

# GOMOS Daily Report 15-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	17APR2006 04:32:02

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (15APR2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (16APR2006 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)

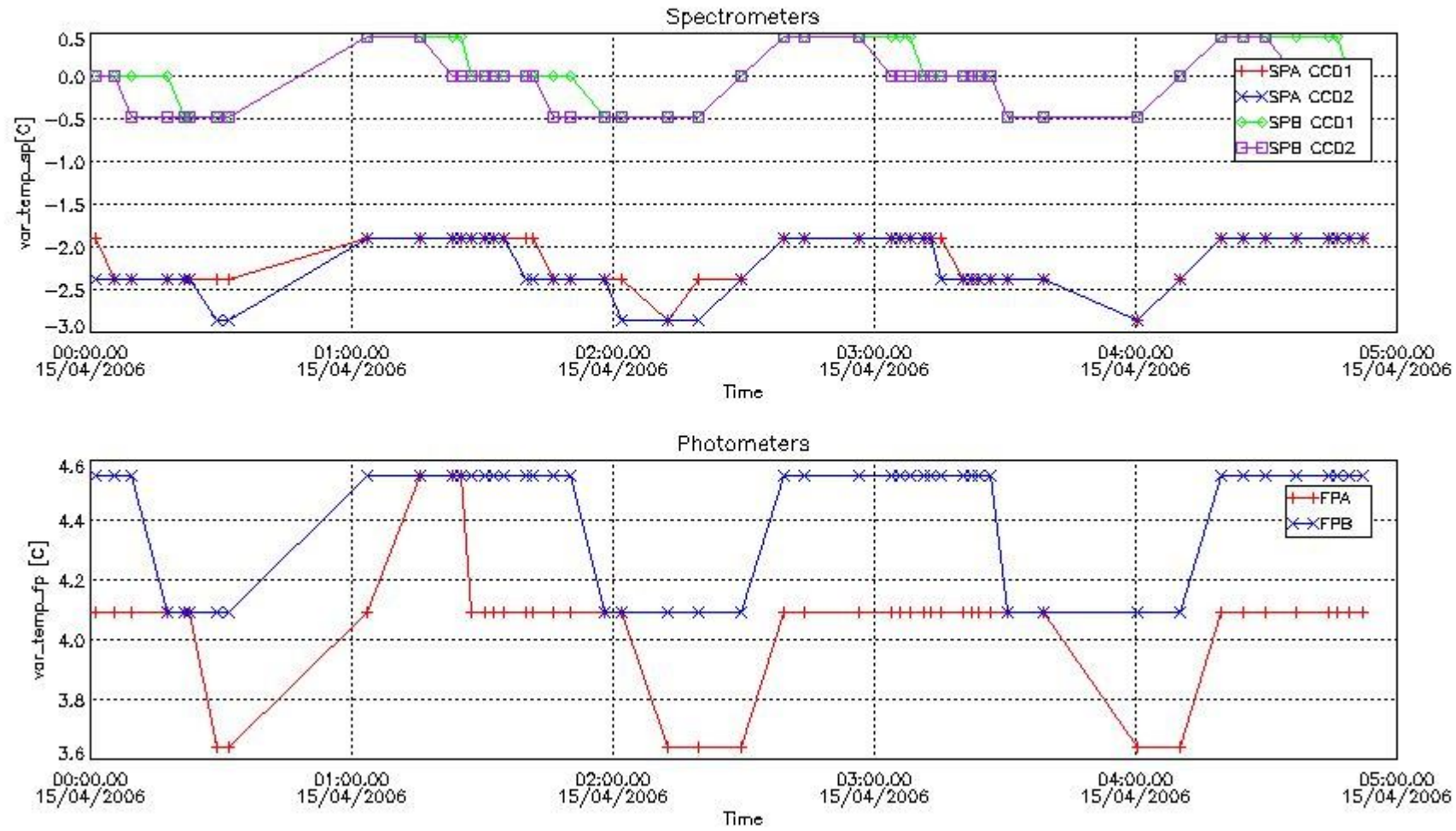
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060415_000109_000000462046_00460_21556_0009.N1	15-APR-2006 00:01:09	Bright	45.500	100	4Gam Crv	2.5800	13100.	91	21556	No
2	GOM_TRA_1PNPDE20060415_000537_000000382046_00460_21556_0010.N1	15-APR-2006 00:05:37	Bright	38.000	121	29Gam Vir	2.7400	7200.0	76	21556	No
3	GOM_TRA_1PNPDE20060415_000927_000000382046_00460_21556_0011.N1	15-APR-2006 00:09:27	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	21556	No
4	GOM_TRA_1PNPDE20060415_001735_000000362046_00460_21556_0012.N1	15-APR-2006 00:17:35	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	21556	No
5	GOM_TRA_1PNPDE20060415_002123_000000342046_00460_21556_0013.N1	15-APR-2006 00:21:23	Bright	34.000	87	64Gam UMa	2.4330	11000.	68	21556	No
6	GOM_TRA_1PNPDE20060415_002250_000000282046_00460_21556_0014.N1	15-APR-2006 00:22:50	Bright	28.000	55	79Zet UMa	2.0600	10200.	56	21556	No
7	GOM_TRA_1PNPDE20060415_002859_000000402046_00460_21556_0015.N1	15-APR-2006 00:28:59	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	21556	No
8	GOM_TRA_1PNPDE20060415_003145_000000322046_00460_21556_0016.N1	15-APR-2006 00:31:45	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	21556	No
9	GOM_TRA_1PNPDE20060415_010324_000000432046_00460_21556_0000.N1	15-APR-2006 01:03:24	Dark	43.000	142	49Del Cap	2.8500	8900.0	86	21556	No
10	GOM_TRA_1PNPDE20060415_011544_000000422046_00461_21557_0001.N1	15-APR-2006 01:15:44	Dark	41.500	45	Alp Pav	1.9400	26000.	83	21557	No
11	GOM_TRA_1PNPDE20060415_012307_000000412046_00461_21557_0002.N1	15-APR-2006 01:23:07	Dark	40.500	43	Alp TrA	1.9100	4250.0	81	21557	No
12	GOM_TRA_1PNPDE20060415_012512_000000402046_00461_21557_0003.N1	15-APR-2006 01:25:12	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	21557	No
13	GOM_TRA_1PNPDE20060415_012737_000000442046_00461_21557_0004.N1	15-APR-2006 01:27:37	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	21557	No
14	GOM_TRA_1PNPDE20060415_013046_000000422046_00461_21557_0005.N1	15-APR-2006 01:30:46	Twilight	42.000	78	Alp Lup	2.3040	28000.	84	21557	No
15	GOM_TRA_1PNPDE20060415_013222_000000452046_00461_21557_0006.N1	15-APR-2006 01:32:22	Twilight	45.000	81	Eta Cen	2.3560	28000.	90	21557	No
16	GOM_TRA_1PNPDE20060415_013445_000000472046_00461_21557_0007.N1	15-APR-2006 01:34:45	Bright	46.500	54	5The Cen	2.0550	4500.0	93	21557	No
17	GOM_TRA_1PNPDE20060415_013955_000000442046_00461_21557_0008.N1	15-APR-2006 01:39:55	Bright	43.500	106	9Bet Crv	2.6480	5600.0	87	21557	No
18	GOM_TRA_1PNPDE20060415_014145_000000462046_00461_21557_0009.N1	15-APR-2006 01:41:45	Bright	46.000	100	4Gam Crv	2.5800	13100.	92	21557	No
19	GOM_TRA_1PNPDE20060415_014613_000000392046_00461_21557_0010.N1	15-APR-2006 01:46:13	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	21557	No
20	GOM_TRA_1PNPDE20060415_015002_000000402046_00461_21557_0011.N1	15-APR-2006 01:50:02	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	21557	No
21	GOM_TRA_1PNPDE20060415_015811_000000392046_00461_21557_0012.N1	15-APR-2006 01:58:11	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	21557	No
22	GOM_TRA_1PNPDE20060415_020159_000000372046_00461_21557_0013.N1	15-APR-2006 02:01:59	Bright	36.500	87	64Gam UMa	2.4330	11000.	73	21557	No
