

# GOMOS Daily Report 29-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	01OCT2009 04:31:37
Data source version	GOMOS/5.00L03
Start time of products	29SEP2009 20:13:06
Stop time of products	29SEP2009 23:59:00
Store outputs in DB	Yes
Nb of level 1b prods	32
Nb of prods with errors	0

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

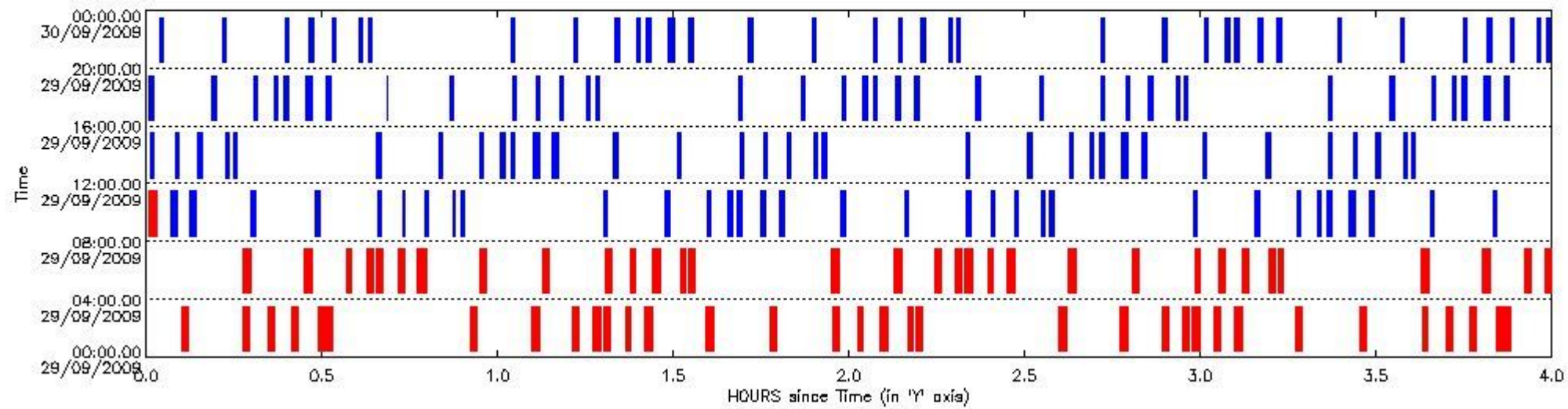
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
29-SEP-2009 00:05:59	16BetCet	52	39635
29-SEP-2009 00:16:37	88GamPeg	140	39635
29-SEP-2009 00:20:49	21AlpAnd	58	39635
29-SEP-2009 00:24:47	43BetAnd	53	39635
29-SEP-2009 00:29:24	11BetCas	74	39635
29-SEP-2009 00:30:49	27GamCas	76	39635
29-SEP-2009 00:55:14	66AlpGem	24	39635
29-SEP-2009 01:05:42	10AlpCMi	8	39635
29-SEP-2009 01:12:50	15RhoPup	132	39635
29-SEP-2009 01:16:20	31EtaCMa	88	39635
29-SEP-2009 01:17:59	21EpsCMa	23	39635
29-SEP-2009 01:21:47	DSA1059	0	39636
29-SEP-2009 01:25:05	AlpCol	108	39636
29-SEP-2009 01:35:36	The1Eri	157	39636
29-SEP-2009 01:46:35	16BetCet	52	39636

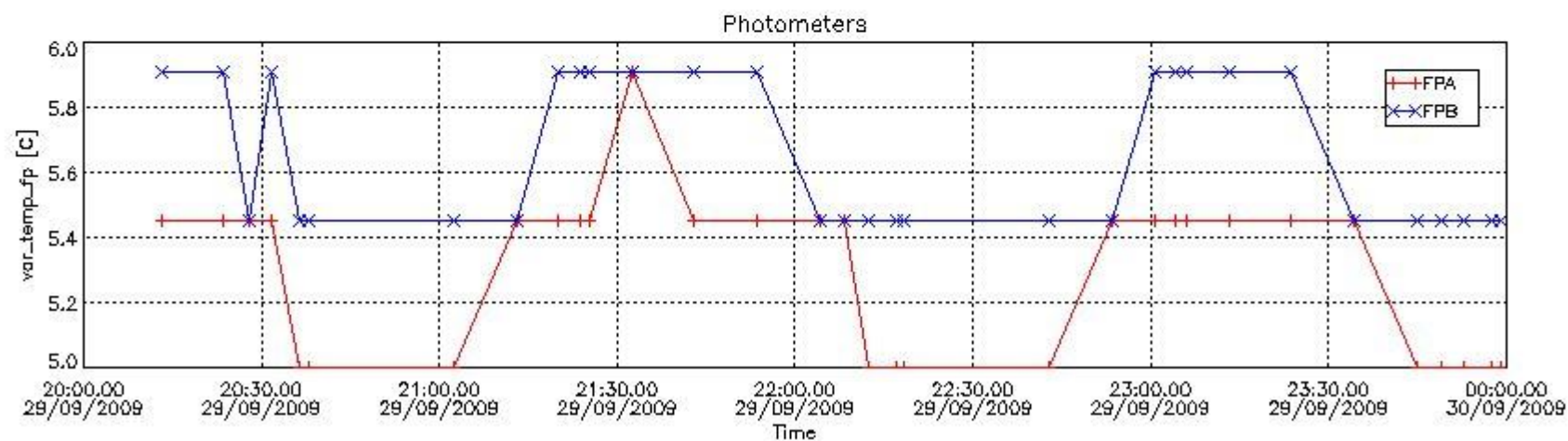
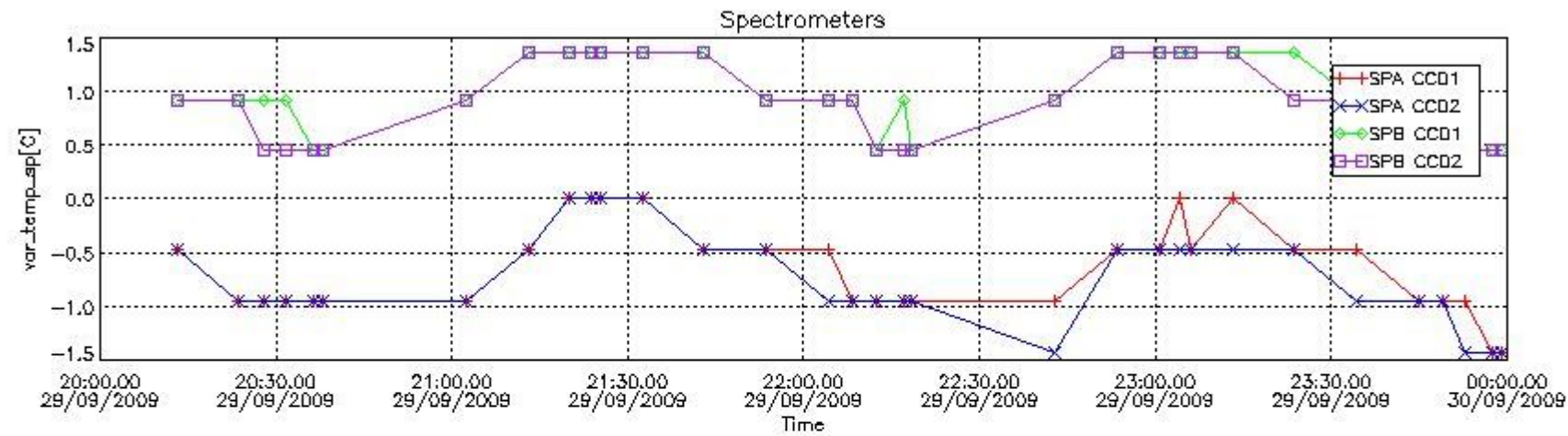
29-SEP-2009 01:57:13	88GamPeg	140	39636
29-SEP-2009 02:01:25	21AlpAnd	58	39636
29-SEP-2009 02:05:22	43BetAnd	53	39636
29-SEP-2009 02:10:00	11BetCas	74	39636
29-SEP-2009 02:11:24	27GamCas	76	39636
29-SEP-2009 02:35:50	66AlpGem	24	39636
29-SEP-2009 02:46:18	10AlpCMi	8	39636
29-SEP-2009 02:53:26	15RhoPup	132	39636
29-SEP-2009 02:56:57	31EtaCMa	88	39636
29-SEP-2009 02:58:36	21EpsCMa	23	39636
29-SEP-2009 03:02:24	DSA1059	0	39637
29-SEP-2009 03:05:43	AlpCol	108	39637
29-SEP-2009 03:16:13	The1Eri	157	39637
29-SEP-2009 03:27:11	16BetCet	52	39637
29-SEP-2009 03:37:49	88GamPeg	140	39637
29-SEP-2009 03:42:00	21AlpAnd	58	39637
29-SEP-2009 03:45:57	43BetAnd	53	39637
29-SEP-2009 03:50:36	11BetCas	74	39637
29-SEP-2009 03:52:00	27GamCas	76	39637
29-SEP-2009 04:16:26	66AlpGem	24	39637
29-SEP-2009 04:26:55	10AlpCMi	8	39637
29-SEP-2009 04:34:03	15RhoPup	132	39637
29-SEP-2009 04:37:34	31EtaCMa	88	39637
29-SEP-2009 04:39:13	21EpsCMa	23	39637
29-SEP-2009 04:43:01	DSA1059	0	39638
29-SEP-2009 04:46:20	AlpCol	108	39638
29-SEP-2009 04:56:49	The1Eri	157	39638
29-SEP-2009 05:07:47	16BetCet	52	39638
29-SEP-2009 05:18:25	88GamPeg	140	39638
29-SEP-2009 05:22:36	21AlpAnd	58	39638
29-SEP-2009 05:26:32	43BetAnd	53	39638
29-SEP-2009 05:31:11	11BetCas	74	39638
29-SEP-2009 05:32:35	27GamCas	76	39638
29-SEP-2009 05:57:02	66AlpGem	24	39638
29-SEP-2009 06:07:32	10AlpCMi	8	39638
29-SEP-2009 06:14:40	15RhoPup	132	39638
29-SEP-2009 06:18:11	31EtaCMa	88	39638
29-SEP-2009 06:19:50	21EpsCMa	23	39638
29-SEP-2009 06:23:38	DSA1059	0	39639
29-SEP-2009 06:26:58	AlpCol	108	39639
29-SEP-2009 06:37:26	The1Eri	157	39639
29-SEP-2009 06:48:23	16BetCet	52	39639
29-SEP-2009 06:59:00	88GamPeg	140	39639
29-SEP-2009 07:03:12	21AlpAnd	58	39639
29-SEP-2009 07:07:08	43BetAnd	53	39639
29-SEP-2009 07:11:47	11BetCas	74	39639
29-SEP-2009 07:13:11	27GamCas	76	39639
29-SEP-2009 07:37:38	66AlpGem	24	39639
29-SEP-2009 07:48:09	10AlpCMi	8	39639
29-SEP-2009 07:55:17	15RhoPup	132	39639
29-SEP-2009 07:58:48	31EtaCMa	88	39639
29-SEP-2009 08:00:27	21EpsCMa	23	39639

#### 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_1PNPDE20090929_201306_000000352083_00014_39647_8758.N1	29-SEP-2009 20:13:06	Straylight	35.000	52	16Bet Cet	2.0370	4500.0	70	39647	No
2	GOM_TRA_1PNPDE20090929_202340_000000362083_00014_39647_8759.N1	29-SEP-2009 20:23:40	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	39647	No

3	GOM_TRA_1PNPDE20090929_202751_000000362083_00014_39647_8760.N1	29-SEP-2009 20:27:51	Bright	35.500	58	21Alp And	2.0730	11000.	71	39647	No
4	GOM_TRA_1PNPDE20090929_203143_000000432083_00014_39647_8761.N1	29-SEP-2009 20:31:43	Bright	42.500	53	43Bet And	2.0480	3300.0	85	39647	No
5	GOM_TRA_1PNPDE20090929_203623_000000352083_00014_39647_8762.N1	29-SEP-2009 20:36:23	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	39647	No
6	GOM_TRA_1PNPDE20090929_203750_000000352083_00014_39647_8763.N1	29-SEP-2009 20:37:50	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	39647	No
7	GOM_TRA_1PNPDE20090929_210222_000000372083_00014_39647_8764.N1	29-SEP-2009 21:02:22	Twilight	36.500	24	66Alp Gem	1.5800	10200.	73	39647	No
8	GOM_TRA_1PNPDE20090929_211258_000000432083_00014_39647_8765.N1	29-SEP-2009 21:12:58	Dark	42.500	8	10Alp CMi	0.40000	6500.0	85	39647	No
9	GOM_TRA_1PNPDE20090929_212005_000000352083_00014_39647_8764.N1	29-SEP-2009 21:20:05	Dark	35.000	132	15Rho Pup	2.8030	6900.0	70	39647	No
10	GOM_TRA_1PNPDE20090929_212338_000000402083_00014_39647_8765.N1	29-SEP-2009 21:23:38	Dark	39.500	88	31Eta CMa	2.4480	20000.	79	39647	No
11	GOM_TRA_1PNPDE20090929_212519_000000442083_00014_39647_8766.N1	29-SEP-2009 21:25:19	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	39647	No
12	GOM_TRA_1PNPDE20090929_213228_000000522083_00015_39648_8767.N1	29-SEP-2009 21:32:28	Dark	52.000	108	Alp Col	2.6520	15200.	104	39648	No
13	GOM_TRA_1PNPDE20090929_214250_000000422083_00015_39648_8768.N1	29-SEP-2009 21:42:50	Straylight	41.500	157	The1Eri	2.9060	9300.0	83	39648	No
14	GOM_TRA_1PNPDE20090929_215342_000000352083_00015_39648_8769.N1	29-SEP-2009 21:53:42	Straylight	35.000	52	16Bet Cet	2.0370	4500.0	70	39648	No
15	GOM_TRA_1PNPDE20090929_220416_000000362083_00015_39648_8770.N1	29-SEP-2009 22:04:16	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	39648	No
16	GOM_TRA_1PNPDE20090929_220826_000000362083_00015_39648_8771.N1	29-SEP-2009 22:08:26	Bright	35.500	58	21Alp And	2.0730	11000.	71	39648	No
17	GOM_TRA_1PNPDE20090929_221218_000000432083_00015_39648_8772.N1	29-SEP-2009 22:12:18	Bright	42.500	53	43Bet And	2.0480	3300.0	85	39648	No
18	GOM_TRA_1PNPDE20090929_221659_000000352083_00015_39648_8773.N1	29-SEP-2009 22:16:59	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	39648	No
19	GOM_TRA_1PNPDE20090929_221825_000000352083_00015_39648_8774.N1	29-SEP-2009 22:18:25	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	39648	No
20	GOM_TRA_1PNPDE20090929_224257_000000372083_00015_39648_8775.N1	29-SEP-2009 22:42:57	Twilight	36.500	24	66Alp Gem	1.5800	10200.	73	39648	No
21	GOM_TRA_1PNPDE20090929_225335_000000432083_00015_39648_8776.N1	29-SEP-2009 22:53:35	Dark	42.500	8	10Alp CMi	0.40000	6500.0	85	39648	No
22	GOM_TRA_1PNPDE20090929_230041_000000352083_00015_39648_8770.N1	29-SEP-2009 23:00:41	Dark	35.000	132	15Rho Pup	2.8030	6900.0	70	39648	No
23	GOM_TRA_1PNPDE20090929_230415_000000392083_00015_39648_8771.N1	29-SEP-2009 23:04:15	Dark	39.000	88	31Eta CMa	2.4480	20000.	78	39648	No
24	GOM_TRA_1PNPDE20090929_230556_000000442083_00015_39648_8772.N1	29-SEP-2009 23:05:56	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	39648	No
25	GOM_TRA_1PNPDE20090929_231305_000000522083_00016_39649_8773.N1	29-SEP-2009 23:13:05	Dark	52.000	108	Alp Col	2.6520	15200.	104	39649	No
26	GOM_TRA_1PNPDE20090929_232327_000000412083_00016_39649_8774.N1	29-SEP-2009 23:23:27	Straylight	41.000	157	The1Eri	2.9060	9300.0	82	39649	No
27	GOM_TRA_1PNPDE20090929_233418_000000352083_00016_39649_8775.N1	29-SEP-2009 23:34:18	Straylight	34.500	52	16Bet Cet	2.0370	4500.0	69	39649	No
28	GOM_TRA_1PNPDE20090929_234451_000000362083_00016_39649_8776.N1	29-SEP-2009 23:44:51	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	39649	No
29	GOM_TRA_1PNPDE20090929_234902_000000362083_00016_39649_8777.N1	29-SEP-2009 23:49:02	Bright	35.500	58	21Alp And	2.0730	11000.	71	39649	No
30	GOM_TRA_1PNPDE20090929_235253_000000422083_00016_39649_8778.N1	29-SEP-2009 23:52:53	Bright	42.000	53	43Bet And	2.0480	3300.0	84	39649	No
31	GOM_TRA_1PNPDE20090929_235734_000000352083_00016_39649_8779.N1	29-SEP-2009 23:57:34	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	39649	No
32	GOM_TRA_1PNPDE20090929_235900_000000342083_00016_39649_8780.N1	29-SEP-2009 23:59:00	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39649	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).

