

# GOMOS Daily Report 21-APR-2006

## Level 0 and Level 1 products

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### 1. General Info

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	22APR2006 04:34:08

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (21APR2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (22APR2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

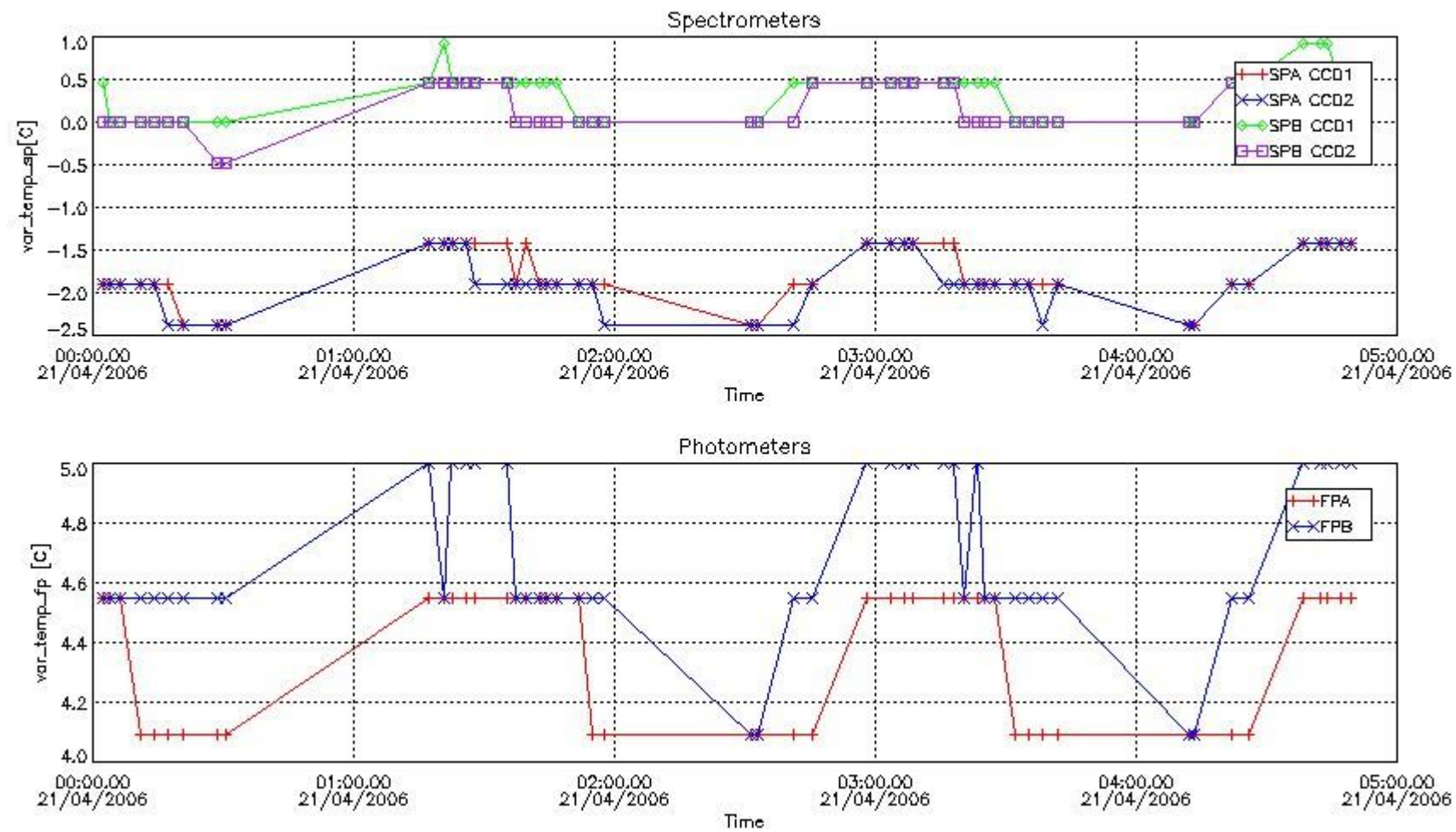
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 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_1PNPDE20060421_000218_000000392047_00045_21642_0007.N1	21-APR-2006 00:02:18	Twilight	39.000	78	Alp Lup	2.3040	28000.	78	21642	No
2	GOM_TRA_1PNPDE20060421_000353_000000422047_00045_21642_0008.N1	21-APR-2006 00:03:53	Bright	42.000	81	Eta Cen	2.3560	28000.	84	21642	No
3	GOM_TRA_1PNPDE20060421_000609_000000442047_00045_21642_0009.N1	21-APR-2006 00:06:09	Bright	44.000	54	5The Cen	2.0550	4500.0	88	21642	No
4	GOM_TRA_1PNPDE20060421_001105_000000432047_00045_21642_0010.N1	21-APR-2006 00:11:05	Bright	43.000	106	9Bet Crv	2.6480	5600.0	86	21642	No
5	GOM_TRA_1PNPDE20060421_001411_000000422047_00045_21642_0011.N1	21-APR-2006 00:14:11	Bright	41.500	15	67Alp Vir	0.97600	28000.	83	21642	No
6	GOM_TRA_1PNPDE20060421_001713_000000372047_00045_21642_0012.N1	21-APR-2006 00:17:13	Bright	36.500	121	29Gam Vir	2.7400	7200.0	73	21642	No
7	GOM_TRA_1PNPDE20060421_002048_000000372047_00045_21642_0013.N1	21-APR-2006 00:20:48	Bright	37.000	138	47Eps Vir	2.8280	4700.0	74	21642	No
8	GOM_TRA_1PNPDE20060421_002847_000000352047_00045_21642_0014.N1	21-APR-2006 00:28:47	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	21642	No
9	GOM_TRA_1PNPDE20060421_003040_000000342047_00045_21642_0015.N1	21-APR-2006 00:30:40	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	21642	No
10	GOM_TRA_1PNPDE20060421_011717_000000402047_00045_21642_0000.N1	21-APR-2006 01:17:17	Dark	39.500	18	24Alp PsA	1.1660	9700.0	79	21642	No
11	GOM_TRA_1PNPDE20060421_012057_000000402047_00045_21642_0001.N1	21-APR-2006 01:20:57	Dark	40.000	172	Gam Gru	3.0030	13100.	80	21642	No
12	GOM_TRA_1PNPDE20060421_012252_000000442047_00045_21642_0002.N1	21-APR-2006 01:22:52	Dark	43.500	31	Alp Gru	1.7340	15200.	87	21642	No
13	GOM_TRA_1PNPDE20060421_012554_000000382047_00045_21642_0003.N1	21-APR-2006 01:25:54	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	21642	No
14	GOM_TRA_1PNPDE20060421_012802_000000402047_00046_21643_0004.N1	21-APR-2006 01:28:02	Dark	39.500	45	Alp Pav	1.9400	26000.	79	21643	No
15	GOM_TRA_1PNPDE20060421_013512_000000392047_00046_21643_0005.N1	21-APR-2006 01:35:12	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	21643	No
16	GOM_TRA_1PNPDE20060421_013721_000000402047_00046_21643_0006.N1	21-APR-2006 01:37:21	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	21643	No
17	GOM_TRA_1PNPDE20060421_013938_000000452047_00046_21643_0007.N1	21-APR-2006 01:39:38	Twilight	45.000	4	Alp1Cen	-0.010000	5800.0	90	21643	No
18	GOM_TRA_1PNPDE20060421_014255_000000392047_00046_21643_0008.N1	21-APR-2006 01:42:55	Twilight	38.500	78	Alp Lup	2.3040	28000.	77	21643	No
19	GOM_TRA_1PNPDE20060421_014429_000000432047_00046_21643_0009.N1	21-APR-2006 01:44:29	Bright	43.000	81	Eta Cen	2.3560	28000.	86	21643	No
20	GOM_TRA_1PNPDE20060421_014645_000000482047_00046_21643_0010.N1	21-APR-2006 01:46:45	Bright	48.000	54	5The Cen	2.0550	4500.0	96	21643	No
21	GOM_TRA_1PNPDE20060421_015141_000000392047_00046_21643_0011.N1	21-APR-2006 01:51:41	Bright	38.500	106	9Bet Crv	2.6480	5600.0	77	21643	No
22	GOM_TRA_1PNPDE20060421_015447_000000422047_00046_21643_0012.N1	21-APR-2006 01:54:47	Bright	42.000	15	67Alp Vir	0.97600	28000.	84	21643	No
23	GOM_TRA_1PNPDE20060421_015749_000000362047_00046_21643_0013.N1	21-APR-2006 01:57:49	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	21643	No
24	GOM_TRA_1PNPDE20060421_023133_000000342047_00046_21643_0000.N1	21-APR-2006 02:31:33	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	21643	No
25	GOM_TRA_1PNPDE20060421_023251_000000522047_00046_21643_0001.N1	21-APR-2006 02:32:51	Bright	52.000	68	18Alp Cas	2.2250	4500.0	104	21643	No
26	GOM_TRA_1PNPDE20060421_024116_000000392047_00046_21643_0002.N1	21-APR-2006 02:41:16	Twilight	39.000	164	44Eta Peg	2.9480	5400.0	78	21643	No
27	GOM_TRA_1PNPDE20060421_024524_000000422047_00046_21643_0003.N1	21-APR-2006 02:45:24	Twilight	42.000	90	54Alp Peg	2.4870	11000.	84	21643	No
28	GOM_TRA_1PNPDE20060421_025754_000000452047_00046_21643_0004.N1	21-APR-2006 02:57:54	Dark	44.500	18	24Alp PsA	1.1660	9700.0	89	21643	No
29	GOM_TRA_1PNPDE20060421_030328_000000392047_00046_21643_0005.N1	21-APR-2006 03:03:28	Dark	38.500	31	Alp Gru	1.7340	15200.	77	21643	No
30	GOM_TRA_1PNPDE20060421_030630_000000382047_00046_21643_0006.N1	21-APR-2006 03:06:30	Dark	37.500	148	Alp Tuc	2.8780	4100.0	75	21643	No
31	GOM_TRA_1PNPDE20060421_030838_000000402047_00047_21644_0007.N1	21-APR-2006 03:08:38	Dark	39.500	45	Alp Pav	1.9400	26000.	79	21644	No
32	GOM_TRA_1PNPDE20060421_031549_000000402047_00047_21644_0008.N1	21-APR-2006 03:15:49	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	21644	No
33	GOM_TRA_1PNPDE20060421_031757_000000392047_00047_21644_0009.N1	21-APR-2006 03:17:57	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	21644	No
34	GOM_TRA_1PNPDE20060421_032014_000000522047_00047_21644_0010.N1	21-APR-2006 03:20:14	Twilight	51.500	4	Alp1Cen	-0.010000	5800.0	103	21644	No
35	GOM_TRA_1PNPDE20060421_032331_000000412047_00047_21644_0011.N1	21-APR-2006 03:23:31	Twilight	40.500	78	Alp Lup	2.3040	28000.	81	21644	No
36	GOM_TRA_1PNPDE20060421_032505_000000402047_00047_21644_0012.N1	21-APR-2006 03:25:05	Bright	40.000	81	Eta Cen	2.3560	28000.	80	21644	No
37	GOM_TRA_1PNPDE20060421_032721_000000452047_00047_21644_0013.N1	21-APR-2006 03:27:21	Bright	45.000	54	5The Cen	2.0550	4500.0	90	21644	No
38	GOM_TRA_1PNPDE20060421_033217_000000422047_00047_21644_0014.N1	21-APR-2006 03:32:17	Bright	41.500	106	9Bet Crv	2.6480	5600.0	83	21644	No
39	GOM_TRA_1PNPDE20060421_033523_000000412047_00047_21644_0015.N1	21-APR-2006 03:35:23	Bright	41.000	15	67Alp Vir	0.97600	28000.	82	21644	No
40	GOM_TRA_1PNPDE20060421_033825_000000362047_00047_21644_0016.N1	21-APR-2006 03:38:25	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	21644	No
41	GOM_TRA_1PNPDE20060421_034200_000000382047_00047_21644_0017.N1	21-APR-2006 03:42:00	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	21644	No
42	GOM_TRA_1PNPDE20060421_041209_000000402047_00047_21644_0000.N1	21-APR-2006 04:12:09	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	21644	No
43	GOM_TRA_1PNPDE20060421_041327_000000332047_00047_21644_0001.N1	21-APR-2006 04:13:27	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	21644	No
44	GOM_TRA_1PNPDE20060421_042152_000000392047_00047_21644_0002.N1	21-APR-2006 04:21:52	Twilight	39.000	164	44Eta Peg	2.9480	5400.0	78	21644	No
45	GOM_TRA_1PNPDE20060421_042600_000000422047_00047_21644_0003.N1	21-APR-2006 04:26:00	Twilight	41.500	90	54Alp Peg	2.4870	11000.	83	21644	No
46	GOM_TRA_1PNPDE20060421_043830_000000412047_00047_21644_0004.N1	21-APR-2006 04:38:30	Dark	41.000	18	24Alp PsA	1.1660	9700.0	82	21644	No