23	GOM_TRA_1PNPDE20060415_021221_000000322046_00461_21557_0000.N1	15-APR-2006 02:12:21	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	21557	No
24	GOM_TRA_1PNPDE20060415_021939_000000382046_00461_21557_0000.N1	15-APR-2006 02:19:39	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	21557	No
25	GOM_TRA_1PNPDE20060415_022931_000000352046_00461_21557_0001.N1	15-APR-2006 02:29:31	Twilight	34.500	164	44Eta Peg	2.9480	5400.0	69	21557	No
26	GOM_TRA_1PNPDE20060415_023901_000000452046_00461_21557_0002.N1	15-APR-2006 02:39:01	Twilight	44.500	162	34Alp Aqr	2.9440	5350.0	89	21557	No
27	GOM_TRA_1PNPDE20060415_024401_000000432046_00461_21557_0003.N1	15-APR-2006 02:44:01	Dark	43.000	142	49Del Cap	2.8500	8900.0	86	21557	No
28	GOM_TRA_1PNPDE20060415_025620_000000402046_00462_21558_0004.N1	15-APR-2006 02:56:20	Dark	40.000	45	Alp Pav	1.9400	26000.	80	21558	No
29	GOM_TRA_1PNPDE20060415_030343_000000432046_00462_21558_0005.N1	15-APR-2006 03:03:43	Dark	42.500	43	Alp TrA	1.9100	4250.0	85	21558	No
30	GOM_TRA_1PNPDE20060415_030548_000000402046_00462_21558_0006.N1	15-APR-2006 03:05:48	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	21558	No
31	GOM_TRA_1PNPDE20060415_030813_000000522046_00462_21558_0007.N1	15-APR-2006 03:08:13	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	21558	No
32	GOM_TRA_1PNPDE20060415_031122_000000442046_00462_21558_0008.N1	15-APR-2006 03:11:22	Twilight	44.000	78	Alp Lup	2.3040	28000.	88	21558	No
33	GOM_TRA_1PNPDE20060415_031258_000000432046_00462_21558_0009.N1	15-APR-2006 03:12:58	Twilight	43.000	81	Eta Cen	2.3560	28000.	86	21558	No
34	GOM_TRA_1PNPDE20060415_031521_000000482046_00462_21558_0010.N1	15-APR-2006 03:15:21	Bright	47.500	54	5The Cen	2.0550	4500.0	95	21558	No
35	GOM_TRA_1PNPDE20060415_032031_000000412046_00462_21558_0011.N1	15-APR-2006 03:20:31	Bright	40.500	106	9Bet Crv	2.6480	5600.0	81	21558	No
36	GOM_TRA_1PNPDE20060415_032221_000000452046_00462_21558_0012.N1	15-APR-2006 03:22:21	Bright	44.500	100	4Gam Crv	2.5800	13100.	89	21558	No
37	GOM_TRA_1PNPDE20060415_032346_000000282046_00462_21558_0013.N1	15-APR-2006 03:23:46	Twilight	28.000	15	67Alp Vir	0.97600	28000.	56	21558	No
38	GOM_TRA_1PNPDE20060415_032649_000000382046_00462_21558_0014.N1	15-APR-2006 03:26:49	Bright	38.000	121	29Gam Vir	2.7400	7200.0	76	21558	No
39	GOM_TRA_1PNPDE20060415_033038_000000402046_00462_21558_0015.N1	15-APR-2006 03:30:38	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	21558	No
40	GOM_TRA_1PNPDE20060415_033846_000000382046_00462_21558_0016.N1	15-APR-2006 03:38:46	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	21558	No
41	GOM_TRA_1PNPDE20060415_040015_000000462046_00462_21558_0000.N1	15-APR-2006 04:00:15	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	21558	No
42	GOM_TRA_1PNPDE20060415_041007_000000372046_00462_21558_0001.N1	15-APR-2006 04:10:07	Twilight	36.500	164	44Eta Peg	2.9480	5400.0	73	21558	No
43	GOM_TRA_1PNPDE20060415_041938_000000442046_00462_21558_0002.N1	15-APR-2006 04:19:38	Twilight	44.000	162	34Alp Aqr	2.9440	5350.0	88	21558	No
44	GOM_TRA_1PNPDE20060415_042438_000000412046_00462_21558_0003.N1	15-APR-2006 04:24:38	Dark	40.500	142	49Del Cap	2.8500	8900.0	81	21558	No
45	GOM_TRA_1PNPDE20060415_042956_000000382046_00462_21558_0004.N1	15-APR-2006 04:29:56	Dark	37.500	172	Gam Gru	3.0030	13100.	75	21558	No
46	GOM_TRA_1PNPDE20060415_043657_000000392046_00463_21559_0005.N1	15-APR-2006 04:36:57	Dark	38.500	45	Alp Pav	1.9400	26000.	77	21559	No

