

GOMOS Daily Report 28-OCT-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	29OCT2009 04:31:46
Data source version	GOMOS/5.00L03
Start time of products	28OCT2009 20:25:01
Stop time of products	28OCT2009 22:00:52
Store outputs in DB	Yes
Nb of level 1b prods	2
Nb of prods with errors	0

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

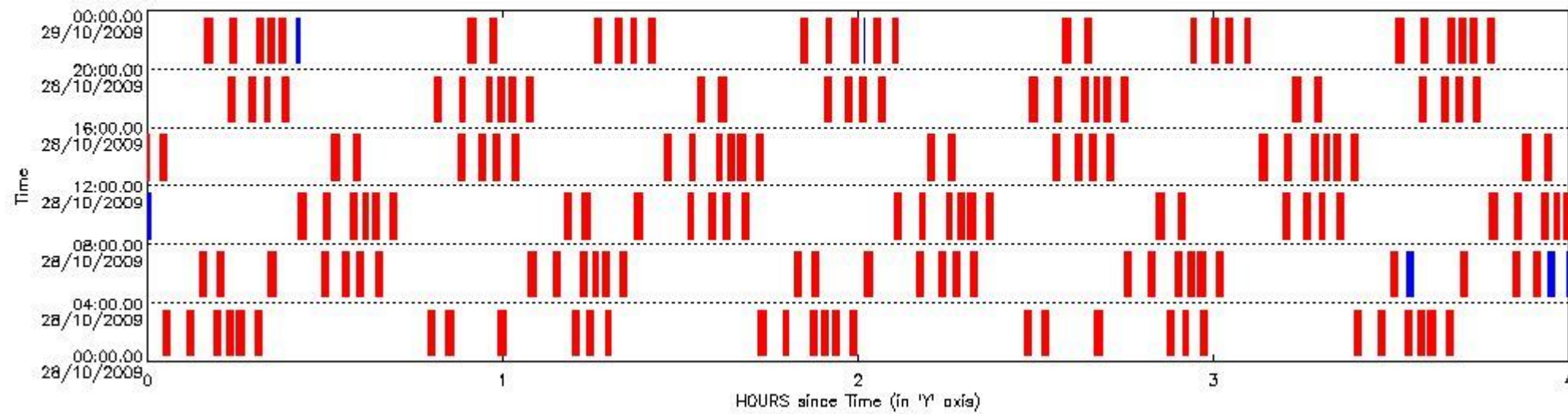
2.1 Level 0 products arrived in PCF (see template [here](#))

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
28-OCT-2009 00:02:26	92AlpCet	94	40050
28-OCT-2009 00:06:40	6BetAri	105	40050
28-OCT-2009 00:11:14	4BetTri	173	40050
28-OCT-2009 00:13:15	57Gam1And	73	40050
28-OCT-2009 00:14:58	26BetPer	79	40050
28-OCT-2009 00:18:01	23GamPer	160	40050
28-OCT-2009 00:47:23	41Gam1Leo	51	40050
28-OCT-2009 00:50:21	32AlpLeo	22	40050
28-OCT-2009 00:59:07	30AlpHya	48	40050
28-OCT-2009 01:11:38	Gam2Vel	34	40051
28-OCT-2009 01:14:06	DSA1055	0	40051
28-OCT-2009 01:17:11	AlpCar	2	40051
28-OCT-2009 01:43:02	92AlpCet	94	40051
28-OCT-2009 01:47:16	6BetAri	105	40051
28-OCT-2009 01:51:50	4BetTri	173	40051

28-OCT-2009 01:53:51	57Gam1And	73	40051
28-OCT-2009 01:55:33	26BetPer	79	40051
28-OCT-2009 01:58:36	23GamPer	160	40051
28-OCT-2009 02:28:00	41Gam1Leo	51	40051
28-OCT-2009 02:30:57	32AlpLeo	22	40051
28-OCT-2009 02:39:44	30AlpHya	48	40051
28-OCT-2009 02:52:14	Gam2Vel	34	40052
28-OCT-2009 02:54:43	DSA1055	0	40052
28-OCT-2009 02:57:48	AlpCar	2	40052
28-OCT-2009 03:23:38	92AlpCet	94	40052
28-OCT-2009 03:27:52	6BetAri	105	40052
28-OCT-2009 03:32:25	4BetTri	173	40052
28-OCT-2009 03:34:26	57Gam1And	73	40052
28-OCT-2009 03:36:09	26BetPer	79	40052
28-OCT-2009 03:39:12	23GamPer	160	40052
28-OCT-2009 04:08:36	41Gam1Leo	51	40052
28-OCT-2009 04:11:34	32AlpLeo	22	40052
28-OCT-2009 04:20:21	30AlpHya	48	40052
28-OCT-2009 04:29:18	LamVel	65	40052
28-OCT-2009 04:32:51	Gam2Vel	34	40053
28-OCT-2009 04:35:20	DSA1055	0	40053
28-OCT-2009 04:38:25	AlpCar	2	40053
28-OCT-2009 05:04:13	92AlpCet	94	40053
28-OCT-2009 05:08:27	6BetAri	105	40053
28-OCT-2009 05:13:01	4BetTri	173	40053
28-OCT-2009 05:15:02	57Gam1And	73	40053
28-OCT-2009 05:16:44	26BetPer	79	40053
28-OCT-2009 05:19:47	23GamPer	160	40053
28-OCT-2009 05:49:12	41Gam1Leo	51	40053
28-OCT-2009 05:52:10	32AlpLeo	22	40053
28-OCT-2009 06:00:58	30AlpHya	48	40053
28-OCT-2009 06:09:55	LamVel	65	40053
28-OCT-2009 06:13:28	Gam2Vel	34	40054
28-OCT-2009 06:15:57	DSA1055	0	40054
28-OCT-2009 06:19:02	AlpCar	2	40054
28-OCT-2009 06:44:49	92AlpCet	94	40054
28-OCT-2009 06:49:03	6BetAri	105	40054
28-OCT-2009 06:53:36	4BetTri	173	40054
28-OCT-2009 06:55:37	57Gam1And	73	40054
28-OCT-2009 06:57:19	26BetPer	79	40054
28-OCT-2009 07:00:22	23GamPer	160	40054
28-OCT-2009 07:29:48	41Gam1Leo	51	40054
28-OCT-2009 07:41:35	30AlpHya	48	40054
28-OCT-2009 07:50:32	LamVel	65	40054
28-OCT-2009 07:54:05	Gam2Vel	34	40055
28-OCT-2009 08:25:24	92AlpCet	94	40055
28-OCT-2009 08:29:39	6BetAri	105	40055
28-OCT-2009 08:34:12	4BetTri	173	40055
28-OCT-2009 08:36:13	57Gam1And	73	40055
28-OCT-2009 08:37:54	26BetPer	79	40055
28-OCT-2009 08:40:58	23GamPer	160	40055
28-OCT-2009 09:10:25	41Gam1Leo	51	40055
28-OCT-2009 09:13:23	32AlpLeo	22	40055
28-OCT-2009 09:22:12	30AlpHya	48	40055
28-OCT-2009 09:31:09	LamVel	65	40055
28-OCT-2009 09:34:42	Gam2Vel	34	40056
28-OCT-2009 09:37:10	DSA1055	0	40056
28-OCT-2009 09:40:15	AlpCar	2	40056
28-OCT-2009 10:06:00	92AlpCet	94	40056

