

GOMOS Daily Report 19-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	22JAN2009 05:40:13
Data source version	GOMOS/5.00
Start time of products	19JAN2009 00:05:32
Stop time of products	19JAN2009 02:48:50
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	2

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

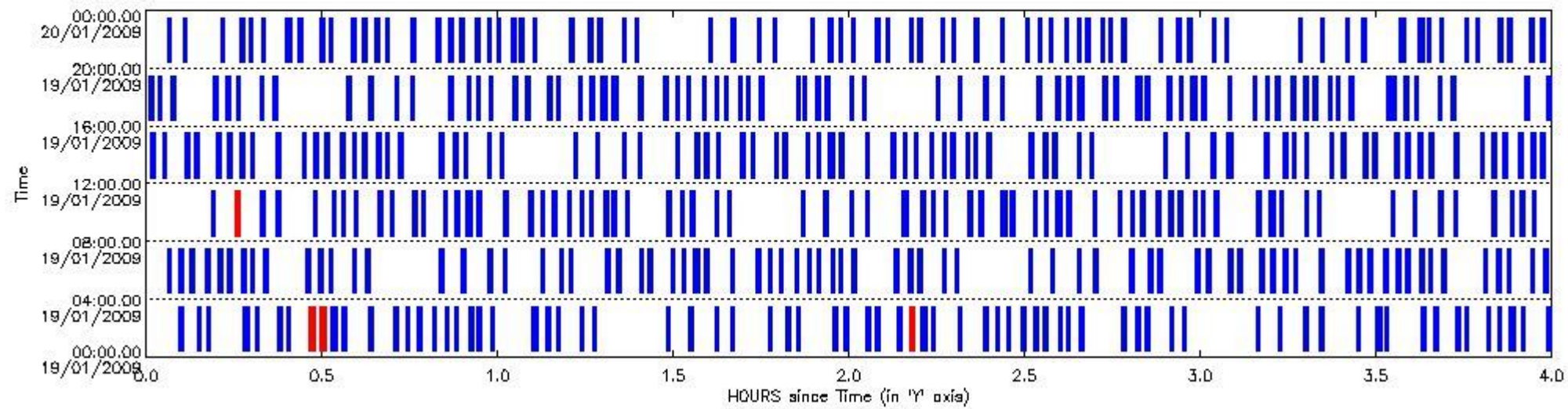
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

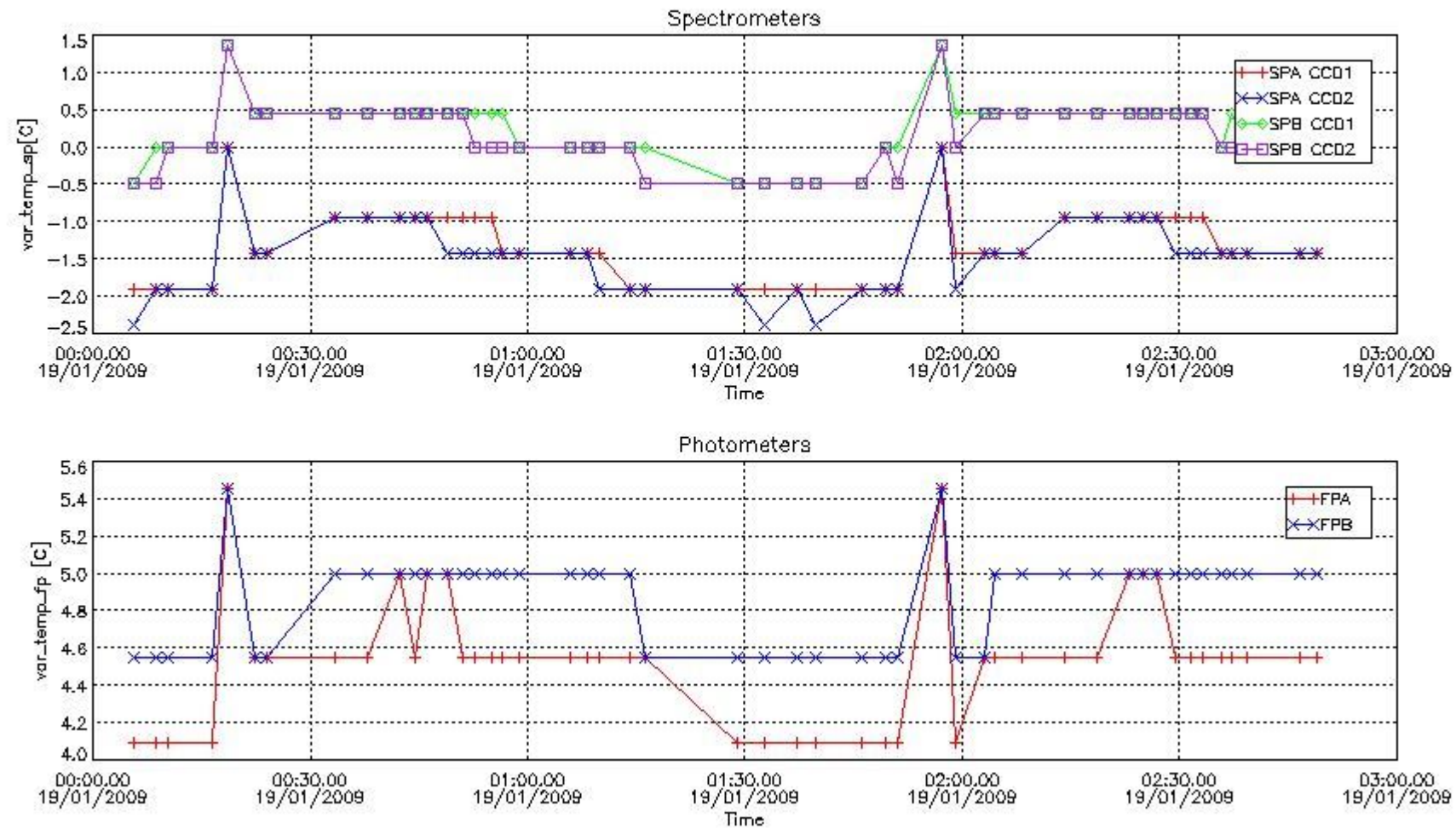
UTC start time	Star name	Star ID	Orbit
19-JAN-2009 00:27:45	GamLup	131	36013
19-JAN-2009 00:29:37	BetLup	109	36013
19-JAN-2009 02:10:14	BetLup	109	36014
19-JAN-2009 08:15:05	7BetUMi	60	36018

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_1PNPDE20090119_000532_000000552075_00388_36013_2984.N1	19-JAN-2009 00:05:32	Bright	55.000	133	40Zet Her	2.8070	6000.0	110	36013	No
2	GOM_TRA_1PNPDE20090119_000843_000000392075_00388_36013_2985.N1	19-JAN-2009 00:08:43	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	36013	No
3	GOM_TRA_1PNPDE20090119_001023_000000342075_00388_36013_2986.N1	19-JAN-2009 00:10:23	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	36013	No
4	GOM_TRA_1PNPDE20090119_001634_000000582075_00388_36013_2987.N1	19-JAN-2009 00:16:34	Bright	58.000	120	1Del Oph	2.7340	3200.0	116	36013	No
5	GOM_TRA_1PNPDE20090119_001834_000000452075_00388_36013_3101.N1	19-JAN-2009 00:18:34	Bright	44.500	86	35Eta Oph	2.4300	10200.0	89	36013	Yes
6	GOM_TRA_1PNPDE20090119_002220_000000442075_00388_36013_3102.N1	19-JAN-2009 00:22:20	Twilight	44.000	16	21Alp Sco	1.0200	3000.0	88	36013	No
7	GOM_TRA_1PNPDE20090119_002355_000000412075_00388_36013_3103.N1	19-JAN-2009 00:23:55	Twilight	40.500	75	26Eps Sco	2.2910	4250.0	81	36013	No

8	GOM_TRA_1PNPDE20090119_003328_000000462075_00389_36014_3104.N1	19-JAN-2009 00:33:28	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	36014	No
9	GOM_TRA_1PNPDE20090119_003756_000000432075_00389_36014_3105.N1	19-JAN-2009 00:37:56	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	36014	No
10	GOM_TRA_1PNPDE20090119_004220_000000382075_00389_36014_3106.N1	19-JAN-2009 00:42:20	Dark	37.500	29	Bet Car	1.6720	10200.	75	36014	No
11	GOM_TRA_1PNPDE20090119_004422_000000392075_00389_36014_3107.N1	19-JAN-2009 00:44:22	Dark	39.000	71	lot Car	2.2460	7700.0	78	36014	No
12	GOM_TRA_1PNPDE20090119_004612_000000452075_00389_36014_3108.N1	19-JAN-2009 00:46:12	Dark	44.500	46	Del Vel	1.9540	10600.	89	36014	No
13	GOM_TRA_1PNPDE20090119_004853_000000382075_00389_36014_3109.N1	19-JAN-2009 00:48:53	Dark	38.000	34	Gam2Vel	1.7930	23000.	76	36014	No
14	GOM_TRA_1PNPDE20090119_005102_000000422075_00389_36014_3110.N1	19-JAN-2009 00:51:02	Dark	42.000	70	Zet Pup	2.2460	39000.	84	36014	No
15	GOM_TRA_1PNPDE20090119_005236_000000442075_00389_36014_3111.N1	19-JAN-2009 00:52:36	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	36014	No
16	GOM_TRA_1PNPDE20090119_005507_000000442075_00389_36014_3112.N1	19-JAN-2009 00:55:07	Straylight	43.500	23	21Eps CMa	1.5020	26000.	87	36014	No
17	GOM_TRA_1PNPDE20090119_005632_000000392075_00389_36014_3113.N1	19-JAN-2009 00:56:32	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	36014	No
18	GOM_TRA_1PNPDE20090119_005843_000000432075_00389_36014_3114.N1	19-JAN-2009 00:58:43	Straylight	43.000	1	9Alp CMa	-1.4400	11000.	86	36014	No
19	GOM_TRA_1PNPDE20090119_010552_000000522075_00389_36014_3115.N1	19-JAN-2009 01:05:52	Twilight	52.000	14	58Alp Ori	0.87000	3000.0	104	36014	No
20	GOM_TRA_1PNPDE20090119_010813_000000492075_00389_36014_3116.N1	19-JAN-2009 01:08:13	Bright	49.000	44	24Gam Gem	1.9280	11000.	98	36014	No
21	GOM_TRA_1PNPDE20090119_010957_000000402075_00389_36014_3117.N1	19-JAN-2009 01:09:57	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	36014	No
22	GOM_TRA_1PNPDE20090119_011408_000000362075_00389_36014_3118.N1	19-JAN-2009 01:14:08	Bright	36.000	107	37The Aur	2.6490	11000.	72	36014	No
23	GOM_TRA_1PNPDE20090119_011618_000000372075_00389_36014_3119.N1	19-JAN-2009 01:16:18	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	36014	No
24	GOM_TRA_1PNPDE20090119_012852_000000332075_00389_36014_3120.N1	19-JAN-2009 01:28:52	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	36014	No
25	GOM_TRA_1PNPDE20090119_013240_000000502075_00389_36014_3121.N1	19-JAN-2009 01:32:40	Bright	50.000	60	7Bet UMi	2.0810	3950.0	100	36014	No
26	GOM_TRA_1PNPDE20090119_013705_000000402075_00389_36014_3122.N1	19-JAN-2009 01:37:05	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	36014	No
27	GOM_TRA_1PNPDE20090119_013948_000000372075_00389_36014_3123.N1	19-JAN-2009 01:39:48	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	36014	No
28	GOM_TRA_1PNPDE20090119_014608_000000432075_00389_36014_3124.N1	19-JAN-2009 01:46:08	Bright	43.000	133	40Zet Her	2.8070	6000.0	86	36014	No
29	GOM_TRA_1PNPDE20090119_014919_000000392075_00389_36014_3125.N1	19-JAN-2009 01:49:19	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	36014	No
30	GOM_TRA_1PNPDE20090119_015059_000000342075_00389_36014_3126.N1	19-JAN-2009 01:50:59	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	36014	No
31	GOM_TRA_1PNPDE20090119_015710_000000492075_00389_36014_3259.N1	19-JAN-2009 01:57:10	Bright	49.000	120	1Del Oph	2.7340	3200.0	98	36014	Yes
32	GOM_TRA_1PNPDE20090119_015909_000000522075_00389_36014_3260.N1	19-JAN-2009 01:59:09	Bright	52.000	86	35Eta Oph	2.4300	10200.	104	36014	No
33	GOM_TRA_1PNPDE20090119_020256_000000462075_00389_36014_3261.N1	19-JAN-2009 02:02:56	Twilight	46.000	16	21Alp Sco	1.0200	3000.0	92	36014	No
34	GOM_TRA_1PNPDE20090119_020432_000000452075_00389_36014_3262.N1	19-JAN-2009 02:04:32	Twilight	44.500	75	26Eps Sco	2.2910	4250.0	89	36014	No
35	GOM_TRA_1PNPDE20090119_020820_000000402075_00389_36014_3263.N1	19-JAN-2009 02:08:20	Dark	39.500	131	Gam Lup	2.8000	26000.	79	36014	No
36	GOM_TRA_1PNPDE20090119_021405_000000412075_00390_36015_3264.N1	19-JAN-2009 02:14:05	Dark	40.500	4	Alp1Cen	-0.010000	5800.0	81	36015	No
37	GOM_TRA_1PNPDE20090119_021833_000000422075_00390_36015_3265.N1	19-JAN-2009 02:18:33	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	36015	No
38	GOM_TRA_1PNPDE20090119_022257_000000432075_00390_36015_3266.N1	19-JAN-2009 02:22:57	Dark	43.000	29	Bet Car	1.6720	10200.	86	36015	No
39	GOM_TRA_1PNPDE20090119_022459_000000392075_00390_36015_3267.N1	19-JAN-2009 02:24:59	Dark	38.500	71	lot Car	2.2460	7700.0	77	36015	No
40	GOM_TRA_1PNPDE20090119_022649_000000392075_00390_36015_3268.N1	19-JAN-2009 02:26:49	Dark	38.500	46	Del Vel	1.9540	10600.	77	36015	No
41	GOM_TRA_1PNPDE20090119_022930_000000372075_00390_36015_3269.N1	19-JAN-2009 02:29:30	Dark	37.000	34	Gam2Vel	1.7930	23000.	74	36015	No
42	GOM_TRA_1PNPDE20090119_023137_000000432075_00390_36015_3270.N1	19-JAN-2009 02:31:37	Dark	42.500	70	Zet Pup	2.2460	39000.	85	36015	No
43	GOM_TRA_1PNPDE20090119_023313_000000442075_00390_36015_3271.N1	19-JAN-2009 02:33:13	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	36015	No
44	GOM_TRA_1PNPDE20090119_023544_000000422075_00390_36015_3272.N1	19-JAN-2009 02:35:44	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	36015	No
45	GOM_TRA_1PNPDE20090119_023708_000000402075_00390_36015_3273.N1	19-JAN-2009 02:37:08	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	36015	No
46	GOM_TRA_1PNPDE20090119_023919_000000522075_00390_36015_3274.N1	19-JAN-2009 02:39:19	Straylight	51.500	1	9Alp CMa	-1.4400	11000.	103	36015	No
47	GOM_TRA_1PNPDE20090119_024628_000000462075_00390_36015_3275.N1	19-JAN-2009 02:46:28	Twilight	46.000	14	58Alp Ori	0.87000	3000.0	92	36015	No
48	GOM_TRA_1PNPDE20090119_024850_000000512075_00390_36015_3276.N1	19-JAN-2009 02:48:50	Bright	50.500	44	24Gam Gem	1.9280	11000.	101	36015	No

