

# GOMOS Daily Report 30-SEP-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	02OCT2009 04:32:25
Data source version	GOMOS/5.00L03
Start time of products	30SEP2009 00:23:33
Stop time of products	30SEP2009 23:53:27
Store outputs in DB	Yes
Nb of level 1b prods	62
Nb of prods with errors	0

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

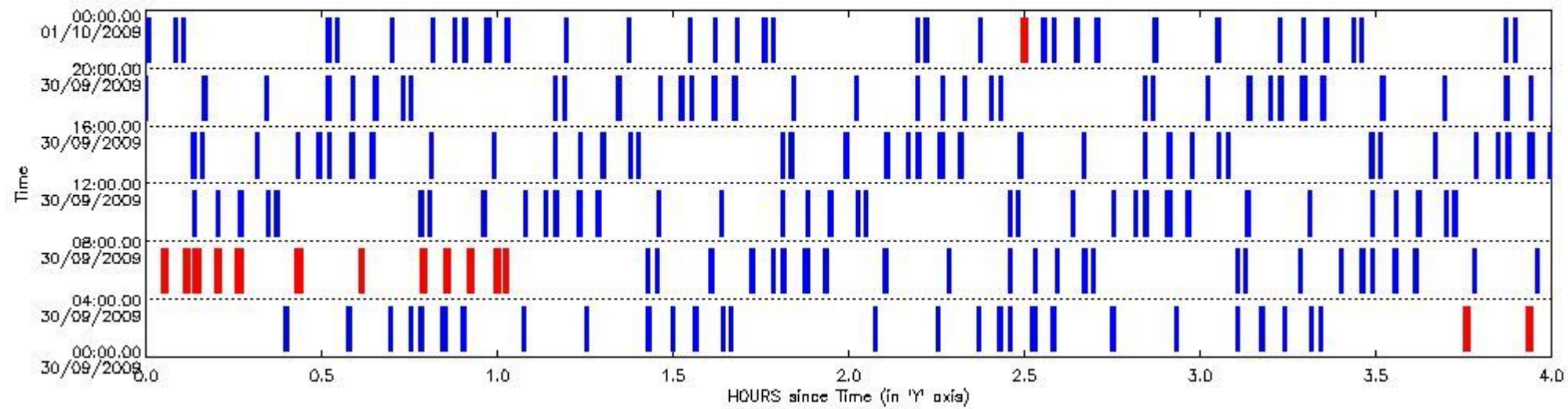
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

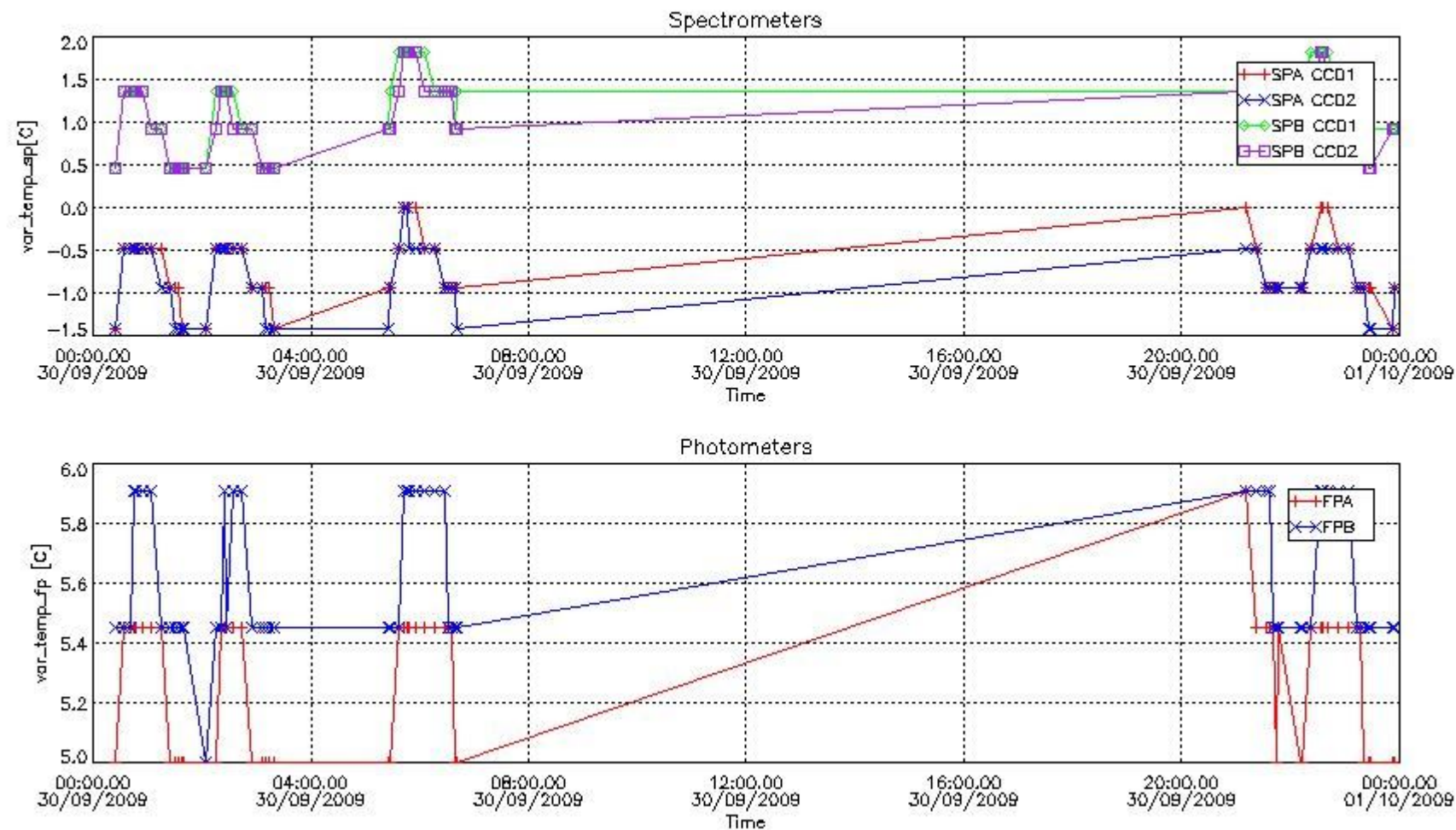
UTC start time	Star name	Star ID	Orbit
30-SEP-2009 03:44:51	66AlpGem	24	39651
30-SEP-2009 03:55:32	10AlpCMi	8	39651
30-SEP-2009 04:02:37	15RhoPup	132	39651
30-SEP-2009 04:06:11	31EtaCMa	88	39651
30-SEP-2009 04:07:53	21EpsCMa	23	39651
30-SEP-2009 04:11:40	DSA1059	0	39652
30-SEP-2009 04:15:04	AlpCol	108	39652
30-SEP-2009 04:25:23	The1Eri	157	39652
30-SEP-2009 04:36:12	16BetCet	52	39652
30-SEP-2009 04:46:44	88GamPeg	140	39652
30-SEP-2009 04:50:55	21AlpAnd	58	39652
30-SEP-2009 04:54:45	43BetAnd	53	39652
30-SEP-2009 04:59:27	18AlpCas	68	39652
30-SEP-2009 05:00:53	27GamCas	76	39652
30-SEP-2009 22:29:21	15RhoPup	132	39662

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_1PNPDE20090930_002333_000000372083_00016_39649_8781.N1	30-SEP-2009 00:23:33	Twilight	36.500	24	66Alp Gem	1.5800	10200.	73	39649	No
2	GOM_TRA_1PNPDE20090930_003413_000000422083_00016_39649_8782.N1	30-SEP-2009 00:34:13	Dark	42.000	8	10Alp CMi	0.40000	6500.0	84	39649	No
3	GOM_TRA_1PNPDE20090930_004118_000000352083_00016_39649_8779.N1	30-SEP-2009 00:41:18	Dark	35.000	132	15Rho Pup	2.8030	6900.0	70	39649	No
4	GOM_TRA_1PNPDE20090930_004452_000000392083_00016_39649_8780.N1	30-SEP-2009 00:44:52	Dark	39.000	88	31Eta CMa	2.4480	20000.	78	39649	No
5	GOM_TRA_1PNPDE20090930_004633_000000442083_00016_39649_8781.N1	30-SEP-2009 00:46:33	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	39649	No
6	GOM_TRA_1PNPDE20090930_005343_000000522083_00017_39650_8782.N1	30-SEP-2009 00:53:43	Dark	51.500	108	Alp Col	2.6520	15200.	103	39650	No
7	GOM_TRA_1PNPDE20090930_010403_000000412083_00017_39650_8783.N1	30-SEP-2009 01:04:03	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	39650	No
8	GOM_TRA_1PNPDE20090930_011454_000000352083_00017_39650_8784.N1	30-SEP-2009 01:14:54	Straylight	34.500	52	16Bet Cet	2.0370	4500.0	69	39650	No
9	GOM_TRA_1PNPDE20090930_012527_000000362083_00017_39650_8785.N1	30-SEP-2009 01:25:27	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	39650	No
10	GOM_TRA_1PNPDE20090930_012937_000000352083_00017_39650_8786.N1	30-SEP-2009 01:29:37	Bright	35.000	58	21Alp And	2.0730	11000.	70	39650	No
11	GOM_TRA_1PNPDE20090930_013329_000000422083_00017_39650_8787.N1	30-SEP-2009 01:33:29	Bright	42.000	53	43Bet And	2.0480	3300.0	84	39650	No
12	GOM_TRA_1PNPDE20090930_013810_000000352083_00017_39650_8788.N1	30-SEP-2009 01:38:10	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	39650	No
13	GOM_TRA_1PNPDE20090930_013936_000000342083_00017_39650_8789.N1	30-SEP-2009 01:39:36	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39650	No
14	GOM_TRA_1PNPDE20090930_020409_000000362083_00017_39650_8790.N1	30-SEP-2009 02:04:09	Twilight	36.000	24	66Alp Gem	1.5800	10200.	72	39650	No
15	GOM_TRA_1PNPDE20090930_021449_000000432083_00017_39650_8787.N1	30-SEP-2009 02:14:49	Dark	43.000	8	10Alp CMi	0.40000	6500.0	86	39650	No
16	GOM_TRA_1PNPDE20090930_022154_000000352083_00017_39650_8788.N1	30-SEP-2009 02:21:54	Dark	35.000	132	15Rho Pup	2.8030	6900.0	70	39650	No
17	GOM_TRA_1PNPDE20090930_022528_000000402083_00017_39650_8789.N1	30-SEP-2009 02:25:28	Dark	39.500	88	31Eta CMa	2.4480	20000.	79	39650	No
18	GOM_TRA_1PNPDE20090930_022710_000000442083_00017_39650_8790.N1	30-SEP-2009 02:27:10	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	39650	No
19	GOM_TRA_1PNPDE20090930_023420_000000522083_00018_39651_8791.N1	30-SEP-2009 02:34:20	Dark	51.500	108	Alp Col	2.6520	15200.	103	39651	No
20	GOM_TRA_1PNPDE20090930_024440_000000412083_00018_39651_8792.N1	30-SEP-2009 02:44:40	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	39651	No
21	GOM_TRA_1PNPDE20090930_025530_000000352083_00018_39651_8793.N1	30-SEP-2009 02:55:30	Straylight	34.500	52	16Bet Cet	2.0370	4500.0	69	39651	No
22	GOM_TRA_1PNPDE20090930_030603_000000352083_00018_39651_8794.N1	30-SEP-2009 03:06:03	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	39651	No
23	GOM_TRA_1PNPDE20090930_031013_000000352083_00018_39651_8795.N1	30-SEP-2009 03:10:13	Bright	35.000	58	21Alp And	2.0730	11000.	70	39651	No
24	GOM_TRA_1PNPDE20090930_031404_000000422083_00018_39651_8796.N1	30-SEP-2009 03:14:04	Bright	41.500	53	43Bet And	2.0480	3300.0	83	39651	No
25	GOM_TRA_1PNPDE20090930_031845_000000352083_00018_39651_8797.N1	30-SEP-2009 03:18:45	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	39651	No
26	GOM_TRA_1PNPDE20090930_032011_000000342083_00018_39651_8798.N1	30-SEP-2009 03:20:11	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	39651	No
27	GOM_TRA_1PNPDE20090930_052521_000000372083_00019_39652_8791.N1	30-SEP-2009 05:25:21	Twilight	36.500	24	66Alp Gem	1.5800	10200.	73	39652	No
28	GOM_TRA_1PNPDE20090930_052649_000000362083_00019_39652_8792.N1	30-SEP-2009 05:26:49	Twilight	36.000	17	78Bet Gem	1.1610	4500.0	72	39652	No
29	GOM_TRA_1PNPDE20090930_053603_000000432083_00019_39652_8793.N1	30-SEP-2009 05:36:03	Dark	43.000	8	10Alp CMi	0.40000	6500.0	86	39652	No
30	GOM_TRA_1PNPDE20090930_054308_000000362083_00019_39652_8794.N1	30-SEP-2009 05:43:08	Dark	35.500	132	15Rho Pup	2.8030	6900.0	71	39652	No
31	GOM_TRA_1PNPDE20090930_054642_000000402083_00019_39652_8795.N1	30-SEP-2009 05:46:42	Dark	40.000	88	31Eta CMa	2.4480	20000.	80	39652	No
32	GOM_TRA_1PNPDE20090930_054824_000000442083_00019_39652_8796.N1	30-SEP-2009 05:48:24	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	39652	No
33	GOM_TRA_1PNPDE20090930_055535_000000522083_00020_39653_8797.N1	30-SEP-2009 05:55:35	Dark	52.000	108	Alp Col	2.6520	15200.	104	39653	No
34	GOM_TRA_1PNPDE20090930_060553_000000412083_00020_39653_8798.N1	30-SEP-2009 06:05:53	Straylight	41.000	157	The1Eri	2.9060	9300.0	82	39653	No
35	GOM_TRA_1PNPDE20090930_061642_000000352083_00020_39653_8799.N1	30-SEP-2009 06:16:42	Straylight	34.500	52	16Bet Cet	2.0370	4500.0	69	39653	No
36	GOM_TRA_1PNPDE20090930_062714_000000362083_00020_39653_8800.N1	30-SEP-2009 06:27:14	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	39653	No
37	GOM_TRA_1PNPDE20090930_063124_000000362083_00020_39653_8801.N1	30-SEP-2009 06:31:24	Bright	35.500	58	21Alp And	2.0730	11000.	71	39653	No
38	GOM_TRA_1PNPDE20090930_063514_000000422083_00020_39653_8802.N1	30-SEP-2009 06:35:14	Bright	42.000	53	43Bet And	2.0480	3300.0	84	39653	No
39	GOM_TRA_1PNPDE20090930_063956_000000352083_00020_39653_8803.N1	30-SEP-2009 06:39:56	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	39653	No
40	GOM_TRA_1PNPDE20090930_064122_000000342083_00020_39653_8804.N1	30-SEP-2009 06:41:22	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39653	No
41	GOM_TRA_1PNPDE20090930_211124_000000412083_00029_39662_8836.N1	30-SEP-2009 21:11:24	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	39662	No
42	GOM_TRA_1PNPDE20090930_212207_000000342083_00029_39662_8837.N1	30-SEP-2009 21:22:07	Straylight	34.000	52	16Bet Cet	2.0370	4500.0	68	39662	No
43	GOM_TRA_1PNPDE20090930_213236_000000352083_00029_39662_8838.N1	30-SEP-2009 21:32:36	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	39662	No
44	GOM_TRA_1PNPDE20090930_213646_000000352083_00029_39662_8839.N1	30-SEP-2009 21:36:46	Bright	35.000	58	21Alp And	2.0730	11000.	70	39662	No
45	GOM_TRA_1PNPDE20090930_214031_000000422083_00029_39662_8840.N1	30-SEP-2009 21:40:31	Bright	42.000	53	43Bet And	2.0480	3300.0	84	39662	No
46	GOM_TRA_1PNPDE20090930_214517_000000352083_00029_39662_8841.N1	30-SEP-2009 21:45:17	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	39662	No
47	GOM_TRA_1PNPDE20090930_214643_000000352083_00029_39662_8842.N1	30-SEP-2009 21:46:43	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	39662	No
48	GOM_TRA_1PNPDE20090930_221123_000000302083_00029_39662_8843.N1	30-SEP-2009 22:11:23	Twilight	30.000	24	66Alp Gem	1.5800	10200.	60	39662	No
49	GOM_TRA_1PNPDE20090930_221251_000000372083_00029_39662_8844.N1	30-SEP-2009 22:12:51	Twilight	36.500	17	78Bet Gem	1.1610	4500.0	73	39662	No
50	GOM_TRA_1PNPDE20090930_222213_000000282083_00029_39662_8845.N1	30-SEP-2009 22:22:13	Dark	27.500	8	10Alp CMi	0.40000	6500.0	55	39662	No
51	GOM_TRA_1PNPDE20090930_223253_000000402083_00029_39662_8845.N1	30-SEP-2009 22:32:53	Dark	40.000	88	31Eta CMa	2.4480	20000.	80	39662	No
52	GOM_TRA_1PNPDE20090930_223437_000000452083_00029_39662_8846.N1	30-SEP-2009 22:34:37	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	39662	No
53	GOM_TRA_1PNPDE20090930_224150_000000532083_00030_39663_8847.N1	30-SEP-2009 22:41:50	Dark	52.500	108	Alp Col	2.6520	15200.	105	39663	No
54	GOM_TRA_1PNPDE20090930_225200_000000422083_00030_39663_8848.N1	30-SEP-2009 22:52:00	Straylight	41.500	157	The1Eri	2.9060	9300.0	83	39663	No