47	GOM_TRA_1PNPDE20060415_044420_000000392046_00463_21559_0006.N1	15-APR-2006 04:44:20	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	21559	No
48	GOM_TRA_1PNPDE20060415_044625_000000392046_00463_21559_0007.N1	15-APR-2006 04:46:25	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	21559	No
49	GOM_TRA_1PNPDE20060415_044849_000000522046_00463_21559_0008.N1	15-APR-2006 04:48:49	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	21559	No
50	GOM_TRA_1PNPDE20060415_045159_000000412046_00463_21559_0009.N1	15-APR-2006 04:51:59	Twilight	41.000	78	Alp Lup	2.3040	28000.	82	21559	No

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



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

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

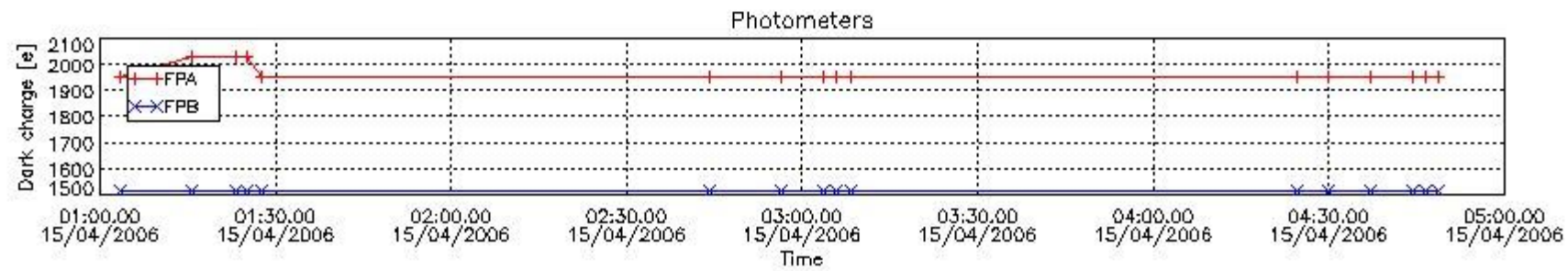
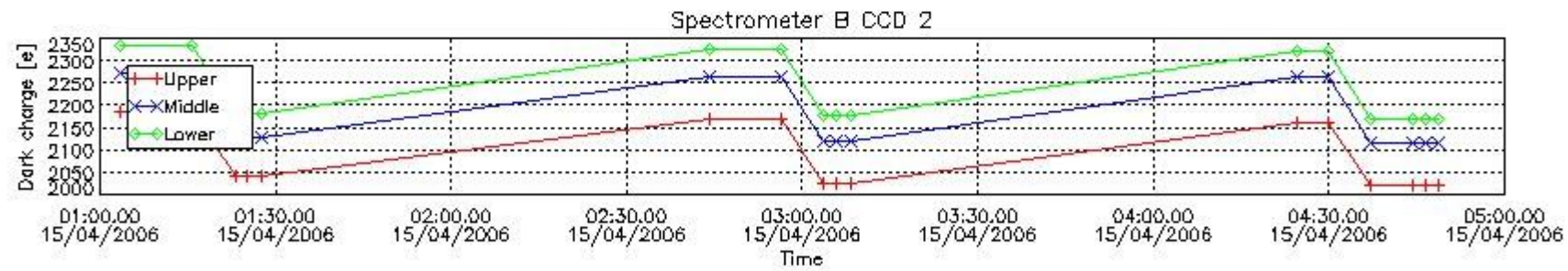
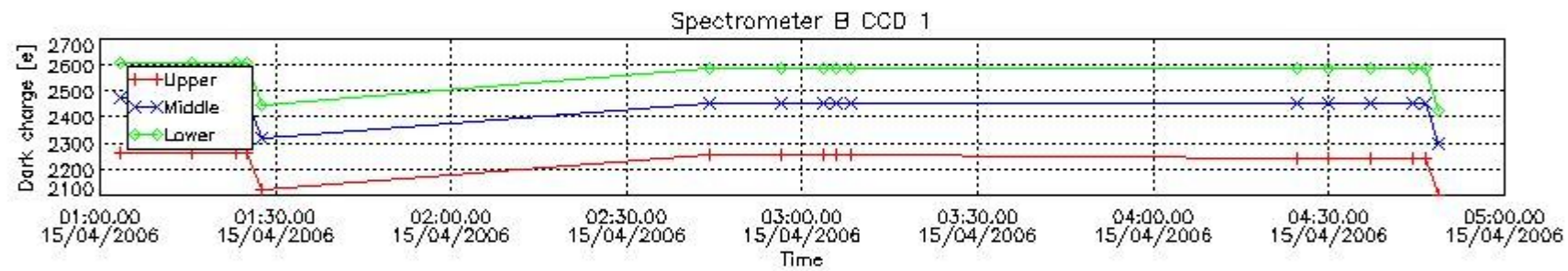
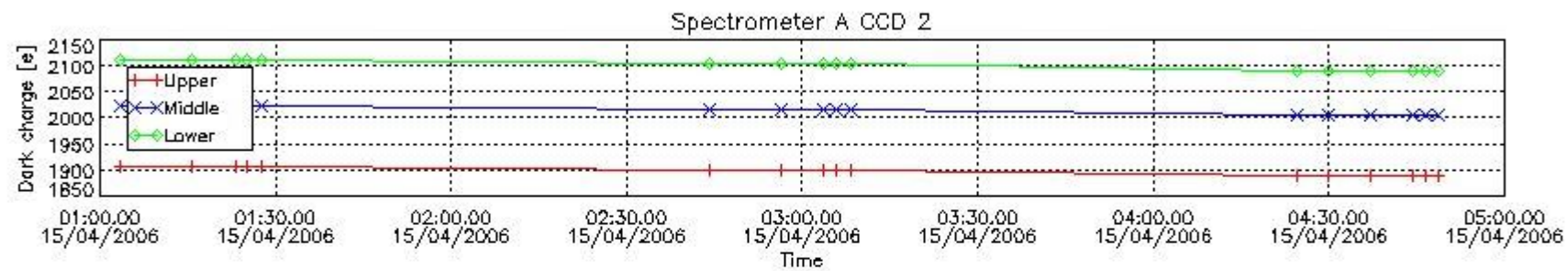
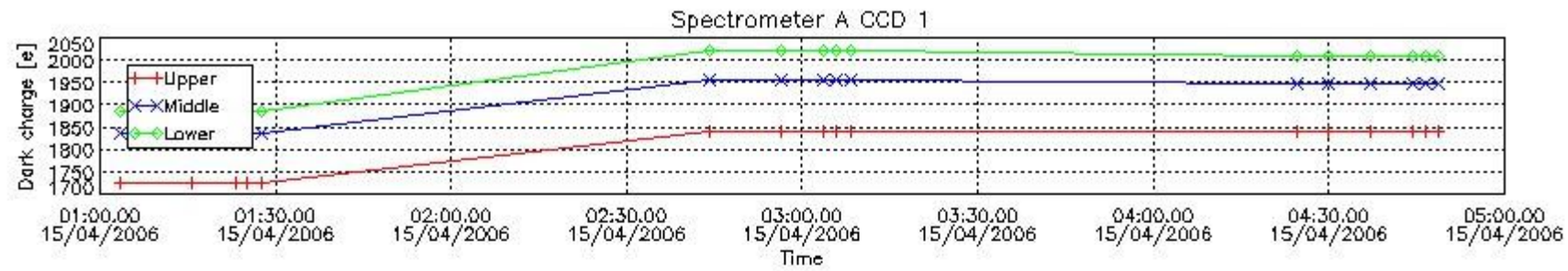
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20060415_021221_000000322046_00461_21557_0000.N1	DC map used (0)

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





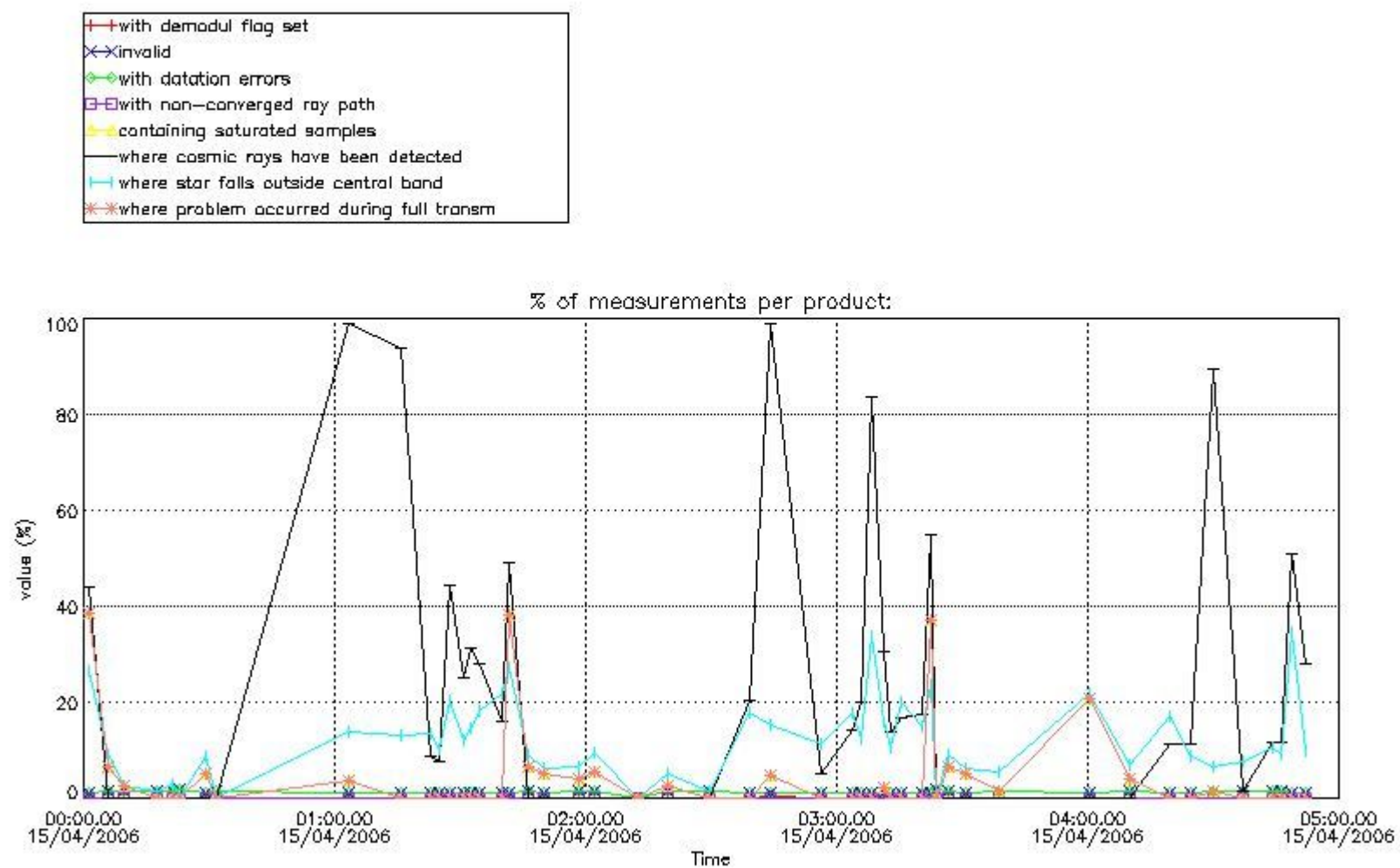
## 5. Demodulation flag and quality information monitoring

