

# GOMOS Daily Report 24-NOV-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	27NOV2009 04:41:55
Data source version	GOMOS/5.00L04
Start time of products	24NOV2009 00:00:40
Stop time of products	24NOV2009 23:58:53
Store outputs in DB	Yes
Nb of level 1b prods	112
Nb of prods with errors	2

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

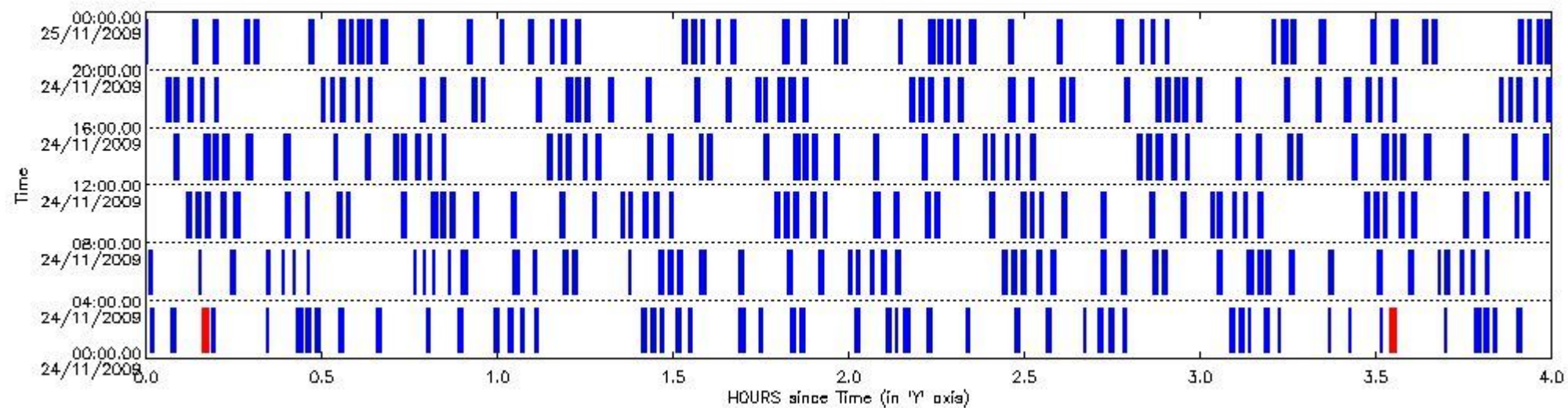
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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-NOV-2009 00:09:33	4GamCrv	100	40436
24-NOV-2009 03:32:20	2EpsCrv	171	40438

### 2.4 Summary of processed GOM\_TRA\_1P products

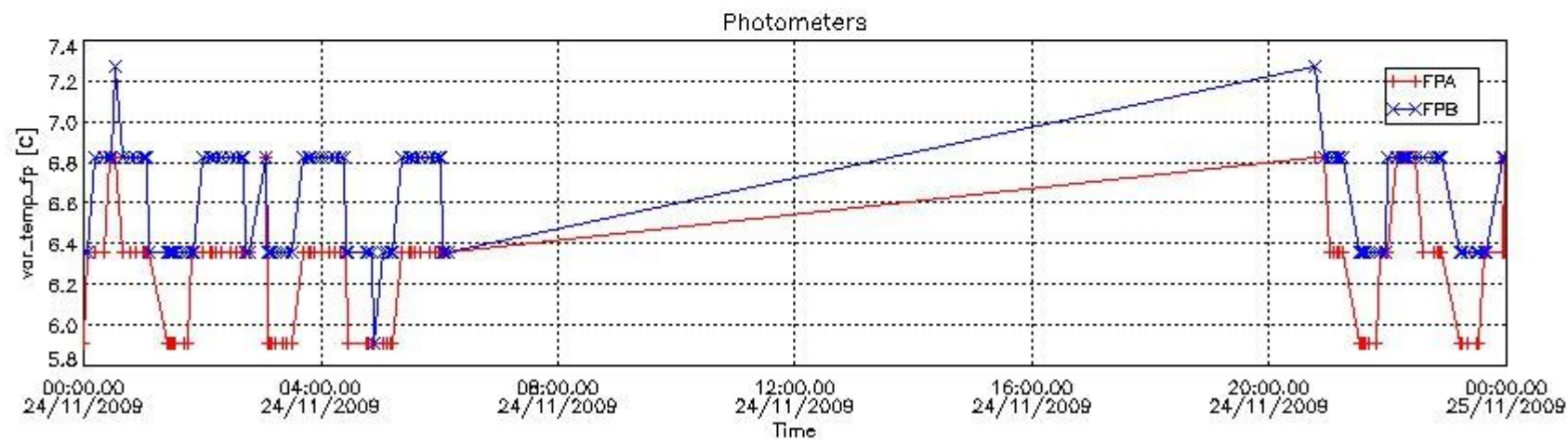
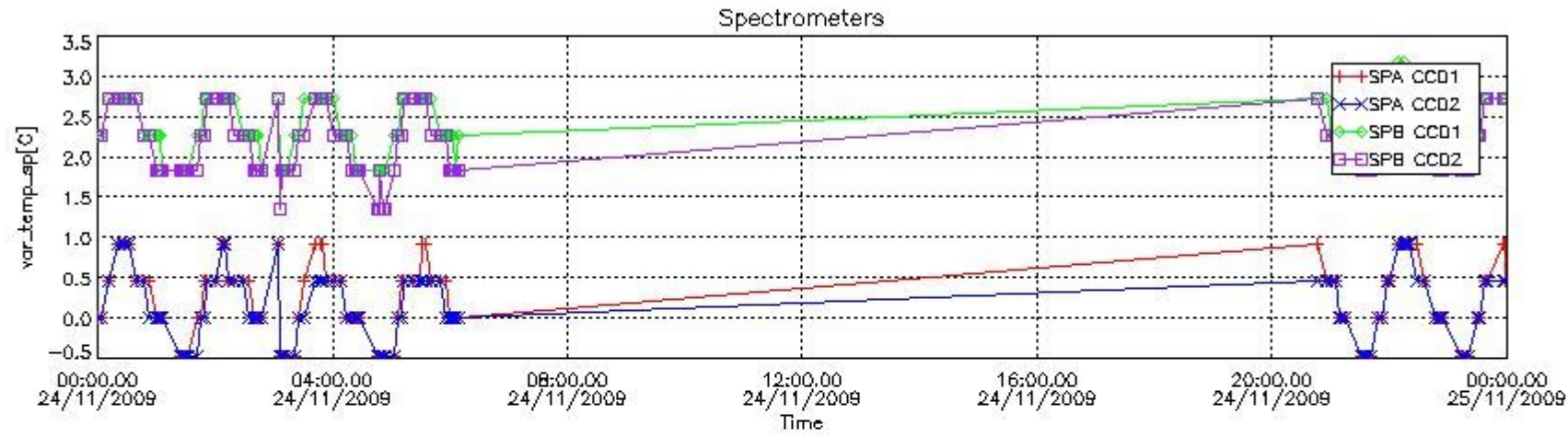
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091124_000040_000000272084_00302_40436_4369.N1	24-NOV-2009 00:00:40	Twilight	26.500	62	94Bet Leo	2.1360	9700.0	53	40436	No
2	GOM_TRA_1PNPDE20091124_0000406_000000572084_00302_40436_4370.N1	24-NOV-2009 00:04:06	Bright	56.500	121	29Gam Vir	2.7400	7200.0	113	40436	No
3	GOM_TRA_1PNPDE20091124_001100_000000412084_00302_40436_4617.N1	24-NOV-2009 00:11:00	Twilight	40.500	171	2Eps Crv	3.0010	4250.0	81	40436	No
4	GOM_TRA_1PNPDE20091124_002027_000000272084_00303_40437_4618.N1	24-NOV-2009 00:20:27	Dark	27.000	113	Mu Vel	2.6920	5000.0	54	40437	No
5	GOM_TRA_1PNPDE20091124_002716_000000402084_00303_40437_4619.N1	24-NOV-2009 00:27:16	Dark	40.000	41	Eps Car	1.8600	4100.0	80	40437	No
6	GOM_TRA_1PNPDE20091124_002847_000000502084_00303_40437_4620.N1	24-NOV-2009 00:28:47	Dark	50.000	34	Gam2Vel	1.7930	23000.	100	40437	No
7	GOM_TRA_1PNPDE20091124_003245_000000512084_00303_40437_4621.N1	24-NOV-2009 00:32:45	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	40437	No
8	GOM_TRA_1PNPDE20091124_003920_000000482084_00303_40437_4622.N1	24-NOV-2009 00:39:20	Dark	48.000	108	Alp Col	2.6520	15200.	96	40437	No
9	GOM_TRA_1PNPDE20091124_004742_000000472084_00303_40437_4623.N1	24-NOV-2009 00:47:42	Straylight	47.000	165	34Gam Eri	2.9500	3200.0	94	40437	No



69	GOM_TRA_1PNPDE20091124_055455_000000462084_00306_40440_4364.N1	24-NOV-2009 05:54:55	Twilight	46.000	94	92Alp Cet	2.5260	3100.0	92	40440	No
70	GOM_TRA_1PNPDE20091124_055956_000000292084_00306_40440_4365.N1	24-NOV-2009 05:59:56	Twilight	29.000	13	87Alp Tau	0.86700	3800.0	58	40440	No
71	GOM_TRA_1PNPDE20091124_060111_000000412084_00306_40440_4366.N1	24-NOV-2009 06:01:11	Bright	41.000	146	25Eta Tau	2.8730	15200.	82	40440	No
72	GOM_TRA_1PNPDE20091124_060340_000000392084_00306_40440_4367.N1	24-NOV-2009 06:03:40	Bright	39.000	150	44Zet Per	2.8900	28000.	78	40440	No
73	GOM_TRA_1PNPDE20091124_060537_000000382084_00306_40440_4368.N1	24-NOV-2009 06:05:37	Bright	37.500	79	26Bet Per	2.3100	13100.	75	40440	No
74	GOM_TRA_1PNPDE20091124_060804_000000382084_00306_40440_4369.N1	24-NOV-2009 06:08:04	Bright	37.500	175	39Del Per	3.0100	19400.	75	40440	No
75	GOM_TRA_1PNPDE20091124_204637_000000482084_00315_40449_4412.N1	24-NOV-2009 20:46:37	Dark	47.500	108	Alp Col	2.6520	15200.	95	40449	No
76	GOM_TRA_1PNPDE20091124_205455_000000472084_00315_40449_4413.N1	24-NOV-2009 20:54:55	Straylight	46.500	165	34Gam Eri	2.9500	3200.0	93	40449	No
77	GOM_TRA_1PNPDE20091124_210026_000000392084_00315_40449_4414.N1	24-NOV-2009 21:00:26	Twilight	38.500	94	92Alp Cet	2.5260	3100.0	77	40449	Yes
78	GOM_TRA_1PNPDE20091124_210514_000000572084_00315_40449_4415.N1	24-NOV-2009 21:05:14	Bright	57.000	13	87Alp Tau	0.86700	3800.0	114	40449	No
79	GOM_TRA_1PNPDE20091124_210901_000000402084_00315_40449_4416.N1	24-NOV-2009 21:09:01	Bright	39.500	150	44Zet Per	2.8900	28000.	79	40449	No
80	GOM_TRA_1PNPDE20091124_211059_000000392084_00315_40449_4417.N1	24-NOV-2009 21:10:59	Bright	39.000	79	26Bet Per	2.3100	13100.	78	40449	No
81	GOM_TRA_1PNPDE20091124_211324_000000372084_00315_40449_4418.N1	24-NOV-2009 21:13:24	Bright	37.000	175	39Del Per	3.0100	19400.	74	40449	No
82	GOM_TRA_1PNPDE20091124_213134_000000432084_00315_40449_4419.N1	24-NOV-2009 21:31:34	Bright	43.000	36	50Alp UMa	1.8000	6300.0	86	40449	No
83	GOM_TRA_1PNPDE20091124_213312_000000422084_00315_40449_4420.N1	24-NOV-2009 21:33:12	Bright	42.000	82	48Bet UMa	2.3650	10600.	84	40449	No
84	GOM_TRA_1PNPDE20091124_213445_000000372084_00315_40449_4421.N1	24-NOV-2009 21:34:45	Bright	36.500	55	79Zet UMa	2.0600	10200.	73	40449	No
85	GOM_TRA_1PNPDE20091124_213731_000000302084_00315_40449_4422.N1	24-NOV-2009 21:37:31	Twilight	30.000	174	52Psi UMa	3.0040	4400.0	60	40449	No
86	GOM_TRA_1PNPDE20091124_213947_000000562084_00315_40449_4423.N1	24-NOV-2009 21:39:47	Bright	56.000	152	12Alp2CVn	2.8900	11000.	112	40449	No
87	GOM_TRA_1PNPDE20091124_214834_000000702084_00315_40449_4424.N1	24-NOV-2009 21:48:34	Bright	70.000	62	94Bet Leo	2.1360	9700.0	140	40449	No
88	GOM_TRA_1PNPDE20091124_215159_000000402084_00315_40449_4425.N1	24-NOV-2009 21:51:59	Bright	39.500	121	29Gam Vir	2.7400	7200.0	79	40449	No
89	GOM_TRA_1PNPDE20091124_215722_000000452084_00315_40449_4422.N1	24-NOV-2009 21:57:22	Twilight	44.500	100	4Gam Crv	2.5800	13100.	89	40449	No
90	GOM_TRA_1PNPDE20091124_215856_000000462084_00315_40449_4423.N1	24-NOV-2009 21:58:56	Twilight	45.500	171	2Eps Crv	3.0010	4250.0	91	40449	No
91	GOM_TRA_1PNPDE20091124_220823_000000462084_00316_40450_4424.N1	24-NOV-2009 22:08:23	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	40450	No
92	GOM_TRA_1PNPDE20091124_221511_000000522084_00316_40450_4425.N1	24-NOV-2009 22:15:11	Dark	51.500	41	Eps Car	1.8600	4100.0	103	40450	No
93	GOM_TRA_1PNPDE20091124_221646_000000552084_00316_40450_4426.N1	24-NOV-2009 22:16:46	Dark	54.500	34	Gam2Vel	1.7930	23000.	109	40450	No
94	GOM_TRA_1PNPDE20091124_221816_000000442084_00316_40450_4427.N1	24-NOV-2009 22:18:16	Dark	44.000	70	Zet Pup	2.2460	39000.	88	40450	No
95	GOM_TRA_1PNPDE20091124_222039_000000512084_00316_40450_4428.N1	24-NOV-2009 22:20:39	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	40450	No
96	GOM_TRA_1PNPDE20091124_222714_000000482084_00316_40450_4429.N1	24-NOV-2009 22:27:14	Dark	48.000	108	Alp Col	2.6520	15200.	96	40450	No
97	GOM_TRA_1PNPDE20091124_223531_000000462084_00316_40450_4430.N1	24-NOV-2009 22:35:31	Straylight	45.500	165	34Gam Eri	2.9500	3200.0	91	40450	No
98	GOM_TRA_1PNPDE20091124_224550_000000642084_00316_40450_4431.N1	24-NOV-2009 22:45:50	Bright	64.000	13	87Alp Tau	0.86700	3800.0	128	40450	No
99	GOM_TRA_1PNPDE20091124_224936_000000412084_00316_40450_4432.N1	24-NOV-2009 22:49:36	Bright	40.500	150	44Zet Per	2.8900	28000.	81	40450	No
100	GOM_TRA_1PNPDE20091124_225134_000000382084_00316_40450_4433.N1	24-NOV-2009 22:51:34	Bright	38.000	79	26Bet Per	2.3100	13100.	76	40450	No
101	GOM_TRA_1PNPDE20091124_225400_000000372084_00316_40450_4434.N1	24-NOV-2009 22:54:00	Bright	37.000	175	39Del Per	3.0100	19400.	74	40450	No
102	GOM_TRA_1PNPDE20091124_231210_000000412084_00316_40450_4435.N1	24-NOV-2009 23:12:10	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	40450	No
103	GOM_TRA_1PNPDE20091124_231348_000000652084_00316_40450_4436.N1	24-NOV-2009 23:13:48	Bright	65.000	82	48Bet UMa	2.3650	10600.	130	40450	No
104	GOM_TRA_1PNPDE20091124_231521_000000532084_00316_40450_4437.N1	24-NOV-2009 23:15:21	Bright	53.000	55	79Zet UMa	2.0600	10200.	106	40450	No
105	GOM_TRA_1PNPDE20091124_232022_000000562084_00316_40450_4438.N1	24-NOV-2009 23:20:22	Bright	56.000	152	12Alp2CVn	2.8900	11000.	112	40450	No
106	GOM_TRA_1PNPDE20091124_232910_000000452084_00316_40450_4439.N1	24-NOV-2009 23:29:10	Bright	44.500	62	94Bet Leo	2.1360	9700.0	89	40450	No
107	GOM_TRA_1PNPDE20091124_233236_000000572084_00316_40450_4440.N1	24-NOV-2009 23:32:36	Bright	57.000	121	29Gam Vir	2.7400	7200.0	114	40450	No
108	GOM_TRA_1PNPDE20091124_233758_000000442084_00316_40450_4424.N1	24-NOV-2009 23:37:58	Twilight	44.000	100	4Gam Crv	2.5800	13100.	88	40450	No
109	GOM_TRA_1PNPDE20091124_233932_000000452084_00316_40450_4425.N1	24-NOV-2009 23:39:32	Twilight	44.500	171	2Eps Crv	3.0010	4250.0	89	40450	No
110	GOM_TRA_1PNPDE20091124_235548_000000452084_00317_40451_4426.N1	24-NOV-2009 23:55:48	Dark	45.000	41	Eps Car	1.8600	4100.0	90	40451	No
111	GOM_TRA_1PNPDE20091124_235723_000000492084_00317_40451_4427.N1	24-NOV-2009 23:57:23	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	40451	No
112	GOM_TRA_1PNPDE20091124_235853_000000442084_00317_40451_4428.N1	24-NOV-2009 23:58:53	Dark	44.000	70	Zet Pup	2.2460	39000.	88	40451	No

