

GOMOS Daily Report 24-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	26OCT2009 08:59:59
Data source version	GOMOS/5.00L03
Start time of products	24OCT2009 01:12:10
Stop time of products	24OCT2009 23:30:10
Store outputs in DB	Yes
Nb of level 1b prods	14
Nb of prods with errors	1

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

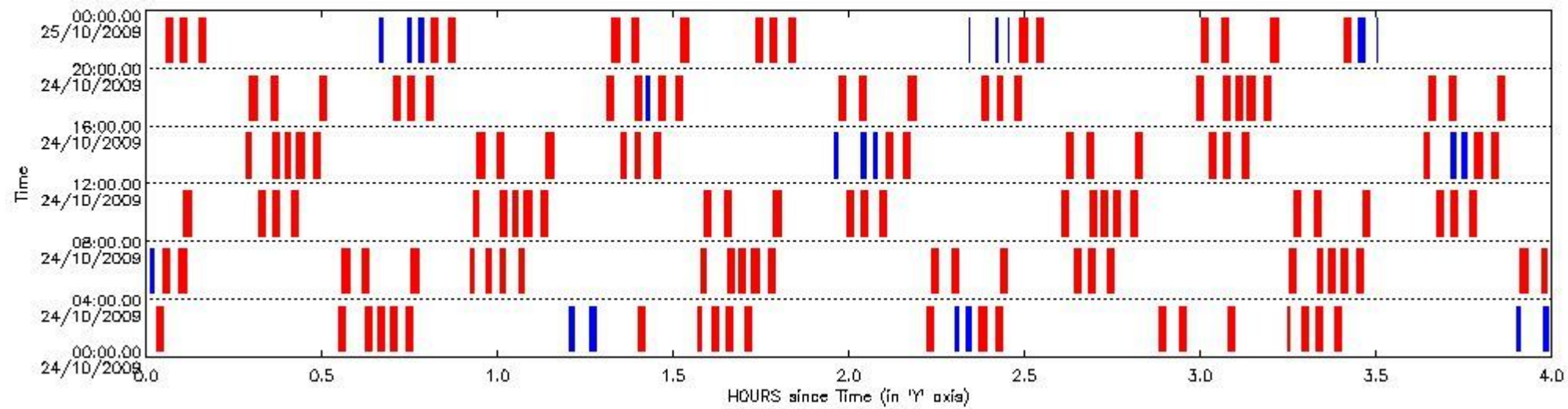
2.1 Level 0 products arrived in PCF (see template [here](#))

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
24-OCT-2009 00:01:41	AlpCar	2	39993
24-OCT-2009 00:32:48	6BetAri	105	39993
24-OCT-2009 00:37:31	4BetTri	173	39993
24-OCT-2009 00:39:30	57Gam1And	73	39993
24-OCT-2009 00:41:37	26BetPer	79	39993
24-OCT-2009 00:44:27	23GamPer	160	39993
24-OCT-2009 01:23:59	30AlpHya	48	39993
24-OCT-2009 01:34:10	15RhoPup	132	39993
24-OCT-2009 01:36:40	Gam2Vel	34	39994
24-OCT-2009 01:39:05	DSA1055	0	39994
24-OCT-2009 01:42:18	AlpCar	2	39994
24-OCT-2009 02:13:24	6BetAri	105	39994
24-OCT-2009 02:22:12	26BetPer	79	39994
24-OCT-2009 02:25:03	23GamPer	160	39994
24-OCT-2009 02:52:52	17EpsLeo	166	39994

24-OCT-2009 02:56:21	32AlpLeo	22	39994
24-OCT-2009 03:04:36	30AlpHya	48	39994
24-OCT-2009 03:14:48	15RhoPup	132	39994
24-OCT-2009 03:17:17	Gam2Vel	34	39995
24-OCT-2009 03:19:41	DSA1055	0	39995
24-OCT-2009 03:22:55	AlpCar	2	39995
24-OCT-2009 04:02:47	26BetPer	79	39995
24-OCT-2009 04:05:38	23GamPer	160	39995
24-OCT-2009 04:33:28	17EpsLeo	166	39995
24-OCT-2009 04:36:58	32AlpLeo	22	39995
24-OCT-2009 04:45:13	30AlpHya	48	39995
24-OCT-2009 04:55:25	15RhoPup	132	39995
24-OCT-2009 04:57:53	Gam2Vel	34	39996
24-OCT-2009 05:00:18	DSA1055	0	39996
24-OCT-2009 05:03:31	AlpCar	2	39996
24-OCT-2009 05:34:35	6BetAri	105	39996
24-OCT-2009 05:39:17	4BetTri	173	39996
24-OCT-2009 05:41:16	57Gam1And	73	39996
24-OCT-2009 05:43:22	26BetPer	79	39996
24-OCT-2009 05:46:13	23GamPer	160	39996
24-OCT-2009 06:14:04	17EpsLeo	166	39996
24-OCT-2009 06:17:34	32AlpLeo	22	39996
24-OCT-2009 06:25:50	30AlpHya	48	39996
24-OCT-2009 06:38:30	Gam2Vel	34	39997
24-OCT-2009 06:40:55	DSA1055	0	39997
24-OCT-2009 06:44:08	AlpCar	2	39997
24-OCT-2009 07:15:11	6BetAri	105	39997
24-OCT-2009 07:19:53	4BetTri	173	39997
24-OCT-2009 07:21:52	57Gam1And	73	39997
24-OCT-2009 07:23:57	26BetPer	79	39997
24-OCT-2009 07:26:49	23GamPer	160	39997
24-OCT-2009 07:54:41	17EpsLeo	166	39997
24-OCT-2009 07:58:11	32AlpLeo	22	39997
24-OCT-2009 08:06:26	30AlpHya	48	39997
24-OCT-2009 08:19:07	Gam2Vel	34	39998
24-OCT-2009 08:21:32	DSA1055	0	39998
24-OCT-2009 08:24:45	AlpCar	2	39998
24-OCT-2009 08:55:46	6BetAri	105	39998
24-OCT-2009 09:00:28	4BetTri	173	39998
24-OCT-2009 09:02:27	57Gam1And	73	39998
24-OCT-2009 09:04:32	26BetPer	79	39998
24-OCT-2009 09:07:24	23GamPer	160	39998
24-OCT-2009 09:35:17	17EpsLeo	166	39998
24-OCT-2009 09:38:47	32AlpLeo	22	39998
24-OCT-2009 09:47:03	30AlpHya	48	39998
24-OCT-2009 09:59:44	Gam2Vel	34	39999
24-OCT-2009 10:02:09	DSA1055	0	39999
24-OCT-2009 10:05:22	AlpCar	2	39999
24-OCT-2009 10:36:22	6BetAri	105	39999
24-OCT-2009 10:41:04	4BetTri	173	39999
24-OCT-2009 10:43:03	57Gam1And	73	39999
24-OCT-2009 10:45:07	26BetPer	79	39999
24-OCT-2009 10:47:59	23GamPer	160	39999
24-OCT-2009 11:15:53	17EpsLeo	166	39999
24-OCT-2009 11:19:23	32AlpLeo	22	39999
24-OCT-2009 11:27:40	30AlpHya	48	39999
24-OCT-2009 11:40:20	Gam2Vel	34	40000
24-OCT-2009 11:42:46	DSA1055	0	40000
24-OCT-2009 11:45:58	AlpCar	2	40000