55	GOM_TRA_1PNPDE20090930_230243_000000352083_00030_39663_8849.N1	30-SEP-2009 23:02:43	Straylight	35.000	52	16Bet Cet	2.0370	4500.0	70	39663	No
56	GOM_TRA_1PNPDE20090930_231311_000000362083_00030_39663_8850.N1	30-SEP-2009 23:13:11	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	39663	No
57	GOM_TRA_1PNPDE20090930_231721_000000362083_00030_39663_8851.N1	30-SEP-2009 23:17:21	Bright	35.500	58	21Alp And	2.0730	11000.	71	39663	No
58	GOM_TRA_1PNPDE20090930_232107_000000422083_00030_39663_8852.N1	30-SEP-2009 23:21:07	Bright	42.000	53	43Bet And	2.0480	3300.0	84	39663	No
59	GOM_TRA_1PNPDE20090930_232552_000000352083_00030_39663_8853.N1	30-SEP-2009 23:25:52	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	39663	No
60	GOM_TRA_1PNPDE20090930_232718_000000352083_00030_39663_8854.N1	30-SEP-2009 23:27:18	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	39663	No
61	GOM_TRA_1PNPDE20090930_235159_000000302083_00030_39663_8855.N1	30-SEP-2009 23:51:59	Twilight_stray	30.000	24	66Alp Gem	1.5800	10200.	60	39663	No
62	GOM_TRA_1PNPDE20090930_235327_000000372083_00030_39663_8856.N1	30-SEP-2009 23:53:27	Twilight_stray	36.500	17	78Bet Gem	1.1610	4500.0	73	39663	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.

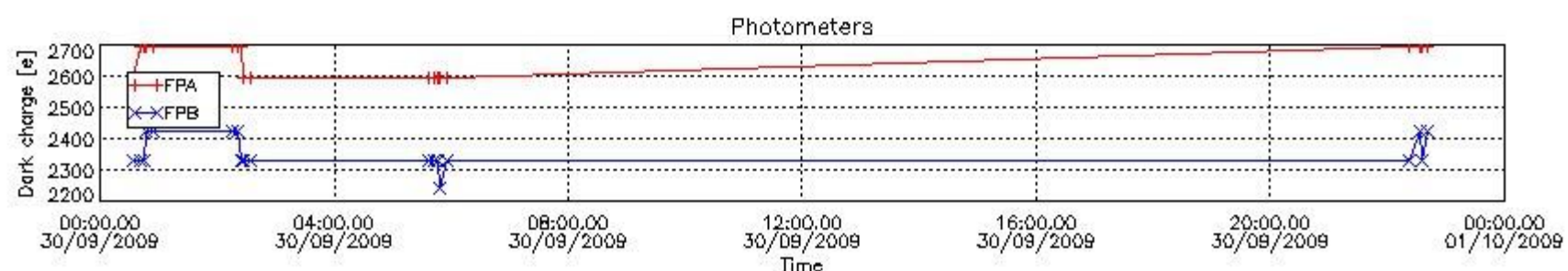
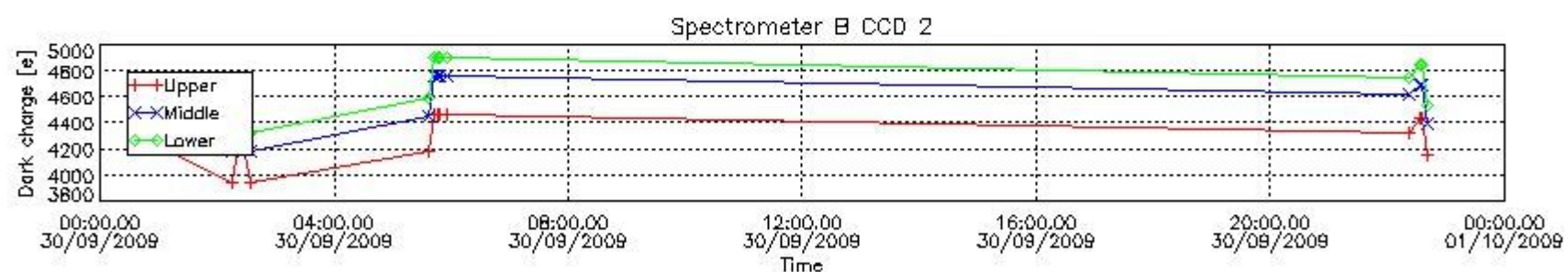
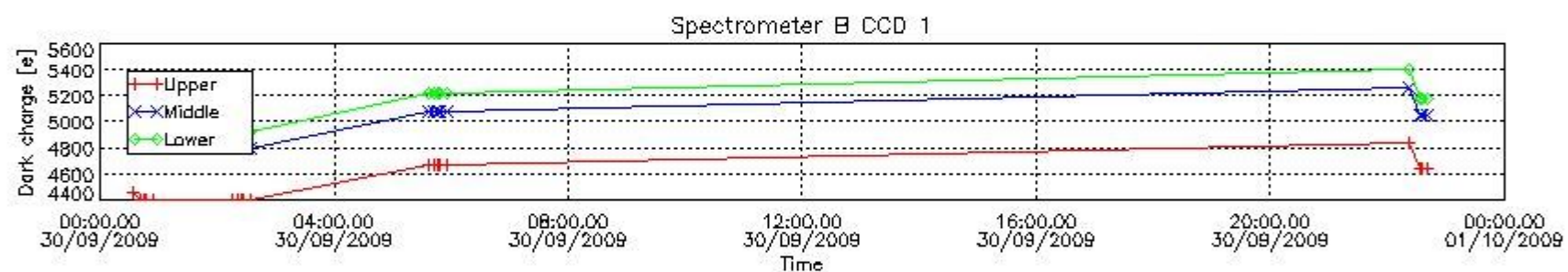
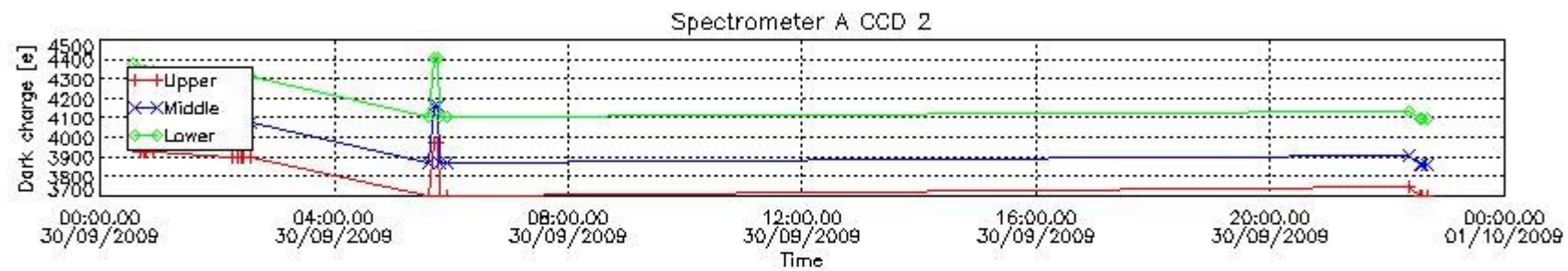
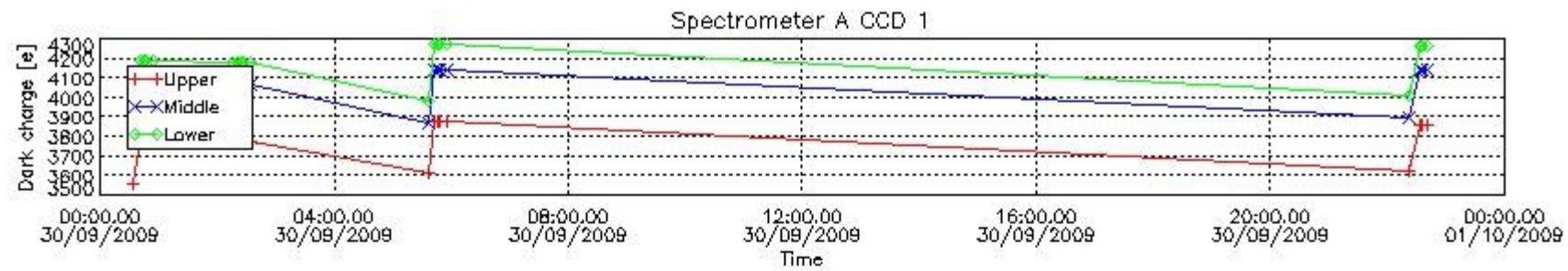
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090930_211124_000000412083_00029_39662_8836.N1	DC map used
GOM_TRA_1PNPDE20090930_212207_000000342083_00029_39662_8837.N1	DC map used



GOM_TRA_1PNPDE20090930_213236_000000352083_00029_39662_8838.N1	DC map used
GOM_TRA_1PNPDE20090930_213646_000000352083_00029_39662_8839.N1	DC map used
GOM_TRA_1PNPDE20090930_214031_000000422083_00029_39662_8840.N1	DC map used
GOM_TRA_1PNPDE20090930_214517_000000352083_00029_39662_8841.N1	DC map used
GOM_TRA_1PNPDE20090930_214643_000000352083_00029_39662_8842.N1	DC map used
GOM_TRA_1PNPDE20090930_221123_000000302083_00029_39662_8843.N1	DC map used
GOM_TRA_1PNPDE20090930_221251_000000372083_00029_39662_8844.N1	DC map used
GOM_TRA_1PNPDE20090930_222213_000000282083_00029_39662_8845.N1	DC map used