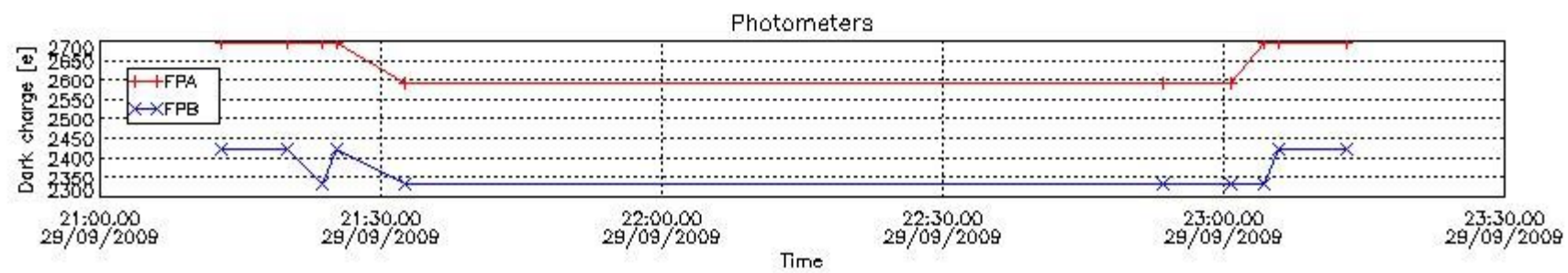
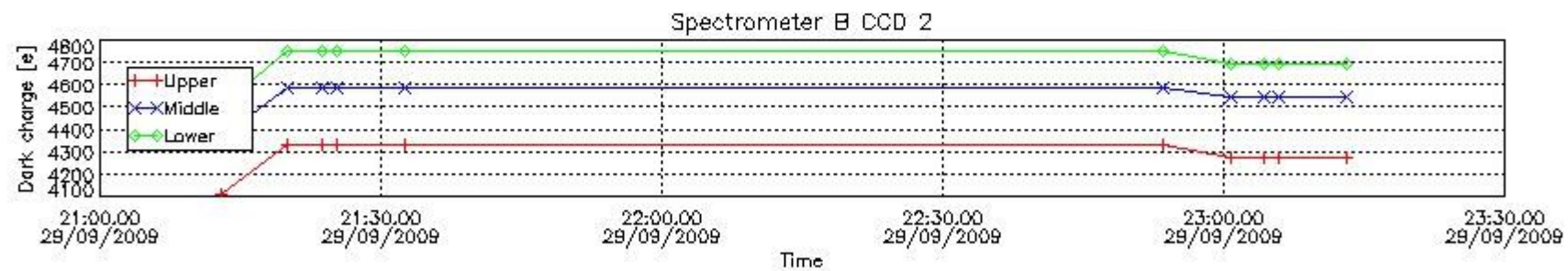
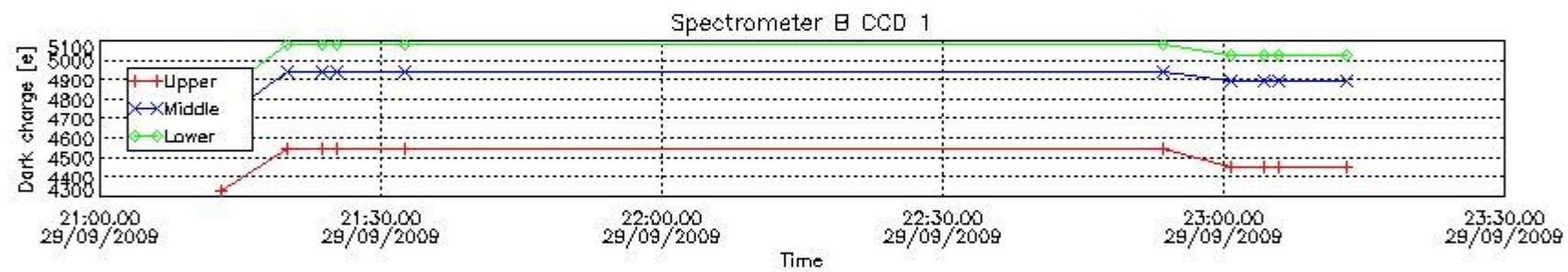
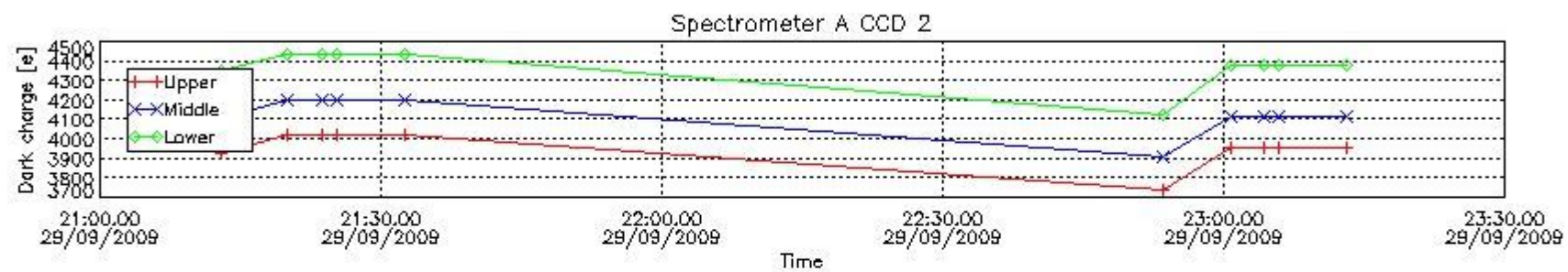
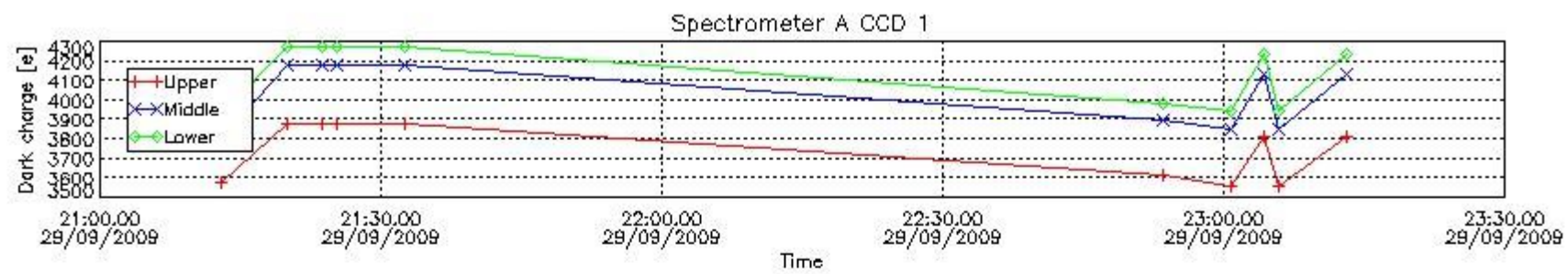
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090929_201306_000000352083_00014_39647_8758.N1	DC map used
GOM_TRA_1PNPDE20090929_202340_000000362083_00014_39647_8759.N1	DC map used
GOM_TRA_1PNPDE20090929_202751_000000362083_00014_39647_8760.N1	DC map used
GOM_TRA_1PNPDE20090929_203143_000000432083_00014_39647_8761.N1	DC map used
GOM_TRA_1PNPDE20090929_203623_000000352083_00014_39647_8762.N1	DC map used
GOM_TRA_1PNPDE20090929_203750_000000352083_00014_39647_8763.N1	DC map used
GOM_TRA_1PNPDE20090929_210222_000000372083_00014_39647_8764.N1	DC map used
GOM_TRA_1PNPDE20090929_211258_000000432083_00014_39647_8765.N1	DC map used

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





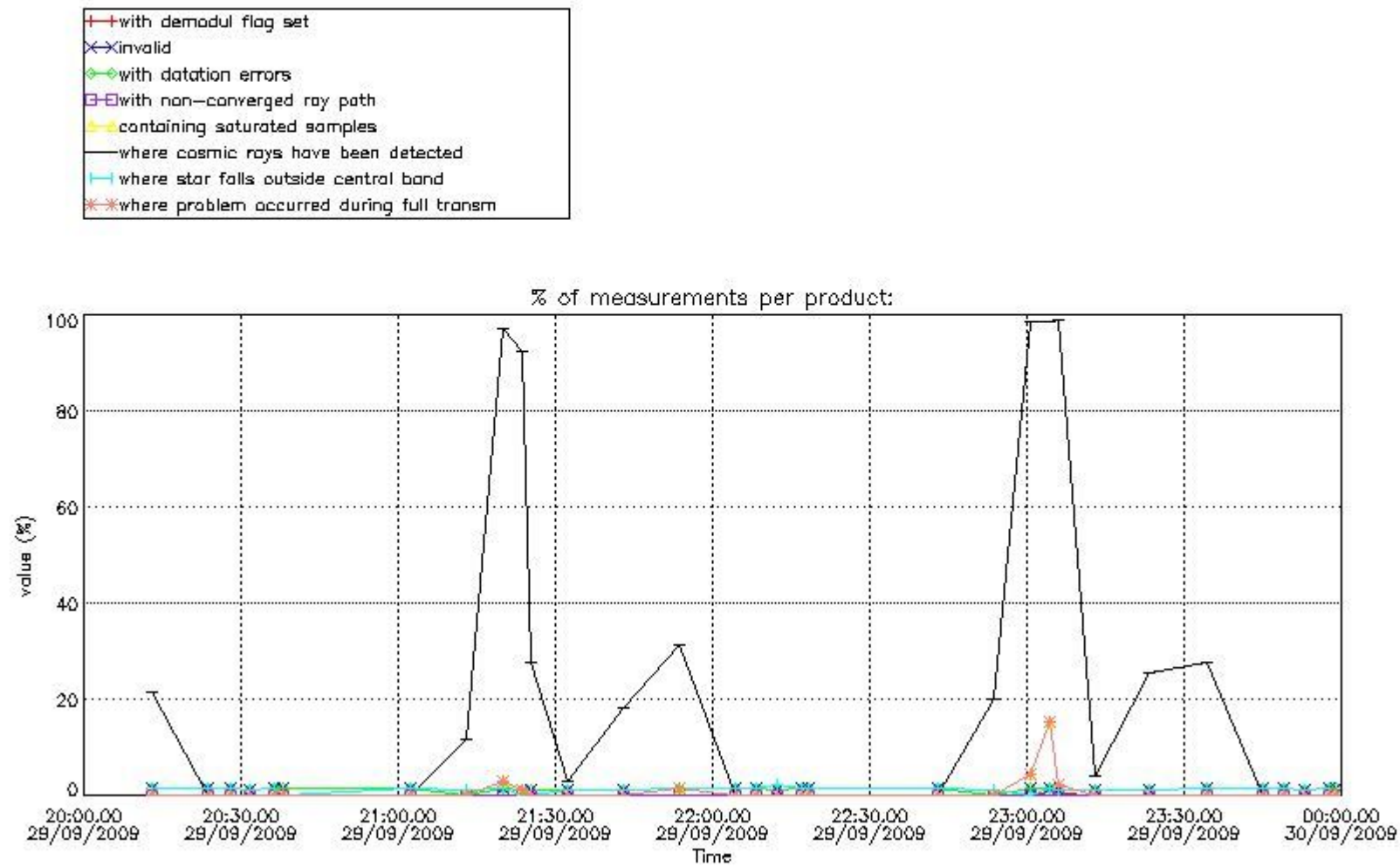
## 5. Demodulation flag and quality information monitoring

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.

