

GOMOS Daily Report 08-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	11OCT2009 04:39:30
Data source version	GOMOS/5.00L03
Start time of products	08OCT2009 00:01:23
Stop time of products	08OCT2009 23:42:09
Store outputs in DB	Yes
Nb of level 1b prods	51
Nb of prods with errors	0

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

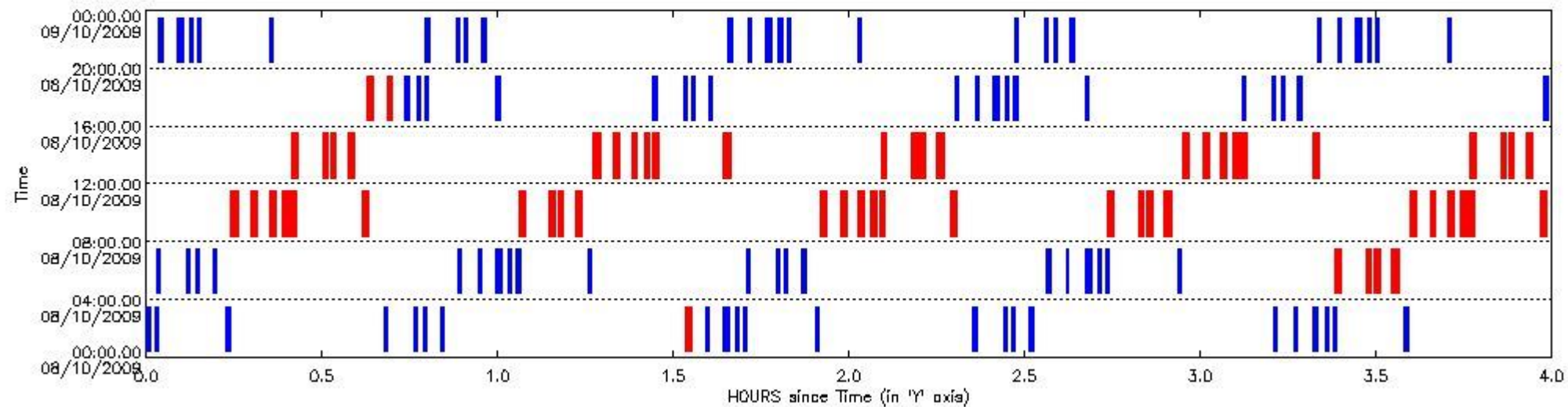
2.1 Level 0 products arrived in PCF (see template [here](#))

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-OCT-2009 01:32:00	15RhoPup	132	39764
08-OCT-2009 07:23:02	43BetAnd	53	39768
08-OCT-2009 07:28:15	18AlpCas	68	39768
08-OCT-2009 07:29:39	27GamCas	76	39768
08-OCT-2009 07:32:36	23GamPer	160	39768
08-OCT-2009 08:14:27	15RhoPup	132	39768
08-OCT-2009 08:17:57	ZetPup	70	39768
08-OCT-2009 08:21:01	DSA1055	0	39769
08-OCT-2009 08:23:08	TauPup	161	39769
08-OCT-2009 08:24:32	AlpCar	2	39769
08-OCT-2009 08:36:46	The1Eri	157	39769
08-OCT-2009 09:03:38	43BetAnd	53	39769
08-OCT-2009 09:08:51	18AlpCas	68	39769
08-OCT-2009 09:10:15	27GamCas	76	39769
08-OCT-2009 09:13:11	23GamPer	160	39769

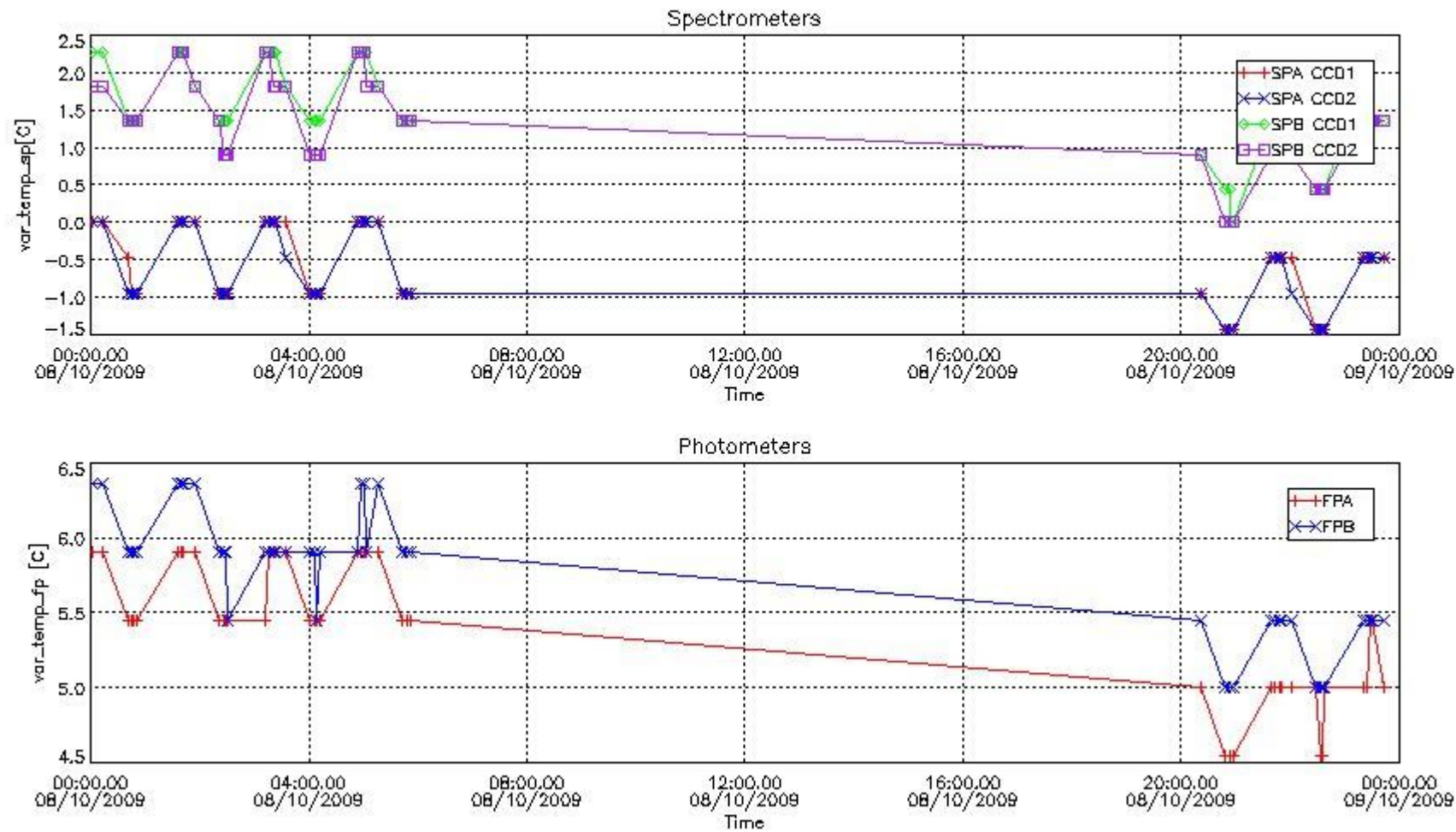
08-OCT-2009 09:55:04	15RhoPup	132	39769
08-OCT-2009 09:58:34	ZetPup	70	39769
08-OCT-2009 10:01:38	DSA1055	0	39770
08-OCT-2009 10:03:45	TauPup	161	39770
08-OCT-2009 10:05:09	AlpCar	2	39770
08-OCT-2009 10:17:22	The1Eri	157	39770
08-OCT-2009 10:44:13	43BetAnd	53	39770
08-OCT-2009 10:49:26	18AlpCas	68	39770
08-OCT-2009 10:50:51	27GamCas	76	39770
08-OCT-2009 10:53:47	23GamPer	160	39770
08-OCT-2009 11:35:41	15RhoPup	132	39770
08-OCT-2009 11:39:11	ZetPup	70	39770
08-OCT-2009 11:42:14	DSA1055	0	39771
08-OCT-2009 11:44:22	TauPup	161	39771
08-OCT-2009 11:45:45	AlpCar	2	39771
08-OCT-2009 11:57:59	The1Eri	157	39771
08-OCT-2009 12:24:49	43BetAnd	53	39771
08-OCT-2009 12:30:02	18AlpCas	68	39771
08-OCT-2009 12:31:26	27GamCas	76	39771
08-OCT-2009 12:34:22	23GamPer	160	39771
08-OCT-2009 13:16:18	15RhoPup	132	39771
08-OCT-2009 13:19:47	ZetPup	70	39771
08-OCT-2009 13:22:51	DSA1055	0	39772
08-OCT-2009 13:24:59	TauPup	161	39772
08-OCT-2009 13:26:22	AlpCar	2	39772
08-OCT-2009 13:38:35	The1Eri	157	39772
08-OCT-2009 14:05:24	43BetAnd	53	39772
08-OCT-2009 14:10:38	18AlpCas	68	39772
08-OCT-2009 14:12:02	27GamCas	76	39772
08-OCT-2009 14:14:57	23GamPer	160	39772
08-OCT-2009 14:56:55	15RhoPup	132	39772
08-OCT-2009 15:00:24	ZetPup	70	39772
08-OCT-2009 15:03:28	DSA1055	0	39773
08-OCT-2009 15:05:35	TauPup	161	39773
08-OCT-2009 15:06:59	AlpCar	2	39773
08-OCT-2009 15:19:12	The1Eri	157	39773
08-OCT-2009 15:46:00	43BetAnd	53	39773
08-OCT-2009 15:51:13	18AlpCas	68	39773
08-OCT-2009 15:52:38	27GamCas	76	39773
08-OCT-2009 15:55:32	23GamPer	160	39773
08-OCT-2009 16:37:32	15RhoPup	132	39773
08-OCT-2009 16:41:01	ZetPup	70	39773

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_1PNPDE20091008_000123_000000372083_00131_39764_9779.N1	08-OCT-2009 00:01:23	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39764	No
2	GOM_TRA_1PNPDE20091008_001338_000000382083_00131_39764_9780.N1	08-OCT-2009 00:13:38	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	39764	No
3	GOM_TRA_1PNPDE20091008_004035_000000382083_00131_39764_9781.N1	08-OCT-2009 00:40:35	Bright	38.000	53	43Bet And	2.0480	3300.0	76	39764	No
4	GOM_TRA_1PNPDE20091008_004547_000000332083_00131_39764_9782.N1	08-OCT-2009 00:45:47	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	39764	No
5	GOM_TRA_1PNPDE20091008_004712_000000342083_00131_39764_9783.N1	08-OCT-2009 00:47:12	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	39764	No
6	GOM_TRA_1PNPDE20091008_005011_000000422083_00131_39764_9784.N1	08-OCT-2009 00:50:11	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	39764	No
7	GOM_TRA_1PNPDE20091008_013525_000000352083_00131_39764_9797.N1	08-OCT-2009 01:35:25	Dark	35.000	70	Zet Pup	2.2460	39000.	70	39764	No
8	GOM_TRA_1PNPDE20091008_014036_000000362083_00132_39765_9798.N1	08-OCT-2009 01:40:36	Dark	36.000	161	Tau Pup	2.9310	4500.0	72	39765	No
9	GOM_TRA_1PNPDE20091008_014200_000000372083_00132_39765_9799.N1	08-OCT-2009 01:42:00	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39765	No
10	GOM_TRA_1PNPDE20091008_015414_000000382083_00132_39765_9800.N1	08-OCT-2009 01:54:14	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	39765	No
11	GOM_TRA_1PNPDE20091008_022110_000000382083_00132_39765_9801.N1	08-OCT-2009 02:21:10	Bright	38.000	53	43Bet And	2.0480	3300.0	76	39765	No
12	GOM_TRA_1PNPDE20091008_022623_000000332083_00132_39765_9802.N1	08-OCT-2009 02:26:23	Bright	32.500	68	18Alp Cas	2.2250	4500.0	65	39765	No