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



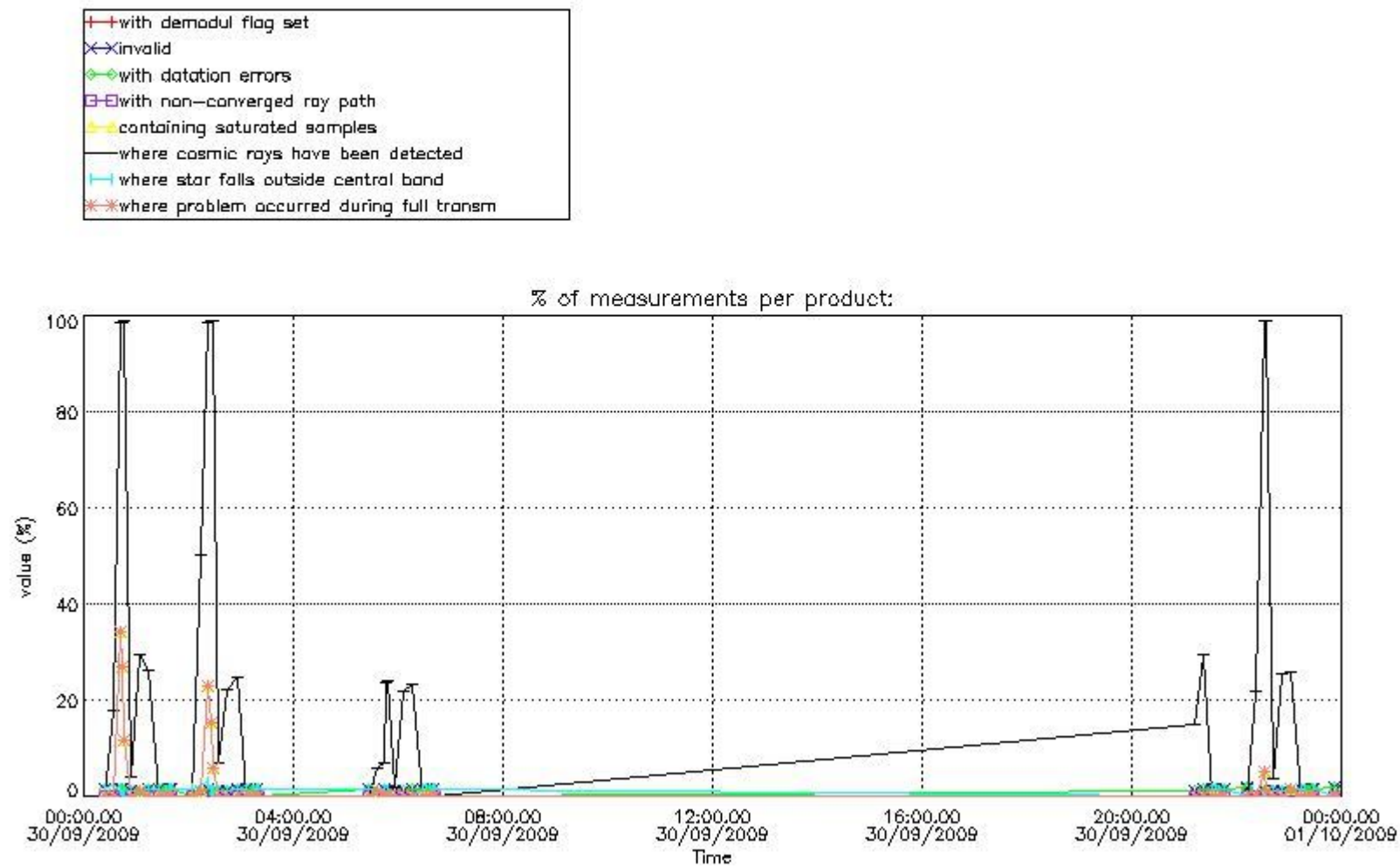
## 5. Demodulation flag and quality information monitoring

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:

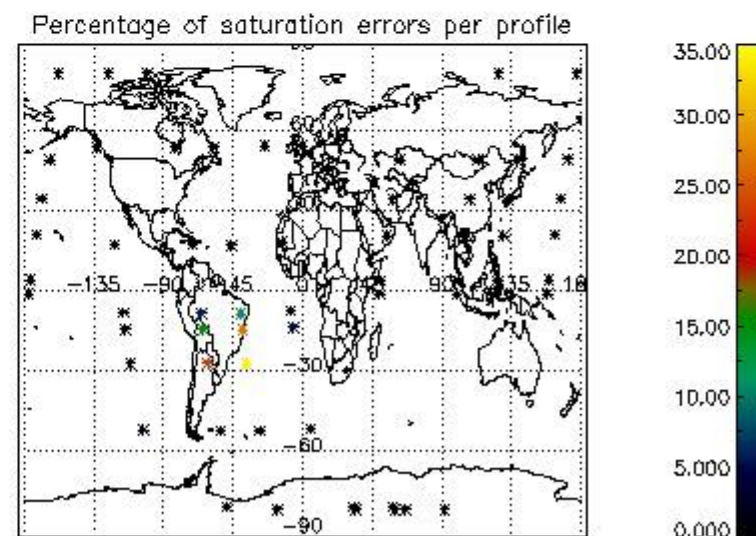
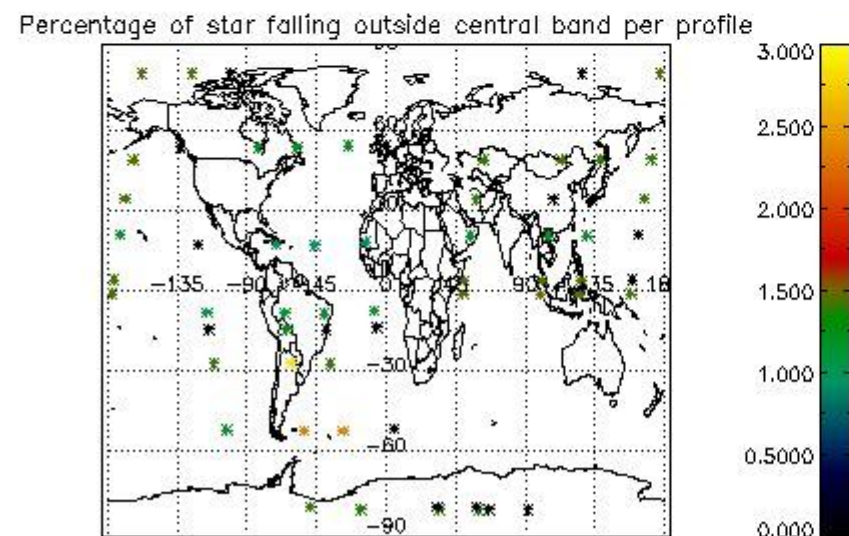
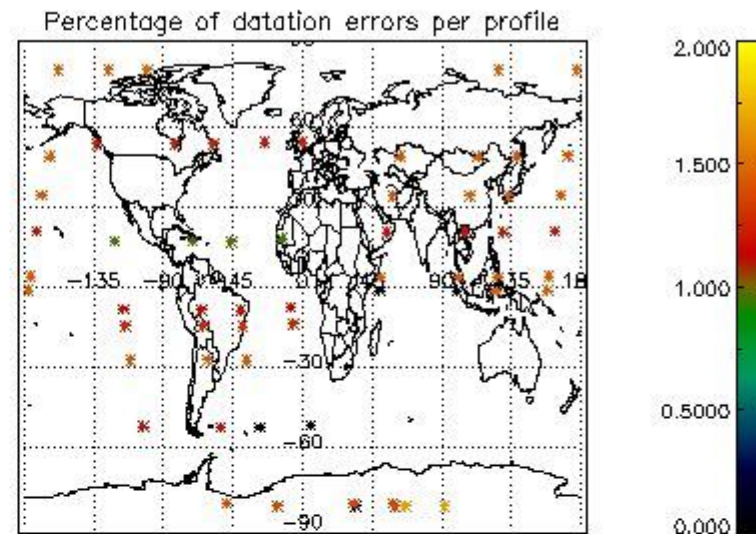
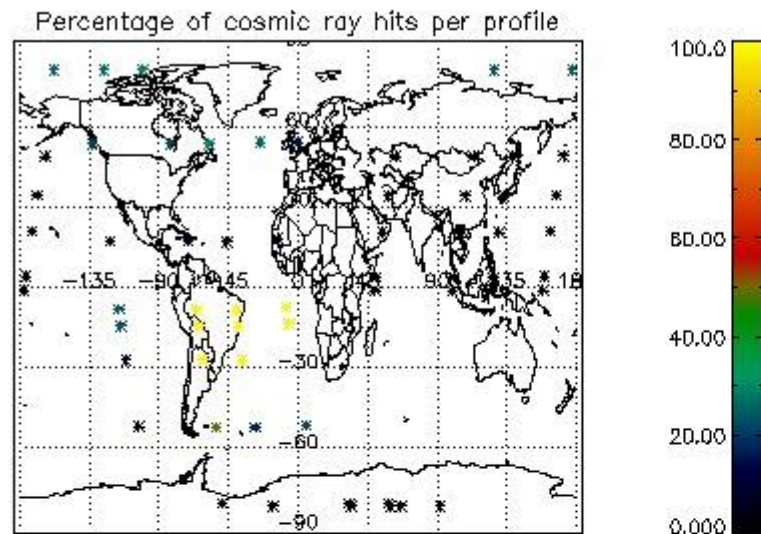
At least one measurement with demodulation flag set:	32.2581 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





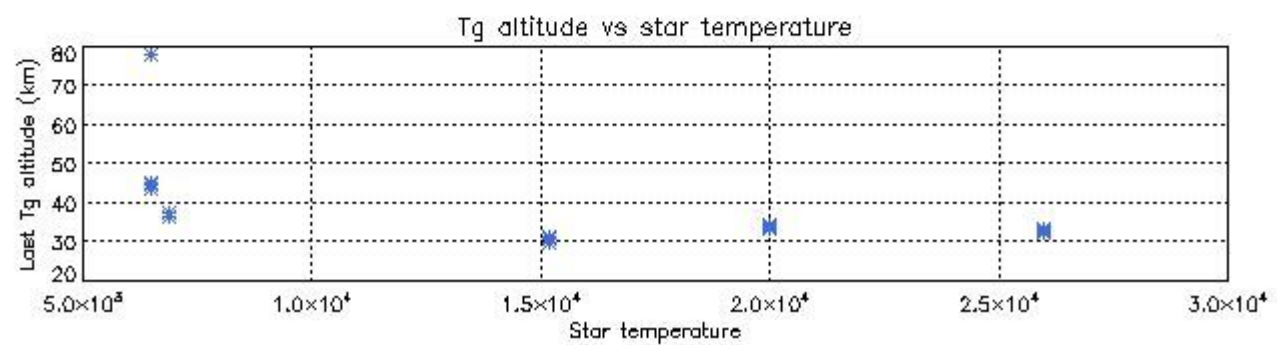
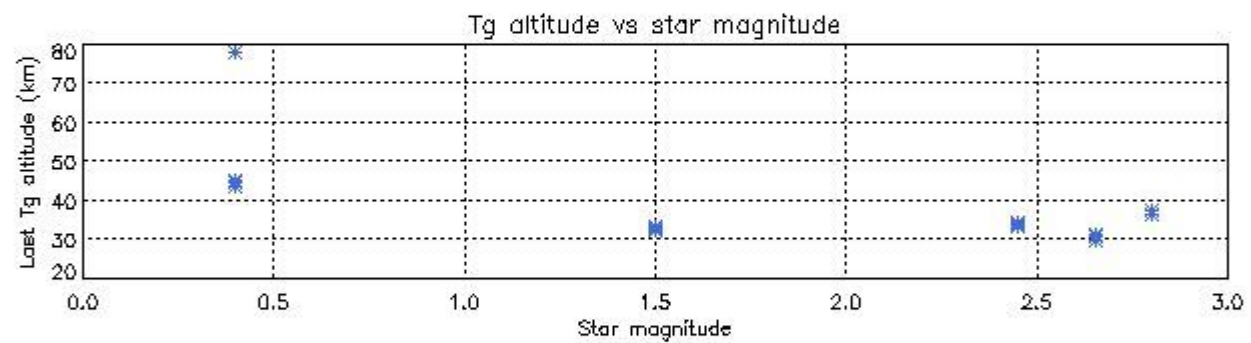
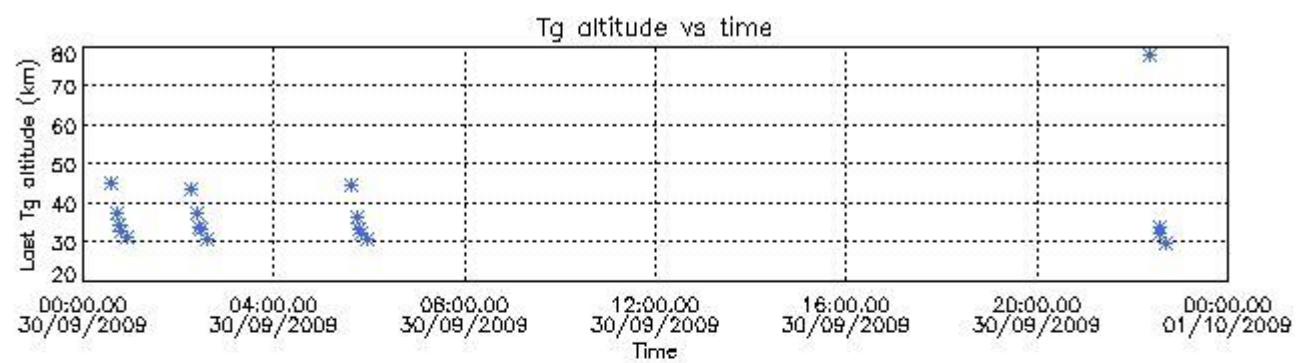
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	37.401	33.021	NaN
St. deviation:	10.884	1.6260	NaN
Maximum:	78.152	37.371	NaN
Minimum:	29.809	30.321	NaN
Number of data:	19.000	25.000	NaN