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:

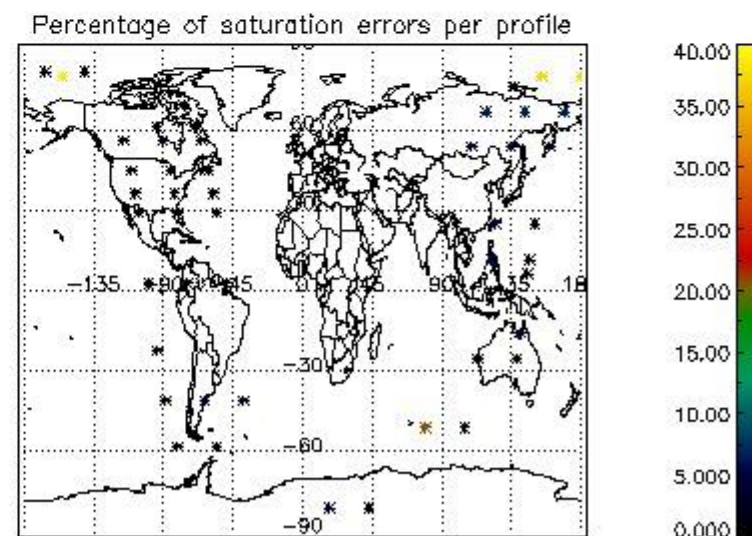
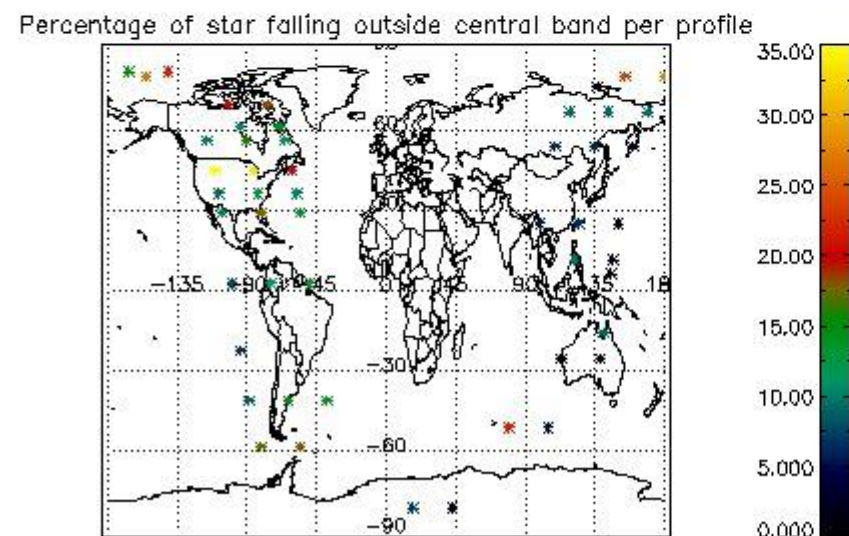
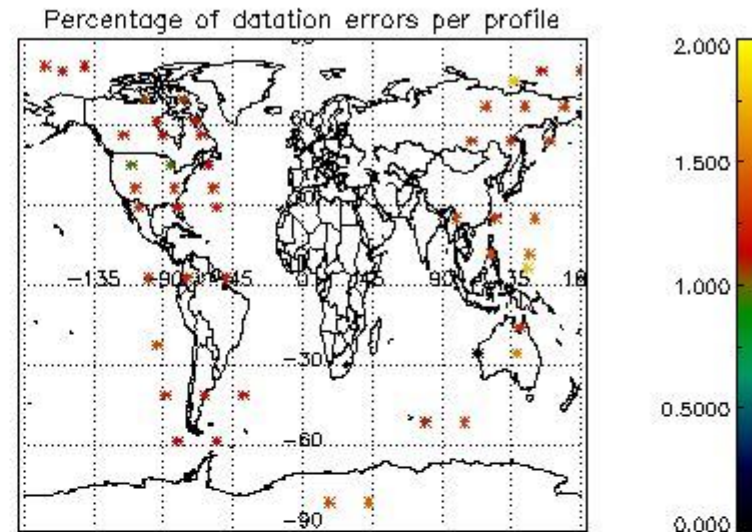
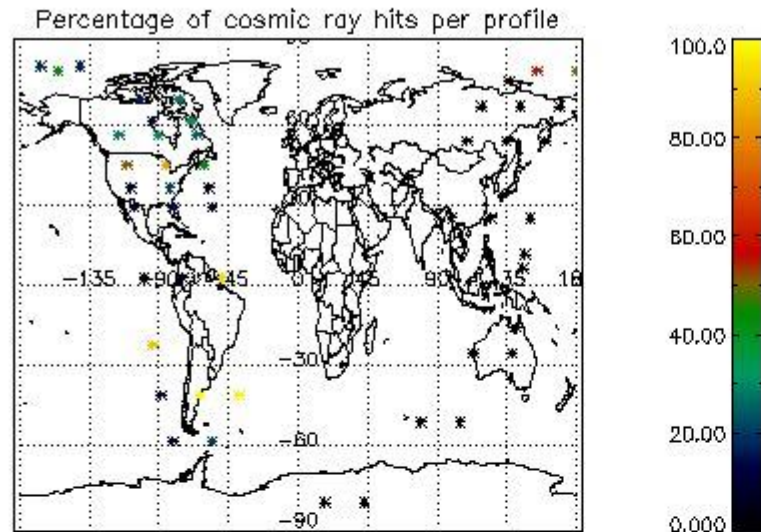
At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





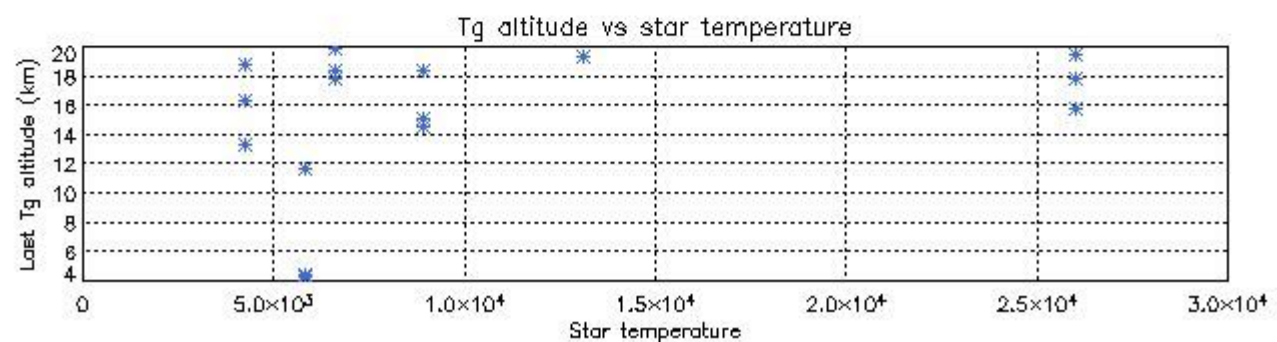
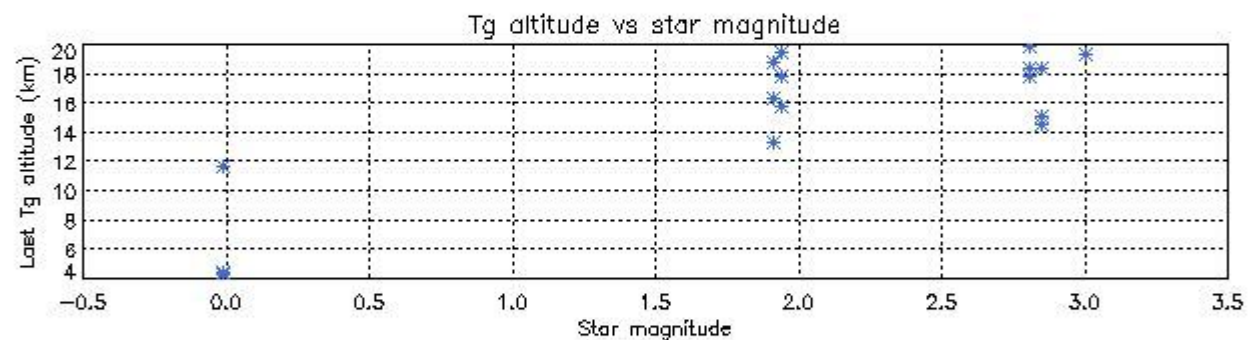
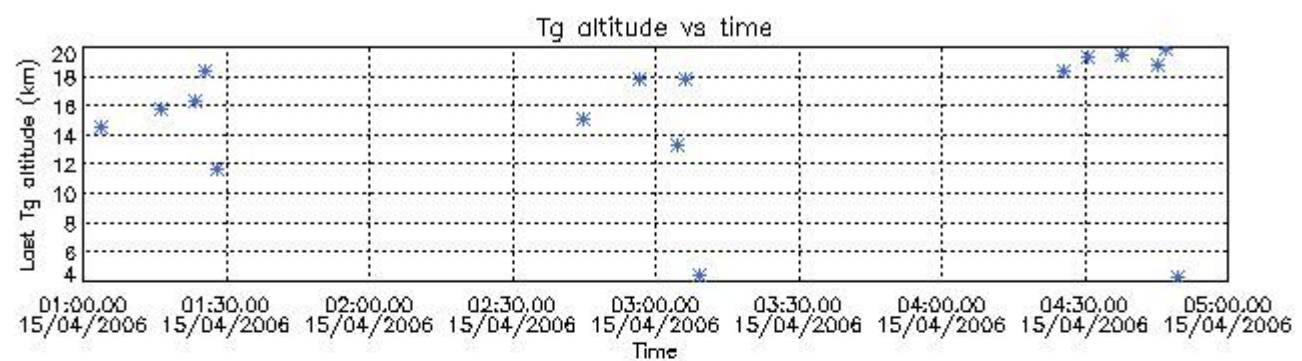
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.321	19.747	20.611
St. deviation:	4.8778	8.8788	11.471
Maximum:	19.871	50.108	51.451
Minimum:	4.3165	8.9256	12.337
Number of data:	16.000	24.000	10.000