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



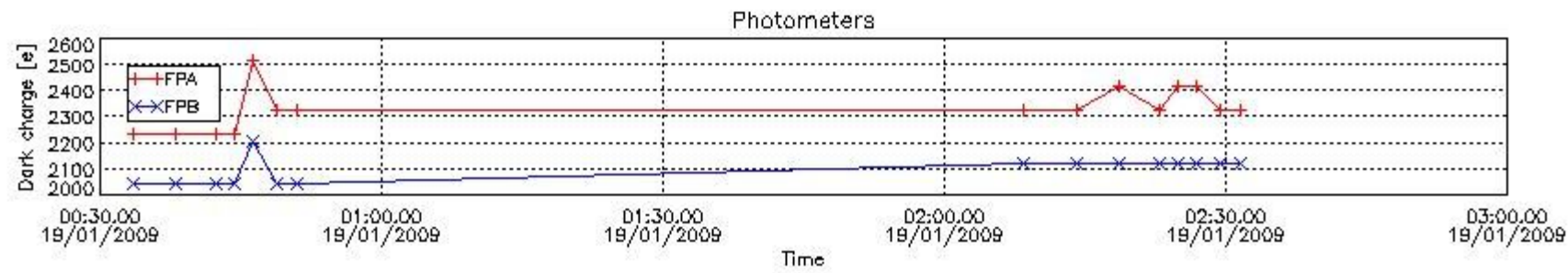
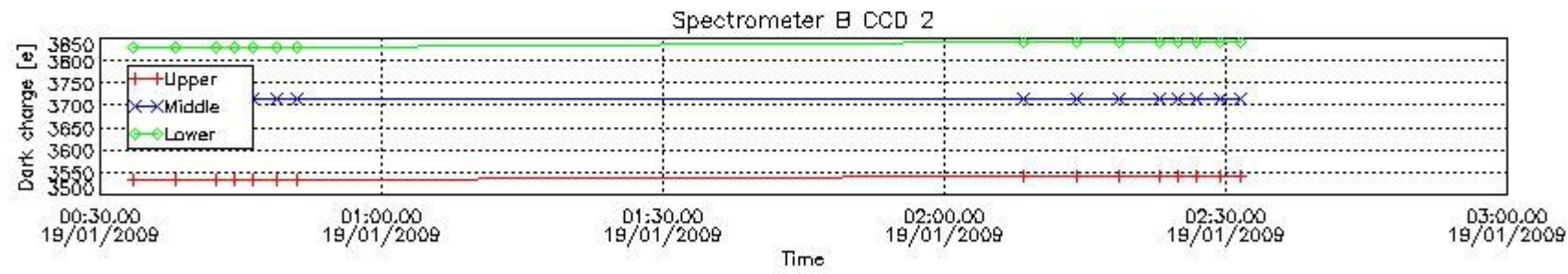
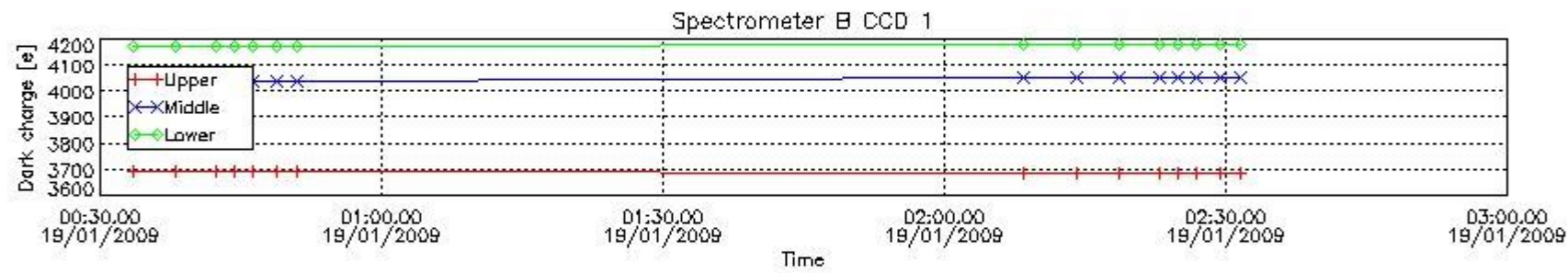
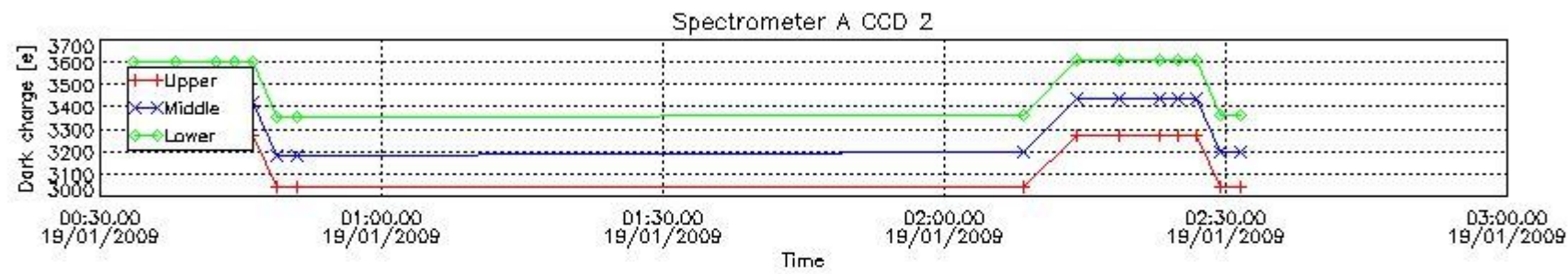
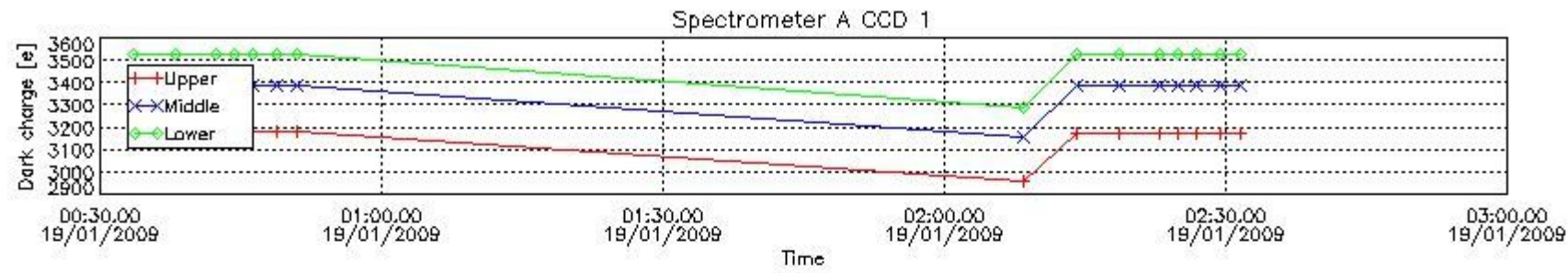
4. Overview of dark signal processing per product

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



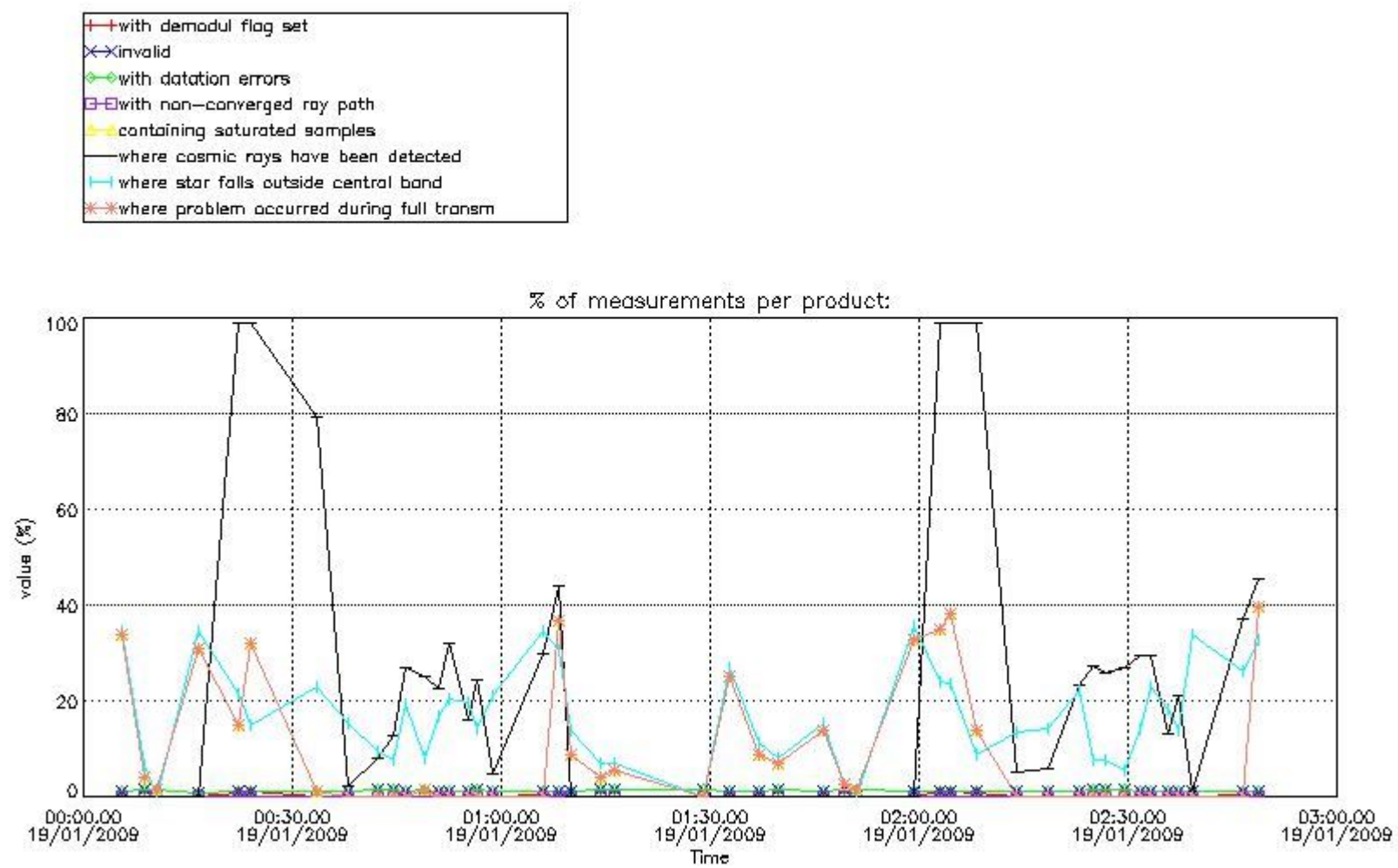
5. Demodulation flag and quality information monitoring

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.

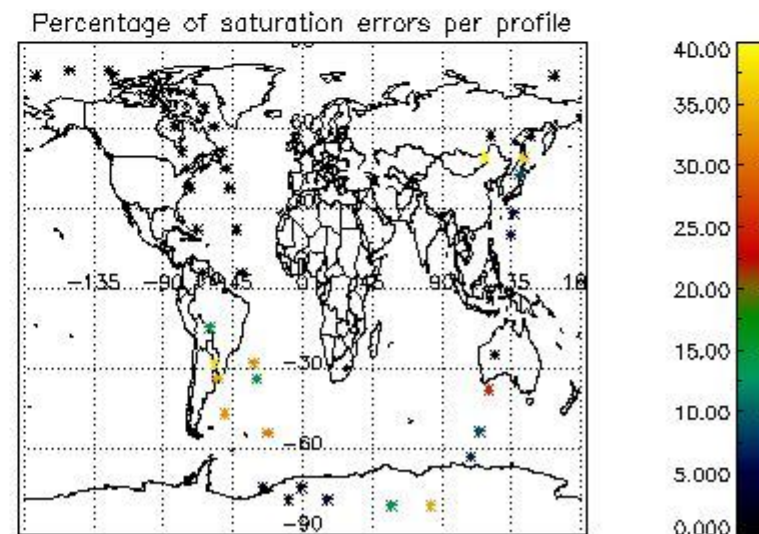
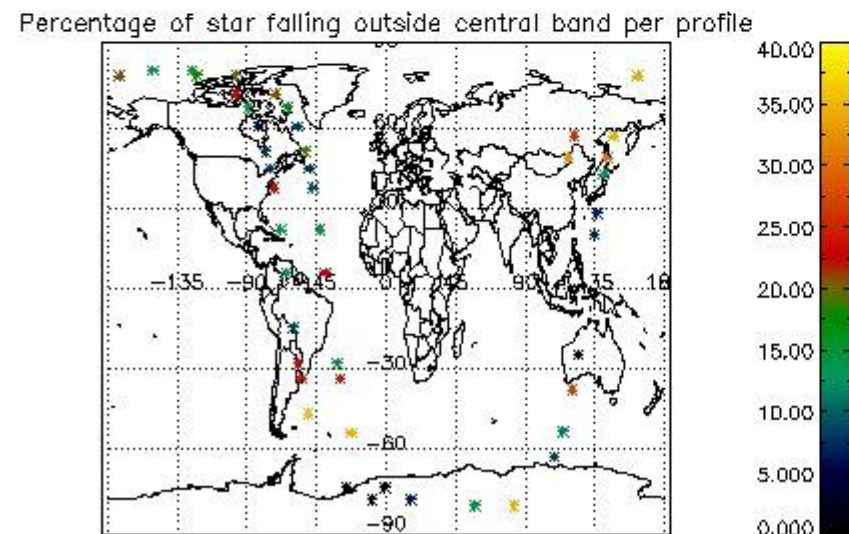
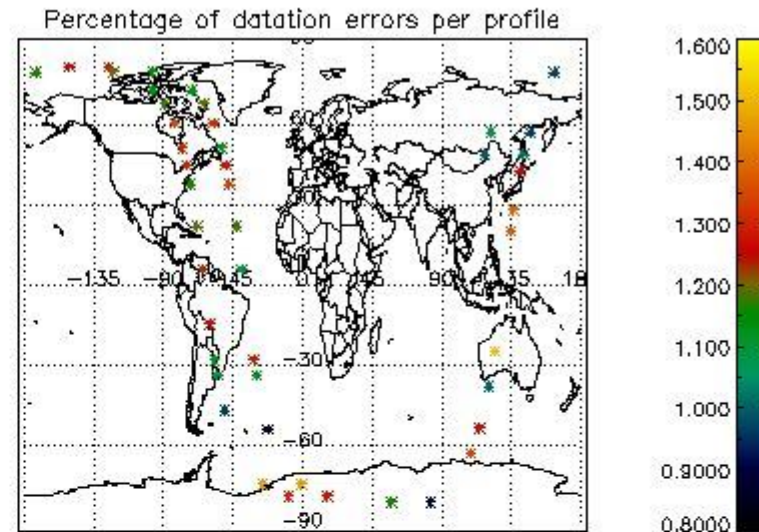
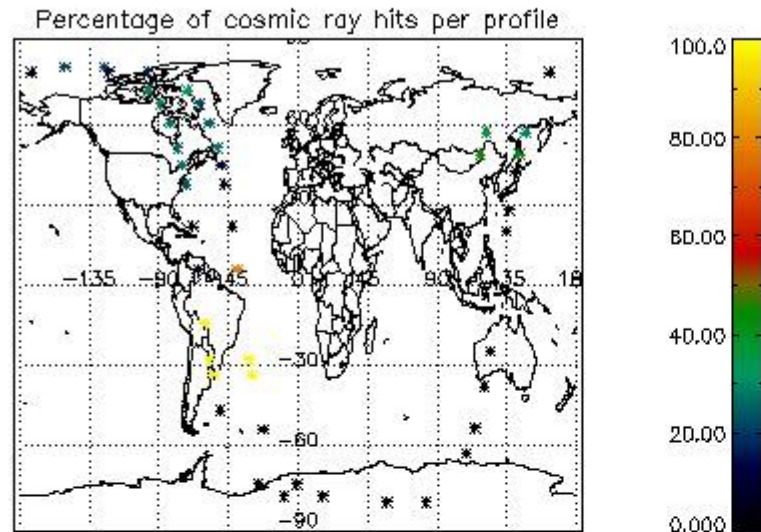
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.6087 %
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)