### 6.2 Plot for DARK limb products

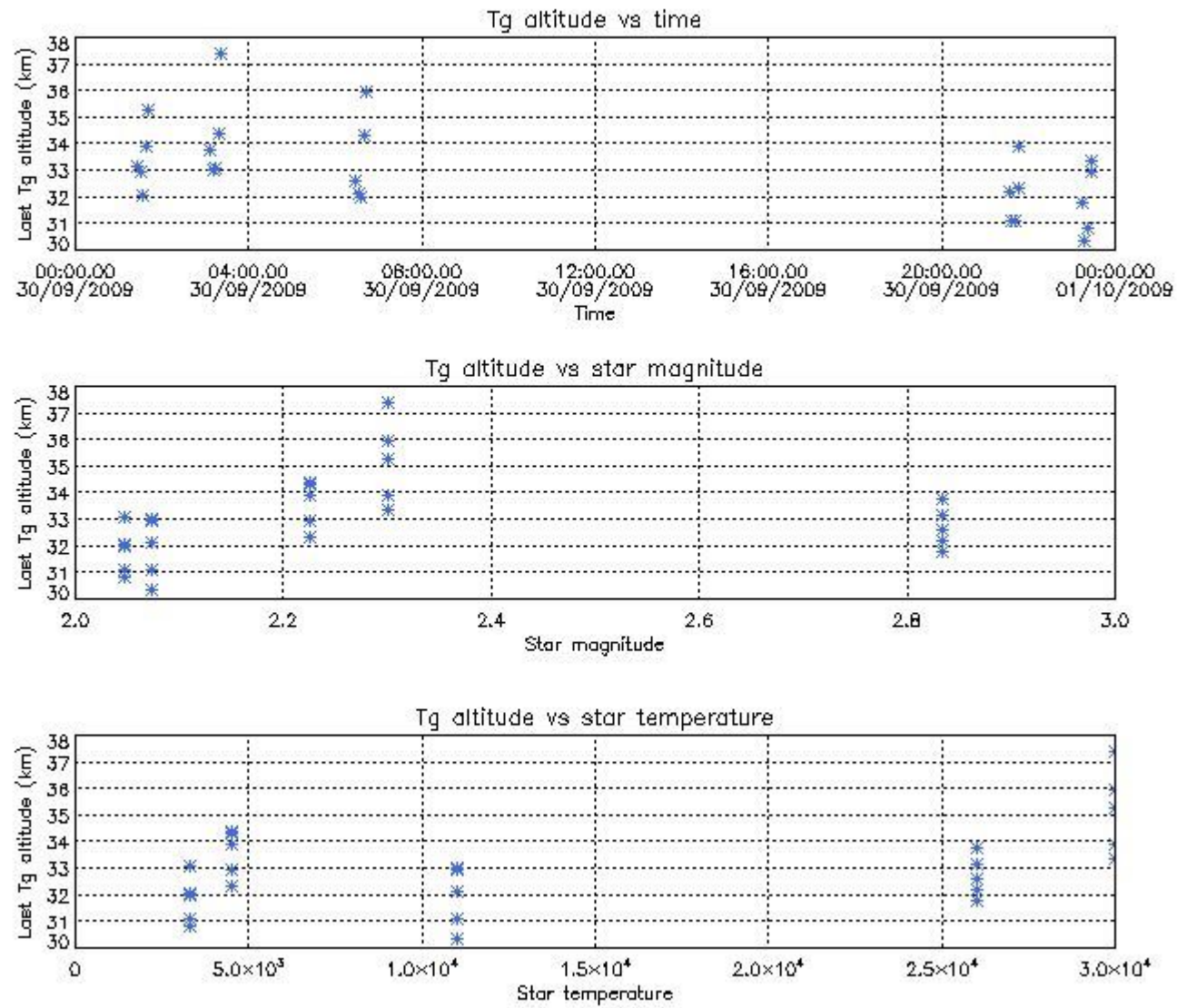
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

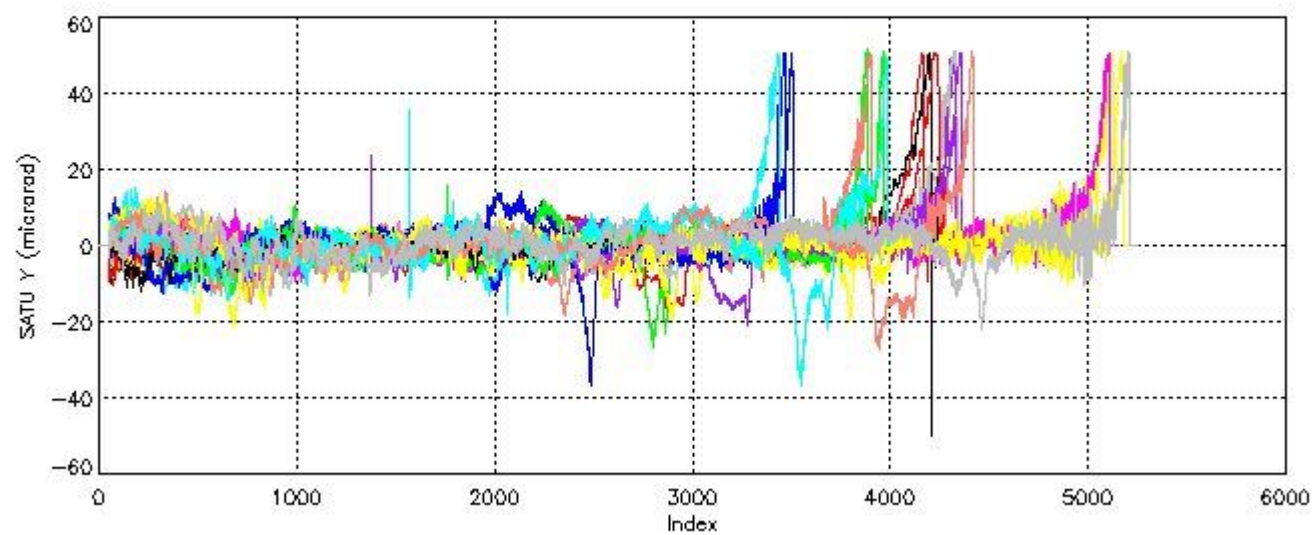
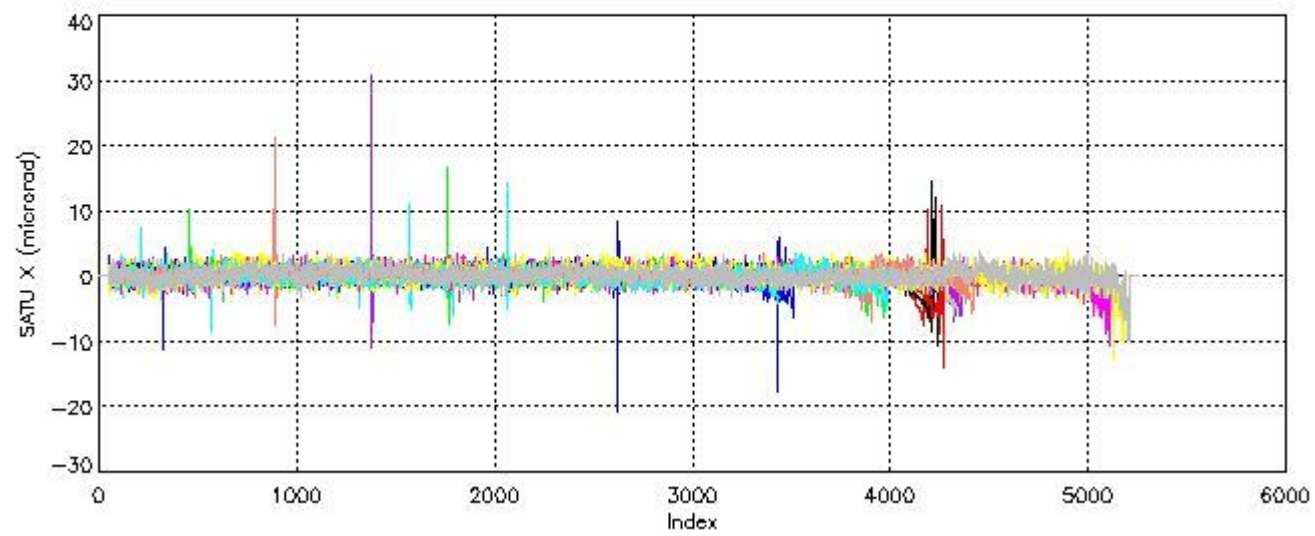


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.27484	-0.76703	0.26962	-0.84321
St. deviation:	0.73512	4.1094	0.88197	5.8125
Maximum:	21.200	15.100	5.8000	16.300
Minimum:	-11.200	-21.100	-5.3000	-27.300

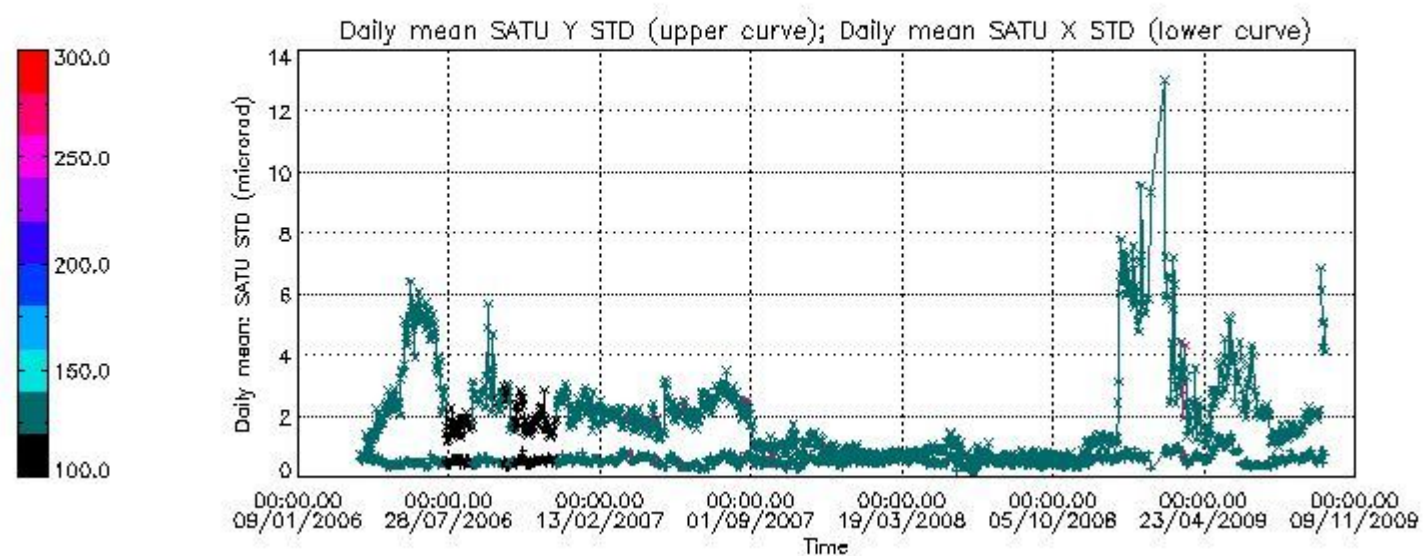
Number of data:	23800.	23800.	25300.	25300.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

