

# GOMOS Daily Report 30-APR-2006

## Level 0 and Level 1 products

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## [Level 2 products](#)

### 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	02MAY2006 04:32:32

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (30APR2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (01MAY2006 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)

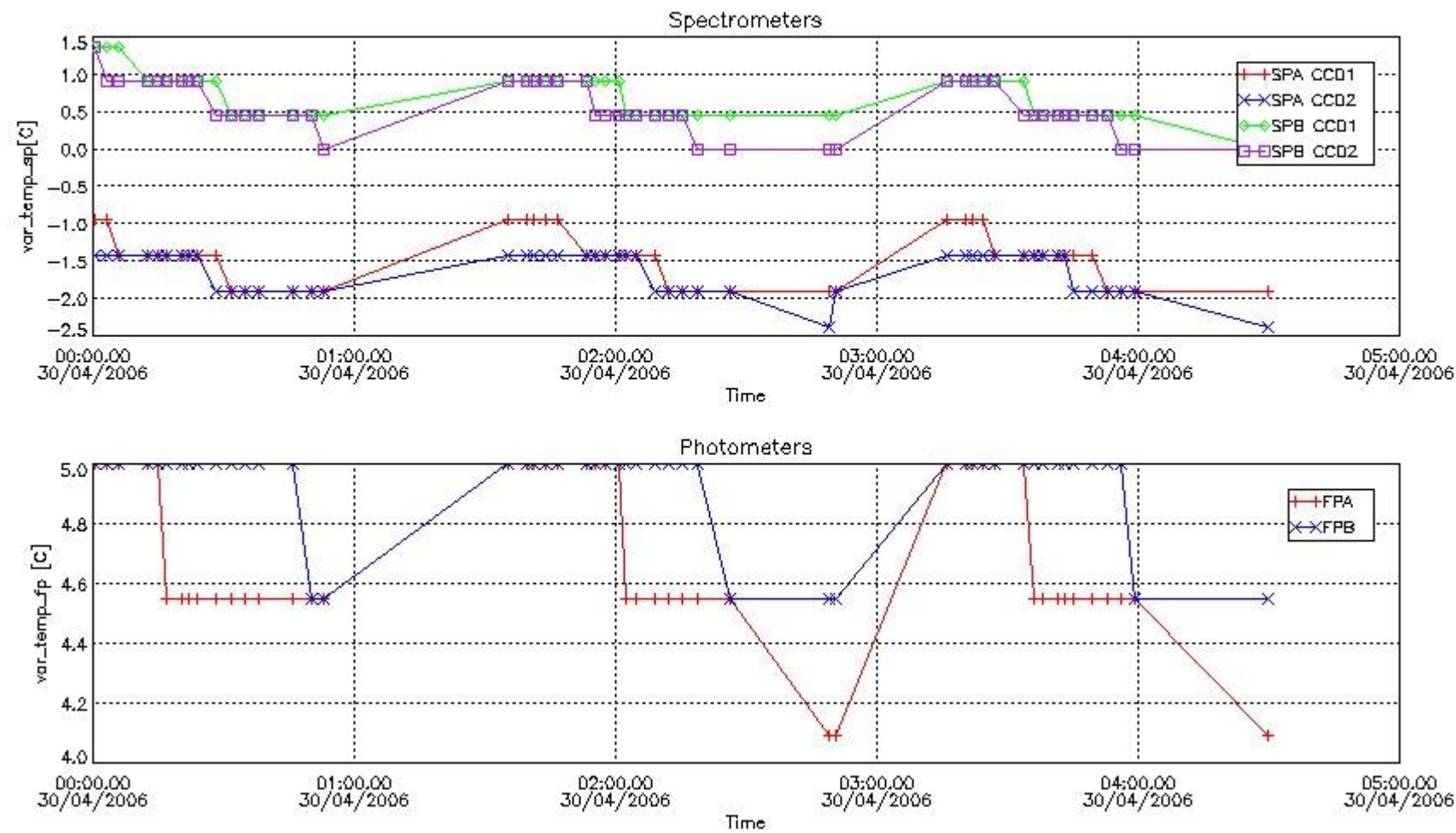
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060430_000033_000000402047_00173_21770_0001.N1	30-APR-2006 00:00:33	Dark	40.000	31	Alp Gru	1.7340	15200.	80	21770	No
2	GOM_TRA_1PNPDE20060430_000313_000000412047_00174_21771_0002.N1	30-APR-2006 00:03:13	Dark	40.500	148	Alp Tuc	2.8780	4100.0	81	21771	No
3	GOM_TRA_1PNPDE20060430_000600_000000432047_00174_21771_0003.N1	30-APR-2006 00:06:00	Dark	42.500	45	Alp Pav	1.9400	26000.	85	21771	No
4	GOM_TRA_1PNPDE20060430_001241_000000442047_00174_21771_0004.N1	30-APR-2006 00:12:41	Dark	43.500	43	Alp TrA	1.9100	4250.0	87	21771	No
5	GOM_TRA_1PNPDE20060430_001452_000000382047_00174_21771_0005.N1	30-APR-2006 00:14:52	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	21771	No
6	GOM_TRA_1PNPDE20060430_001657_000000532047_00174_21771_0006.N1	30-APR-2006 00:16:57	Twilight	52.500	4	Alp1Cen	-0.010000	5800.0	105	21771	No
7	GOM_TRA_1PNPDE20060430_002022_000000422047_00174_21771_0007.N1	30-APR-2006 00:20:22	Bright	42.000	78	Alp Lup	2.3040	28000.	84	21771	No
8	GOM_TRA_1PNPDE20060430_002155_000000422047_00174_21771_0008.N1	30-APR-2006 00:21:55	Bright	41.500	81	Eta Cen	2.3560	28000.	83	21771	No
9	GOM_TRA_1PNPDE20060430_002401_000000432047_00174_21771_0009.N1	30-APR-2006 00:24:01	Bright	43.000	54	5The Cen	2.0550	4500.0	86	21771	No
10	GOM_TRA_1PNPDE20060430_002819_000000482047_00174_21771_0010.N1	30-APR-2006 00:28:19	Bright	48.000	169	46Gam Hya	2.9910	4700.0	96	21771	No
11	GOM_TRA_1PNPDE20060430_003140_000000392047_00174_21771_0011.N1	30-APR-2006 00:31:40	Bright	39.000	15	67Alp Vir	0.97600	28000.	78	21771	No
12	GOM_TRA_1PNPDE20060430_003443_000000352047_00174_21771_0012.N1	30-APR-2006 00:34:43	Bright	35.000	121	29Gam Vir	2.7400	7200.0	70	21771	No
13	GOM_TRA_1PNPDE20060430_003804_000000352047_00174_21771_0013.N1	30-APR-2006 00:38:04	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	21771	No
14	GOM_TRA_1PNPDE20060430_004550_000000352047_00174_21771_0014.N1	30-APR-2006 00:45:50	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	21771	No
15	GOM_TRA_1PNPDE20060430_005020_000000342047_00174_21771_0015.N1	30-APR-2006 00:50:20	Bright	34.000	87	64Gam UMa	2.4330	11000.	68	21771	No
16	GOM_TRA_1PNPDE20060430_005302_000000372047_00174_21771_0016.N1	30-APR-2006 00:53:02	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	21771	No
17	GOM_TRA_1PNPDE20060430_013524_000000452047_00174_21771_0000.N1	30-APR-2006 01:35:24	Dark	45.000	18	24Alp PsA	1.1660	9700.0	90	21771	No
18	GOM_TRA_1PNPDE20060430_013936_000000402047_00174_21771_0001.N1	30-APR-2006 01:39:36	Dark	40.000	172	Gam Gru	3.0030	13100.	80	21771	No
19	GOM_TRA_1PNPDE20060430_014109_000000402047_00174_21771_0002.N1	30-APR-2006 01:41:09	Dark	39.500	31	Alp Gru	1.7340	15200.	79	21771	No
20	GOM_TRA_1PNPDE20060430_014349_000000442047_00175_21772_0003.N1	30-APR-2006 01:43:49	Dark	43.500	148	Alp Tuc	2.8780	4100.0	87	21772	No
21	GOM_TRA_1PNPDE20060430_014636_000000392047_00175_21772_0004.N1	30-APR-2006 01:46:36	Dark	39.000	45	Alp Pav	1.9400	26000.	78	21772	No
22	GOM_TRA_1PNPDE20060430_015317_000000432047_00175_21772_0005.N1	30-APR-2006 01:53:17	Dark	42.500	43	Alp TrA	1.9100	4250.0	85	21772	No
23	GOM_TRA_1PNPDE20060430_015529_000000392047_00175_21772_0006.N1	30-APR-2006 01:55:29	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	21772	No
24	GOM_TRA_1PNPDE20060430_015734_000000442047_00175_21772_0007.N1	30-APR-2006 01:57:34	Twilight	43.500	4	Alp1Cen	-0.010000	5800.0	87	21772	No
25	GOM_TRA_1PNPDE20060430_020058_000000402047_00175_21772_0008.N1	30-APR-2006 02:00:58	Bright	39.500	78	Alp Lup	2.3040	28000.	79	21772	No
26	GOM_TRA_1PNPDE20060430_020231_000000422047_00175_21772_0009.N1	30-APR-2006 02:02:31	Bright	42.000	81	Eta Cen	2.3560	28000.	84	21772	No
27	GOM_TRA_1PNPDE20060430_020437_000000422047_00175_21772_0010.N1	30-APR-2006 02:04:37	Bright	42.000	54	5The Cen	2.0550	4500.0	84	21772	No
28	GOM_TRA_1PNPDE20060430_020855_000000402047_00175_21772_0011.N1	30-APR-2006 02:08:55	Bright	40.000	169	46Gam Hya	2.9910	4700.0	80	21772	No
29	GOM_TRA_1PNPDE20060430_021216_000000392047_00175_21772_0012.N1	30-APR-2006 02:12:16	Bright	38.500	15	67Alp Vir	0.97600	28000.	77	21772	No
30	GOM_TRA_1PNPDE20060430_021519_000000362047_00175_21772_0013.N1	30-APR-2006 02:15:19	Bright	35.500	121	29Gam Vir	2.7400	7200.0	71	21772	No
31	GOM_TRA_1PNPDE20060430_021840_000000362047_00175_21772_0014.N1	30-APR-2006 02:18:40	Bright	35.500	138	47Eps Vir	2.8280	4700.0	71	21772	No
32	GOM_TRA_1PNPDE20060430_022625_000000362047_00175_21772_0015.N1	30-APR-2006 02:26:25	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	21772	No
33	GOM_TRA_1PNPDE20060430_024901_000000312047_00175_21772_0000.N1	30-APR-2006 02:49:01	Bright	31.000	110	37Del Cas	2.6780	8900.0	62	21772	No
34	GOM_TRA_1PNPDE20060430_025024_000000362047_00175_21772_0001.N1	30-APR-2006 02:50:24	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	21772	No
35	GOM_TRA_1PNPDE20060430_031601_000000402047_00175_21772_0002.N1	30-APR-2006 03:16:01	Dark	40.000	18	24Alp PsA	1.1660	9700.0	80	21772	No
36	GOM_TRA_1PNPDE20060430_032012_000000422047_00175_21772_0003.N1	30-APR-2006 03:20:12	Dark	41.500	172	Gam Gru	3.0030	13100.	83	21772	No
37	GOM_TRA_1PNPDE20060430_032146_000000392047_00175_21772_0004.N1	30-APR-2006 03:21:46	Dark	39.000	31	Alp Gru	1.7340	15200.	78	21772	No
38	GOM_TRA_1PNPDE20060430_032426_000000432047_00176_21773_0005.N1	30-APR-2006 03:24:26	Dark	43.000	148	Alp Tuc	2.8780	4100.0	86	21773	No
39	GOM_TRA_1PNPDE20060430_032713_000000412047_00176_21773_0006.N1	30-APR-2006 03:27:13	Dark	41.000	45	Alp Pav	1.9400	26000.	82	21773	No
40	GOM_TRA_1PNPDE20060430_033353_000000502047_00176_21773_0007.N1	30-APR-2006 03:33:53	Dark	49.500	43	Alp TrA	1.9100	4250.0	99	21773	No
41	GOM_TRA_1PNPDE20060430_033605_000000402047_00176_21773_0008.N1	30-APR-2006 03:36:05	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	21773	No
42	GOM_TRA_1PNPDE20060430_033810_000000452047_00176_21773_0009.N1	30-APR-2006 03:38:10	Twilight	44.500	4	Alp1Cen	-0.010000	5800.0	89	21773	No
43	GOM_TRA_1PNPDE20060430_034134_000000402047_00176_21773_0010.N1	30-APR-2006 03:41:34	Bright	39.500	78	Alp Lup	2.3040	28000.	79	21773	No
44	GOM_TRA_1PNPDE20060430_034307_000000422047_00176_21773_0011.N1	30-APR-2006 03:43:07	Bright	41.500	81	Eta Cen	2.3560	28000.	83	21773	No
45	GOM_TRA_1PNPDE20060430_034514_000000442047_00176_21773_0012.N1	30-APR-2006 03:45:14	Bright	43.500	54	5The Cen	2.0550	4500.0	87	21773	No
46	GOM_TRA_1PNPDE20060430_034932_000000422047_00176_21773_0013.N1	30-APR-2006 03:49:32	Bright	42.000	169	46Gam Hya	2.9910	4700.0	84	21773	No

