

# GOMOS Daily Report 21-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	26JUL2009 04:48:39
Data source version	GOMOS/5.00
Start time of products	21JUL2009 20:04:24
Stop time of products	21JUL2009 23:55:59
Store outputs in DB	Yes
Nb of level 1b prods	38
Nb of prods with errors	0

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

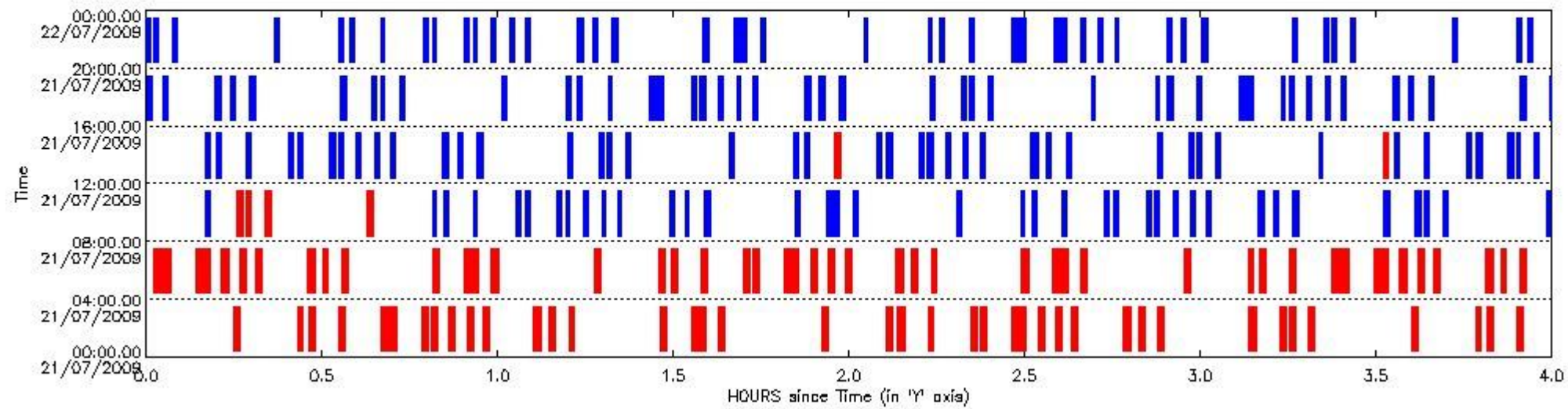
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
21-JUL-2009 00:14:48	53AlpAql	11	38633
21-JUL-2009 00:25:48	18DelCyg	144	38633
21-JUL-2009 00:27:45	50AlpCyg	19	38633
21-JUL-2009 00:32:52	5AlpCep	89	38633
21-JUL-2009 00:40:07	11BetCas	74	38633
21-JUL-2009 00:41:42	27GamCas	76	38633
21-JUL-2009 00:47:10	23GamPer	160	38633
21-JUL-2009 00:48:36	33AlpPer	35	38633
21-JUL-2009 00:51:38	26BetPer	79	38633
21-JUL-2009 00:54:44	44ZetPer	150	38633
21-JUL-2009 00:57:27	25EtaTau	146	38633
21-JUL-2009 01:06:08	92AlpCet	94	38633
21-JUL-2009 01:08:50	34GamEri	165	38633
21-JUL-2009 01:12:07	DSA1064	0	38633
21-JUL-2009 01:27:38	AlpPhe	84	38634

21-JUL-2009 01:33:00	BetGru	63	38634
21-JUL-2009 01:34:28	AlpGru	31	38634
21-JUL-2009 01:37:41	GamGru	172	38634
21-JUL-2009 01:55:24	53AlpAql	11	38634
21-JUL-2009 02:06:23	18DelCyg	144	38634
21-JUL-2009 02:08:20	50AlpCyg	19	38634
21-JUL-2009 02:13:27	5AlpCep	89	38634
21-JUL-2009 02:20:42	11BetCas	74	38634
21-JUL-2009 02:22:18	27GamCas	76	38634
21-JUL-2009 02:27:45	23GamPer	160	38634
21-JUL-2009 02:29:12	33AlpPer	35	38634
21-JUL-2009 02:32:14	26BetPer	79	38634
21-JUL-2009 02:35:20	44ZetPer	150	38634
21-JUL-2009 02:38:03	25EtaTau	146	38634
21-JUL-2009 02:46:45	92AlpCet	94	38634
21-JUL-2009 02:49:26	34GamEri	165	38634
21-JUL-2009 02:52:44	DSA1064	0	38634
21-JUL-2009 03:08:15	AlpPhe	84	38635
21-JUL-2009 03:13:37	BetGru	63	38635
21-JUL-2009 03:15:04	AlpGru	31	38635
21-JUL-2009 03:18:18	GamGru	172	38635
21-JUL-2009 03:35:59	53AlpAql	11	38635
21-JUL-2009 03:46:59	18DelCyg	144	38635
21-JUL-2009 03:48:55	50AlpCyg	19	38635
21-JUL-2009 03:54:03	5AlpCep	89	38635
21-JUL-2009 04:01:17	11BetCas	74	38635
21-JUL-2009 04:02:53	27GamCas	76	38635
21-JUL-2009 04:08:21	23GamPer	160	38635
21-JUL-2009 04:09:47	33AlpPer	35	38635
21-JUL-2009 04:12:50	26BetPer	79	38635
21-JUL-2009 04:15:56	44ZetPer	150	38635
21-JUL-2009 04:18:40	25EtaTau	146	38635
21-JUL-2009 04:27:22	92AlpCet	94	38635
21-JUL-2009 04:30:03	34GamEri	165	38635
21-JUL-2009 04:33:21	DSA1064	0	38635
21-JUL-2009 04:48:52	AlpPhe	84	38636
21-JUL-2009 04:54:13	BetGru	63	38636
21-JUL-2009 04:55:41	AlpGru	31	38636
21-JUL-2009 04:58:54	GamGru	172	38636
21-JUL-2009 05:16:35	53AlpAql	11	38636
21-JUL-2009 05:27:34	18DelCyg	144	38636
21-JUL-2009 05:29:30	50AlpCyg	19	38636
21-JUL-2009 05:34:38	5AlpCep	89	38636
21-JUL-2009 05:41:53	11BetCas	74	38636
21-JUL-2009 05:43:28	27GamCas	76	38636
21-JUL-2009 05:48:57	23GamPer	160	38636
21-JUL-2009 05:50:23	33AlpPer	35	38636
21-JUL-2009 05:53:26	26BetPer	79	38636
21-JUL-2009 05:56:32	44ZetPer	150	38636
21-JUL-2009 05:59:16	25EtaTau	146	38636
21-JUL-2009 06:07:59	92AlpCet	94	38636
21-JUL-2009 06:10:40	34GamEri	165	38636
21-JUL-2009 06:13:58	DSA1064	0	38636
21-JUL-2009 06:29:29	AlpPhe	84	38637
21-JUL-2009 06:34:50	BetGru	63	38637
21-JUL-2009 06:36:18	AlpGru	31	38637
21-JUL-2009 06:39:31	GamGru	172	38637
21-JUL-2009 06:57:11	53AlpAql	11	38637
21-JUL-2009 07:08:10	18DelCyg	144	38637

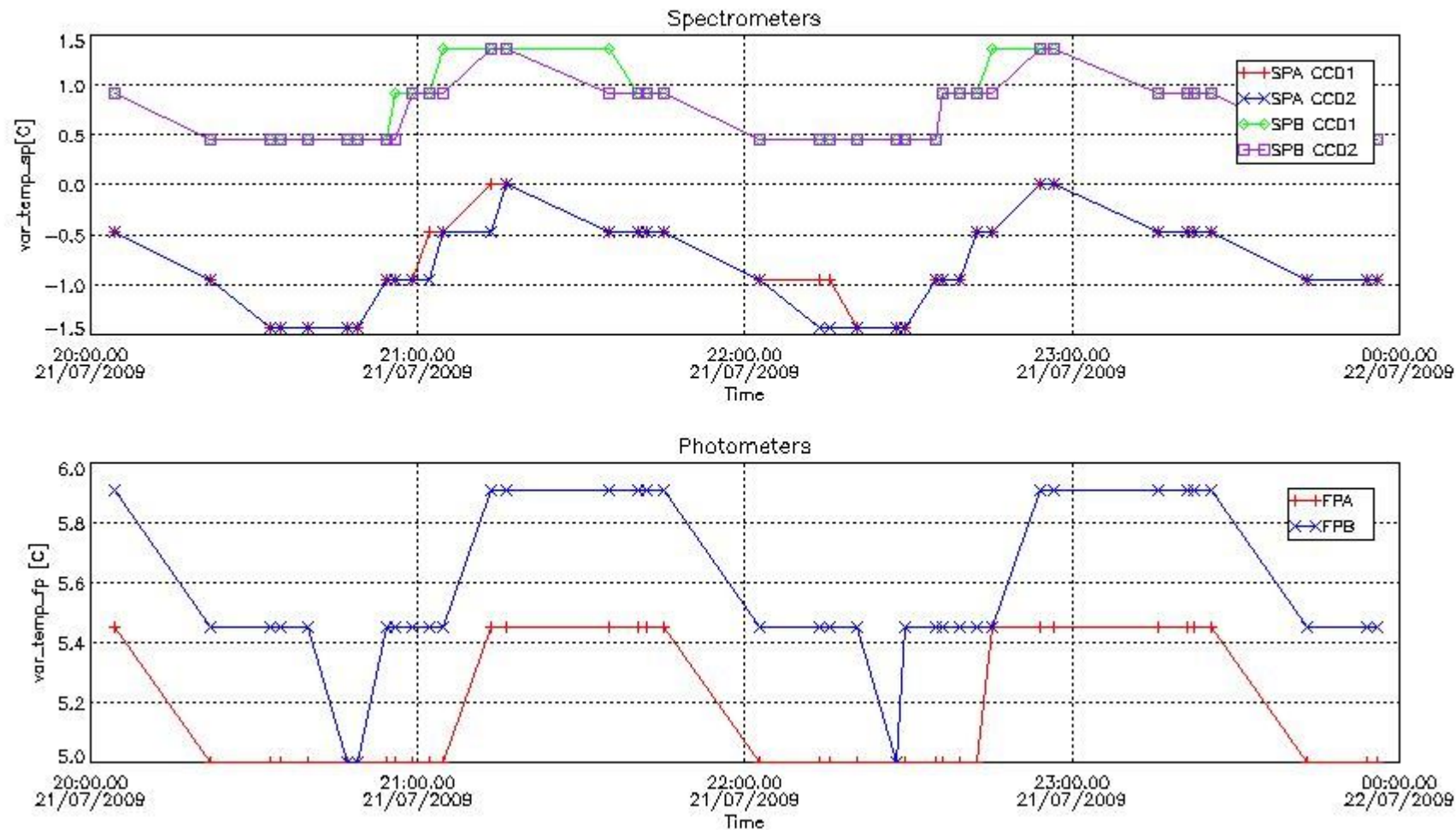
21-JUL-2009 07:10:06	50AlpCyg	19	38637
21-JUL-2009 07:15:14	5AlpCep	89	38637
21-JUL-2009 07:22:28	11BetCas	74	38637
21-JUL-2009 07:24:04	27GamCas	76	38637
21-JUL-2009 07:29:32	23GamPer	160	38637
21-JUL-2009 07:30:59	33AlpPer	35	38637
21-JUL-2009 07:34:01	26BetPer	79	38637
21-JUL-2009 07:37:08	44ZetPer	150	38637
21-JUL-2009 07:39:52	25EtaTau	146	38637
21-JUL-2009 07:48:36	92AlpCet	94	38637
21-JUL-2009 07:51:16	34GamEri	165	38637
21-JUL-2009 07:54:35	DSA1064	0	38637
21-JUL-2009 08:15:27	BetGru	63	38638
21-JUL-2009 08:16:54	AlpGru	31	38638
21-JUL-2009 08:20:07	GamGru	172	38638
21-JUL-2009 08:37:46	53AlpAql	11	38638
21-JUL-2009 13:57:35	5AlpCep	89	38641
21-JUL-2009 15:31:07	18DelCyg	144	38642

## 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_1PNPDE20090721_200424_000000482081_00014_38645_7012.N1	21-JUL-2009 20:04:24	Straylight	47.500	172	Gam Gru	3.0030	13100.	95	38645	No
2	GOM_TRA_1PNPDE20090721_202157_000000442081_00014_38645_7013.N1	21-JUL-2009 20:21:57	Bright	44.000	11	53Alp Aql	0.76500	8000.0	88	38645	No
3	GOM_TRA_1PNPDE20090721_203255_000000412081_00014_38645_7014.N1	21-JUL-2009 20:32:55	Bright	40.500	144	18Del Cyg	2.8600	11000.	81	38645	No
4	GOM_TRA_1PNPDE20090721_203448_000000482081_00014_38645_7015.N1	21-JUL-2009 20:34:48	Bright	48.000	19	50Alp Cyg	1.2460	10500.	96	38645	No
5	GOM_TRA_1PNPDE20090721_203958_000000392081_00014_38645_7016.N1	21-JUL-2009 20:39:58	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	38645	No
6	GOM_TRA_1PNPDE20090721_204710_000000492081_00014_38645_7017.N1	21-JUL-2009 20:47:10	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	38645	No
7	GOM_TRA_1PNPDE20090721_204847_000000472081_00014_38645_7018.N1	21-JUL-2009 20:48:47	Bright	47.000	76	27Gam Cas	2.3000	30000.	94	38645	No
8	GOM_TRA_1PNPDE20090721_205419_000000432081_00014_38645_7019.N1	21-JUL-2009 20:54:19	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	38645	No
9	GOM_TRA_1PNPDE20090721_205546_000000432081_00014_38645_7020.N1	21-JUL-2009 20:55:46	Bright	43.000	35	33Alp Per	1.7950	6250.0	86	38645	No
10	GOM_TRA_1PNPDE20090721_205849_000000522081_00014_38645_7021.N1	21-JUL-2009 20:58:49	Bright	52.000	79	26Bet Per	2.3100	13100.	104	38645	No
11	GOM_TRA_1PNPDE20090721_210158_000000482081_00014_38645_7022.N1	21-JUL-2009 21:01:58	Twilight	47.500	150	44Zet Per	2.8900	28000.	95	38645	No
12	GOM_TRA_1PNPDE20090721_210443_000000472081_00014_38645_7023.N1	21-JUL-2009 21:04:43	Twilight	46.500	146	25Eta Tau	2.8730	15200.	93	38645	No
13	GOM_TRA_1PNPDE20090721_211332_000000712081_00014_38645_7156.N1	21-JUL-2009 21:13:32	Dark	71.000	94	92Alp Cet	2.5260	3100.0	142	38645	No
14	GOM_TRA_1PNPDE20090721_211610_000000482081_00014_38645_7157.N1	21-JUL-2009 21:16:10	Dark	48.000	165	34Gam Eri	2.9500	3200.0	96	38645	No
15	GOM_TRA_1PNPDE20090721_213504_000000552081_00015_38646_7158.N1	21-JUL-2009 21:35:04	Straylight	55.000	84	Alp Phe	2.3970	4500.0	110	38646	No
16	GOM_TRA_1PNPDE20090721_214021_000000602081_00015_38646_7159.N1	21-JUL-2009 21:40:21	Straylight	60.000	63	Bet Gru	2.1500	2800.0	120	38646	No
17	GOM_TRA_1PNPDE20090721_214148_000000462081_00015_38646_7160.N1	21-JUL-2009 21:41:48	Straylight	46.000	31	Alp Gru	1.7340	15200.	92	38646	No
18	GOM_TRA_1PNPDE20090721_214501_000000482081_00015_38646_7161.N1	21-JUL-2009 21:45:01	Straylight	48.000	172	Gam Gru	3.0030	13100.	96	38646	No
19	GOM_TRA_1PNPDE20090721_220233_000000412081_00015_38646_7162.N1	21-JUL-2009 22:02:33	Bright	41.000	11	53Alp Aql	0.76500	8000.0	82	38646	No
20	GOM_TRA_1PNPDE20090721_221331_000000402081_00015_38646_7163.N1	21-JUL-2009 22:13:31	Bright	39.500	144	18Del Cyg	2.8600	11000.	79	38646	No
21	GOM_TRA_1PNPDE20090721_221524_000000472081_00015_38646_7164.N1	21-JUL-2009 22:15:24	Bright	46.500	19	50Alp Cyg	1.2460	10500.	93	38646	No
22	GOM_TRA_1PNPDE20090721_222033_000000432081_00015_38646_7165.N1	21-JUL-2009 22:20:33	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	38646	No
23	GOM_TRA_1PNPDE20090721_222745_000000742081_00015_38646_7166.N1	21-JUL-2009 22:27:45	Bright	74.000	74	11Bet Cas	2.2680	6600.0	148	38646	No
24	GOM_TRA_1PNPDE20090721_222922_000000472081_00015_38646_7167.N1	21-JUL-2009 22:29:22	Bright	46.500	76	27Gam Cas	2.3000	30000.	93	38646	No
25	GOM_TRA_1PNPDE20090721_223455_000000642081_00015_38646_7168.N1	21-JUL-2009 22:34:55	Bright	64.000	160	23Gam Per	2.9300	4700.0	128	38646	No
26	GOM_TRA_1PNPDE20090721_223622_000000452081_00015_38646_7169.N1	21-JUL-2009 22:36:22	Bright	45.000	35	33Alp Per	1.7950	6250.0	90	38646	No
27	GOM_TRA_1PNPDE20090721_223925_000000512081_00015_38646_7170.N1	21-JUL-2009 22:39:25	Bright	51.000	79	26Bet Per	2.3100	13100.	102	38646	No
28	GOM_TRA_1PNPDE20090721_224234_000000452081_00015_38646_7171.N1	21-JUL-2009 22:42:34	Twilight	44.500	150	44Zet Per	2.8900	28000.	89	38646	No
29	GOM_TRA_1PNPDE20090721_224519_000000442081_00015_38646_7172.N1	21-JUL-2009 22:45:19	Twilight	43.500	146	25Eta Tau	2.8730	15200.	87	38646	No
30	GOM_TRA_1PNPDE20090721_225409_000000632081_00015_38646_7173.N1	21-JUL-2009 22:54:09	Dark	62.500	94	92Alp Cet	2.5260	3100.0	125	38646	No
31	GOM_TRA_1PNPDE20090721_225646_000000492081_00015_38646_7316.N1	21-JUL-2009 22:56:46	Dark	49.000	165	34Gam Eri	2.9500	3200.0	98	38646	No
32	GOM_TRA_1PNPDE20090721_231541_000000562081_00016_38647_7317.N1	21-JUL-2009 23:15:41	Straylight	56.000	84	Alp Phe	2.3970	4500.0	112	38647	No
33	GOM_TRA_1PNPDE20090721_232058_000000622081_00016_38647_7318.N1	21-JUL-2009 23:20:58	Straylight	61.500	63	Bet Gru	2.1500	2800.0	123	38647	No
34	GOM_TRA_1PNPDE20090721_232224_000000462081_00016_38647_7319.N1	21-JUL-2009 23:22:24	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	38647	No
35	GOM_TRA_1PNPDE20090721_232537_000000462081_00016_38647_7320.N1	21-JUL-2009 23:25:37	Straylight	46.000	172	Gam Gru	3.0030	13100.	92	38647	No
36	GOM_TRA_1PNPDE20090721_234308_000000432081_00016_38647_7321.N1	21-JUL-2009 23:43:08	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	38647	No

37	GOM_TRA_1PNPDE20090721_235406_000000372081_00016_38647_7322.N1	21-JUL-2009 23:54:06	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	38647	No
38	GOM_TRA_1PNPDE20090721_235559_000000472081_00016_38647_7323.N1	21-JUL-2009 23:55:59	Bright	47.000	19	50Alp Cyg	1.2460	10500.	94	38647	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.