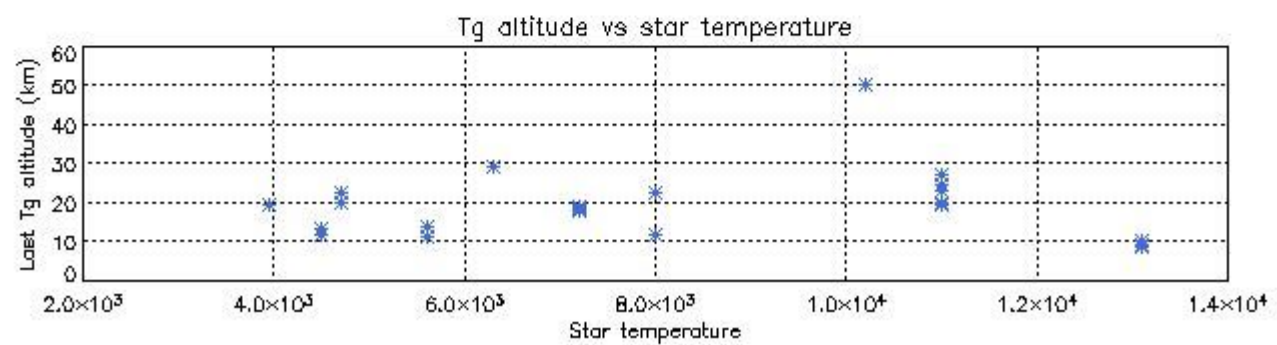
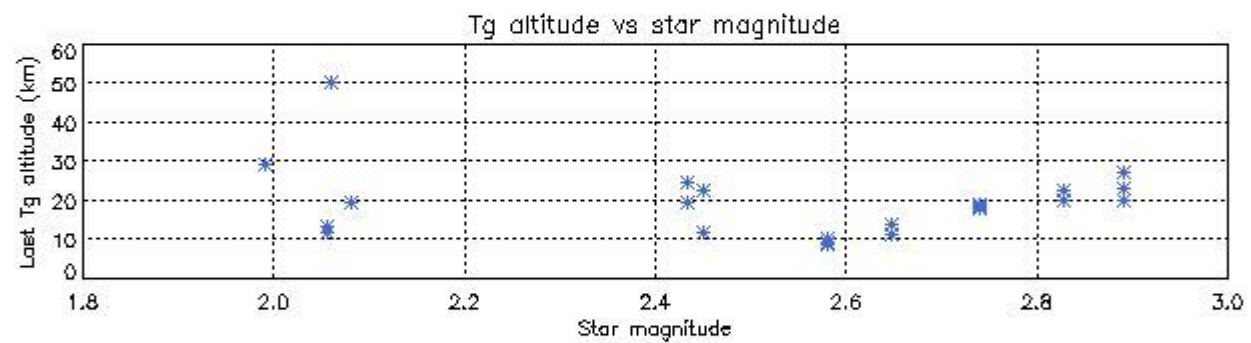
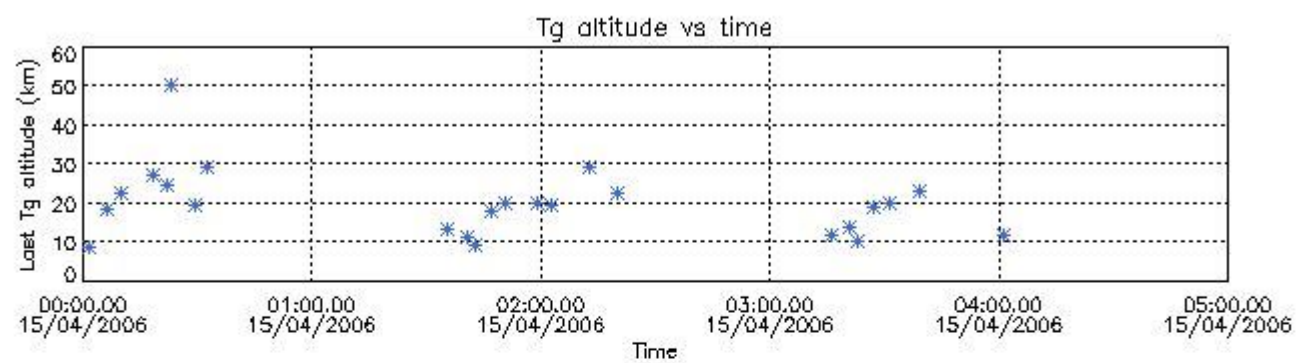
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

