

GOMOS Daily Report 08-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	14JAN2009 05:41:29
Data source version	GOMOS/5.00
Start time of products	08JAN2009 00:01:27
Stop time of products	08JAN2009 02:42:06
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)

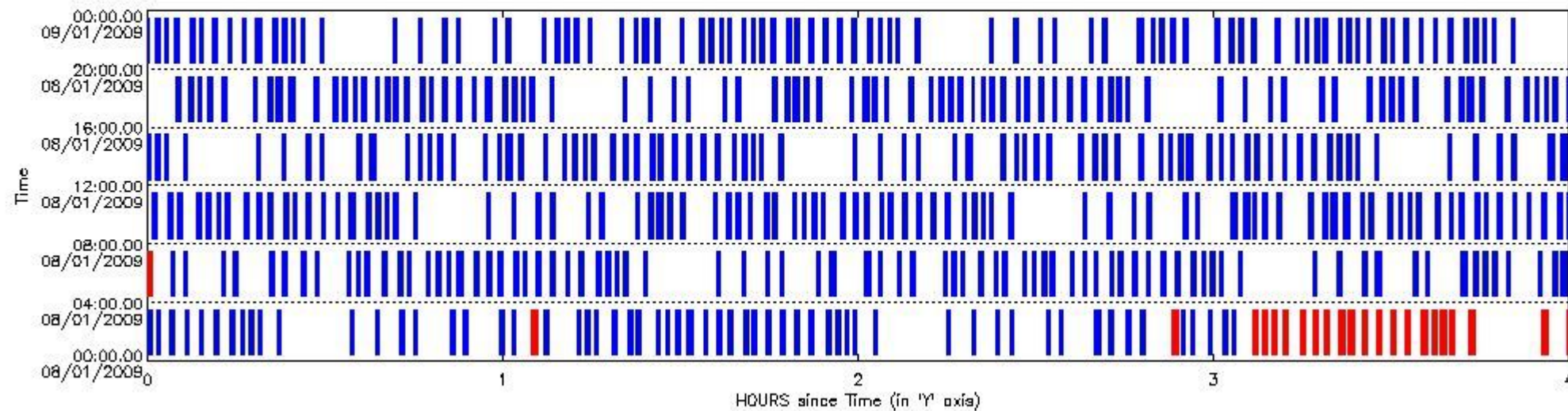
2.1 Level 0 products arrived in PCF (see template [here](#))

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
08-JAN-2009 01:04:41	27BetLib	104	35856
08-JAN-2009 02:53:03	GamLup	131	35857
08-JAN-2009 03:06:29	TheCar	124	35858
08-JAN-2009 03:08:09	BetCar	29	35858
08-JAN-2009 03:09:49	lotCar	71	35858
08-JAN-2009 03:11:36	DSA1030	0	35858
08-JAN-2009 03:14:31	Gam2Vel	34	35858
08-JAN-2009 03:16:41	ZetPup	70	35858
08-JAN-2009 03:18:32	PiPup	117	35858
08-JAN-2009 03:21:12	21EpsCMa	23	35858
08-JAN-2009 03:22:40	24Omi2CMa	179	35858
08-JAN-2009 03:24:59	9AlpCMa	1	35858
08-JAN-2009 03:27:27	53KapOri	56	35858
08-JAN-2009 03:29:55	46EpsOri	30	35858
08-JAN-2009 03:32:16	58AlpOri	14	35858

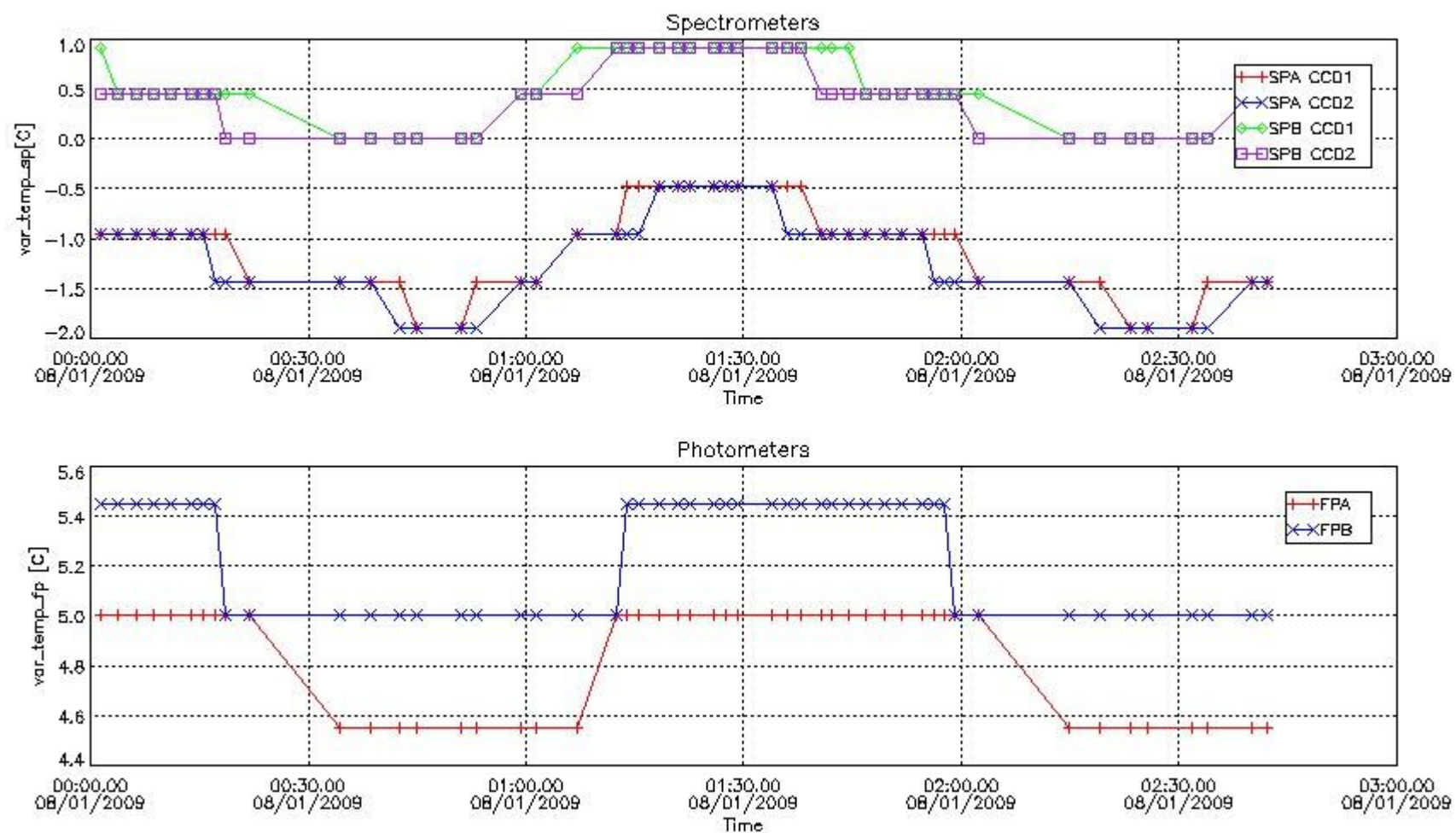
08-JAN-2009 03:35:06	24GamGem	44	35858
08-JAN-2009 03:36:47	13MuGem	151	35858
08-JAN-2009 03:38:20	12BetTau	28	35858
08-JAN-2009 03:39:45	3IotAur	114	35858
08-JAN-2009 03:43:04	34BetAur	42	35858
08-JAN-2009 03:55:28	1AlpUMi	49	35858
08-JAN-2009 03:59:43	7BetUMi	60	35858

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_1PNPDE20090108_000127_000000422075_00231_35856_7645.N1	08-JAN-2009 00:01:27	Straylight	41.500	179	24Omi2CMa	3.0320	24000.	83	35856	No
2	GOM_TRA_1PNPDE20090108_000346_000000492075_00231_35856_7646.N1	08-JAN-2009 00:03:46	Straylight	49.000	1	9Alp CMa	-1.4400	11000.	98	35856	No
3	GOM_TRA_1PNPDE20090108_000614_000000412075_00231_35856_7647.N1	08-JAN-2009 00:06:14	Straylight	40.500	56	53Kap Ori	2.0650	30000.	81	35856	No
4	GOM_TRA_1PNPDE20090108_000842_000000412075_00231_35856_7648.N1	08-JAN-2009 00:08:42	Straylight	41.000	30	46Eps Ori	1.6940	30000.	82	35856	No
5	GOM_TRA_1PNPDE20090108_001103_000000512075_00231_35856_7649.N1	08-JAN-2009 00:11:03	Twi_and_stray	50.500	14	58Alp Ori	0.87000	3000.0	101	35856	No
6	GOM_TRA_1PNPDE20090108_001354_000000452075_00231_35856_7650.N1	08-JAN-2009 00:13:54	Twi_and_stray	44.500	44	24Gam Gem	1.9280	11000.	89	35856	No
7	GOM_TRA_1PNPDE20090108_001533_000000472075_00231_35856_7651.N1	08-JAN-2009 00:15:33	Bright	46.500	151	13Mu Gem	2.8900	3000.0	93	35856	No
8	GOM_TRA_1PNPDE20090108_001706_000000382075_00231_35856_7652.N1	08-JAN-2009 00:17:06	Bright	38.000	28	12Bet Tau	1.6500	15200.	76	35856	No
9	GOM_TRA_1PNPDE20090108_001831_000000392075_00231_35856_7653.N1	08-JAN-2009 00:18:31	Bright	39.000	114	3Iot Aur	2.6930	4600.0	78	35856	No
10	GOM_TRA_1PNPDE20090108_002151_000000372075_00231_35856_7654.N1	08-JAN-2009 00:21:51	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	35856	No
11	GOM_TRA_1PNPDE20090108_003415_000000342075_00231_35856_7655.N1	08-JAN-2009 00:34:15	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	35856	No
12	GOM_TRA_1PNPDE20090108_003830_000000392075_00231_35856_7656.N1	08-JAN-2009 00:38:30	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	35856	No
13	GOM_TRA_1PNPDE20090108_004235_000000382075_00231_35856_7657.N1	08-JAN-2009 00:42:35	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	35856	No
14	GOM_TRA_1PNPDE20090108_004455_000000362075_00231_35856_7658.N1	08-JAN-2009 00:44:55	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	35856	No
15	GOM_TRA_1PNPDE20090108_005109_000000362075_00231_35856_7659.N1	08-JAN-2009 00:51:09	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	35856	No
16	GOM_TRA_1PNPDE20090108_005316_000000392075_00231_35856_7660.N1	08-JAN-2009 00:53:16	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	35856	No
17	GOM_TRA_1PNPDE20090108_005916_000000522075_00231_35856_7661.N1	08-JAN-2009 00:59:16	Bright	51.500	102	24Alp Ser	2.6000	4250.0	103	35856	No
18	GOM_TRA_1PNPDE20090108_010130_000000362075_00231_35856_7662.N1	08-JAN-2009 01:01:30	Bright	35.500	120	1Del Oph	2.7340	3200.0	71	35856	No
19	GOM_TRA_1PNPDE20090108_010658_000000462075_00231_35856_7817.N1	08-JAN-2009 01:06:58	Twi_and_stray	46.000	80	7Del Sco	2.3160	30000.	92	35856	No
20	GOM_TRA_1PNPDE20090108_011225_000000392075_00231_35856_7818.N1	08-JAN-2009 01:12:25	Dark	39.000	131	Gam Lup	2.8000	26000.	78	35856	No
21	GOM_TRA_1PNPDE20090108_011357_000000432075_00231_35856_7819.N1	08-JAN-2009 01:13:57	Dark	43.000	109	Bet Lup	2.6770	26000.	86	35856	No
22	GOM_TRA_1PNPDE20090108_011528_000000382075_00231_35856_7820.N1	08-JAN-2009 01:15:28	Dark	37.500	78	Alp Lup	2.3040	28000.	75	35856	No
23	GOM_TRA_1PNPDE20090108_011822_000000462075_00232_35857_7821.N1	08-JAN-2009 01:18:22	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	35857	No
24	GOM_TRA_1PNPDE20090108_012101_000000442075_00232_35857_7822.N1	08-JAN-2009 01:21:01	Dark	43.500	64	Gam Cen	2.2000	10600.	87	35857	No
25	GOM_TRA_1PNPDE20090108_012231_000000402075_00232_35857_7823.N1	08-JAN-2009 01:22:31	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	35857	No
26	GOM_TRA_1PNPDE20090108_012551_000000392075_00232_35857_7824.N1	08-JAN-2009 01:25:51	Dark	39.000	124	The Car	2.7640	30000.	78	35857	No
27	GOM_TRA_1PNPDE20090108_012730_000000392075_00232_35857_7825.N1	08-JAN-2009 01:27:30	Dark	39.000	29	Bet Car	1.6720	10200.	78	35857	No
28	GOM_TRA_1PNPDE20090108_012911_000000452075_00232_35857_7826.N1	08-JAN-2009 01:29:11	Dark	45.000	71	Iot Car	2.2460	7700.0	90	35857	No
29	GOM_TRA_1PNPDE20090108_013353_000000412075_00232_35857_7827.N1	08-JAN-2009 01:33:53	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	35857	No
30	GOM_TRA_1PNPDE20090108_013604_000000422075_00232_35857_7828.N1	08-JAN-2009 01:36:04	Dark	41.500	70	Zet Pup	2.2460	39000.	83	35857	No
31	GOM_TRA_1PNPDE20090108_013755_000000462075_00232_35857_7829.N1	08-JAN-2009 01:37:55	Straylight	45.500	117	Pi Pup	2.7060	3800.0	91	35857	No
32	GOM_TRA_1PNPDE20090108_014035_000000462075_00232_35857_7830.N1	08-JAN-2009 01:40:35	Straylight	46.000	23	21Eps CMa	1.5020	26000.	92	35857	No
33	GOM_TRA_1PNPDE20090108_014203_000000412075_00232_35857_7831.N1	08-JAN-2009 01:42:03	Straylight	40.500	179	24Omi2CMa	3.0320	24000.	81	35857	No
34	GOM_TRA_1PNPDE20090108_014422_000000502075_00232_35857_7832.N1	08-JAN-2009 01:44:22	Straylight	49.500	1	9Alp CMa	-1.4400	11000.	99	35857	No
35	GOM_TRA_1PNPDE20090108_014650_000000412075_00232_35857_7833.N1	08-JAN-2009 01:46:50	Straylight	40.500	56	53Kap Ori	2.0650	30000.	81	35857	No
36	GOM_TRA_1PNPDE20090108_014917_000000422075_00232_35857_7834.N1	08-JAN-2009 01:49:17	Straylight	41.500	30	46Eps Ori	1.6940	30000.	83	35857	No
37	GOM_TRA_1PNPDE20090108_015138_000000522075_00232_35857_7835.N1	08-JAN-2009 01:51:38	Twi_and_stray	52.000	14	58Alp Ori	0.87000	3000.0	104	35857	No
38	GOM_TRA_1PNPDE20090108_015429_000000452075_00232_35857_7836.N1	08-JAN-2009 01:54:29	Twi_and_stray	45.000	44	24Gam Gem	1.9280	11000.	90	35857	No
39	GOM_TRA_1PNPDE20090108_015609_000000452075_00232_35857_7837.N1	08-JAN-2009 01:56:09	Bright	45.000	151	13Mu Gem	2.8900	3000.0	90	35857	No
40	GOM_TRA_1PNPDE20090108_015742_000000392075_00232_35857_7838.N1	08-JAN-2009 01:57:42	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	35857	No
41	GOM_TRA_1PNPDE20090108_015907_000000372075_00232_35857_7839.N1	08-JAN-2009 01:59:07	Bright	37.000	114	3Iot Aur	2.6930	4600.0	74	35857	No
42	GOM_TRA_1PNPDE20090108_020227_000000382075_00232_35857_7840.N1	08-JAN-2009 02:02:27	Bright	38.000	42	34Bet Aur	1.9000	10200.	76	35857	No
43	GOM_TRA_1PNPDE20090108_021451_000000342075_00232_35857_7841.N1	08-JAN-2009 02:14:51	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	35857	No
44	GOM_TRA_1PNPDE20090108_021905_000000392075_00232_35857_7842.N1	08-JAN-2009 02:19:05	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	35857	No
45	GOM_TRA_1PNPDE20090108_022311_000000402075_00232_35857_7843.N1	08-JAN-2009 02:23:11	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	35857	No
46	GOM_TRA_1PNPDE20090108_022532_000000342075_00232_35857_7844.N1	08-JAN-2009 02:25:32	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	35857	No
47	GOM_TRA_1PNPDE20090108_023145_000000352075_00232_35857_7845.N1	08-JAN-2009 02:31:45	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	35857	No