28-OCT-2009 10:10:15	6BetAri	105	40056
28-OCT-2009 10:14:47	4BetTri	173	40056
28-OCT-2009 10:16:48	57Gam1And	73	40056
28-OCT-2009 10:18:29	26BetPer	79	40056
28-OCT-2009 10:21:33	23GamPer	160	40056
28-OCT-2009 10:50:21	17EpsLeo	166	40056
28-OCT-2009 10:54:00	32AlpLeo	22	40056
28-OCT-2009 11:11:45	LamVel	65	40056
28-OCT-2009 11:15:18	Gam2Vel	34	40057
28-OCT-2009 11:17:47	DSA1055	0	40057
28-OCT-2009 11:20:52	AlpCar	2	40057
28-OCT-2009 11:46:35	92AlpCet	94	40057
28-OCT-2009 11:50:50	6BetAri	105	40057
28-OCT-2009 11:55:23	4BetTri	173	40057
28-OCT-2009 11:57:24	57Gam1And	73	40057
28-OCT-2009 11:59:05	26BetPer	79	40057
28-OCT-2009 12:02:09	23GamPer	160	40057
28-OCT-2009 12:30:57	17EpsLeo	166	40057
28-OCT-2009 12:34:36	32AlpLeo	22	40057
28-OCT-2009 12:52:22	LamVel	65	40057
28-OCT-2009 12:55:55	Gam2Vel	34	40058
28-OCT-2009 12:58:24	DSA1055	0	40058
28-OCT-2009 13:01:29	AlpCar	2	40058
28-OCT-2009 13:27:11	92AlpCet	94	40058
28-OCT-2009 13:31:26	6BetAri	105	40058
28-OCT-2009 13:35:59	4BetTri	173	40058
28-OCT-2009 13:38:00	57Gam1And	73	40058
28-OCT-2009 13:39:40	26BetPer	79	40058
28-OCT-2009 13:42:44	23GamPer	160	40058
28-OCT-2009 14:11:33	17EpsLeo	166	40058
28-OCT-2009 14:15:13	32AlpLeo	22	40058
28-OCT-2009 14:32:59	LamVel	65	40058
28-OCT-2009 14:36:32	Gam2Vel	34	40059
28-OCT-2009 14:39:01	DSA1055	0	40059
28-OCT-2009 14:42:05	AlpCar	2	40059
28-OCT-2009 15:07:46	92AlpCet	94	40059
28-OCT-2009 15:12:02	6BetAri	105	40059
28-OCT-2009 15:16:34	4BetTri	173	40059
28-OCT-2009 15:18:35	57Gam1And	73	40059
28-OCT-2009 15:20:15	26BetPer	79	40059
28-OCT-2009 15:23:19	23GamPer	160	40059
28-OCT-2009 15:52:09	17EpsLeo	166	40059
28-OCT-2009 15:55:49	32AlpLeo	22	40059
28-OCT-2009 16:13:36	LamVel	65	40059
28-OCT-2009 16:17:09	Gam2Vel	34	40060
28-OCT-2009 16:19:38	DSA1055	0	40060
28-OCT-2009 16:22:42	AlpCar	2	40060
28-OCT-2009 16:48:22	92AlpCet	94	40060
28-OCT-2009 16:52:37	6BetAri	105	40060
28-OCT-2009 16:57:10	4BetTri	173	40060
28-OCT-2009 16:59:11	57Gam1And	73	40060
28-OCT-2009 17:00:50	26BetPer	79	40060
28-OCT-2009 17:03:55	23GamPer	160	40060
28-OCT-2009 17:32:46	17EpsLeo	166	40060
28-OCT-2009 17:36:26	32AlpLeo	22	40060
28-OCT-2009 17:54:12	LamVel	65	40060
28-OCT-2009 17:57:46	Gam2Vel	34	40061
28-OCT-2009 18:00:15	DSA1055	0	40061
28-OCT-2009 18:03:19	AlpCar	2	40061

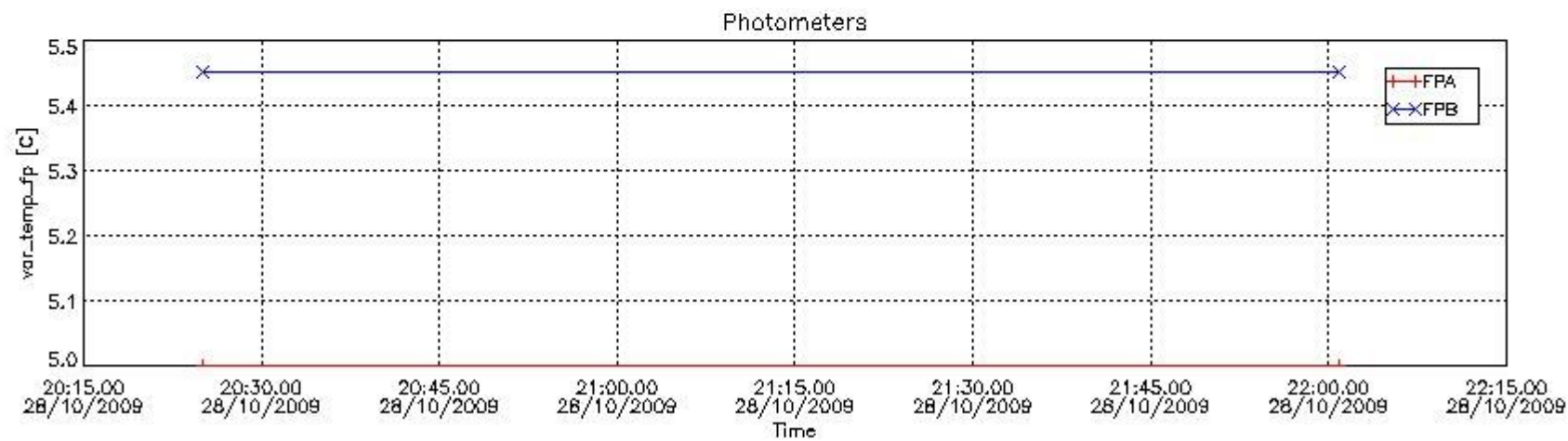
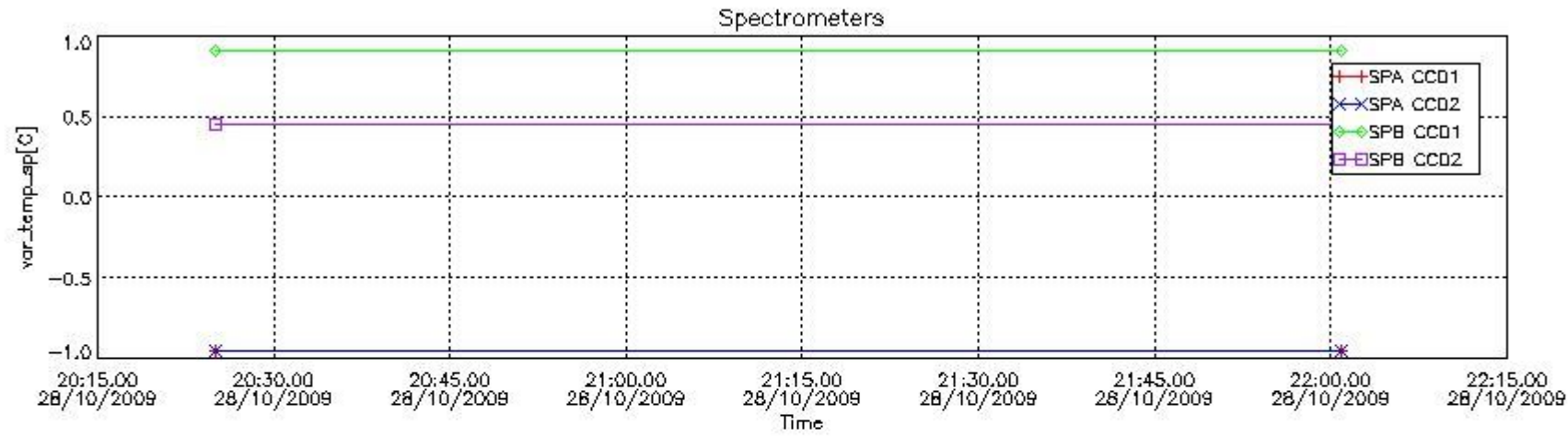
28-OCT-2009 18:28:57	92AlpCet	94	40061
28-OCT-2009 18:33:13	6BetAri	105	40061
28-OCT-2009 18:37:45	4BetTri	173	40061
28-OCT-2009 18:39:46	57Gam1And	73	40061
28-OCT-2009 18:41:25	26BetPer	79	40061
28-OCT-2009 18:44:30	23GamPer	160	40061
28-OCT-2009 19:13:22	17EpsLeo	166	40061
28-OCT-2009 19:17:02	32AlpLeo	22	40061
28-OCT-2009 19:34:49	LamVel	65	40061
28-OCT-2009 19:38:23	Gam2Vel	34	40062
28-OCT-2009 19:40:52	DSA1055	0	40062
28-OCT-2009 19:43:55	AlpCar	2	40062
28-OCT-2009 20:09:33	92AlpCet	94	40062
28-OCT-2009 20:13:49	6BetAri	105	40062
28-OCT-2009 20:18:21	4BetTri	173	40062
28-OCT-2009 20:20:22	57Gam1And	73	40062
28-OCT-2009 20:22:01	26BetPer	79	40062
28-OCT-2009 20:53:58	17EpsLeo	166	40062
28-OCT-2009 20:57:39	32AlpLeo	22	40062
28-OCT-2009 21:15:26	LamVel	65	40062
28-OCT-2009 21:18:59	Gam2Vel	34	40063
28-OCT-2009 21:21:29	DSA1055	0	40063
28-OCT-2009 21:24:32	AlpCar	2	40063
28-OCT-2009 21:50:08	92AlpCet	94	40063
28-OCT-2009 21:54:24	6BetAri	105	40063
28-OCT-2009 21:58:56	4BetTri	173	40063
28-OCT-2009 22:02:36	26BetPer	79	40063
28-OCT-2009 22:05:41	23GamPer	160	40063
28-OCT-2009 22:34:35	17EpsLeo	166	40063
28-OCT-2009 22:38:15	32AlpLeo	22	40063
28-OCT-2009 22:56:03	LamVel	65	40063
28-OCT-2009 22:59:36	Gam2Vel	34	40064
28-OCT-2009 23:02:05	DSA1055	0	40064
28-OCT-2009 23:05:09	AlpCar	2	40064
28-OCT-2009 23:30:44	92AlpCet	94	40064
28-OCT-2009 23:35:00	6BetAri	105	40064
28-OCT-2009 23:39:32	4BetTri	173	40064
28-OCT-2009 23:41:33	57Gam1And	73	40064
28-OCT-2009 23:43:11	26BetPer	79	40064
28-OCT-2009 23:46:16	23GamPer	160	40064

2.4 Summary of processed GOM_TRA_1P products

!Warning: No products without errors in DARK limb contitions found

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091028_202501_000000422083_00429_40062_2100.N1	28-OCT-2009 20:25:01	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	40062	No
2	GOM_TRA_1PNPDE20091028_220052_000000132083_00430_40063_2106.N1	28-OCT-2009 22:00:52	Twl_and_stray	13.000	73	57Gam1And	2.2600	13100.	26	40063	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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20091028_202501_000000422083_00429_40062_2100.N1	DC map used
GOM_TRA_1PNPDE20091028_220052_000000132083_00430_40063_2106.N1	DC map used

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

No products without errors in DARK limb contitions found. No plot performed.