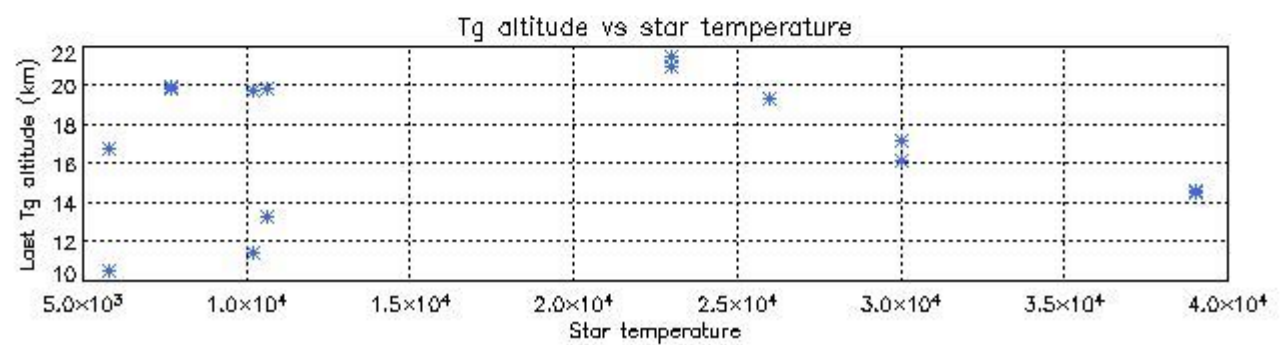
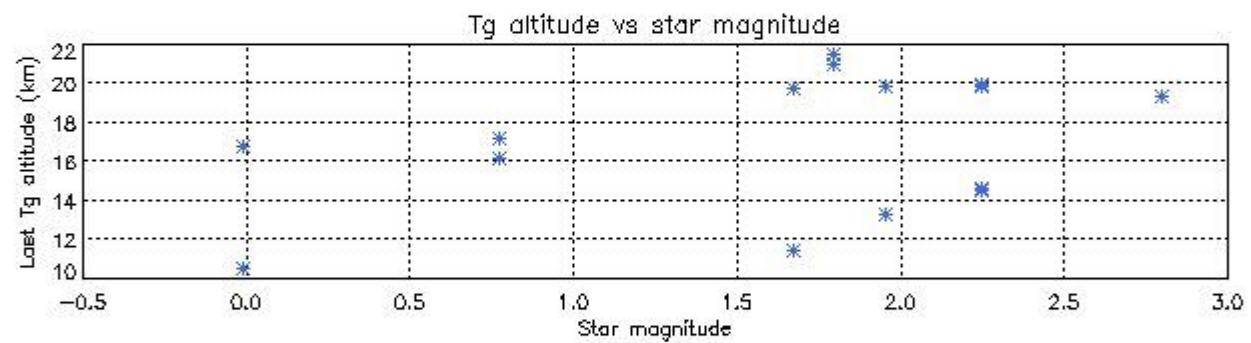
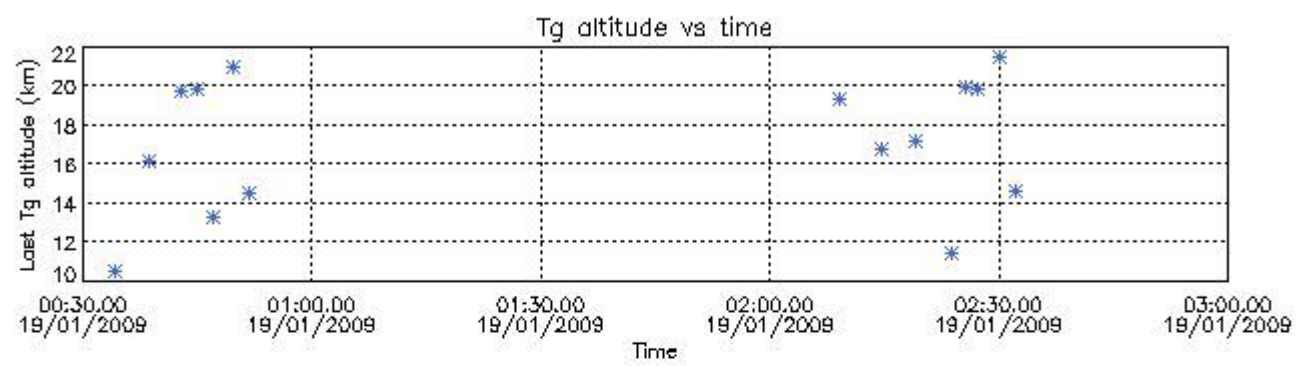
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.032	15.298	11.774
St. deviation:	3.5232	8.0544	2.3334
Maximum:	21.519	27.283	14.985
Minimum:	10.463	3.9024	10.039
Number of data:	15.000	17.000	4.0000

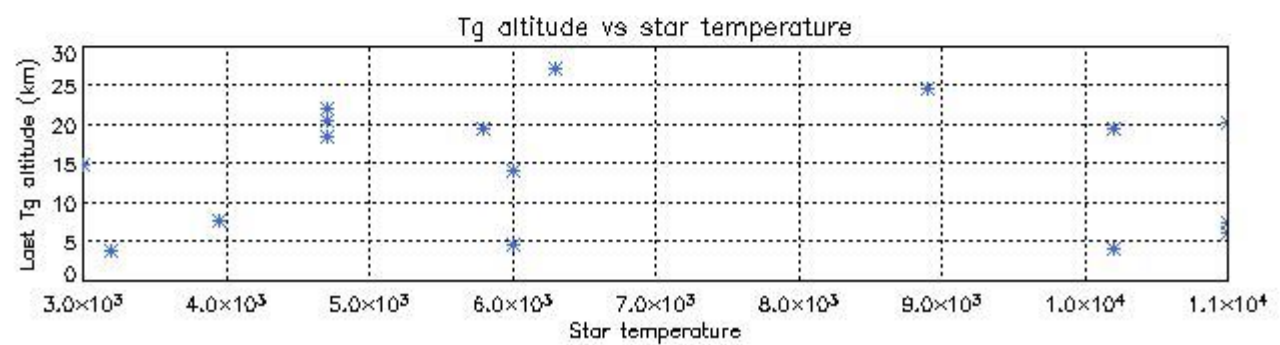
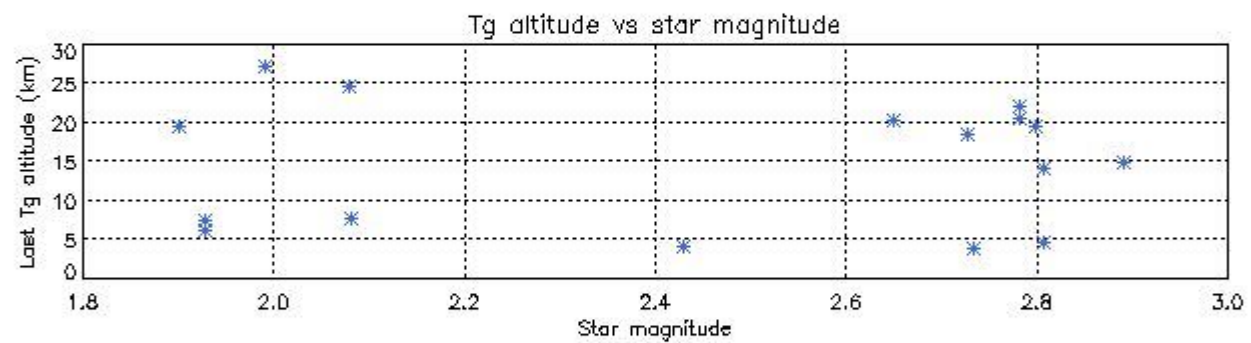
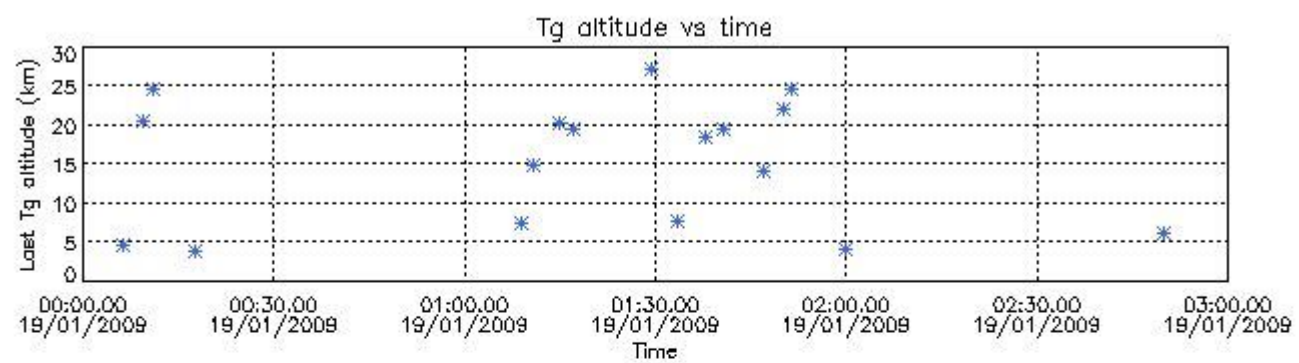
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



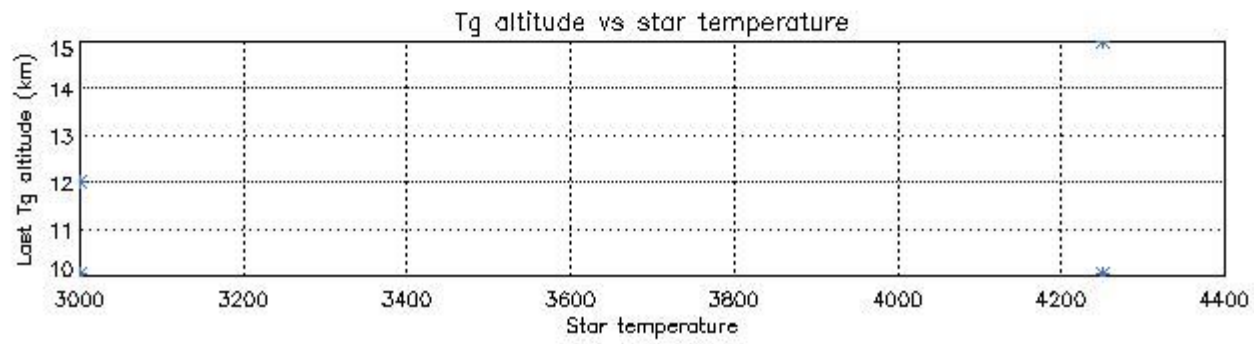
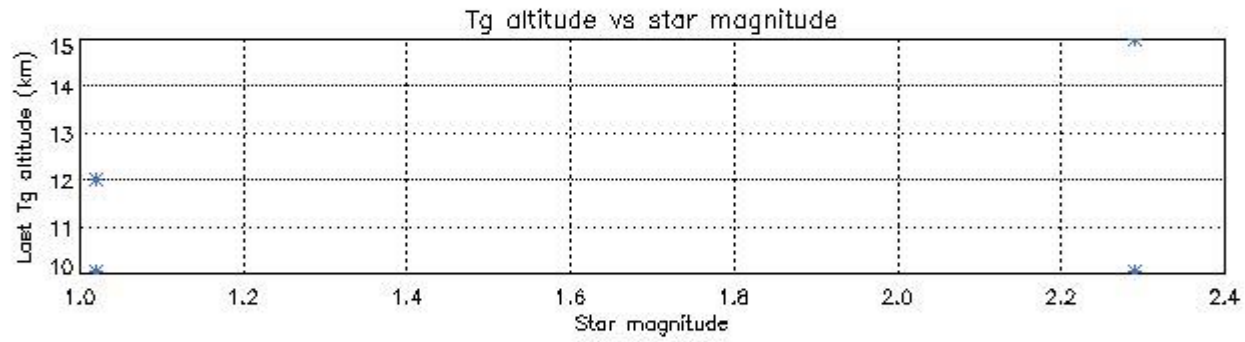
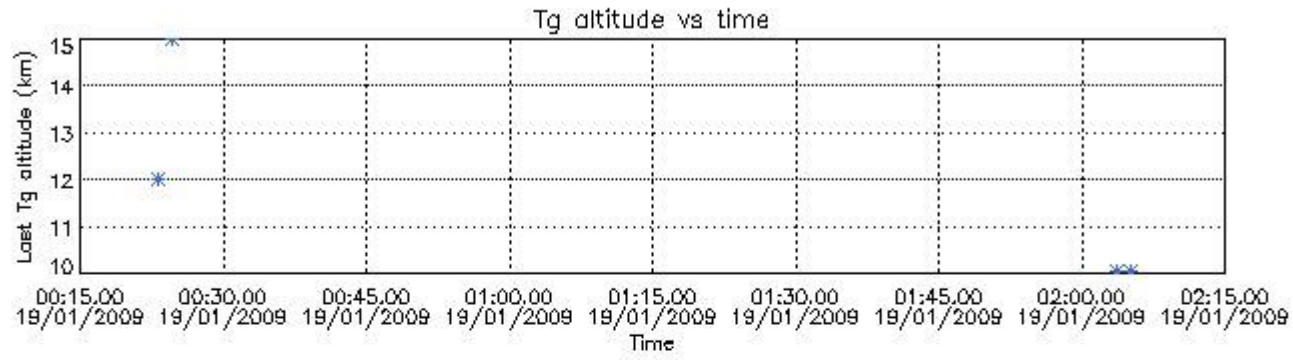
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