48	GOM_TRA_1PNPDE20090108_023352_00000402075_00232_35857_7846.N1	08-JAN-2009 02:33:52	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	35857	No
49	GOM_TRA_1PNPDE20090108_023953_00000572075_00232_35857_7847.N1	08-JAN-2009 02:39:53	Bright	57.000	102	24Alp Ser	2.6000	4250.0	114	35857	No
50	GOM_TRA_1PNPDE20090108_024206_00000522075_00232_35857_7848.N1	08-JAN-2009 02:42:06	Bright	51.500	120	1Del Oph	2.7340	3200.0	103	35857	No

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



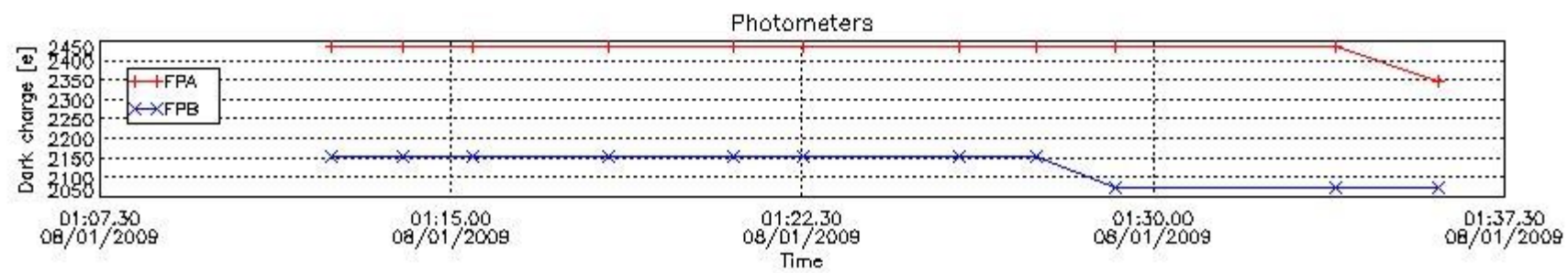
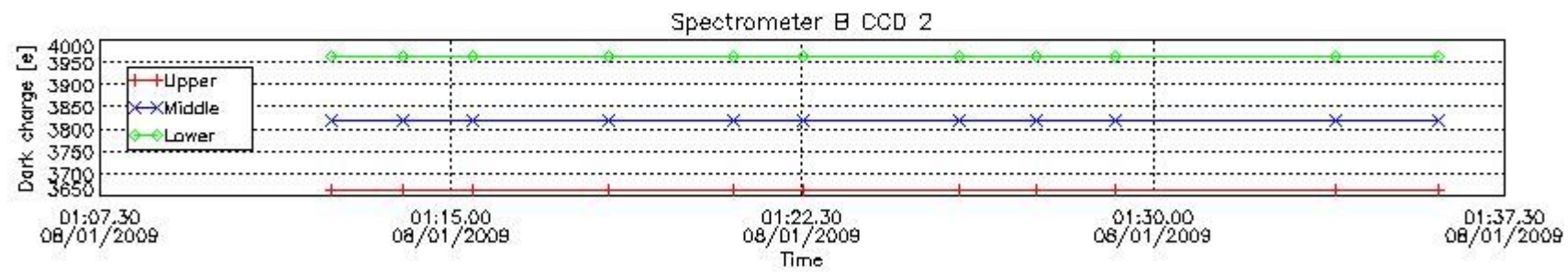
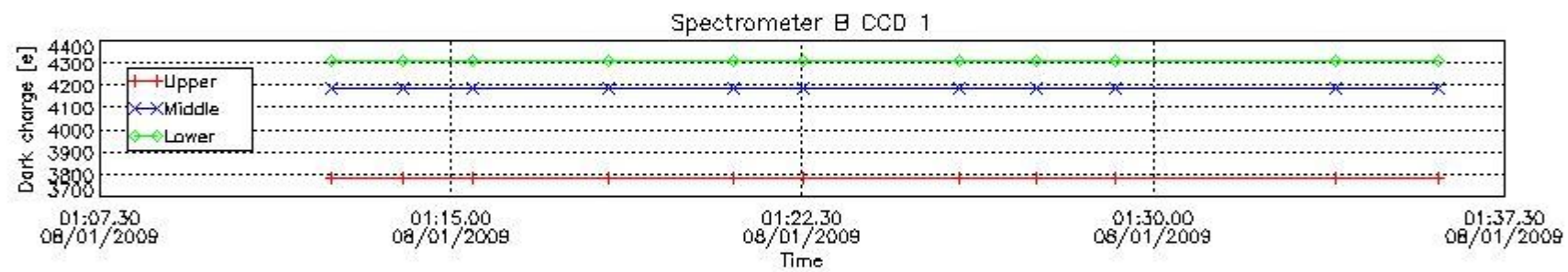
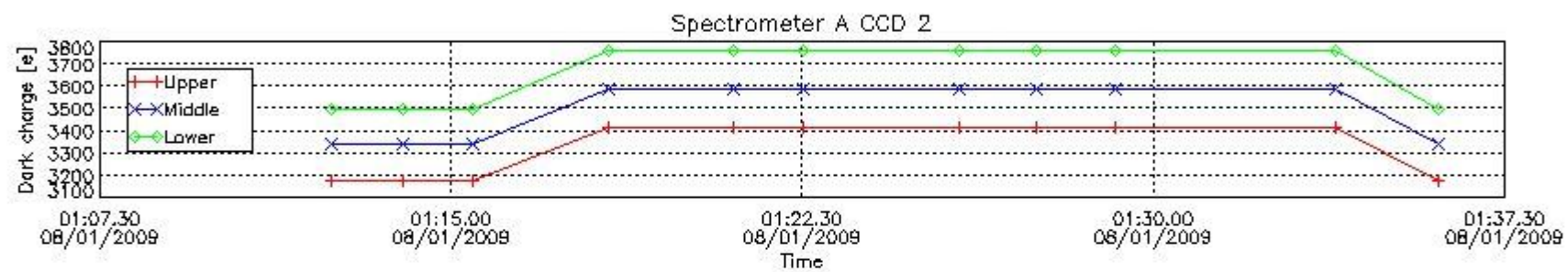
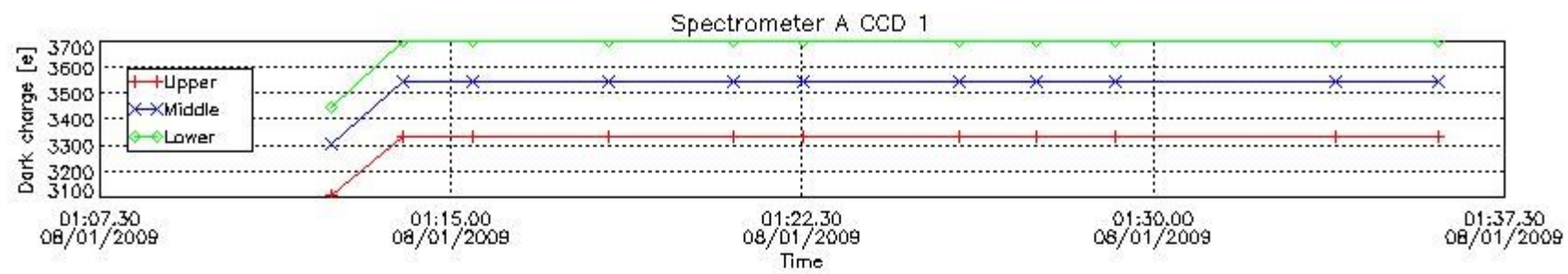
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