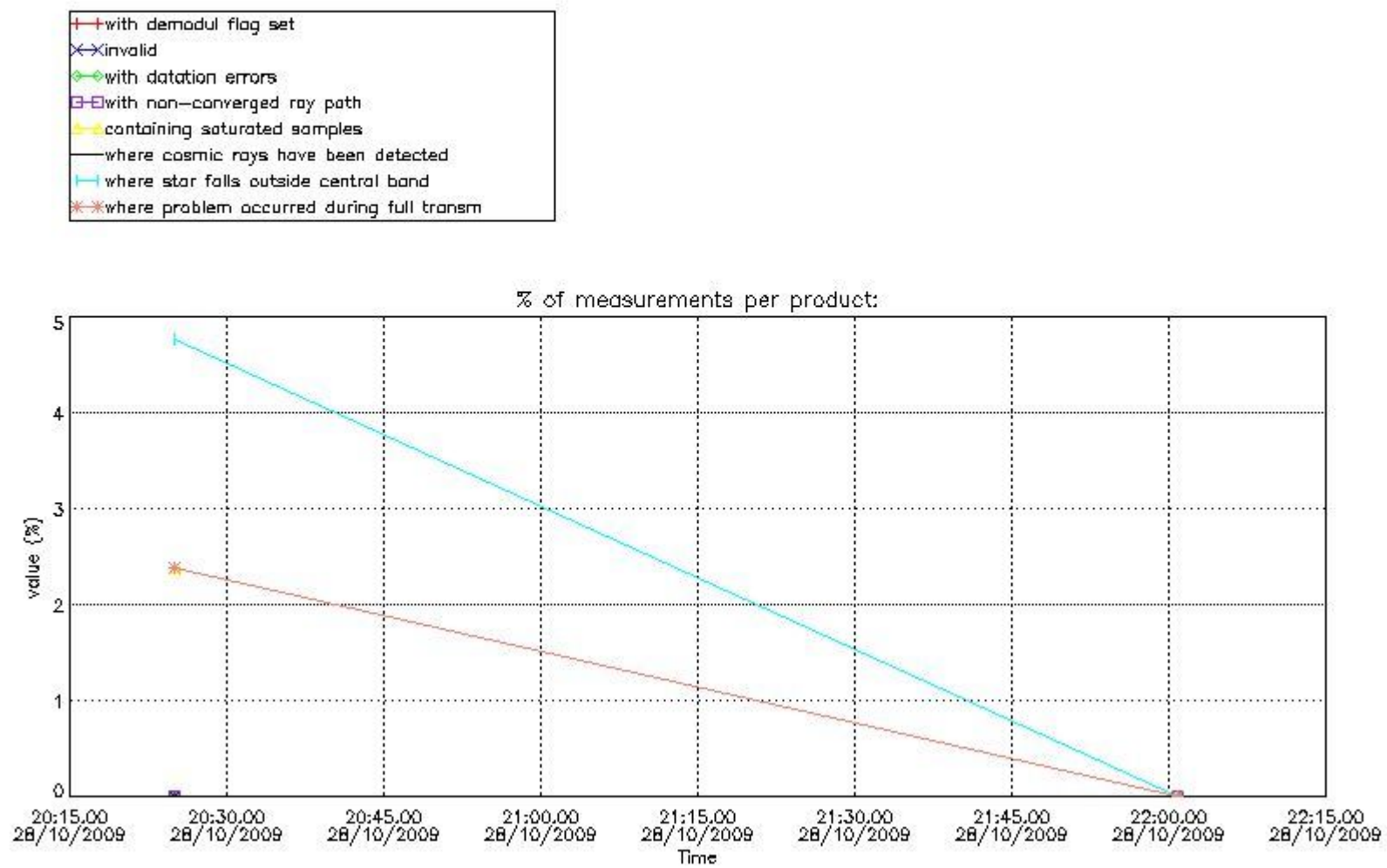
5. Demodulation flag and quality information monitoring

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.

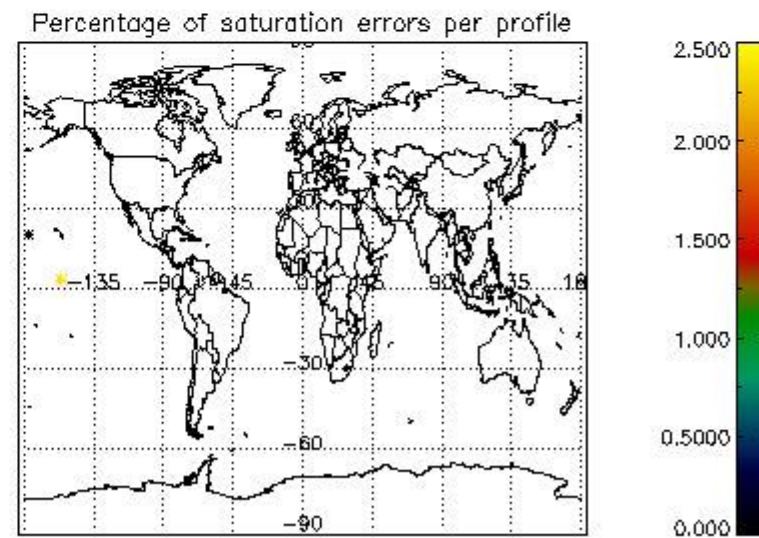
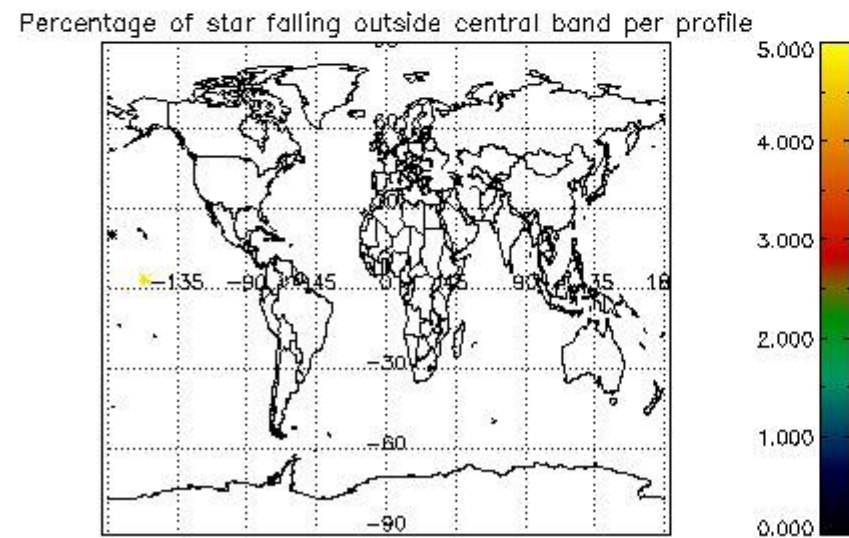
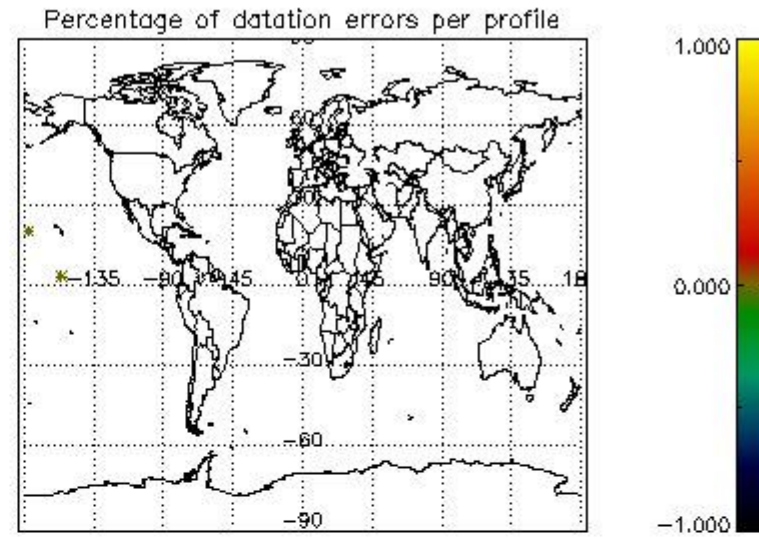
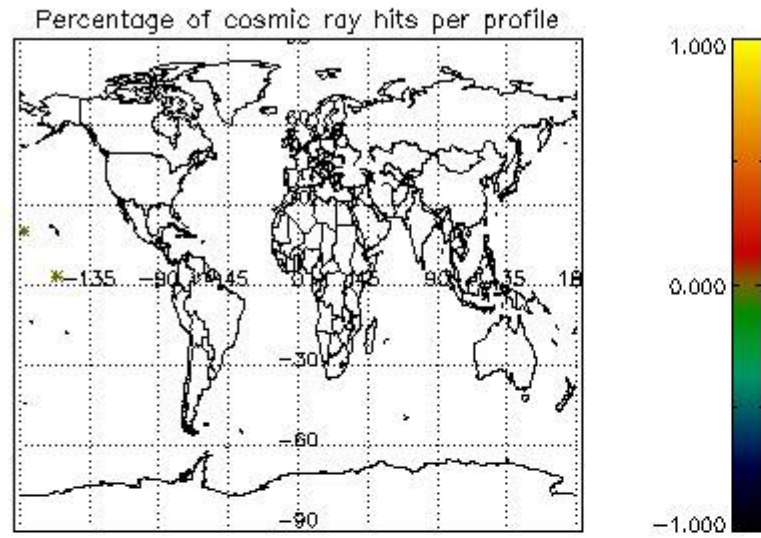
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	0.00000 %
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)



