA_1PNPDE20090201_024440_000000312076_00075_36201_0481.N1	01-FEB-2009 02:44:40	Bright	30.500	24	66Alp Gem	1.5800	10200.	61	36201	No
46	GOM_TRA_1PNPDE20090201_030052_000000272076_00075_36201_0482.N1	01-FEB-2009 03:00:52	Bright	27.000	49	1Alp UMi	1.9900	6300.0	54	36201	No
47	GOM_TRA_1PNPDE20090201_030357_000000292076_00075_36201_0617.N1	01-FEB-2009 03:03:57	Bright	28.500	60	7Bet UMi	2.0810	3950.0	57	36201	No
48	GOM_TRA_1PNPDE20090201_030840_000000272076_00075_36201_0618.N1	01-FEB-2009 03:08:40	Twilight	27.000	119	14Eta Dra	2.7270	4700.0	54	36201	No
49	GOM_TRA_1PNPDE20090201_031152_000000252076_00075_36201_0619.N1	01-FEB-2009 03:11:52	Twilight	25.000	130	23Bet Dra	2.7990	5800.0	50	36201	No

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



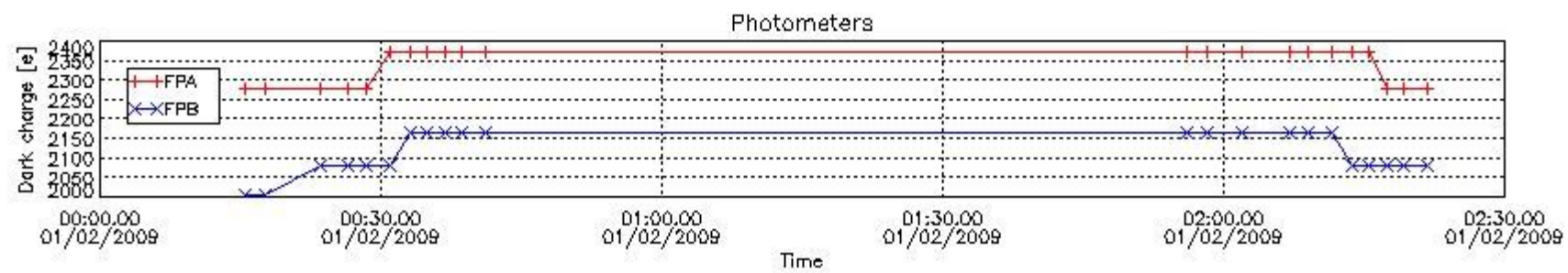
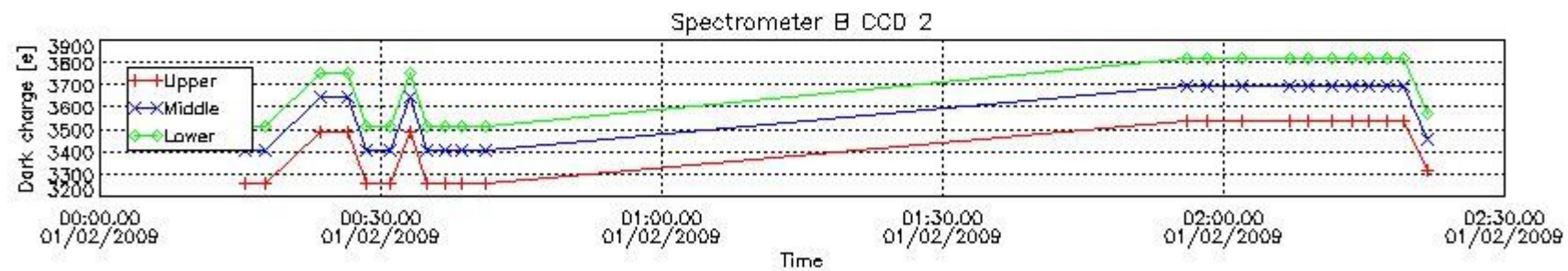
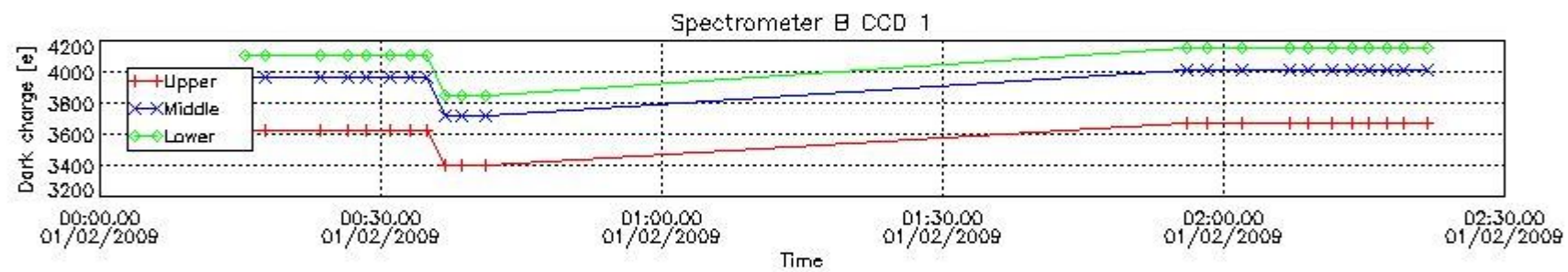
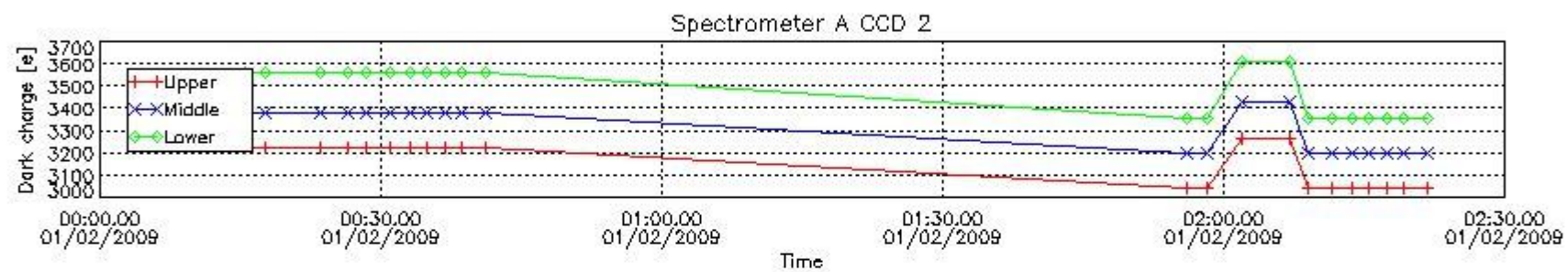
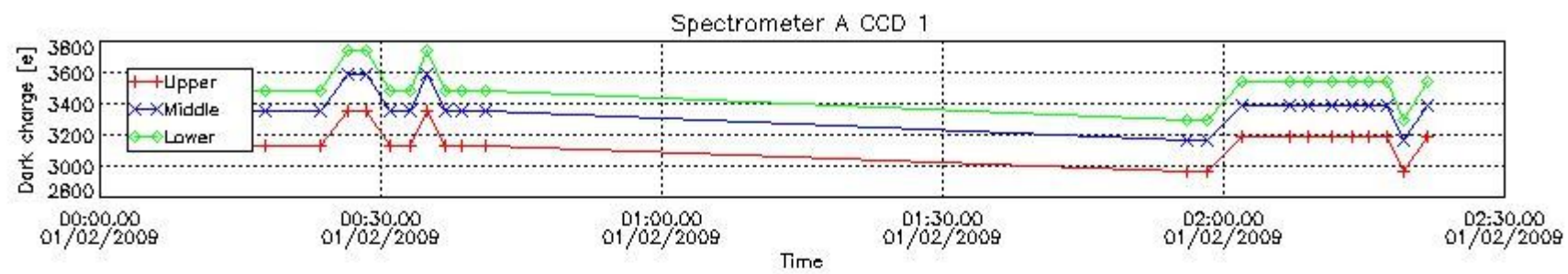
4. Overview of dark signal processing per product

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



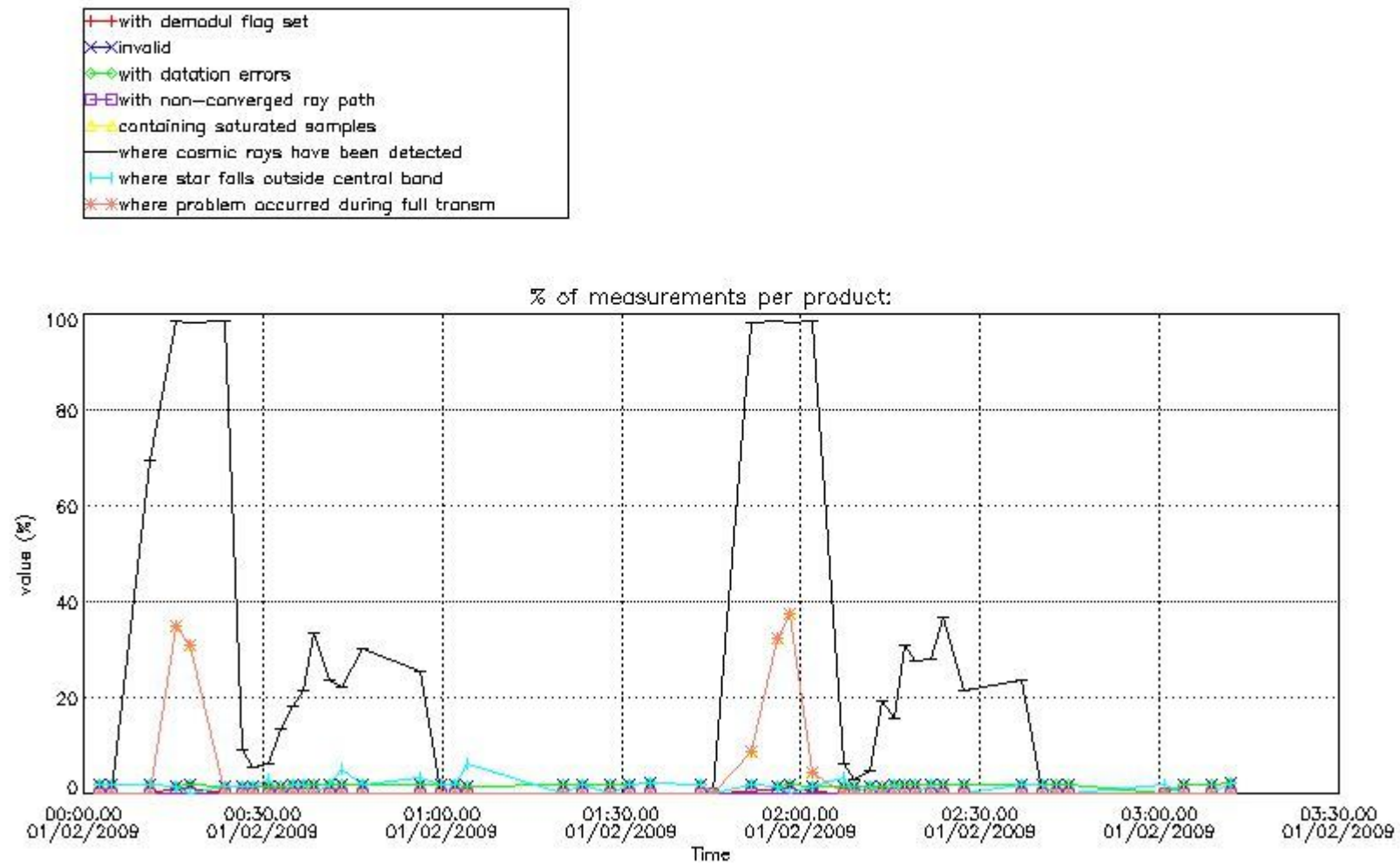
5. Demodulation flag and quality information monitoring

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.