13	GOM_TRA_1PNPDE20091008_022747_000000332083_00132_39765_9803.N1	08-OCT-2009 02:27:47	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39765	No
14	GOM_TRA_1PNPDE20091008_023046_000000422083_00132_39765_9804.N1	08-OCT-2009 02:30:46	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	39765	No
15	GOM_TRA_1PNPDE20091008_031231_000000392083_00132_39765_9823.N1	08-OCT-2009 03:12:31	Dark	38.500	132	15Rho Pup	2.8030	6900.0	77	39765	No
16	GOM_TRA_1PNPDE20091008_031602_000000352083_00132_39765_9824.N1	08-OCT-2009 03:16:02	Dark	35.000	70	Zet Pup	2.2460	39000.	70	39765	No
17	GOM_TRA_1PNPDE20091008_032113_000000372083_00133_39766_9825.N1	08-OCT-2009 03:21:13	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39766	No
18	GOM_TRA_1PNPDE20091008_032236_000000372083_00133_39766_9826.N1	08-OCT-2009 03:22:36	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39766	No
19	GOM_TRA_1PNPDE20091008_033451_000000382083_00133_39766_9827.N1	08-OCT-2009 03:34:51	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	39766	No
20	GOM_TRA_1PNPDE20091008_040146_000000382083_00133_39766_9828.N1	08-OCT-2009 04:01:46	Bright	37.500	53	43Bet And	2.0480	3300.0	75	39766	No
21	GOM_TRA_1PNPDE20091008_040658_000000332083_00133_39766_9829.N1	08-OCT-2009 04:06:58	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	39766	No
22	GOM_TRA_1PNPDE20091008_040823_000000332083_00133_39766_9830.N1	08-OCT-2009 04:08:23	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39766	No
23	GOM_TRA_1PNPDE20091008_041121_000000422083_00133_39766_9831.N1	08-OCT-2009 04:11:21	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39766	No
24	GOM_TRA_1PNPDE20091008_045308_000000392083_00133_39766_9835.N1	08-OCT-2009 04:53:08	Dark	38.500	132	15Rho Pup	2.8030	6900.0	77	39766	No
25	GOM_TRA_1PNPDE20091008_045638_000000362083_00133_39766_9836.N1	08-OCT-2009 04:56:38	Dark	35.500	70	Zet Pup	2.2460	39000.	71	39766	No
26	GOM_TRA_1PNPDE20091008_050149_000000362083_00134_39767_9837.N1	08-OCT-2009 05:01:49	Dark	36.000	161	Tau Pup	2.9310	4500.0	72	39767	No
27	GOM_TRA_1PNPDE20091008_050313_000000372083_00134_39767_9838.N1	08-OCT-2009 05:03:13	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39767	No
28	GOM_TRA_1PNPDE20091008_051527_000000382083_00134_39767_9839.N1	08-OCT-2009 05:15:27	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	39767	No
29	GOM_TRA_1PNPDE20091008_054222_000000382083_00134_39767_9840.N1	08-OCT-2009 05:42:22	Bright	37.500	53	43Bet And	2.0480	3300.0	75	39767	No
30	GOM_TRA_1PNPDE20091008_054734_000000332083_00134_39767_9841.N1	08-OCT-2009 05:47:34	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	39767	No
31	GOM_TRA_1PNPDE20091008_054900_000000322083_00134_39767_9842.N1	08-OCT-2009 05:49:00	Bright	31.500	76	27Gam Cas	2.3000	30000.	63	39767	No
32	GOM_TRA_1PNPDE20091008_055156_000000422083_00134_39767_9843.N1	08-OCT-2009 05:51:56	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	39767	No
33	GOM_TRA_1PNPDE20091008_202056_000000382083_00143_39776_9954.N1	08-OCT-2009 20:20:56	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	39776	No
34	GOM_TRA_1PNPDE20091008_204741_000000382083_00143_39776_9955.N1	08-OCT-2009 20:47:41	Bright	38.000	53	43Bet And	2.0480	3300.0	76	39776	No
35	GOM_TRA_1PNPDE20091008_205255_000000332083_00143_39776_9956.N1	08-OCT-2009 20:52:55	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	39776	No
36	GOM_TRA_1PNPDE20091008_205419_000000342083_00143_39776_9957.N1	08-OCT-2009 20:54:19	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	39776	No
37	GOM_TRA_1PNPDE20091008_205712_000000422083_00143_39776_9958.N1	08-OCT-2009 20:57:12	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	39776	No
38	GOM_TRA_1PNPDE20091008_213918_000000402083_00143_39776_9980.N1	08-OCT-2009 21:39:18	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	39776	No
39	GOM_TRA_1PNPDE20091008_214246_000000362083_00143_39776_9981.N1	08-OCT-2009 21:42:46	Dark	35.500	70	Zet Pup	2.2460	39000.	71	39776	No
40	GOM_TRA_1PNPDE20091008_214757_000000372083_00144_39777_9982.N1	08-OCT-2009 21:47:57	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39777	No
41	GOM_TRA_1PNPDE20091008_214921_000000372083_00144_39777_9983.N1	08-OCT-2009 21:49:21	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39777	No
42	GOM_TRA_1PNPDE20091008_220133_000000382083_00144_39777_9984.N1	08-OCT-2009 22:01:33	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	39777	No
43	GOM_TRA_1PNPDE20091008_222816_000000382083_00144_39777_9985.N1	08-OCT-2009 22:28:16	Bright	37.500	53	43Bet And	2.0480	3300.0	75	39777	No
44	GOM_TRA_1PNPDE20091008_223331_000000332083_00144_39777_9986.N1	08-OCT-2009 22:33:31	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	39777	No
45	GOM_TRA_1PNPDE20091008_223455_000000342083_00144_39777_9987.N1	08-OCT-2009 22:34:55	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	39777	No
46	GOM_TRA_1PNPDE20091008_223747_000000422083_00144_39777_9988.N1	08-OCT-2009 22:37:47	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39777	No
47	GOM_TRA_1PNPDE20091008_231955_000000402083_00144_39777_0001.N1	08-OCT-2009 23:19:55	Dark	39.500	132	15Rho Pup	2.8030	6900.0	79	39777	No
48	GOM_TRA_1PNPDE20091008_232322_000000362083_00144_39777_0002.N1	08-OCT-2009 23:23:22	Dark	36.000	70	Zet Pup	2.2460	39000.	72	39777	No
49	GOM_TRA_1PNPDE20091008_232834_000000372083_00145_39778_0003.N1	08-OCT-2009 23:28:34	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39778	No
50	GOM_TRA_1PNPDE20091008_232957_000000372083_00145_39778_0004.N1	08-OCT-2009 23:29:57	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39778	No
51	GOM_TRA_1PNPDE20091008_234209_000000382083_00145_39778_0005.N1	08-OCT-2009 23:42:09	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	39778	No

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



4. Overview of dark signal processing per product

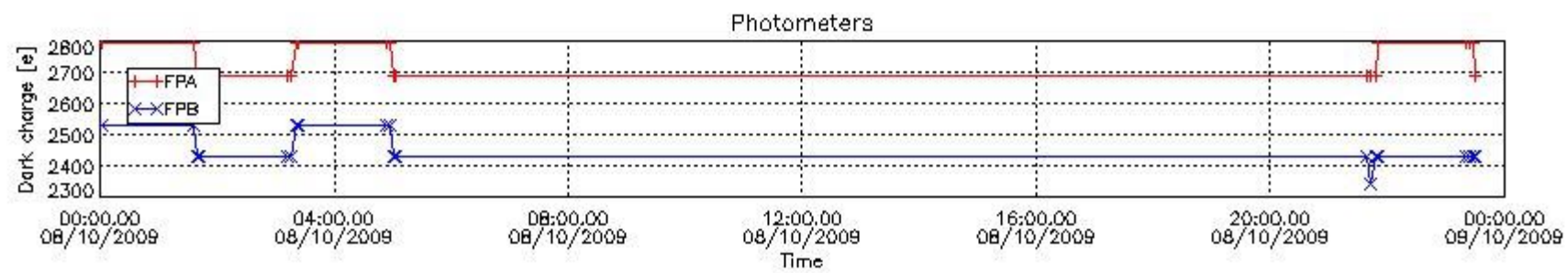
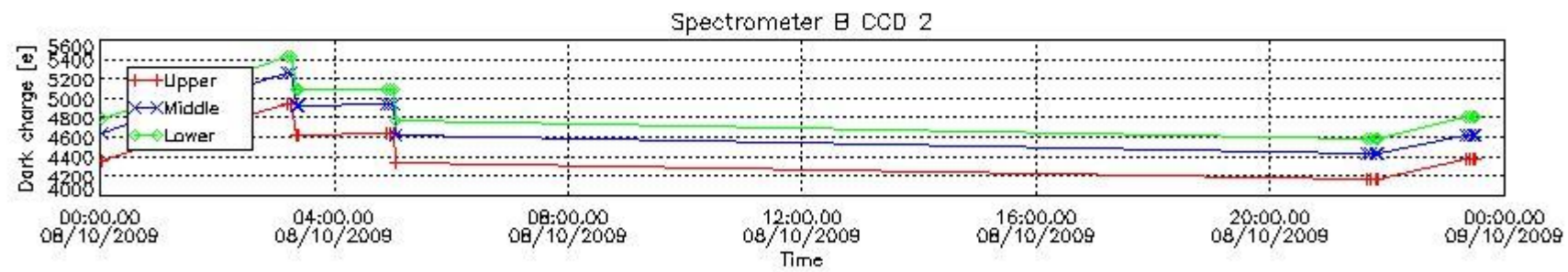
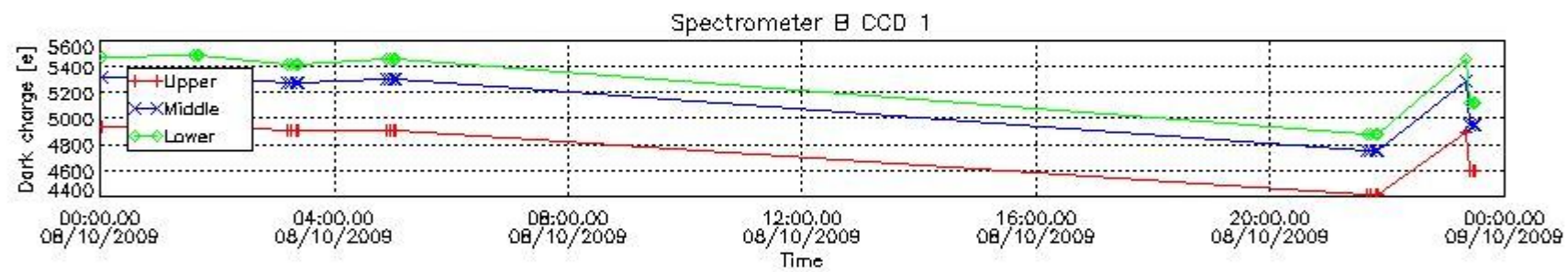
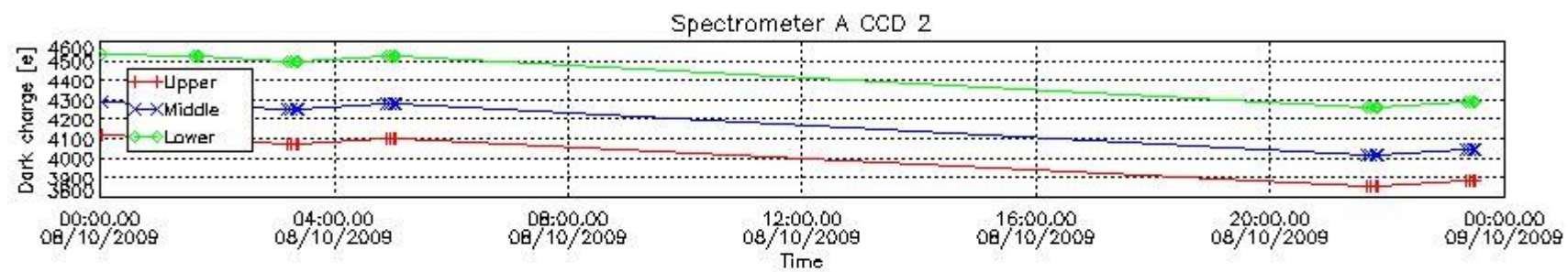
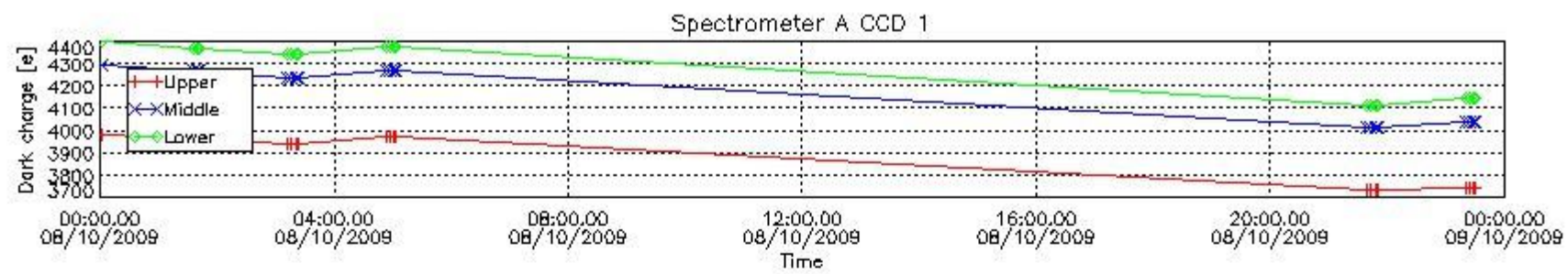
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091008_202056_000000382083_00143_39776_9954.N1	DC map used
GOM_TRA_1PNPDE20091008_204741_000000382083_00143_39776_9955.N1	DC map used
GOM_TRA_1PNPDE20091008_205255_000000332083_00143_39776_9956.N1	DC map used
GOM_TRA_1PNPDE20091008_205419_000000342083_00143_39776_9957.N1	DC map used
GOM_TRA_1PNPDE20091008_205712_000000422083_00143_39776_9958.N1	DC map used