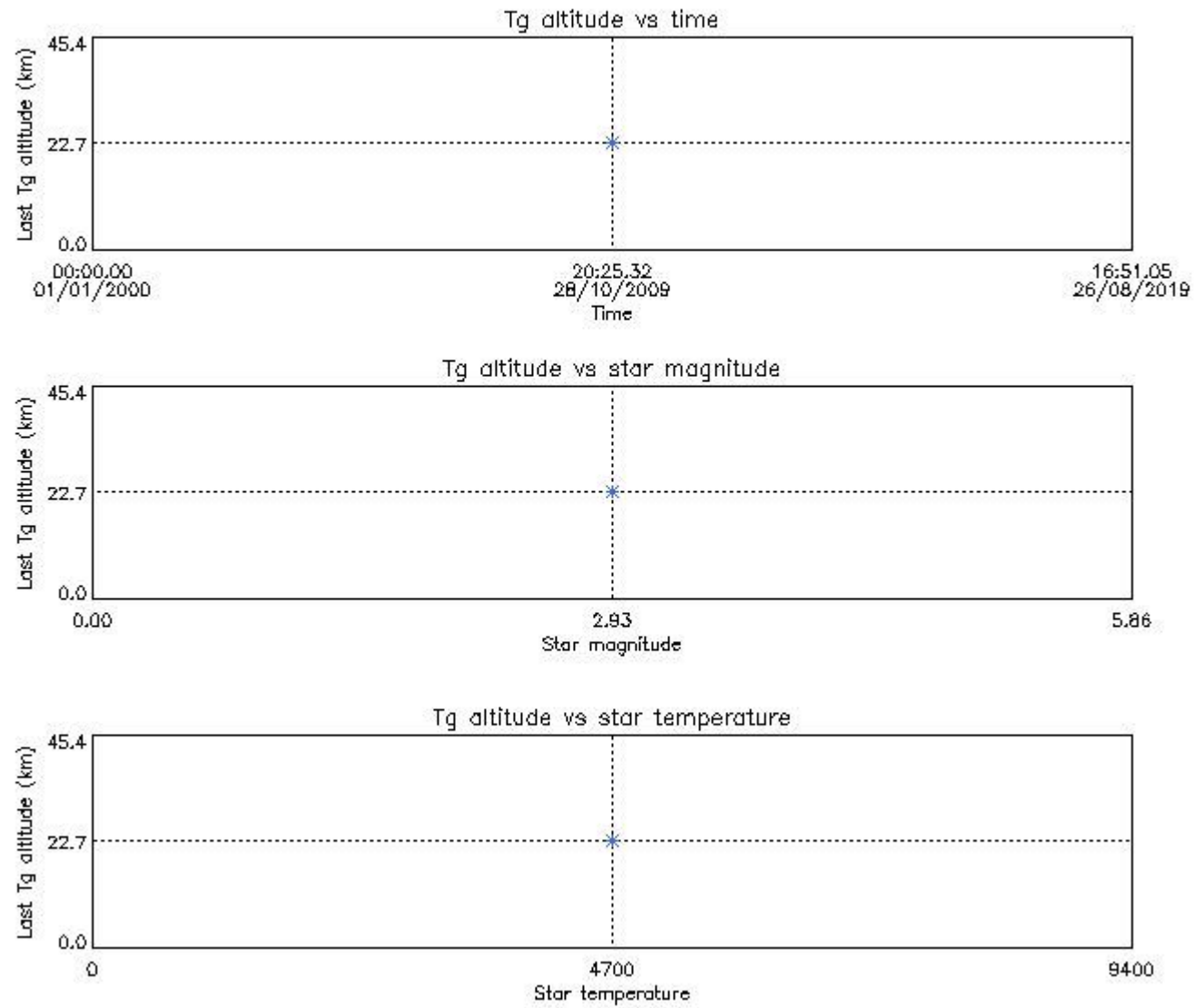
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	NaN	22.680	NaN
St. deviation:	NaN	0.0000	NaN
Maximum:	NaN	22.680	NaN
Minimum:	NaN	22.680	NaN
Number of data:	NaN	1.0000	NaN

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:	NaN	NaN	0.18000	1.1557
St. deviation:	NaN	NaN	0.89062	4.0855
Maximum:	NaN	NaN	3.3000	13.500
Minimum:	NaN	NaN	-2.8000	-8.3000
Number of data:	NaN	NaN	1050.0	1050.0

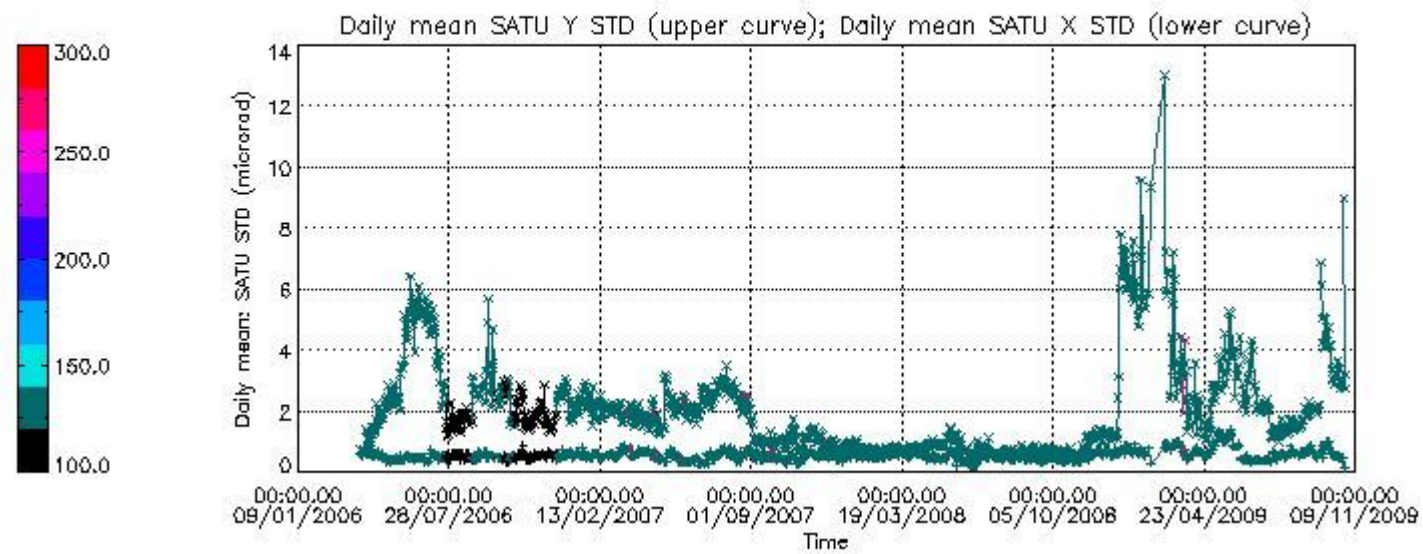
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