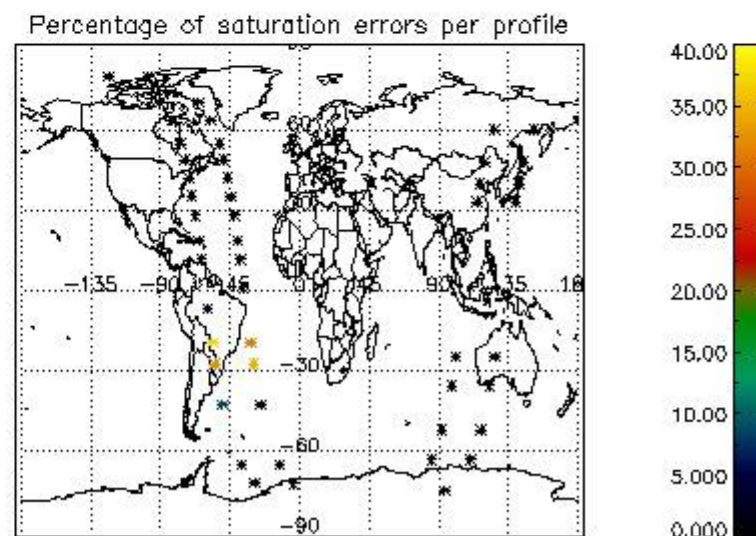
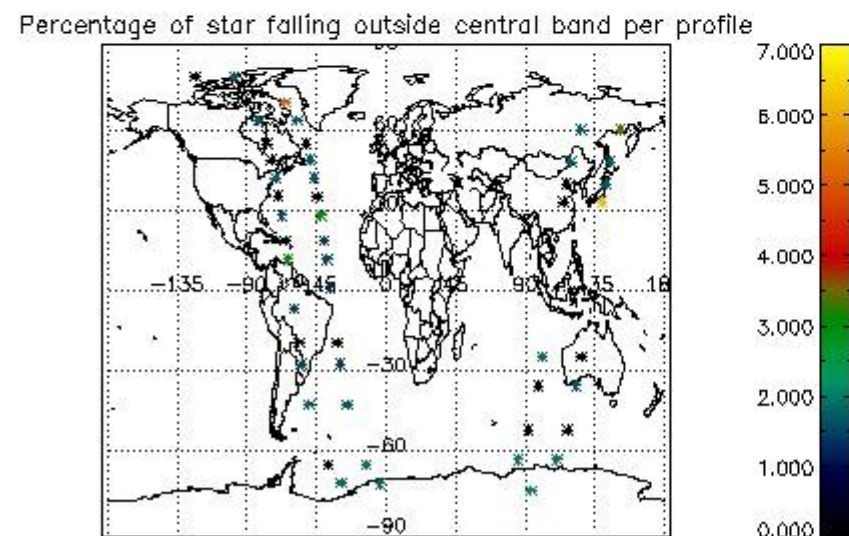
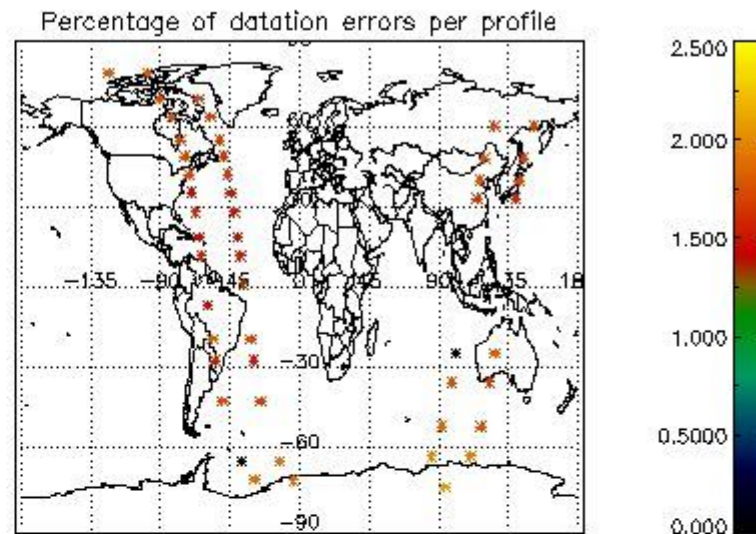
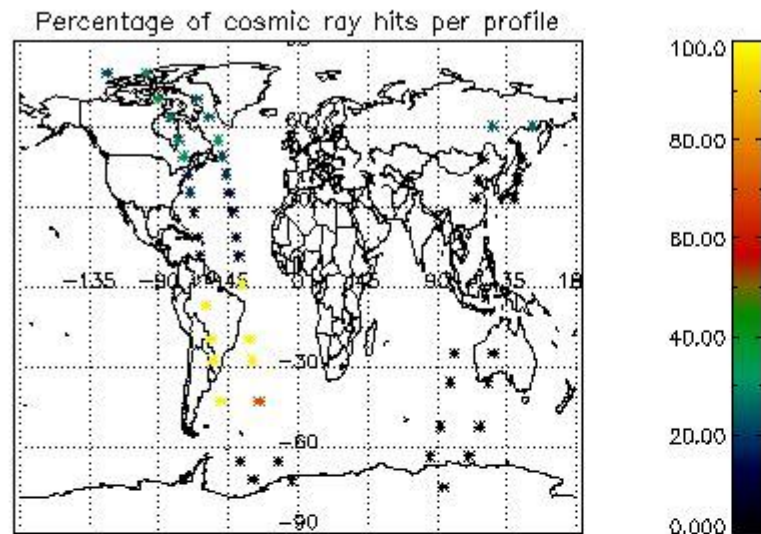
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.6939 %
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)



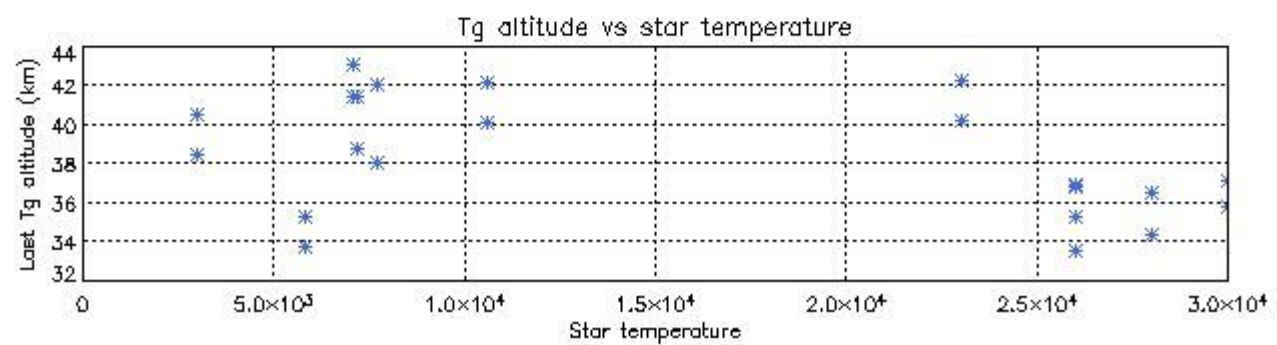
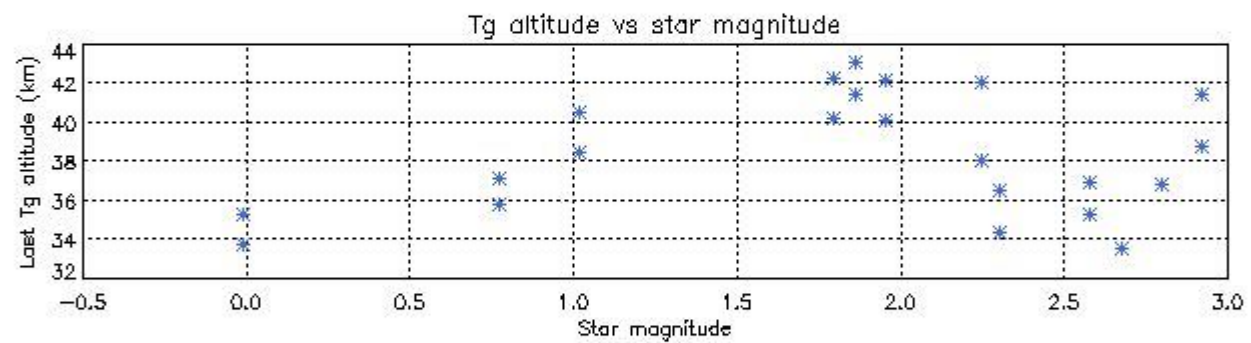
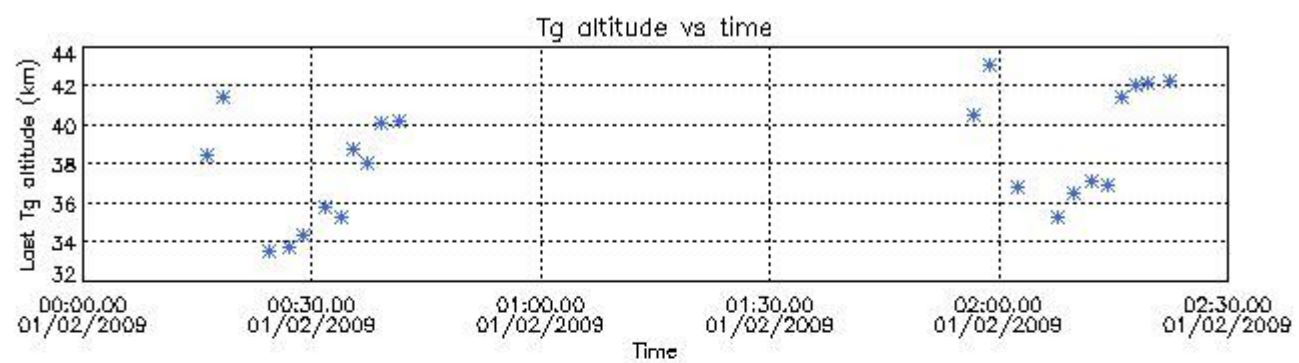
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	38.366	42.201	NaN
St. deviation:	3.0152	5.2020	NaN
Maximum:	43.063	50.544	NaN
Minimum:	33.581	33.949	NaN
Number of data:	22.000	11.000	NaN

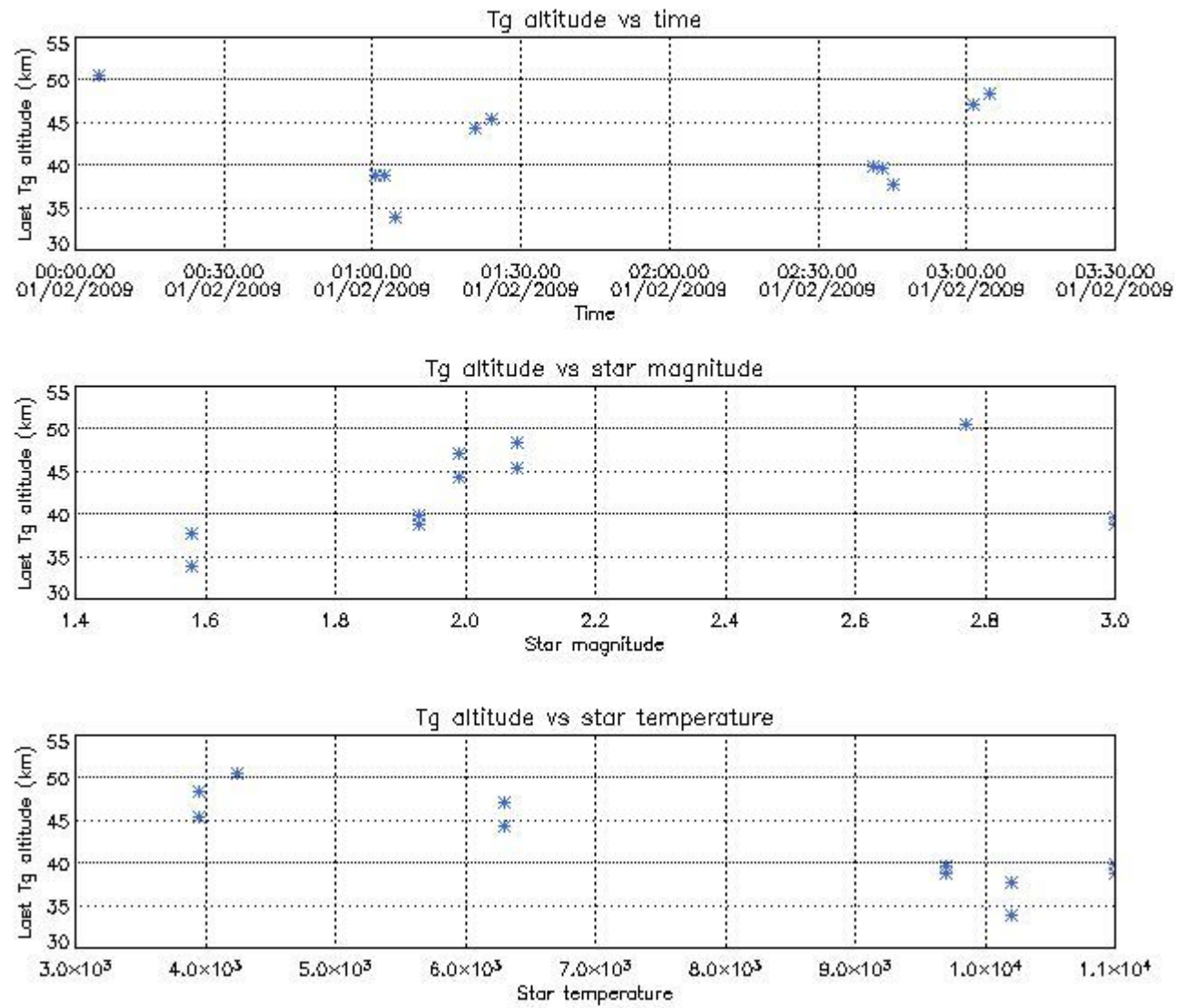
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

