

# GOMOS Daily Report 19-JUL-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	23JUL2009 04:42:24
Data source version	GOMOS/5.00
Start time of products	19JUL2009 00:03:07
Stop time of products	19JUL2009 06:45:28
Store outputs in DB	Yes
Nb of level 1b prods	64
Nb of prods with errors	0

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

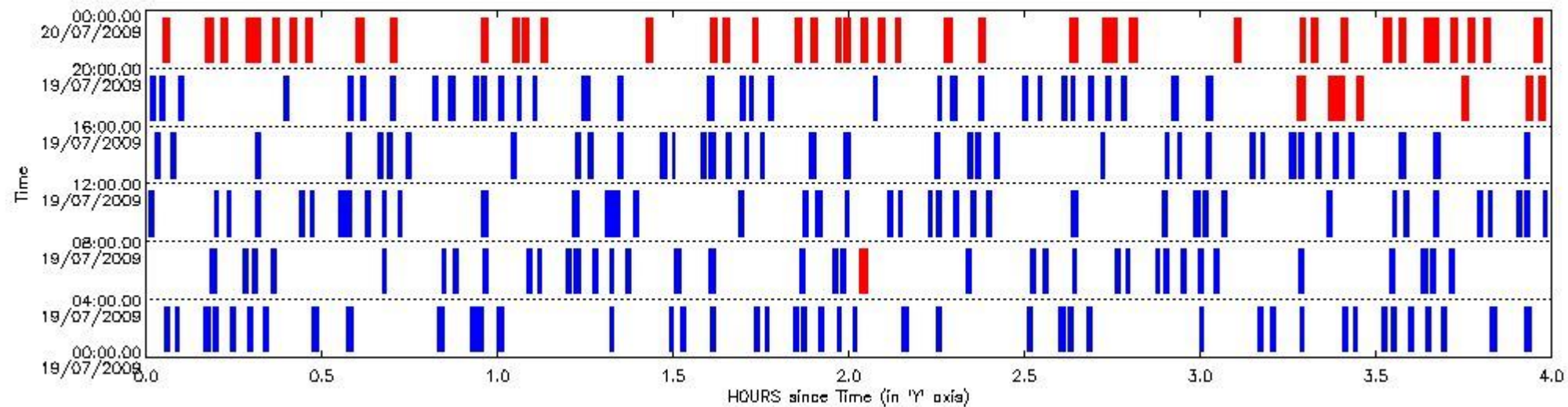
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
19-JUL-2009 06:01:50	GamGru	172	38608
19-JUL-2009 19:16:31	AlpPhe	84	38616
19-JUL-2009 19:21:59	BetGru	63	38616
19-JUL-2009 19:23:29	AlpGru	31	38616
19-JUL-2009 19:26:42	GamGru	172	38616
19-JUL-2009 19:44:41	53AlpAql	11	38616
19-JUL-2009 19:55:44	18DelCyg	144	38616
19-JUL-2009 19:57:47	50AlpCyg	19	38616
19-JUL-2009 20:02:50	5AlpCep	89	38616
19-JUL-2009 20:10:09	11BetCas	74	38616
19-JUL-2009 20:12:45	37DelCas	110	38616
19-JUL-2009 20:17:03	23GamPer	160	38616
19-JUL-2009 20:18:28	33AlpPer	35	38616
19-JUL-2009 20:21:28	26BetPer	79	38616
19-JUL-2009 20:24:31	44ZetPer	150	38616

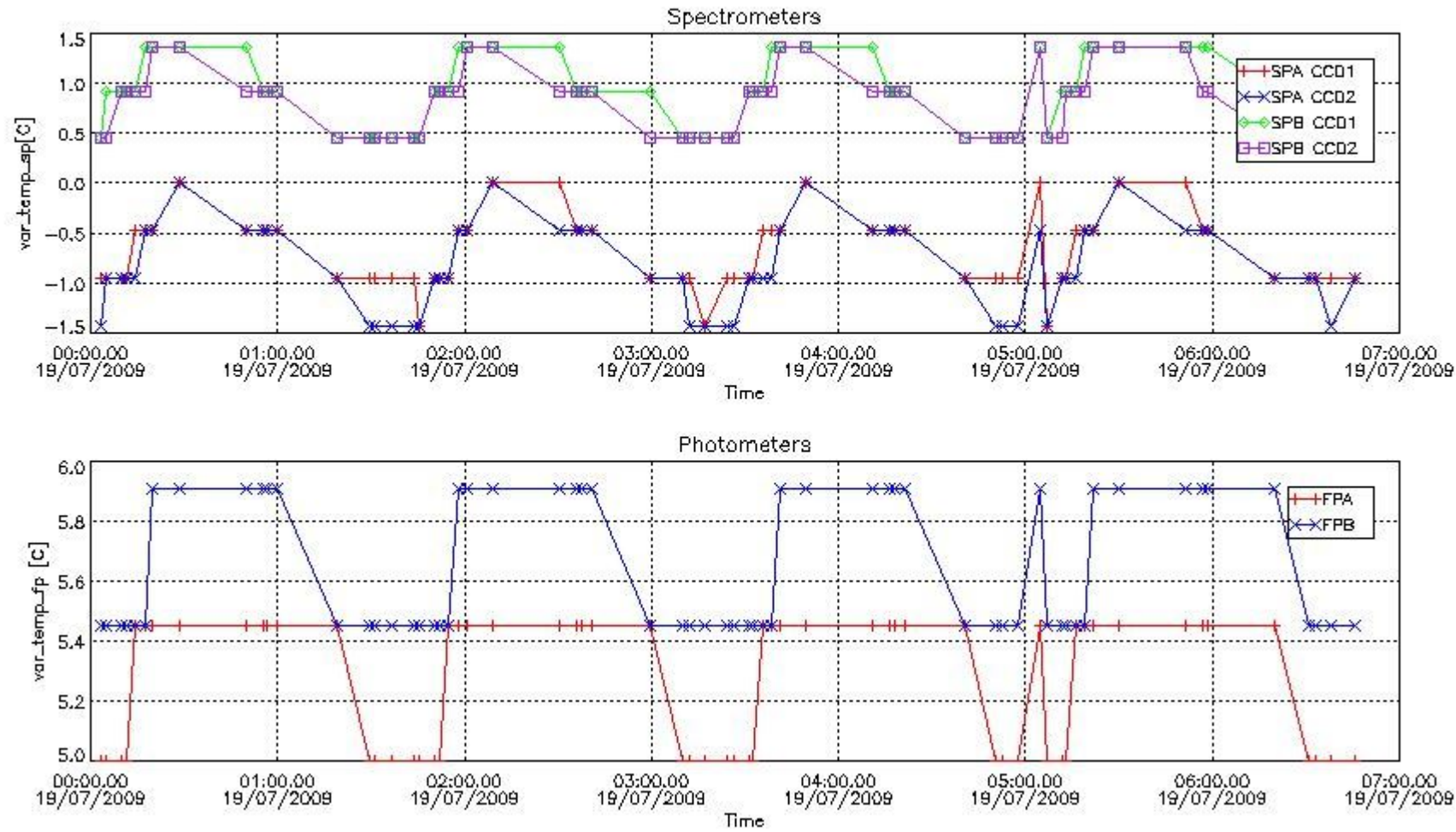
19-JUL-2009 20:27:12	25EtaTau	146	38616
19-JUL-2009 20:35:41	92AlpCet	94	38616
19-JUL-2009 20:41:38	DSA1064	0	38616
19-JUL-2009 20:57:08	AlpPhe	84	38617
19-JUL-2009 21:02:36	BetGru	63	38617
19-JUL-2009 21:04:06	AlpGru	31	38617
19-JUL-2009 21:07:19	GamGru	172	38617
19-JUL-2009 21:25:17	53AlpAql	11	38617
19-JUL-2009 21:36:19	18DelCyg	144	38617
19-JUL-2009 21:38:22	50AlpCyg	19	38617
19-JUL-2009 21:43:26	5AlpCep	89	38617
19-JUL-2009 21:50:44	11BetCas	74	38617
19-JUL-2009 21:53:21	37DelCas	110	38617
19-JUL-2009 21:57:38	23GamPer	160	38617
19-JUL-2009 21:59:03	33AlpPer	35	38617
19-JUL-2009 22:02:04	26BetPer	79	38617
19-JUL-2009 22:05:07	44ZetPer	150	38617
19-JUL-2009 22:07:48	25EtaTau	146	38617
19-JUL-2009 22:16:18	92AlpCet	94	38617
19-JUL-2009 22:22:15	DSA1064	0	38617
19-JUL-2009 22:37:45	AlpPhe	84	38618
19-JUL-2009 22:43:13	BetGru	63	38618
19-JUL-2009 22:44:42	AlpGru	31	38618
19-JUL-2009 22:47:56	GamGru	172	38618
19-JUL-2009 23:05:53	53AlpAql	11	38618
19-JUL-2009 23:16:55	18DelCyg	144	38618
19-JUL-2009 23:18:57	50AlpCyg	19	38618
19-JUL-2009 23:24:01	5AlpCep	89	38618
19-JUL-2009 23:31:19	11BetCas	74	38618
19-JUL-2009 23:33:56	37DelCas	110	38618
19-JUL-2009 23:38:14	23GamPer	160	38618
19-JUL-2009 23:39:39	33AlpPer	35	38618
19-JUL-2009 23:42:40	26BetPer	79	38618
19-JUL-2009 23:45:43	44ZetPer	150	38618
19-JUL-2009 23:48:24	25EtaTau	146	38618
19-JUL-2009 23:56:55	92AlpCet	94	38618

#### 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_1PNPDE20090719_000307_000000522080_00474_38604_3492.N1	19-JUL-2009 00:03:07	Bright	51.500	74	11Bet Cas	2.2680	6600.0	103	38604	No
2	GOM_TRA_1PNPDE20090719_000504_000000322080_00474_38604_3493.N1	19-JUL-2009 00:05:04	Twilight	32.000	68	18Alp Cas	2.2250	4500.0	64	38604	No
3	GOM_TRA_1PNPDE20090719_000954_000000622080_00474_38604_3494.N1	19-JUL-2009 00:09:54	Bright	62.000	160	23Gam Per	2.9300	4700.0	124	38604	No
4	GOM_TRA_1PNPDE20090719_001118_000000562080_00474_38604_3495.N1	19-JUL-2009 00:11:18	Bright	55.500	35	33Alp Per	1.7950	6250.0	111	38604	No
5	GOM_TRA_1PNPDE20090719_001418_000000482080_00474_38604_3496.N1	19-JUL-2009 00:14:18	Bright	47.500	79	26Bet Per	2.3100	13100.	95	38604	No
6	GOM_TRA_1PNPDE20090719_001719_000000452080_00474_38604_3497.N1	19-JUL-2009 00:17:19	Twilight	45.000	150	44Zet Per	2.8900	28000.	90	38604	No
7	GOM_TRA_1PNPDE20090719_001958_000000452080_00474_38604_3498.N1	19-JUL-2009 00:19:58	Twilight	44.500	146	25Eta Tau	2.8730	15200.	89	38604	No
8	GOM_TRA_1PNPDE20090719_002820_000000612080_00474_38604_3499.N1	19-JUL-2009 00:28:20	Dark	61.000	94	92Alp Cet	2.5260	3100.0	122	38604	No
9	GOM_TRA_1PNPDE20090719_004943_000000602080_00475_38605_3638.N1	19-JUL-2009 00:49:43	Dark	60.000	84	Alp Phe	2.3970	4500.0	120	38605	No
10	GOM_TRA_1PNPDE20090719_005516_000000642080_00475_38605_3639.N1	19-JUL-2009 00:55:16	Straylight	64.000	63	Bet Gru	2.1500	2800.0	128	38605	No
11	GOM_TRA_1PNPDE20090719_005647_000000472080_00475_38605_3640.N1	19-JUL-2009 00:56:47	Straylight	47.000	31	Alp Gru	1.7340	15200.	94	38605	No
12	GOM_TRA_1PNPDE20090719_010001_000000522080_00475_38605_3641.N1	19-JUL-2009 01:00:01	Straylight	51.500	172	Gam Gru	3.0030	13100.	103	38605	No
13	GOM_TRA_1PNPDE20090719_011911_000000402080_00475_38605_3642.N1	19-JUL-2009 01:19:11	Bright	39.500	168	17Zet Aql	2.9860	11000.	79	38605	No
14	GOM_TRA_1PNPDE20090719_012914_000000422080_00475_38605_3643.N1	19-JUL-2009 01:29:14	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	38605	No
15	GOM_TRA_1PNPDE20090719_013120_000000462080_00475_38605_3644.N1	19-JUL-2009 01:31:20	Bright	46.000	19	50Alp Cyg	1.2460	10500.	92	38605	No
16	GOM_TRA_1PNPDE20090719_013622_000000442080_00475_38605_3645.N1	19-JUL-2009 01:36:22	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38605	No
17	GOM_TRA_1PNPDE20090719_014342_000000542080_00475_38605_3646.N1	19-JUL-2009 01:43:42	Bright	53.500	74	11Bet Cas	2.2680	6600.0	107	38605	No
18	GOM_TRA_1PNPDE20090719_014540_000000322080_00475_38605_3647.N1	19-JUL-2009 01:45:40	Twilight	32.000	68	18Alp Cas	2.2250	4500.0	64	38605	No

