

# GOMOS Daily Report 11-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	13APR2006 04:32:03

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (11APR2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (12APR2006 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)

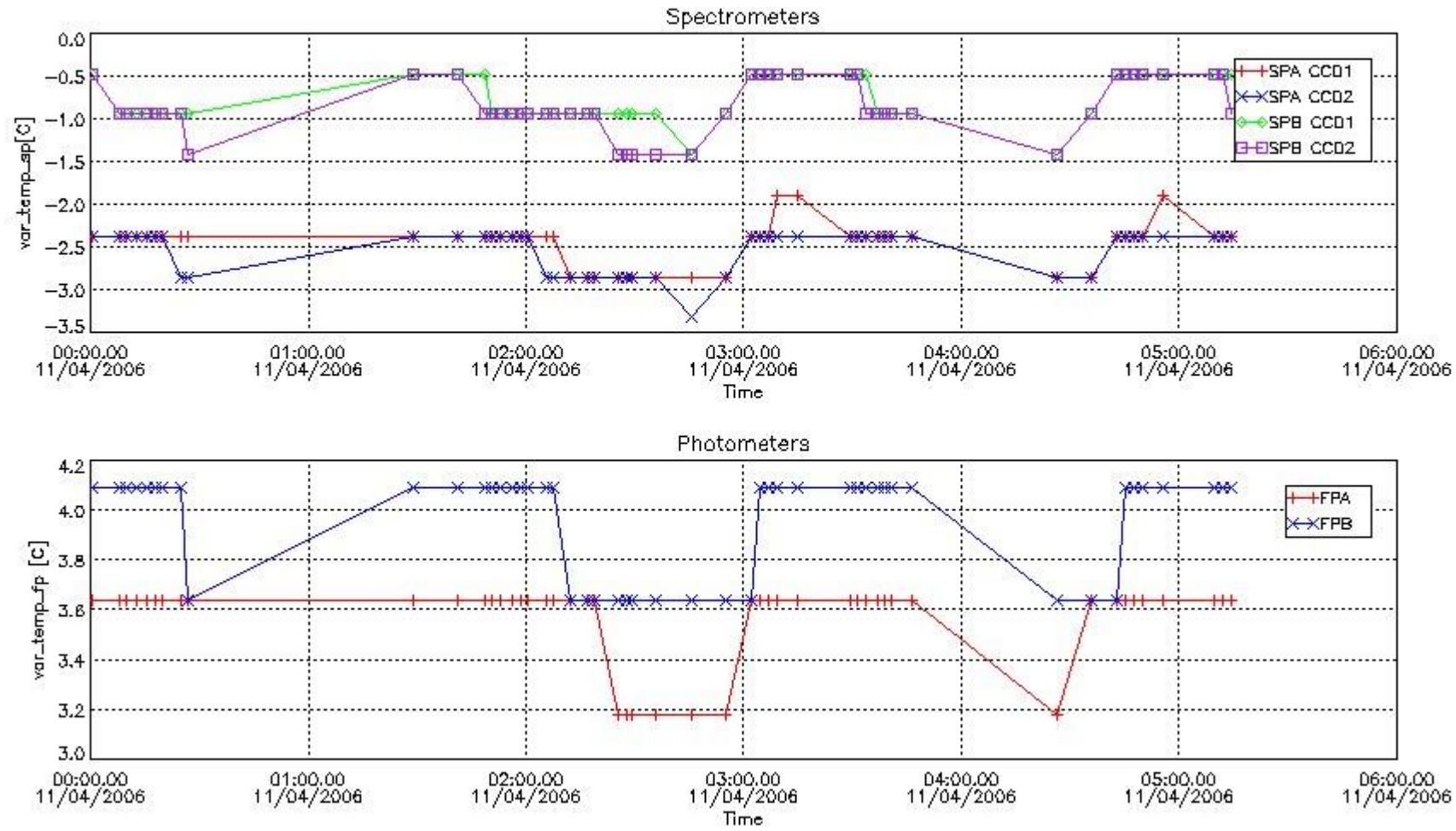
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060411_000030_000000422046_00403_21499_0001.N1	11-APR-2006 00:00:30	Dark	42.000	45	Alp Pav	1.9400	26000.	84	21499	No
2	GOM_TRA_1PNPDE20060411_000758_000000402046_00403_21499_0002.N1	11-APR-2006 00:07:58	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	21499	No
3	GOM_TRA_1PNPDE20060411_001000_000000382046_00403_21499_0003.N1	11-APR-2006 00:10:00	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	21499	No
4	GOM_TRA_1PNPDE20060411_001229_000000432046_00403_21499_0004.N1	11-APR-2006 00:12:29	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	21499	No
5	GOM_TRA_1PNPDE20060411_001533_000000442046_00403_21499_0005.N1	11-APR-2006 00:15:33	Twilight	44.000	78	Alp Lup	2.3040	28000.	88	21499	No
6	GOM_TRA_1PNPDE20060411_001747_000000412046_00403_21499_0006.N1	11-APR-2006 00:17:47	Twilight	40.500	64	Gam Cen	2.2000	10600.	81	21499	No
7	GOM_TRA_1PNPDE20060411_001938_000000462046_00403_21499_0007.N1	11-APR-2006 00:19:38	Bright	45.500	54	5The Cen	2.0550	4500.0	91	21499	No
8	GOM_TRA_1PNPDE20060411_002500_000000432046_00403_21499_0008.N1	11-APR-2006 00:25:00	Bright	42.500	106	9Bet Crv	2.6480	5600.0	85	21499	No
9	GOM_TRA_1PNPDE20060411_002652_000000412046_00403_21499_0009.N1	11-APR-2006 00:26:52	Bright	40.500	100	4Gam Crv	2.5800	13100.	81	21499	No
10	GOM_TRA_1PNPDE20060411_012846_000000382046_00403_21499_0000.N1	11-APR-2006 01:28:46	Dark	38.000	142	49Del Cap	2.8500	8900.0	76	21499	No
11	GOM_TRA_1PNPDE20060411_014106_000000392046_00404_21500_0001.N1	11-APR-2006 01:41:06	Dark	38.500	45	Alp Pav	1.9400	26000.	77	21500	No
12	GOM_TRA_1PNPDE20060411_014834_000000422046_00404_21500_0002.N1	11-APR-2006 01:48:34	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	21500	No
13	GOM_TRA_1PNPDE20060411_015036_000000392046_00404_21500_0003.N1	11-APR-2006 01:50:36	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	21500	No
14	GOM_TRA_1PNPDE20060411_015305_000000522046_00404_21500_0004.N1	11-APR-2006 01:53:05	Dark	51.500	4	Alp1Cen	-0.010000	5800.0	103	21500	No
15	GOM_TRA_1PNPDE20060411_015609_000000422046_00404_21500_0005.N1	11-APR-2006 01:56:09	Twilight	42.000	78	Alp Lup	2.3040	28000.	84	21500	No
16	GOM_TRA_1PNPDE20060411_015824_000000412046_00404_21500_0006.N1	11-APR-2006 01:58:24	Twilight	40.500	64	Gam Cen	2.2000	10600.	81	21500	No
17	GOM_TRA_1PNPDE20060411_020014_000000492046_00404_21500_0007.N1	11-APR-2006 02:00:14	Bright	48.500	54	5The Cen	2.0550	4500.0	97	21500	No
18	GOM_TRA_1PNPDE20060411_020536_000000442046_00404_21500_0008.N1	11-APR-2006 02:05:36	Bright	43.500	106	9Bet Crv	2.6480	5600.0	87	21500	No
19	GOM_TRA_1PNPDE20060411_020728_000000402046_00404_21500_0009.N1	11-APR-2006 02:07:28	Bright	40.000	100	4Gam Crv	2.5800	13100.	80	21500	No
20	GOM_TRA_1PNPDE20060411_021204_000000402046_00404_21500_0010.N1	11-APR-2006 02:12:04	Bright	39.500	121	29Gam Vir	2.7400	7200.0	79	21500	No
21	GOM_TRA_1PNPDE20060411_021645_000000362046_00404_21500_0011.N1	11-APR-2006 02:16:45	Bright	35.500	62	94Bet Leo	2.1360	9700.0	71	21500	No
22	GOM_TRA_1PNPDE20060411_021835_000000362046_00404_21500_0012.N1	11-APR-2006 02:18:35	Bright	35.500	96	68Del Leo	2.5600	9300.0	71	21500	No
23	GOM_TRA_1PNPDE20060411_022516_000000332046_00404_21500_0013.N1	11-APR-2006 02:25:16	Bright	33.000	174	52Psi UMa	3.0040	4400.0	66	21500	No
24	GOM_TRA_1PNPDE20060411_022754_000000462046_00404_21500_0014.N1	11-APR-2006 02:27:54	Bright	45.500	87	64Gam UMa	2.4330	11000.	91	21500	No
25	GOM_TRA_1PNPDE20060411_022916_000000392046_00404_21500_0015.N1	11-APR-2006 02:29:16	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	21500	No
26	GOM_TRA_1PNPDE20060411_023542_000000402046_00404_21500_0016.N1	11-APR-2006 02:35:42	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	21500	No
27	GOM_TRA_1PNPDE20060411_024538_000000522046_00404_21500_0000.N1	11-APR-2006 02:45:38	Bright	51.500	89	5Alp Cep	2.4510	8000.0	103	21500	No
28	GOM_TRA_1PNPDE20060411_025513_000000362046_00404_21500_0001.N1	11-APR-2006 02:55:13	Twilight	36.000	164	44Eta Peg	2.9480	5400.0	72	21500	No
29	GOM_TRA_1PNPDE20060411_030202_000000482046_00404_21500_0002.N1	11-APR-2006 03:02:02	Twilight	48.000	61	8Eps Peg	2.1000	3900.0	96	21500	No
30	GOM_TRA_1PNPDE20060411_030430_000000442046_00404_21500_0003.N1	11-APR-2006 03:04:30	Twilight	43.500	162	34Alp Aqr	2.9440	5350.0	87	21500	No
31	GOM_TRA_1PNPDE20060411_030655_000000452046_00404_21500_0004.N1	11-APR-2006 03:06:55	Dark	45.000	154	22Bet Aqr	2.8990	5700.0	90	21500	No
32	GOM_TRA_1PNPDE20060411_030922_000000412046_00404_21500_0005.N1	11-APR-2006 03:09:22	Dark	41.000	142	49Del Cap	2.8500	8900.0	82	21500	No
33	GOM_TRA_1PNPDE20060411_031447_000000392046_00404_21500_0006.N1	11-APR-2006 03:14:47	Dark	38.500	172	Gam Gru	3.0030	13100.	77	21500	No
34	GOM_TRA_1PNPDE20060411_032911_000000422046_00405_21501_0007.N1	11-APR-2006 03:29:11	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	21501	No
35	GOM_TRA_1PNPDE20060411_033112_000000402046_00405_21501_0008.N1	11-APR-2006 03:31:12	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	21501	No
36	GOM_TRA_1PNPDE20060411_033342_000000462046_00405_21501_0009.N1	11-APR-2006 03:33:42	Dark	46.000	4	Alp1Cen	-0.010000	5800.0	92	21501	No
37	GOM_TRA_1PNPDE20060411_033646_000000412046_00405_21501_0010.N1	11-APR-2006 03:36:46	Twilight	40.500	78	Alp Lup	2.3040	28000.	81	21501	No
38	GOM_TRA_1PNPDE20060411_033900_000000382046_00405_21501_0011.N1	11-APR-2006 03:39:00	Twilight	38.000	64	Gam Cen	2.2000	10600.	76	21501	No
39	GOM_TRA_1PNPDE20060411_034051_000000502046_00405_21501_0012.N1	11-APR-2006 03:40:51	Bright	49.500	54	5The Cen	2.0550	4500.0	99	21501	No
40	GOM_TRA_1PNPDE20060411_034612_000000422046_00405_21501_0013.N1	11-APR-2006 03:46:12	Bright	42.000	106	9Bet Crv	2.6480	5600.0	84	21501	No
41	GOM_TRA_1PNPDE20060411_042614_000000492046_00405_21501_0000.N1	11-APR-2006 04:26:14	Bright	49.000	89	5Alp Cep	2.4510	8000.0	98	21501	No
42	GOM_TRA_1PNPDE20060411_043550_000000352046_00405_21501_0001.N1	11-APR-2006 04:35:50	Twilight	35.000	164	44Eta Peg	2.9480	5400.0	70	21501	No
43	GOM_TRA_1PNPDE20060411_044238_000000482046_00405_21501_0002.N1	11-APR-2006 04:42:38	Twilight	48.000	61	8Eps Peg	2.1000	3900.0	96	21501	No
44	GOM_TRA_1PNPDE20060411_044506_000000442046_00405_21501_0003.N1	11-APR-2006 04:45:06	Twilight	44.000	162	34Alp Aqr	2.9440	5350.0	88	21501	No
45	GOM_TRA_1PNPDE20060411_044732_000000482046_00405_21501_0004.N1	11-APR-2006 04:47:32	Dark	47.500	154	22Bet Aqr	2.8990	5700.0	95	21501	No
46	GOM_TRA_1PNPDE20060411_044959_000000442046_00405_21501_0005.N1	11-APR-2006 04:49:59	Dark	43.500	142	49Del Cap	2.8500	8900.0	87	21501	No