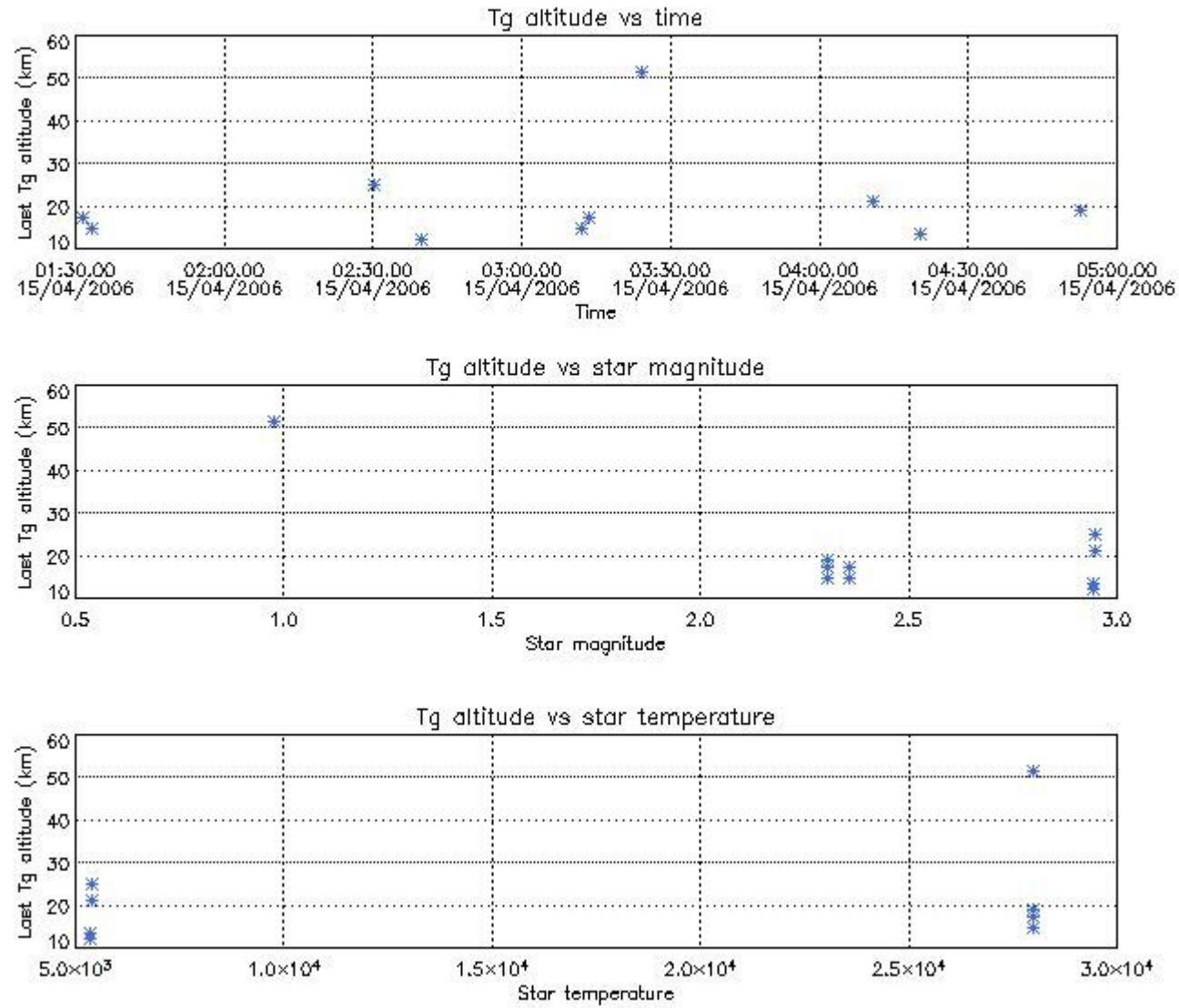
Tangent altitude at which the star is lost



### 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

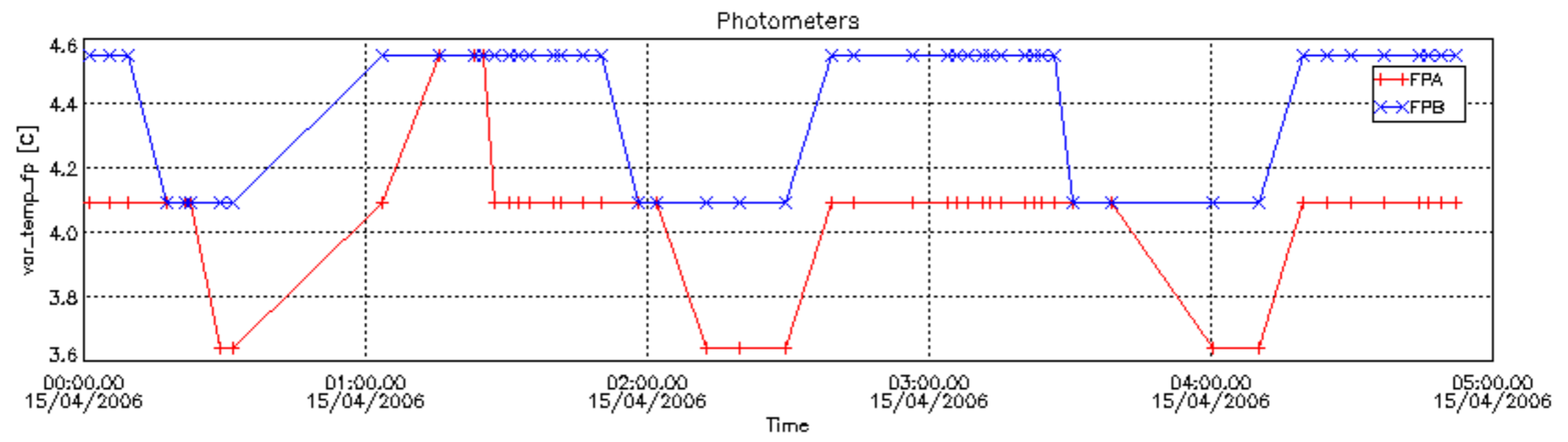
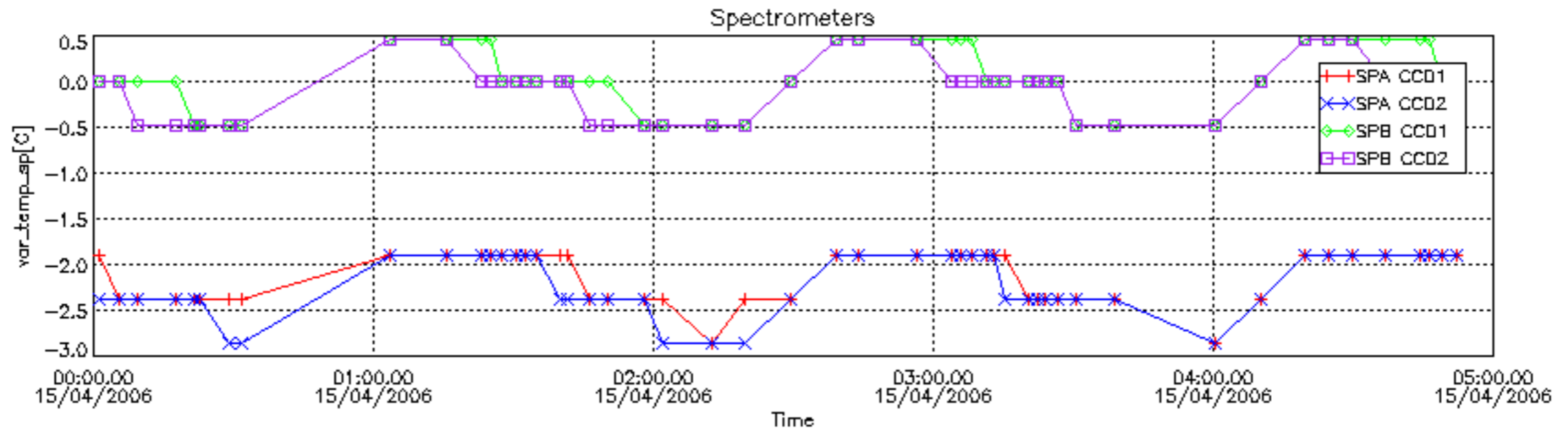
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1460.7	1446.8	1461.6	1446.4
St. deviation:	6.0269	10.955	8.5352	11.627
Maximum:	1662.0	1518.0	1516.0	1520.0
Minimum:	1451.0	1413.0	1433.0	1420.0
Number of data:	14300.	14300.	20500.	20500.