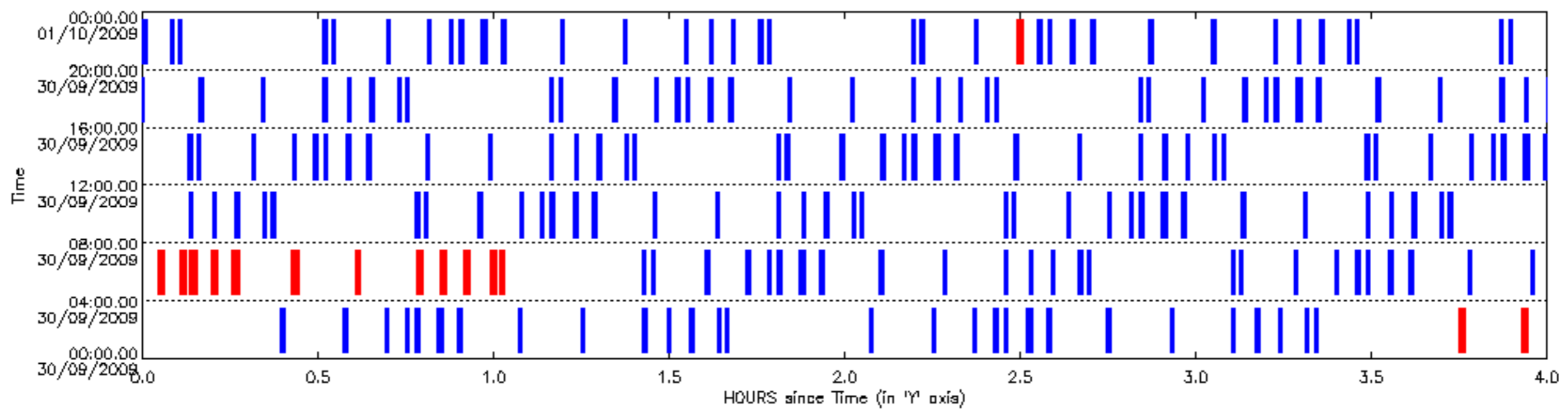


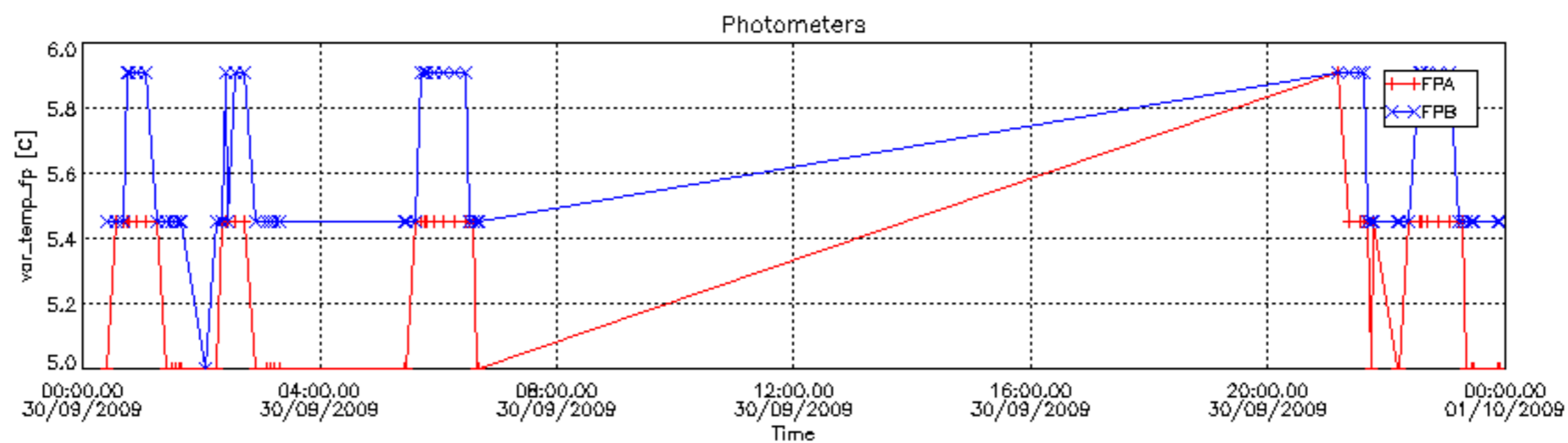
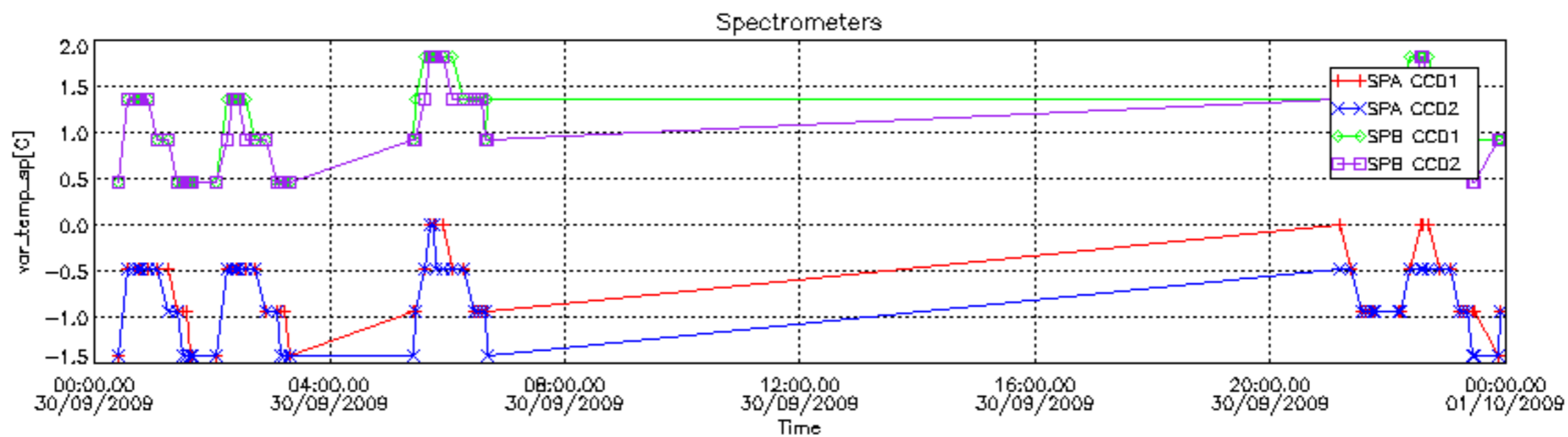
### 8. Auxiliary Data Files used for the production reported in section 2.4

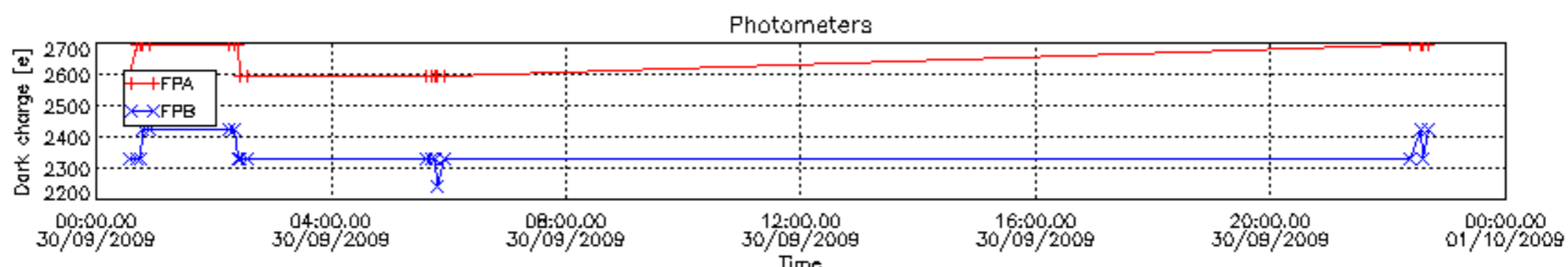
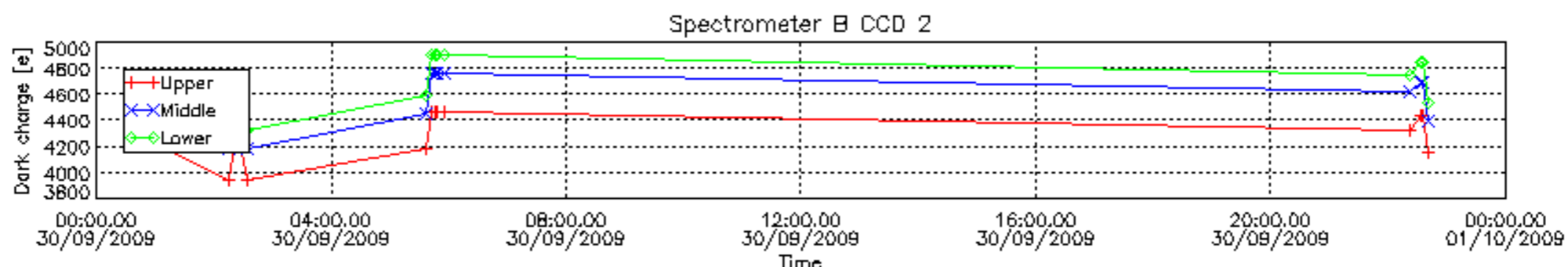
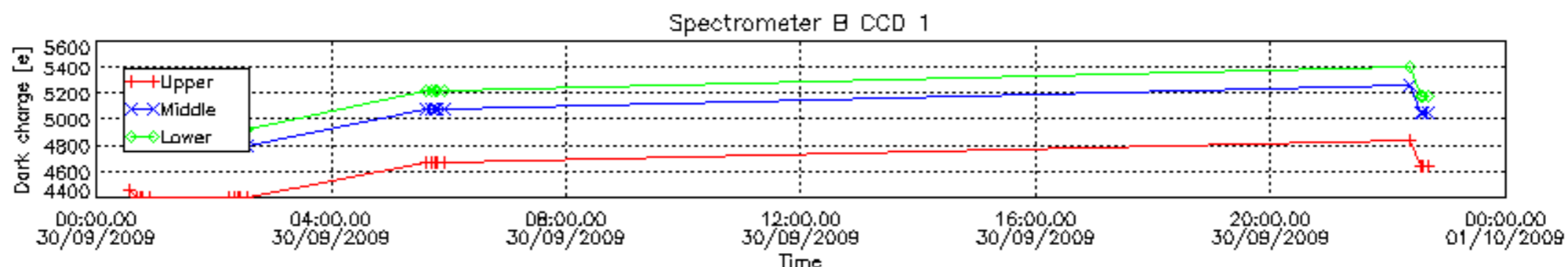
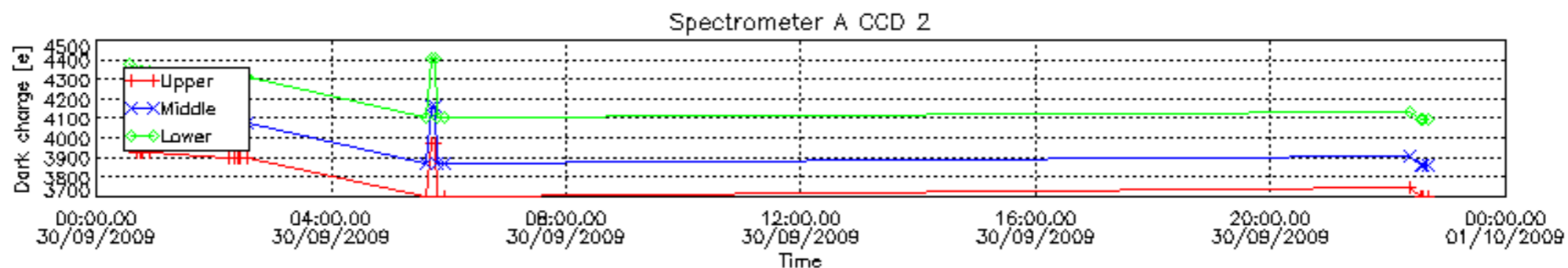
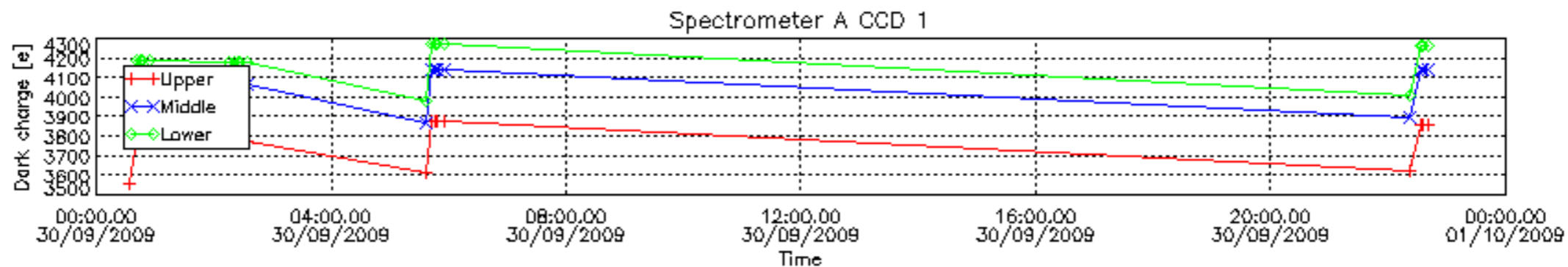
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	30-SEP-2009 00:23:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090922_092505_20090920_000000_20100101_000000	1	30-SEP-2009 00:23:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090930_074316_20090929_000000_20100101_000000	41	30-SEP-2009 21:11:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	30-SEP-2009 00:23:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-SEP-2009 00:23:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	30-SEP-2009 00:23:33
ECMWF_FILE	AUX_ECF_AXNECM20090929_064112_20090929_210000_20090930_090000	1	30-SEP-2009 00:23:33
ECMWF_FILE	AUX_ECA_AXNECM20090930_062112_20090929_210000_20090930_090000	27	30-SEP-2009 05:25:21
ECMWF_FILE	AUX_ECF_AXNECM20090930_064113_20090930_210000_20091001_090000	41	30-SEP-2009 21:11:24
OPTIONAL_ECMWF_FILE	MISSING	1	30-SEP-2009 00:23:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090929_225436_000057382083_00015_39648_8867.N1	1	30-SEP-2009 00:23:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090930_003533_000054192083_00016_39649_8868.N1	3	30-SEP-2009 00:41:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090930_021111_000041442083_00017_39650_8869.N1	15	30-SEP-2009 02:14:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090930_050631_000057382083_00019_39652_8870.N1	27	30-SEP-2009 05:25:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090930_210812_000041442083_00029_39662_8873.N1	41	30-SEP-2009 21:11:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090930_222235_000057382083_00029_39662_8874.N1	51	30-SEP-2009 22:32:53