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



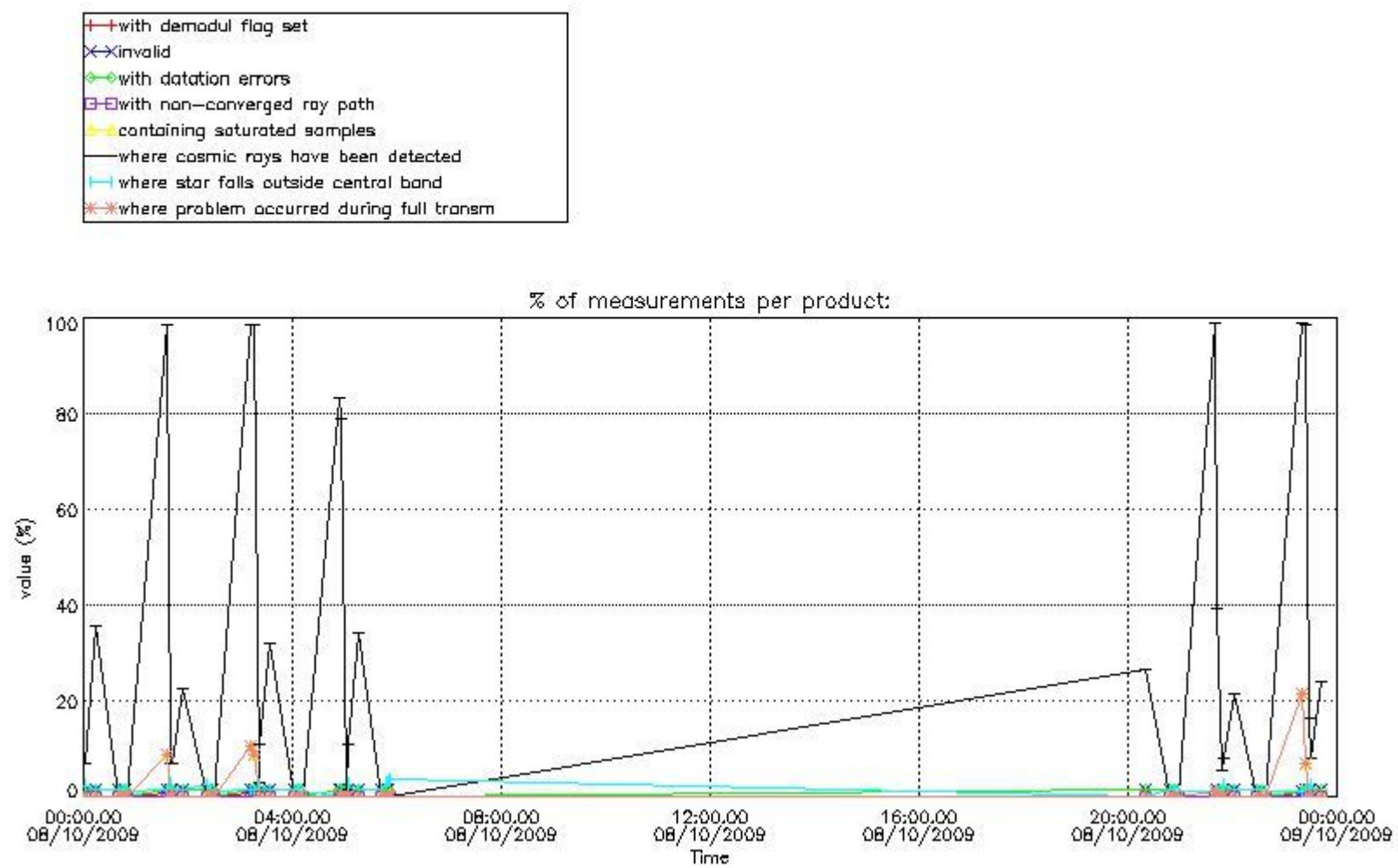
5. Demodulation flag and quality information monitoring

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.

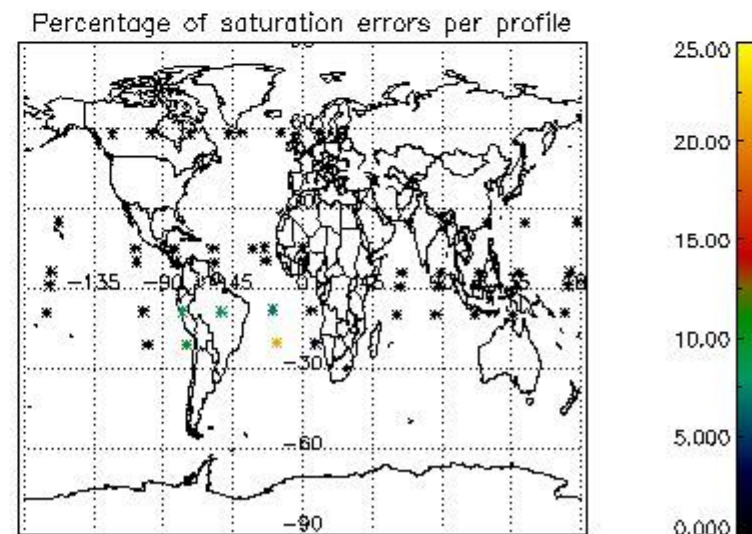
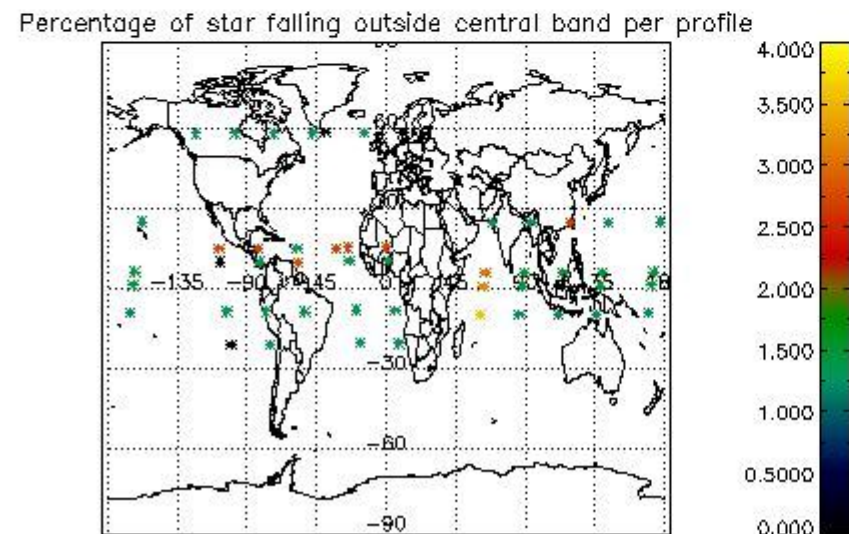
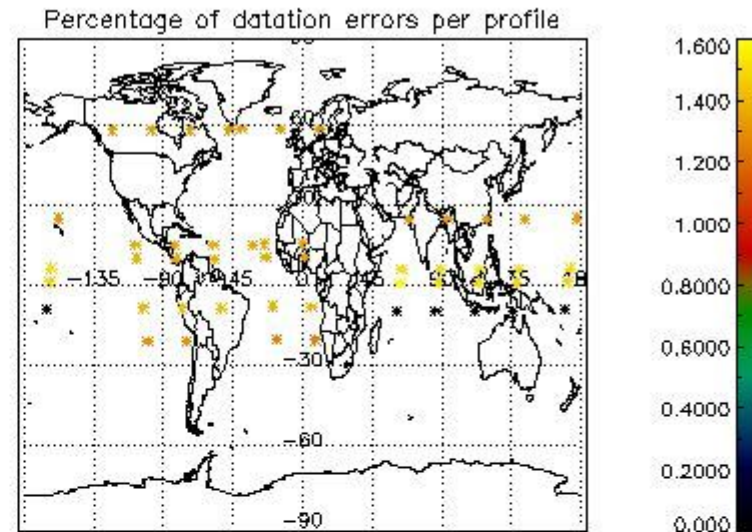
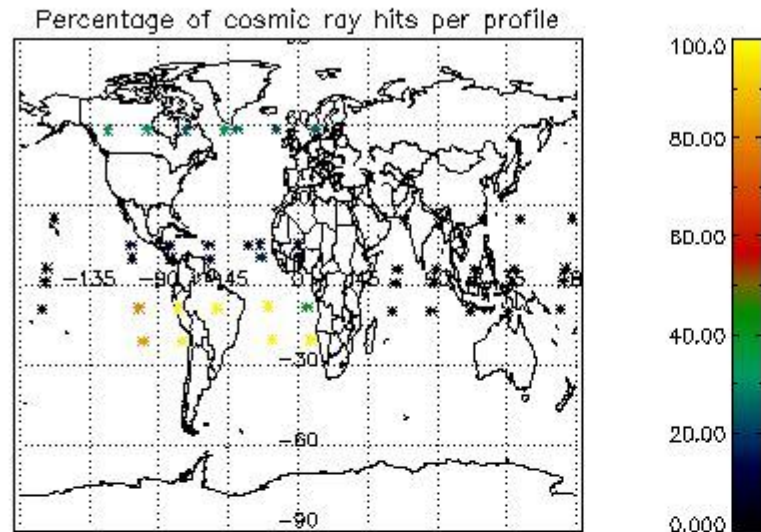
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.2549 %
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)



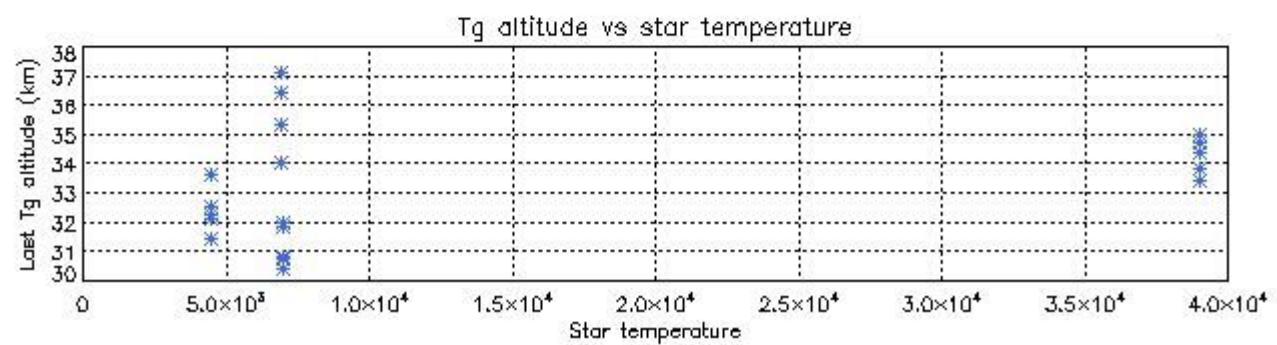
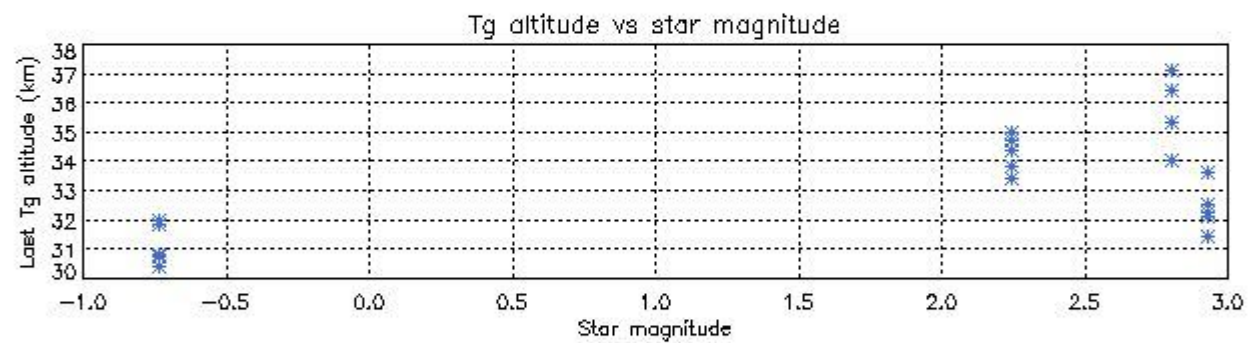
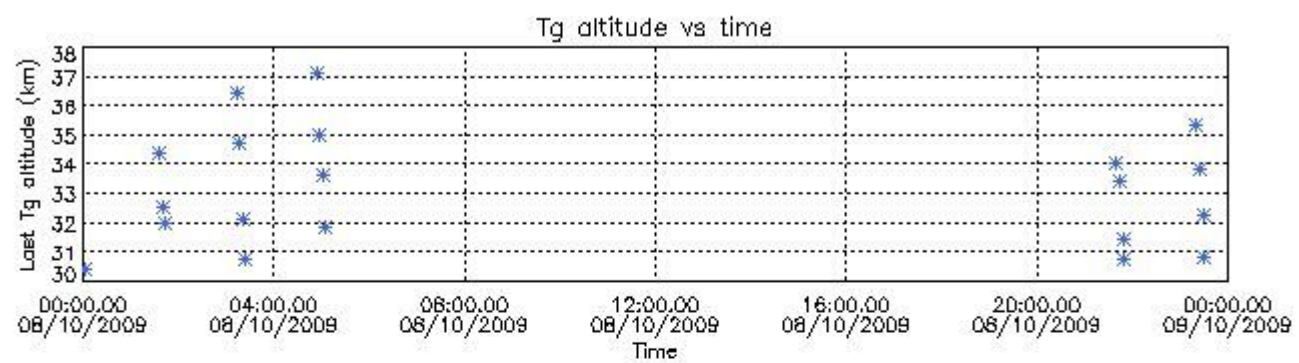
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	33.143	34.793	NaN
St. deviation:	1.9581	2.1801	NaN
Maximum:	37.114	38.862	NaN
Minimum:	30.419	31.067	NaN
Number of data:	20.000	24.000	NaN

