

GOMOS Daily Report 09-JAN-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	11JAN2009 05:33:49
Data source version	GOMOS/5.00
Start time of products	09JAN2009 00:02:38
Stop time of products	09JAN2009 02:36:34
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)

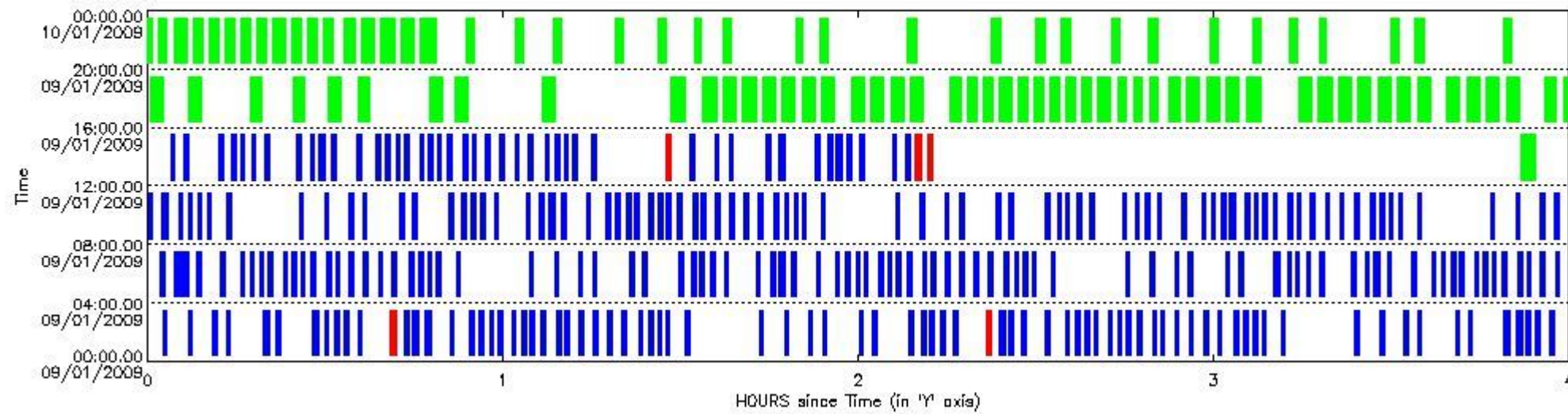
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

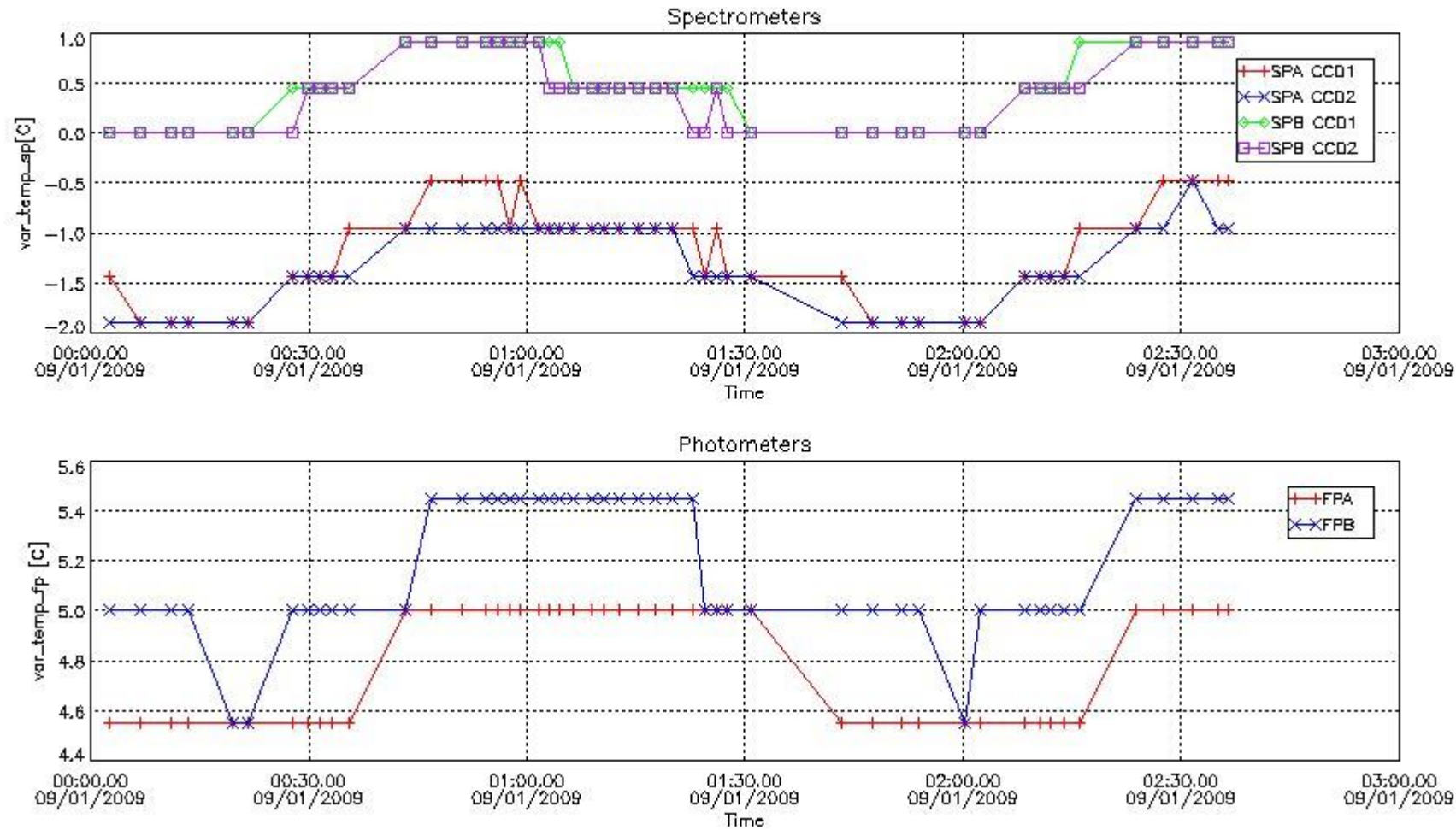
UTC start time	Star name	Star ID	Orbit
09-JAN-2009 00:40:55	GamLup	131	35870
09-JAN-2009 02:21:32	GamLup	131	35871
09-JAN-2009 13:27:27	1AlpUMi	49	35878
09-JAN-2009 14:09:33	DSA1027	0	35878
09-JAN-2009 14:11:43	Alp1Cen	4	35879

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_1PNPDE20090109_000238_000000352075_00245_35870_9110.N1	09-JAN-2009 00:02:38	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	35870	No
2	GOM_TRA_1PNPDE20090109_000650_000000352075_00245_35870_9111.N1	09-JAN-2009 00:06:50	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	35870	No
3	GOM_TRA_1PNPDE20090109_001058_000000392075_00245_35870_9112.N1	09-JAN-2009 00:10:58	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	35870	No
4	GOM_TRA_1PNPDE20090109_001320_000000342075_00245_35870_9113.N1	09-JAN-2009 00:13:20	Bright	33.500	130	23Bet Dra	2.7990	5800.0	67	35870	No
5	GOM_TRA_1PNPDE20090109_001934_000000512075_00245_35870_9114.N1	09-JAN-2009 00:19:34	Bright	50.500	133	40Zet Her	2.8070	6000.0	101	35870	No
6	GOM_TRA_1PNPDE20090109_002142_000000412075_00245_35870_9115.N1	09-JAN-2009 00:21:42	Bright	40.500	67	5Alp CrB	2.2210	11000.	81	35870	No

7	GOM_TRA_1PNPDE20090109_002745_000000572075_00245_35870_9116.N1	09-JAN-2009 00:27:45	Bright	57.000	102	24Alp Ser	2.6000	4250.0	114	35870	No
8	GOM_TRA_1PNPDE20090109_002958_000000362075_00245_35870_9117.N1	09-JAN-2009 00:29:58	Bright	36.000	120	1Del Oph	2.7340	3200.0	72	35870	No
9	GOM_TRA_1PNPDE20090109_003126_000000522075_00245_35870_9118.N1	09-JAN-2009 00:31:26	Bright	52.000	98	13Zet Oph	2.5710	30000.	104	35870	No
10	GOM_TRA_1PNPDE20090109_003311_000000462075_00245_35870_9119.N1	09-JAN-2009 00:33:11	Tw_i_and_stray	46.000	104	27Bet Lib	2.6140	13100.	92	35870	No
11	GOM_TRA_1PNPDE20090109_003527_000000452075_00245_35870_9217.N1	09-JAN-2009 00:35:27	Tw_i_and_stray	44.500	80	7Del Sco	2.3160	30000.	89	35870	No
12	GOM_TRA_1PNPDE20090109_004315_000000562075_00245_35870_9218.N1	09-JAN-2009 00:43:15	Dark	56.000	54	5The Cen	2.0550	4500.0	112	35870	No
13	GOM_TRA_1PNPDE20090109_004650_000000532075_00246_35871_9219.N1	09-JAN-2009 00:46:50	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	35871	No
14	GOM_TRA_1PNPDE20090109_005101_000000402075_00246_35871_9220.N1	09-JAN-2009 00:51:01	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	35871	No
15	GOM_TRA_1PNPDE20090109_005421_000000402075_00246_35871_9221.N1	09-JAN-2009 00:54:21	Dark	40.000	124	The Car	2.7640	30000.	80	35871	No
16	GOM_TRA_1PNPDE20090109_005558_000000402075_00246_35871_9222.N1	09-JAN-2009 00:55:58	Dark	39.500	29	Bet Car	1.6720	10200.	79	35871	No
17	GOM_TRA_1PNPDE20090109_005741_000000412075_00246_35871_9223.N1	09-JAN-2009 00:57:41	Dark	40.500	71	lot Car	2.2460	7700.0	81	35871	No
18	GOM_TRA_1PNPDE20090109_005904_000000512075_00246_35871_9224.N1	09-JAN-2009 00:59:04	Dark	51.000	41	Eps Car	1.8600	4100.0	102	35871	No
19	GOM_TRA_1PNPDE20090109_010134_000000332075_00246_35871_9225.N1	09-JAN-2009 01:01:34	Dark	33.000	65	Lam Vel	2.2040	4400.0	66	35871	No
20	GOM_TRA_1PNPDE20090109_010308_000000412075_00246_35871_9226.N1	09-JAN-2009 01:03:08	Dark	41.000	161	Tau Pup	2.9310	4500.0	82	35871	No
21	GOM_TRA_1PNPDE20090109_010432_000000432075_00246_35871_9227.N1	09-JAN-2009 01:04:32	Dark	43.000	70	Zet Pup	2.2460	39000.	86	35871	No
22	GOM_TRA_1PNPDE20090109_010622_000000462075_00246_35871_9228.N1	09-JAN-2009 01:06:22	Straylight	45.500	117	Pi Pup	2.7060	3800.0	91	35871	No
23	GOM_TRA_1PNPDE20090109_010900_000000462075_00246_35871_9229.N1	09-JAN-2009 01:09:00	Straylight	45.500	23	21Eps CMa	1.5020	26000.	91	35871	No
24	GOM_TRA_1PNPDE20090109_011028_000000442075_00246_35871_9230.N1	09-JAN-2009 01:10:28	Straylight	43.500	179	24Omi2CMa	3.0320	24000.	87	35871	No
25	GOM_TRA_1PNPDE20090109_011246_000000482075_00246_35871_9231.N1	09-JAN-2009 01:12:46	Straylight	47.500	1	9Alp CMa	-1.4400	11000.	95	35871	No
26	GOM_TRA_1PNPDE20090109_011514_000000422075_00246_35871_9232.N1	09-JAN-2009 01:15:14	Straylight	41.500	56	53Kap Ori	2.0650	30000.	83	35871	No
27	GOM_TRA_1PNPDE20090109_011742_000000432075_00246_35871_9233.N1	09-JAN-2009 01:17:42	Straylight	42.500	30	46Eps Ori	1.6940	30000.	85	35871	No
28	GOM_TRA_1PNPDE20090109_012002_000000512075_00246_35871_9234.N1	09-JAN-2009 01:20:02	Tw_i_and_stray	50.500	14	58Alp Ori	0.87000	3000.0	101	35871	No
29	GOM_TRA_1PNPDE20090109_012249_000000452075_00246_35871_9235.N1	09-JAN-2009 01:22:49	Tw_i_and_stray	45.000	44	24Gam Gem	1.9280	11000.	90	35871	No
30	GOM_TRA_1PNPDE20090109_012430_000000452075_00246_35871_9236.N1	09-JAN-2009 01:24:30	Bright	45.000	151	13Mu Gem	2.8900	3000.0	90	35871	No
31	GOM_TRA_1PNPDE20090109_012606_000000372075_00246_35871_9237.N1	09-JAN-2009 01:26:06	Bright	36.500	28	12Bet Tau	1.6500	15200.	73	35871	No
32	GOM_TRA_1PNPDE20090109_012733_000000372075_00246_35871_9238.N1	09-JAN-2009 01:27:33	Bright	36.500	114	3lot Aur	2.6930	4600.0	73	35871	No
33	GOM_TRA_1PNPDE20090109_013048_000000382075_00246_35871_9239.N1	09-JAN-2009 01:30:48	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	35871	No
34	GOM_TRA_1PNPDE20090109_014314_000000342075_00246_35871_9240.N1	09-JAN-2009 01:43:14	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	35871	No
35	GOM_TRA_1PNPDE20090109_014727_000000412075_00246_35871_9241.N1	09-JAN-2009 01:47:27	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	35871	No
36	GOM_TRA_1PNPDE20090109_015134_000000402075_00246_35871_9242.N1	09-JAN-2009 01:51:34	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	35871	No
37	GOM_TRA_1PNPDE20090109_015356_000000422075_00246_35871_9243.N1	09-JAN-2009 01:53:56	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	35871	No
38	GOM_TRA_1PNPDE20090109_020010_000000352075_00246_35871_9244.N1	09-JAN-2009 02:00:10	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	35871	No
39	GOM_TRA_1PNPDE20090109_020218_000000472075_00246_35871_9245.N1	09-JAN-2009 02:02:18	Bright	47.000	67	5Alp CrB	2.2210	11000.	94	35871	No
40	GOM_TRA_1PNPDE20090109_020821_000000572075_00246_35871_9246.N1	09-JAN-2009 02:08:21	Bright	57.000	102	24Alp Ser	2.6000	4250.0	114	35871	No
41	GOM_TRA_1PNPDE20090109_021033_000000542075_00246_35871_9367.N1	09-JAN-2009 02:10:33	Bright	54.000	120	1Del Oph	2.7340	3200.0	108	35871	No
42	GOM_TRA_1PNPDE20090109_021202_000000522075_00246_35871_9368.N1	09-JAN-2009 02:12:02	Bright	52.000	98	13Zet Oph	2.5710	30000.	104	35871	No
43	GOM_TRA_1PNPDE20090109_021347_000000492075_00246_35871_9369.N1	09-JAN-2009 02:13:47	Tw_i_and_stray	48.500	104	27Bet Lib	2.6140	13100.	97	35871	No
44	GOM_TRA_1PNPDE20090109_021603_000000452075_00246_35871_9370.N1	09-JAN-2009 02:16:03	Tw_i_and_stray	44.500	80	7Del Sco	2.3160	30000.	89	35871	No
45	GOM_TRA_1PNPDE20090109_022352_000000532075_00246_35871_9371.N1	09-JAN-2009 02:23:52	Dark	52.500	54	5The Cen	2.0550	4500.0	105	35871	No
46	GOM_TRA_1PNPDE20090109_022726_000000462075_00247_35872_9372.N1	09-JAN-2009 02:27:26	Dark	46.000	4	Alp1Cen	-0.010000	5800.0	92	35872	No
47	GOM_TRA_1PNPDE20090109_023138_000000422075_00247_35872_9373.N1	09-JAN-2009 02:31:38	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	35872	No
48	GOM_TRA_1PNPDE20090109_023457_000000392075_00247_35872_9374.N1	09-JAN-2009 02:34:57	Dark	39.000	124	The Car	2.7640	30000.	78	35872	No
49	GOM_TRA_1PNPDE20090109_023634_000000462075_00247_35872_9375.N1	09-JAN-2009 02:36:34	Dark	45.500	29	Bet Car	1.6720	10200.	91	35872	No