47	GOM_TRA_1PNPDE20060430_035252_000000392047_00176_21773_0014.N1	30-APR-2006 03:52:52	Bright	39.000	15	67Alp Vir	0.97600	28000.	78	21773	No
48	GOM_TRA_1PNPDE20060430_035556_000000362047_00176_21773_0015.N1	30-APR-2006 03:55:56	Bright	35.500	121	29Gam Vir	2.7400	7200.0	71	21773	No
49	GOM_TRA_1PNPDE20060430_035916_000000362047_00176_21773_0016.N1	30-APR-2006 03:59:16	Bright	35.500	138	47Eps Vir	2.8280	4700.0	71	21773	No
50	GOM_TRA_1PNPDE20060430_042937_000000352047_00176_21773_0000.N1	30-APR-2006 04:29:37	Bright	34.500	110	37Del Cas	2.6780	8900.0	69	21773	No

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



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

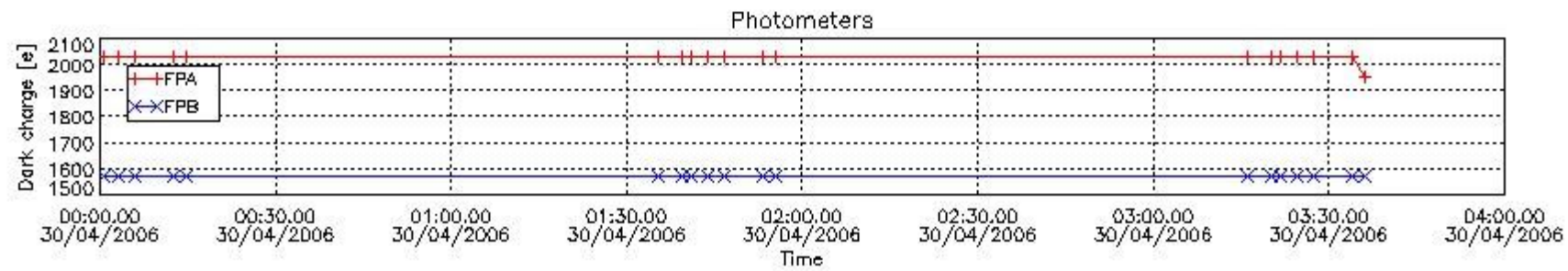
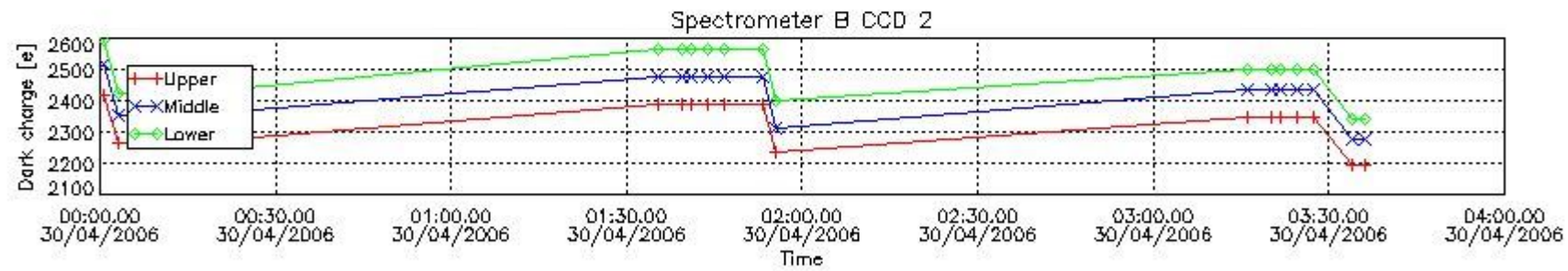
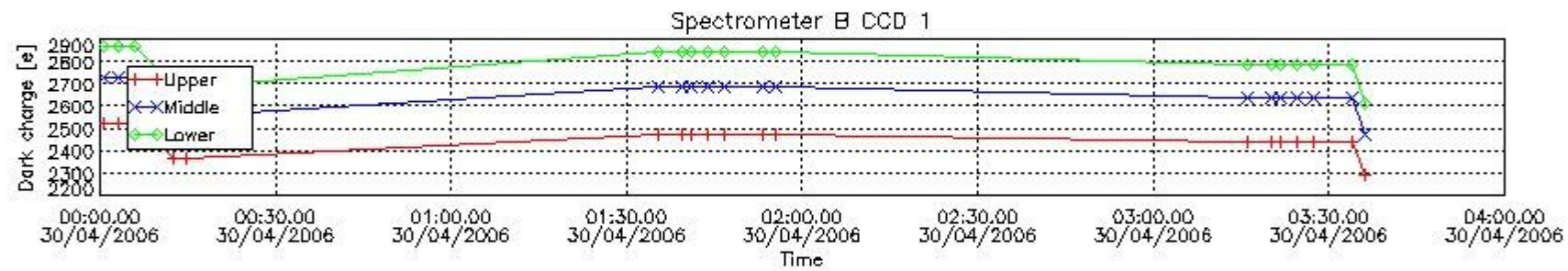
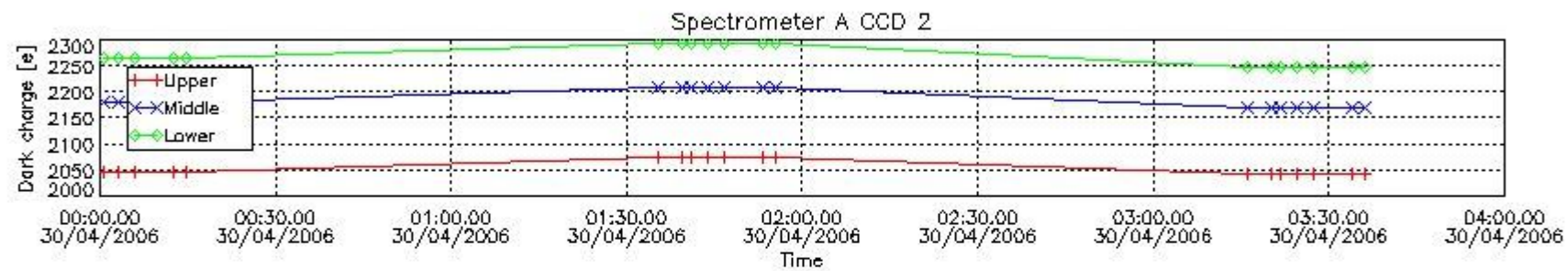
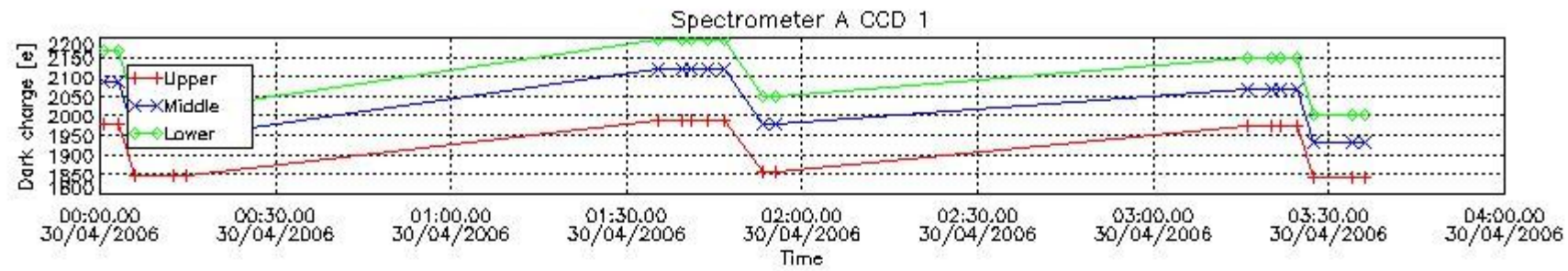
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