24-OCT-2009 12:16:58	6BetAri	105	40000
24-OCT-2009 12:21:39	4BetTri	173	40000
24-OCT-2009 12:23:38	57Gam1And	73	40000
24-OCT-2009 12:25:42	26BetPer	79	40000
24-OCT-2009 12:28:34	23GamPer	160	40000
24-OCT-2009 12:56:29	17EpsLeo	166	40000
24-OCT-2009 13:00:00	32AlpLeo	22	40000
24-OCT-2009 13:08:17	30AlpHya	48	40000
24-OCT-2009 13:20:57	Gam2Vel	34	40001
24-OCT-2009 13:23:23	DSA1055	0	40001
24-OCT-2009 13:26:35	AlpCar	2	40001
24-OCT-2009 14:06:17	26BetPer	79	40001
24-OCT-2009 14:09:10	23GamPer	160	40001
24-OCT-2009 14:37:06	17EpsLeo	166	40001
24-OCT-2009 14:40:36	32AlpLeo	22	40001
24-OCT-2009 14:48:54	30AlpHya	48	40001
24-OCT-2009 15:01:34	Gam2Vel	34	40002
24-OCT-2009 15:04:00	DSA1055	0	40002
24-OCT-2009 15:07:12	AlpCar	2	40002
24-OCT-2009 15:38:09	6BetAri	105	40002
24-OCT-2009 15:46:52	26BetPer	79	40002
24-OCT-2009 15:49:45	23GamPer	160	40002
24-OCT-2009 16:17:42	17EpsLeo	166	40002
24-OCT-2009 16:21:12	32AlpLeo	22	40002
24-OCT-2009 16:29:31	30AlpHya	48	40002
24-OCT-2009 16:42:11	Gam2Vel	34	40003
24-OCT-2009 16:44:36	DSA1055	0	40003
24-OCT-2009 16:47:49	AlpCar	2	40003
24-OCT-2009 17:18:44	6BetAri	105	40003
24-OCT-2009 17:23:26	4BetTri	173	40003
24-OCT-2009 17:27:27	26BetPer	79	40003
24-OCT-2009 17:30:20	23GamPer	160	40003
24-OCT-2009 17:58:18	17EpsLeo	166	40003
24-OCT-2009 18:01:49	32AlpLeo	22	40003
24-OCT-2009 18:10:08	30AlpHya	48	40003
24-OCT-2009 18:22:48	Gam2Vel	34	40004
24-OCT-2009 18:25:13	DSA1055	0	40004
24-OCT-2009 18:28:25	AlpCar	2	40004
24-OCT-2009 18:59:20	6BetAri	105	40004
24-OCT-2009 19:04:01	4BetTri	173	40004
24-OCT-2009 19:06:00	57Gam1And	73	40004
24-OCT-2009 19:08:02	26BetPer	79	40004
24-OCT-2009 19:10:56	23GamPer	160	40004
24-OCT-2009 19:38:54	17EpsLeo	166	40004
24-OCT-2009 19:42:25	32AlpLeo	22	40004
24-OCT-2009 19:50:45	30AlpHya	48	40004
24-OCT-2009 20:03:24	Gam2Vel	34	40005
24-OCT-2009 20:05:50	DSA1055	0	40005
24-OCT-2009 20:09:02	AlpCar	2	40005
24-OCT-2009 20:48:38	26BetPer	79	40005
24-OCT-2009 20:51:31	23GamPer	160	40005
24-OCT-2009 21:19:31	17EpsLeo	166	40005
24-OCT-2009 21:23:02	32AlpLeo	22	40005
24-OCT-2009 21:31:22	30AlpHya	48	40005
24-OCT-2009 21:44:01	Gam2Vel	34	40006
24-OCT-2009 21:46:27	DSA1055	0	40006
24-OCT-2009 21:49:39	AlpCar	2	40006
24-OCT-2009 22:29:13	26BetPer	79	40006
24-OCT-2009 22:32:06	23GamPer	160	40006

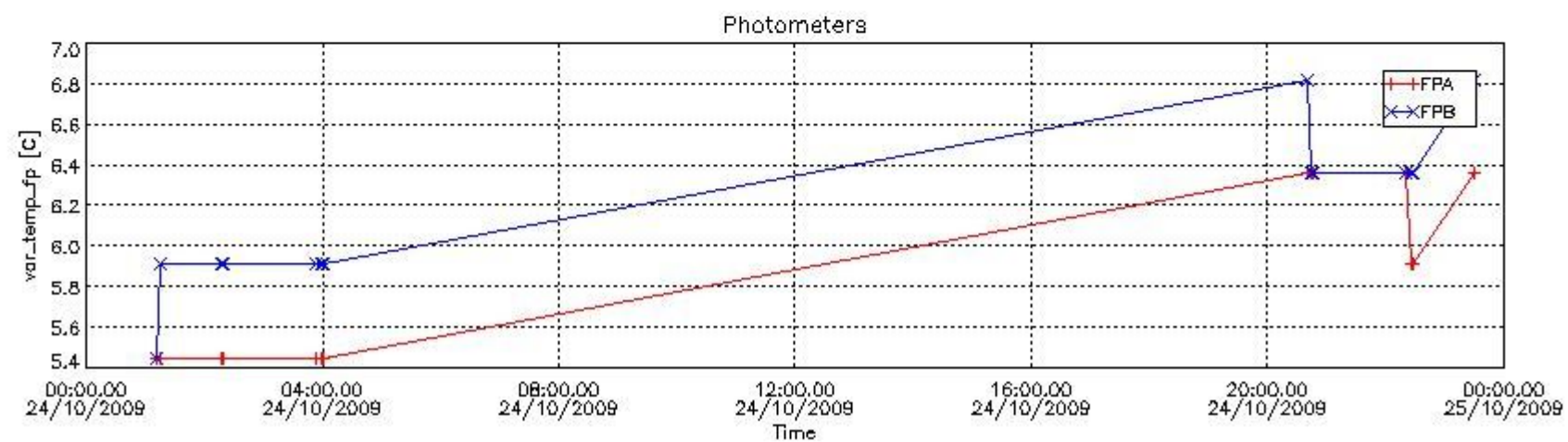
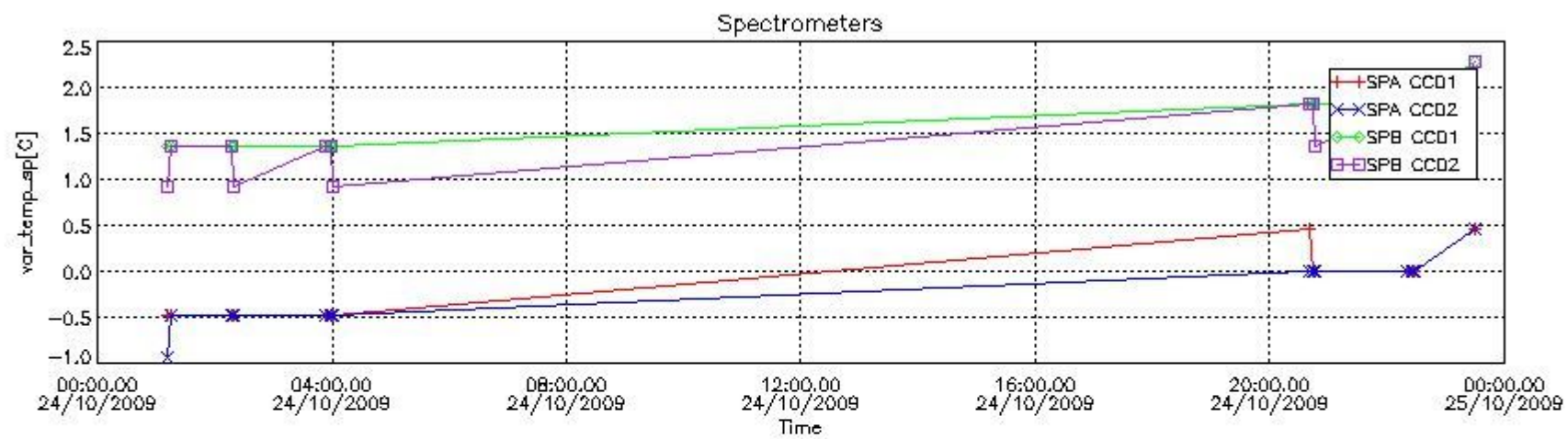
24-OCT-2009 23:00:07	17EpsLeo	166	40006
24-OCT-2009 23:03:38	32AlpLeo	22	40006
24-OCT-2009 23:11:59	30AlpHya	48	40006
24-OCT-2009 23:24:38	Gam2Vel	34	40007