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



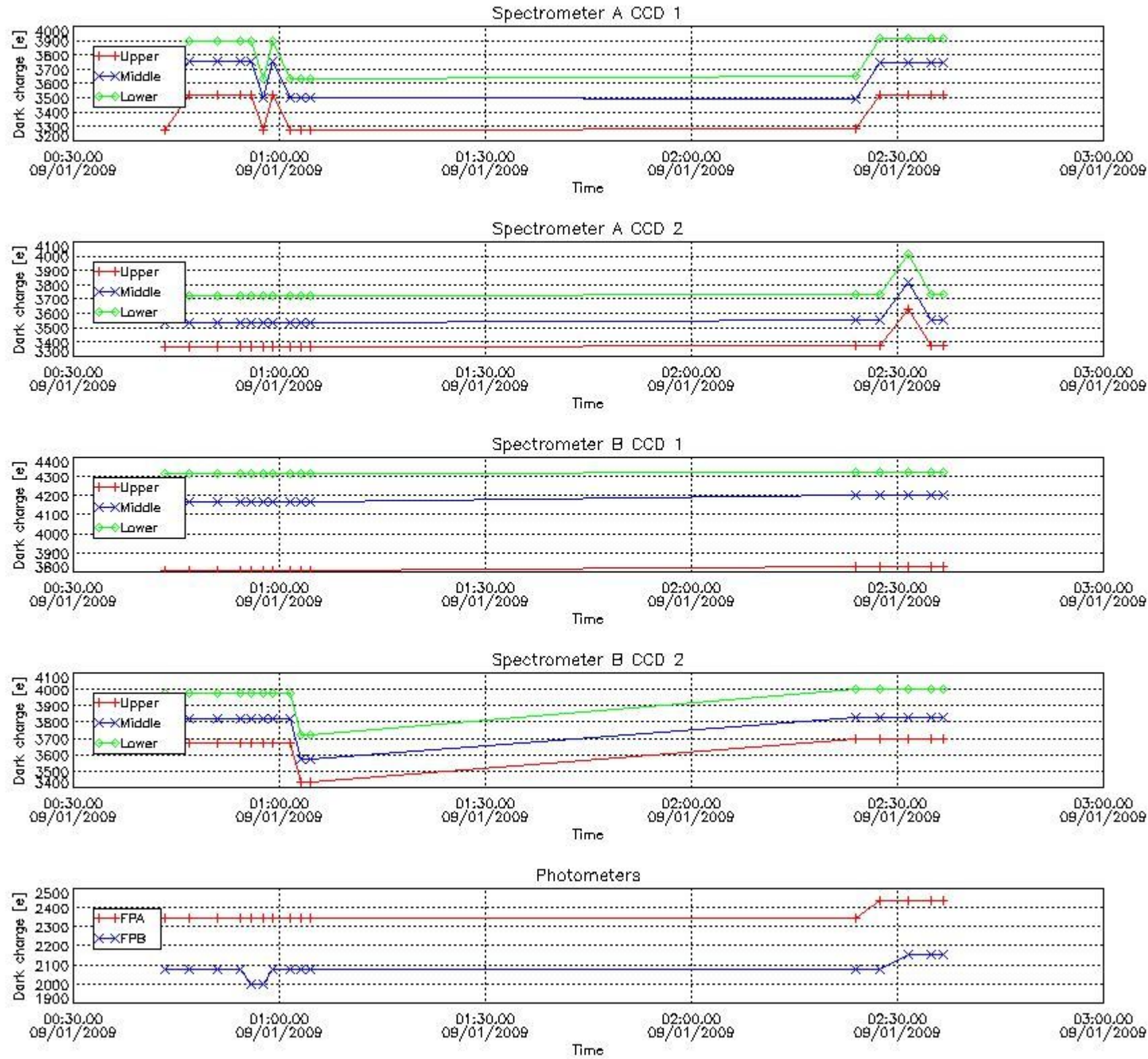
4. Overview of dark signal processing per product

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



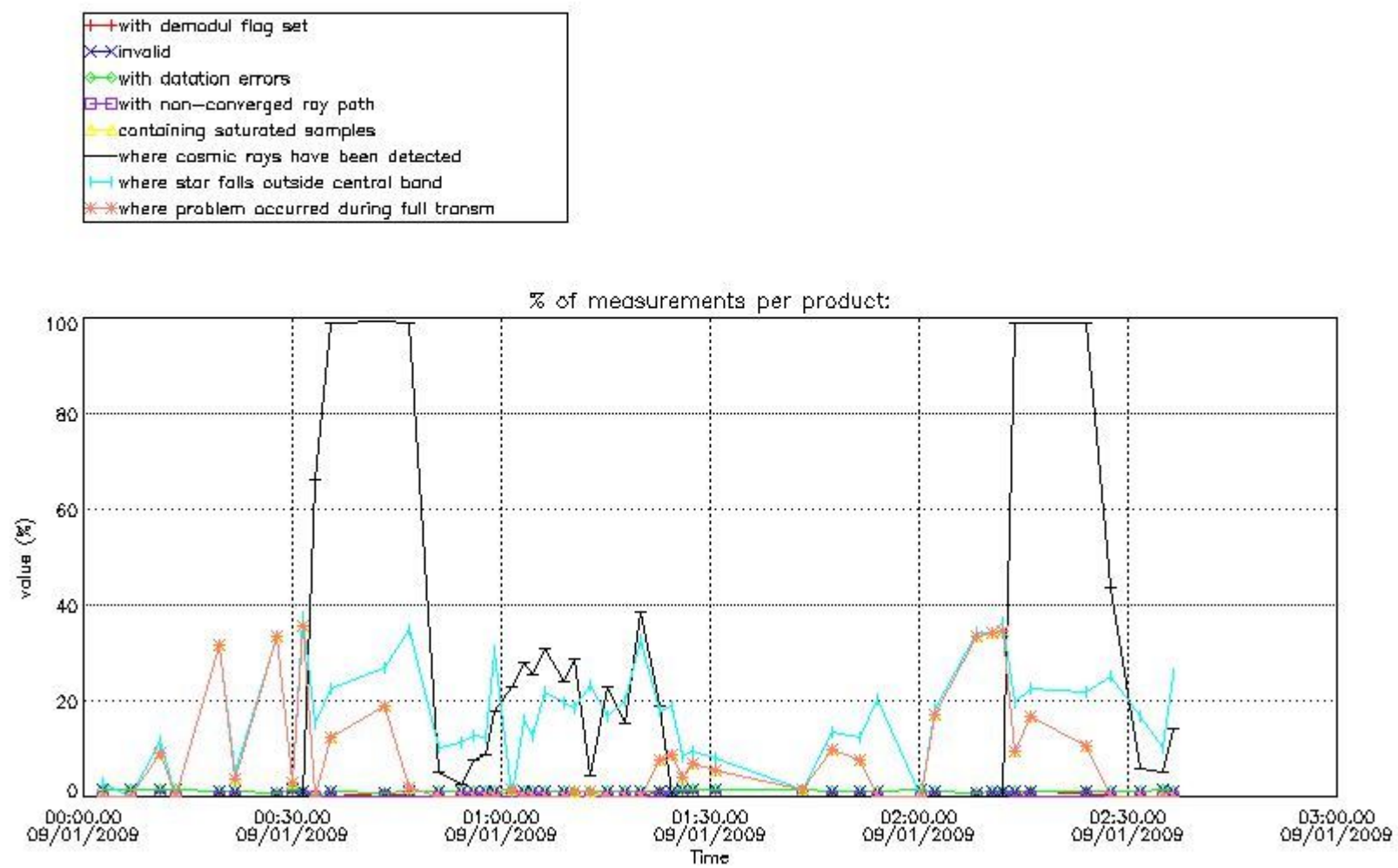
5. Demodulation flag and quality information monitoring

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.