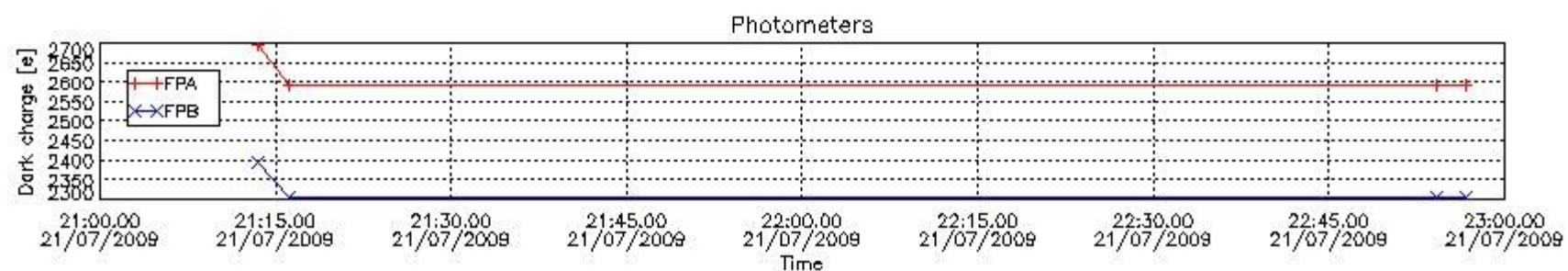
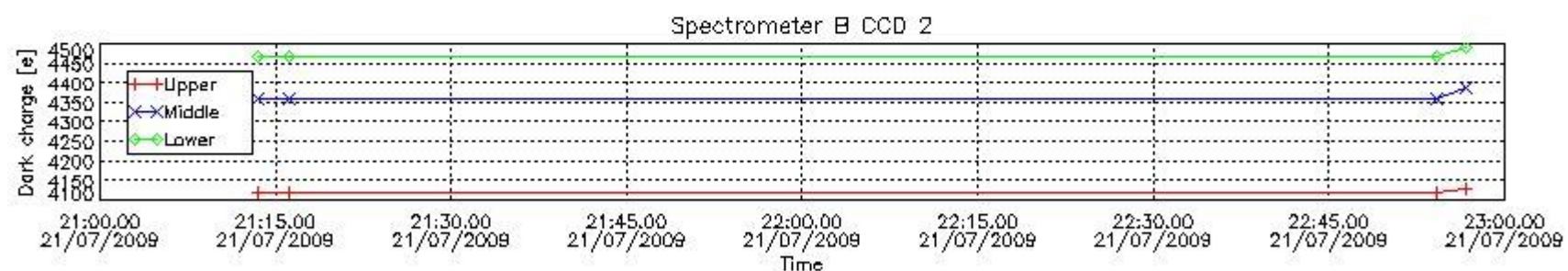
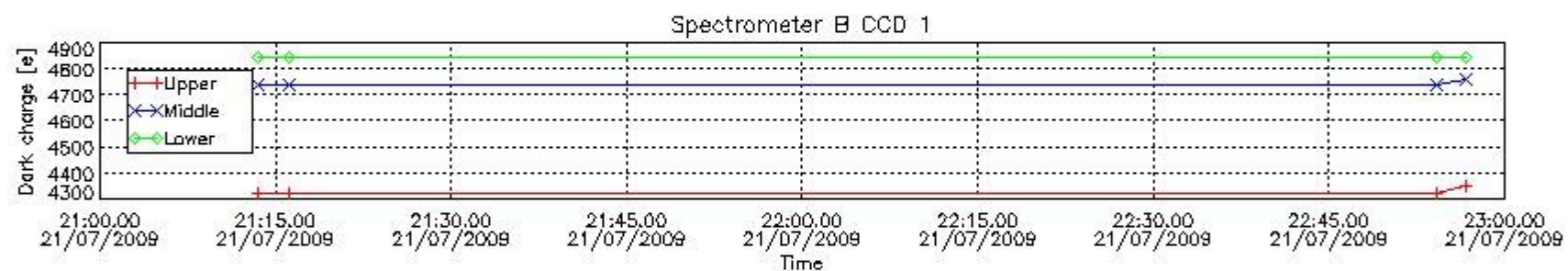
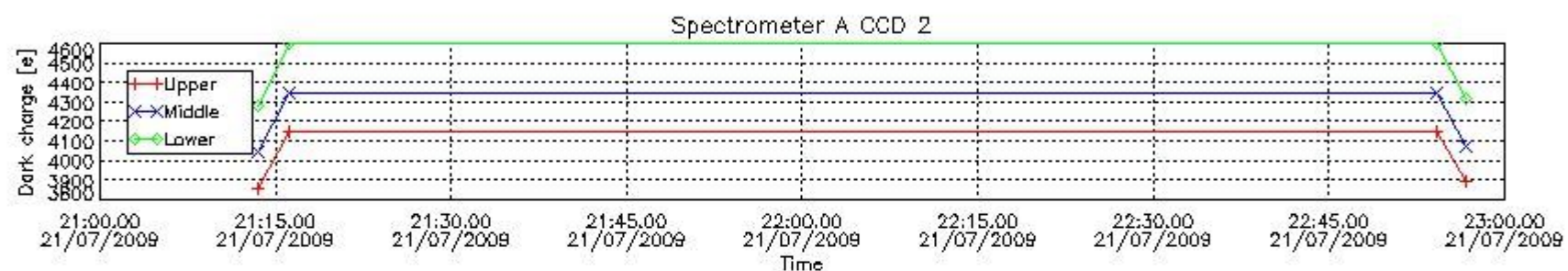
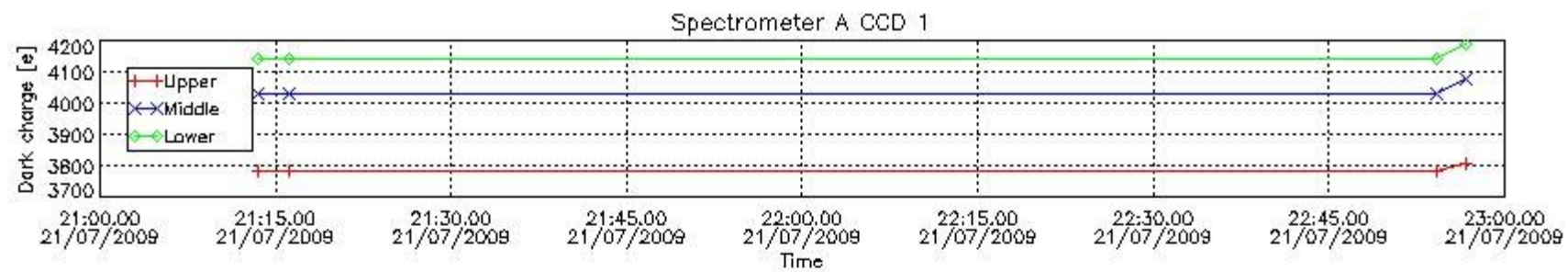
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090721_200424_000000482081_00014_38645_7012.N1	DC map used
GOM_TRA_1PNPDE20090721_202157_000000442081_00014_38645_7013.N1	DC map used
GOM_TRA_1PNPDE20090721_203255_000000412081_00014_38645_7014.N1	DC map used
GOM_TRA_1PNPDE20090721_203448_000000482081_00014_38645_7015.N1	DC map used
GOM_TRA_1PNPDE20090721_203958_000000392081_00014_38645_7016.N1	DC map used
GOM_TRA_1PNPDE20090721_204710_000000492081_00014_38645_7017.N1	DC map used
GOM_TRA_1PNPDE20090721_204847_000000472081_00014_38645_7018.N1	DC map used
GOM_TRA_1PNPDE20090721_205419_000000432081_00014_38645_7019.N1	DC map used



GOM_TRA_1PNPDE20090721_205546_000000432081_00014_38645_7020.N1	DC map used
GOM_TRA_1PNPDE20090721_205849_000000522081_00014_38645_7021.N1	DC map used
GOM_TRA_1PNPDE20090721_210158_000000482081_00014_38645_7022.N1	DC map used
GOM_TRA_1PNPDE20090721_210443_000000472081_00014_38645_7023.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

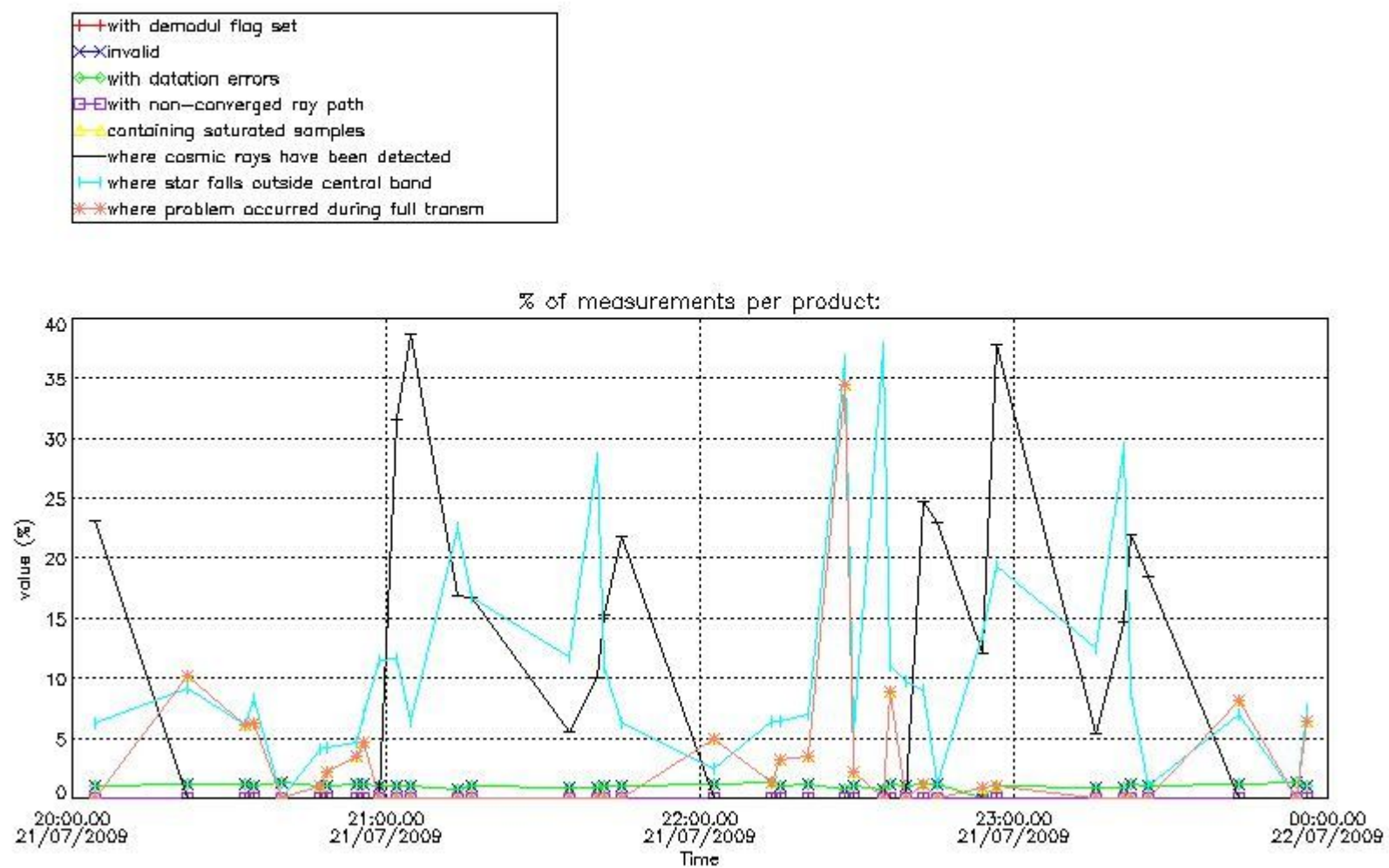
In this section it is presented the modulation information extracted from the pcd (product confidence data)

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:

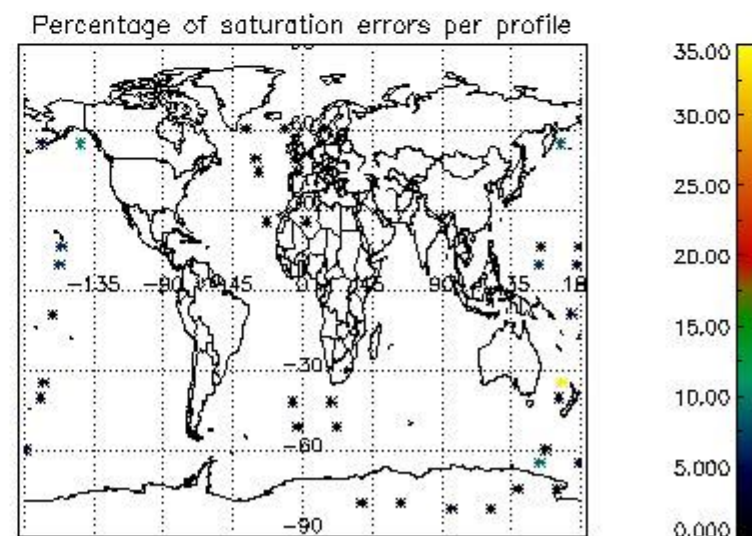
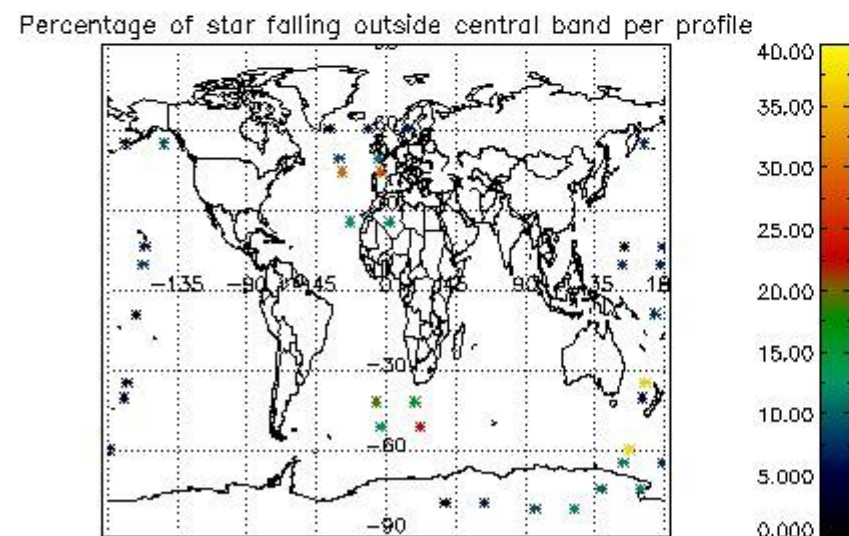
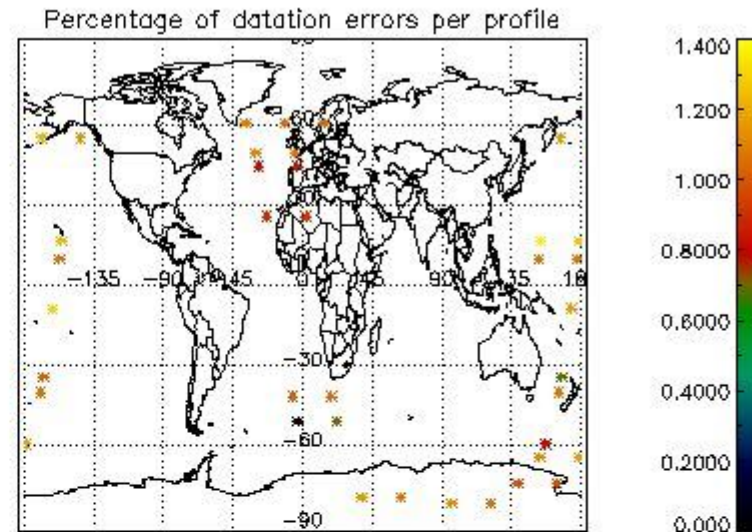
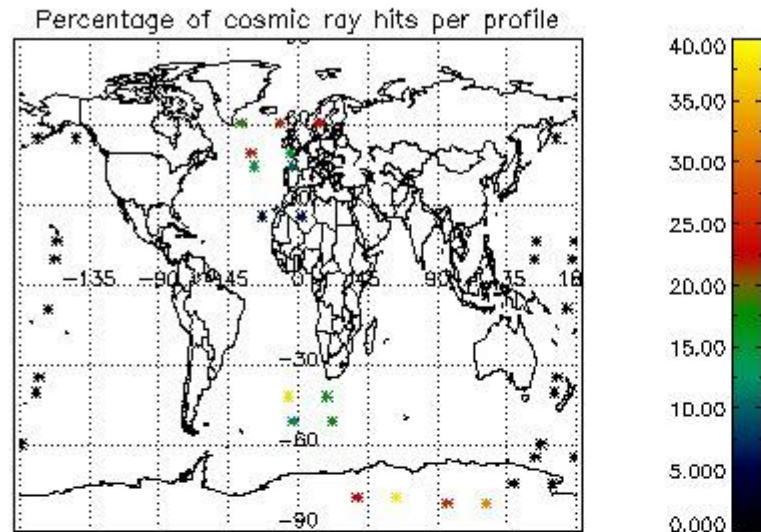
At least one measurement with demodulation flag set:	26.3158 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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)