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_1PNPDE20091024_011210_000000492083_00360_39993_1772.N1	24-OCT-2009 01:12:10	Bright	48.500	166	17Eps Leo	2.9800	6000.0	97	39993	No
2	GOM_TRA_1PNPDE20091024_011540_000000632083_00360_39993_1773.N1	24-OCT-2009 01:15:40	Bright	62.500	22	32Alp Leo	1.3600	15200.	125	39993	No
3	GOM_TRA_1PNPDE20091024_021802_000000432083_00361_39994_1780.N1	24-OCT-2009 02:18:02	Bright	42.500	173	4Bet Tri	3.0040	8900.0	85	39994	No
4	GOM_TRA_1PNPDE20091024_022000_000000422083_00361_39994_1781.N1	24-OCT-2009 02:20:00	Bright	42.000	73	57Gam1And	2.2600	13100.	84	39994	No
5	GOM_TRA_1PNPDE20091024_035355_000000442083_00362_39995_1787.N1	24-OCT-2009 03:53:55	Bright	43.500	105	6Bet Ari	2.6450	8900.0	87	39995	No
6	GOM_TRA_1PNPDE20091024_035837_000000402083_00362_39995_1788.N1	24-OCT-2009 03:58:37	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	39995	No
7	GOM_TRA_1PNPDE20091024_040036_000000432083_00362_39995_1789.N1	24-OCT-2009 04:00:36	Bright	43.000	73	57Gam1And	2.2600	13100.	86	39995	No
8	GOM_TRA_1PNPDE20091024_203950_000000322083_00372_40005_1847.N1	24-OCT-2009 20:39:50	Bright	32.000	105	6Bet Ari	2.6450	8900.0	64	40005	No
9	GOM_TRA_1PNPDE20091024_204432_000000432083_00372_40005_1848.N1	24-OCT-2009 20:44:32	Bright	43.000	173	4Bet Tri	3.0040	8900.0	86	40005	No
10	GOM_TRA_1PNPDE20091024_204631_000000432083_00372_40005_1849.N1	24-OCT-2009 20:46:31	Bright	42.500	73	57Gam1And	2.2600	13100.	85	40005	No
11	GOM_TRA_1PNPDE20091024_222027_000000082083_00373_40006_1853.N1	24-OCT-2009 22:20:27	Straylight	7.5000	105	6Bet Ari	2.6450	8900.0	15	40006	No
12	GOM_TRA_1PNPDE20091024_222509_000000082083_00373_40006_1854.N1	24-OCT-2009 22:25:09	Straylight	7.5000	173	4Bet Tri	3.0040	8900.0	15	40006	No
13	GOM_TRA_1PNPDE20091024_222707_000000092083_00373_40006_1855.N1	24-OCT-2009 22:27:07	Straylight	9.0000	73	57Gam1And	2.2600	13100.	18	40006	No
14	GOM_TRA_1PNPDE20091024_233010_000000032083_00374_40007_1861.N1	24-OCT-2009 23:30:10	Dark	2.5000	2	Alp Car	-0.73600	7000.0	5	40007	Yes

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_1PNPDE20091024_011210_000000492083_00360_39993_1772.N1	DC map used
GOM_TRA_1PNPDE20091024_011540_000000632083_00360_39993_1773.N1	DC map used
GOM_TRA_1PNPDE20091024_021802_000000432083_00361_39994_1780.N1	DC map used
GOM_TRA_1PNPDE20091024_022000_000000422083_00361_39994_1781.N1	DC map used
GOM_TRA_1PNPDE20091024_035355_000000442083_00362_39995_1787.N1	DC map used
GOM_TRA_1PNPDE20091024_035837_000000402083_00362_39995_1788.N1	DC map used
GOM_TRA_1PNPDE20091024_040036_000000432083_00362_39995_1789.N1	DC map used
GOM_TRA_1PNPDE20091024_203950_000000322083_00372_40005_1847.N1	DC map used
GOM_TRA_1PNPDE20091024_204432_000000432083_00372_40005_1848.N1	DC map used
GOM_TRA_1PNPDE20091024_204631_000000432083_00372_40005_1849.N1	DC map used
GOM_TRA_1PNPDE20091024_222027_000000082083_00373_40006_1853.N1	DC map used
GOM_TRA_1PNPDE20091024_222509_000000082083_00373_40006_1854.N1	DC map used
GOM_TRA_1PNPDE20091024_222707_000000092083_00373_40006_1855.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 conditions found. No plot performed.

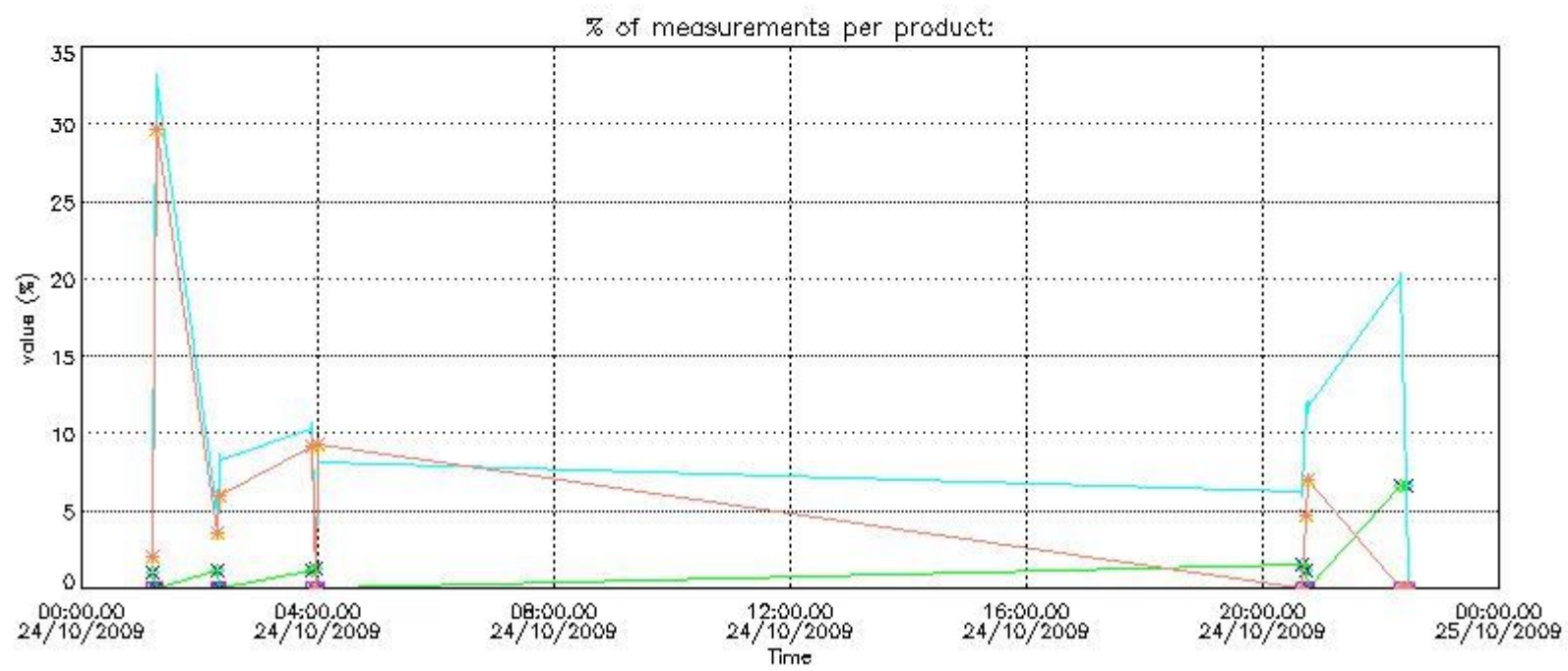
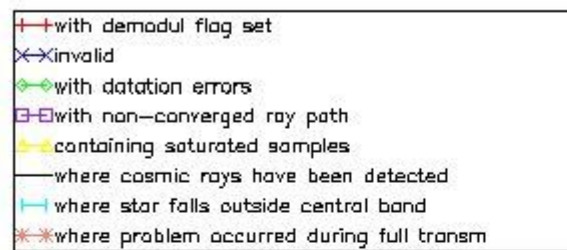
5. Demodulation flag and quality information monitoring

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.