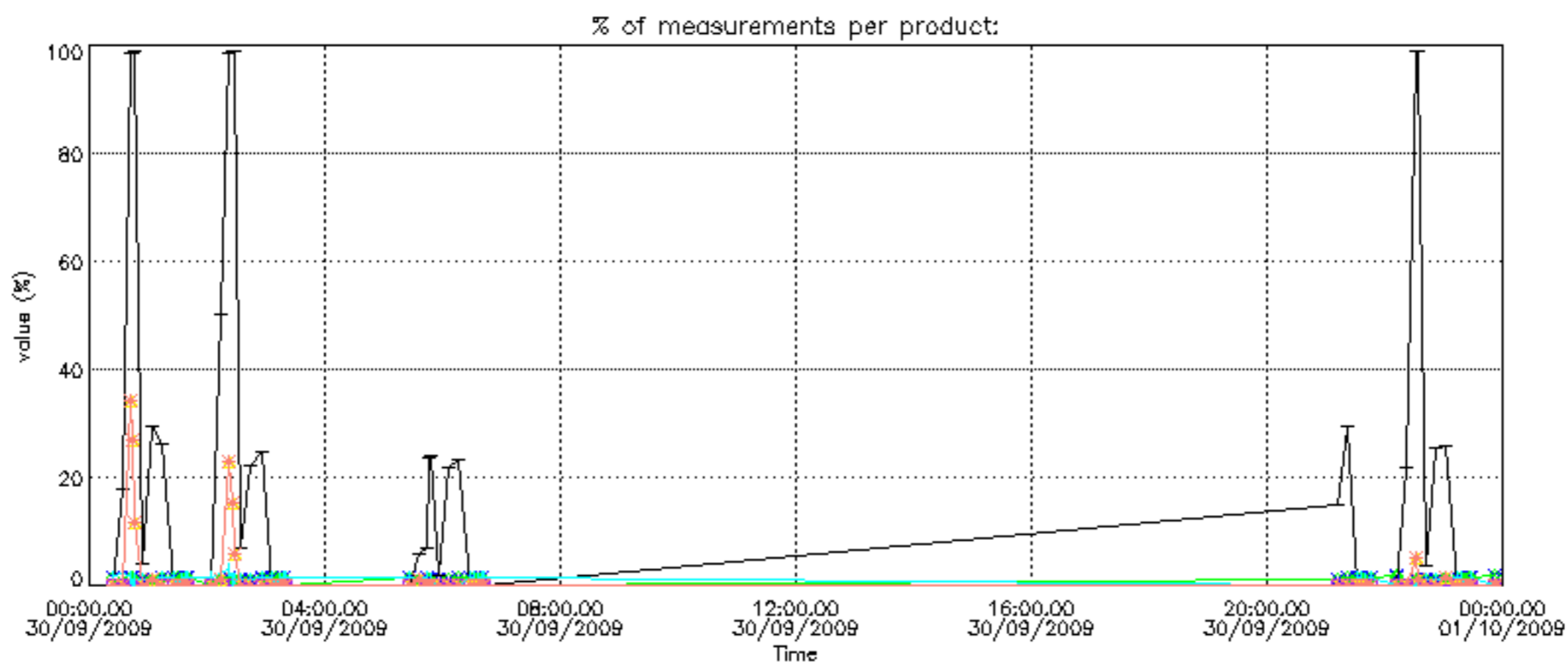




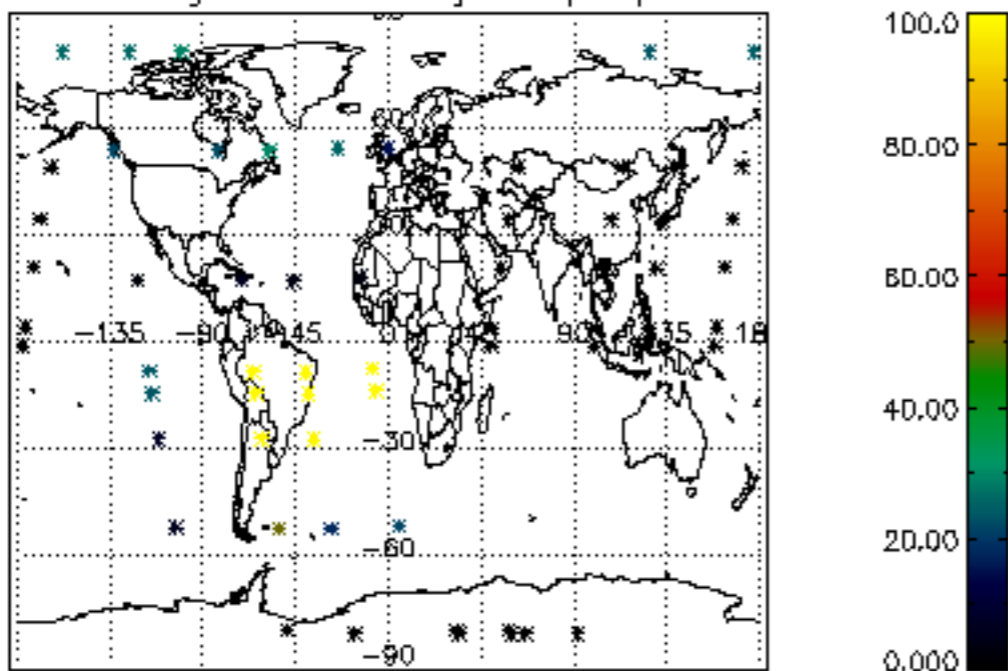




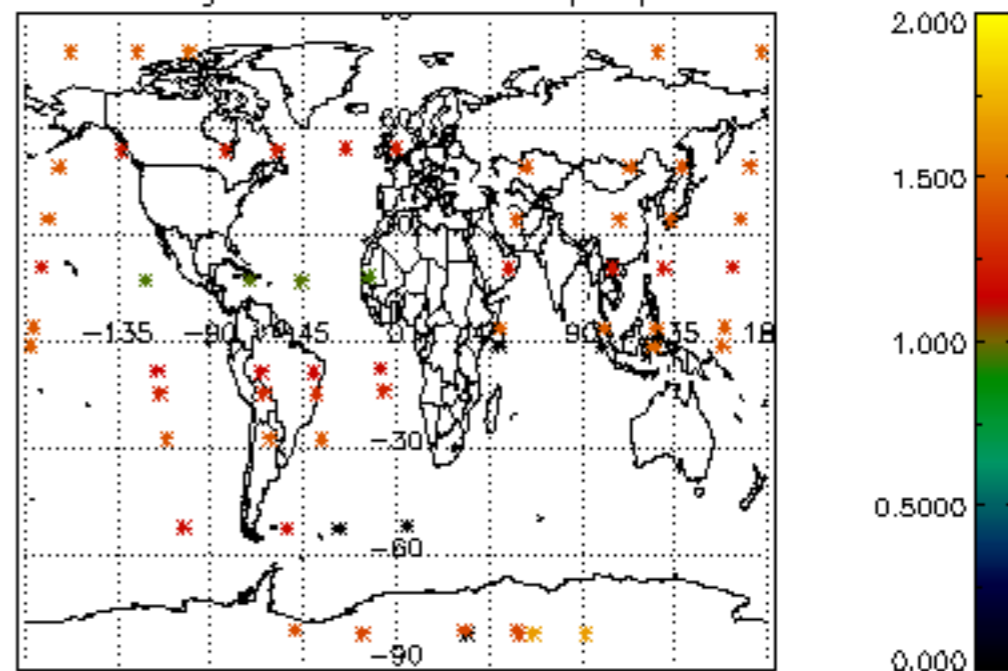




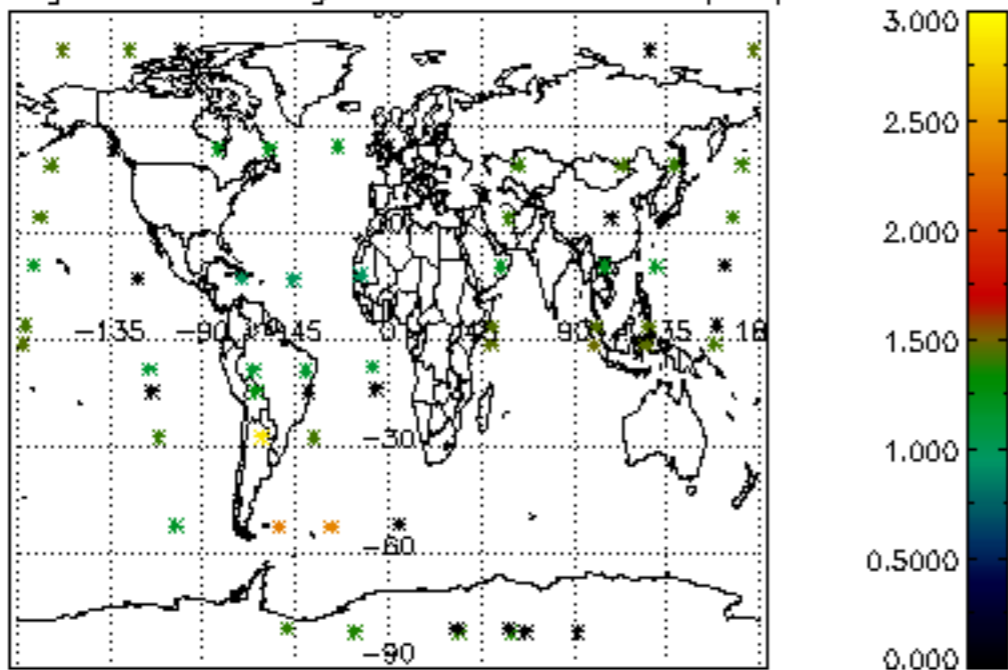
Percentage of cosmic ray hits per profile



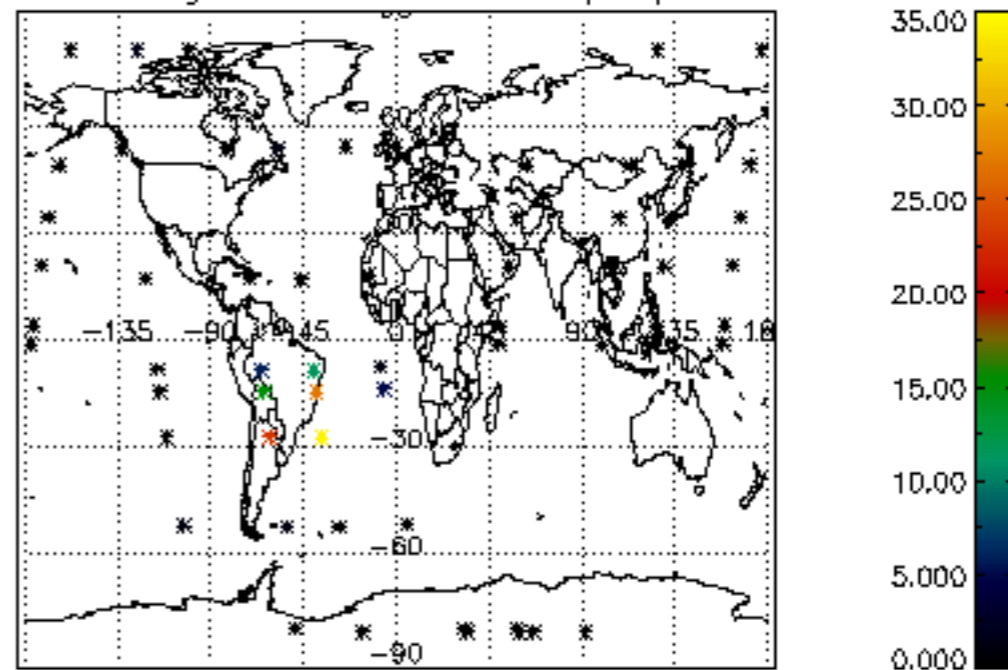
Percentage of datation errors per profile



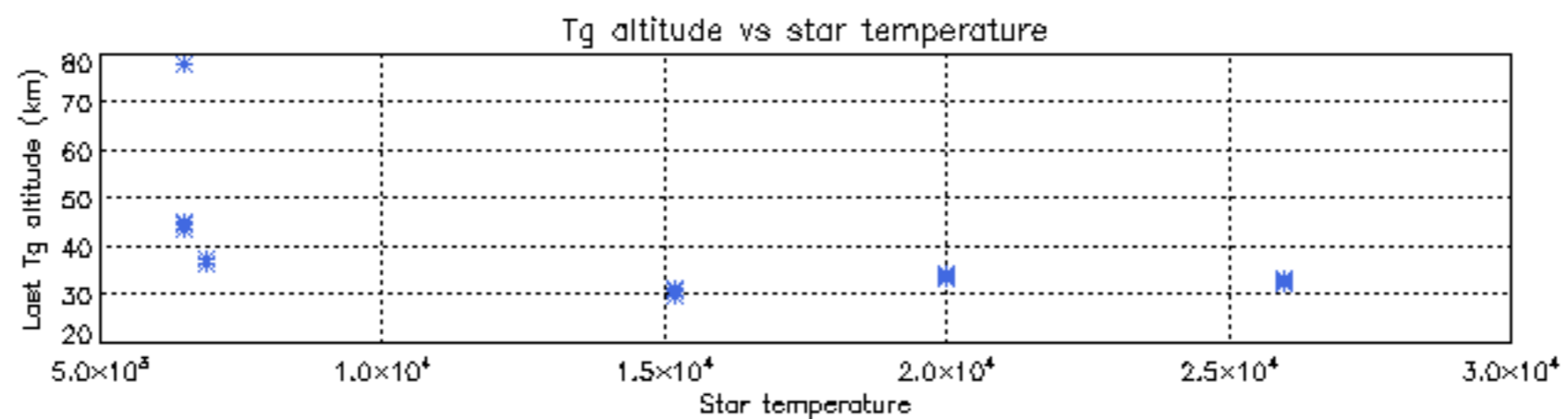
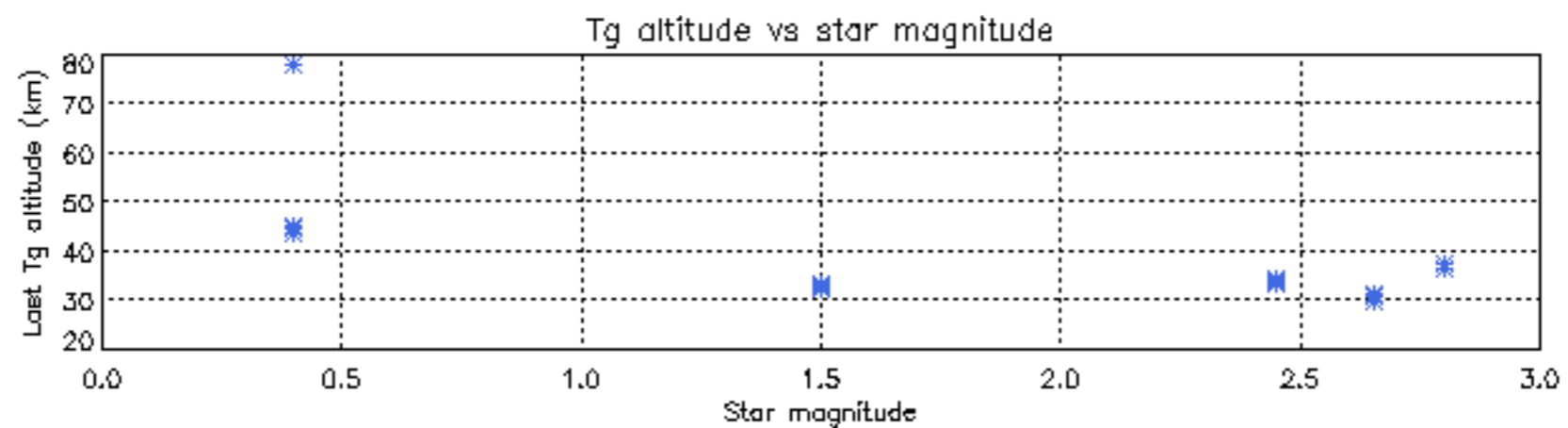
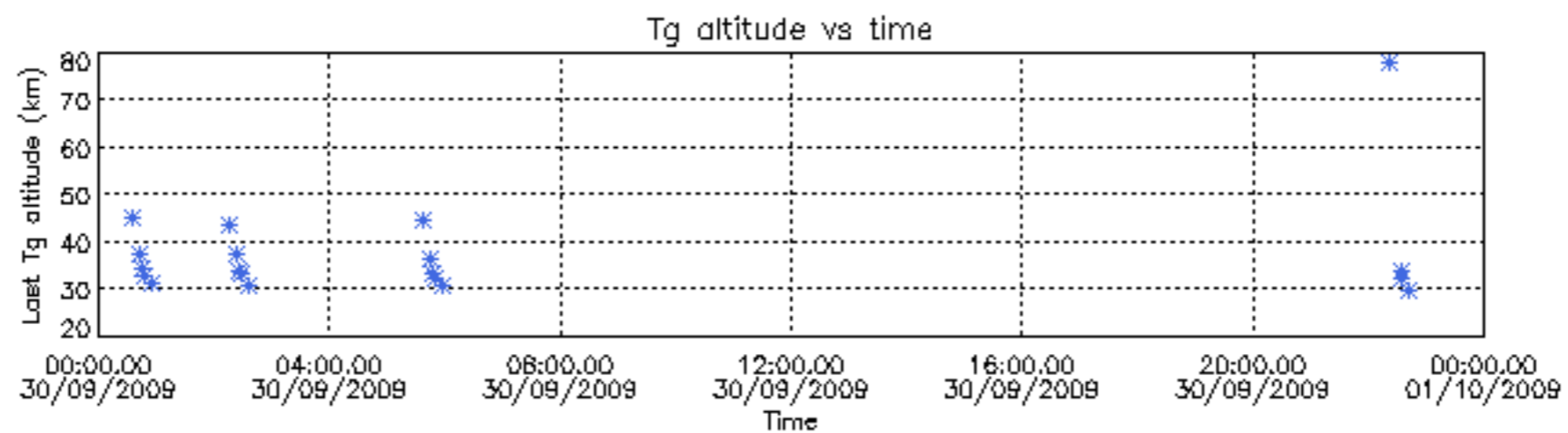
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