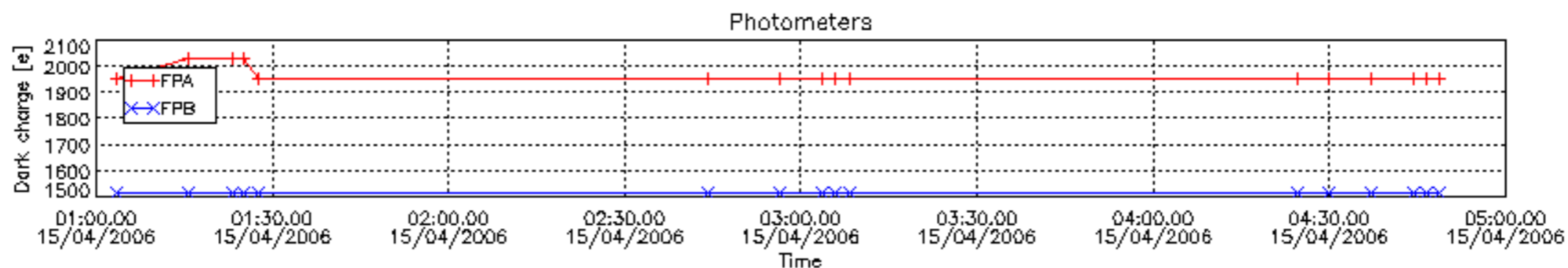
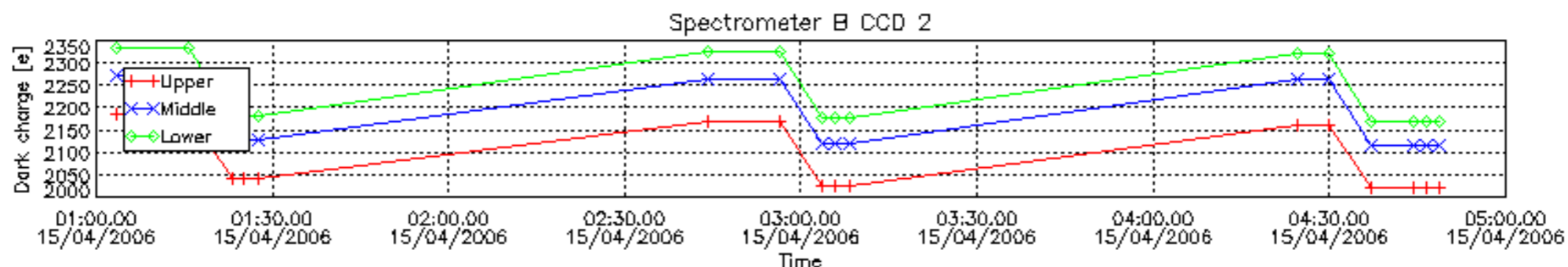
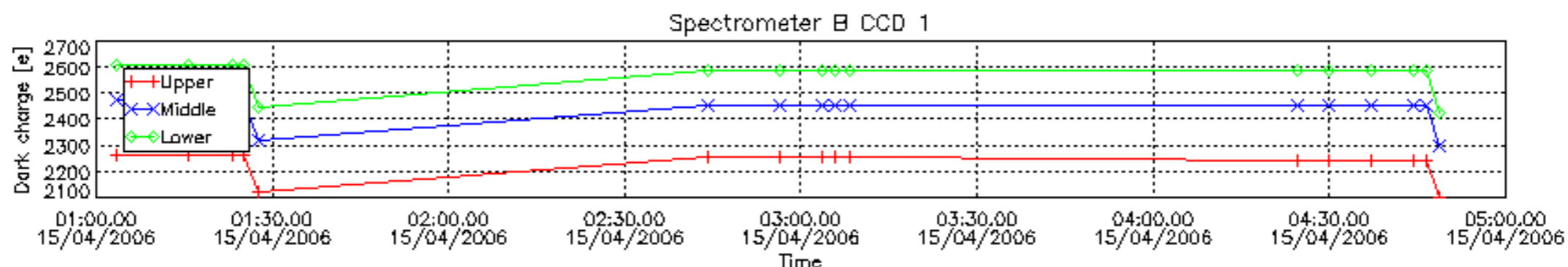
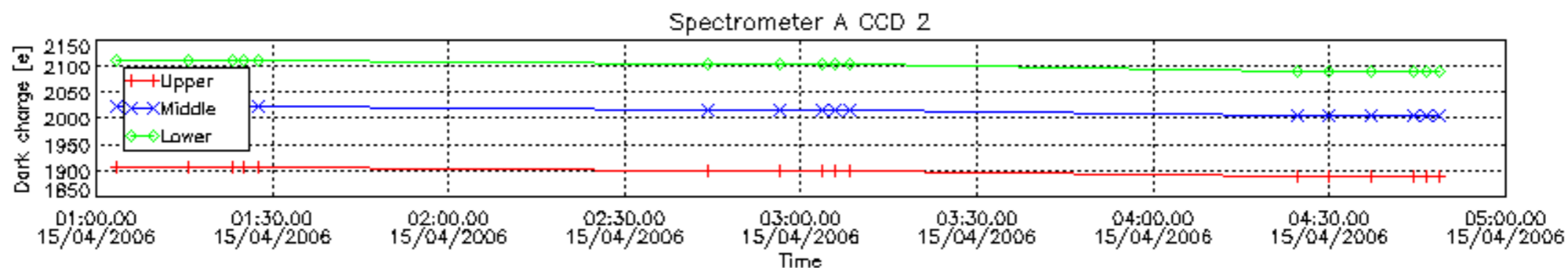
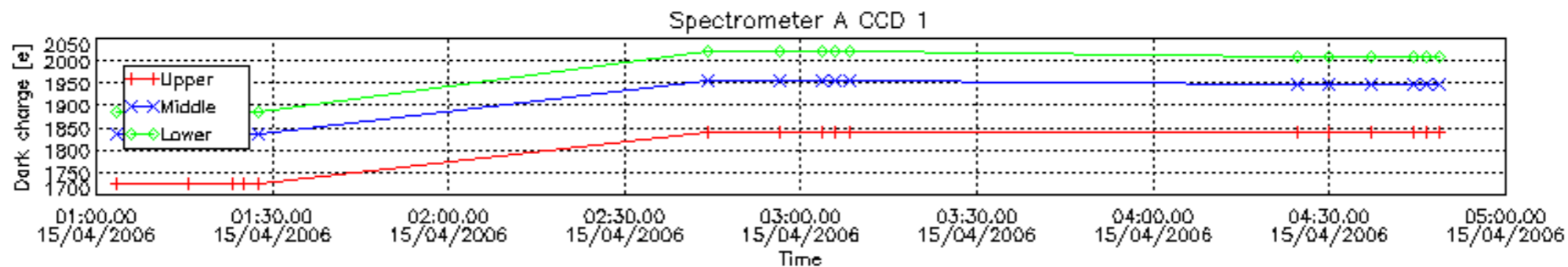
## 8. Auxiliary Data Files used for the production reported in section 2.2