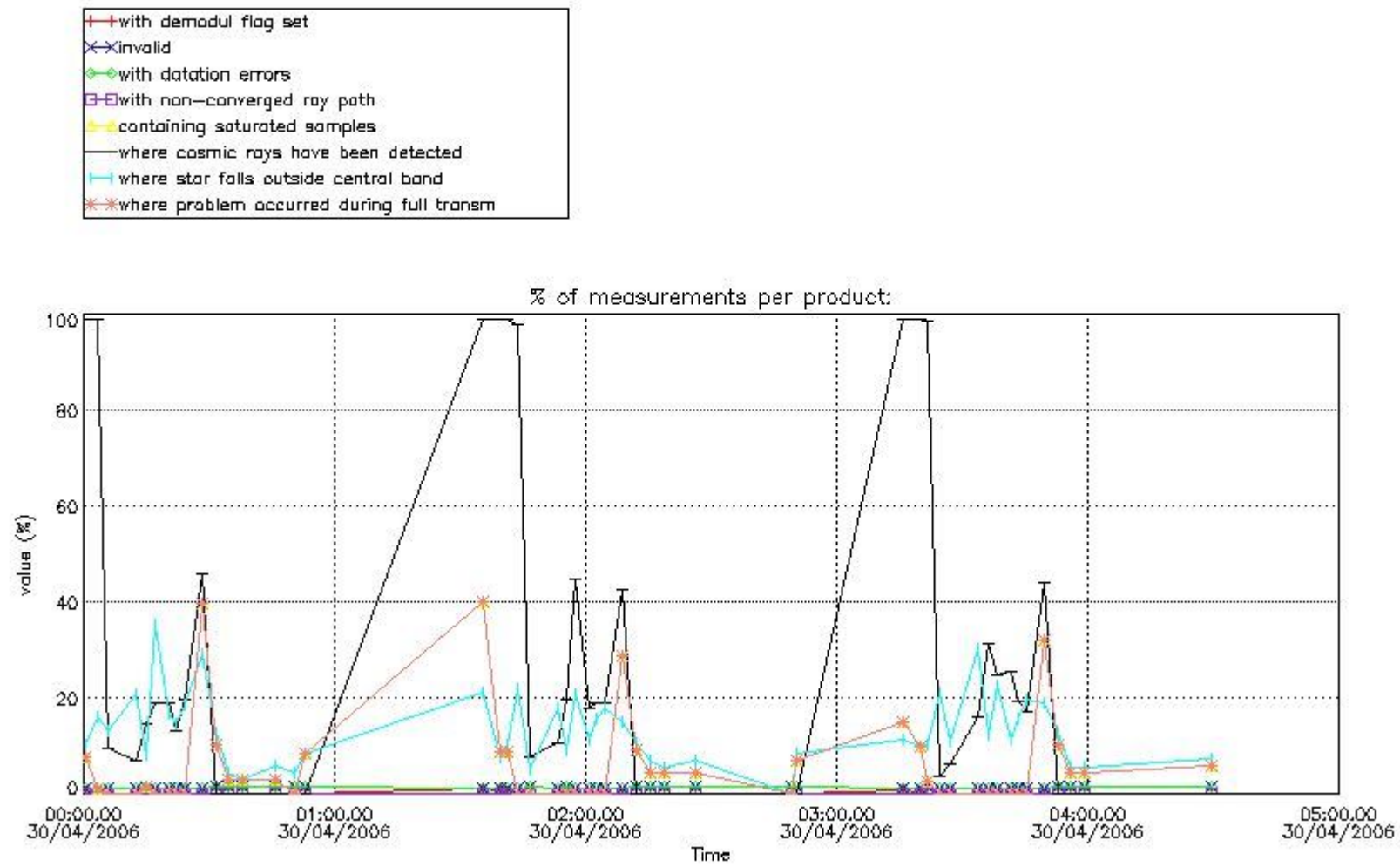
## 5. Demodulation flag and quality information monitoring

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:

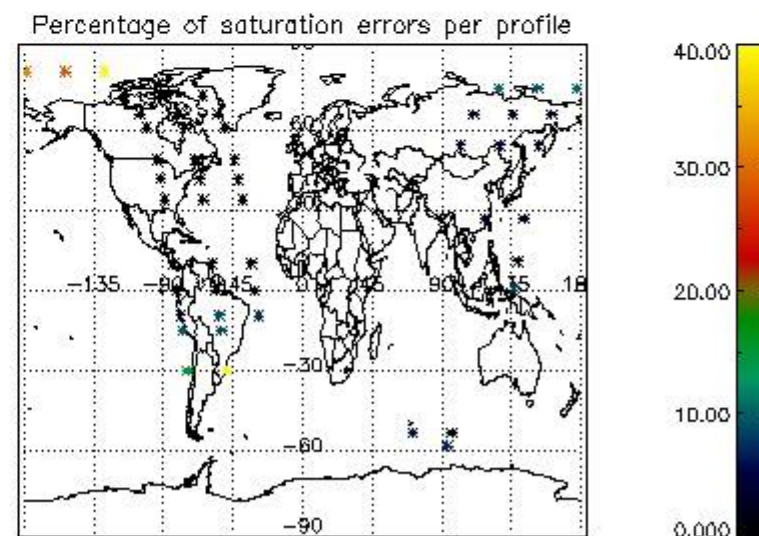
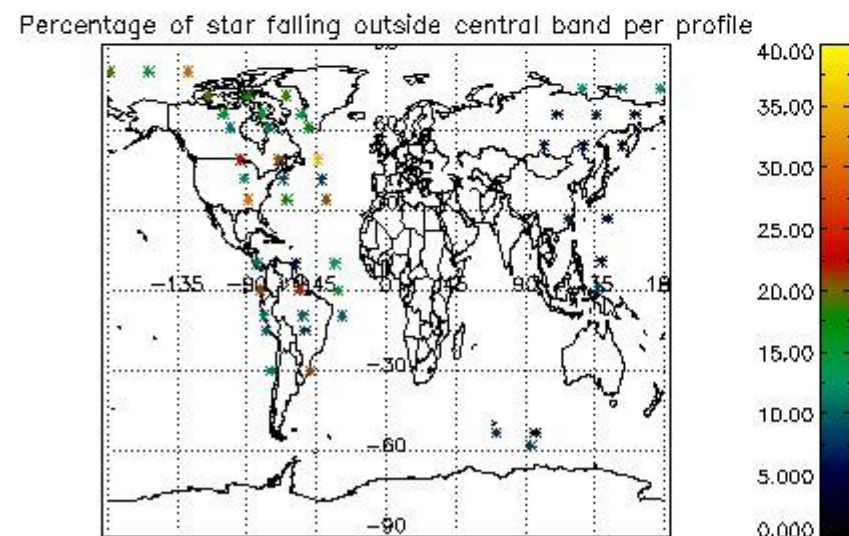
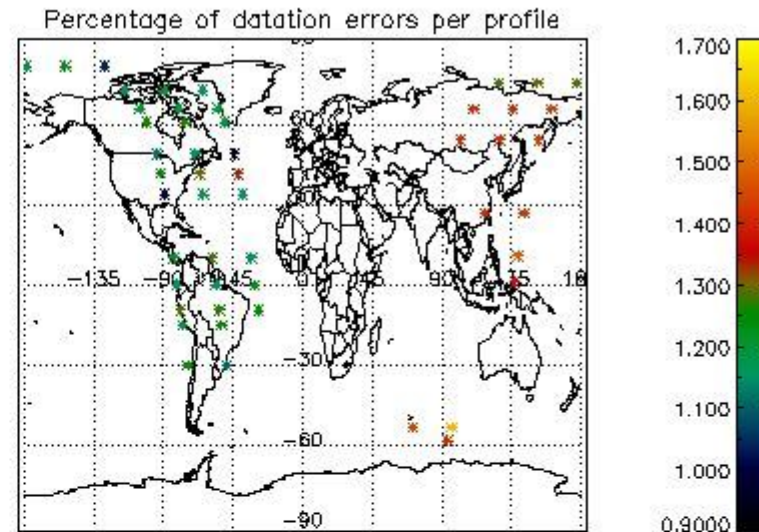
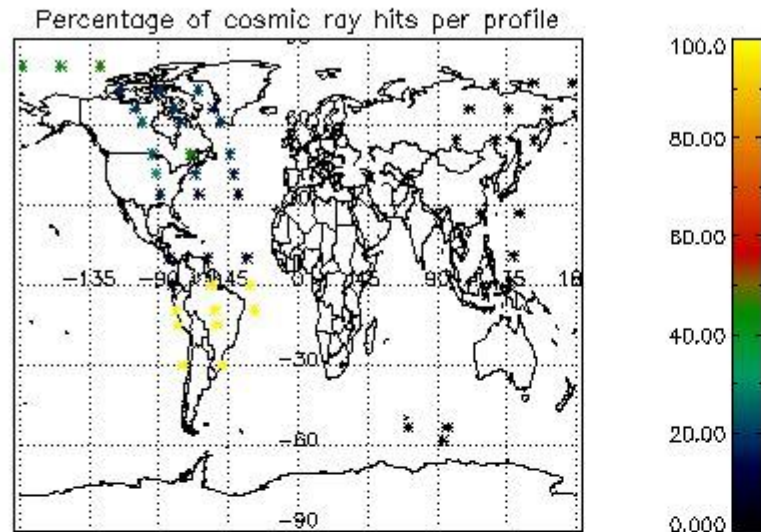
At least one measurement with demodulation flag set:	22.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