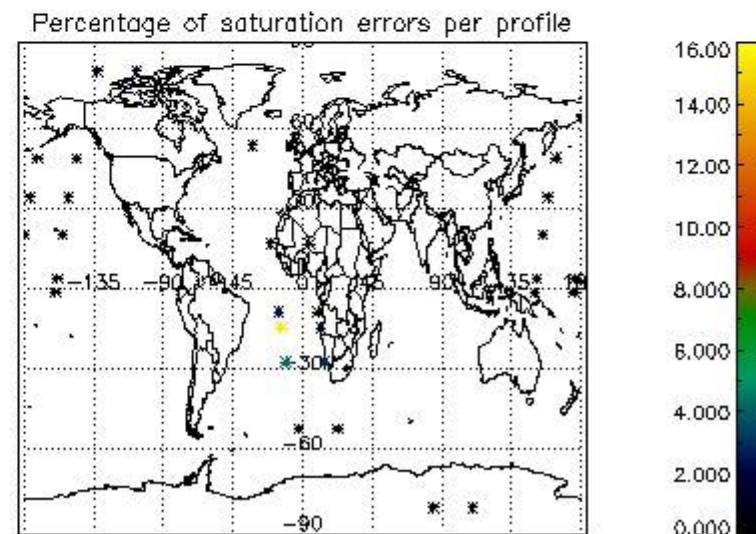
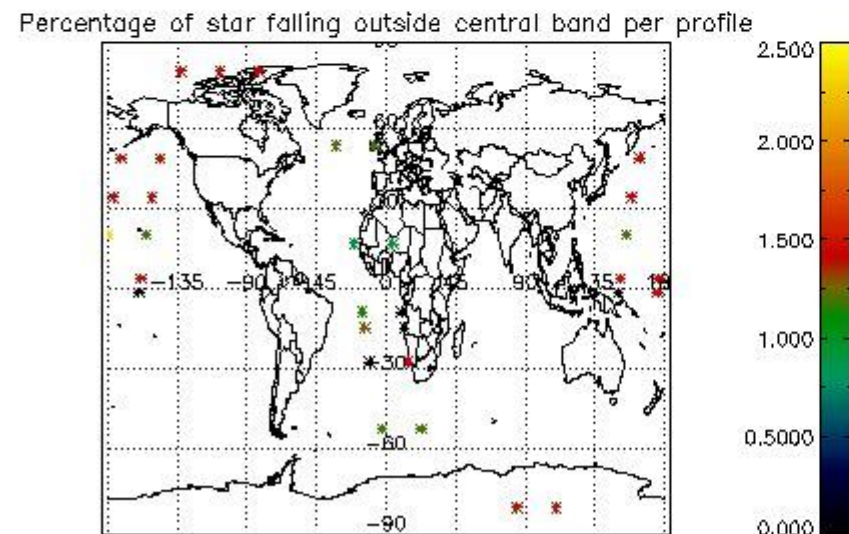
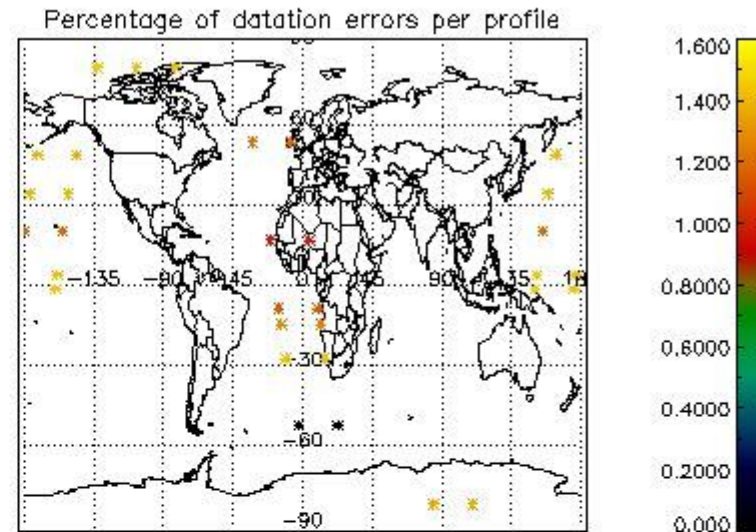
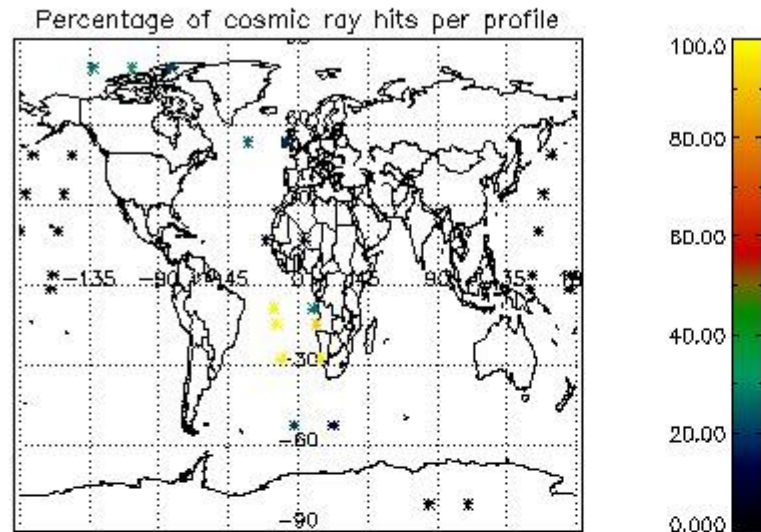
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.3750 %
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)

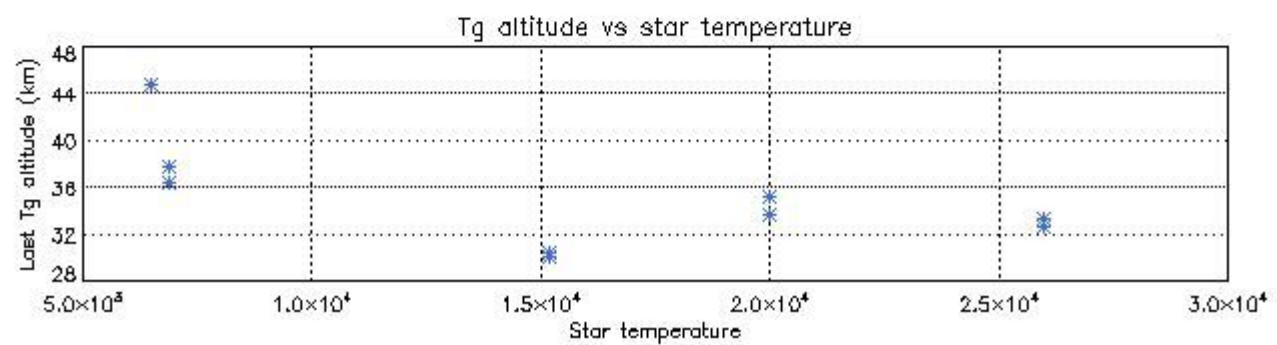
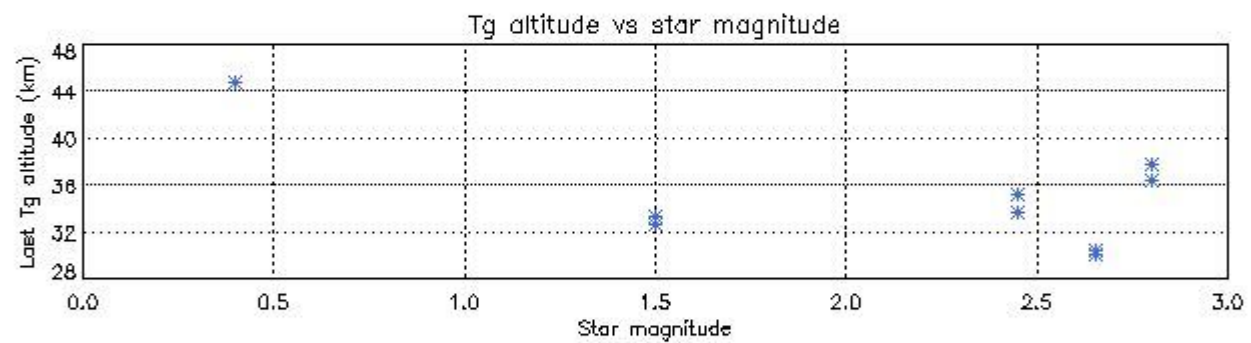
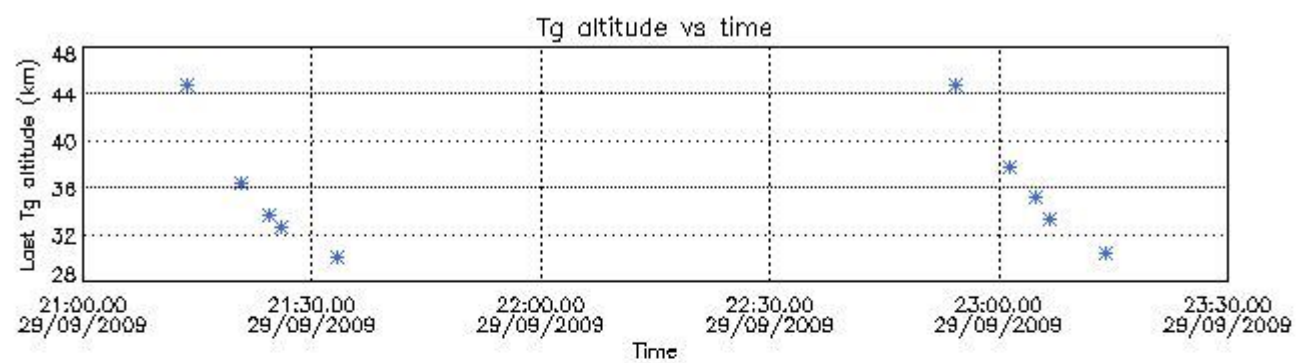
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	35.868	32.679	NaN
St. deviation:	5.2398	1.3804	NaN
Maximum:	44.743	35.558	NaN
Minimum:	29.976	30.905	NaN
Number of data:	10.000	15.000	NaN