47	GOM_TRA_1PNPDE20060411_045523_000000392046_00405_21501_0006.N1	11-APR-2006 04:55:23	Dark	39.000	172	Gam Gru	3.0030	13100.	78	21501	No
48	GOM_TRA_1PNPDE20060411_050947_000000462046_00406_21502_0007.N1	11-APR-2006 05:09:47	Dark	45.500	43	Alp TrA	1.9100	4250.0	91	21502	No
49	GOM_TRA_1PNPDE20060411_051149_000000422046_00406_21502_0008.N1	11-APR-2006 05:11:49	Dark	42.000	134	Bet TrA	2.8100	6600.0	84	21502	No
50	GOM_TRA_1PNPDE20060411_051418_000000512046_00406_21502_0009.N1	11-APR-2006 05:14:18	Dark	51.000	4	Alp1Cen	-0.010000	5800.0	102	21502	No

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



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

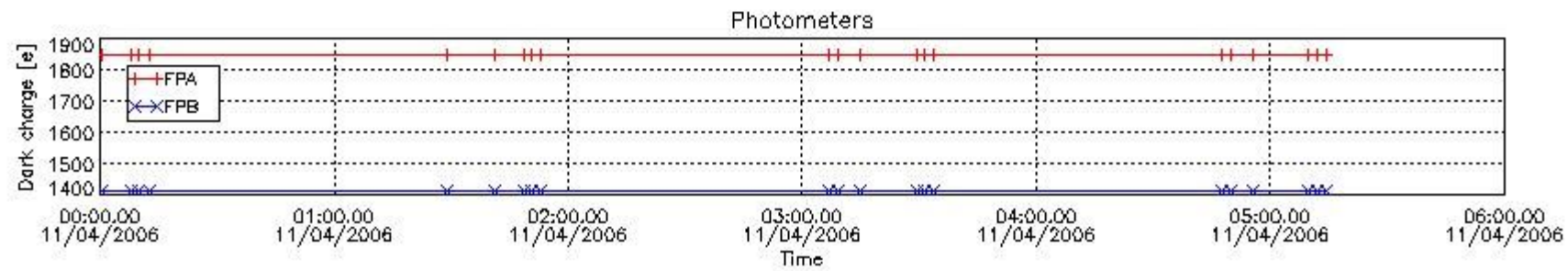
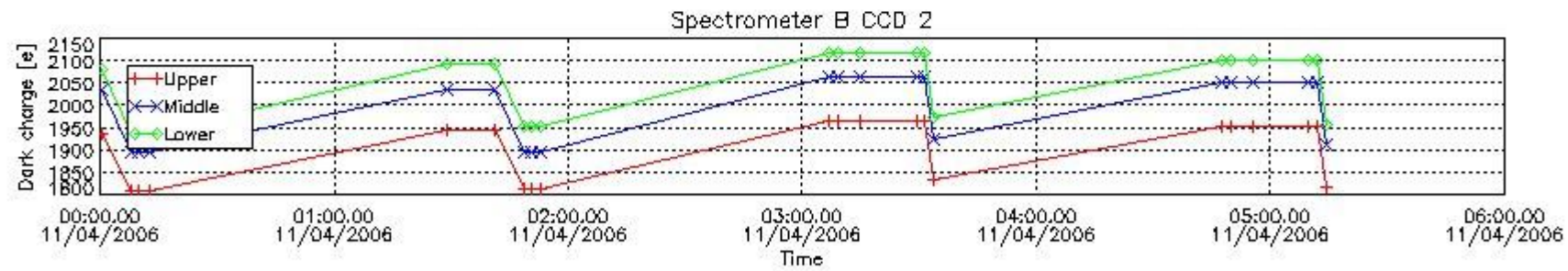
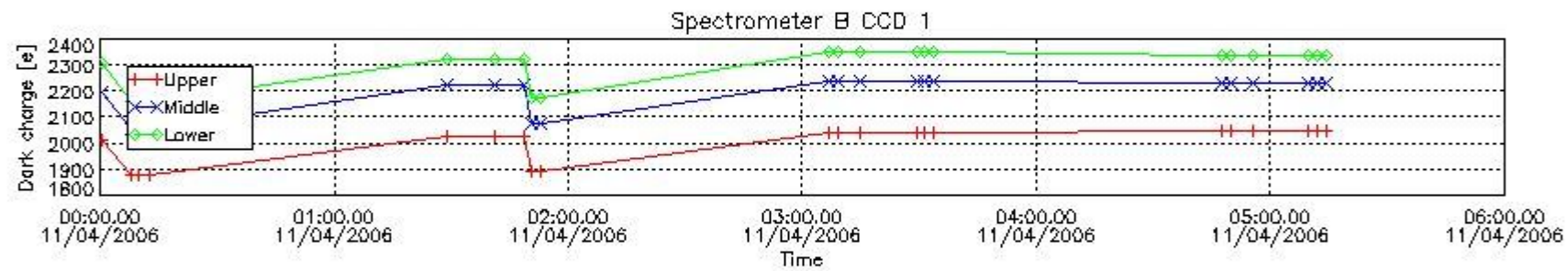
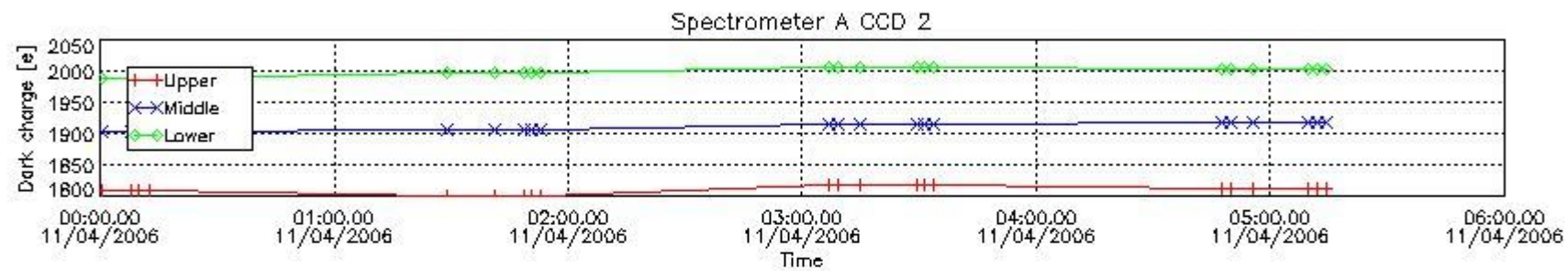
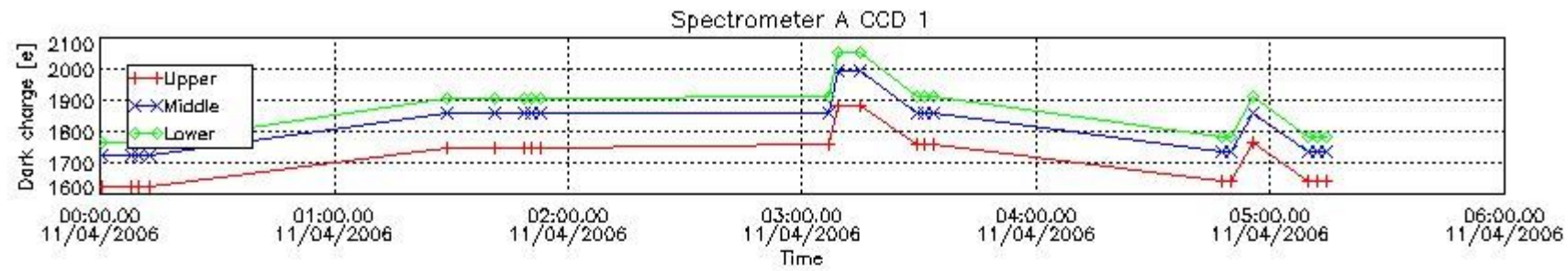
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





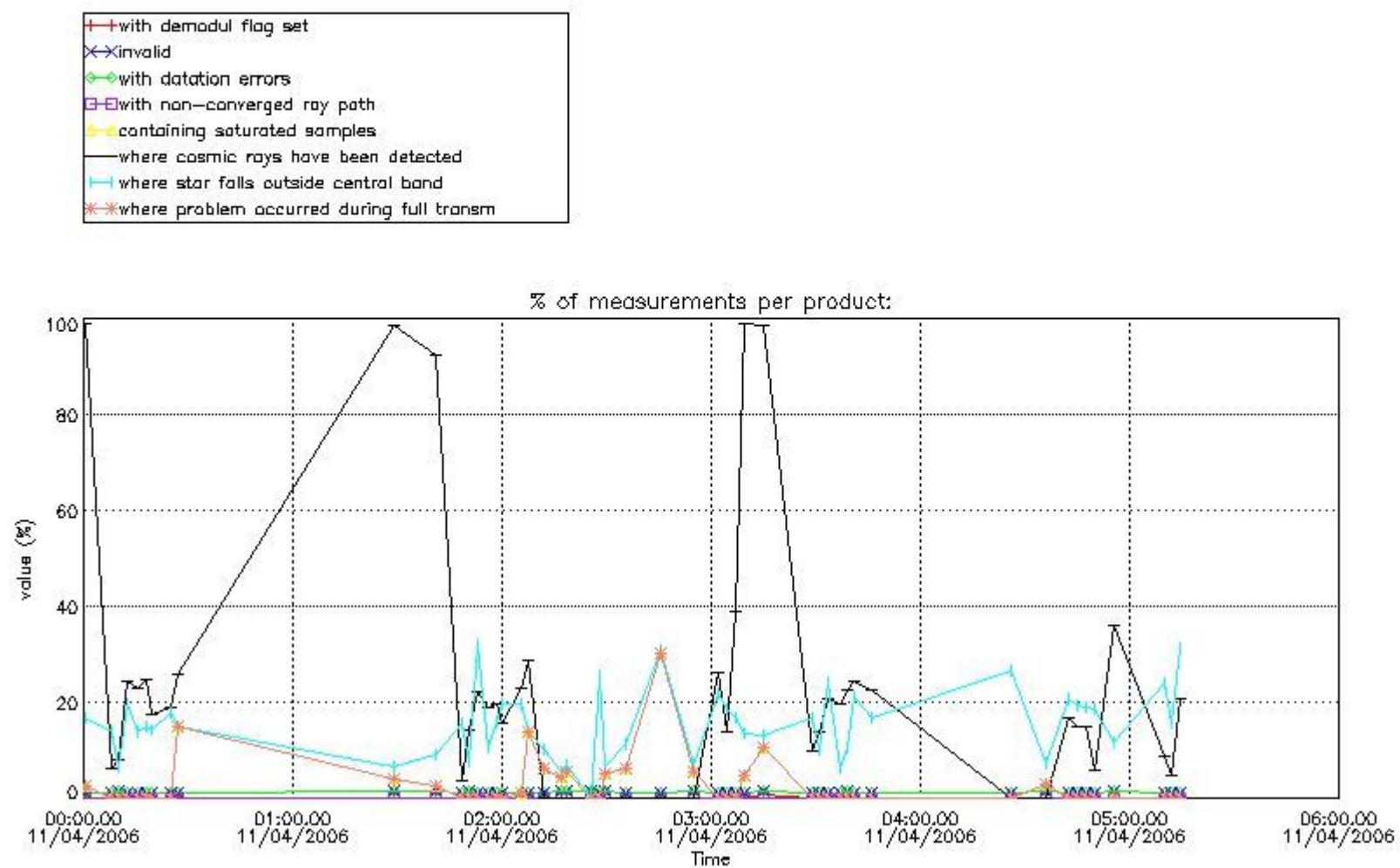
## 5. Demodulation flag and quality information monitoring

