

GOMOS Daily Report 05-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	08JAN2009 05:44:35
Data source version	GOMOS/5.00
Start time of products	05JAN2009 00:01:04
Stop time of products	05JAN2009 02:36:08
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

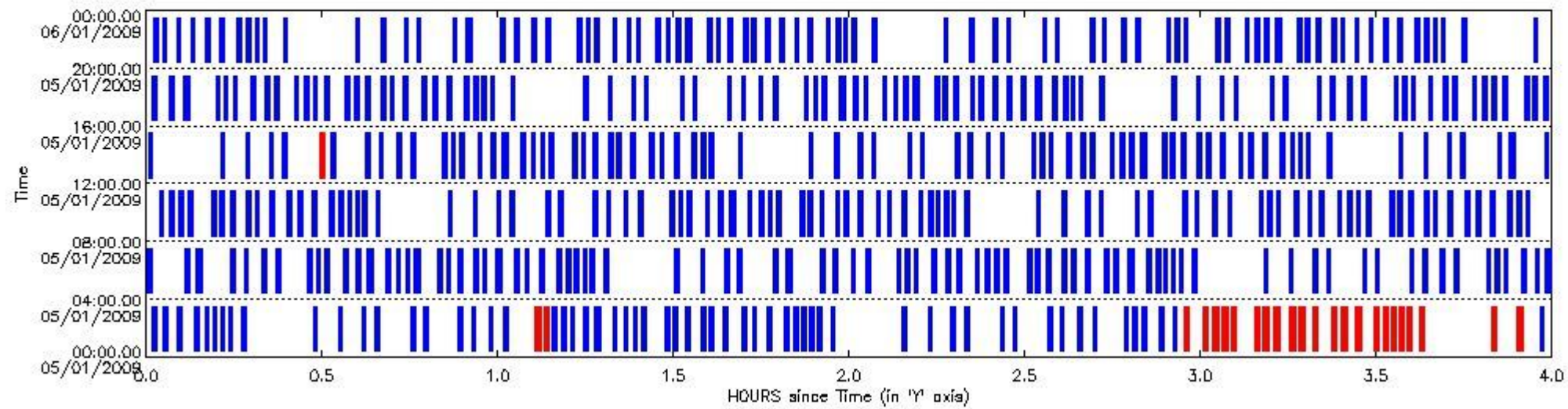
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
05-JAN-2009 01:06:25	GamLup	131	35813
05-JAN-2009 01:07:51	BetLup	109	35813
05-JAN-2009 02:57:08	DSA1053	0	35815
05-JAN-2009 03:00:22	TheCar	124	35815
05-JAN-2009 03:02:09	BetCar	29	35815
05-JAN-2009 03:03:43	lotCar	71	35815
05-JAN-2009 03:05:12	EpsCar	41	35815
05-JAN-2009 03:09:14	AlpCar	2	35815
05-JAN-2009 03:10:37	ZetPup	70	35815
05-JAN-2009 03:12:34	PiPup	117	35815
05-JAN-2009 03:15:16	21EpsCMa	23	35815
05-JAN-2009 03:16:46	24Omi2CMa	179	35815
05-JAN-2009 03:19:09	9AlpCMa	1	35815
05-JAN-2009 03:22:18	19BetOri	7	35815
05-JAN-2009 03:24:06	46EpsOri	30	35815

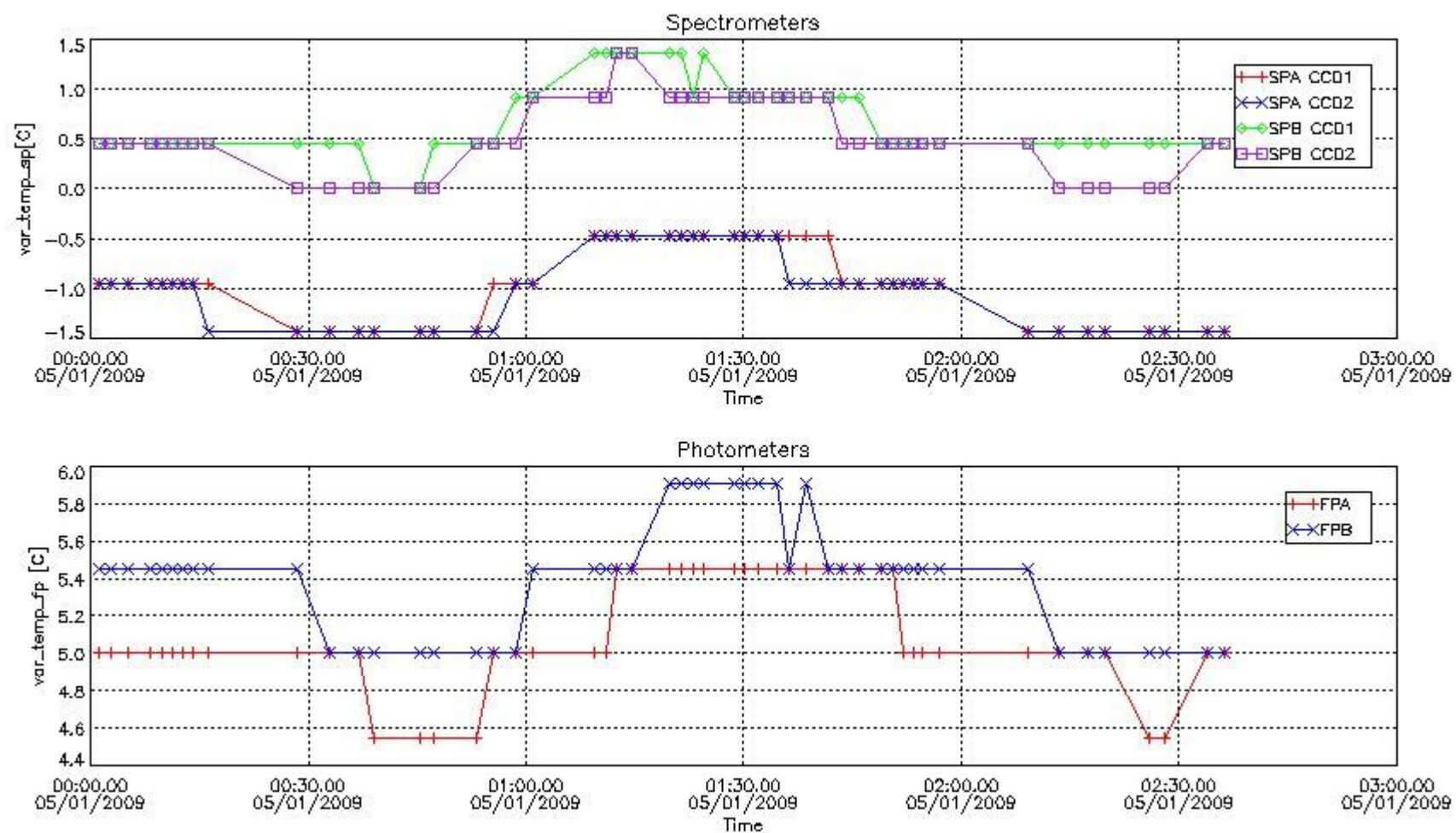
05-JAN-2009 03:26:30	58AlpOri	14	35815
05-JAN-2009 03:29:31	24GamGem	44	35815
05-JAN-2009 03:31:10	13MuGem	151	35815
05-JAN-2009 03:32:34	12BetTau	28	35815
05-JAN-2009 03:33:55	3lotAur	114	35815
05-JAN-2009 03:35:13	37TheAur	107	35815
05-JAN-2009 03:37:29	13AlpAur	6	35815
05-JAN-2009 03:49:43	1AlpUMi	49	35815
05-JAN-2009 03:54:03	7BetUMi	60	35815
05-JAN-2009 12:29:32	40ZetHer	133	35820