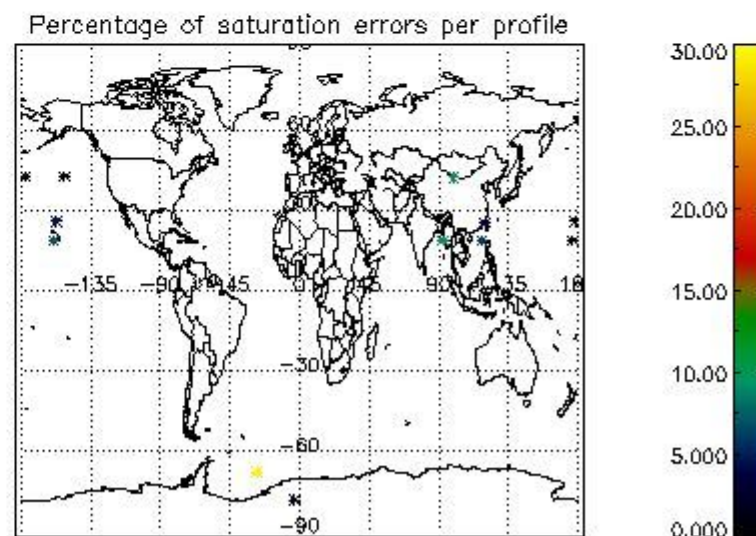
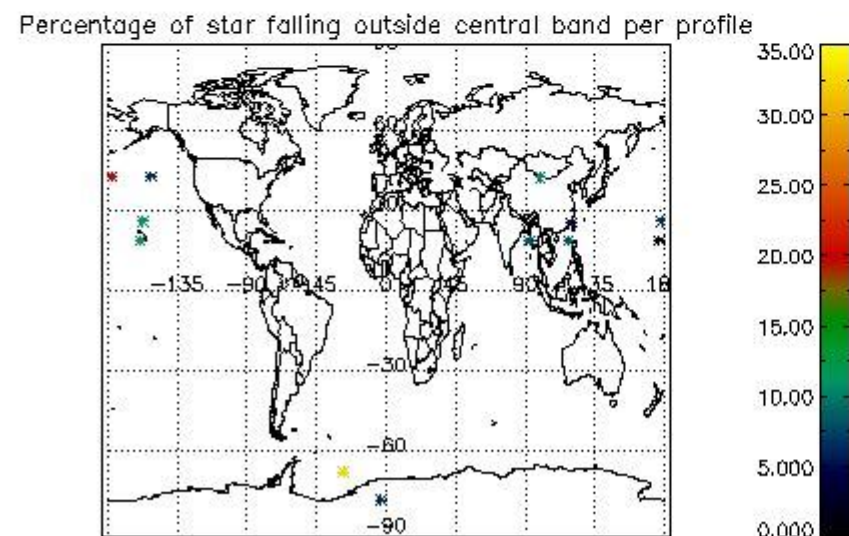
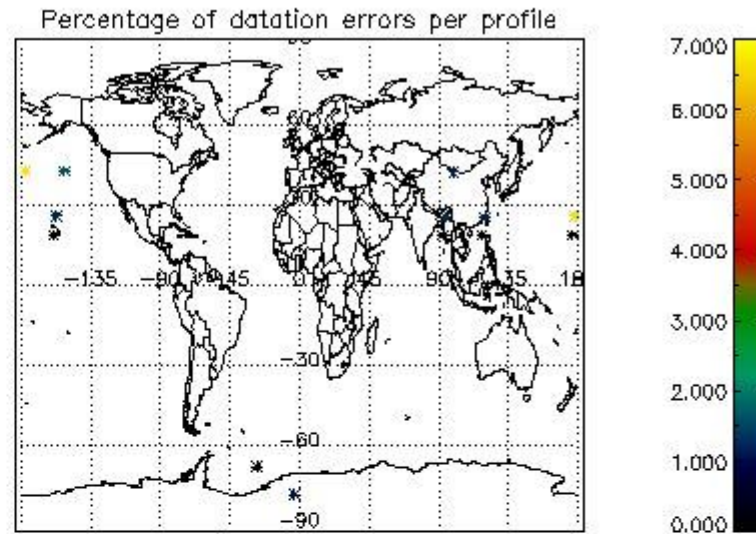
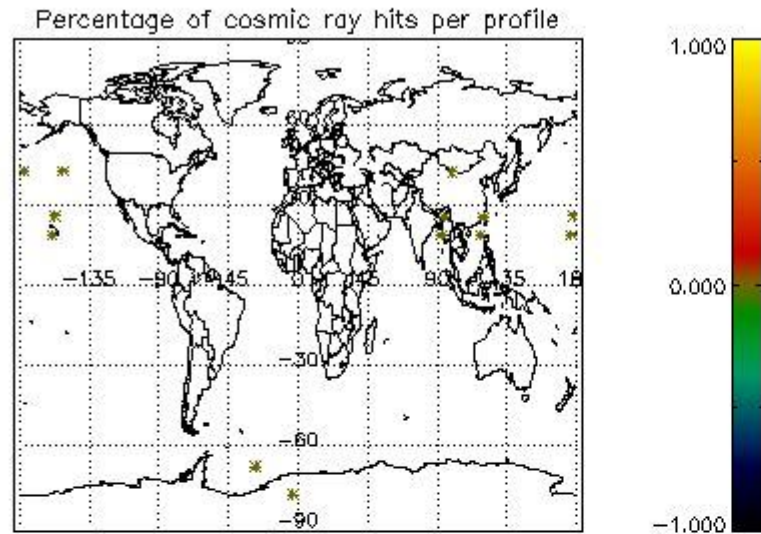
5.1 Percentage of products during reporting period with:

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)