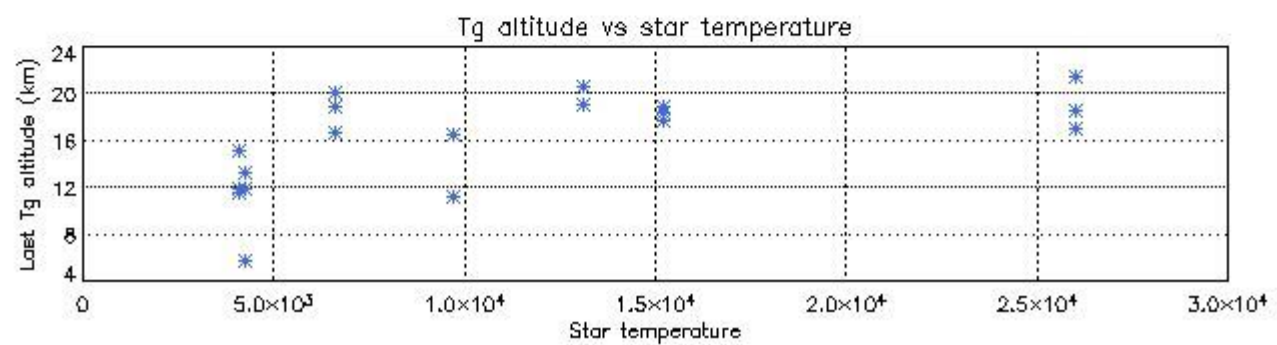
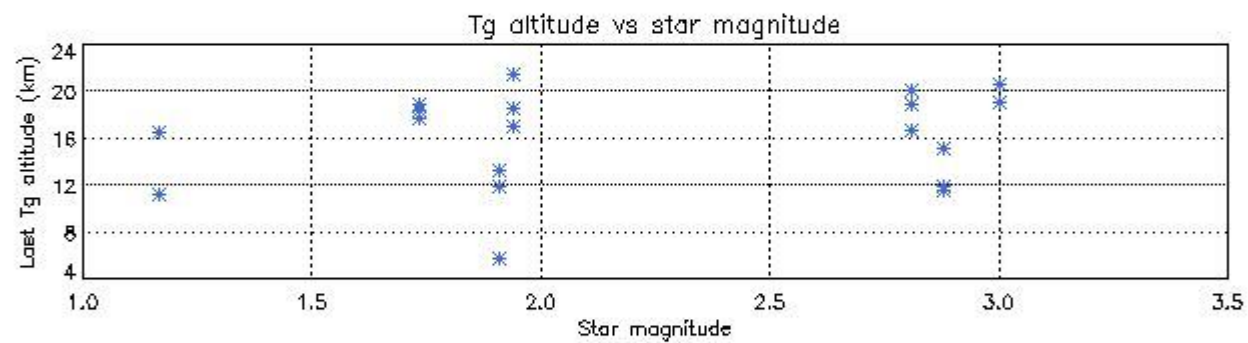
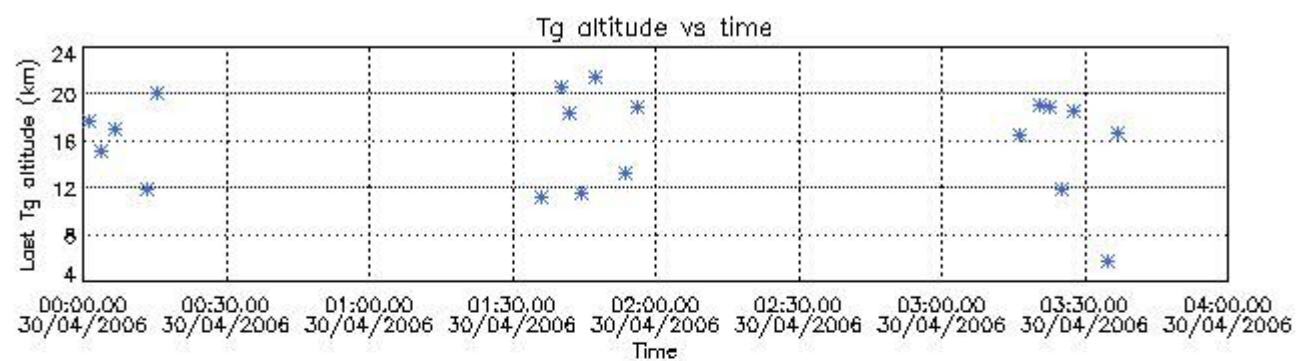
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.011	17.925	8.4628
St. deviation:	4.0925	4.7942	4.1686
Maximum:	21.468	31.505	11.644
Minimum:	5.7705	7.5429	3.7438
Number of data:	19.000	28.000	3.0000

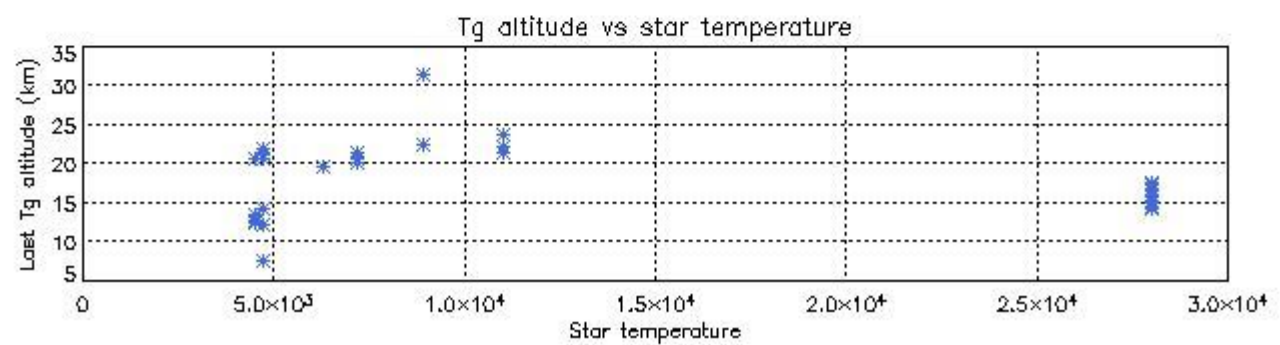
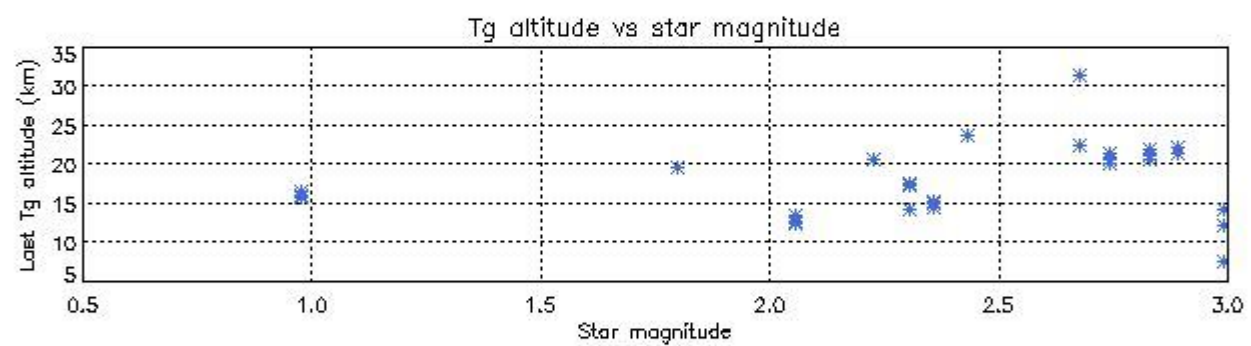
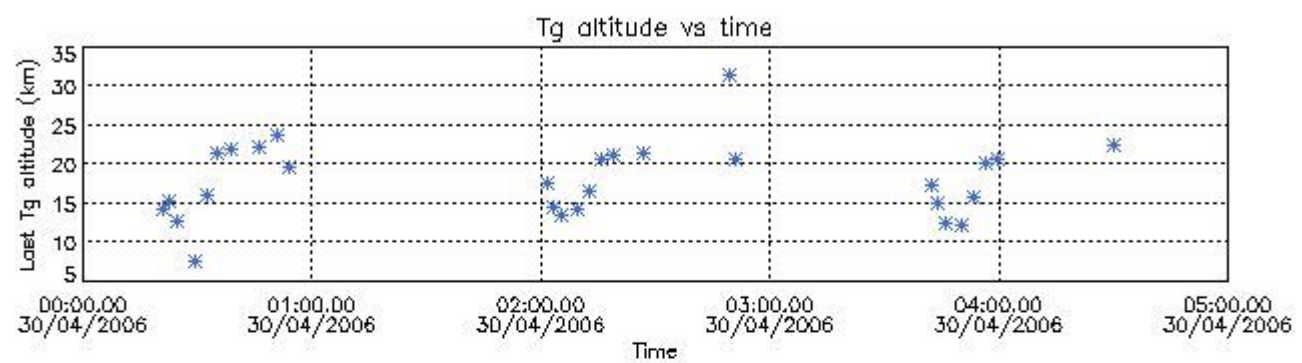
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

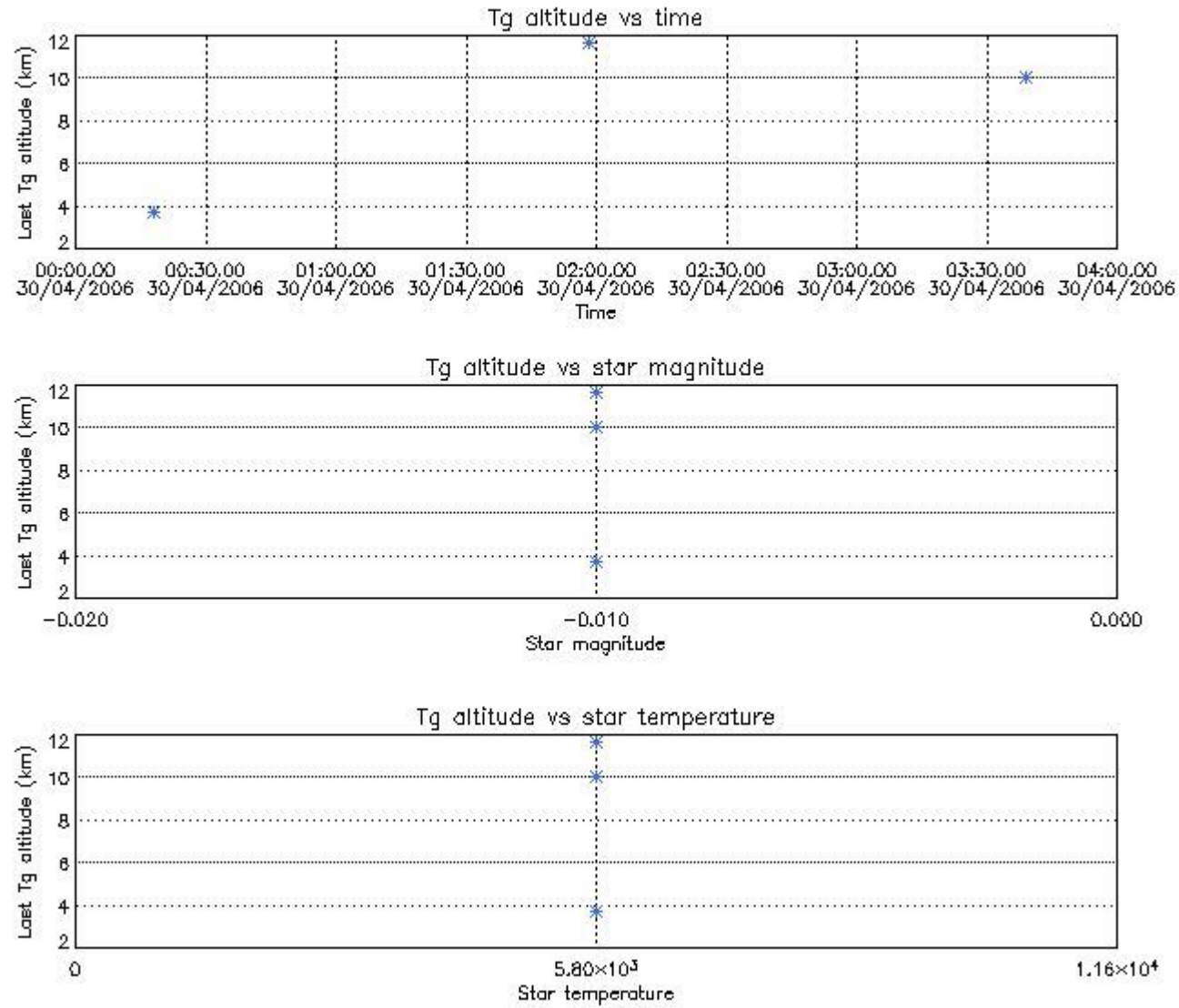
Tangent altitude at which the star is lost