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_1PNPDE20090105_000104_000000462075_00188_35813_3720.N1	05-JAN-2009 00:01:04	Straylight	45.500	7	19Bet Ori	0.10000	14000.	91	35813	No
2	GOM_TRA_1PNPDE20090105_000252_000000432075_00188_35813_3721.N1	05-JAN-2009 00:02:52	Straylight	43.000	30	46Eps Ori	1.6940	30000.	86	35813	No
3	GOM_TRA_1PNPDE20090105_000517_000000502075_00188_35813_3722.N1	05-JAN-2009 00:05:17	Twilight	50.000	14	58Alp Ori	0.87000	3000.0	100	35813	No
4	GOM_TRA_1PNPDE20090105_000818_000000472075_00188_35813_3723.N1	05-JAN-2009 00:08:18	Twilight	47.000	44	24Gam Gem	1.9280	11000.	94	35813	No
5	GOM_TRA_1PNPDE20090105_000958_000000462075_00188_35813_3724.N1	05-JAN-2009 00:09:58	Bright	46.000	151	13Mu Gem	2.8900	3000.0	92	35813	No
6	GOM_TRA_1PNPDE20090105_001121_000000382075_00188_35813_3725.N1	05-JAN-2009 00:11:21	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	35813	No
7	GOM_TRA_1PNPDE20090105_001242_000000372075_00188_35813_3726.N1	05-JAN-2009 00:12:42	Bright	36.500	114	3lot Aur	2.6930	4600.0	73	35813	No
8	GOM_TRA_1PNPDE20090105_001400_000000382075_00188_35813_3727.N1	05-JAN-2009 00:14:00	Bright	37.500	107	37The Aur	2.6490	11000.	75	35813	No
9	GOM_TRA_1PNPDE20090105_001615_000000522075_00188_35813_3728.N1	05-JAN-2009 00:16:15	Bright	52.000	6	13Alp Aur	0.080000	3400.0	104	35813	No
10	GOM_TRA_1PNPDE20090105_002830_000000362075_00188_35813_3729.N1	05-JAN-2009 00:28:30	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	35813	No
11	GOM_TRA_1PNPDE20090105_003250_000000352075_00188_35813_3730.N1	05-JAN-2009 00:32:50	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	35813	No
12	GOM_TRA_1PNPDE20090105_003650_000000382075_00188_35813_3731.N1	05-JAN-2009 00:36:50	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	35813	No
13	GOM_TRA_1PNPDE20090105_003905_000000362075_00188_35813_3732.N1	05-JAN-2009 00:39:05	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	35813	No
14	GOM_TRA_1PNPDE20090105_004517_000000352075_00188_35813_3733.N1	05-JAN-2009 00:45:17	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	35813	No
15	GOM_TRA_1PNPDE20090105_004723_000000462075_00188_35813_3734.N1	05-JAN-2009 00:47:23	Bright	45.500	67	5Alp CrB	2.2210	11000.	91	35813	No
16	GOM_TRA_1PNPDE20090105_005316_000000372075_00188_35813_3735.N1	05-JAN-2009 00:53:16	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	35813	No
17	GOM_TRA_1PNPDE20090105_005532_000000352075_00188_35813_3736.N1	05-JAN-2009 00:55:32	Bright	35.000	120	1Del Oph	2.7340	3200.0	70	35813	No
18	GOM_TRA_1PNPDE20090105_005830_000000412075_00188_35813_3737.N1	05-JAN-2009 00:58:30	Bright	41.000	104	27Bet Lib	2.6140	13100.	82	35813	No
19	GOM_TRA_1PNPDE20090105_010059_000000532075_00188_35813_3904.N1	05-JAN-2009 01:00:59	Bright	53.000	80	7Del Sco	2.3160	30000.	106	35813	No
20	GOM_TRA_1PNPDE20090105_010919_000000392075_00188_35813_3905.N1	05-JAN-2009 01:09:19	Dark	39.000	78	Alp Lup	2.3040	28000.	78	35813	No
21	GOM_TRA_1PNPDE20090105_011058_000000412075_00188_35813_3906.N1	05-JAN-2009 01:10:58	Dark	40.500	95	Zet Cen	2.5450	26000.	81	35813	No
22	GOM_TRA_1PNPDE20090105_011222_000000412075_00189_35814_3907.N1	05-JAN-2009 01:12:22	Dark	40.500	4	Alp1Cen	-0.010000	5800.0	81	35814	No
23	GOM_TRA_1PNPDE20090105_011440_000000472075_00189_35814_3908.N1	05-JAN-2009 01:14:40	Dark	46.500	64	Gam Cen	2.2000	10600.	93	35814	No
24	GOM_TRA_1PNPDE20090105_011945_000000382075_00189_35814_3909.N1	05-JAN-2009 01:19:45	Dark	38.000	124	The Car	2.7640	30000.	76	35814	No
25	GOM_TRA_1PNPDE20090105_012131_000000412075_00189_35814_3910.N1	05-JAN-2009 01:21:31	Dark	40.500	29	Bet Car	1.6720	10200.	81	35814	No
26	GOM_TRA_1PNPDE20090105_012305_000000472075_00189_35814_3911.N1	05-JAN-2009 01:23:05	Dark	47.000	71	lot Car	2.2460	7700.0	94	35814	No
27	GOM_TRA_1PNPDE20090105_012434_000000462075_00189_35814_3912.N1	05-JAN-2009 01:24:34	Dark	46.000	41	Eps Car	1.8600	4100.0	92	35814	No
28	GOM_TRA_1PNPDE20090105_012836_000000512075_00189_35814_3913.N1	05-JAN-2009 01:28:36	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	35814	No
29	GOM_TRA_1PNPDE20090105_013000_000000432075_00189_35814_3914.N1	05-JAN-2009 01:30:00	Dark	43.000	70	Zet Pup	2.2460	39000.	86	35814	No
30	GOM_TRA_1PNPDE20090105_013156_000000482075_00189_35814_3915.N1	05-JAN-2009 01:31:56	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	35814	No
31	GOM_TRA_1PNPDE20090105_013439_000000452075_00189_35814_3916.N1	05-JAN-2009 01:34:39	Straylight	45.000	23	21Eps CMa	1.5020	26000.	90	35814	No
32	GOM_TRA_1PNPDE20090105_013609_000000432075_00189_35814_3917.N1	05-JAN-2009 01:36:09	Straylight	42.500	179	24Omi2CMa	3.0320	24000.	85	35814	No
33	GOM_TRA_1PNPDE20090105_013831_000000472075_00189_35814_3918.N1	05-JAN-2009 01:38:31	Straylight	47.000	1	9Alp CMa	-1.4400	11000.	94	35814	No
34	GOM_TRA_1PNPDE20090105_014141_000000452075_00189_35814_3919.N1	05-JAN-2009 01:41:41	Straylight	44.500	7	19Bet Ori	0.10000	14000.	89	35814	No
35	GOM_TRA_1PNPDE20090105_014328_000000422075_00189_35814_3920.N1	05-JAN-2009 01:43:28	Straylight	42.000	30	46Eps Ori	1.6940	30000.	84	35814	No
36	GOM_TRA_1PNPDE20090105_014553_000000472075_00189_35814_3921.N1	05-JAN-2009 01:45:53	Twilight	46.500	14	58Alp Ori	0.87000	3000.0	93	35814	No
37	GOM_TRA_1PNPDE20090105_014853_000000482075_00189_35814_3922.N1	05-JAN-2009 01:48:53	Twilight	48.000	44	24Gam Gem	1.9280	11000.	96	35814	No
38	GOM_TRA_1PNPDE20090105_015033_000000482075_00189_35814_3923.N1	05-JAN-2009 01:50:33	Bright	47.500	151	13Mu Gem	2.8900	3000.0	95	35814	No
39	GOM_TRA_1PNPDE20090105_015157_000000372075_00189_35814_3924.N1	05-JAN-2009 01:51:57	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	35814	No
40	GOM_TRA_1PNPDE20090105_015318_000000382075_00189_35814_3925.N1	05-JAN-2009 01:53:18	Bright	37.500	114	3lot Aur	2.6930	4600.0	75	35814	No
41	GOM_TRA_1PNPDE20090105_015436_000000382075_00189_35814_3926.N1	05-JAN-2009 01:54:36	Bright	37.500	107	37The Aur	2.6490	11000.	75	35814	No
42	GOM_TRA_1PNPDE20090105_015652_000000432075_00189_35814_3927.N1	05-JAN-2009 01:56:52	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	35814	No
43	GOM_TRA_1PNPDE20090105_020906_000000362075_00189_35814_3928.N1	05-JAN-2009 02:09:06	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	35814	No
44	GOM_TRA_1PNPDE20090105_021326_000000412075_00189_35814_3929.N1	05-JAN-2009 02:13:26	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	35814	No

45	GOM_TRA_1PNPDE20090105_021726_000000392075_00189_35814_3930.N1	05-JAN-2009 02:17:26	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	35814	No
46	GOM_TRA_1PNPDE20090105_021941_000000522075_00189_35814_3931.N1	05-JAN-2009 02:19:41	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	35814	No
47	GOM_TRA_1PNPDE20090105_022554_000000342075_00189_35814_3932.N1	05-JAN-2009 02:25:54	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	35814	No
48	GOM_TRA_1PNPDE20090105_022759_000000392075_00189_35814_3933.N1	05-JAN-2009 02:27:59	Bright	38.500	67	5Alp CrB	2.2210	11000.	77	35814	No
49	GOM_TRA_1PNPDE20090105_023353_000000552075_00189_35814_3934.N1	05-JAN-2009 02:33:53	Bright	55.000	102	24Alp Ser	2.6000	4250.0	110	35814	No
50	GOM_TRA_1PNPDE20090105_023608_000000352075_00189_35814_3935.N1	05-JAN-2009 02:36:08	Bright	35.000	120	1Del Oph	2.7340	3200.0	70	35814	No

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



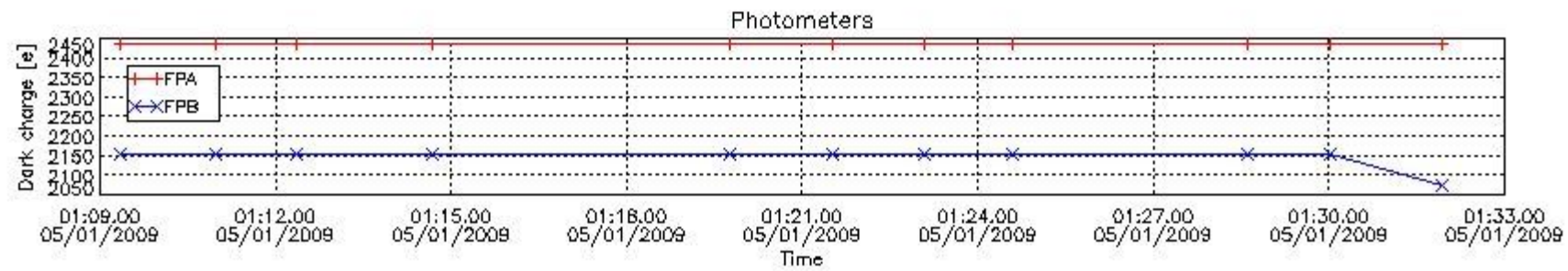
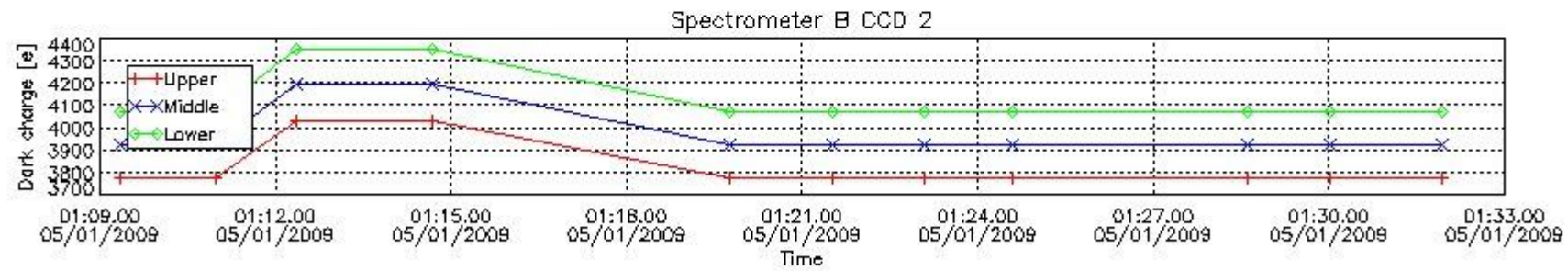
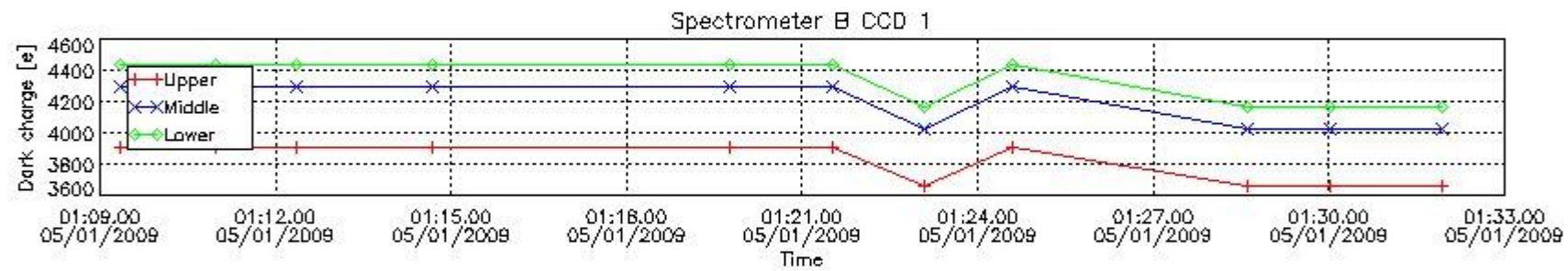
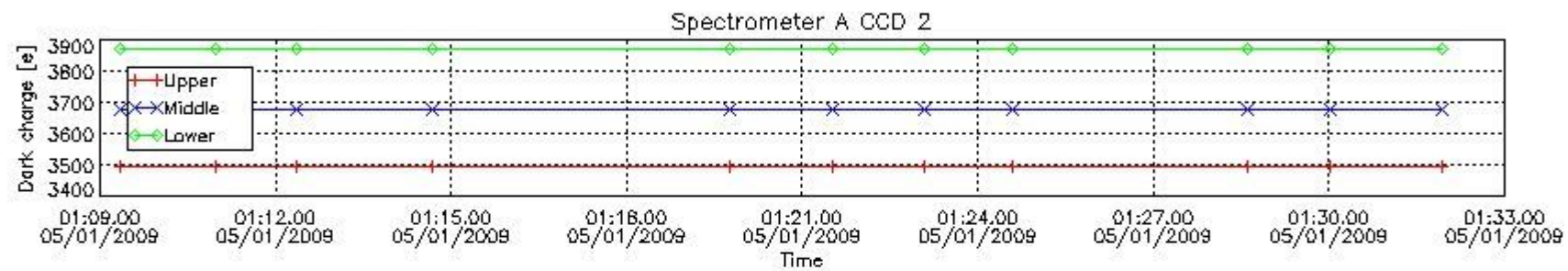
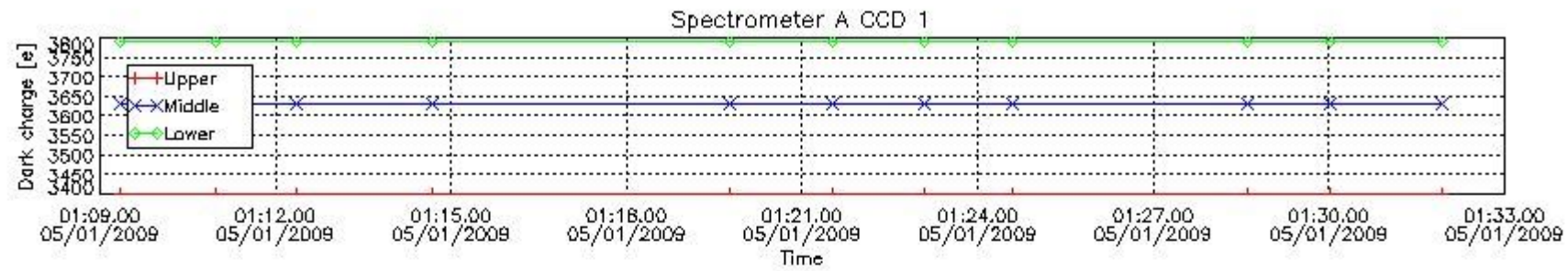
4. Overview of dark signal processing per product