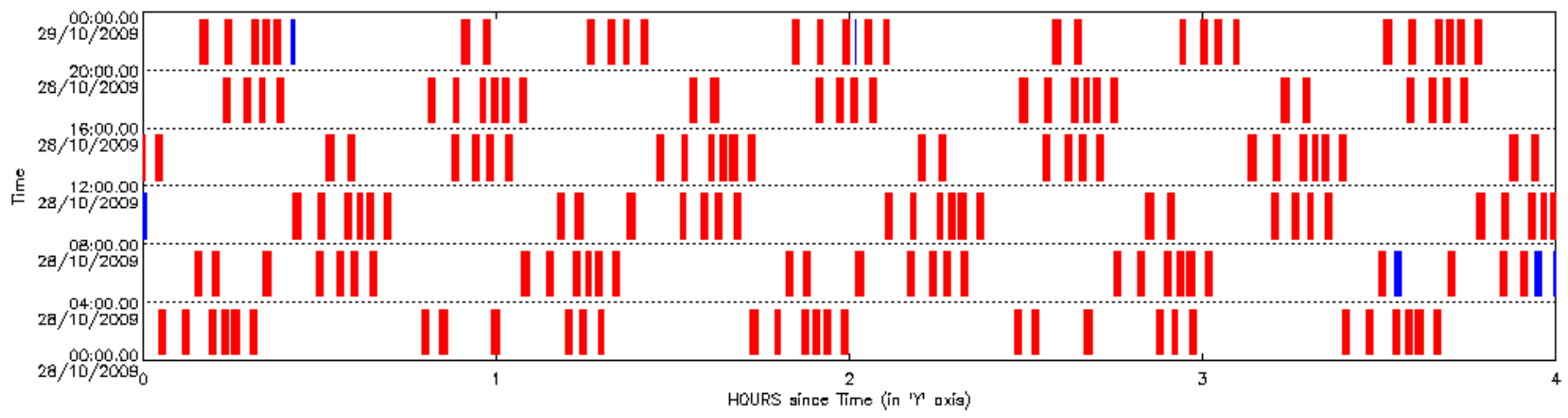
Lower curve: STD of SATU X axis

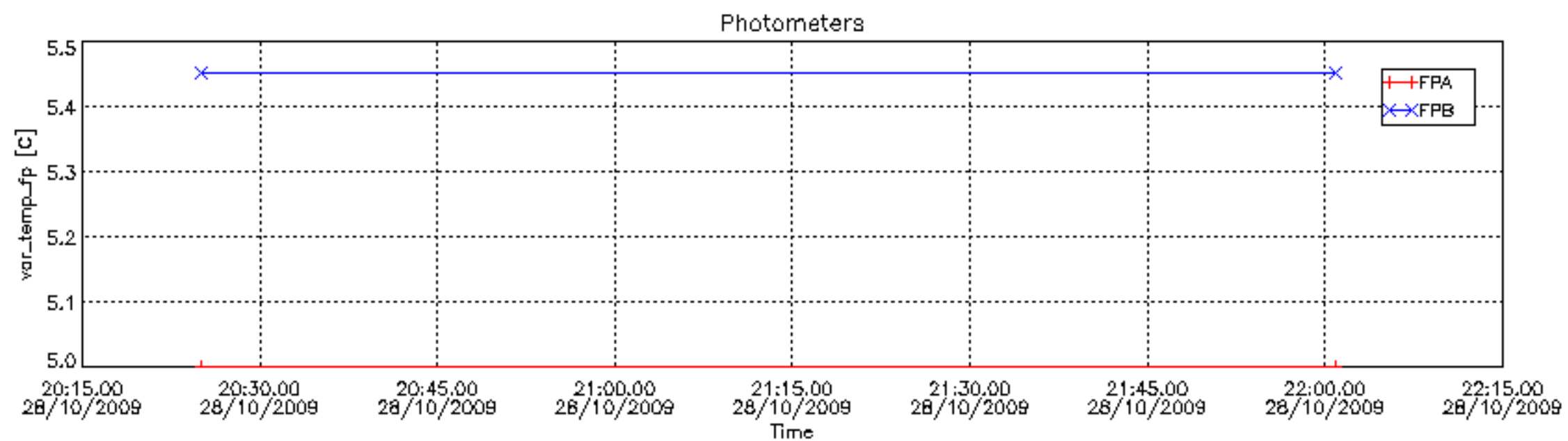
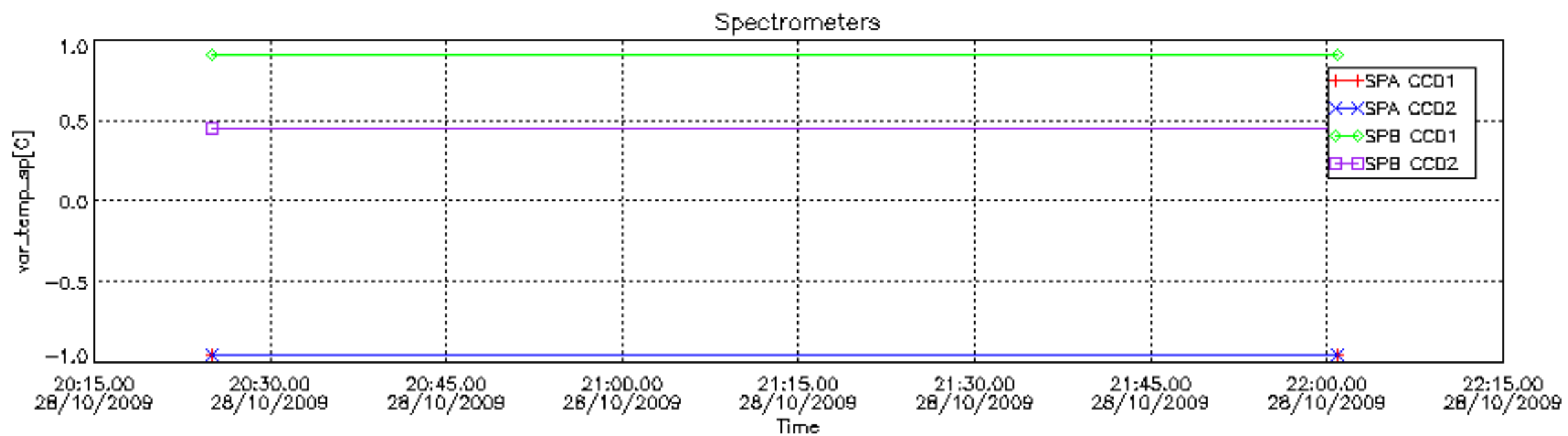


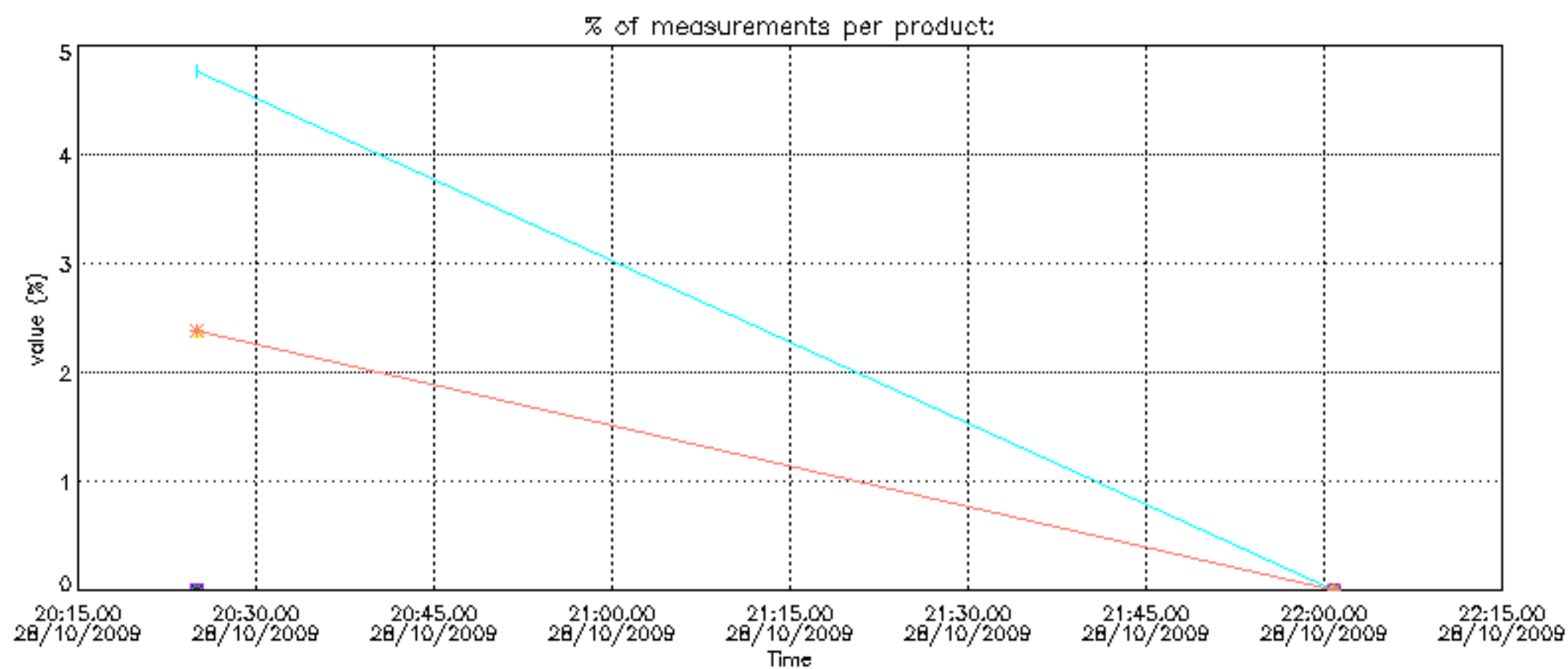
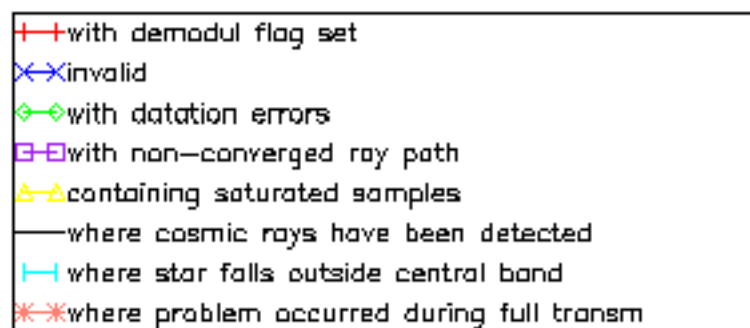
8. Auxiliary Data Files used for the production reported in section 2.4

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.