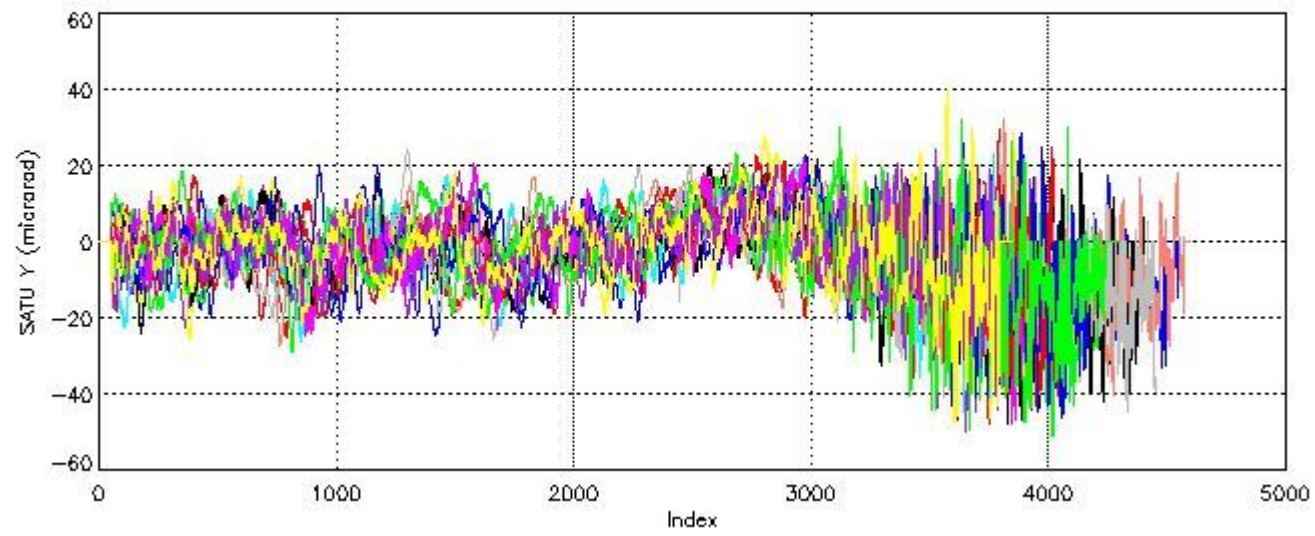
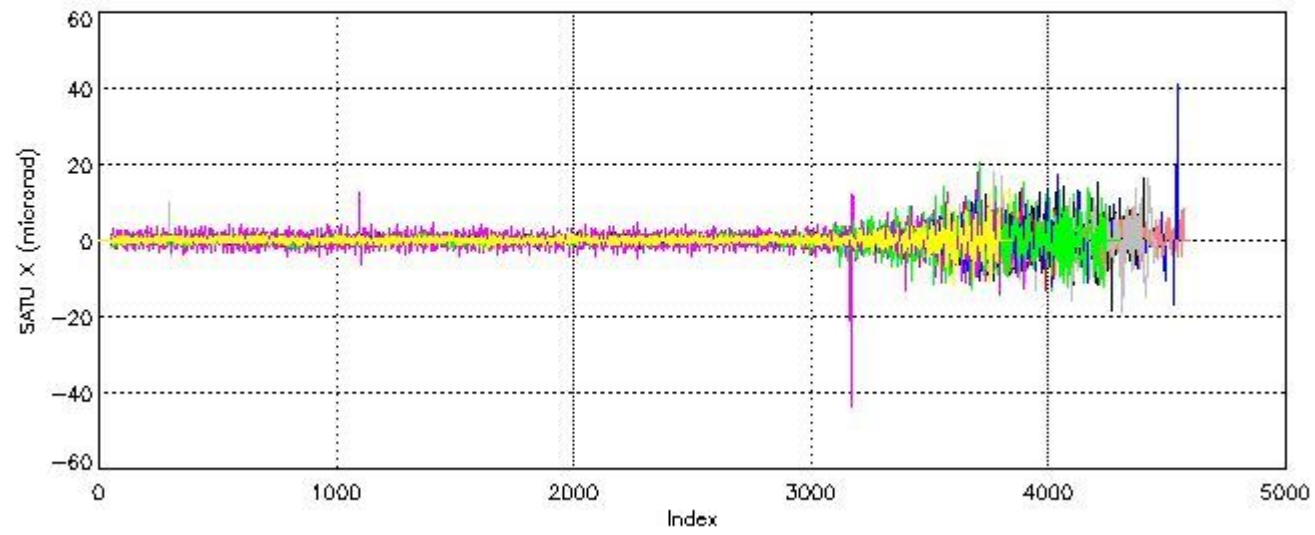


7. Star Acquisition and Tracking Unit (SATU)

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:	0.11150	-1.8621	0.044132	-2.1106
St. deviation:	0.60856	7.1254	0.74346	6.6786
Maximum:	4.4000	19.300	4.9000	20.400
Minimum:	-4.3000	-29.000	-5.8000	-27.300

Number of data:	13850.	13850.	14850.	14850.
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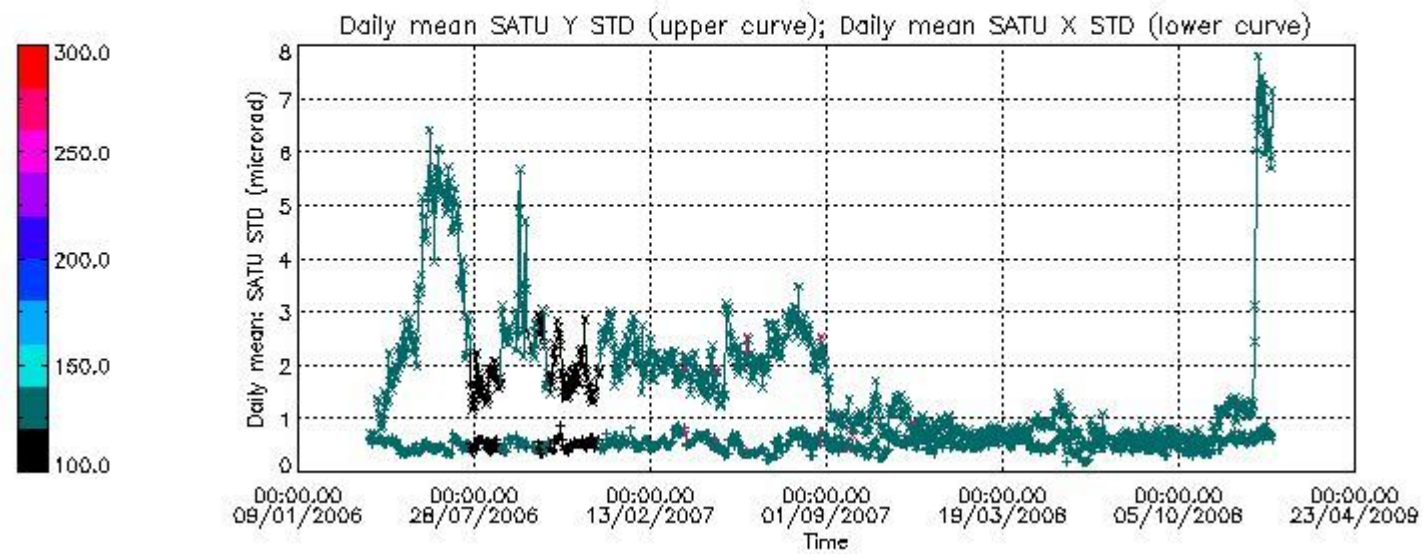
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

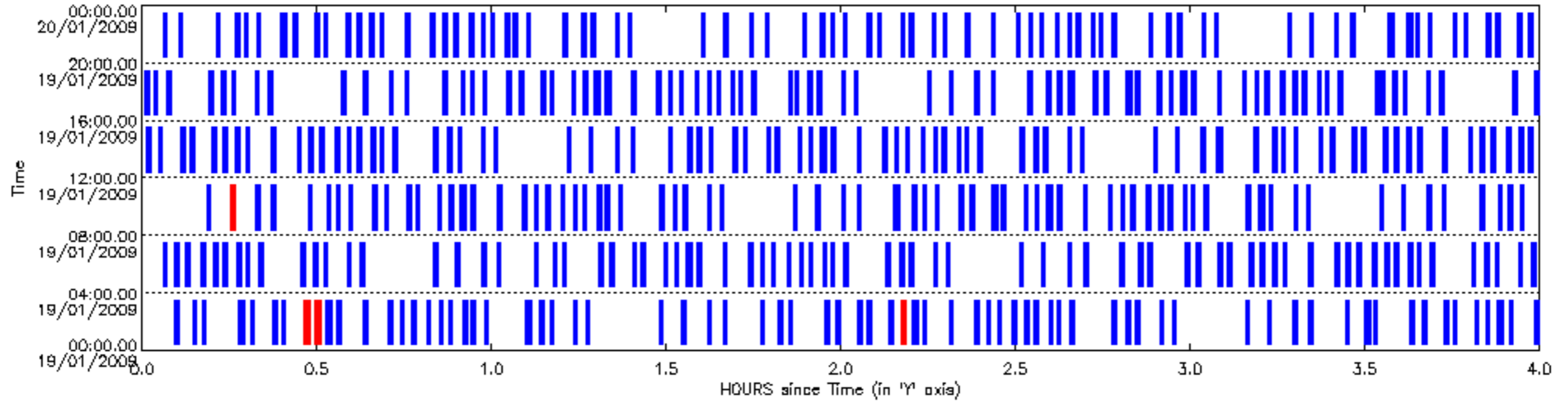
Lower curve: STD of SATU X axis

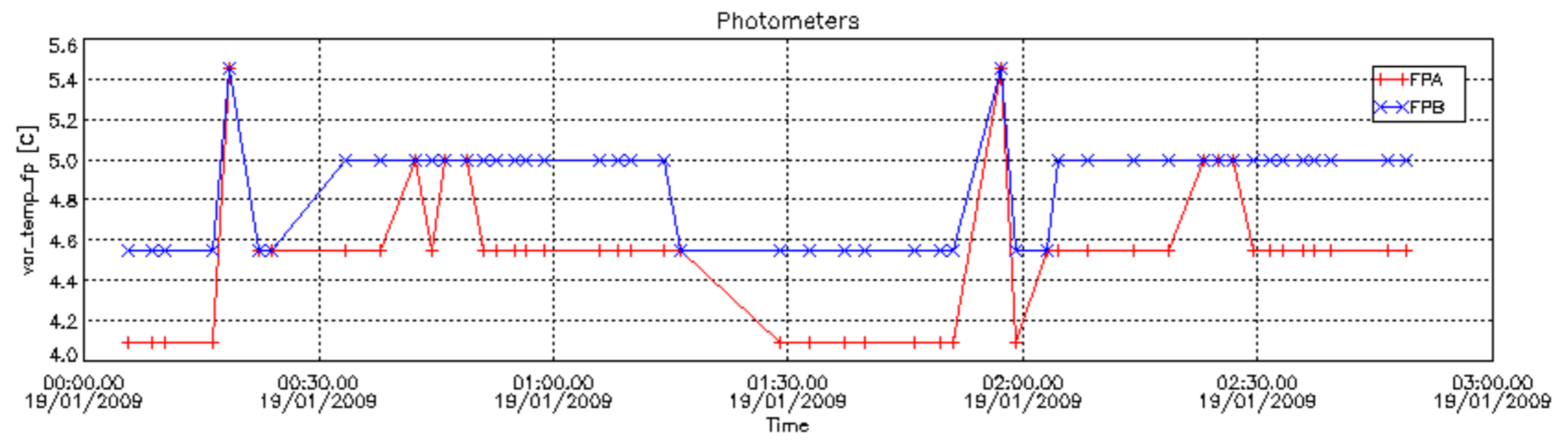
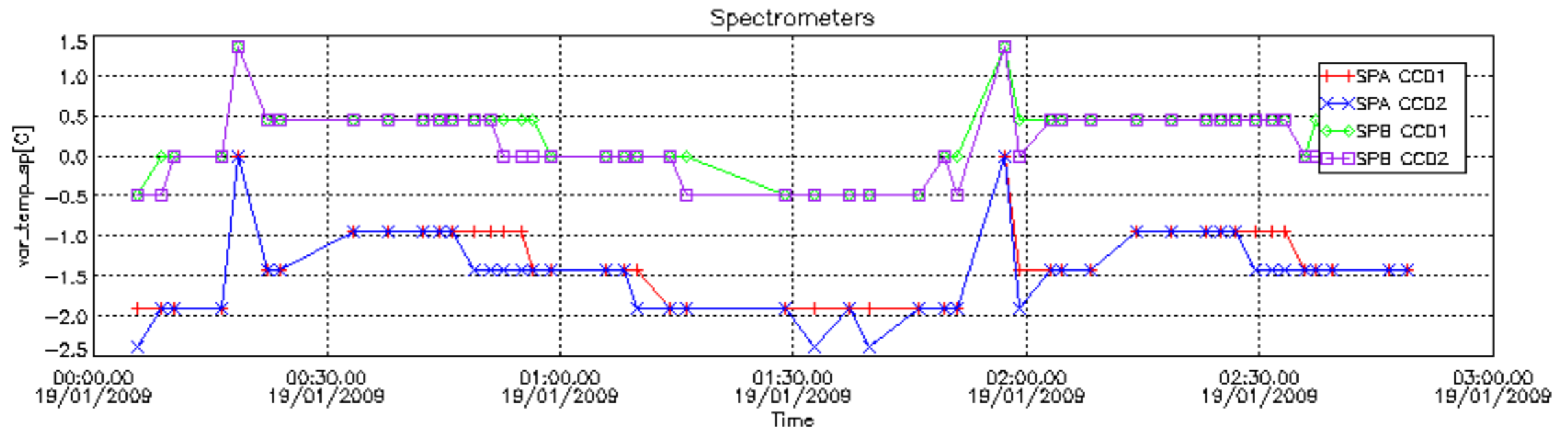