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:

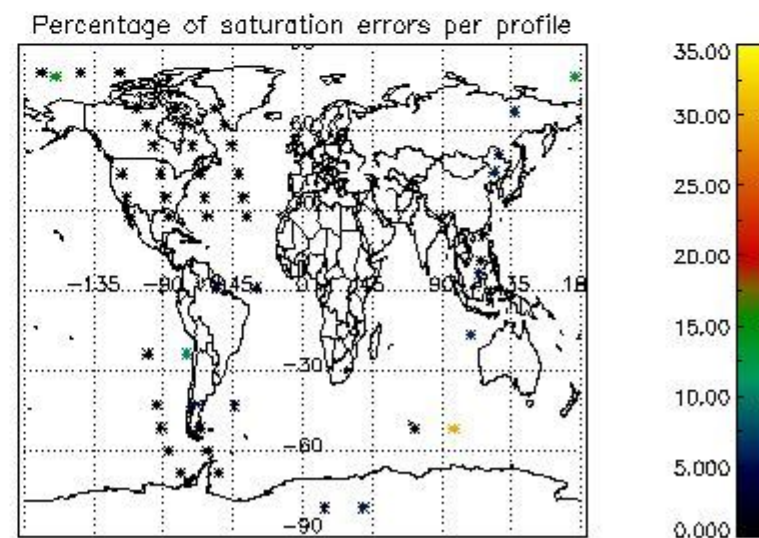
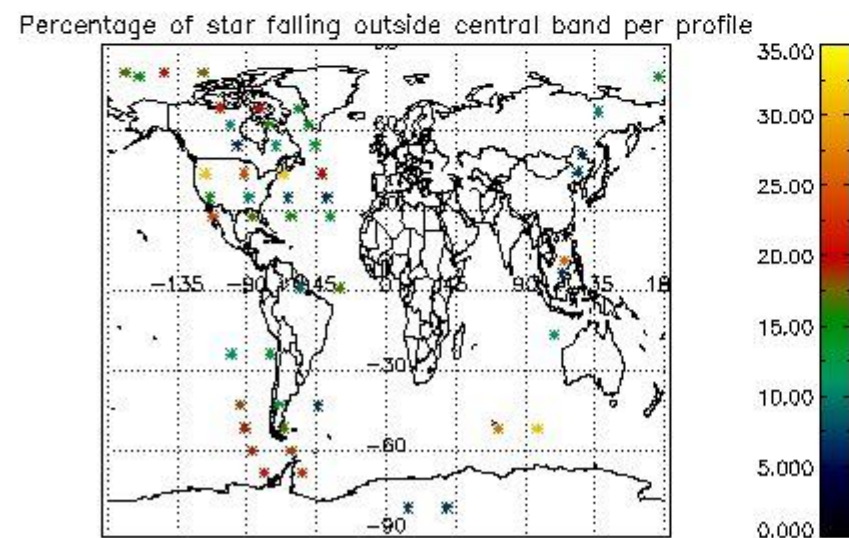
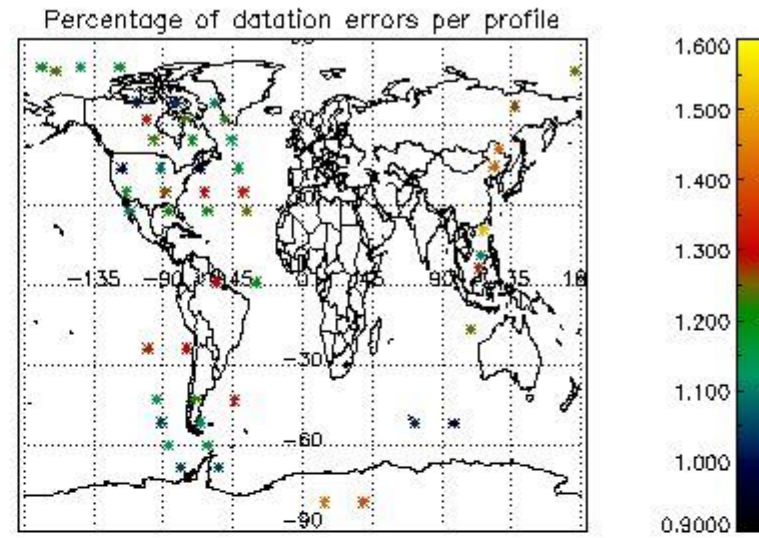
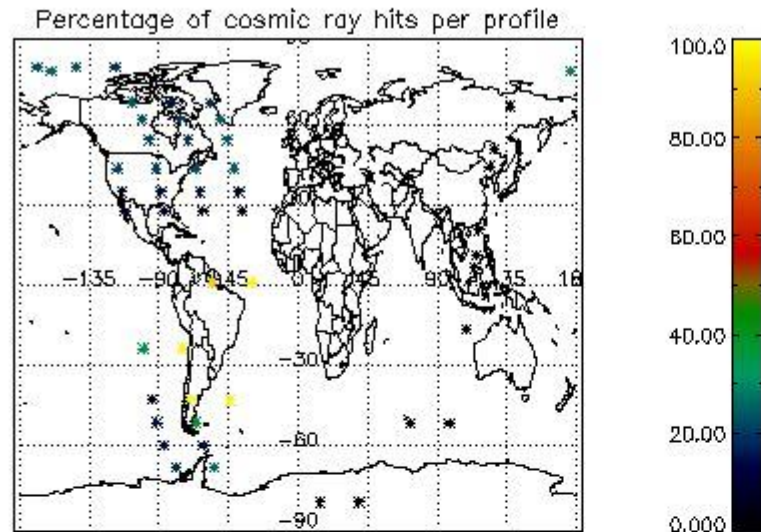
At least one measurement with demodulation flag set:	16.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





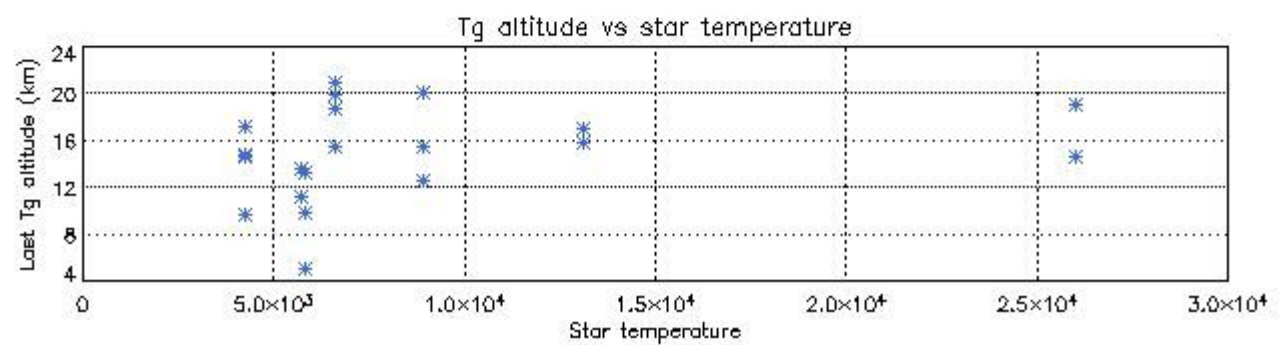
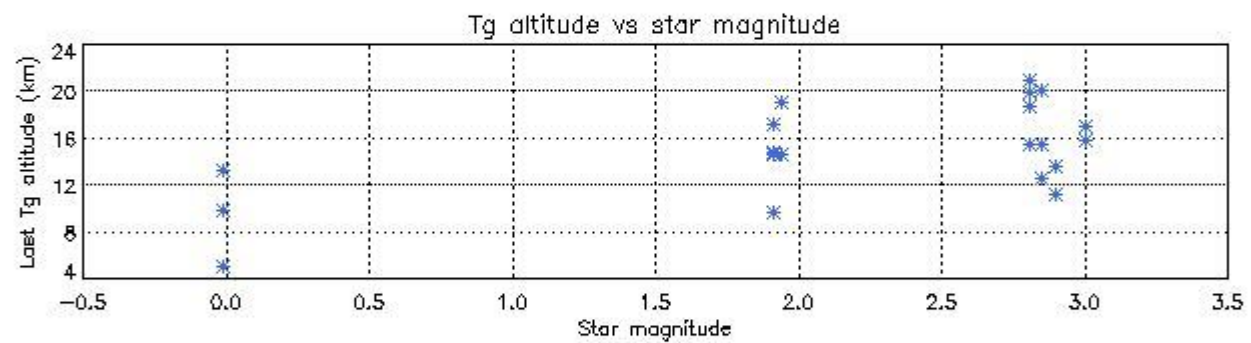
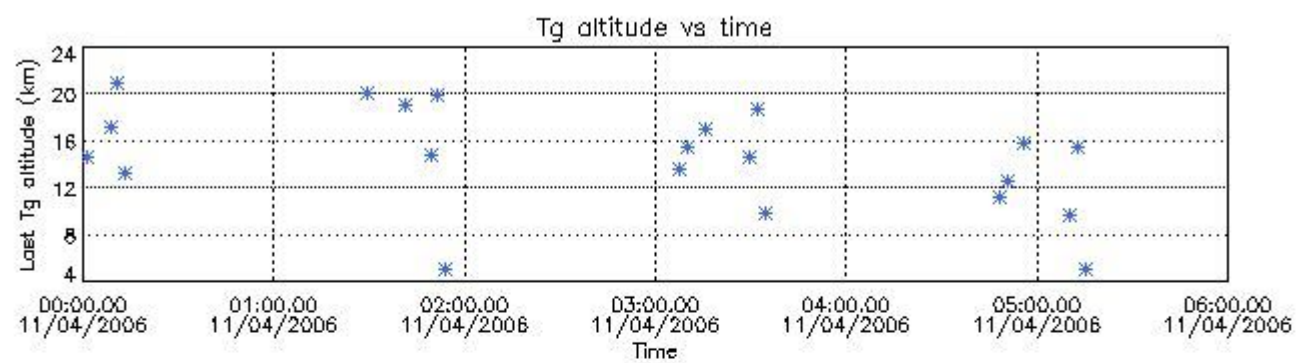
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.458	14.990	15.771
St. deviation:	4.4616	5.1640	4.1893
Maximum:	20.905	25.979	22.792
Minimum:	5.0032	6.4369	10.678
Number of data:	21.000	17.000	12.000