47	GOM_TRA_1PNPDE20060421_044210_00000402047_00047_21644_0005.N1	21-APR-2006 04:42:10	Dark	39.500	172	Gam Gru	3.0030	13100.	79	21644	No
48	GOM_TRA_1PNPDE20060421_044404_00000402047_00047_21644_0006.N1	21-APR-2006 04:44:04	Dark	39.500	31	Alp Gru	1.7340	15200.	79	21644	No
49	GOM_TRA_1PNPDE20060421_044707_00000372047_00047_21644_0007.N1	21-APR-2006 04:47:07	Dark	37.000	148	Alp Tuc	2.8780	4100.0	74	21644	No
50	GOM_TRA_1PNPDE20060421_044915_00000402047_00048_21645_0008.N1	21-APR-2006 04:49:15	Dark	39.500	45	Alp Pav	1.9400	26000.	79	21645	No

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



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

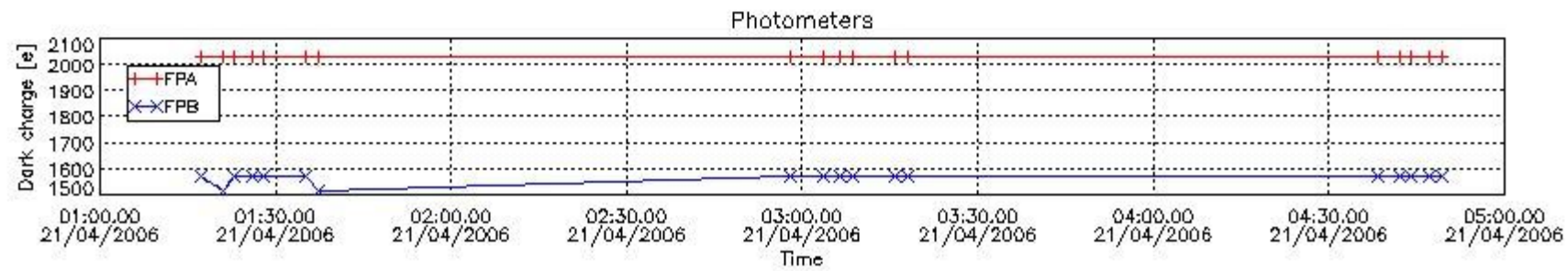
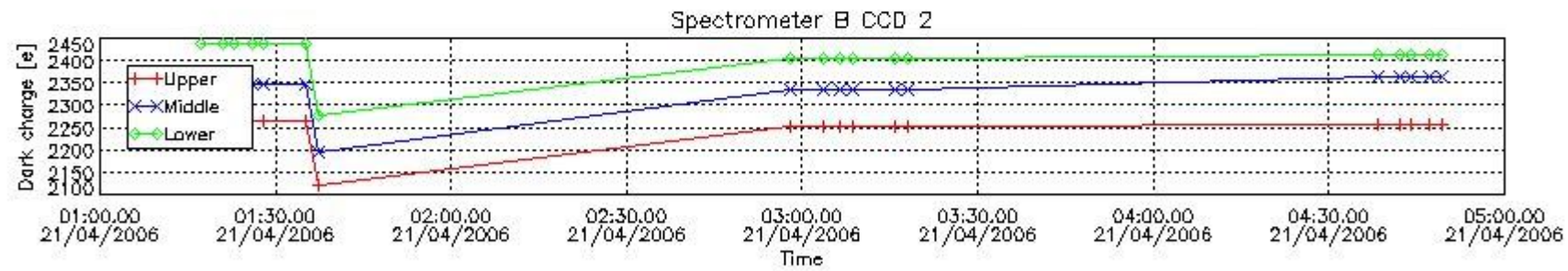
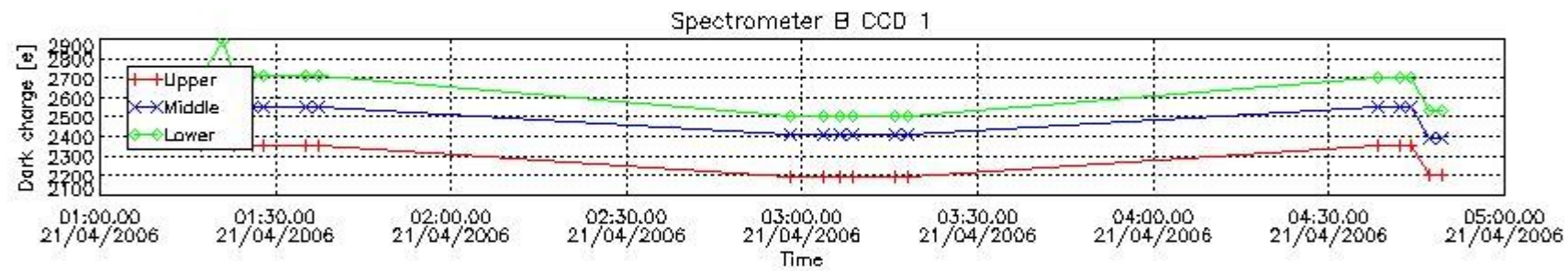
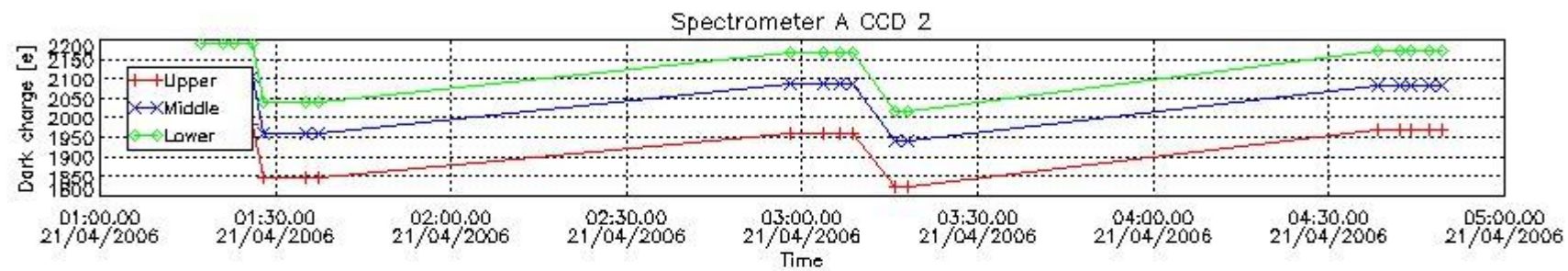
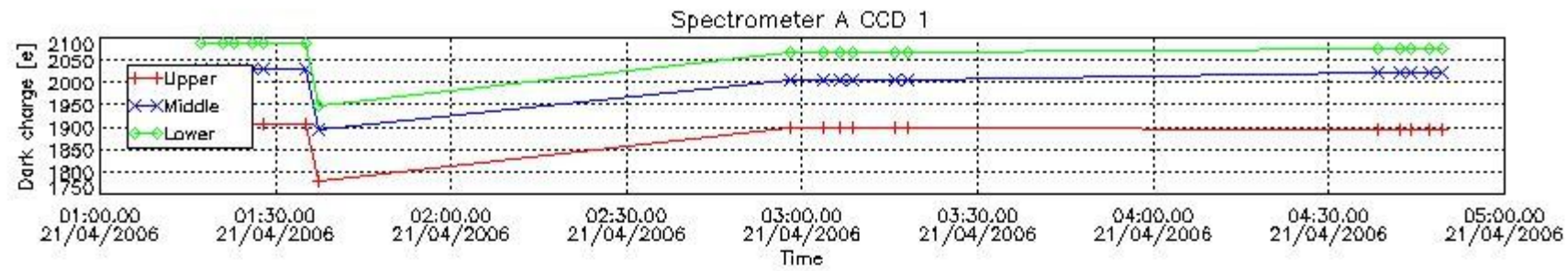
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





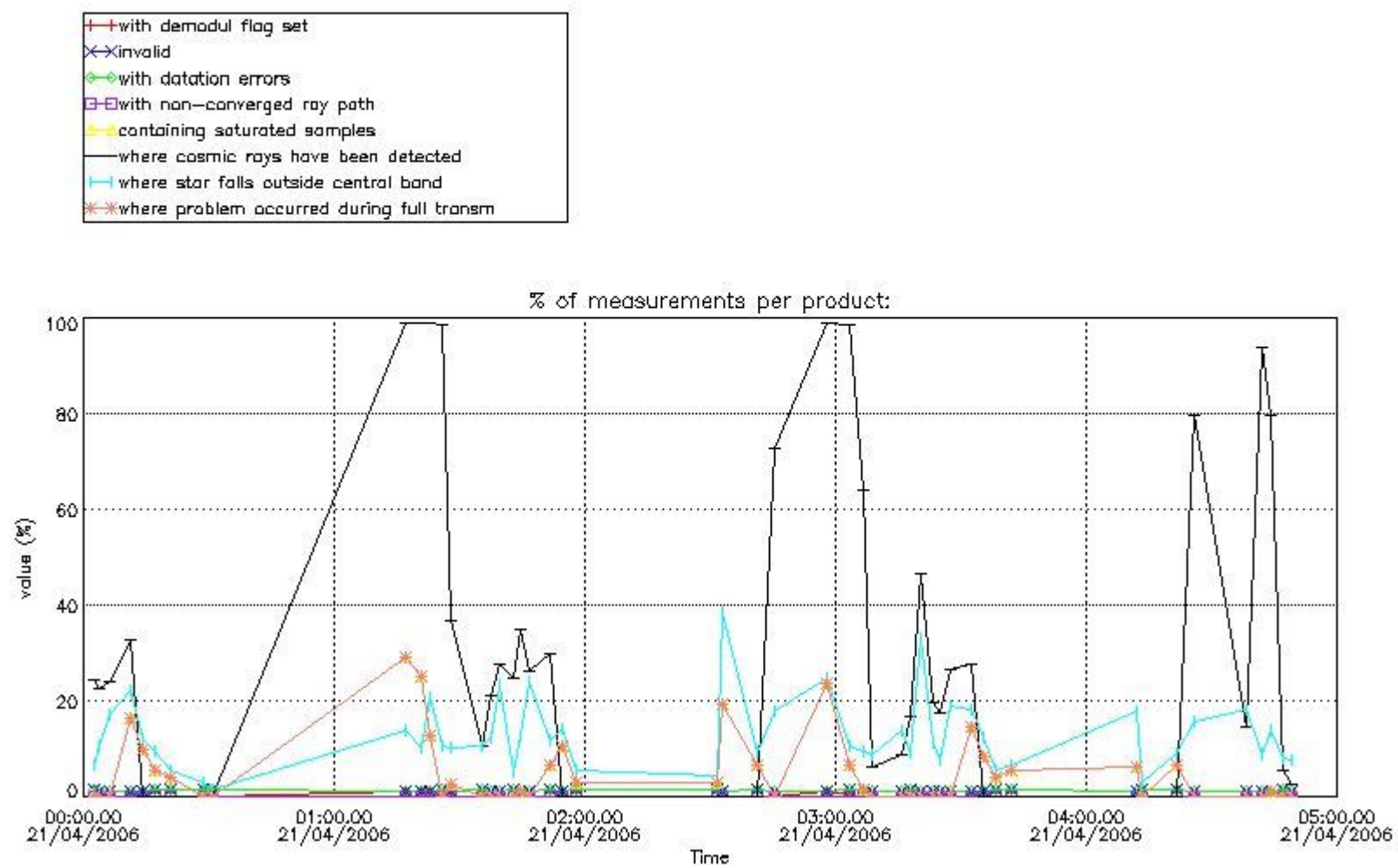
## 5. Demodulation flag and quality information monitoring

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:

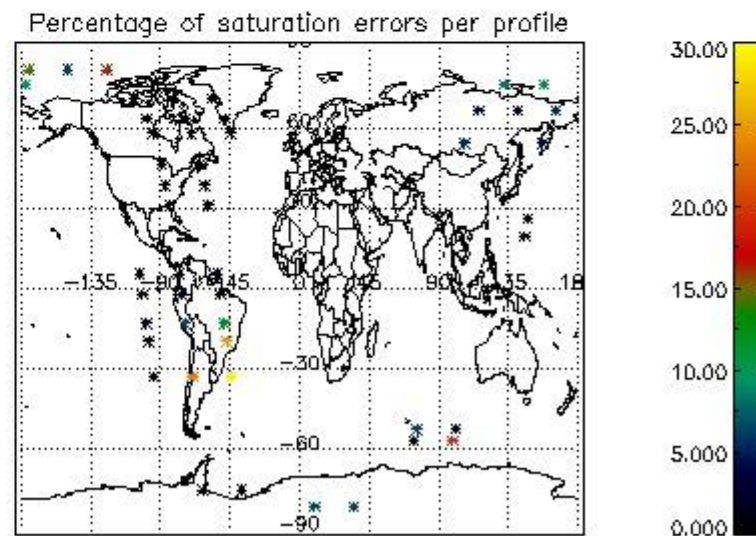
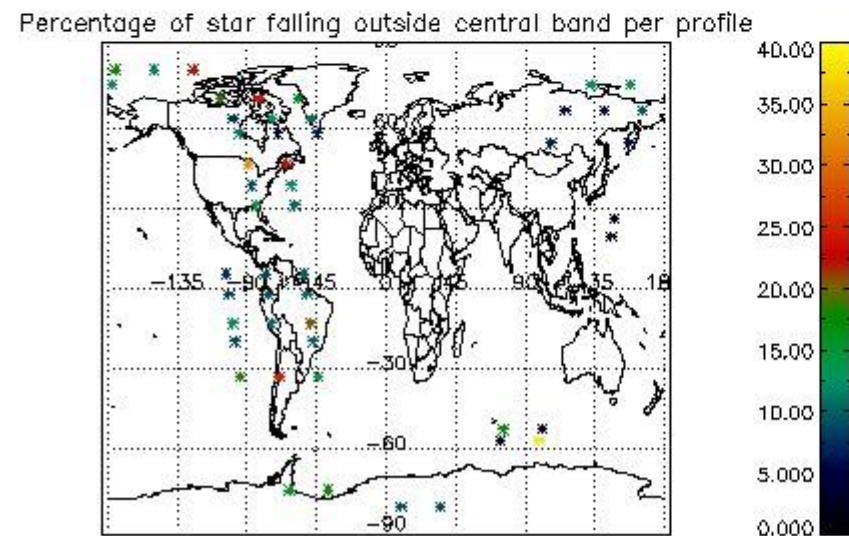
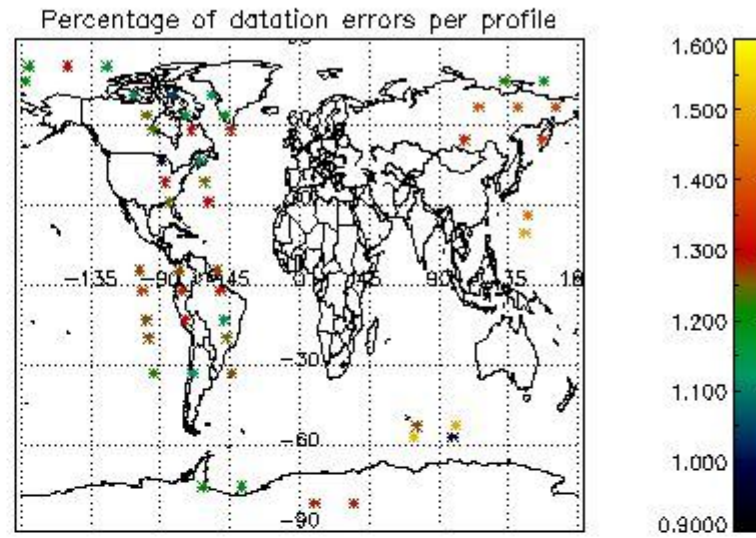
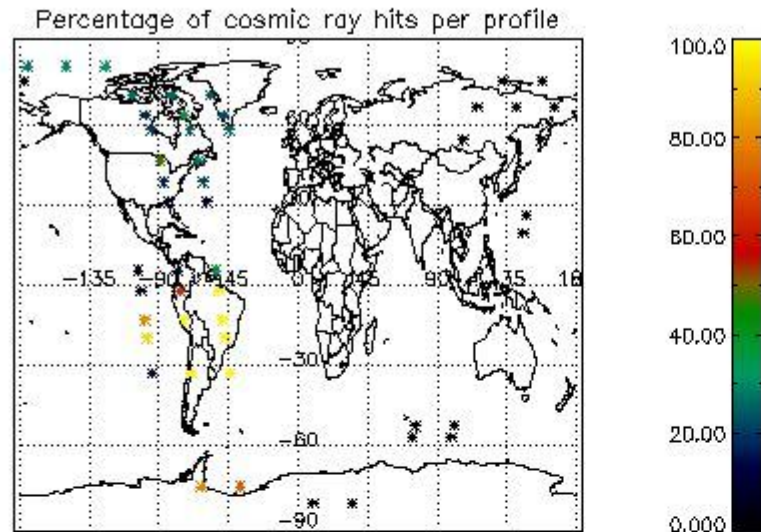
At least one measurement with demodulation flag set:	24.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





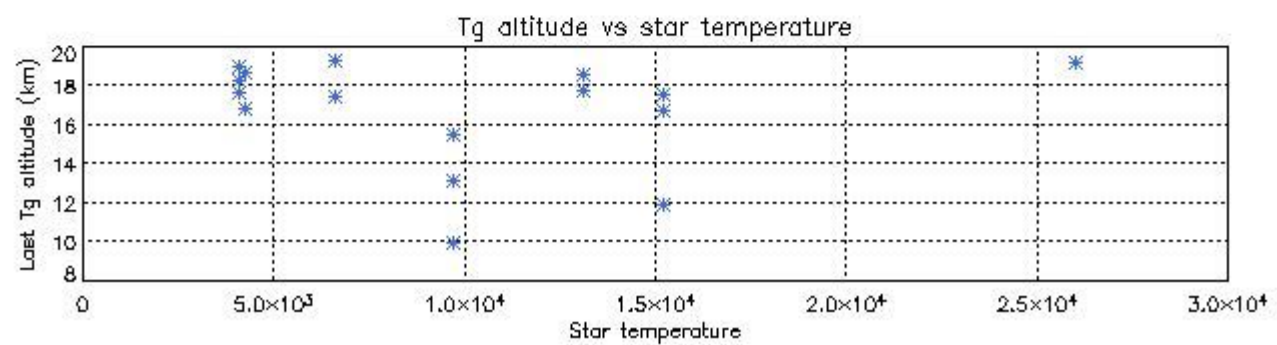
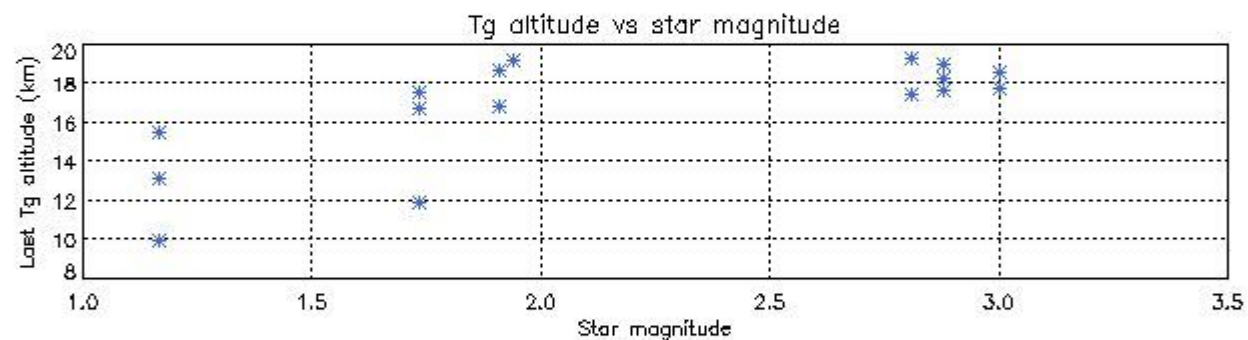
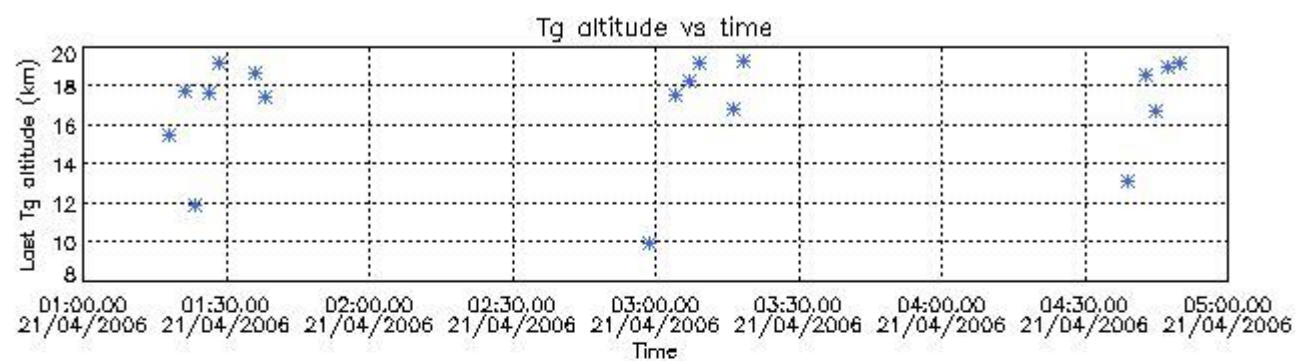
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.981	17.214	15.284
St. deviation:	2.7159	5.5203	5.4682
Maximum:	19.234	26.213	21.077
Minimum:	9.9106	3.3069	4.5672
Number of data:	18.000	23.000	9.0000

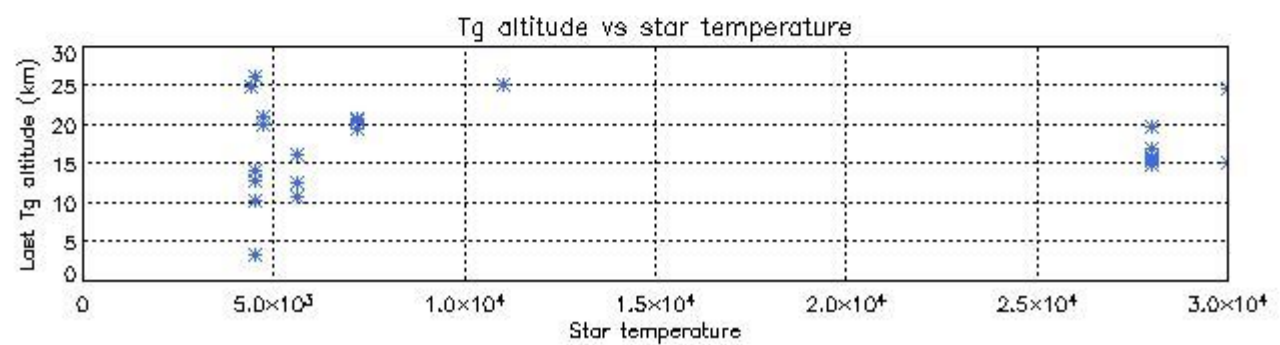
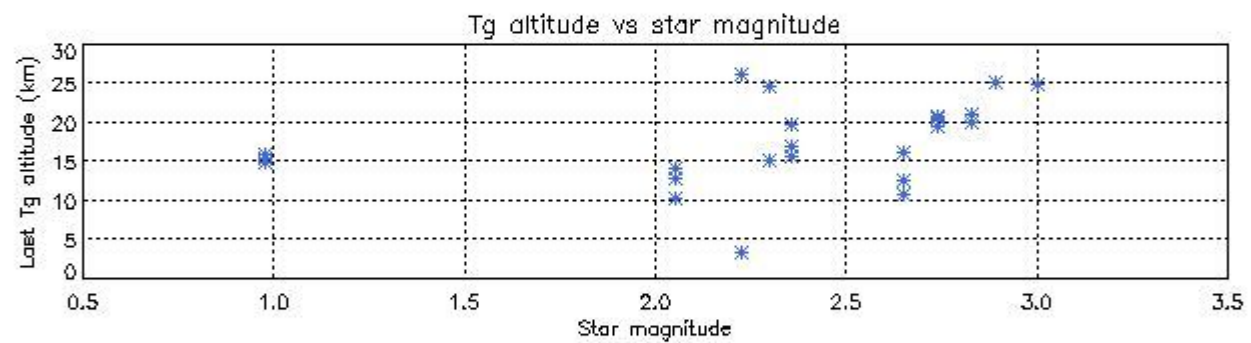
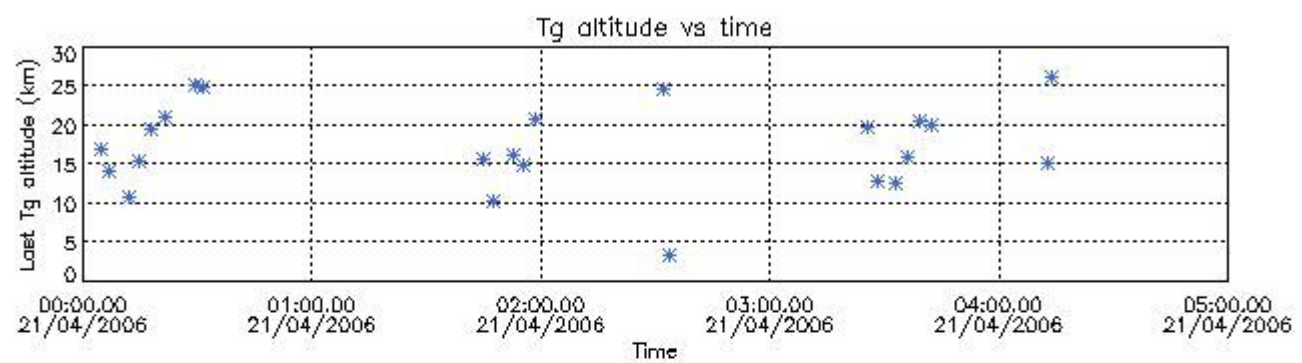
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