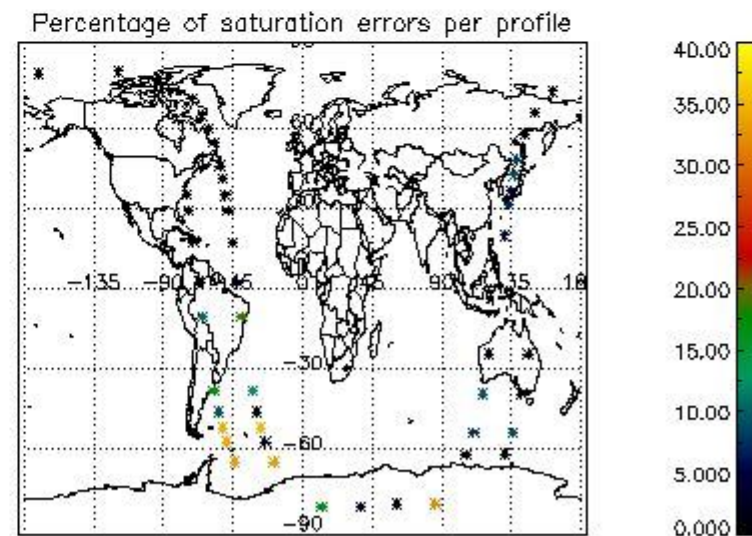
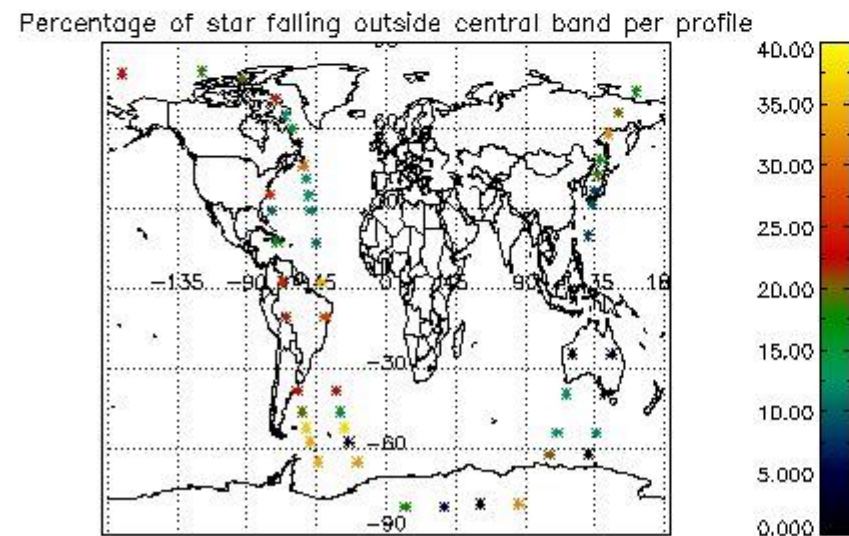
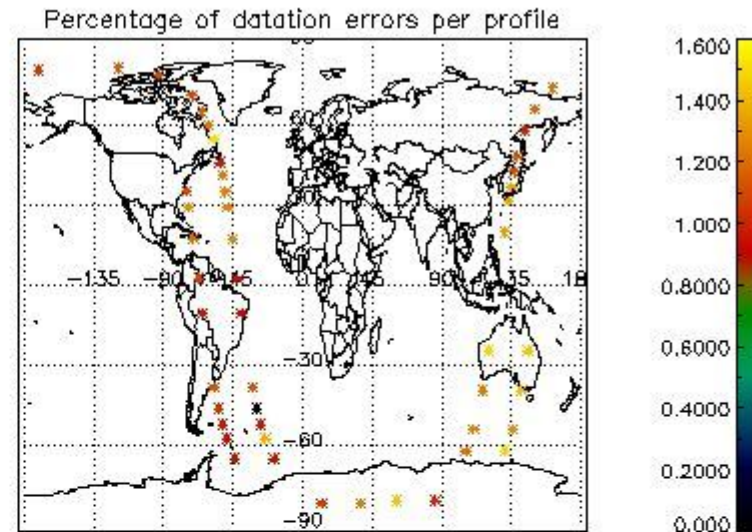
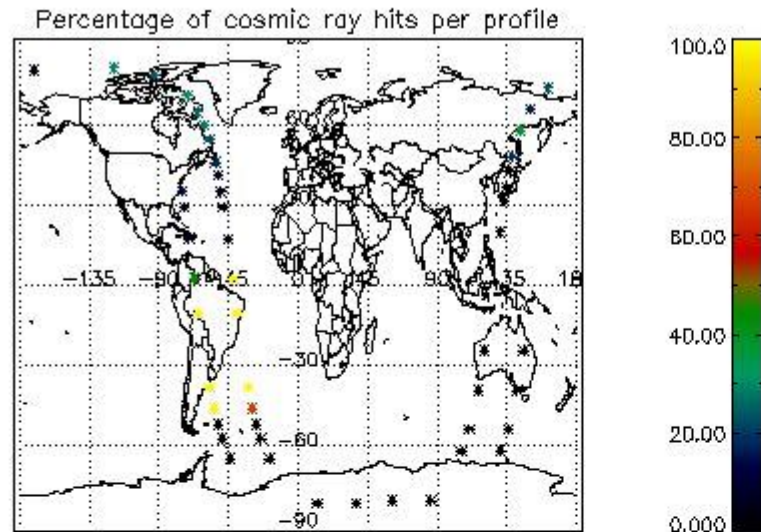
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.7347 %
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)



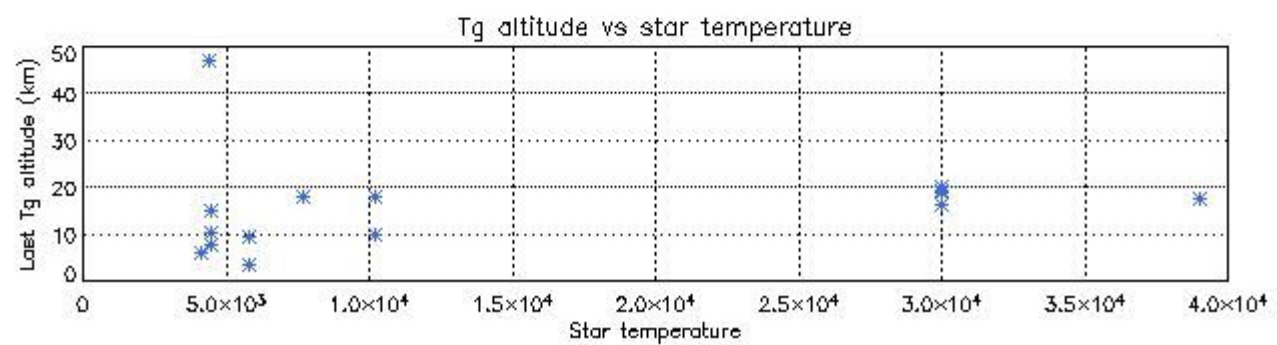
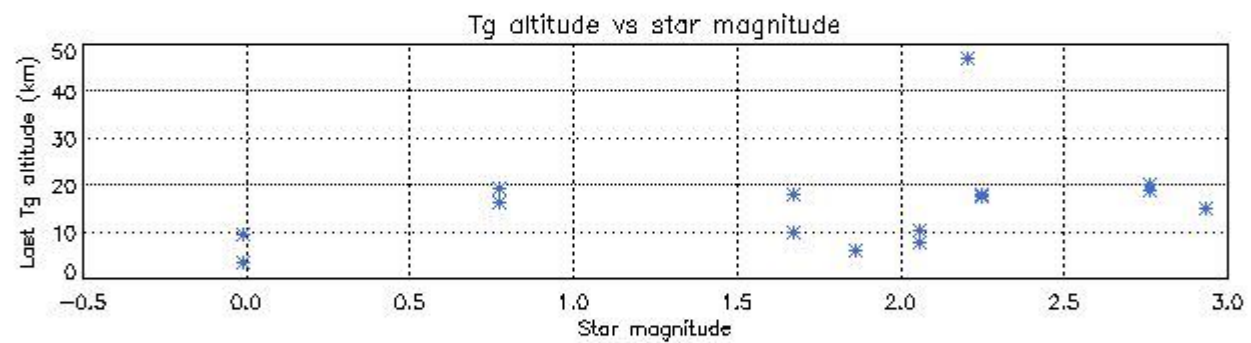
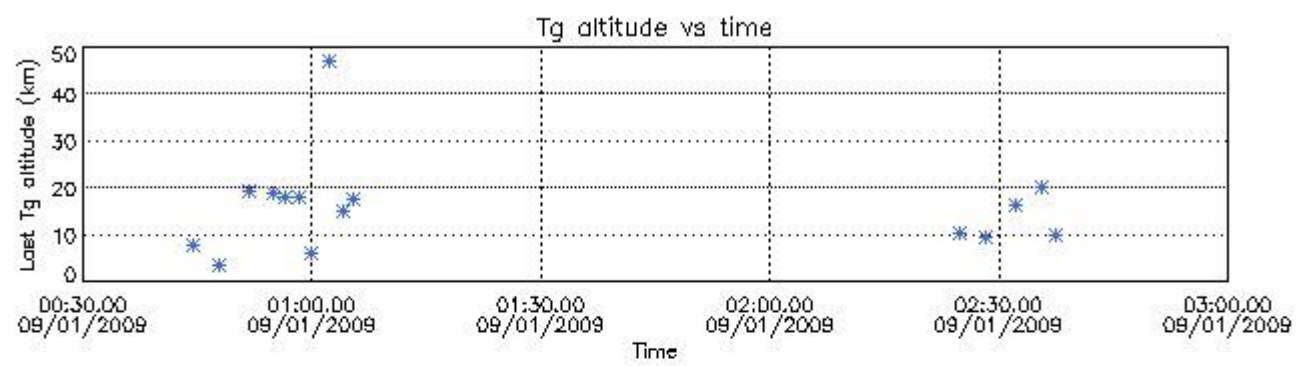
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.798	15.793	NaN
St. deviation:	10.217	8.1712	NaN
Maximum:	47.213	27.954	NaN
Minimum:	3.5121	4.1080	NaN
Number of data:	15.000	22.000	NaN

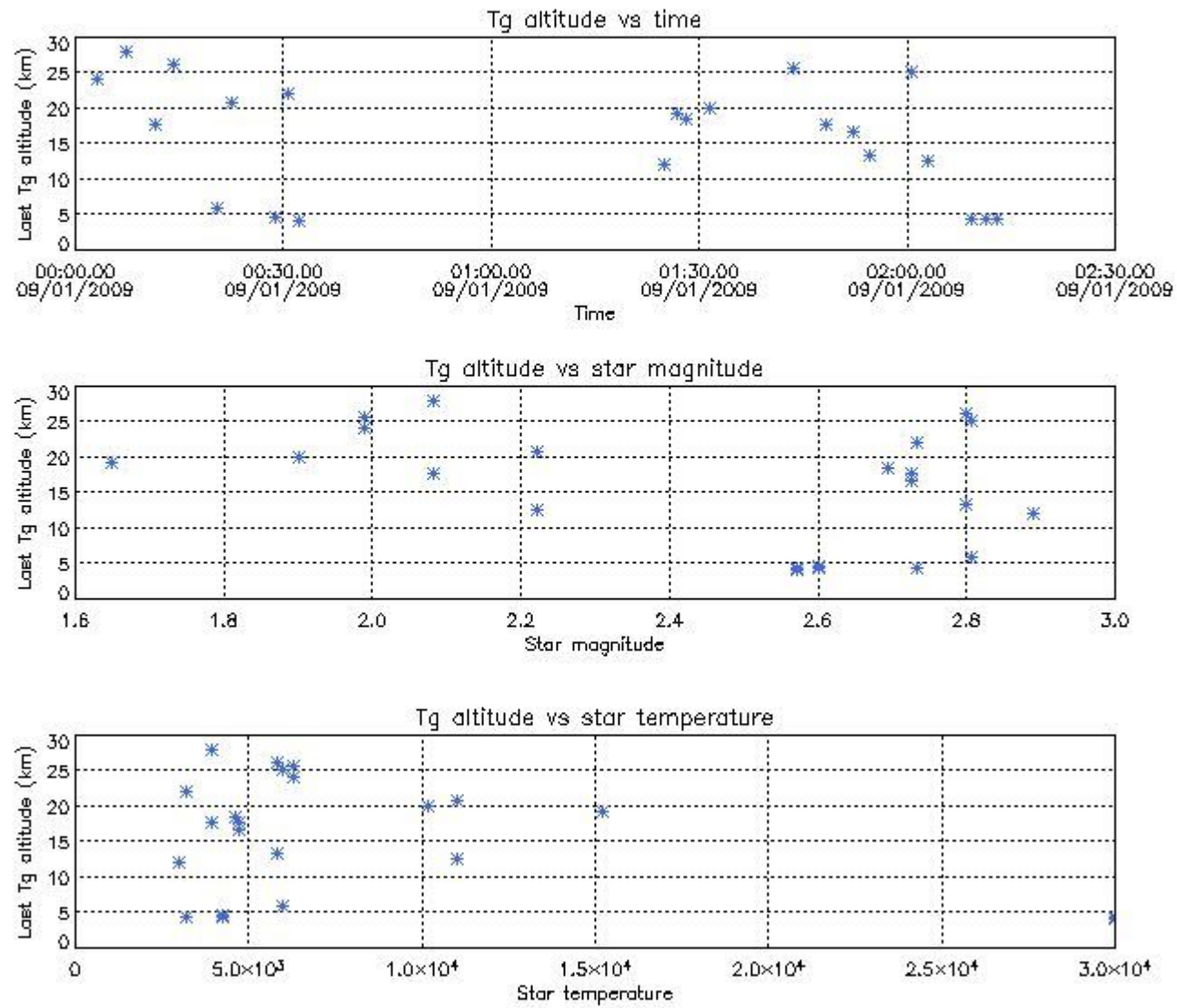
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