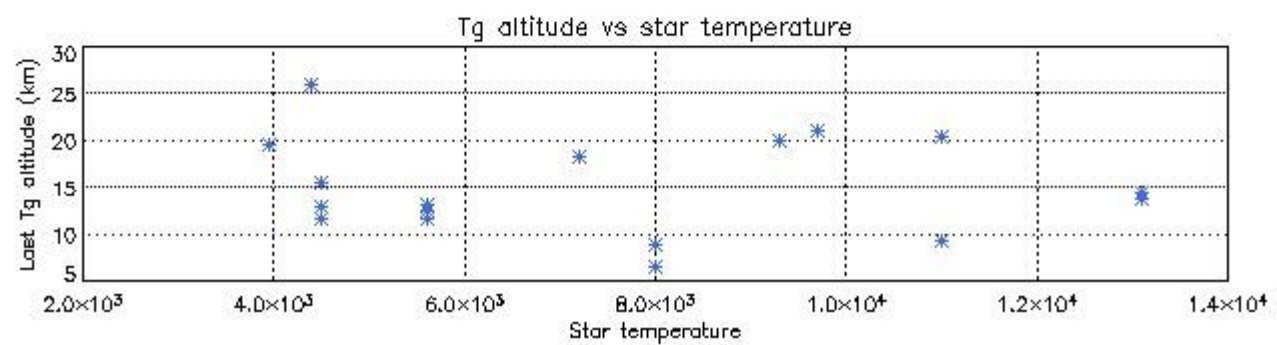
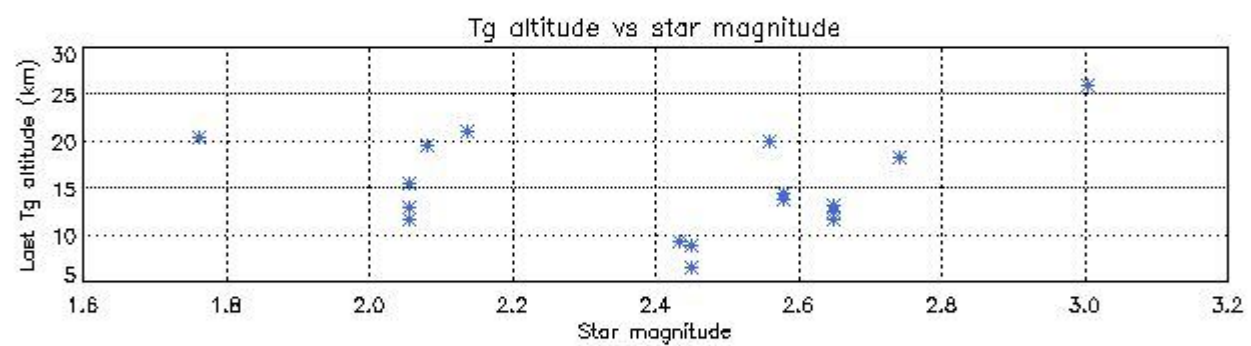
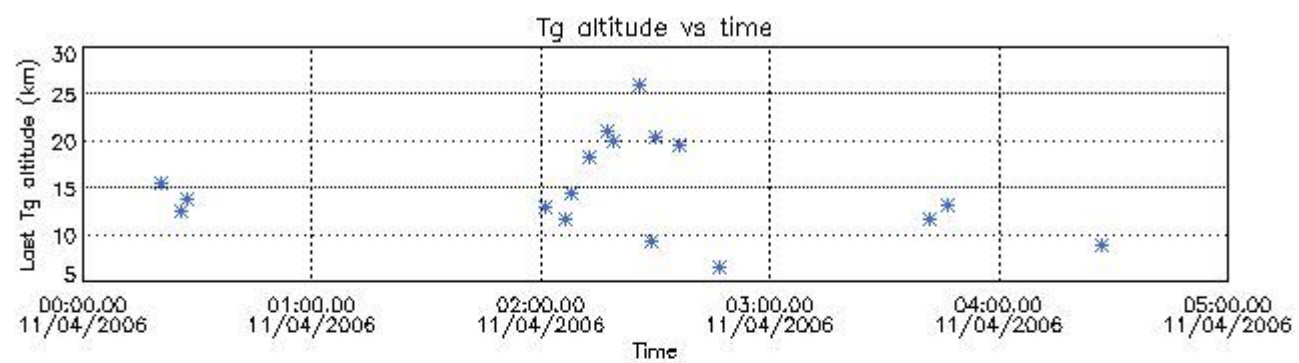
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

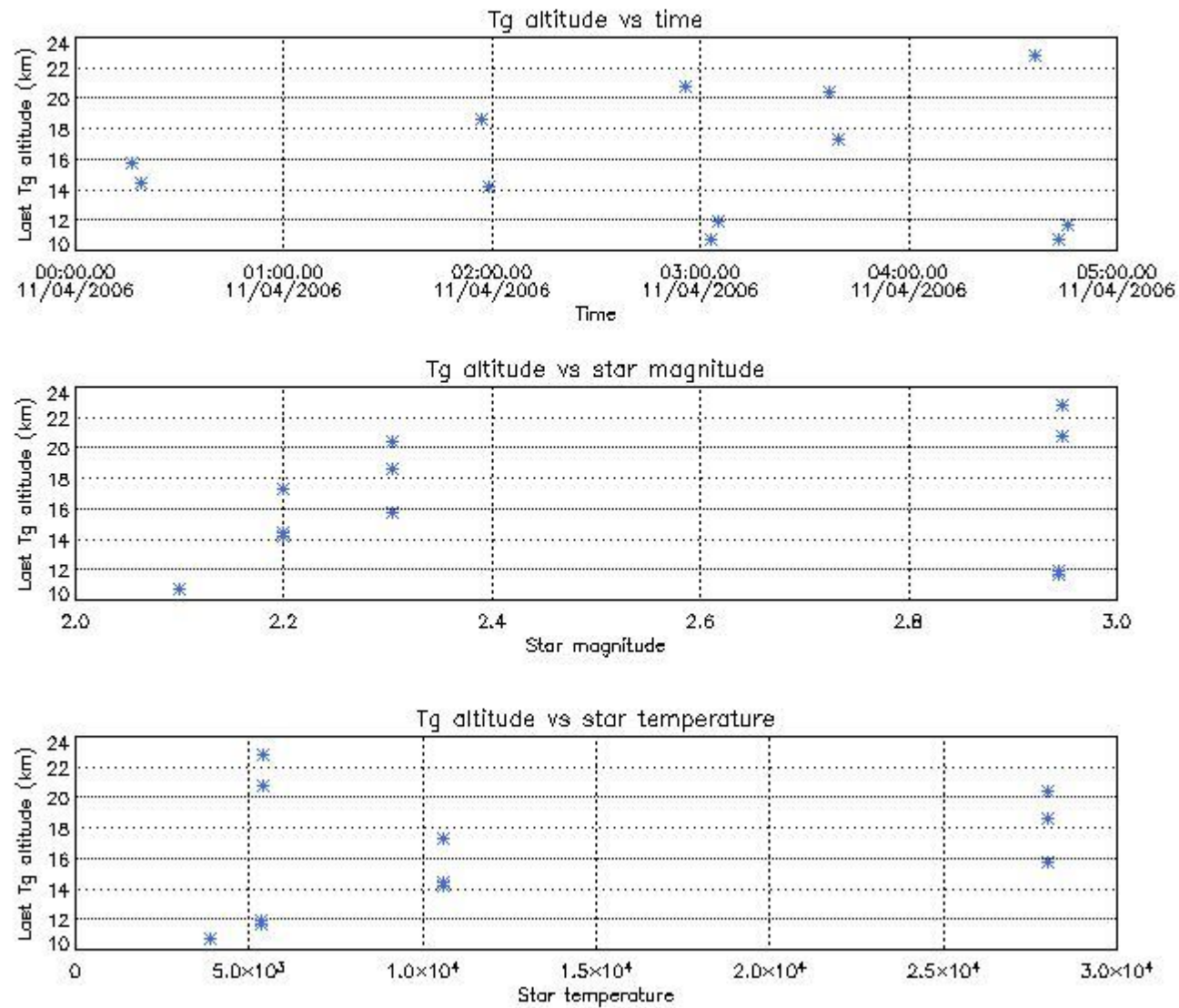
Tangent altitude at which the star is lost



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

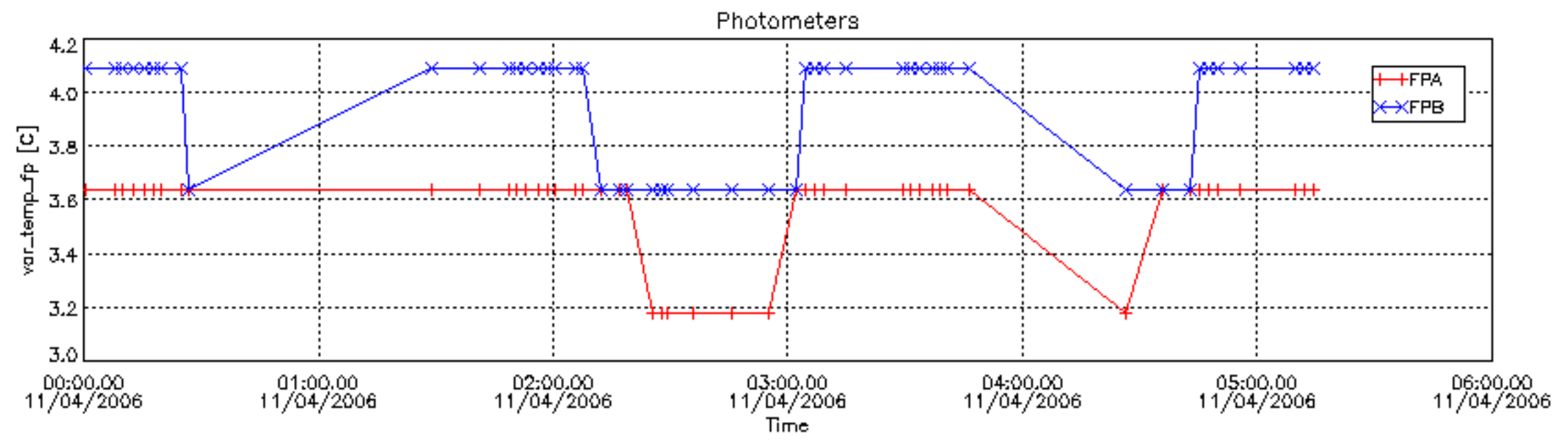
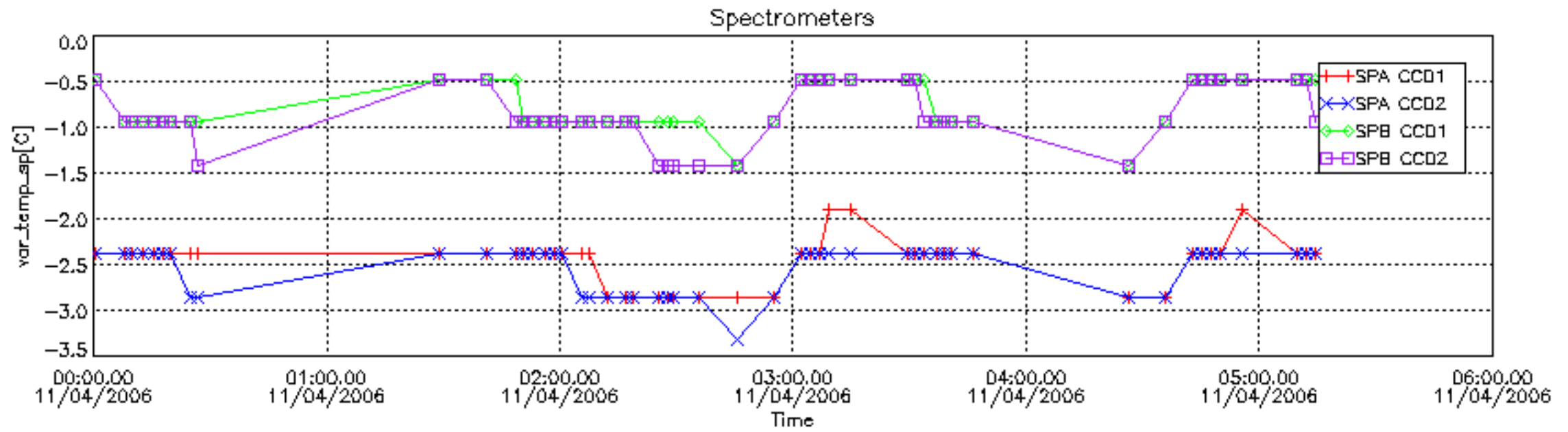
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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	1446.4	1461.5	1445.8
St. deviation:	5.9606	11.037	6.7286	11.451
Maximum:	1509.0	1522.0	1497.0	1502.0
Minimum:	1454.0	1402.0	1427.0	1410.0
Number of data:	18700.	18700.	14700.	14700.