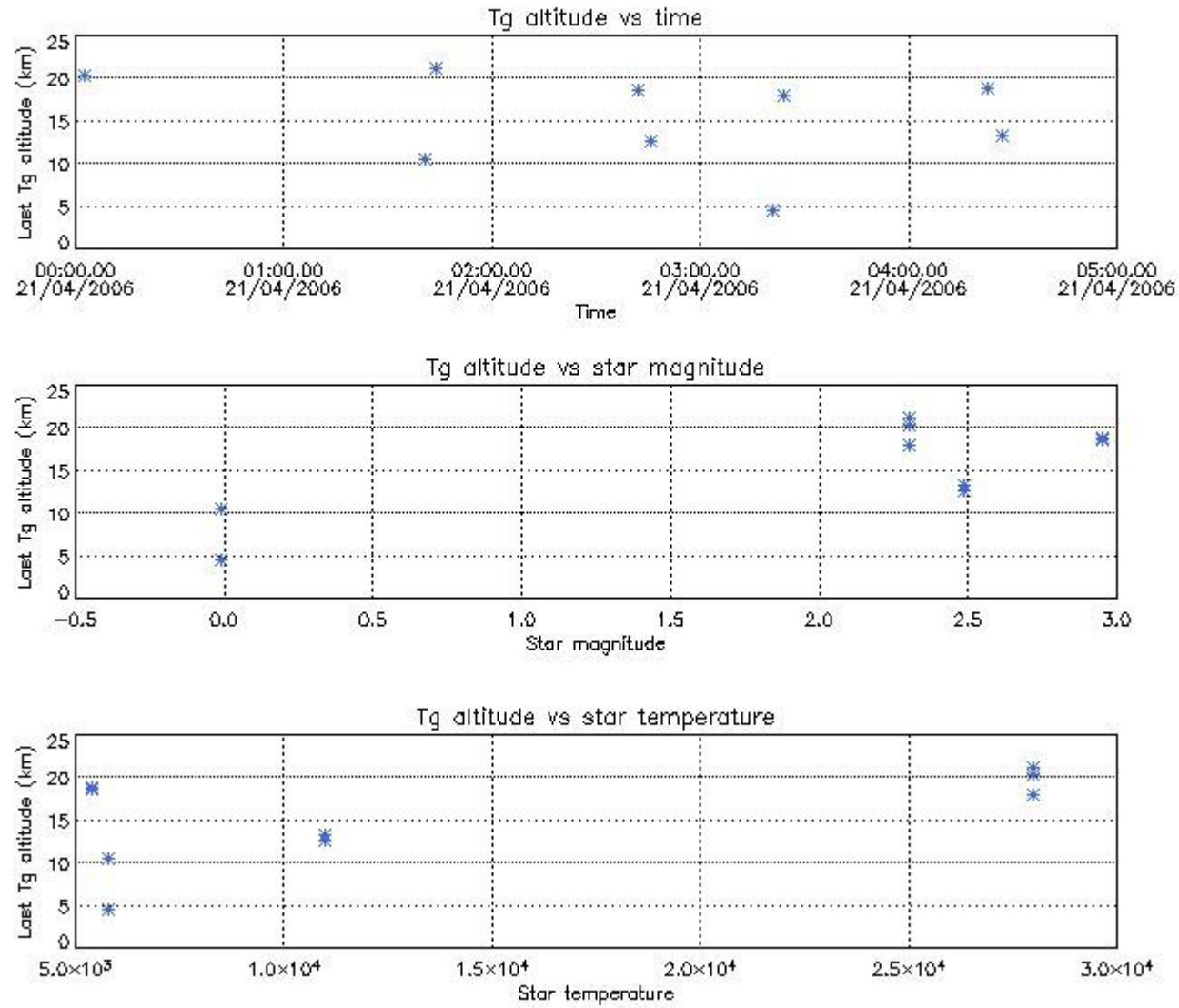
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



## Tangent altitude at which the star is lost



## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

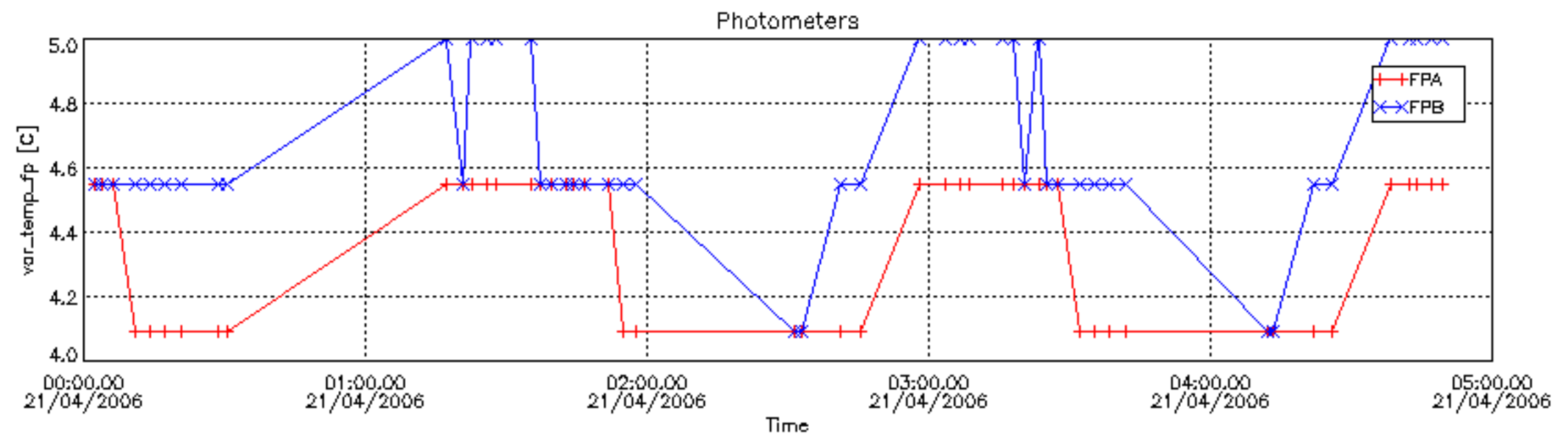
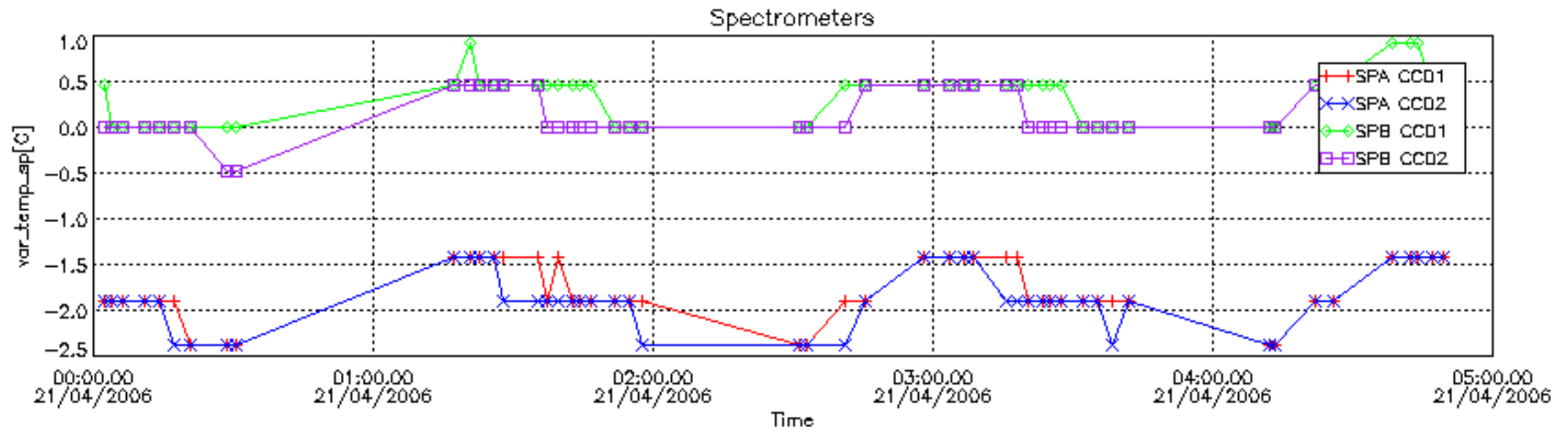
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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.

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.3	1445.5	1461.2	1446.2
St. deviation:	6.0606	13.575	7.0216	13.536
Maximum:	1839.0	1827.0	1522.0	1514.0
Minimum:	1436.0	1417.0	1441.0	1426.0
Number of data:	15750.	15750.	19700.	19700.