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





#### 4. Overview of dark signal processing per product

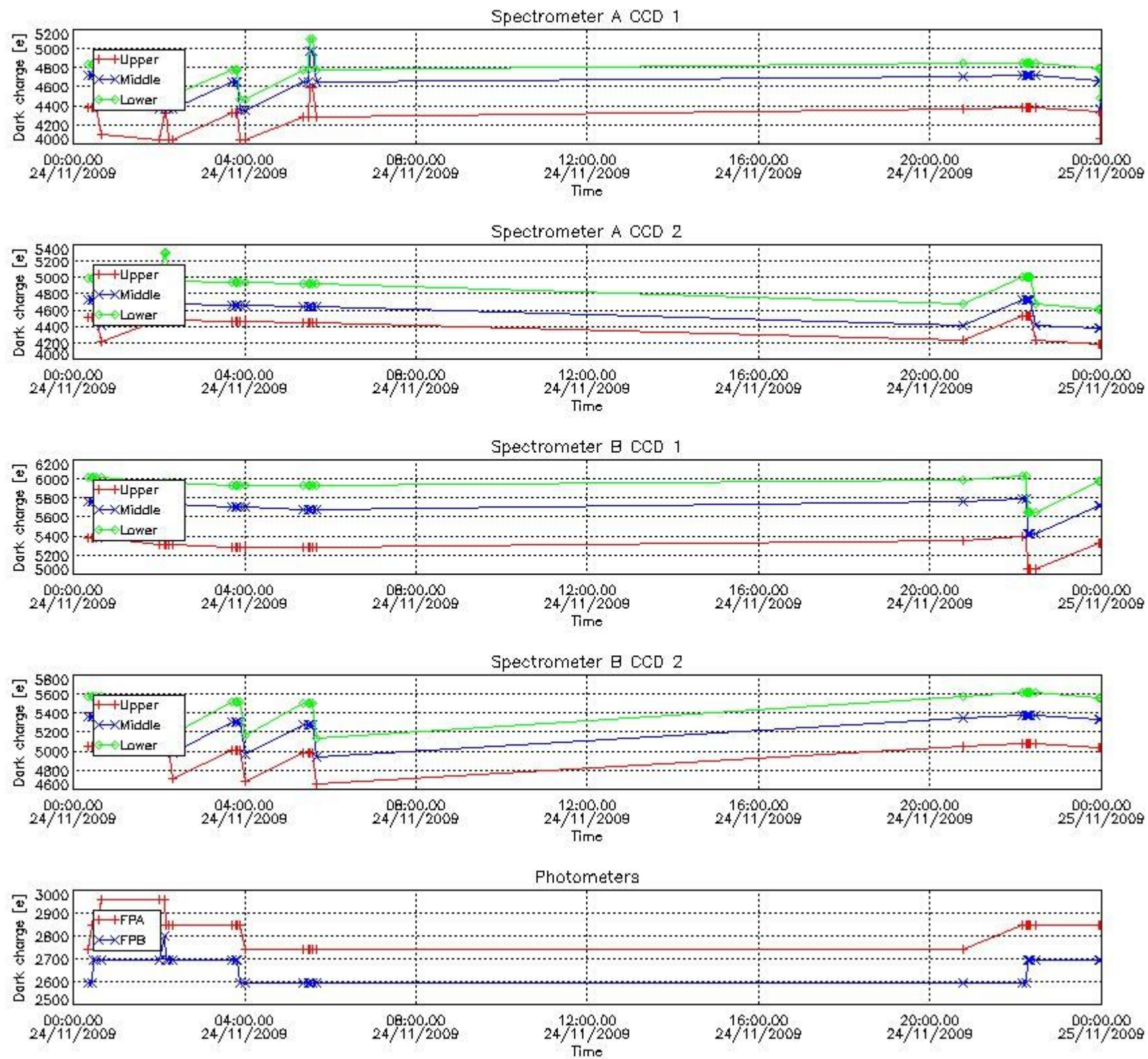
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091124_204637_000000482084_00315_40449_4412.N1	DC map used
GOM_TRA_1PNPDE20091124_205455_000000472084_00315_40449_4413.N1	DC map used
GOM_TRA_1PNPDE20091124_210026_000000392084_00315_40449_4414.N1	DC map used
GOM_TRA_1PNPDE20091124_210514_000000572084_00315_40449_4415.N1	DC map used
GOM_TRA_1PNPDE20091124_210901_000000402084_00315_40449_4416.N1	DC map used
GOM_TRA_1PNPDE20091124_211059_000000392084_00315_40449_4417.N1	DC map used
GOM_TRA_1PNPDE20091124_211324_000000372084_00315_40449_4418.N1	DC map used
GOM_TRA_1PNPDE20091124_213134_000000432084_00315_40449_4419.N1	DC map used
GOM_TRA_1PNPDE20091124_213312_000000422084_00315_40449_4420.N1	DC map used
GOM_TRA_1PNPDE20091124_213445_000000372084_00315_40449_4421.N1	DC map used
GOM_TRA_1PNPDE20091124_213731_000000302084_00315_40449_4422.N1	DC map used
GOM_TRA_1PNPDE20091124_213947_000000562084_00315_40449_4423.N1	DC map used
GOM_TRA_1PNPDE20091124_214834_000000702084_00315_40449_4424.N1	DC map used
GOM_TRA_1PNPDE20091124_215159_000000402084_00315_40449_4425.N1	DC map used

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



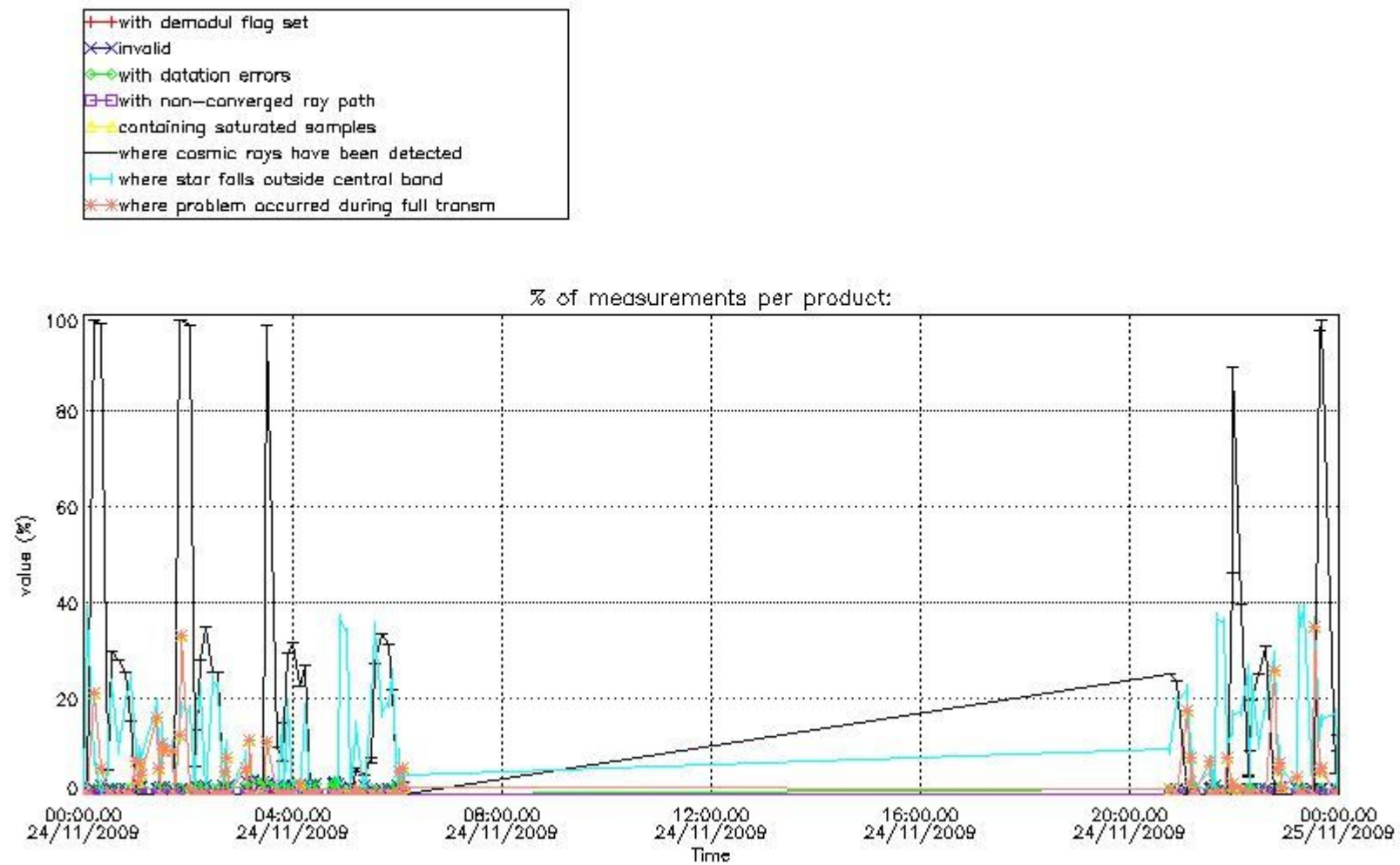
5. Demodulation flag and quality information monitoring

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:

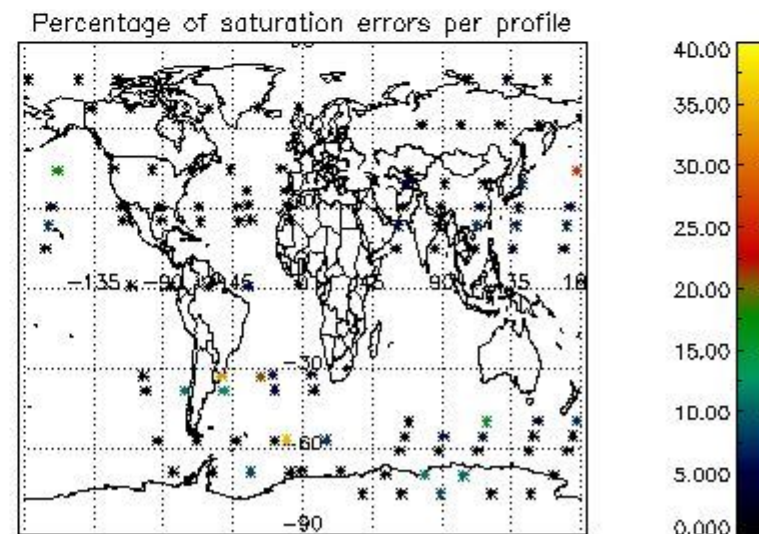
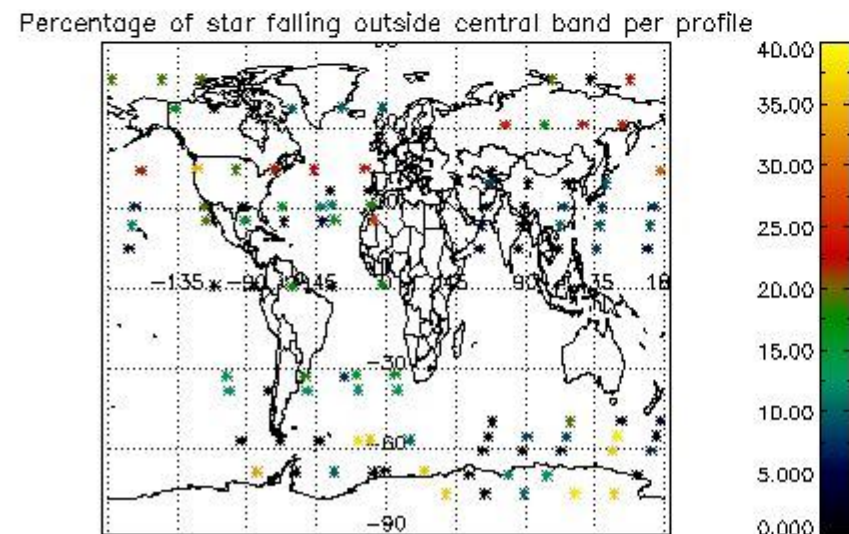
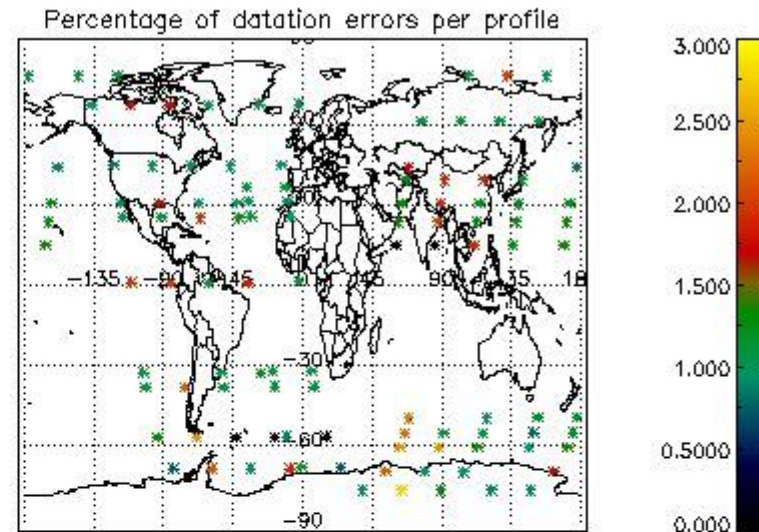
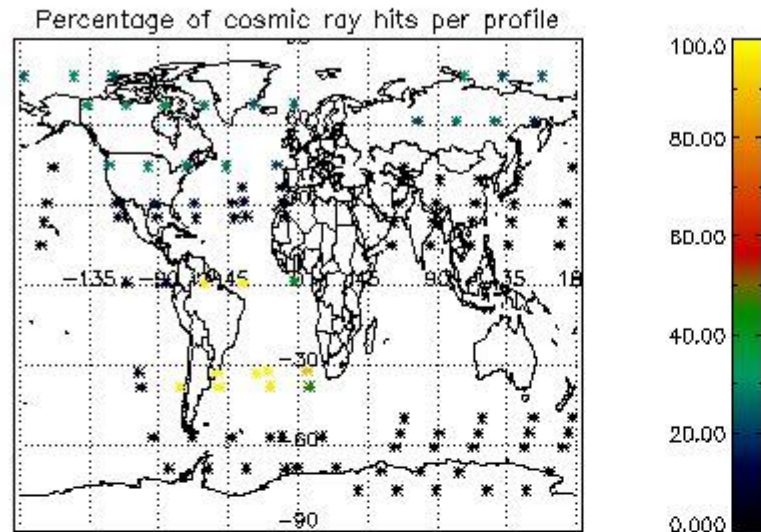
At least one measurement with demodulation flag set:	40.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