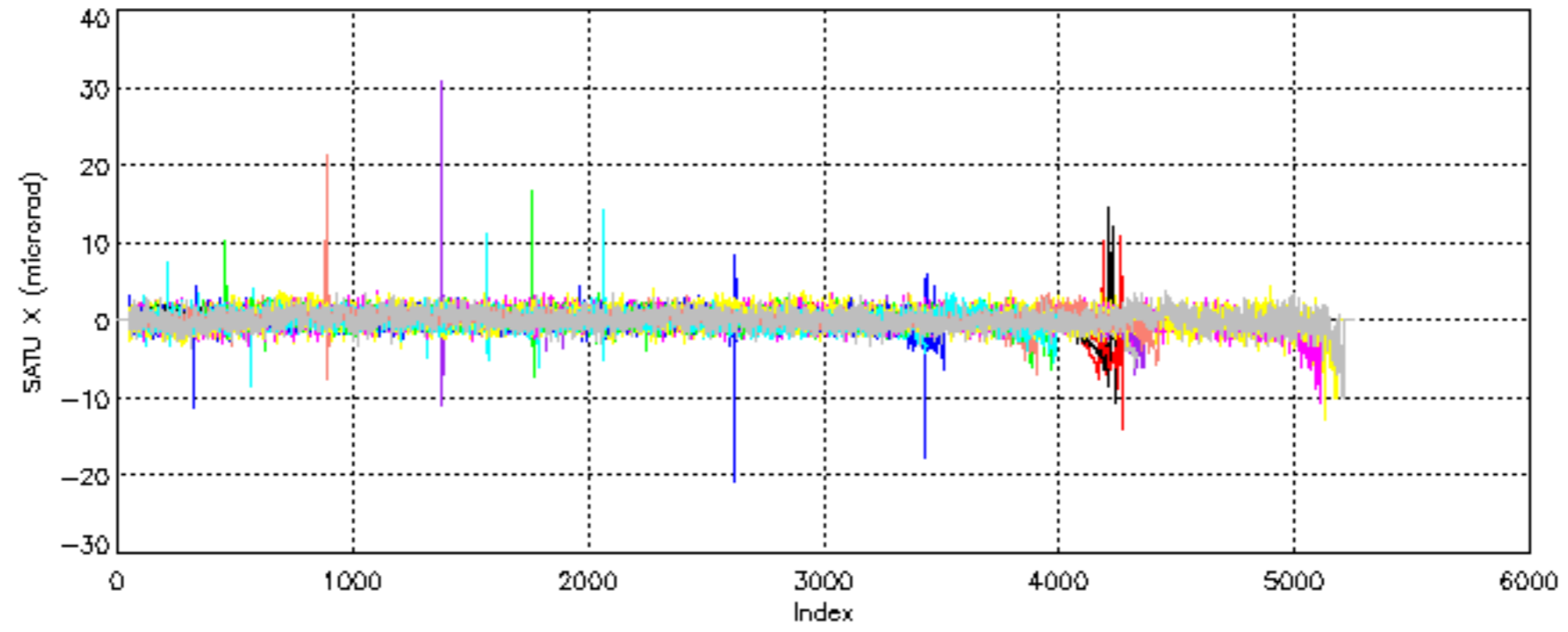


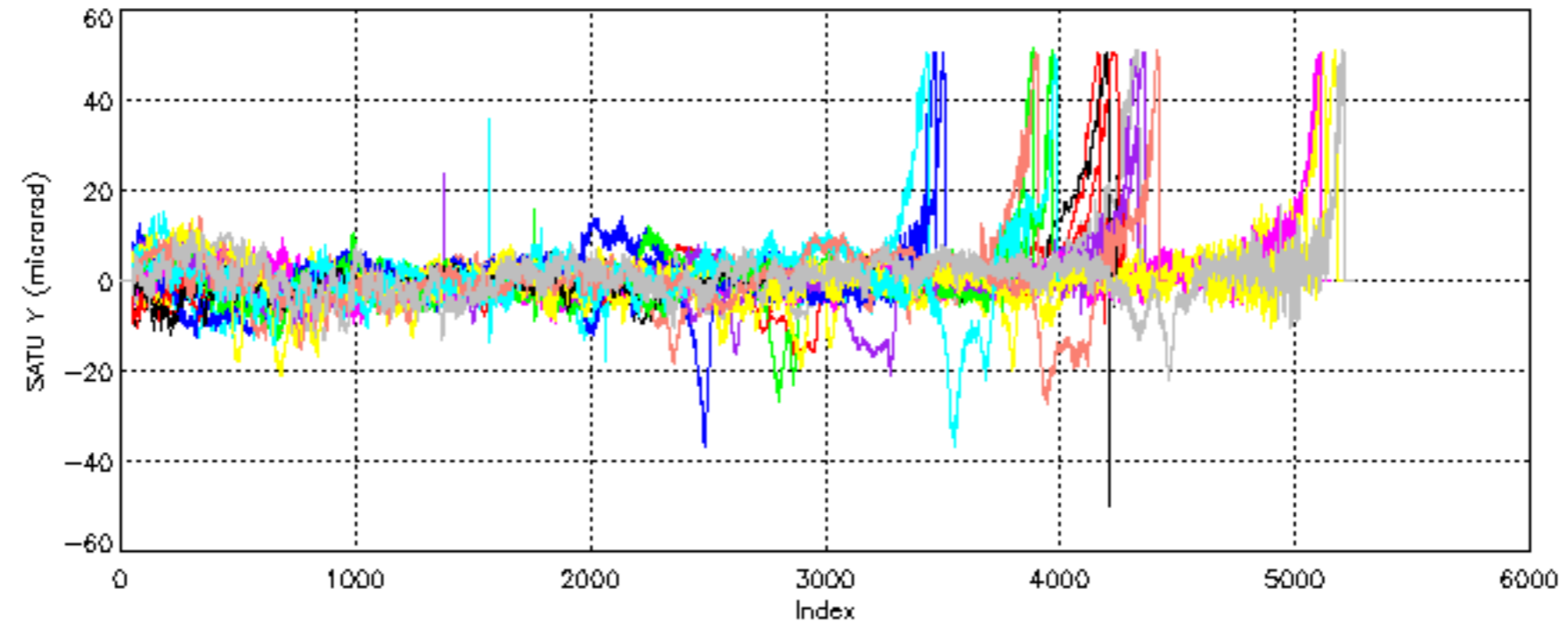
Tangent altitude at which the star is lost

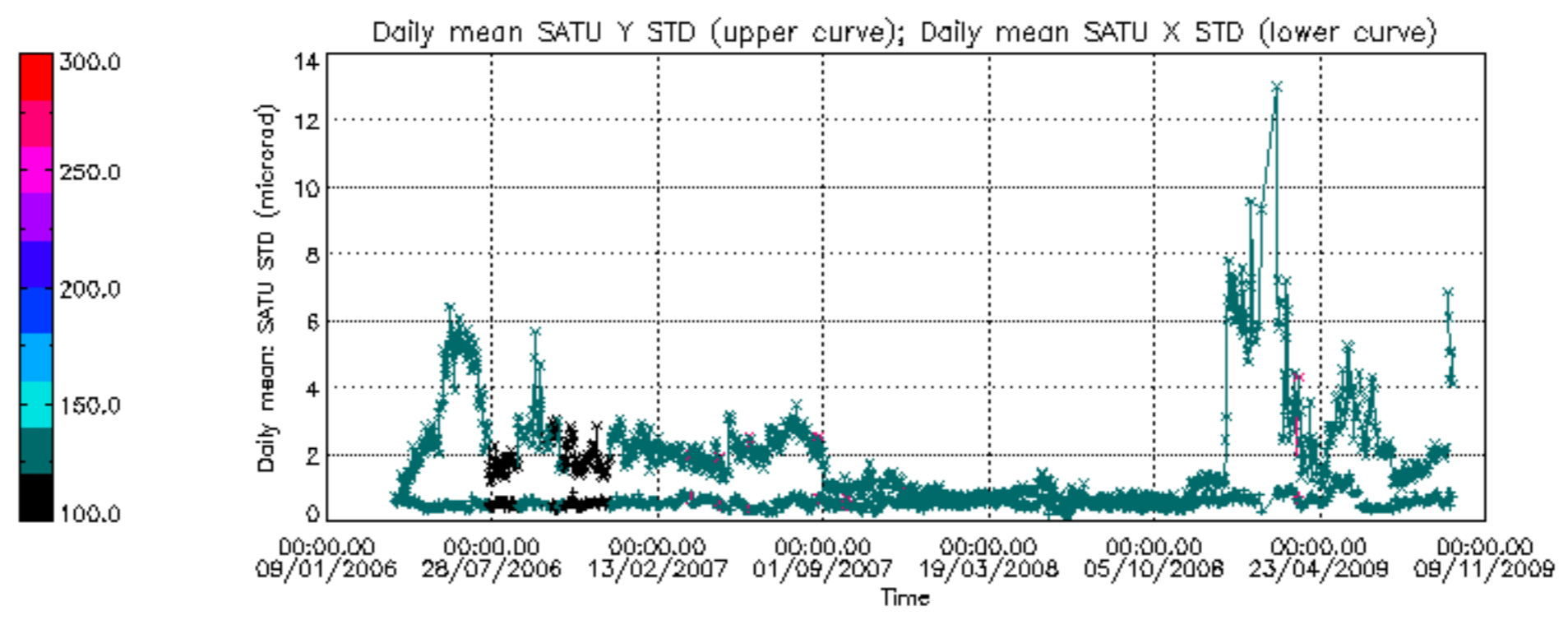














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 7; 1329.7; 01-SEP-2009 01:22:43; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39235  
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 13; 4378.2; 01-SEP-2009 02:13:31; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39235  
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 7; 962.7; 01-SEP-2009 02:57:12; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39236  
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 3; -1348.6; 01-SEP-2009 03:59:16; Dark ; 53.5; 151; 13Mu Gem ; 2.89; 3000;occ; 107; 0;39236  
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 7; -584.2; 01-SEP-2009 04:12:01; Dark ; 49.0; 47; 2Bet CMa ; 1.98; 28000;occ; 98; 0;39236  
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 9; -235.3; 01-SEP-2009 04:17:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39236  
 10; 489.9; 01-SEP-2009 04:29:55; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39237  
 11; 963.6; 01-SEP-2009 04:37:48; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39237  
 12; 1330.4; 01-SEP-2009 04:43:55; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39237  
 13; 2248.7; 01-SEP-2009 04:59:14; Bright; 70.0; 90; 54Alp Peg ; 2.49; 11000;occ; 140; 0;39237  
 14; 2500.2; 01-SEP-2009 05:03:25; Bright; 43.5; 164; 44Eta Peg ; 2.95; 5400;occ; 87; 0;39237  
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 2; 1332.8; 01-SEP-2009 19:49:21; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;39246  
 3; 2244.0; 01-SEP-2009 20:04:32; Bright; 46.0; 90; 54Alp Peg ; 2.49; 11000;occ; 92; 0;39246  
 4; 2495.9; 01-SEP-2009 20:08:44; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;39246

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6; 3263.2; 01-SEP-2009 20:21:32; Bright; 46.5; 76; 27Gam Cas ; 2.30; 30000;occ; 93; 0;39246
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7; 969.2; 01-SEP-2009 21:23:53; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39247
8; 1332.9; 01-SEP-2009 21:29:57; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39247
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14;	5876.8;	13-SEP-2009	18:06:51;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	39416
15;	6002.5;	13-SEP-2009	18:08:57;	Dark	;	51.0;	108;	Alp	Col	;	2.65;	15200;	occ;	102;	0;	39416
16;	6731.3;	13-SEP-2009	18:21:06;	Dark	;	53.5;	157;	The1Eri		;	2.91;	9300;	occ;	107;	0;	39416