### 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

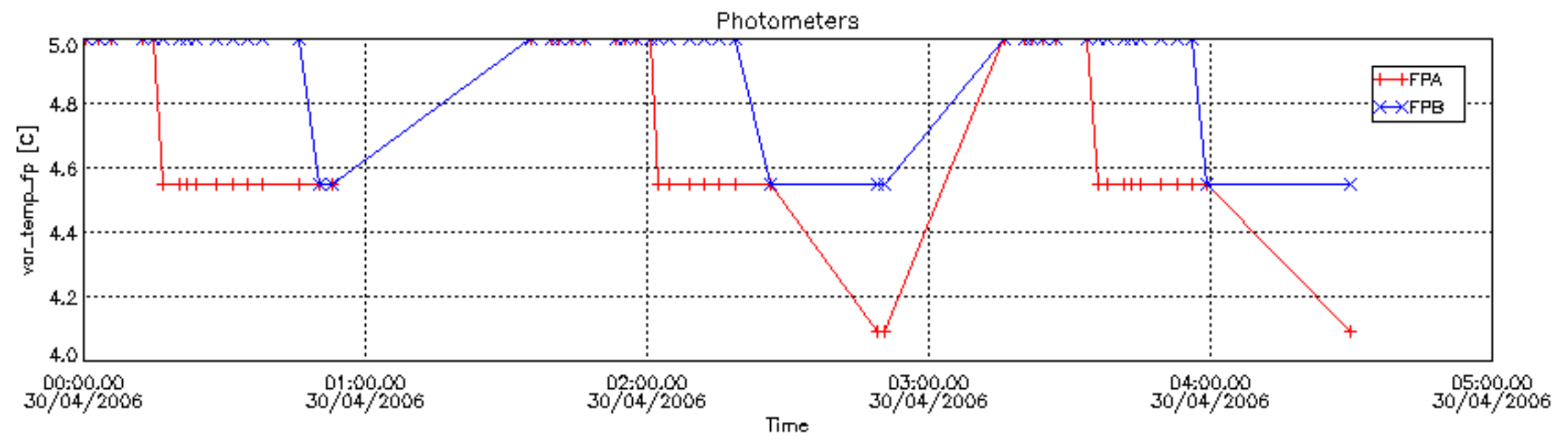
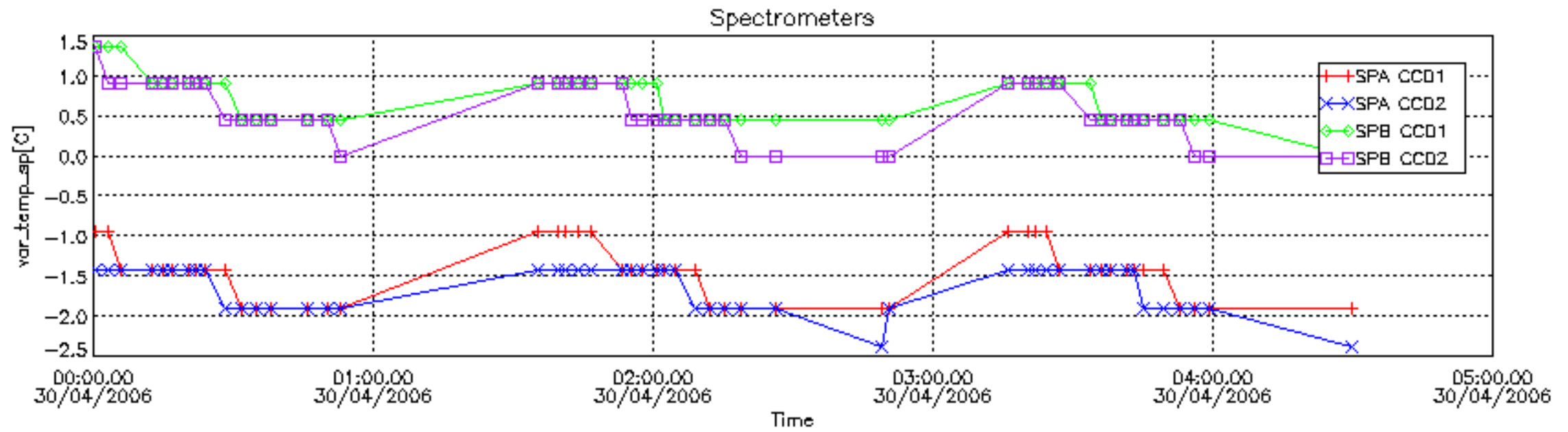
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.0	1447.2	1460.9	1447.1
St. deviation:	5.9410	18.792	7.7334	16.712
Maximum:	1539.0	1555.0	1510.0	1543.0
Minimum:	1435.0	1403.0	1421.0	1406.0
Number of data:	17300.	17300.	23250.	23250.

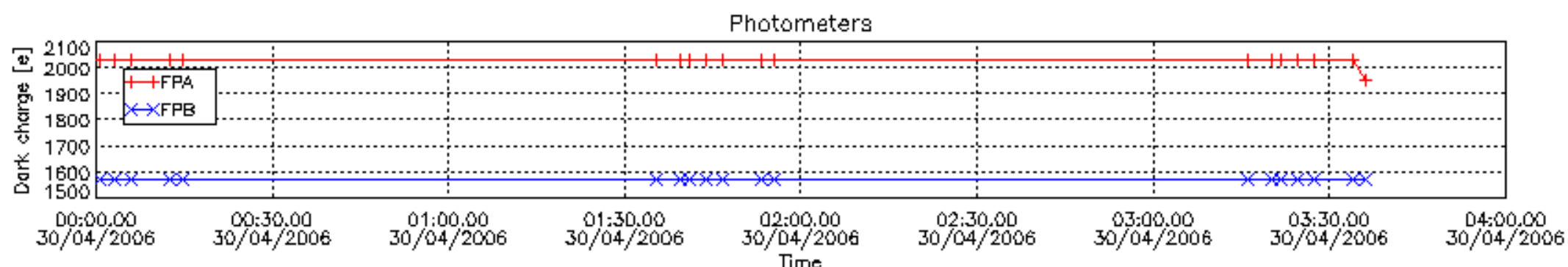
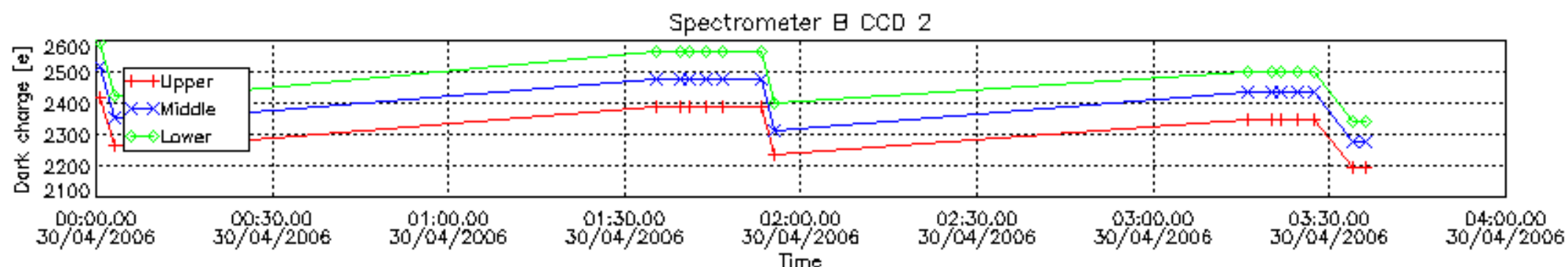
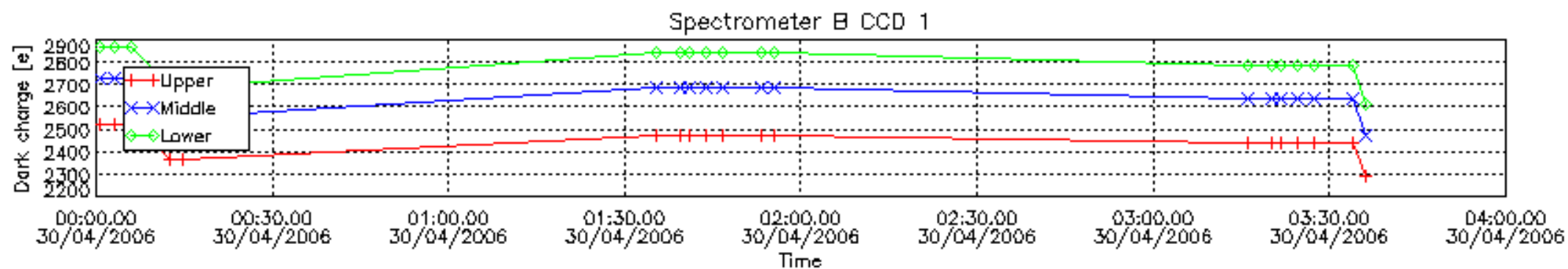
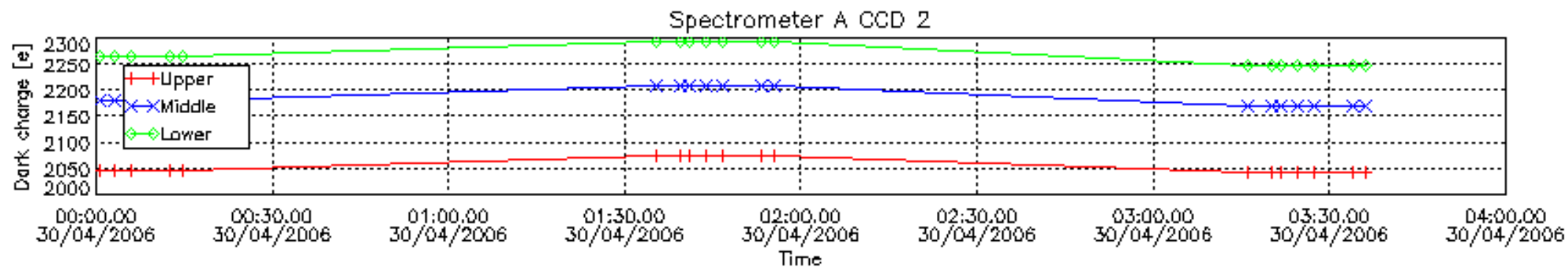
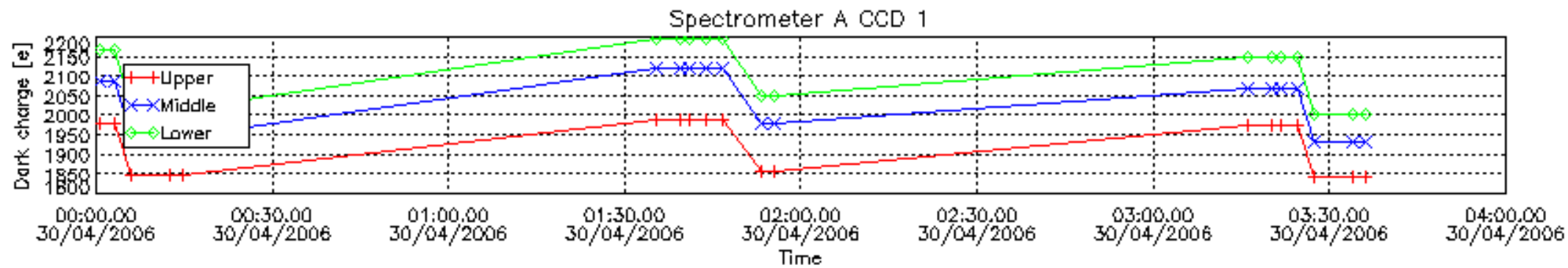
## 8. Auxiliary Data Files used for the production reported in section 2.2