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

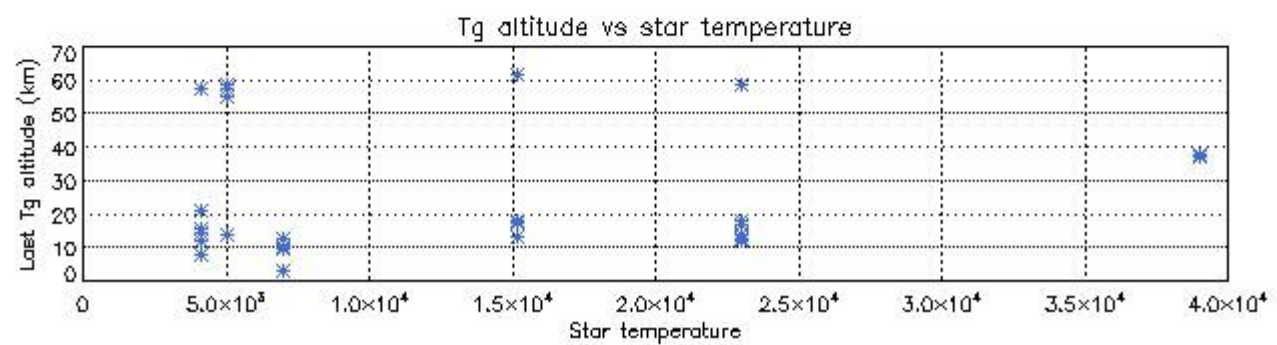
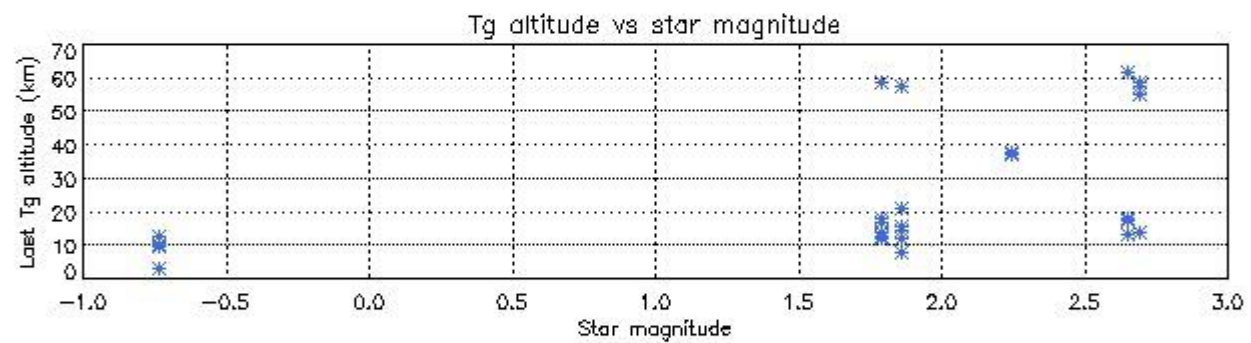
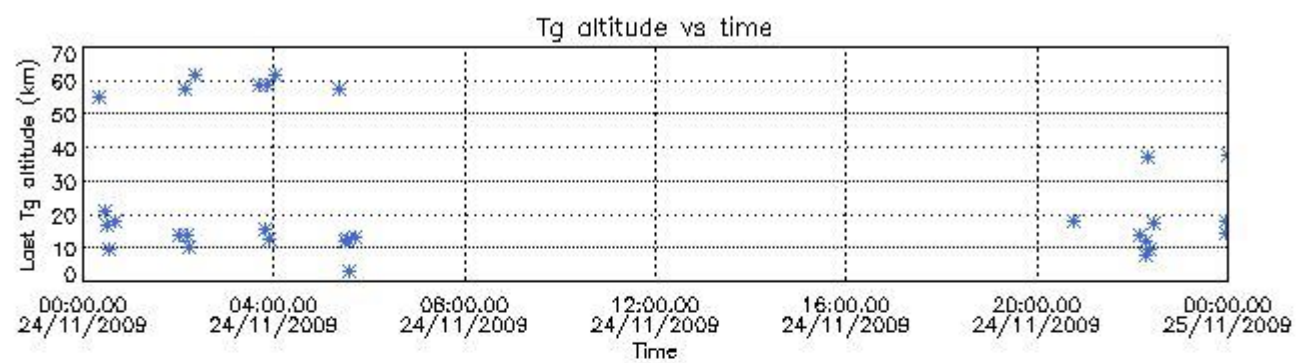
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	25.587	16.450	14.586
St. deviation:	19.817	7.5936	2.6870
Maximum:	61.764	26.882	19.137
Minimum:	2.9650	3.3457	12.147
Number of data:	30.000	42.000	5.0000

### 6.2 Plot for DARK limb products

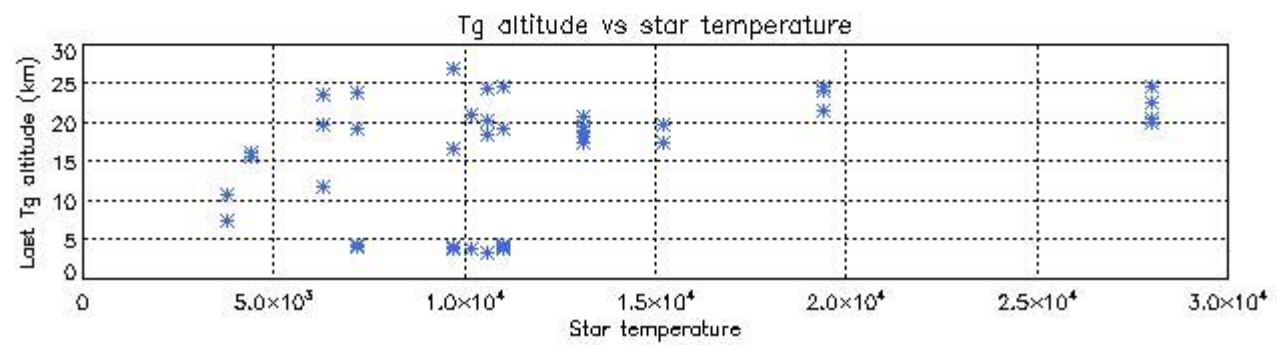
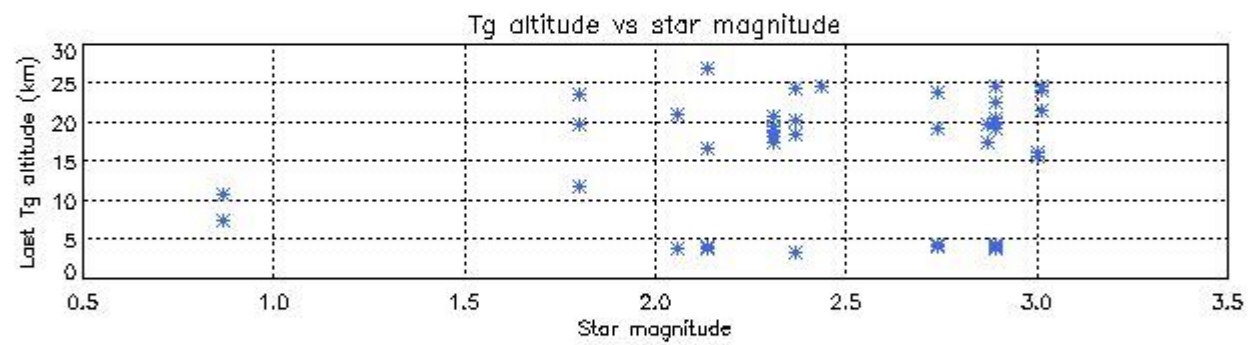
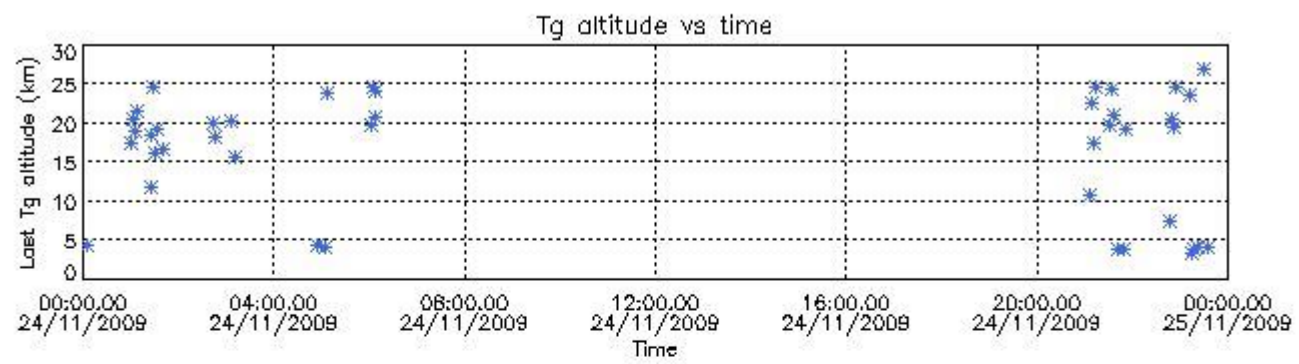


Tangent altitude at which the star is lost



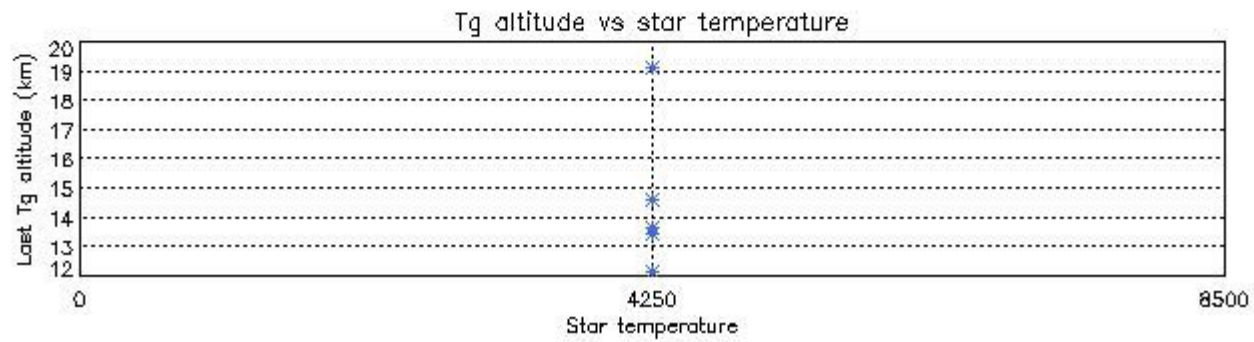
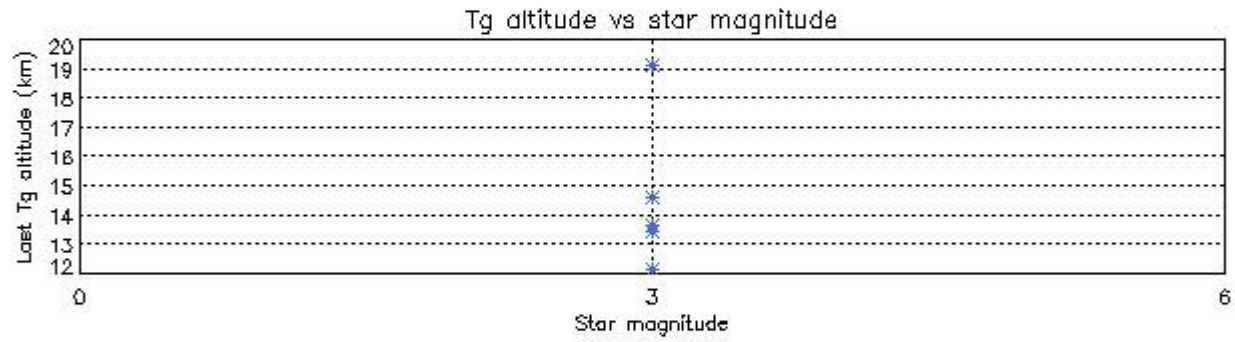
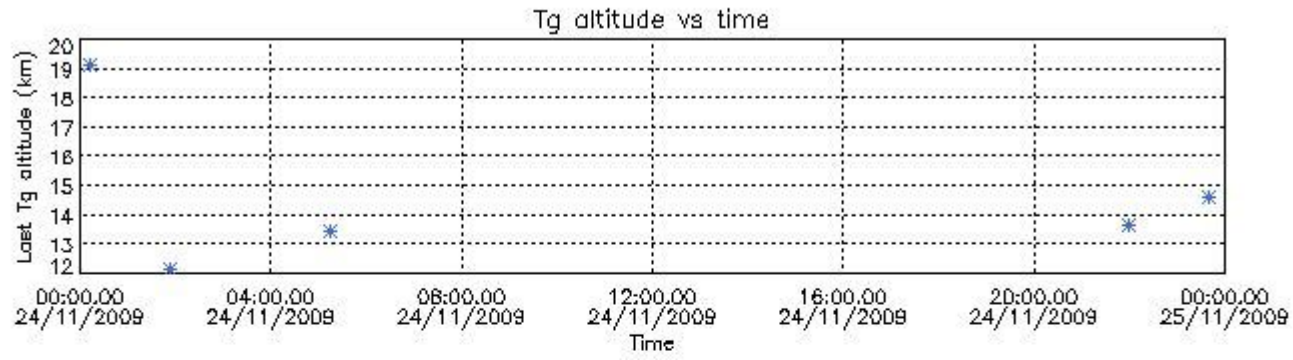
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



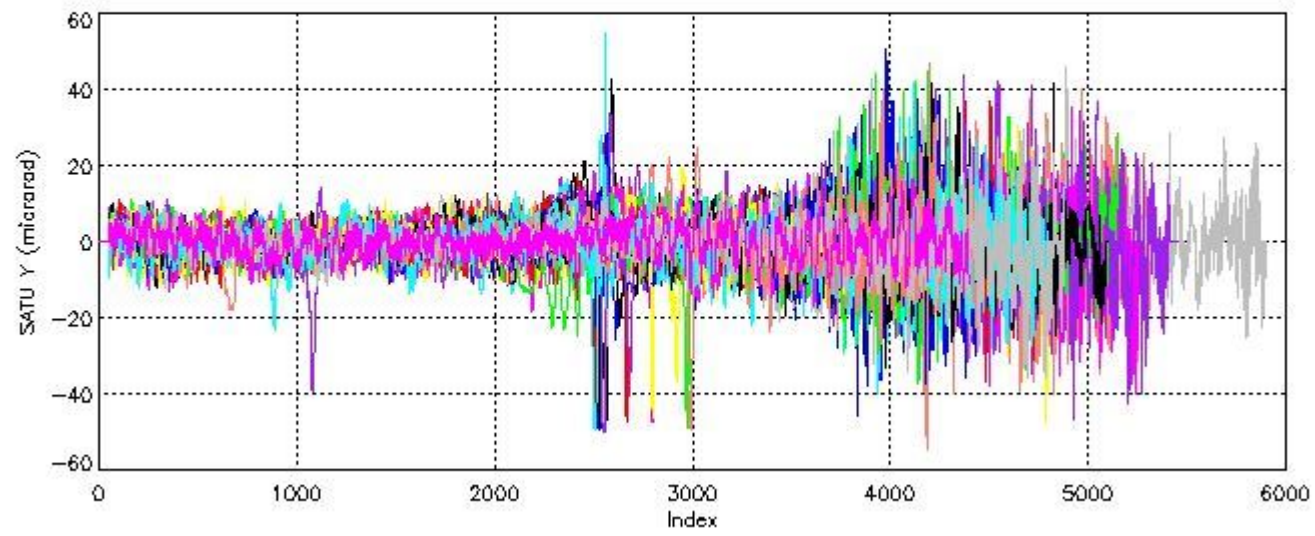
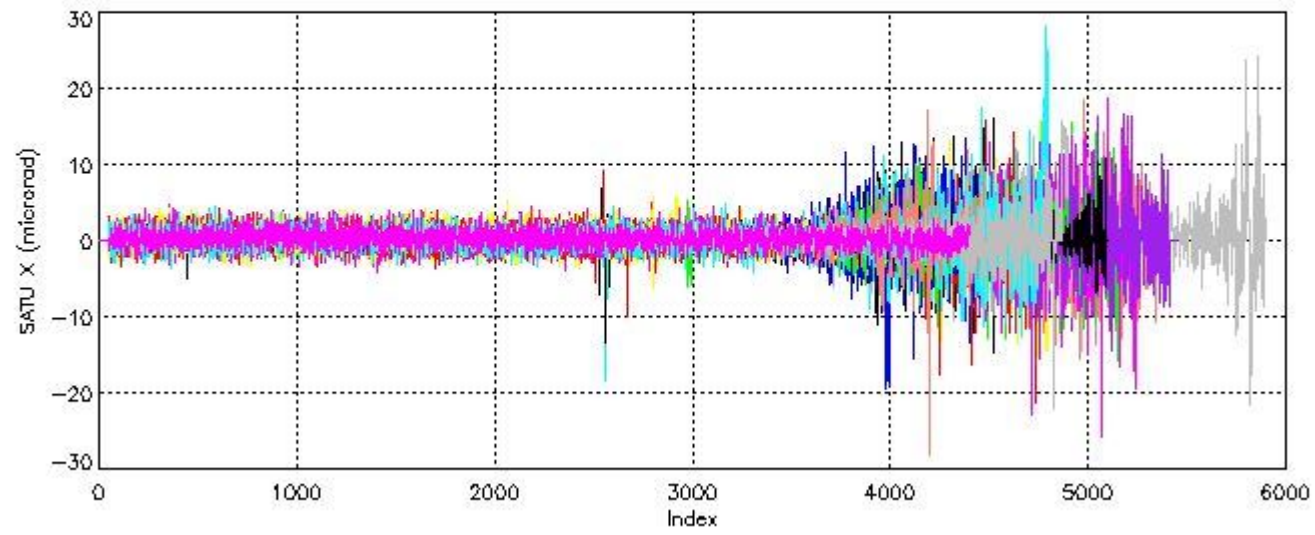
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.27323	-0.18411	0.18905	-0.31526
St. deviation:	0.59430	3.6206	1.1073	3.4931
Maximum:	4.7000	11.800	6.7000	15.400
Minimum:	-5.1000	-39.700	-6.2000	-24.900