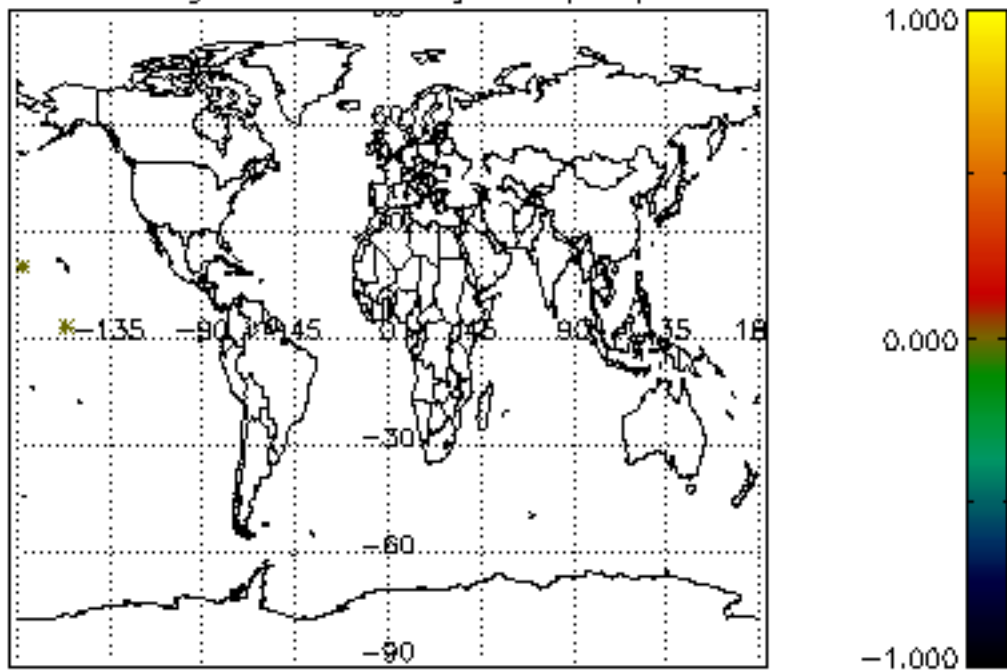
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	28-OCT-2009 20:25:01
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091021_155237_20091019_000000_20100101_000000	1	28-OCT-2009 20:25:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-OCT-2009 20:25:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-OCT-2009 20:25:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-OCT-2009 20:25:01
ECMWF_FILE	AUX_ECA_AXNECM20091028_181416_20091028_090000_20091028_210000	1	28-OCT-2009 20:25:01
ECMWF_FILE	AUX_ECF_AXNECM20091028_064112_20091028_210000_20091029_090000	2	28-OCT-2009 22:00:52
OPTIONAL_ECMWF_FILE	MISSING	1	28-OCT-2009 20:25:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091028_194444_000041442083_00429_40062_9055.N1	1	28-OCT-2009 20:25:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091028_205348_000060572083_00429_40062_9056.N1	2	28-OCT-2009 22:00:52



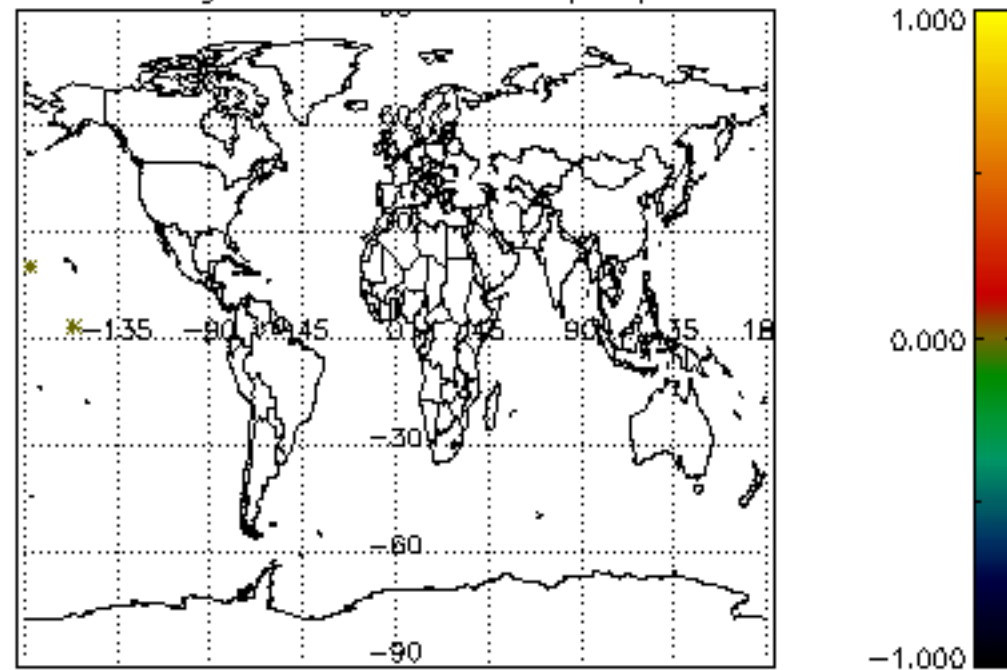




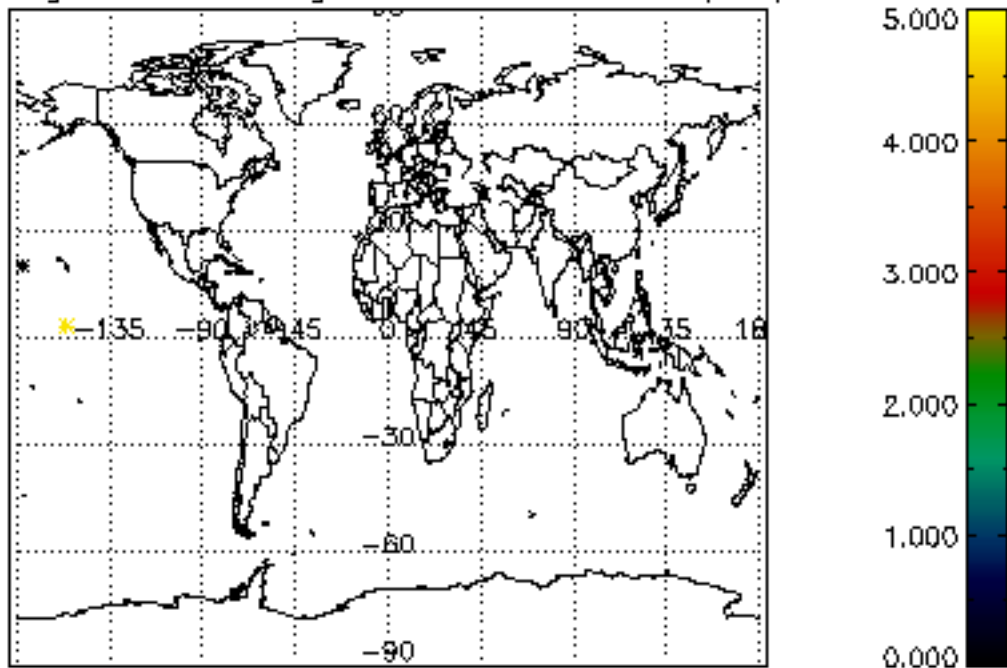
Percentage of cosmic ray hits per profile



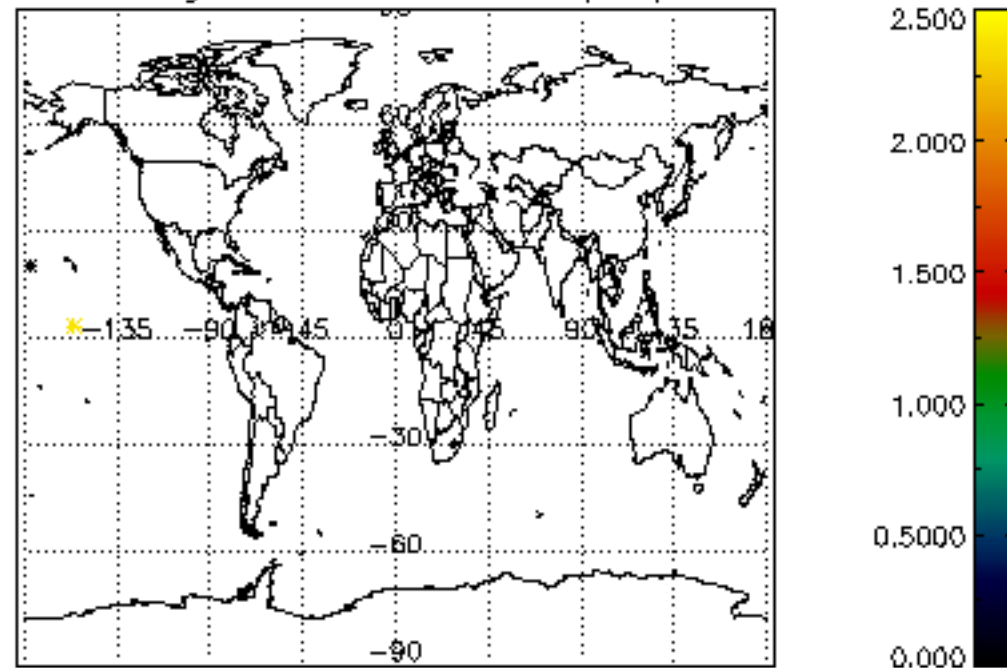
Percentage of datation errors per profile