19	GOM_TRA_1PNPDE20090719_015030_000000432080_00475_38605_3648.N1	19-JUL-2009 01:50:30	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	38605	No
20	GOM_TRA_1PNPDE20090719_015154_000000412080_00475_38605_3649.N1	19-JUL-2009 01:51:54	Bright	41.000	35	33Alp Per	1.7950	6250.0	82	38605	No
21	GOM_TRA_1PNPDE20090719_015454_000000472080_00475_38605_3650.N1	19-JUL-2009 01:54:54	Bright	47.000	79	26Bet Per	2.3100	13100.	94	38605	No
22	GOM_TRA_1PNPDE20090719_015755_000000452080_00475_38605_3651.N1	19-JUL-2009 01:57:55	Twilight	44.500	150	44Zet Per	2.8900	28000.	89	38605	No
23	GOM_TRA_1PNPDE20090719_020035_000000462080_00475_38605_3652.N1	19-JUL-2009 02:00:35	Twilight	46.000	146	25Eta Tau	2.8730	15200.	92	38605	No
24	GOM_TRA_1PNPDE20090719_020856_000000692080_00475_38605_3777.N1	19-JUL-2009 02:08:56	Dark	68.500	94	92Alp Cet	2.5260	3100.0	137	38605	No
25	GOM_TRA_1PNPDE20090719_023020_000000552080_00476_38606_3778.N1	19-JUL-2009 02:30:20	Dark	54.500	84	Alp Phe	2.3970	4500.0	109	38606	No
26	GOM_TRA_1PNPDE20090719_023553_000000552080_00476_38606_3779.N1	19-JUL-2009 02:35:53	Straylight	54.500	63	Bet Gru	2.1500	2800.0	109	38606	No
27	GOM_TRA_1PNPDE20090719_023724_000000502080_00476_38606_3780.N1	19-JUL-2009 02:37:24	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	38606	No
28	GOM_TRA_1PNPDE20090719_024037_000000522080_00476_38606_3781.N1	19-JUL-2009 02:40:37	Straylight	51.500	172	Gam Gru	3.0030	13100.	103	38606	No
29	GOM_TRA_1PNPDE20090719_025946_000000402080_00476_38606_3782.N1	19-JUL-2009 02:59:46	Bright	40.000	168	17Zet Aql	2.9860	11000.	80	38606	No
30	GOM_TRA_1PNPDE20090719_030950_000000402080_00476_38606_3783.N1	19-JUL-2009 03:09:50	Bright	40.000	144	18Del Cyg	2.8600	11000.	80	38606	No
31	GOM_TRA_1PNPDE20090719_031155_000000492080_00476_38606_3784.N1	19-JUL-2009 03:11:55	Bright	48.500	19	50Alp Cyg	1.2460	10500.	97	38606	No
32	GOM_TRA_1PNPDE20090719_031657_000000442080_00476_38606_3785.N1	19-JUL-2009 03:16:57	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38606	No
33	GOM_TRA_1PNPDE20090719_032417_000000502080_00476_38606_3786.N1	19-JUL-2009 03:24:17	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38606	No
34	GOM_TRA_1PNPDE20090719_032615_000000312080_00476_38606_3787.N1	19-JUL-2009 03:26:15	Twilight	30.500	68	18Alp Cas	2.2250	4500.0	61	38606	No
35	GOM_TRA_1PNPDE20090719_033106_000000432080_00476_38606_3932.N1	19-JUL-2009 03:31:06	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	38606	No
36	GOM_TRA_1PNPDE20090719_033230_000000462080_00476_38606_3933.N1	19-JUL-2009 03:32:30	Bright	46.000	35	33Alp Per	1.7950	6250.0	92	38606	No
37	GOM_TRA_1PNPDE20090719_033530_000000492080_00476_38606_3934.N1	19-JUL-2009 03:35:30	Bright	49.000	79	26Bet Per	2.3100	13100.	98	38606	No
38	GOM_TRA_1PNPDE20090719_033831_000000442080_00476_38606_3935.N1	19-JUL-2009 03:38:31	Twilight	43.500	150	44Zet Per	2.8900	28000.	87	38606	No
39	GOM_TRA_1PNPDE20090719_034111_000000452080_00476_38606_3936.N1	19-JUL-2009 03:41:11	Twilight	44.500	146	25Eta Tau	2.8730	15200.	89	38606	No
40	GOM_TRA_1PNPDE20090719_034933_000000642080_00476_38606_3937.N1	19-JUL-2009 03:49:33	Dark	63.500	94	92Alp Cet	2.5260	3100.0	127	38606	No
41	GOM_TRA_1PNPDE20090719_041058_000000552080_00477_38607_3938.N1	19-JUL-2009 04:10:58	Dark	54.500	84	Alp Phe	2.3970	4500.0	109	38607	No
42	GOM_TRA_1PNPDE20090719_041630_000000542080_00477_38607_3939.N1	19-JUL-2009 04:16:30	Straylight	53.500	63	Bet Gru	2.1500	2800.0	107	38607	No
43	GOM_TRA_1PNPDE20090719_041800_000000482080_00477_38607_3940.N1	19-JUL-2009 04:18:00	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	38607	No
44	GOM_TRA_1PNPDE20090719_042114_000000512080_00477_38607_3941.N1	19-JUL-2009 04:21:14	Straylight	50.500	172	Gam Gru	3.0030	13100.	101	38607	No
45	GOM_TRA_1PNPDE20090719_044026_000000352080_00477_38607_3942.N1	19-JUL-2009 04:40:26	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	38607	No
46	GOM_TRA_1PNPDE20090719_045025_000000412080_00477_38607_3943.N1	19-JUL-2009 04:50:25	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	38607	No
47	GOM_TRA_1PNPDE20090719_045231_000000472080_00477_38607_3944.N1	19-JUL-2009 04:52:31	Bright	46.500	19	50Alp Cyg	1.2460	10500.	93	38607	No
48	GOM_TRA_1PNPDE20090719_045733_000000442080_00477_38607_3945.N1	19-JUL-2009 04:57:33	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38607	No
49	GOM_TRA_1PNPDE20090719_050453_000000502080_00477_38607_4107.N1	19-JUL-2009 05:04:53	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38607	No
50	GOM_TRA_1PNPDE20090719_050650_000000312080_00477_38607_4108.N1	19-JUL-2009 05:06:50	Twilight	31.000	68	18Alp Cas	2.2250	4500.0	62	38607	No
51	GOM_TRA_1PNPDE20090719_051142_000000402080_00477_38607_4109.N1	19-JUL-2009 05:11:42	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	38607	No
52	GOM_TRA_1PNPDE20090719_051306_000000542080_00477_38607_4110.N1	19-JUL-2009 05:13:06	Bright	54.000	35	33Alp Per	1.7950	6250.0	108	38607	No
53	GOM_TRA_1PNPDE20090719_051606_000000492080_00477_38607_4111.N1	19-JUL-2009 05:16:06	Bright	49.000	79	26Bet Per	2.3100	13100.	98	38607	No
54	GOM_TRA_1PNPDE20090719_051907_000000422080_00477_38607_4112.N1	19-JUL-2009 05:19:07	Twilight	41.500	150	44Zet Per	2.8900	28000.	83	38607	No
55	GOM_TRA_1PNPDE20090719_052147_000000462080_00477_38607_4113.N1	19-JUL-2009 05:21:47	Twilight	45.500	146	25Eta Tau	2.8730	15200.	91	38607	No
56	GOM_TRA_1PNPDE20090719_053010_000000632080_00477_38607_4114.N1	19-JUL-2009 05:30:10	Dark	63.000	94	92Alp Cet	2.5260	3100.0	126	38607	No
57	GOM_TRA_1PNPDE20090719_055135_000000572080_00478_38608_4115.N1	19-JUL-2009 05:51:35	Dark	56.500	84	Alp Phe	2.3970	4500.0	113	38608	No
58	GOM_TRA_1PNPDE20090719_055706_000000492080_00478_38608_4116.N1	19-JUL-2009 05:57:06	Straylight	48.500	63	Bet Gru	2.1500	2800.0	97	38608	No
59	GOM_TRA_1PNPDE20090719_055837_000000472080_00478_38608_4117.N1	19-JUL-2009 05:58:37	Straylight	46.500	31	Alp Gru	1.7340	15200.	93	38608	No
60	GOM_TRA_1PNPDE20090719_061957_000000452080_00478_38608_4118.N1	19-JUL-2009 06:19:57	Bright	45.000	11	53Alp Aql	0.76500	8000.0	90	38608	No
61	GOM_TRA_1PNPDE20090719_063101_000000422080_00478_38608_4119.N1	19-JUL-2009 06:31:01	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	38608	No
62	GOM_TRA_1PNPDE20090719_063306_000000492080_00478_38608_4120.N1	19-JUL-2009 06:33:06	Bright	48.500	19	50Alp Cyg	1.2460	10500.	97	38608	No
63	GOM_TRA_1PNPDE20090719_063808_000000422080_00478_38608_4121.N1	19-JUL-2009 06:38:08	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38608	No
64	GOM_TRA_1PNPDE20090719_064528_000000502080_00478_38608_4122.N1	19-JUL-2009 06:45:28	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38608	No

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



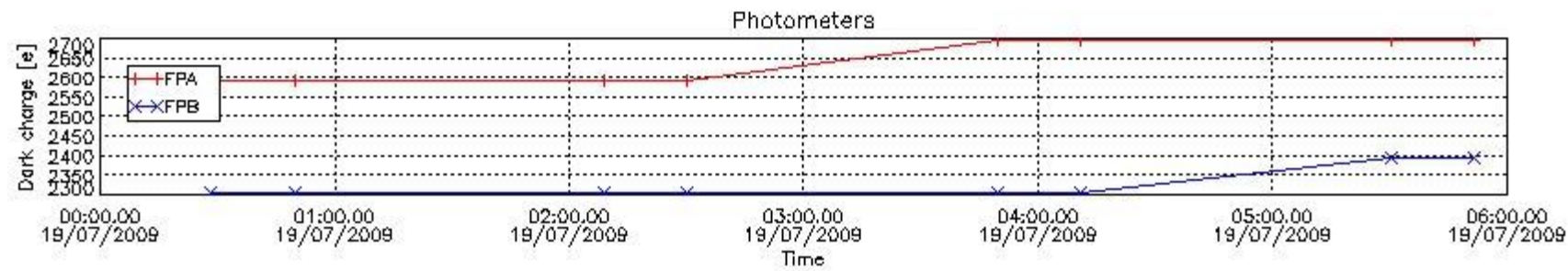
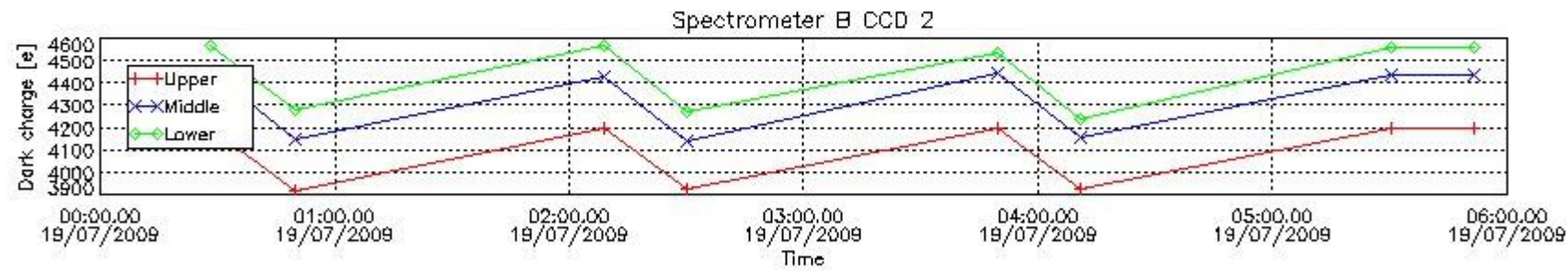
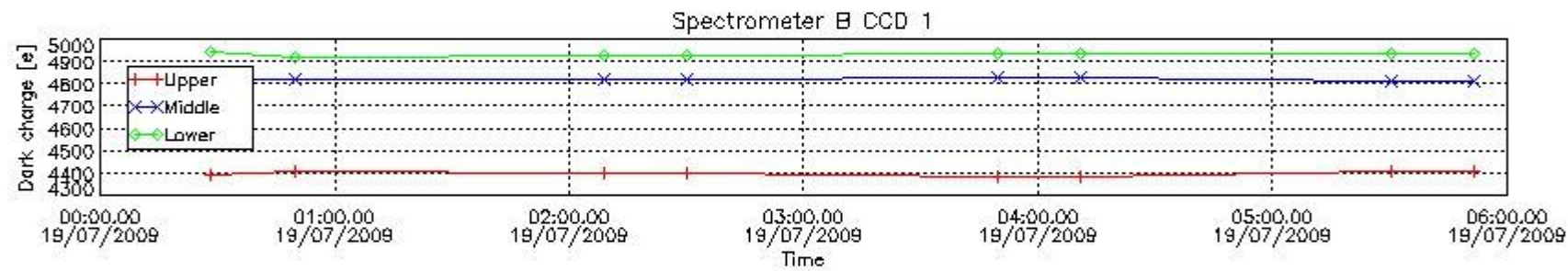
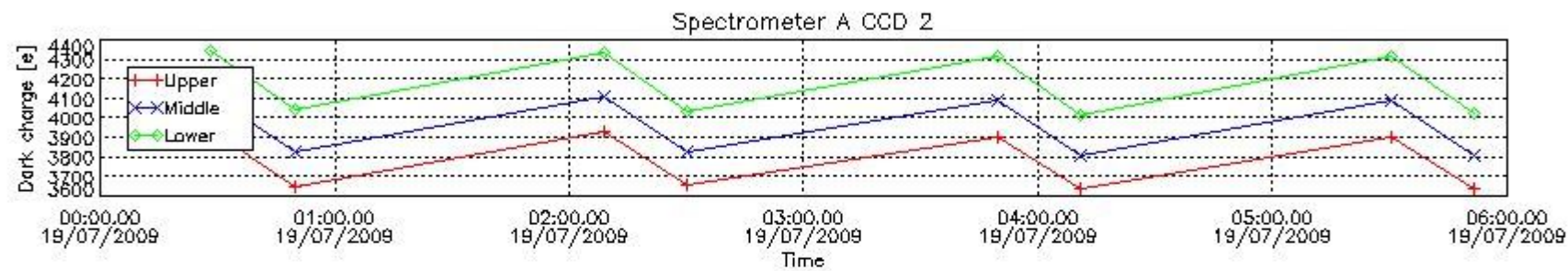
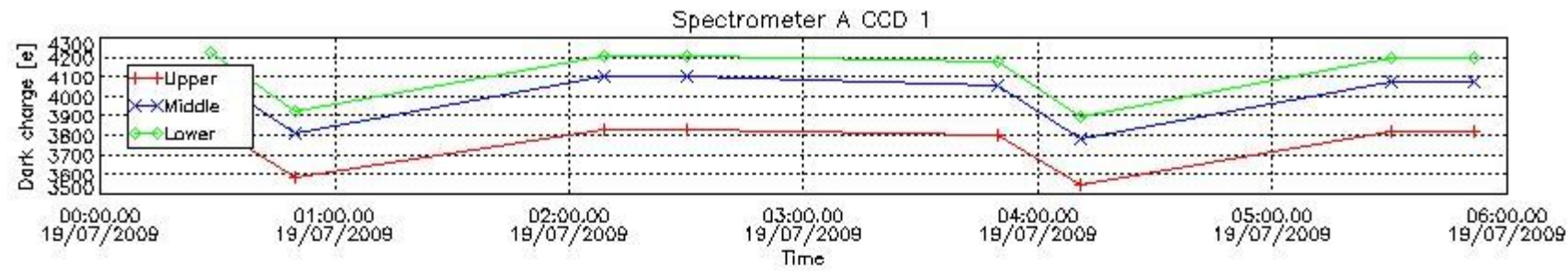
#### 4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



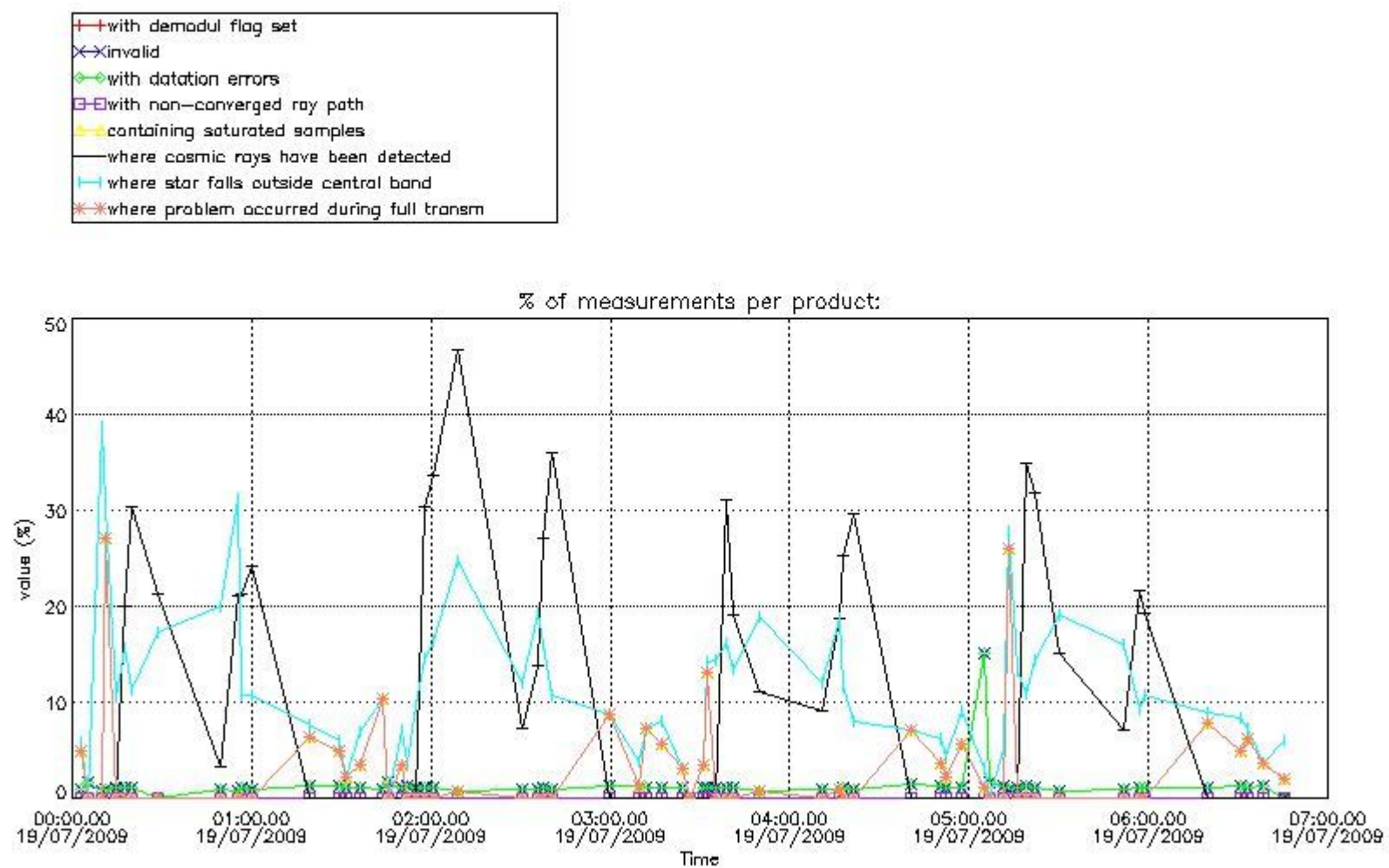
## 5. Demodulation flag and quality information monitoring

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.