Number of data:	31250.	31250.	40750.	40750.
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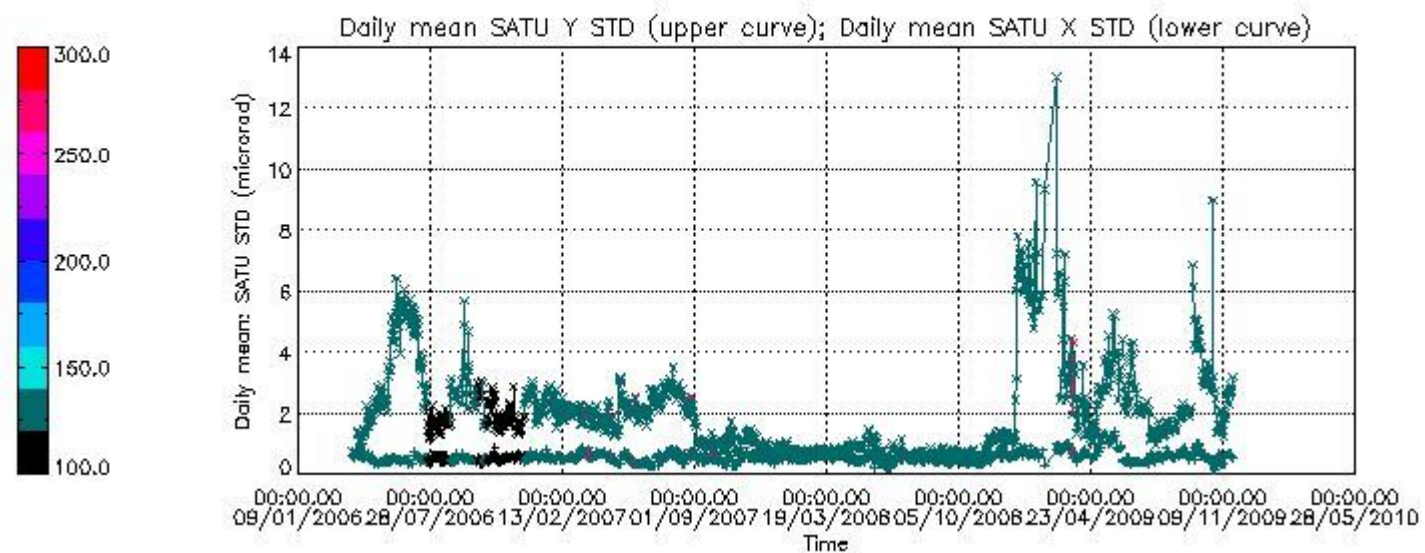
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

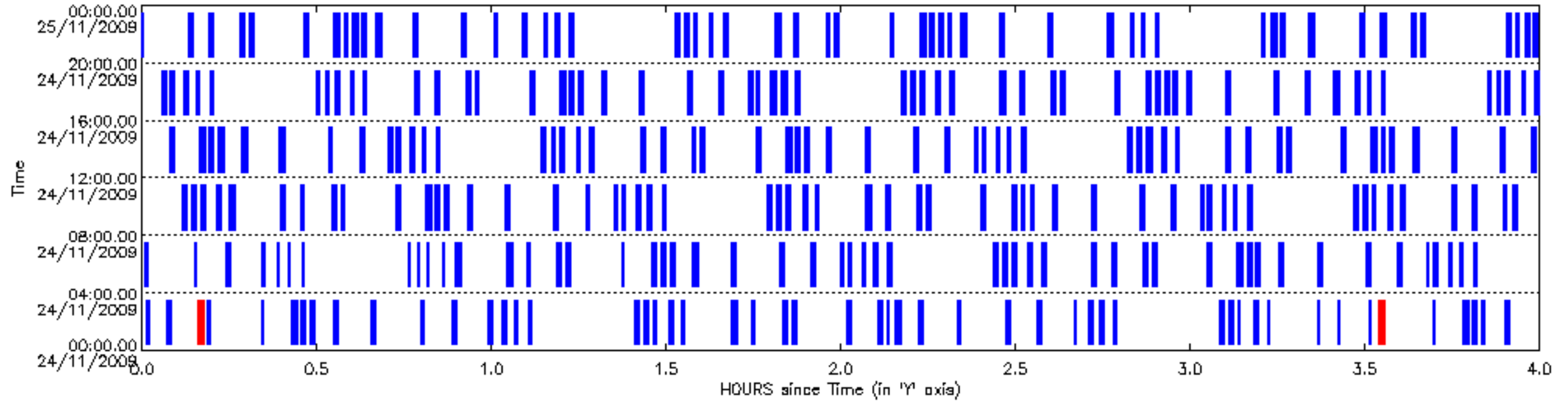
Lower curve: STD of SATU X axis



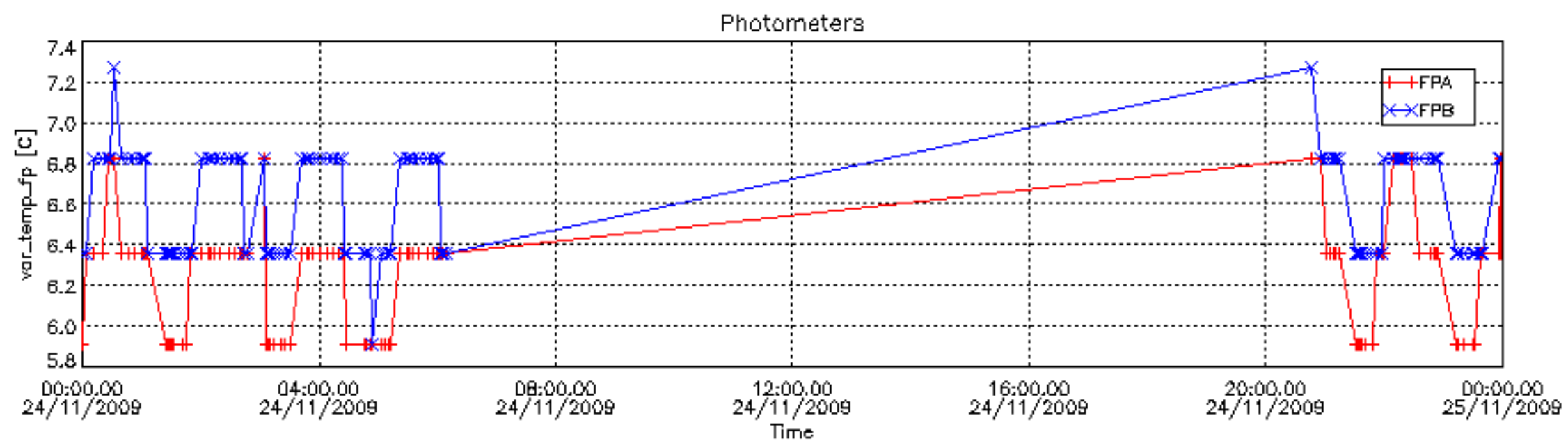
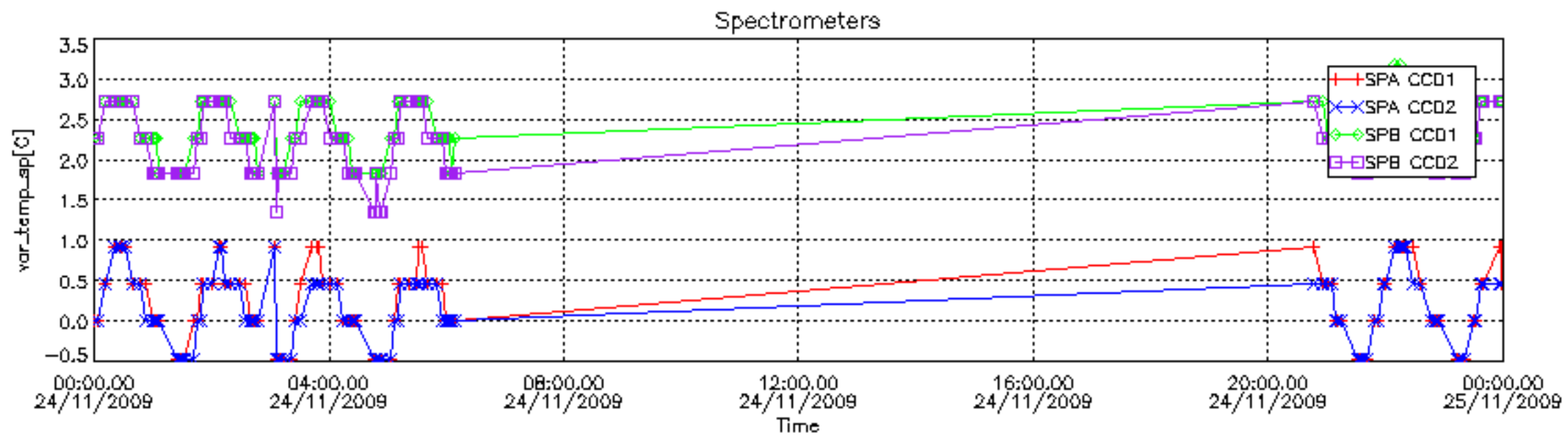
### 8. Auxiliary Data Files used for the production reported in section 2.4

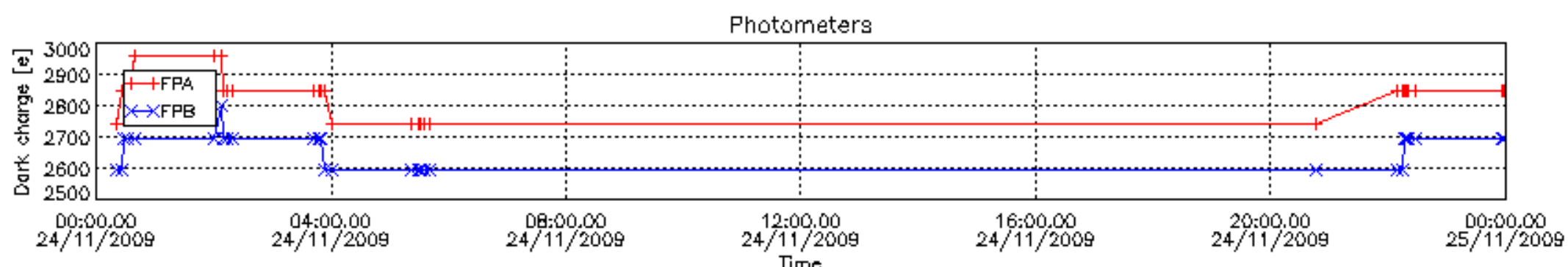
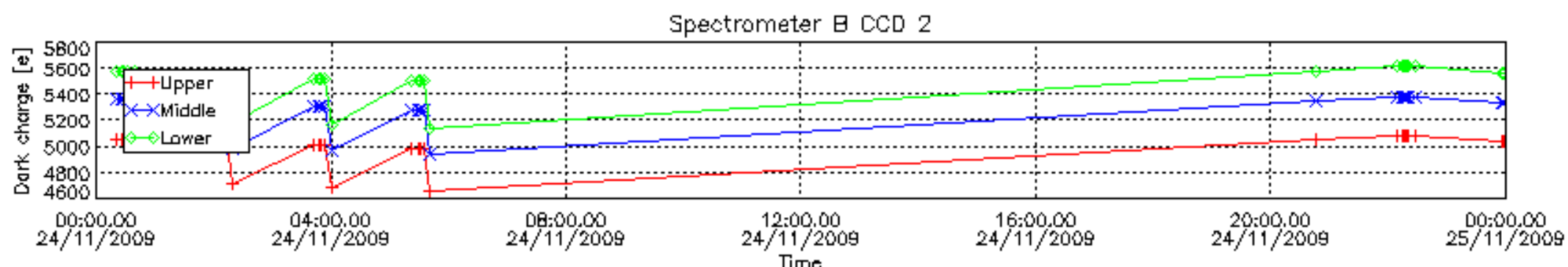
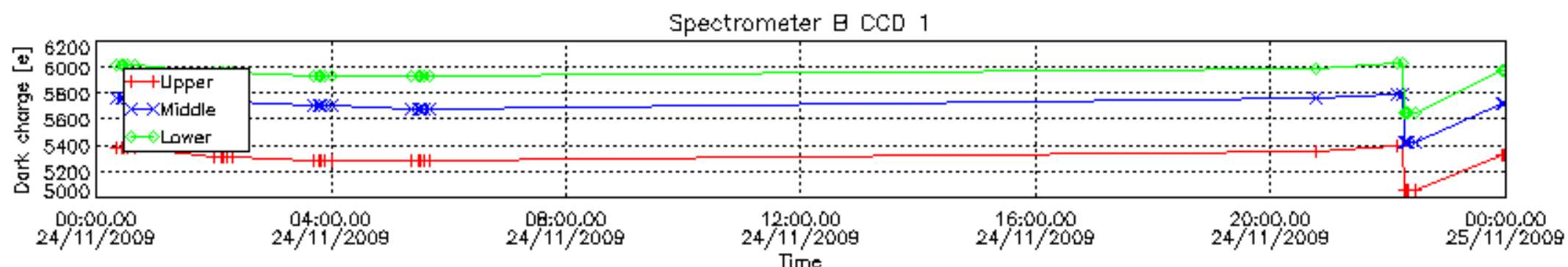
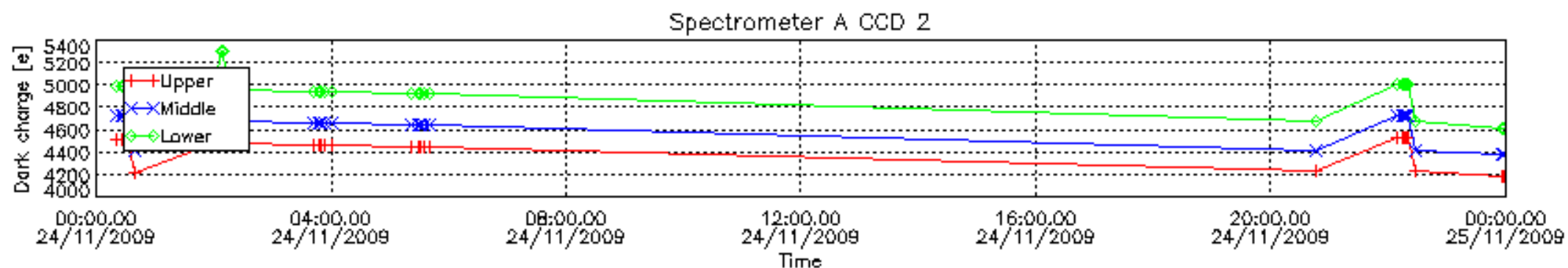
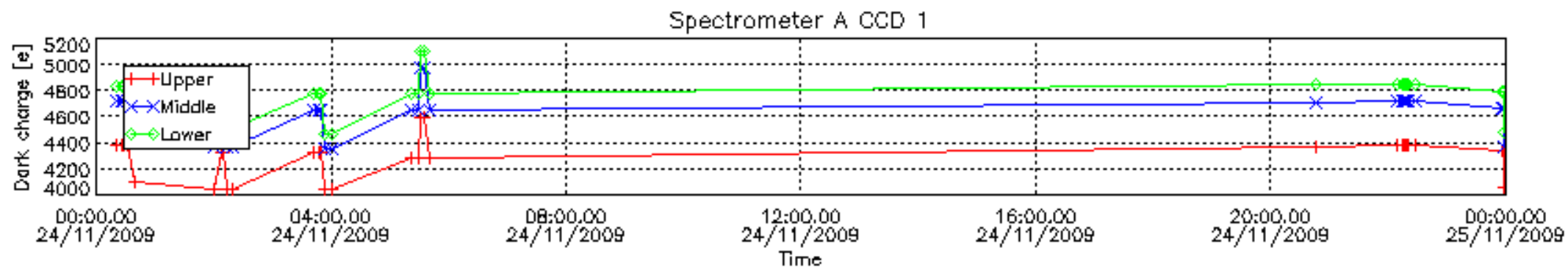
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