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



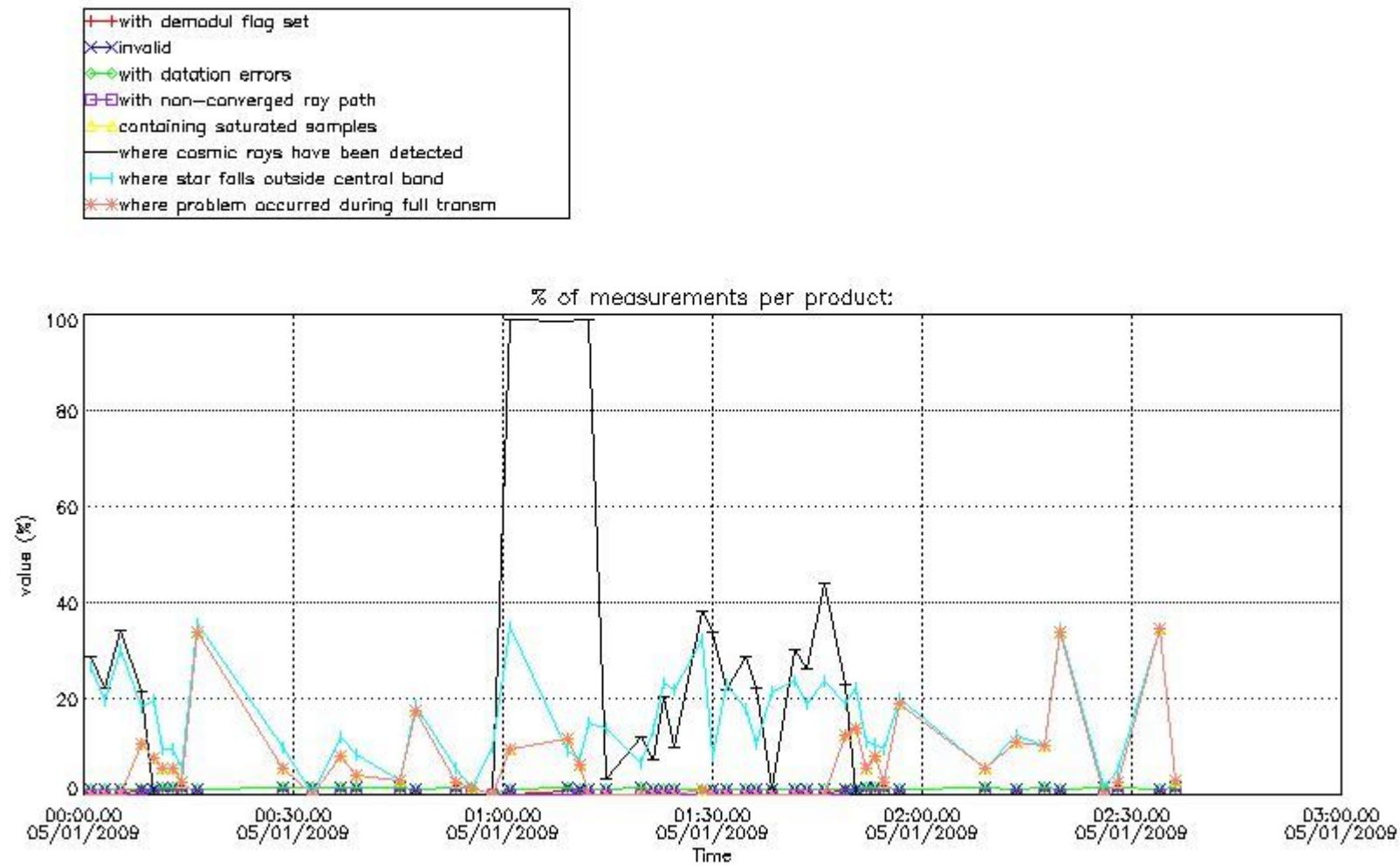
5. Demodulation flag and quality information monitoring

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.

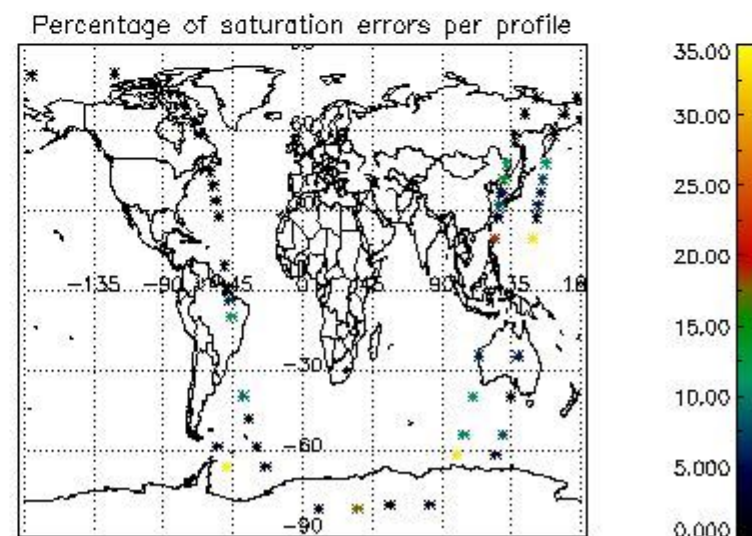
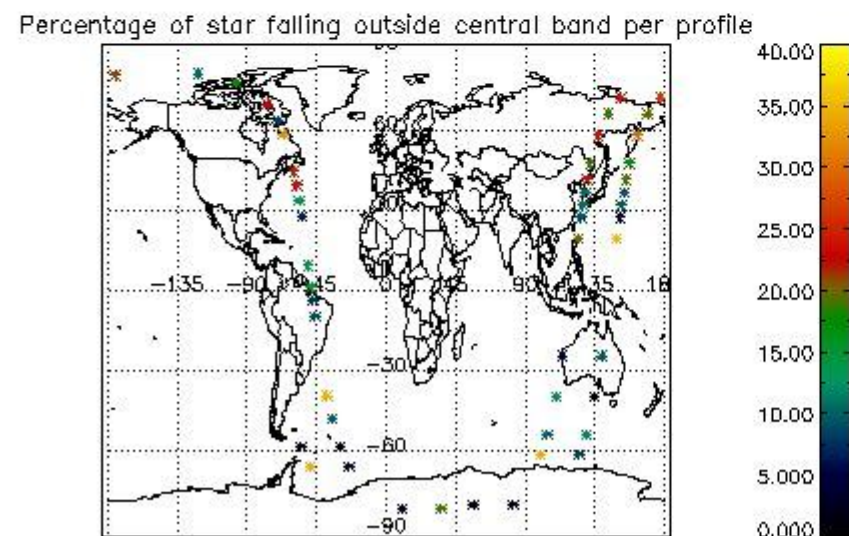
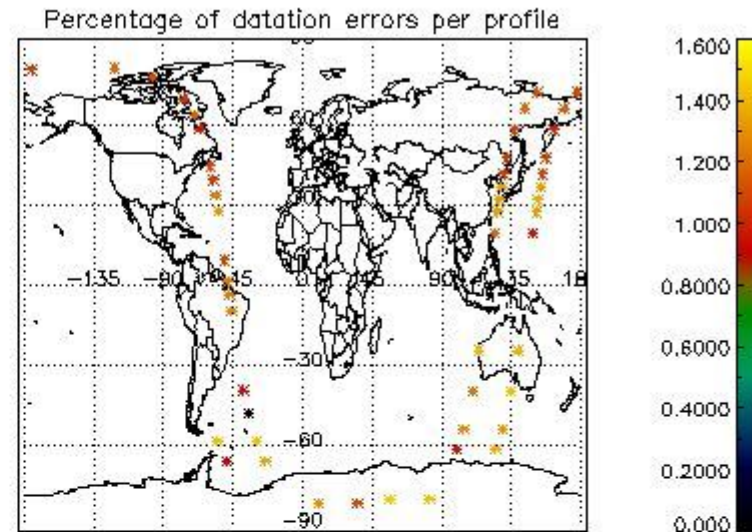
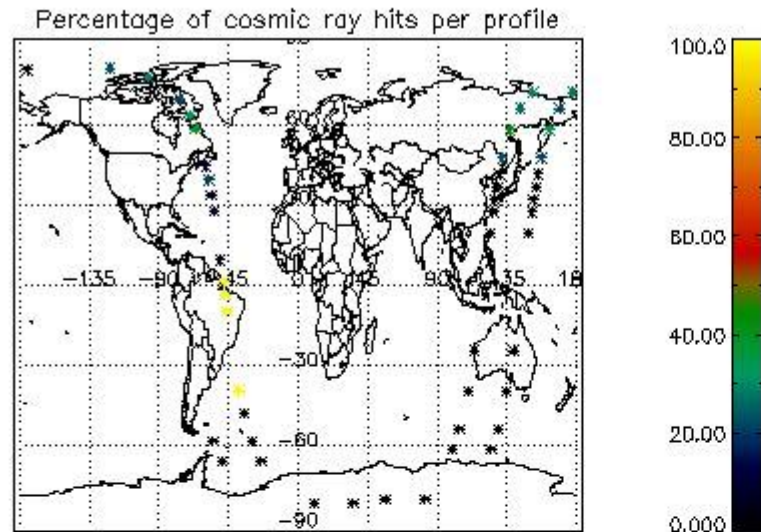
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