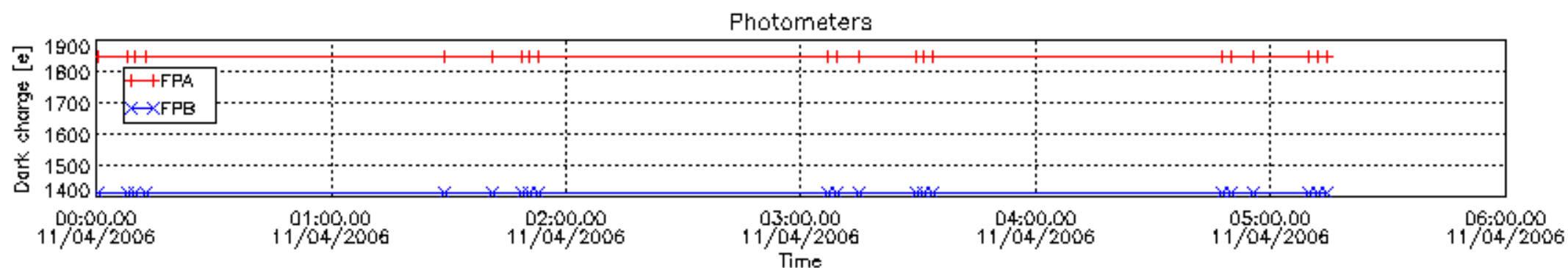
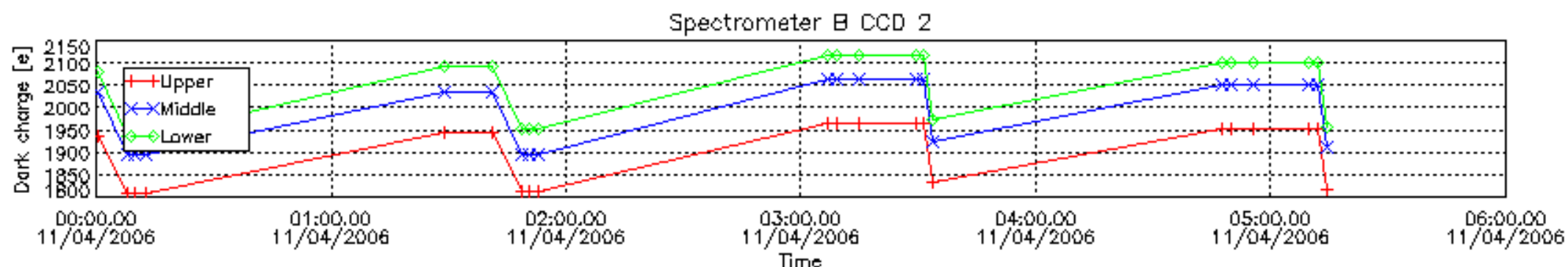
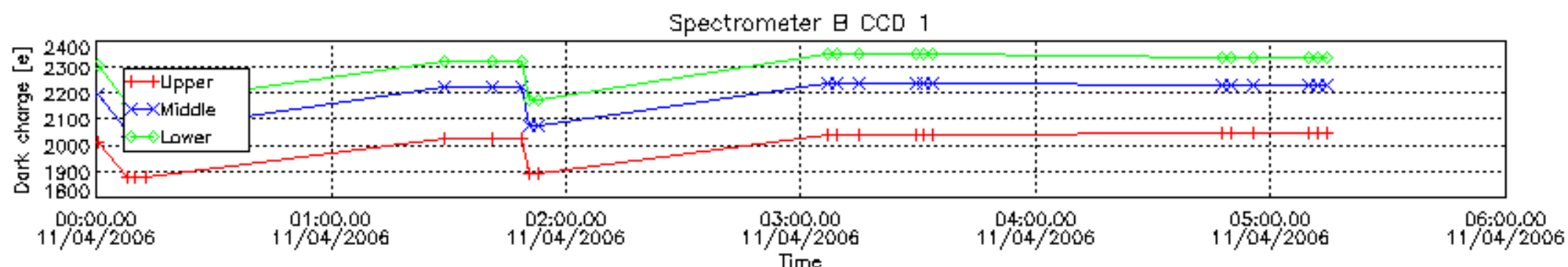
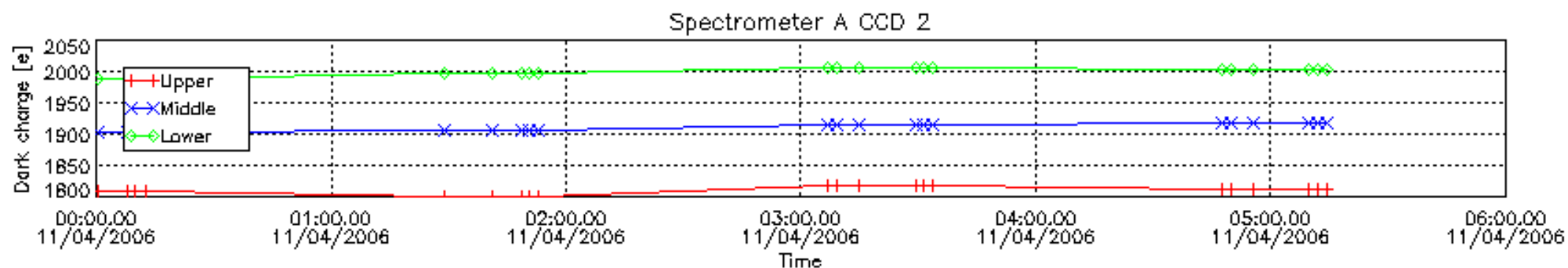
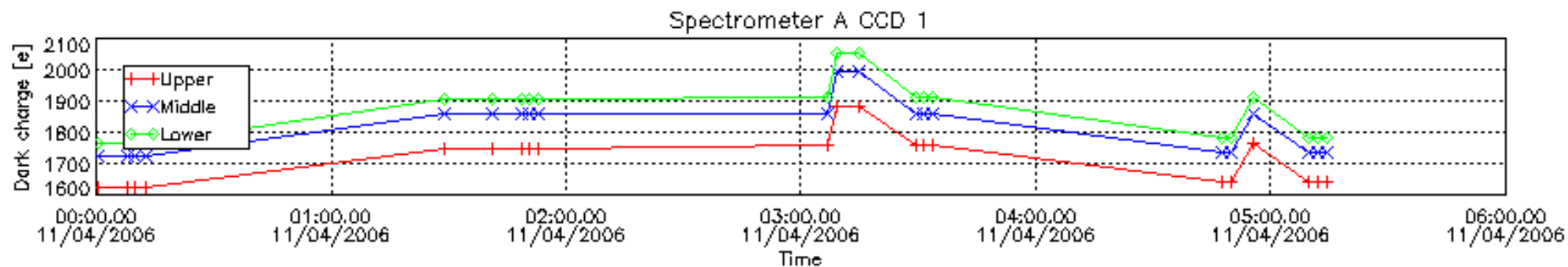
## 8. Auxiliary Data Files used for the production reported in section 2.2

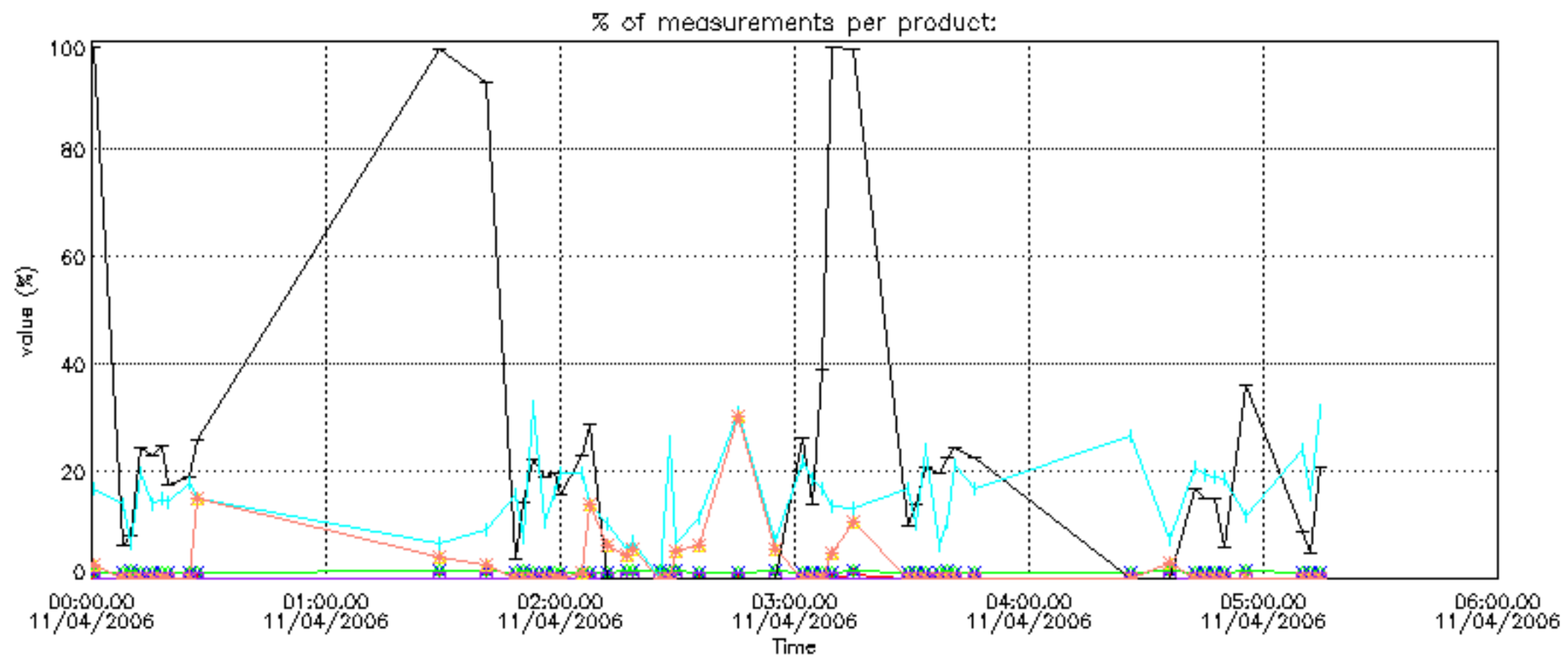
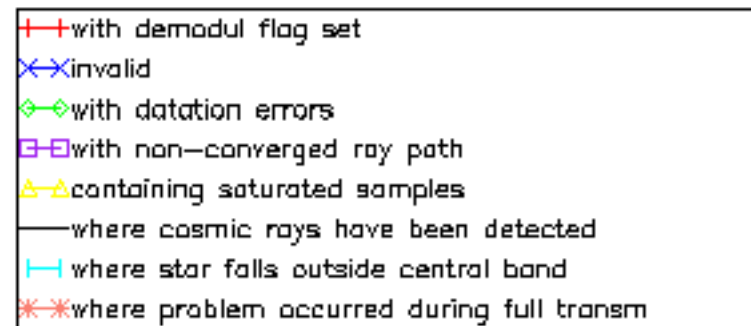
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	11-APR-2006 00:00:30
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060331_091607_20060329_000000_20100101_000000	1	11-APR-2006 00:00:30
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	11-APR-2006 00:00:30
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-APR-2006 00:00:30
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	11-APR-2006 00:00:30
ECMWF_FILE	AUX_ECF_AXNECM20060410_062106_20060410_210000_20060411_090000	1	11-APR-2006 00:00:30
ECMWF_FILE	AUX_ECA_AXNECM20060411_061201_20060410_210000_20060411_090000	41	11-APR-2006 04:26:14
OPTIONAL_ECMWF_FILE	NOT USED	1	11-APR-2006 00:00:30
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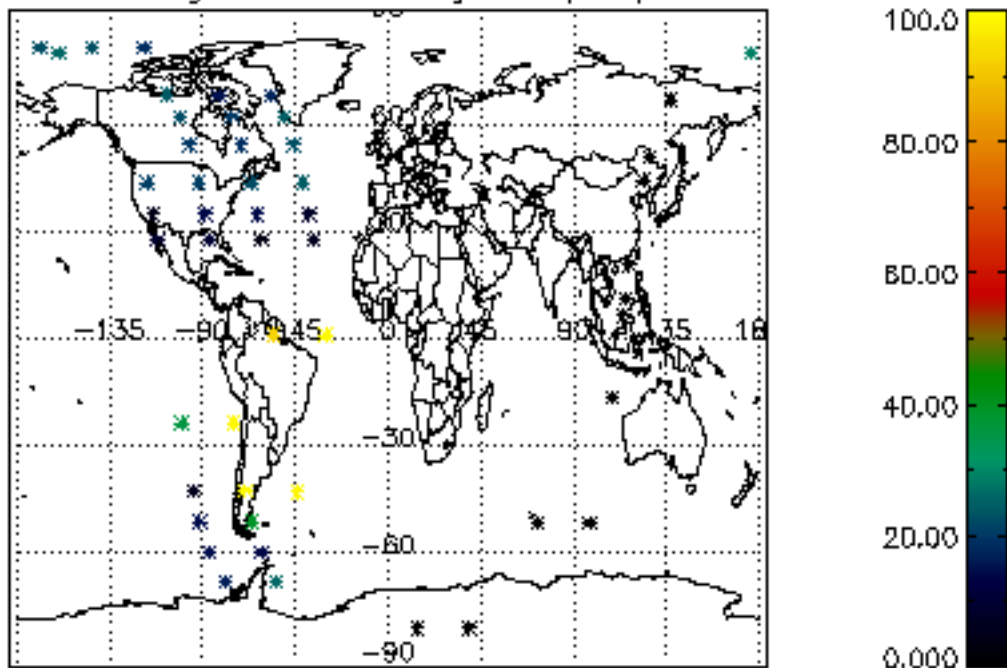