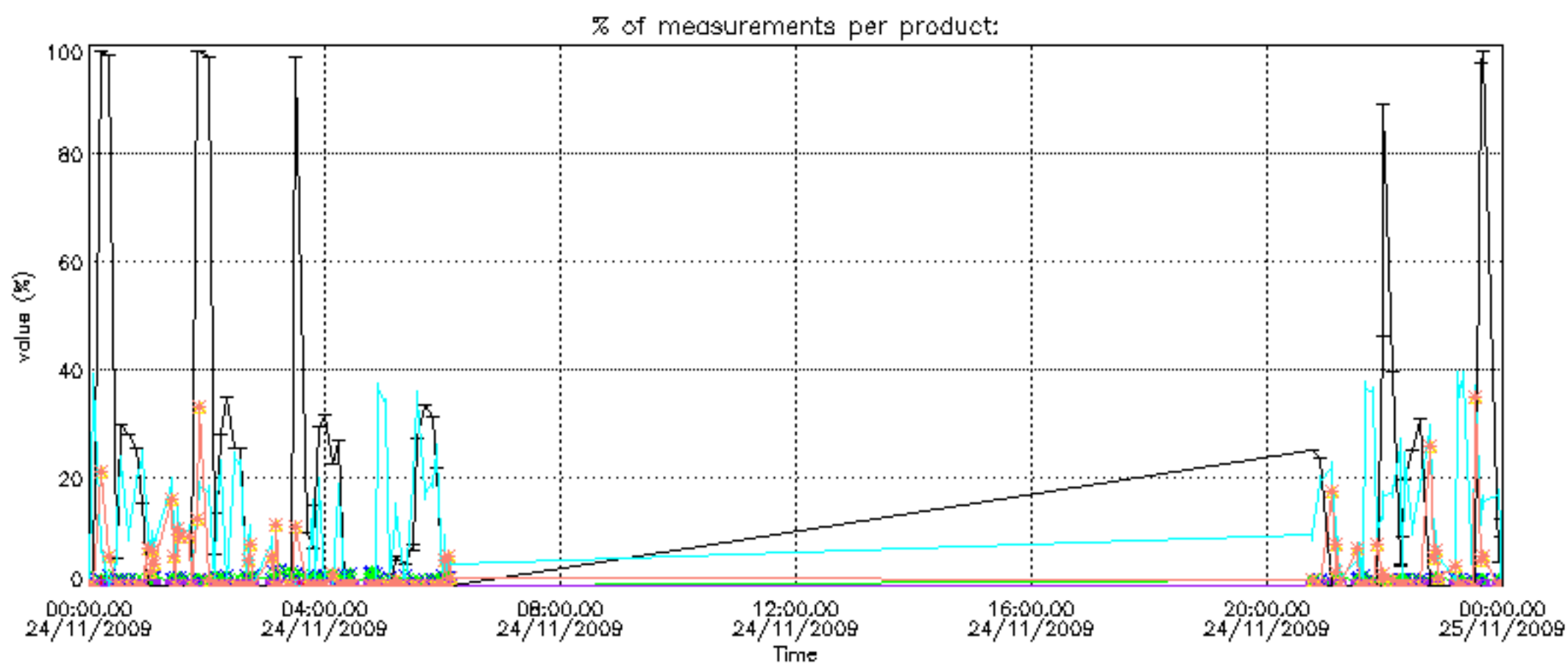
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091116_112409_20091114_000000_20100101_000000	1	24-NOV-2009 00:00:40
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	24-NOV-2009 00:00:40
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-NOV-2009 00:00:40
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	24-NOV-2009 00:00:40
ECMWF_FILE	AUX_ECA_AXNECM20091124_062110_20091123_210000_20091124_090000	1	24-NOV-2009 00:00:40
ECMWF_FILE	AUX_ECF_AXNECM20091123_182114_20091124_030000_20091124_150000	35	24-NOV-2009 03:05:02
ECMWF_FILE	AUX_ECA_AXNECM20091124_062110_20091123_210000_20091124_090000	54	24-NOV-2009 04:45:38
ECMWF_FILE	AUX_ECF_AXNECM20091124_064110_20091124_150000_20091125_030000	75	24-NOV-2009 20:46:37
ECMWF_FILE	AUX_ECF_AXNECM20091124_064111_20091124_210000_20091125_090000	89	24-NOV-2009 21:57:22
OPTIONAL_ECMWF_FILE	MISSING	1	24-NOV-2009 00:00:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091123_222557_000057382084_00301_40435_9228.N1	1	24-NOV-2009 00:00:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091124_000654_000054192084_00302_40436_9229.N1	3	24-NOV-2009 00:11:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091124_014232_000044632084_00303_40437_9230.N1	22	24-NOV-2009 01:50:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091124_030214_000054192084_00304_40438_9231.N1	35	24-NOV-2009 03:05:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091124_043752_000057382084_00305_40439_9232.N1	54	24-NOV-2009 04:45:38
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091124_010110_20091123_191826_20091203_204438	75	24-NOV-2009 20:46:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091124_215356_000057382084_00315_40449_9234.N1	89	24-NOV-2009 21:57:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091124_233453_000057382084_00316_40450_9235.N1	108	24-NOV-2009 23:37:58





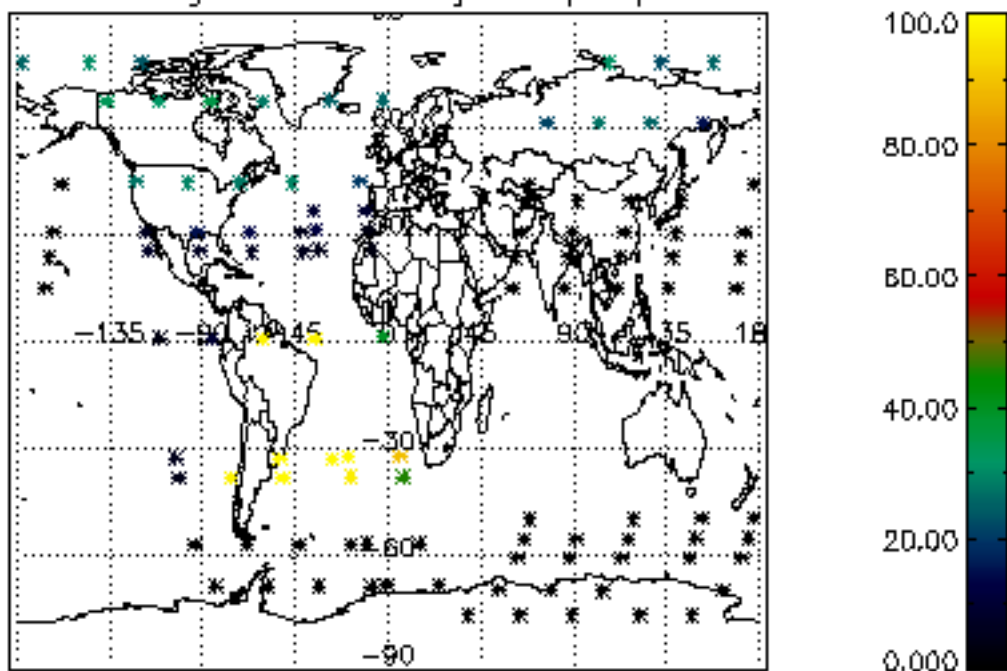




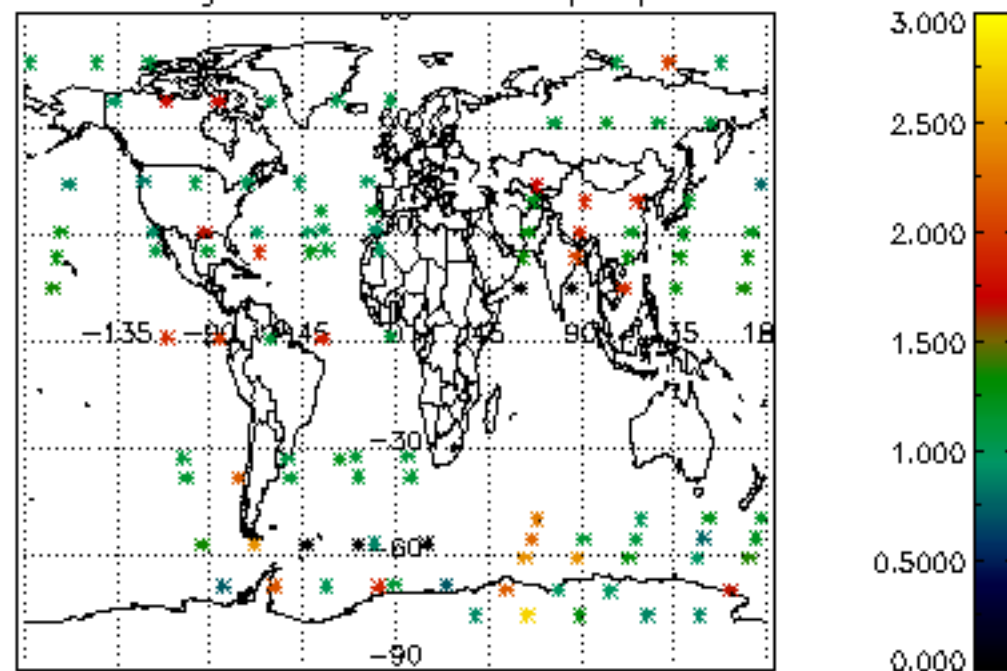




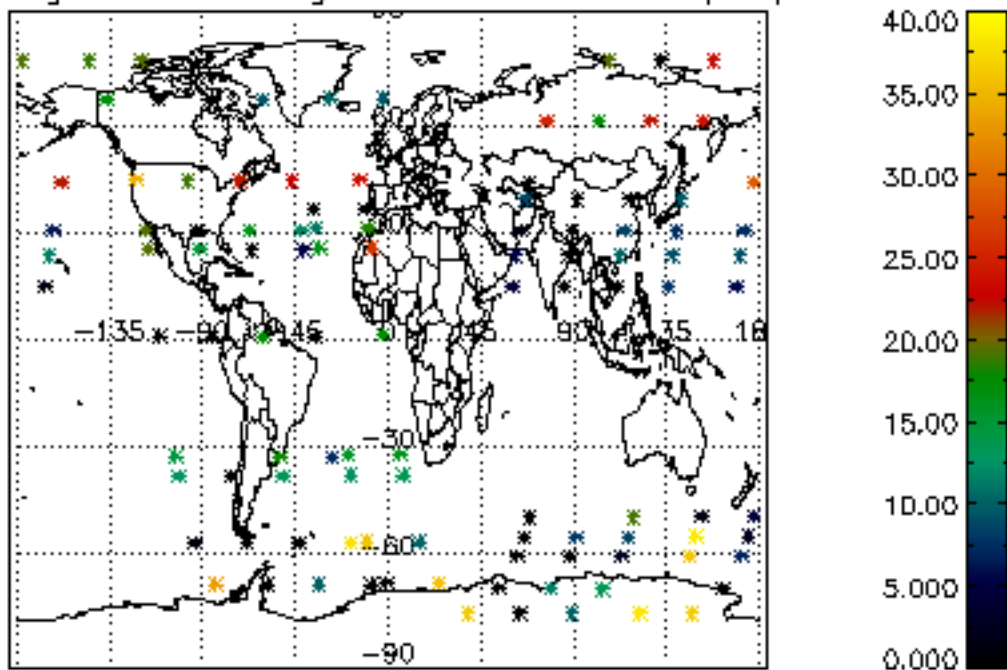
Percentage of cosmic ray hits per profile



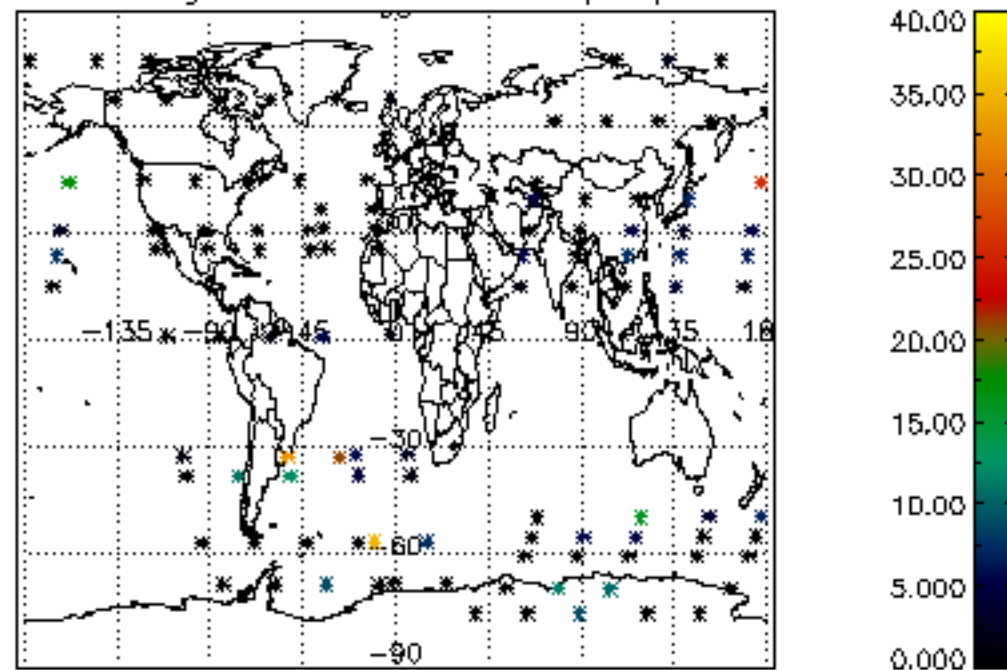
Percentage of datation errors per profile



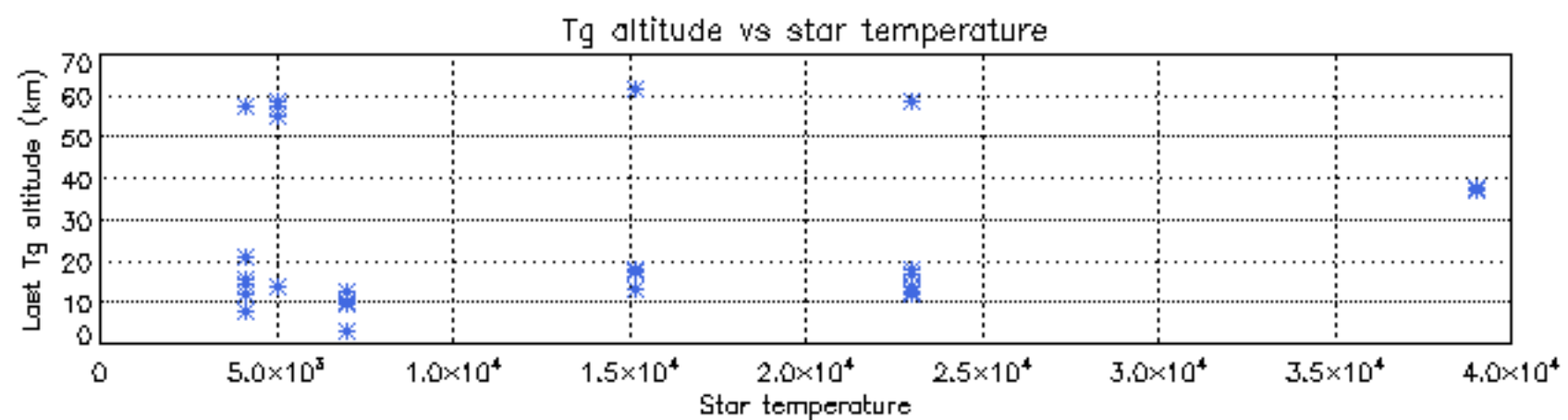
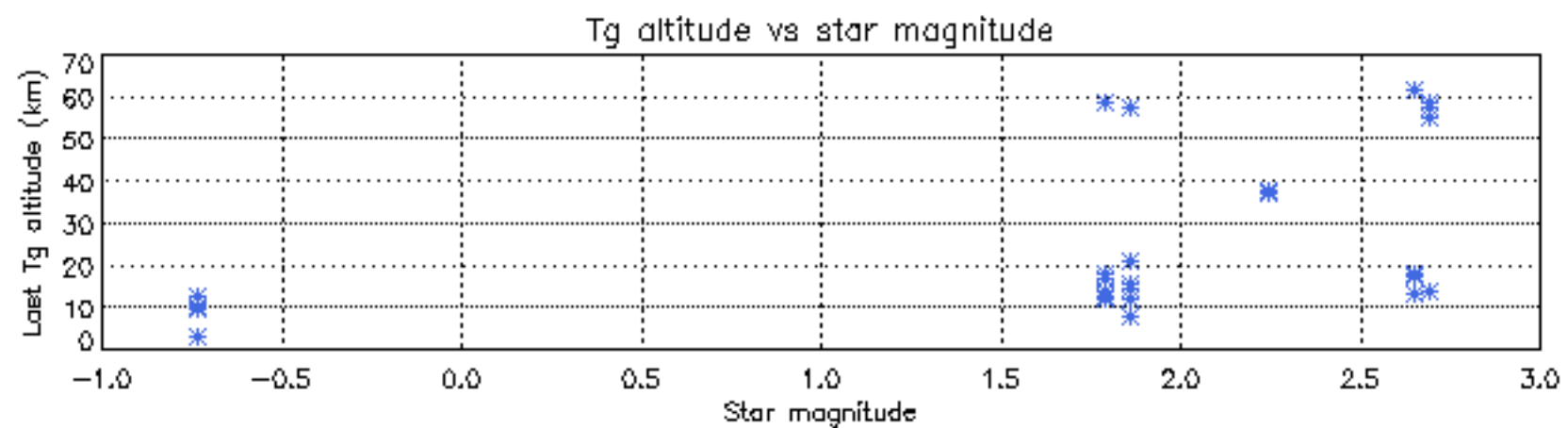
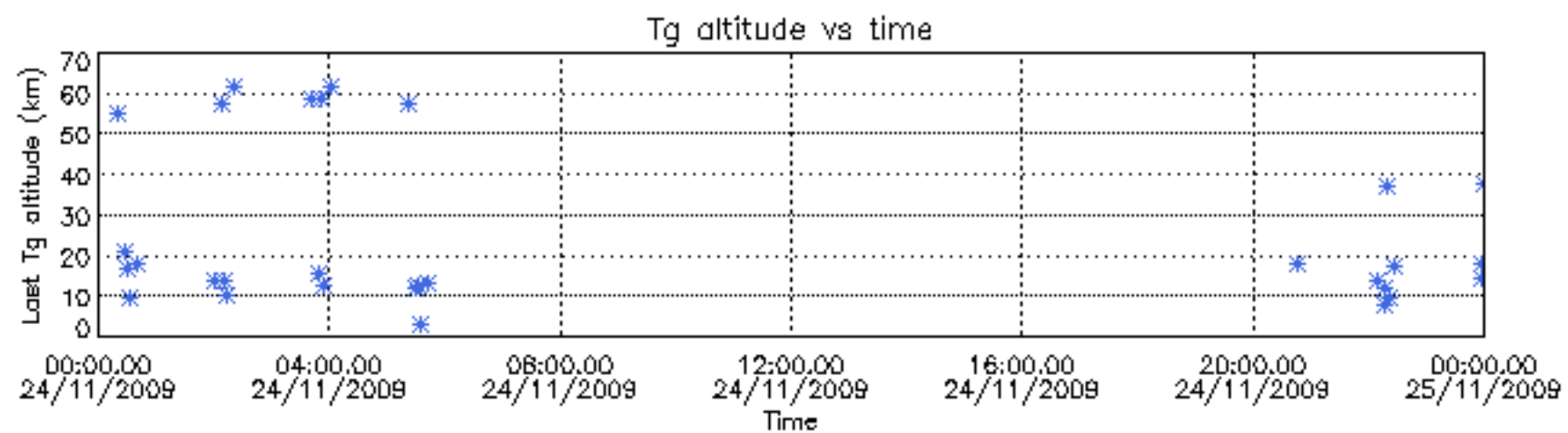
Percentage of star falling outside central band per profile