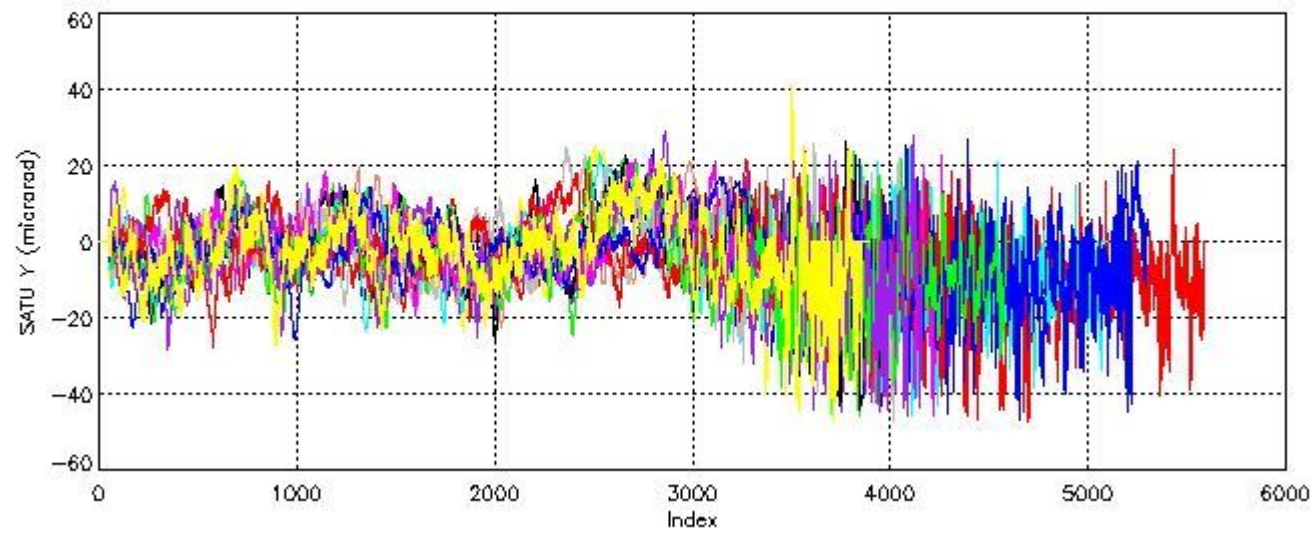
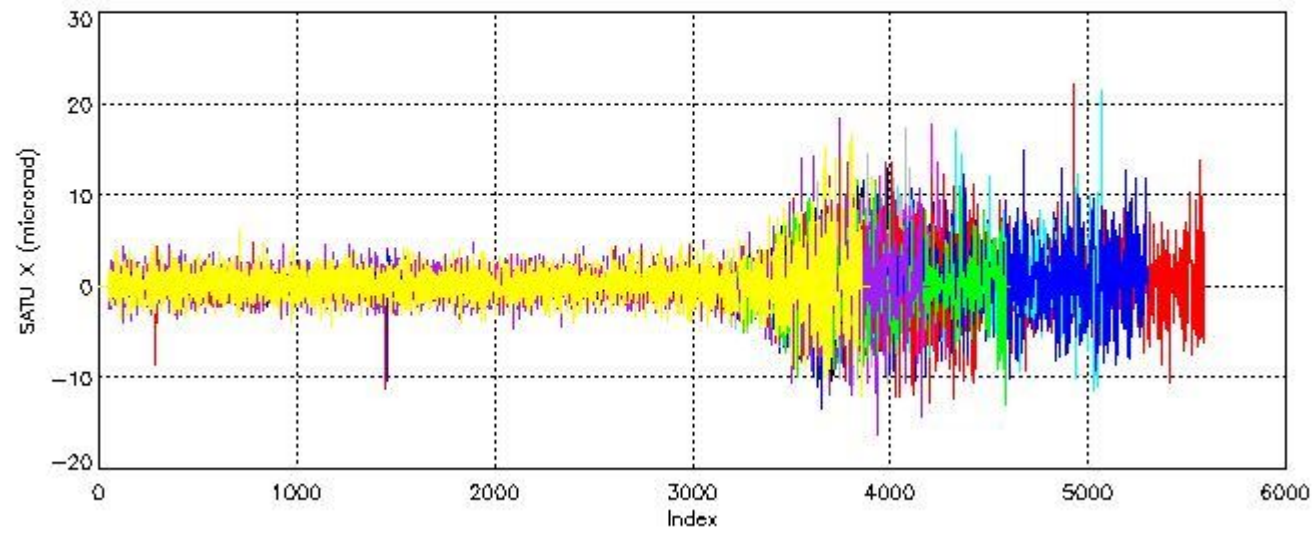


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.15603	-2.1336	0.058152	-0.64964
St. deviation:	0.60809	6.6139	0.70065	6.4967
Maximum:	6.1000	19.900	4.4000	24.100
Minimum:	-8.5000	-29.400	-3.8000	-22.800

Number of data:	14600.	14600.	19250.	19250.
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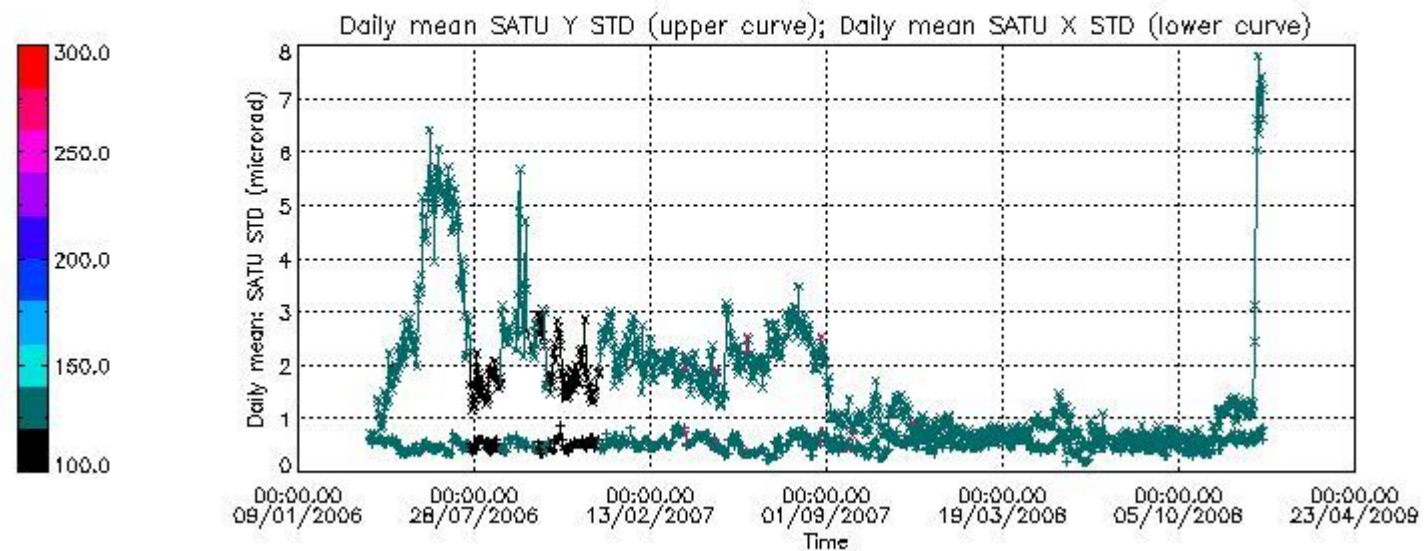
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

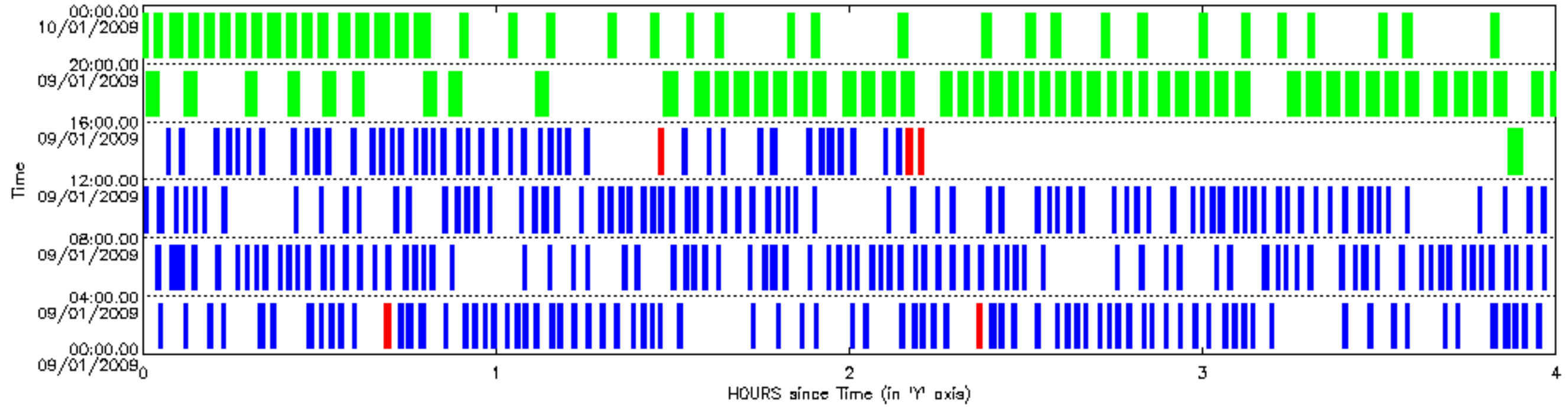
Lower curve: STD of SATU X axis

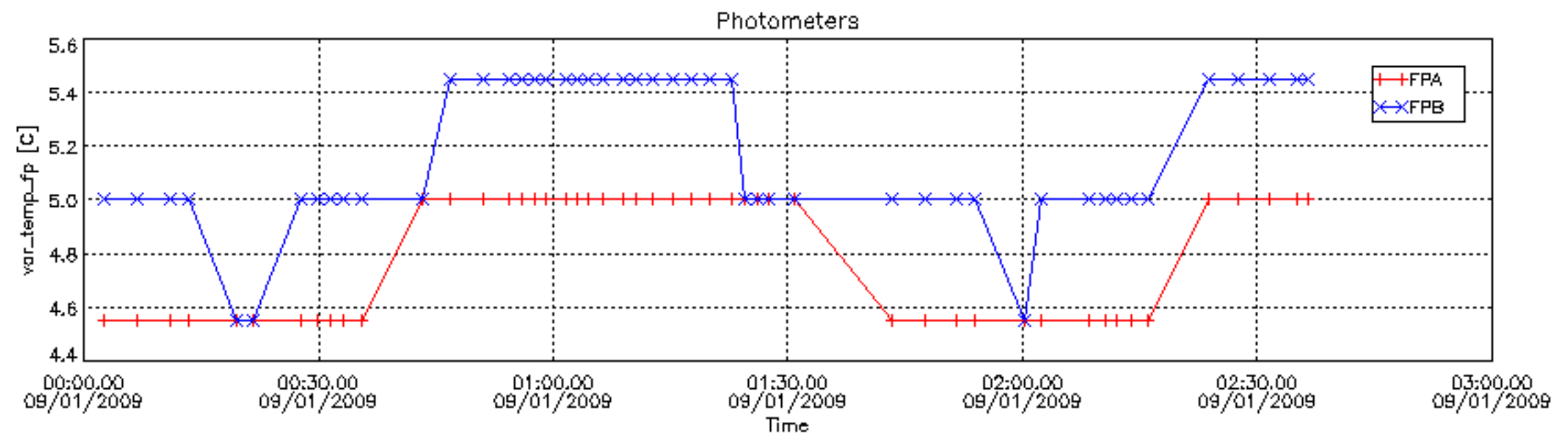
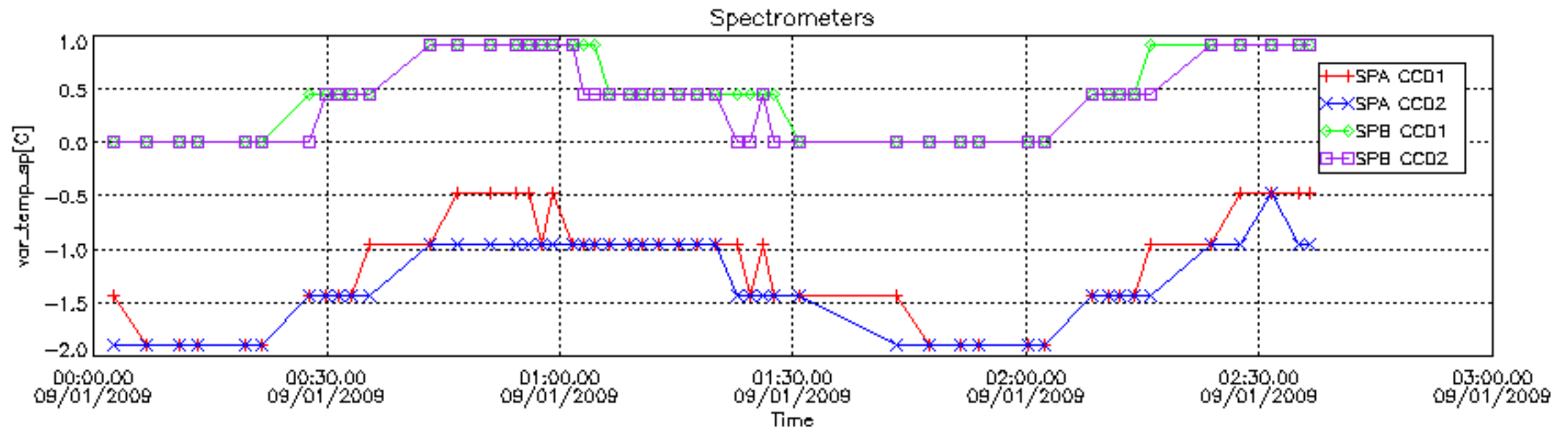