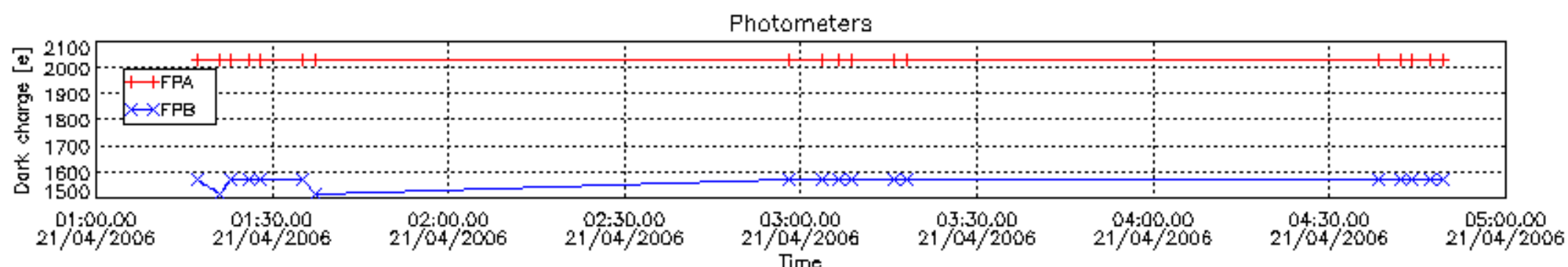
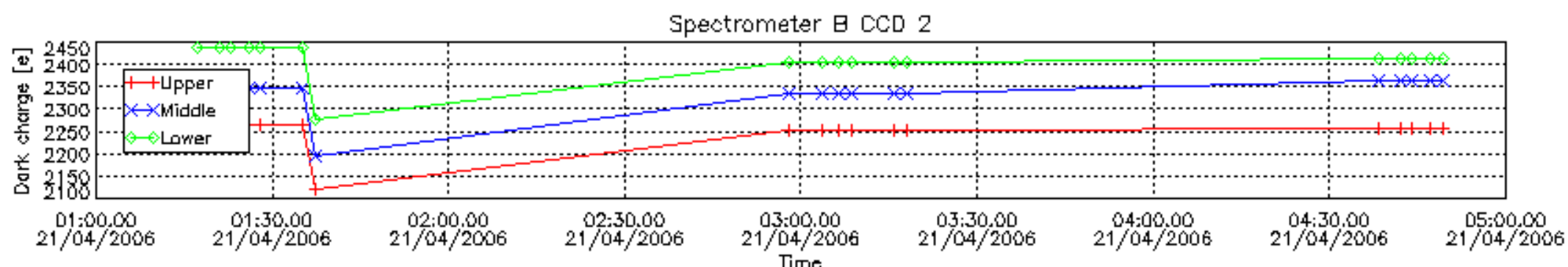
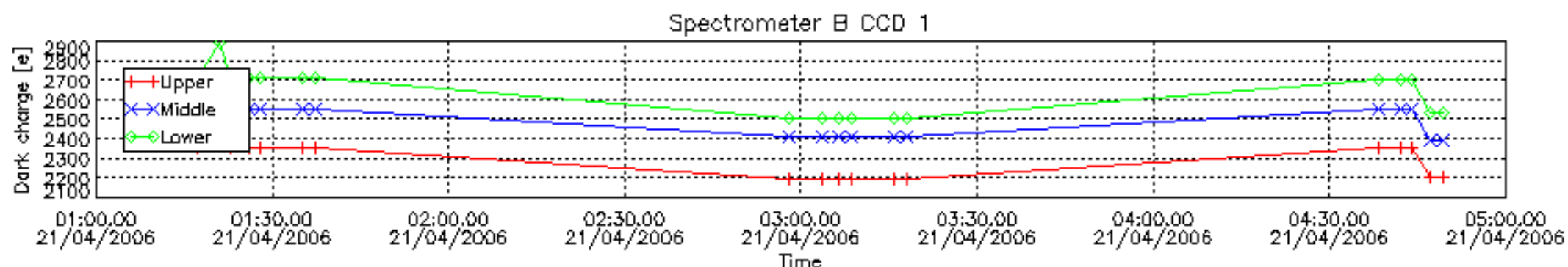
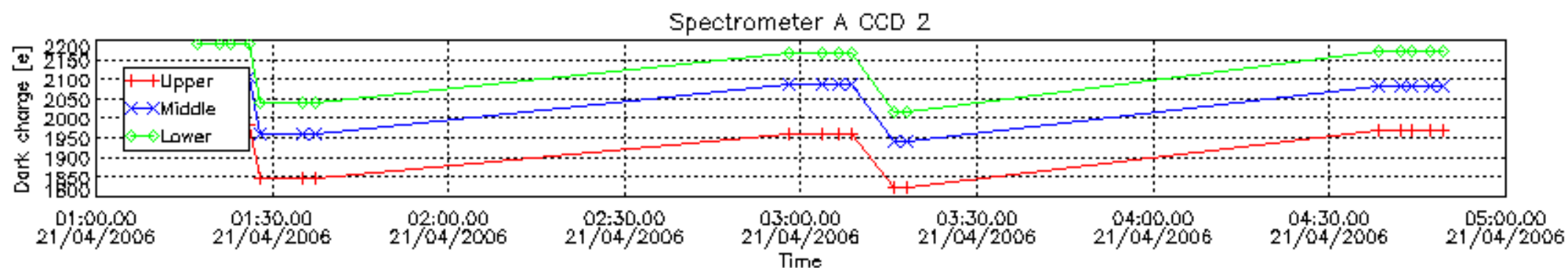
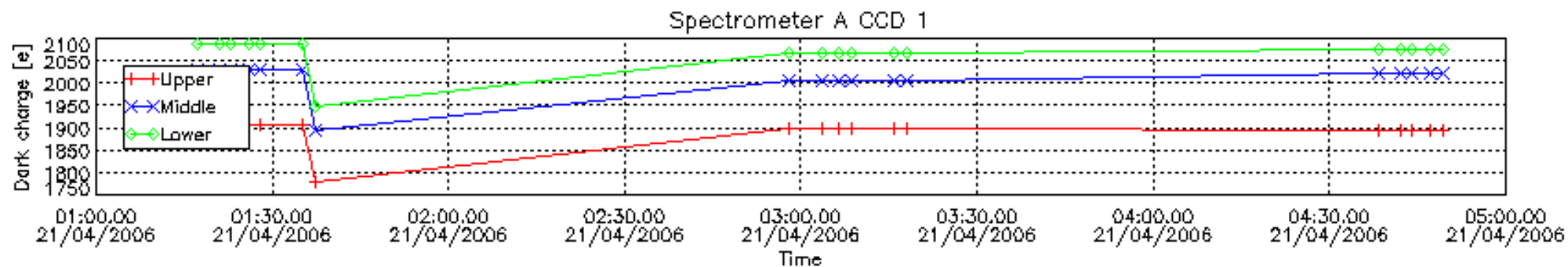
## 8. Auxiliary Data Files used for the production reported in section 2.2

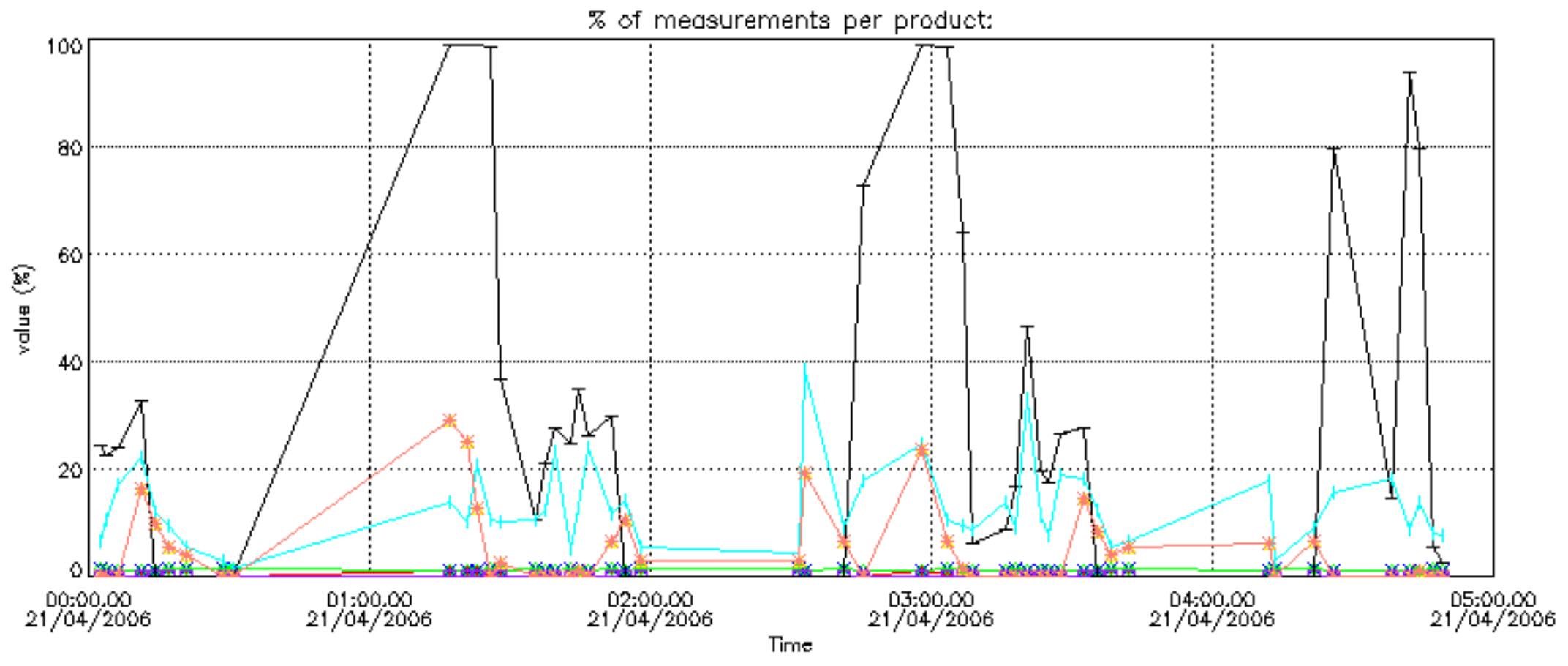
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	21-APR-2006 00:02:18
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060413_081550_20060411_000000_20100101_000000	1	21-APR-2006 00:02:18
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	21-APR-2006 00:02:18
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-APR-2006 00:02:18
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	21-APR-2006 00:02:18
ECMWF_FILE	AUX_ECF_AXNECM20060420_062533_20060420_210000_20060421_090000	1	21-APR-2006 00:02:18
ECMWF_FILE	AUX_ECF_AXNECM20060420_183016_20060421_030000_20060421_150000	42	21-APR-2006 04:12:09
OPTIONAL_ECMWF_FILE	NOT USED	1	21-APR-2006 00:02:18
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060420_235022_20060420_184406_20060430_201021	1	21-APR-2006 00:02:18

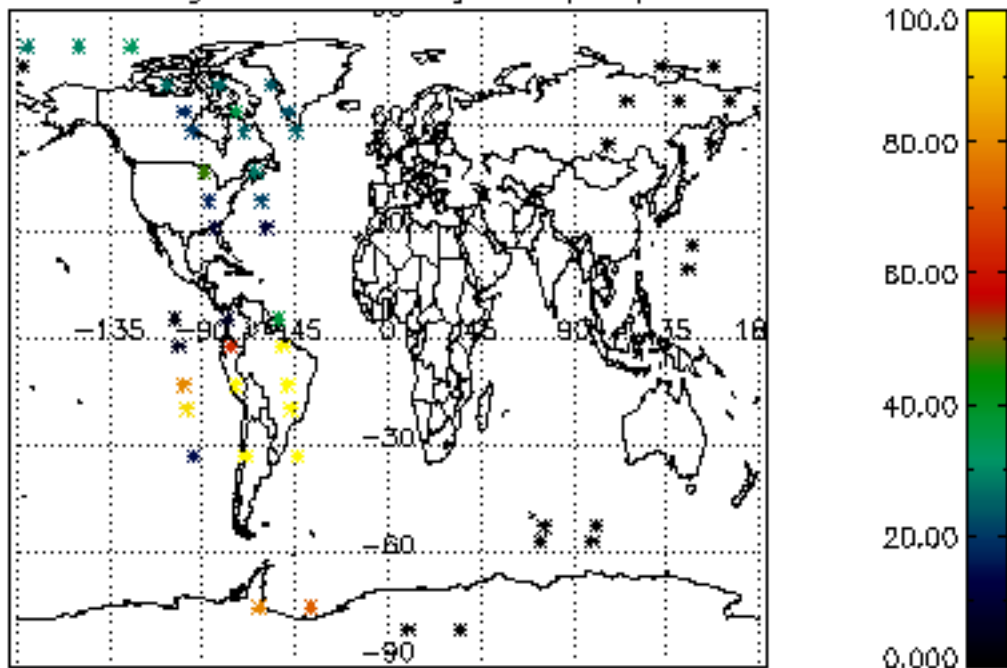




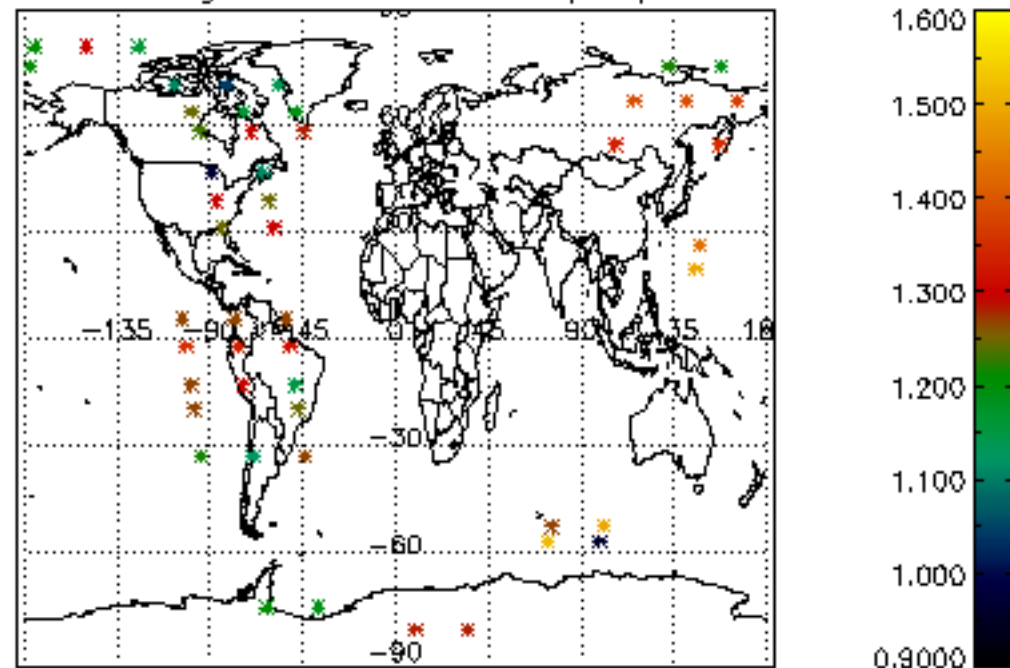




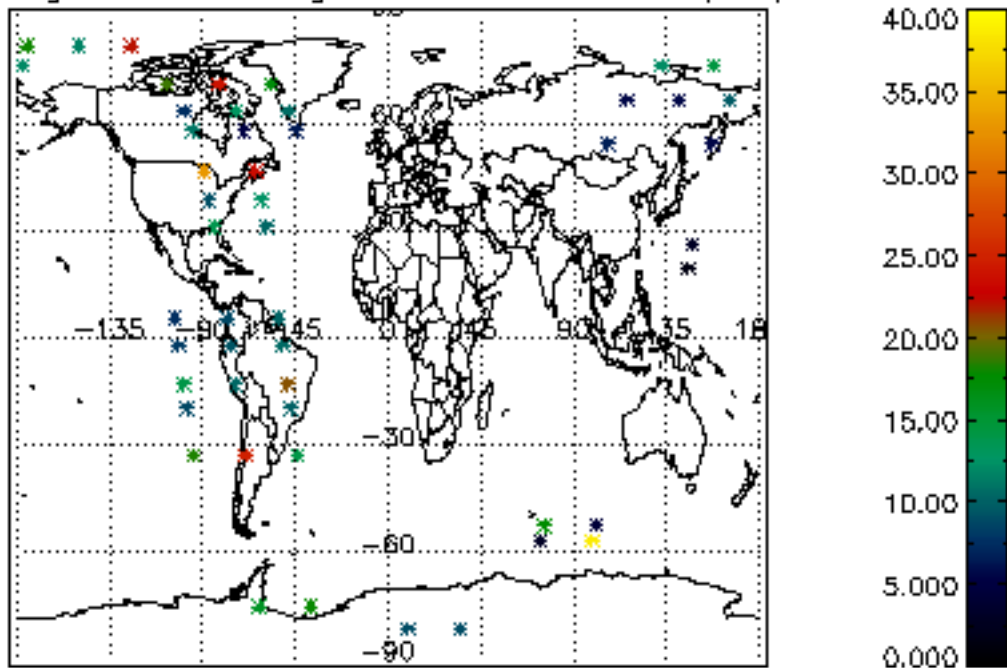
Percentage of cosmic ray hits per profile