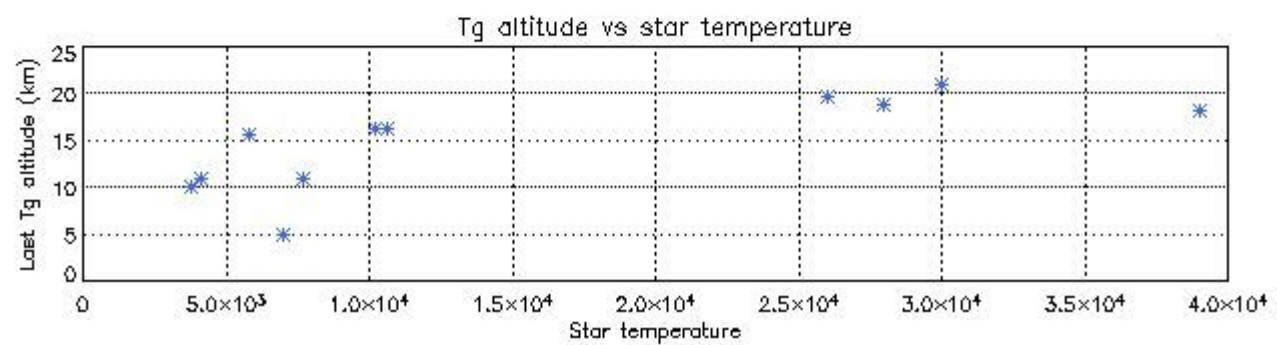
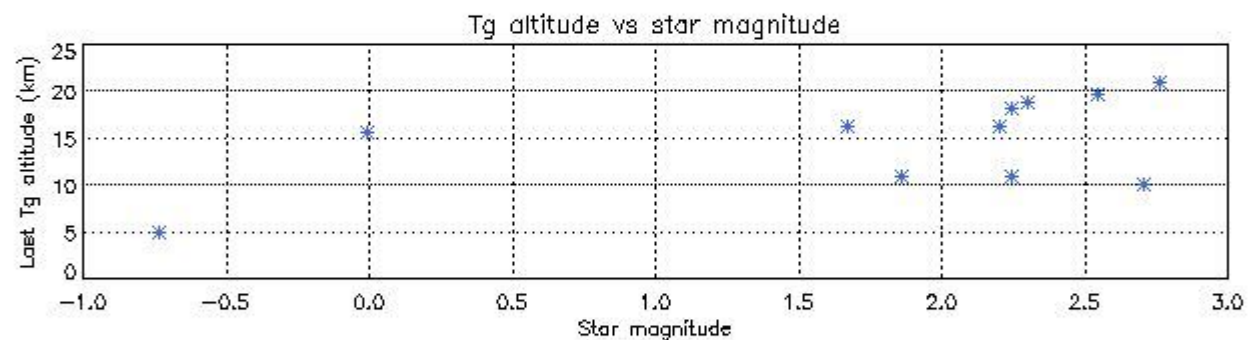
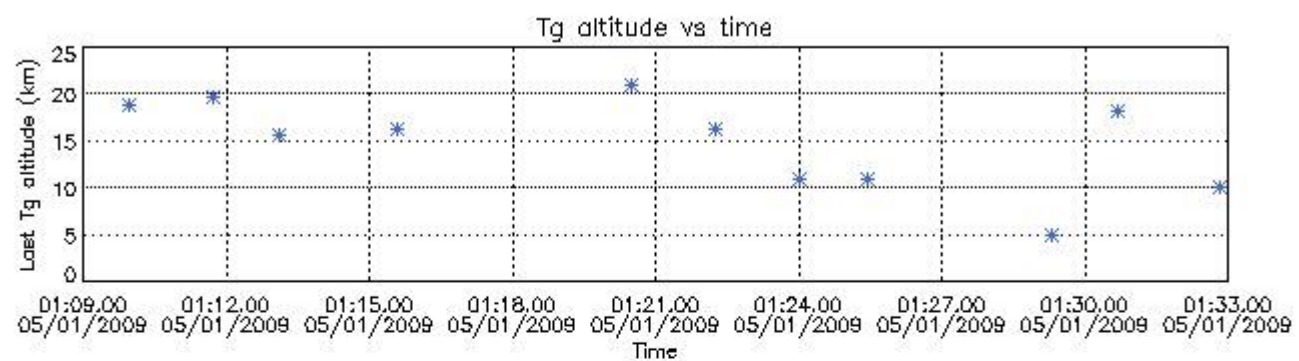
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.769	17.002	NaN
St. deviation:	4.9532	6.5388	NaN
Maximum:	20.917	26.098	NaN
Minimum:	4.9160	3.3908	NaN
Number of data:	11.000	28.000	NaN

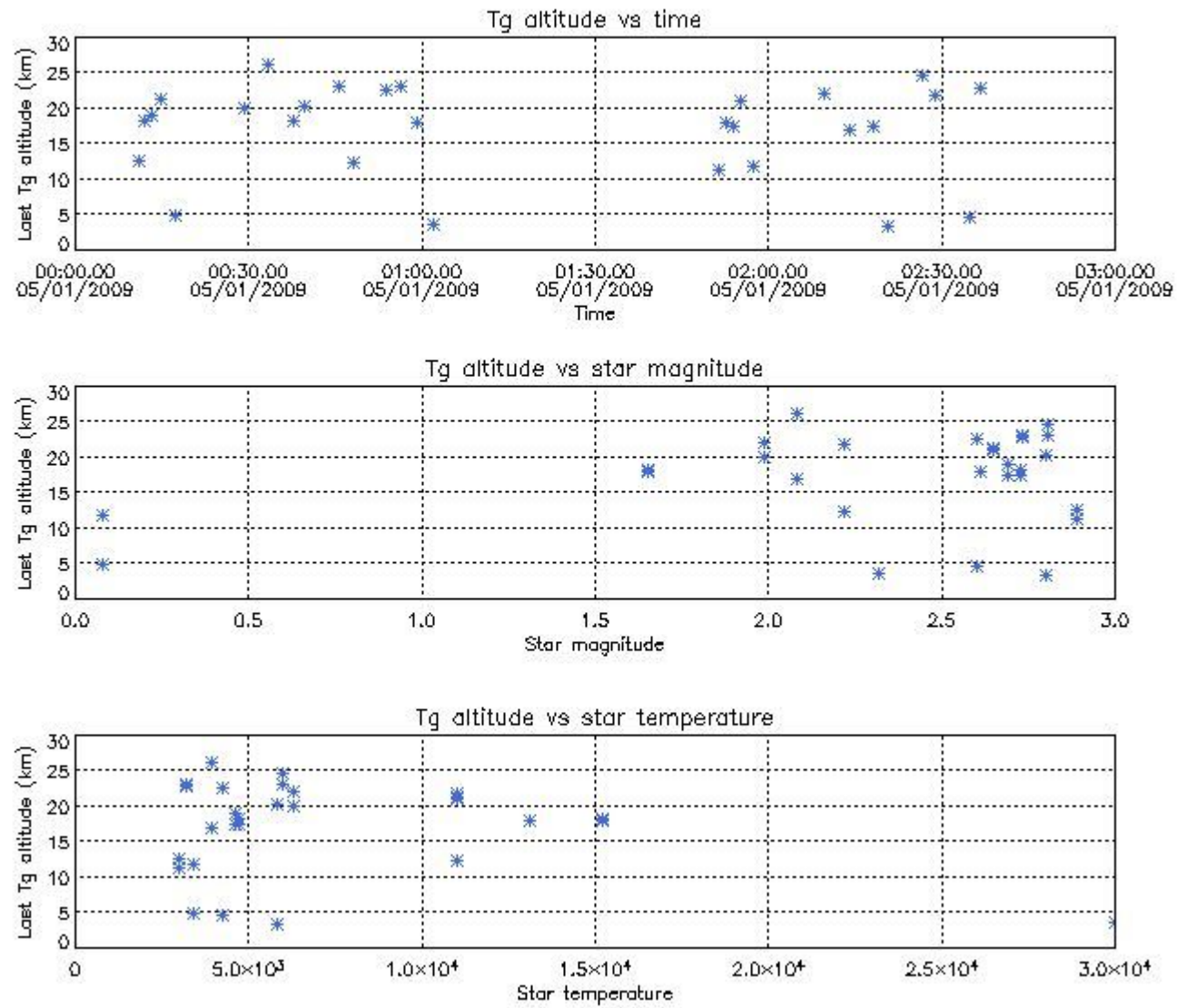
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

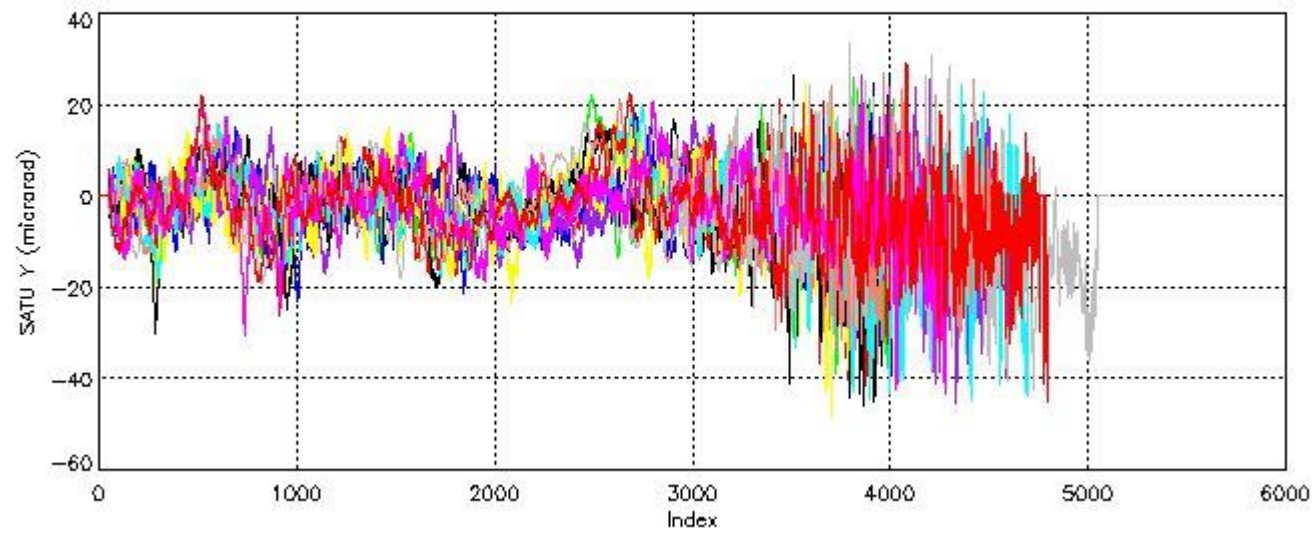
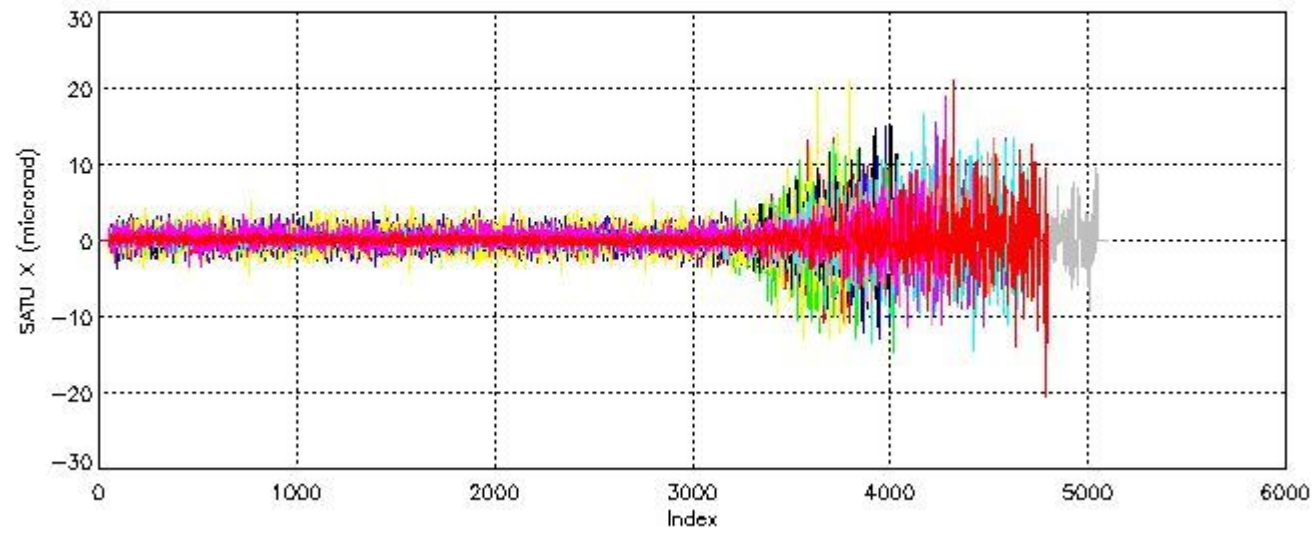


7. Star Acquisition and Tracking Unit (SATU)

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:	0.14680	-0.99277	0.058233	-0.56635
St. deviation:	0.69745	6.4888	0.67097	6.1413
Maximum:	5.1000	22.200	4.4000	19.700
Minimum:	-4.6000	-30.700	-4.4000	-22.600