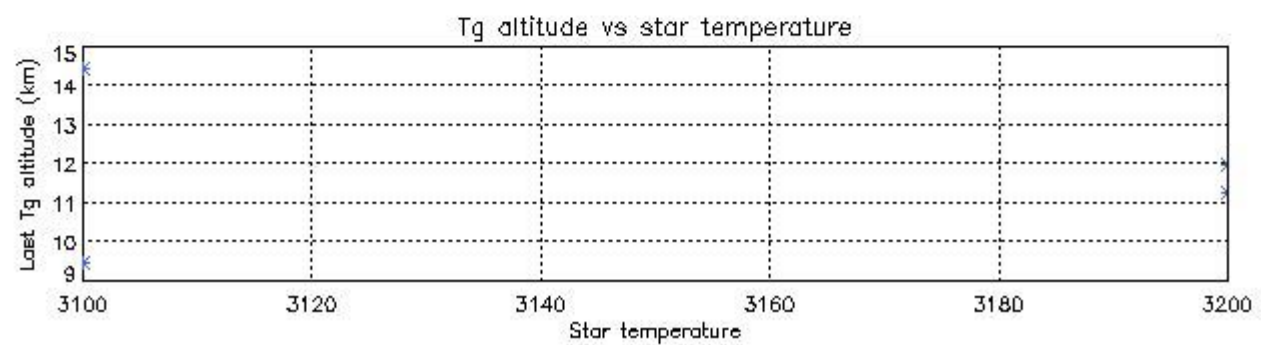
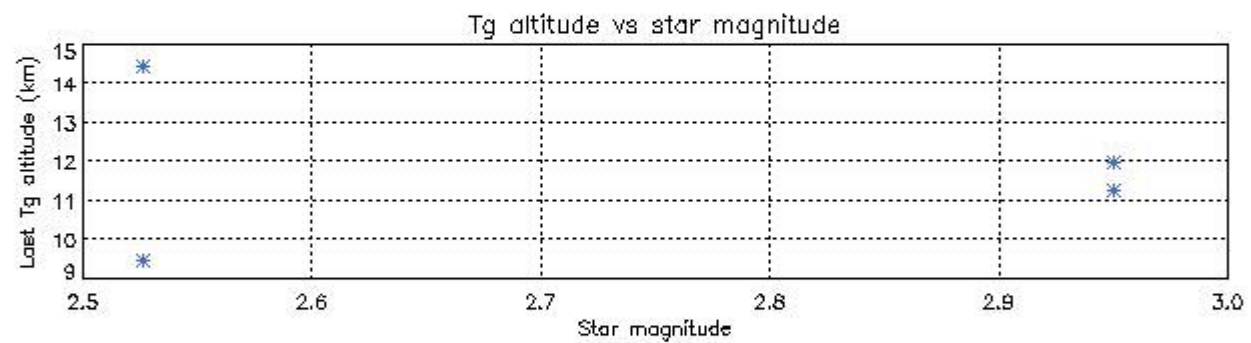
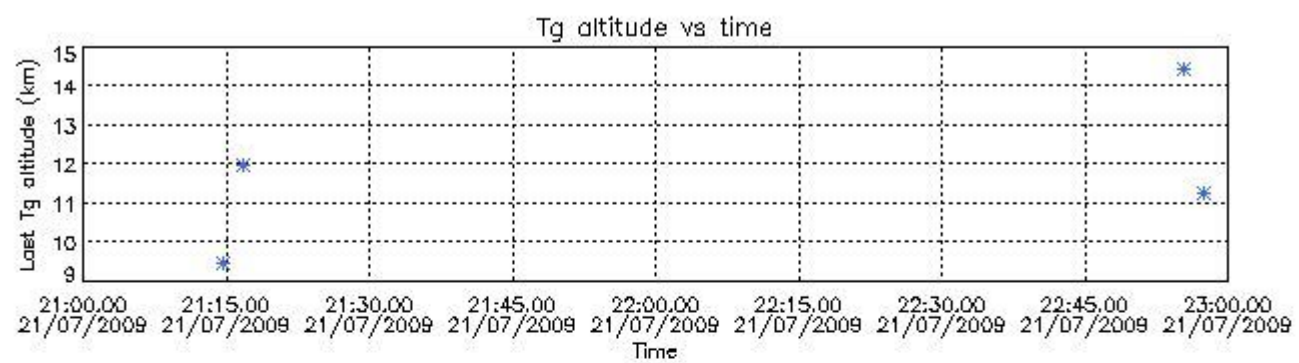
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.787	18.925	19.620
St. deviation:	2.0626	6.0654	2.9785
Maximum:	14.427	27.836	21.726
Minimum:	9.4435	3.2680	17.514
Number of data:	4.0000	21.000	2.0000

### 6.2 Plot for DARK limb products

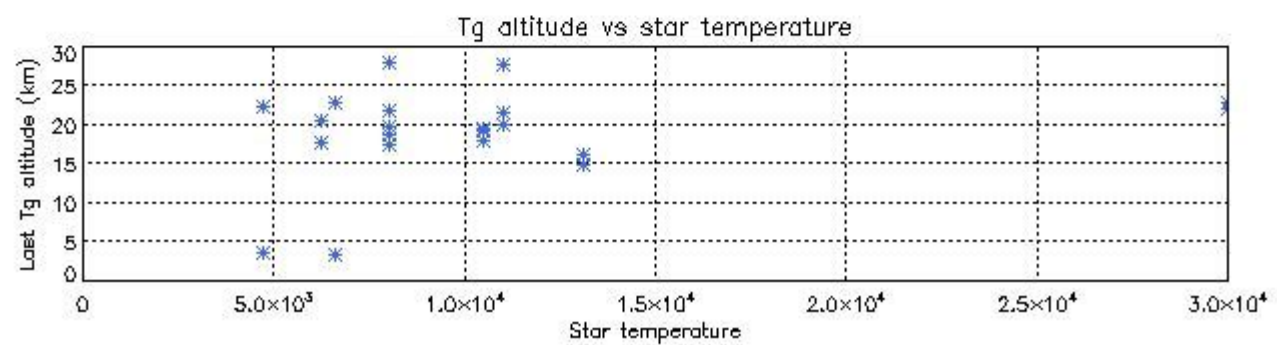
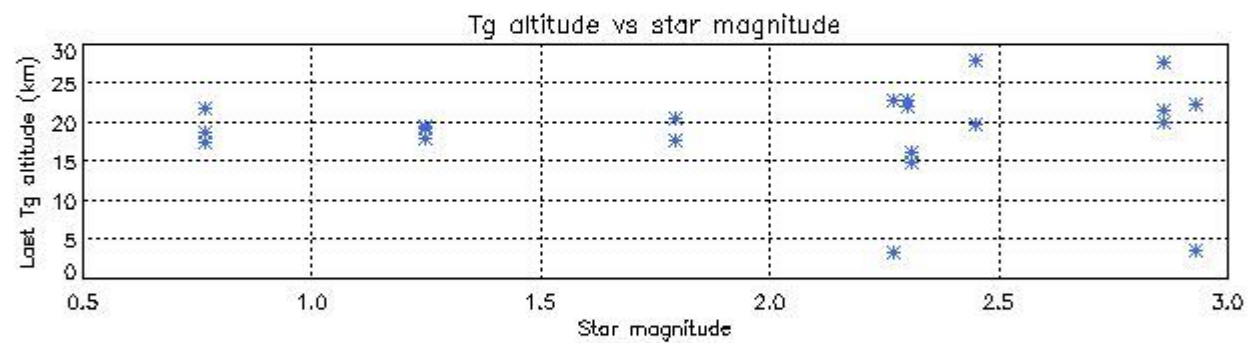
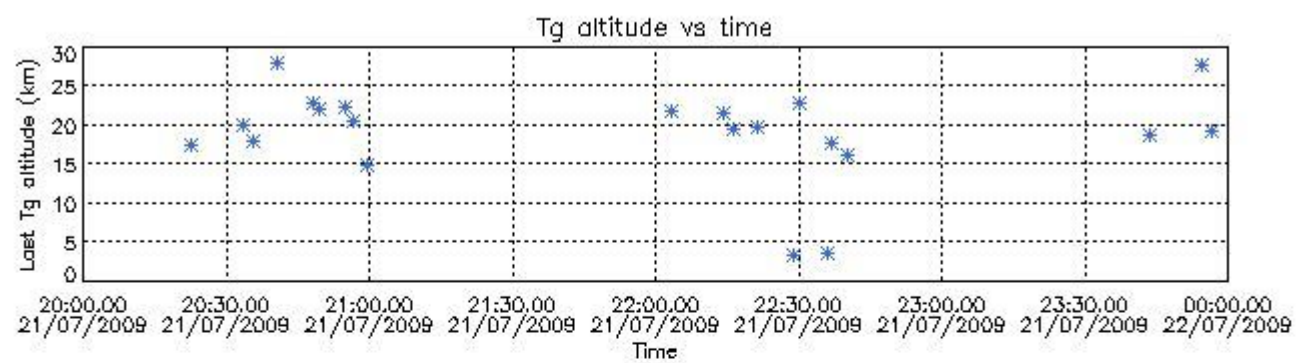


Tangent altitude at which the star is lost



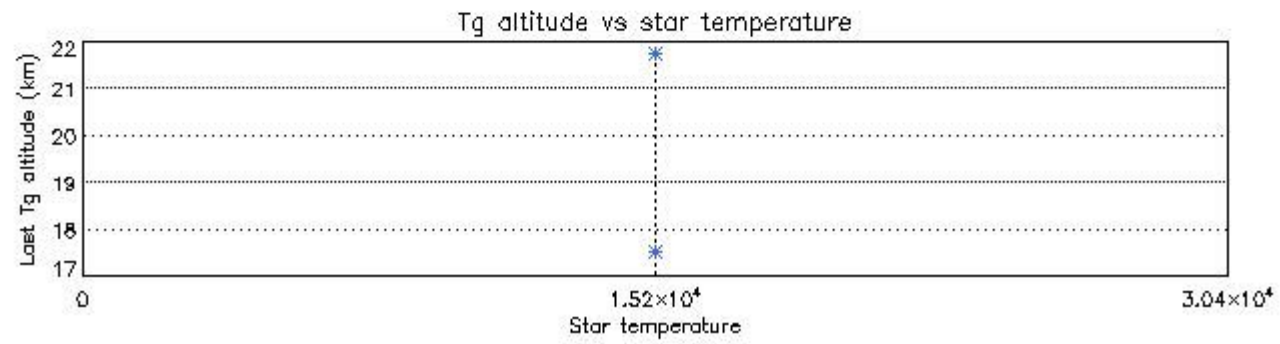
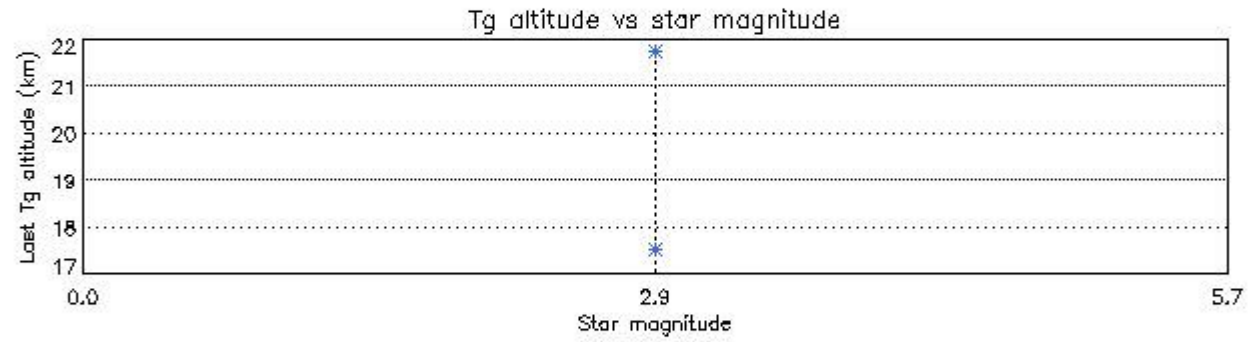
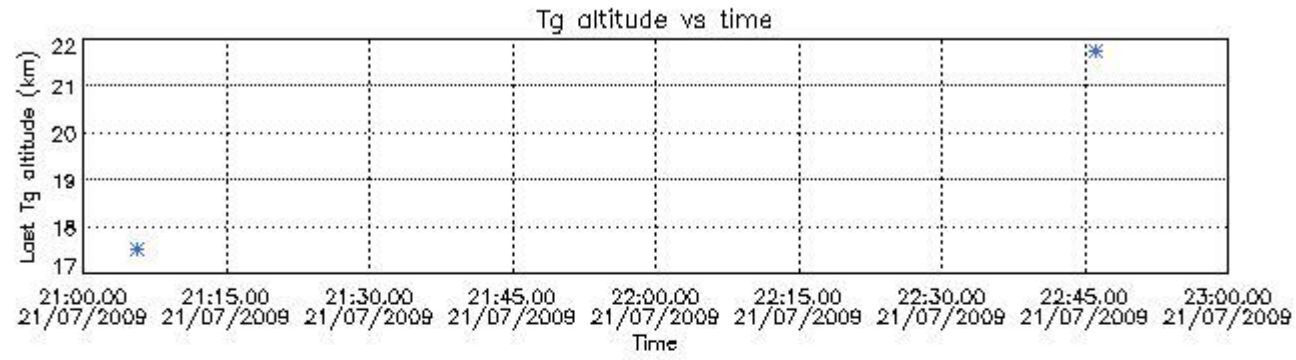
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost



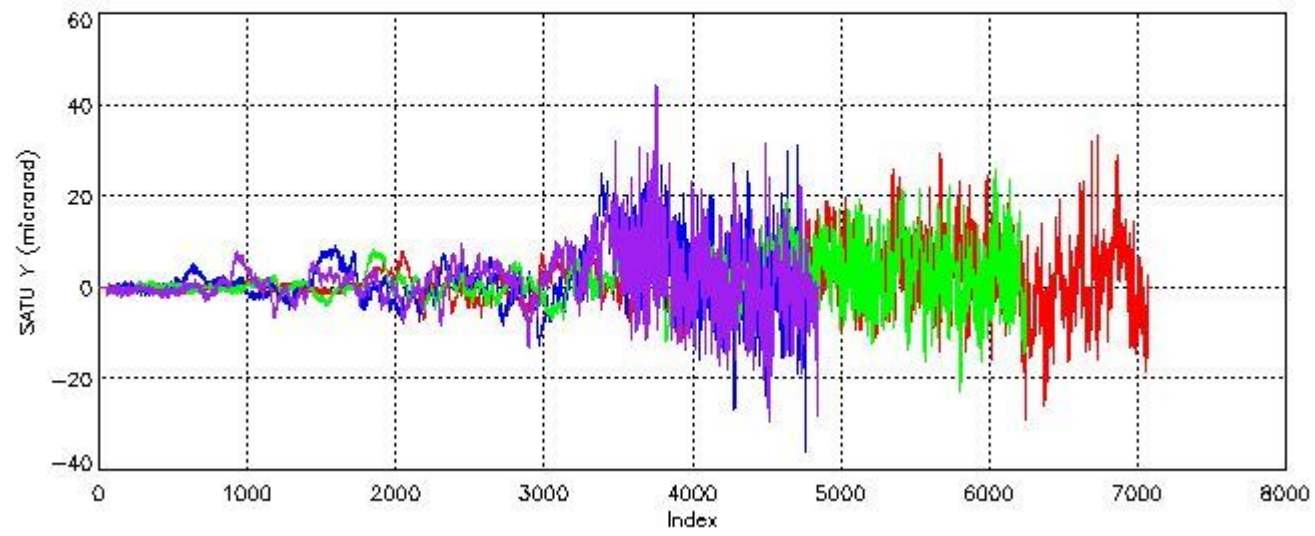
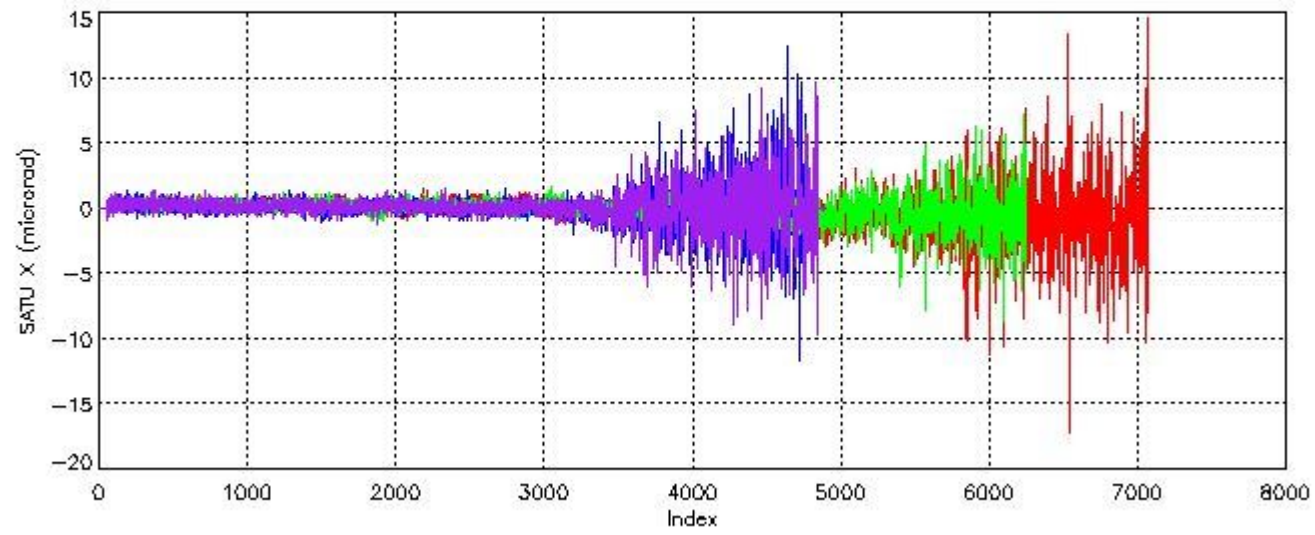
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.23918	0.16221	0.27694	-0.43185
St. deviation:	0.29619	1.1783	0.71256	1.1852
Maximum:	1.4000	8.0000	4.9000	6.2000
Minimum:	-0.90000	-3.0000	-4.8000	-7.7000