### 6.2 Plot for DARK limb products

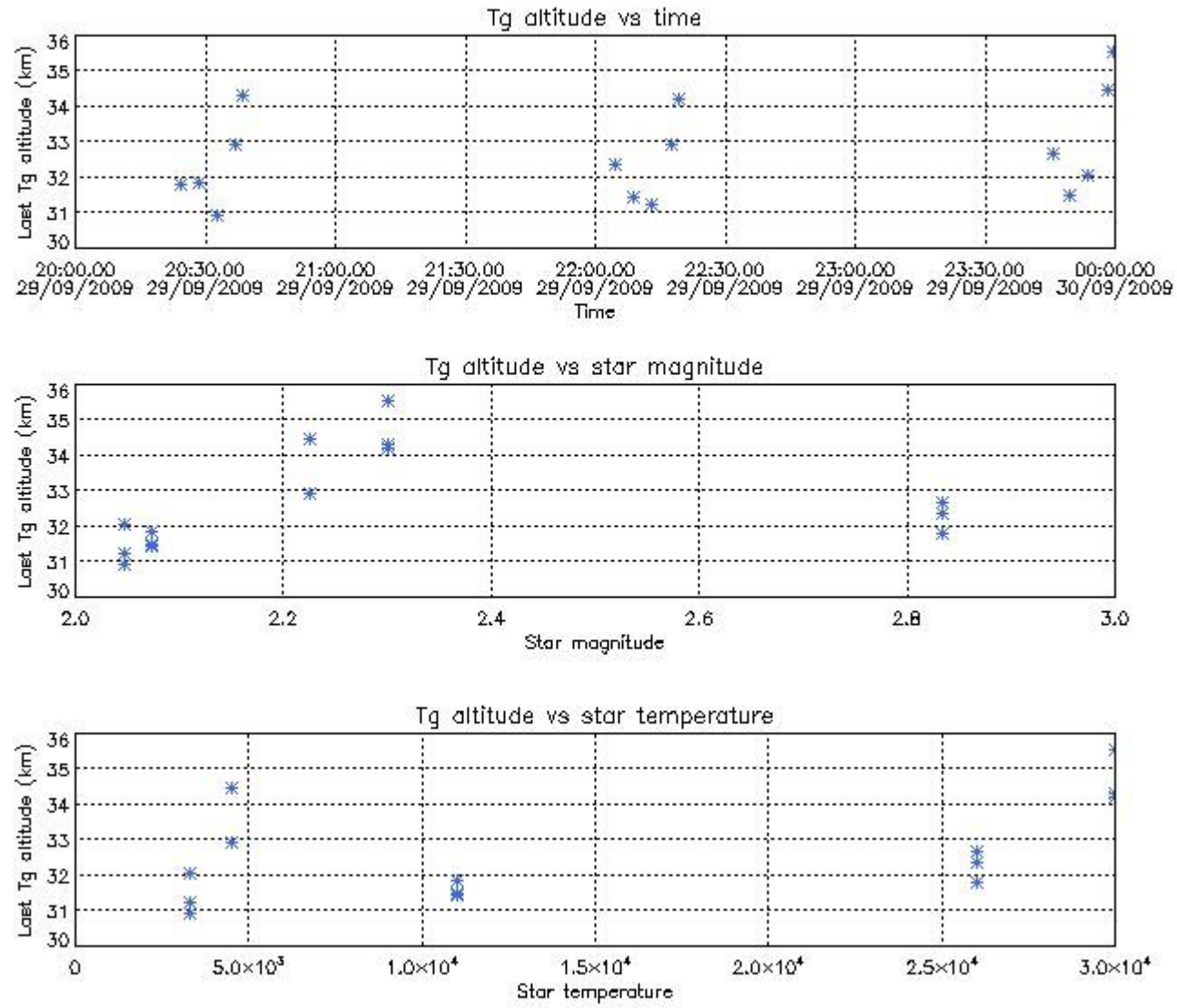


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

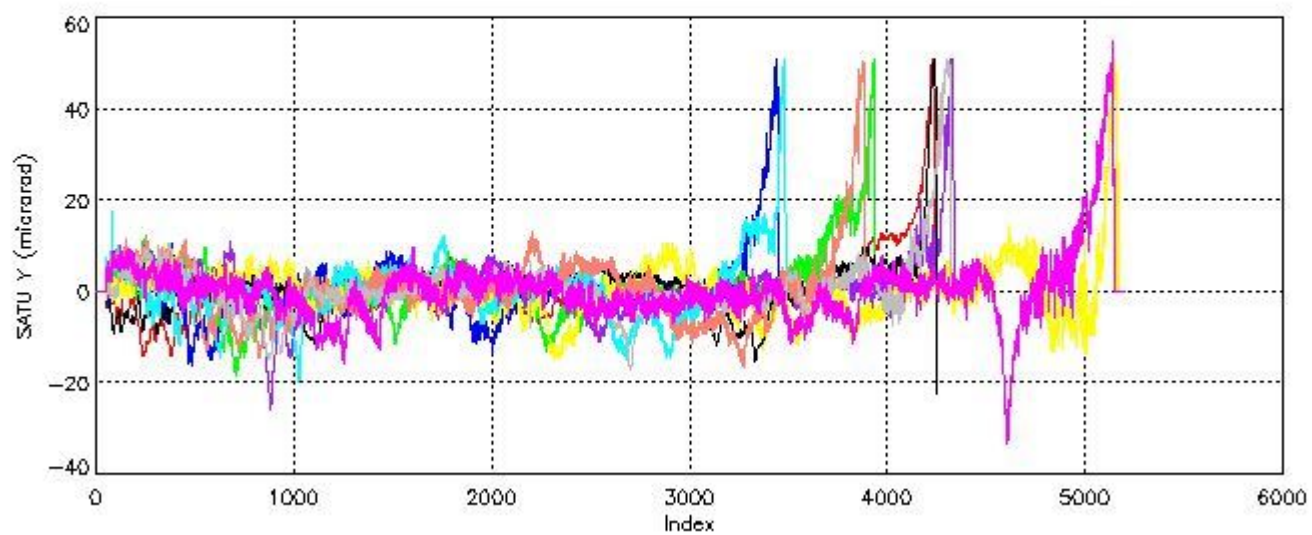
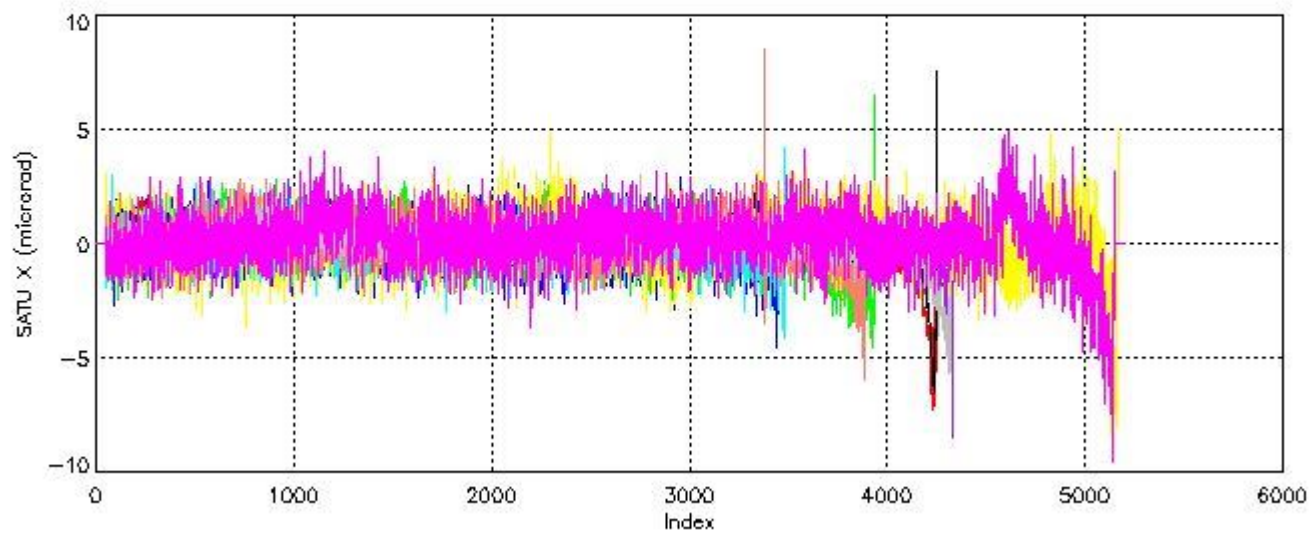


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.27810	-0.92950	0.22775	-0.37726
St. deviation:	0.74046	5.0859	0.89996	6.0244
Maximum:	4.0000	17.400	6.1000	18.400
Minimum:	-3.7000	-25.900	-6.4000	-23.700

Number of data:	12350.	12350.	15200.	15200.
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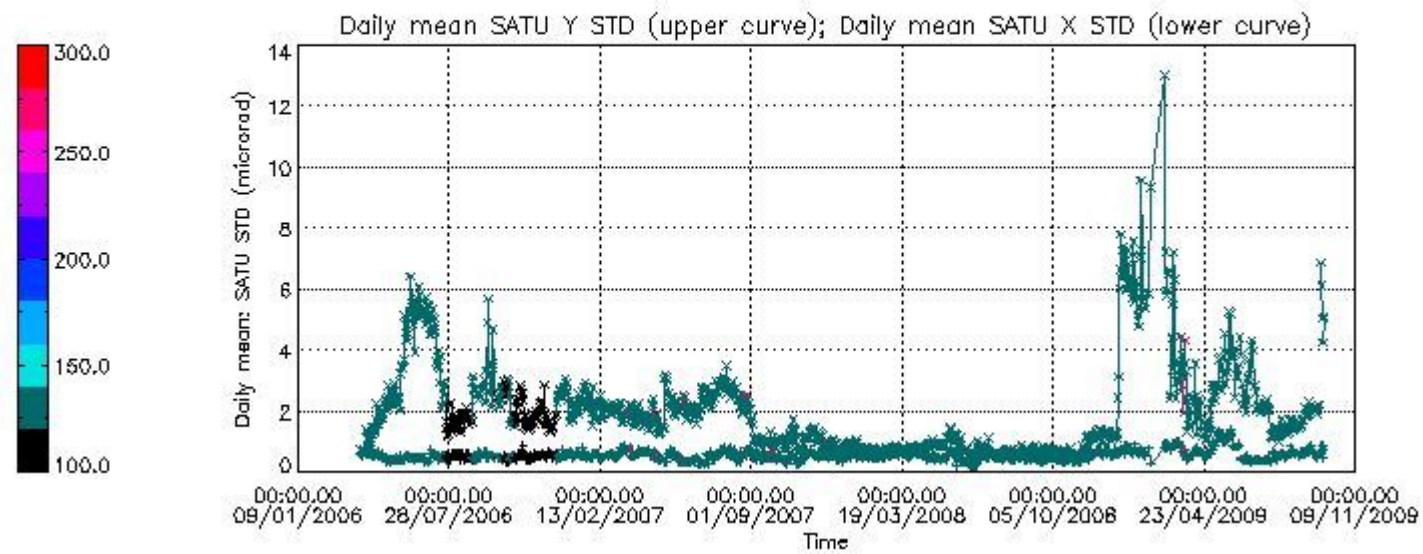
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

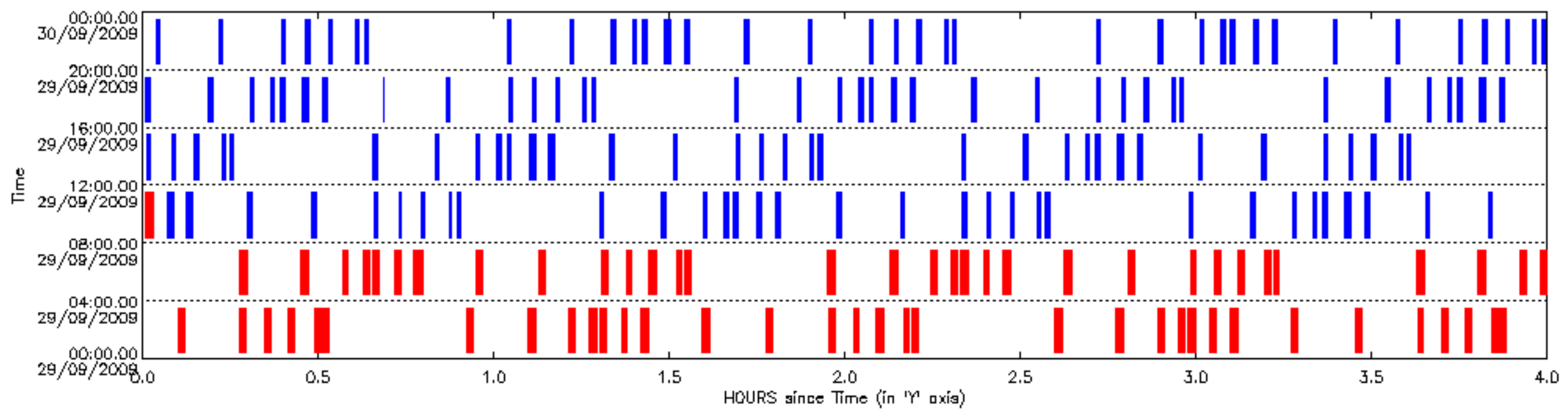


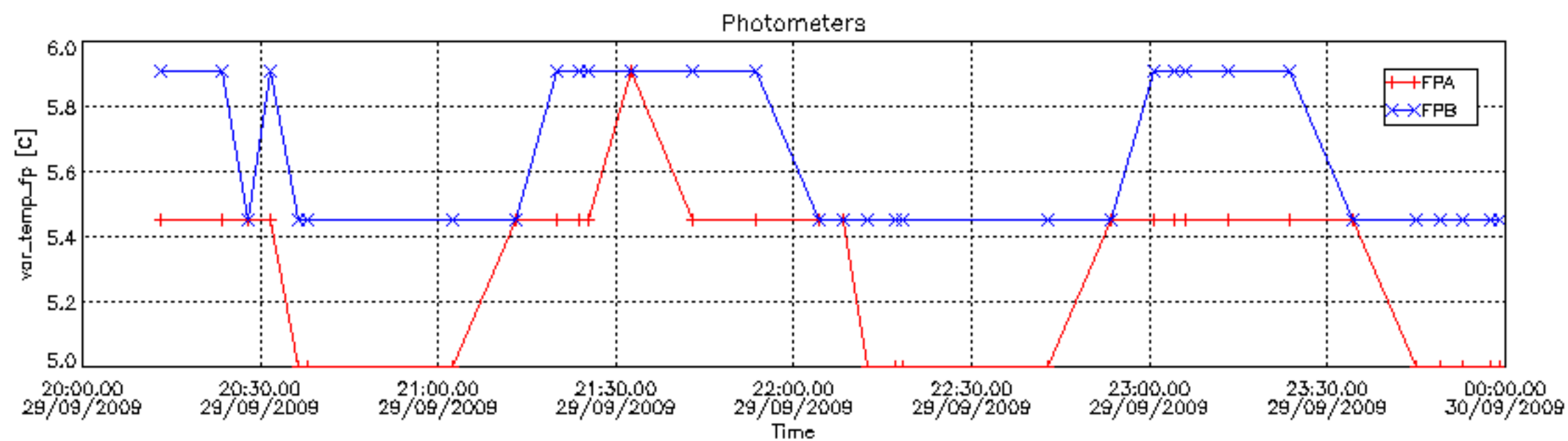
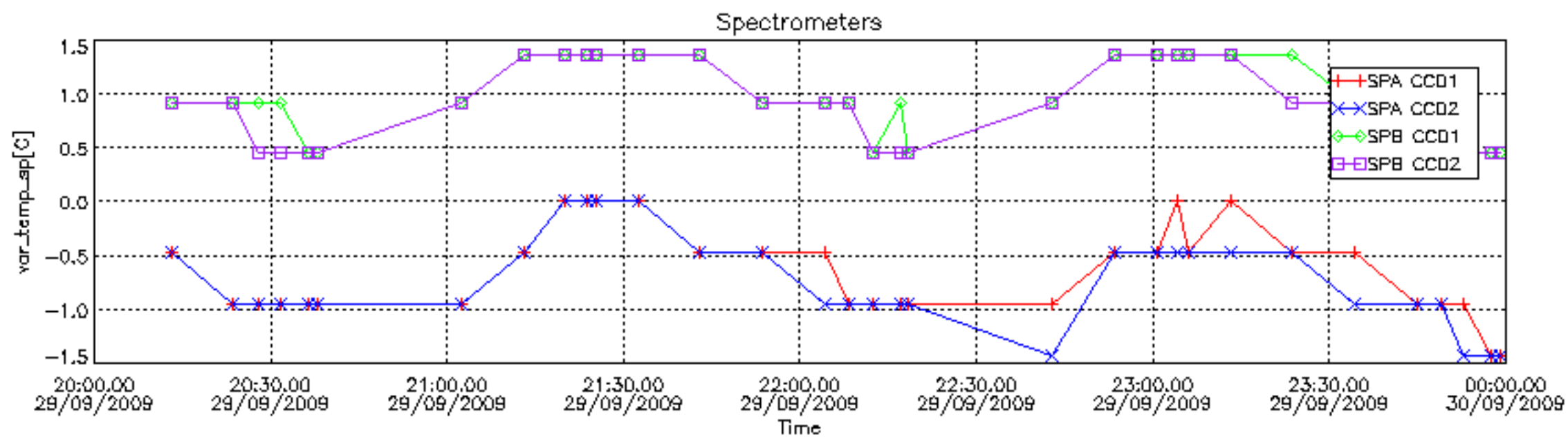
### 8. Auxiliary Data Files used for the production reported in section 2.4