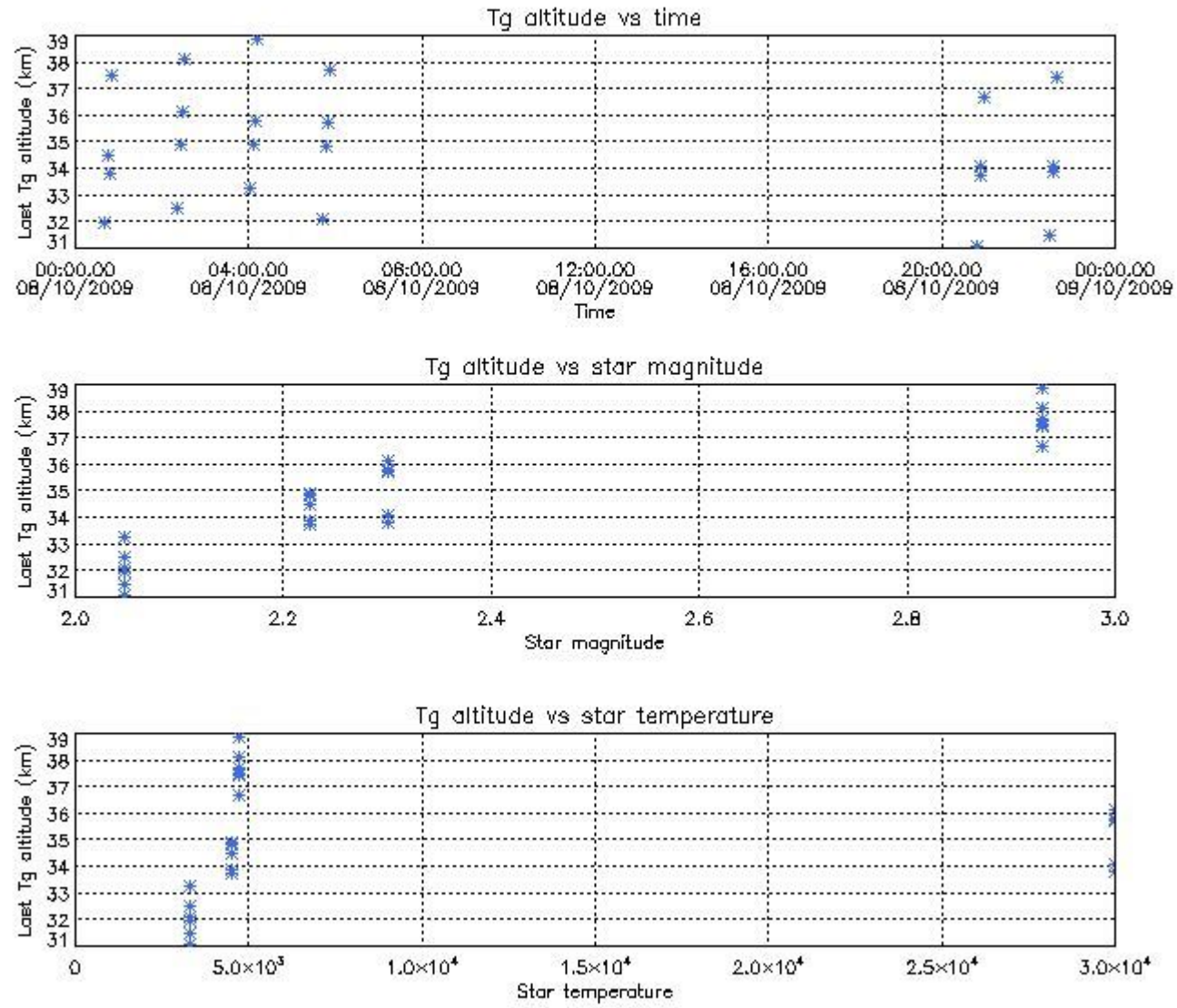
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

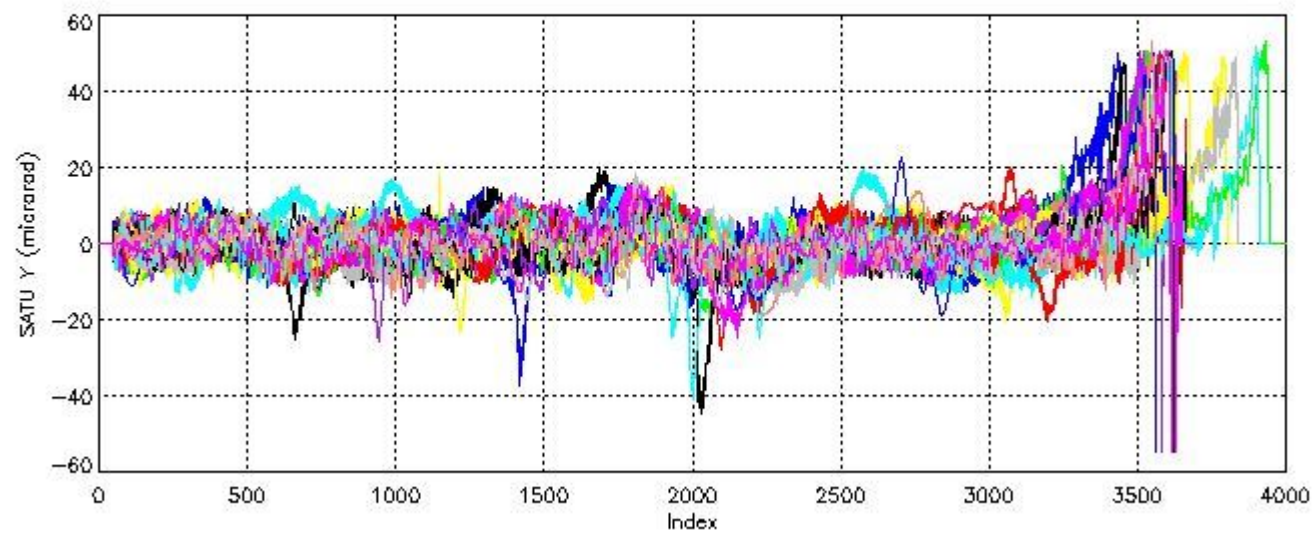
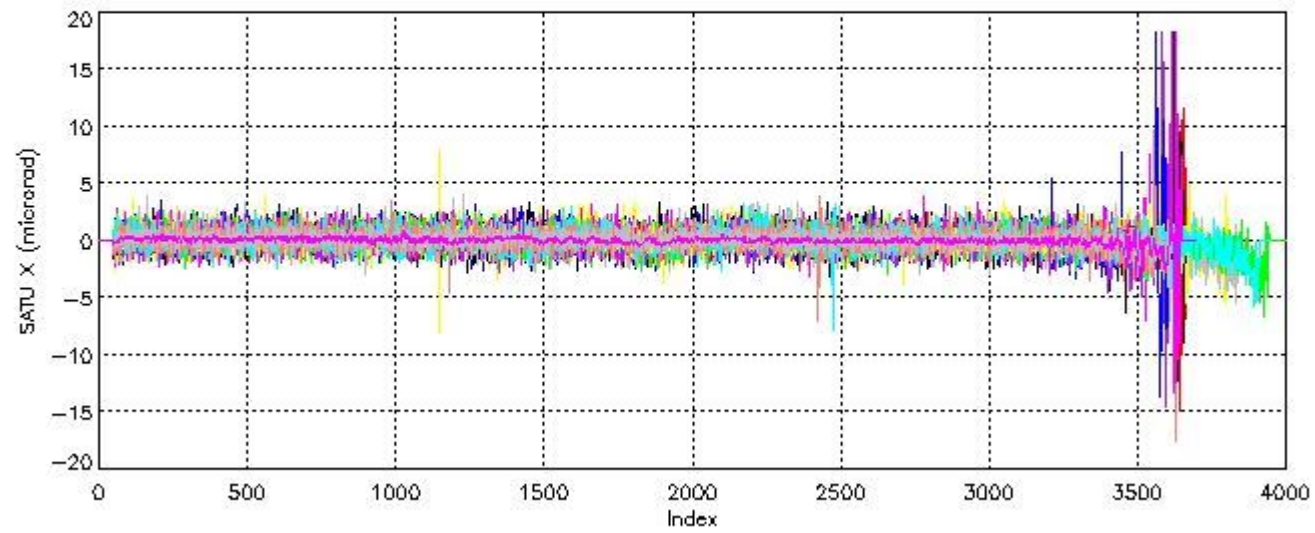


7. Star Acquisition and Tracking Unit (SATU)

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:	0.18030	0.019632	0.25467	-0.40758
St. deviation:	0.56592	4.1577	0.66570	4.2115
Maximum:	3.9000	16.600	4.0000	18.800
Minimum:	-2.9000	-25.600	-3.8000	-18.400

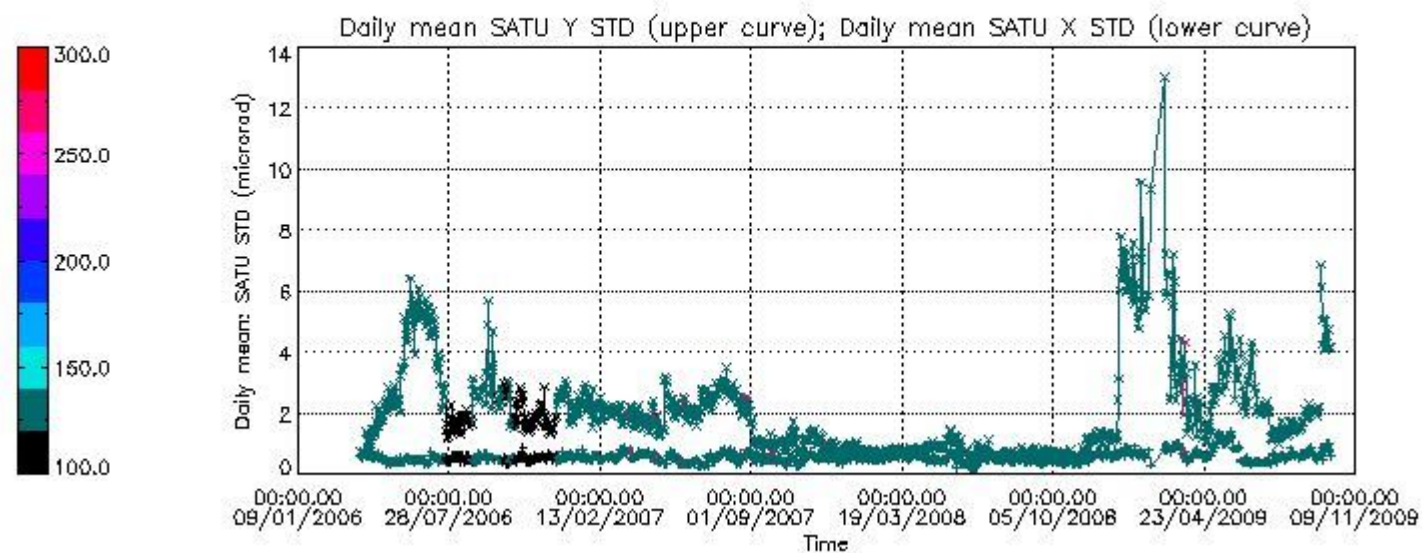
Number of data:	20600.	20600.	25000.	25000.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

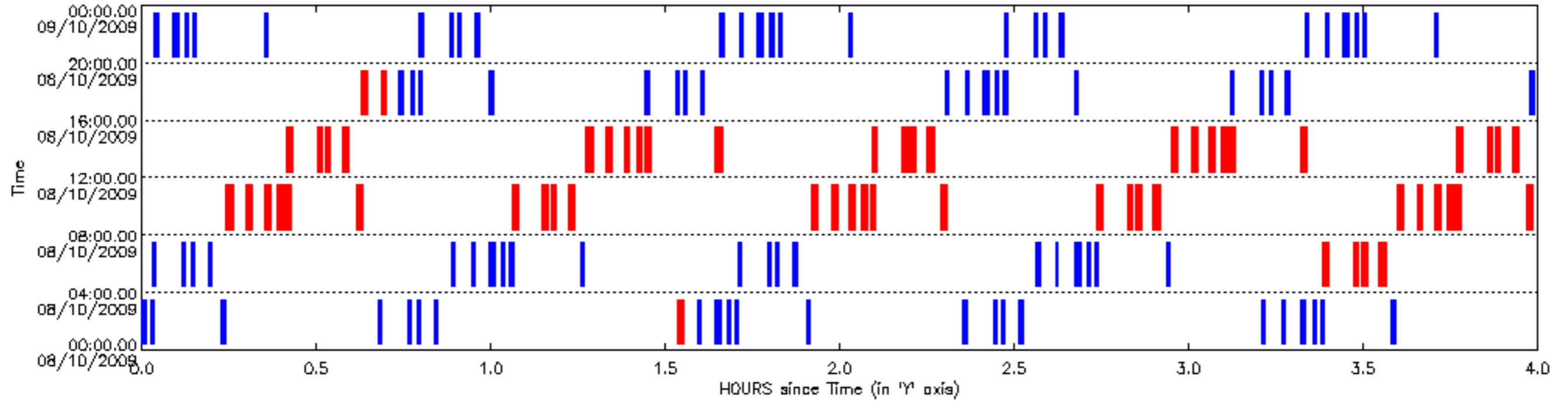
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