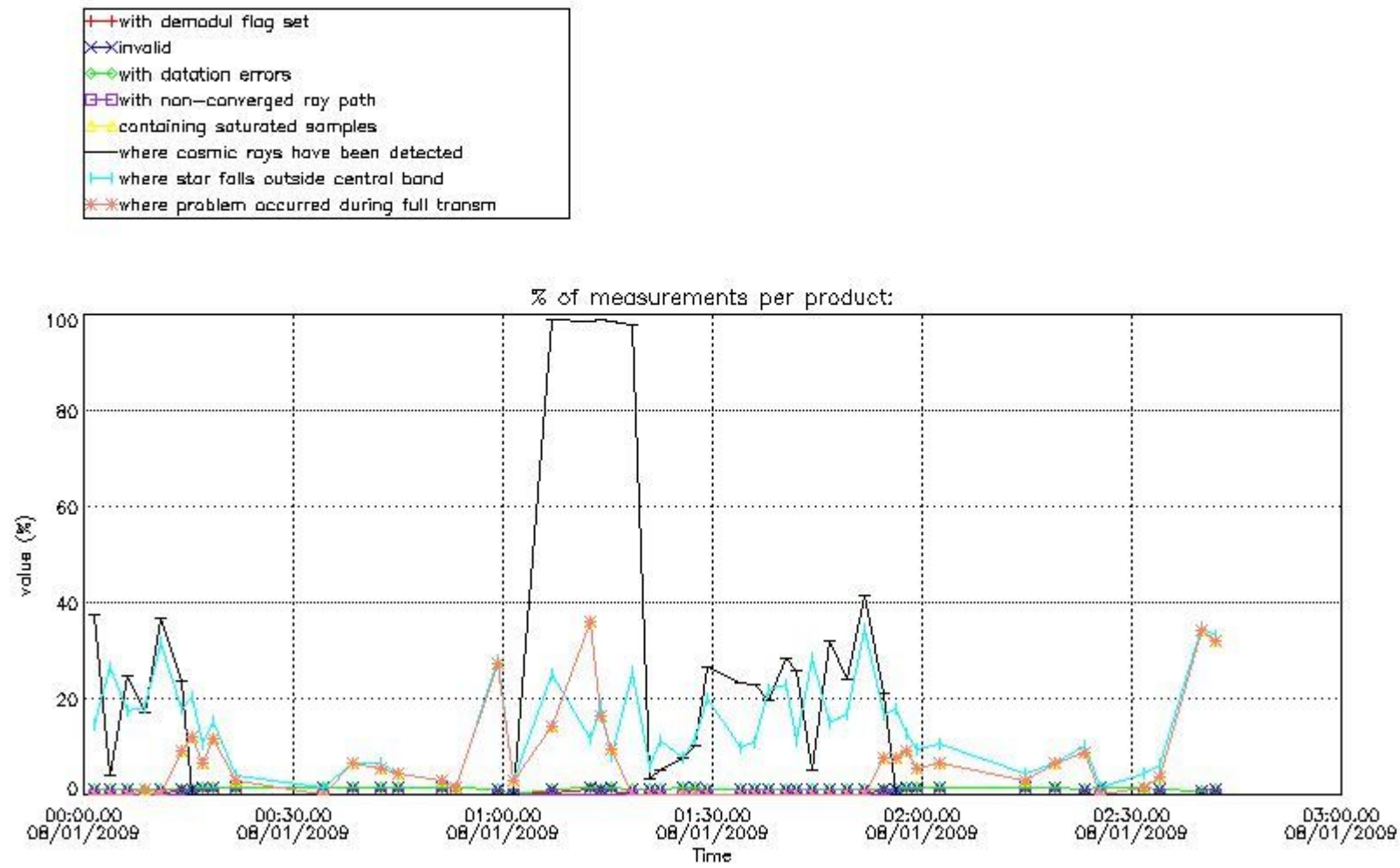
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

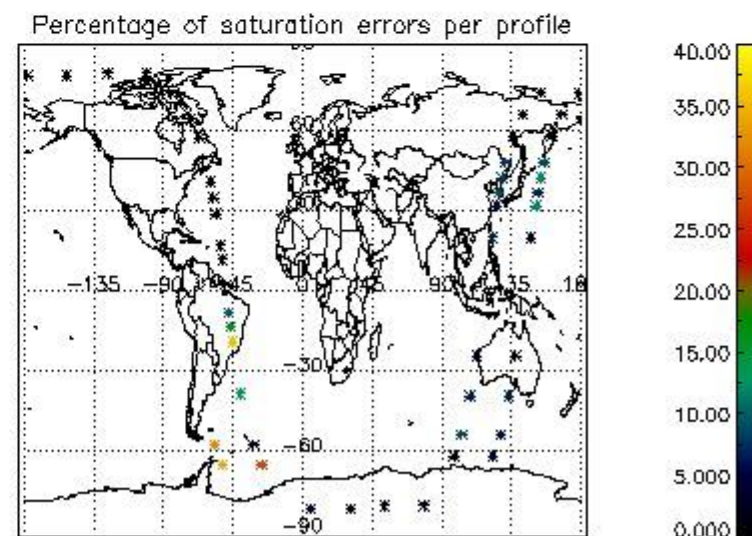
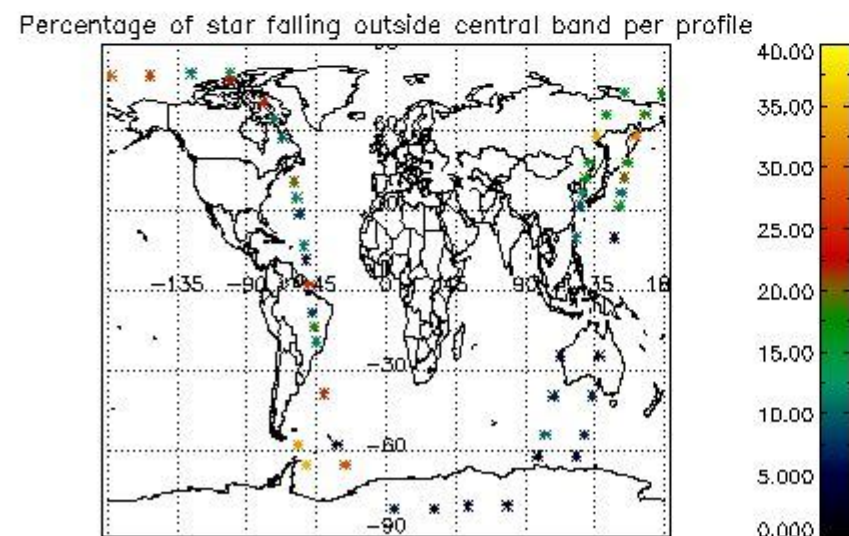
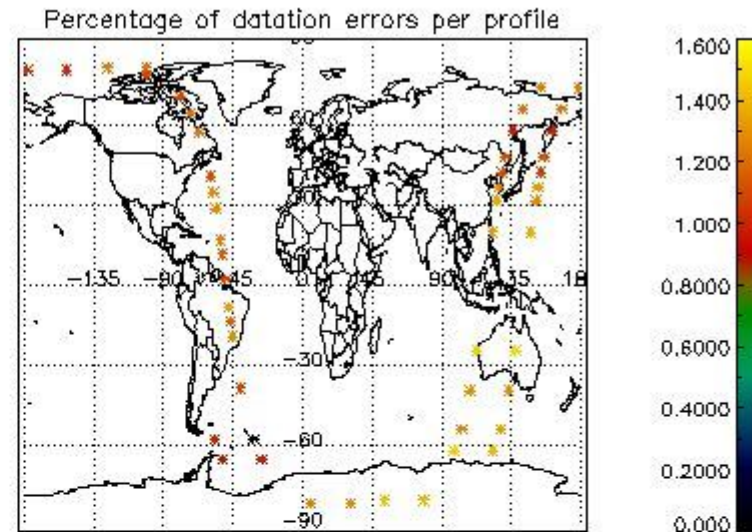
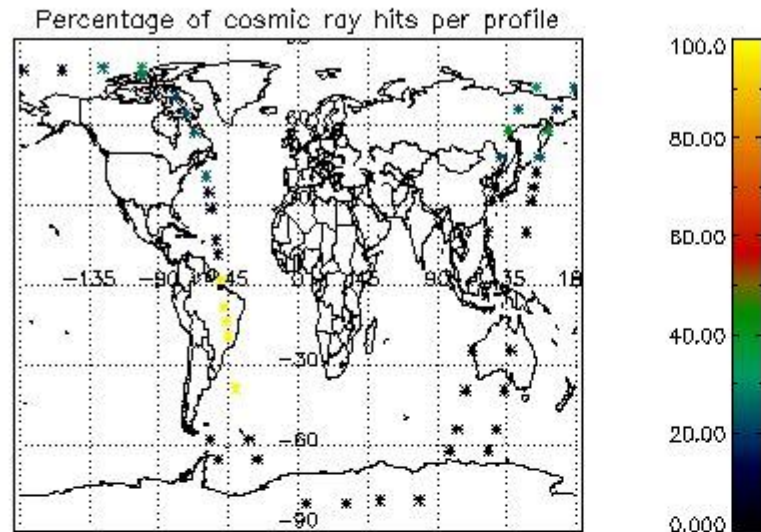
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.0000 %
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)



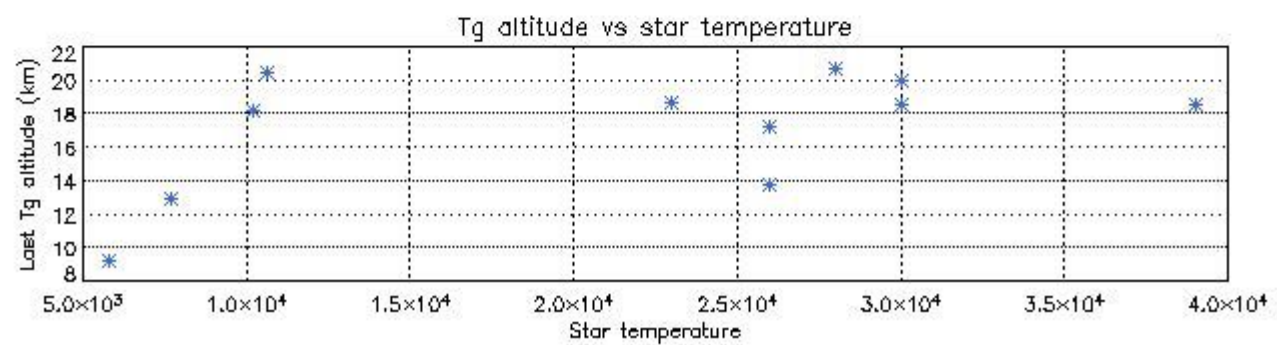
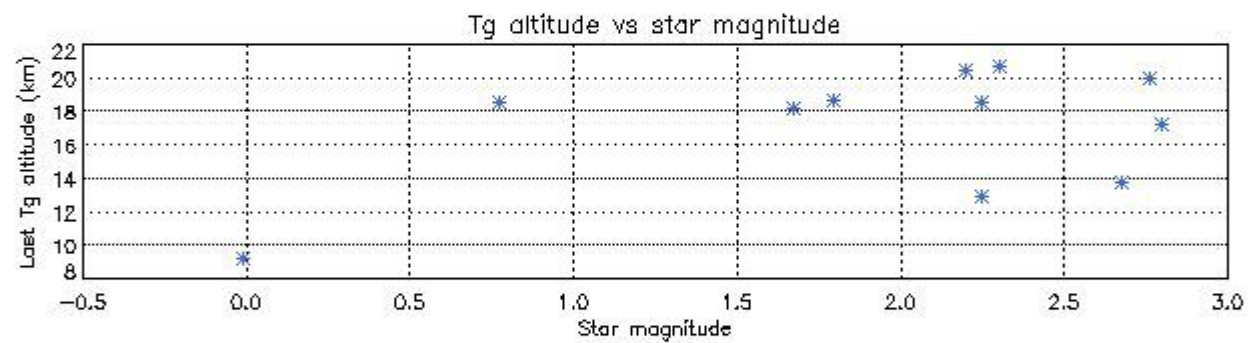
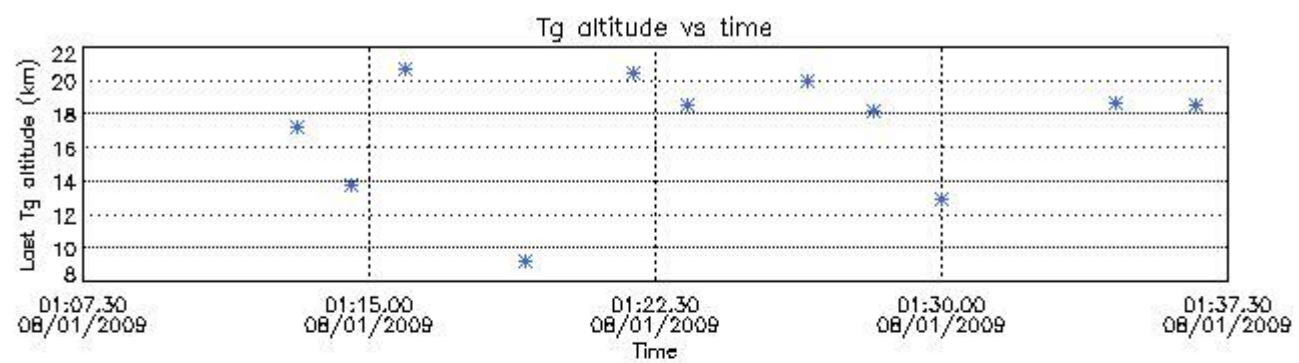
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.091	18.176	NaN
St. deviation:	3.6493	6.0763	NaN
Maximum:	20.727	25.849	NaN
Minimum:	9.1614	4.1537	NaN
Number of data:	11.000	24.000	NaN