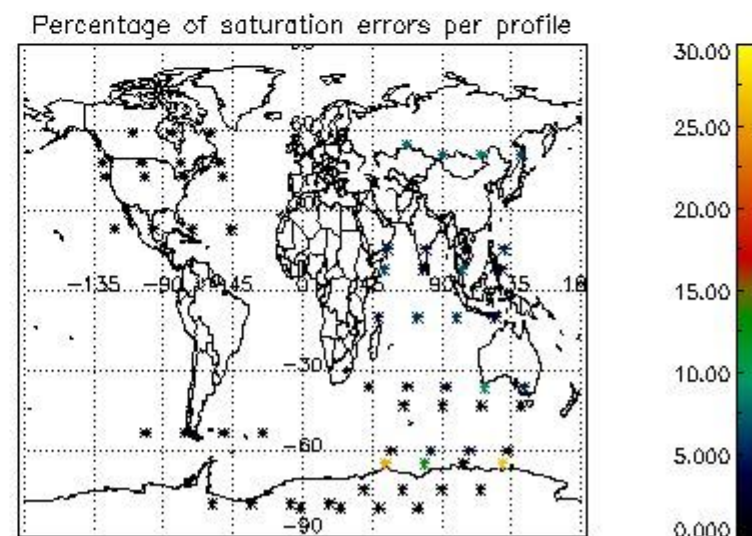
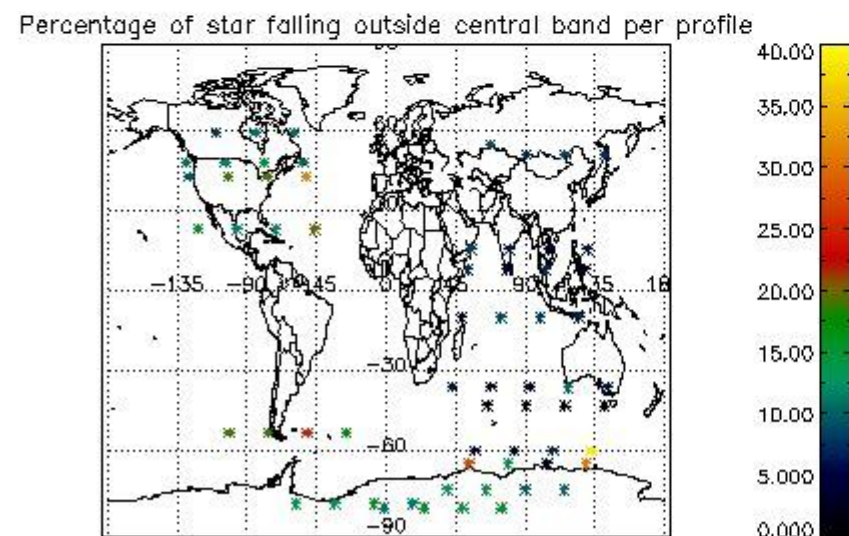
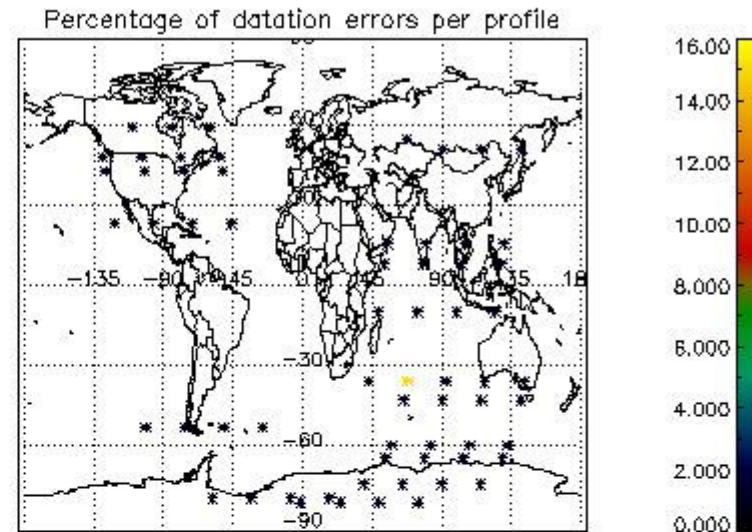
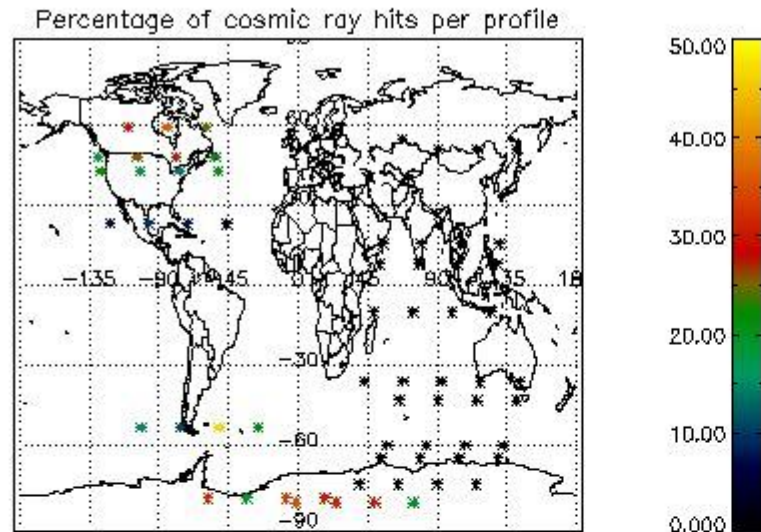
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.5625 %
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)

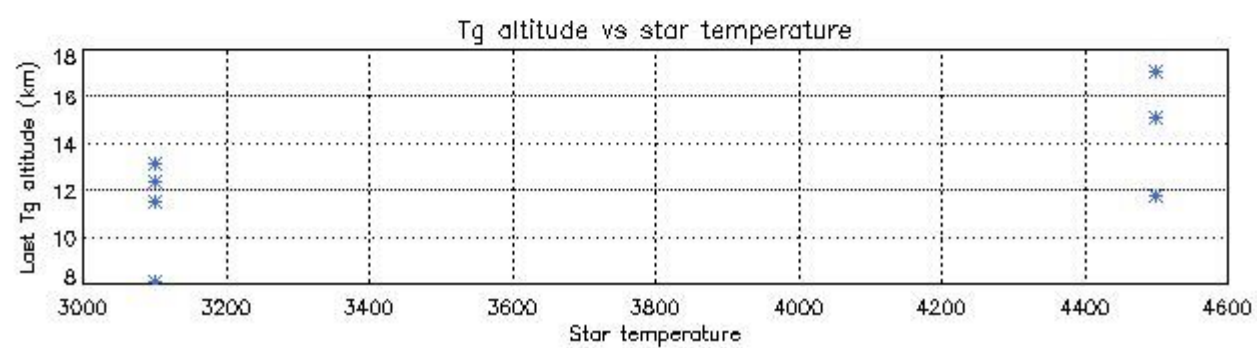
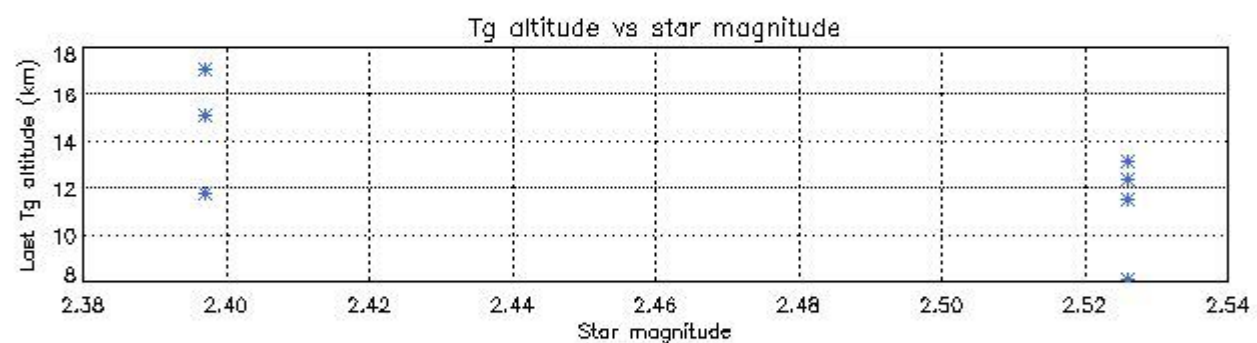
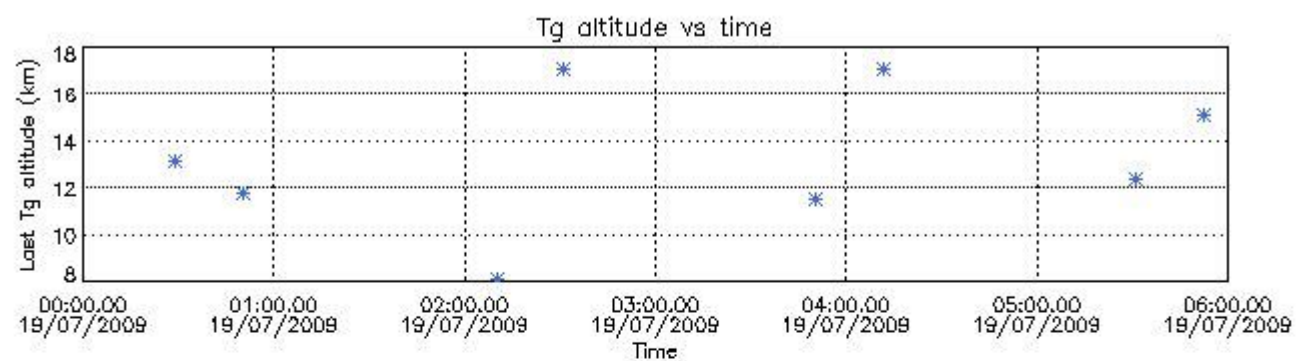
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.261	19.222	17.250
St. deviation:	3.0460	4.4798	1.0919
Maximum:	17.083	25.738	18.280
Minimum:	8.1119	4.1540	15.997
Number of data:	8.0000	33.000	4.0000

### 6.2 Plot for DARK limb products

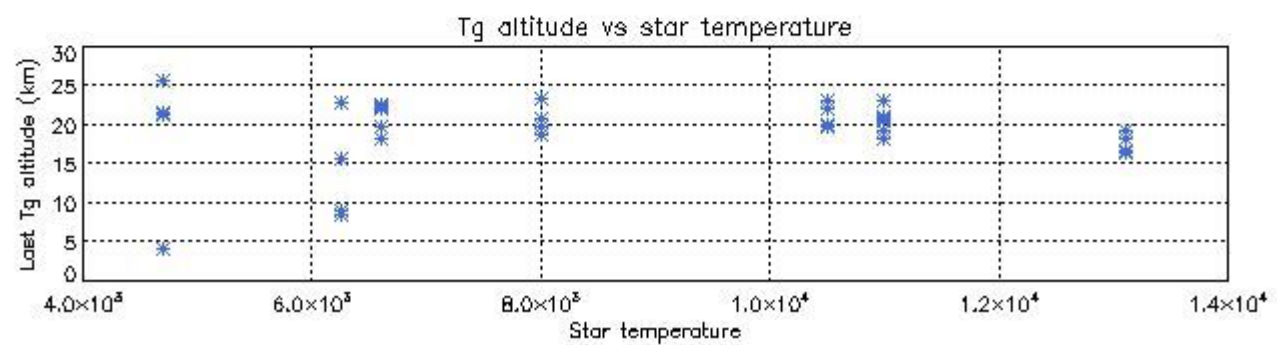
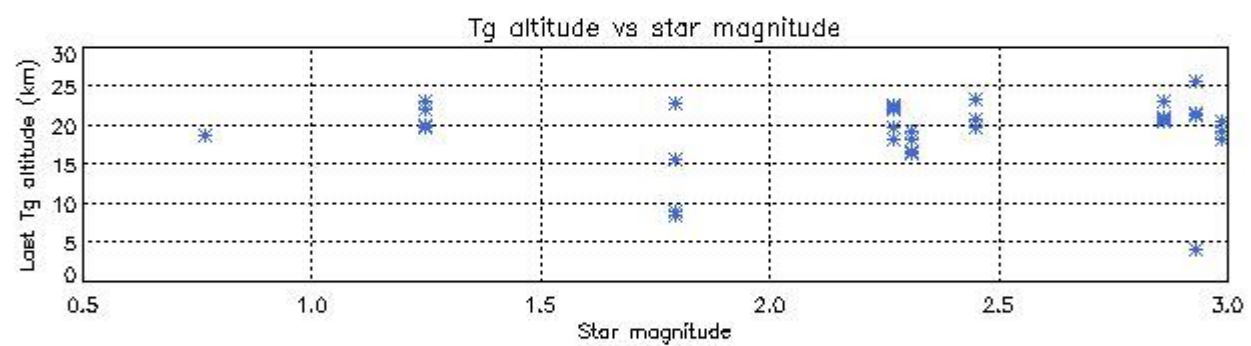
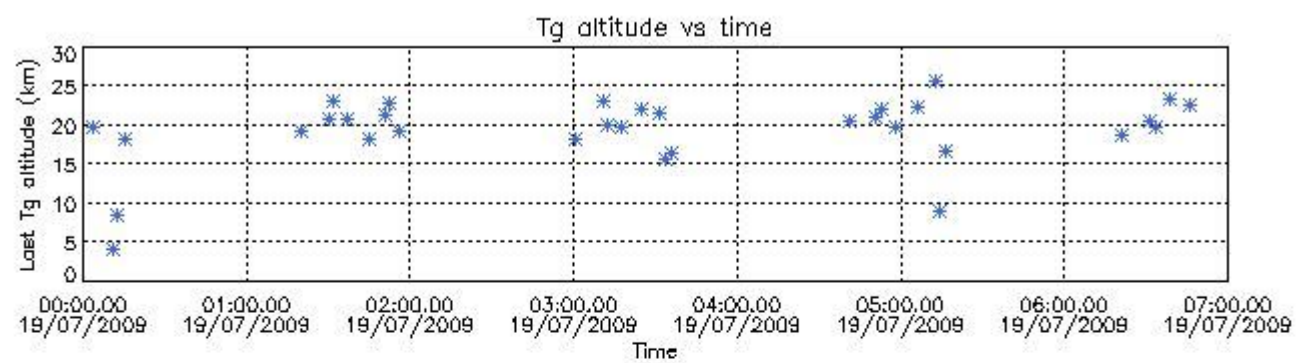