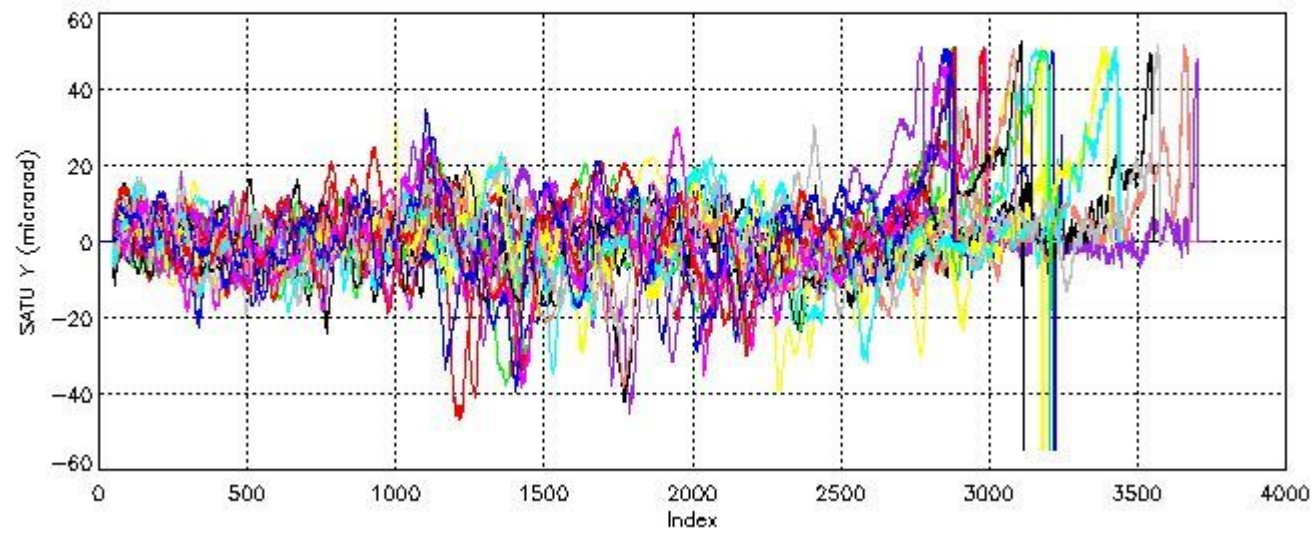
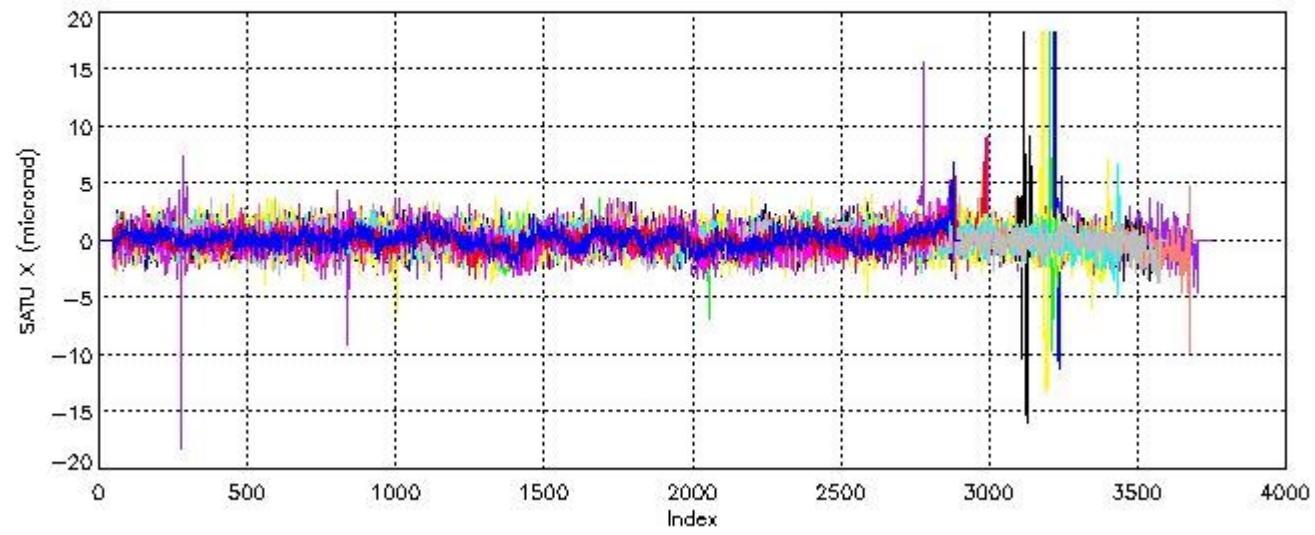


7. Star Acquisition and Tracking Unit (SATU)

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:	0.13652	0.13326	0.097481	1.0306
St. deviation:	0.62610	5.8509	0.58170	6.7624
Maximum:	7.3000	21.100	3.1000	25.500
Minimum:	-18.300	-24.000	-2.6000	-20.200

Number of data:	20800.	20800.	9550.0	9550.0
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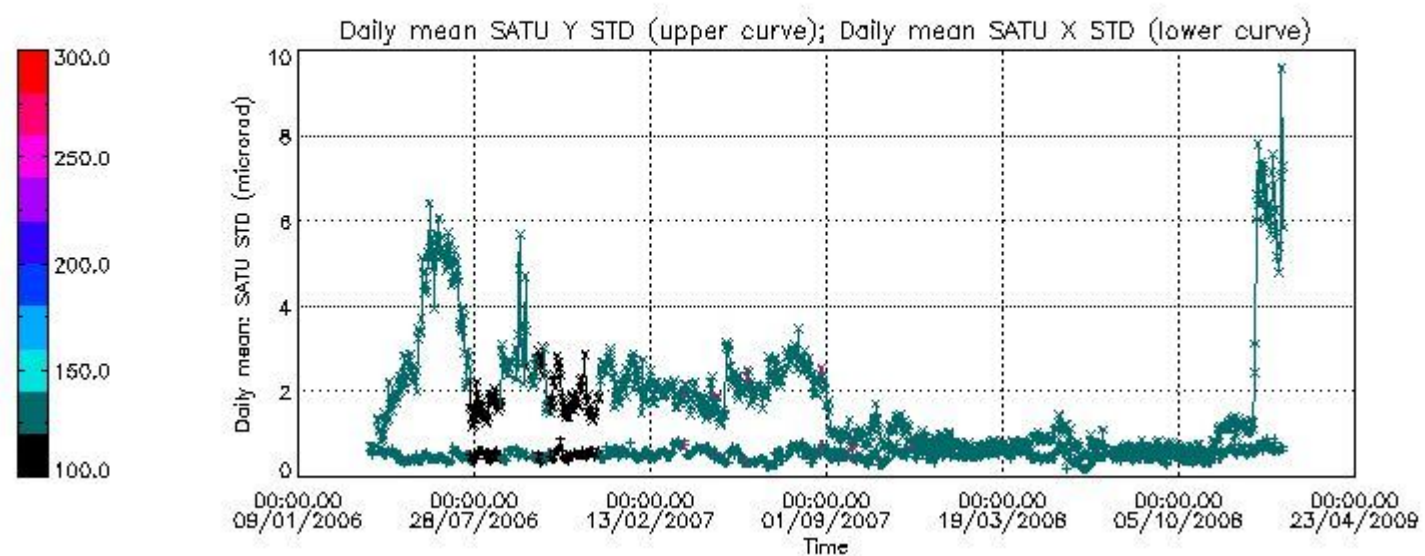
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