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	30-APR-2006 00:00:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060421_071427_20060419_000000_20100101_000000	1	30-APR-2006 00:00:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	30-APR-2006 00:00:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-APR-2006 00:00:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	30-APR-2006 00:00:33
ECMWF_FILE	AUX_ECF_AXNECM20060429_062345_20060429_210000_20060430_090000	1	30-APR-2006 00:00:33
ECMWF_FILE	AUX_ECA_AXNECM20060430_060416_20060429_210000_20060430_090000	50	30-APR-2006 04:29:37
OPTIONAL_ECMWF_FILE	NOT USED	1	30-APR-2006 00:00:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060429_234503_000057382047_00173_21770_0392.N1	1	30-APR-2006 00:00:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060430_012600_000041442047_00174_21771_0393.N1	33	30-APR-2006 02:49:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060430_042120_000057382047_00176_21773_0395.N1	50	30-APR-2006 04:29:37

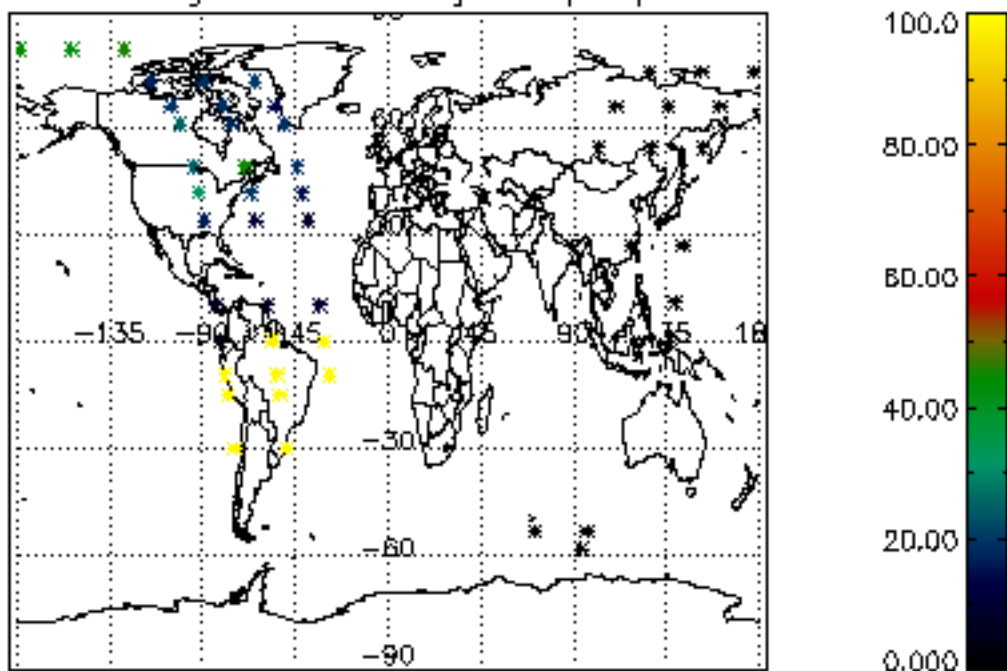




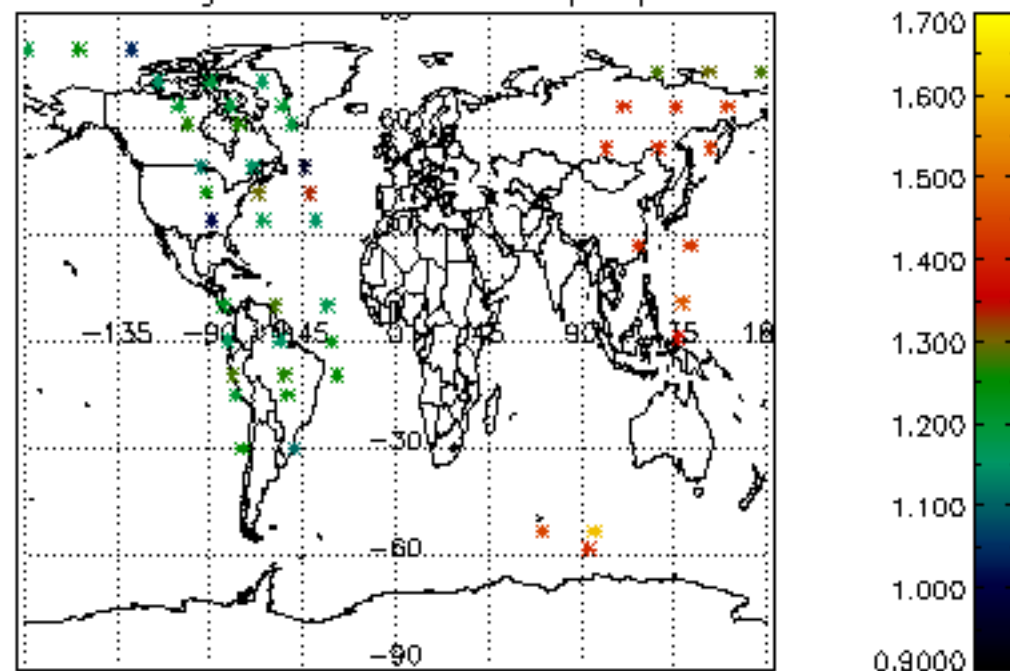




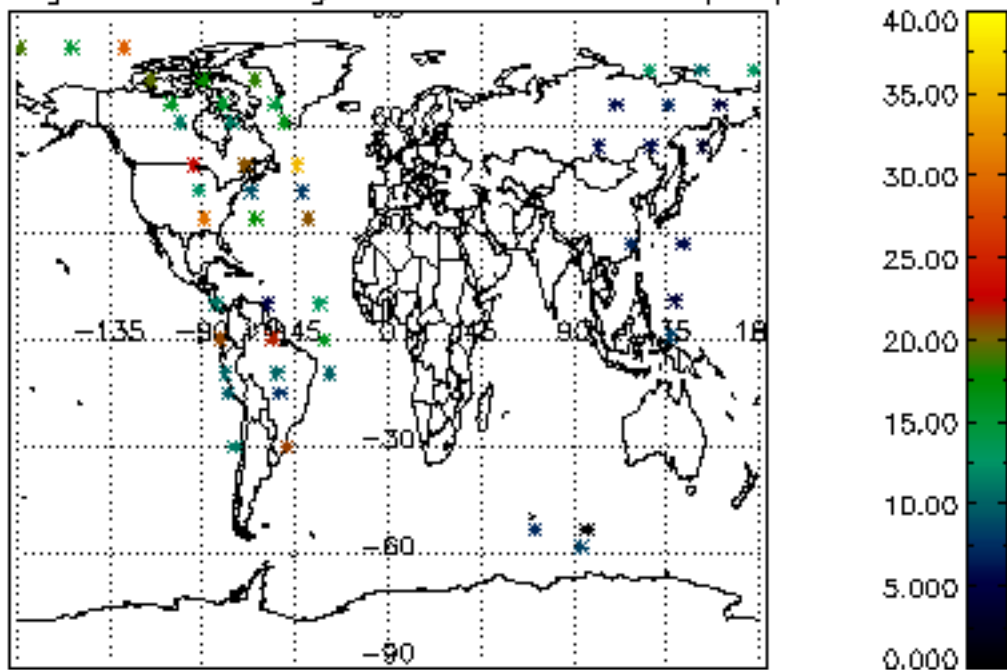
Percentage of cosmic ray hits per profile