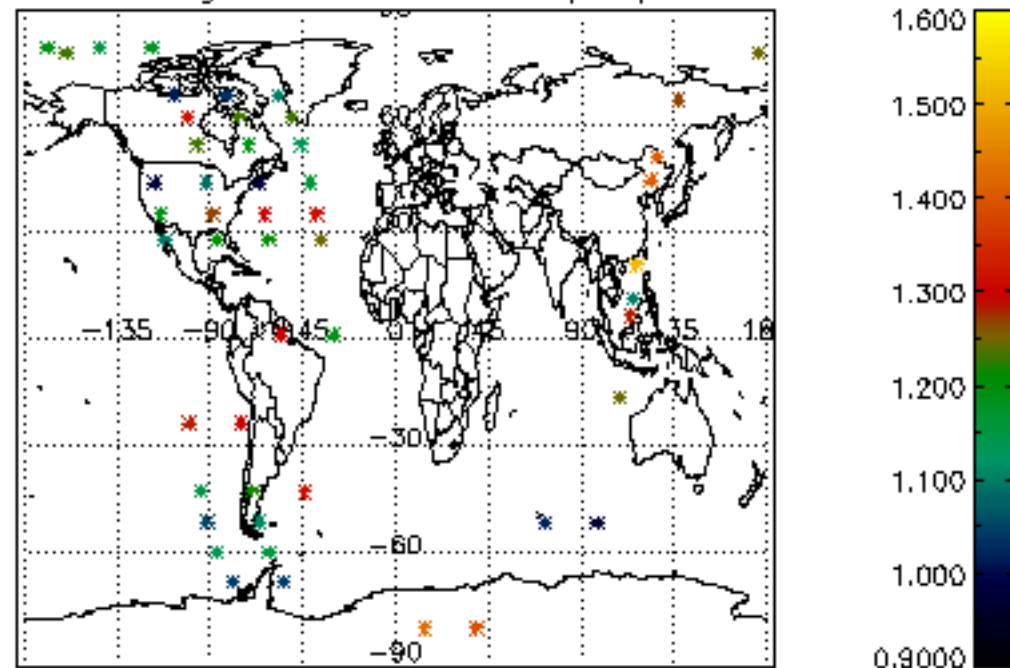




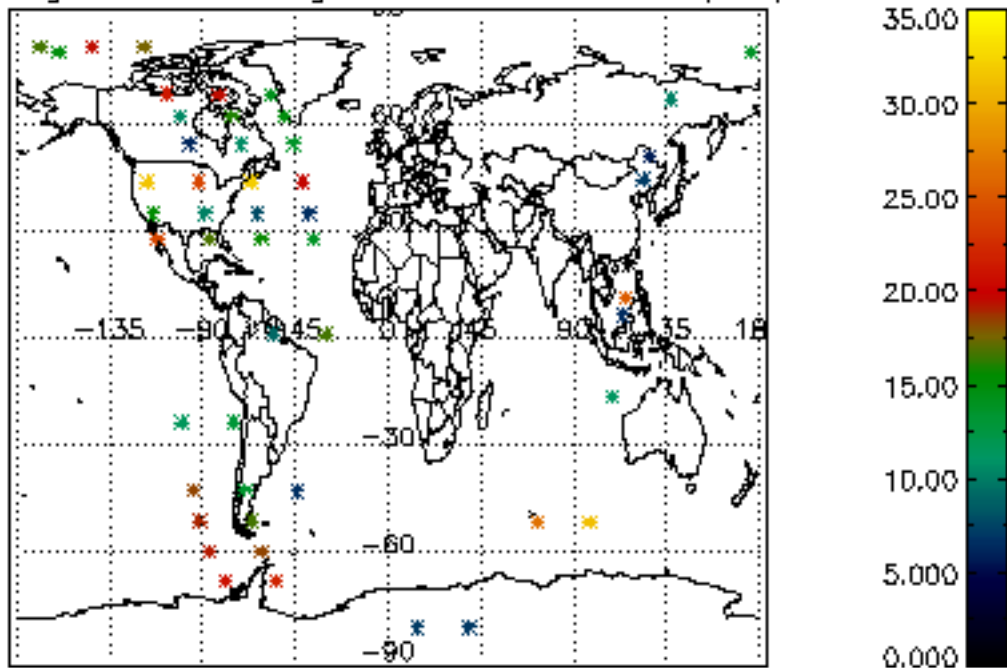
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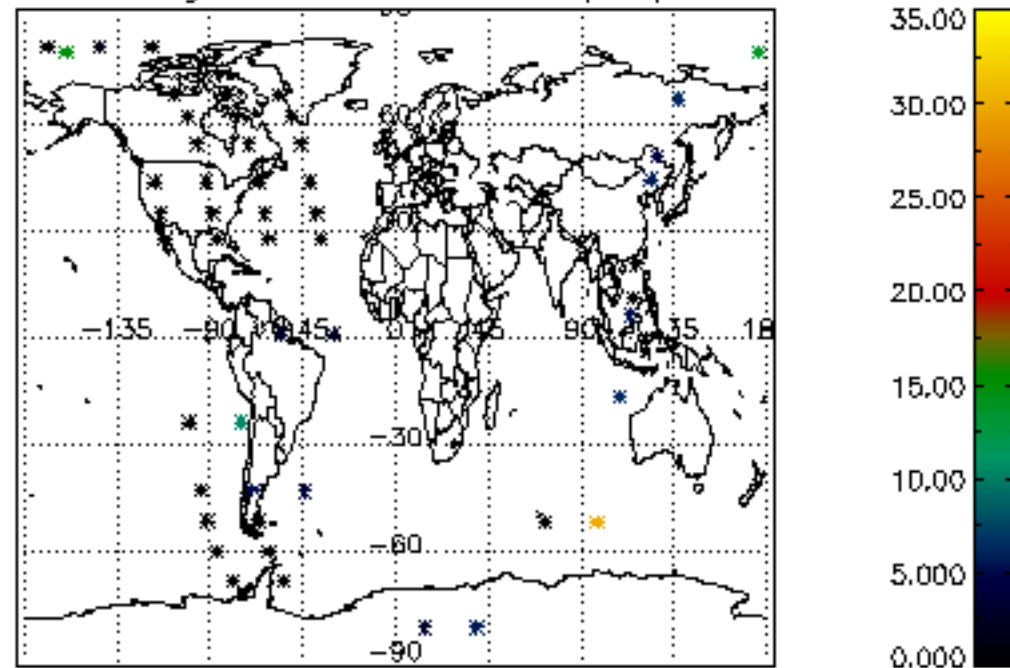
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