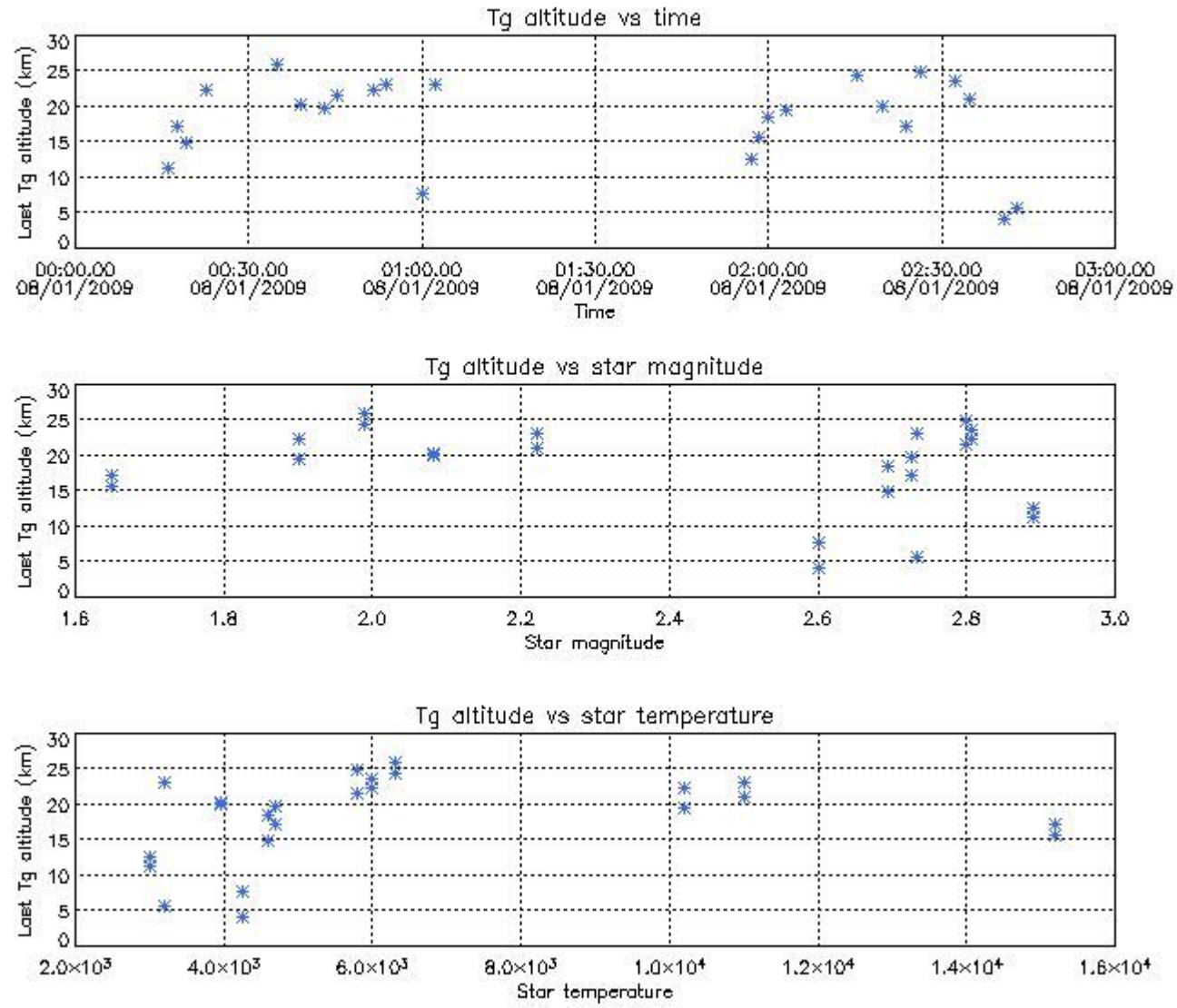
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

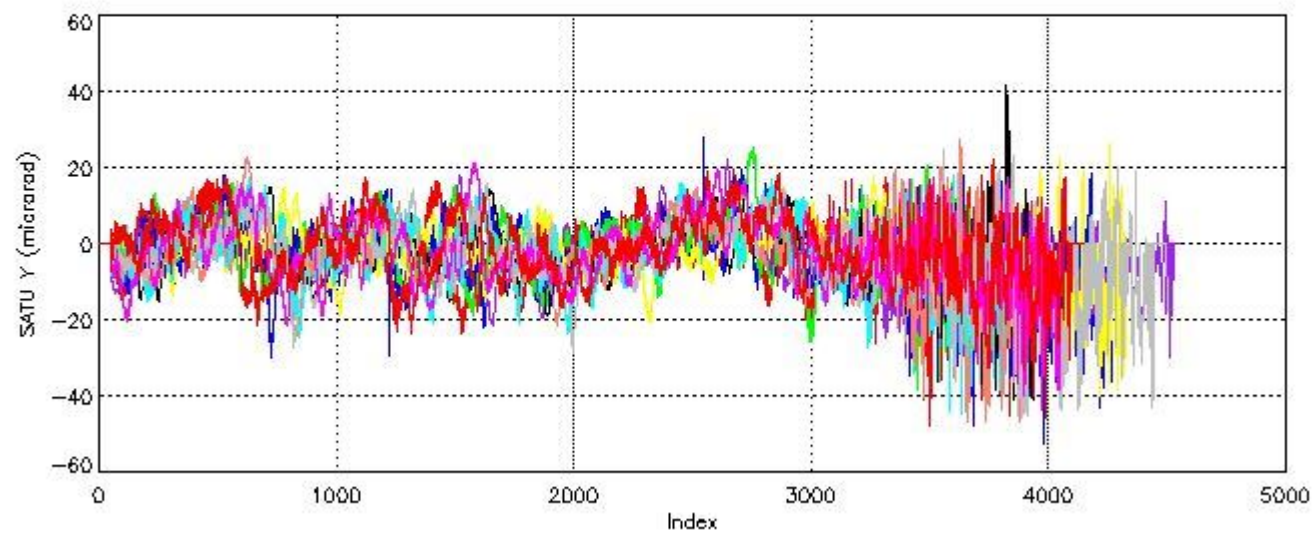
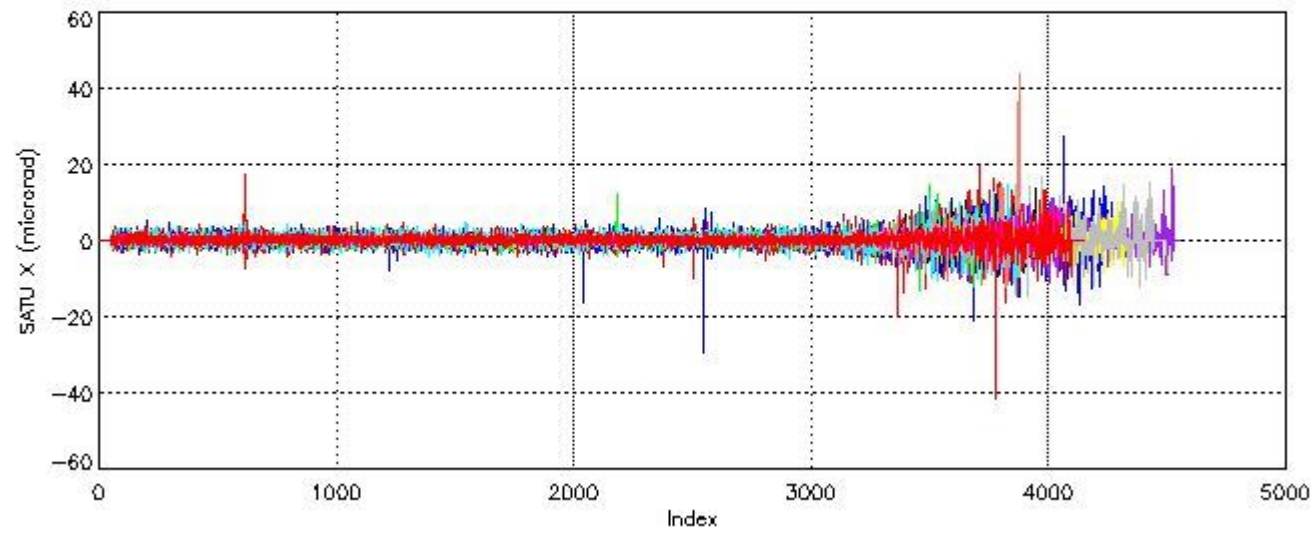


7. Star Acquisition and Tracking Unit (SATU)

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:	0.15676	-0.86862	0.041605	-0.98807
St. deviation:	0.83964	7.1702	0.65172	6.4444
Maximum:	17.400	22.600	3.7000	22.500
Minimum:	-7.5000	-29.800	-3.5000	-24.400

Number of data:	10150.	10150.	21200.	21200.
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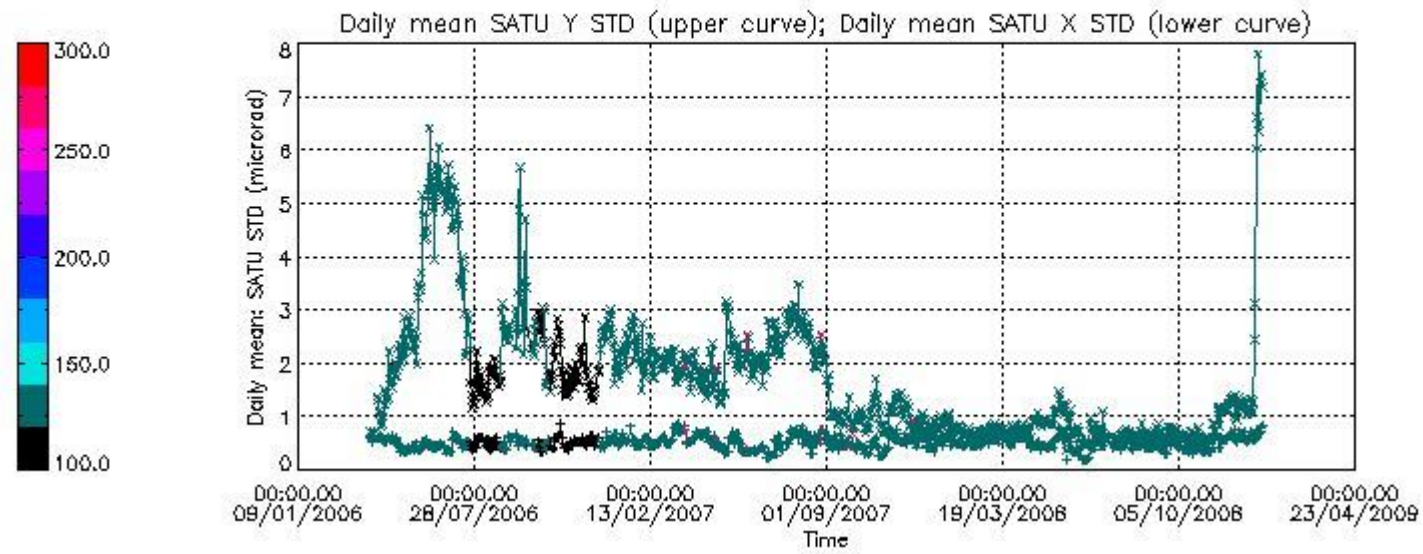
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