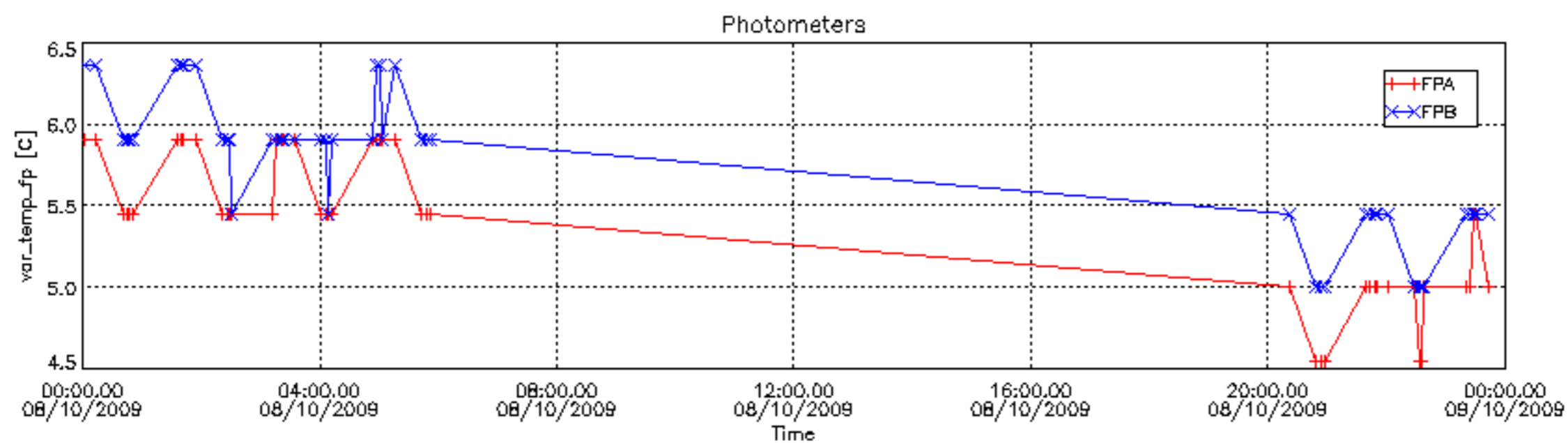
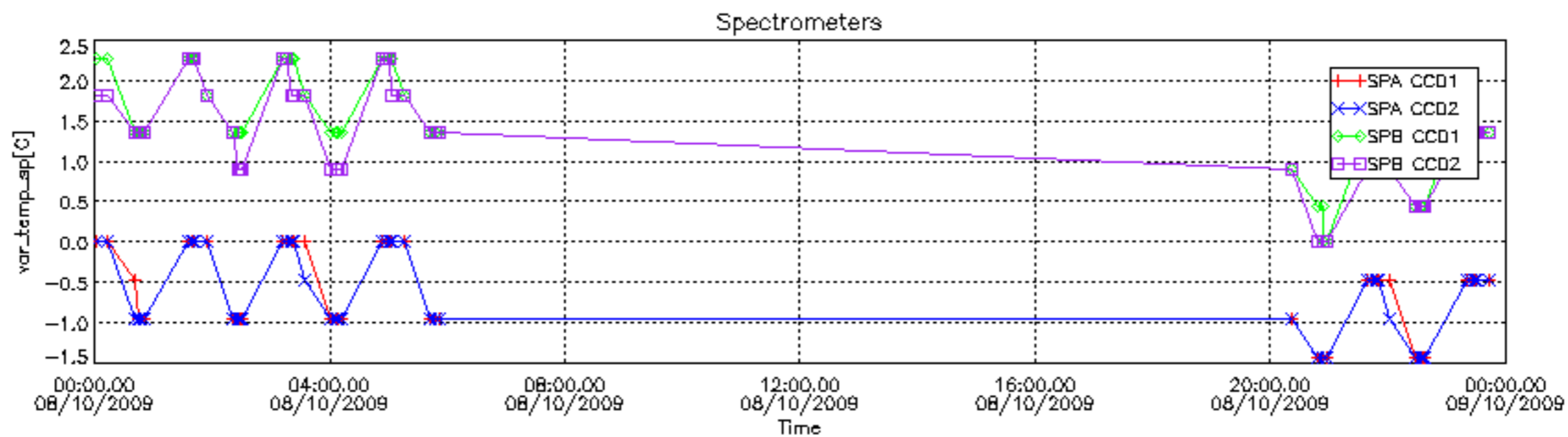


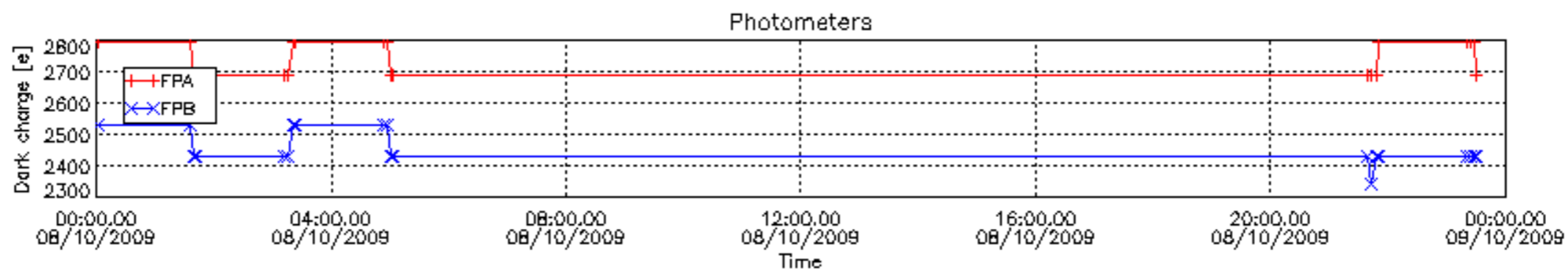
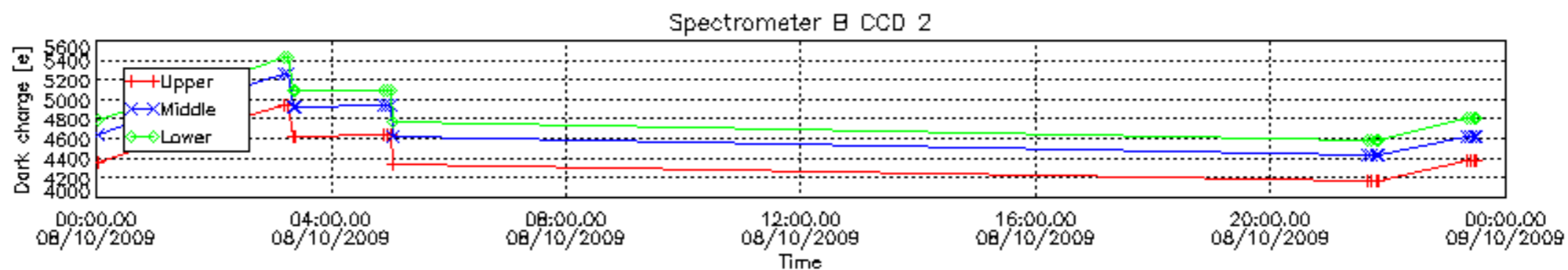
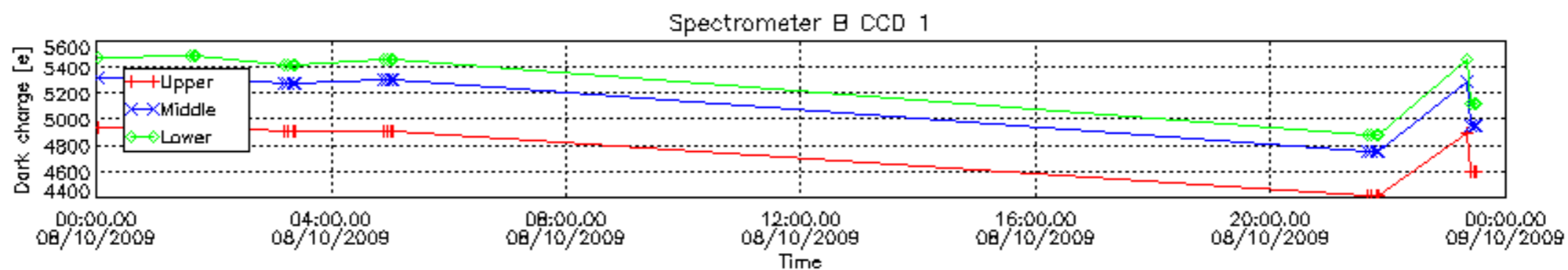
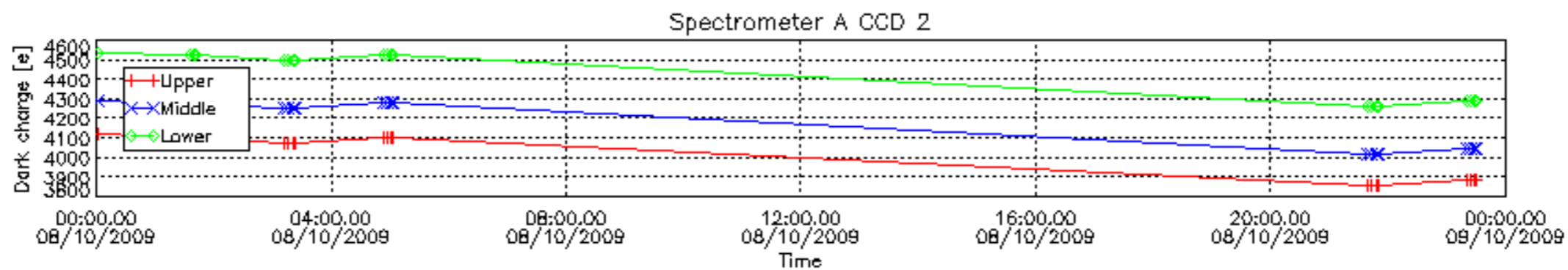
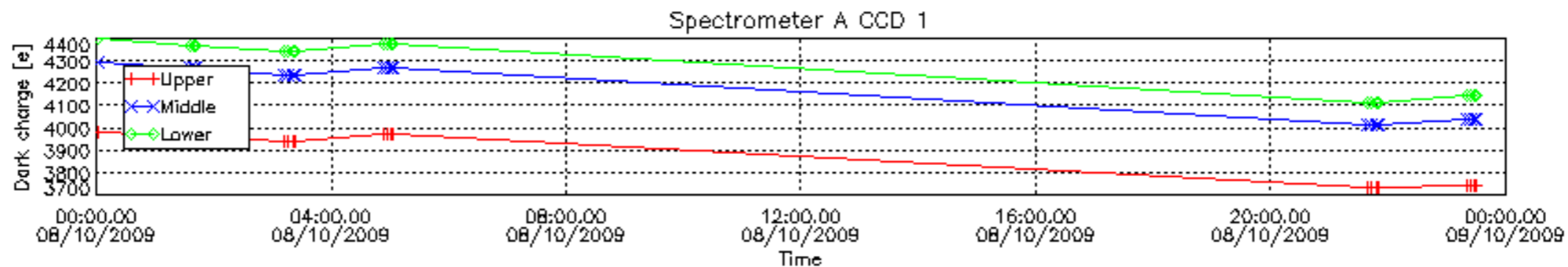
8. Auxiliary Data Files used for the production reported in section 2.4