Number of data:	4700.0	4700.0	21300.	21300.
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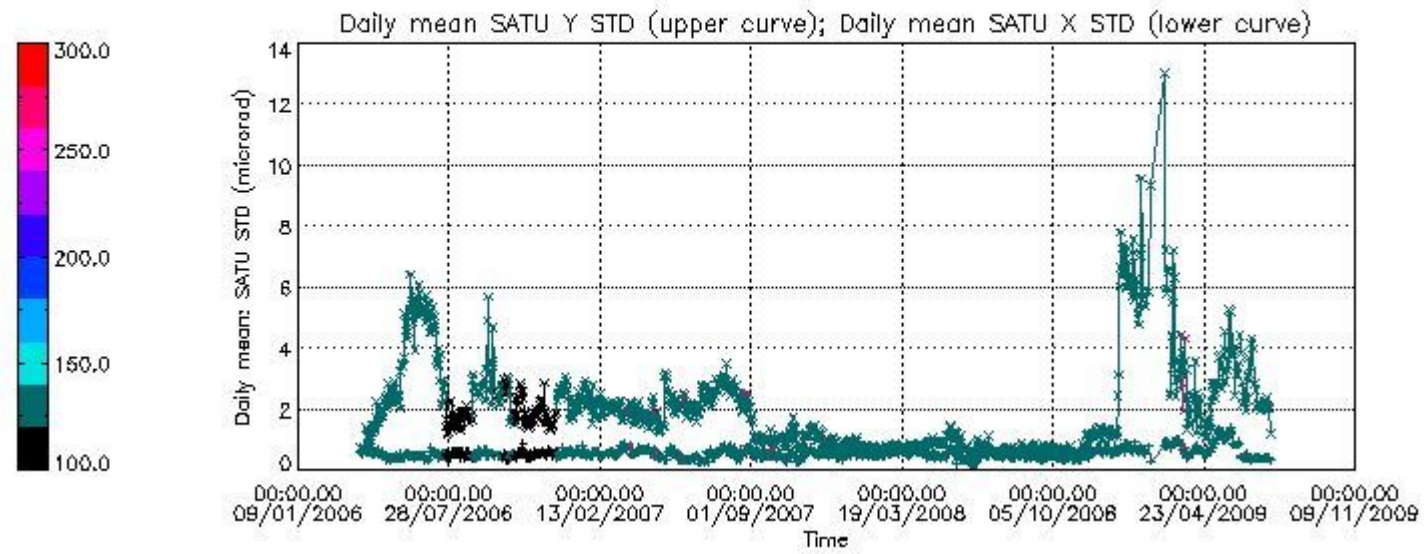
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

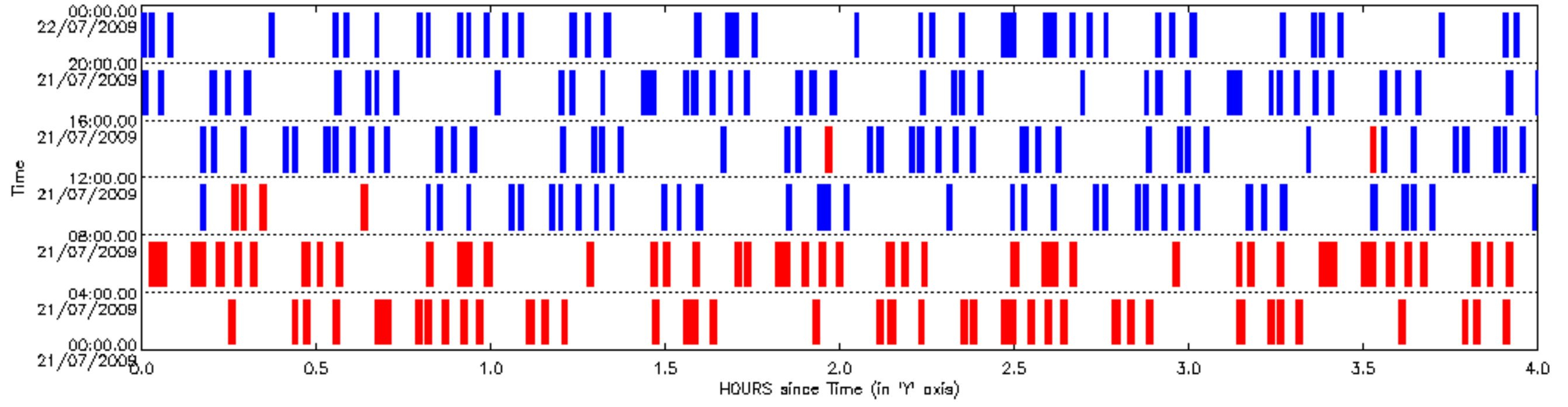
Lower curve: STD of SATU X axis



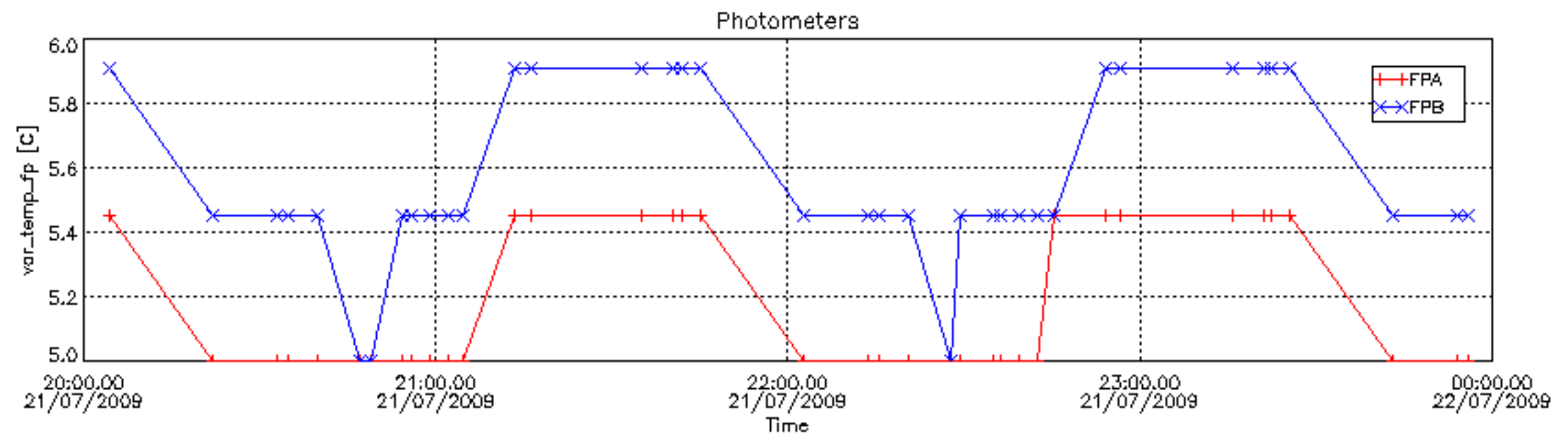
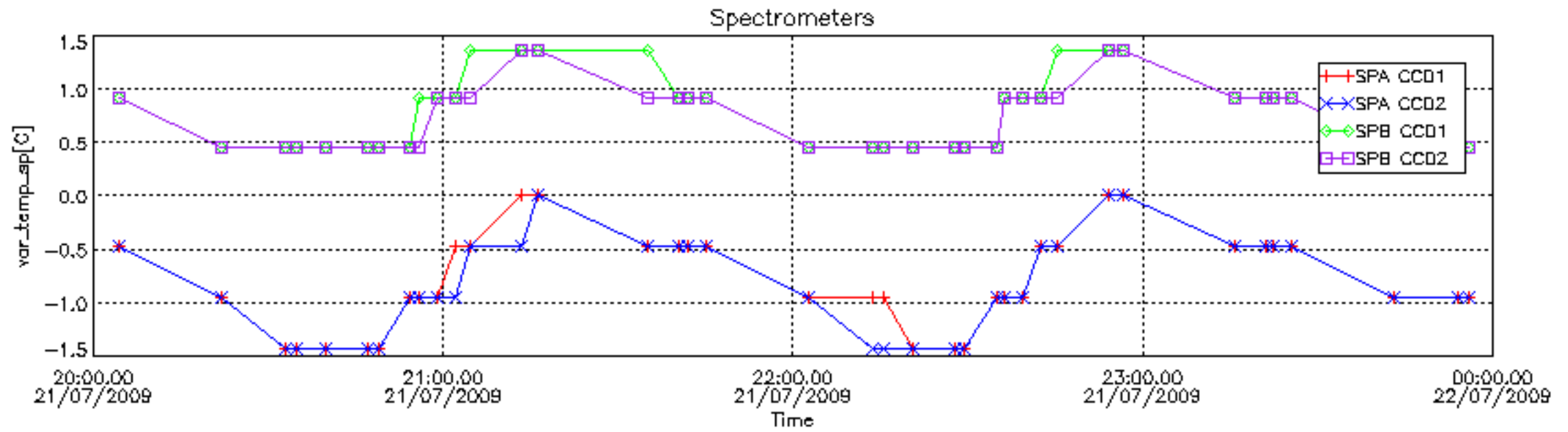
### 8. Auxiliary Data Files used for the production reported in section 2.4

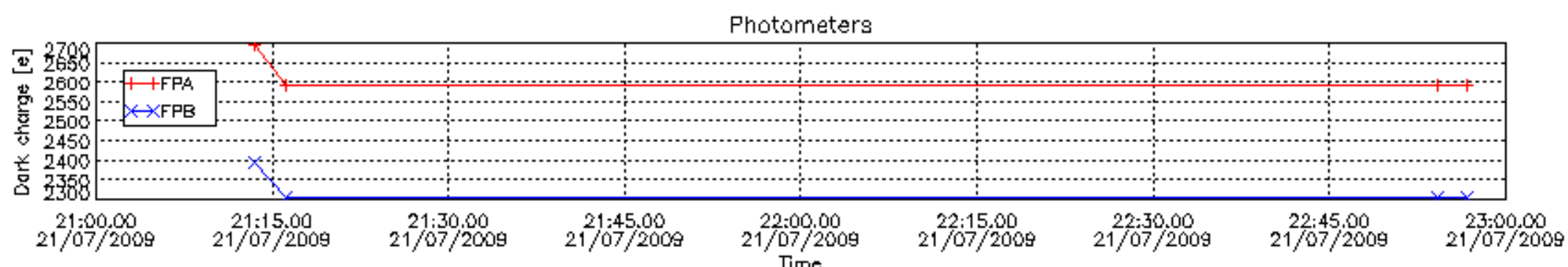
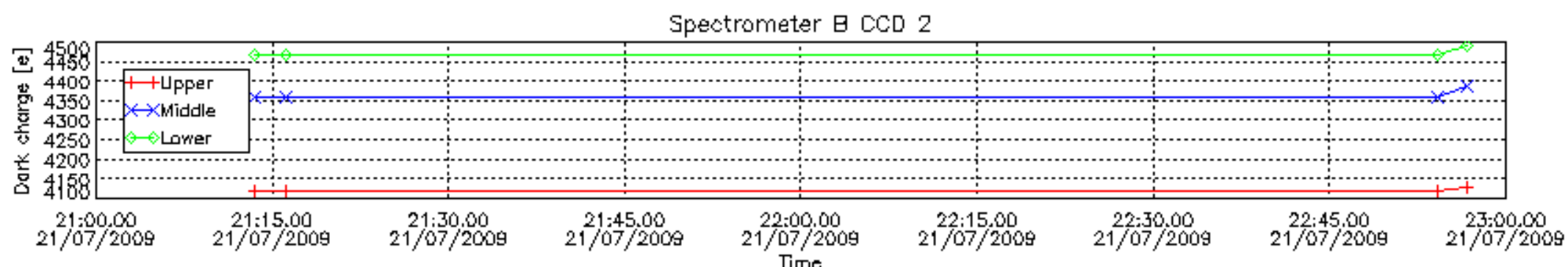
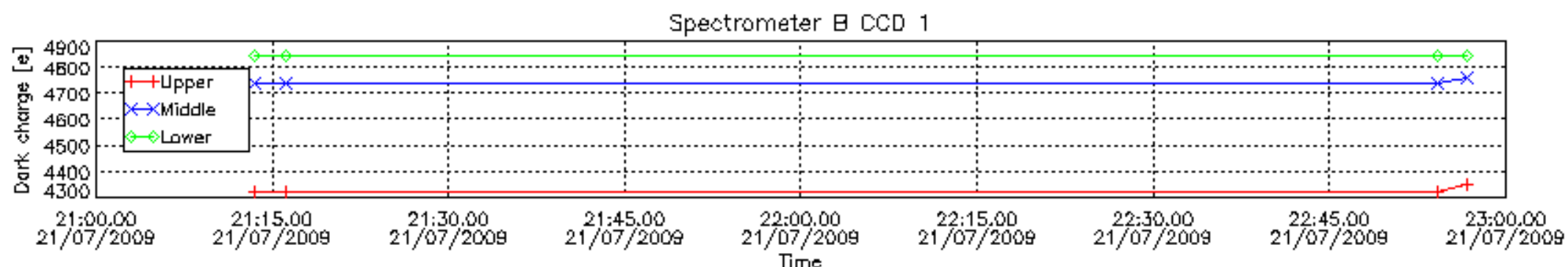
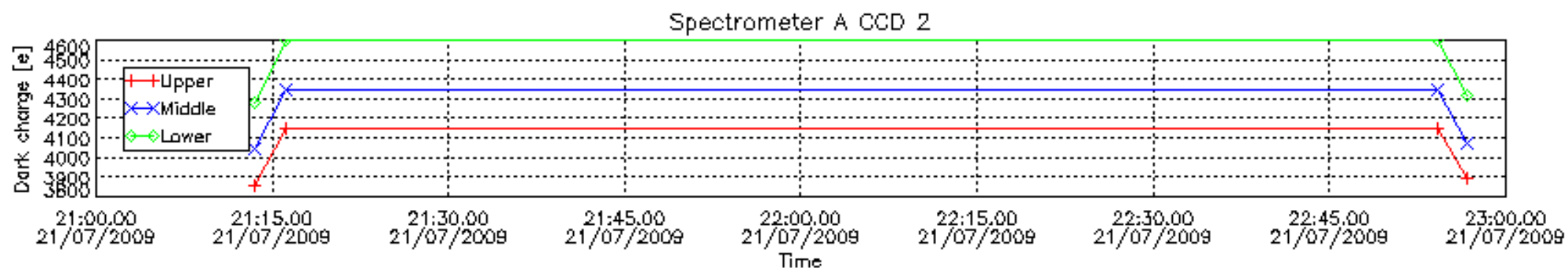
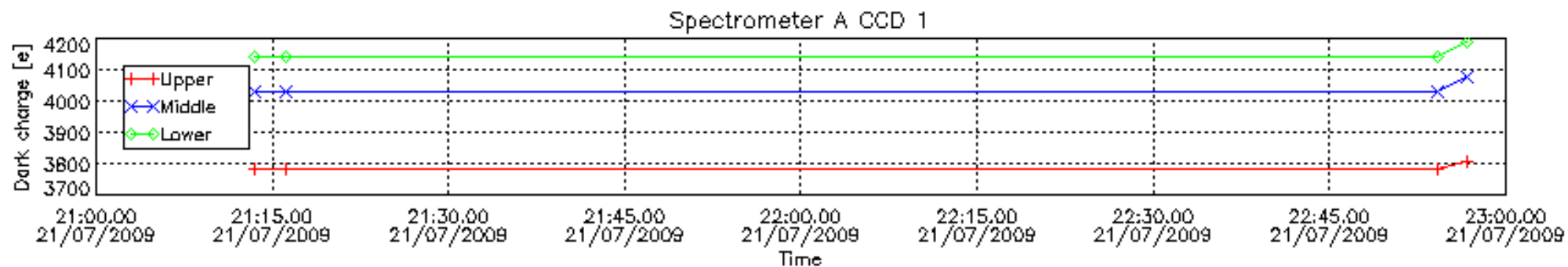
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