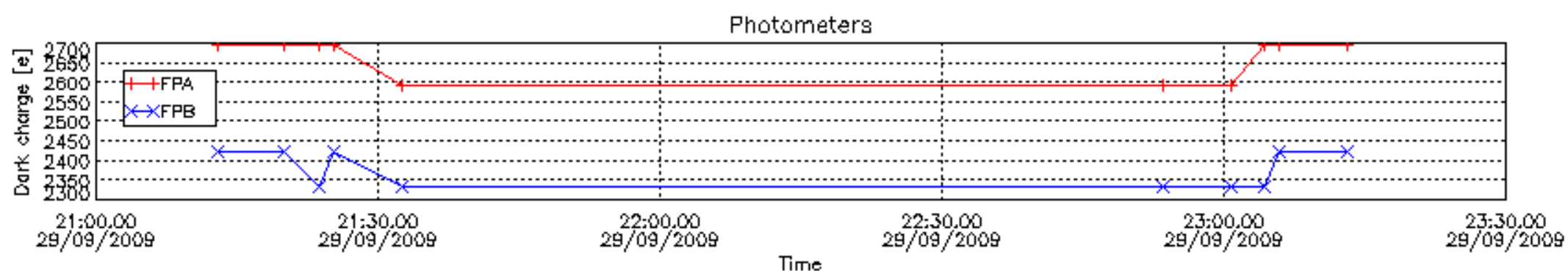
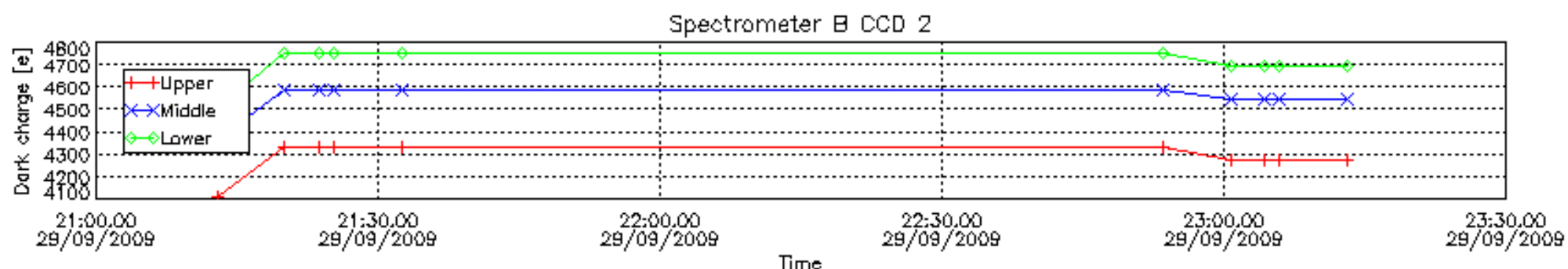
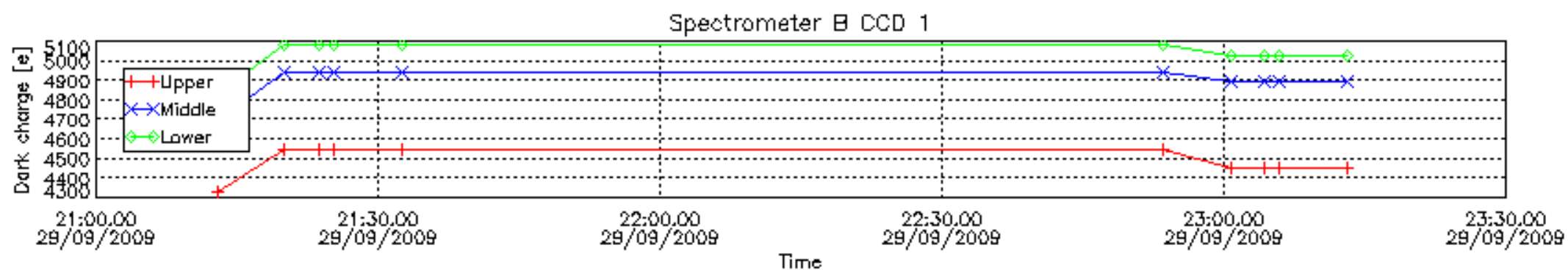
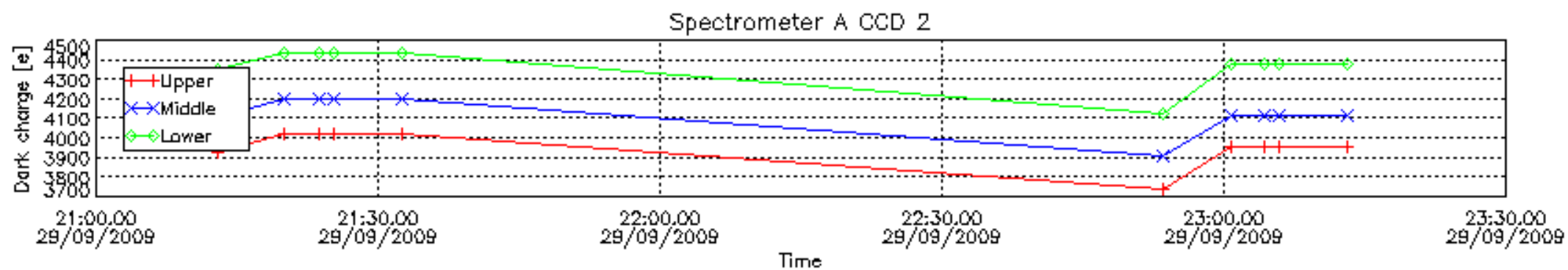
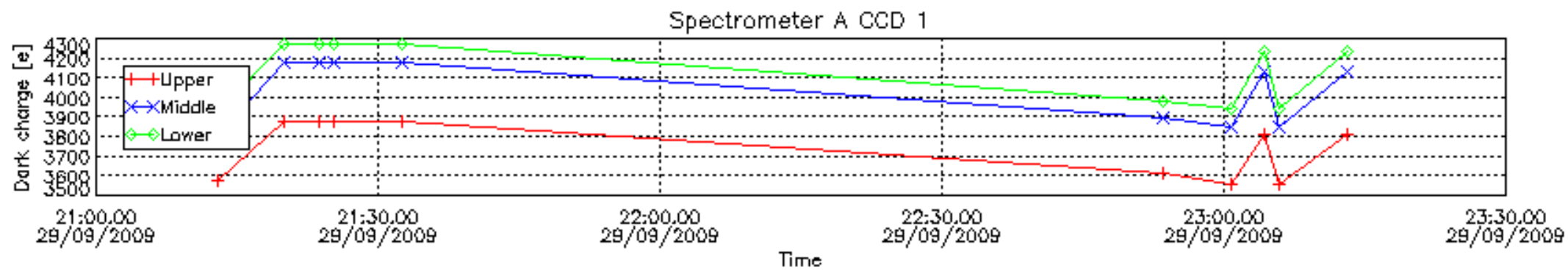
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-SEP-2009 20:13:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090922_092505_20090920_000000_20100101_000000	1	29-SEP-2009 20:13:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-SEP-2009 20:13:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-SEP-2009 20:13:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-SEP-2009 20:13:06
ECMWF_FILE	AUX_ECF_AXNECM20090929_064111_20090929_150000_20090930_030000	1	29-SEP-2009 20:13:06
ECMWF_FILE	AUX_ECF_AXNECM20090929_064112_20090929_210000_20090930_090000	9	29-SEP-2009 21:20:05
OPTIONAL_ECMWF_FILE	MISSING	1	29-SEP-2009 20:13:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090929_195916_000041442083_00014_39647_8865.N1	1	29-SEP-2009 20:13:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090929_211339_000057382083_00014_39647_8866.N1	9	29-SEP-2009 21:20:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090929_225436_000057382083_00015_39648_8867.N1	22	29-SEP-2009 23:00:41





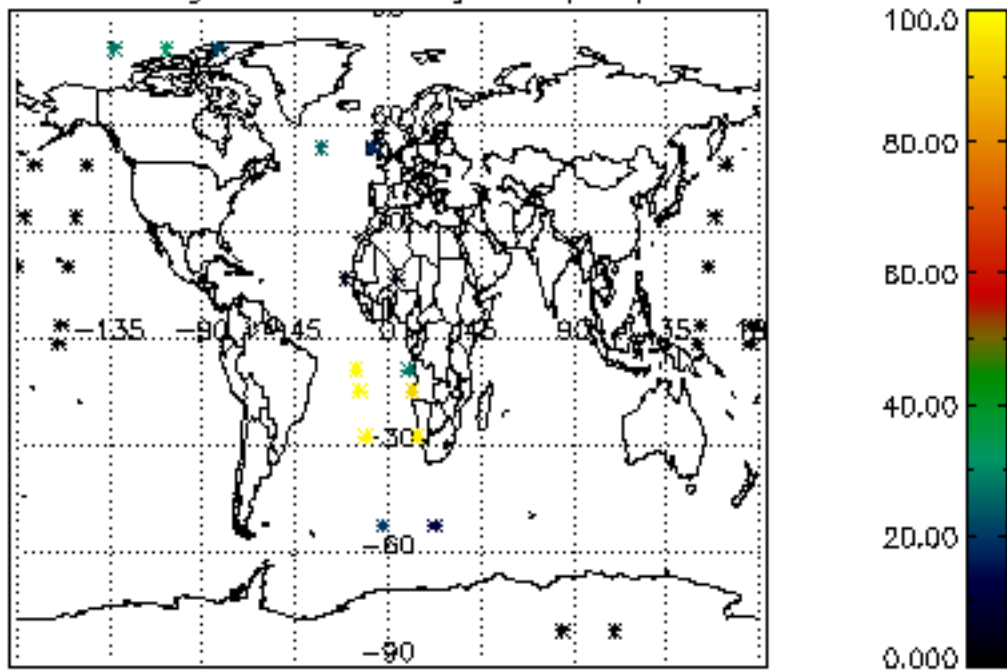




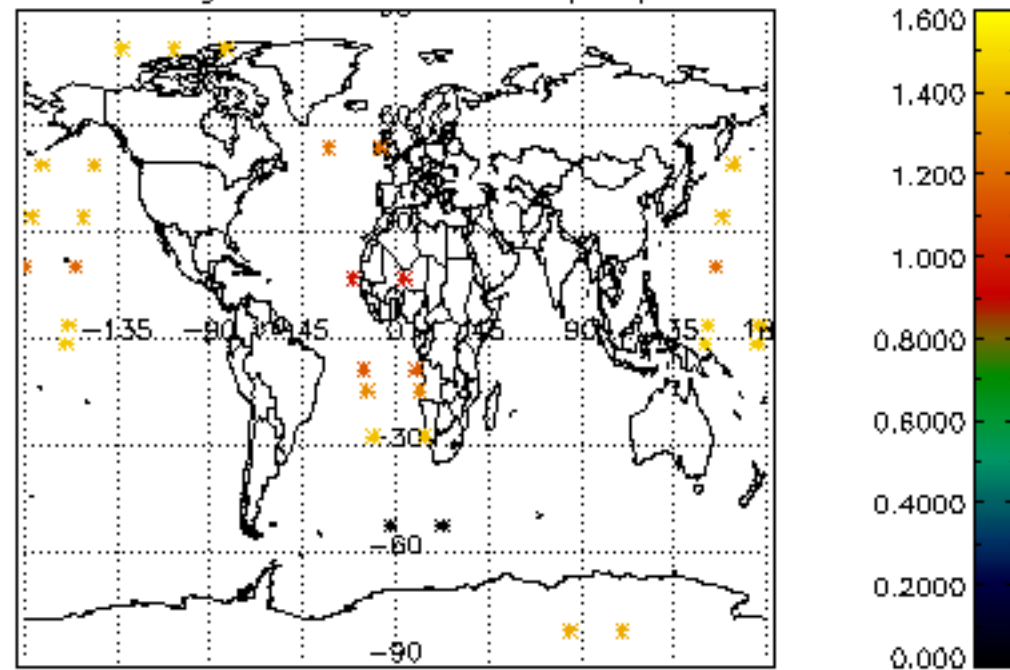




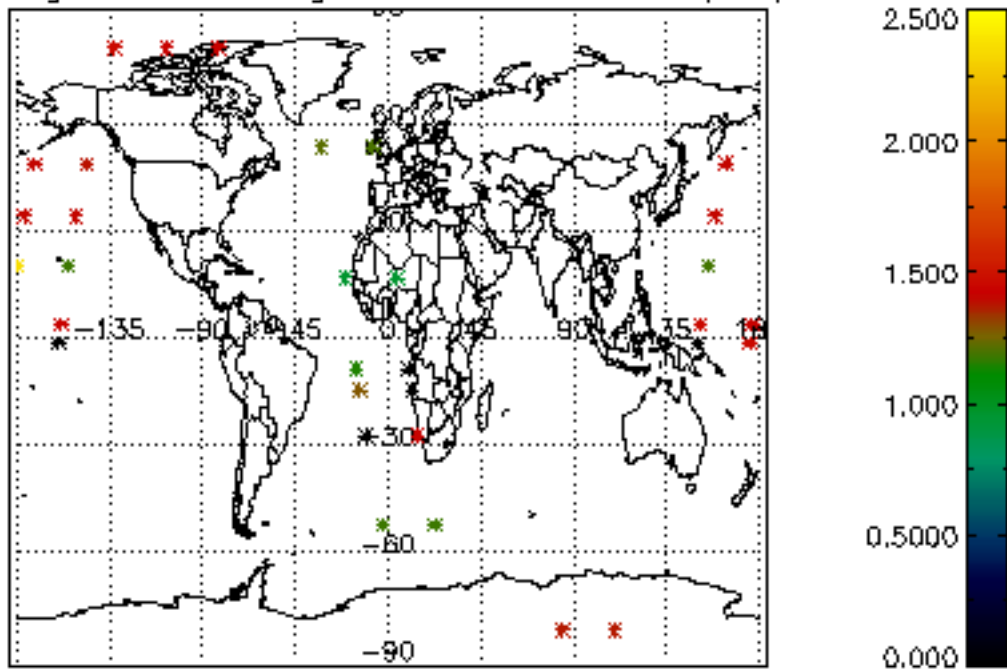
Percentage of cosmic ray hits per profile



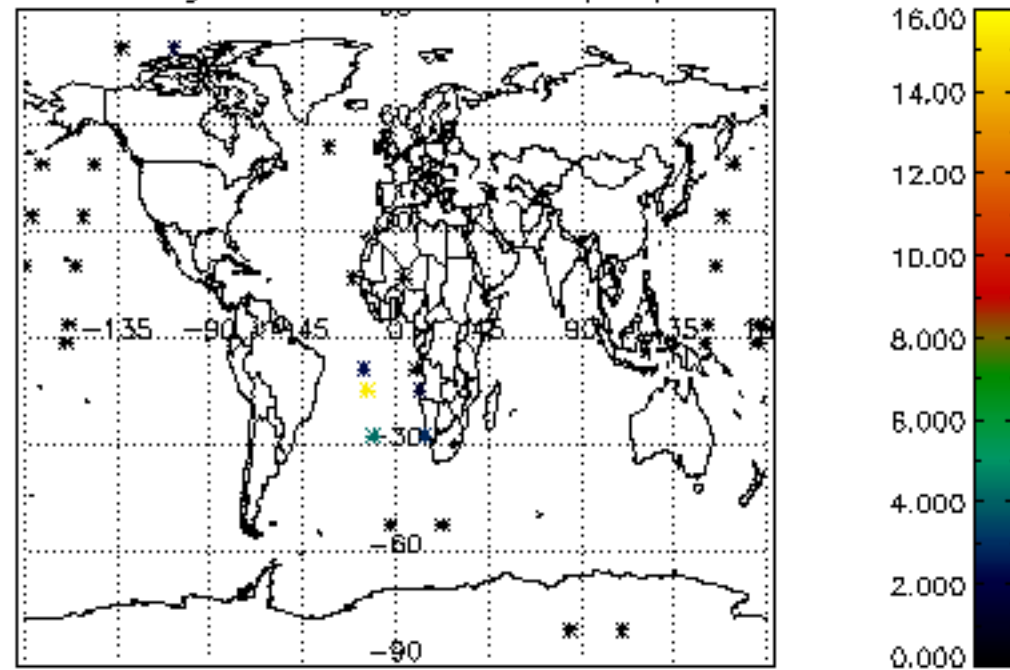
Percentage of datation errors per profile