Number of data:	10250.	10250.	24150.	24150.
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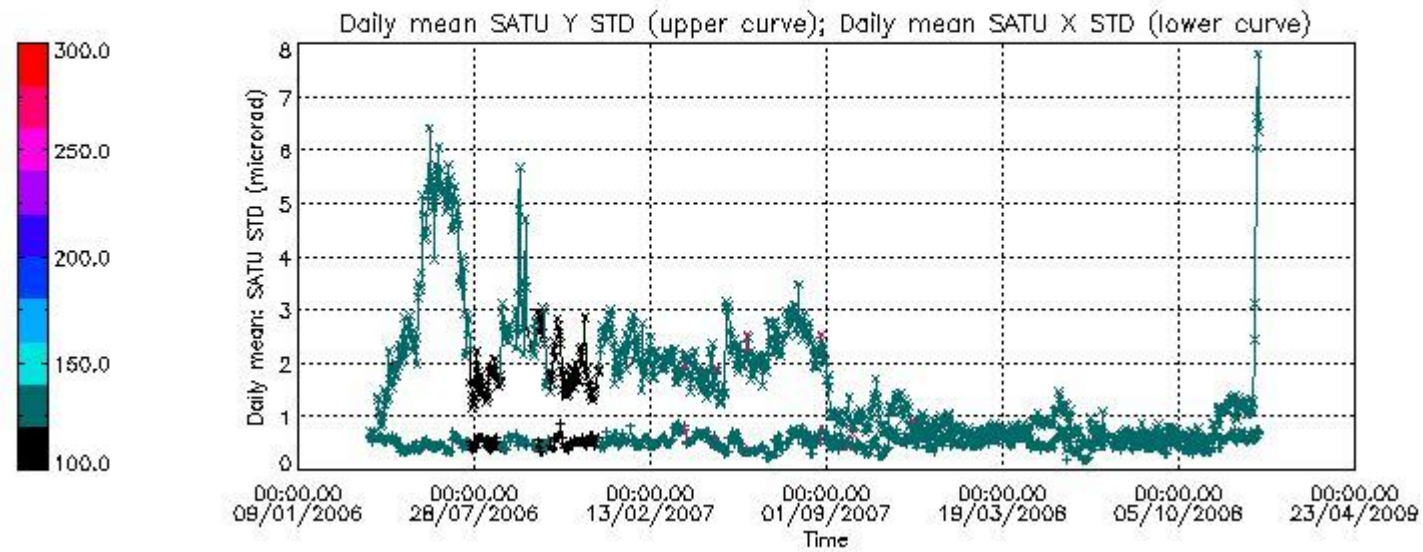
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

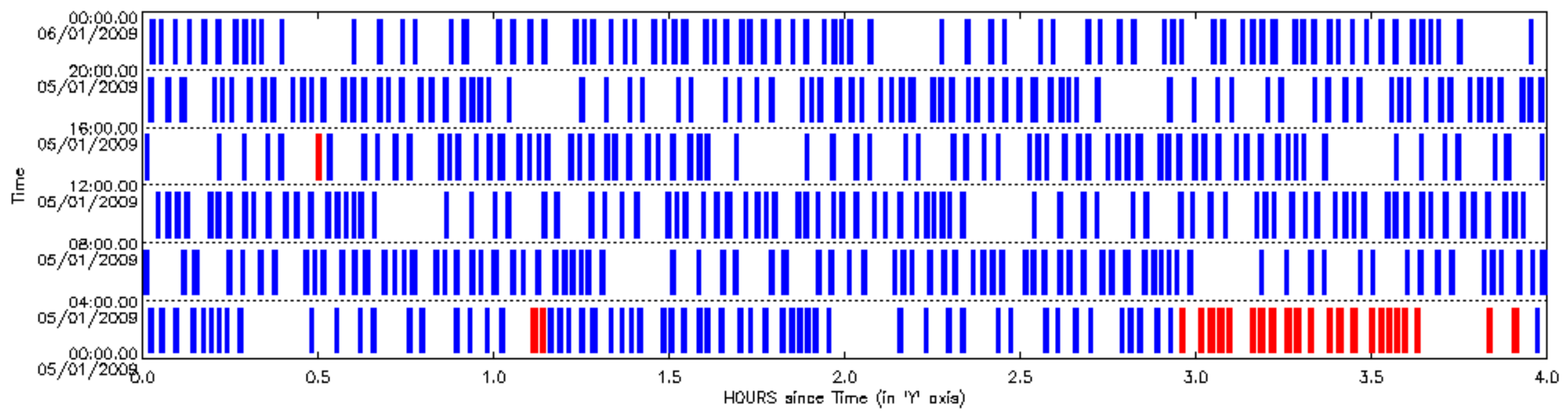
Lower curve: STD of SATU X axis

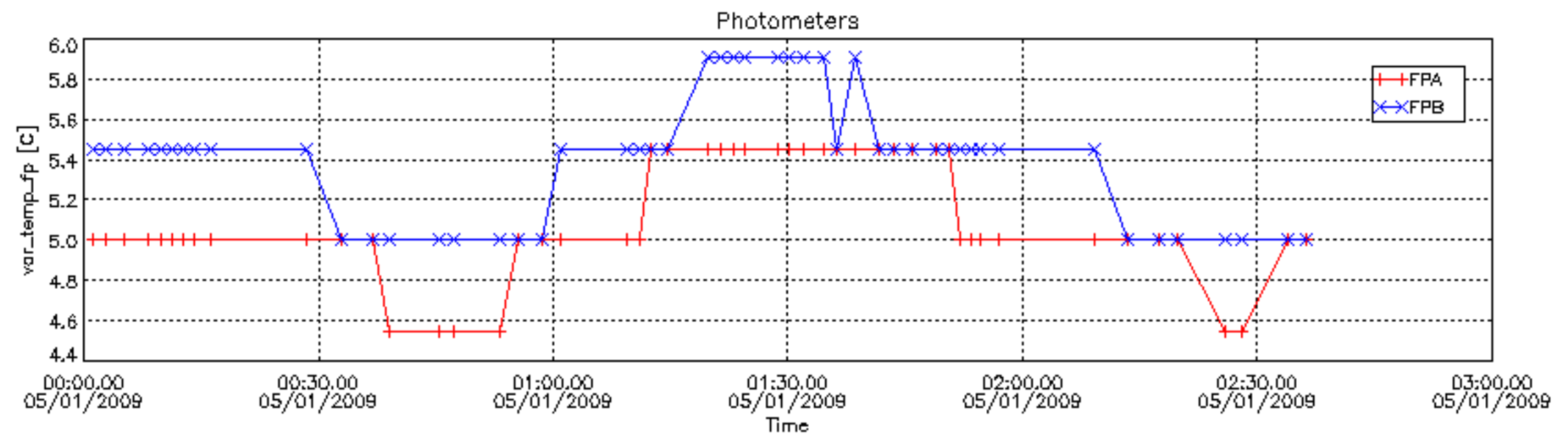
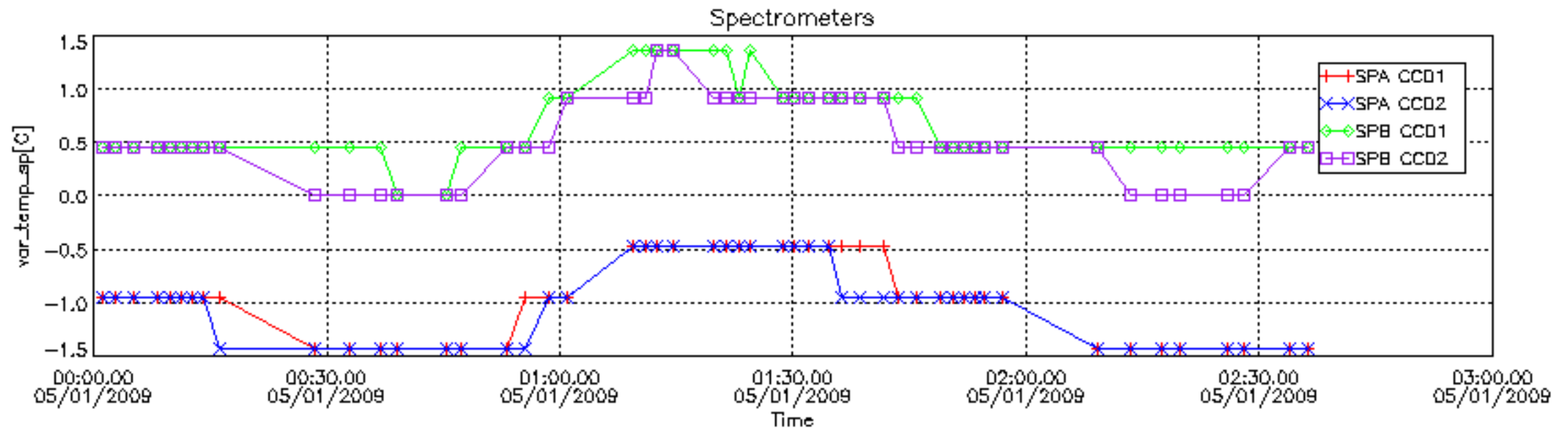