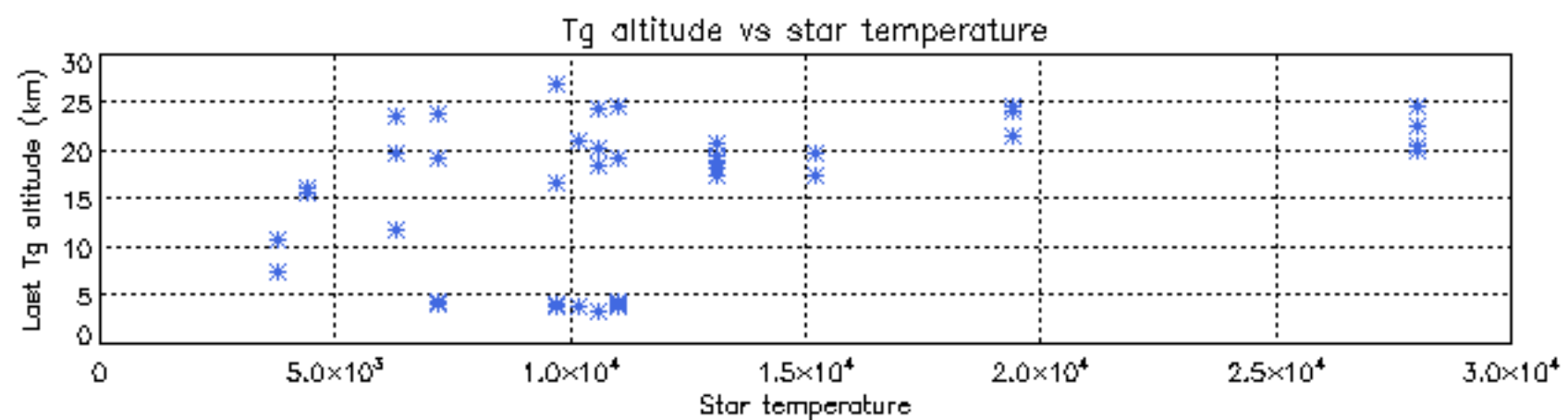
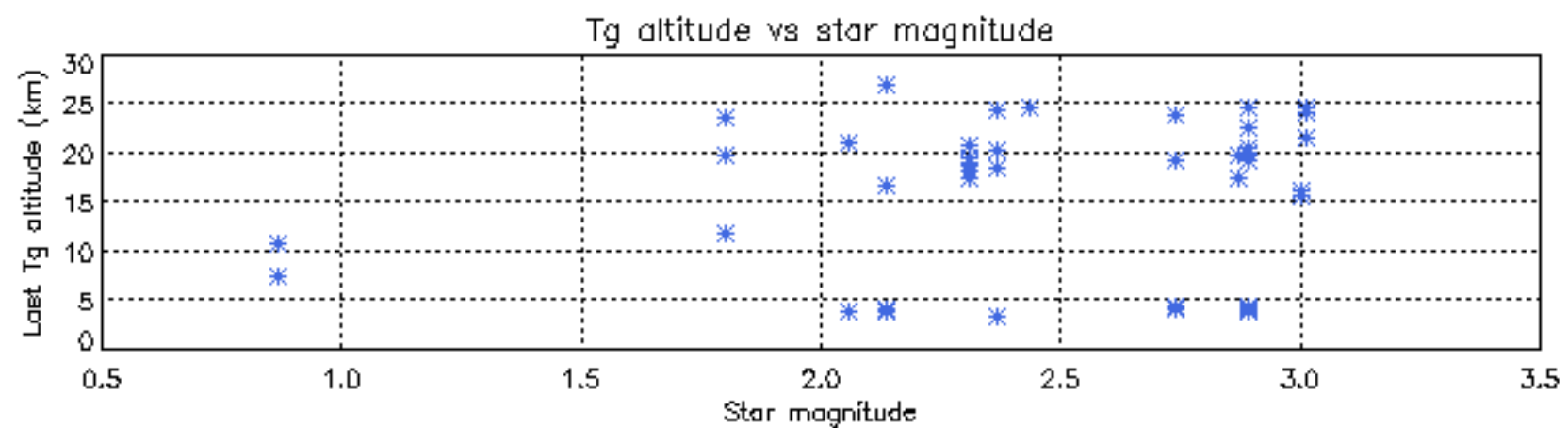
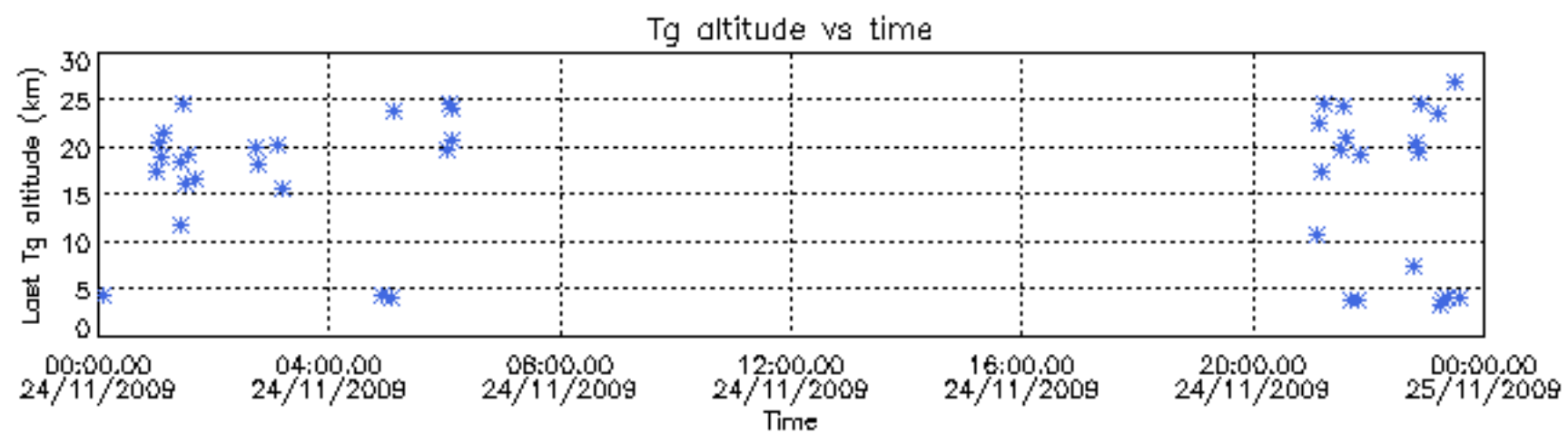
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

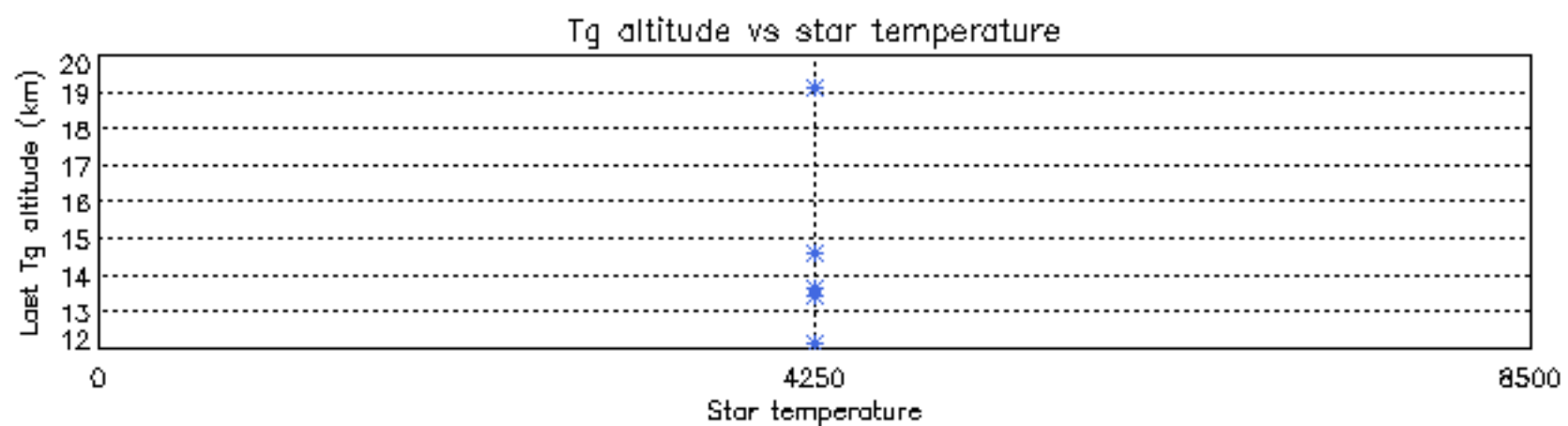
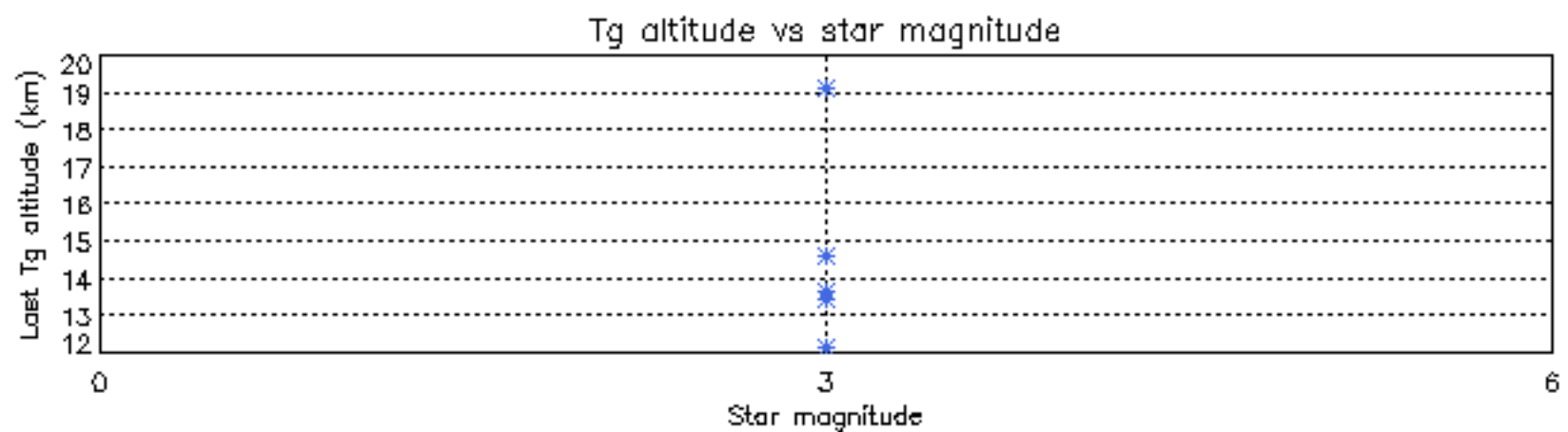
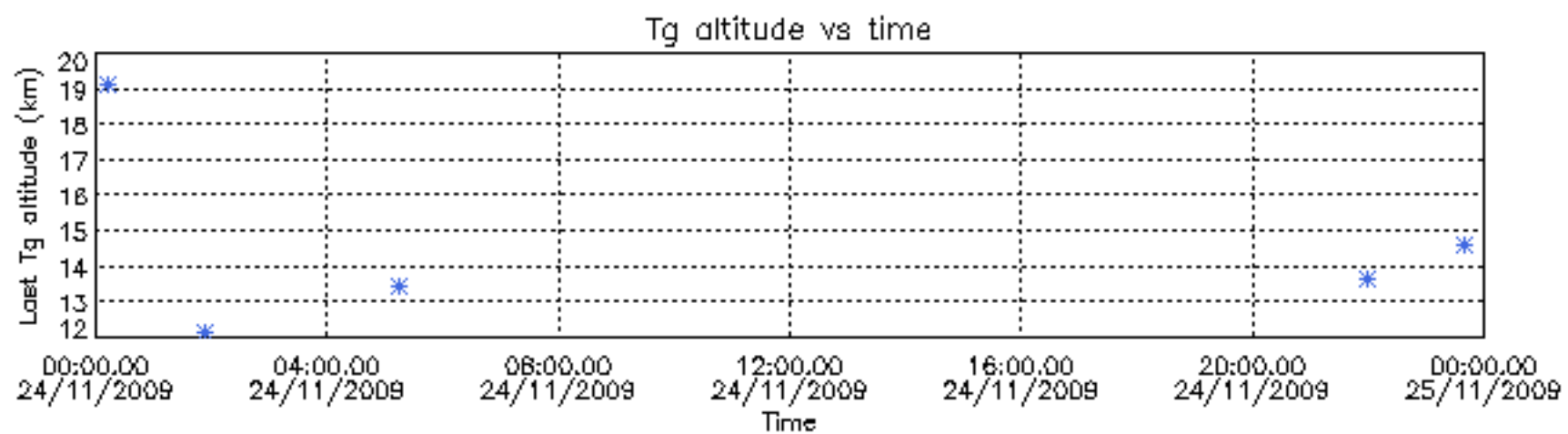