Tangent altitude at which the star is lost



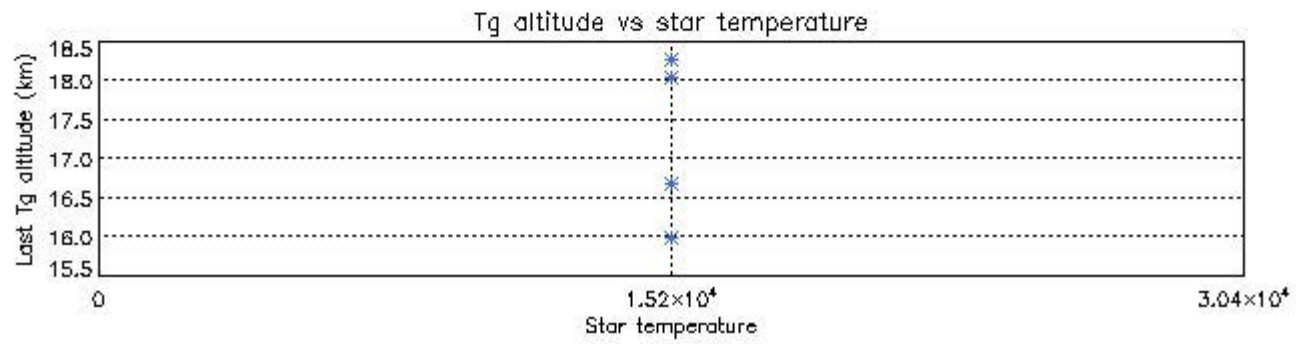
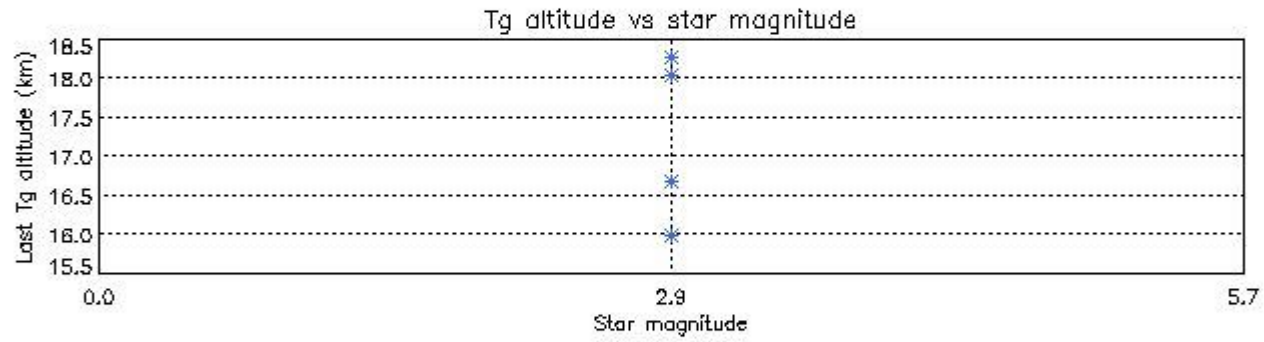
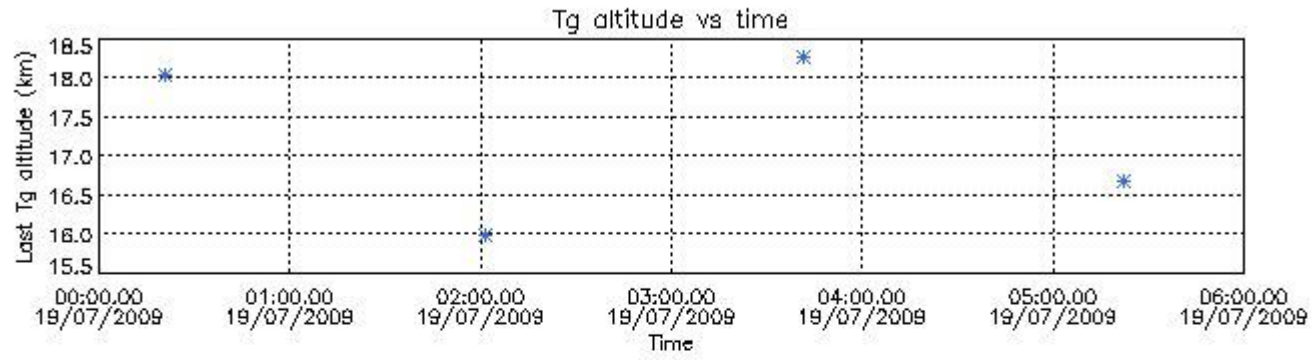
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

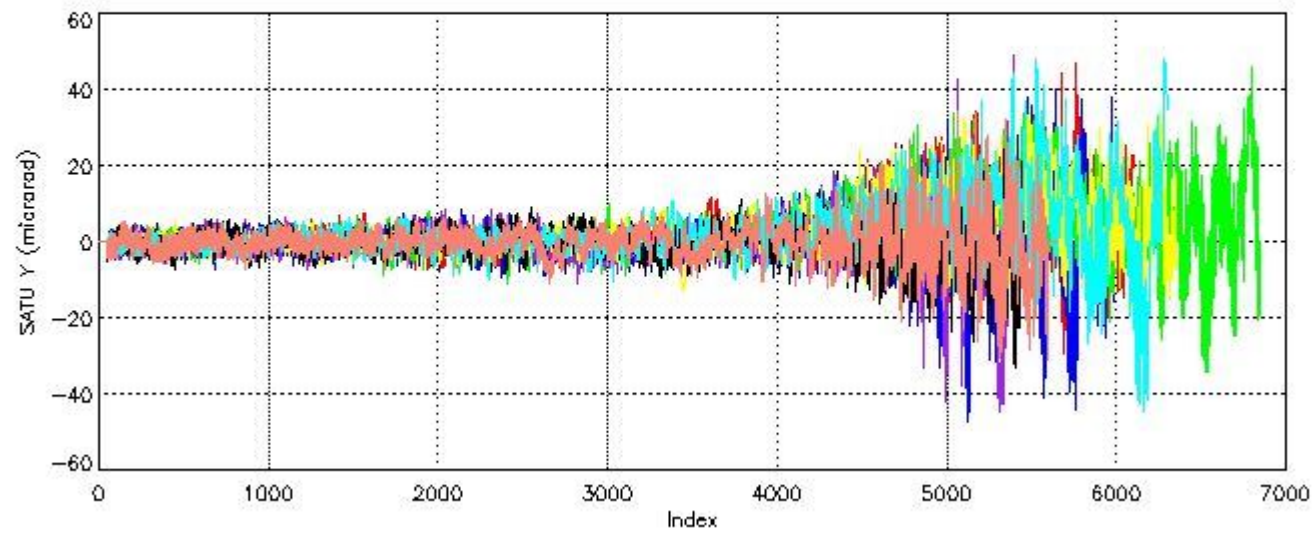
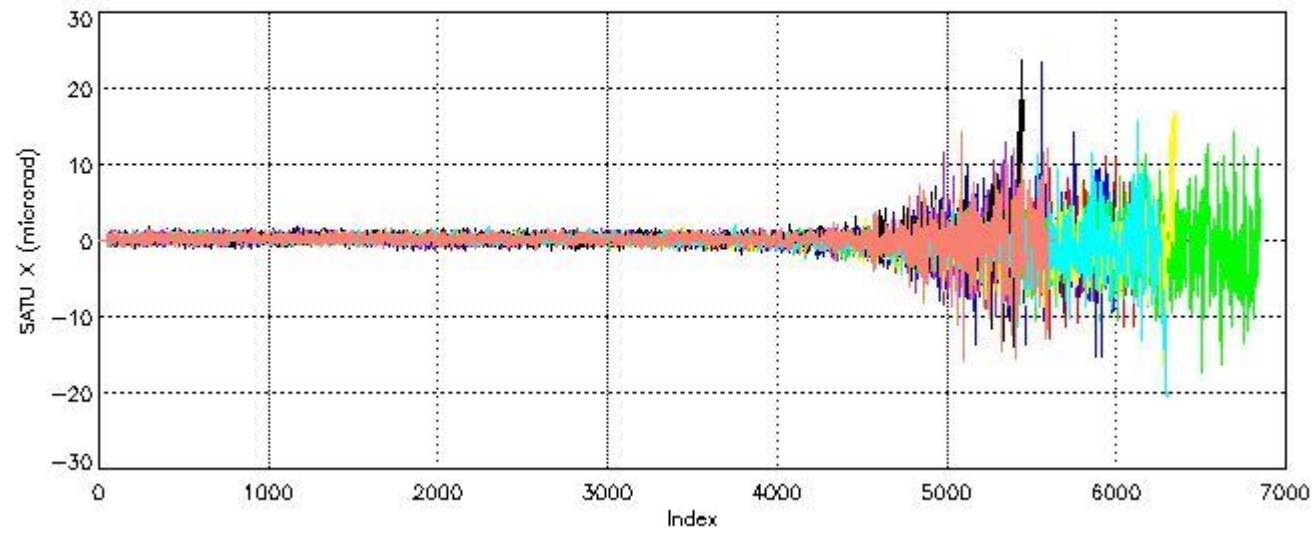


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.28357	-0.22732	0.23423	-0.13473
St. deviation:	0.37479	2.0184	0.91884	3.4053
Maximum:	1.9000	6.2000	6.3000	12.900
Minimum:	-1.0000	-7.6000	-5.8000	-12.900

Number of data:	10250.	10250.	34250.	34250.
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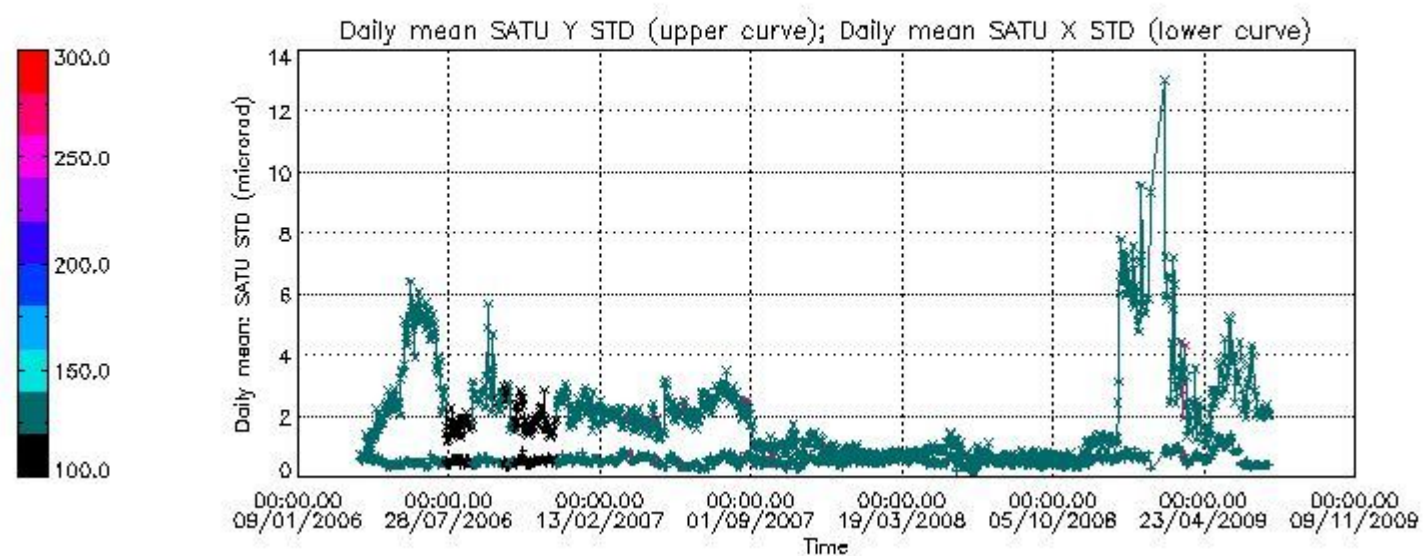
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

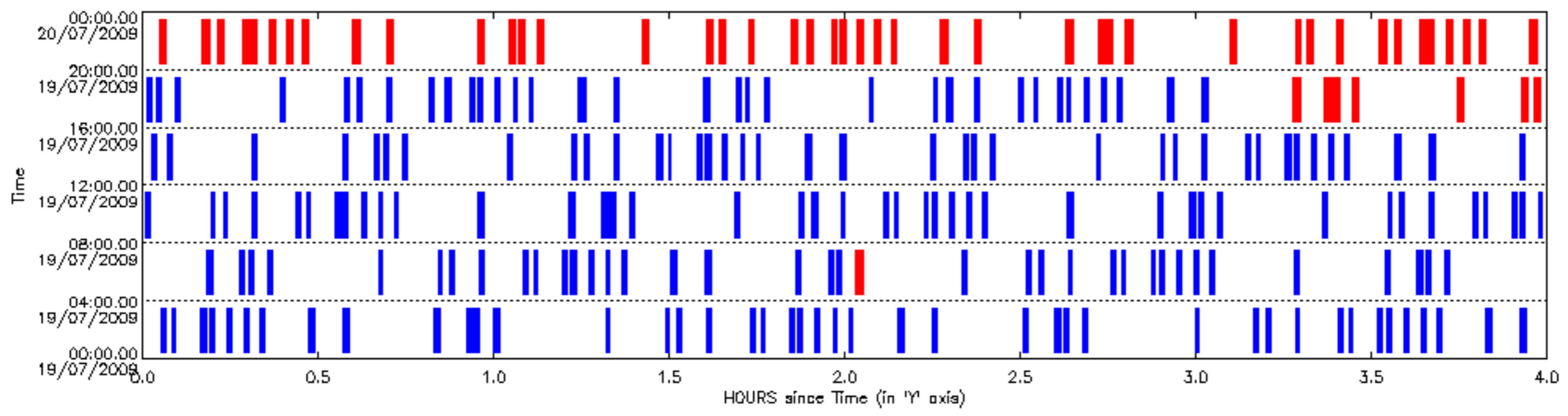
Lower curve: STD of SATU X axis

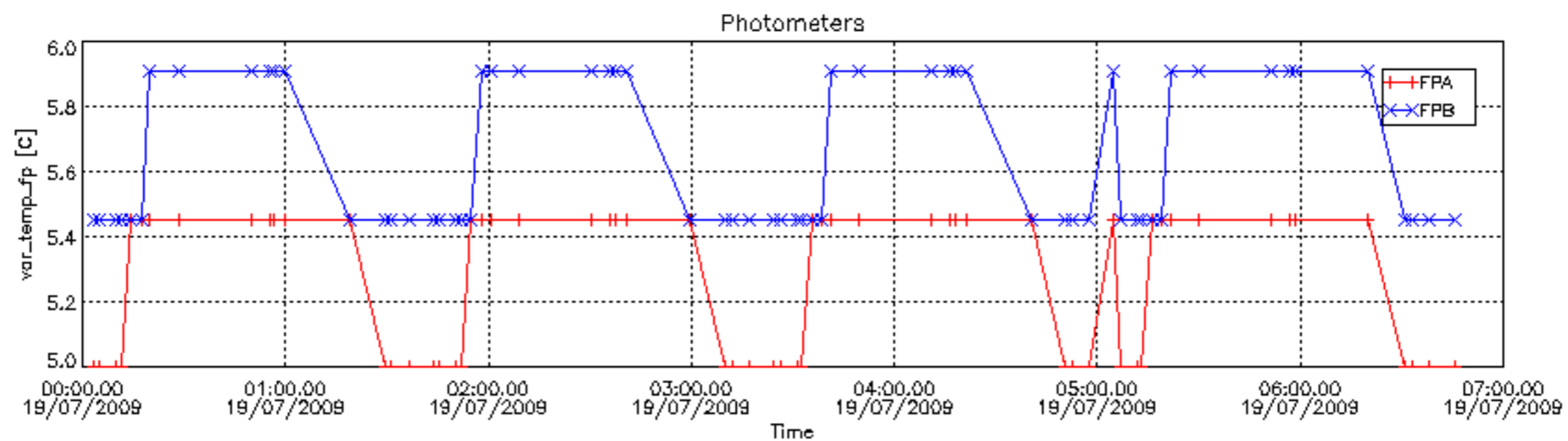
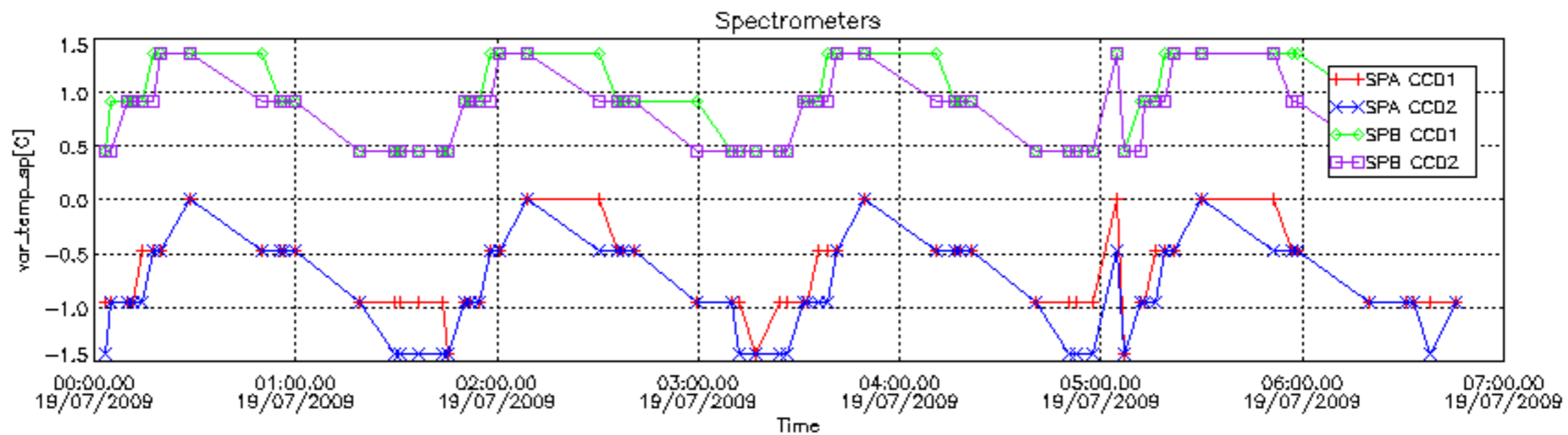