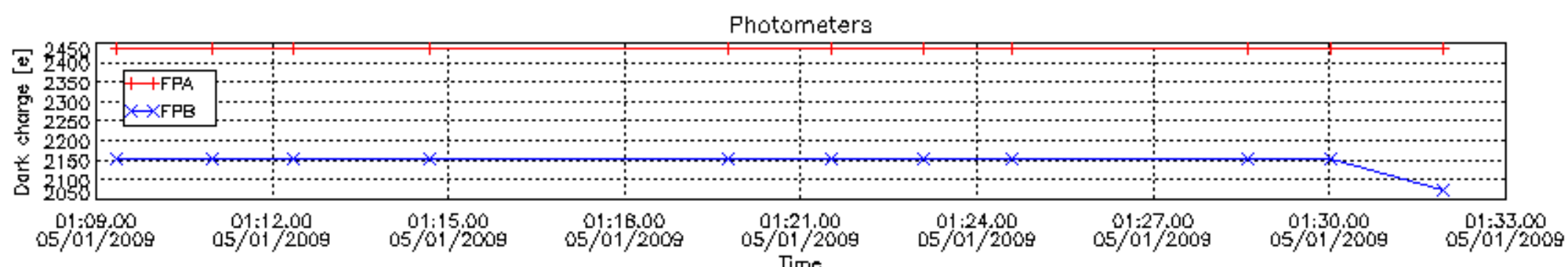
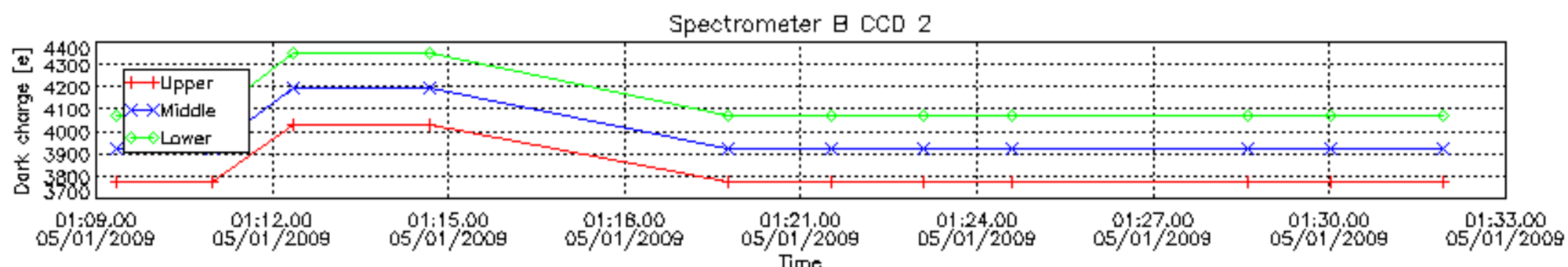
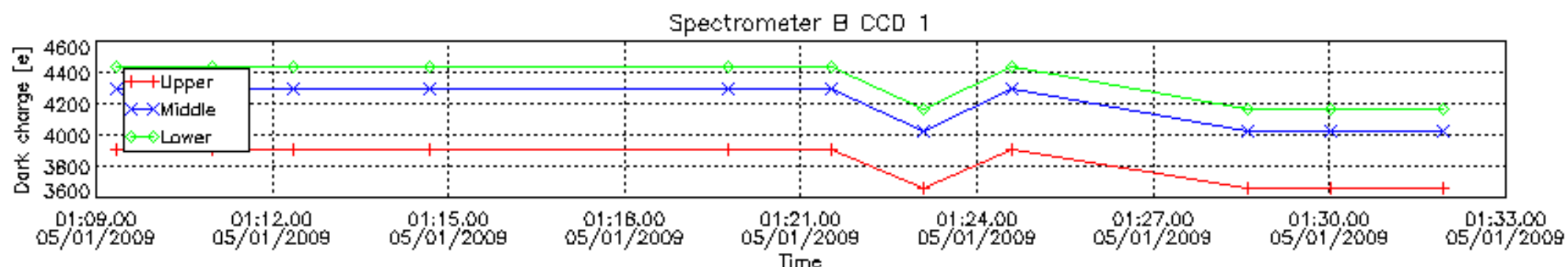
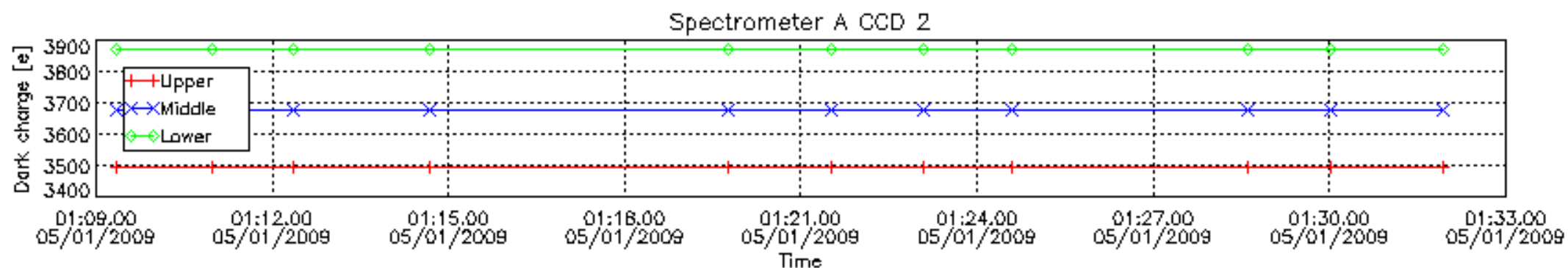
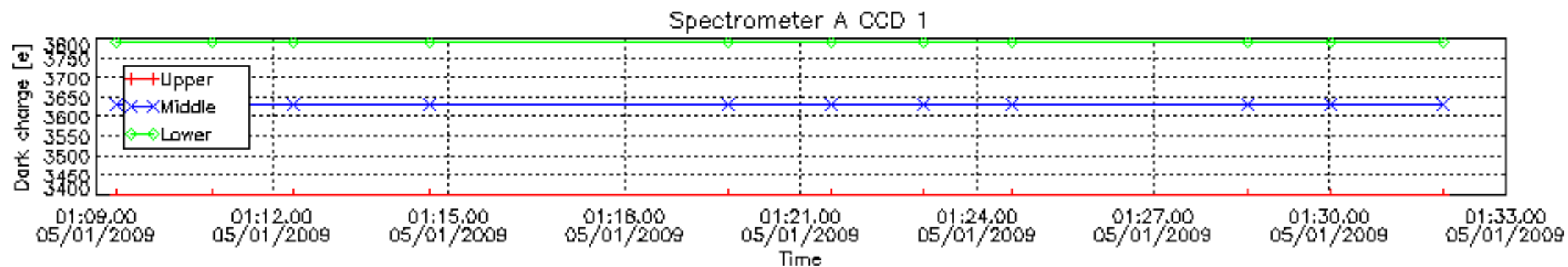
8. Auxiliary Data Files used for the production reported in section 2.4

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.

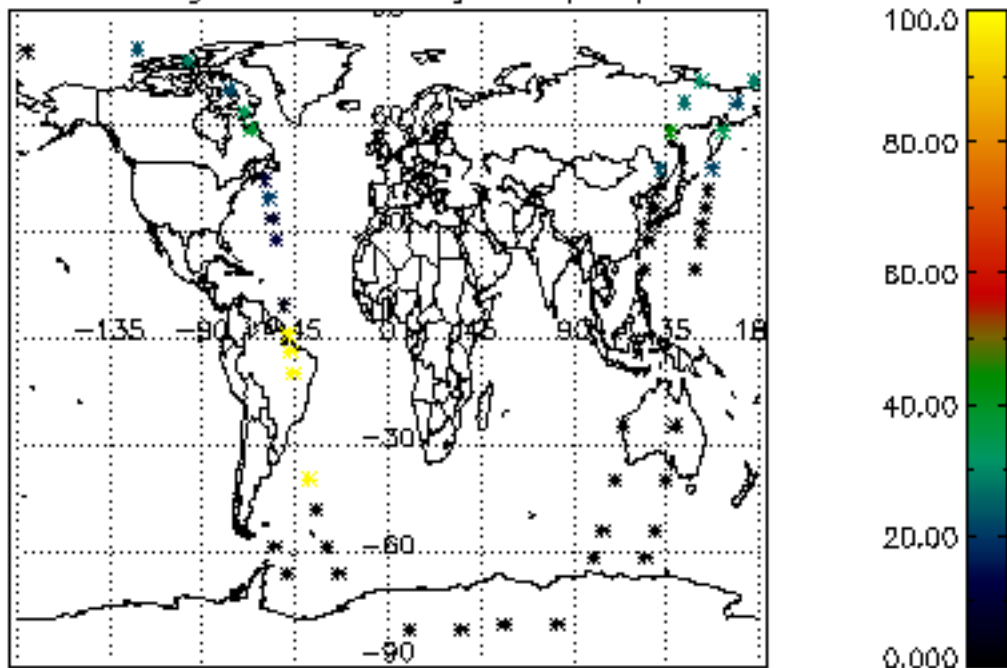
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-JAN-2009 00:01:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20081229_162214_20081227_000000_20100101_000000	1	05-JAN-2009 00:01:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-JAN-2009 00:01:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-JAN-2009 00:01:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-JAN-2009 00:01:04
ECMWF_FILE	AUX_ECF_AXNECM20090104_062112_20090104_210000_20090105_090000	1	05-JAN-2009 00:01:04
OPTIONAL_ECMWF_FILE	MISSING	1	05-JAN-2009 00:01:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090104_213542_000057382075_00186_35811_7097.N1	1	05-JAN-2009 00:01:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090104_231639_000057382075_00187_35812_7098.N1	19	05-JAN-2009 01:00:59



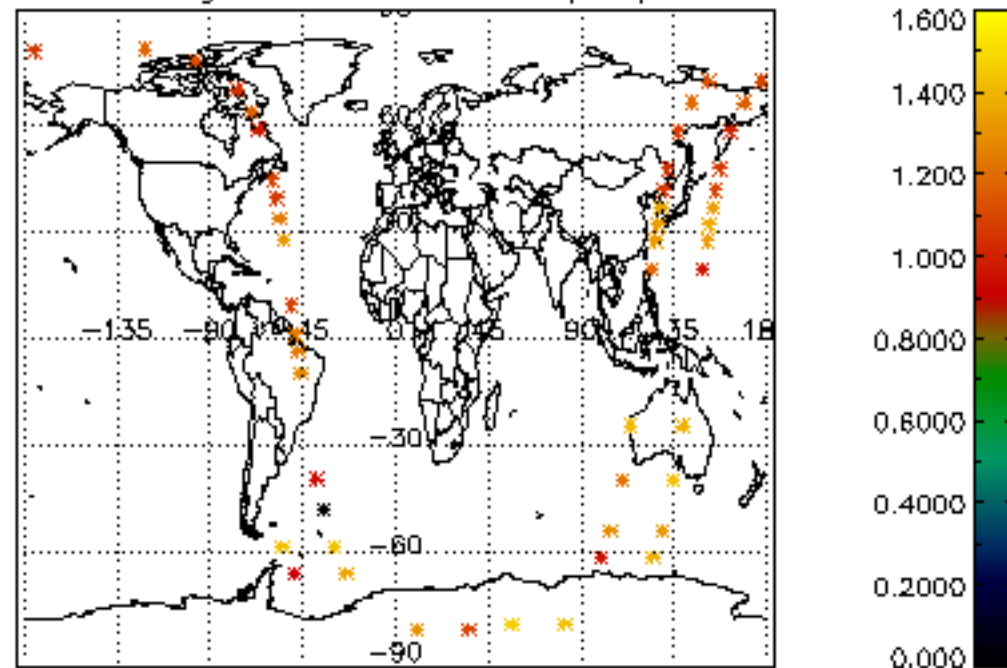




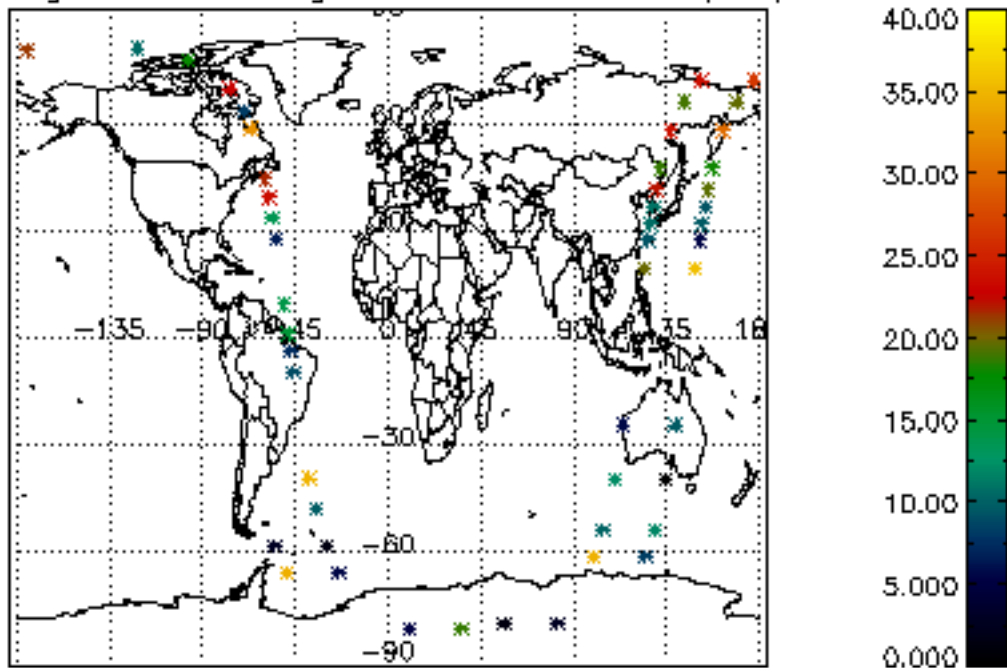
Percentage of cosmic ray hits per profile