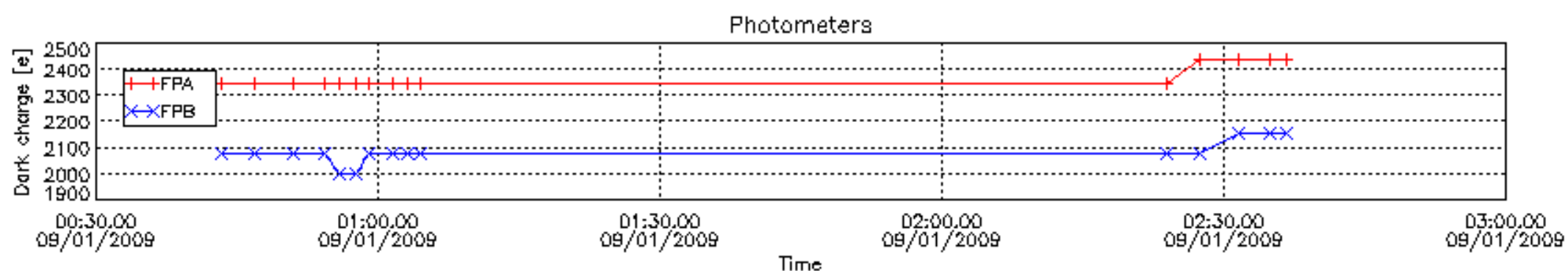
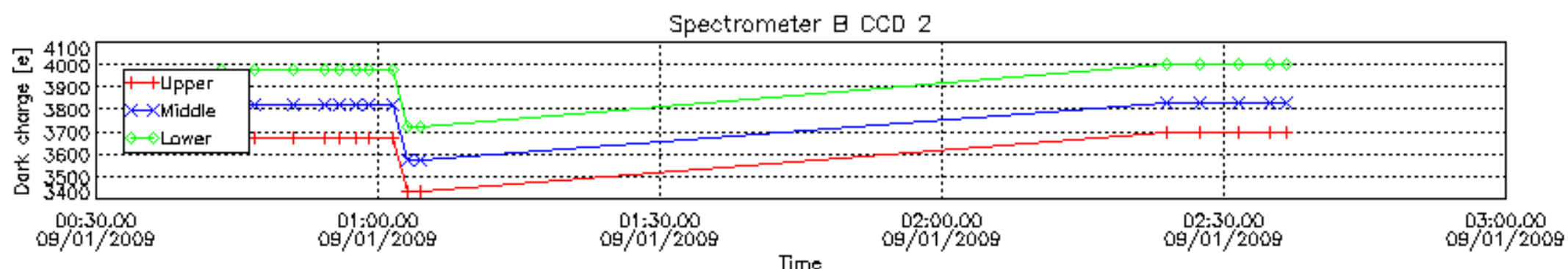
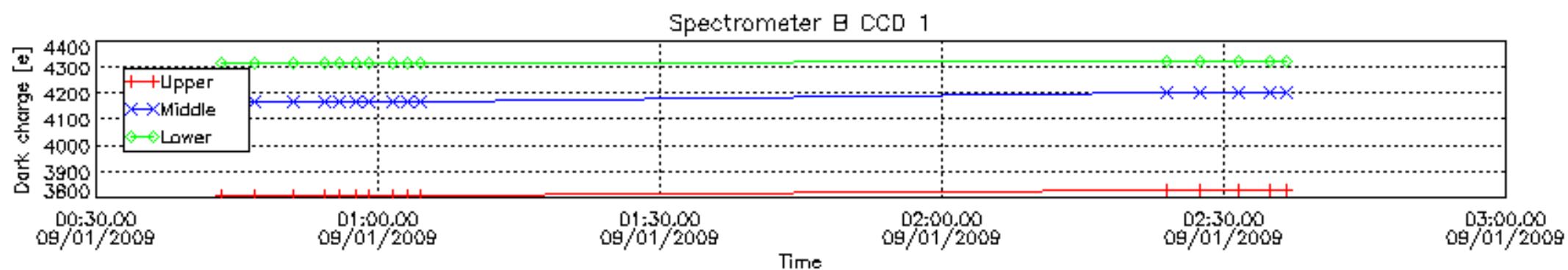
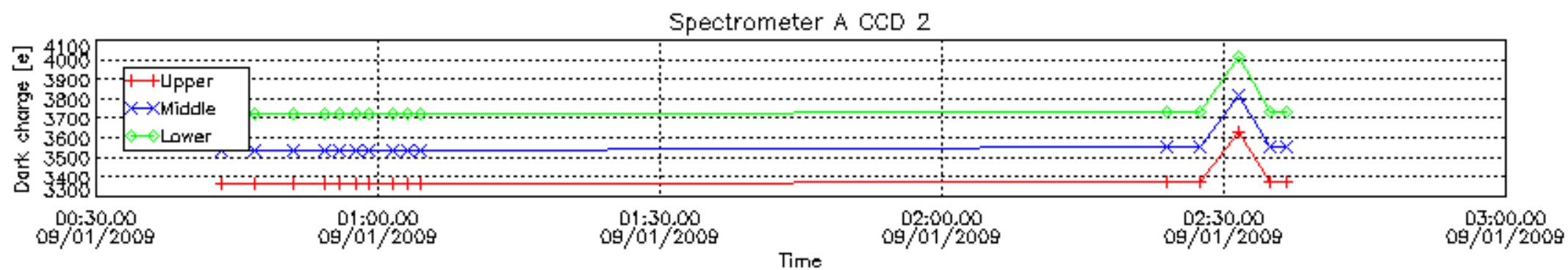
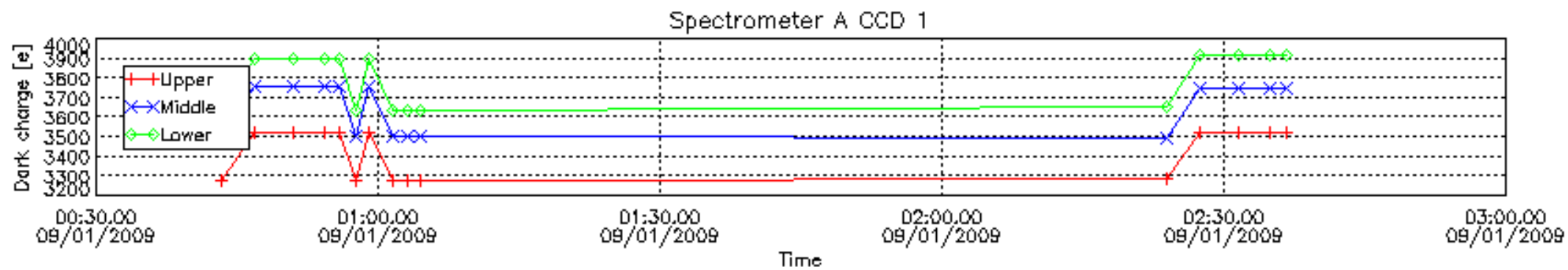
8. Auxiliary Data Files used for the production reported in section 2.4

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.

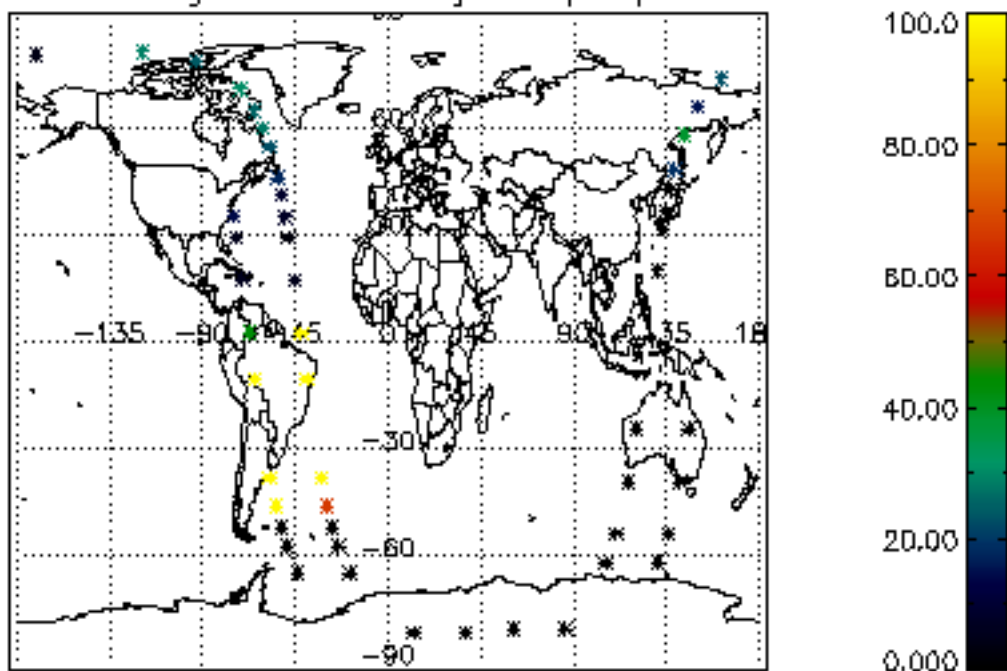
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	09-JAN-2009 00:02:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20081229_162214_20081227_000000_20100101_000000	1	09-JAN-2009 00:02:38
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	09-JAN-2009 00:02:38
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-JAN-2009 00:02:38
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	09-JAN-2009 00:02:38
ECMWF_FILE	AUX_ECF_AXNECM20090108_062111_20090108_210000_20090109_090000	1	09-JAN-2009 00:02:38
OPTIONAL_ECMWF_FILE	MISSING	1	09-JAN-2009 00:02:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090108_210319_000060572075_00243_35868_7122.N1	1	09-JAN-2009 00:02:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090108_224935_000057382075_00244_35869_7123.N1	11	09-JAN-2009 00:35:27
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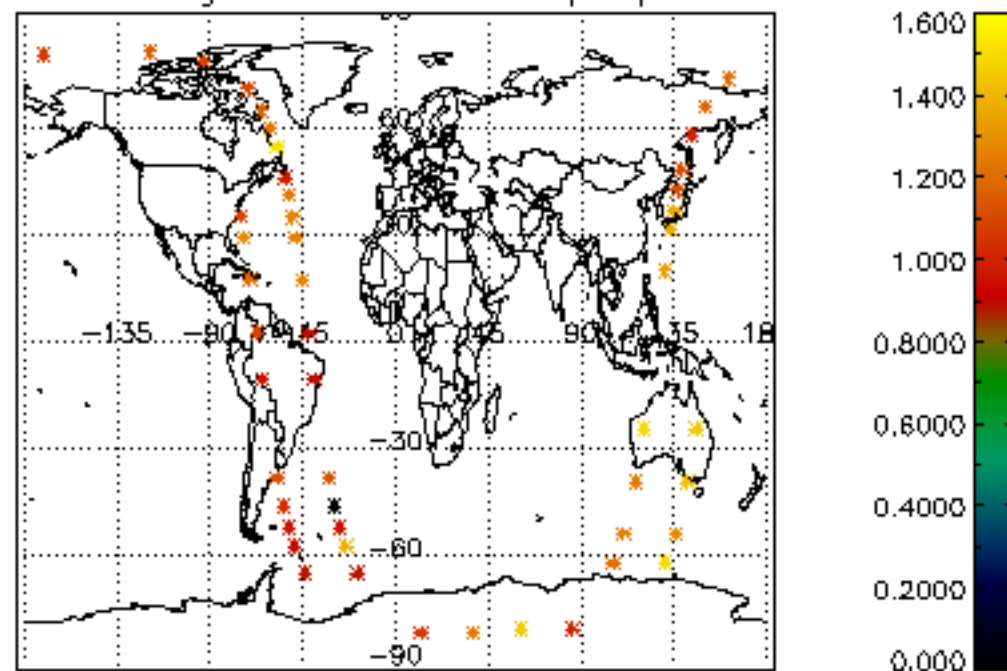




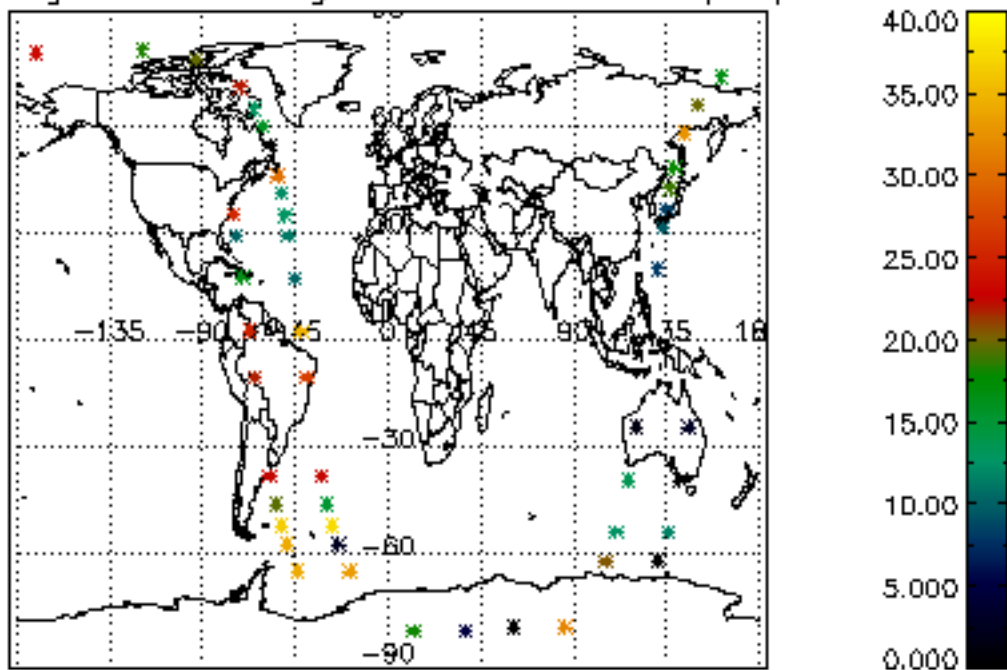
Percentage of cosmic ray hits per profile