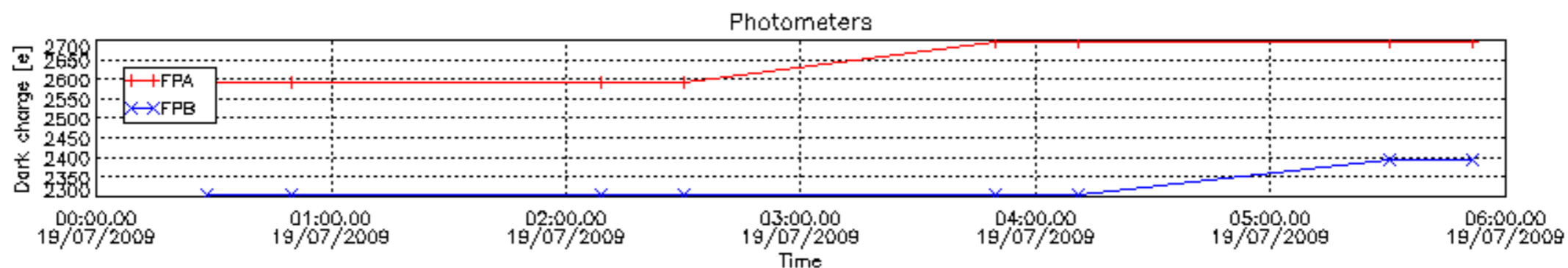
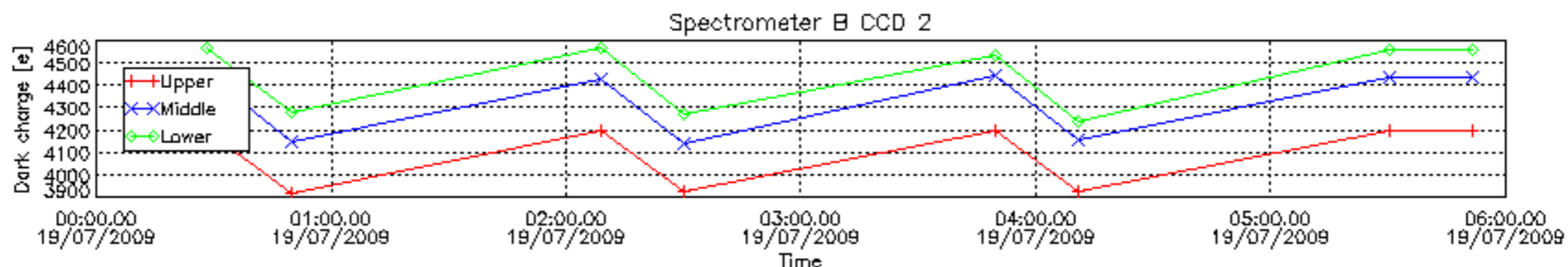
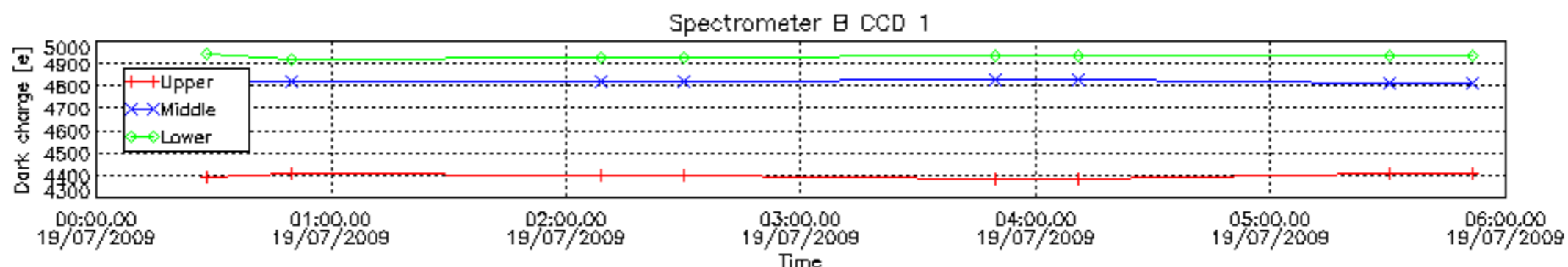
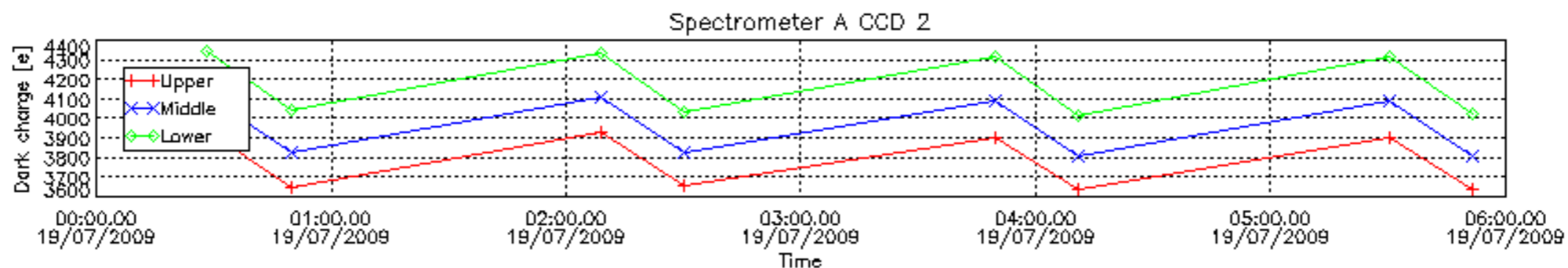
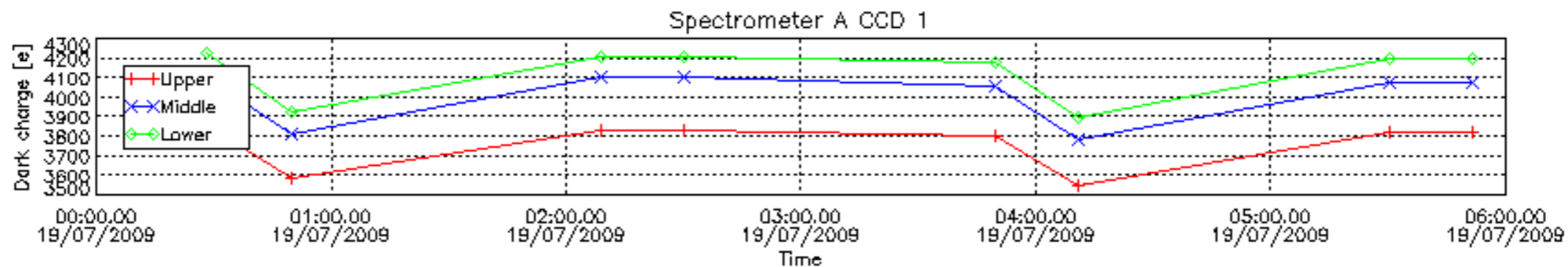
### 8. Auxiliary Data Files used for the production reported in section 2.4

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	19-JUL-2009 00:03:07
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090714_102335_20090712_000000_20100101_000000	1	19-JUL-2009 00:03:07
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-JUL-2009 00:03:07
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-JUL-2009 00:03:07
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-JUL-2009 00:03:07
ECMWF_FILE	AUX_ECF_AXNECM20090718_064113_20090718_210000_20090719_090000	1	19-JUL-2009 00:03:07
ECMWF_FILE	AUX_ECF_AXNECM20090718_184112_20090719_030000_20090719_150000	35	19-JUL-2009 03:31:06
OPTIONAL_ECMWF_FILE	MISSING	1	19-JUL-2009 00:03:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090718_210217_000060572080_00472_38602_8380.N1	1	19-JUL-2009 00:03:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090718_224832_000057382080_00473_38603_8381.N1	9	19-JUL-2009 00:49:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090719_002929_000054192080_00474_38604_8382.N1	24	19-JUL-2009 02:08:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090719_020508_000044632080_00475_38605_8383.N1	35	19-JUL-2009 03:31:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090719_032450_000054192080_00476_38606_8384.N1	49	19-JUL-2009 05:04:53



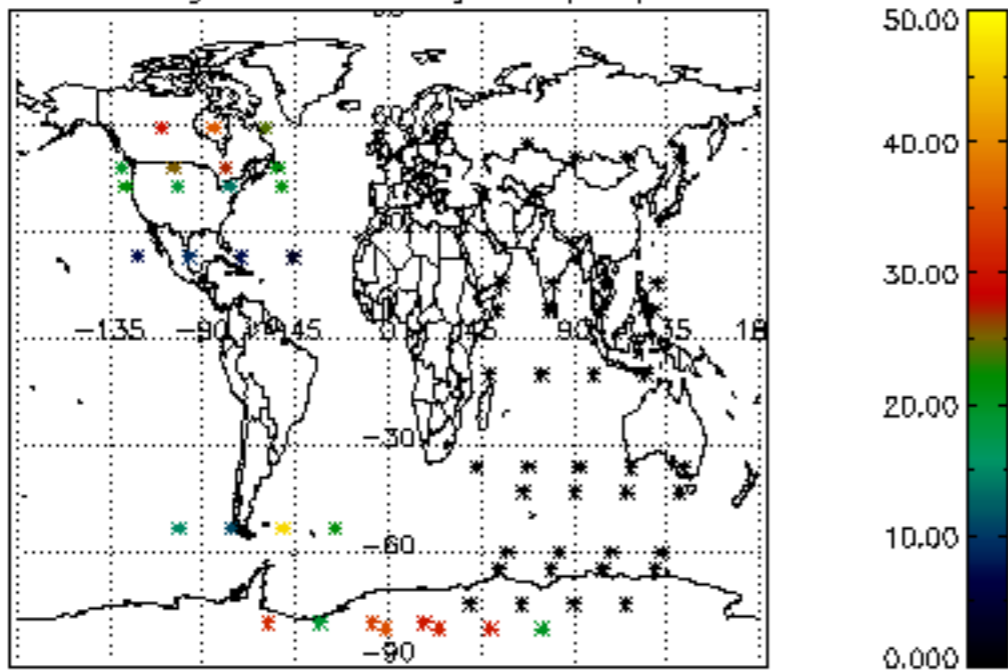




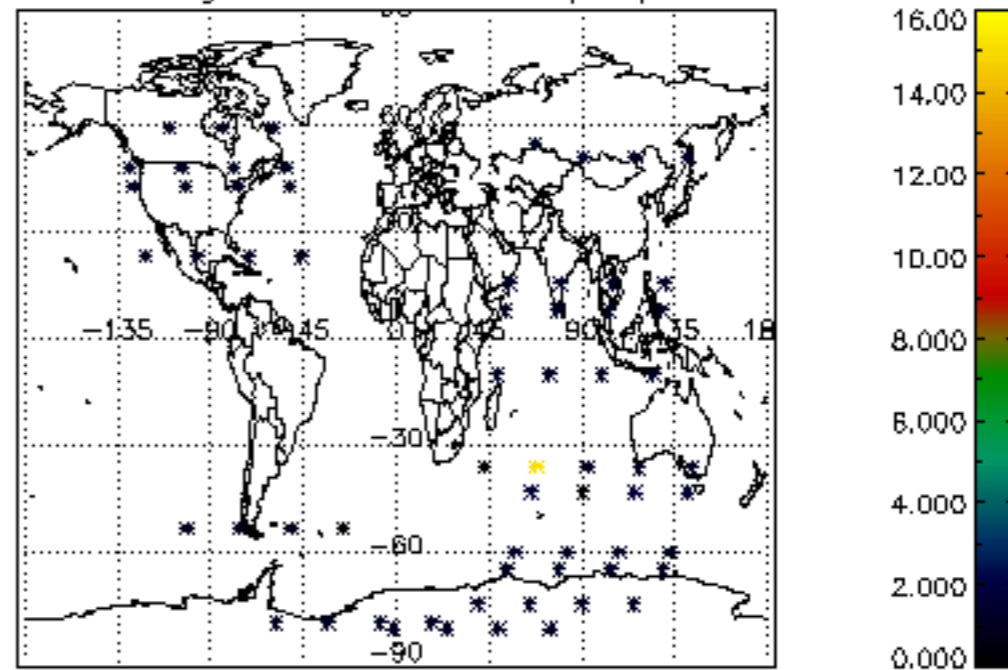




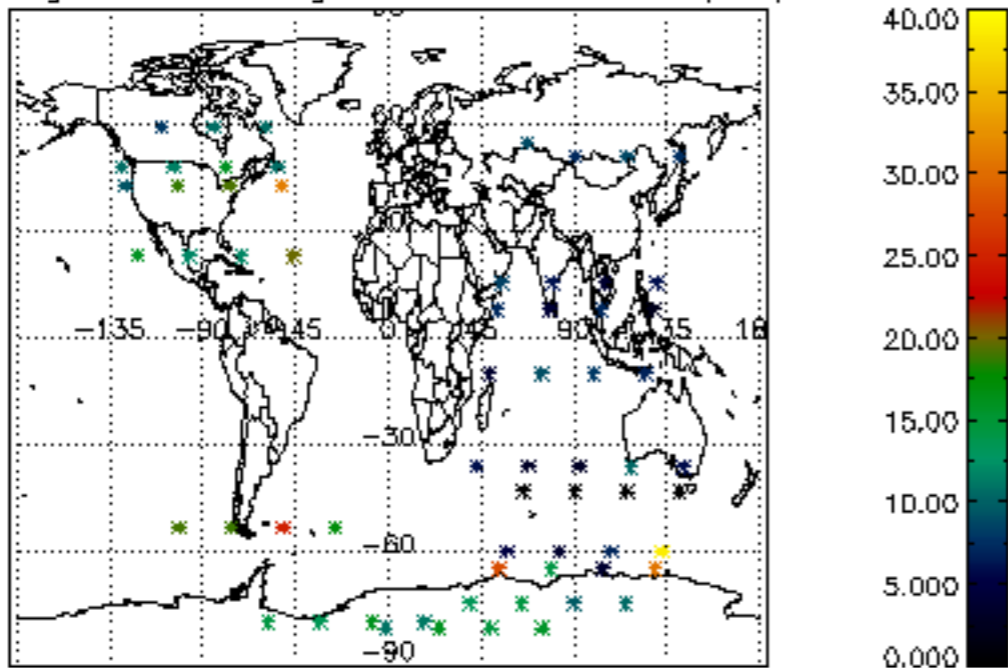
Percentage of cosmic ray hits per profile



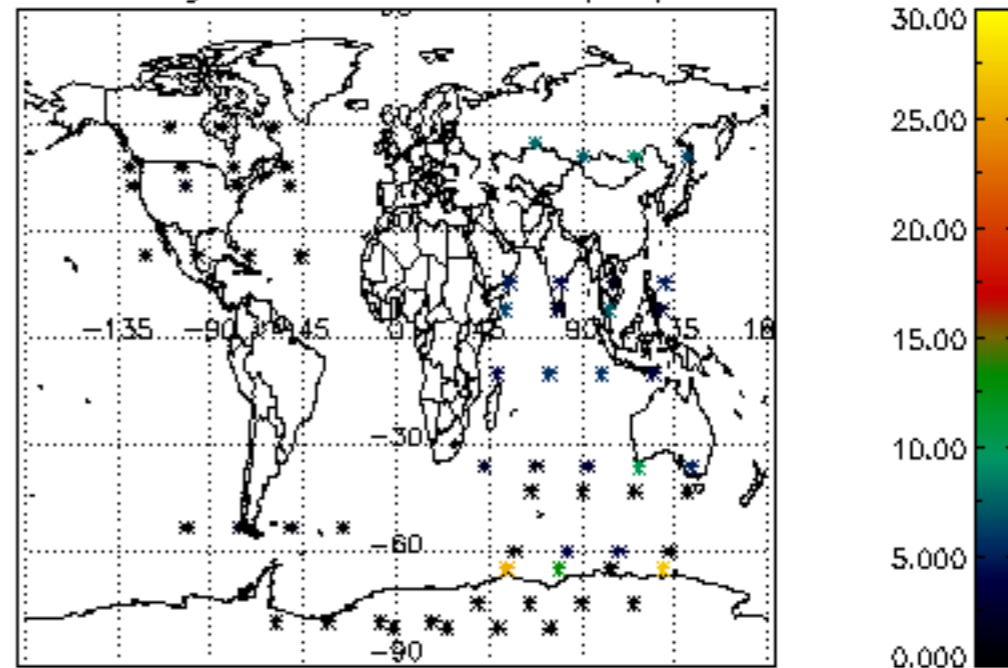
Percentage of datation errors per profile