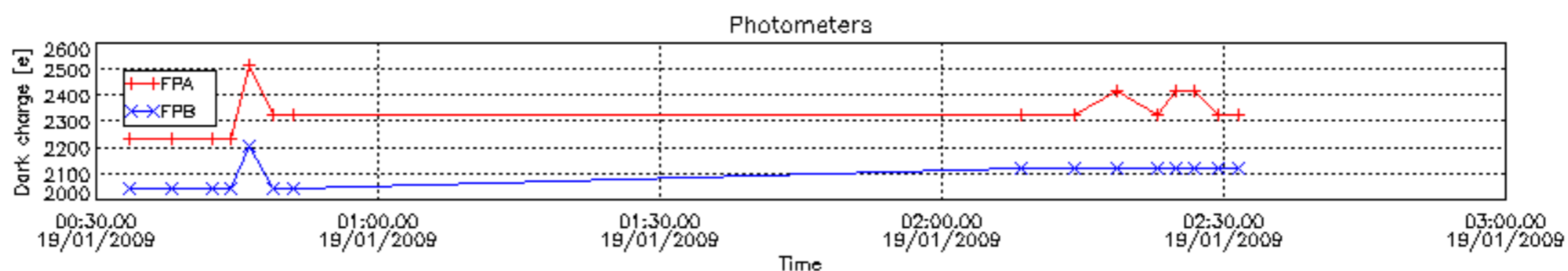
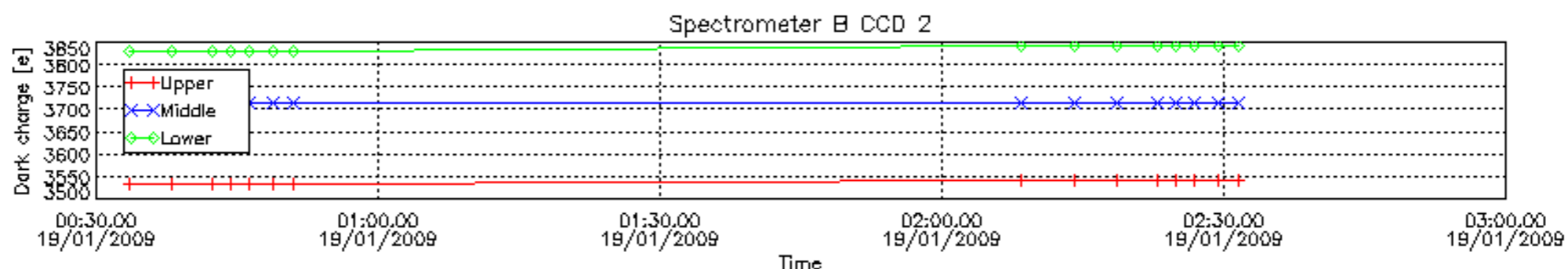
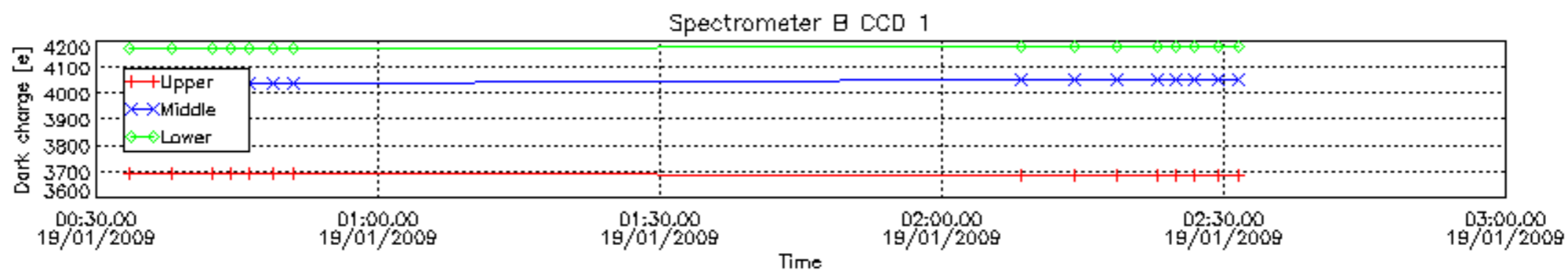
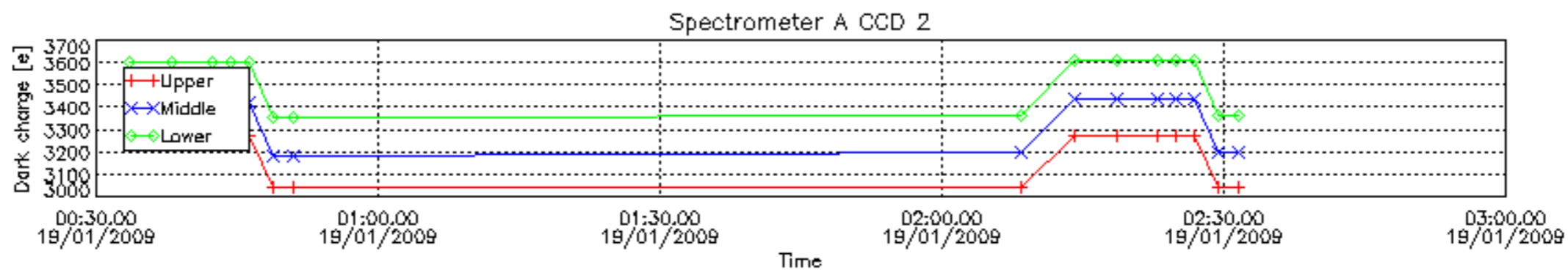
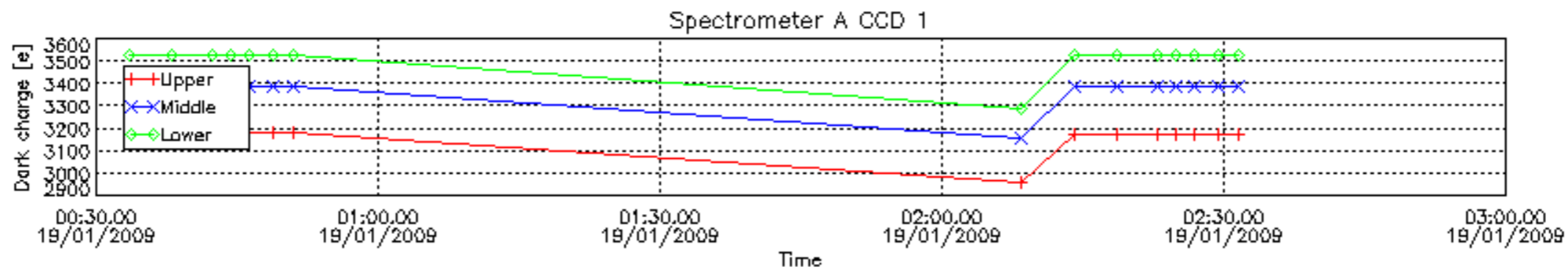
8. Auxiliary Data Files used for the production reported in section 2.4

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.

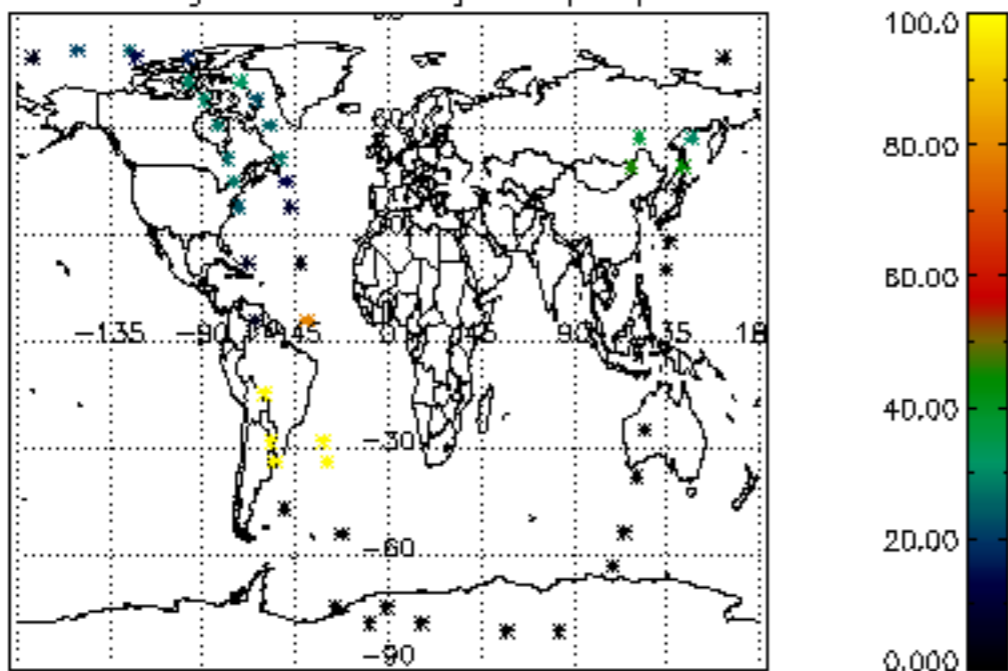
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-JAN-2009 00:05:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090113_094413_20090111_000000_20100101_000000	1	19-JAN-2009 00:05:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-JAN-2009 00:05:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-JAN-2009 00:05:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-JAN-2009 00:05:32
ECMWF_FILE	AUX_ECF_AXNECM20090118_064111_20090118_210000_20090119_090000	1	19-JAN-2009 00:05:32
OPTIONAL_ECMWF_FILE	MISSING	1	19-JAN-2009 00:05:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090118_205127_000060572075_00386_36011_7190.N1	1	19-JAN-2009 00:05:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090118_223743_000057382075_00387_36012_7191.N1	5	19-JAN-2009 00:18:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090119_001840_000054192075_00388_36013_7192.N1	31	19-JAN-2009 01:57:10



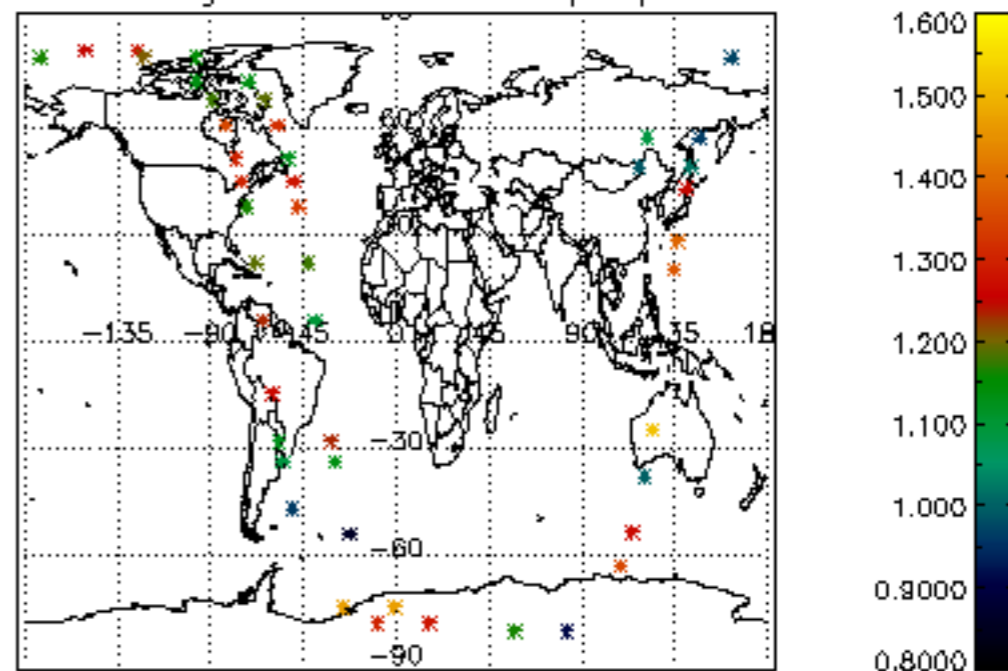




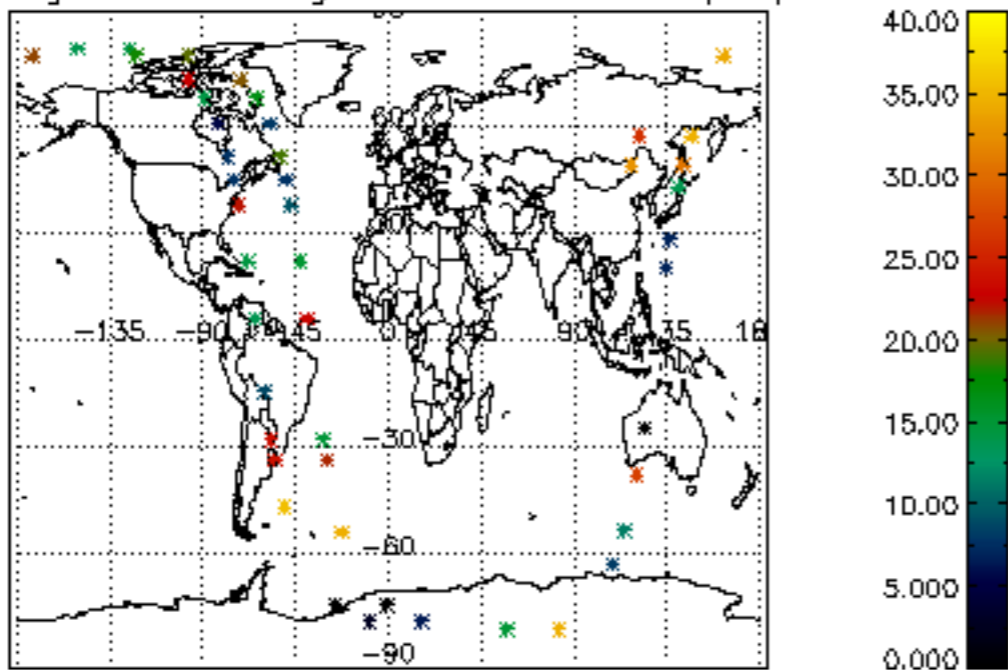
Percentage of cosmic ray hits per profile