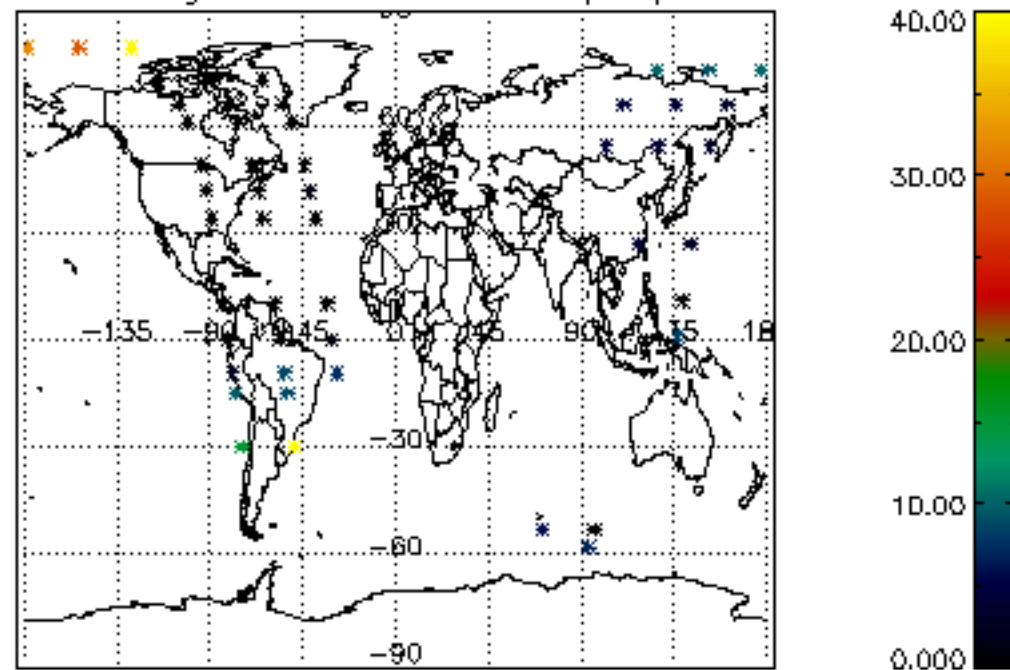
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

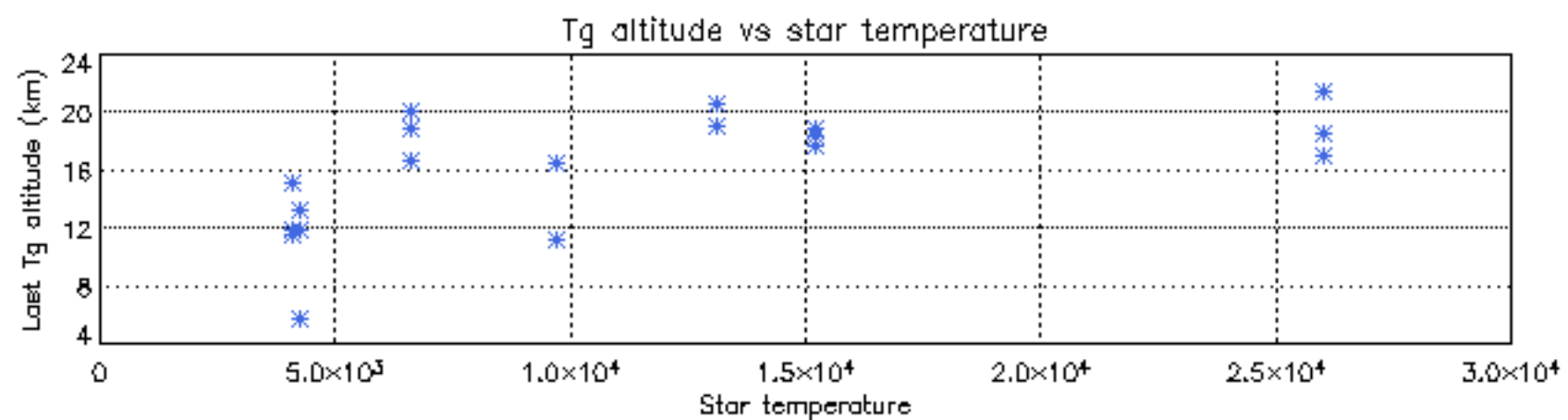
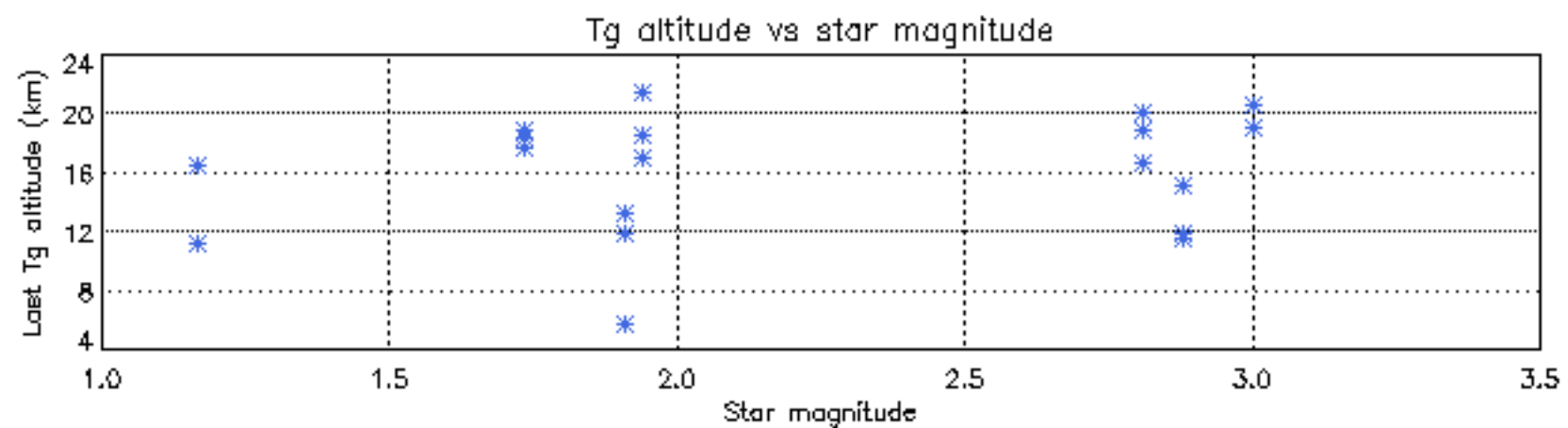
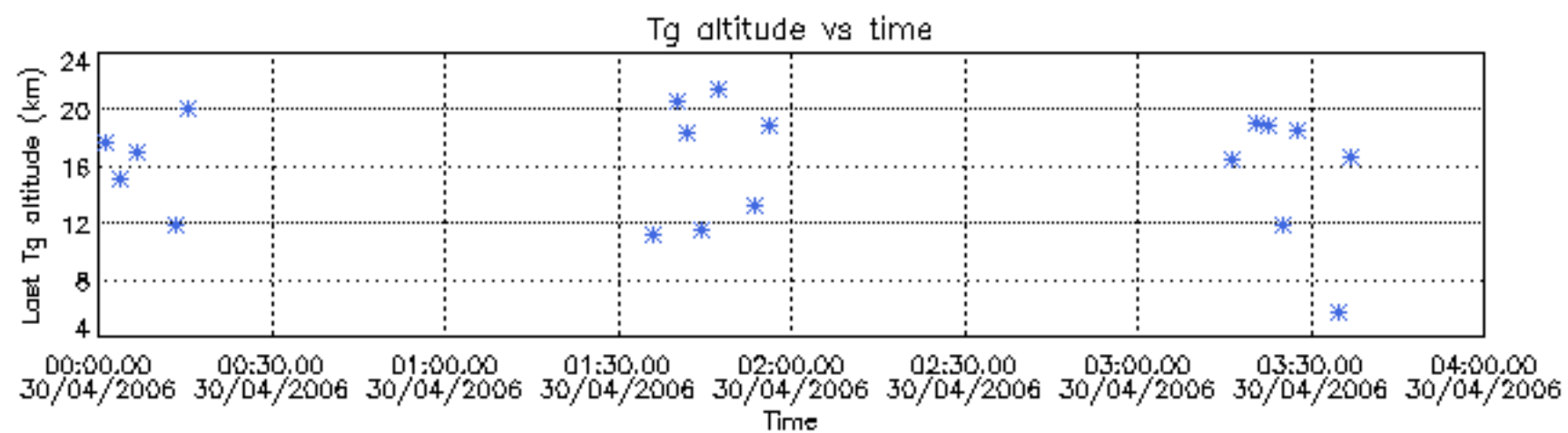