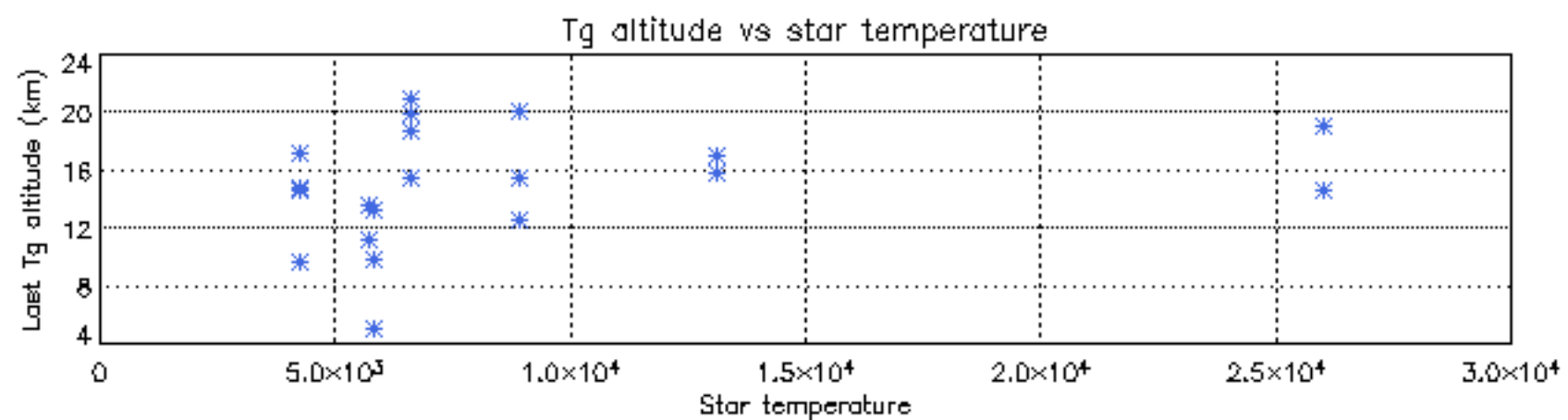
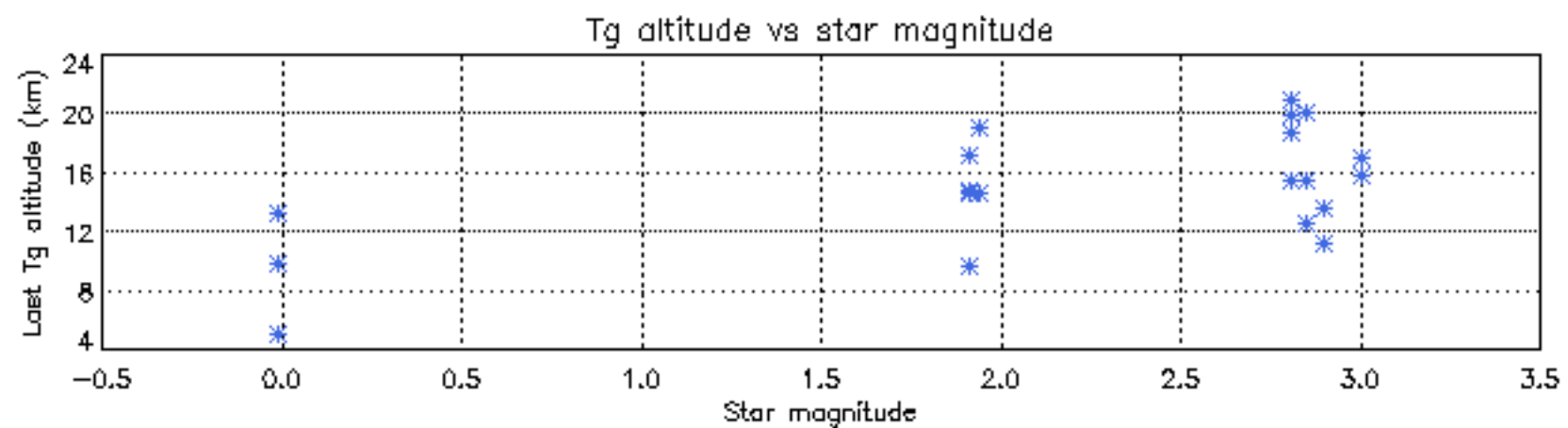
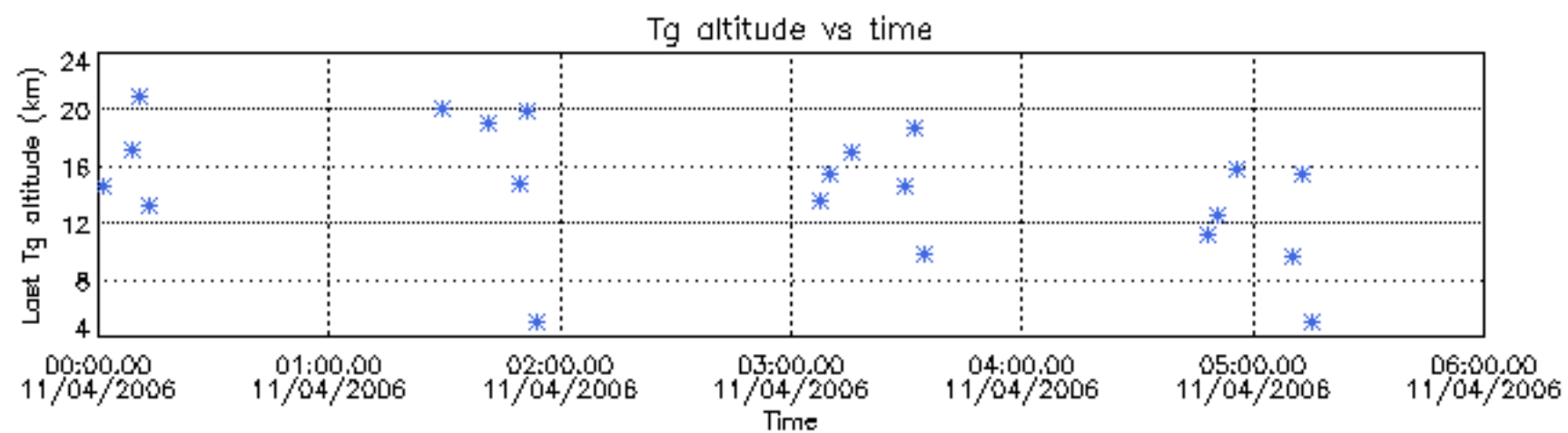


Percentage of saturation errors per profile

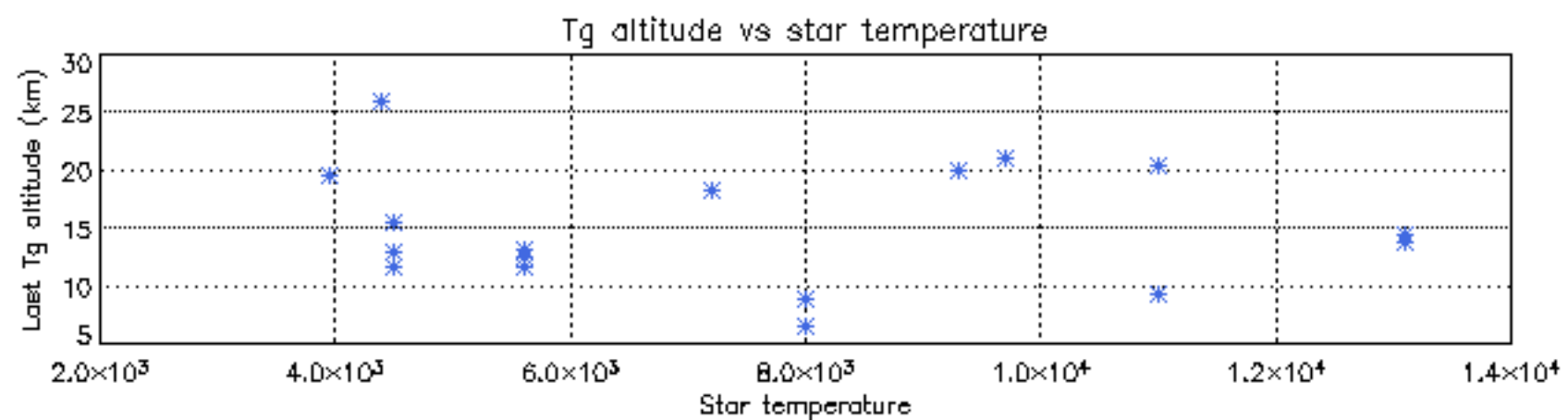
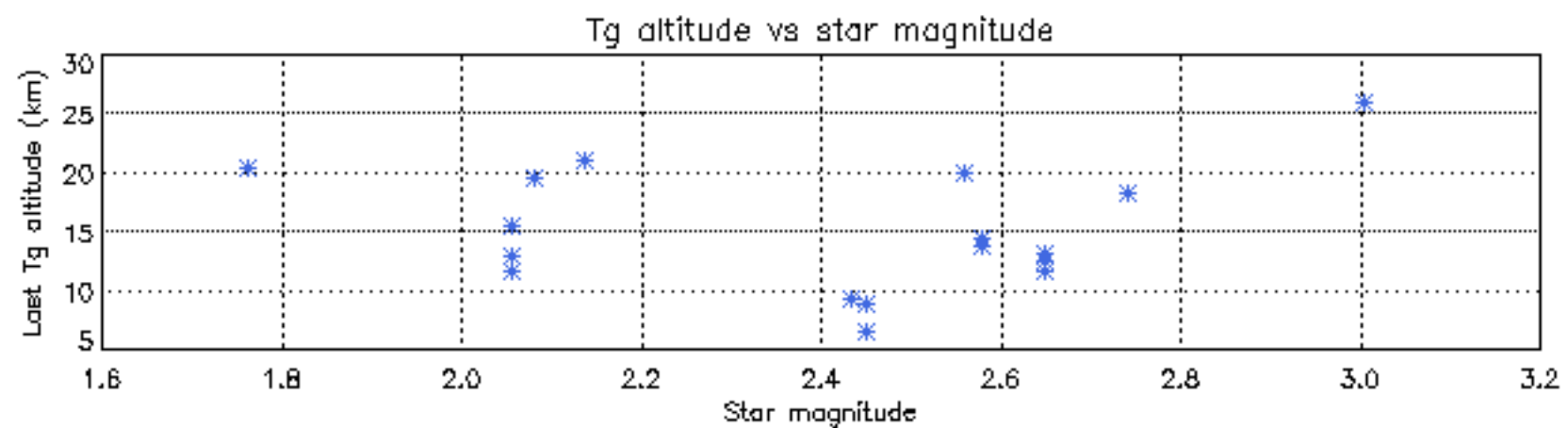
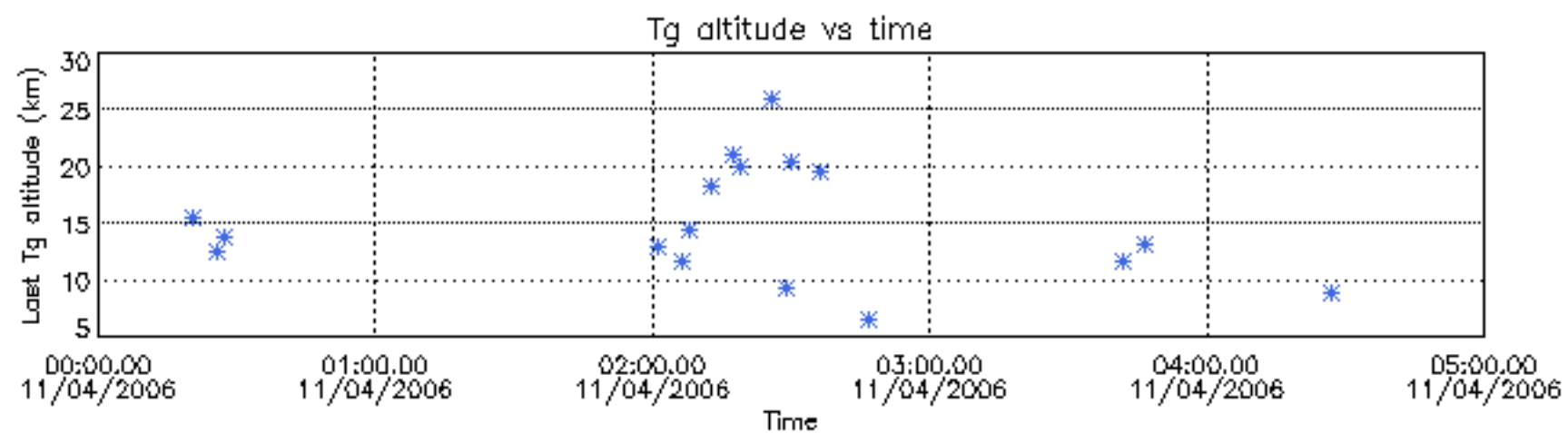