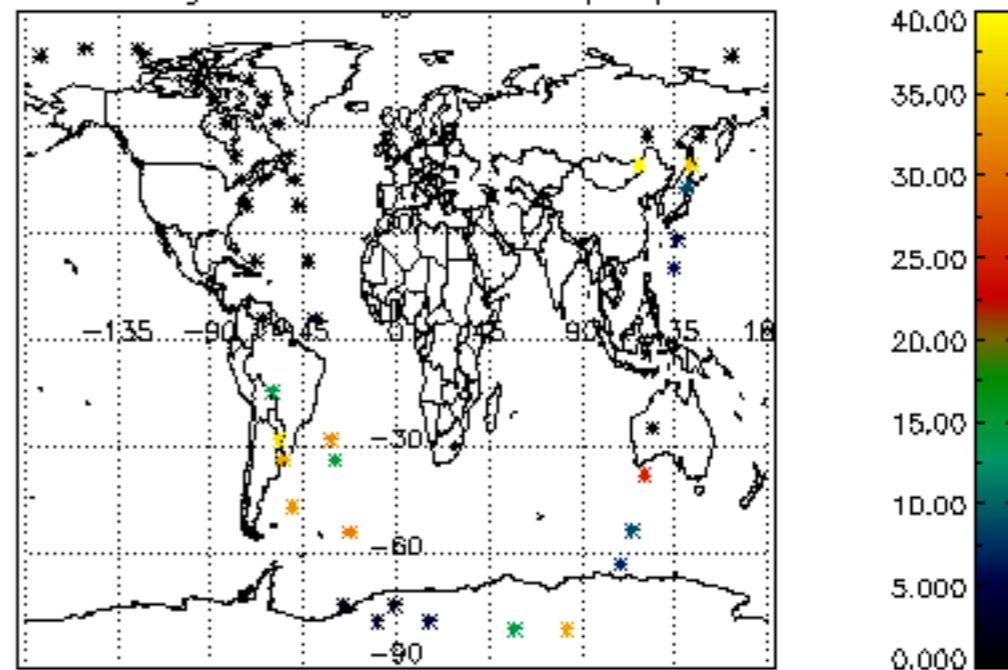
Percentage of datation errors per profile



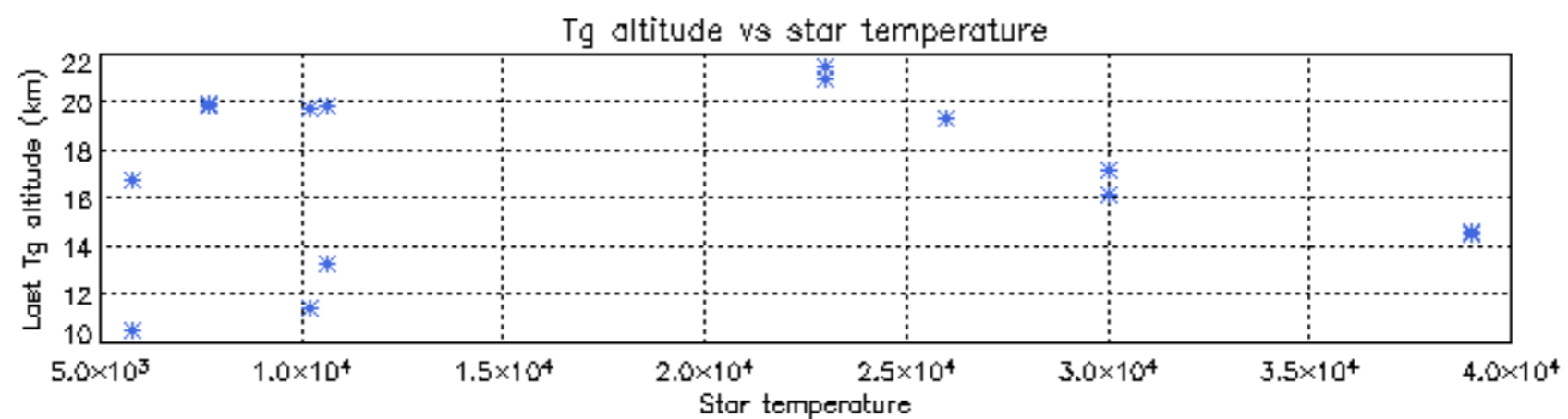
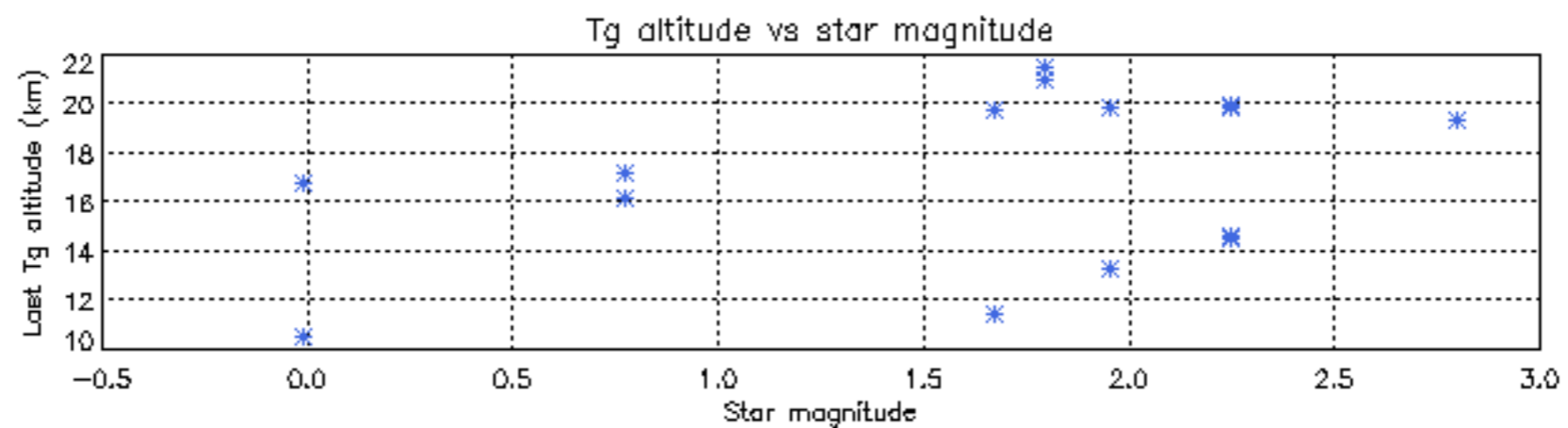
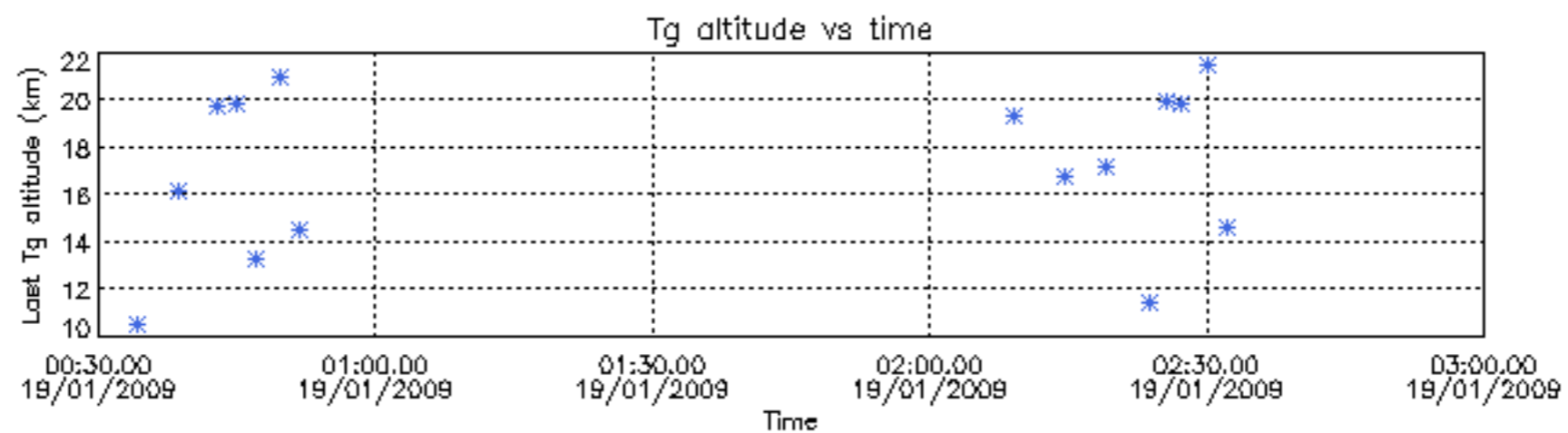
Percentage of star falling outside central band per profile



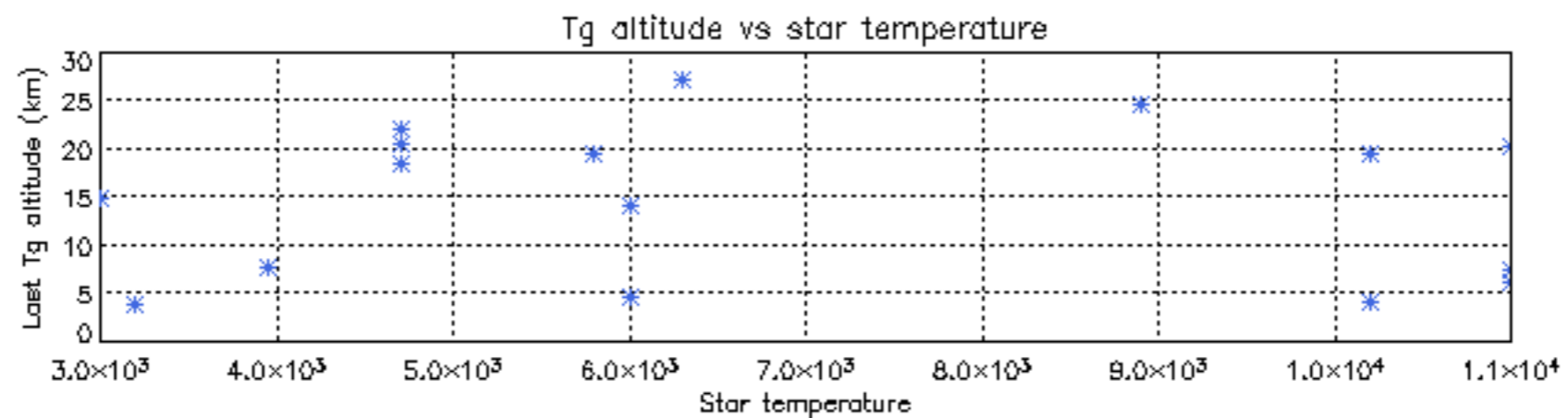
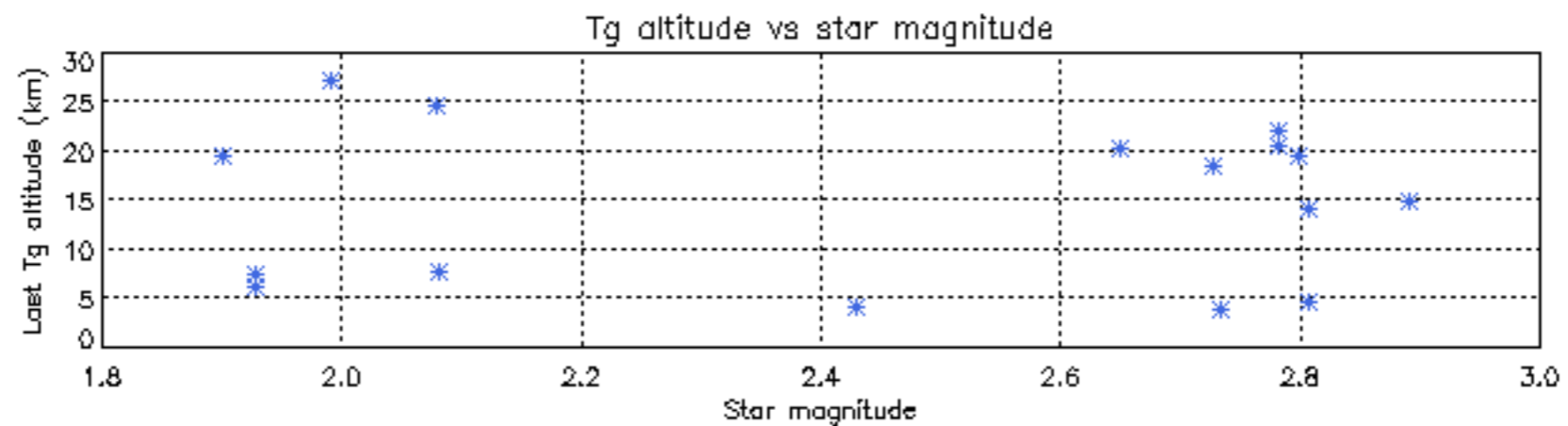
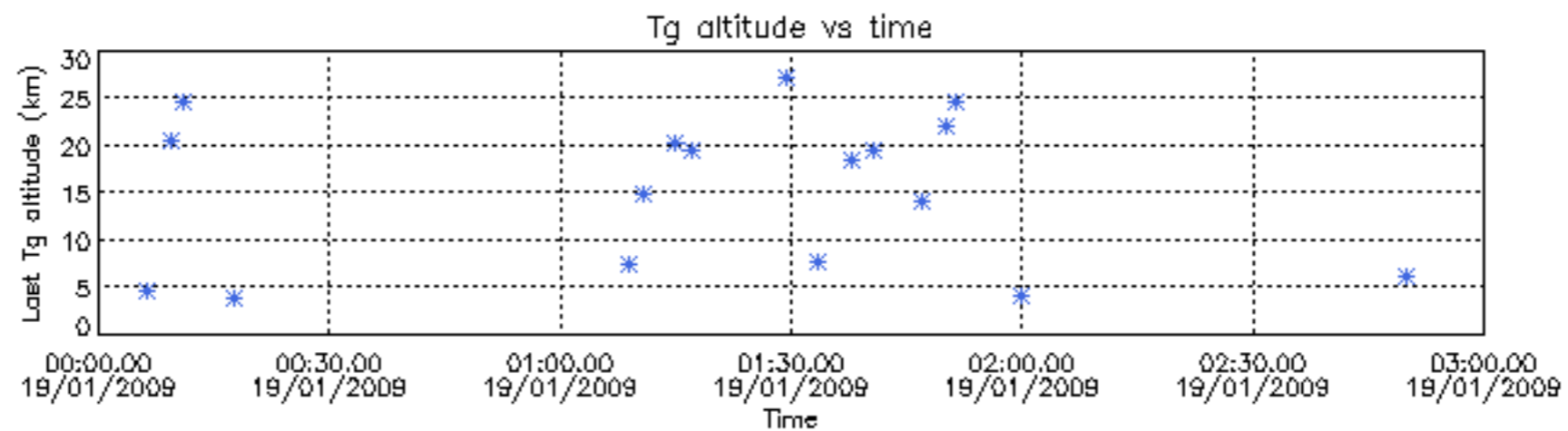
Percentage of saturation errors per profile