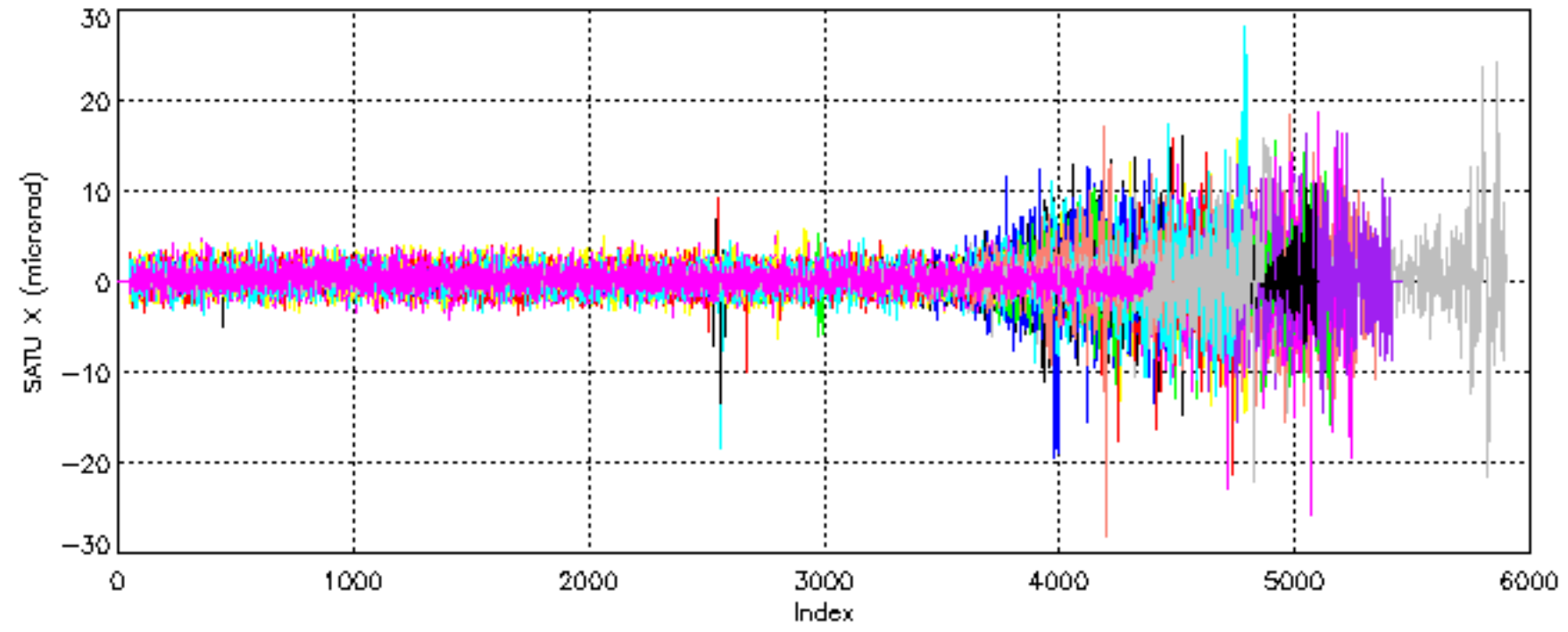
Tangent altitude at which the star is lost

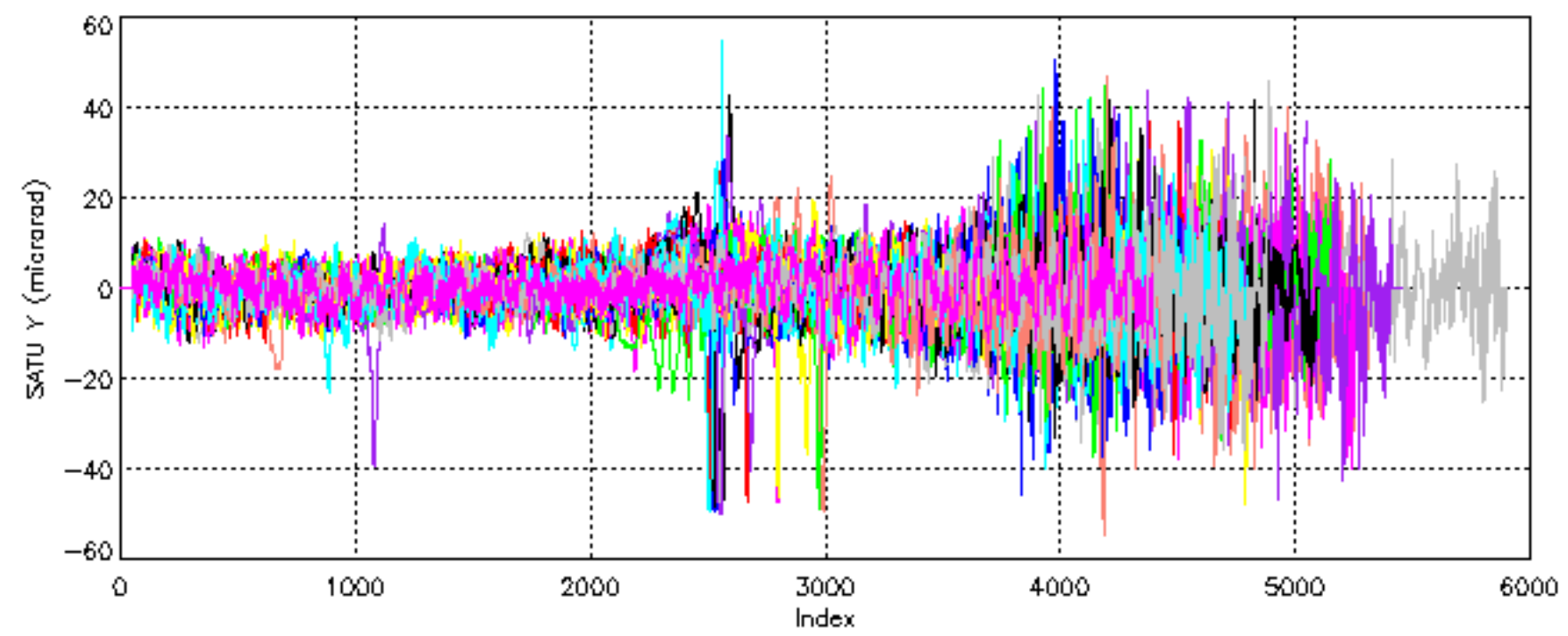


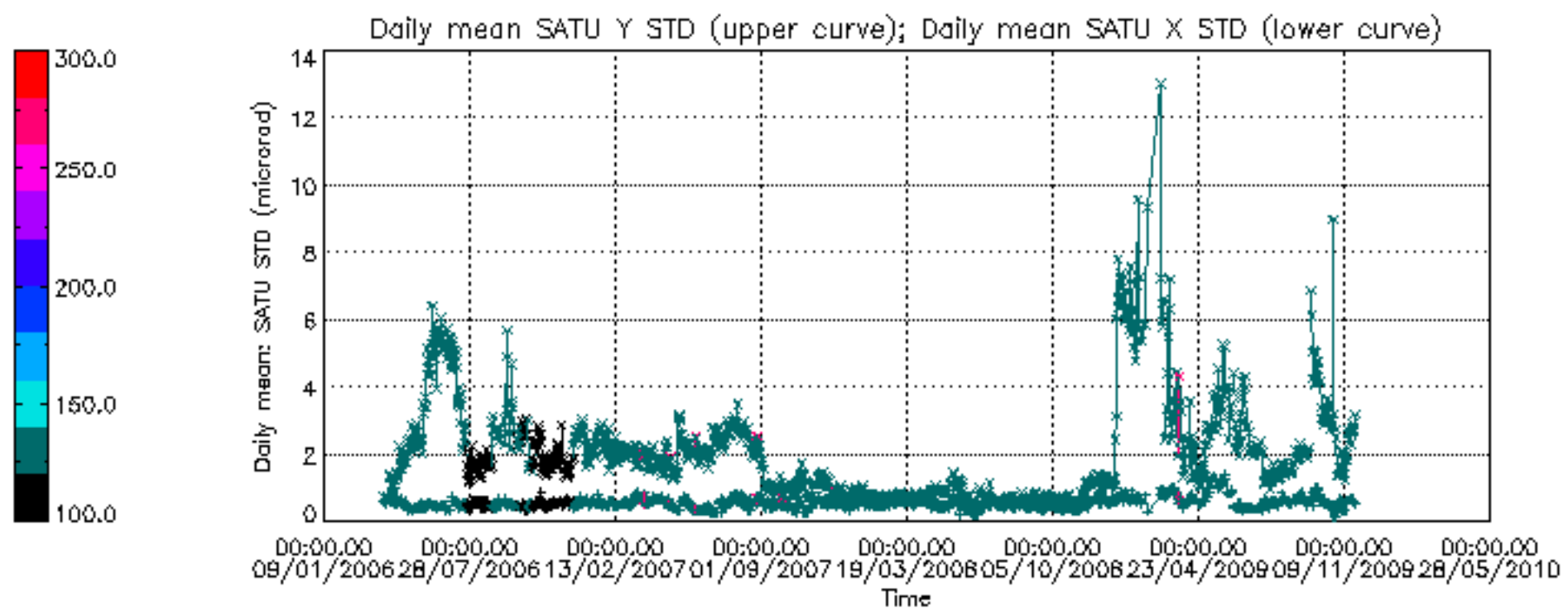


Tangent altitude at which the star is lost











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 9; 349.9; 01-NOV-2009 04:10:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40110  
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9; 2657.3; 01-NOV-2009 23:15:19; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;40121
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17; 7003.2; 05-NOV-2009 08:56:29; Dark ; 59.5; 108; Alp Col ; 2.65; 15200;occ; 119; 0;40169
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 13; 6073.7; 05-NOV-2009 12:02:12; Dark ; 50.5; 65; Lam Vel ; 2.20; 4400;occ; 101; 0;40171  
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 12; 6074.7; 05-NOV-2009 13:42:49; Dark ; 62.0; 65; Lam Vel ; 2.20; 4400;occ; 124; 0;40172  
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 14; 6314.4; 05-NOV-2009 13:46:48; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;40172  
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11; 264.5; 19-NOV-2009 08:04:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40370
12; 380.1; 19-NOV-2009 08:06:27; Dark ; 42.5; 41; Eps Car ; 1.86; 4100;occ; 85; 0;40370
13; 521.2; 19-NOV-2009 08:08:48; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;40370
14; 710.4; 19-NOV-2009 08:11:57; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;40370
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5; 2629.5; 19-NOV-2009 08:43:57; Bright; 40.0; 79; 26Bet Per ; 2.31; 13100;occ; 80; 0;40370  
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7; 3869.9; 19-NOV-2009 09:04:37; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;40370  
8; 3968.5; 19-NOV-2009 09:06:16; Bright; 42.0; 82; 48Bet UMa ; 2.37; 10600;occ; 84; 0;40370  
9; 4051.9; 19-NOV-2009 09:07:39; Bright; 41.0; 87; 64Gam UMa ; 2.43; 11000;occ; 82; 0;40370  
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13; 5041.5; 19-NOV-2009 09:24:09; Bright; 38.0; 121; 29Gam Vir ; 2.74; 7200;occ; 76; 0;40370  
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19; 6558.3; 19-NOV-2009 09:49:25; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;40370  
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21; 7147.4; 19-NOV-2009 09:59:14; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;40370  
22; 7679.6; 19-NOV-2009 10:08:07; Dark ; 50.0; 165; 34Gam Eri ; 2.95; 3200;occ; 100; 0;40370

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4; 2528.0; 19-NOV-2009 10:22:51; Bright; 43.0; 150; 44Zet Per ; 2.89; 28000;occ; 86; 0;40371  
5; 2629.3; 19-NOV-2009 10:24:32; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40371  
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7; 3869.5; 19-NOV-2009 10:45:12; Bright; 60.0; 36; 50Alp UMa ; 1.80; 6300;occ; 120; 0;40371  
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9; 4051.7; 19-NOV-2009 10:48:15; Bright; 40.0; 87; 64Gam UMa ; 2.43; 11000;occ; 80; 0;40371  
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21; 7147.9; 19-NOV-2009 11:39:51; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;40371

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4; 2527.7; 19-NOV-2009 12:03:26; Bright; 43.0; 150; 44Zet Per ; 2.89; 28000;occ; 86; 0;40372  
5; 2628.8; 19-NOV-2009 12:05:08; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40372  
6; 2797.3; 19-NOV-2009 12:07:56; Bright; 39.5; 35; 33Alp Per ; 1.79; 6250;occ; 79; 0;40372  
7; 3869.2; 19-NOV-2009 12:25:48; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;40372  
8; 3967.8; 19-NOV-2009 12:27:27; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;40372  
9; 4051.8; 19-NOV-2009 12:28:51; Bright; 40.5; 87; 64Gam UMa ; 2.43; 11000;occ; 81; 0;40372  
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11; 4334.9; 19-NOV-2009 12:33:34; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;40372  
12; 4832.4; 19-NOV-2009 12:41:51; Bright; 64.0; 62; 94Bet Leo ; 2.14; 9700;occ; 128; 0;40372  
13; 5042.1; 19-NOV-2009 12:45:21; Bright; 39.5; 121; 29Gam Vir ; 2.74; 7200;occ; 79; 0;40372  
14; 5352.3; 19-NOV-2009 12:50:31; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;40372  
15; 5444.6; 19-NOV-2009 12:52:03; Dark ; 44.0; 171; 2Eps Crv ; 3.00; 4250;occ; 88; 0;40372  
16; 6005.6; 19-NOV-2009 13:01:24; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;40372  
17; 6303.0; 19-NOV-2009 13:06:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40372  
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19; 6560.7; 19-NOV-2009 13:10:39; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40372  
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21; 7148.7; 19-NOV-2009 13:20:27; Dark ; 50.0; 108; Alp Col ; 2.65; 15200;occ; 100; 0;40372

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 4; 2527.3; 19-NOV-2009 13:44:02; Bright; 43.0; 150; 44Zet Per ; 2.89; 28000;occ; 86; 0;40373  
 5; 2628.8; 19-NOV-2009 13:45:43; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40373  
 6; 2797.2; 19-NOV-2009 13:48:32; Bright; 40.0; 35; 33Alp Per ; 1.79; 6250;occ; 80; 0;40373  
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 8; 3967.7; 19-NOV-2009 14:08:02; Bright; 44.0; 82; 48Bet UMA ; 2.37; 10600;occ; 88; 0;40373  
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 10; 4217.0; 19-NOV-2009 14:12:12; Bright; 47.5; 174; 52Psi UMA ; 3.00; 4400;occ; 95; 0;40373  
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 12; 4833.2; 19-NOV-2009 14:22:28; Bright; 64.0; 62; 94Bet Leo ; 2.14; 9700;occ; 128; 0;40373  
 13; 5042.9; 19-NOV-2009 14:25:58; Bright; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;40373  
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 3; 2372.4; 19-NOV-2009 15:22:03; Bright; 42.5; 146; 25Eta Tau ; 2.87; 15200;occ; 85; 0;40374  
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 13; 5043.7; 19-NOV-2009 16:06:34; Bright; 37.0; 121; 29Gam Vir ; 2.74; 7200;occ; 74; 0;40374  
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 15; 5446.2; 19-NOV-2009 16:13:17; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;40374  
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 18; 6419.2; 19-NOV-2009 16:29:30; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;40374  
 19; 6563.4; 19-NOV-2009 16:31:54; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40374  
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 3; 2372.0; 19-NOV-2009 17:02:39; Bright; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;40375  
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 13; 5043.7; 19-NOV-2009 17:47:10; Bright; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;40375  
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23; 7221.7; 28-NOV-2009 11:58:18; Dark ; 55.5; 177; 1Zet CMA ; 3.02; 26000;occ; 111; 0;40500
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12; 4195.9; 28-NOV-2009 12:48:28; Bright; 74.0; 174; 52Psi UMa ; 3.00; 4400;occ; 148; 0;40501
13; 4345.7; 28-NOV-2009 12:50:58; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;40501

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 15; 5100.3; 28-NOV-2009 13:03:32; Bright; 60.0; 121; 29Gam Vir ; 2.74; 7200;occ; 120; 0;40501  
 16; 5432.9; 28-NOV-2009 13:09:05; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;40501  
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 19; 6413.1; 28-NOV-2009 13:25:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40501  
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 23; 7157.2; 28-NOV-2009 13:37:49; Dark ; 37.0; 23; 21Eps CMa ; 1.50; 26000;occ; 74; 0;40501  
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 3; 2245.5; 28-NOV-2009 13:56:34; Bright; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;40502  
 4; 2335.0; 28-NOV-2009 13:58:03; Bright; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;40502  
 5; 2479.6; 28-NOV-2009 14:00:28; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40502  
 6; 2626.7; 28-NOV-2009 14:02:55; Bright; 53.0; 149; 45Eps Per ; 2.89; 30000;occ; 106; 0;40502  
 7; 2745.7; 28-NOV-2009 14:04:54; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;40502  
 8; 2872.4; 28-NOV-2009 14:07:00; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;40502  
 9; 2992.7; 28-NOV-2009 14:09:01; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;40502  
 10; 3832.9; 28-NOV-2009 14:23:01; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;40502  
 11; 3930.1; 28-NOV-2009 14:24:38; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;40502  
 12; 4033.3; 28-NOV-2009 14:26:21; Bright; 51.5; 87; 64Gam UMa ; 2.43; 11000;occ; 103; 0;40502  
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 7; 2745.3; 28-NOV-2009 15:45:29; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0;40503  
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 4; 1755.5; 28-NOV-2009 17:09:35; Dark ; 60.5; 7; 19Bet Ori ; 0.10; 14000;occ; 121; 0;40504