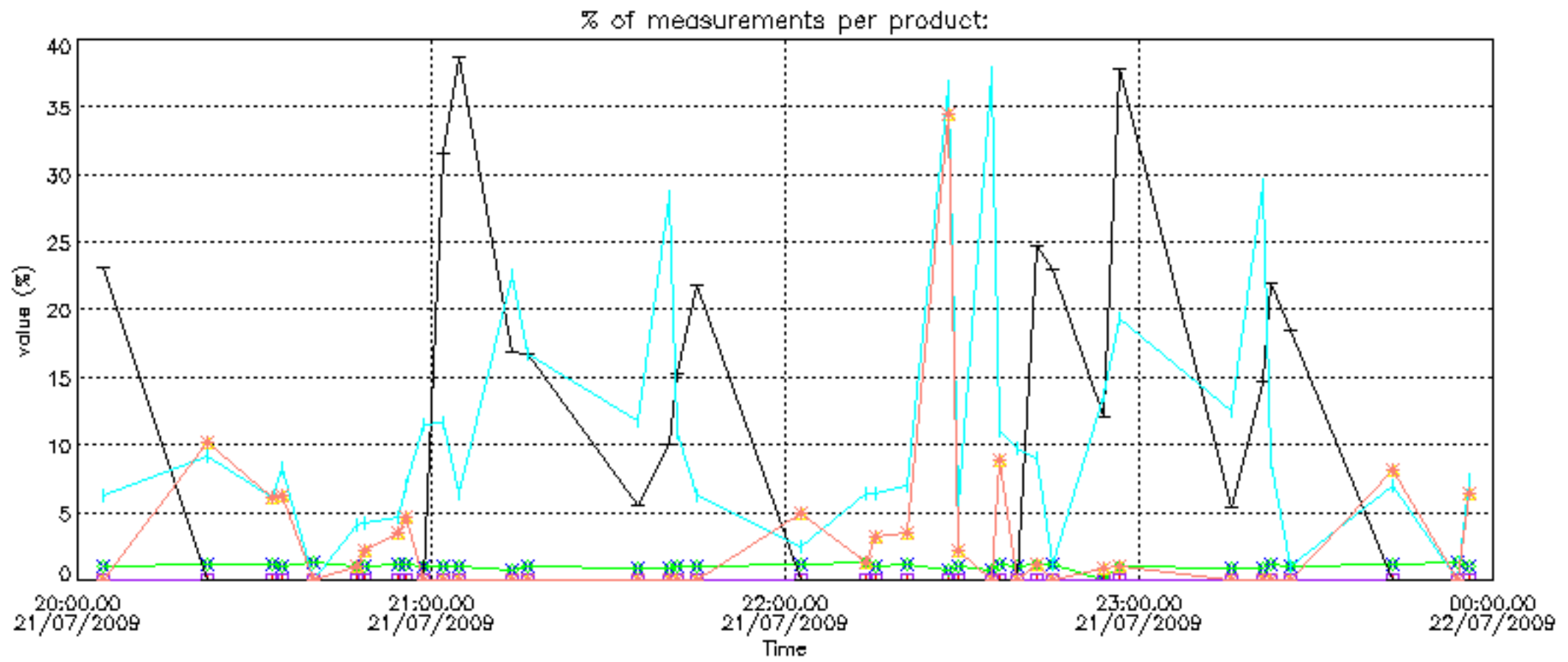
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090714_102335_20090712_000000_20100101_000000	1	21-JUL-2009 20:04:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-JUL-2009 20:04:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-JUL-2009 20:04:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-JUL-2009 20:04:24
ECMWF_FILE	AUX_ECF_AXNECM20090721_064111_20090721_150000_20090722_030000	1	21-JUL-2009 20:04:24
ECMWF_FILE	AUX_ECF_AXNECM20090721_064112_20090721_210000_20090722_090000	13	21-JUL-2009 21:13:32
OPTIONAL_ECMWF_FILE	MISSING	1	21-JUL-2009 20:04:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090721_195807_000041442081_00014_38645_8396.N1	1	21-JUL-2009 20:04:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090721_211230_000057382081_00014_38645_8397.N1	31	21-JUL-2009 22:56:46





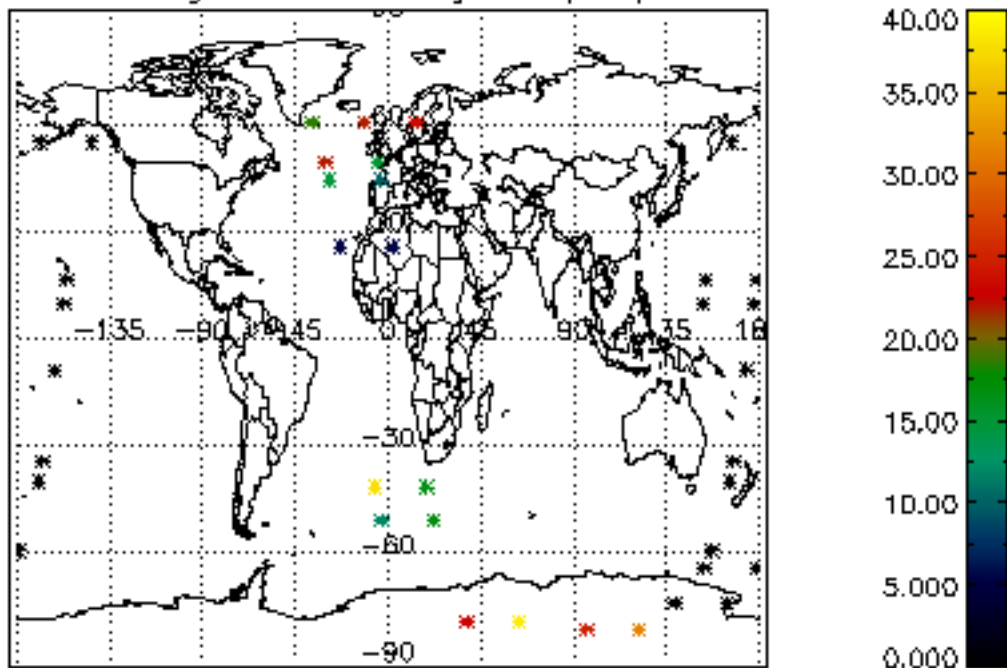




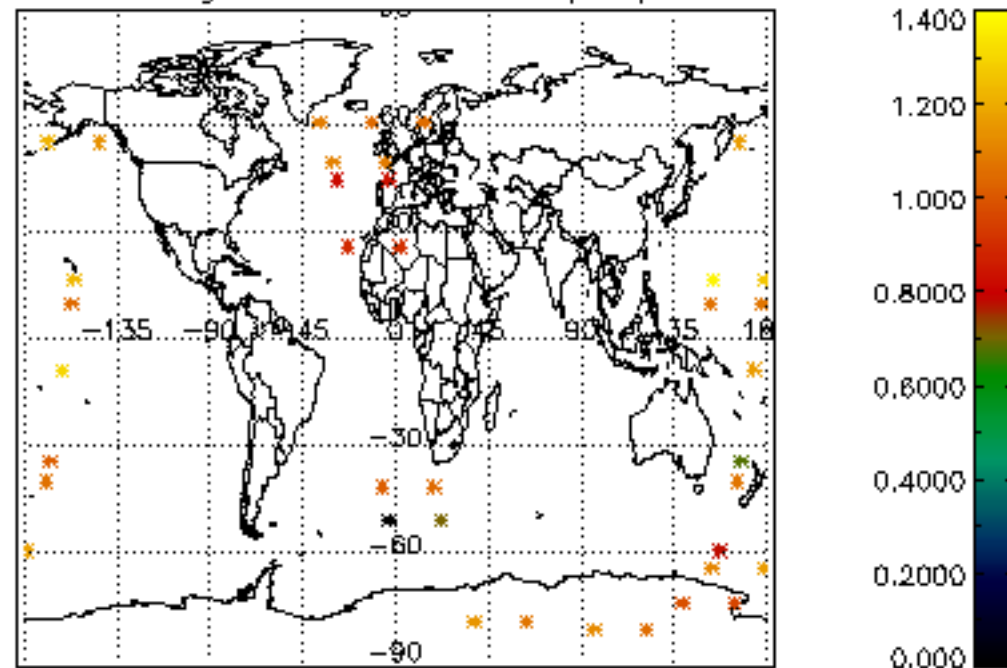




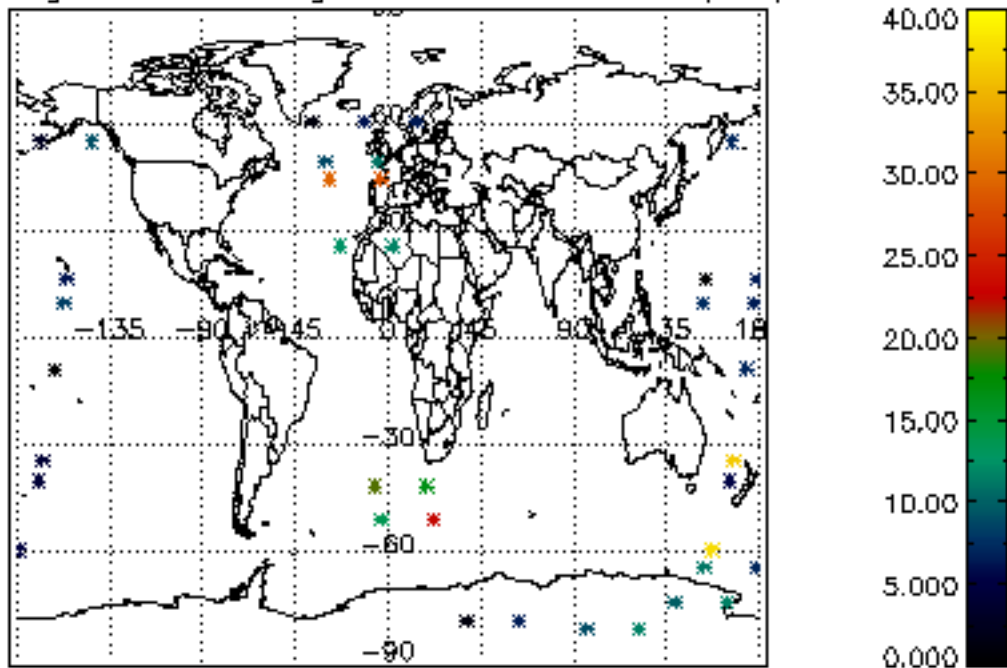
Percentage of cosmic ray hits per profile



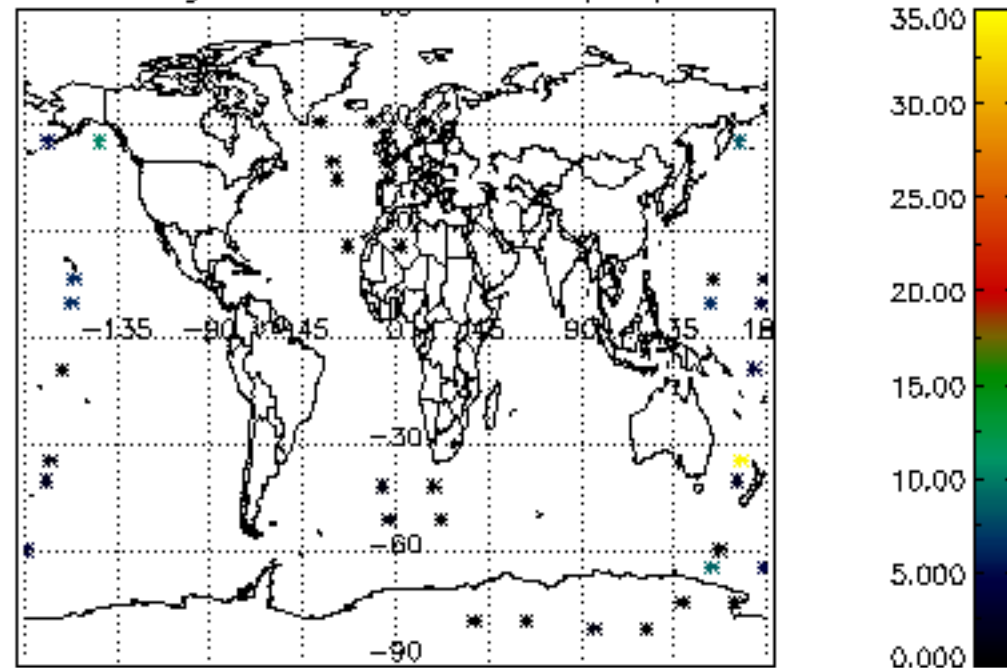
Percentage of datation errors per profile



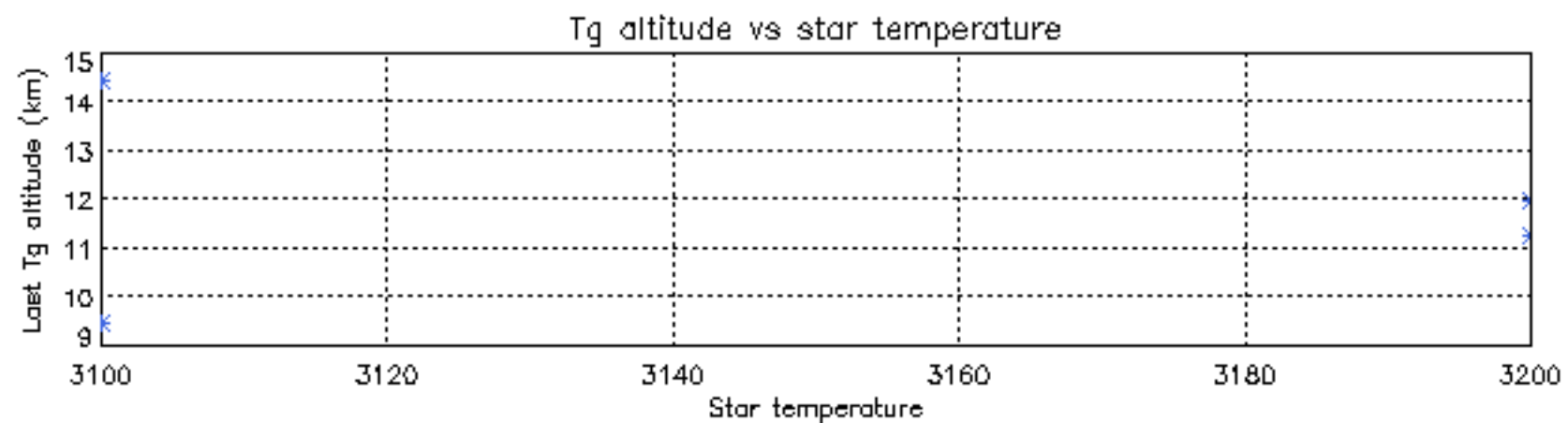
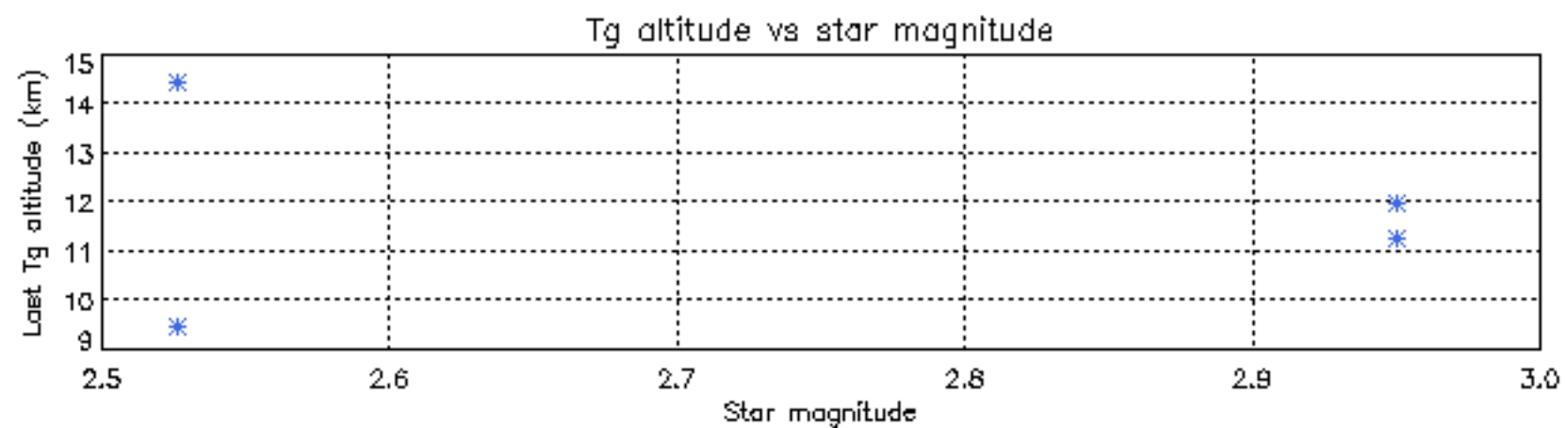
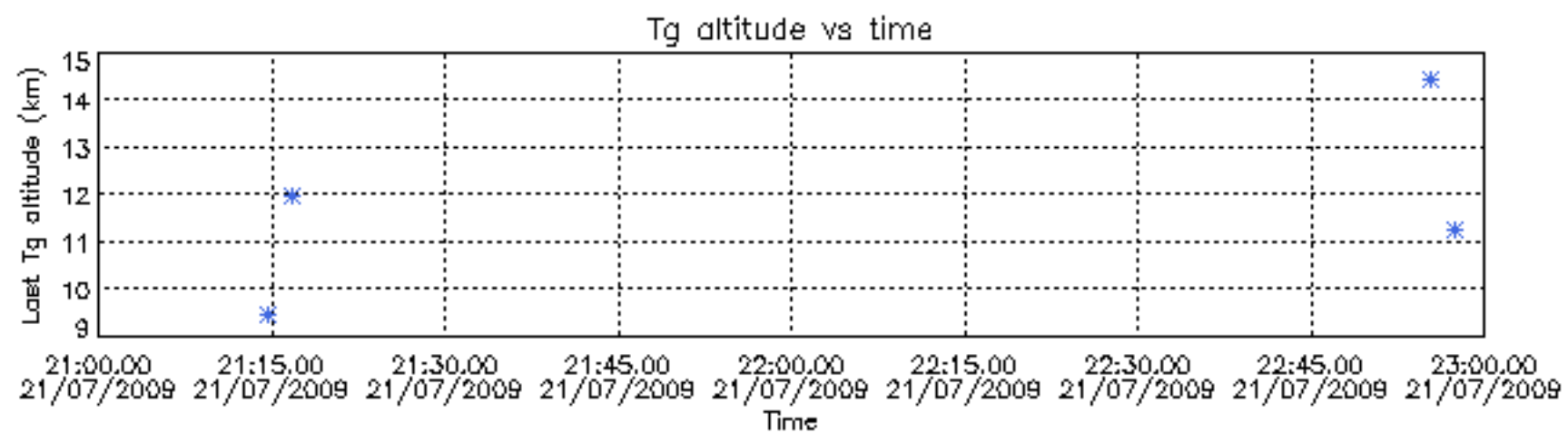
Percentage of star falling outside central band per profile