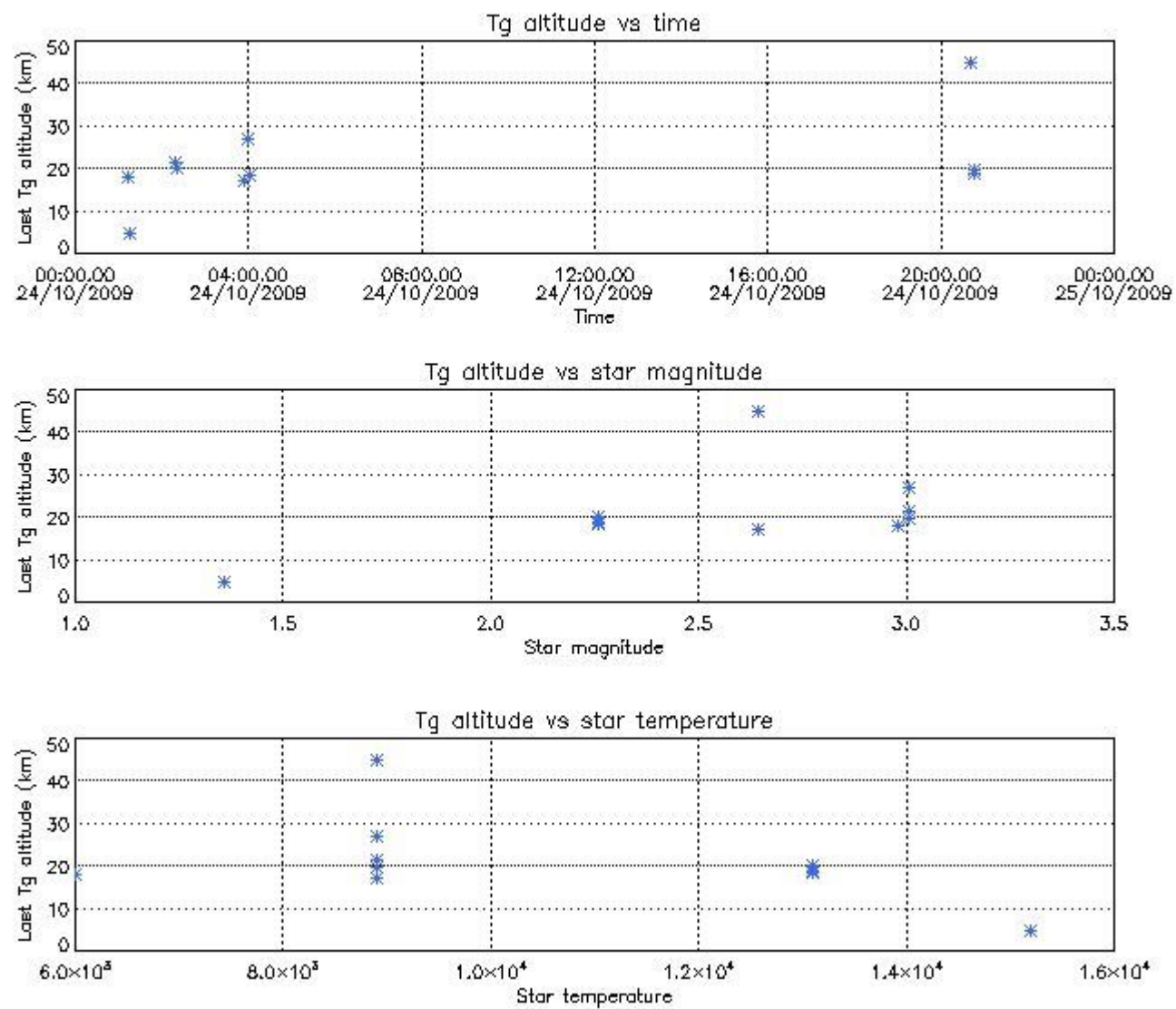
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	NaN	20.984	NaN
St. deviation:	NaN	10.039	NaN
Maximum:	NaN	44.860	NaN
Minimum:	NaN	4.6783	NaN
Number of data:	NaN	10.000	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	0.15889	0.97955
St. deviation:	NaN	NaN	0.94737	4.9385
Maximum:	NaN	NaN	5.7000	28.000
Minimum:	NaN	NaN	-4.8000	-29.100
Number of data:	NaN	NaN	10250.	10250.

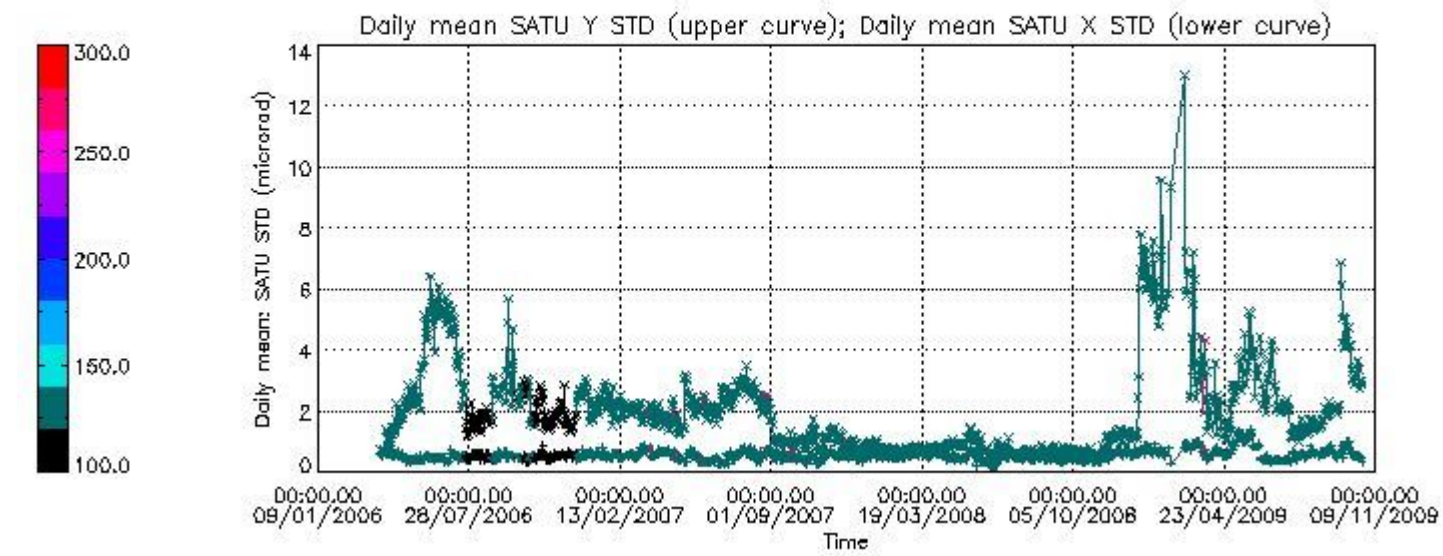
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

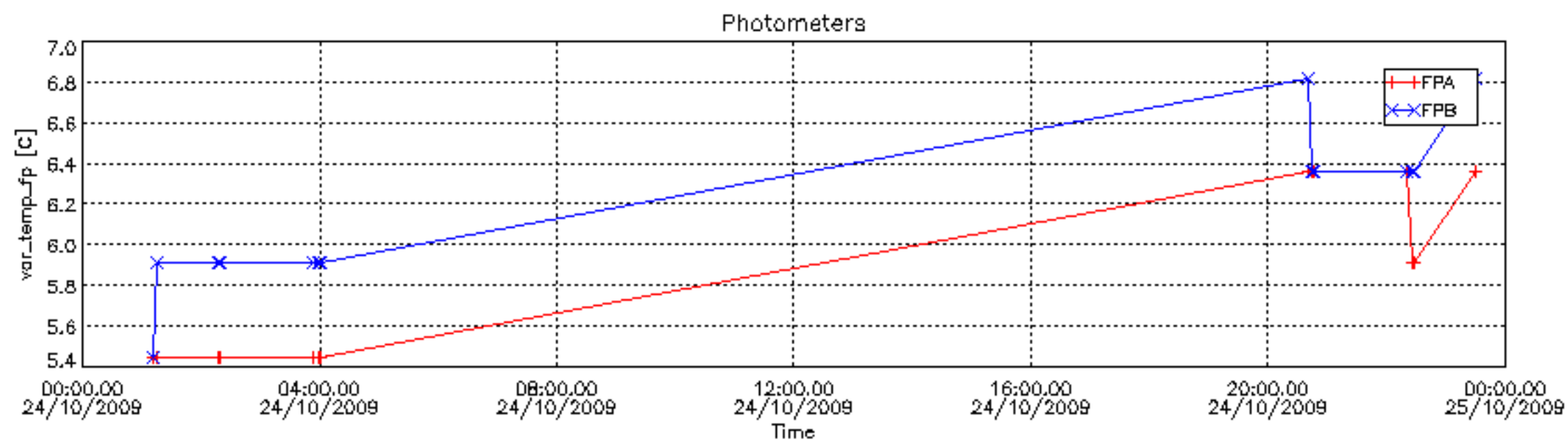
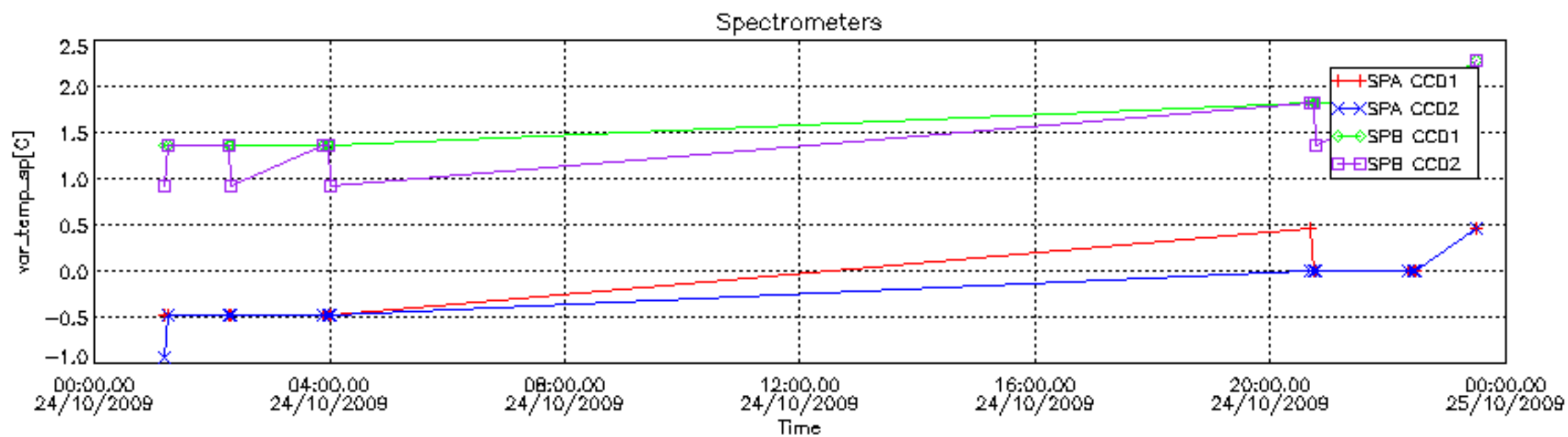