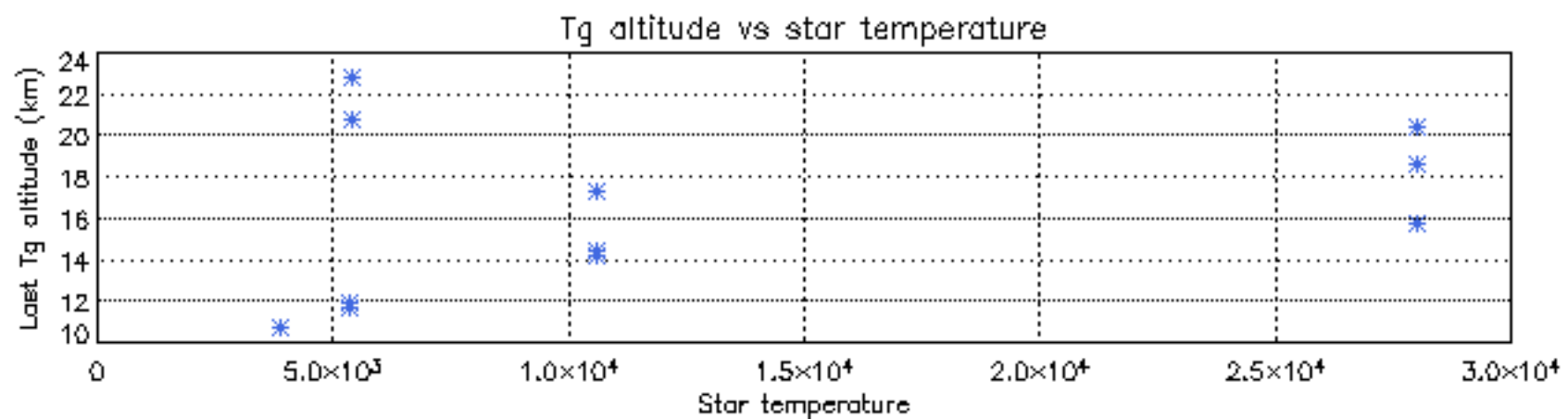
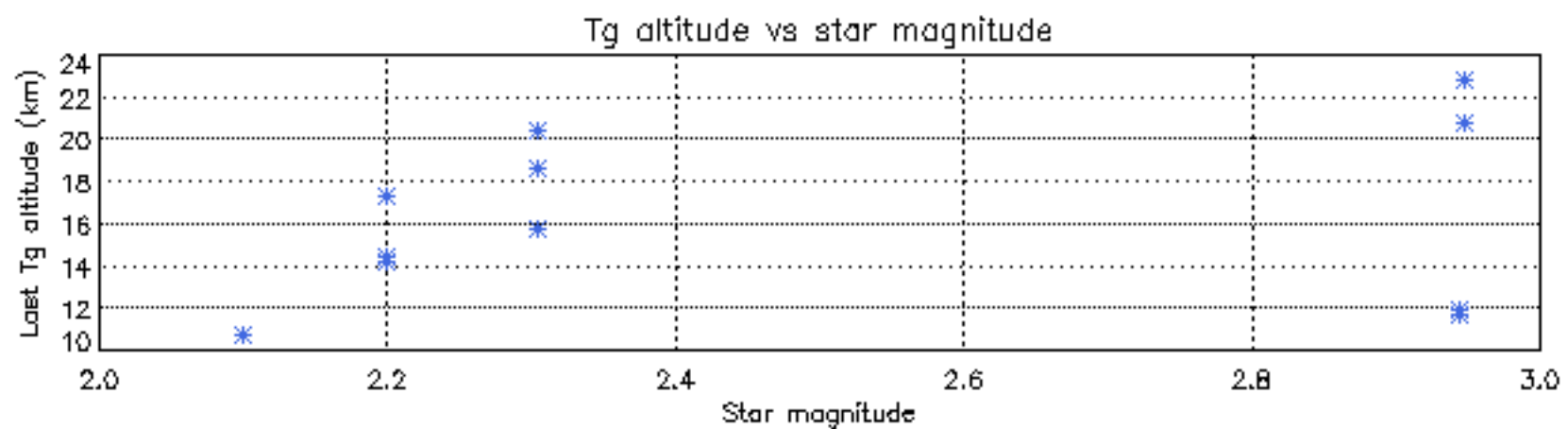
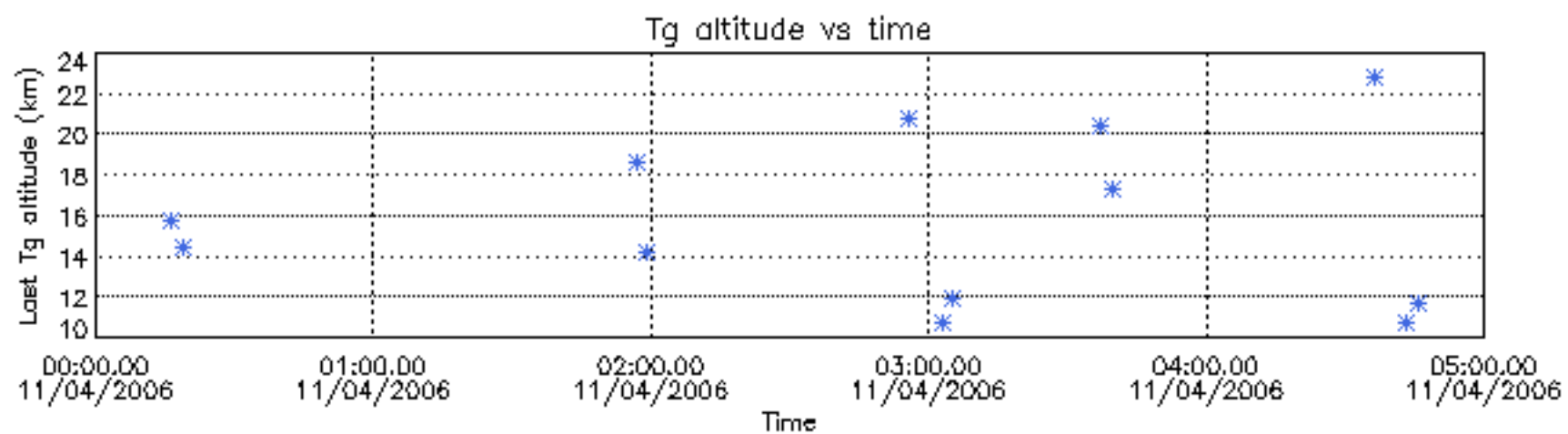
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 19; 4213.6; 01-APR-2006 01:24:46; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;21356  
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 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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 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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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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 6;-3778.9; 01-APR-2006 17:38:09; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21366  
 7;-3370.2; 01-APR-2006 17:44:58; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;21366  
 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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 2;-4863.9; 01-APR-2006 19:00:40; Dark ; 43.0; 123; Iot Cen ; 2.75; 10200;occ; 86; 0;21367  
 3;-4574.0; 01-APR-2006 19:05:30; Dark ; 45.5; 106; 9Bet Crv ; 2.65; 5600;occ; 91; 0;21367  
 4;-4456.6; 01-APR-2006 19:07:28; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;21367  
 5;-3876.1; 01-APR-2006 19:17:08; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21367  
 6;-3778.9; 01-APR-2006 19:18:45; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21367  
 7;-3370.2; 01-APR-2006 19:25:34; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;21367  
 8;-3189.7; 01-APR-2006 19:28:34; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;21367  
 9;-3078.6; 01-APR-2006 19:30:26; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;21367  
 10;-2701.0; 01-APR-2006 19:36:43; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;21367  
 11;-2596.0; 01-APR-2006 19:38:28; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;21367  
 12;-2134.5; 01-APR-2006 19:46:10; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;21367  
 13;-1822.6; 01-APR-2006 19:51:22; Bright; 41.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 83; 0;21367  
 14;-1600.7; 01-APR-2006 19:55:04; Bright; 42.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 84; 0;21367  
 15;-1206.6; 01-APR-2006 20:01:38; Dark ; 46.5; 61; 8Eps Peg ; 2.10; 3900;occ; 93; 0;21367  
 16; -930.3; 01-APR-2006 20:06:14; Dark ; 44.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 89; 0;21367  
 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  
 21; 845.5; 01-APR-2006 20:35:50; Dark ; 47.5; 78; Alp Lup ; 2.30; 28000;occ; 95; 0;21368  
 22; 1017.7; 01-APR-2006 20:38:42; Dark ; 5.0; 64; Gam Cen ; 2.20; 10600;occ; 10; 0;21368

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1; -304.0; 02-APR-2006 01:18:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21370  
 2; 343.1; 02-APR-2006 01:29:15; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;21371  
 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  
 16; 3440.0; 02-APR-2006 02:20:52; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;21371

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 2;-1822.7; 02-APR-2006 02:33:45; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;21371  
 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  
 21; 3440.1; 02-APR-2006 04:01:28; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;21372

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1;-2134.9; 02-APR-2006 04:09:09; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;21372  
 2;-1822.7; 02-APR-2006 04:14:21; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;21372  
 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  
 14; 1580.2; 02-APR-2006 05:11:04; Dark ; 43.5; 100; 4Gam Crv ; 2.58; 13100;occ; 87; 0;21373  
 15; 2159.2; 02-APR-2006 05:20:43; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;21373  
 16; 2257.3; 02-APR-2006 05:22:21; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21373  
 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  
 21; 3440.1; 02-APR-2006 05:42:04; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;21373

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 2; 4213.3; 02-APR-2006 05:54:57; Bright; 42.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 84; 0;21373  
 3; 4435.9; 02-APR-2006 05:58:40; Bright; 41.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 83; 0;21373  
 4; 4831.2; 02-APR-2006 06:05:15; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;21373  
 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



7; 6381.3; 02-APR-2006 06:31:05; Dark ; 50.0; 141; Bet Ara ; 2.84; 4600;occ; 100; 0;21373  
8; 6560.3; 02-APR-2006 06:34:04; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;21373  
9; 6718.0; 02-APR-2006 06:36:42; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;21373  
10; 6885.3; 02-APR-2006 06:39:29; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;21373  
11; 7055.6; 02-APR-2006 06:42:19; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;21373  
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  
15; 8195.2; 02-APR-2006 07:01:19; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;21373  
16; 8293.2; 02-APR-2006 07:02:57; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21373  
17; 8701.3; 02-APR-2006 07:09:45; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;21373  
18; 8880.7; 02-APR-2006 07:12:44; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;21373  
19; 8993.1; 02-APR-2006 07:14:37; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;21373  
20; 9368.7; 02-APR-2006 07:20:52; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;21373  
21; 9476.1; 02-APR-2006 07:22:40; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;21373

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2; 1021.9; 02-APR-2006 20:07:09; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;21382  
3; 1111.8; 02-APR-2006 20:08:39; Dark ; 26.0; 54; 5The Cen ; 2.06; 4500;occ; 52; 0;21382  
4; 1177.7; 02-APR-2006 20:09:45; Dark ; 43.0; 123; Tot Cen ; 2.75; 10200;occ; 86; 0;21382  
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  
12; 2842.9; 02-APR-2006 20:37:30; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;21382  
13; 2956.6; 02-APR-2006 20:39:24; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;21382  
14; 3329.9; 02-APR-2006 20:45:37; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;21382  
15; 3440.1; 02-APR-2006 20:47:28; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;21382  
16; 3900.6; 02-APR-2006 20:55:08; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;21382  
17; 4212.8; 02-APR-2006 21:00:20; Bright; 40.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 80; 0;21382  
18; 4833.7; 02-APR-2006 21:10:41; Dark ; 45.0; 61; 8Eps Peg ; 2.10; 3900;occ; 90; 0;21382  
19; 5111.5; 02-APR-2006 21:15:19; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;21382

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2; 351.9; 02-APR-2006 21:36:35; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;21383  
3; 528.8; 02-APR-2006 21:39:32; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21383  
4; 686.0; 02-APR-2006 21:42:09; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;21383  
5; 854.7; 02-APR-2006 21:44:58; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;21383  
6; 1022.3; 02-APR-2006 21:47:46; Dark ; 38.5; 64; Gam Cen ; 2.20; 10600;occ; 77; 0;21383  
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  
9; 1435.4; 02-APR-2006 21:54:39; Dark ; 27.0; 169; 46Gam Hya ; 2.99; 4700;occ; 54; 0;21383  
10; 1495.1; 02-APR-2006 21:55:39; Dark ; 42.5; 171; 2Eps Crv ; 3.00; 4250;occ; 85; 0;21383  
11; 1581.5; 02-APR-2006 21:57:05; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;21383  
12; 1880.4; 02-APR-2006 22:02:04; Bright; 41.5; 121; 29Gam Vir ; 2.74; 7200;occ; 83; 0;21383  
13; 2158.4; 02-APR-2006 22:06:42; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;21383  
14; 2257.2; 02-APR-2006 22:08:21; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21383  
15; 2664.8; 02-APR-2006 22:15:08; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;21383  
16; 2842.8; 02-APR-2006 22:18:06; Bright; 38.5; 87; 64Gam UMa ; 2.43; 11000;occ; 77; 0;21383  
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18; 3329.6; 02-APR-2006 22:26:13; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;21383  
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 9; 545.6; 05-APR-2006 03:18:59; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21415  
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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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16;	-383.9;	13-APR-2006	13:55:59;	Dark	;	39.5;	172;	Gam Gru	;	3.00;	13100;occ;	79;	0;	21535
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