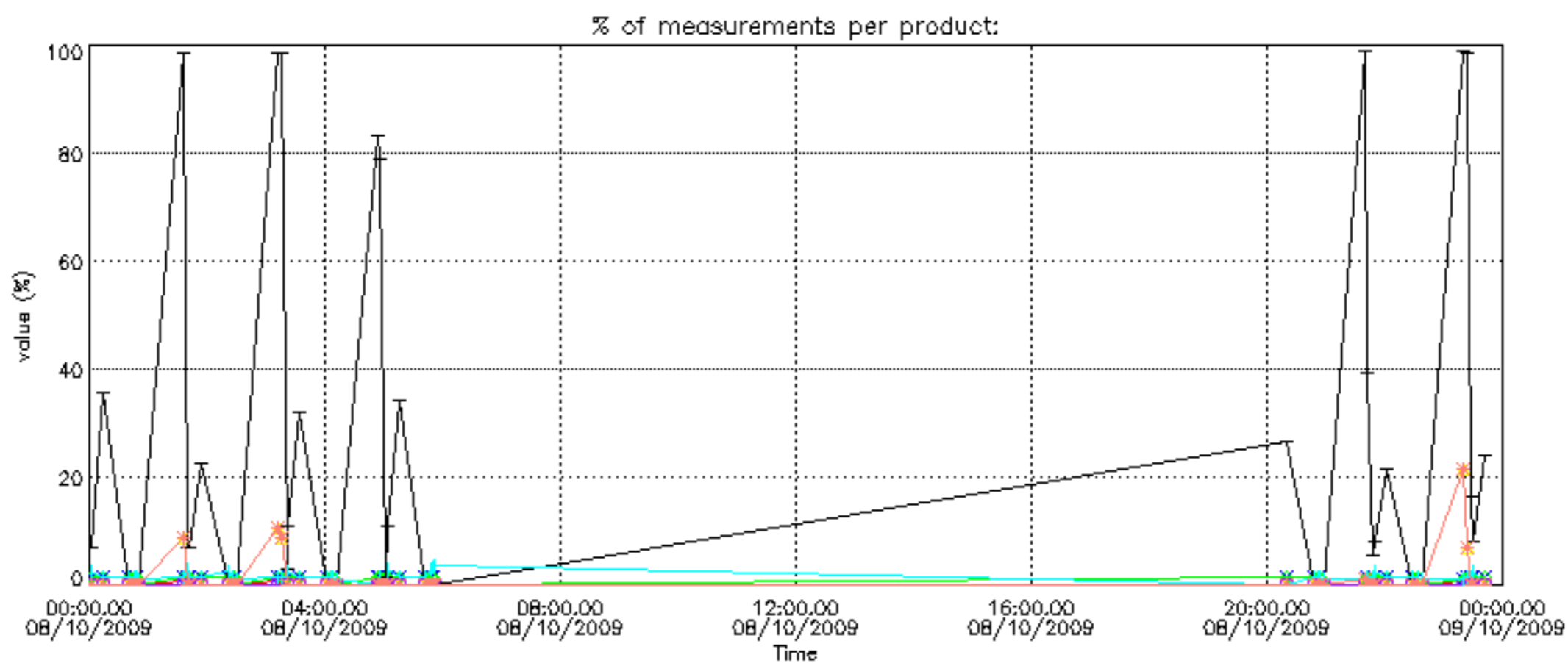
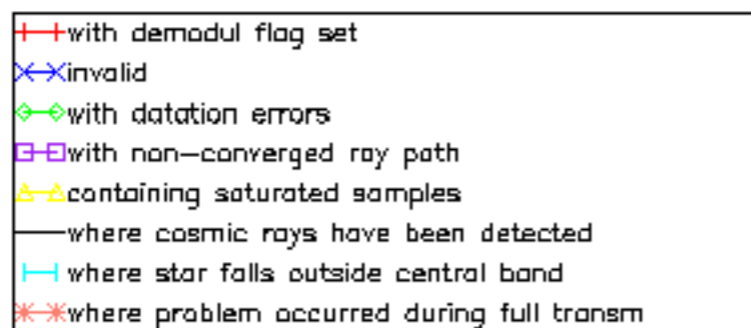
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091007_100119_20091005_000000_20100101_000000	1	08-OCT-2009 00:01:23
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-OCT-2009 00:01:23
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-OCT-2009 00:01:23
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-OCT-2009 00:01:23
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ECMWF_FILE	AUX_ECF_AXNECM20091007_182113_20091008_030000_20091008_150000	15	08-OCT-2009 03:12:31
ECMWF_FILE	AUX_ECA_AXNECM20091008_180112_20091008_090000_20091008_210000	33	08-OCT-2009 20:20:56
ECMWF_FILE	AUX_ECF_AXNECM20091008_062112_20091008_210000_20091009_090000	38	08-OCT-2009 21:39:18
OPTIONAL_ECMWF_FILE	MISSING	1	08-OCT-2009 00:01:23
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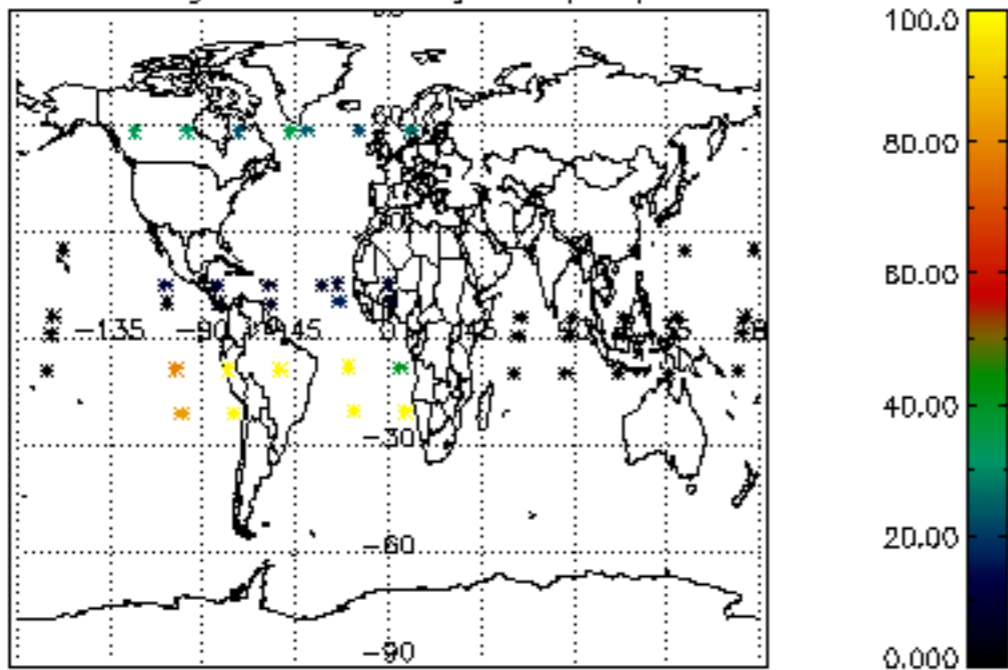




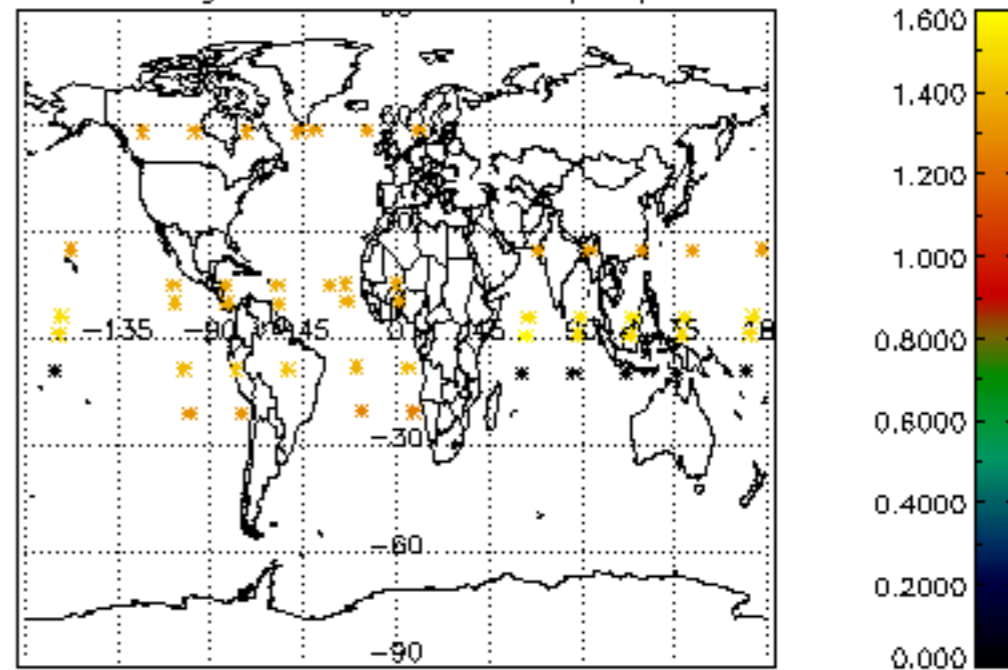




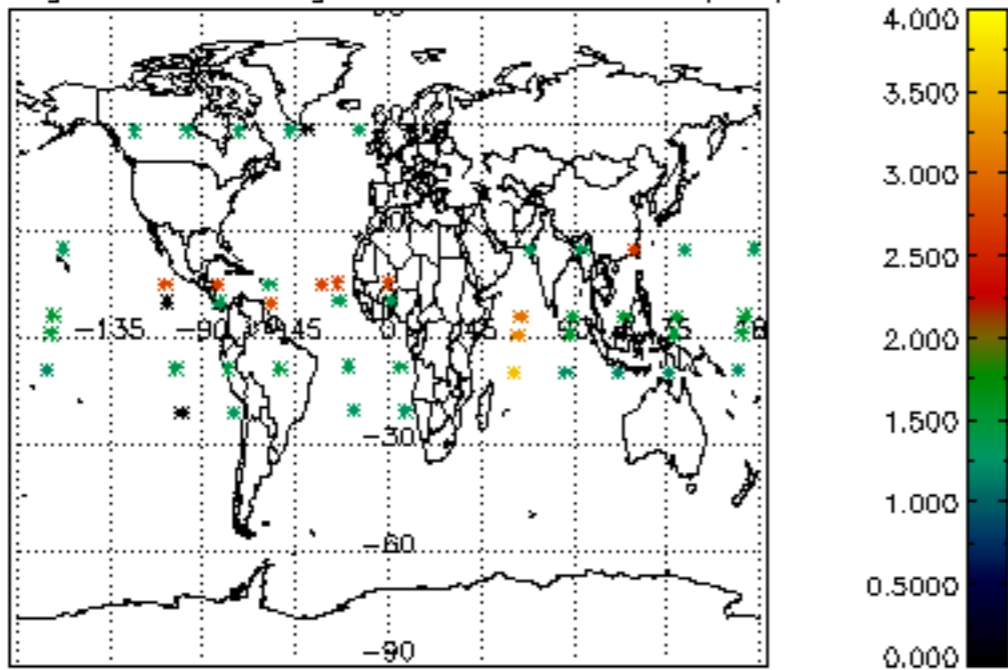
Percentage of cosmic ray hits per profile



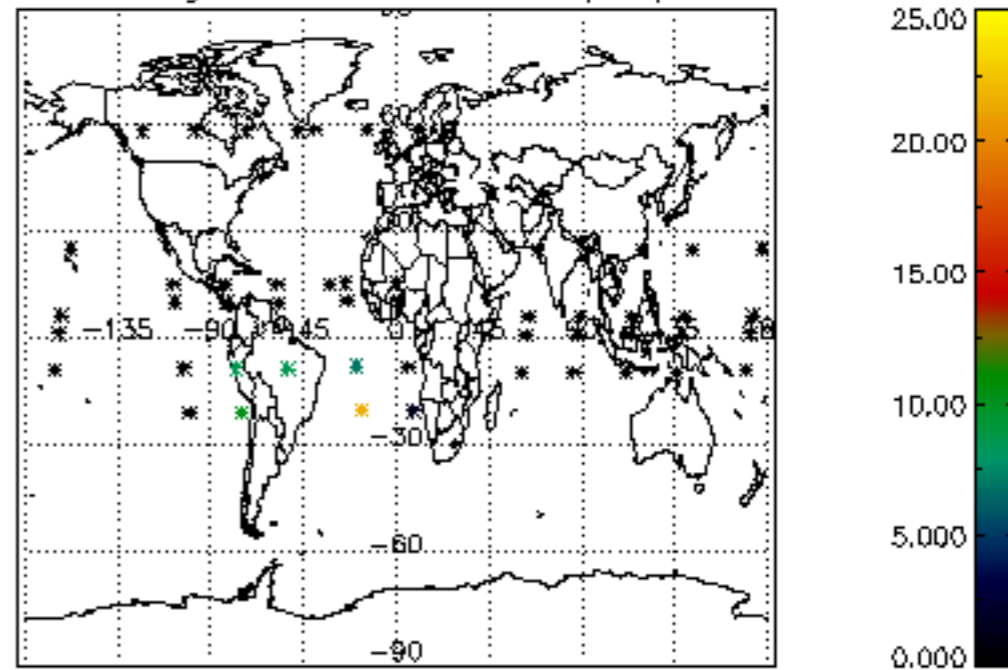
Percentage of datation errors per profile