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1;	1522.8;	13-SEP-2009	18:34:53;	Dark	;	58.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	117;	0;	39417
2;	2185.5;	13-SEP-2009	18:45:56;	Bright	;	50.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	100;	0;	39417
3;	2420.4;	13-SEP-2009	18:49:51;	Bright	;	42.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	84;	0;	39417
4;	2559.5;	13-SEP-2009	18:52:10;	Bright	;	47.5;	58;	21Alp	And	;	2.07;	11000;	occ;	95;	0;	39417
5;	3041.8;	13-SEP-2009	19:00:12;	Bright	;	41.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	83;	0;	39417
6;	3153.0;	13-SEP-2009	19:02:03;	Bright	;	44.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	88;	0;	39417
7;	4173.9;	13-SEP-2009	19:19:04;	Bright	;	63.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	126;	0;	39417
8;	4477.4;	13-SEP-2009	19:24:08;	Bright	;	61.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	122;	0;	39417
9;	4664.3;	13-SEP-2009	19:27:15;	Dark	;	59.5;	170;	27Eps	Gem	;	3.00;	9700;	occ;	119;	0;	39417
10;	4885.5;	13-SEP-2009	19:30:56;	Dark	;	56.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	112;	0;	39417
11;	4987.2;	13-SEP-2009	19:32:38;	Dark	;	50.5;	8;	10Alp	CMi	;	0.40;	6500;	occ;	101;	0;	39417
12;	5518.5;	13-SEP-2009	19:41:29;	Dark	;	55.5;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	111;	0;	39417
13;	5657.7;	13-SEP-2009	19:43:48;	Dark	;	46.5;	23;	21Eps	CMA	;	1.50;	26000;	occ;	93;	0;	39417
14;	5877.6;	13-SEP-2009	19:47:28;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	39417
15;	6003.9;	13-SEP-2009	19:49:34;	Dark	;	49.5;	108;	Alp	Col	;	2.65;	15200;	occ;	99;	0;	39417
16;	6732.1;	13-SEP-2009	20:01:43;	Dark	;	55.0;	157;	The1Eri		;	2.91;	9300;	occ;	110;	0;	39417

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1;	-514.4;	14-SEP-2009	00:43:20;	Dark	;	57.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	114;	0;	39420
2;	-375.8;	14-SEP-2009	00:45:38;	Dark	;	50.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	100;	0;	39420
3;	-155.7;	14-SEP-2009	00:49:18;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	39420
4;	-28.5;	14-SEP-2009	00:51:26;	Dark	;	51.0;	108;	Alp	Col	;	2.65;	15200;	occ;	102;	0;	39420
5;	699.4;	14-SEP-2009	01:03:33;	Dark	;	55.5;	157;	The1Eri		;	2.91;	9300;	occ;	111;	0;	39421
6;	1523.3;	14-SEP-2009	01:17:17;	Dark	;	58.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	117;	0;	39421
7;	2184.8;	14-SEP-2009	01:28:19;	Bright	;	58.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	116;	0;	39421
8;	2419.2;	14-SEP-2009	01:32:13;	Bright	;	40.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	80;	0;	39421
9;	2556.3;	14-SEP-2009	01:34:30;	Bright	;	49.5;	58;	21Alp	And	;	2.07;	11000;	occ;	99;	0;	39421
10;	3040.1;	14-SEP-2009	01:42:34;	Bright	;	37.0;	74;	11Bet	Cas	;	2.27;	6600;	occ;	74;	0;	39421
11;	3150.7;	14-SEP-2009	01:44:25;	Bright	;	43.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	87;	0;	39421
12;	4172.8;	14-SEP-2009	02:01:27;	Bright	;	52.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	104;	0;	39421
13;	4478.1;	14-SEP-2009	02:06:32;	Bright	;	44.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	89;	0;	39421
14;	4665.4;	14-SEP-2009	02:09:39;	Dark	;	63.0;	170;	27Eps	Gem	;	3.00;	9700;	occ;	126;	0;	39421
15;	4888.2;	14-SEP-2009	02:13:22;	Dark	;	40.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	80;	0;	39421
16;	4989.0;	14-SEP-2009	02:15:03;	Dark	;	58.0;	8;	10Alp	CMi	;	0.40;	6500;	occ;	116;	0;	39421

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1;	-513.6;	14-SEP-2009	02:23:56;	Dark	;	58.5;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	117;	0;	39421
2;	-375.1;	14-SEP-2009	02:26:15;	Dark	;	44.5;	23;	21Eps	CMA	;	1.50;	26000;	occ;	89;	0;	39421
3;	-154.8;	14-SEP-2009	02:29:55;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	39421
4;	-27.3;	14-SEP-2009	02:32:03;	Dark	;	54.5;	108;	Alp	Col	;	2.65;	15200;	occ;	109;	0;	39421
5;	700.4;	14-SEP-2009	02:44:10;	Dark	;	54.0;	157;	The1Eri		;	2.91;	9300;	occ;	108;	0;	39422
6;	1523.6;	14-SEP-2009	02:57:53;	Dark	;	58.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	116;	0;	39422
7;	2184.5;	14-SEP-2009	03:08:54;	Bright	;	41.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	82;	0;	39422
8;	2418.8;	14-SEP-2009	03:12:49;	Bright	;	42.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	84;	0;	39422
9;	2555.5;	14-SEP-2009	03:15:05;	Bright	;	72.0;	58;	21Alp	And	;	2.07;	11000;	occ;	144;	0;	39422
10;	3039.6;	14-SEP-2009	03:23:09;	Bright	;	41.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	83;	0;	39422
11;	3150.2;	14-SEP-2009	03:25:00;	Bright	;	42.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	85;	0;	39422

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1;	-1863.4;	14-SEP-2009	03:42:02;	Bright	;	47.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	94;	0;	39422
2;	-1557.9;	14-SEP-2009	03:47:08;	Bright	;	61.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	122;	0;	39422
3;	-1370.3;	14-SEP-2009	03:50:16;	Dark	;	60.5;	170;	27Eps	Gem	;	3.00;	9700;	occ;	121;	0;	39422
4;	-1147.2;	14-SEP-2009	03:53:59;	Dark	;	32.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	64;	0;	39422



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5; -1046.4; 14-SEP-2009 03:55:39; Dark ; 61.0; 8; 10Alp CMI ; 0.40; 6500;occ; 122; 0;39422
6; -512.6; 14-SEP-2009 04:04:33; Dark ; 56.5; 1; 9Alp CMA ; -1.44; 11000;occ; 113; 0;39422
7; -374.4; 14-SEP-2009 04:06:51; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39422
8; -153.8; 14-SEP-2009 04:10:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39422
9; -26.2; 14-SEP-2009 04:12:40; Dark ; 49.5; 108; Alp Col ; 2.65; 15200;occ; 99; 0;39422
10; 701.5; 14-SEP-2009 04:24:47; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39423
11; 1523.9; 14-SEP-2009 04:38:30; Dark ; 56.5; 52; 16Bet Cet ; 2.04; 4500;occ; 113; 0;39423
12; 2184.0; 14-SEP-2009 04:49:30; Bright; 58.0; 90; 54Alp Peg ; 2.49; 11000;occ; 116; 0;39423
13; 2418.6; 14-SEP-2009 04:53:24; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;39423
14; 2554.9; 14-SEP-2009 04:55:41; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39423
15; 3038.9; 14-SEP-2009 05:03:45; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39423
16; 3149.5; 14-SEP-2009 05:05:35; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39423
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1; -1863.7; 14-SEP-2009 05:22:38; Bright; 47.0; 42; 34Bet Aur ; 1.90; 10200;occ; 94; 0;39423
2; -1557.7; 14-SEP-2009 05:27:44; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;39423
3; -1369.8; 14-SEP-2009 05:30:52; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39423
4; -1146.6; 14-SEP-2009 05:34:35; Dark ; 32.0; 44; 24Gam Gem ; 1.93; 11000;occ; 64; 0;39423
5; -1046.1; 14-SEP-2009 05:36:16; Dark ; 57.5; 8; 10Alp CMI ; 0.40; 6500;occ; 115; 0;39423
6; -511.6; 14-SEP-2009 05:45:10; Dark ; 59.0; 1; 9Alp CMA ; -1.44; 11000;occ; 118; 0;39423
7; -373.7; 14-SEP-2009 05:47:28; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;39423
8; -152.9; 14-SEP-2009 05:51:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39423
9; -24.8; 14-SEP-2009 05:53:17; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39423
10; 702.3; 14-SEP-2009 06:05:24; Dark ; 56.5; 157; The1Eri ; 2.91; 9300;occ; 113; 0;39424
11; 1523.9; 14-SEP-2009 06:19:06; Dark ; 59.5; 52; 16Bet Cet ; 2.04; 4500;occ; 119; 0;39424
12; 2183.9; 14-SEP-2009 06:30:06; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;39424
13; 2284.9; 14-SEP-2009 06:31:47; Bright; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;39424
14; 2418.3; 14-SEP-2009 06:34:00; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;39424
15; 2554.1; 14-SEP-2009 06:36:16; Bright; 49.0; 58; 21Alp And ; 2.07; 11000;occ; 98; 0;39424
16; 3038.5; 14-SEP-2009 06:44:20; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39424
17; 3148.9; 14-SEP-2009 06:46:11; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39424
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2; 2182.4; 14-SEP-2009 19:54:52; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;39432
3; 2279.8; 14-SEP-2009 19:56:29; Bright; 56.0; 140; 88Gam Peg ; 2.83; 26000;occ; 112; 0;39432
4; 2416.0; 14-SEP-2009 19:58:45; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39432
5; 2548.0; 14-SEP-2009 20:00:57; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39432
6; 3034.7; 14-SEP-2009 20:09:04; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39432
7; 3144.4; 14-SEP-2009 20:10:54; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39432
8; 4479.4; 14-SEP-2009 20:33:09; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39432
9; 4669.2; 14-SEP-2009 20:36:18; Dark ; 66.0; 170; 27Eps Gem ; 3.00; 9700;occ; 132; 0;39432
10; 4994.9; 14-SEP-2009 20:41:44; Dark ; 56.0; 8; 10Alp CMI ; 0.40; 6500;occ; 112; 0;39432
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1; -502.5; 14-SEP-2009 20:50:43; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;39432
2; -366.3; 14-SEP-2009 20:52:59; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;39432
3; -144.8; 14-SEP-2009 20:56:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39432
4; -14.1; 14-SEP-2009 20:58:51; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39432
5; 711.7; 14-SEP-2009 21:10:57; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39433
6; 1525.1; 14-SEP-2009 21:24:30; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39433
7; 2182.2; 14-SEP-2009 21:35:27; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;39433
8; 2279.0; 14-SEP-2009 21:37:04; Bright; 50.0; 140; 88Gam Peg ; 2.83; 26000;occ; 100; 0;39433
9; 2415.6; 14-SEP-2009 21:39:21; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;39433
10; 2547.0; 14-SEP-2009 21:41:32; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39433
11; 3034.3; 14-SEP-2009 21:49:39; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39433
12; 3143.9; 14-SEP-2009 21:51:29; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39433
13; 4479.3; 14-SEP-2009 22:13:44; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;39433
14; 4669.5; 14-SEP-2009 22:16:55; Dark ; 64.5; 170; 27Eps Gem ; 3.00; 9700;occ; 129; 0;39433
15; 4995.1; 14-SEP-2009 22:22:20; Dark ; 61.0; 8; 10Alp CMI ; 0.40; 6500;occ; 122; 0;39433
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2; -365.4; 14-SEP-2009 22:33:36; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;39433
3; -143.9; 14-SEP-2009 22:37:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39433
4; -13.0; 14-SEP-2009 22:39:28; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;39433
5; 712.9; 14-SEP-2009 22:51:34; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39434
6; 1525.1; 14-SEP-2009 23:05:06; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39434
7; 2181.9; 14-SEP-2009 23:16:03; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;39434
8; 2278.3; 14-SEP-2009 23:17:39; Bright; 49.5; 140; 88Gam Peg ; 2.83; 26000;occ; 99; 0;39434
9; 2415.5; 14-SEP-2009 23:19:57; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39434
10; 2546.5; 14-SEP-2009 23:22:08; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39434

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11; 3033.8; 14-SEP-2009 23:30:15; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;39434
12; 3143.1; 14-SEP-2009 23:32:04; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;39434
13; 4479.6; 14-SEP-2009 23:54:21; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;39434
14; 4669.9; 14-SEP-2009 23:57:31; Dark ; 65.0; 170; 27Eps Gem ; 3.00; 9700;occ; 130; 0;39434
15; 4995.6; 15-SEP-2009 00:02:57; Dark ; 58.5; 8; 10Alp CMi ; 0.40; 6500;occ; 117; 0;39434
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 2;-1557.7; 14-SEP-2009 07:08:20; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;39424
 3;-1369.5; 14-SEP-2009 07:11:28; Dark ; 61.5; 170; 27Eps Gem ; 3.00; 9700;occ; 123; 0;39424
 4;-1045.5; 14-SEP-2009 07:16:52; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;39424
 5; -510.6; 14-SEP-2009 07:25:47; Dark ; 54.5; 1; 9Alp CMA ; -1.44; 11000;occ; 109; 0;39424
 6; -372.6; 14-SEP-2009 07:28:05; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;39424
 7; -152.0; 14-SEP-2009 07:31:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39424
 8; -23.9; 14-SEP-2009 07:33:54; Dark ; 49.0; 108; Alp Col ; 2.65; 15200;occ; 98; 0;39424
 9; 703.5; 14-SEP-2009 07:46:01; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39425
10; 1524.0; 14-SEP-2009 07:59:42; Dark ; 60.0; 52; 16Bet Cet ; 2.04; 4500;occ; 120; 0;39425
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 2; 2284.2; 14-SEP-2009 08:12:22; Bright; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;39425
 3; 2417.9; 14-SEP-2009 08:14:36; Bright; 42.5; 93; 53Bet Peg ; 2.52; 3100;occ; 85; 0;39425
 4; 2553.3; 14-SEP-2009 08:16:51; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;39425
 5; 3038.2; 14-SEP-2009 08:24:56; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39425
 6; 3148.3; 14-SEP-2009 08:26:46; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39425
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 5; 3091.5; 21-SEP-2009 16:28:40; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;39530
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 8; 5647.5; 21-SEP-2009 17:11:16; Dark ; 75.0; 1; 9Alp CMA ; -1.44; 11000;occ; 150; 0;39530
 9; 5757.8; 21-SEP-2009 17:13:07; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;39530
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 4; 2992.8; 21-SEP-2009 19:48:14; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39532
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 7; 2224.8; 22-SEP-2009 02:17:49; Bright; 44.5; 140; 88Gam Peg ; 2.83; 26000;occ; 89; 0;39536
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7; 861.6; 26-SEP-2009 04:50:25; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;39595
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