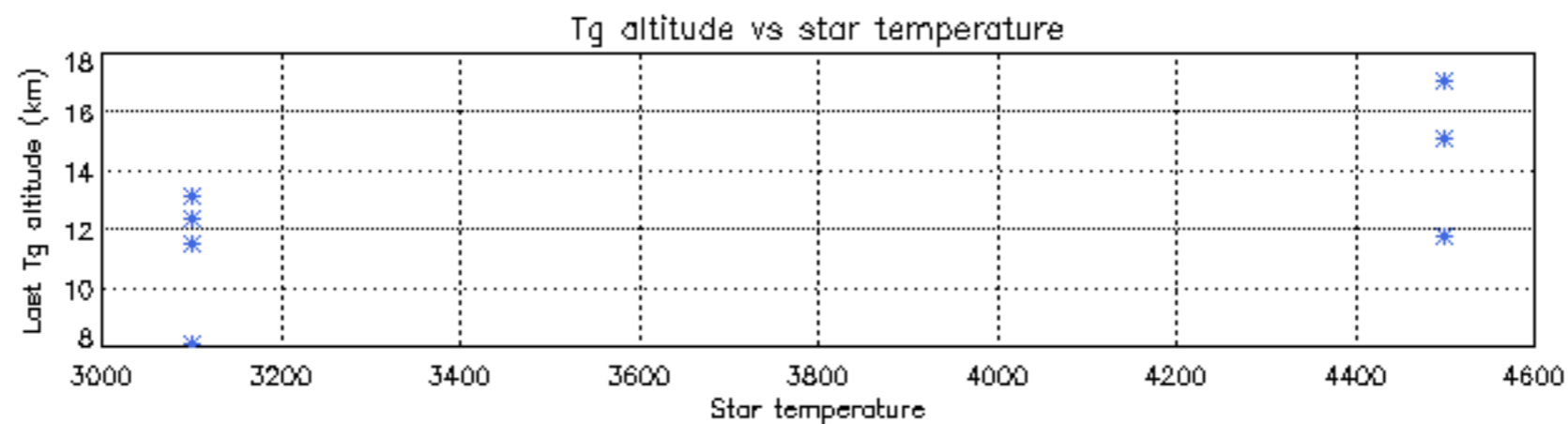
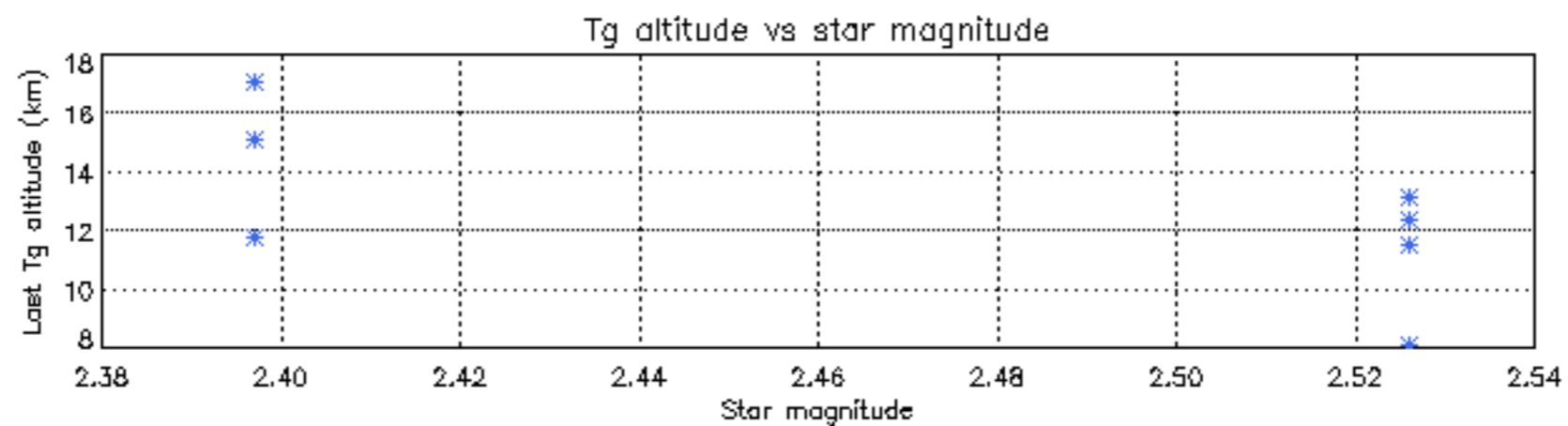
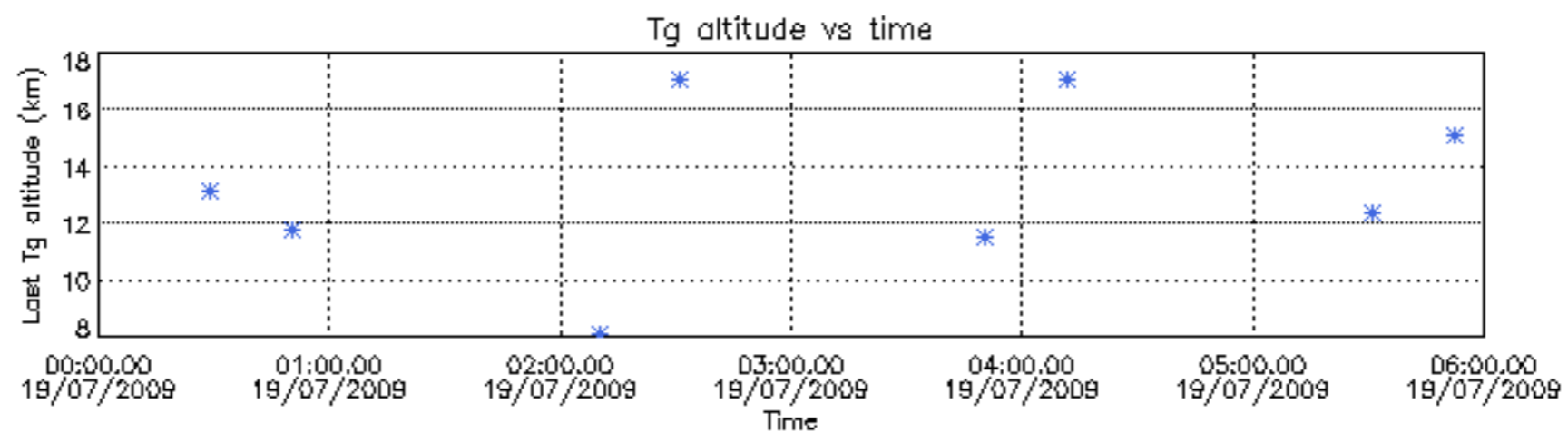
Percentage of star falling outside central band per profile



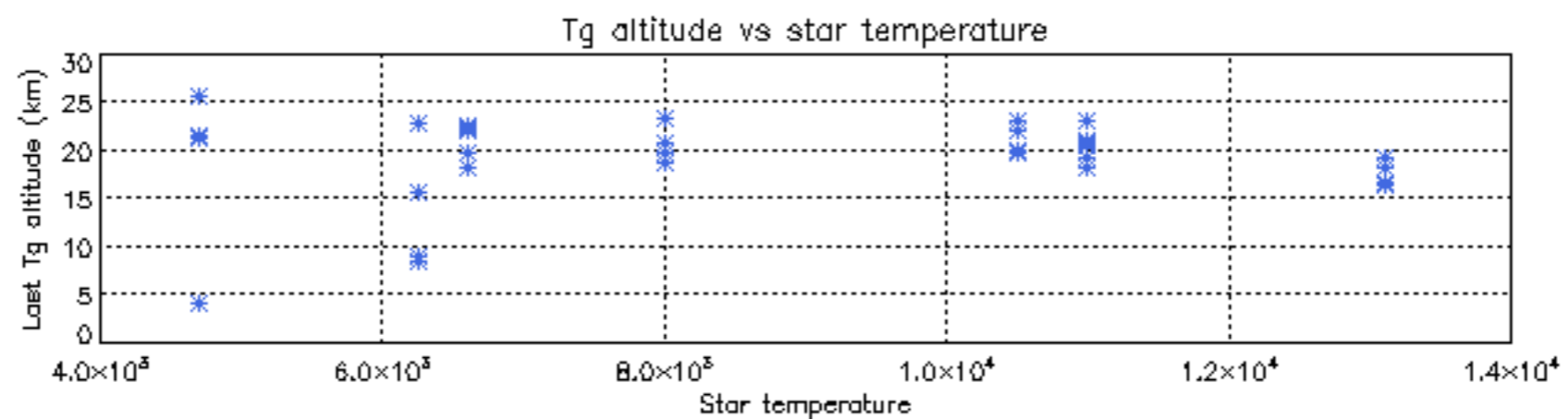
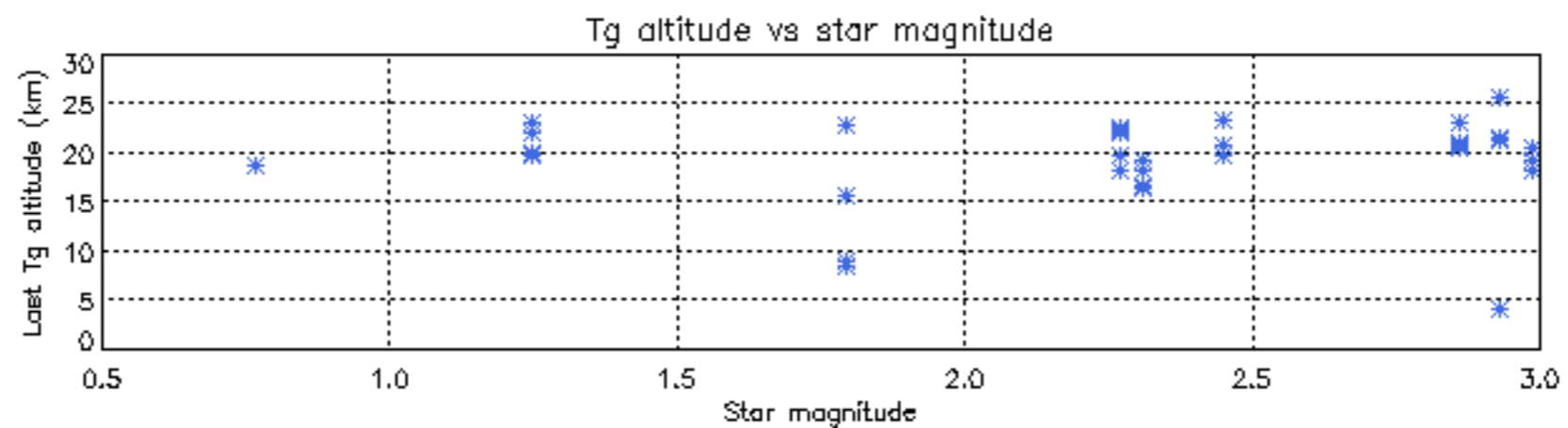
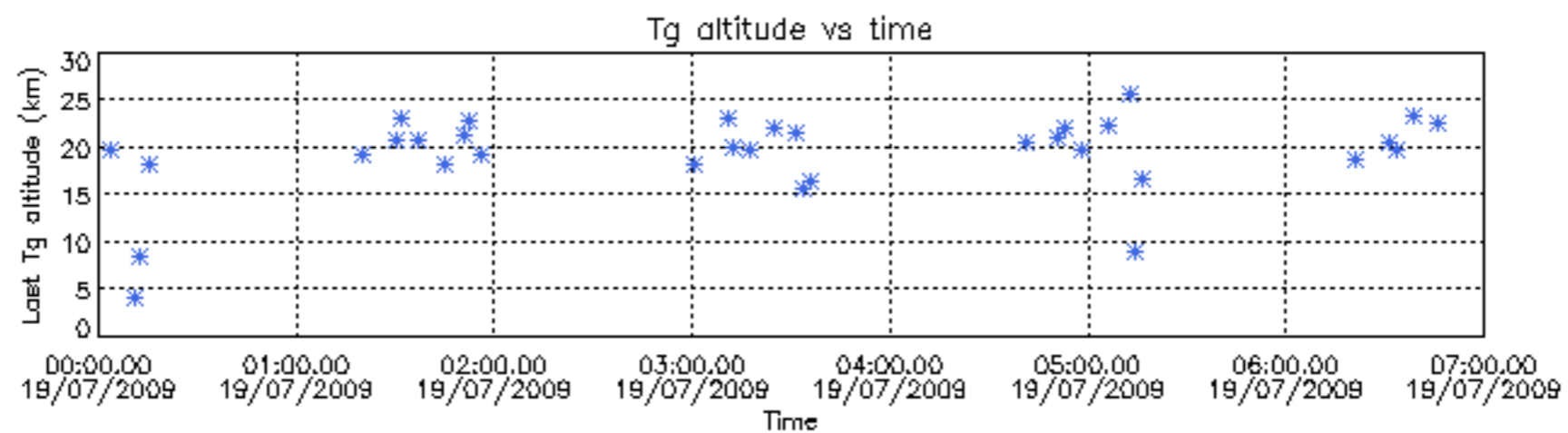
Percentage of saturation errors per profile



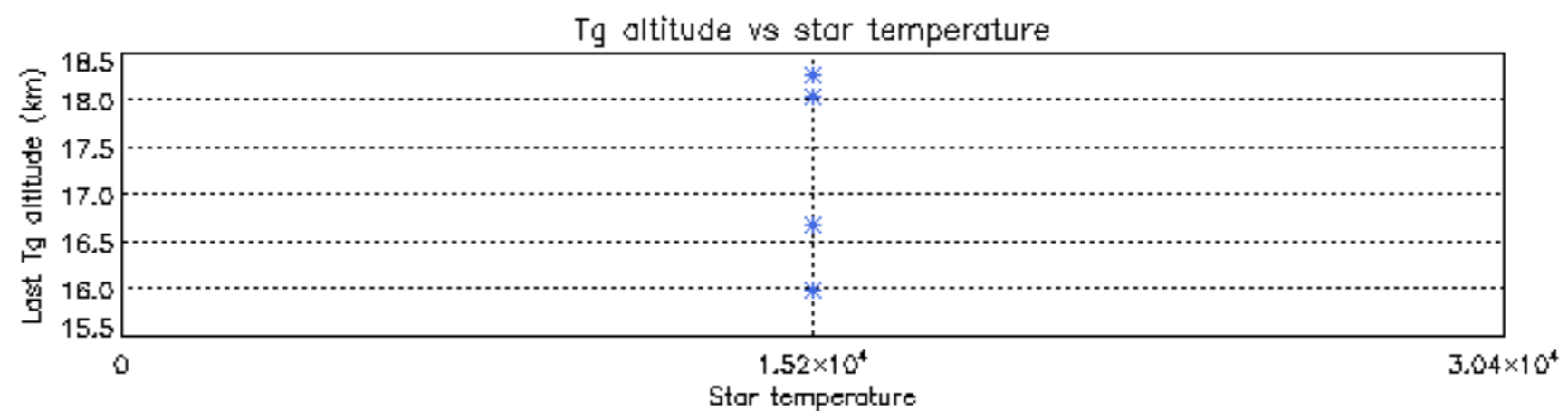
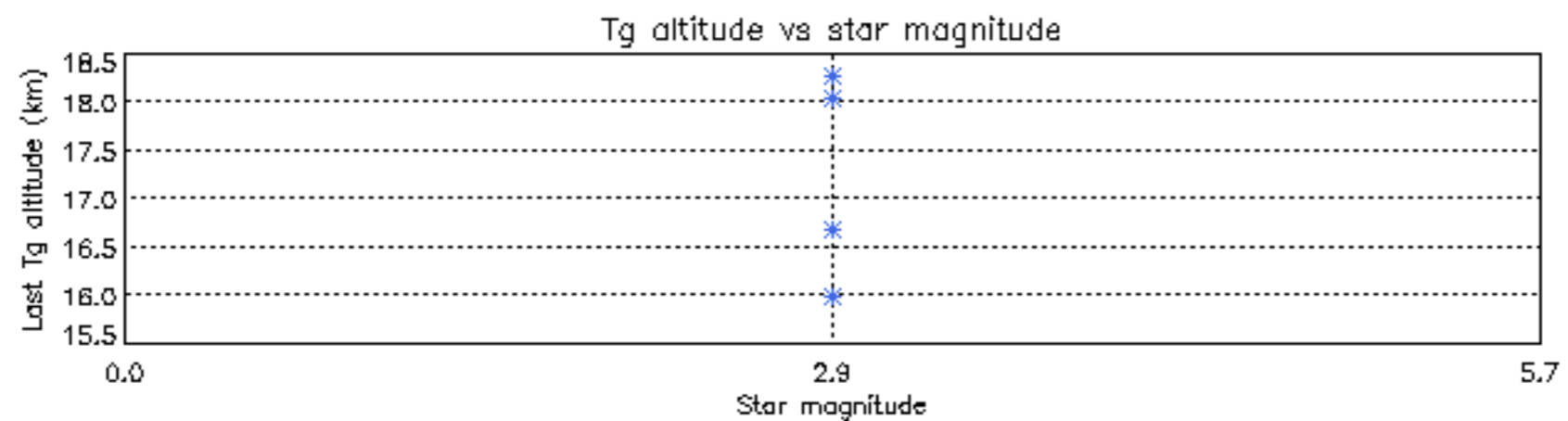
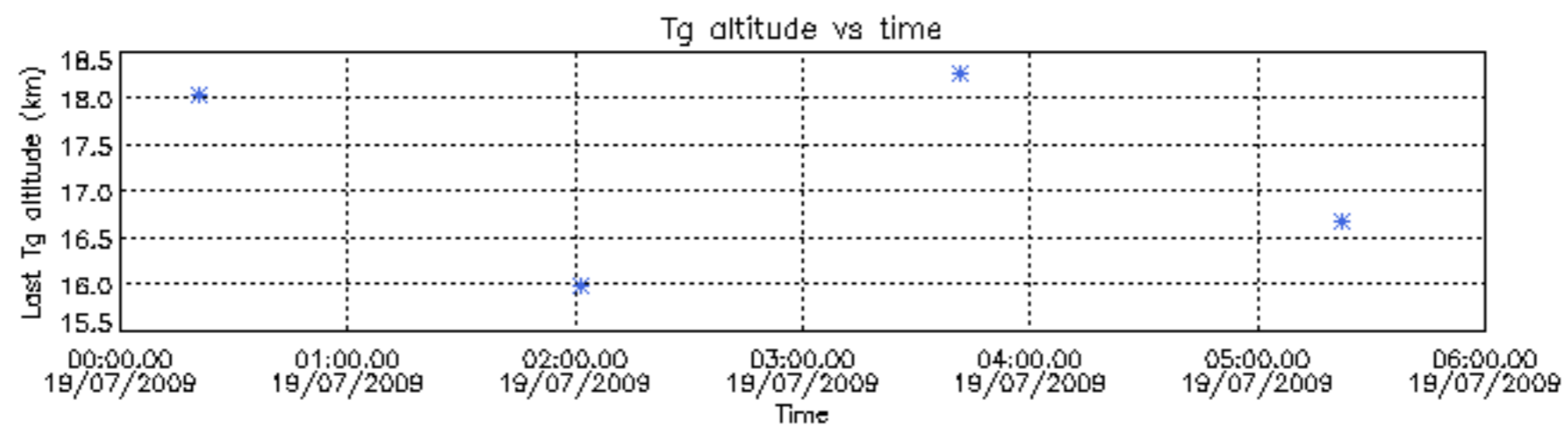
Tangent altitude at which the star is lost