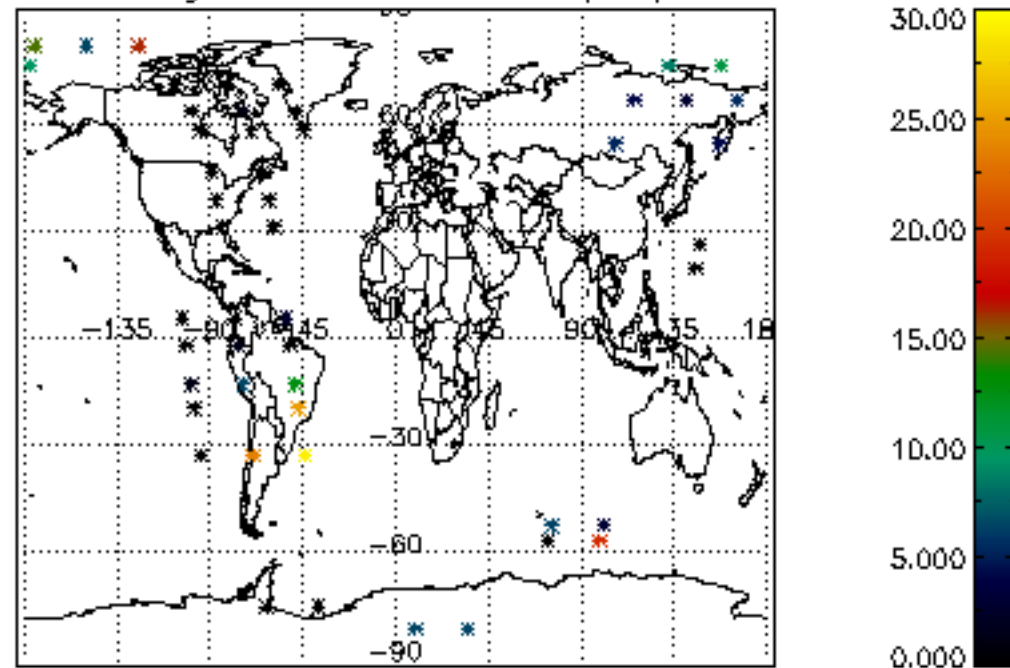
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

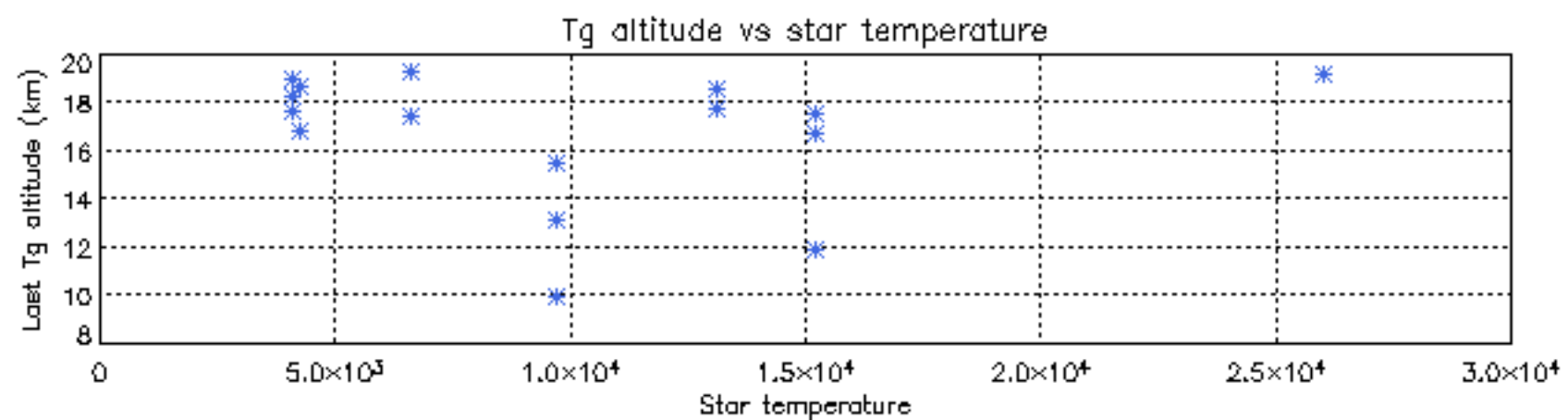
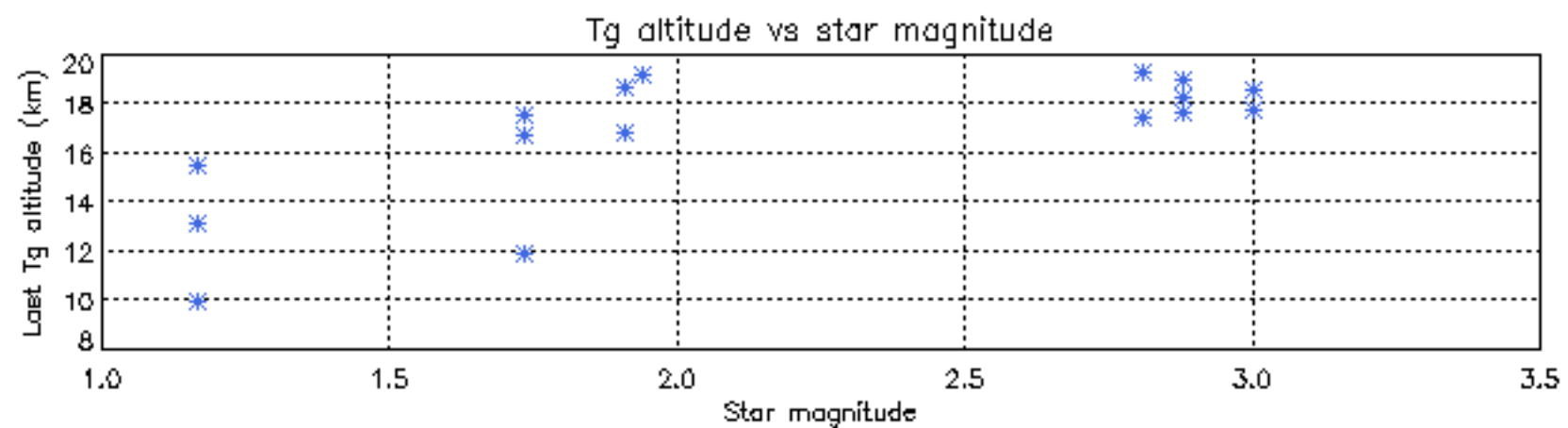
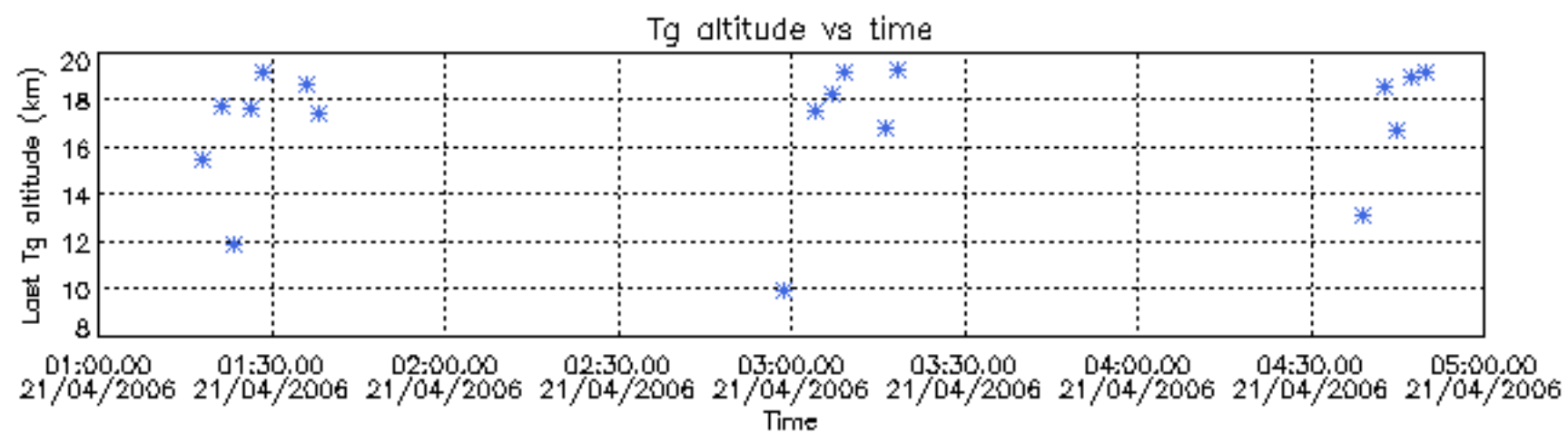