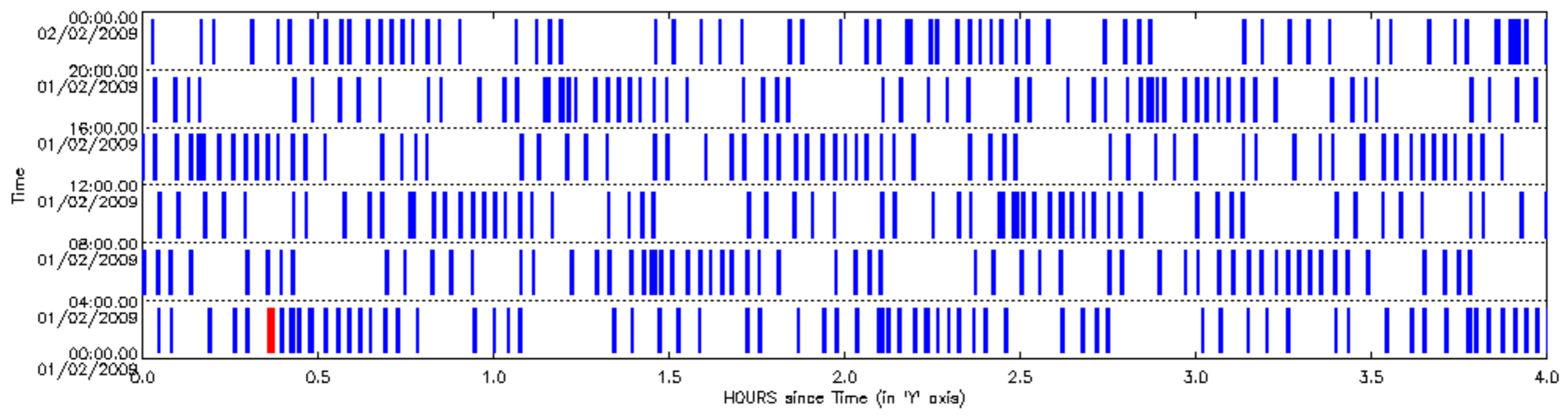
Lower curve: STD of SATU X axis

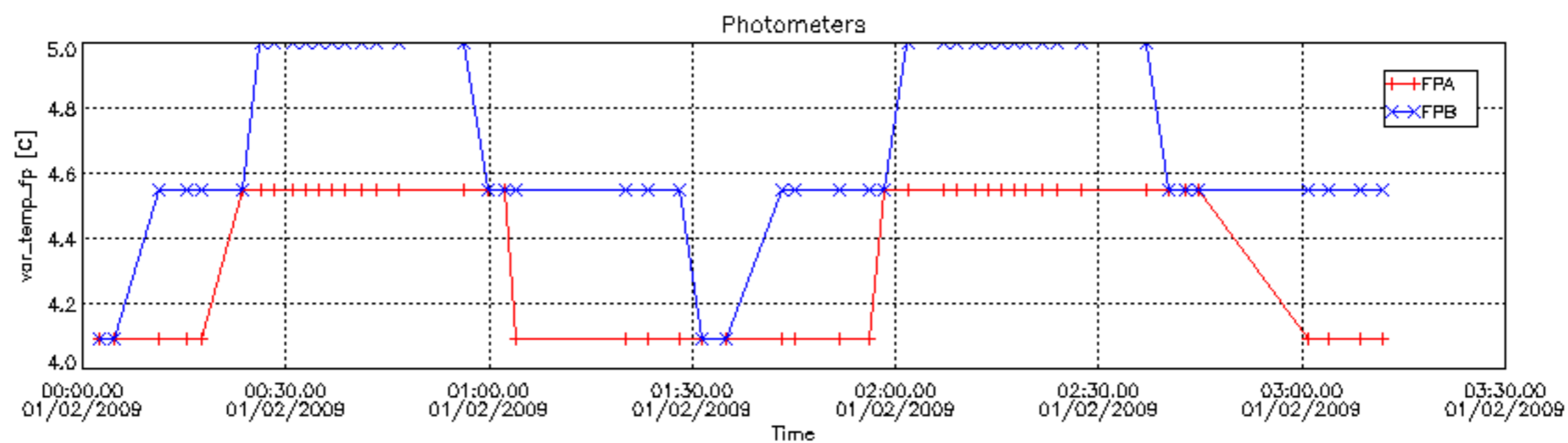
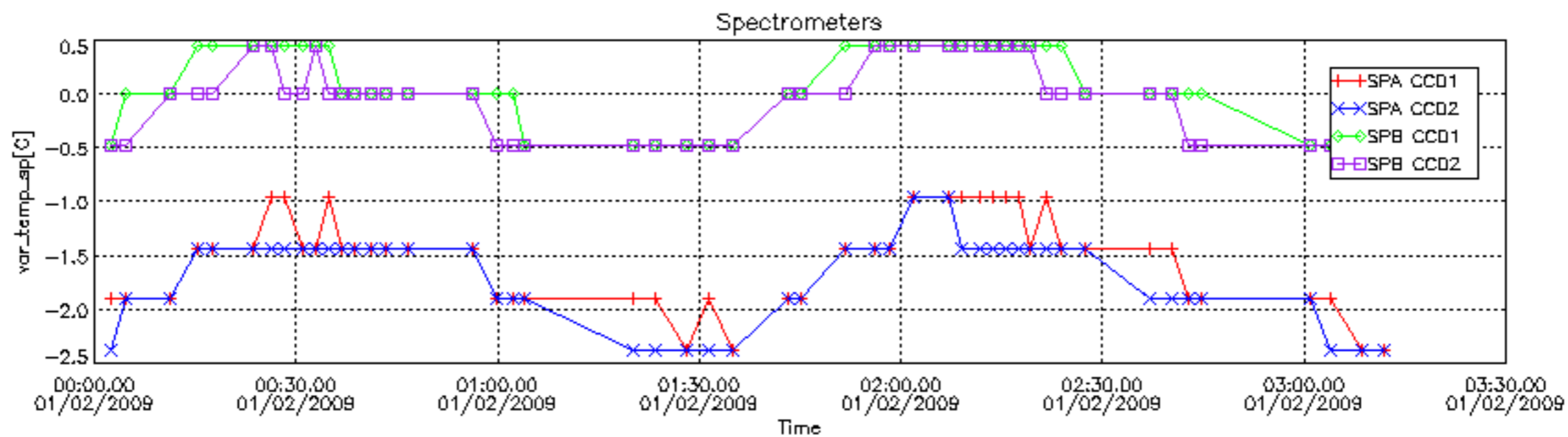


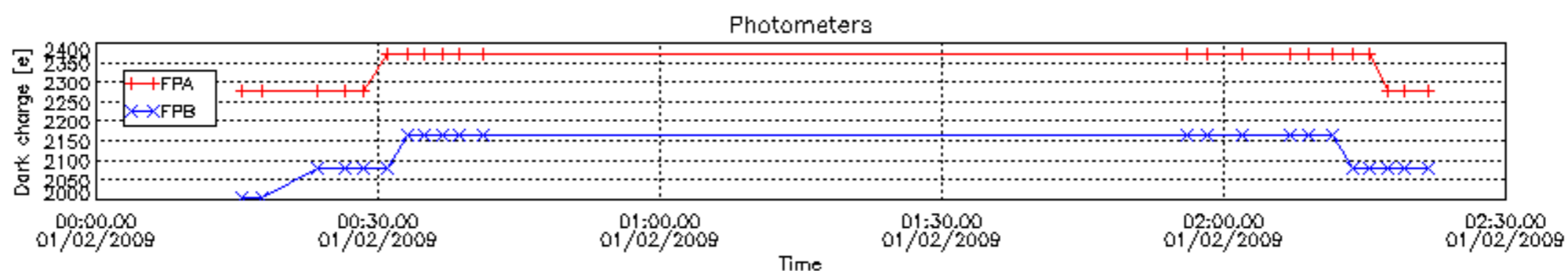
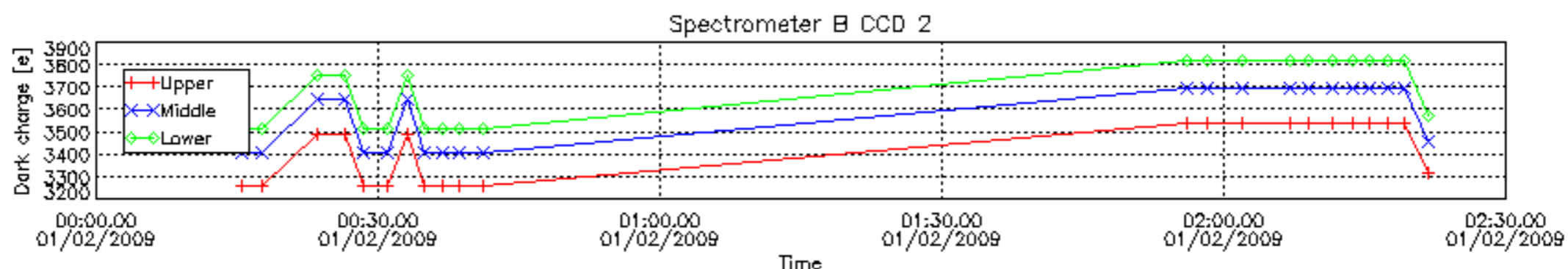
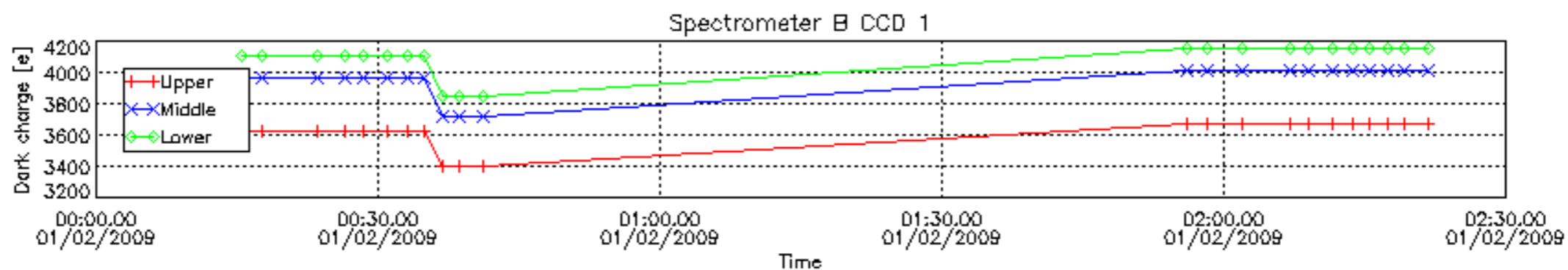
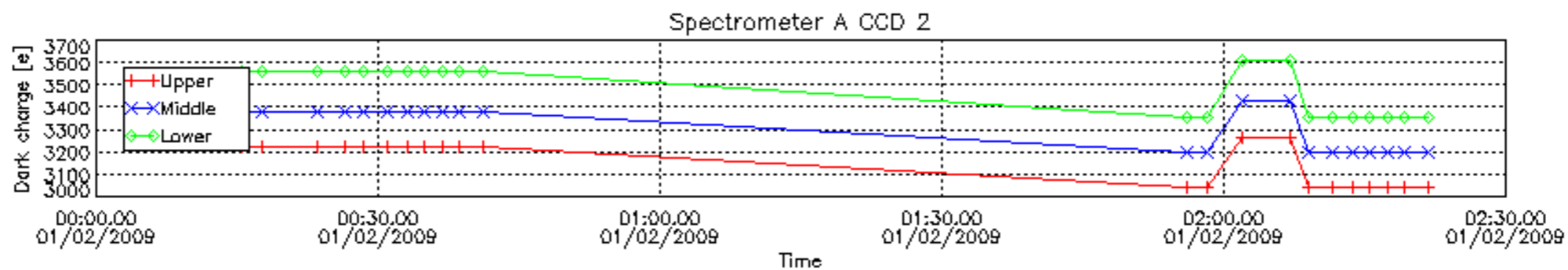
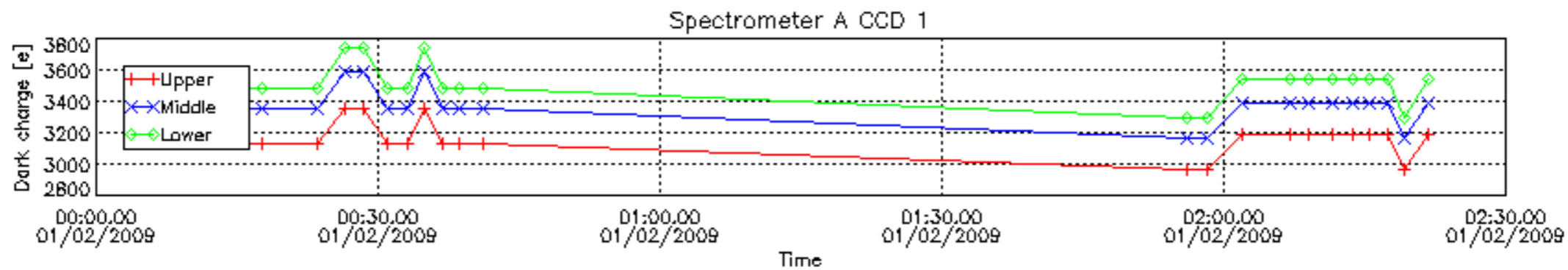
8. Auxiliary Data Files used for the production reported in section 2.4

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.

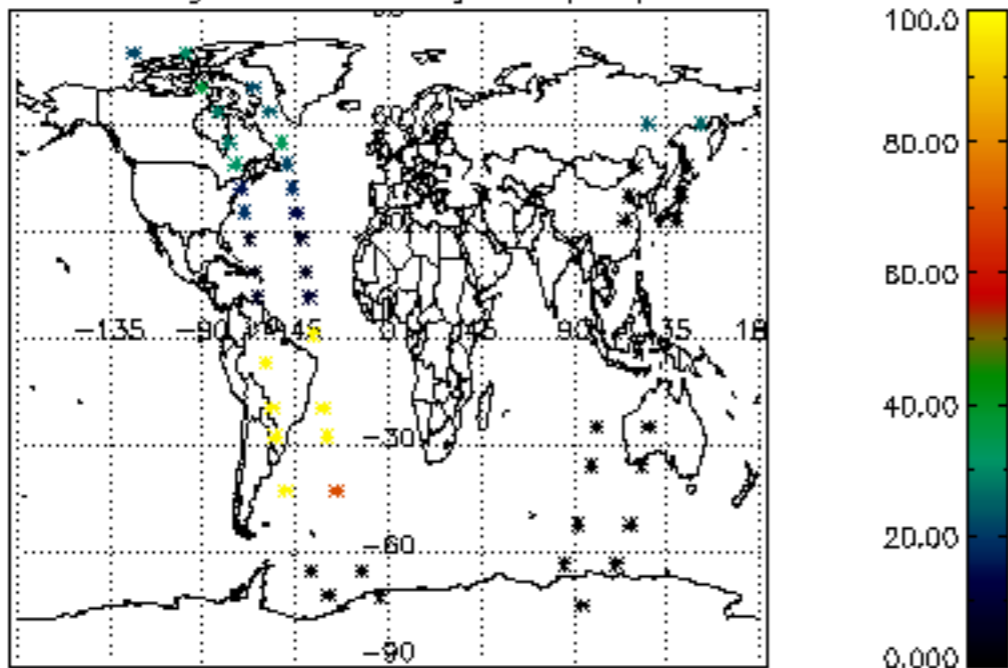
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-FEB-2009 00:02:31
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090123_085712_20090120_000000_20100101_000000	1	01-FEB-2009 00:02:31
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-FEB-2009 00:02:31
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-FEB-2009 00:02:31
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-FEB-2009 00:02:31
ECMWF_FILE	AUX_ECF_AXNECM20090131_064113_20090131_210000_20090201_090000	1	01-FEB-2009 00:02:31
ECMWF_FILE	AUX_ECF_AXNECM20090131_184112_20090201_030000_20090201_150000	47	01-FEB-2009 03:03:57
OPTIONAL_ECMWF_FILE	MISSING	1	01-FEB-2009 00:02:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090131_204431_000060572076_00071_36197_7273.N1	1	01-FEB-2009 00:02:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090131_222528_000057382076_00072_36198_7274.N1	3	01-FEB-2009 00:11:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090201_000625_000057382076_00073_36199_7275.N1	28	01-FEB-2009 01:51:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090201_014722_000041442076_00074_36200_7276.N1	47	01-FEB-2009 03:03:57