8. Auxiliary Data Files used for the production reported in section 2.4

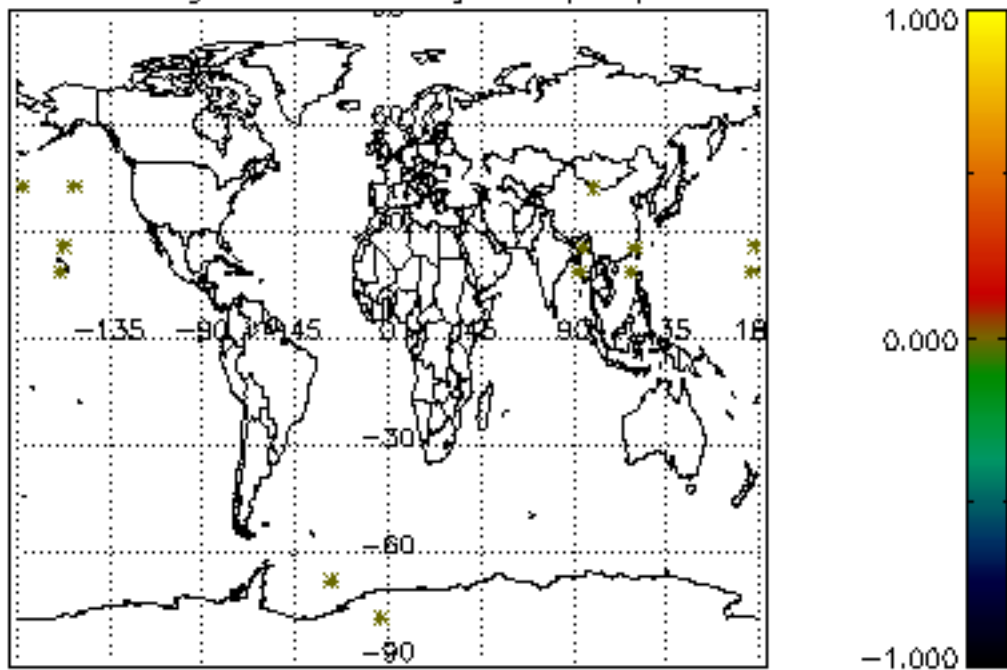
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	24-OCT-2009 01:12:10
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091021_155237_20091019_000000_20100101_000000	1	24-OCT-2009 01:12:10
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-OCT-2009 01:12:10
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-OCT-2009 01:12:10
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-OCT-2009 01:12:10
ECMWF_FILE	AUX_ECF_AXNECM20091023_064111_20091023_210000_20091024_090000	1	24-OCT-2009 01:12:10
ECMWF_FILE	AUX_ECF_AXNECM20091023_182116_20091024_030000_20091024_150000	5	24-OCT-2009 03:53:55
ECMWF_FILE	AUX_ECA_AXNECM20091024_182112_20091024_090000_20091024_210000	8	24-OCT-2009 20:39:50
ECMWF_FILE	AUX_ECF_AXNECM20091024_064112_20091024_210000_20091025_090000	11	24-OCT-2009 22:20:27
OPTIONAL_ECMWF_FILE	MISSING	1	24-OCT-2009 01:12:10
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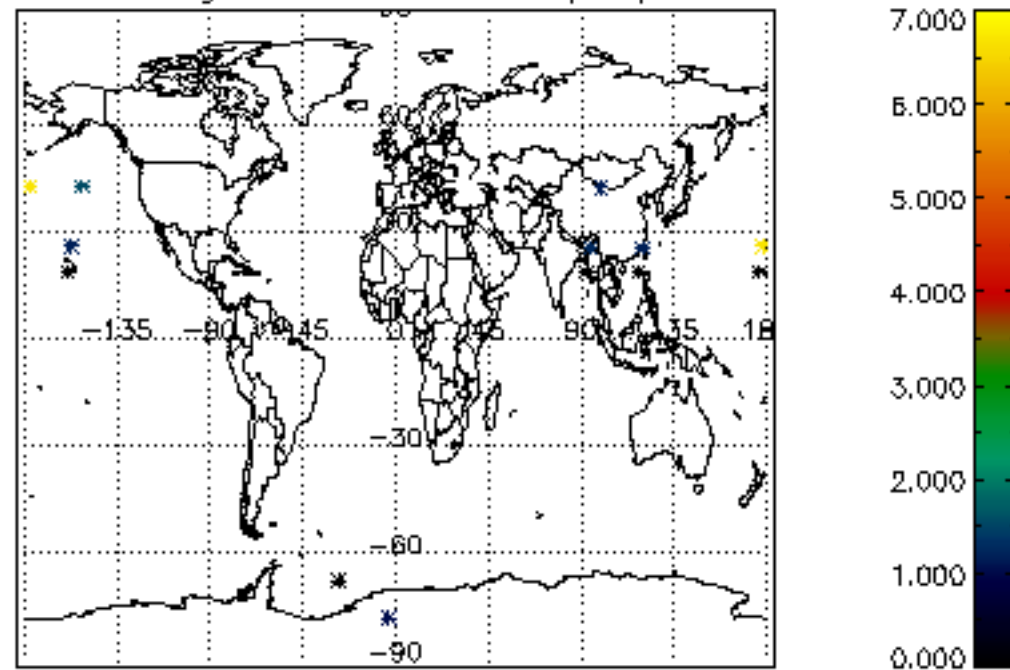
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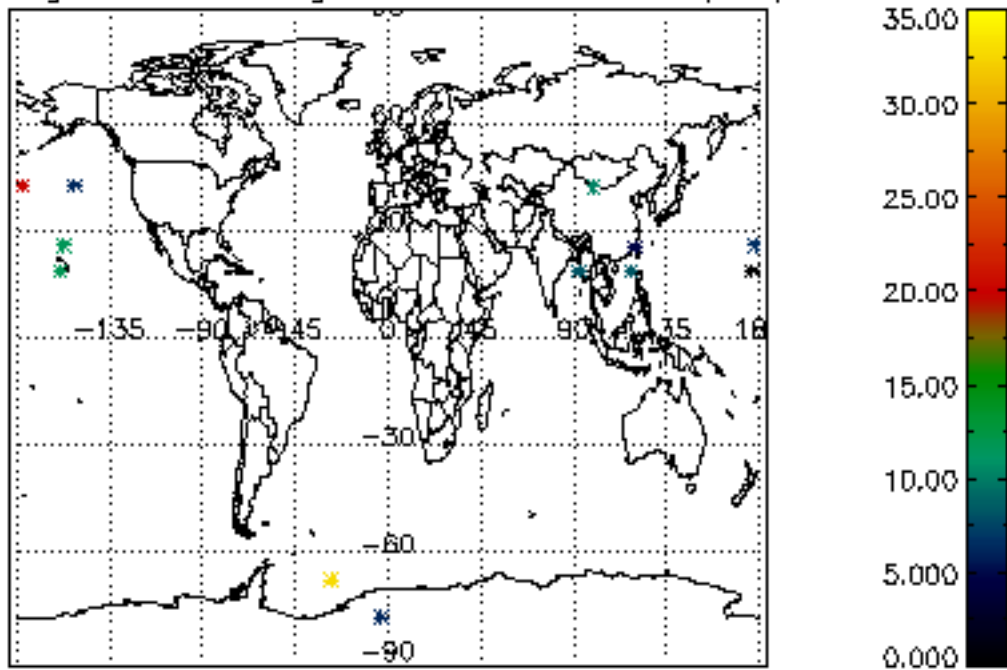
Percentage of cosmic ray hits per profile