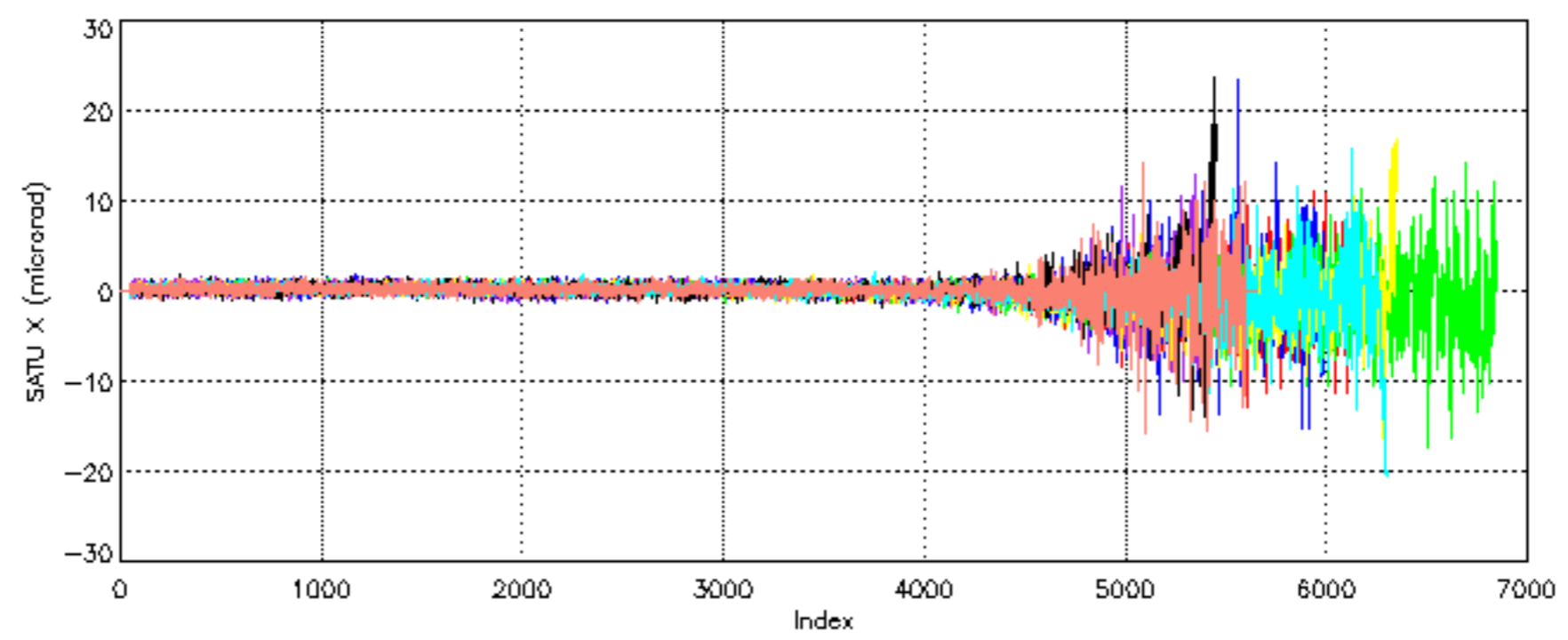


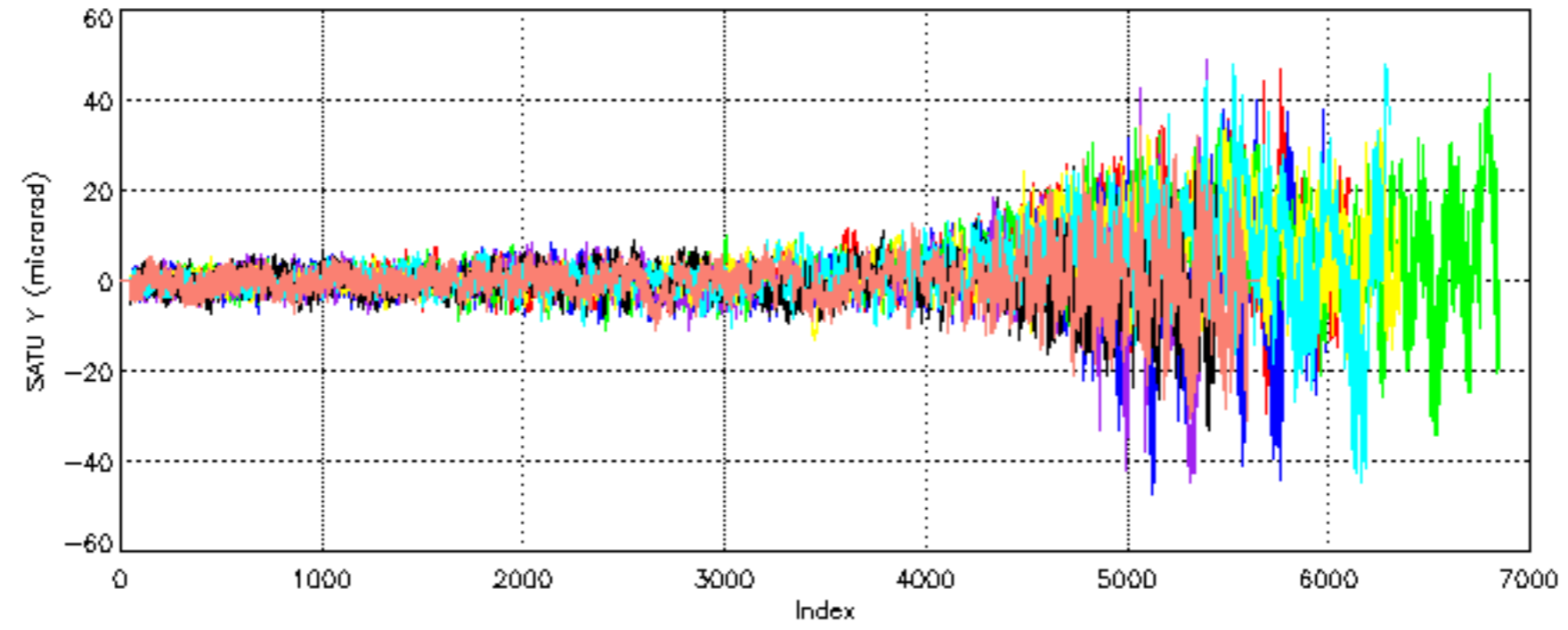
Tangent altitude at which the star is lost

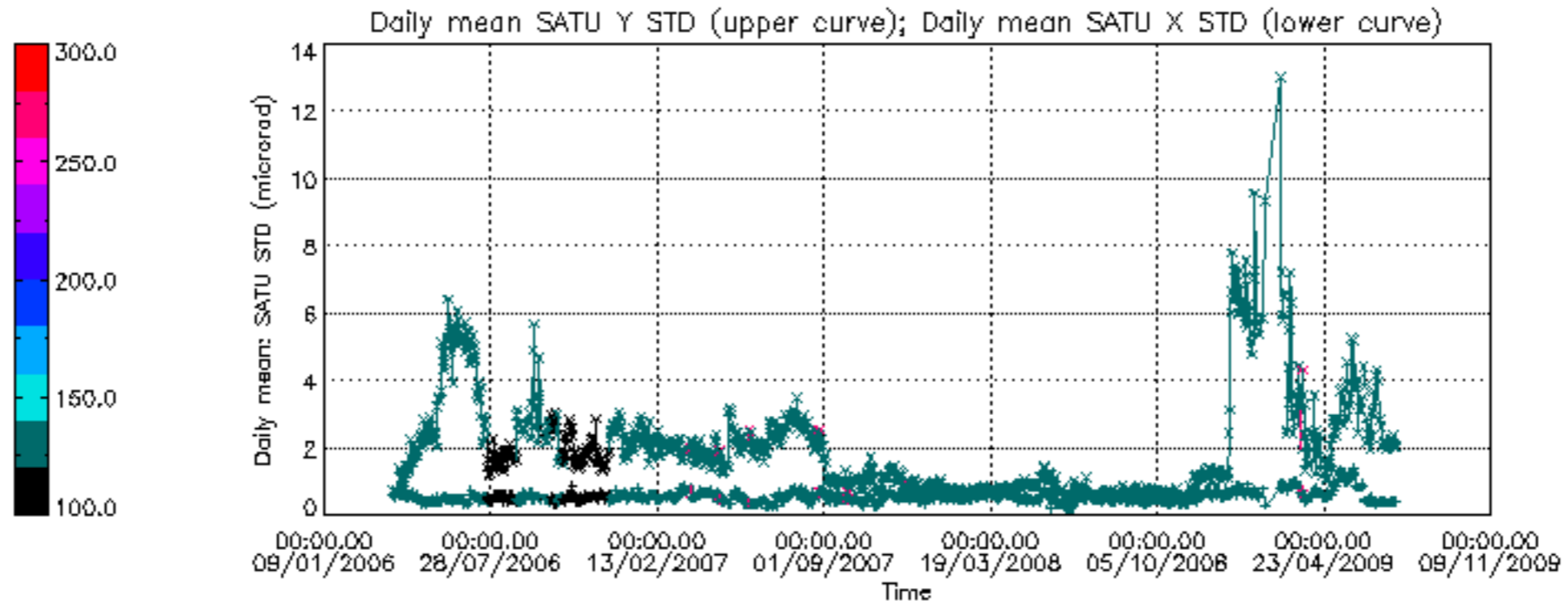


Tangent altitude at which the star is lost











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 2; 113.5; 02-JUL-2009 01:19:42; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;38362
 3; 501.4; 02-JUL-2009 01:26:10; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38362
 4; 616.8; 02-JUL-2009 01:28:06; Dark ; 59.0; 31; Alp Gru ; 1.73; 15200;occ; 118; 0;38362
 5; 792.6; 02-JUL-2009 01:31:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38362
 6; 1483.7; 02-JUL-2009 01:42:33; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38362
 7; 2224.2; 02-JUL-2009 01:54:53; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38362
 8; 2644.5; 02-JUL-2009 02:01:53; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;38362
 9; 2909.6; 02-JUL-2009 02:06:18; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38362
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11; 3777.3; 02-JUL-2009 02:20:46; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38362
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 3; 488.0; 01-JUL-2009 01:57:34; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38348
 4; 604.2; 01-JUL-2009 01:59:30; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38348
 5; 777.8; 01-JUL-2009 02:02:24; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38348
 6; 1481.2; 01-JUL-2009 02:14:07; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38348
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 9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
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 7; 489.1; 01-JUL-2009 03:38:11; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38349
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 6; 1486.6; 03-JUL-2009 02:51:34; Bright; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;38377
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4; 2878.4; 04-JUL-2009 19:29:08; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38401
5; 3307.9; 04-JUL-2009 19:36:18; Bright; 53.0; 89; 5Alp Cep ; 2.45; 8000;occ; 106; 0;38401
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14; 6687.8; 04-JUL-2009 20:32:38; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38401
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5; 836.1; 05-JUL-2009 01:37:30; Dark ; 59.0; 172; Gam Gru ; 3.00; 13100;occ; 118; 0;38405
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13; 2874.4; 05-JUL-2009 03:52:04; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38406
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6; 3747.1; 05-JUL-2009 20:52:36; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;38416
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4; 664.5; 05-JUL-2009 21:41:49; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38417
5; 847.7; 05-JUL-2009 21:44:53; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38417
6; 2199.5; 05-JUL-2009 22:07:24; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38417
7; 2621.5; 05-JUL-2009 22:14:26; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;38417
8; 2865.9; 05-JUL-2009 22:18:31; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38417
9; 3297.5; 05-JUL-2009 22:25:42; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38417
10; 3746.6; 05-JUL-2009 22:33:12; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38417
11; 3855.1; 05-JUL-2009 22:35:00; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0;38417
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7; 2621.1; 05-JUL-2009 23:55:02; Bright; 44.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 89; 0;38418  
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6; 3857.8; 05-JUL-2009 09:10:15; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0;38409  
7; 4261.8; 05-JUL-2009 09:16:59; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38409  
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12; 2852.5; 07-JUL-2009 06:09:40; Bright; 43.5; 144; 18Del Cyg ; 2.86; 11000;occ; 87; 0;38436
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3; 2845.9; 07-JUL-2009 21:14:57; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38445
4; 3278.9; 07-JUL-2009 21:22:10; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38445
5; 3729.8; 07-JUL-2009 21:29:41; Bright; 64.0; 74; 11Bet Cas ; 2.27; 6600;occ; 128; 0;38445
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7; 4257.8; 07-JUL-2009 21:38:29; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;38445
8; 4431.7; 07-JUL-2009 21:41:22; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;38445
9; 4717.4; 07-JUL-2009 21:46:08; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38445
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 3; 581.4; 07-JUL-2009 23:58:24; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38447  
 4; 689.4; 08-JUL-2009 00:00:12; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38447  
 5; 875.9; 08-JUL-2009 00:03:18; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38447  
 6; 2188.0; 08-JUL-2009 00:25:10; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;38447  
 7; 2844.6; 08-JUL-2009 00:36:07; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38447  
 8; 3277.8; 08-JUL-2009 00:43:20; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38447  
 9; 3728.8; 08-JUL-2009 00:50:51; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;38447  
 10; 3844.4; 08-JUL-2009 00:52:47; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;38447  
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 13; 4718.2; 08-JUL-2009 01:07:21; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38447  
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 6; -1015.2; 07-JUL-2009 06:45:48; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38436  
 7; -445.4; 07-JUL-2009 06:55:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38436  
 8; 193.7; 07-JUL-2009 07:05:57; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;38437  
 9; 572.4; 07-JUL-2009 07:12:16; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38437  
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 4; 3734.6; 07-JUL-2009 08:04:58; Bright; 64.5; 74; 11Bet Cas ; 2.27; 6600;occ; 129; 0;38437  
 5; 3848.1; 07-JUL-2009 08:06:51; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38437  
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 7; 4431.3; 07-JUL-2009 08:16:35; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38437  
 8; 4714.1; 07-JUL-2009 08:21:17; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;38437  
 9; 5021.3; 07-JUL-2009 08:26:25; Dark ; 39.5; 94; 92Alp Cet ; 2.53; 3100;occ; 79; 0;38437  
 10; 5591.6; 07-JUL-2009 08:35:55; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38437  
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 13; 6718.0; 07-JUL-2009 08:54:41; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38437  
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 4; 3734.0; 07-JUL-2009 09:45:33; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38438  
 5; 3847.9; 07-JUL-2009 09:47:27; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38438  
 6; 4258.8; 07-JUL-2009 09:54:18; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;38438  
 7; 4431.1; 07-JUL-2009 09:57:10; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38438  
 8; 4714.5; 07-JUL-2009 10:01:54; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;38438  
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12; 6610.1; 07-JUL-2009 10:33:29; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38438
13; 6718.8; 07-JUL-2009 10:35:18; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38438
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 3; 3733.6; 07-JUL-2009 11:26:09; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38439
 4; 3847.3; 07-JUL-2009 11:28:02; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38439
 5; 4258.7; 07-JUL-2009 11:34:54; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38439
 6; 4431.1; 07-JUL-2009 11:37:46; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38439
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12; 6719.5; 07-JUL-2009 12:15:55; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38439
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 4; 3732.9; 07-JUL-2009 13:06:44; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38440
 5; 3847.0; 07-JUL-2009 13:08:38; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;38440
 6; 4258.4; 07-JUL-2009 13:15:29; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;38440
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13; 6720.4; 07-JUL-2009 13:56:31; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38440
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 3; 3281.7; 07-JUL-2009 14:39:49; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38441
 4; 3732.5; 07-JUL-2009 14:47:19; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;38441
 5; 3846.8; 07-JUL-2009 14:49:14; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;38441
 6; 4258.4; 07-JUL-2009 14:56:05; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38441
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 3; 3281.0; 07-JUL-2009 16:20:24; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;38442
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 5; 3846.6; 07-JUL-2009 16:29:49; Bright; 40.5; 110; 37Del Cas ; 2.68; 8900;occ; 81; 0;38442
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 3; 3280.4; 07-JUL-2009 18:00:59; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38443
 4; 3731.1; 07-JUL-2009 18:08:30; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;38443