Percentage of saturation errors per profile

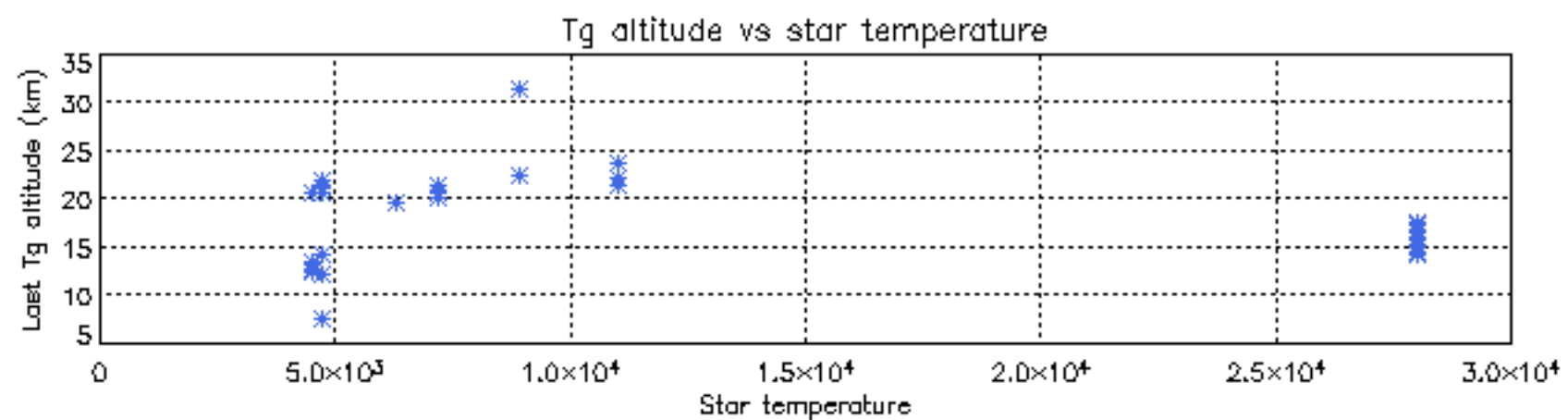
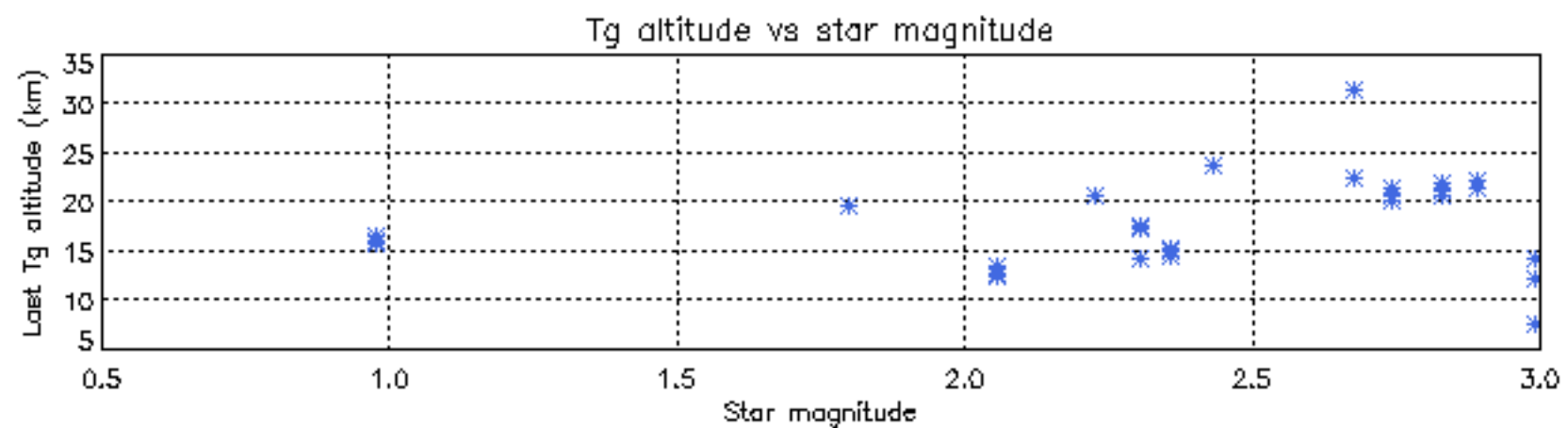
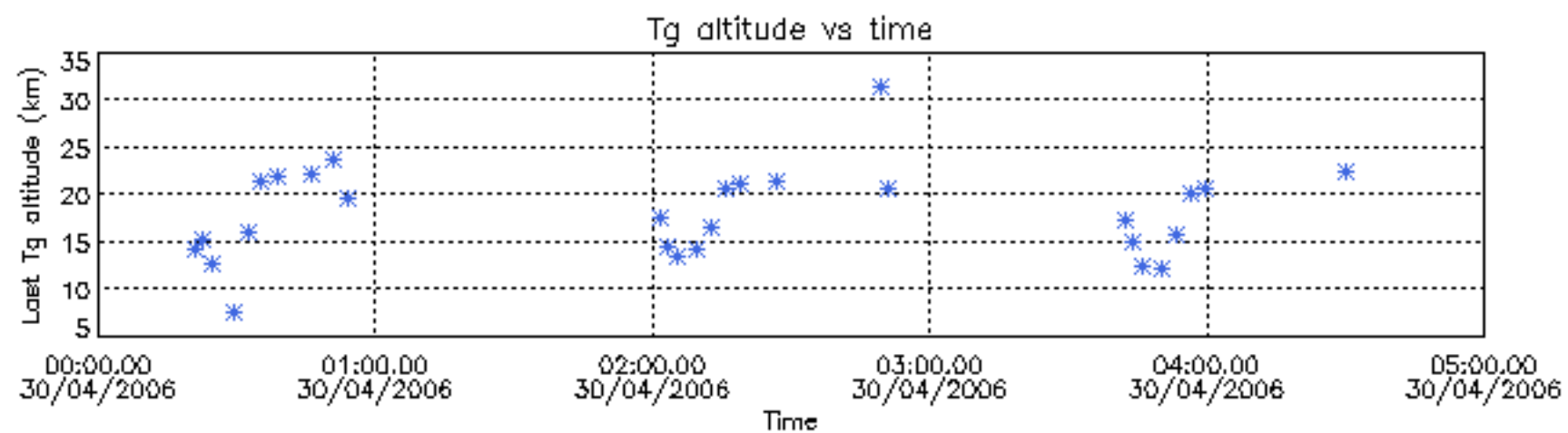




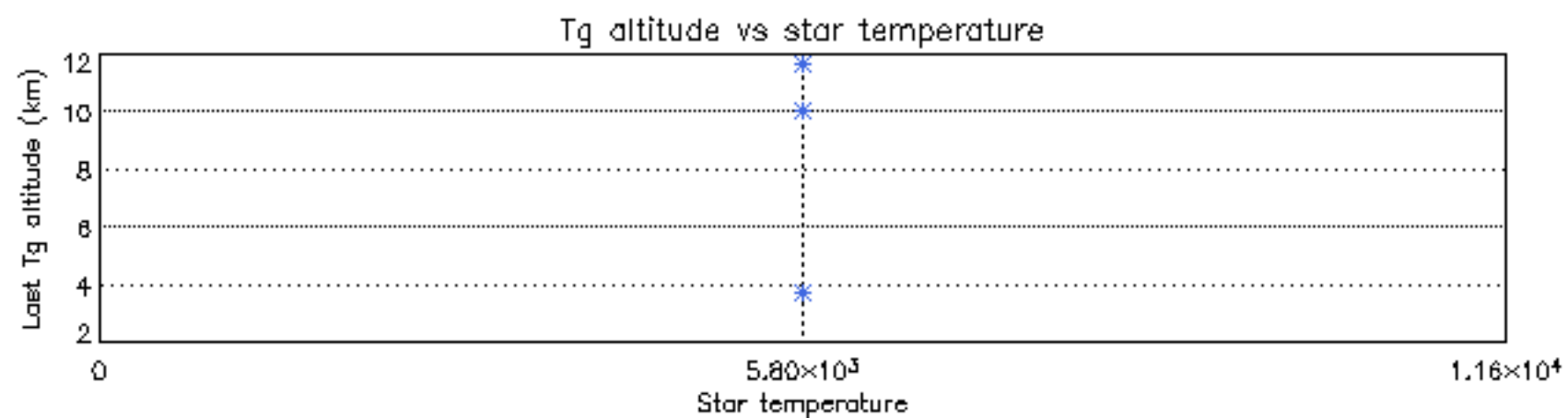
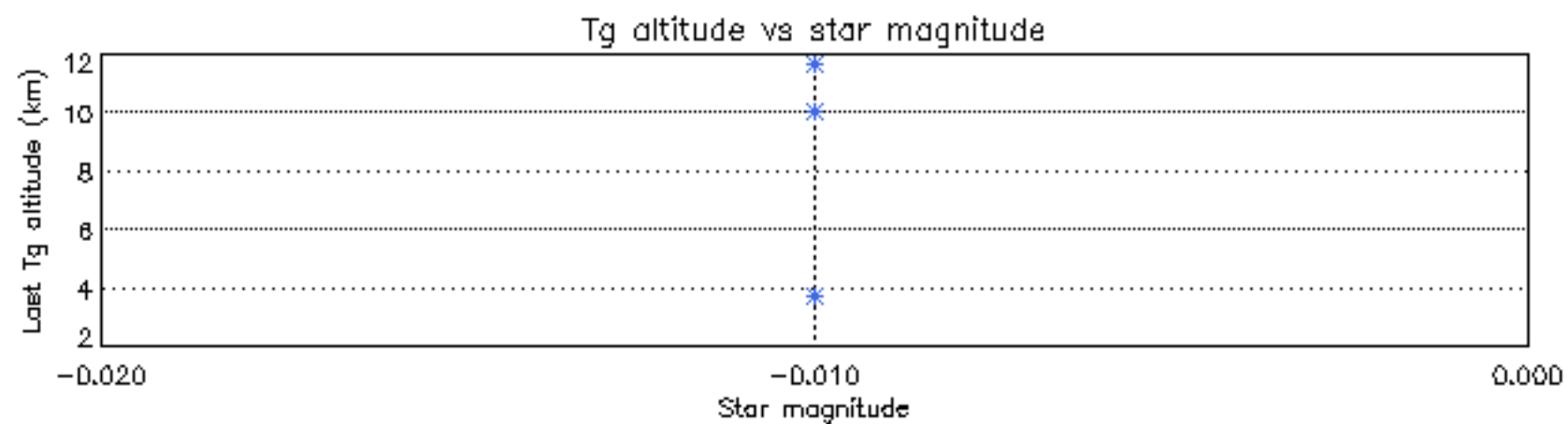
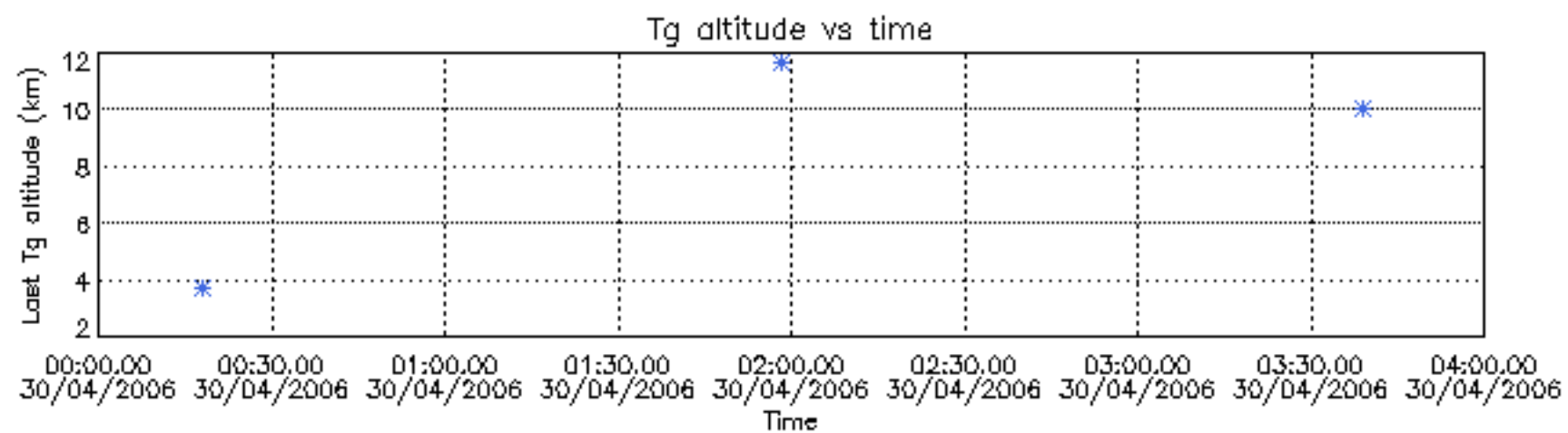
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 5; 837.9; 01-APR-2006 00:28:31; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;21356  
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 13; 2666.3; 01-APR-2006 00:58:59; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;21356  
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 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  
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 4; 6551.4; 01-APR-2006 02:03:44; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;21356  
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 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  
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 8; 516.0; 01-APR-2006 03:44:20; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21358  
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 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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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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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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22;	937.6;	13-APR-2006	12:37:25;	Dark	;	42.5;	78;	Alp Lup	;	2.30;	28000;occ;	85;	0;	21535
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 6; 544.4; 25-APR-2006 01:09:43; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;21700



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