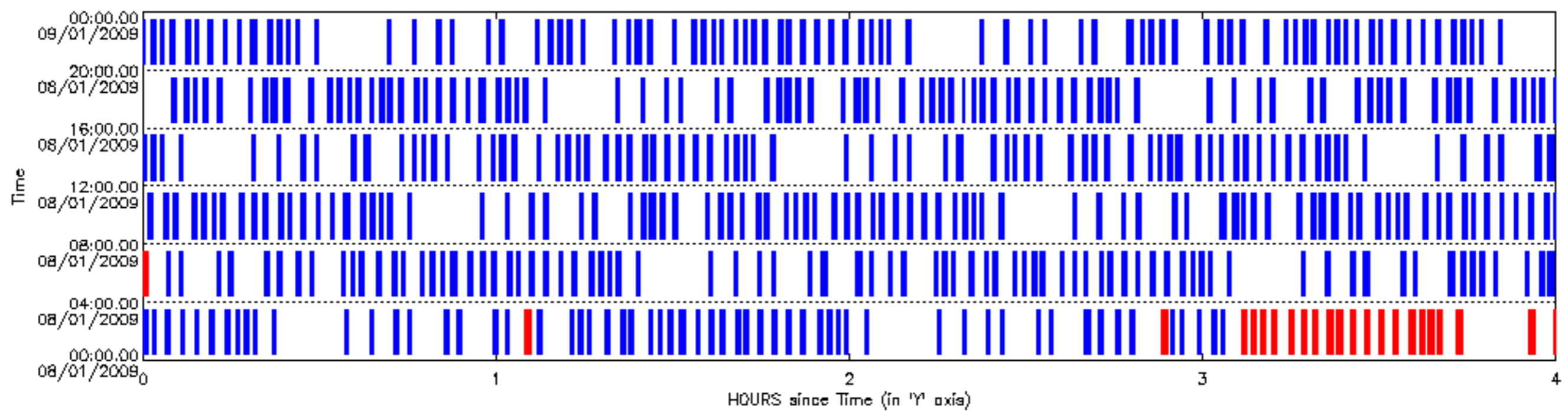
Lower curve: STD of SATU X axis

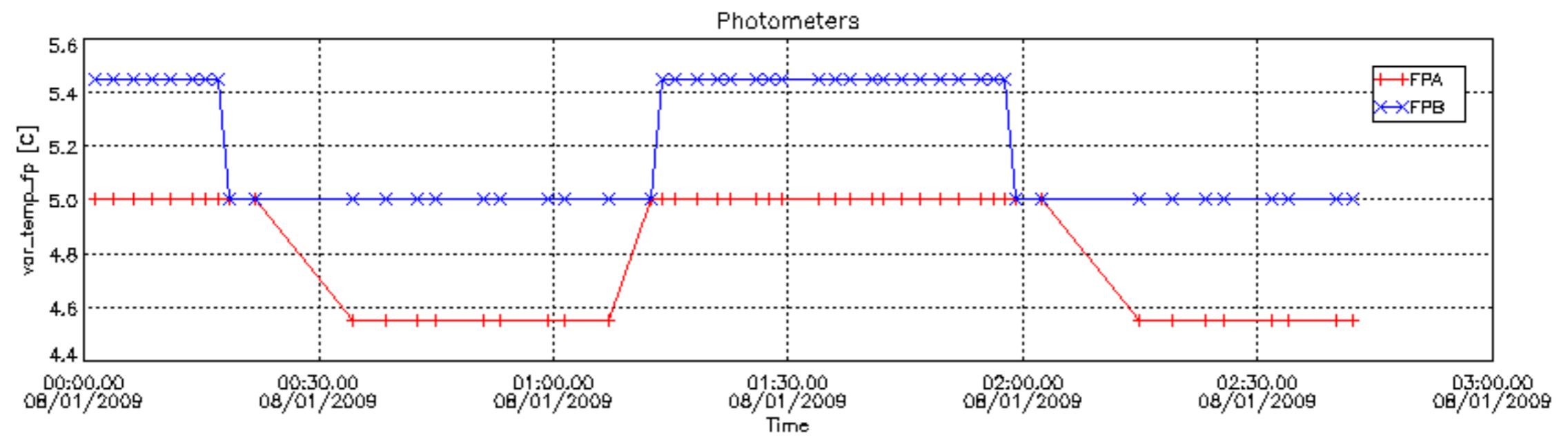
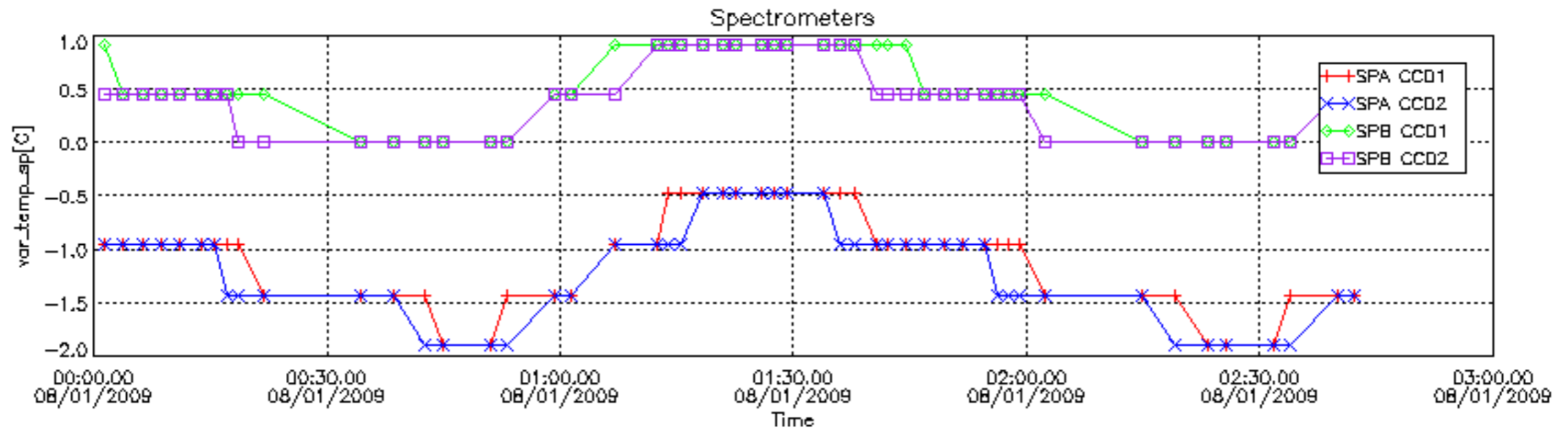


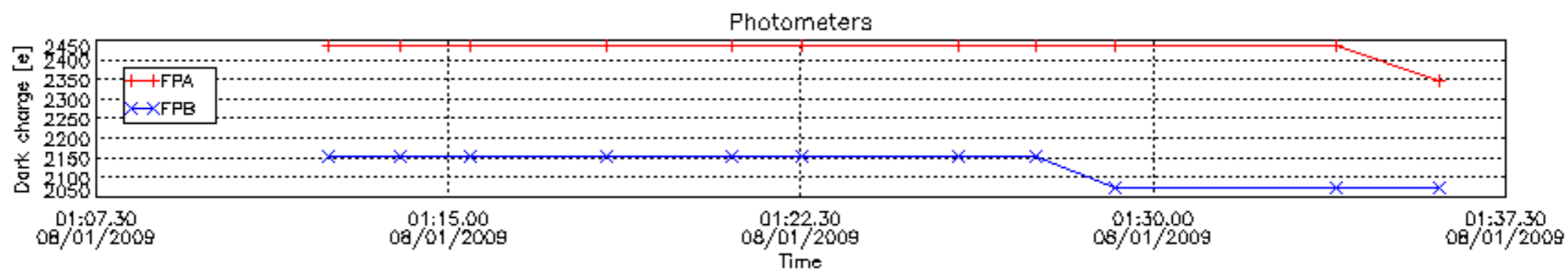
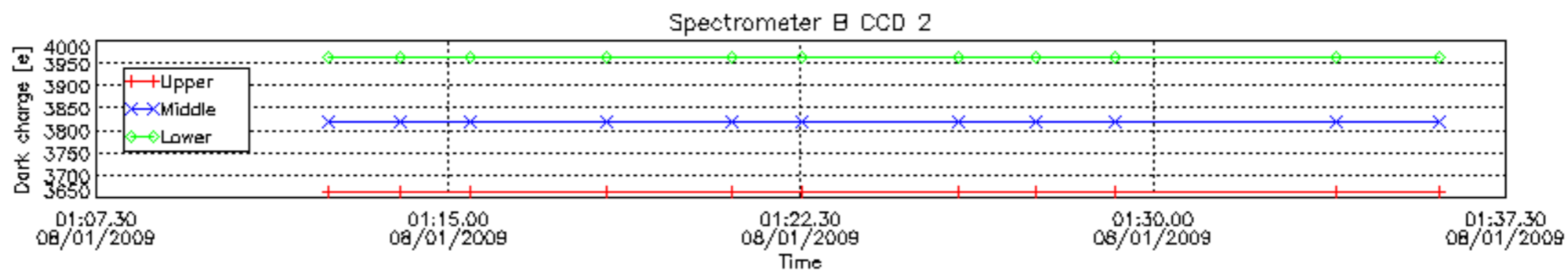
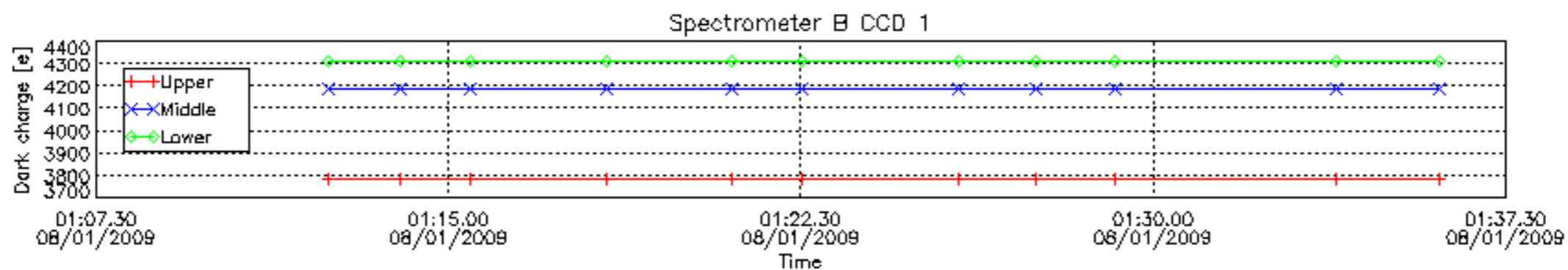
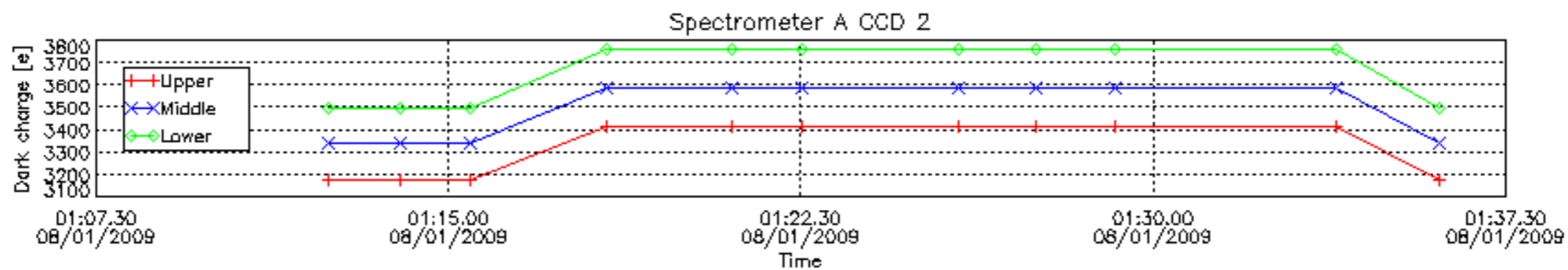
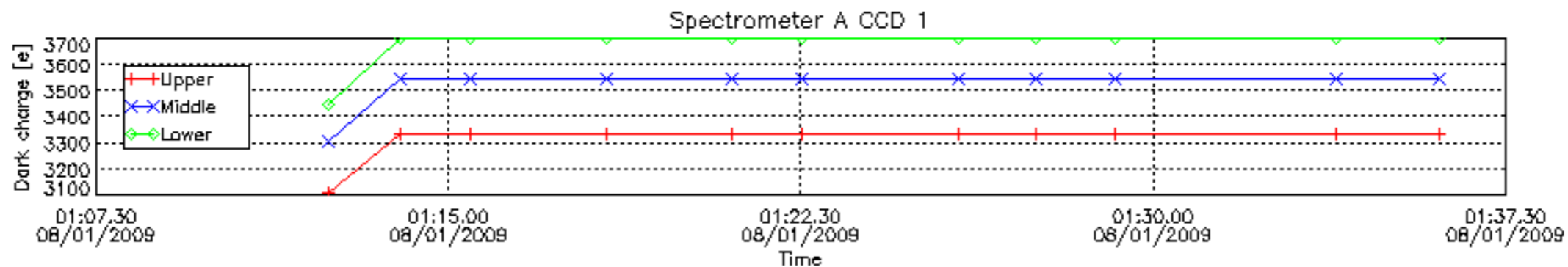
8. Auxiliary Data Files used for the production reported in section 2.4

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.