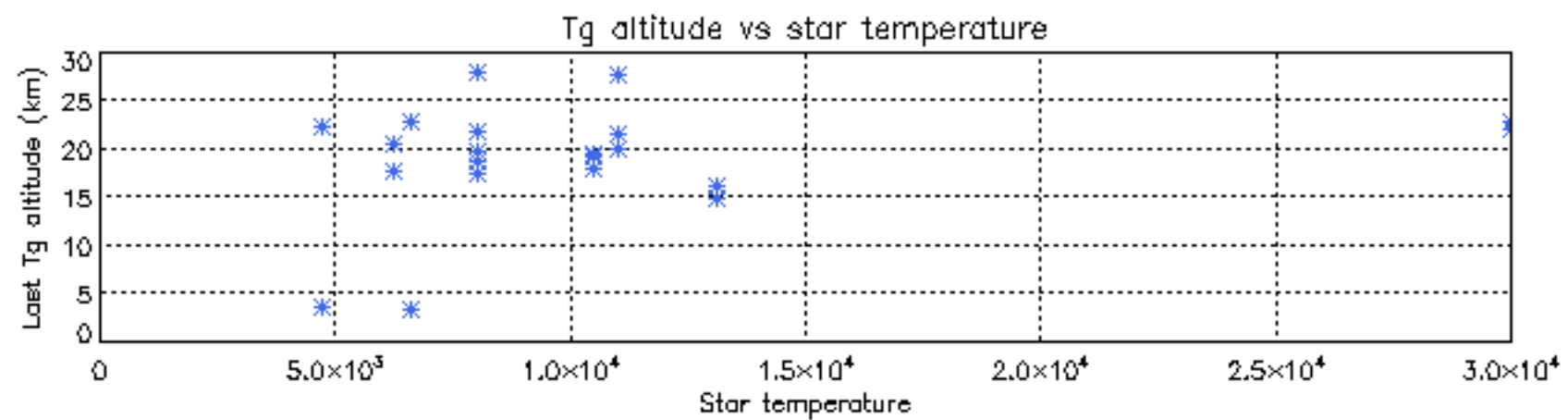
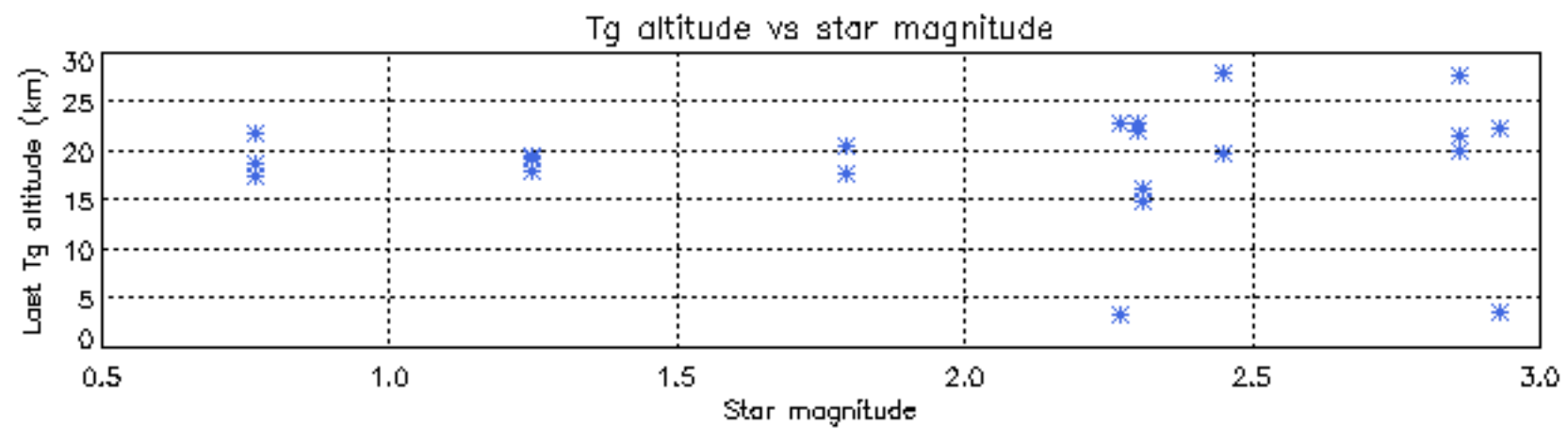
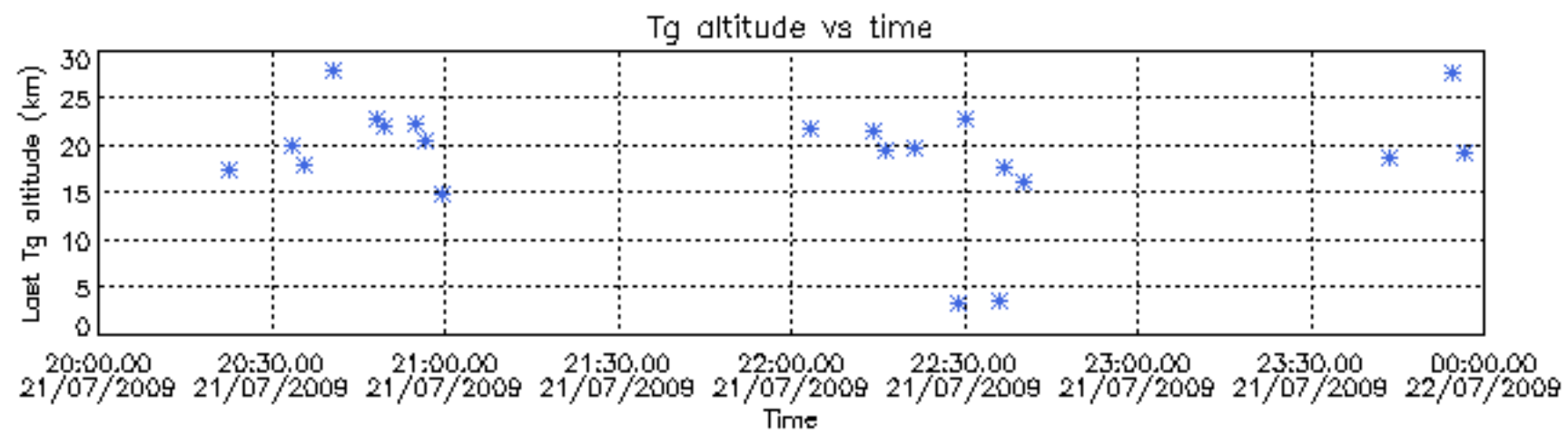
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

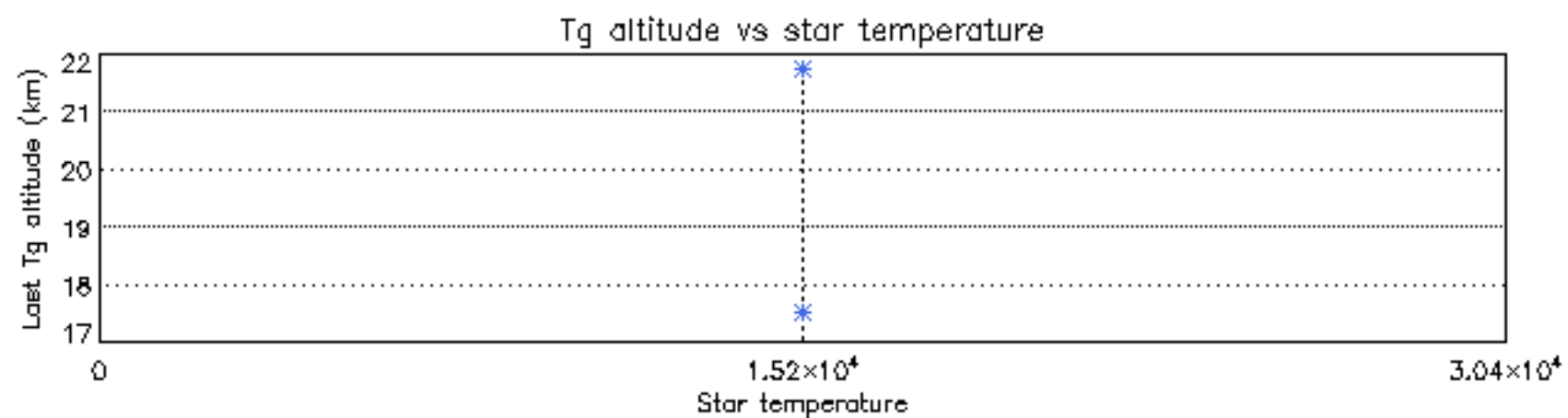
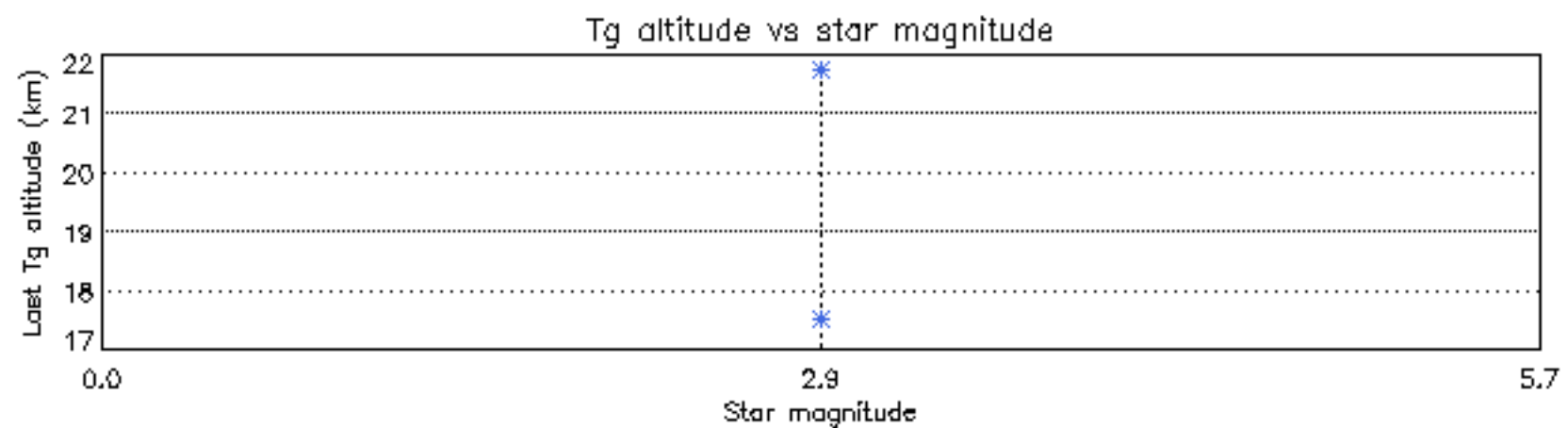
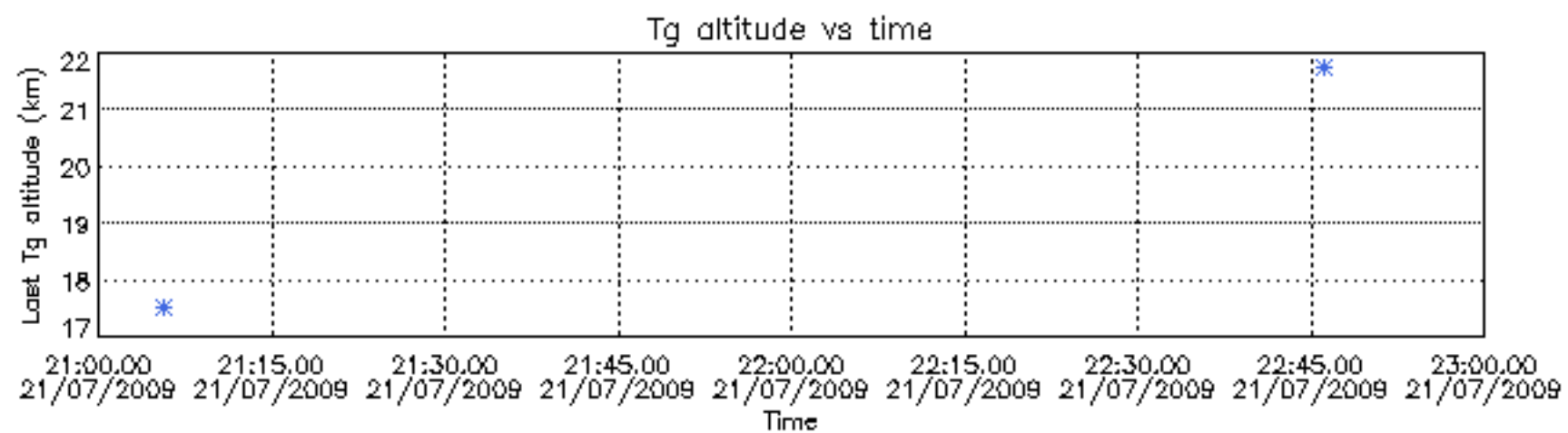


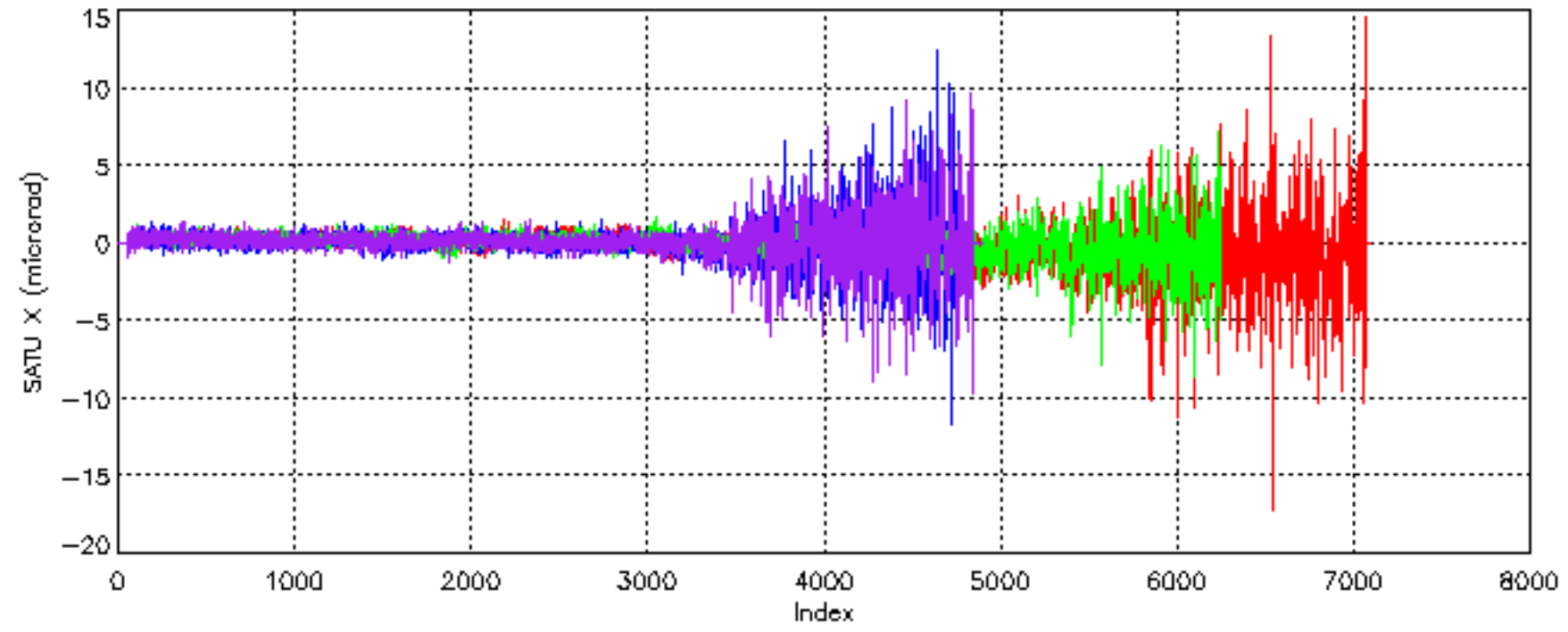
Tangent altitude at which the star is lost