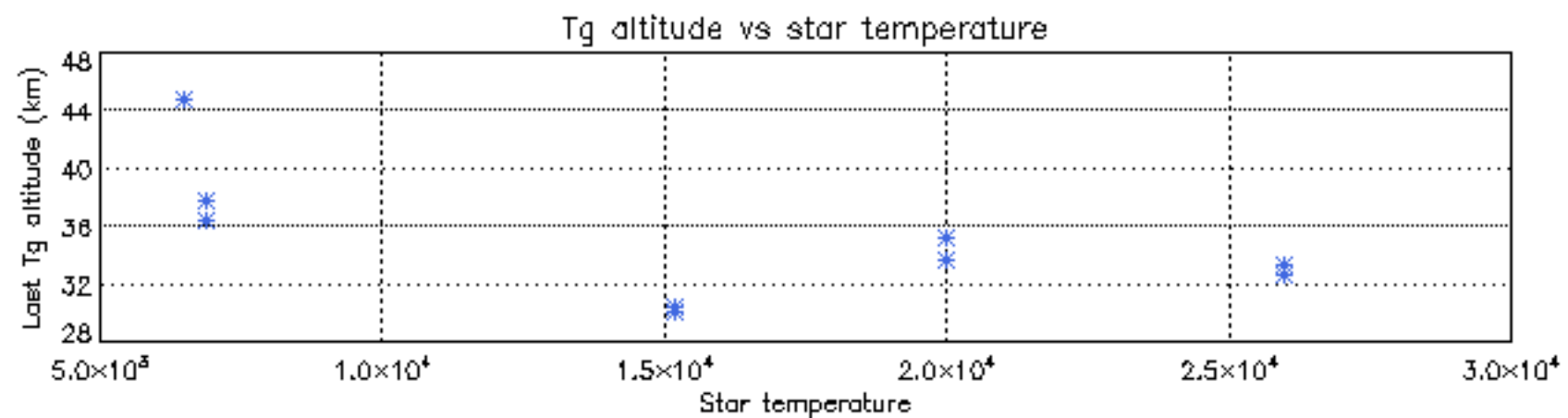
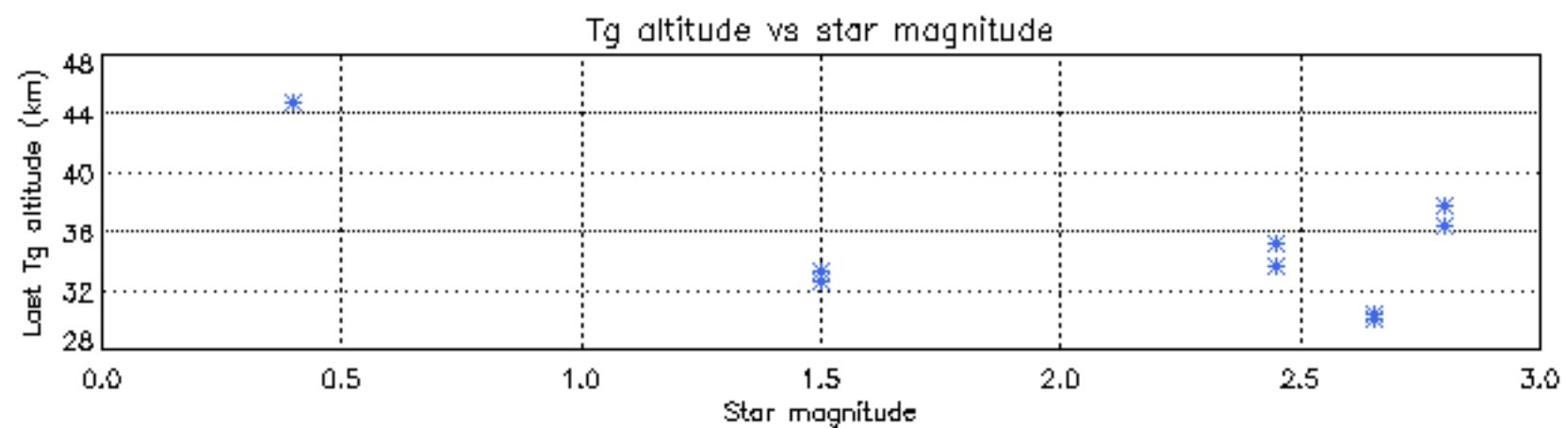
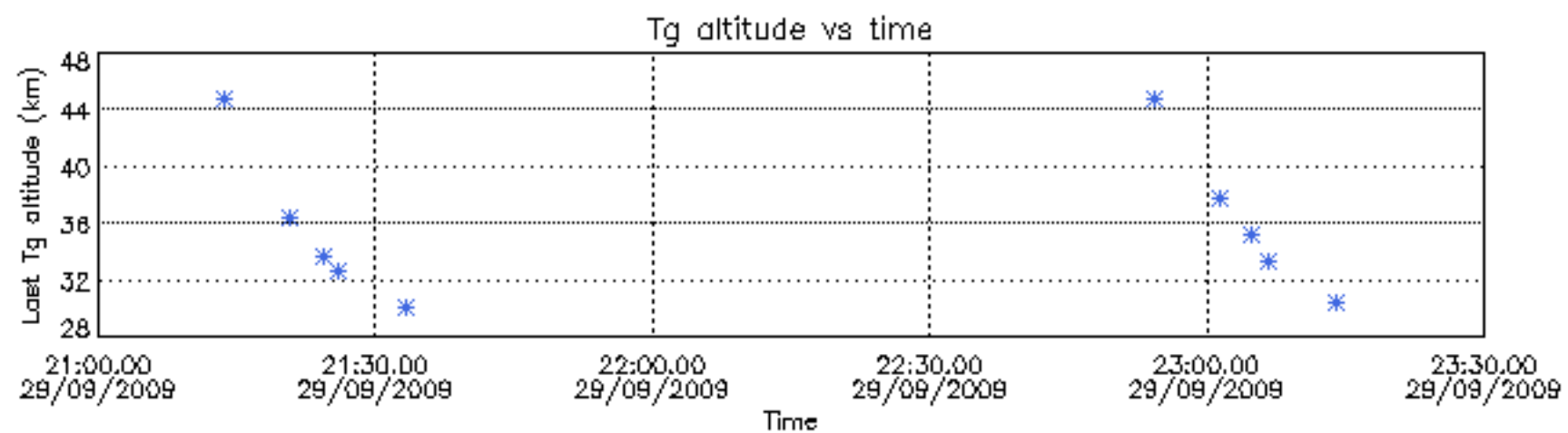
Percentage of star falling outside central band per profile



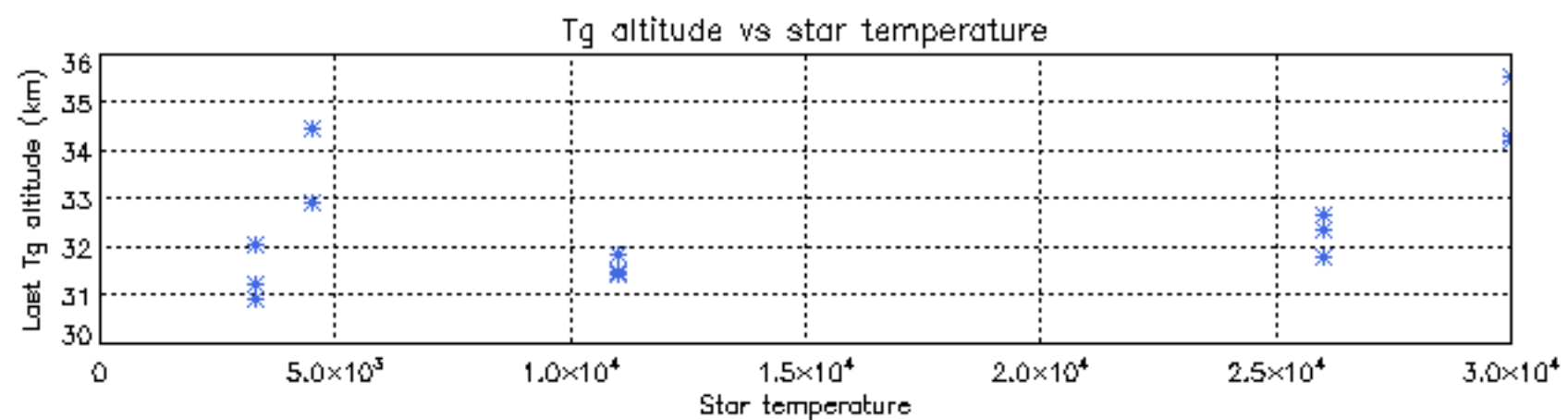
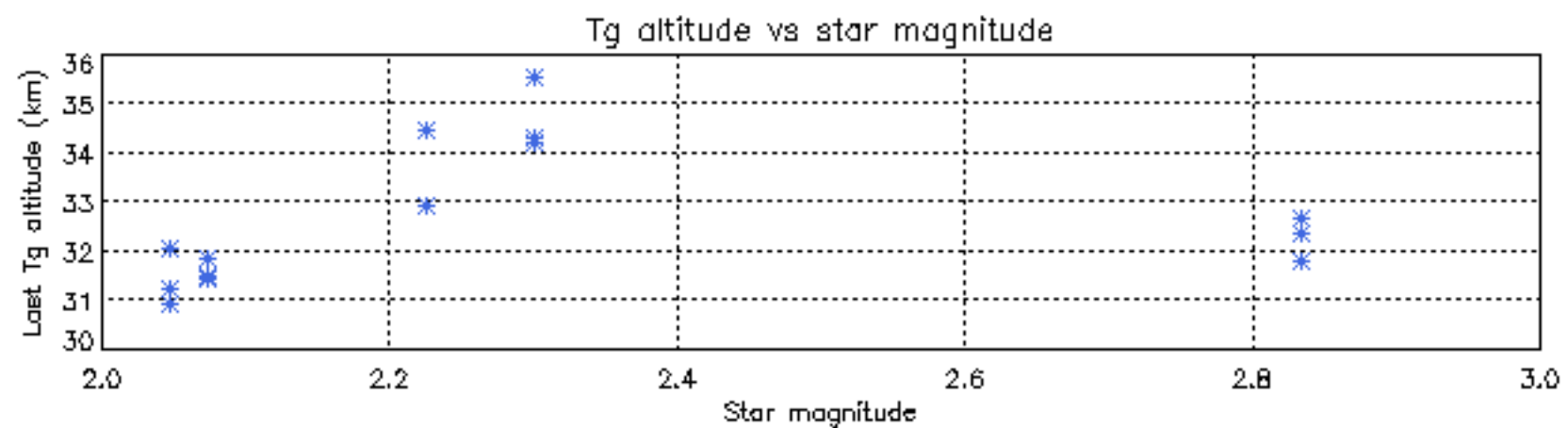
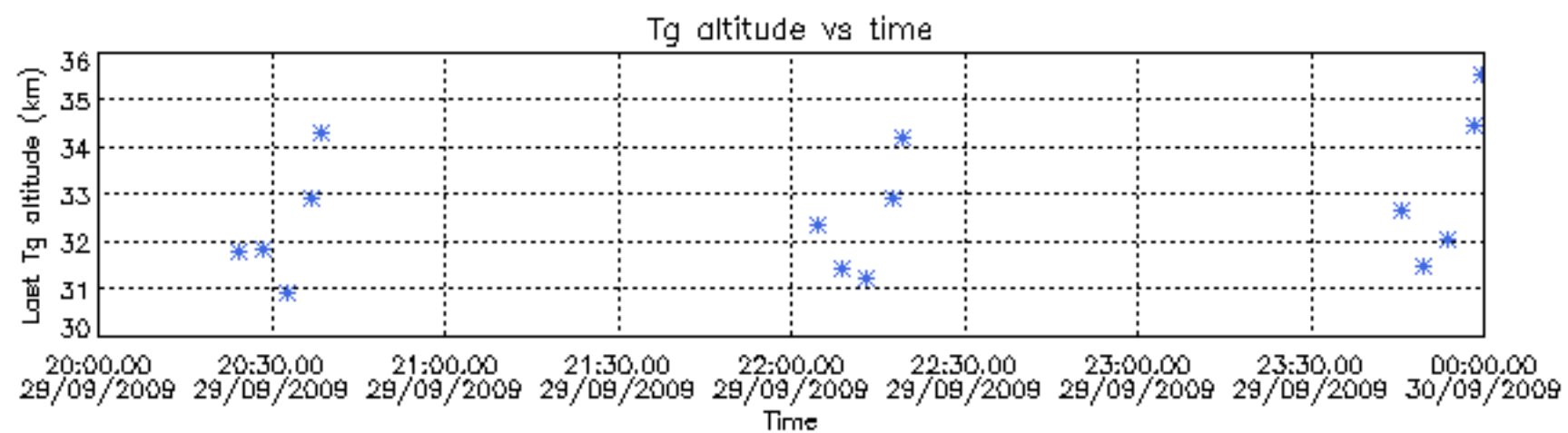
Percentage of saturation errors per profile