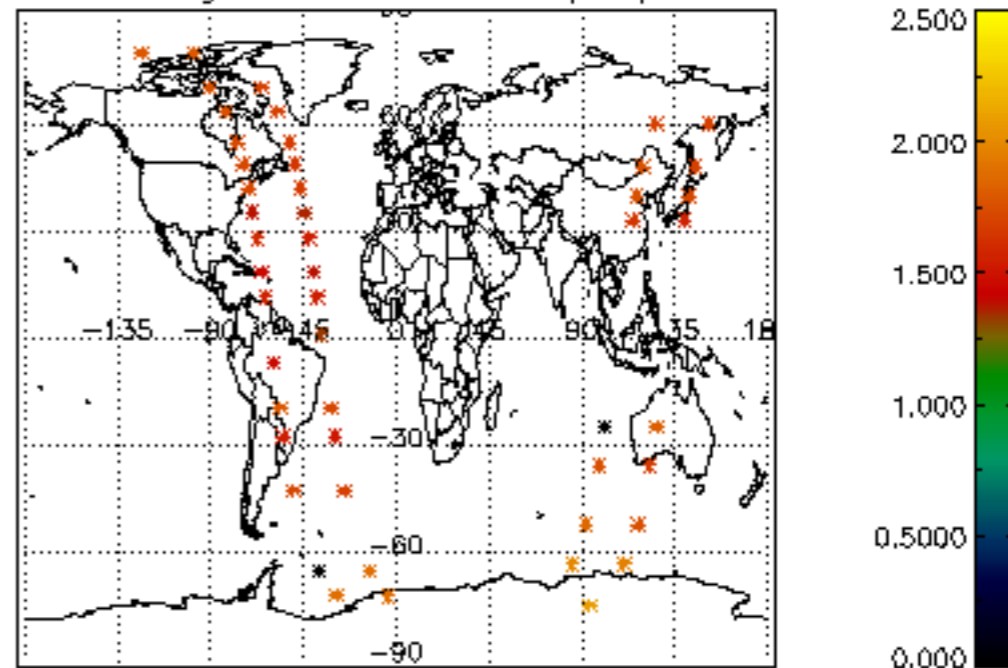




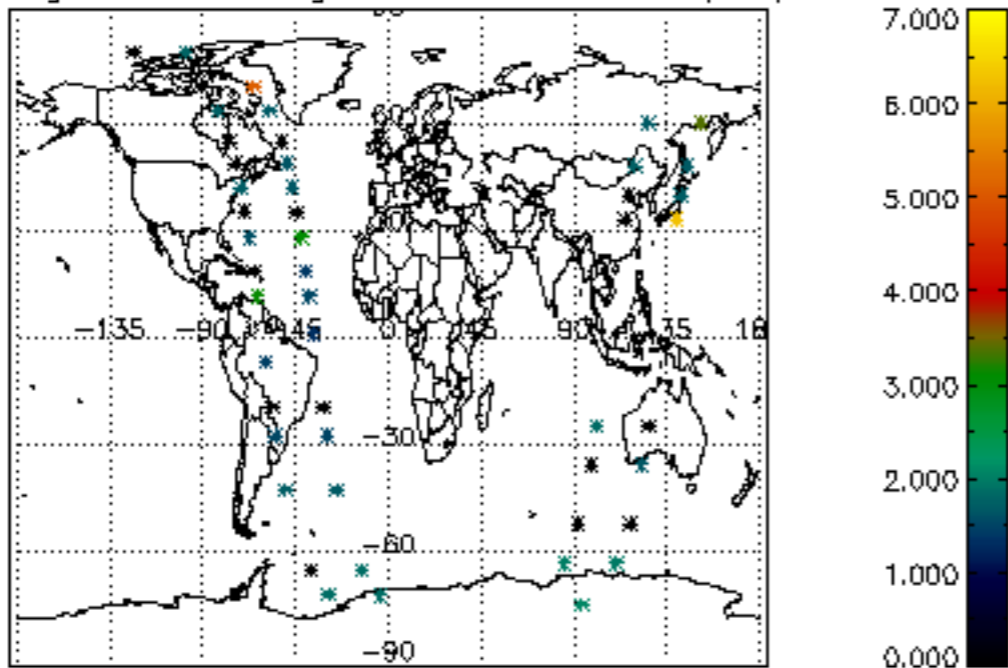
Percentage of cosmic ray hits per profile



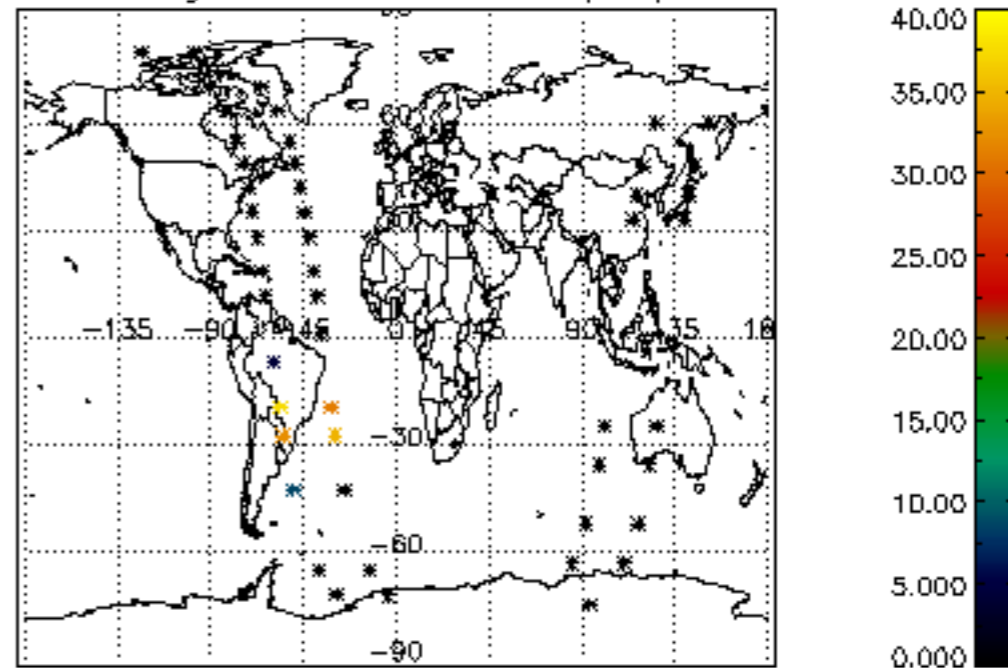
Percentage of datation errors per profile



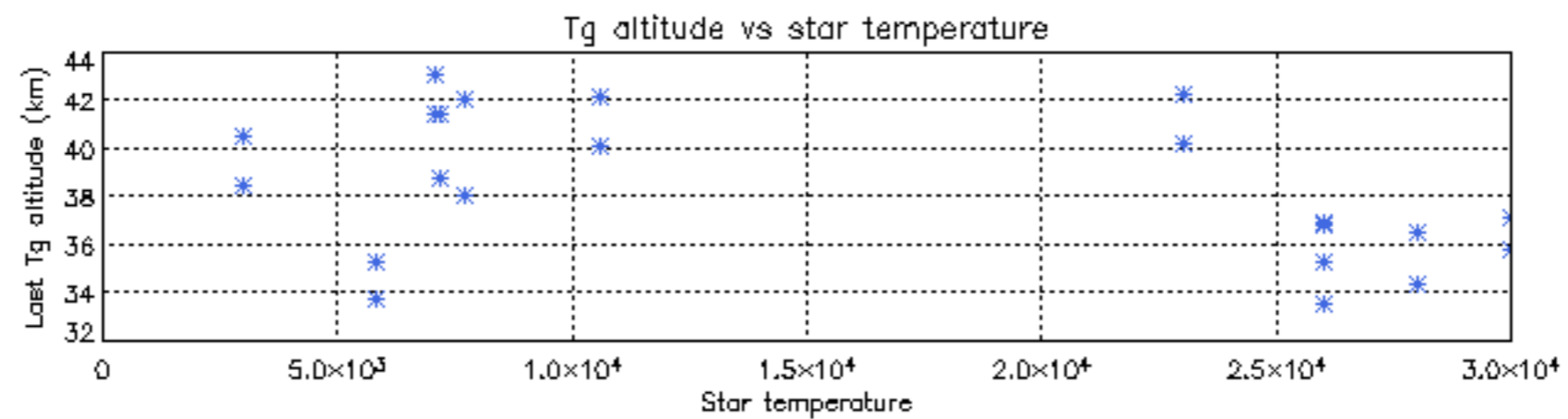
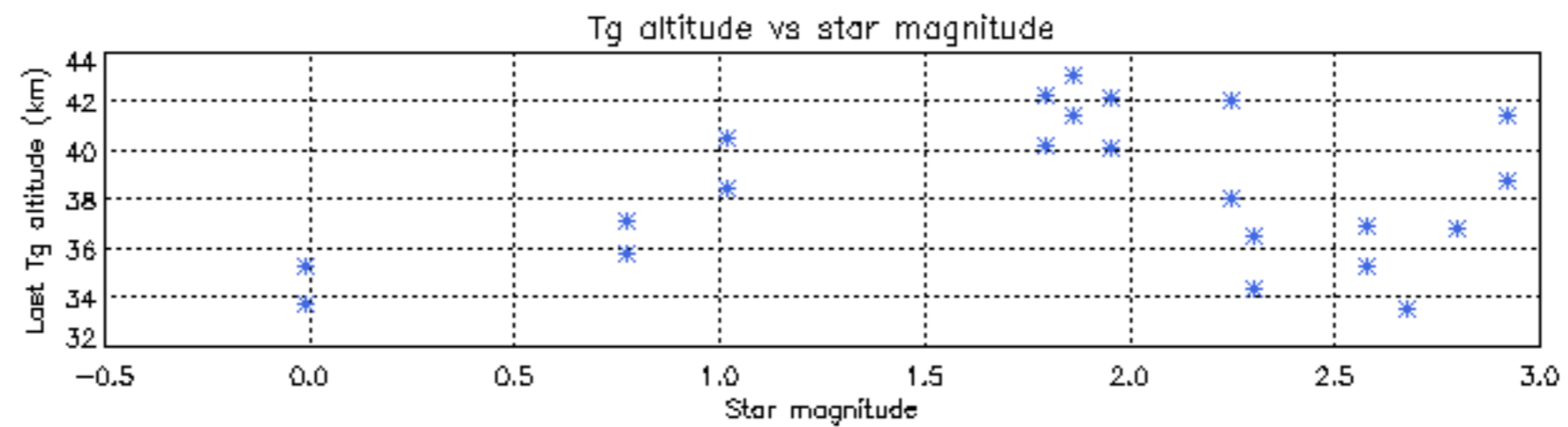
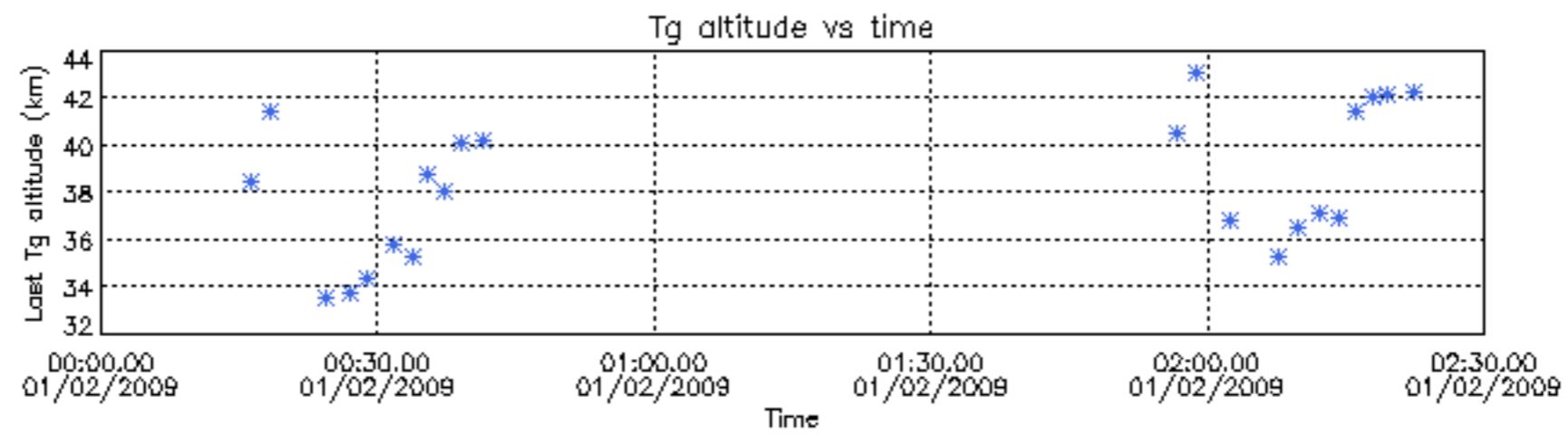
Percentage of star falling outside central band per profile