Percentage of saturation errors per profile

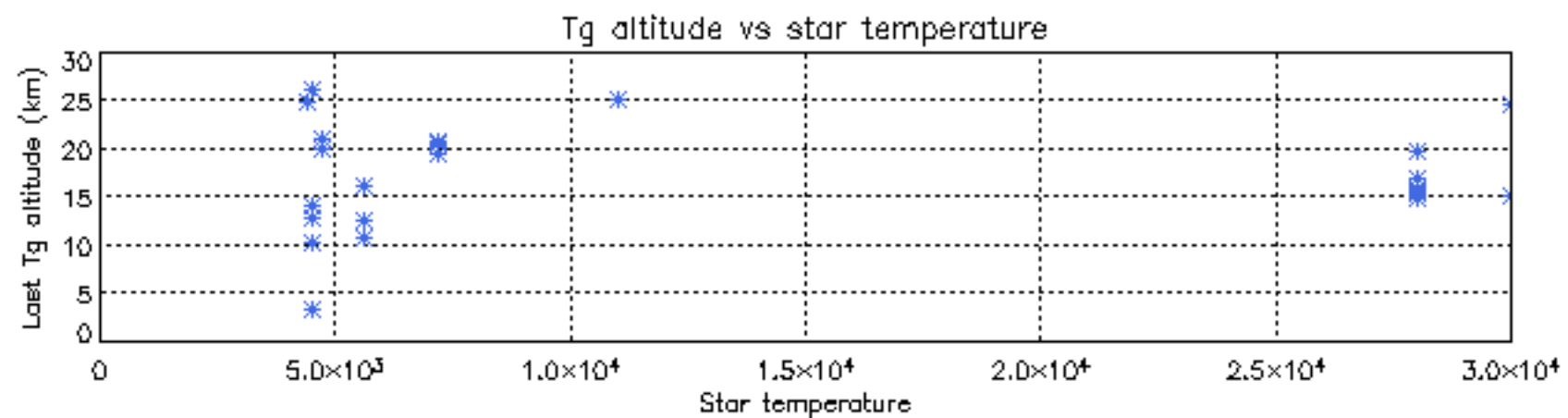
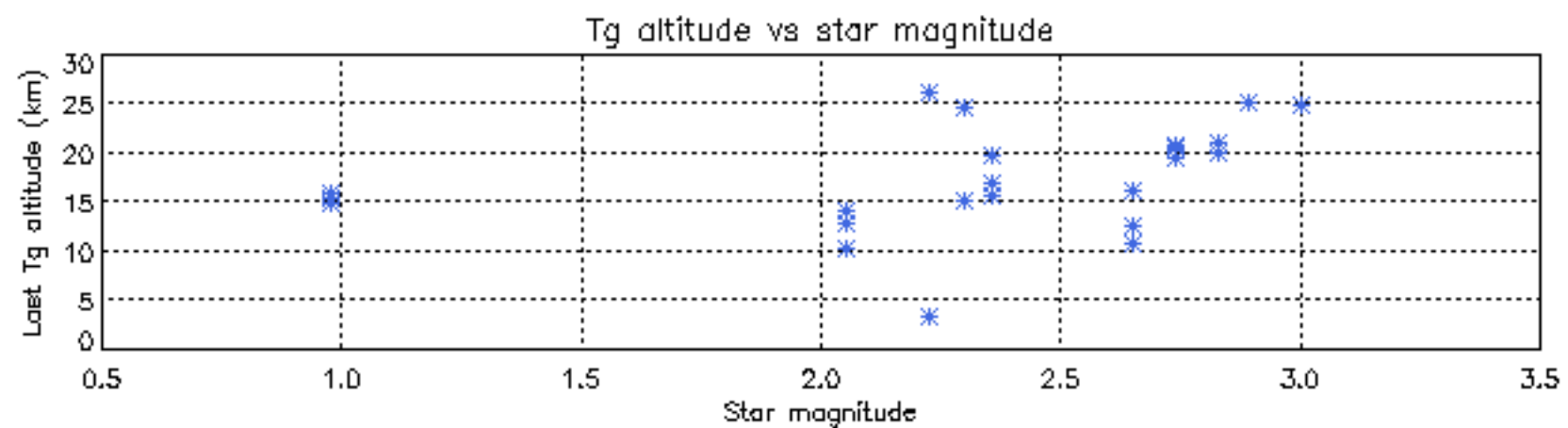
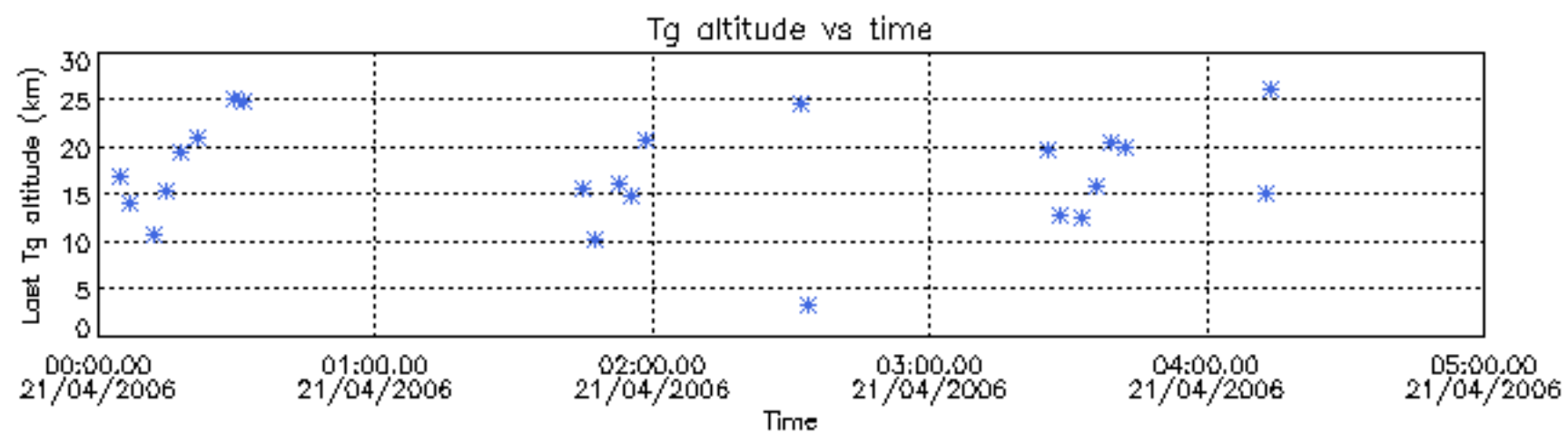




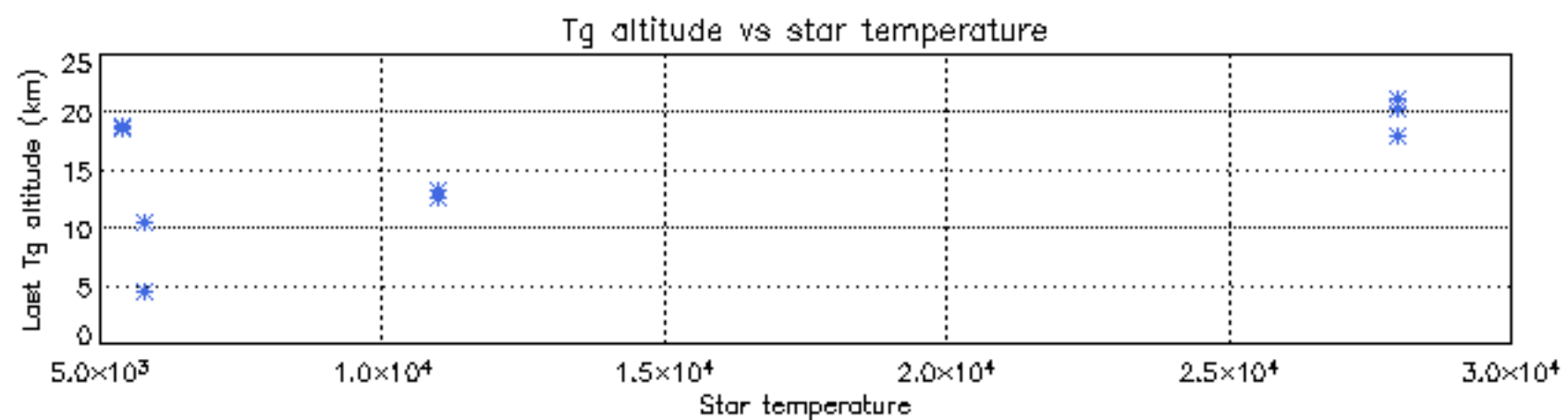
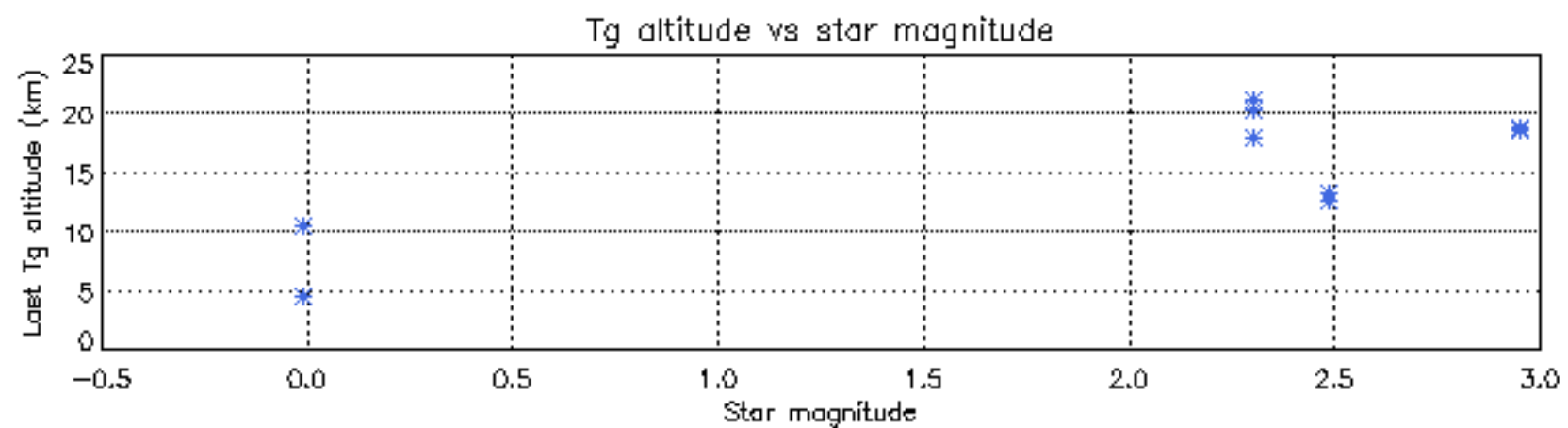
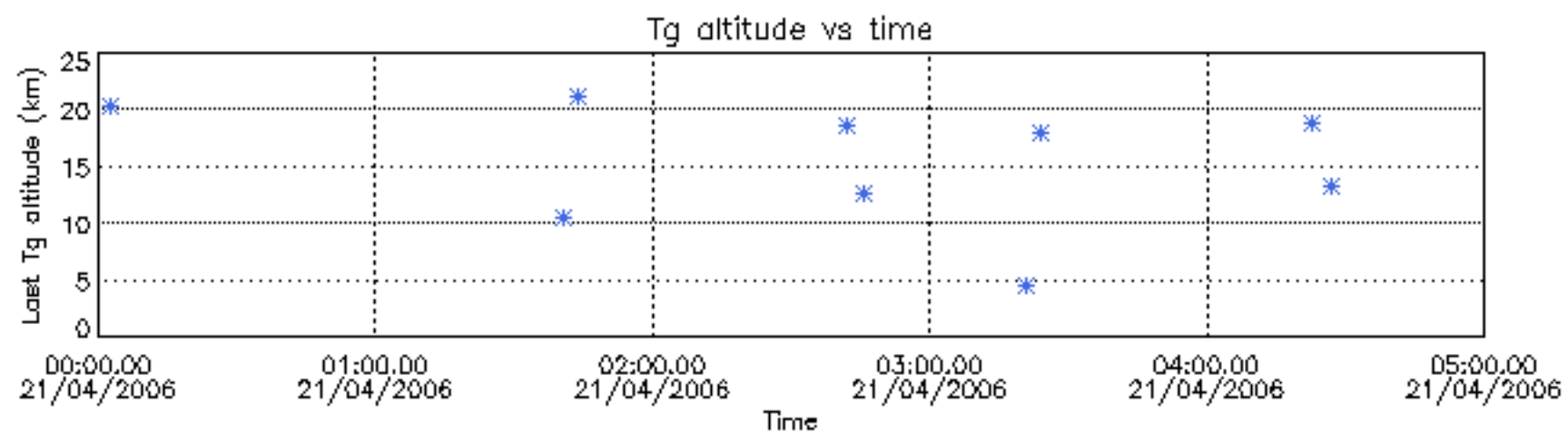
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 3; 514.9; 01-APR-2006 00:23:08; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21356  
 4; 673.5; 01-APR-2006 00:25:46; Dark ; 55.0; 4; Alp1Cen ;-0.01; 5800;occ; 110; 0;21356  
 5; 837.9; 01-APR-2006 00:28:31; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;21356  
 6; 934.0; 01-APR-2006 00:30:07; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;21356  
 7; 1013.9; 01-APR-2006 00:31:27; Dark ; 38.5; 64; Gam Cen ; 2.20; 10600;occ; 77; 0;21356  
 8; 1167.7; 01-APR-2006 00:34:00; Dark ; 44.0; 123; Iot Cen ; 2.75; 10200;occ; 88; 0;21356  
 9; 1459.7; 01-APR-2006 00:38:52; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;21356  
 10; 1577.8; 01-APR-2006 00:40:50; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;21356  
 11; 2160.9; 01-APR-2006 00:50:34; Bright; 39.0; 62; 94Bet Leo ; 2.14; 9700;occ; 78; 0;21356  
 12; 2256.9; 01-APR-2006 00:52:10; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21356  
 13; 2666.3; 01-APR-2006 00:58:59; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;21356  
 14; 2848.6; 01-APR-2006 01:02:01; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;21356  
 15; 2958.0; 01-APR-2006 01:03:51; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;21356  
 16; 3338.5; 01-APR-2006 01:10:11; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;21356  
 17; 3439.7; 01-APR-2006 01:11:52; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;21356  
 18; 3902.0; 01-APR-2006 01:19:35; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;21356  
 19; 4213.6; 01-APR-2006 01:24:46; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;21356  
 20; 4434.0; 01-APR-2006 01:28:27; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;21356  
 21; 4826.3; 01-APR-2006 01:34:59; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;21356  
 22; 5101.6; 01-APR-2006 01:39:34; Dark ; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;21356