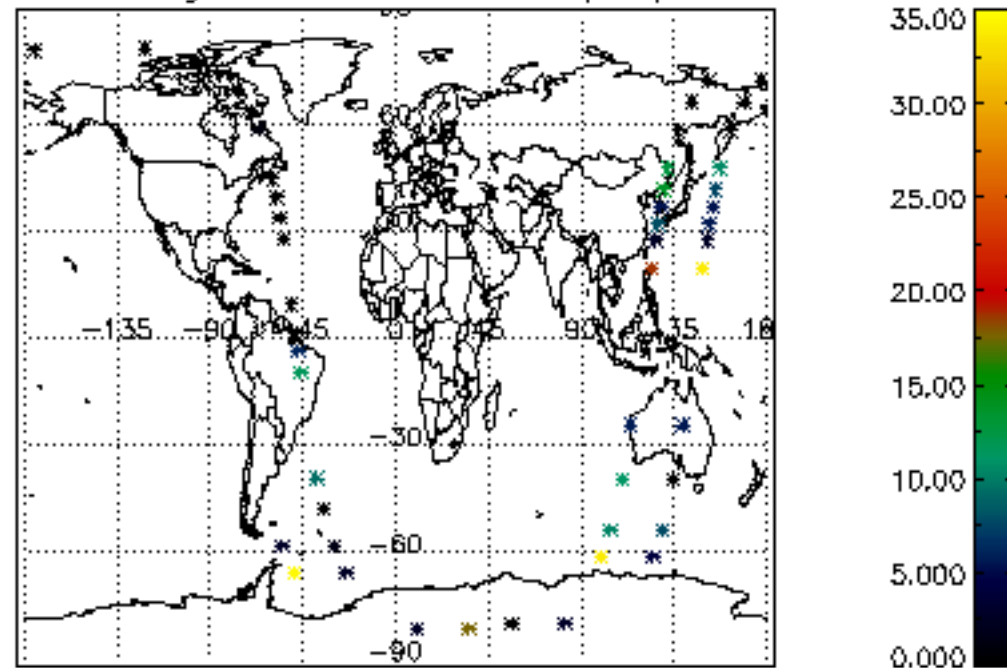
Percentage of datation errors per profile



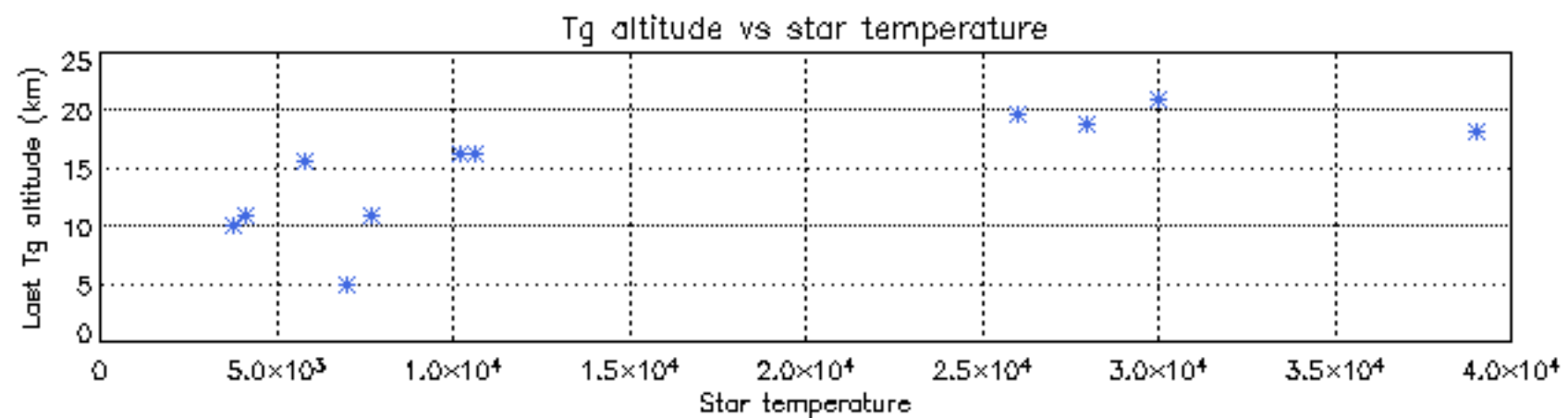
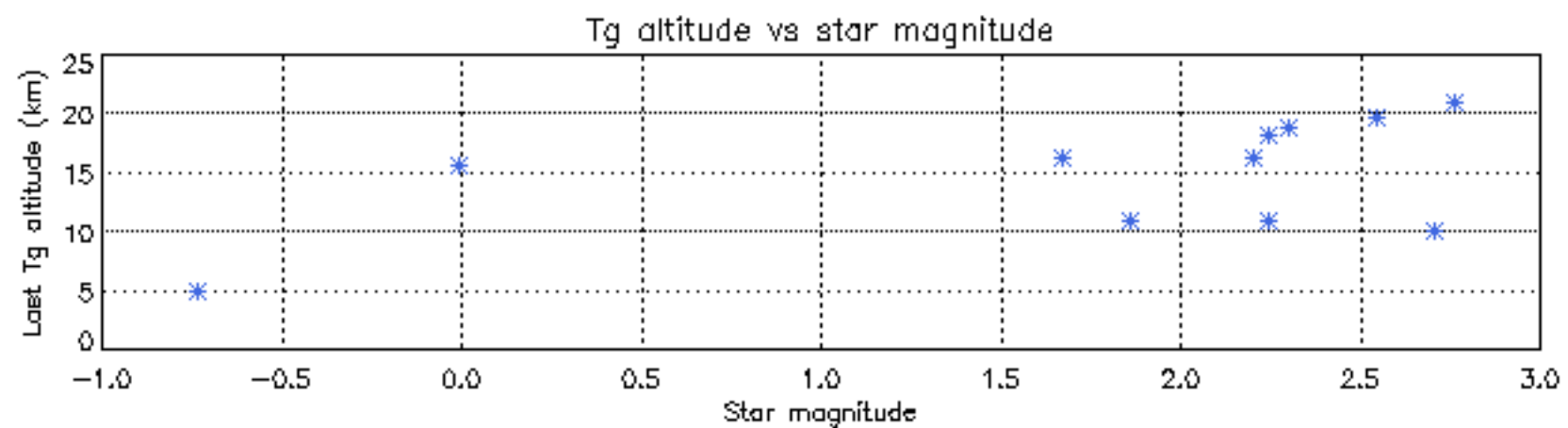
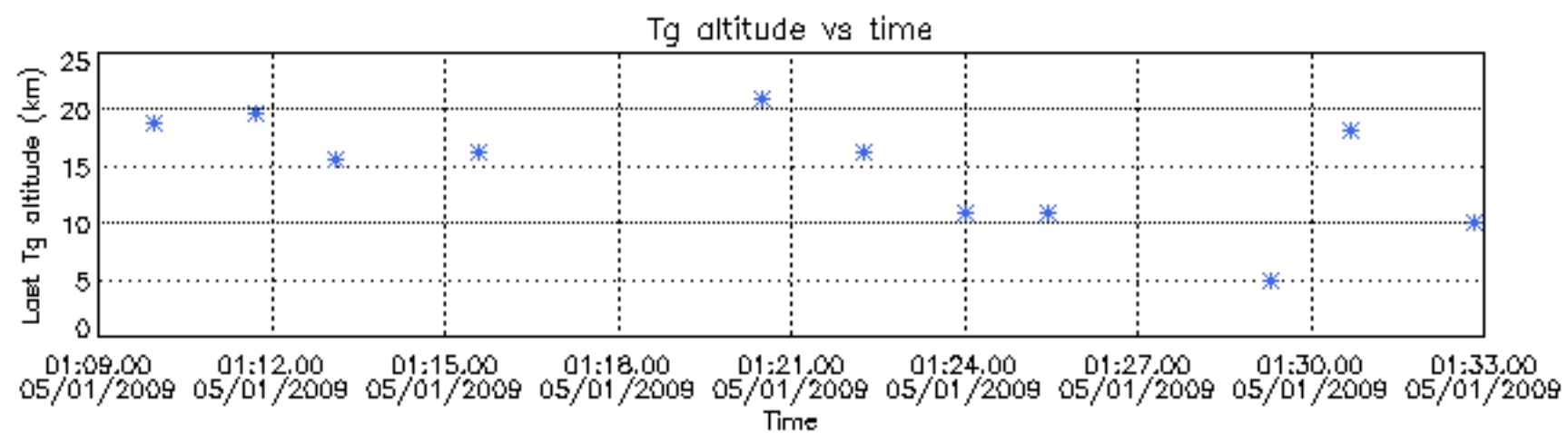
Percentage of star falling outside central band per profile



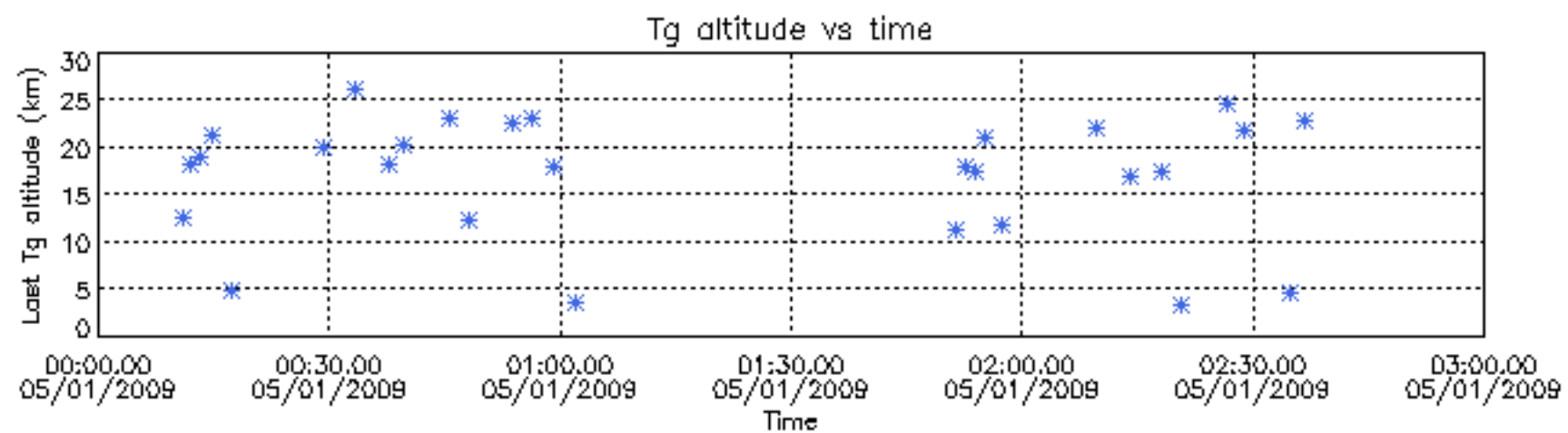
Percentage of saturation errors per profile