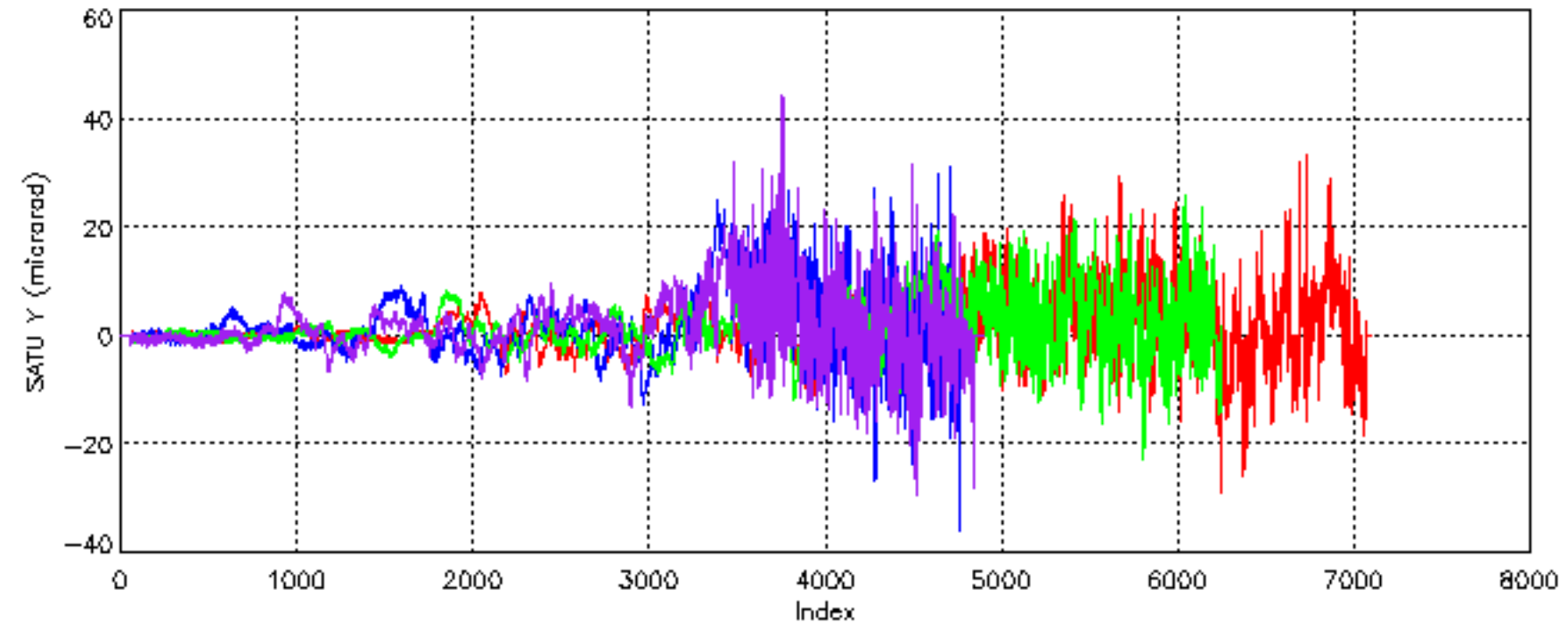


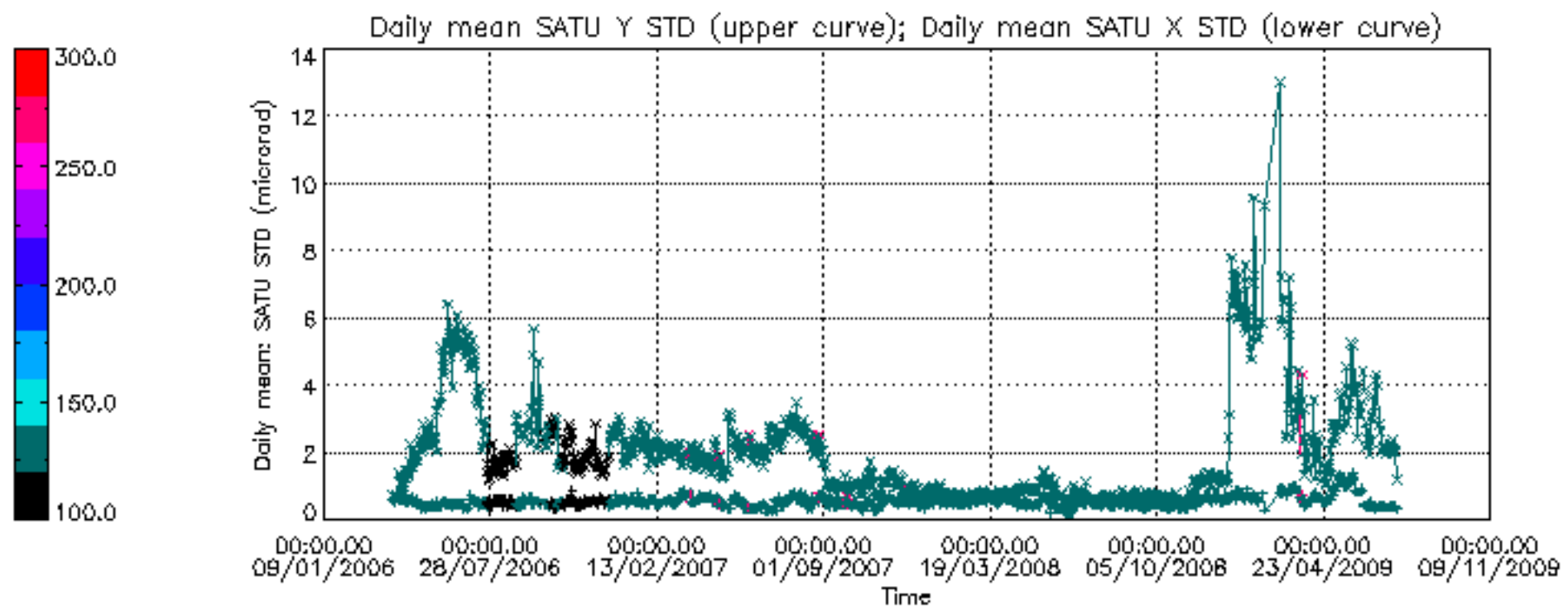


Tangent altitude at which the star is lost









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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
10; 3333.8; 02-JUL-2009 02:13:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38362
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
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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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8; 2651.1; 01-JUL-2009 02:33:37; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;38348
9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
10; 3343.1; 01-JUL-2009 02:45:09; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38348
11; 3784.6; 01-JUL-2009 02:52:31; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;38348
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3; -1610.9; 01-JUL-2009 03:03:11; Dark ; 35.0; 173; 4Bet Tri ; 3.00; 8900;occ; 70; 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
8; 605.3; 01-JUL-2009 03:40:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38349
9; 778.8; 01-JUL-2009 03:43:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38349
10; 1481.3; 01-JUL-2009 03:54:43; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38349
11; 2230.9; 01-JUL-2009 04:07:13; Bright; 51.0; 168; 17Zet Aql ; 2.99; 11000;occ; 102; 0;38349
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13; 2920.9; 01-JUL-2009 04:18:43; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38349
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7; 101.2; 01-JUL-2009 05:12:19; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;38350
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6; 3778.7; 01-JUL-2009 21:19:00; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38359
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 13; 4265.9; 01-JUL-2009 23:07:43; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38360  
 14; 4426.0; 01-JUL-2009 23:10:23; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38360  
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 4; 616.0; 01-JUL-2009 23:47:29; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38361  
 5; 791.5; 01-JUL-2009 23:50:25; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38361  
 6; 1483.5; 02-JUL-2009 00:01:57; Bright; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;38361  
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 8; 2645.1; 02-JUL-2009 00:21:18; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;38361  
 9; 2910.7; 02-JUL-2009 00:25:44; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38361  
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 8; 491.1; 01-JUL-2009 06:59:25; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38351  
 9; 607.2; 01-JUL-2009 07:01:21; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38351  
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 8; 4425.4; 01-JUL-2009 08:04:59; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38351  
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 14; 6817.9; 01-JUL-2009 08:44:52; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38351  
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 3; -1350.7; 02-JUL-2009 02:35:54; Dark ; 40.5; 50; 13Alp Ari ; 2.01; 4250;occ; 81; 0;38362  
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 5; 114.5; 02-JUL-2009 03:00:19; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;38363  
 6; 502.5; 02-JUL-2009 03:06:47; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;38363  
 7; 617.7; 02-JUL-2009 03:08:42; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;38363

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9; 1484.2; 02-JUL-2009 03:23:09; Bright; 51.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 102; 0;38363
10; 2223.5; 02-JUL-2009 03:35:28; Bright; 70.0; 168; 17Zet Aql ; 2.99; 11000;occ; 140; 0;38363
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3; -1770.1; 02-JUL-2009 04:09:31; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38363
4; -1609.7; 02-JUL-2009 04:12:11; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38363
5; -1350.3; 02-JUL-2009 04:16:30; Dark ; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;38363
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7; 115.7; 02-JUL-2009 04:40:57; Dark ; 59.0; 84; Alp Phe ; 2.40; 4500;occ; 118; 0;38364
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13; 2643.7; 02-JUL-2009 05:23:04; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;38364
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3; -1770.4; 02-JUL-2009 05:50:06; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38364
4; -1609.5; 02-JUL-2009 05:52:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38364
5; -1350.0; 02-JUL-2009 05:57:07; Dark ; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;38364
6; -517.2; 02-JUL-2009 06:11:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38364
7; 116.6; 02-JUL-2009 06:21:33; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;38365
8; 504.2; 02-JUL-2009 06:28:01; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38365
9; 619.6; 02-JUL-2009 06:29:56; Dark ; 58.0; 31; Alp Gru ; 1.73; 15200;occ; 116; 0;38365
10; 795.8; 02-JUL-2009 06:32:53; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38365
11; 1484.7; 02-JUL-2009 06:44:21; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38365
12; 2222.5; 02-JUL-2009 06:56:39; Bright; 49.0; 168; 17Zet Aql ; 2.99; 11000;occ; 98; 0;38365
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3; 2218.5; 02-JUL-2009 20:21:23; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38373
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5; 2900.7; 02-JUL-2009 20:32:45; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;38373
6; 3326.2; 02-JUL-2009 20:39:50; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38373
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9; 4264.8; 02-JUL-2009 20:55:29; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38373
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5; 805.1; 02-JUL-2009 21:38:25; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38374
6; 1486.1; 02-JUL-2009 21:49:46; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38374
7; 2217.8; 02-JUL-2009 22:01:58; Bright; 69.0; 168; 17Zet Aql ; 2.99; 11000;occ; 138; 0;38374
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9; 2899.7; 02-JUL-2009 22:13:20; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38374
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12; 3868.9; 02-JUL-2009 22:29:29; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0;38374
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9; 4687.2; 02-JUL-2009 12:39:32; Dark ; 40.0; 50; 13Alp Ari ; 2.01; 4250;occ; 80; 0;38368

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6; 2197.9; 06-JUL-2009 03:09:10; Bright; 47.5; 168; 17Zet Aql ; 2.99; 11000;occ; 95; 0;38420  
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 9; 3729.4; 07-JUL-2009 23:10:16; Bright; 54.5; 74; 11Bet Cas ; 2.27; 6600;occ; 109; 0;38446  
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 12; 4431.8; 07-JUL-2009 23:21:58; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;38446  
 13; 4717.8; 07-JUL-2009 23:26:44; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38446  
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 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  
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 11; 4257.7; 08-JUL-2009 00:59:40; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38447  
 12; 4431.9; 08-JUL-2009 01:02:34; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38447  
 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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 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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 3; 3284.4; 07-JUL-2009 07:57:28; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38437  
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 5; 3848.1; 07-JUL-2009 08:06:51; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38437  
 6; 4259.0; 07-JUL-2009 08:13:42; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38437  
 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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 3; 3283.7; 07-JUL-2009 09:38:03; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38438  
 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  
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 9; 5021.8; 07-JUL-2009 10:07:01; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;38438  
 10; 5592.6; 07-JUL-2009 10:16:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
 7; 4714.9; 07-JUL-2009 11:42:30; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;38439
 8; 5022.3; 07-JUL-2009 11:47:37; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38439
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11; 6611.0; 07-JUL-2009 12:14:06; Dark ; 67.0; 63; Bet Gru ; 2.15; 2800;occ; 134; 0;38439
12; 6719.5; 07-JUL-2009 12:15:55; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38439
13; 6905.6; 07-JUL-2009 12:19:01; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38439
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 3; 3282.2; 07-JUL-2009 12:59:13; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38440
 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
 7; 4431.5; 07-JUL-2009 13:18:22; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;38440
 8; 4715.2; 07-JUL-2009 13:23:06; Dark ; 53.0; 50; 13Alp Ari ; 2.01; 4250;occ; 106; 0;38440
 9; 5023.0; 07-JUL-2009 13:28:14; Dark ; 41.5; 94; 92Alp Cet ; 2.53; 3100;occ; 83; 0;38440
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12; 6611.9; 07-JUL-2009 13:54:43; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38440
13; 6720.4; 07-JUL-2009 13:56:31; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38440
14; 6906.3; 07-JUL-2009 13:59:37; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 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
 7; 4431.5; 07-JUL-2009 14:58:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38441
 8; 4715.8; 07-JUL-2009 15:03:43; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;38441
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13; 6721.3; 07-JUL-2009 15:37:08; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 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
 4; 3731.8; 07-JUL-2009 16:27:55; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;38442
 5; 3846.6; 07-JUL-2009 16:29:49; Bright; 40.5; 110; 37Del Cas ; 2.68; 8900;occ; 81; 0;38442
 6; 4258.2; 07-JUL-2009 16:36:41; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;38442
 7; 4431.4; 07-JUL-2009 16:39:34; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38442
 8; 4716.1; 07-JUL-2009 16:44:19; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;38442
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12; 6613.8; 07-JUL-2009 17:15:57; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38442
13; 6722.1; 07-JUL-2009 17:17:45; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 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
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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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10; 5598.2; 07-JUL-2009 18:39:37; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38443
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12; 6614.6; 07-JUL-2009 18:56:33; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38443
13; 6723.0; 07-JUL-2009 18:58:22; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;38443
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3; 3279.7; 07-JUL-2009 19:41:35; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;38444
4; 3730.4; 07-JUL-2009 19:49:05; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;38444
5; 3845.6; 07-JUL-2009 19:51:00; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38444
6; 4258.0; 07-JUL-2009 19:57:53; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38444
7; 4431.7; 07-JUL-2009 20:00:46; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38444
8; 4717.1; 07-JUL-2009 20:05:32; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38444
9; 5024.9; 07-JUL-2009 20:10:40; Dark ; 39.5; 94; 92Alp Cet ; 2.53; 3100;occ; 79; 0;38444
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12; 6615.8; 07-JUL-2009 20:37:11; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38444
13; 6723.8; 07-JUL-2009 20:38:59; Dark ; 54.5; 31; Alp Gru ; 1.73; 15200;occ; 109; 0;38444
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3; 582.4; 08-JUL-2009 01:39:01; Dark ; 64.5; 63; Bet Gru ; 2.15; 2800;occ; 129; 0;38448
4; 690.4; 08-JUL-2009 01:40:49; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38448
5; 876.7; 08-JUL-2009 01:43:55; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38448
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7; 2844.0; 08-JUL-2009 02:16:42; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38448
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9; 3728.0; 08-JUL-2009 02:31:26; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38448
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8; 3269.3; 08-JUL-2009 22:30:59; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;38460
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5; 888.4; 08-JUL-2009 23:31:54; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38461
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3; 3274.5; 08-JUL-2009 09:06:17; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38452
4; 3725.7; 08-JUL-2009 09:13:48; Bright; 59.5; 74; 11Bet Cas ; 2.27; 6600;occ; 119; 0;38452
5; 3842.9; 08-JUL-2009 09:15:45; Bright; 39.5; 110; 37Del Cas ; 2.68; 8900;occ; 79; 0;38452
6; 4256.9; 08-JUL-2009 09:22:39; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;38452
7; 4432.1; 08-JUL-2009 09:25:34; Dark ; 44.0; 173; 4Bet Tri ; 3.00; 8900;occ; 88; 0;38452
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9; 5056.9; 11-JUL-2009 14:43:32; Dark ; 43.5; 94; 92Alp Cet ; 2.53; 3100;occ; 87; 0;38498
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3; 2937.0; 14-JUL-2009 09:12:09; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38538
4; 3221.4; 14-JUL-2009 09:16:54; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38538

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6; 3808.1; 14-JUL-2009 09:26:40; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;38538
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8; 4122.7; 14-JUL-2009 09:31:55; Bright; 59.0; 35; 33Alp Per ; 1.79; 6250;occ; 118; 0;38538
9; 4243.4; 14-JUL-2009 09:33:56; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;38538
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11; 5428.7; 14-JUL-2009 09:53:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38538
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13; 6698.7; 14-JUL-2009 10:14:51; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;38538
14; 6797.1; 14-JUL-2009 10:16:29; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38538
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3; 2936.1; 14-JUL-2009 10:52:44; Bright; 51.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 103; 0;38539
4; 3220.9; 14-JUL-2009 10:57:29; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38539
5; 3669.3; 14-JUL-2009 11:04:57; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38539
6; 3807.6; 14-JUL-2009 11:07:16; Bright; 41.5; 110; 37Del Cas ; 2.68; 8900;occ; 83; 0;38539
7; 4043.2; 14-JUL-2009 11:11:11; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;38539
8; 4122.6; 14-JUL-2009 11:12:31; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38539
9; 4243.2; 14-JUL-2009 11:14:31; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;38539
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12; 6700.2; 14-JUL-2009 13:36:04; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38540
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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3; 2934.4; 14-JUL-2009 14:13:54; Bright; 52.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 105; 0;38541
4; 3219.7; 14-JUL-2009 14:18:39; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38541
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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
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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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15; 6800.1; 14-JUL-2009 16:58:56; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 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
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 5; 3217.3; 14-JUL-2009 21:01:01; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 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
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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
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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
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 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
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 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
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 5; 3666.7; 14-JUL-2009 17:47:18; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38543
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13; 6350.0; 14-JUL-2009 18:32:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38543
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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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 5; 960.4; 15-JUL-2009 01:25:12; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 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  
 9; 961.1; 15-JUL-2009 03:05:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38549  
 10; 2109.4; 15-JUL-2009 03:24:57; Bright; 49.5; 11; 53Alp Aql ; 0.76; 8000;occ; 99; 0;38549  
 11; 2782.6; 15-JUL-2009 03:36:10; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38549  
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 4; -1914.3; 15-JUL-2009 03:58:29; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38549  
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 7; -597.5; 15-JUL-2009 04:20:26; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38549  
 8; 320.8; 15-JUL-2009 04:35:44; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38550  
 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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 5; -1738.8; 15-JUL-2009 05:42:00; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;38550  
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9; 673.0; 15-JUL-2009 06:22:12; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38551
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12; 2108.6; 15-JUL-2009 06:46:08; Bright; 45.0; 11; 53Alp Aql ; 0.76; 8000;occ; 90; 0;38551
13; 2781.3; 15-JUL-2009 06:57:20; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38551
14; 2925.5; 15-JUL-2009 06:59:45; Bright; 49.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 99; 0;38551
15; 3213.6; 15-JUL-2009 07:04:33; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38551
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6; -942.6; 15-JUL-2009 07:35:53; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38551
7; -595.7; 15-JUL-2009 07:41:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38551
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9; 673.7; 15-JUL-2009 08:02:49; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;38552
10; 770.6; 15-JUL-2009 08:04:26; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38552
11; 963.1; 15-JUL-2009 08:07:38; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38552
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3; 2924.6; 15-JUL-2009 08:40:20; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38552
4; 3213.1; 15-JUL-2009 08:45:08; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38552
5; 3660.4; 15-JUL-2009 08:52:35; Bright; 56.0; 74; 11Bet Cas ; 2.27; 6600;occ; 112; 0;38552
6; 3802.0; 15-JUL-2009 08:54:57; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38552
7; 4041.0; 15-JUL-2009 08:58:56; Bright; 40.5; 160; 23Gam Per ; 2.93; 4700;occ; 81; 0;38552
8; 4121.2; 15-JUL-2009 09:00:16; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;38552
9; 4297.1; 15-JUL-2009 09:03:12; Bright; 43.0; 79; 26Bet Per ; 2.31; 13100;occ; 86; 0;38552
10; 5094.1; 15-JUL-2009 09:16:29; Dark ; 66.5; 94; 92Alp Cet ; 2.53; 3100;occ; 133; 0;38552
11; 5441.1; 15-JUL-2009 09:22:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38552
12; 6360.4; 15-JUL-2009 09:37:35; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;38552
13; 6710.5; 15-JUL-2009 09:43:26; Dark ; 67.0; 63; Bet Gru ; 2.15; 2800;occ; 134; 0;38552
14; 6807.3; 15-JUL-2009 09:45:02; Dark ; 59.0; 31; Alp Gru ; 1.73; 15200;occ; 118; 0;38552
15; 6999.9; 15-JUL-2009 09:48:15; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38552
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3; 2923.7; 15-JUL-2009 10:20:55; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38553
4; 3212.6; 15-JUL-2009 10:25:44; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38553
5; 3659.8; 15-JUL-2009 10:33:11; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38553
6; 3801.5; 15-JUL-2009 10:35:33; Bright; 47.0; 110; 37Del Cas ; 2.68; 8900;occ; 94; 0;38553
7; 4040.7; 15-JUL-2009 10:39:32; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;38553
8; 4121.2; 15-JUL-2009 10:40:52; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;38553
9; 4297.0; 15-JUL-2009 10:43:48; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38553
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13; 6711.2; 15-JUL-2009 11:24:02; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38553
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15; 7000.7; 15-JUL-2009 11:28:52; Dark ; 52.0; 172; Gam Gru ; 3.00; 13100;occ; 104; 0;38553
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3; 2922.8; 15-JUL-2009 12:01:30; Bright; 52.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 105; 0;38554
4; 3211.8; 15-JUL-2009 12:06:19; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38554
5; 3659.0; 15-JUL-2009 12:13:46; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38554
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7; 4040.7; 15-JUL-2009 12:20:08; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38554
8; 4121.1; 15-JUL-2009 12:21:28; Bright; 51.5; 35; 33Alp Per ; 1.79; 6250;occ; 103; 0;38554
9; 4297.0; 15-JUL-2009 12:24:24; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;38554
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11; 5442.9; 15-JUL-2009 12:43:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38554
12; 6362.5; 15-JUL-2009 12:58:49; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38554
13; 6712.1; 15-JUL-2009 13:04:39; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38554