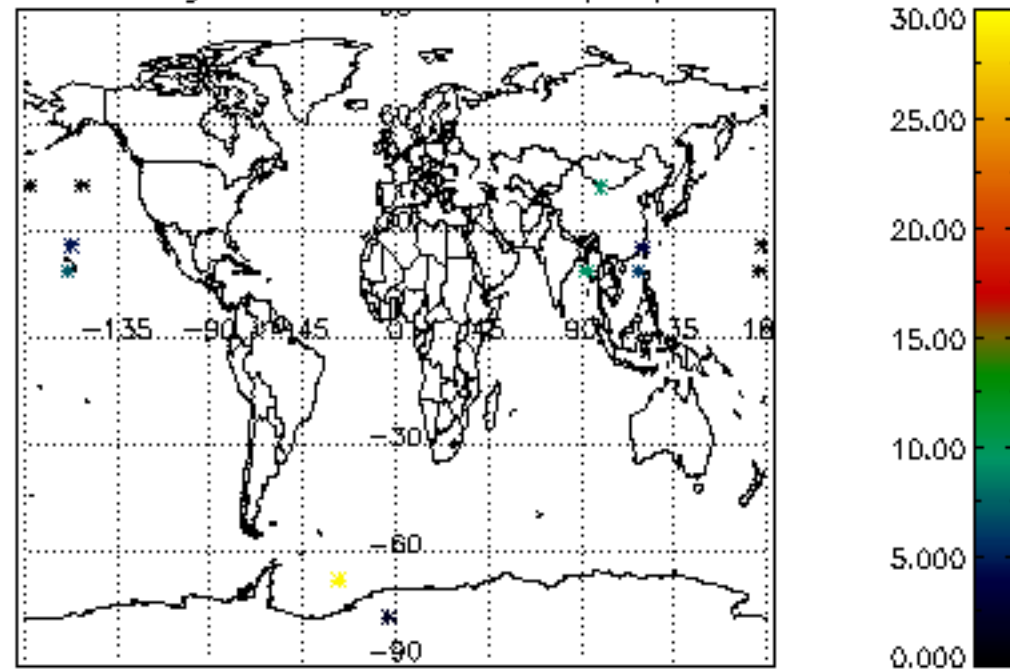
Percentage of datation errors per profile



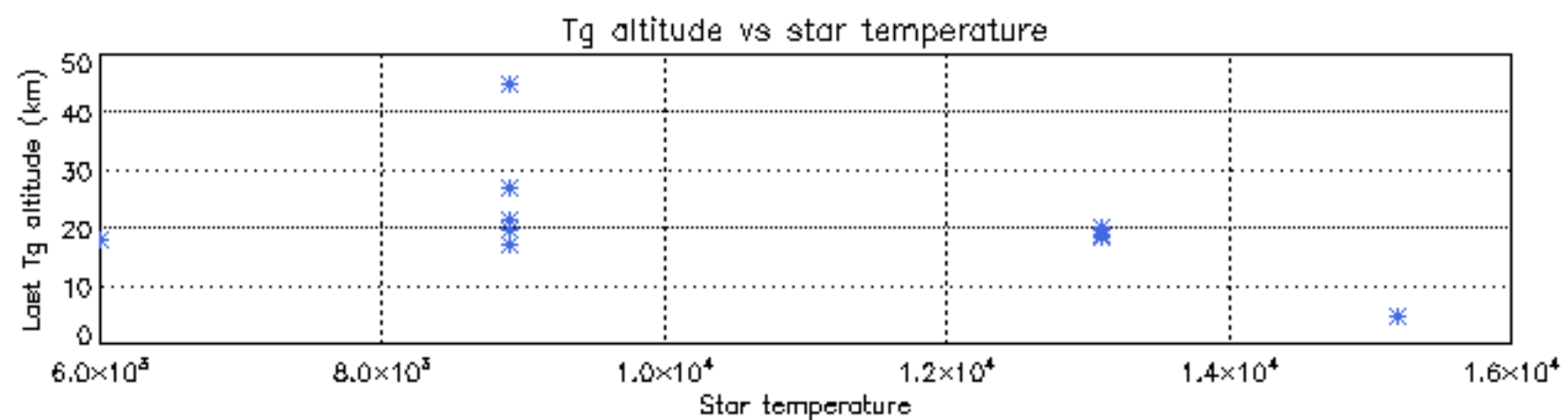
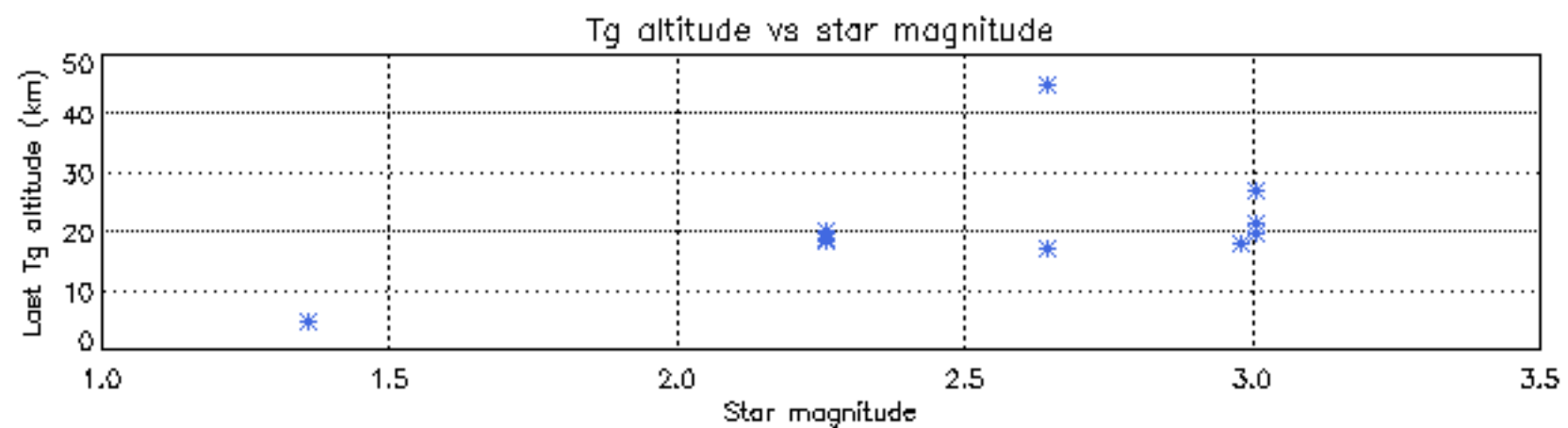
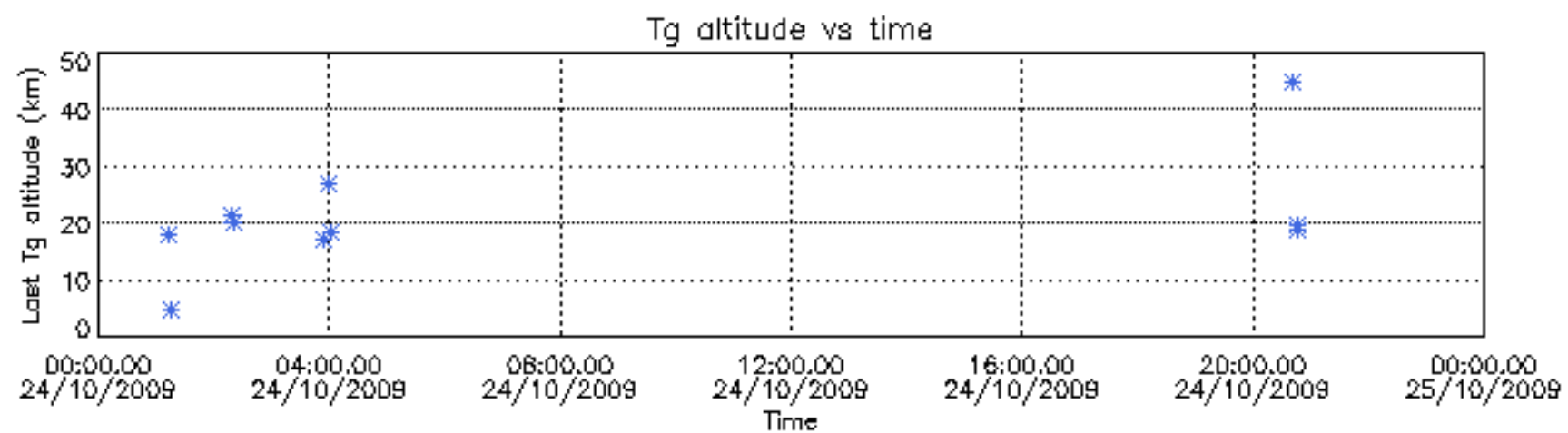
Percentage of star falling outside central band per profile