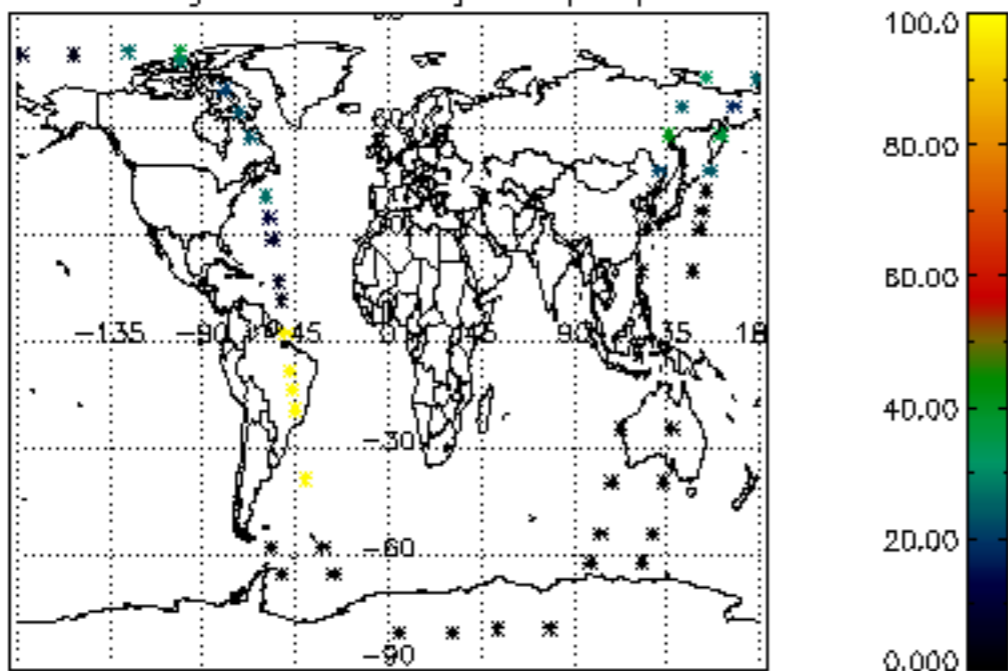
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	08-JAN-2009 00:01:27
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20081229_162214_20081227_000000_20100101_000000	1	08-JAN-2009 00:01:27
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-JAN-2009 00:01:27
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-JAN-2009 00:01:27
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-JAN-2009 00:01:27
ECMWF_FILE	AUX_ECF_AXNECM20090107_064111_20090107_210000_20090108_090000	1	08-JAN-2009 00:01:27
OPTIONAL_ECMWF_FILE	MISSING	1	08-JAN-2009 00:01:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090107_214038_000057382075_00229_35854_7116.N1	1	08-JAN-2009 00:01:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090107_232135_000057382075_00230_35855_7117.N1	19	08-JAN-2009 01:06:58



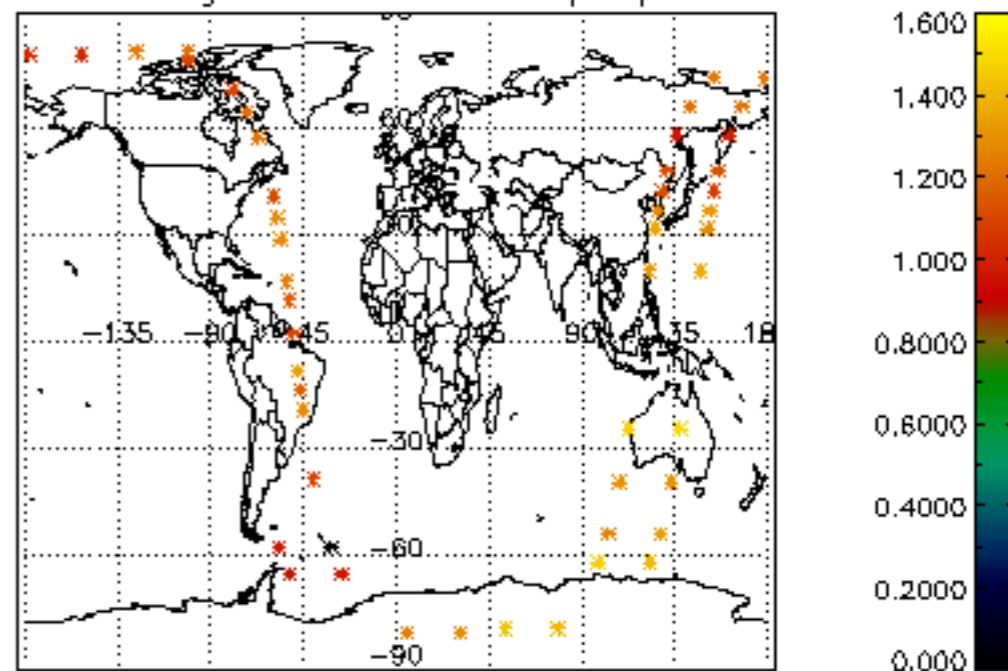




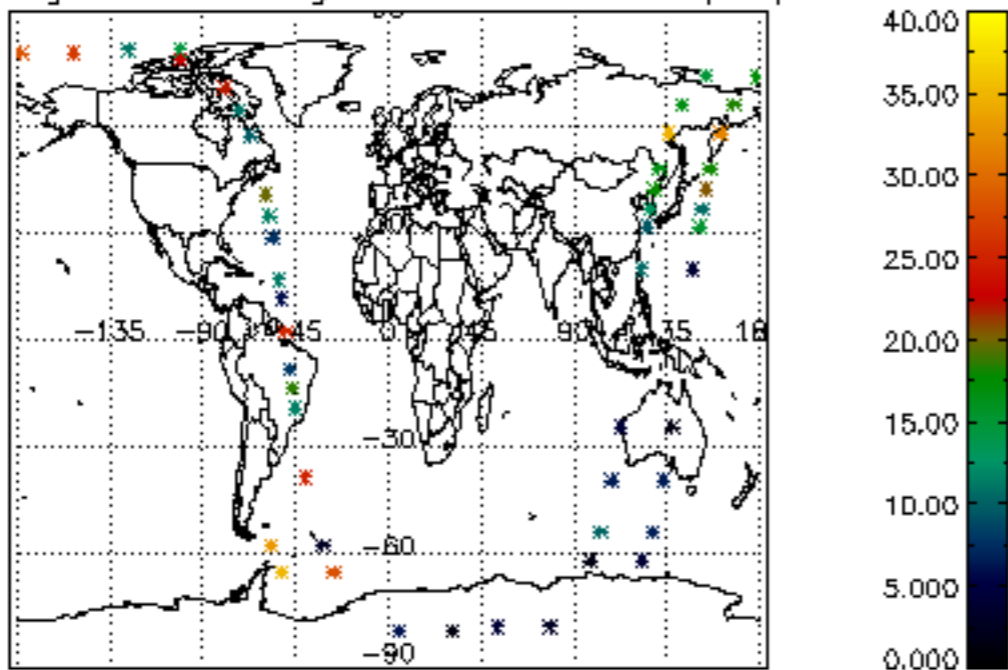
Percentage of cosmic ray hits per profile



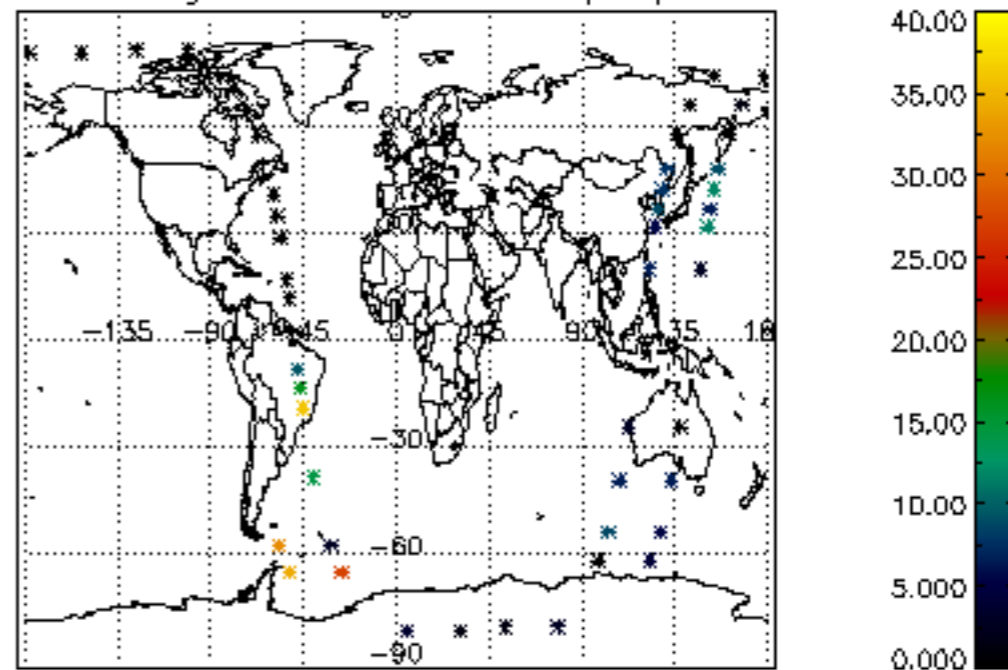
Percentage of datation errors per profile



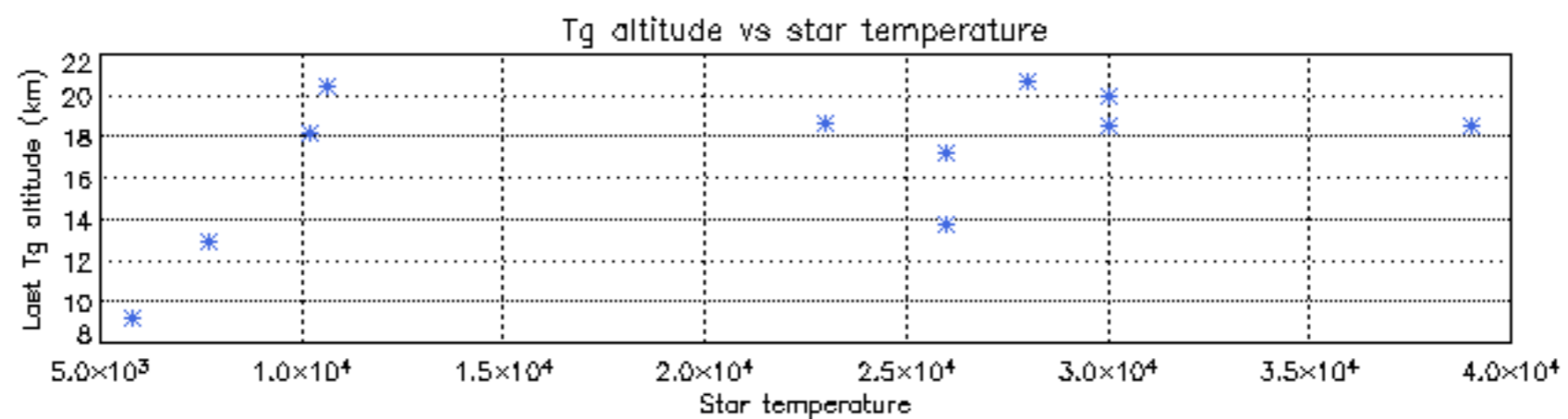
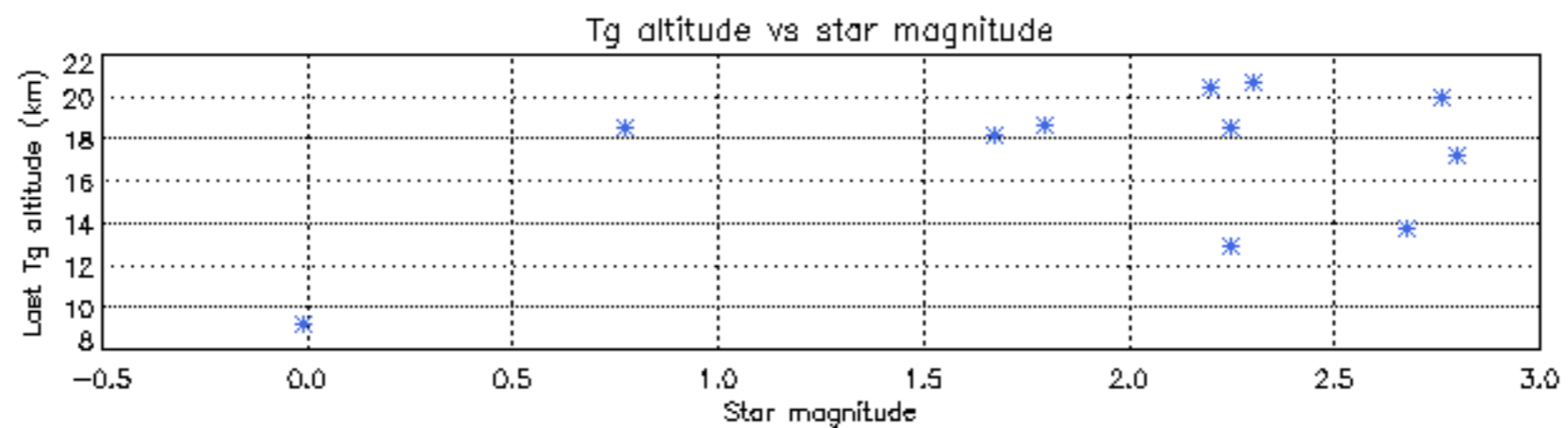
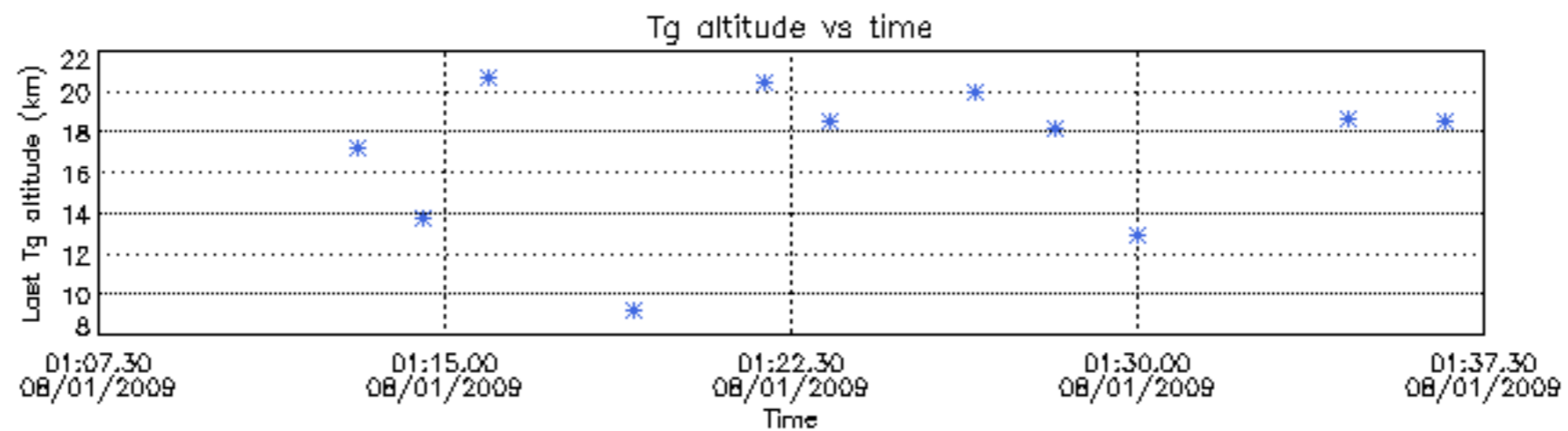
Percentage of star falling outside central band per profile