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3; 2921.9; 15-JUL-2009 13:42:05; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38555
4; 3658.5; 15-JUL-2009 13:54:21; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38555
5; 3800.5; 15-JUL-2009 13:56:43; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;38555
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13; 6809.5; 15-JUL-2009 14:46:52; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38555
14; 7002.4; 15-JUL-2009 14:50:05; Dark ; 50.5; 172; Gam Gru ; 3.00; 13100;occ; 101; 0;38555
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3; 2777.1; 15-JUL-2009 20:22:04; Bright; 59.0; 144; 18Del Cyg ; 2.86; 11000;occ; 118; 0;38559
4; 2918.6; 15-JUL-2009 20:24:25; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38559
5; 3209.0; 15-JUL-2009 20:29:16; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38559
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6; 969.2; 15-JUL-2009 21:32:32; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 0;38560
7; 2105.0; 15-JUL-2009 21:51:28; Bright; 48.5; 11; 53Alp Aql ; 0.76; 8000;occ; 97; 0;38560
8; 2776.6; 15-JUL-2009 22:02:39; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38560
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13; 4039.4; 15-JUL-2009 22:23:42; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;38560
14; 4120.3; 15-JUL-2009 22:25:03; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38560
15; 4296.7; 15-JUL-2009 22:27:59; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38560
16; 4623.9; 15-JUL-2009 22:33:26; Dark ; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;38560
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9; 4296.3; 17-JUL-2009 07:59:57; Bright; 50.0; 79; 26Bet Per ; 2.31; 13100;occ; 100; 0;38580
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6; 3757.1; 17-JUL-2009 09:31:34; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38581
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 4; 798.4; 18-JUL-2009 01:28:15; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38591  
 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591  
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591  
 7; 2761.6; 18-JUL-2009 02:00:58; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38591  
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6;-1561.8; 18-JUL-2009 04:10:06; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38592
7; -910.0; 18-JUL-2009 04:20:58; Dark ; 64.0; 94; 92Alp Cet ; 2.53; 3100;occ; 128; 0;38592
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6; 3625.2; 18-JUL-2009 20:41:57; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38602
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11; 4656.8; 24-JUL-2009 11:07:02; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38682
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13; 5358.1; 24-JUL-2009 11:18:44; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38682
14; 5579.9; 24-JUL-2009 11:22:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38682
15; 5915.2; 24-JUL-2009 11:28:01; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;38682
16; 6509.5; 24-JUL-2009 11:37:55; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38682
17; 6894.4; 24-JUL-2009 11:44:20; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38682
18; 7086.6; 24-JUL-2009 11:47:32; Dark ; 49.0; 172; Gam Gru ; 3.00; 13100;occ; 98; 0;38682
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 3; 2826.3; 24-JUL-2009 12:17:08; Bright; 44.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 88; 0;38683
 4; 3141.4; 24-JUL-2009 12:22:23; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38683
 5; 3564.5; 24-JUL-2009 12:29:26; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;38683
 6; 3667.4; 24-JUL-2009 12:31:09; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;38683
 7; 4012.9; 24-JUL-2009 12:36:54; Bright; 61.5; 160; 23Gam Per ; 2.93; 4700;occ; 123; 0;38683
 8; 4103.0; 24-JUL-2009 12:38:24; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38683
 9; 4317.3; 24-JUL-2009 12:41:59; Bright; 41.0; 149; 45Eps Per ; 2.89; 30000;occ; 82; 0;38683
10; 4486.5; 24-JUL-2009 12:44:48; Dark ; 47.5; 150; 44Zet Per ; 2.89; 28000;occ; 95; 0;38683
11; 4656.9; 24-JUL-2009 12:47:38; Dark ; 48.0; 146; 25Eta Tau ; 2.87; 15200;occ; 96; 0;38683
12; 4752.3; 24-JUL-2009 12:49:14; Dark ; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;38683
13; 5358.8; 24-JUL-2009 12:59:20; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38683
14; 5581.1; 24-JUL-2009 13:03:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38683
15; 5916.3; 24-JUL-2009 13:08:38; Dark ; 42.0; 157; The1Eri ; 2.91; 9300;occ; 84; 0;38683
16; 6510.7; 24-JUL-2009 13:18:32; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38683
17; 6895.0; 24-JUL-2009 13:24:56; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;38683
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 3; 2825.6; 24-JUL-2009 13:57:43; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38684
 4; 3563.9; 24-JUL-2009 14:10:01; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38684
 5; 3666.8; 24-JUL-2009 14:11:44; Bright; 51.5; 76; 27Gam Cas ; 2.30; 30000;occ; 103; 0;38684
 6; 4012.6; 24-JUL-2009 14:17:30; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38684

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 9; 4486.7; 24-JUL-2009 14:25:24; Dark ; 48.5; 150; 44Zet Per ; 2.89; 28000;occ; 97; 0;38684  
 10; 4657.4; 24-JUL-2009 14:28:15; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38684  
 11; 4752.7; 24-JUL-2009 14:29:50; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;38684  
 12; 5359.6; 24-JUL-2009 14:39:57; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38684  
 13; 5582.4; 24-JUL-2009 14:43:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38684  
 14; 5916.9; 24-JUL-2009 14:49:14; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38684  
 15; 6511.9; 24-JUL-2009 14:59:09; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38684  
 16; 6895.7; 24-JUL-2009 15:05:33; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;38684  
 17; 7088.0; 24-JUL-2009 15:08:45; Dark ; 48.5; 172; Gam Gru ; 3.00; 13100;occ; 97; 0;38684

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 2; 2647.4; 24-JUL-2009 15:35:21; Bright; 71.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 142; 0;38685  
 3; 2825.1; 24-JUL-2009 15:38:18; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38685  
 4; 3140.7; 24-JUL-2009 15:43:34; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38685  
 5; 3563.1; 24-JUL-2009 15:50:36; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38685  
 6; 3666.3; 24-JUL-2009 15:52:20; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38685  
 7; 4012.4; 24-JUL-2009 15:58:06; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;38685  
 8; 4102.9; 24-JUL-2009 15:59:36; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38685  
 9; 4317.4; 24-JUL-2009 16:03:11; Bright; 41.5; 149; 45Eps Per ; 2.89; 30000;occ; 83; 0;38685  
 10; 4486.9; 24-JUL-2009 16:06:00; Dark ; 47.5; 150; 44Zet Per ; 2.89; 28000;occ; 95; 0;38685  
 11; 4657.8; 24-JUL-2009 16:08:51; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38685  
 12; 4753.2; 24-JUL-2009 16:10:26; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;38685  
 13; 5360.3; 24-JUL-2009 16:20:34; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38685  
 14; 5583.8; 24-JUL-2009 16:24:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38685  
 15; 5917.8; 24-JUL-2009 16:29:51; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;38685  
 16; 6513.0; 24-JUL-2009 16:39:46; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38685  
 17; 6896.3; 24-JUL-2009 16:46:10; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38685  
 18; 7088.7; 24-JUL-2009 16:49:22; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38685

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 2; 2646.7; 24-JUL-2009 17:15:56; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38686  
 3; 2824.5; 24-JUL-2009 17:18:54; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38686  
 4; 3140.0; 24-JUL-2009 17:24:09; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38686  
 5; 3562.4; 24-JUL-2009 17:31:12; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38686  
 6; 3665.8; 24-JUL-2009 17:32:55; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;38686  
 7; 4012.2; 24-JUL-2009 17:38:41; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38686  
 8; 4102.7; 24-JUL-2009 17:40:12; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;38686  
 9; 4289.2; 24-JUL-2009 17:43:18; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38686  
 10; 4487.0; 24-JUL-2009 17:46:36; Dark ; 49.0; 150; 44Zet Per ; 2.89; 28000;occ; 98; 0;38686  
 11; 4658.1; 24-JUL-2009 17:49:27; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 0;38686  
 12; 4753.5; 24-JUL-2009 17:51:03; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;38686  
 13; 5361.1; 24-JUL-2009 18:01:10; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38686  
 14; 5585.0; 24-JUL-2009 18:04:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38686  
 15; 5918.7; 24-JUL-2009 18:10:28; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38686  
 16; 6514.3; 24-JUL-2009 18:20:24; Dark ; 63.0; 84; Alp Phe ; 2.40; 4500;occ; 126; 0;38686  
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 3; 2646.0; 24-JUL-2009 18:56:31; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38687  
 4; 2823.9; 24-JUL-2009 18:59:29; Bright; 59.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 119; 0;38687  
 5; 3139.5; 24-JUL-2009 19:04:45; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38687  
 6; 3561.5; 24-JUL-2009 19:11:47; Bright; 54.0; 74; 11Bet Cas ; 2.27; 6600;occ; 108; 0;38687  
 7; 3665.2; 24-JUL-2009 19:13:31; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38687  
 8; 4011.9; 24-JUL-2009 19:19:17; Bright; 63.5; 160; 23Gam Per ; 2.93; 4700;occ; 127; 0;38687  
 9; 4102.5; 24-JUL-2009 19:20:48; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38687  
 10; 4289.1; 24-JUL-2009 19:23:54; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38687  
 11; 4487.1; 24-JUL-2009 19:27:12; Dark ; 48.5; 150; 44Zet Per ; 2.89; 28000;occ; 97; 0;38687  
 12; 4658.4; 24-JUL-2009 19:30:04; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38687  
 13; 4753.6; 24-JUL-2009 19:31:39; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;38687  
 14; 5361.7; 24-JUL-2009 19:41:47; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38687  
 15; 5586.3; 24-JUL-2009 19:45:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38687  
 16; 5919.5; 24-JUL-2009 19:51:05; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;38687  
 17; 6515.4; 24-JUL-2009 20:01:01; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38687  
 18; 6897.5; 24-JUL-2009 20:07:23; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38687  
 19; 7089.7; 24-JUL-2009 20:10:35; Dark ; 39.0; 172; Gam Gru ; 3.00; 13100;occ; 78; 0;38687

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 3; -114.0; 25-JUL-2009 00:52:55; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;38690  
 4; 482.7; 25-JUL-2009 01:02:52; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38691  
 5; 863.3; 25-JUL-2009 01:09:12; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38691  
 6; 1055.5; 25-JUL-2009 01:12:24; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38691  
 7; 2071.3; 25-JUL-2009 01:29:20; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38691  
 8; 2642.9; 25-JUL-2009 01:38:52; Bright; 49.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 99; 0;38691  
 9; 2821.3; 25-JUL-2009 01:41:50; Bright; 46.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 92; 0;38691  
 10; 3137.5; 25-JUL-2009 01:47:06; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38691  
 11; 3558.4; 25-JUL-2009 01:54:07; Bright; 53.5; 74; 11Bet Cas ; 2.27; 6600;occ; 107; 0;38691  
 12; 3662.6; 25-JUL-2009 01:55:51; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38691  
 13; 4010.7; 25-JUL-2009 02:01:40; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38691  
 14; 4101.7; 25-JUL-2009 02:03:11; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38691  
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 18; 4754.9; 25-JUL-2009 02:14:04; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;38691

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 4; 483.9; 25-JUL-2009 02:43:29; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38692  
 5; 863.9; 25-JUL-2009 02:49:49; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38692  
 6; 1056.2; 25-JUL-2009 02:53:01; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38692  
 7; 2071.2; 25-JUL-2009 03:09:56; Bright; 42.5; 11; 53Alp Aql ; 0.76; 8000;occ; 85; 0;38692  
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 9; 2820.6; 25-JUL-2009 03:22:25; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;38692  
 10; 3137.2; 25-JUL-2009 03:27:42; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38692  
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 4; -1934.5; 25-JUL-2009 03:43:46; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38692  
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 7; -1376.1; 25-JUL-2009 03:53:05; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38692  
 8; -1280.9; 25-JUL-2009 03:54:40; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;38692  
 9; -670.6; 25-JUL-2009 04:04:50; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38692  
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 11; -112.3; 25-JUL-2009 04:14:08; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;38692  
 12; 484.9; 25-JUL-2009 04:24:06; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38693  
 13; 864.4; 25-JUL-2009 04:30:25; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;38693  
 14; 1056.7; 25-JUL-2009 04:33:37; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38693  
 15; 2070.9; 25-JUL-2009 04:50:32; Bright; 40.5; 11; 53Alp Aql ; 0.76; 8000;occ; 81; 0;38693  
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 18; 3136.6; 25-JUL-2009 05:08:17; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38693  
 19; 3556.8; 25-JUL-2009 05:15:18; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38693

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 6; -1375.9; 25-JUL-2009 05:33:41; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38693  
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6; 1063.4; 26-JUL-2009 00:40:55; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38705
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7; 2068.8; 26-JUL-2009 02:38:17; Bright; 43.0; 11; 53Alp Aql ; 0.76; 8000;occ; 86; 0;38706
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16; 6556.9; 27-JUL-2009 10:03:52; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38724
17; 6919.2; 27-JUL-2009 10:09:54; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;38724
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3; 2800.9; 27-JUL-2009 10:41:52; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38725
4; 3120.9; 27-JUL-2009 10:47:12; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38725
5; 3531.8; 27-JUL-2009 10:54:02; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38725
6; 3640.8; 27-JUL-2009 10:55:51; Bright; 49.5; 76; 27Gam Cas ; 2.30; 30000;occ; 99; 0;38725
7; 4000.9; 27-JUL-2009 11:01:52; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;38725
8; 4094.7; 27-JUL-2009 11:03:25; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38725
9; 4284.7; 27-JUL-2009 11:06:35; Bright; 56.0; 79; 26Bet Per ; 2.31; 13100;occ; 112; 0;38725
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12; 4765.9; 27-JUL-2009 11:14:36; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;38725
13; 5390.5; 27-JUL-2009 11:25:01; Dark ; 52.0; 165; 34Gam Eri ; 2.95; 3200;occ; 104; 0;38725
14; 5636.9; 27-JUL-2009 11:29:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38725
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16; 6558.0; 27-JUL-2009 11:44:29; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38725
17; 6919.9; 27-JUL-2009 11:50:30; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38725
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3; 2800.4; 27-JUL-2009 12:22:27; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38726
4; 3120.4; 27-JUL-2009 12:27:47; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38726
5; 3531.0; 27-JUL-2009 12:34:37; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;38726
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7; 4000.7; 27-JUL-2009 12:42:27; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;38726
8; 4094.4; 27-JUL-2009 12:44:01; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38726

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 13; 5391.2; 27-JUL-2009 13:05:38; Dark ; 51.0; 165; 34Gam Eri ; 2.95; 3200;occ; 102; 0;38726  
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 15; 5953.1; 27-JUL-2009 13:15:00; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38726  
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 14; 5641.3; 27-JUL-2009 16:31:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38728  
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 16; 6561.5; 27-JUL-2009 16:46:20; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38728  
 17; 6921.6; 27-JUL-2009 16:52:20; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;38728  
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 3; 2798.6; 27-JUL-2009 17:24:13; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38729  
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 5; 3528.7; 27-JUL-2009 17:36:23; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38729  
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 11; 4671.9; 27-JUL-2009 17:55:26; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38729  
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 13; 5393.8; 27-JUL-2009 18:07:28; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38729  
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 16; 6562.6; 27-JUL-2009 18:26:57; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38729  
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 3; 2065.4; 27-JUL-2009 18:52:36; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;38730  
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 5; 2709.8; 27-JUL-2009 19:03:20; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38730  
 6; 2798.0; 27-JUL-2009 19:04:48; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38730  
 7; 3118.5; 27-JUL-2009 19:10:09; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38730  
 8; 3527.9; 27-JUL-2009 19:16:58; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38730  
 9; 3637.6; 27-JUL-2009 19:18:48; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38730  
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 13; 4493.0; 27-JUL-2009 19:33:03; Dark ; 51.0; 150; 44Zet Per ; 2.89; 28000;occ; 102; 0;38730  
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 5; 888.3; 28-JUL-2009 01:15:22; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38734  
 6; 1079.4; 28-JUL-2009 01:18:33; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38734  
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 9; 2708.7; 28-JUL-2009 01:45:43; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38734  
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 11; 3116.6; 28-JUL-2009 01:52:30; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38734  
 12; 3524.7; 28-JUL-2009 01:59:19; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38734  
 13; 3635.0; 28-JUL-2009 02:01:09; Bright; 65.0; 76; 27Gam Cas ; 2.30; 30000;occ; 130; 0;38734  
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 5; 889.0; 28-JUL-2009 02:55:59; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38735  
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 11; 3116.1; 28-JUL-2009 03:33:06; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38735  
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