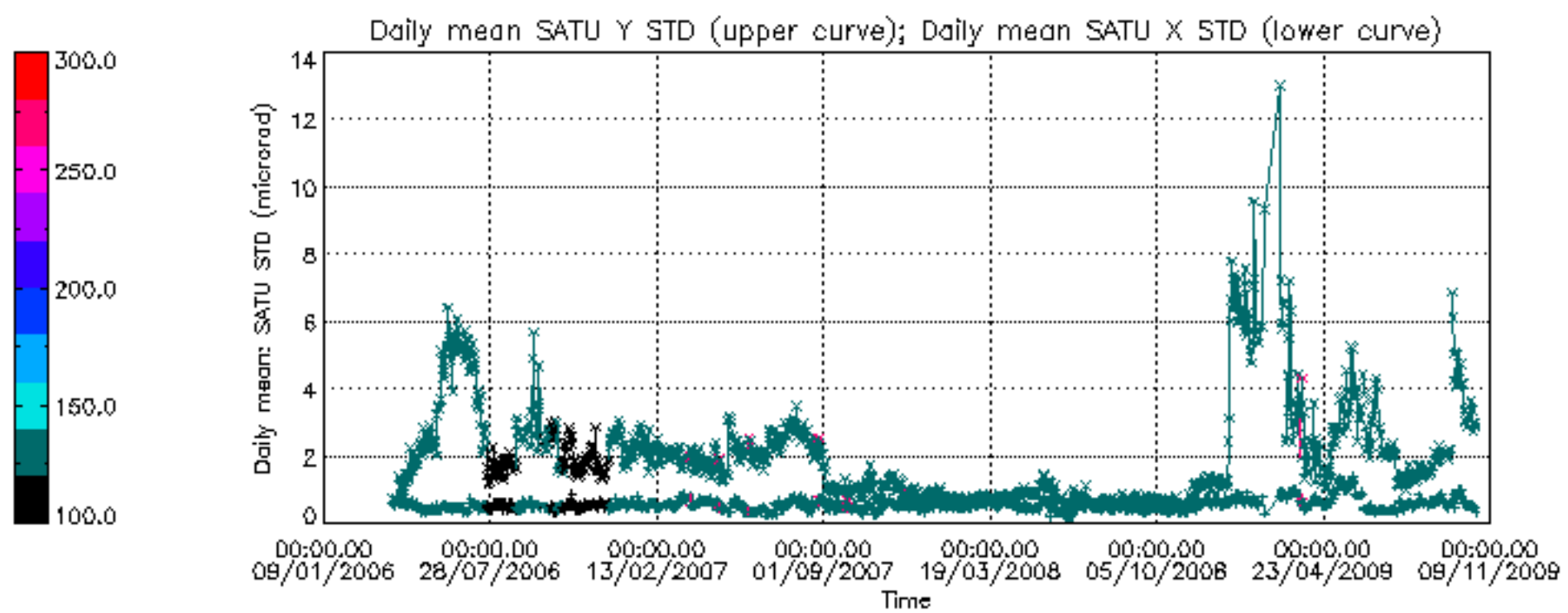


Percentage of saturation errors per profile



Tangent altitude at which the star is lost





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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
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6; 329.0; 15-OCT-2009 01:23:13; Dark ; 37.0; 2; Alp Car ; -0.74; 7000;occ; 74; 0;39865
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9; 2355.7; 15-OCT-2009 03:37:35; Bright; 40.5; 105; 6Bet Ari ; 2.64; 8900;occ; 81; 0;39866
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5; 2845.0; 22-OCT-2009 18:31:01; Bright; 44.0; 79; 26Bet Per ; 2.31; 13100;occ; 88; 0;39975
6; 3011.1; 22-OCT-2009 18:33:47; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;39975
7; 4662.0; 22-OCT-2009 19:01:18; Bright; 32.0; 166; 17Eps Leo ; 2.98; 6000;occ; 64; 0;39975
8; 4868.8; 22-OCT-2009 19:04:45; Bright; 31.0; 22; 32Alp Leo ; 1.36; 15200;occ; 62; 0;39975
9; 5354.0; 22-OCT-2009 19:12:50; Dark ; 37.5; 48; 30Alp Hya ; 1.98; 4100;occ; 75; 0;39975
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3; 430.0; 23-OCT-2009 17:19:09; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;39989
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4; 2575.9; 25-OCT-2009 03:26:54; Bright; 18.0; 173; 4Bet Tri ; 3.00; 8900;occ; 36; 0;40009
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6; 2575.2; 25-OCT-2009 06:48:05; Bright; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;40011
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5; 6310.4; 26-OCT-2009 14:01:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40029
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1; 2566.6; 26-OCT-2009 14:39:19; Bright; 7.5; 173; 4Bet Tri ; 3.00; 8900;occ; 15; 0;40030
2; 2686.9; 26-OCT-2009 14:41:19; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40030
3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
4; 6311.4; 26-OCT-2009 15:41:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40030
5; 6499.9; 26-OCT-2009 15:44:52; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;40030
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2; 2685.9; 26-OCT-2009 18:02:30; Bright; 25.5; 73; 57Gam1And ; 2.26; 13100;occ; 51; 0;40032
3; 6313.3; 26-OCT-2009 19:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40032
4; 6501.4; 26-OCT-2009 19:06:06; Dark ; 61.0; 2; Alp Car ;-0.74; 7000;occ; 122; 0;40032
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2; 130.3; 26-OCT-2009 20:41:07; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40034
3; 278.2; 26-OCT-2009 20:43:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40034
4; 465.6; 26-OCT-2009 20:46:42; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;40034
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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
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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
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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