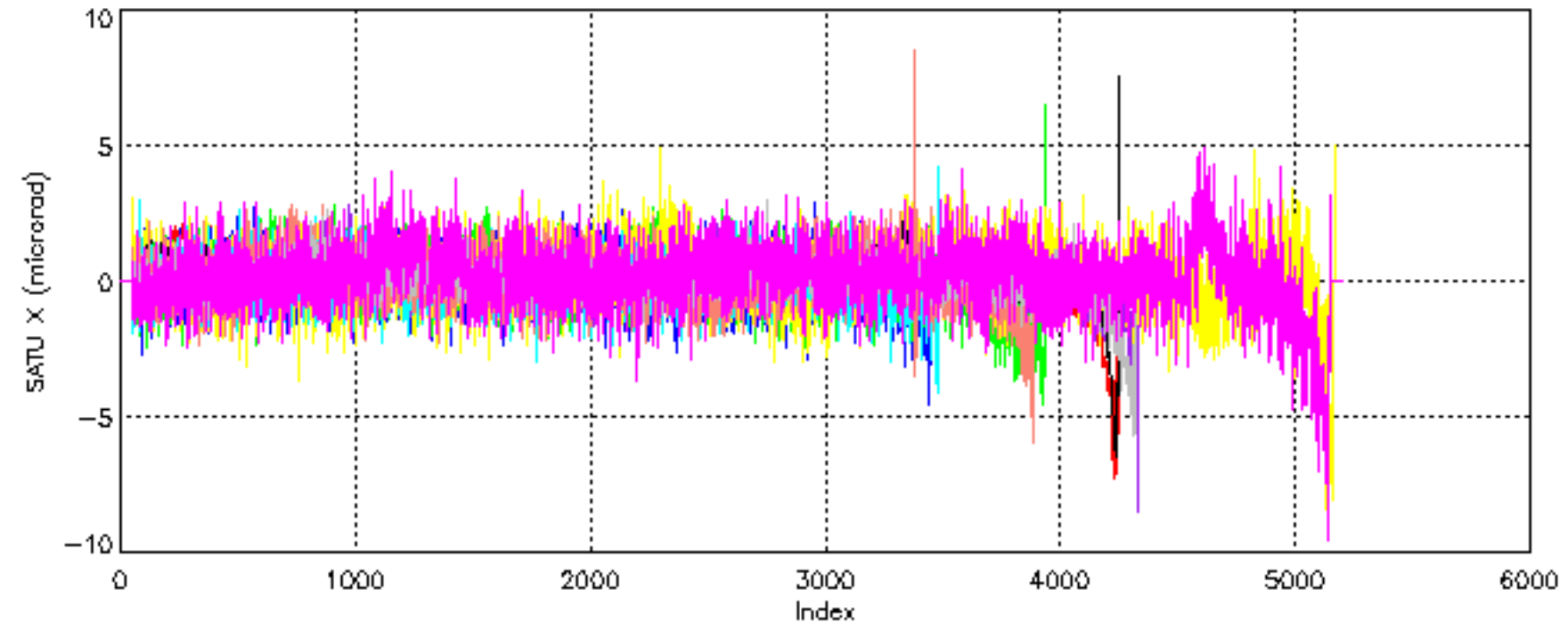


Tangent altitude at which the star is lost

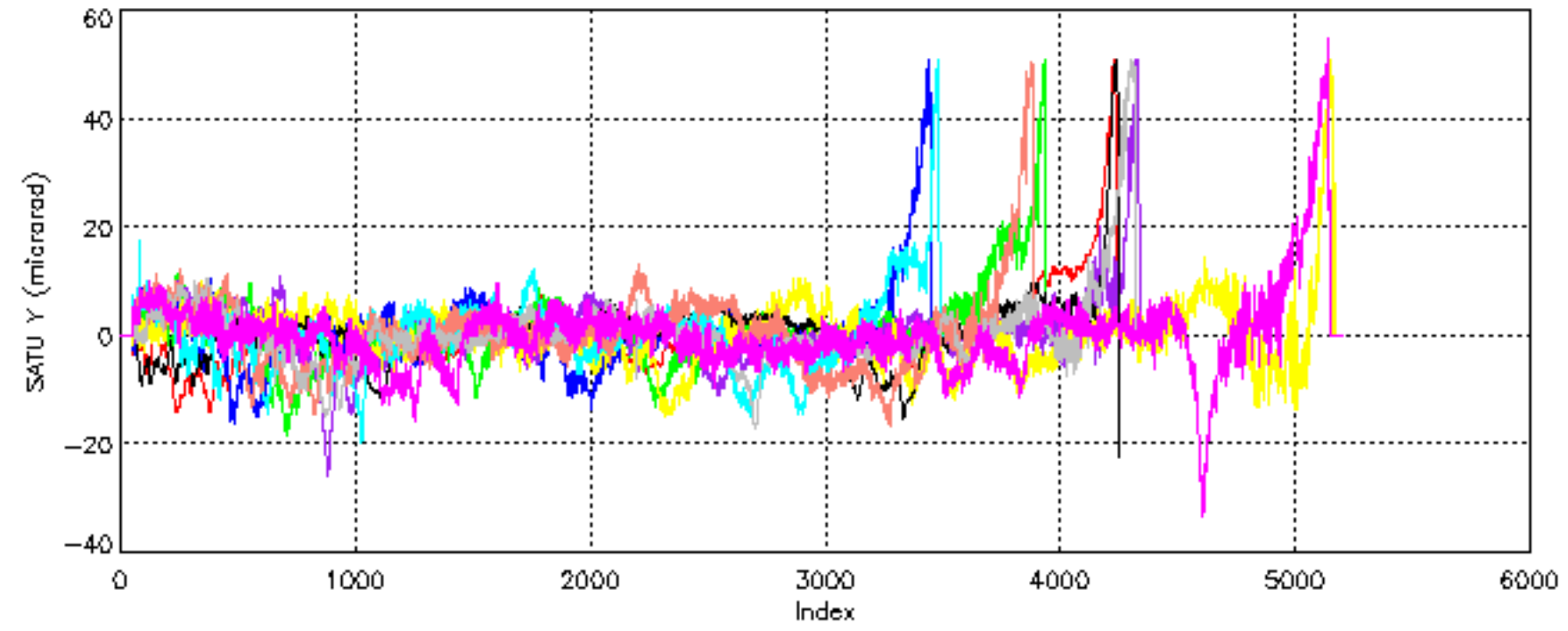


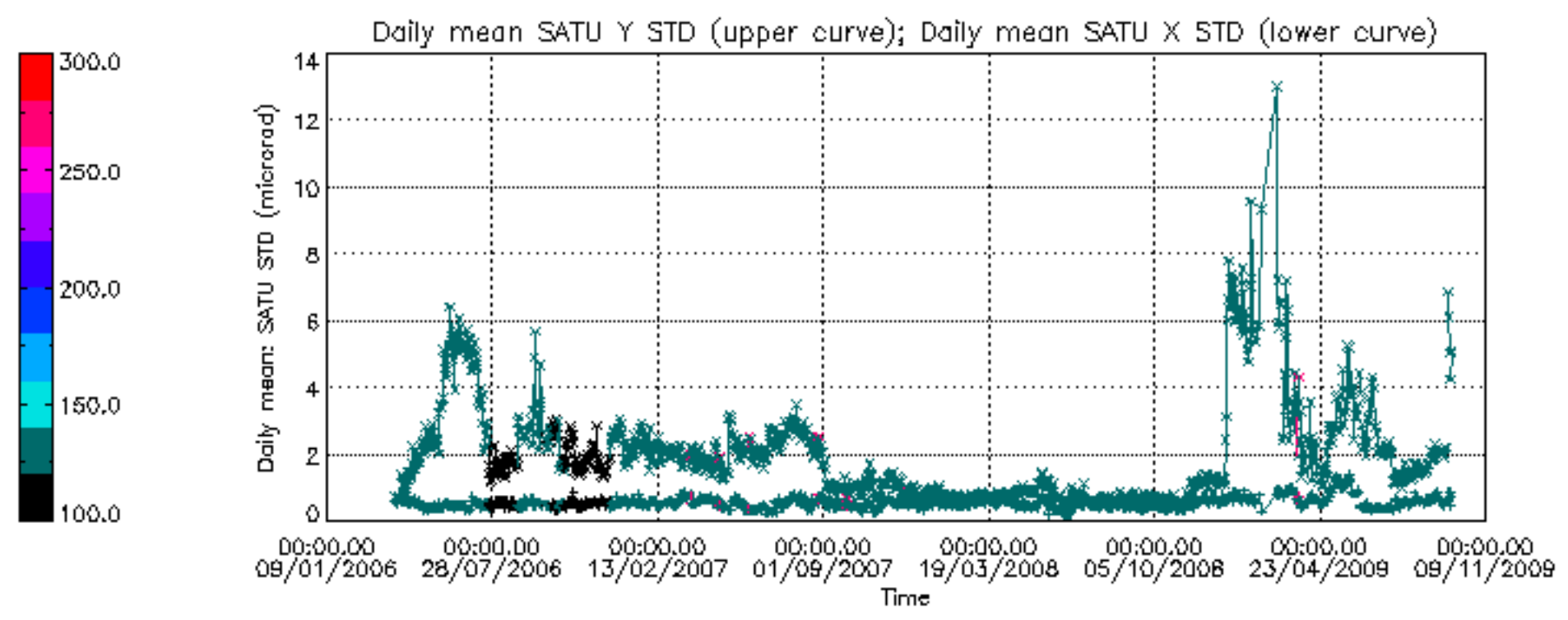
Tangent altitude at which the star is lost











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1; -717.2; 01-SEP-2009 00:48:36; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39234  
 2; -585.8; 01-SEP-2009 00:50:47; Dark ; 48.5; 47; 2Bet CMA ; 1.98; 28000;occ; 97; 0;39234  
 3; -413.8; 01-SEP-2009 00:53:39; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;39234  
 4; -237.7; 01-SEP-2009 00:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39234  
 5; 487.5; 01-SEP-2009 01:08:40; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39235  
 6; 962.2; 01-SEP-2009 01:16:35; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39235  
 7; 1329.7; 01-SEP-2009 01:22:43; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39235  
 8; 2249.9; 01-SEP-2009 01:38:03; Bright; 47.5; 90; 54Alp Peg ; 2.49; 11000;occ; 95; 0;39235  
 9; 2501.4; 01-SEP-2009 01:42:14; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39235  
 10; 3142.8; 01-SEP-2009 01:52:56; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39235  
 11; 3270.9; 01-SEP-2009 01:55:04; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39235  
 12; 4155.8; 01-SEP-2009 02:09:49; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;39235  
 13; 4378.2; 01-SEP-2009 02:13:31; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39235  
 14; 4687.0; 01-SEP-2009 02:18:40; Dark ; 64.0; 151; 13Mu Gem ; 2.89; 3000;occ; 128; 0;39235  
 15; 4792.9; 01-SEP-2009 02:20:26; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39235

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 2; -715.8; 01-SEP-2009 02:29:13; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39235  
 3; -584.8; 01-SEP-2009 02:31:24; Dark ; 49.5; 47; 2Bet CMA ; 1.98; 28000;occ; 99; 0;39235  
 4; -412.2; 01-SEP-2009 02:34:17; Dark ; 52.5; 101; 11Alp Lep ; 2.58; 7000;occ; 105; 0;39235  
 5; -236.5; 01-SEP-2009 02:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39235  
 6; 488.8; 01-SEP-2009 02:49:18; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39236  
 7; 962.7; 01-SEP-2009 02:57:12; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39236  
 8; 1330.1; 01-SEP-2009 03:03:19; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;39236  
 9; 2249.4; 01-SEP-2009 03:18:38; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39236  
 10; 2500.7; 01-SEP-2009 03:22:50; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;39236  
 11; 3142.5; 01-SEP-2009 03:33:31; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39236  
 12; 3270.4; 01-SEP-2009 03:35:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39236

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 2; -1657.5; 01-SEP-2009 03:54:07; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39236  
 3; -1348.6; 01-SEP-2009 03:59:16; Dark ; 53.5; 151; 13Mu Gem ; 2.89; 3000;occ; 107; 0;39236  
 4; -1242.9; 01-SEP-2009 04:01:02; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;39236  
 5; -965.8; 01-SEP-2009 04:05:39; Dark ; 74.0; 14; 58Alp Ori ; 0.87; 3000;occ; 148; 0;39236  
 6; -714.7; 01-SEP-2009 04:09:50; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39236  
 7; -584.2; 01-SEP-2009 04:12:01; Dark ; 49.0; 47; 2Bet CMA ; 1.98; 28000;occ; 98; 0;39236  
 8; -411.4; 01-SEP-2009 04:14:53; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;39236  
 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  
 15; 3141.8; 01-SEP-2009 05:14:07; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39237  
 16; 3269.5; 01-SEP-2009 05:16:14; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39237

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 3; -1348.2; 01-SEP-2009 05:39:53; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;39237  
 4; -1242.4; 01-SEP-2009 05:41:38; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;39237  
 5; -964.9; 01-SEP-2009 05:46:16; Dark ; 71.5; 14; 58Alp Ori ; 0.87; 3000;occ; 143; 0;39237  
 6; -713.5; 01-SEP-2009 05:50:27; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39237  
 7; -583.2; 01-SEP-2009 05:52:38; Dark ; 48.0; 47; 2Bet CMA ; 1.98; 28000;occ; 96; 0;39237  
 8; -409.9; 01-SEP-2009 05:55:31; Dark ; 58.5; 101; 11Alp Lep ; 2.58; 7000;occ; 117; 0;39237  
 9; -234.2; 01-SEP-2009 05:58:27; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39237  
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 11; 964.2; 01-SEP-2009 06:18:25; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;39238  
 12; 1330.7; 01-SEP-2009 06:24:32; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;39238  
 13; 2248.4; 01-SEP-2009 06:39:49; Bright; 46.5; 90; 54Alp Peg ; 2.49; 11000;occ; 93; 0;39238  
 14; 2499.6; 01-SEP-2009 06:44:00; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39238  
 15; 3141.0; 01-SEP-2009 06:54:42; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;39238  
 16; 3268.9; 01-SEP-2009 06:56:50; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;39238

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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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5; 3136.1; 01-SEP-2009 20:19:24; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;39246
6; 3263.2; 01-SEP-2009 20:21:32; Bright; 46.5; 76; 27Gam Cas ; 2.30; 30000;occ; 93; 0;39246
7; 4152.7; 01-SEP-2009 20:36:21; Bright; 62.5; 6; 13Alp Aur ; 0.08; 3400;occ; 125; 0;39246
8; 4378.4; 01-SEP-2009 20:40:07; Bright; 50.5; 107; 37The Aur ; 2.65; 11000;occ; 101; 0;39246
9; 4690.5; 01-SEP-2009 20:45:19; Dark ; 57.5; 151; 13Mu Gem ; 2.89; 3000;occ; 115; 0;39246
10; 4797.1; 01-SEP-2009 20:47:05; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39246
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2; -707.7; 01-SEP-2009 20:55:56; Dark ; 61.0; 33; 50Zet Ori ; 1.77; 30000;occ; 122; 0;39246
3; -576.6; 01-SEP-2009 20:58:08; Dark ; 48.0; 47; 2Bet CMA ; 1.98; 28000;occ; 96; 0;39246
4; -399.2; 01-SEP-2009 21:01:05; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;39246
5; -223.7; 01-SEP-2009 21:04:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39246
6; 502.0; 01-SEP-2009 21:16:06; Dark ; 57.0; 157; The1Eri ; 2.91; 9300;occ; 114; 0;39247
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
9; 2243.6; 01-SEP-2009 21:45:08; Bright; 48.5; 90; 54Alp Peg ; 2.49; 11000;occ; 97; 0;39247
10; 2495.3; 01-SEP-2009 21:49:19; Bright; 63.0; 164; 44Eta Peg ; 2.95; 5400;occ; 126; 0;39247
11; 3135.5; 01-SEP-2009 22:00:00; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39247
12; 3262.5; 01-SEP-2009 22:02:07; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39247
13; 4152.6; 01-SEP-2009 22:16:57; Bright; 60.5; 6; 13Alp Aur ; 0.08; 3400;occ; 121; 0;39247
14; 4378.3; 01-SEP-2009 22:20:43; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39247
15; 4690.8; 01-SEP-2009 22:25:55; Dark ; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;39247
16; 4797.5; 01-SEP-2009 22:27:42; Dark ; 52.5; 44; 24Gam Gem ; 1.93; 11000;occ; 105; 0;39247
17; 5079.4; 01-SEP-2009 22:32:24; Dark ; 65.5; 14; 58Alp Ori ; 0.87; 3000;occ; 131; 0;39247
18; 5329.2; 01-SEP-2009 22:36:33; Dark ; 23.5; 33; 50Zet Ori ; 1.77; 30000;occ; 47; 0;39247
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2; -575.8; 01-SEP-2009 22:38:44; Dark ; 49.5; 47; 2Bet CMA ; 1.98; 28000;occ; 99; 0;39247
3; -397.9; 01-SEP-2009 22:41:42; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;39247
4; -222.5; 01-SEP-2009 22:44:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39247
5; 503.3; 01-SEP-2009 22:56:43; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39248
6; 969.8; 01-SEP-2009 23:04:30; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;39248
7; 2243.0; 01-SEP-2009 23:25:43; Bright; 59.5; 90; 54Alp Peg ; 2.49; 11000;occ; 119; 0;39248
8; 2494.9; 01-SEP-2009 23:29:55; Bright; 43.5; 164; 44Eta Peg ; 2.95; 5400;occ; 87; 0;39248
9; 3134.6; 01-SEP-2009 23:40:35; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;39248
10; 3261.8; 01-SEP-2009 23:42:42; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;39248
11; 4152.0; 01-SEP-2009 23:57:32; Bright; 63.5; 6; 13Alp Aur ; 0.08; 3400;occ; 127; 0;39248
12; 4378.2; 02-SEP-2009 00:01:18; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39248
13; 4691.1; 02-SEP-2009 00:06:31; Dark ; 58.5; 151; 13Mu Gem ; 2.89; 3000;occ; 117; 0;39248
14; 4797.8; 02-SEP-2009 00:08:18; Dark ; 51.0; 44; 24Gam Gem ; 1.93; 11000;occ; 102; 0;39248
15; 5080.2; 02-SEP-2009 00:13:00; Dark ; 70.5; 14; 58Alp Ori ; 0.87; 3000;occ; 141; 0;39248
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 4; 2417.1; 14-SEP-2009 14:56:58; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;39429  
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 6; 3036.1; 14-SEP-2009 15:07:17; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39429  
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 9; 4478.9; 14-SEP-2009 15:31:20; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39429  
 10; 4668.4; 14-SEP-2009 15:34:30; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39429  
 11; 4993.3; 14-SEP-2009 15:39:55; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;39429  
 12; 5530.4; 14-SEP-2009 15:48:52; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;39429  
 13; 5667.2; 14-SEP-2009 15:51:08; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;39429  
 14; 5888.4; 14-SEP-2009 15:54:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39429  
 15; 6018.2; 14-SEP-2009 15:57:00; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39429  
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 4; 2416.7; 14-SEP-2009 16:37:34; Bright; 43.0; 93; 53Bet Peg ; 2.52; 3100;occ; 86; 0;39430  
 5; 2549.5; 14-SEP-2009 16:39:47; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39430  
 6; 3035.7; 14-SEP-2009 16:47:53; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39430  
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 9; 4479.1; 14-SEP-2009 17:11:56; Bright; 57.5; 24; 66Alp Gem ; 1.58; 10200;occ; 115; 0;39430  
 10; 4668.7; 14-SEP-2009 17:15:06; Dark ; 59.5; 170; 27Eps Gem ; 3.00; 9700;occ; 119; 0;39430  
 11; 4993.7; 14-SEP-2009 17:20:31; Dark ; 57.0; 8; 10Alp CMi ; 0.40; 6500;occ; 114; 0;39430  
 12; 5531.5; 14-SEP-2009 17:29:29; Dark ; 59.0; 1; 9Alp CMA ; -1.44; 11000;occ; 118; 0;39430  
 13; 5668.1; 14-SEP-2009 17:31:45; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;39430  
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 15; 6019.5; 14-SEP-2009 17:37:37; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;39430  
 16; 6745.9; 14-SEP-2009 17:49:43; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39430