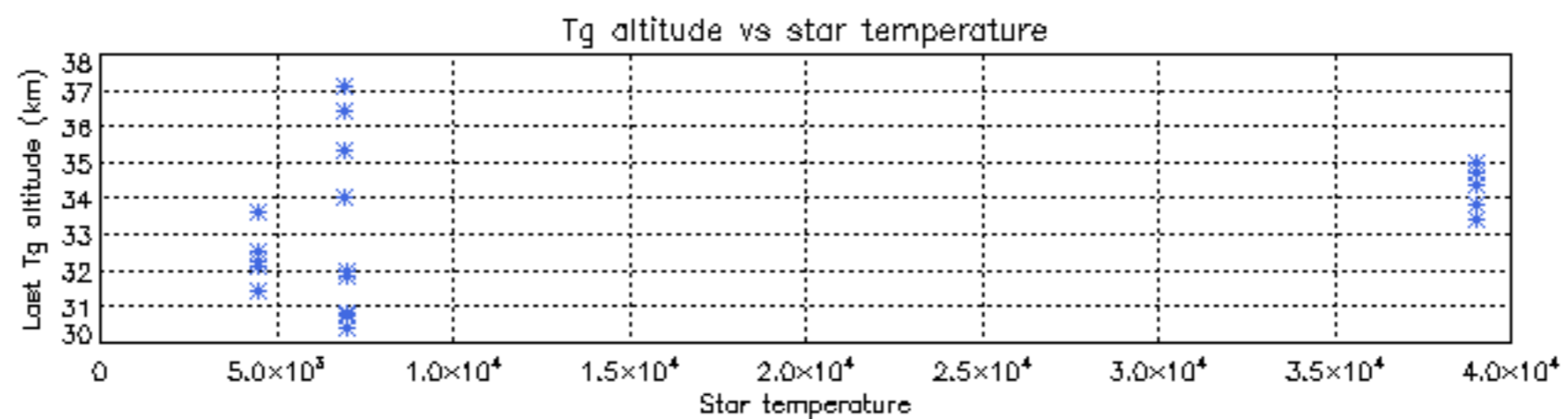
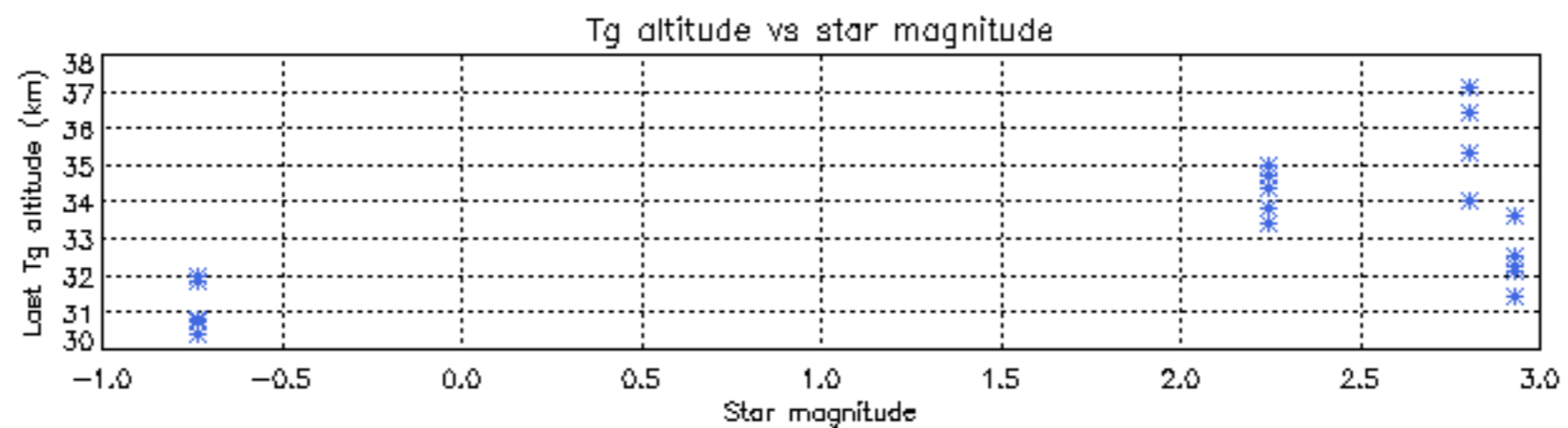
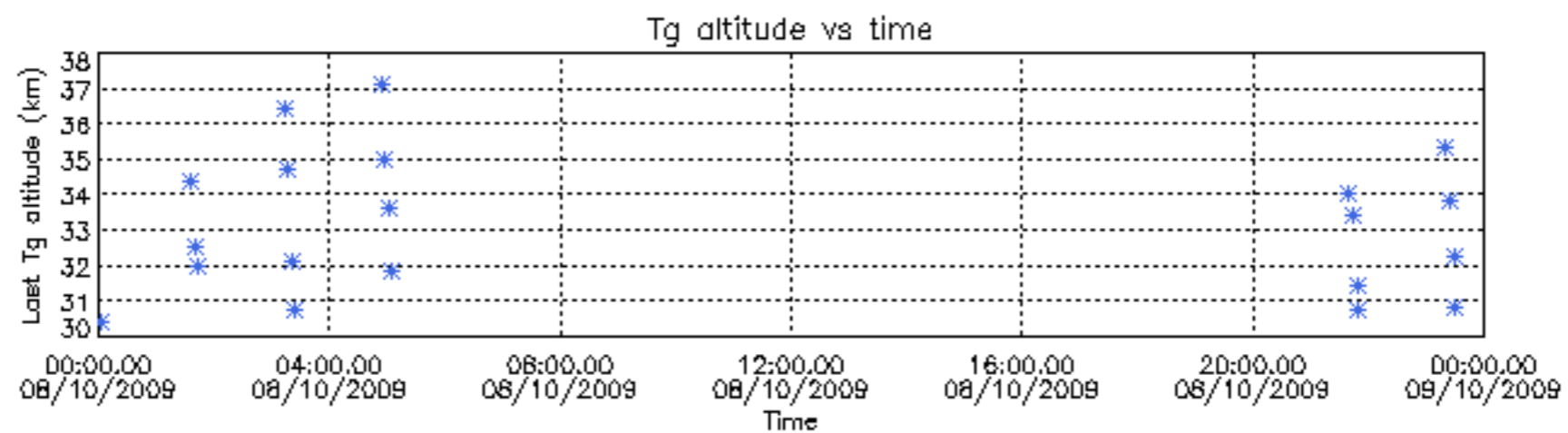
Percentage of star falling outside central band per profile



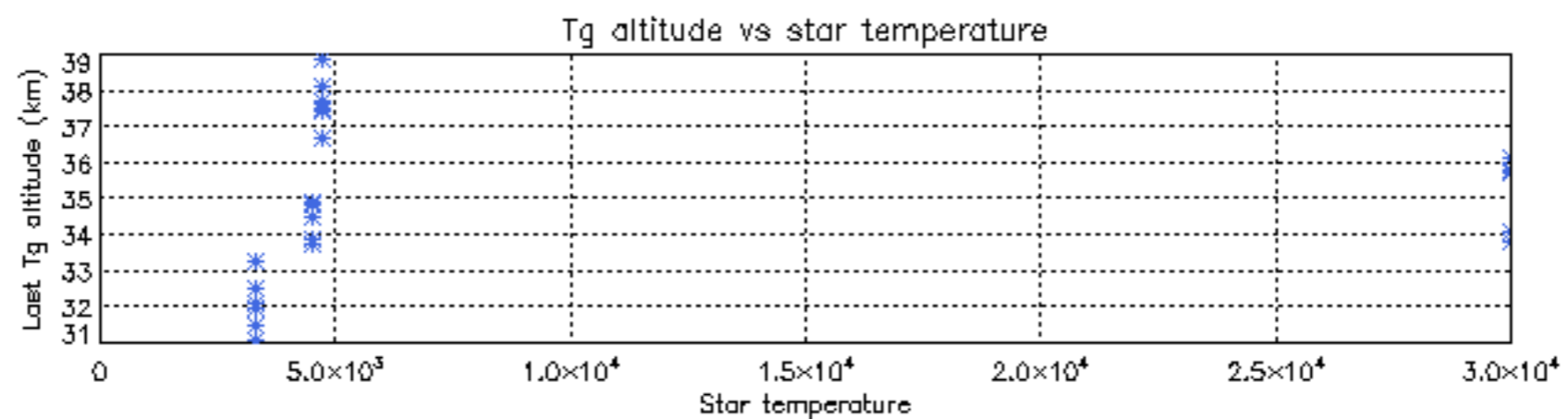
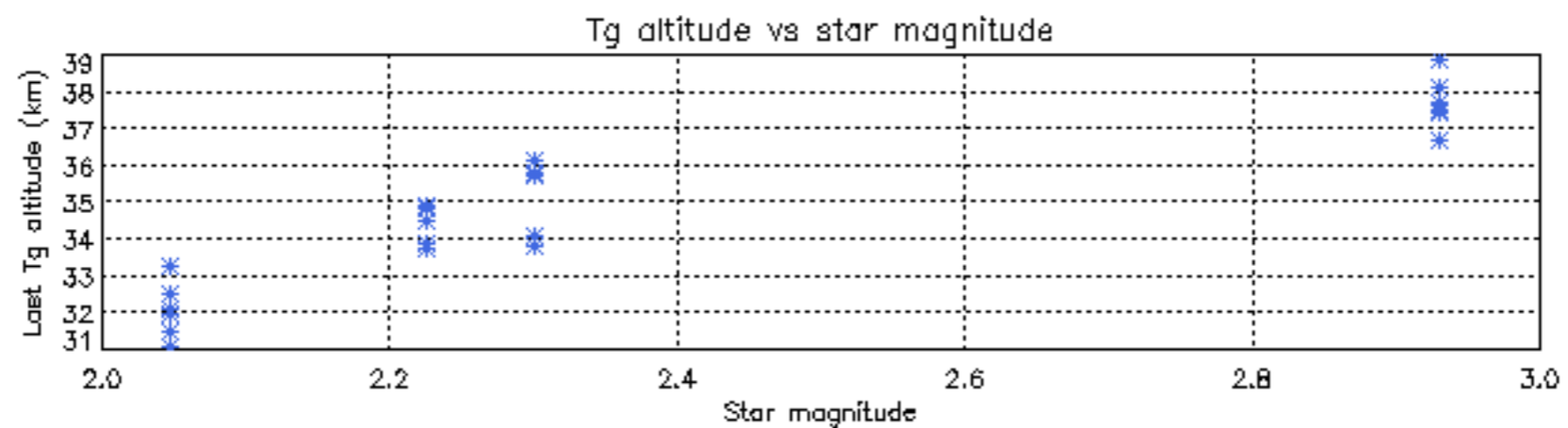
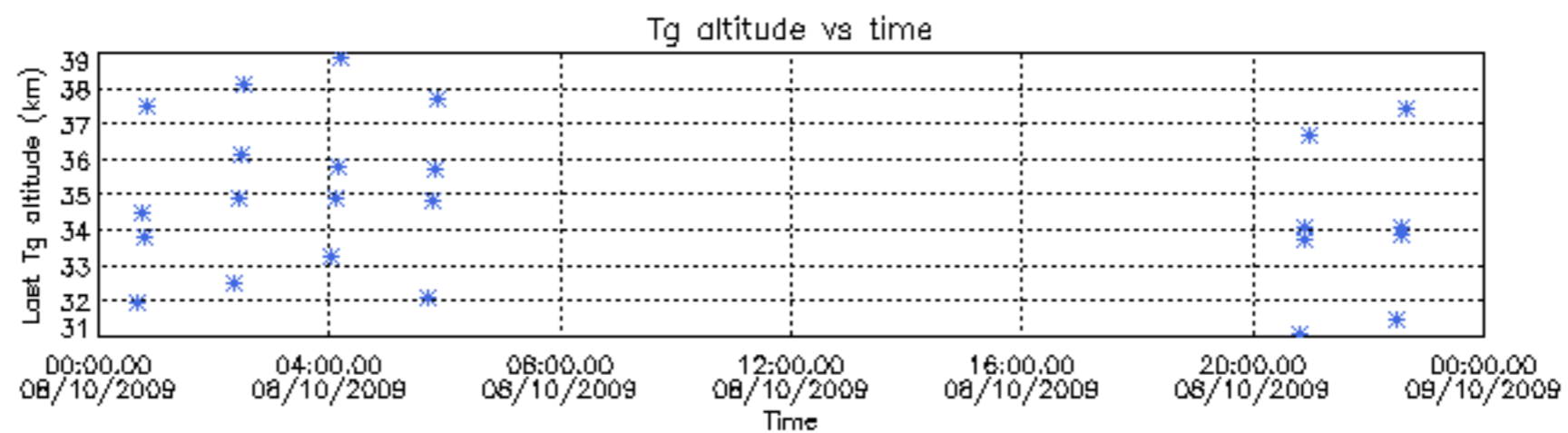
Percentage of saturation errors per profile