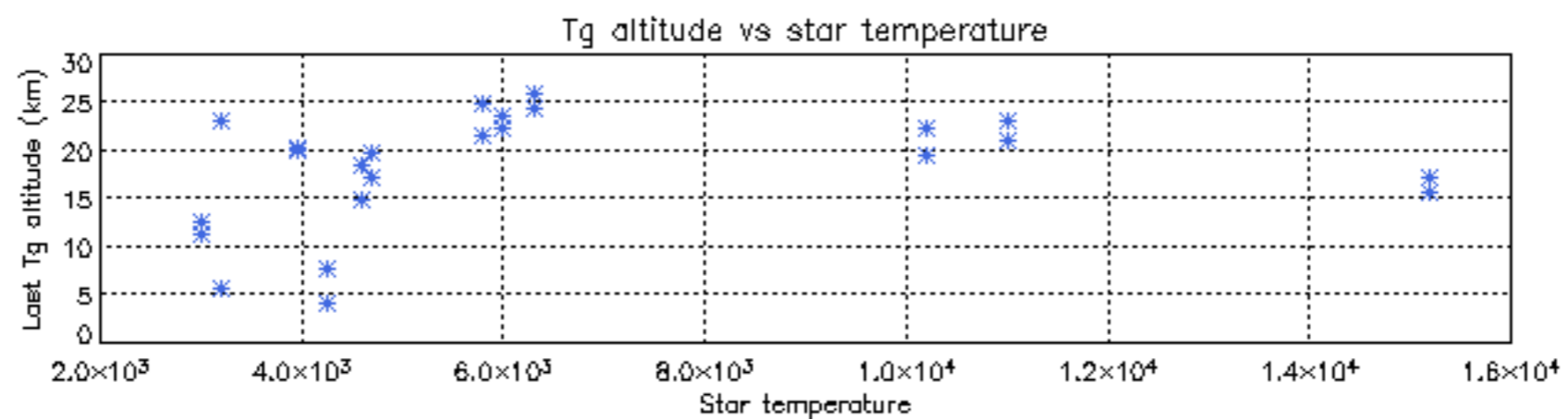
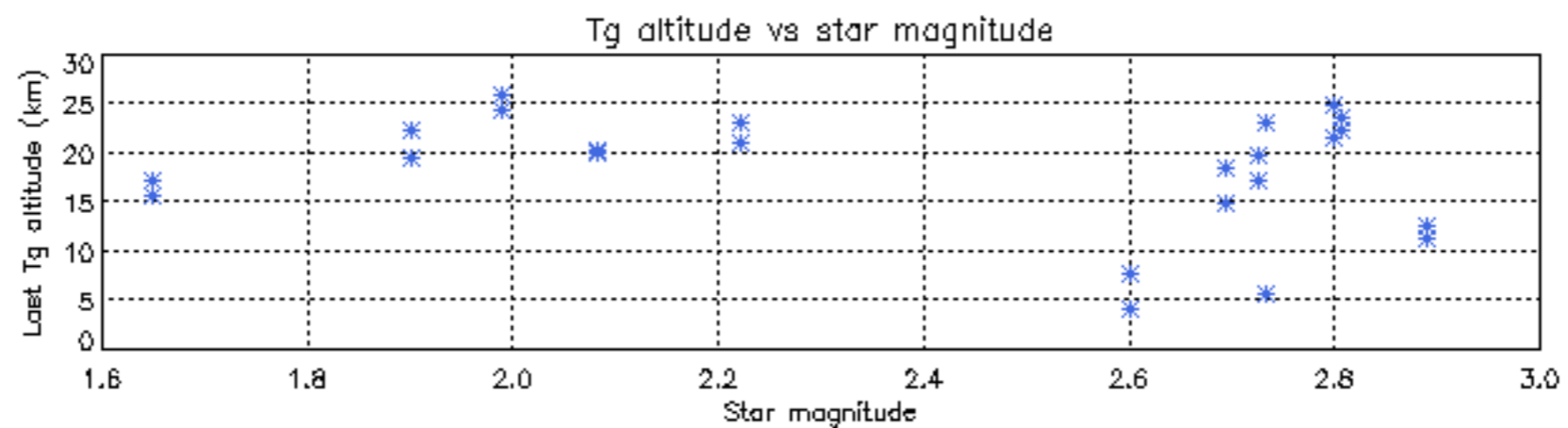
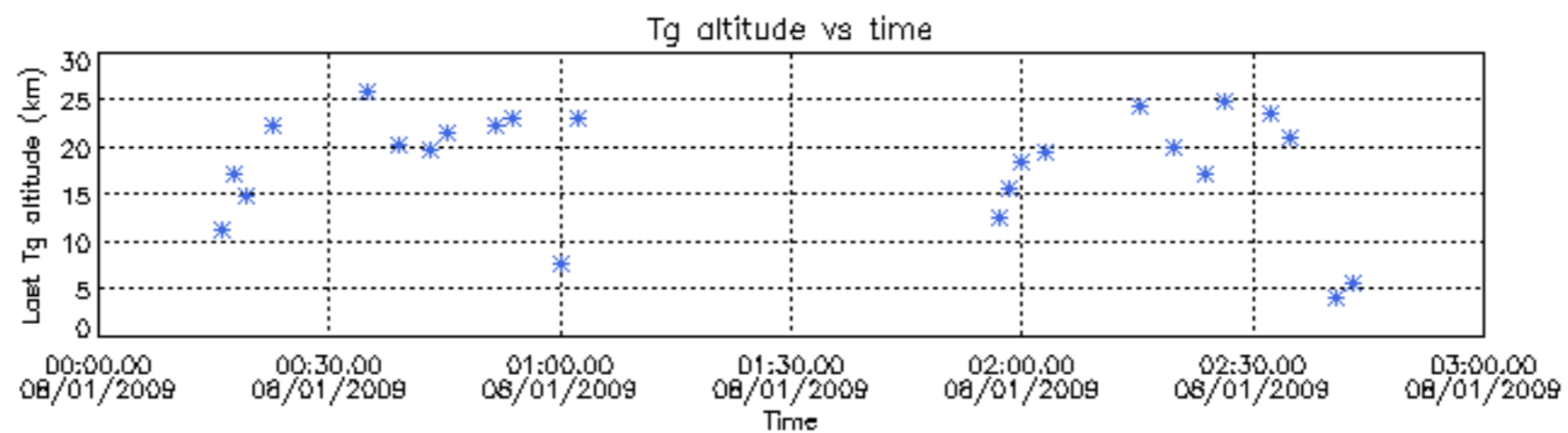
Percentage of saturation errors per profile

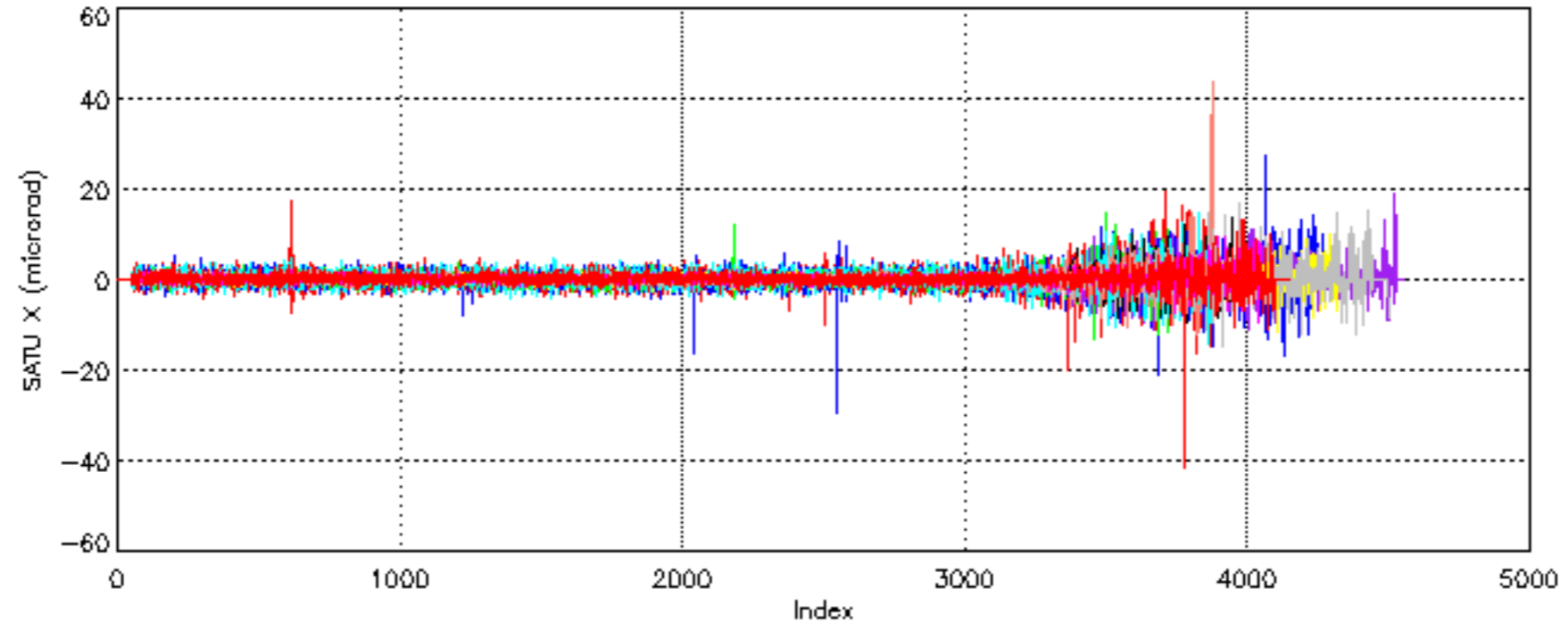


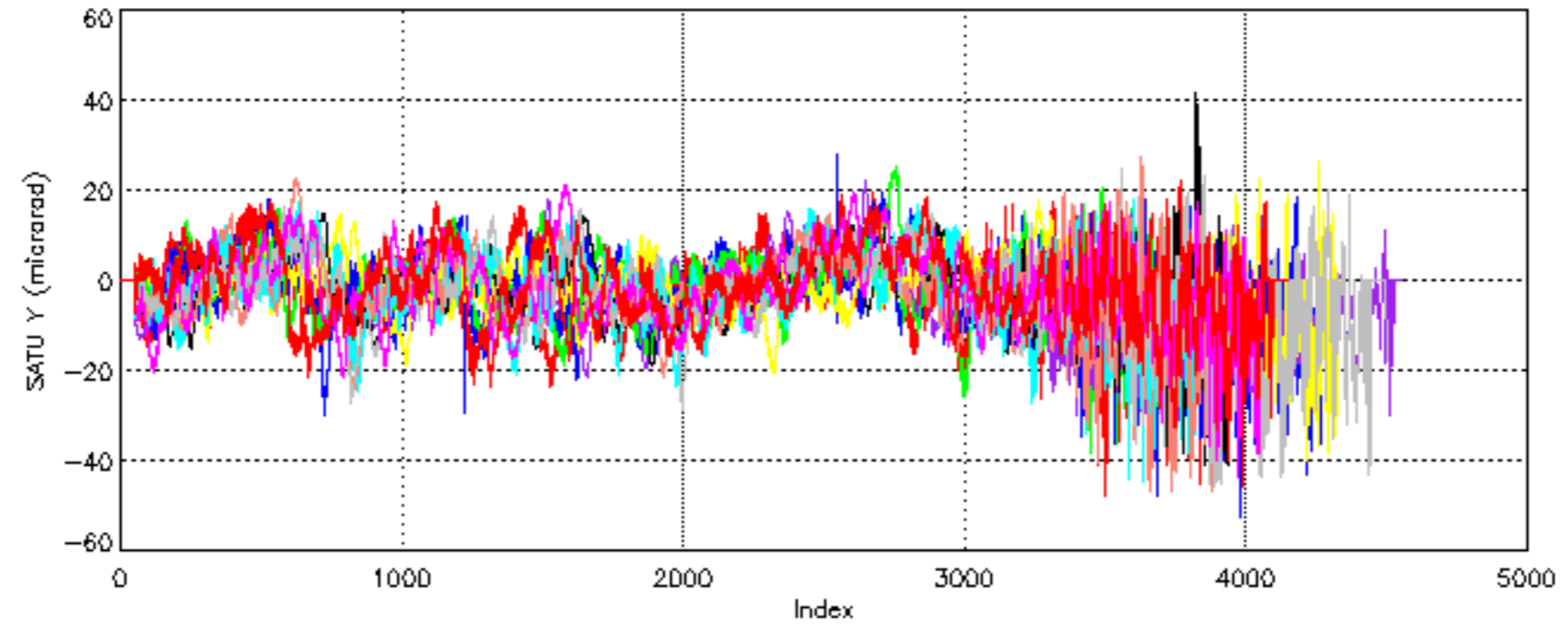
Tangent altitude at which the star is lost