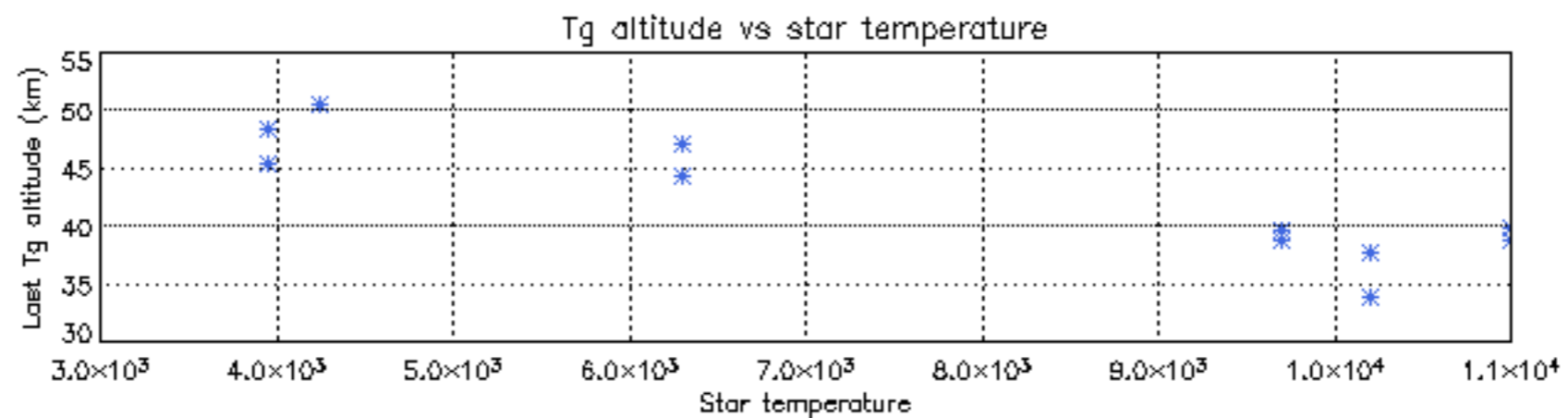
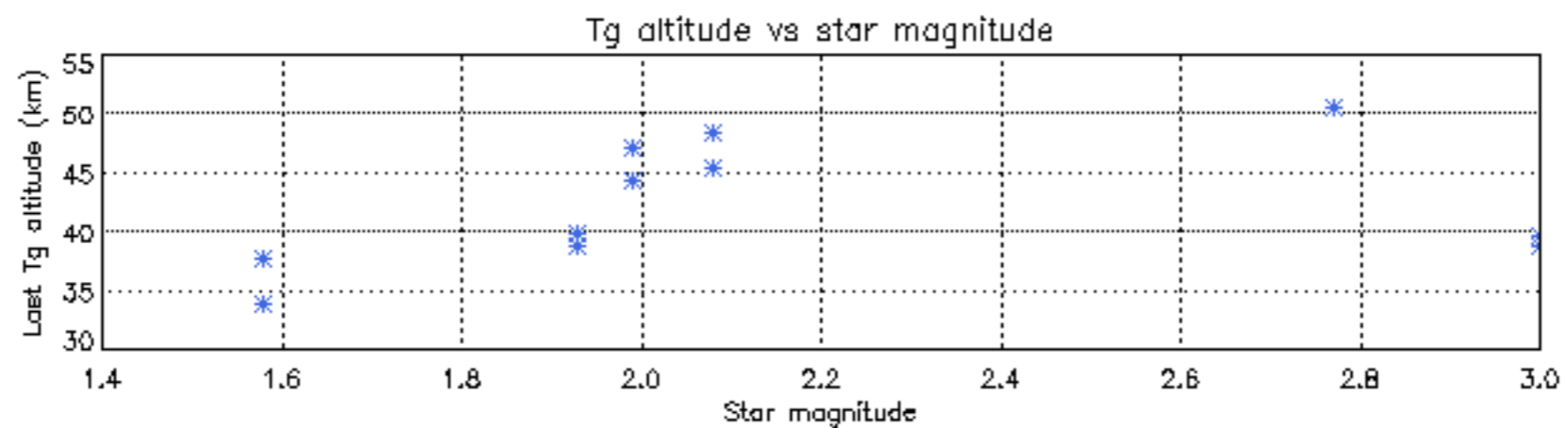
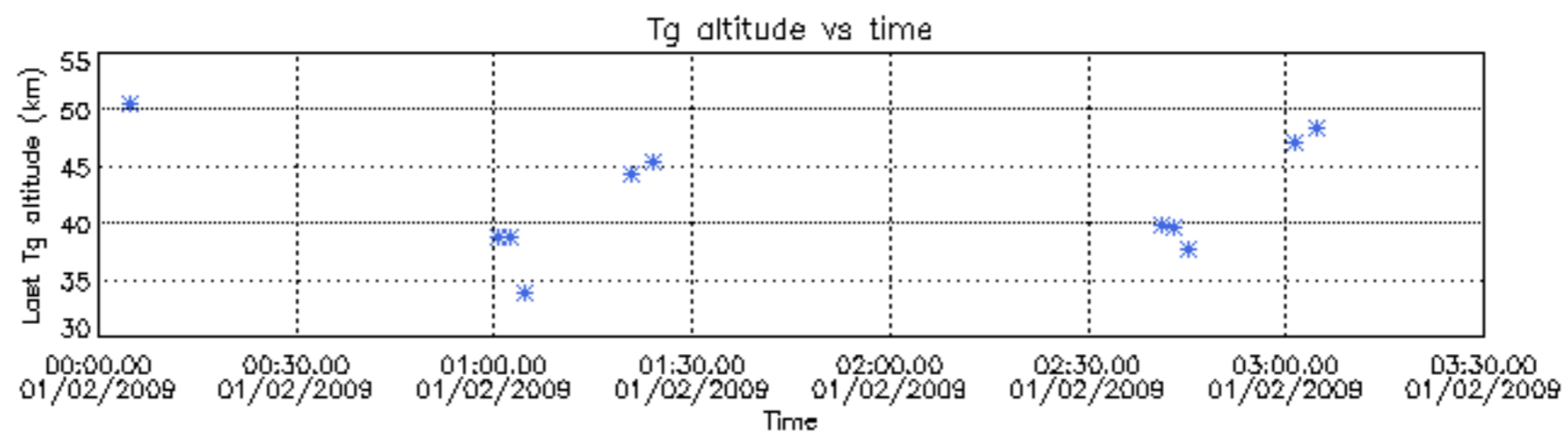
Percentage of saturation errors per profile

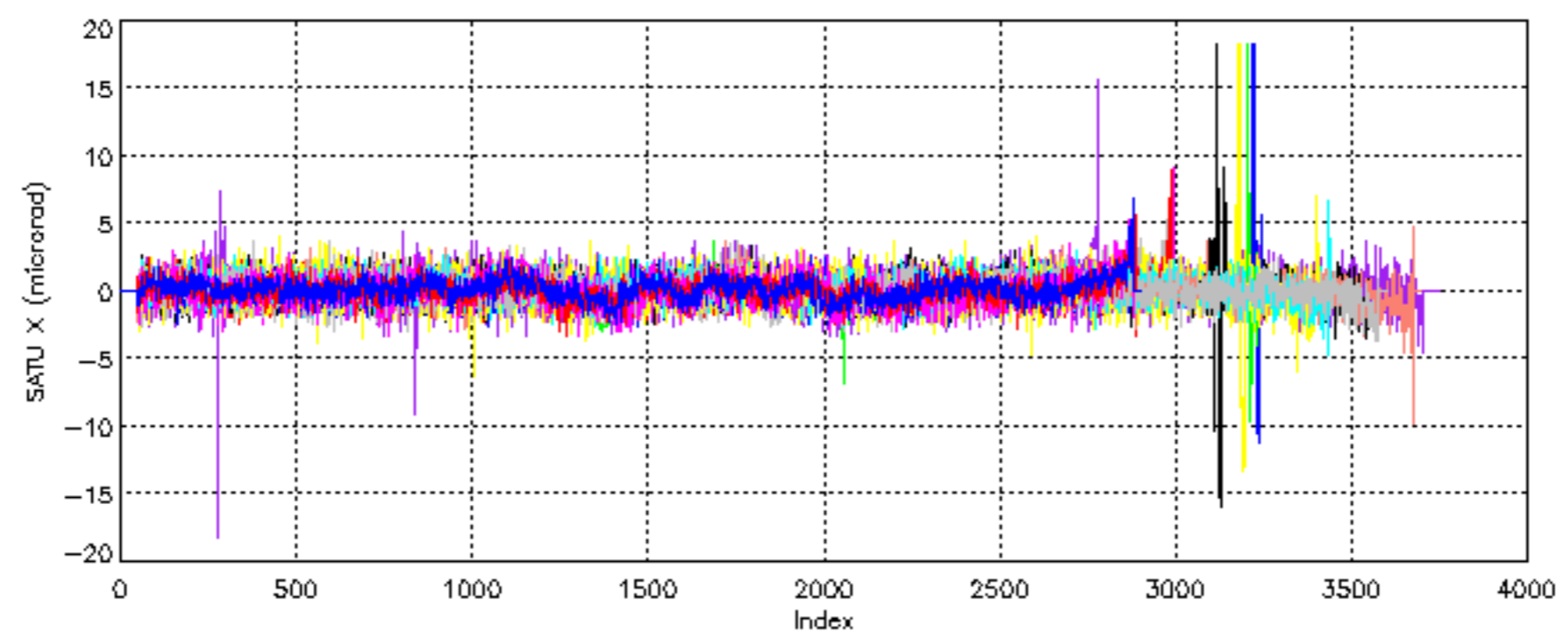


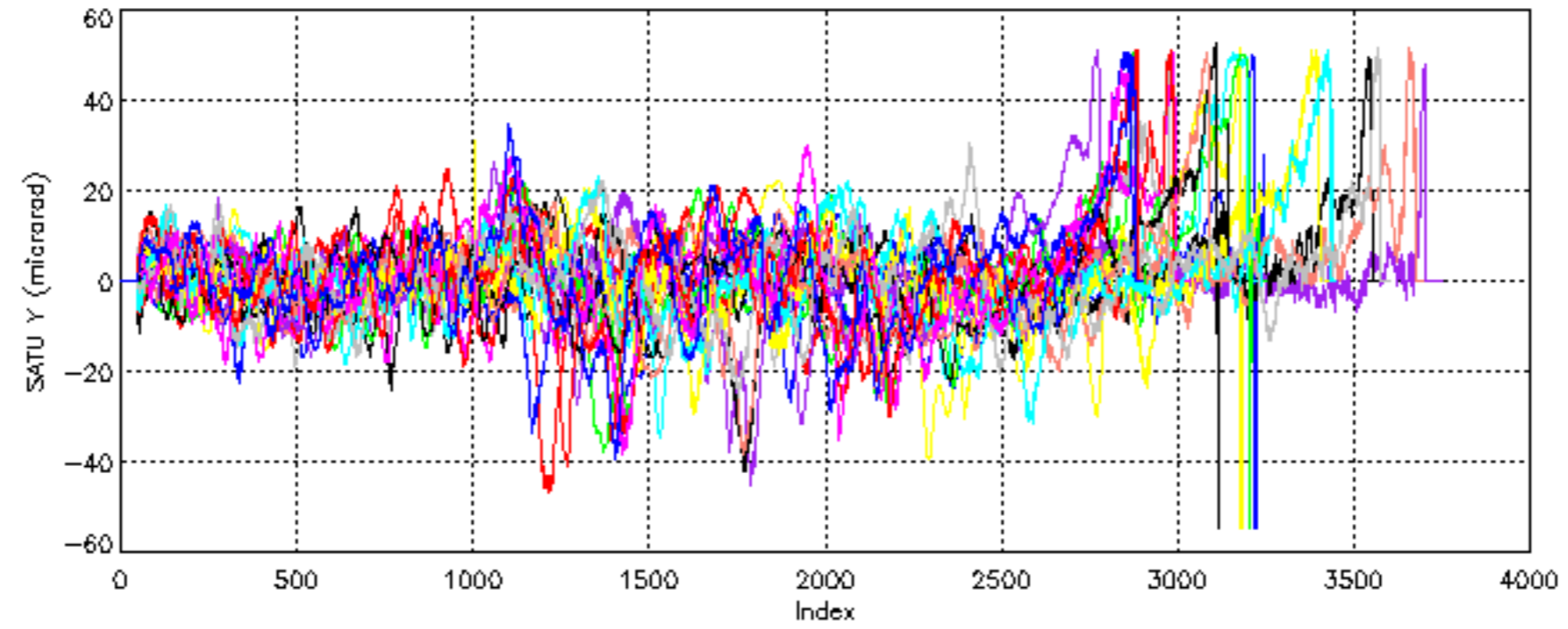
Tangent altitude at which the star is lost