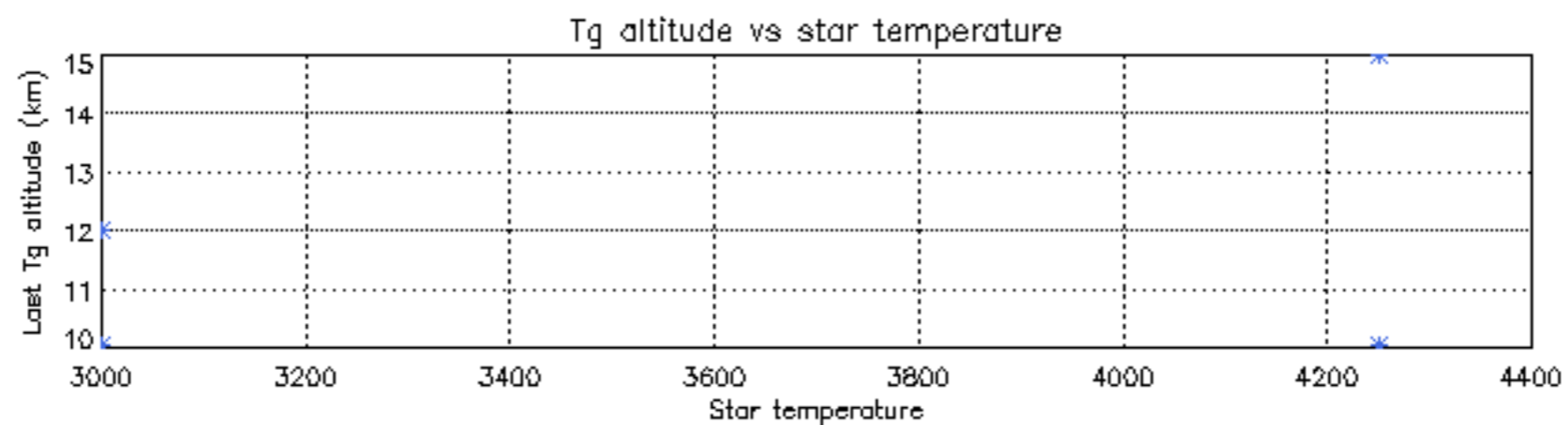
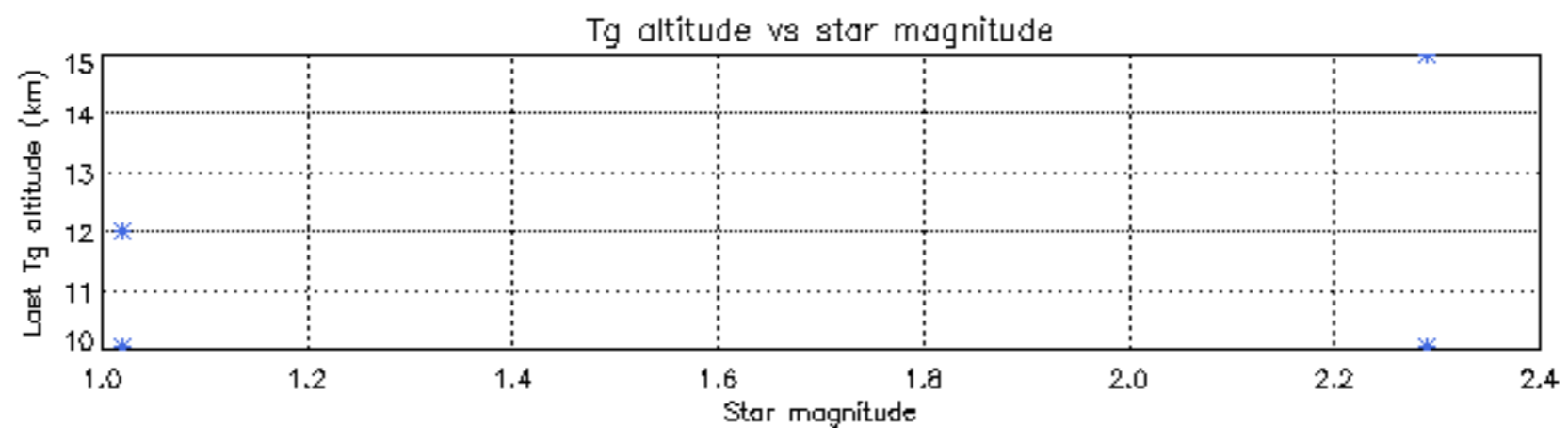
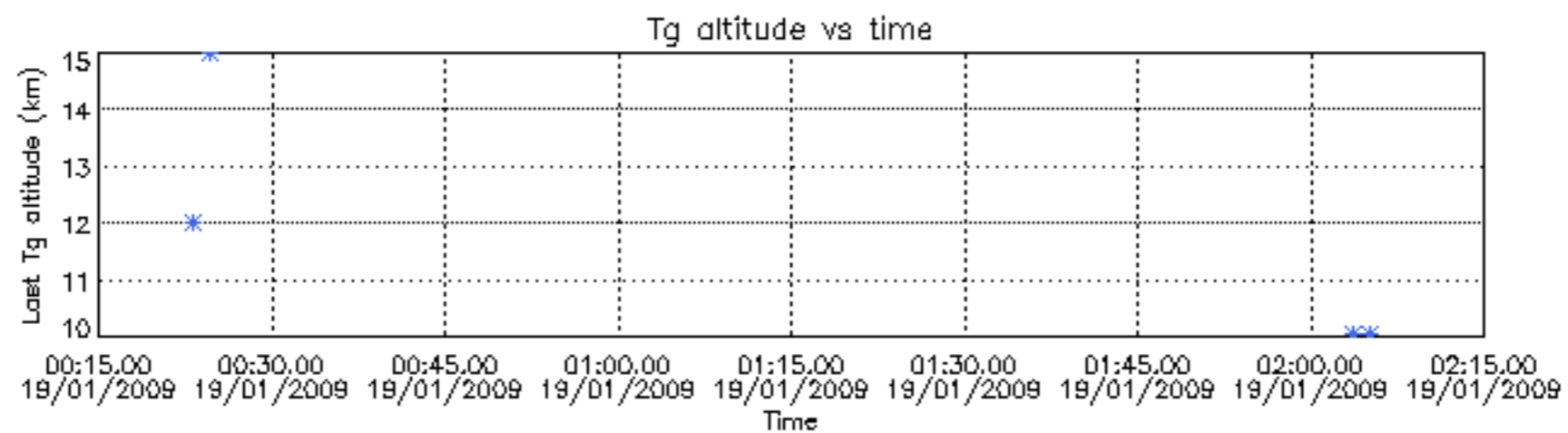
Tangent altitude at which the star is lost

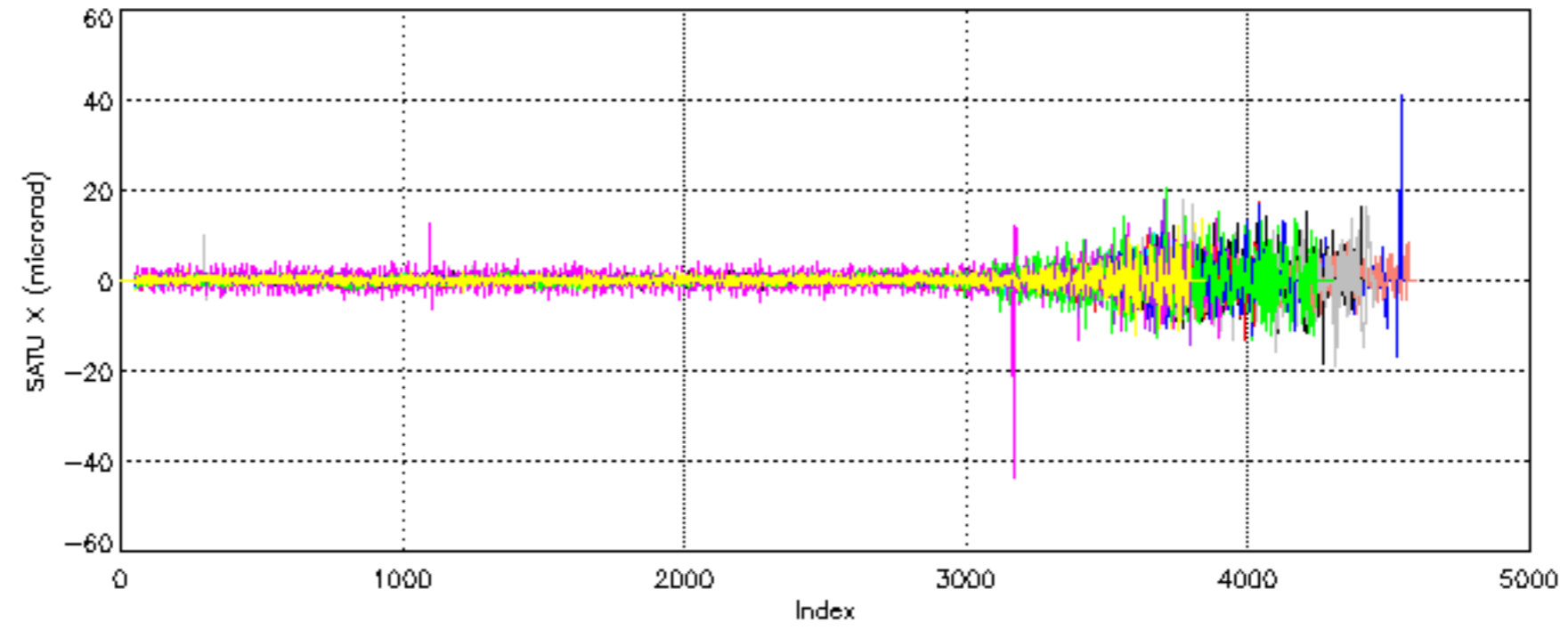


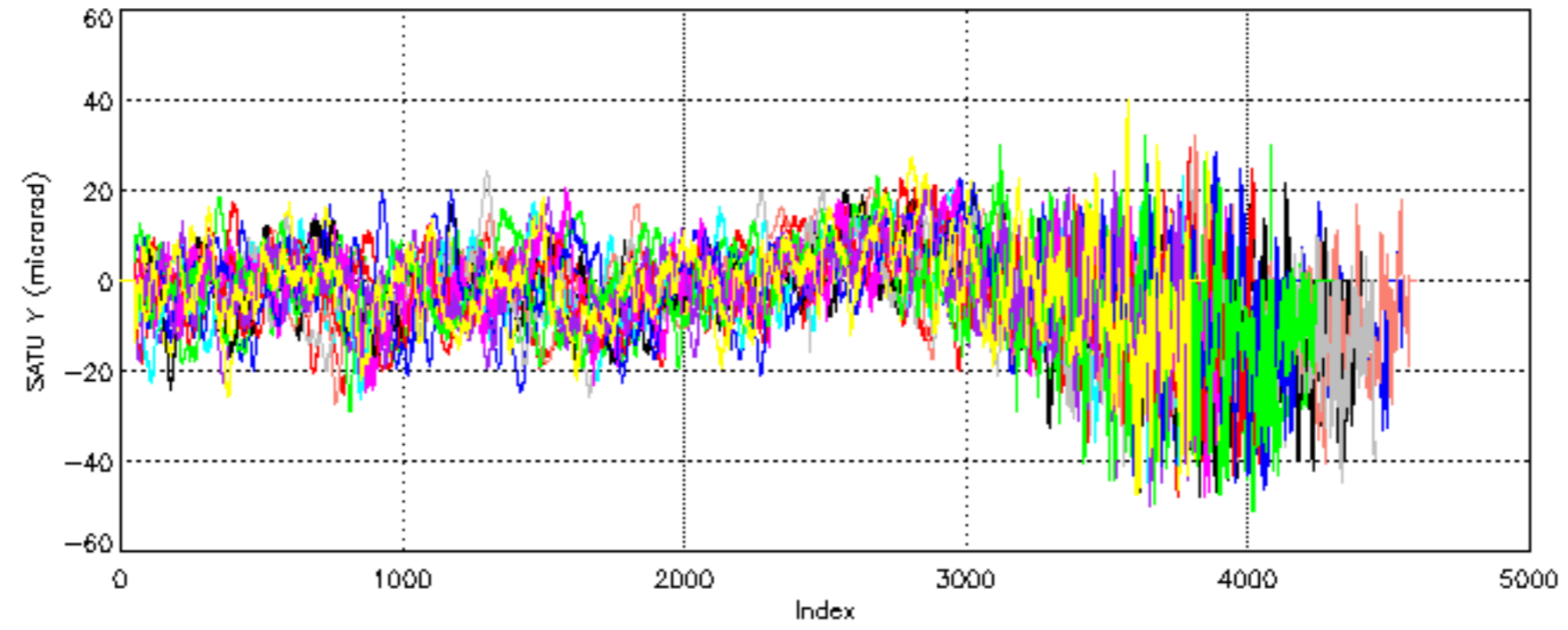
Tangent altitude at which the star is lost