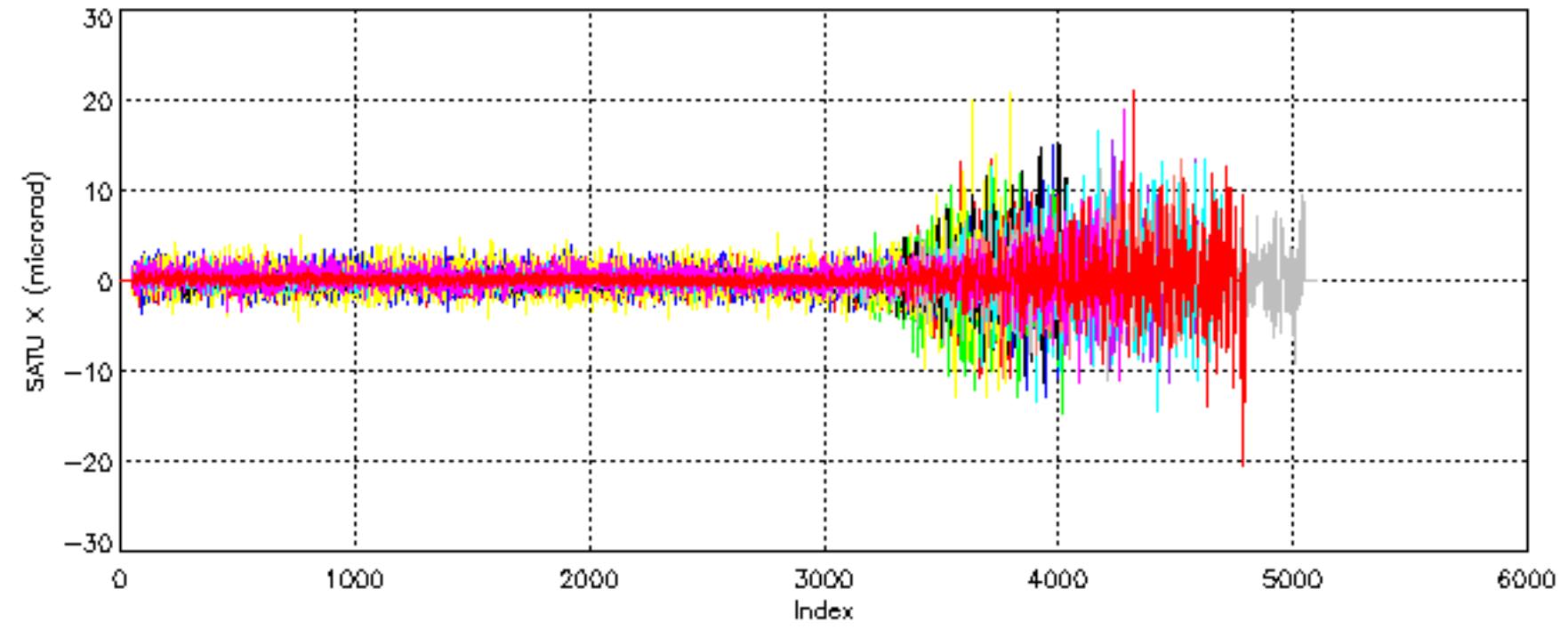


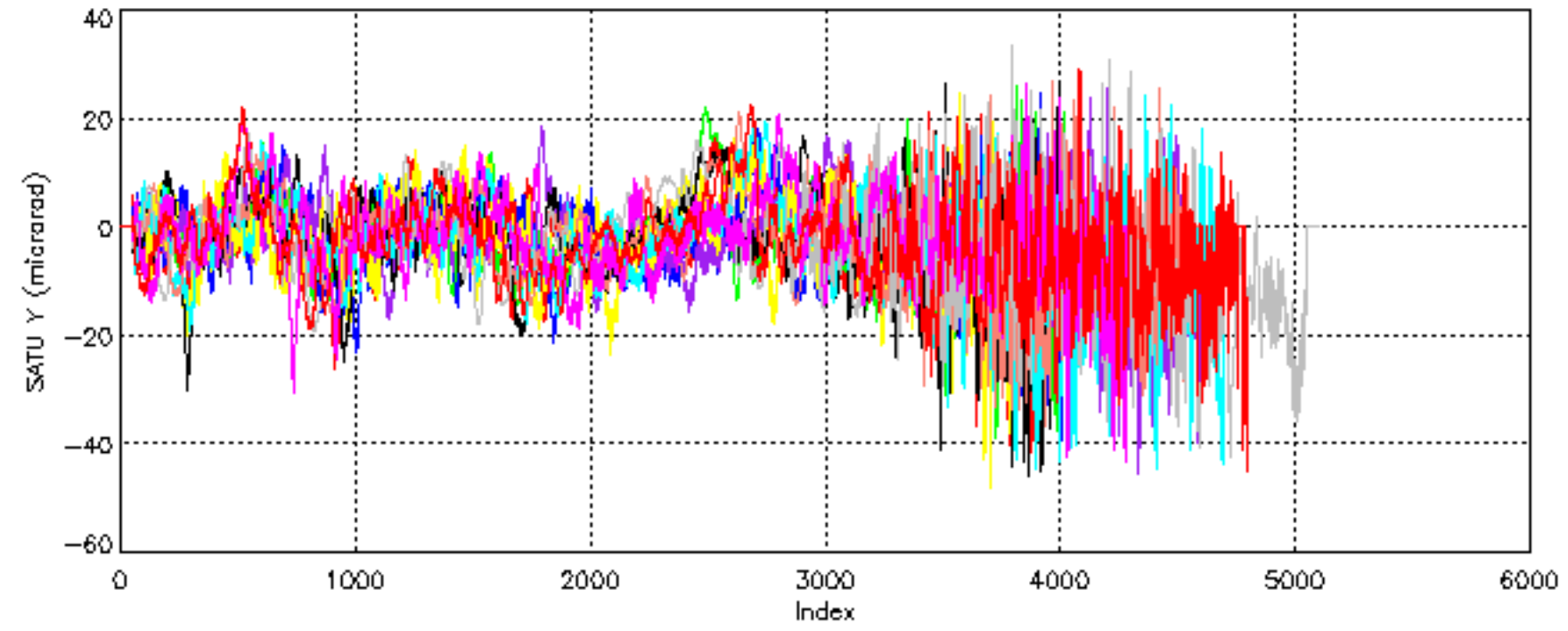
Tangent altitude at which the star is lost

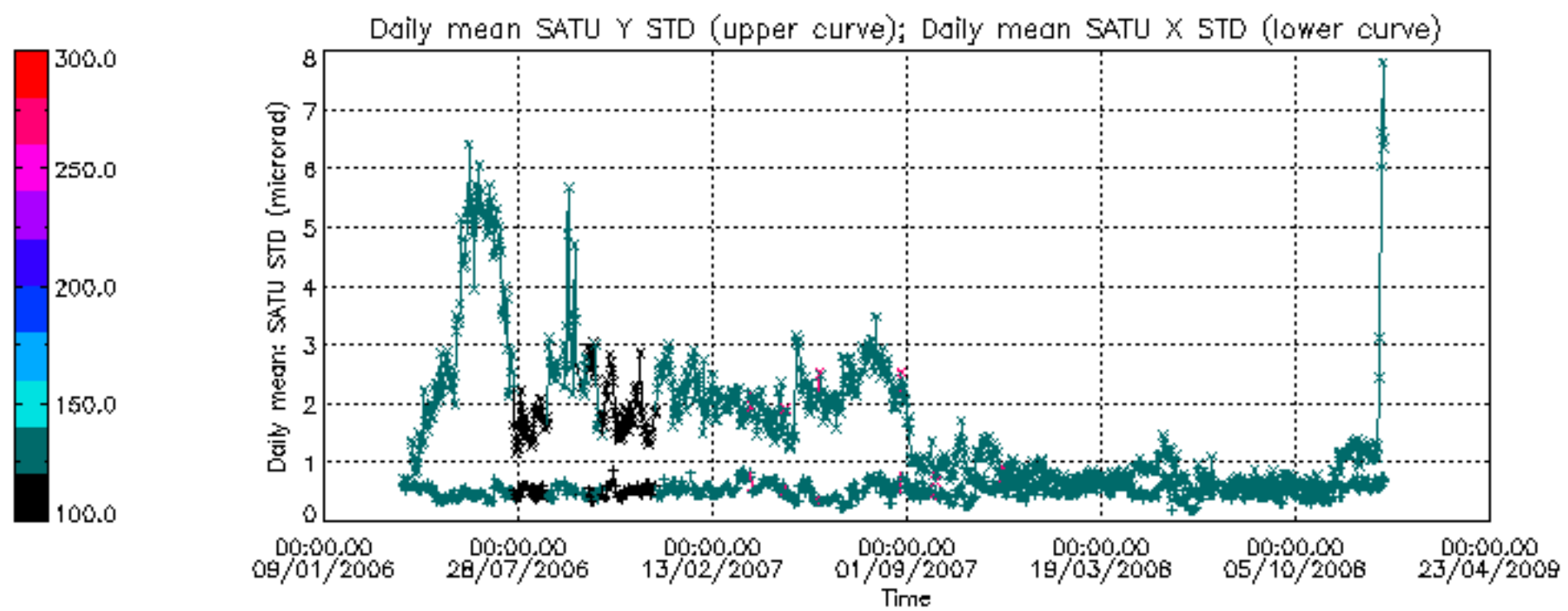


Tangent altitude at which the star is lost









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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
 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
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 20; 2692.3; 01-JAN-2009 02:22:47; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;35757
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 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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 5; -839.6; 01-JAN-2009 03:04:31; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 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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 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
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 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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 5; -839.2; 01-JAN-2009 04:45:07; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;35758
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 14; 634.0; 01-JAN-2009 05:09:40; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 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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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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19; 4578.0; 01-JAN-2009 21:20:48; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;35768
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11; 732.8; 01-JAN-2009 21:57:18; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;35769
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14; 1056.6; 01-JAN-2009 22:02:42; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;35769
15; 1178.9; 01-JAN-2009 22:04:44; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35769
16; 1345.7; 01-JAN-2009 22:07:31; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;35769
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13; 4547.6; 01-JAN-2009 12:57:17; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;35763
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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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3; 2030.8; 04-JAN-2009 08:59:54; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;35804
4; 2267.9; 04-JAN-2009 09:03:51; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;35804
5; 2394.5; 04-JAN-2009 09:05:57; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35804
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
10; 3685.3; 04-JAN-2009 09:27:28; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35804
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
 20; 5780.2; 04-JAN-2009 10:02:23; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;35804
 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
 24; 6185.7; 04-JAN-2009 10:09:09; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;35804
 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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 2; 1778.0; 04-JAN-2009 10:36:17; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;35805
 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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 21; 5780.7; 04-JAN-2009 11:43:00; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;35805
 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
18; 5043.6; 04-JAN-2009 13:11:18; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;35806
19; 5220.2; 04-JAN-2009 13:14:15; Bright; 45.5; 104; 27Bet Lib ; 2.61; 13100;occ; 91; 0;35806
20; 5387.7; 04-JAN-2009 13:17:02; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;35806
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
24; 5967.2; 04-JAN-2009 13:26:42; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;35806
25; 6052.8; 04-JAN-2009 13:28:08; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;35806
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
30; 6695.2; 04-JAN-2009 13:38:50; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;35806
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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4; 1885.4; 04-JAN-2009 13:59:16; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35807
5; 2031.9; 04-JAN-2009 14:01:43; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;35807
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
8; 2475.5; 04-JAN-2009 14:09:06; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35807
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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11; 3423.9; 04-JAN-2009 14:24:55; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;35807
12; 3684.9; 04-JAN-2009 14:29:15; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35807
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
15; 4431.1; 04-JAN-2009 14:41:42; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;35807
16; 4556.1; 04-JAN-2009 14:43:47; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;35807
17; 4907.9; 04-JAN-2009 14:49:38; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 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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3; 1588.9; 04-JAN-2009 15:34:55; Dark ; 47.5; 1; 9Alp CMa ; -1.44; 11000;occ; 95; 0;35808
4; 1777.8; 04-JAN-2009 15:38:04; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;35808
5; 1885.7; 04-JAN-2009 15:39:52; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35808
6; 2031.1; 04-JAN-2009 15:42:18; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;35808
7; 2212.8; 04-JAN-2009 15:45:19; Dark ; 30.0; 44; 24Gam Gem ; 1.93; 11000;occ; 60; 0;35808
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 33; 5168.1; 12-JAN-2009 22:25:14; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;35926
 34; 5294.3; 12-JAN-2009 22:27:20; Dark ; 51.0; 104; 27Bet Lib ; 2.61; 13100;occ; 102; 0;35926

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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
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22; 6742.9; 31-JAN-2009 09:29:32; Dark ; 32.0; 159; Ups Car ; 2.92; 7200;occ; 64; 0;36190
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4; 2456.5; 31-JAN-2009 09:58:42; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;36191
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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
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27;	7447.5;	31-JAN-2009	13:02:29;	Dark	;	29.5;	88;	31Eta CMa	;	2.45;	20000;occ;	59;	0;	36192