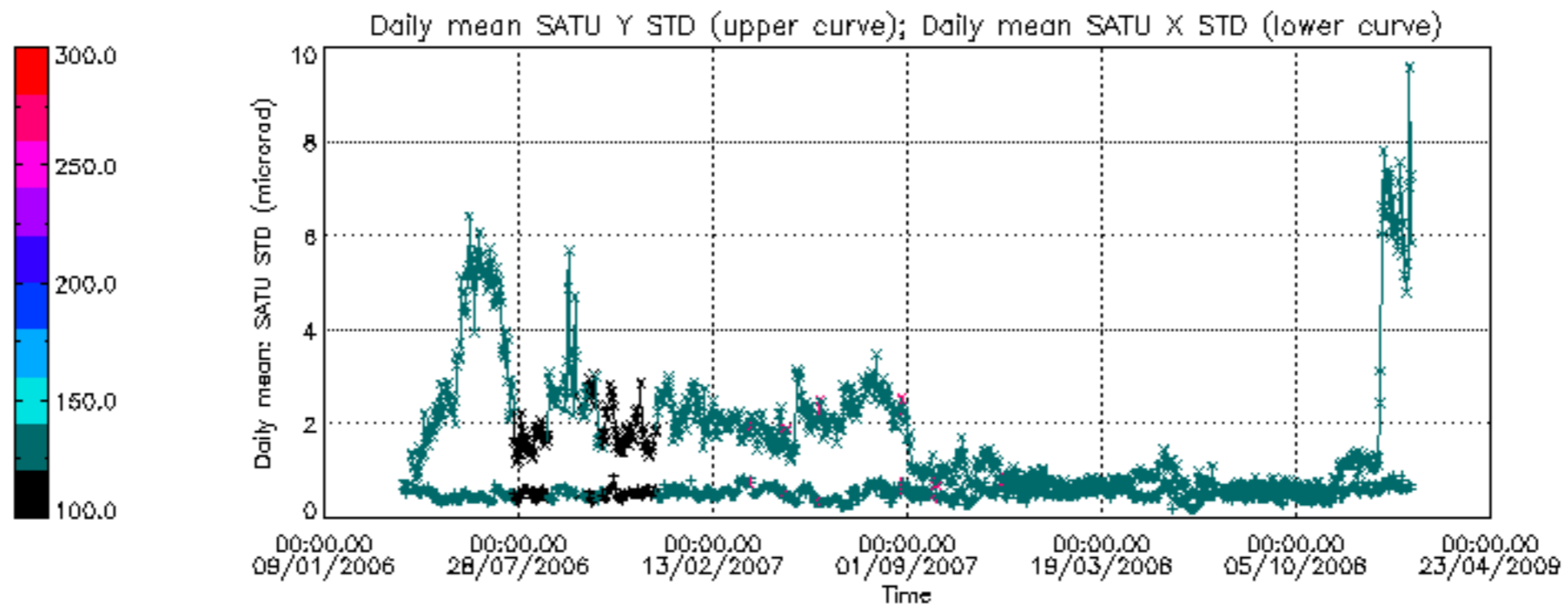


Tangent altitude at which the star is lost









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 3; -330.1; 01-FEB-2009 00:17:39; Dark ; 29.0; 40; The Sco ; 1.86; 7100;occ; 58; 0;36199
 4; 20.5; 01-FEB-2009 00:23:29; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;36200
 5; 109.3; 01-FEB-2009 00:24:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36200
 6; 196.9; 01-FEB-2009 00:26:26; Dark ; 32.5; 4; Alp1Cen ;-0.01; 5800;occ; 65; 0;36200
 7; 313.6; 01-FEB-2009 00:28:22; Dark ; 36.0; 77; Eps Cen ; 2.30; 28000;occ; 72; 0;36200
 8; 472.2; 01-FEB-2009 00:31:01; Dark ; 32.5; 12; Alp1Cru ; 0.77; 30000;occ; 65; 0;36200
 9; 594.2; 01-FEB-2009 00:33:03; Dark ; 37.0; 99; Del Cen ; 2.58; 26000;occ; 74; 0;36200
 10; 709.7; 01-FEB-2009 00:34:58; Dark ; 30.0; 159; Ups Car ; 2.92; 7200;occ; 60; 0;36200
 11; 824.5; 01-FEB-2009 00:36:53; Dark ; 30.5; 71; Iot Car ; 2.25; 7700;occ; 61; 0;36200
 12; 929.0; 01-FEB-2009 00:38:38; Dark ; 30.0; 46; Del Vel ; 1.95; 10600;occ; 60; 0;36200
 13; 1080.5; 01-FEB-2009 00:41:09; Dark ; 29.5; 34; Gam2Vel ; 1.79; 23000;occ; 59; 0;36200
 14; 1205.6; 01-FEB-2009 00:43:14; Dark ; 29.5; 70; Zet Pup ; 2.25; 39000;occ; 59; 0;36200
 15; 1413.0; 01-FEB-2009 00:46:42; Dark ; 28.0; 88; 31Eta CMa ; 2.45; 20000;occ; 56; 0;36200
 16; 1993.6; 01-FEB-2009 00:56:22; Dark ; 29.5; 8; 10Alp CMi ; 0.40; 6500;occ; 59; 0;36200
 17; 2199.5; 01-FEB-2009 00:59:48; Bright; 29.5; 44; 24Gam Gem ; 1.93; 11000;occ; 59; 0;36200
 18; 2341.7; 01-FEB-2009 01:02:10; Bright; 29.0; 170; 27Eps Gem ; 3.00; 9700;occ; 58; 0;36200
 19; 2455.3; 01-FEB-2009 01:04:04; Bright; 32.0; 24; 66Alp Gem ; 1.58; 10200;occ; 64; 0;36200
 20; 3427.8; 01-FEB-2009 01:20:16; Bright; 27.5; 49; 1Alp UMi ; 1.99; 6300;occ; 55; 0;36200
 21; 3612.4; 01-FEB-2009 01:23:21; Bright; 30.0; 60; 7Bet UMi ; 2.08; 3950;occ; 60; 0;36200
 22; 3895.5; 01-FEB-2009 01:28:04; Bright; 28.5; 119; 14Eta Dra ; 2.73; 4700;occ; 57; 0;36200
 23; 4087.5; 01-FEB-2009 01:31:16; Bright; 25.5; 130; 23Bet Dra ; 2.80; 5800;occ; 51; 0;36200
 24; 4305.5; 01-FEB-2009 01:34:54; Bright; 24.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 48; 0;36200
 25; 4798.6; 01-FEB-2009 01:43:07; Bright; 26.5; 59; 55Alp Oph ; 2.08; 8900;occ; 53; 0;36200
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 3; -329.2; 01-FEB-2009 01:58:15; Dark ; 28.0; 40; The Sco ; 1.86; 7100;occ; 56; 0;36200
 4; -112.5; 01-FEB-2009 02:01:52; Dark ; 34.5; 131; Gam Lup ; 2.80; 26000;occ; 69; 0;36200
 5; 110.0; 01-FEB-2009 02:05:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36201
 6; 197.5; 01-FEB-2009 02:07:02; Dark ; 32.0; 4; Alp1Cen ;-0.01; 5800;occ; 64; 0;36201
 7; 315.1; 01-FEB-2009 02:09:00; Dark ; 34.5; 77; Eps Cen ; 2.30; 28000;occ; 69; 0;36201
 8; 473.4; 01-FEB-2009 02:11:38; Dark ; 31.5; 12; Alp1Cru ; 0.77; 30000;occ; 63; 0;36201
 9; 595.4; 01-FEB-2009 02:13:40; Dark ; 36.0; 99; Del Cen ; 2.58; 26000;occ; 72; 0;36201
 10; 710.2; 01-FEB-2009 02:15:35; Dark ; 29.0; 159; Ups Car ; 2.92; 7200;occ; 58; 0;36201
 11; 825.1; 01-FEB-2009 02:17:30; Dark ; 29.0; 71; Iot Car ; 2.25; 7700;occ; 58; 0;36201
 12; 929.7; 01-FEB-2009 02:19:14; Dark ; 29.0; 46; Del Vel ; 1.95; 10600;occ; 58; 0;36201
 13; 1081.2; 01-FEB-2009 02:21:46; Dark ; 28.5; 34; Gam2Vel ; 1.79; 23000;occ; 57; 0;36201
 14; 1206.1; 01-FEB-2009 02:23:51; Dark ; 28.5; 70; Zet Pup ; 2.25; 39000;occ; 57; 0;36201
 15; 1412.9; 01-FEB-2009 02:27:17; Dark ; 28.0; 88; 31Eta CMa ; 2.45; 20000;occ; 56; 0;36201
 16; 1993.0; 01-FEB-2009 02:36:58; Dark ; 29.5; 8; 10Alp CMi ; 0.40; 6500;occ; 59; 0;36201
 17; 2200.4; 01-FEB-2009 02:40:25; Bright; 28.5; 44; 24Gam Gem ; 1.93; 11000;occ; 57; 0;36201
 18; 2342.2; 01-FEB-2009 02:42:47; Bright; 28.5; 170; 27Eps Gem ; 3.00; 9700;occ; 57; 0;36201
 19; 2455.6; 01-FEB-2009 02:44:40; Bright; 30.5; 24; 66Alp Gem ; 1.58; 10200;occ; 61; 0;36201
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 3; -1948.9; 01-FEB-2009 03:11:52; Bright; 25.0; 130; 23Bet Dra ; 2.80; 5800;occ; 50; 0;36201
 4; -1730.4; 01-FEB-2009 03:15:30; Bright; 23.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 46; 0;36201
 5; -1236.6; 01-FEB-2009 03:23:44; Bright; 24.5; 59; 55Alp Oph ; 2.08; 8900;occ; 49; 0;36201
 6; -1109.1; 01-FEB-2009 03:25:51; Bright; 25.5; 126; 60Bet Oph ; 2.77; 4250;occ; 51; 0;36201
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 8; -459.7; 01-FEB-2009 03:36:41; Dark ; 31.5; 16; 21Alp Sco ; 1.02; 3000;occ; 63; 0;36201
 9; -328.8; 01-FEB-2009 03:38:52; Dark ; 27.0; 40; The Sco ; 1.86; 7100;occ; 54; 0;36201
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 11; 110.7; 01-FEB-2009 03:46:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36202
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 13; 315.6; 01-FEB-2009 03:49:36; Dark ; 34.0; 77; Eps Cen ; 2.30; 28000;occ; 68; 0;36202
 14; 474.2; 01-FEB-2009 03:52:15; Dark ; 30.5; 12; Alp1Cru ; 0.77; 30000;occ; 61; 0;36202
 15; 596.5; 01-FEB-2009 03:54:17; Dark ; 35.0; 99; Del Cen ; 2.58; 26000;occ; 70; 0;36202
 16; 710.9; 01-FEB-2009 03:56:11; Dark ; 28.5; 159; Ups Car ; 2.92; 7200;occ; 57; 0;36202
 17; 825.7; 01-FEB-2009 03:58:06; Dark ; 28.5; 71; Iot Car ; 2.25; 7700;occ; 57; 0;36202
 18; 930.4; 01-FEB-2009 03:59:51; Dark ; 28.0; 46; Del Vel ; 1.95; 10600;occ; 56; 0;36202
 19; 1081.2; 01-FEB-2009 04:02:22; Dark ; 28.0; 34; Gam2Vel ; 1.79; 23000;occ; 56; 0;36202