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 3; 6368.8; 01-APR-2006 02:00:41; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;21356  
 4; 6551.4; 01-APR-2006 02:03:44; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;21356  
 5; 6709.9; 01-APR-2006 02:06:23; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;21356  
 6; 6874.5; 01-APR-2006 02:09:07; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;21356  
 7; 6970.6; 01-APR-2006 02:10:43; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;21356  
 8; 7050.1; 01-APR-2006 02:12:03; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;21356  
 9; 7204.0; 01-APR-2006 02:14:37; Dark ; 45.0; 123; Iot Cen ; 2.75; 10200;occ; 90; 0;21356  
 10; 7495.8; 01-APR-2006 02:19:28; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;21356  
 11; 7613.8; 01-APR-2006 02:21:26; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;21356  
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 13; 8292.9; 01-APR-2006 02:32:45; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21356  
 14; 8702.1; 01-APR-2006 02:39:35; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;21356  
 15; 8884.4; 01-APR-2006 02:42:37; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;21356  
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 5; -934.0; 01-APR-2006 03:20:10; Dark ; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;21357  
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 7; 333.6; 01-APR-2006 03:41:18; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;21358  
 8; 516.0; 01-APR-2006 03:44:20; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21358  
 9; 674.6; 01-APR-2006 03:46:59; Dark ; 54.5; 4; Alp1Cen ;-0.01; 5800;occ; 109; 0;21358  
 10; 839.3; 01-APR-2006 03:49:44; Dark ; 45.5; 78; Alp Lup ; 2.30; 28000;occ; 91; 0;21358  
 11; 935.4; 01-APR-2006 03:51:20; Dark ; 42.0; 81; Eta Cen ; 2.36; 28000;occ; 84; 0;21358  
 12; 1014.8; 01-APR-2006 03:52:39; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;21358  
 13; 1168.5; 01-APR-2006 03:55:13; Dark ; 45.5; 123; Iot Cen ; 2.75; 10200;occ; 91; 0;21358  
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 16; 2160.8; 01-APR-2006 04:11:45; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;21358  
 17; 2257.1; 01-APR-2006 04:13:22; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21358  
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 21; 3337.9; 01-APR-2006 04:31:22; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;21358  
 22; 3439.9; 01-APR-2006 04:33:04; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;21358

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8; 516.5; 01-APR-2006 05:24:57; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;21359
9; 675.1; 01-APR-2006 05:27:36; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;21359
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12; 1015.0; 01-APR-2006 05:33:16; Dark ; 39.5; 64; Gam Cen ; 2.20; 10600;occ; 79; 0;21359
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15; 1578.3; 01-APR-2006 05:42:39; Dark ; 44.5; 100; 4Gam Crv ; 2.58; 13100;occ; 89; 0;21359
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18; 2666.3; 01-APR-2006 06:00:47; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;21359
19; 2848.1; 01-APR-2006 06:03:49; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;21359
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21; 3337.6; 01-APR-2006 06:11:58; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;21359
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2;-1822.3; 01-APR-2006 06:26:34; Bright; 39.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 79; 0;21359
3;-1601.5; 01-APR-2006 06:30:15; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;21359
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7; 335.0; 01-APR-2006 07:02:32; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;21360
8; 517.1; 01-APR-2006 07:05:34; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21360
9; 675.5; 01-APR-2006 07:08:12; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;21360
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13; 1169.4; 01-APR-2006 07:16:26; Dark ; 44.0; 123; Iot Cen ; 2.75; 10200;occ; 88; 0;21360
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16; 676.0; 01-APR-2006 08:48:48; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;21361
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4; 1580.0; 01-APR-2006 20:48:04; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;21368
5; 2160.3; 01-APR-2006 20:57:44; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21368
6; 2257.5; 01-APR-2006 20:59:21; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21368
7; 2666.2; 01-APR-2006 21:06:10; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;21368
8; 2846.6; 01-APR-2006 21:09:10; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;21368

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9; 2957.9; 01-APR-2006 21:11:02; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0;21368
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12;-1600.9; 01-APR-2006 14:53:15; Bright; 44.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 88; 0;21364
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17; 519.7; 01-APR-2006 15:28:36; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;21365
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 8;-3189.6; 01-APR-2006 17:47:59; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;21366  
 9;-3078.5; 01-APR-2006 17:49:50; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;21366  
 10;-2700.8; 01-APR-2006 17:56:07; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;21366  
 11;-2596.0; 01-APR-2006 17:57:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;21366  
 12;-2134.4; 01-APR-2006 18:05:34; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;21366  
 13;-1822.6; 01-APR-2006 18:10:46; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;21366  
 14;-1600.9; 01-APR-2006 18:14:27; Bright; 42.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 84; 0;21366  
 15;-1206.8; 01-APR-2006 18:21:01; Dark ; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;21366  
 16; -930.7; 01-APR-2006 18:25:38; Dark ; 44.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 89; 0;21366  
 17; -307.3; 01-APR-2006 18:36:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21366  
 18; 340.3; 01-APR-2006 18:46:48; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;21367  
 19; 520.6; 01-APR-2006 18:49:49; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21367  
 20; 678.8; 01-APR-2006 18:52:27; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;21367  
 21; 845.0; 01-APR-2006 18:55:13; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;21367  
 22; 1017.5; 01-APR-2006 18:58:06; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;21367

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 13;-1822.6; 01-APR-2006 19:51:22; Bright; 41.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 83; 0;21367  
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 17; -306.5; 01-APR-2006 20:16:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21367  
 18; 340.9; 01-APR-2006 20:27:25; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;21368  
 19; 521.1; 01-APR-2006 20:30:25; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21368  
 20; 679.2; 01-APR-2006 20:33:03; Dark ; 54.5; 4; Alp1Cen ; -0.01; 5800;occ; 109; 0;21368  
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 3; 522.7; 02-APR-2006 01:32:15; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;21371  
 4; 680.5; 02-APR-2006 01:34:52; Dark ; 48.0; 4; Alp1Cen ;-0.01; 5800;occ; 96; 0;21371  
 5; 847.3; 02-APR-2006 01:37:39; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;21371  
 6; 1018.7; 02-APR-2006 01:40:31; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;21371  
 7; 1173.4; 02-APR-2006 01:43:05; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;21371  
 8; 1462.8; 02-APR-2006 01:47:55; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;21371  
 9; 1579.9; 02-APR-2006 01:49:52; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;21371  
 10; 2159.4; 02-APR-2006 01:59:31; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;21371  
 11; 2257.1; 02-APR-2006 02:01:09; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21371  
 12; 2665.5; 02-APR-2006 02:07:57; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;21371  
 13; 2845.4; 02-APR-2006 02:10:57; Bright; 38.5; 87; 64Gam UMa ; 2.43; 11000;occ; 77; 0;21371  
 14; 2957.1; 02-APR-2006 02:12:49; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;21371  
 15; 3333.6; 02-APR-2006 02:19:05; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;21371  
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 3;-1600.3; 02-APR-2006 02:37:27; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;21371  
 4;-1205.3; 02-APR-2006 02:44:03; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;21371  
 5; -928.8; 02-APR-2006 02:48:39; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;21371  
 6; -303.2; 02-APR-2006 02:59:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21371  
 7; 344.0; 02-APR-2006 03:09:52; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;21372  
 8; 523.3; 02-APR-2006 03:12:51; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;21372  
 9; 681.1; 02-APR-2006 03:15:29; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;21372  
 10; 848.1; 02-APR-2006 03:18:16; Dark ; 46.0; 78; Alp Lup ; 2.30; 28000;occ; 92; 0;21372  
 11; 1019.0; 02-APR-2006 03:21:07; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;21372  
 12; 1174.0; 02-APR-2006 03:23:42; Dark ; 46.0; 123; Iot Cen ; 2.75; 10200;occ; 92; 0;21372  
 13; 1463.1; 02-APR-2006 03:28:31; Dark ; 45.0; 106; 9Bet Crv ; 2.65; 5600;occ; 90; 0;21372  
 14; 1580.1; 02-APR-2006 03:30:28; Dark ; 43.0; 100; 4Gam Crv ; 2.58; 13100;occ; 86; 0;21372  
 15; 2159.4; 02-APR-2006 03:40:07; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21372  
 16; 2257.2; 02-APR-2006 03:41:45; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21372  
 17; 2665.4; 02-APR-2006 03:48:33; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;21372  
 18; 2845.2; 02-APR-2006 03:51:33; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;21372  
 19; 2957.2; 02-APR-2006 03:53:25; Bright; 34.0; 36; 50Alp UMa ; 1.80; 6300;occ; 68; 0;21372  
 20; 3333.3; 02-APR-2006 03:59:41; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;21372  
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 3;-1600.3; 02-APR-2006 04:18:04; Bright; 43.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 87; 0;21372  
 4;-1205.1; 02-APR-2006 04:24:39; Dark ; 43.5; 61; 8Eps Peg ; 2.10; 3900;occ; 87; 0;21372  
 5; -928.4; 02-APR-2006 04:29:15; Dark ; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;21372  
 6; -302.3; 02-APR-2006 04:39:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21372  
 7; 344.6; 02-APR-2006 04:50:28; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;21373  
 8; 523.8; 02-APR-2006 04:53:28; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21373  
 9; 681.5; 02-APR-2006 04:56:05; Dark ; 51.0; 4; Alp1Cen ;-0.01; 5800;occ; 102; 0;21373  
 10; 848.7; 02-APR-2006 04:58:52; Dark ; 45.0; 78; Alp Lup ; 2.30; 28000;occ; 90; 0;21373  
 11; 1019.3; 02-APR-2006 05:01:43; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;21373  
 12; 1174.3; 02-APR-2006 05:04:18; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;21373  
 13; 1463.2; 02-APR-2006 05:09:07; Dark ; 45.5; 106; 9Bet Crv ; 2.65; 5600;occ; 91; 0;21373  
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 17; 2665.4; 02-APR-2006 05:29:09; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;21373  
 18; 2845.0; 02-APR-2006 05:32:09; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;21373  
 19; 2957.2; 02-APR-2006 05:34:01; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;21373  
 20; 3333.0; 02-APR-2006 05:40:17; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;21373  
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 5; 5107.9; 02-APR-2006 06:09:52; Dark ; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;21373  
 6; 5734.6; 02-APR-2006 06:20:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21373



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9; 6718.0; 02-APR-2006 06:36:42; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;21373
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12; 7210.8; 02-APR-2006 06:44:55; Dark ; 44.5; 123; Tot Cen ; 2.75; 10200;occ; 89; 0;21373
13; 7499.4; 02-APR-2006 06:49:43; Dark ; 44.5; 106; 9Bet Crv ; 2.65; 5600;occ; 89; 0;21373
14; 7616.4; 02-APR-2006 06:51:40; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;21373
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16; 8293.2; 02-APR-2006 07:02:57; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21373
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3; 1111.8; 02-APR-2006 20:08:39; Dark ; 26.0; 54; 5The Cen ; 2.06; 4500;occ; 52; 0;21382
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5; 1435.3; 02-APR-2006 20:14:03; Dark ; 27.0; 169; 46Gam Hya ; 2.99; 4700;occ; 54; 0;21382
6; 1495.0; 02-APR-2006 20:15:03; Dark ; 44.0; 171; 2Eps Crv ; 3.00; 4250;occ; 88; 0;21382
7; 1581.4; 02-APR-2006 20:16:29; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;21382
8; 1880.6; 02-APR-2006 20:21:28; Bright; 42.0; 121; 29Gam Vir ; 2.74; 7200;occ; 84; 0;21382
9; 2158.4; 02-APR-2006 20:26:06; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21382
10; 2257.1; 02-APR-2006 20:27:45; Bright; 50.0; 96; 68Del Leo ; 2.56; 9300;occ; 100; 0;21382
11; 2664.8; 02-APR-2006 20:34:32; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;21382
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13; 2956.6; 02-APR-2006 20:39:24; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;21382
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17; 4212.8; 02-APR-2006 21:00:20; Bright; 40.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 80; 0;21382
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7; 1112.4; 02-APR-2006 21:49:16; Dark ; 26.0; 54; 5The Cen ; 2.06; 4500;occ; 52; 0;21383
8; 1178.0; 02-APR-2006 21:50:21; Dark ; 43.0; 123; Tot Cen ; 2.75; 10200;occ; 86; 0;21383
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13; 8192.9; 04-APR-2006 02:36:51; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;21399
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 25; 810.1; 25-APR-2006 19:40:44; Dark ; 49.0; 4; Alp1Cen ; -0.01; 5800;occ; 98; 0;21711

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 7; 6585.1; 25-APR-2006 22:57:35; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;21712  
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 19; 9015.6; 25-APR-2006 23:38:05; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;21712  
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 23;10027.3; 25-APR-2006 23:54:57; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;21712  
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 5; 134.1; 26-APR-2006 00:31:16; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;21714  
 6; 549.4; 26-APR-2006 00:38:11; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;21714  
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 9; 1011.9; 26-APR-2006 00:45:53; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;21714  
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 6; 6170.6; 26-APR-2006 02:11:52; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;21714  
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 12; 7272.3; 26-APR-2006 02:30:14; Dark ; 39.5; 54; 5The Cen ; 2.06; 4500;occ; 79; 0;21714  
 13; 7535.7; 26-APR-2006 02:34:37; Dark ; 44.0; 169; 46Gam Hya ; 2.99; 4700;occ; 88; 0;21714  
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 22; 9479.6; 26-APR-2006 03:07:01; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;21714

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 26; 9479.7; 26-APR-2006 04:47:37; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;21715

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16; 4755.4; 26-APR-2006 21:55:28; Dark ; 41.0; 90; 54Alp Peg ; 2.49; 11000;occ; 82; 0;21726
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