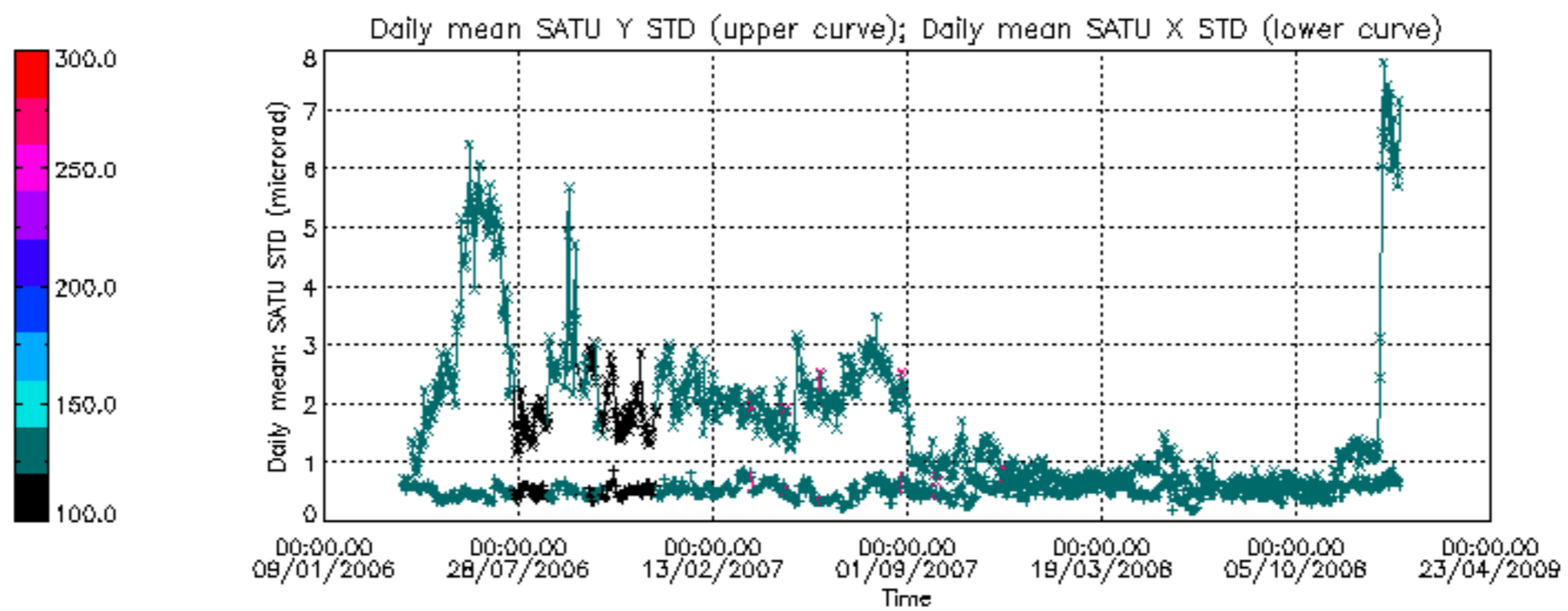


Tangent altitude at which the star is lost









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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
 11; 1434.6; 01-JAN-2009 02:01:49; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;35757
 12; 1582.1; 01-JAN-2009 02:04:16; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;35757
 13; 1770.1; 01-JAN-2009 02:07:24; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;35757
 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
 16; 2270.6; 01-JAN-2009 02:15:45; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;35757
 17; 2396.8; 01-JAN-2009 02:17:51; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35757
 18; 2472.2; 01-JAN-2009 02:19:07; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35757
 19; 2565.7; 01-JAN-2009 02:20:40; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35757
 20; 2692.3; 01-JAN-2009 02:22:47; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;35757
 21; 3423.1; 01-JAN-2009 02:34:57; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35757
 22; 3690.5; 01-JAN-2009 02:39:25; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35757

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 2; -1682.7; 01-JAN-2009 02:50:28; Bright; 32.0; 180; 27Gam Boo ; 3.04; 8000;occ; 64; 0;35757
 3; -1489.1; 01-JAN-2009 02:53:41; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;35757
 4; -1144.0; 01-JAN-2009 02:59:26; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;35757
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 7; -278.4; 01-JAN-2009 03:13:52; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;35757
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 9; 41.8; 01-JAN-2009 03:19:12; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;35758
 10; 214.8; 01-JAN-2009 03:22:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35758
 11; 433.3; 01-JAN-2009 03:25:44; Dark ; 26.5; 124; The Car ; 2.76; 30000;occ; 53; 0;35758
 12; 549.2; 01-JAN-2009 03:27:39; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;35758
 13; 633.5; 01-JAN-2009 03:29:04; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;35758
 14; 728.2; 01-JAN-2009 03:30:38; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;35758
 15; 980.4; 01-JAN-2009 03:34:51; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;35758
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 22; 2032.6; 01-JAN-2009 03:52:23; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0;35758
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 24; 2397.1; 01-JAN-2009 03:58:27; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35758
 25; 2472.7; 01-JAN-2009 03:59:43; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;35758
 26; 2566.0; 01-JAN-2009 04:01:16; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35758
 27; 2692.4; 01-JAN-2009 04:03:23; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;35758
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 7; -277.6; 01-JAN-2009 04:54:29; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;35758
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 12; 433.6; 01-JAN-2009 05:06:20; Dark ; 26.0; 124; The Car ; 2.76; 30000;occ; 52; 0;35759
 13; 549.6; 01-JAN-2009 05:08:16; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35759
 14; 634.0; 01-JAN-2009 05:09:40; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35759
 15; 728.8; 01-JAN-2009 05:11:15; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;35759

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16; 980.8; 01-JAN-2009 05:15:27; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;35759
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18; 1342.9; 01-JAN-2009 05:21:29; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;35759
19; 1434.7; 01-JAN-2009 05:23:01; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;35759
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22; 1881.5; 01-JAN-2009 05:30:28; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;35759
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24; 2270.7; 01-JAN-2009 05:36:57; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;35759
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27; 2566.1; 01-JAN-2009 05:41:52; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35759
28; 2692.6; 01-JAN-2009 05:43:59; Bright; 37.0; 6; 13Alp Aur ; 0.08; 3400;occ; 74; 0;35759
29; 3423.6; 01-JAN-2009 05:56:10; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;35759
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2; 1056.1; 01-JAN-2009 20:22:06; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;35768
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4; 1345.2; 01-JAN-2009 20:26:55; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;35768
5; 1436.9; 01-JAN-2009 20:28:27; Dark ; 45.0; 179; 240mi2CMA ; 3.03; 24000;occ; 90; 0;35768
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8; 1883.2; 01-JAN-2009 20:35:53; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;35768
9; 2032.9; 01-JAN-2009 20:38:23; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;35768
10; 2224.1; 01-JAN-2009 20:41:34; Dark ; 26.0; 44; 24Gam Gem ; 1.93; 11000;occ; 52; 0;35768
11; 2322.6; 01-JAN-2009 20:43:12; Bright; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;35768
12; 2472.8; 01-JAN-2009 20:45:42; Bright; 52.0; 114; 3Iot Aur ; 2.69; 4600;occ; 104; 0;35768
13; 2563.5; 01-JAN-2009 20:47:13; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35768
14; 2691.1; 01-JAN-2009 20:49:21; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;35768
15; 3423.2; 01-JAN-2009 21:01:33; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;35768
16; 3689.1; 01-JAN-2009 21:05:59; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;35768
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21; 5694.3; 04-JAN-2009 08:20:21; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;35803
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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
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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
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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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 13; 4430.3; 04-JAN-2009 09:39:53; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;35804
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 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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 25; 6294.6; 04-JAN-2009 10:10:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35804
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 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
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 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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 6; 2395.0; 04-JAN-2009 10:46:34; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35805
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 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
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 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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27; 6296.4; 04-JAN-2009 13:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35806
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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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 23; 2395.6; 08-JAN-2009 23:45:30; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35870
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 33; 5063.6; 09-JAN-2009 00:29:58; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;35870
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 4; 1891.1; 08-JAN-2009 13:33:29; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35864
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23;	2199.1;	09-JAN-2009	03:03:25;	Dark	;	46.0;	44;	24Gam Gem	;	1.93;	11000;occ;	92;	0;	35872
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16;	3923.7;	11-JAN-2009	17:34:19;	Bright;	;	40.5;	119;	14Eta Dra	;	2.73;	4700;occ;	81;	0;	35909
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 11; -195.3; 24-JAN-2009 07:54:01; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;36089
 12; -74.2; 24-JAN-2009 07:56:02; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36089
 13; 35.1; 24-JAN-2009 07:57:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090
 14; 138.8; 24-JAN-2009 07:59:35; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;36090
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 16; 412.2; 24-JAN-2009 08:04:09; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;36090
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 26; 1628.4; 24-JAN-2009 08:24:25; Dark ; 27.5; 1; 9Alp CMA ; -1.44; 11000;occ; 55; 0;36090

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 15; 4895.9; 24-JAN-2009 09:18:52; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;36090
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 18; 5593.1; 24-JAN-2009 09:30:30; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36090
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 22; 6175.2; 24-JAN-2009 09:40:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36090
 23; 6265.3; 24-JAN-2009 09:41:42; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36090
 24; 6448.8; 24-JAN-2009 09:44:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;36090
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 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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 32; 7451.6; 24-JAN-2009 10:01:28; Dark ; 39.5; 23; 21Eps CMa ; 1.50; 26000;occ; 79; 0;36090
 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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 6; 2548.2; 24-JAN-2009 10:20:21; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36091
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 9; 3637.7; 24-JAN-2009 10:38:30; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36091
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 16; 5236.7; 24-JAN-2009 11:05:09; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36091
 17; 5507.4; 24-JAN-2009 11:09:40; Dark ; 47.0; 16; 21Alp Sco ; 1.02; 3000;occ; 94; 0;36091
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 19; 5841.9; 24-JAN-2009 11:15:14; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;36091
 20; 5963.5; 24-JAN-2009 11:17:16; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36091
 21; 6072.2; 24-JAN-2009 11:19:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36091
 22; 6176.0; 24-JAN-2009 11:20:48; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36091
 23; 6265.8; 24-JAN-2009 11:22:18; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;36091
 24; 6449.3; 24-JAN-2009 11:25:22; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;36091
 25; 6542.4; 24-JAN-2009 11:26:55; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36091
 26; 6691.5; 24-JAN-2009 11:29:24; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;36091
 27; 6822.7; 24-JAN-2009 11:31:35; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;36091
 28; 6931.3; 24-JAN-2009 11:33:24; Dark ; 37.0; 46; Del Vel ; 1.95; 10600;occ; 74; 0;36091
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 30; 7214.4; 24-JAN-2009 11:38:07; Dark ; 37.0; 70; Zet Pup ; 2.25; 39000;occ; 74; 0;36091
 31; 7303.0; 24-JAN-2009 11:39:35; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36091
 32; 7451.5; 24-JAN-2009 11:42:04; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;36091
 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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 9; 3426.4; 24-JAN-2009 12:15:35; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36092
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 13; 4472.3; 24-JAN-2009 12:33:01; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;36092
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 19; 5594.1; 24-JAN-2009 12:51:42; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36092
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 21; 5964.4; 24-JAN-2009 12:57:53; Dark ; 42.5; 109; Bet Lup ; 2.68; 26000;occ; 85; 0;36092
 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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 25; 6450.1; 24-JAN-2009 13:05:58; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;36092
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 27; 6691.7; 24-JAN-2009 13:10:00; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 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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 22; 5965.3; 24-JAN-2009 14:38:29; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;36093
 23; 6073.6; 24-JAN-2009 14:40:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36093
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 33; 7303.8; 24-JAN-2009 15:00:48; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;36093

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2; 2198.4; 31-JAN-2009 09:54:24; Bright; 31.5; 44; 24Gam Gem ; 1.93; 11000;occ; 63; 0;36191
3; 2340.6; 31-JAN-2009 09:56:46; Bright; 32.0; 170; 27Eps Gem ; 3.00; 9700;occ; 64; 0;36191
4; 2456.5; 31-JAN-2009 09:58:42; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;36191
5; 3427.5; 31-JAN-2009 10:14:53; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36191
6; 3614.9; 31-JAN-2009 10:18:00; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36191
7; 3897.4; 31-JAN-2009 10:22:43; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36191
8; 4086.8; 31-JAN-2009 10:25:52; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;36191
9; 4304.4; 31-JAN-2009 10:29:30; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36191
10; 4795.8; 31-JAN-2009 10:37:41; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;36191
11; 4923.9; 31-JAN-2009 10:39:49; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;36191
12; 5311.4; 31-JAN-2009 10:46:17; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36191
13; 5569.0; 31-JAN-2009 10:50:34; Dark ; 35.0; 16; 21Alp Sco ; 1.02; 3000;occ; 70; 0;36191
14; 5704.4; 31-JAN-2009 10:52:50; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36191
15; 5916.3; 31-JAN-2009 10:56:22; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;36191
16; 6049.2; 31-JAN-2009 10:58:35; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;36191
17; 6139.6; 31-JAN-2009 11:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36191
18; 6227.9; 31-JAN-2009 11:01:33; Dark ; 34.5; 4; Alp1Cen ; -0.01; 5800;occ; 69; 0;36191
19; 6343.5; 31-JAN-2009 11:03:29; Dark ; 37.5; 77; Eps Cen ; 2.30; 28000;occ; 75; 0;36191
20; 6504.0; 31-JAN-2009 11:06:09; Dark ; 34.0; 12; Alp1Cru ; 0.77; 30000;occ; 68; 0;36191
21; 6623.8; 31-JAN-2009 11:08:09; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;36191
22; 6742.9; 31-JAN-2009 11:10:08; Dark ; 31.5; 159; Ups Car ; 2.92; 7200;occ; 63; 0;36191
23; 6858.1; 31-JAN-2009 11:12:03; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36191
24; 6963.6; 31-JAN-2009 11:13:49; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36191
25; 7114.9; 31-JAN-2009 11:16:20; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36191
26; 7239.7; 31-JAN-2009 11:18:25; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36191
27; 7447.2; 31-JAN-2009 11:21:52; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36191

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1; 1992.8; 31-JAN-2009 11:31:34; Dark ; 32.5; 8; 10Alp CMI ; 0.40; 6500;occ; 65; 0;36192
2; 2198.9; 31-JAN-2009 11:35:00; Bright; 31.0; 44; 24Gam Gem ; 1.93; 11000;occ; 62; 0;36192
3; 2341.0; 31-JAN-2009 11:37:22; Bright; 31.0; 170; 27Eps Gem ; 3.00; 9700;occ; 62; 0;36192
4; 2456.5; 31-JAN-2009 11:39:18; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;36192
5; 3427.6; 31-JAN-2009 11:55:29; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36192
6; 3614.5; 31-JAN-2009 11:58:36; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36192
7; 3897.3; 31-JAN-2009 12:03:18; Bright; 30.0; 119; 14Eta Dra ; 2.73; 4700;occ; 60; 0;36192
8; 4087.1; 31-JAN-2009 12:06:28; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;36192
9; 4304.7; 31-JAN-2009 12:10:06; Bright; 25.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 50; 0;36192
10; 4796.6; 31-JAN-2009 12:18:18; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;36192
11; 4924.8; 31-JAN-2009 12:20:26; Bright; 27.0; 126; 60Bet Oph ; 2.77; 4250;occ; 54; 0;36192
12; 5311.8; 31-JAN-2009 12:26:53; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36192
13; 5569.7; 31-JAN-2009 12:31:11; Dark ; 34.5; 16; 21Alp Sco ; 1.02; 3000;occ; 69; 0;36192
14; 5704.5; 31-JAN-2009 12:33:26; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36192

15;	5917.0;	31-JAN-2009	12:36:58;	Dark	;	36.5;	131;	Gam Lup	;	2.80;	26000;occ;	73;	0;	36192
16;	6050.0;	31-JAN-2009	12:39:11;	Dark	;	39.0;	109;	Bet Lup	;	2.68;	26000;occ;	78;	0;	36192
17;	6140.3;	31-JAN-2009	12:40:41;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36192
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