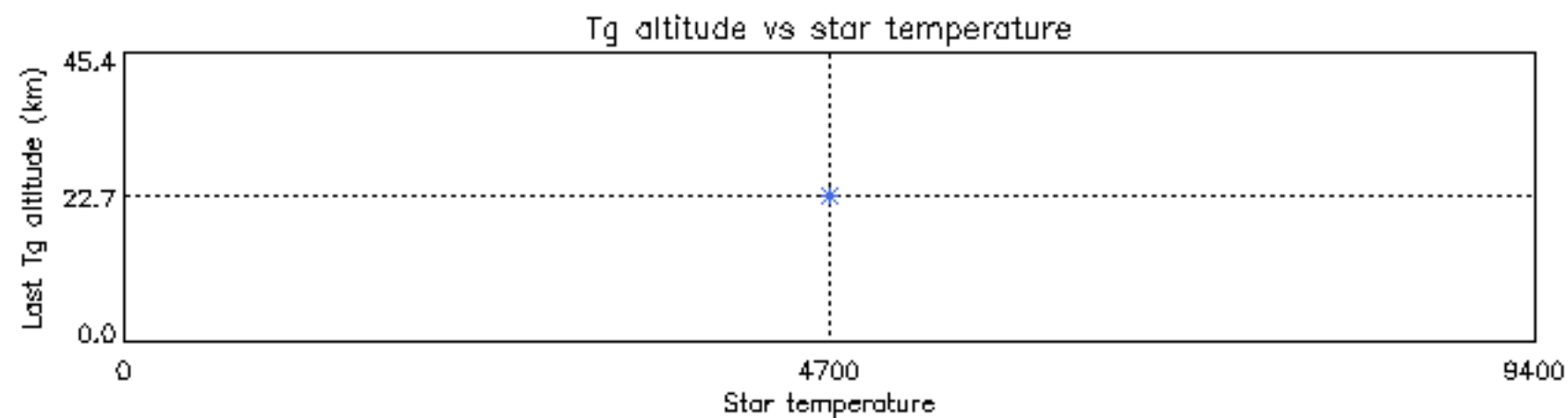
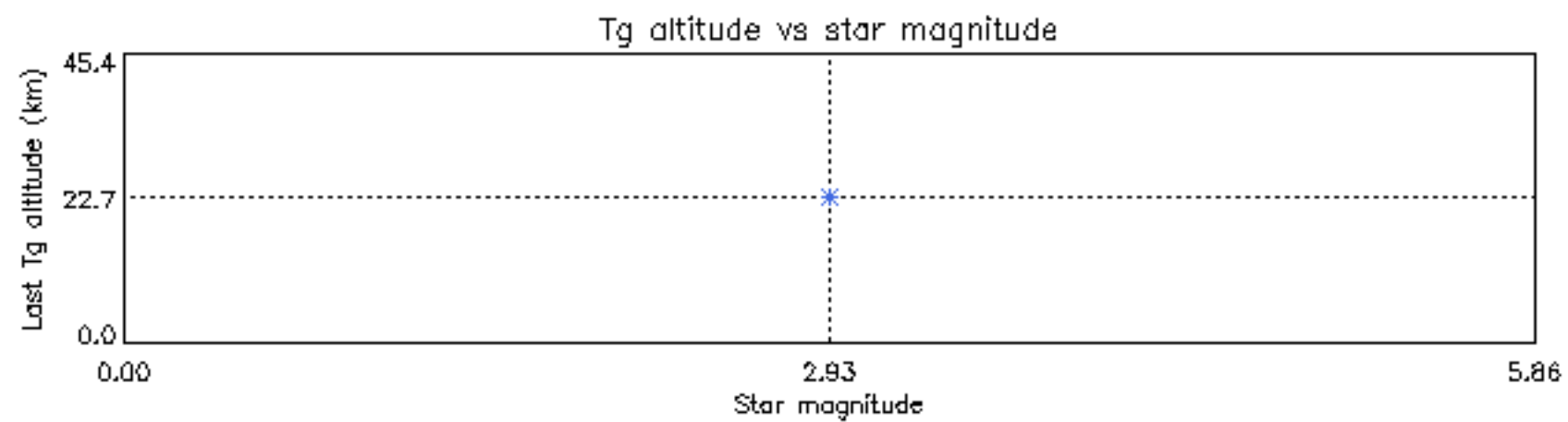
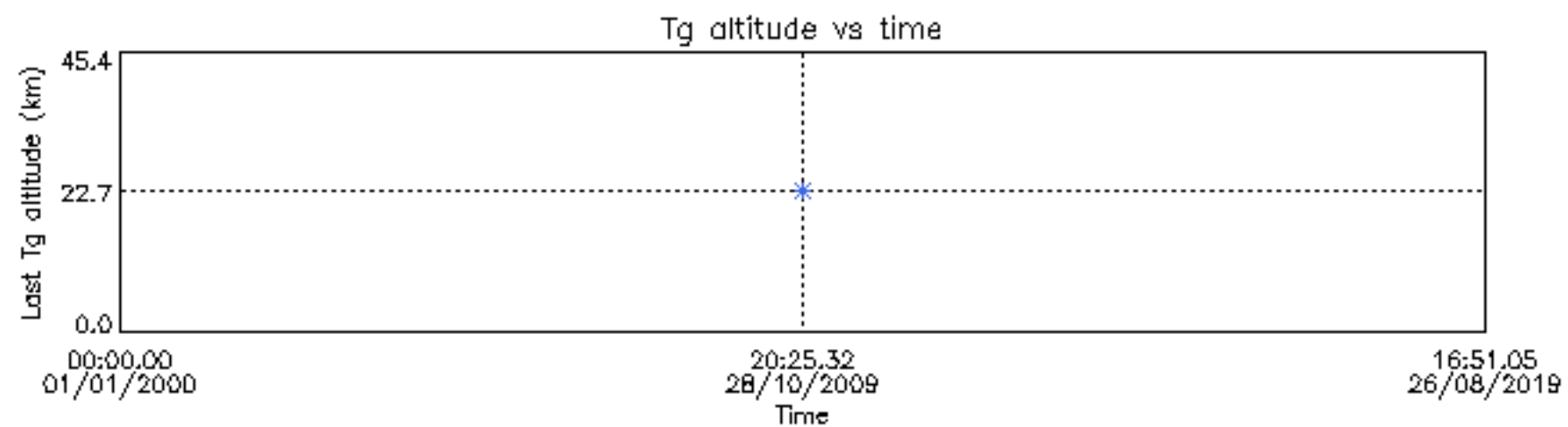
Percentage of star falling outside central band per profile