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21; 1413.0; 01-FEB-2009 04:07:53; Dark ; 27.5; 88; 31Eta CMA ; 2.45; 20000;occ; 55; 0;36202
22; 1993.1; 01-FEB-2009 04:17:34; Dark ; 29.0; 8; 10Alp CMI ; 0.40; 6500;occ; 58; 0;36202
23; 2200.4; 01-FEB-2009 04:21:01; Bright; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;36202
24; 2342.3; 01-FEB-2009 04:23:23; Bright; 28.0; 170; 27Eps Gem ; 3.00; 9700;occ; 56; 0;36202
25; 2455.6; 01-FEB-2009 04:25:16; Bright; 30.0; 24; 66Alp Gem ; 1.58; 10200;occ; 60; 0;36202
26; 3427.9; 01-FEB-2009 04:41:28; Bright; 26.5; 49; 1Alp UMi ; 1.99; 6300;occ; 53; 0;36202
27; 3612.7; 01-FEB-2009 04:44:33; Bright; 27.5; 60; 7Bet UMi ; 2.08; 3950;occ; 55; 0;36202
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2; -1948.8; 01-FEB-2009 04:52:28; Bright; 24.5; 130; 23Bet Dra ; 2.80; 5800;occ; 49; 0;36202
3; -1730.0; 01-FEB-2009 04:56:06; Bright; 22.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 45; 0;36202
4; -1236.3; 01-FEB-2009 05:04:20; Bright; 24.5; 59; 55Alp Oph ; 2.08; 8900;occ; 49; 0;36202
5; -1108.3; 01-FEB-2009 05:06:28; Bright; 25.0; 126; 60Bet Oph ; 2.77; 4250;occ; 50; 0;36202
6; -719.0; 01-FEB-2009 05:12:57; Dark ; 28.5; 86; 35Eta Oph ; 2.43; 10200;occ; 57; 0;36202
7; -458.6; 01-FEB-2009 05:17:18; Dark ; 31.0; 16; 21Alp Sco ; 1.02; 3000;occ; 62; 0;36202
8; -328.6; 01-FEB-2009 05:19:28; Dark ; 27.0; 40; The Sco ; 1.86; 7100;occ; 54; 0;36202
9; -111.2; 01-FEB-2009 05:23:05; Dark ; 33.5; 131; Gam Lup ; 2.80; 26000;occ; 67; 0;36202
10; 23.6; 01-FEB-2009 05:25:20; Dark ; 35.0; 109; Bet Lup ; 2.68; 26000;occ; 70; 0;36203
11; 111.4; 01-FEB-2009 05:26:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36203
12; 198.2; 01-FEB-2009 05:28:15; Dark ; 31.0; 4; Alp1Cen ; -0.01; 5800;occ; 62; 0;36203
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14; 474.0; 01-FEB-2009 05:32:51; Dark ; 31.0; 12; Alp1Cru ; 0.77; 30000;occ; 62; 0;36203
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16; 710.7; 01-FEB-2009 05:36:47; Dark ; 28.5; 159; Ups Car ; 2.92; 7200;occ; 57; 0;36203
17; 825.6; 01-FEB-2009 05:38:42; Dark ; 28.5; 71; Iot Car ; 2.25; 7700;occ; 57; 0;36203
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21; 1413.3; 01-FEB-2009 05:48:30; Dark ; 27.0; 88; 31Eta CMA ; 2.45; 20000;occ; 54; 0;36203
22; 1993.0; 01-FEB-2009 05:58:10; Dark ; 29.0; 8; 10Alp CMI ; 0.40; 6500;occ; 58; 0;36203
23; 2200.7; 01-FEB-2009 06:01:37; Bright; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;36203
24; 2342.3; 01-FEB-2009 06:03:59; Bright; 28.0; 170; 27Eps Gem ; 3.00; 9700;occ; 56; 0;36203
25; 2455.4; 01-FEB-2009 06:05:52; Bright; 30.0; 24; 66Alp Gem ; 1.58; 10200;occ; 60; 0;36203
26; 3427.8; 01-FEB-2009 06:22:04; Bright; 26.5; 49; 1Alp UMi ; 1.99; 6300;occ; 53; 0;36203
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2; 1083.4; 01-FEB-2009 20:48:23; Dark ; 26.0; 34; Gam2Vel ; 1.79; 23000;occ; 52; 0;36212
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12; 4086.4; 01-FEB-2009 21:38:26; Bright; 23.0; 130; 23Bet Dra ; 2.80; 5800;occ; 46; 0;36212
13; 4306.7; 01-FEB-2009 21:42:07; Bright; 21.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 43; 0;36212
14; 4802.1; 01-FEB-2009 21:50:22; Bright; 23.5; 59; 55Alp Oph ; 2.08; 8900;occ; 47; 0;36212
15; 4930.5; 01-FEB-2009 21:52:31; Bright; 23.0; 126; 60Bet Oph ; 2.77; 4250;occ; 46; 0;36212
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12; 718.5; 02-FEB-2009 21:51:18; Dark ; 16.5; 159; Ups Car ; 2.92; 7200;occ; 33; 0;36227
13; 833.6; 02-FEB-2009 21:53:13; Dark ; 16.5; 71; Iot Car ; 2.25; 7700;occ; 33; 0;36227
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16; 1212.1; 02-FEB-2009 21:59:31; Dark ; 16.0; 70; Zet Pup ; 2.25; 39000;occ; 32; 0;36227
17; 1417.6; 02-FEB-2009 22:02:57; Dark ; 16.0; 88; 31Eta CMa ; 2.45; 20000;occ; 32; 0;36227
18; 1993.5; 02-FEB-2009 22:12:33; Dark ; 17.0; 8; 10Alp CMi ; 0.40; 6500;occ; 34; 0;36227
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21; 3427.8; 02-FEB-2009 22:36:27; Bright; 15.0; 49; 1Alp UMi ; 1.99; 6300;occ; 30; 0;36227
22; 3605.5; 02-FEB-2009 22:39:25; Bright; 15.5; 60; 7Bet UMi ; 2.08; 3950;occ; 31; 0;36227
23; 3891.2; 02-FEB-2009 22:44:10; Bright; 13.5; 119; 14Eta Dra ; 2.73; 4700;occ; 27; 0;36227
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25; 4308.9; 02-FEB-2009 22:51:08; Bright; 11.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 23; 0;36227
26; 4806.7; 02-FEB-2009 22:59:26; Bright; 12.5; 59; 55Alp Oph ; 2.08; 8900;occ; 25; 0;36227
27; 4935.6; 02-FEB-2009 23:01:35; Bright; 12.5; 126; 60Bet Oph ; 2.77; 4250;occ; 25; 0;36227
28; 5330.5; 02-FEB-2009 23:08:10; Dark ; 14.5; 86; 35Eta Oph ; 2.43; 10200;occ; 29; 0;36227

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18; 2345.5; 02-FEB-2009 23:59:00; Bright; 16.5; 170; 27Eps Gem ; 3.00; 9700;occ; 33; 0;36228
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13; 279.8; 02-FEB-2009 06:38:35; Dark ; 19.0; 10; Bet Cen ; 0.61; 28000;occ; 38; 0;36218
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16; 715.9; 02-FEB-2009 06:45:52; Dark ; 17.0; 159; Ups Car ; 2.92; 7200;occ; 34; 0;36218
17; 830.9; 02-FEB-2009 06:47:47; Dark ; 17.0; 71; Iot Car ; 2.25; 7700;occ; 34; 0;36218
18; 935.0; 02-FEB-2009 06:49:31; Dark ; 16.5; 46; Del Vel ; 1.95; 10600;occ; 33; 0;36218
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13; 5712.4; 02-FEB-2009 08:09:08; Dark ; 16.5; 40; The Sco ; 1.86; 7100;occ; 33; 0;36218
14; 5825.0; 02-FEB-2009 08:11:01; Dark ; 16.5; 147; Alp Ara ; 2.88; 26000;occ; 33; 0;36218
15; 5938.2; 02-FEB-2009 08:12:54; Dark ; 20.5; 131; Gam Lup ; 2.80; 26000;occ; 41; 0;36218
16; 6074.5; 02-FEB-2009 08:15:10; Dark ; 21.5; 109; Bet Lup ; 2.68; 26000;occ; 43; 0;36218
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18; 6243.3; 02-FEB-2009 08:17:59; Dark ; 19.0; 4; Alp1Cen ;-0.01; 5800;occ; 38; 0;36218
19; 6316.5; 02-FEB-2009 08:19:12; Dark ; 19.0; 10; Bet Cen ; 0.61; 28000;occ; 38; 0;36218

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 24; 6971.1; 02-FEB-2009 08:30:07; Dark ; 17.0; 46; Del Vel ; 1.95; 10600;occ; 34; 0;36218
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 23; 6971.3; 02-FEB-2009 10:10:43; Dark ; 17.0; 46; Del Vel ; 1.95; 10600;occ; 34; 0;36219
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 25; 7246.7; 02-FEB-2009 10:15:18; Dark ; 16.0; 70; Zet Pup ; 2.25; 39000;occ; 32; 0;36219
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24; 6972.0; 02-FEB-2009 13:31:55; Dark ; 16.5; 46; Del Vel ; 1.95; 10600;occ; 33; 0;36221
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23; 6753.4; 02-FEB-2009 15:08:53; Dark ; 17.0; 159; Ups Car ; 2.92; 7200;occ; 34; 0;36222
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26; 7122.4; 02-FEB-2009 15:15:02; Dark ; 16.0; 34; Gam2Vel ; 1.79; 23000;occ; 32; 0;36222
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11; 4934.5; 02-FEB-2009 16:19:10; Bright; 13.0; 126; 60Bet Oph ; 2.77; 4250;occ; 26; 0;36223
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16; 5826.5; 02-FEB-2009 16:34:02; Dark ; 16.0; 147; Alp Ara ; 2.88; 26000;occ; 32; 0;36223
17; 5942.4; 02-FEB-2009 16:35:58; Dark ; 20.0; 131; Gam Lup ; 2.80; 26000;occ; 40; 0;36223

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 23; 6753.7; 02-FEB-2009 16:49:29; Dark ; 16.5; 159; Ups Car ; 2.92; 7200;occ; 33; 0;36223
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 13; 937.9; 03-FEB-2009 01:16:09; Dark ; 16.0; 46; Del Vel ; 1.95; 10600;occ; 32; 0;36229
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 15; 1212.6; 03-FEB-2009 01:20:43; Dark ; 15.5; 70; Zet Pup ; 2.25; 39000;occ; 31; 0;36229
 16; 1418.1; 03-FEB-2009 01:24:09; Dark ; 15.5; 88; 31Eta CMa ; 2.45; 20000;occ; 31; 0;36229
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 19; 2452.8; 03-FEB-2009 01:41:24; Bright; 17.0; 24; 66Alp Gem ; 1.58; 10200;occ; 34; 0;36229
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26; 2452.8; 03-FEB-2009 06:43:12; Bright; 16.5; 24; 66Alp Gem ; 1.58; 10200;occ; 33; 0;36232
27; 3427.9; 03-FEB-2009 06:59:27; Bright; 14.0; 49; 1Alp UMi ; 1.99; 6300;occ; 28; 0;36232
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 11; 5333.5; 03-FEB-2009 09:11:48; Dark ; 14.5; 86; 35Eta Oph ; 2.43; 10200;occ; 29; 0;36233
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 23; 6756.6; 03-FEB-2009 09:35:31; Dark ; 15.5; 159; Ups Car ; 2.92; 7200;occ; 31; 0;36233
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 12; 5486.7; 03-FEB-2009 10:54:57; Dark ; 13.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 27; 0;36234
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 23; 6756.9; 03-FEB-2009 11:16:08; Dark ; 15.5; 159; Ups Car ; 2.92; 7200;occ; 31; 0;36234
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