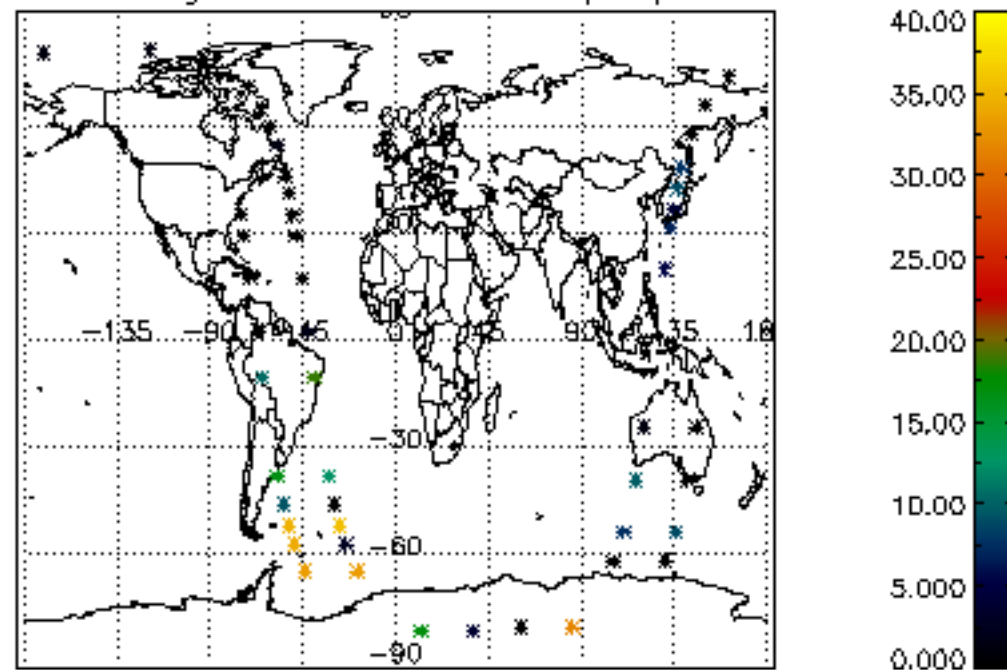
Percentage of datation errors per profile



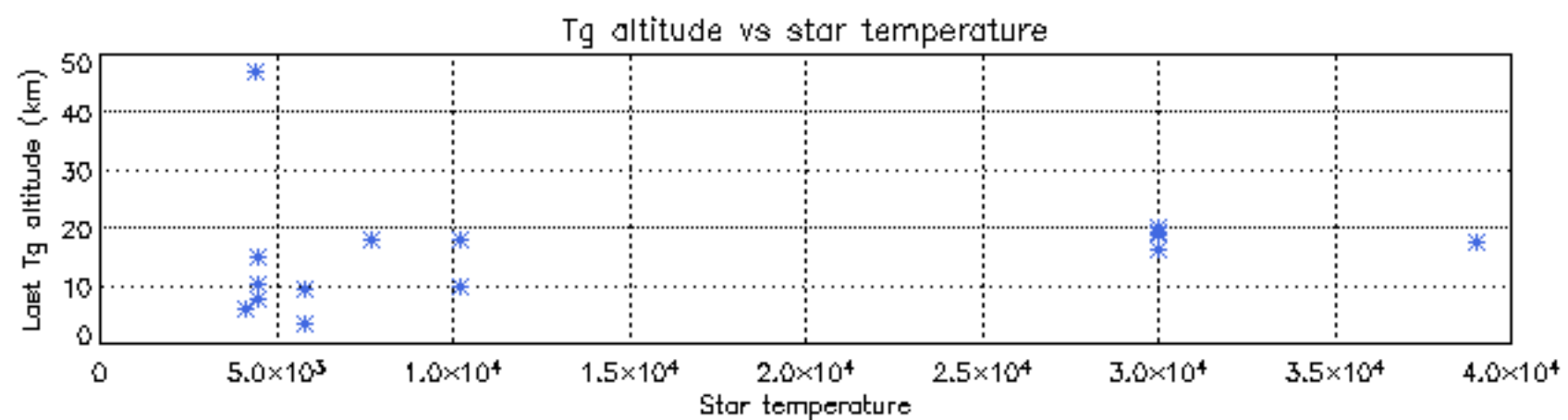
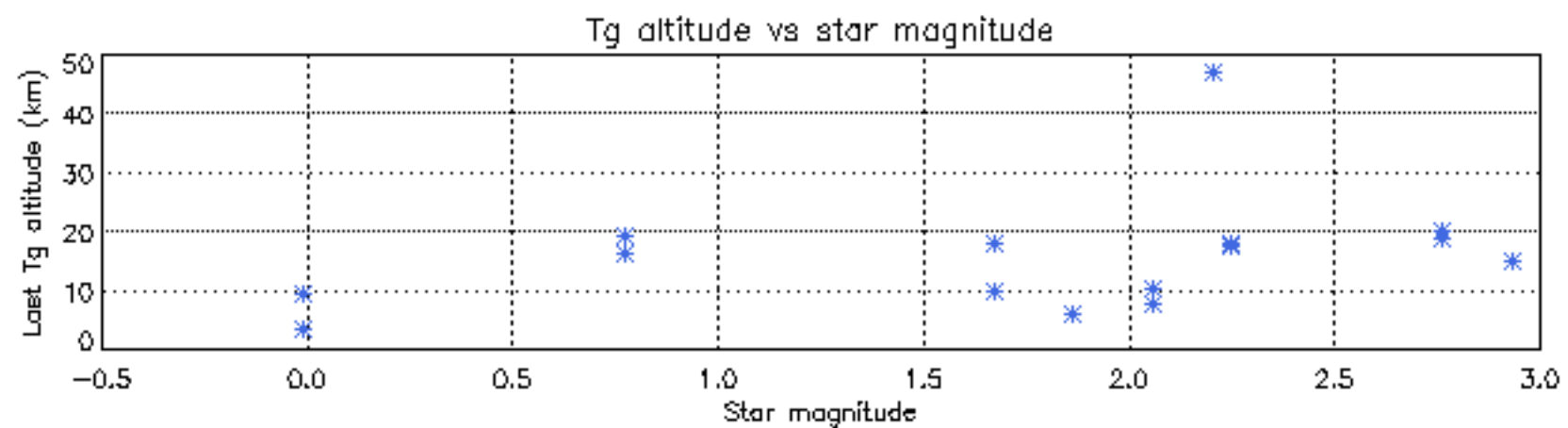
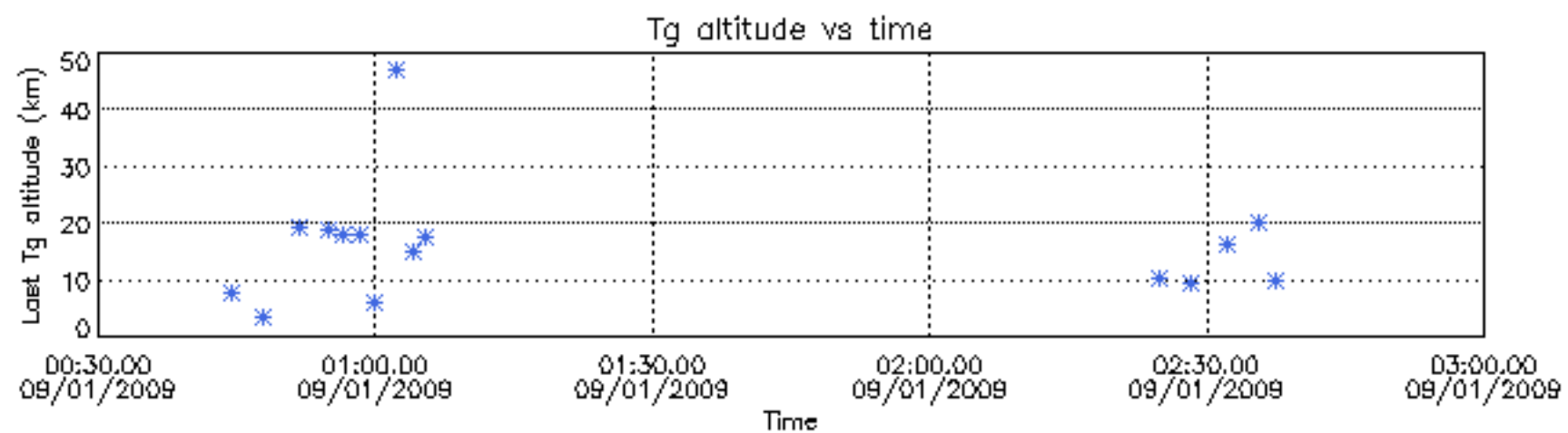
Percentage of star falling outside central band per profile



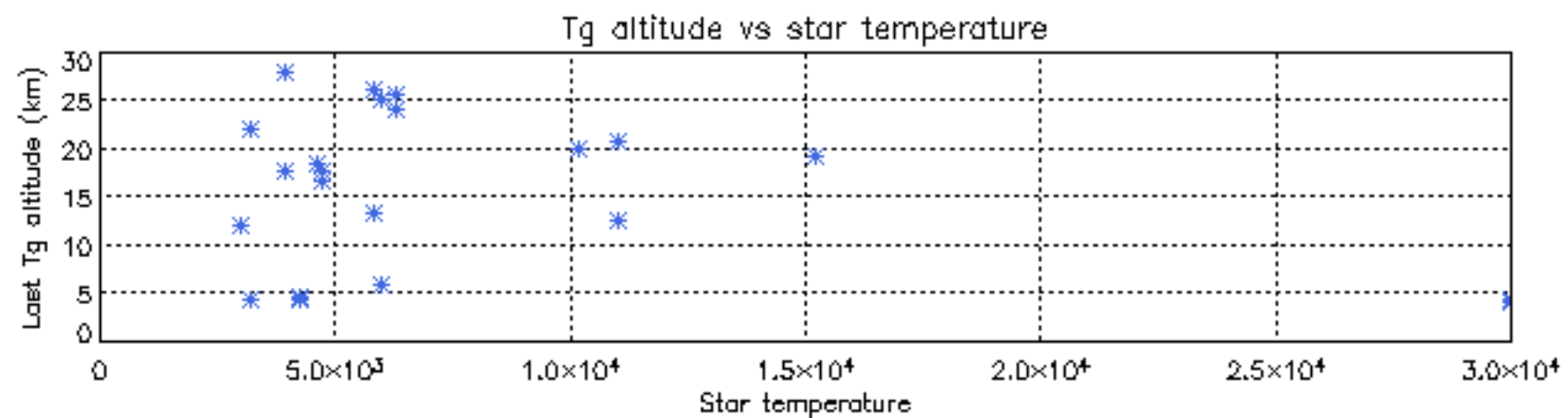
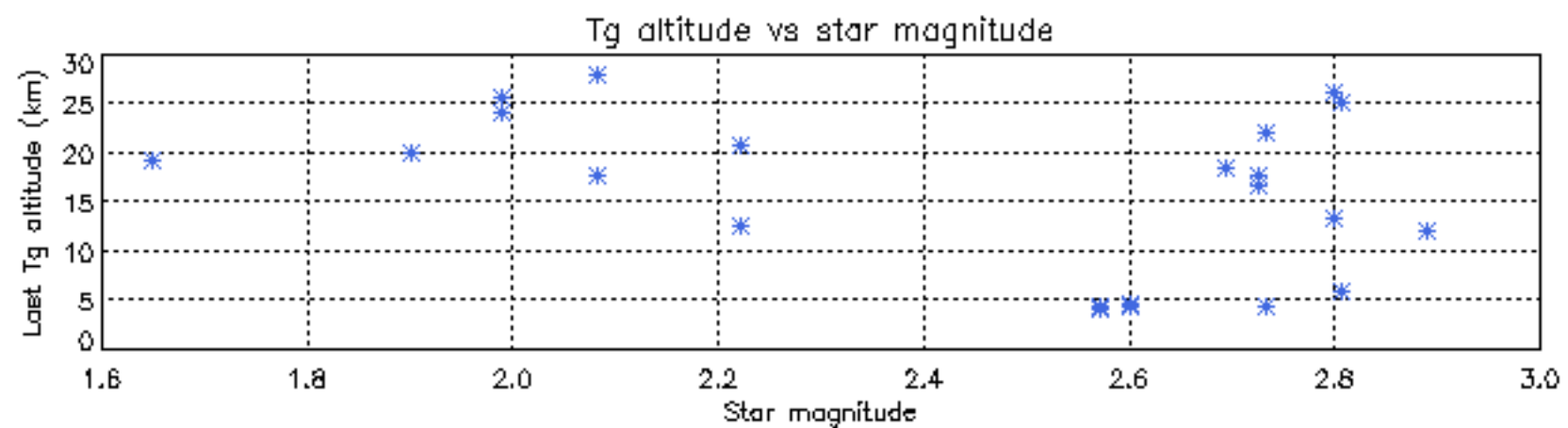
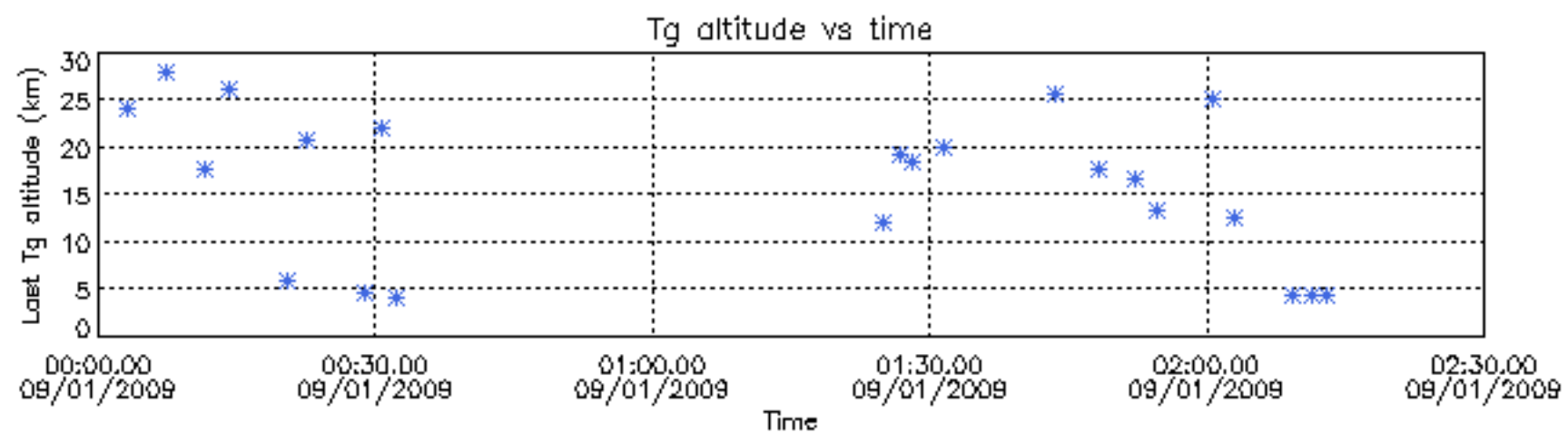
Percentage of saturation errors per profile