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6; 2334.6; 28-NOV-2009 17:19:15; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40504
7; 2479.1; 28-NOV-2009 17:21:39; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40504
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3; 66.1; 29-NOV-2009 01:04:26; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;40509
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5; 580.0; 29-NOV-2009 01:12:59; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40509
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8; 1126.5; 29-NOV-2009 01:22:06; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;40509
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 23; 4347.9; 30-NOV-2009 23:31:57; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;40536  
 24; 4922.0; 30-NOV-2009 23:41:31; Bright; 80.0; 62; 94Bet Leo ; 2.14; 9700;occ; 160; 0;40536  
 25; 5119.7; 30-NOV-2009 23:44:49; Bright; 61.5; 121; 29Gam Vir ; 2.74; 7200;occ; 123; 0;40536

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1; -576.3; 30-NOV-2009 23:50:29; Dark ; 47.5; 100; 4Gam Crv ; 2.58; 13100;occ; 95; 0;40536  
 2; -480.8; 30-NOV-2009 23:52:04; Dark ; 52.0; 171; 2Eps Crv ; 3.00; 4250;occ; 104; 0;40536  
 3; 87.6; 01-DEC-2009 00:01:33; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;40537  
 4; 406.8; 01-DEC-2009 00:06:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40537  
 5; 605.0; 01-DEC-2009 00:10:10; Dark ; 50.0; 34; Gam2Vel ; 1.79; 23000;occ; 100; 0;40537  
 6; 710.5; 01-DEC-2009 00:11:56; Dark ; 57.0; 70; Zet Pup ; 2.25; 39000;occ; 114; 0;40537  
 7; 918.8; 01-DEC-2009 00:15:24; Dark ; 57.0; 117; Pi Pup ; 2.71; 3800;occ; 114; 0;40537  
 8; 1147.0; 01-DEC-2009 00:19:12; Dark ; 65.0; 23; 21Eps CMa ; 1.50; 26000;occ; 130; 0;40537  
 9; 1535.5; 01-DEC-2009 00:25:41; Dark ; 55.5; 101; 11Alp Lep ; 2.58; 7000;occ; 111; 0;40537  
 10; 1752.2; 01-DEC-2009 00:29:17; Dark ; 57.0; 7; 19Bet Ori ; 0.10; 14000;occ; 114; 0;40537  
 11; 1933.4; 01-DEC-2009 00:32:19; Dark ; 63.0; 30; 46Eps Ori ; 1.69; 30000;occ; 126; 0;40537  
 12; 2096.9; 01-DEC-2009 00:35:02; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;40537  
 13; 2232.1; 01-DEC-2009 00:37:17; Bright; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;40537  
 14; 2328.6; 01-DEC-2009 00:38:54; Bright; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;40537  
 15; 2470.6; 01-DEC-2009 00:41:16; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40537  
 16; 2616.4; 01-DEC-2009 00:43:42; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;40537  
 17; 2848.1; 01-DEC-2009 00:47:33; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;40537  
 18; 2957.8; 01-DEC-2009 00:49:23; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;40537  
 19; 3821.1; 01-DEC-2009 01:03:46; Bright; 50.0; 36; 50Alp UMa ; 1.80; 6300;occ; 100; 0;40537  
 20; 3917.5; 01-DEC-2009 01:05:23; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;40537  
 21; 4014.5; 01-DEC-2009 01:07:00; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;40537  
 22; 4187.4; 01-DEC-2009 01:09:53; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;40537  
 23; 4347.9; 01-DEC-2009 01:12:33; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;40537  
 24; 4922.8; 01-DEC-2009 01:22:08; Bright; 58.5; 62; 94Bet Leo ; 2.14; 9700;occ; 117; 0;40537  
 25; 5120.4; 01-DEC-2009 01:25:26; Bright; 61.5; 121; 29Gam Vir ; 2.74; 7200;occ; 123; 0;40537

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 2; 1937.8; 30-NOV-2009 07:46:24; Dark ; 31.0; 30; 46Eps Ori ; 1.69; 30000;occ; 62; 0;40527  
 3; 2102.3; 30-NOV-2009 07:49:08; Dark ; 64.5; 27; 24Gam Ori ; 1.64; 26000;occ; 129; 0;40527  
 4; 2236.0; 30-NOV-2009 07:51:22; Bright; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;40527  
 5; 2330.4; 30-NOV-2009 07:52:56; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40527  
 6; 2473.2; 30-NOV-2009 07:55:19; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40527  
 7; 2619.3; 30-NOV-2009 07:57:45; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40527  
 8; 2854.9; 30-NOV-2009 08:01:41; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;40527  
 9; 2967.6; 30-NOV-2009 08:03:34; Bright; 51.5; 42; 34Bet Aur ; 1.90; 10200;occ; 103; 0;40527  
 10; 3824.7; 30-NOV-2009 08:17:51; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;40527  
 11; 3921.6; 30-NOV-2009 08:19:28; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;40527  
 12; 4015.5; 30-NOV-2009 08:21:02; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;40527  
 13; 4190.0; 30-NOV-2009 08:23:56; Bright; 76.0; 174; 52Psi UMa ; 3.00; 4400;occ; 152; 0;40527  
 14; 4347.6; 30-NOV-2009 08:26:34; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;40527  
 15; 4916.2; 30-NOV-2009 08:36:02; Bright; 54.5; 62; 94Bet Leo ; 2.14; 9700;occ; 109; 0;40527

16; 5114.6; 30-NOV-2009 08:39:21; Bright; 41.5; 121; 29Gam Vir ; 2.74; 7200;occ; 83; 0;40527  
 17; 5452.5; 30-NOV-2009 08:44:59; Dark ; 48.0; 100; 4Gam Crv ; 2.58; 13100;occ; 96; 0;40527  
 18; 5547.9; 30-NOV-2009 08:46:34; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;40527  
 19; 6116.7; 30-NOV-2009 08:56:03; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40527  
 20; 6435.1; 30-NOV-2009 09:01:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40527  
 21; 6633.2; 30-NOV-2009 09:04:39; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40527  
 22; 6737.1; 30-NOV-2009 09:06:23; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;40527  
 23; 6947.3; 30-NOV-2009 09:09:53; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40527  
 24; 7176.4; 30-NOV-2009 09:13:42; Dark ; 67.5; 23; 21Eps CMA ; 1.50; 26000;occ; 135; 0;40527  
 25; 7570.4; 30-NOV-2009 09:20:17; Dark ; 53.5; 101; 11Alp Lep ; 2.58; 7000;occ; 107; 0;40527

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 2; 1937.1; 30-NOV-2009 09:26:59; Dark ; 38.0; 30; 46Eps Ori ; 1.69; 30000;occ; 76; 0;40528  
 3; 2101.8; 30-NOV-2009 09:29:44; Dark ; 63.5; 27; 24Gam Ori ; 1.64; 26000;occ; 127; 0;40528  
 4; 2235.6; 30-NOV-2009 09:31:58; Bright; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;40528  
 5; 2330.3; 30-NOV-2009 09:33:32; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40528  
 6; 2472.9; 30-NOV-2009 09:35:55; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40528  
 7; 2618.7; 30-NOV-2009 09:38:21; Bright; 39.0; 149; 45Eps Per ; 2.89; 30000;occ; 78; 0;40528  
 8; 2854.2; 30-NOV-2009 09:42:16; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;40528  
 9; 2966.6; 30-NOV-2009 09:44:09; Bright; 49.5; 42; 34Bet Aur ; 1.90; 10200;occ; 99; 0;40528  
 10; 3824.4; 30-NOV-2009 09:58:26; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;40528  
 11; 3920.9; 30-NOV-2009 10:00:03; Bright; 42.5; 82; 48Bet UMa ; 2.37; 10600;occ; 85; 0;40528  
 12; 4015.3; 30-NOV-2009 10:01:37; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;40528  
 13; 4190.1; 30-NOV-2009 10:04:32; Bright; 49.5; 174; 52Psi UMa ; 3.00; 4400;occ; 99; 0;40528  
 14; 4347.7; 30-NOV-2009 10:07:10; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;40528  
 15; 4916.8; 30-NOV-2009 10:16:39; Bright; 57.5; 62; 94Bet Leo ; 2.14; 9700;occ; 115; 0;40528  
 16; 5115.3; 30-NOV-2009 10:19:57; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;40528  
 17; 5453.4; 30-NOV-2009 10:25:35; Dark ; 46.0; 100; 4Gam Crv ; 2.58; 13100;occ; 92; 0;40528  
 18; 5548.9; 30-NOV-2009 10:27:11; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;40528  
 19; 6117.4; 30-NOV-2009 10:36:39; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40528  
 20; 6435.9; 30-NOV-2009 10:41:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40528  
 21; 6634.1; 30-NOV-2009 10:45:16; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40528  
 22; 6738.1; 30-NOV-2009 10:47:00; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;40528  
 23; 6947.9; 30-NOV-2009 10:50:30; Dark ; 67.0; 117; Pi Pup ; 2.71; 3800;occ; 134; 0;40528  
 24; 7177.3; 30-NOV-2009 10:54:19; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;40528  
 25; 7570.4; 30-NOV-2009 11:00:52; Dark ; 54.0; 101; 11Alp Lep ; 2.58; 7000;occ; 108; 0;40528

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 2; 1753.1; 30-NOV-2009 11:04:31; Dark ; 61.0; 7; 19Bet Ori ; 0.10; 14000;occ; 122; 0;40529  
 3; 1936.7; 30-NOV-2009 11:07:35; Dark ; 38.0; 30; 46Eps Ori ; 1.69; 30000;occ; 76; 0;40529  
 4; 2101.0; 30-NOV-2009 11:10:19; Dark ; 64.0; 27; 24Gam Ori ; 1.64; 26000;occ; 128; 0;40529  
 5; 2235.1; 30-NOV-2009 11:12:33; Bright; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;40529  
 6; 2330.0; 30-NOV-2009 11:14:08; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40529  
 7; 2472.6; 30-NOV-2009 11:16:30; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40529  
 8; 2618.7; 30-NOV-2009 11:18:57; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40529  
 9; 2853.5; 30-NOV-2009 11:22:51; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;40529  
 10; 2965.7; 30-NOV-2009 11:24:44; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;40529  
 11; 3824.1; 30-NOV-2009 11:39:02; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;40529  
 12; 3920.6; 30-NOV-2009 11:40:38; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;40529  
 13; 4015.3; 30-NOV-2009 11:42:13; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;40529  
 14; 4189.5; 30-NOV-2009 11:45:07; Bright; 52.5; 174; 52Psi UMa ; 3.00; 4400;occ; 105; 0;40529  
 15; 4347.5; 30-NOV-2009 11:47:45; Bright; 45.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 90; 0;40529  
 16; 4917.3; 30-NOV-2009 11:57:15; Bright; 79.0; 62; 94Bet Leo ; 2.14; 9700;occ; 158; 0;40529  
 17; 5115.9; 30-NOV-2009 12:00:34; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;40529  
 18; 5454.0; 30-NOV-2009 12:06:12; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;40529  
 19; 5549.6; 30-NOV-2009 12:07:47; Dark ; 51.0; 171; 2Eps Crv ; 3.00; 4250;occ; 102; 0;40529  
 20; 6118.0; 30-NOV-2009 12:17:16; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;40529  
 21; 6436.7; 30-NOV-2009 12:22:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40529  
 22; 6634.7; 30-NOV-2009 12:25:53; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40529  
 23; 6739.0; 30-NOV-2009 12:27:37; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40529  
 24; 6948.8; 30-NOV-2009 12:31:07; Dark ; 64.5; 117; Pi Pup ; 2.71; 3800;occ; 129; 0;40529  
 25; 7178.0; 30-NOV-2009 12:34:56; Dark ; 67.0; 23; 21Eps CMA ; 1.50; 26000;occ; 134; 0;40529  
 26; 7570.7; 30-NOV-2009 12:41:28; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;40529

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 2; 1753.0; 30-NOV-2009 12:45:07; Dark ; 58.5; 7; 19Bet Ori ; 0.10; 14000;occ; 117; 0;40530  
 3; 1936.4; 30-NOV-2009 12:48:10; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;40530  
 4; 2100.6; 30-NOV-2009 12:50:54; Dark ; 64.0; 27; 24Gam Ori ; 1.64; 26000;occ; 128; 0;40530

5; 2234.8; 30-NOV-2009 12:53:08; Bright; 60.5; 13; 87Alp Tau ; 0.87; 3800;occ; 121; 0;40530  
6; 2329.9; 30-NOV-2009 12:54:44; Bright; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;40530  
7; 2472.5; 30-NOV-2009 12:57:06; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40530  
8; 2618.5; 30-NOV-2009 12:59:32; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;40530  
9; 2852.7; 30-NOV-2009 13:03:26; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;40530  
10; 2964.6; 30-NOV-2009 13:05:18; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;40530  
11; 3823.6; 30-NOV-2009 13:19:37; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;40530  
12; 3920.1; 30-NOV-2009 13:21:14; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;40530  
13; 4015.4; 30-NOV-2009 13:22:49; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;40530  
14; 4189.4; 30-NOV-2009 13:25:43; Bright; 65.0; 174; 52Psi UMa ; 3.00; 4400;occ; 130; 0;40530  
15; 4347.9; 30-NOV-2009 13:28:22; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;40530  
16; 4918.0; 30-NOV-2009 13:37:52; Bright; 59.0; 62; 94Bet Leo ; 2.14; 9700;occ; 118; 0;40530  
17; 5116.6; 30-NOV-2009 13:41:10; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;40530  
18; 5454.9; 30-NOV-2009 13:46:49; Dark ; 47.0; 100; 4Gam Crv ; 2.58; 13100;occ; 94; 0;40530  
19; 5550.3; 30-NOV-2009 13:48:24; Dark ; 50.5; 171; 2Eps Crv ; 3.00; 4250;occ; 101; 0;40530  
20; 6118.8; 30-NOV-2009 13:57:53; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40530  
21; 6437.6; 30-NOV-2009 14:03:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40530  
22; 6635.8; 30-NOV-2009 14:06:29; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40530  
23; 6740.1; 30-NOV-2009 14:08:14; Dark ; 58.5; 70; Zet Pup ; 2.25; 39000;occ; 117; 0;40530  
24; 6949.9; 30-NOV-2009 14:11:44; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40530  
25; 7178.8; 30-NOV-2009 14:15:32; Dark ; 68.5; 23; 21Eps CMa ; 1.50; 26000;occ; 137; 0;40530  
26; 7570.8; 30-NOV-2009 14:22:04; Dark ; 6.5; 101; 11Alp Lep ; 2.58; 7000;occ; 13; 0;40530

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2; 1752.7; 30-NOV-2009 14:25:42; Dark ; 59.0; 7; 19Bet Ori ; 0.10; 14000;occ; 118; 0;40531  
3; 1935.8; 30-NOV-2009 14:28:45; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;40531  
4; 2100.0; 30-NOV-2009 14:31:30; Dark ; 63.0; 27; 24Gam Ori ; 1.64; 26000;occ; 126; 0;40531  
5; 2234.4; 30-NOV-2009 14:33:44; Bright; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;40531  
6; 2329.7; 30-NOV-2009 14:35:19; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;40531  
7; 2472.3; 30-NOV-2009 14:37:42; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;40531  
8; 2618.1; 30-NOV-2009 14:40:08; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;40531  
9; 2852.3; 30-NOV-2009 14:44:02; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;40531  
10; 2963.8; 30-NOV-2009 14:45:53; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;40531  
11; 3823.3; 30-NOV-2009 15:00:13; Bright; 49.5; 36; 50Alp UMa ; 1.80; 6300;occ; 99; 0;40531  
12; 3920.2; 30-NOV-2009 15:01:50; Bright; 50.0; 82; 48Bet UMa ; 2.37; 10600;occ; 100; 0;40531  
13; 4015.2; 30-NOV-2009 15:03:25; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;40531  
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15; 4347.9; 30-NOV-2009 15:08:57; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;40531  
16; 4918.8; 30-NOV-2009 15:18:28; Bright; 59.0; 62; 94Bet Leo ; 2.14; 9700;occ; 118; 0;40531  
17; 5117.1; 30-NOV-2009 15:21:47; Bright; 61.0; 121; 29Gam Vir ; 2.74; 7200;occ; 122; 0;40531  
18; 5455.9; 30-NOV-2009 15:27:25; Dark ; 47.5; 100; 4Gam Crv ; 2.58; 13100;occ; 95; 0;40531  
19; 5551.1; 30-NOV-2009 15:29:01; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40531  
20; 6119.7; 30-NOV-2009 15:38:29; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40531  
21; 6438.6; 30-NOV-2009 15:43:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40531  
22; 6636.8; 30-NOV-2009 15:47:06; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40531  
23; 6741.3; 30-NOV-2009 15:48:51; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;40531  
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