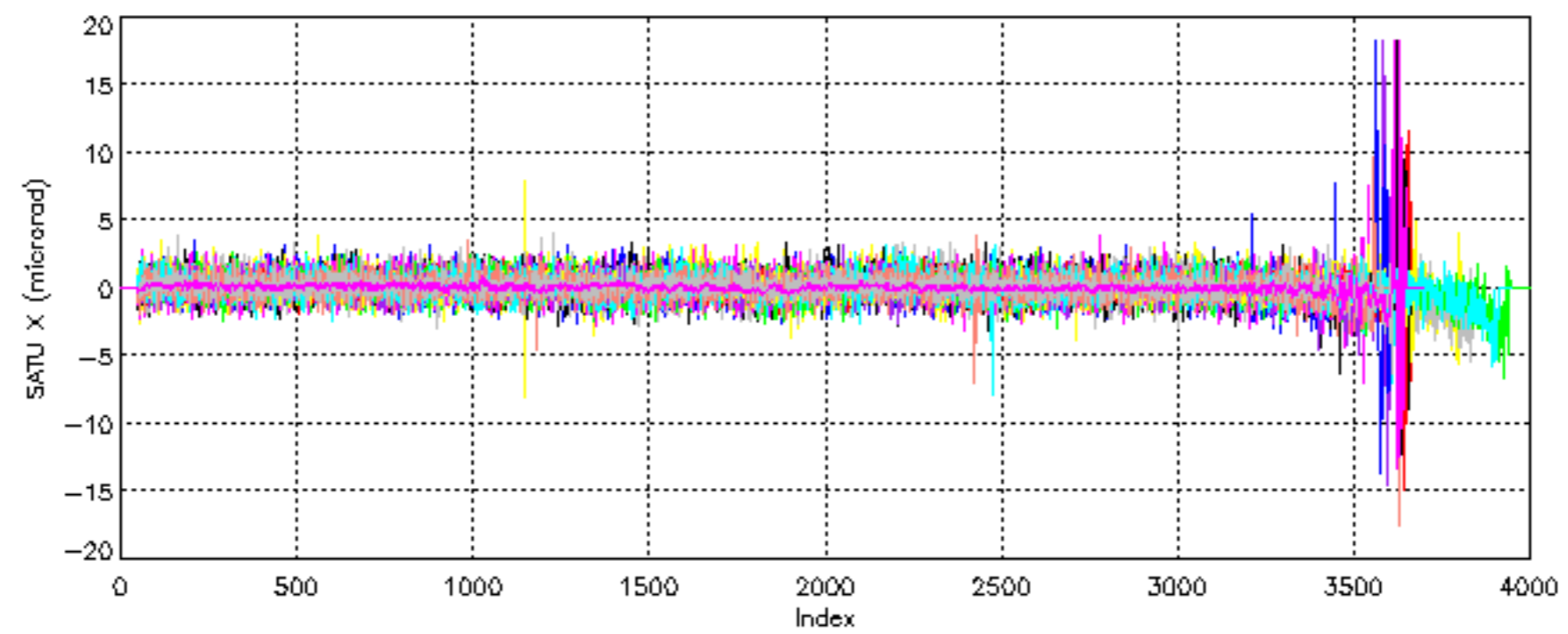


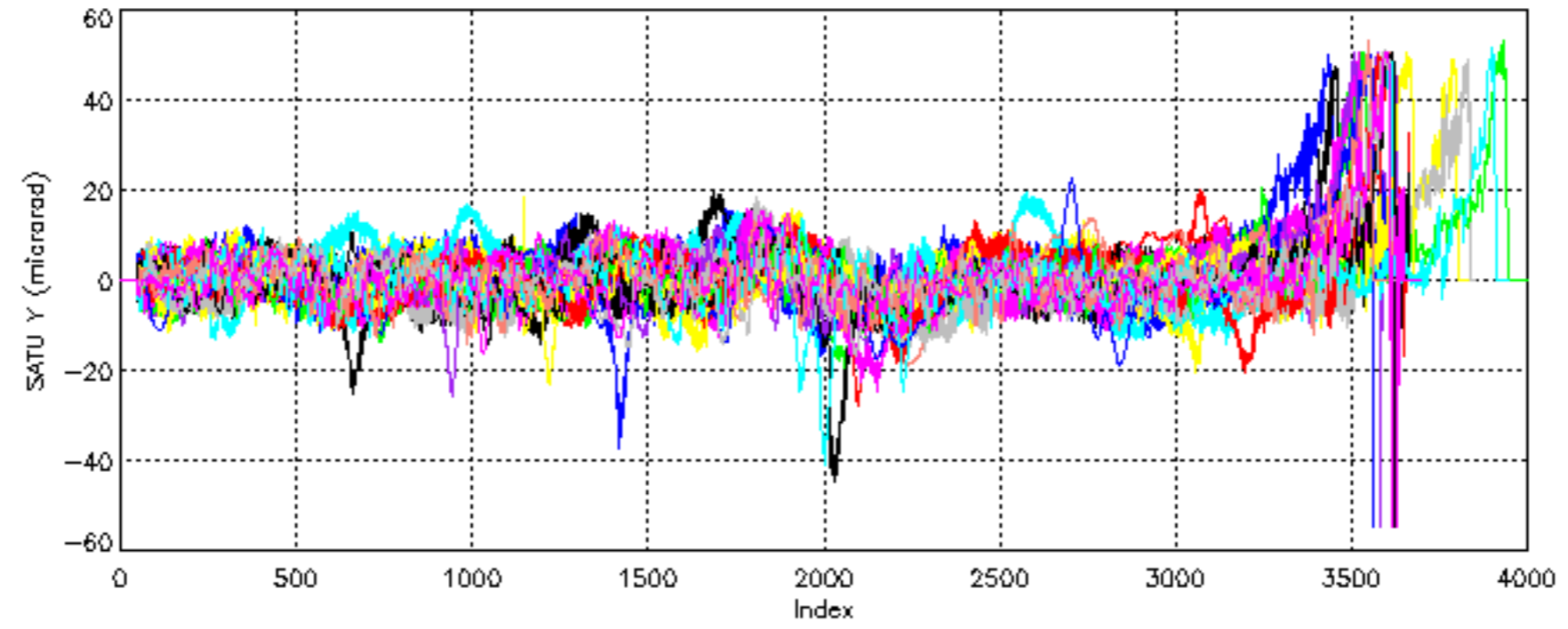
Tangent altitude at which the star is lost

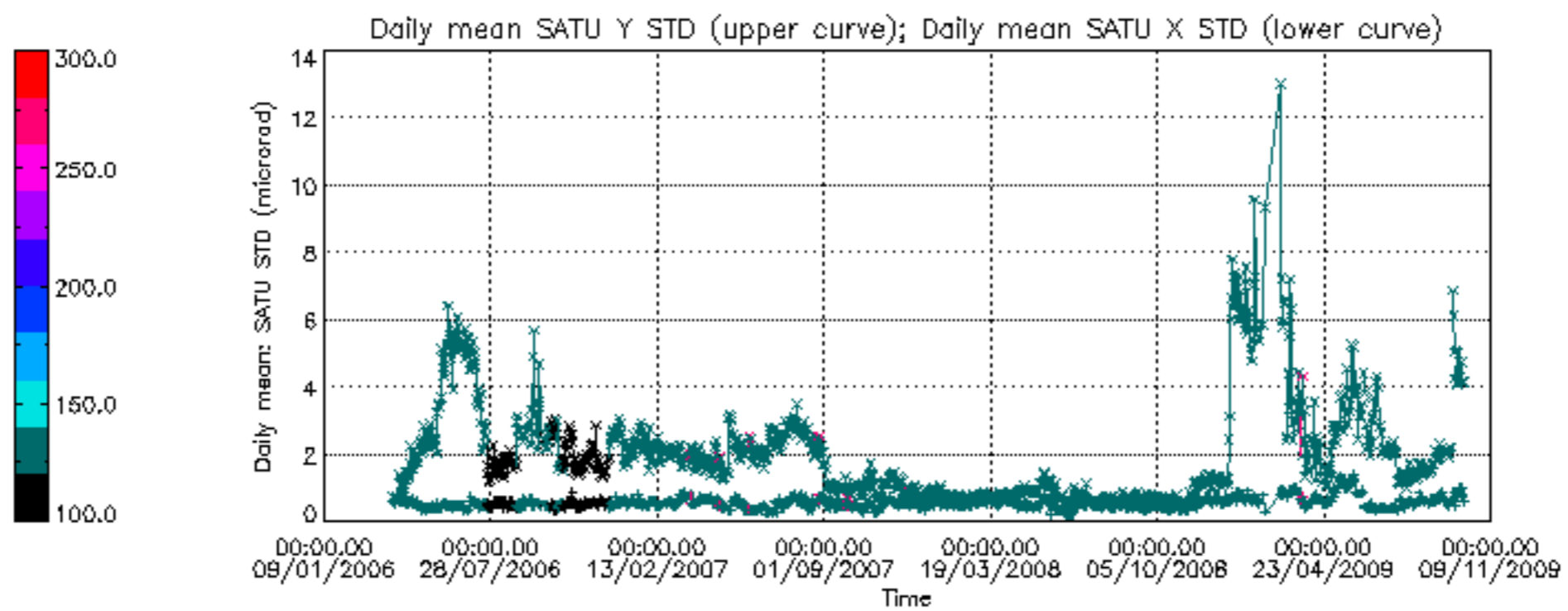


Tangent altitude at which the star is lost









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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; 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
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8; 5810.2; 01-OCT-2009 10:17:12; Dark ; 40.5; 88; 31Eta CMA ; 2.45; 20000;occ; 81; 0;39669
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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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6; 3028.5; 01-OCT-2009 14:32:38; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39672
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6; 3142.7; 10-OCT-2009 16:32:23; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;39802
7; 4616.8; 10-OCT-2009 16:56:57; Bright; 27.5; 166; 17Eps Leo ; 2.98; 6000;occ; 55; 0;39802
8; 5227.7; 10-OCT-2009 17:07:08; Dark ; 31.0; 48; 30Alp Hya ; 1.98; 4100;occ; 62; 0;39802
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8; 4617.2; 10-OCT-2009 20:18:09; Bright; 27.5; 166; 17Eps Leo ; 2.98; 6000;occ; 55; 0;39804
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11; 3009.9; 11-OCT-2009 02:33:46; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;39808
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6; 74.3; 11-OCT-2009 03:25:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39809
7; 201.0; 11-OCT-2009 03:27:33; Dark ; 36.5; 161; Tau Pup ; 2.93; 4500;occ; 73; 0;39809
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6; 1015.6; 11-OCT-2009 23:48:18; Dark ; 37.0; 157; The1Eri ; 2.91; 9300;occ; 74; 0;39821
7; 2383.1; 12-OCT-2009 00:11:06; Bright; 43.5; 105; 6Bet Ari ; 2.64; 8900;occ; 87; 0;39821
8; 2574.3; 12-OCT-2009 00:14:17; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;39821
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6; 278.0; 11-OCT-2009 06:50:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39811
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4; 2809.0; 11-OCT-2009 07:32:13; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;39811
5; 3008.9; 11-OCT-2009 07:35:33; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;39811
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8; 5232.9; 11-OCT-2009 08:12:37; Dark ; 31.0; 48; 30Alp Hya ; 1.98; 4100;occ; 62; 0;39811
9; 5730.2; 11-OCT-2009 08:20:54; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;39811
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3; 2702.7; 11-OCT-2009 09:11:02; Bright; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;39812
4; 2808.2; 11-OCT-2009 09:12:48; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;39812
5; 3008.6; 11-OCT-2009 09:16:08; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;39812
6; 3134.2; 11-OCT-2009 09:18:14; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;39812
7; 4619.0; 11-OCT-2009 09:42:59; Bright; 28.0; 166; 17Eps Leo ; 2.98; 6000;occ; 56; 0;39812
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3; 2646.8; 16-OCT-2009 09:53:13; Bright; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;39884
4; 2759.3; 16-OCT-2009 09:55:06; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;39884
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6; 3076.0; 16-OCT-2009 10:00:22; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;39884
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9; 5280.0; 16-OCT-2009 10:37:06; Dark ; 33.5; 48; 30Alp Hya ; 1.98; 4100;occ; 67; 0;39884
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6; 3075.0; 16-OCT-2009 11:40:57; Bright; 40.5; 160; 23Gam Per ; 2.93; 4700;occ; 81; 0;39885
7; 4636.9; 16-OCT-2009 12:06:59; Bright; 29.5; 166; 17Eps Leo ; 2.98; 6000;occ; 59; 0;39885
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9; 5280.9; 16-OCT-2009 12:17:43; Dark ; 33.5; 48; 30Alp Hya ; 1.98; 4100;occ; 67; 0;39885
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6; 3074.4; 16-OCT-2009 13:21:33; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;39886
7; 4637.2; 16-OCT-2009 13:47:35; Bright; 29.0; 166; 17Eps Leo ; 2.98; 6000;occ; 58; 0;39886
8; 4834.2; 16-OCT-2009 13:50:52; Bright; 28.0; 22; 32Alp Leo ; 1.36; 15200;occ; 56; 0;39886
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6; 3073.8; 16-OCT-2009 15:02:08; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;39887
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7; 3072.2; 16-OCT-2009 18:23:18; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;39889
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4; 2642.8; 16-OCT-2009 19:56:45; Bright; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;39890
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5; 6296.2; 25-OCT-2009 12:51:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40014
6; 6486.4; 25-OCT-2009 12:55:04; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;40014
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2; 2573.1; 25-OCT-2009 13:30:26; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40015
3; 2692.5; 25-OCT-2009 13:32:26; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40015
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2; 2568.9; 26-OCT-2009 06:16:22; Bright; 2.0; 173; 4Bet Tri ; 3.00; 8900;occ; 4; 0;40025
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3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
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4; 6163.3; 26-OCT-2009 13:58:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40029
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3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
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