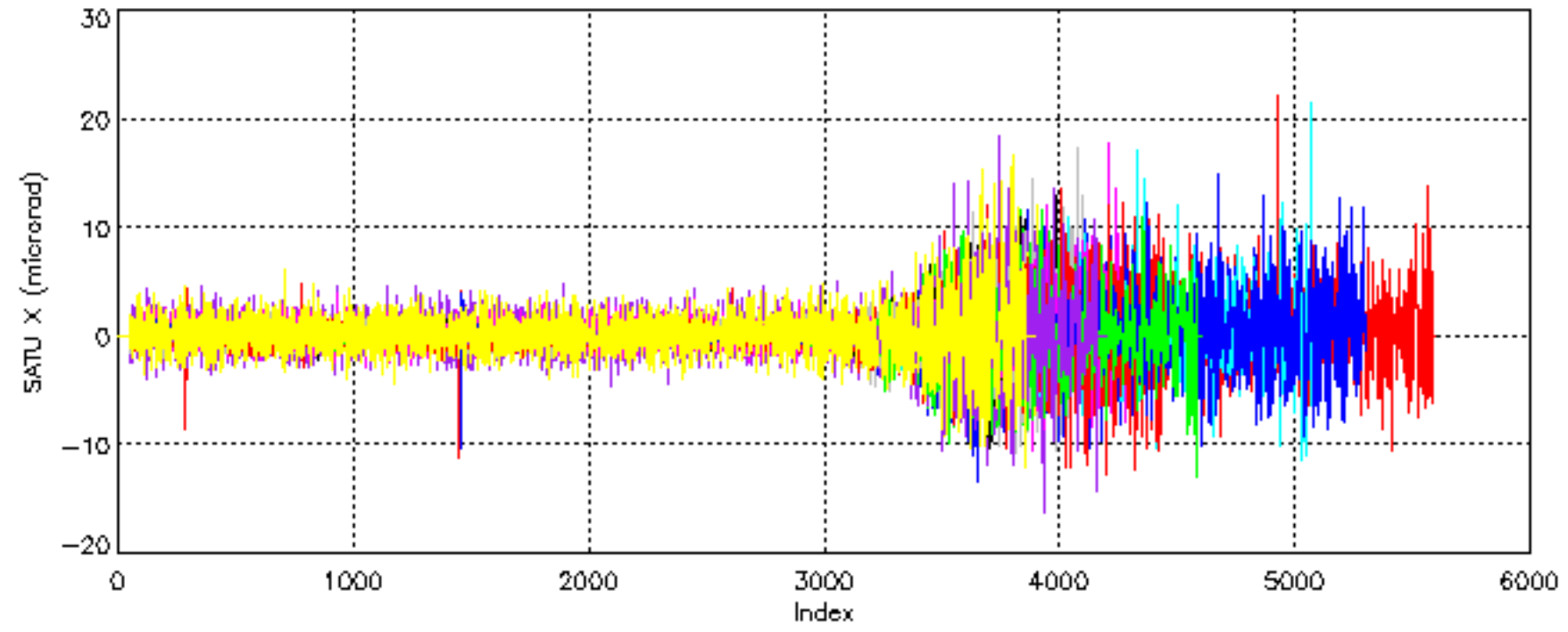


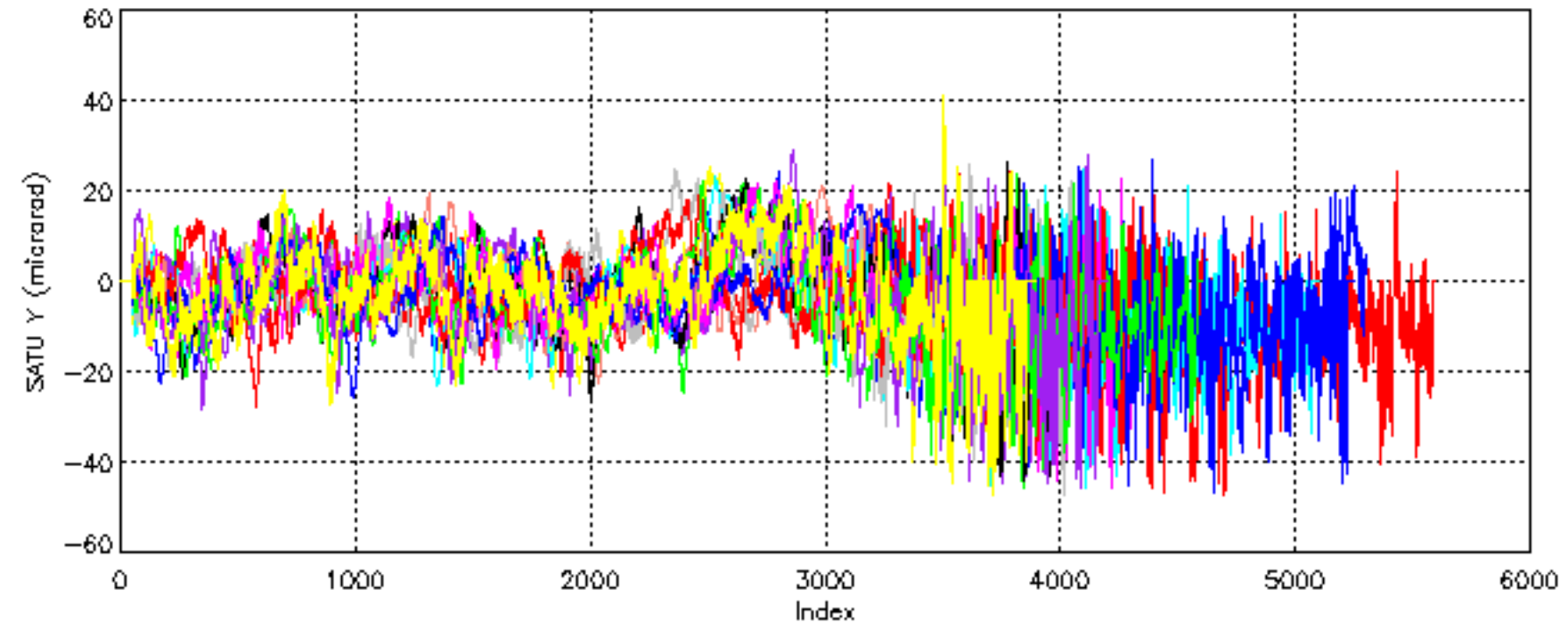
Tangent altitude at which the star is lost

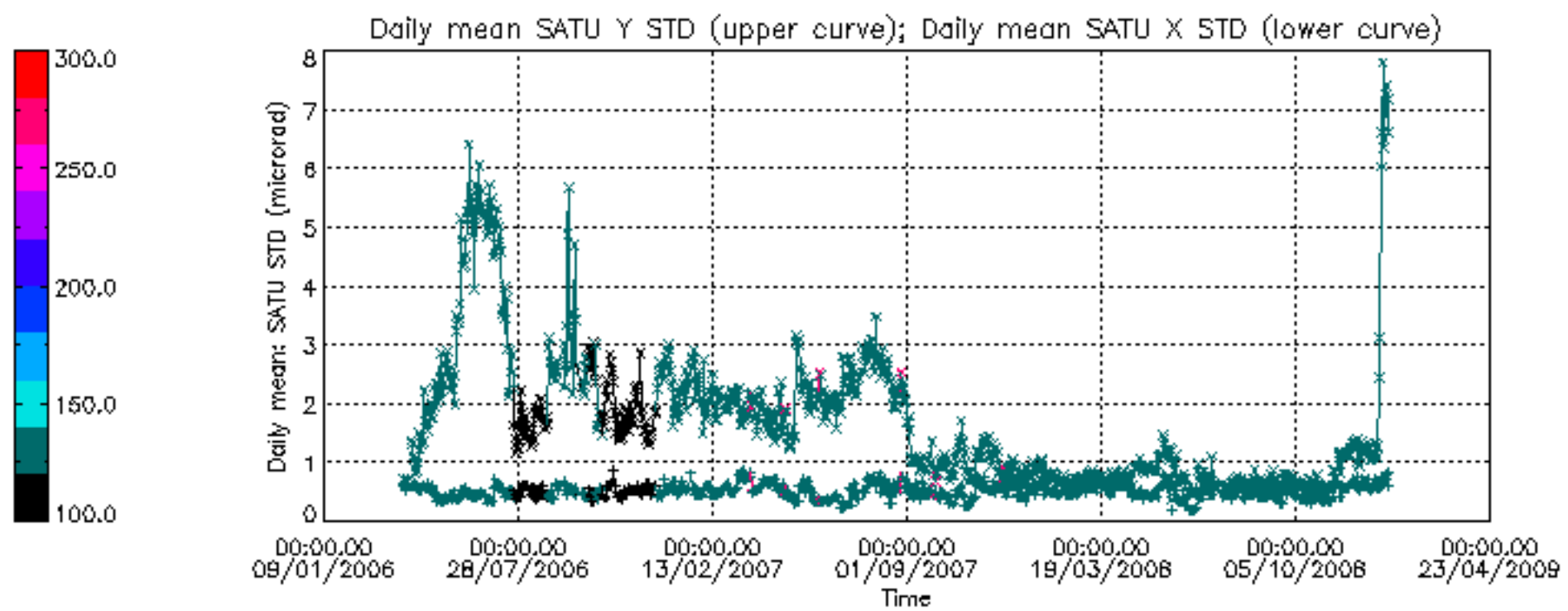


Tangent altitude at which the star is lost









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 3; 213.9; 01-JAN-2009 01:41:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35757
 4; 432.4; 01-JAN-2009 01:45:07; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;35757
 5; 548.6; 01-JAN-2009 01:47:03; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35757
 6; 632.8; 01-JAN-2009 01:48:27; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;35757
 7; 727.3; 01-JAN-2009 01:50:02; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;35757
 8; 979.7; 01-JAN-2009 01:54:14; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;35757
 9; 1174.3; 01-JAN-2009 01:57:29; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;35757
 10; 1341.9; 01-JAN-2009 02:00:16; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;35757
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 14; 1881.7; 01-JAN-2009 02:09:16; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35757
 15; 2032.5; 01-JAN-2009 02:11:47; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;35757
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 17; 2396.8; 01-JAN-2009 02:17:51; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35757
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 19; 2565.7; 01-JAN-2009 02:20:40; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35757
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19; 1772.6; 01-JAN-2009 22:14:38; Dark ; 43.0; 7; 19Bet Ori ; 0.10; 14000;occ; 86; 0;35769
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31;	4058.2;	04-JAN-2009	22:58:29;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	35812
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24; 5965.2; 04-JAN-2009 08:24:52; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;35803
25; 6052.1; 04-JAN-2009 08:26:19; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;35803
26; 6185.0; 04-JAN-2009 08:28:32; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;35803
27; 6293.7; 04-JAN-2009 08:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803
28; 6493.3; 04-JAN-2009 08:33:40; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35803
29; 6601.6; 04-JAN-2009 08:35:29; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;35803
30; 6693.5; 04-JAN-2009 08:37:01; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;35803
31; 6783.5; 04-JAN-2009 08:38:31; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;35803
32; 7027.8; 04-JAN-2009 08:42:35; Dark ; 44.0; 2; Alp Car ;-0.74; 7000;occ; 88; 0;35803
33; 7109.3; 04-JAN-2009 08:43:56; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35803
34; 7227.1; 04-JAN-2009 08:45:54; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;35803
35; 7390.8; 04-JAN-2009 08:48:38; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;35803
36; 7481.4; 04-JAN-2009 08:50:08; Dark ; 42.0; 179; 240mi2Cma ; 3.03; 24000;occ; 84; 0;35803
37; 7624.3; 04-JAN-2009 08:52:31; Dark ; 48.0; 1; 9Alp CMa ;-1.44; 11000;occ; 96; 0;35803
38; 7813.8; 04-JAN-2009 08:55:41; Dark ; 31.0; 7; 19Bet Ori ; 0.10; 14000;occ; 62; 0;35803