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8; 4716.4; 07-JUL-2009 18:24:55; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;38443
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6; 4298.0; 08-JUL-2009 17:46:20; Bright; 34.5; 79; 26Bet Per ; 2.31; 13100;occ; 69; 0;38457
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9; 4245.3; 13-JUL-2009 16:47:58; Bright; 62.5; 73; 57Gam1And ; 2.26; 13100;occ; 125; 0;38528
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13; 6798.6; 14-JUL-2009 13:37:42; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38540
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5; 3668.0; 14-JUL-2009 14:26:08; Bright; 73.0; 74; 11Bet Cas ; 2.27; 6600;occ; 146; 0;38541
6; 3806.8; 14-JUL-2009 14:28:27; Bright; 67.0; 110; 37Del Cas ; 2.68; 8900;occ; 134; 0;38541
7; 4042.8; 14-JUL-2009 14:32:23; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;38541
8; 4122.4; 14-JUL-2009 14:33:42; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38541
9; 4242.9; 14-JUL-2009 14:35:43; Bright; 31.0; 73; 57Gam1And ; 2.26; 13100;occ; 62; 0;38541
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13; 6701.1; 14-JUL-2009 15:16:41; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38541
14; 6799.5; 14-JUL-2009 15:18:19; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38541
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4; 3219.2; 14-JUL-2009 15:59:15; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38542
5; 3667.4; 14-JUL-2009 16:06:43; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38542
6; 3806.3; 14-JUL-2009 16:09:02; Bright; 43.5; 110; 37Del Cas ; 2.68; 8900;occ; 87; 0;38542
7; 4042.7; 14-JUL-2009 16:12:58; Bright; 60.0; 160; 23Gam Per ; 2.93; 4700;occ; 120; 0;38542
8; 4122.3; 14-JUL-2009 16:14:18; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;38542
9; 4242.7; 14-JUL-2009 16:16:18; Bright; 26.0; 73; 57Gam1And ; 2.26; 13100;occ; 52; 0;38542

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13; 6348.8; 14-JUL-2009 16:51:24; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38542
14; 6702.2; 14-JUL-2009 16:57:18; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;38542
15; 6800.1; 14-JUL-2009 16:58:56; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38542
16; 6992.3; 14-JUL-2009 17:02:08; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;38542
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 3; 2784.7; 14-JUL-2009 20:53:48; Bright; 42.5; 144; 18Del Cyg ; 2.86; 11000;occ; 85; 0;38545
 4; 2930.8; 14-JUL-2009 20:56:14; Bright; 53.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 106; 0;38545
 5; 3217.3; 14-JUL-2009 21:01:01; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38545
 6; 3665.3; 14-JUL-2009 21:08:29; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38545
 7; 3805.1; 14-JUL-2009 21:10:49; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38545
 8; 4042.0; 14-JUL-2009 21:14:46; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;38545
 9; 4122.0; 14-JUL-2009 21:16:06; Bright; 49.0; 35; 33Alp Per ; 1.79; 6250;occ; 98; 0;38545
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 3; 668.7; 14-JUL-2009 21:59:08; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38546
 4; 766.4; 14-JUL-2009 22:00:46; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;38546
 5; 958.7; 14-JUL-2009 22:03:58; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38546
 6; 2110.6; 14-JUL-2009 22:23:10; Bright; 46.5; 11; 53Alp Aql ; 0.76; 8000;occ; 93; 0;38546
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 9; 3216.7; 14-JUL-2009 22:41:36; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38546
10; 3664.7; 14-JUL-2009 22:49:04; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38546
11; 3804.8; 14-JUL-2009 22:51:24; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38546
12; 4041.9; 14-JUL-2009 22:55:21; Bright; 52.5; 160; 23Gam Per ; 2.93; 4700;occ; 105; 0;38546
13; 4121.8; 14-JUL-2009 22:56:41; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;38546
14; 4297.3; 14-JUL-2009 22:59:37; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38546
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 3; 669.3; 14-JUL-2009 23:39:45; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38547
 4; 766.9; 14-JUL-2009 23:41:22; Dark ; 53.5; 31; Alp Gru ; 1.73; 15200;occ; 107; 0;38547
 5; 959.4; 14-JUL-2009 23:44:35; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38547
 6; 2109.9; 15-JUL-2009 00:03:45; Bright; 49.5; 11; 53Alp Aql ; 0.76; 8000;occ; 99; 0;38547
 7; 2783.6; 15-JUL-2009 00:14:59; Bright; 40.5; 144; 18Del Cyg ; 2.86; 11000;occ; 81; 0;38547
 8; 2928.8; 15-JUL-2009 00:17:24; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38547
 9; 3216.0; 15-JUL-2009 00:22:11; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;38547
10; 3663.8; 15-JUL-2009 00:29:39; Bright; 65.0; 74; 11Bet Cas ; 2.27; 6600;occ; 130; 0;38547
11; 3804.5; 15-JUL-2009 00:32:00; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38547
12; 4041.7; 15-JUL-2009 00:35:57; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;38547
13; 4121.8; 15-JUL-2009 00:37:17; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;38547
14; 4297.3; 15-JUL-2009 00:40:13; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38547
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 3; 2932.6; 14-JUL-2009 17:35:04; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38543
 4; 3218.7; 14-JUL-2009 17:39:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38543
 5; 3666.7; 14-JUL-2009 17:47:18; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38543
 6; 3806.0; 14-JUL-2009 17:49:38; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;38543
 7; 4042.4; 14-JUL-2009 17:53:34; Bright; 60.0; 160; 23Gam Per ; 2.93; 4700;occ; 120; 0;38543
 8; 4122.1; 14-JUL-2009 17:54:54; Bright; 40.0; 35; 33Alp Per ; 1.79; 6250;occ; 80; 0;38543
 9; 4242.4; 14-JUL-2009 17:56:54; Bright; 26.0; 73; 57Gam1And ; 2.26; 13100;occ; 52; 0;38543
10; 4297.4; 14-JUL-2009 17:57:49; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;38543
11; 5087.4; 14-JUL-2009 18:10:59; Dark ; 65.0; 94; 92Alp Cet ; 2.53; 3100;occ; 130; 0;38543
12; 5433.2; 14-JUL-2009 18:16:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38543
13; 6350.0; 14-JUL-2009 18:32:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38543
14; 6703.1; 14-JUL-2009 18:37:55; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38543
15; 6800.8; 14-JUL-2009 18:39:32; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38543
16; 6993.1; 14-JUL-2009 18:42:45; Dark ; 52.5; 172; Gam Gru ; 3.00; 13100;occ; 105; 0;38543

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 3; 2785.2; 14-JUL-2009 19:13:13; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38544  
 4; 2931.7; 14-JUL-2009 19:15:39; Bright; 57.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 115; 0;38544  
 5; 3217.9; 14-JUL-2009 19:20:26; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38544  
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 3; 670.2; 15-JUL-2009 01:20:21; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;38548  
 4; 767.6; 15-JUL-2009 01:21:59; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38548  
 5; 960.4; 15-JUL-2009 01:25:12; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 0;38548  
 6; 2109.7; 15-JUL-2009 01:44:21; Bright; 48.5; 11; 53Alp Aql ; 0.76; 8000;occ; 97; 0;38548  
 7; 2783.0; 15-JUL-2009 01:55:34; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38548  
 8; 2927.9; 15-JUL-2009 01:57:59; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38548  
 9; 3215.4; 15-JUL-2009 02:02:47; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;38548  
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 11; 3803.7; 15-JUL-2009 02:12:35; Bright; 49.0; 110; 37Del Cas ; 2.68; 8900;occ; 98; 0;38548  
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 3; -1738.7; 15-JUL-2009 02:20:48; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;38548  
 4; -944.8; 15-JUL-2009 02:34:02; Dark ; 60.5; 94; 92Alp Cet ; 2.53; 3100;occ; 121; 0;38548  
 5; -598.4; 15-JUL-2009 02:39:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38548  
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 8; 768.4; 15-JUL-2009 03:02:36; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38549  
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 5; -1738.6; 15-JUL-2009 04:01:25; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38549  
 6; -944.0; 15-JUL-2009 04:14:39; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;38549  
 7; -597.5; 15-JUL-2009 04:20:26; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38549  
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 9; 672.1; 15-JUL-2009 04:41:35; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38550  
 10; 769.2; 15-JUL-2009 04:43:12; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38550  
 11; 961.6; 15-JUL-2009 04:46:25; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38550  
 12; 2109.0; 15-JUL-2009 05:05:32; Bright; 46.0; 11; 53Alp Aql ; 0.76; 8000;occ; 92; 0;38550  
 13; 2782.0; 15-JUL-2009 05:16:45; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38550  
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 15; 3214.4; 15-JUL-2009 05:23:58; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38550  
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4; 797.7; 17-JUL-2009 23:47:38; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38590
5; 990.9; 17-JUL-2009 23:50:51; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38590
6; 2153.6; 18-JUL-2009 00:10:14; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;38590
7; 2762.2; 18-JUL-2009 00:20:23; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;38590
8; 2893.0; 18-JUL-2009 00:22:33; Bright; 49.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 99; 0;38590
9; 3191.2; 18-JUL-2009 00:27:32; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38590
10; 3633.9; 18-JUL-2009 00:34:54; Bright; 54.5; 74; 11Bet Cas ; 2.27; 6600;occ; 109; 0;38590
11; 3750.9; 18-JUL-2009 00:36:51; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38590
12; 4034.1; 18-JUL-2009 00:41:34; Bright; 62.0; 160; 23Gam Per ; 2.93; 4700;occ; 124; 0;38590
13; 4117.2; 18-JUL-2009 00:42:58; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38590
14; 4295.7; 18-JUL-2009 00:45:56; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;38590
15; 4473.8; 18-JUL-2009 00:48:54; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38590
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3; 2901.0; 17-JUL-2009 07:36:42; Bright; 71.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 142; 0;38580
4; 3196.9; 17-JUL-2009 07:41:38; Bright; 63.0; 89; 5Alp Cep ; 2.45; 8000;occ; 126; 0;38580
5; 3641.1; 17-JUL-2009 07:49:02; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38580
6; 3757.6; 17-JUL-2009 07:50:59; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38580
7; 4036.0; 17-JUL-2009 07:55:37; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38580
8; 4118.3; 17-JUL-2009 07:56:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38580
9; 4296.3; 17-JUL-2009 07:59:57; Bright; 50.0; 79; 26Bet Per ; 2.31; 13100;occ; 100; 0;38580
10; 4472.6; 17-JUL-2009 08:02:54; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38580
11; 4628.9; 17-JUL-2009 08:05:30; Dark ; 43.0; 146; 25Eta Tau ; 2.87; 15200;occ; 86; 0;38580
12; 5116.1; 17-JUL-2009 08:13:37; Dark ; 59.0; 94; 92Alp Cet ; 2.53; 3100;occ; 118; 0;38580
13; 5467.3; 17-JUL-2009 08:19:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38580
14; 6392.4; 17-JUL-2009 08:34:54; Dark ; 58.0; 84; Alp Phe ; 2.40; 4500;occ; 116; 0;38580
15; 6733.7; 17-JUL-2009 08:40:35; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;38580
16; 6827.4; 17-JUL-2009 08:42:08; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38580
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3; 2900.2; 17-JUL-2009 09:17:17; Bright; 48.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 96; 0;38581
4; 3196.3; 17-JUL-2009 09:22:13; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38581
5; 3640.2; 17-JUL-2009 09:29:37; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38581
6; 3757.1; 17-JUL-2009 09:31:34; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38581
7; 4035.8; 17-JUL-2009 09:36:13; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38581

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9; 4296.1; 17-JUL-2009 09:40:33; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;38581  
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11; 4629.2; 17-JUL-2009 09:46:06; Dark ; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;38581  
12; 5116.9; 17-JUL-2009 09:54:14; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;38581  
13; 5468.3; 17-JUL-2009 10:00:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38581  
14; 6393.4; 17-JUL-2009 10:15:30; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38581  
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16; 6828.0; 17-JUL-2009 10:22:45; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38581  
17; 7021.6; 17-JUL-2009 10:25:59; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 0;38581

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3; 2899.5; 17-JUL-2009 10:57:52; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38582  
4; 3195.5; 17-JUL-2009 11:02:48; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38582  
5; 3639.4; 17-JUL-2009 11:10:12; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38582  
6; 3756.2; 17-JUL-2009 11:12:09; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38582  
7; 4035.4; 17-JUL-2009 11:16:48; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38582  
8; 4118.0; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582  
9; 4296.0; 17-JUL-2009 11:21:09; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38582  
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12; 5117.7; 17-JUL-2009 11:34:51; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38582  
13; 5469.2; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582  
14; 6394.7; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38582  
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16; 6828.8; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38582  
17; 7021.9; 17-JUL-2009 12:06:35; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38582

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3;-2000.5; 17-JUL-2009 11:16:48; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38582  
4;-1917.8; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582  
5;-1739.8; 17-JUL-2009 11:21:09; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38582  
6;-1562.8; 17-JUL-2009 11:24:06; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38582  
7;-1406.3; 17-JUL-2009 11:26:43; Dark ; 44.5; 146; 25Eta Tau ; 2.87; 15200;occ; 89; 0;38582  
8; -918.2; 17-JUL-2009 11:34:51; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38582  
9; -566.7; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582  
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12; 793.0; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38583  
13; 986.0; 17-JUL-2009 12:06:35; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38583

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3; 2898.7; 17-JUL-2009 12:38:28; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38583  
4; 3195.2; 17-JUL-2009 12:43:24; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38583  
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7; 4035.5; 17-JUL-2009 12:57:24; Bright; 62.0; 160; 23Gam Per ; 2.93; 4700;occ; 124; 0;38583  
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12; 5118.5; 17-JUL-2009 13:15:27; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38583  
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5; 3638.2; 17-JUL-2009 14:31:23; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38584  
6; 3755.1; 17-JUL-2009 14:33:20; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38584  
7; 4035.3; 17-JUL-2009 14:38:00; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;38584

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6; 1029.7; 22-JUL-2009 01:06:14; Dark ; 49.0; 172; Gam Gru ; 3.00; 13100;occ; 98; 0;38648
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13; 4007.0; 25-JUL-2009 23:49:23; Bright; 43.0; 160; 23Gam Per ; 2.93; 4700;occ; 86; 0;38704
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4; 3135.5; 25-JUL-2009 08:29:28; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38695
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13; 5368.9; 25-JUL-2009 12:27:53; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38697
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