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 3; 2280.3; 14-SEP-2009 18:15:54; Bright; 49.0; 140; 88Gam Peg ; 2.83; 26000;occ; 98; 0;39431  
 4; 2416.5; 14-SEP-2009 18:18:10; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39431  
 5; 2548.8; 14-SEP-2009 18:20:22; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39431  
 6; 3035.3; 14-SEP-2009 18:28:29; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39431  
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 8; 4170.1; 14-SEP-2009 18:47:23; Bright; 26.0; 42; 34Bet Aur ; 1.90; 10200;occ; 52; 0;39431  
 9; 4479.3; 14-SEP-2009 18:52:33; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39431  
 10; 4669.0; 14-SEP-2009 18:55:42; Dark ; 60.0; 170; 27Eps Gem ; 3.00; 9700;occ; 120; 0;39431  
 11; 4994.2; 14-SEP-2009 19:01:08; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;39431  
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 13; 5669.0; 14-SEP-2009 19:12:22; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;39431  
 14; 5890.3; 14-SEP-2009 19:16:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39431  
 15; 6020.5; 14-SEP-2009 19:18:14; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39431  
 16; 6747.1; 14-SEP-2009 19:30:20; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39431

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5; 714.0; 15-SEP-2009 00:32:11; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;39435
6; 1525.4; 15-SEP-2009 00:45:42; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39435
7; 2181.7; 15-SEP-2009 00:56:39; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;39435
8; 2277.5; 15-SEP-2009 00:58:14; Bright; 50.5; 140; 88Gam Peg ; 2.83; 26000;occ; 100; 0;39435
9; 2415.4; 15-SEP-2009 01:00:32; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;39435
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13; 4479.7; 15-SEP-2009 01:34:57; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;39435
14; 4670.2; 15-SEP-2009 01:38:07; Dark ; 63.0; 170; 27Eps Gem ; 3.00; 9700;occ; 126; 0;39435
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4; -10.3; 15-SEP-2009 02:00:42; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39435
5; 714.9; 15-SEP-2009 02:12:48; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39436
6; 1525.5; 15-SEP-2009 02:26:18; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;39436
7; 2181.6; 15-SEP-2009 02:37:14; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;39436
8; 2276.9; 15-SEP-2009 02:38:50; Bright; 49.5; 140; 88Gam Peg ; 2.83; 26000;occ; 99; 0;39436
9; 2414.9; 15-SEP-2009 02:41:08; Bright; 42.5; 93; 53Bet Peg ; 2.52; 3100;occ; 85; 0;39436
10; 2545.1; 15-SEP-2009 02:43:18; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39436
11; 3032.8; 15-SEP-2009 02:51:26; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;39436
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4; -498.4; 15-SEP-2009 03:33:10; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;39436
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6; -141.1; 15-SEP-2009 03:39:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39436
7; -9.1; 15-SEP-2009 03:41:20; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39436
8; 716.1; 15-SEP-2009 03:53:25; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39437
9; 1525.8; 15-SEP-2009 04:06:54; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39437
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13; 2544.4; 15-SEP-2009 04:23:53; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;39437
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4; -497.4; 15-SEP-2009 05:13:47; Dark ; 58.0; 1; 9Alp CMA ; -1.44; 11000;occ; 116; 0;39437
5; -362.1; 15-SEP-2009 05:16:03; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;39437
6; -140.2; 15-SEP-2009 05:19:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39437
7; -7.8; 15-SEP-2009 05:21:57; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;39437
8; 716.8; 15-SEP-2009 05:34:02; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39438
9; 1525.9; 15-SEP-2009 05:47:31; Dark ; 60.0; 52; 16Bet Cet ; 2.04; 4500;occ; 120; 0;39438
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12; 2414.5; 15-SEP-2009 06:02:19; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;39438
13; 2543.6; 15-SEP-2009 06:04:28; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;39438
14; 3032.0; 15-SEP-2009 06:12:37; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39438
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3; 2269.9; 15-SEP-2009 21:05:18; Bright; 48.0; 140; 88Gam Peg ; 2.83; 26000;occ; 96; 0;39447
4; 2412.2; 15-SEP-2009 21:07:40; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;39447
5; 2537.6; 15-SEP-2009 21:09:46; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;39447
6; 3027.7; 15-SEP-2009 21:17:56; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39447
7; 3135.7; 15-SEP-2009 21:19:44; Bright; 6.0; 76; 27Gam Cas ; 2.30; 30000;occ; 12; 0;39447
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3;-1038.2; 15-SEP-2009 06:45:22; Dark ; 50.0; 8; 10Alp CMI ; 0.40; 6500;occ; 100; 0;39438
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6;-139.3; 15-SEP-2009 07:00:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39438
7;-6.8; 15-SEP-2009 07:02:34; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39438
8; 718.3; 15-SEP-2009 07:14:39; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39439
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6; 3140.4; 15-SEP-2009 07:55:01; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39439
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6; 121.4; 22-SEP-2009 03:23:22; Dark ; 56.0; 108; Alp Col ; 2.65; 15200;occ; 112; 0;39537  
7; 811.9; 22-SEP-2009 03:34:52; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;39537  
8; 1540.0; 22-SEP-2009 03:47:00; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;39537  
9; 2224.6; 22-SEP-2009 03:58:25; Bright; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;39537  
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11; 2990.8; 22-SEP-2009 04:11:11; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39537  
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6; 122.7; 22-SEP-2009 05:03:59; Dark ; 54.0; 108; Alp Col ; 2.65; 15200;occ; 108; 0;39538
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9; 2223.9; 22-SEP-2009 05:39:00; Bright; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;39538
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3; 2480.0; 22-SEP-2009 20:48:40; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;39547
4; 2987.5; 22-SEP-2009 20:57:07; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39547
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6; 124.2; 22-SEP-2009 06:44:36; Dark ; 54.0; 108; Alp Col ; 2.65; 15200;occ; 108; 0;39539
7; 813.8; 22-SEP-2009 06:56:06; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;39539
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3; 2990.2; 22-SEP-2009 07:32:22; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39539
4; 3086.9; 22-SEP-2009 07:33:59; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39539
5; 4494.2; 22-SEP-2009 07:57:26; Bright; 59.0; 24; 66Alp Gem ; 1.58; 10200;occ; 118; 0;39539
6; 5058.4; 22-SEP-2009 08:06:51; Dark ; 69.0; 8; 10Alp CMI ; 0.40; 6500;occ; 138; 0;39539
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3; 4494.9; 22-SEP-2009 16:20:27; Bright; 48.0; 24; 66Alp Gem ; 1.58; 10200;occ; 96; 0;39544
4; 5061.8; 22-SEP-2009 16:29:53; Dark ; 61.0; 8; 10Alp CMI ; 0.40; 6500;occ; 122; 0;39544
5; 5666.6; 22-SEP-2009 16:39:58; Dark ; 60.5; 1; 9Alp CMA ; -1.44; 11000;occ; 121; 0;39544
6; 6001.1; 22-SEP-2009 16:45:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39544
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3; 2987.8; 22-SEP-2009 17:35:55; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39545
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5; 4495.1; 22-SEP-2009 18:01:03; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;39545
6; 5062.6; 22-SEP-2009 18:10:30; Dark ; 63.0; 8; 10Alp CMI ; 0.40; 6500;occ; 126; 0;39545
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9; 6169.9; 22-SEP-2009 18:28:58; Dark ; 53.5; 108; Alp Col ; 2.65; 15200;occ; 107; 0;39545
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3; 2479.9; 22-SEP-2009 19:08:04; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;39546
4; 2987.5; 22-SEP-2009 19:16:31; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39546
5; 3083.7; 22-SEP-2009 19:18:07; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39546
6; 5062.8; 22-SEP-2009 19:51:06; Dark ; 41.5; 8; 10Alp CMI ; 0.40; 6500;occ; 83; 0;39546
7; 5669.0; 22-SEP-2009 20:01:13; Dark ; 27.0; 1; 9Alp CMA ; -1.44; 11000;occ; 54; 0;39546
8; 5816.4; 22-SEP-2009 20:03:40; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;39546
9; 6003.1; 22-SEP-2009 20:06:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39546
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3; 2459.8; 25-SEP-2009 22:34:40; Bright; 34.0; 58; 21Alp And ; 2.07; 11000;occ; 68; 0;39591
4; 5097.1; 25-SEP-2009 23:18:37; Dark ; 66.5; 8; 10Alp CMI ; 0.40; 6500;occ; 133; 0;39591
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4; 4503.1; 26-SEP-2009 00:49:19; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;39592
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6; 2203.8; 26-SEP-2009 01:51:35; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;39593
7; 2458.9; 26-SEP-2009 01:55:50; Bright; 25.0; 58; 21Alp And ; 2.07; 11000;occ; 50; 0;39593
8; 2715.3; 26-SEP-2009 02:00:07; Bright; 51.5; 53; 43Bet And ; 2.05; 3300;occ; 103; 0;39593
9; 2971.2; 26-SEP-2009 02:04:23; Bright; 23.0; 74; 11Bet Cas ; 2.27; 6600;occ; 46; 0;39593
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5; 17.9; 26-SEP-2009 02:55:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39594
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5; 19.1; 26-SEP-2009 04:36:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39595
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5; 2946.9; 30-SEP-2009 18:24:05; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39660
6; 3033.2; 30-SEP-2009 18:25:31; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39660
7; 4512.4; 30-SEP-2009 18:50:11; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;39660
8; 4600.6; 30-SEP-2009 18:51:39; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39660
9; 5160.7; 30-SEP-2009 19:00:59; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;39660
10; 5584.8; 30-SEP-2009 19:08:03; Dark ; 34.5; 132; 15Rho Pup ; 2.80; 6900;occ; 69; 0;39660
11; 5800.3; 30-SEP-2009 19:11:39; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39660
12; 5904.0; 30-SEP-2009 19:13:22; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39660
13; 6129.9; 30-SEP-2009 19:17:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39660
14; 6337.0; 30-SEP-2009 19:20:35; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39660
15; 6949.1; 30-SEP-2009 19:30:47; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;39660
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1; 1556.7; 30-SEP-2009 19:41:31; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39661
2; 2186.0; 30-SEP-2009 19:52:00; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39661
3; 2435.7; 30-SEP-2009 19:56:10; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39661
4; 2661.9; 30-SEP-2009 19:59:56; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;39661
5; 2946.5; 30-SEP-2009 20:04:41; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39661

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6;	3033.0;	30-SEP-2009	20:06:07;	Bright;	34.5;	76;	27Gam Cas	;	2.30;	30000;occ;	69;	0;	39661	
7;	4512.4;	30-SEP-2009	20:30:47;	Bright;	37.0;	24;	66Alp Gem	;	1.58;	10200;occ;	74;	0;	39661	
8;	4600.7;	30-SEP-2009	20:32:15;	Bright;	36.5;	17;	78Bet Gem	;	1.16;	4500;occ;	73;	0;	39661	
9;	5161.7;	30-SEP-2009	20:41:36;	Dark	;	36.0;	8;	10Alp CMi	;	0.40;	6500;occ;	72;	0;	39661
10;	5585.2;	30-SEP-2009	20:48:39;	Dark	;	35.0;	132;	15Rho Pup	;	2.80;	6900;occ;	70;	0;	39661
11;	5801.6;	30-SEP-2009	20:52:16;	Dark	;	40.0;	88;	31Eta CMa	;	2.45;	20000;occ;	80;	0;	39661
12;	5905.4;	30-SEP-2009	20:54:00;	Dark	;	44.0;	23;	21Eps CMa	;	1.50;	26000;occ;	88;	0;	39661
13;	6131.0;	30-SEP-2009	20:57:45;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	39661
14;	6338.5;	30-SEP-2009	21:01:13;	Dark	;	52.0;	108;	Alp Col	;	2.65;	15200;occ;	104;	0;	39661
15;	6949.6;	30-SEP-2009	21:11:24;	Dark	;	40.0;	157;	The1Eri	;	2.91;	9300;occ;	80;	0;	39661