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6; 2474.7; 04-JAN-2009 09:07:18; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35804
7; 2555.3; 04-JAN-2009 09:08:38; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35804
8; 2689.5; 04-JAN-2009 09:10:52; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;35804
9; 3423.9; 04-JAN-2009 09:23:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;35804
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11; 3923.7; 04-JAN-2009 09:31:27; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;35804

12; 4056.8; 04-JAN-2009 09:33:40; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;35804
 13; 4430.3; 04-JAN-2009 09:39:53; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;35804
 14; 4555.8; 04-JAN-2009 09:41:59; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;35804
 15; 4906.6; 04-JAN-2009 09:47:50; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;35804
 16; 5043.1; 04-JAN-2009 09:50:06; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;35804
 17; 5219.4; 04-JAN-2009 09:53:02; Bright; 42.5; 104; 27Bet Lib ; 2.61; 13100;occ; 85; 0;35804
 18; 5386.3; 04-JAN-2009 09:55:49; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;35804
 19; 5694.8; 04-JAN-2009 10:00:58; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;35804
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 21; 5869.3; 04-JAN-2009 10:03:52; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;35804
 22; 5965.6; 04-JAN-2009 10:05:29; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;35804
 23; 6052.1; 04-JAN-2009 10:06:55; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;35804
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 25; 6294.6; 04-JAN-2009 10:10:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35804
 26; 6493.6; 04-JAN-2009 10:14:17; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35804
 27; 6602.2; 04-JAN-2009 10:16:05; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;35804
 28; 6694.1; 04-JAN-2009 10:17:37; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35804
 29; 6784.0; 04-JAN-2009 10:19:07; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;35804
 30; 7027.7; 04-JAN-2009 10:23:11; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;35804
 31; 7110.3; 04-JAN-2009 10:24:33; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35804
 32; 7227.1; 04-JAN-2009 10:26:30; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35804
 33; 7390.8; 04-JAN-2009 10:29:14; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;35804
 34; 7481.2; 04-JAN-2009 10:30:44; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0;35804
 35; 7624.4; 04-JAN-2009 10:33:07; Dark ; 53.0; 1; 9Alp CMa ;-1.44; 11000;occ; 106; 0;35804

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 3; 1885.6; 04-JAN-2009 10:38:04; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35805
 4; 2031.5; 04-JAN-2009 10:40:30; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;35805
 5; 2269.3; 04-JAN-2009 10:44:28; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;35805
 6; 2395.0; 04-JAN-2009 10:46:34; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35805
 7; 2475.1; 04-JAN-2009 10:47:54; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;35805
 8; 2555.3; 04-JAN-2009 10:49:14; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35805
 9; 2689.5; 04-JAN-2009 10:51:28; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;35805
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 11; 3685.0; 04-JAN-2009 11:08:04; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35805
 12; 3923.6; 04-JAN-2009 11:12:02; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;35805
 13; 4057.1; 04-JAN-2009 11:14:16; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;35805
 14; 4430.3; 04-JAN-2009 11:20:29; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;35805
 15; 4555.4; 04-JAN-2009 11:22:34; Bright; 40.5; 67; 5Alp CrB ; 2.22; 11000;occ; 81; 0;35805
 16; 4907.1; 04-JAN-2009 11:28:26; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;35805
 17; 5043.7; 04-JAN-2009 11:30:43; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;35805
 18; 5219.9; 04-JAN-2009 11:33:39; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;35805
 19; 5387.3; 04-JAN-2009 11:36:26; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;35805
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 22; 5869.1; 04-JAN-2009 11:44:28; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;35805
 23; 5966.9; 04-JAN-2009 11:46:06; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;35805
 24; 6052.7; 04-JAN-2009 11:47:32; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;35805
 25; 6186.3; 04-JAN-2009 11:49:45; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;35805
 26; 6295.5; 04-JAN-2009 11:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35805
 27; 6494.3; 04-JAN-2009 11:54:53; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35805
 28; 6602.6; 04-JAN-2009 11:56:41; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35805
 29; 6694.9; 04-JAN-2009 11:58:14; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;35805
 30; 6785.0; 04-JAN-2009 11:59:44; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;35805
 31; 7028.2; 04-JAN-2009 12:03:47; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;35805
 32; 7110.5; 04-JAN-2009 12:05:09; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;35805
 33; 7227.8; 04-JAN-2009 12:07:07; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35805
 34; 7391.0; 04-JAN-2009 12:09:50; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;35805
 35; 7481.4; 04-JAN-2009 12:11:20; Dark ; 43.0; 179; 240mi2CMa ; 3.03; 24000;occ; 86; 0;35805

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 4; 1885.0; 04-JAN-2009 12:18:40; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35806
 5; 2031.2; 04-JAN-2009 12:21:06; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;35806
 6; 2268.4; 04-JAN-2009 12:25:03; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;35806
 7; 2394.8; 04-JAN-2009 12:27:10; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;35806

8; 2474.8; 04-JAN-2009 12:28:30; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;35806
9; 2555.1; 04-JAN-2009 12:29:50; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35806
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11; 3423.4; 04-JAN-2009 12:44:18; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;35806
12; 3684.8; 04-JAN-2009 12:48:39; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;35806
13; 3923.8; 04-JAN-2009 12:52:39; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;35806
14; 4057.4; 04-JAN-2009 12:54:52; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;35806
15; 4430.3; 04-JAN-2009 13:01:05; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;35806
16; 4555.6; 04-JAN-2009 13:03:10; Bright; 56.0; 67; 5Alp CrB ; 2.22; 11000;occ; 112; 0;35806
17; 4907.4; 04-JAN-2009 13:09:02; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;35806
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19; 5220.2; 04-JAN-2009 13:14:15; Bright; 45.5; 104; 27Bet Lib ; 2.61; 13100;occ; 91; 0;35806
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21; 5695.5; 04-JAN-2009 13:22:10; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;35806
22; 5780.5; 04-JAN-2009 13:23:35; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;35806
23; 5870.0; 04-JAN-2009 13:25:05; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;35806
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26; 6187.3; 04-JAN-2009 13:30:22; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;35806
27; 6296.4; 04-JAN-2009 13:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35806
28; 6494.7; 04-JAN-2009 13:35:29; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35806
29; 6602.6; 04-JAN-2009 13:37:17; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;35806
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31; 6785.2; 04-JAN-2009 13:40:20; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;35806
32; 7028.6; 04-JAN-2009 13:44:23; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;35806
33; 7110.7; 04-JAN-2009 13:45:45; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;35806
34; 7228.2; 04-JAN-2009 13:47:43; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;35806
35; 7391.4; 04-JAN-2009 13:50:26; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;35806
36; 7481.3; 04-JAN-2009 13:51:56; Dark ; 43.5; 179; 240mi2Cma ; 3.03; 24000;occ; 87; 0;35806

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6; 2268.0; 04-JAN-2009 14:05:39; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;35807
7; 2394.6; 04-JAN-2009 14:07:45; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0;35807
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9; 2555.2; 04-JAN-2009 14:10:26; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35807
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13; 3924.0; 04-JAN-2009 14:33:15; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;35807
14; 4057.5; 04-JAN-2009 14:35:28; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;35807
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19; 5220.9; 04-JAN-2009 14:54:51; Bright; 42.0; 104; 27Bet Lib ; 2.61; 13100;occ; 84; 0;35807
20; 5388.5; 04-JAN-2009 14:57:39; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;35807
21; 5695.3; 04-JAN-2009 15:02:46; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;35807
22; 5781.3; 04-JAN-2009 15:04:12; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;35807
23; 5870.7; 04-JAN-2009 15:05:41; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;35807
24; 5968.4; 04-JAN-2009 15:07:19; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;35807
25; 6053.4; 04-JAN-2009 15:08:44; Dark ; 52.5; 4; Alp1Cen ;-0.01; 5800;occ; 105; 0;35807
26; 6188.2; 04-JAN-2009 15:10:59; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;35807
27; 6297.5; 04-JAN-2009 15:12:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35807
28; 6495.2; 04-JAN-2009 15:16:06; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35807
29; 6603.1; 04-JAN-2009 15:17:54; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35807
30; 6695.9; 04-JAN-2009 15:19:26; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;35807
31; 6785.6; 04-JAN-2009 15:20:56; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;35807
32; 7028.6; 04-JAN-2009 15:24:59; Dark ; 37.0; 2; Alp Car ;-0.74; 7000;occ; 74; 0;35807
33; 7111.4; 04-JAN-2009 15:26:22; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;35807
34; 7228.1; 04-JAN-2009 15:28:19; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;35807
35; 7391.3; 04-JAN-2009 15:31:02; Dark ; 29.5; 23; 21Eps Cma ; 1.50; 26000;occ; 59; 0;35807

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15;	3671.1;	11-JAN-2009	17:30:06;	Bright;		43.5;	60;	7Bet UMi	;	2.08;	3950;occ;	87;	0;	35909
16;	3923.7;	11-JAN-2009	17:34:19;	Bright;		40.5;	119;	14Eta Dra	;	2.73;	4700;occ;	81;	0;	35909
17;	4071.5;	11-JAN-2009	17:36:46;	Bright;		34.0;	130;	23Bet Dra	;	2.80;	5800;occ;	68;	0;	35909
18;	4446.4;	11-JAN-2009	17:43:01;	Bright;		53.0;	133;	40Zet Her	;	2.81;	6000;occ;	106;	0;	35909
19;	4576.3;	11-JAN-2009	17:45:11;	Bright;		60.0;	67;	5Alp CrB	;	2.22;	11000;occ;	120;	0;	35909
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21;	5077.7;	11-JAN-2009	17:53:33;	Bright;		54.0;	120;	1Del Oph	;	2.73;	3200;occ;	108;	0;	35909
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27;	5926.8;	11-JAN-2009	18:07:42;	Dark	;	43.5;	78;	Alp Lup	;	2.30;	28000;occ;	87;	0;	35909
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 25; 6541.2; 24-JAN-2009 09:46:18; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36090
 26; 6691.3; 24-JAN-2009 09:48:48; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;36090
 27; 6822.3; 24-JAN-2009 09:50:59; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36090
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 31; 7302.6; 24-JAN-2009 09:58:59; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;36090
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 33; 7534.6; 24-JAN-2009 10:02:51; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;36090
 34; 7663.6; 24-JAN-2009 10:05:00; Dark ; 41.5; 1; 9Alp CMA ;-1.44; 11000;occ; 83; 0;36090

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 33; 7535.2; 24-JAN-2009 11:43:28; Dark ; 36.5; 179; 240mi2CMA ; 3.03; 24000;occ; 73; 0;36091

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 22; 6072.9; 24-JAN-2009 12:59:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36092
 23; 6176.9; 24-JAN-2009 13:01:25; Dark ; 40.0; 4; Alp1Cen ;-0.01; 5800;occ; 80; 0;36092
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 33; 7451.8; 24-JAN-2009 13:22:40; Dark ; 36.5; 23; 21Eps CMA ; 1.50; 26000;occ; 73; 0;36092

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 8; 417.9; 25-JAN-2009 00:50:14; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;36100
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 13; 1053.6; 25-JAN-2009 01:00:49; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;36100
 14; 1180.4; 25-JAN-2009 01:02:56; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36100
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31; 4674.9; 25-JAN-2009 02:01:10; Bright; 42.0; 127; 27Bet Her ; 2.78; 4700;occ; 84; 0;36100
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 30; 6936.9; 25-JAN-2009 14:23:04; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;36107
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18;	6228.2;	31-JAN-2009	12:42:09;	Dark	;	34.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	69;	0;	36192
19;	6344.6;	31-JAN-2009	12:44:06;	Dark	;	37.5;	77;	Eps Cen	;	2.30;	28000;occ;	75;	0;	36192
20;	6504.4;	31-JAN-2009	12:46:46;	Dark	;	34.0;	12;	Alp1Cru	;	0.77;	30000;occ;	68;	0;	36192
21;	6624.7;	31-JAN-2009	12:48:46;	Dark	;	39.0;	99;	Del Cen	;	2.58;	26000;occ;	78;	0;	36192
22;	6743.6;	31-JAN-2009	12:50:45;	Dark	;	31.5;	159;	Ups Car	;	2.92;	7200;occ;	63;	0;	36192
23;	6858.6;	31-JAN-2009	12:52:40;	Dark	;	31.5;	71;	Iot Car	;	2.25;	7700;occ;	63;	0;	36192
24;	6963.8;	31-JAN-2009	12:54:25;	Dark	;	31.0;	46;	Del Vel	;	1.95;	10600;occ;	62;	0;	36192
25;	7115.0;	31-JAN-2009	12:56:56;	Dark	;	30.5;	34;	Gam2Vel	;	1.79;	23000;occ;	61;	0;	36192
26;	7240.2;	31-JAN-2009	12:59:01;	Dark	;	31.0;	70;	Zet Pup	;	2.25;	39000;occ;	62;	0;	36192
27;	7447.5;	31-JAN-2009	13:02:29;	Dark	;	29.5;	88;	31Eta CMa	;	2.45;	20000;occ;	59;	0;	36192