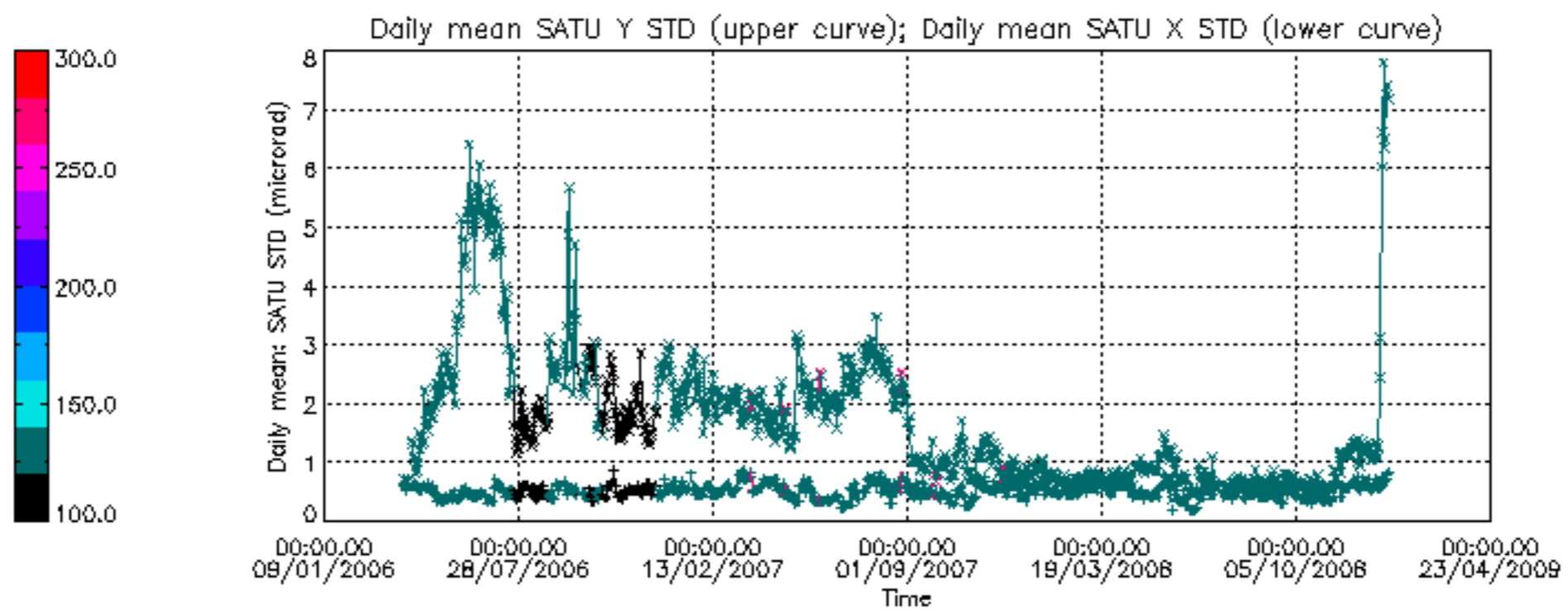


Tangent altitude at which the star is lost









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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
 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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 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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 6; -679.6; 01-JAN-2009 03:07:11; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;35757
 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
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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
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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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 4; -1144.0; 01-JAN-2009 04:40:02; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;35758
 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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 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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20; 1582.6; 01-JAN-2009 05:25:29; Dark ; 50.5; 1; 9Alp CMa ; -1.44; 11000;occ; 101; 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
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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
6; 1583.8; 01-JAN-2009 20:30:53; Dark ; 51.5; 1; 9Alp CMa ; -1.44; 11000;occ; 103; 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
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12; 2472.8; 01-JAN-2009 20:45:42; Bright; 52.0; 114; 3Iot Aur ; 2.69; 4600;occ; 104; 0;35768
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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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7; 225.1; 01-JAN-2009 21:48:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35769
8; 438.2; 01-JAN-2009 21:52:24; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0;35769
9; 553.4; 01-JAN-2009 21:54:19; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35769
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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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 33; 5041.3; 03-JAN-2009 23:46:29; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;35798
 34; 5216.4; 03-JAN-2009 23:49:24; Bright; 56.5; 104; 27Bet Lib ; 2.61; 13100;occ; 113; 0;35798

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8; 2475.0; 04-JAN-2009 07:26:42; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;35803
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11; 3423.5; 04-JAN-2009 07:42:30; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35803
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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
22; 5779.5; 04-JAN-2009 08:21:47; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;35803
23; 5868.0; 04-JAN-2009 08:23:15; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;35803
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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
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31; 6783.5; 04-JAN-2009 08:38:31; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 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
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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 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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 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
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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
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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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 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
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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
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 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
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 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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33; 7110.7; 04-JAN-2009 13:45:45; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 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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 32; 4565.2; 08-JAN-2009 00:53:16; Bright; 39.0; 67; 5Alp CrB ; 2.22; 11000;occ; 78; 0;35856
 33; 4925.5; 08-JAN-2009 00:59:16; Bright; 51.5; 102; 24Alp Ser ; 2.60; 4250;occ; 103; 0;35856
 34; 5058.8; 08-JAN-2009 01:01:30; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;35856

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 33; 7401.6; 07-JAN-2009 15:36:57; Dark ; 33.5; 23; 21Eps CMA ; 1.50; 26000;occ; 67; 0;35850

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 27; 5894.6; 07-JAN-2009 20:13:38; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;35853
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 11; 923.8; 08-JAN-2009 23:20:58; Dark ; 33.0; 65; Lam Vel ; 2.20; 4400;occ; 66; 0;35870
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 14; 1211.6; 08-JAN-2009 23:25:46; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;35870
 15; 1369.8; 08-JAN-2009 23:28:24; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;35870
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 22; 2300.3; 08-JAN-2009 23:43:54; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;35870
 23; 2395.6; 08-JAN-2009 23:45:30; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35870
 24; 2482.1; 08-JAN-2009 23:46:56; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;35870
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 27; 3676.4; 09-JAN-2009 00:06:50; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;35870
 28; 3924.3; 09-JAN-2009 00:10:58; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;35870
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 32; 4930.7; 09-JAN-2009 00:27:45; Bright; 57.0; 102; 24Alp Ser ; 2.60; 4250;occ; 114; 0;35870
 33; 5063.6; 09-JAN-2009 00:29:58; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;35870
 34; 5152.3; 09-JAN-2009 00:31:26; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;35870
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 25; 1456.7; 08-JAN-2009 08:24:27; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0;35861
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 28; 6621.4; 08-JAN-2009 09:50:32; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35861
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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
17;	4071.5;	11-JAN-2009	17:36:46;	Bright;		34.0;	130;	23Bet Dra	;	2.80;	5800;occ;	68;	0;	35909
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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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 28; 4961.4; 13-JAN-2009 23:30:46; Bright; 61.0; 102; 24Alp Ser ; 2.60; 4250;occ; 122; 0;35941
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 15; 228.6; 24-JAN-2009 08:01:05; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36090
 16; 412.2; 24-JAN-2009 08:04:09; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;36090
 17; 504.8; 24-JAN-2009 08:05:41; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;36090
 18; 655.5; 24-JAN-2009 08:08:12; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;36090
 19; 786.0; 24-JAN-2009 08:10:23; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;36090
 20; 894.4; 24-JAN-2009 08:12:11; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;36090
 21; 1050.9; 24-JAN-2009 08:14:47; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;36090
 22; 1177.2; 24-JAN-2009 08:16:54; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;36090
 23; 1267.3; 24-JAN-2009 08:18:24; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36090
 24; 1415.1; 24-JAN-2009 08:20:52; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;36090
 25; 1498.1; 24-JAN-2009 08:22:15; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;36090
 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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 5; 2416.4; 24-JAN-2009 08:37:33; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36090
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 13; 4672.0; 24-JAN-2009 09:15:09; Bright; 43.0; 127; 27Bet Her ; 2.78; 4700;occ; 86; 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
 16; 5236.7; 24-JAN-2009 09:24:33; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36090

17; 5506.8; 24-JAN-2009 09:29:03; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;36090
 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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 20; 5962.6; 24-JAN-2009 09:36:39; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;36090
 21; 6071.6; 24-JAN-2009 09:38:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090
 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
 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
 28; 6931.2; 24-JAN-2009 09:52:48; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;36090
 29; 7087.4; 24-JAN-2009 09:55:24; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;36090
 30; 7213.8; 24-JAN-2009 09:57:30; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;36090
 31; 7302.6; 24-JAN-2009 09:58:59; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;36090
 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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 4; 2294.5; 24-JAN-2009 10:16:07; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;36091
 5; 2416.1; 24-JAN-2009 10:18:09; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36091
 6; 2548.2; 24-JAN-2009 10:20:21; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36091
 7; 2676.8; 24-JAN-2009 10:22:29; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36091
 8; 3426.5; 24-JAN-2009 10:34:59; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;36091
 9; 3637.7; 24-JAN-2009 10:38:30; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36091
 10; 3911.2; 24-JAN-2009 10:43:04; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;36091
 11; 4085.3; 24-JAN-2009 10:45:58; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;36091
 12; 4472.2; 24-JAN-2009 10:52:25; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;36091
 13; 4672.4; 24-JAN-2009 10:55:45; Bright; 44.0; 127; 27Bet Her ; 2.78; 4700;occ; 88; 0;36091
 14; 4769.5; 24-JAN-2009 10:57:22; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;36091
 15; 4896.4; 24-JAN-2009 10:59:29; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36091
 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
 18; 5593.6; 24-JAN-2009 11:11:06; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;36091
 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
 29; 7087.2; 24-JAN-2009 11:36:00; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;36091
 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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 3; 1996.2; 24-JAN-2009 11:51:44; Dark ; 47.0; 8; 10Alp CMI ; 0.40; 6500;occ; 94; 0;36092
 4; 2188.3; 24-JAN-2009 11:54:57; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;36092
 5; 2295.1; 24-JAN-2009 11:56:43; Bright; 37.5; 151; 13Mu Gem ; 2.89; 3000;occ; 75; 0;36092
 6; 2416.2; 24-JAN-2009 11:58:44; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36092
 7; 2548.5; 24-JAN-2009 12:00:57; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36092
 8; 2677.0; 24-JAN-2009 12:03:05; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;36092
 9; 3426.4; 24-JAN-2009 12:15:35; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36092
 10; 3637.8; 24-JAN-2009 12:19:06; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;36092
 11; 3911.2; 24-JAN-2009 12:23:40; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;36092
 12; 4085.3; 24-JAN-2009 12:26:34; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;36092
 13; 4472.3; 24-JAN-2009 12:33:01; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;36092
 14; 4672.9; 24-JAN-2009 12:36:21; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36092
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 18; 5508.1; 24-JAN-2009 12:50:16; Dark ; 45.5; 16; 21Alp Sco ; 1.02; 3000;occ; 91; 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
 26; 6543.1; 24-JAN-2009 13:07:31; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36092
 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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 29; 6931.4; 24-JAN-2009 13:14:00; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 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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 3; 1628.7; 24-JAN-2009 13:26:13; Dark ; 44.5; 1; 9Alp CMA ;-1.44; 11000;occ; 89; 0;36093
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 5; 2188.4; 24-JAN-2009 13:35:33; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;36093
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 16; 4770.1; 24-JAN-2009 14:18:34; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;36093
 17; 4896.5; 24-JAN-2009 14:20:41; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;36093
 18; 5238.0; 24-JAN-2009 14:26:22; Dark ; 45.0; 98; 13Zet Oph ; 2.57; 30000;occ; 90; 0;36093
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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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 3; -188.4; 25-JAN-2009 00:40:07; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36099
 4; -65.9; 25-JAN-2009 00:42:10; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36099
 5; 41.6; 25-JAN-2009 00:43:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36100
 6; 143.6; 25-JAN-2009 00:45:39; Dark ; 49.5; 4; Alp1Cen ;-0.01; 5800;occ; 99; 0;36100
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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
 9; 512.9; 25-JAN-2009 00:51:49; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 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
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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