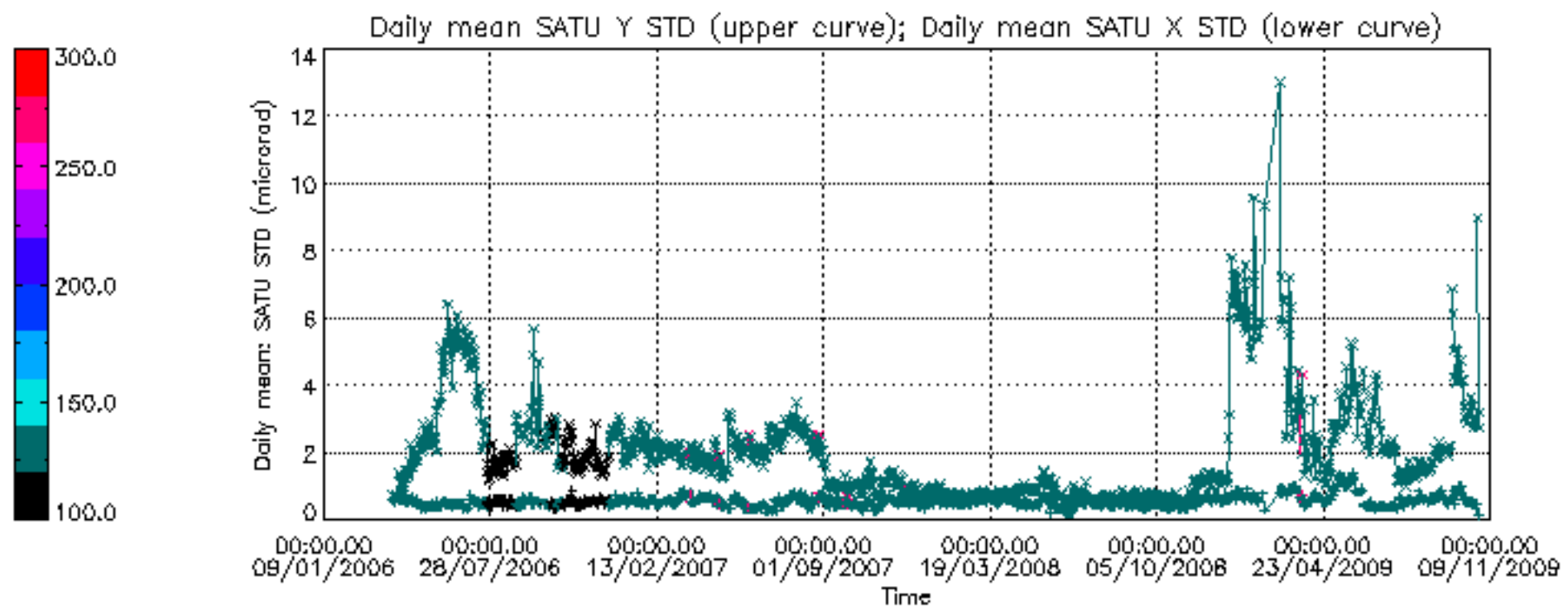


Percentage of saturation errors per profile



Tangent altitude at which the star is lost





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2; -232.4; 01-OCT-2009 00:13:29; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39663
3; -128.1; 01-OCT-2009 00:15:14; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39663
4; 97.3; 01-OCT-2009 00:18:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39664
5; 305.4; 01-OCT-2009 00:22:27; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39664
6; 915.5; 01-OCT-2009 00:32:37; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39664
7; 1557.3; 01-OCT-2009 00:43:19; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;39664
8; 2184.9; 01-OCT-2009 00:53:47; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39664
9; 2434.7; 01-OCT-2009 00:57:57; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39664
10; 2659.8; 01-OCT-2009 01:01:42; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39664
11; 2945.5; 01-OCT-2009 01:06:27; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39664
12; 3031.5; 01-OCT-2009 01:07:53; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39664
13; 4601.5; 01-OCT-2009 01:34:03; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39664
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3; -126.7; 01-OCT-2009 01:55:51; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39664
4; 98.5; 01-OCT-2009 01:59:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39665
5; 306.9; 01-OCT-2009 02:03:05; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39665
6; 915.7; 01-OCT-2009 02:13:14; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39665
7; 1557.1; 01-OCT-2009 02:23:55; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39665
8; 2184.6; 01-OCT-2009 02:34:22; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39665
9; 2434.7; 01-OCT-2009 02:38:32; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39665
10; 2659.2; 01-OCT-2009 02:42:17; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39665
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5; 99.7; 01-OCT-2009 03:40:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39666
6; 917.1; 01-OCT-2009 03:53:51; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39666
7; 1557.3; 01-OCT-2009 04:04:31; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39666
8; 2184.5; 01-OCT-2009 04:14:58; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39666
9; 2434.3; 01-OCT-2009 04:19:08; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39666
10; 2658.5; 01-OCT-2009 04:22:52; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39666
11; 2944.9; 01-OCT-2009 04:27:39; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39666
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6; 917.8; 01-OCT-2009 05:34:28; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39667
7; 1557.6; 01-OCT-2009 05:45:07; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;39667
8; 2184.7; 01-OCT-2009 05:55:34; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;39667
9; 2433.9; 01-OCT-2009 05:59:44; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39667
10; 2657.7; 01-OCT-2009 06:03:27; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;39667
11; 2944.1; 01-OCT-2009 06:08:14; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39667
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3; 2431.2; 01-OCT-2009 21:05:04; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39676
4; 2651.9; 01-OCT-2009 21:08:45; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39676
5; 2940.9; 01-OCT-2009 21:13:34; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39676
6; 3026.8; 01-OCT-2009 21:15:00; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39676
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4; 113.2; 01-OCT-2009 22:07:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39677
5; 325.1; 01-OCT-2009 22:10:34; Dark ; 60.5; 108; Alp Col ; 2.65; 15200;occ; 121; 0;39677
6; 925.3; 01-OCT-2009 22:20:34; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;39677

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9; 2431.3; 01-OCT-2009 22:45:40; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39677
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11; 2940.6; 01-OCT-2009 22:54:10; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39677
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4; 114.4; 01-OCT-2009 23:47:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39678
5; 327.1; 01-OCT-2009 23:51:12; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39678
6; 925.2; 02-OCT-2009 00:01:10; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39678
7; 1559.0; 02-OCT-2009 00:11:44; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39678
8; 2182.3; 02-OCT-2009 00:22:07; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39678
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10; 2650.6; 02-OCT-2009 00:29:56; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39678
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12; 3026.1; 02-OCT-2009 00:36:11; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39678
13; 4605.3; 02-OCT-2009 01:02:30; Bright; 37.5; 17; 78Bet Gem ; 1.16; 4500;occ; 75; 0;39678
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3; -228.1; 01-OCT-2009 06:55:58; Dark ; 40.5; 88; 31Eta CMA ; 2.45; 20000;occ; 81; 0;39667
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5; 102.0; 01-OCT-2009 07:01:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39668
6; 311.5; 01-OCT-2009 07:04:57; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39668
7; 918.5; 01-OCT-2009 07:15:04; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39668
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3; 2657.1; 01-OCT-2009 07:44:03; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;39668
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5; 3029.9; 01-OCT-2009 07:50:16; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;39668
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7; 5590.7; 01-OCT-2009 08:32:56; Dark ; 36.0; 132; 15Rho Pup ; 2.80; 6900;occ; 72; 0;39668
8; 5808.8; 01-OCT-2009 08:36:35; Dark ; 41.0; 88; 31Eta CMA ; 2.45; 20000;occ; 82; 0;39668
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11; 6349.1; 01-OCT-2009 08:45:35; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;39668
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13; 7594.2; 01-OCT-2009 09:06:20; Dark ; 33.5; 52; 16Bet Cet ; 2.04; 4500;occ; 67; 0;39668
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3; 2656.6; 01-OCT-2009 09:24:38; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39669
4; 2943.5; 01-OCT-2009 09:29:25; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39669
5; 3029.4; 01-OCT-2009 09:30:51; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;39669
6; 4602.9; 01-OCT-2009 09:57:05; Bright; 37.5; 17; 78Bet Gem ; 1.16; 4500;occ; 75; 0;39669
7; 5591.4; 01-OCT-2009 10:13:33; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;39669
8; 5810.2; 01-OCT-2009 10:17:12; Dark ; 40.5; 88; 31Eta CMA ; 2.45; 20000;occ; 81; 0;39669
9; 5915.4; 01-OCT-2009 10:18:57; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;39669
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12; 6955.5; 01-OCT-2009 10:36:17; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39669
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5; 3029.1; 01-OCT-2009 11:11:27; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;39670
6; 4603.1; 01-OCT-2009 11:37:41; Bright; 37.5; 17; 78Bet Gem ; 1.16; 4500;occ; 75; 0;39670
7; 5592.1; 01-OCT-2009 11:54:10; Dark ; 36.0; 132; 15Rho Pup ; 2.80; 6900;occ; 72; 0;39670
8; 5811.1; 01-OCT-2009 11:57:49; Dark ; 41.0; 88; 31Eta CMA ; 2.45; 20000;occ; 82; 0;39670
9; 5916.8; 01-OCT-2009 11:59:34; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;39670

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3; 2432.6; 01-OCT-2009 14:22:42; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39672
4; 2654.6; 01-OCT-2009 14:26:24; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39672
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3; 278.2; 26-OCT-2009 20:43:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40034
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1; 2563.8; 27-OCT-2009 02:23:28; Bright; 40.5; 173; 4Bet Tri ; 3.00; 8900;occ; 81; 0;40037
2; 2684.1; 27-OCT-2009 02:25:28; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40037
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1; 283.0; 27-OCT-2009 05:06:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40039
2; 470.2; 27-OCT-2009 05:09:46; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;40039
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1; 471.1; 27-OCT-2009 06:50:23; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;40040
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1; 284.8; 27-OCT-2009 08:27:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40041
2; 471.9; 27-OCT-2009 08:31:00; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;40041
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2; 2681.8; 27-OCT-2009 10:48:25; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40042
3; 6509.3; 27-OCT-2009 11:52:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;40042
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2; 2681.6; 27-OCT-2009 14:09:37; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;40044
3; 6324.6; 27-OCT-2009 15:10:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40044
4; 6511.2; 27-OCT-2009 15:13:26; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;40044
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2; 2681.2; 27-OCT-2009 15:50:12; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40045
3; 6512.1; 27-OCT-2009 16:54:03; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;40045
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2; 475.9; 27-OCT-2009 18:34:39; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;40047
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2; 2679.9; 27-OCT-2009 19:11:23; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40047
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2; 298.0; 28-OCT-2009 07:56:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40055

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3; 482.8; 28-OCT-2009 07:59:33; Dark ; 47.0; 2; Alp Car ; -0.74; 7000; occ; 94; 0; 40055