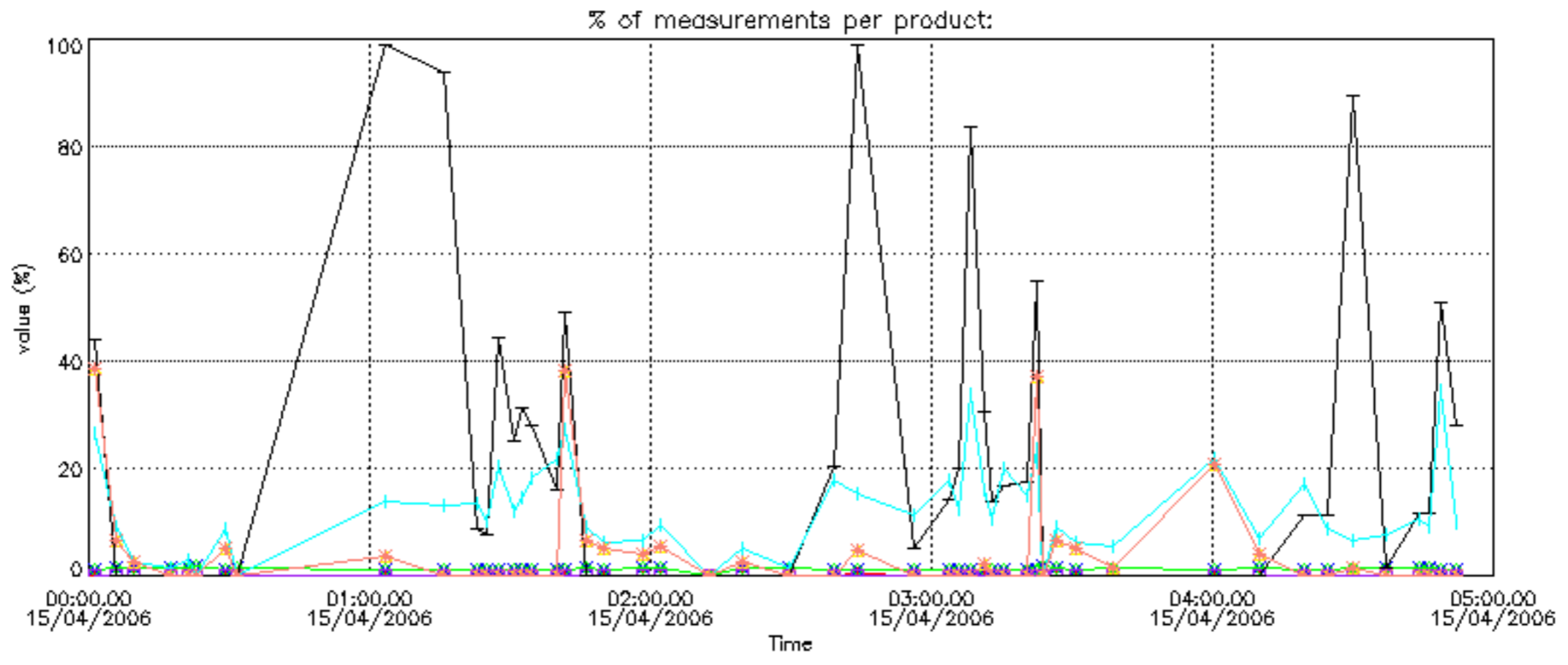
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	15-APR-2006 00:01:09
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060413_081550_20060411_000000_20100101_000000	1	15-APR-2006 00:01:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	15-APR-2006 00:01:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-APR-2006 00:01:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	15-APR-2006 00:01:09
ECMWF_FILE	AUX_ECF_AXNECM20060414_061822_20060414_210000_20060415_090000	1	15-APR-2006 00:01:09
ECMWF_FILE	AUX_ECA_AXNECM20060415_060809_20060414_210000_20060415_090000	23	15-APR-2006 02:12:21
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ECMWF_FILE	AUX_ECF_AXNECM20060414_181750_20060415_030000_20060415_150000	41	15-APR-2006 04:00:15
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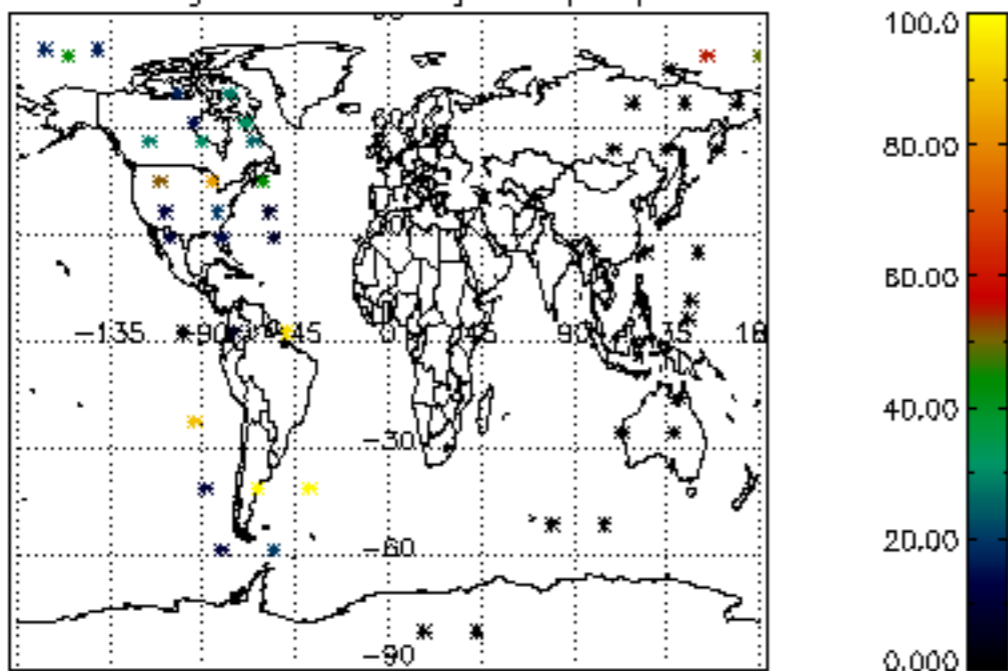




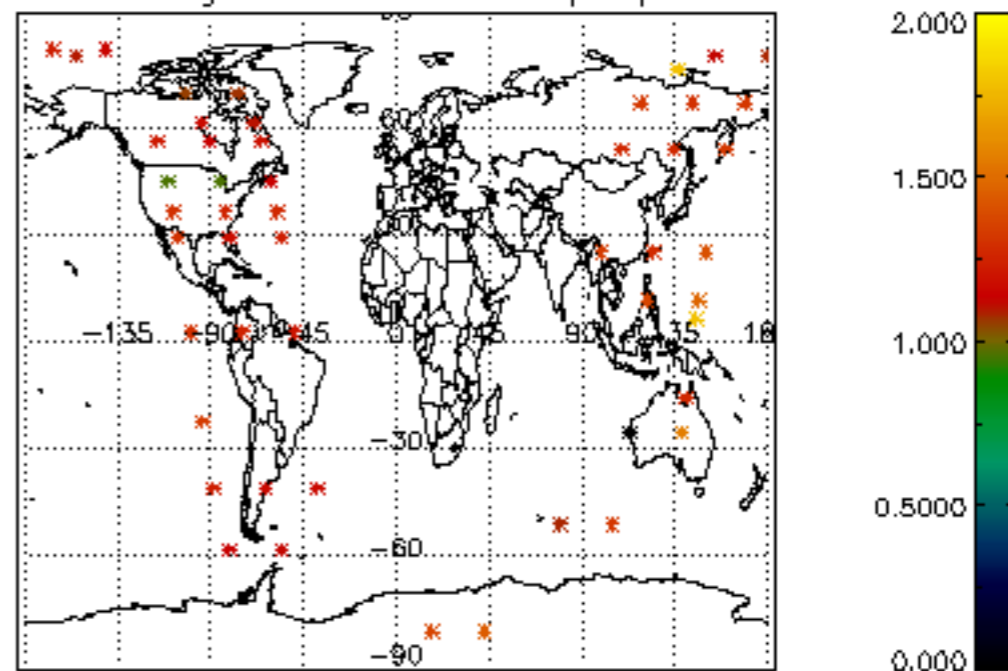




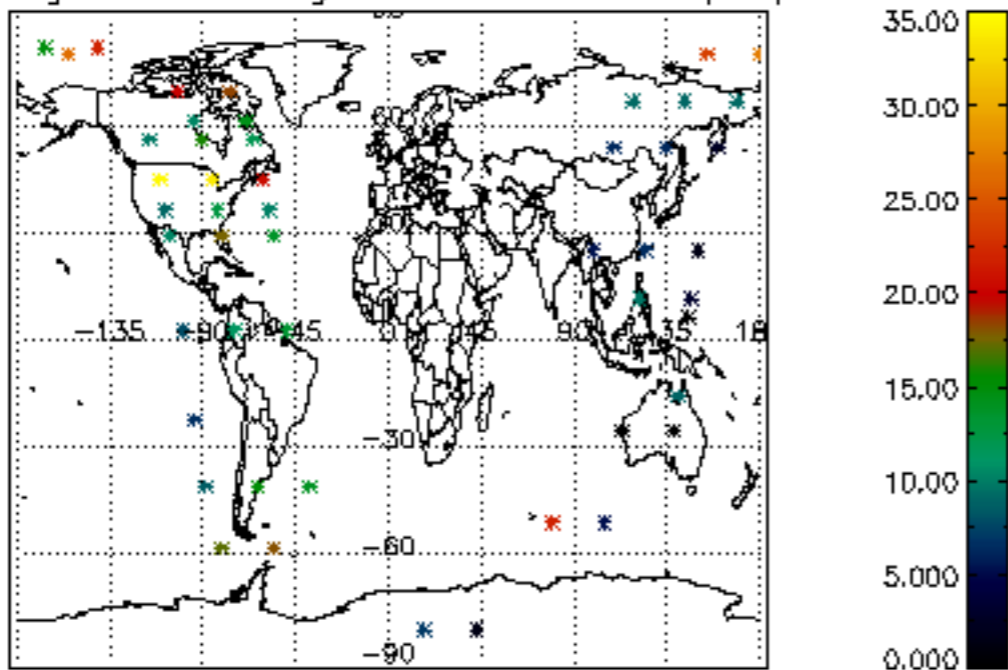
Percentage of cosmic ray hits per profile



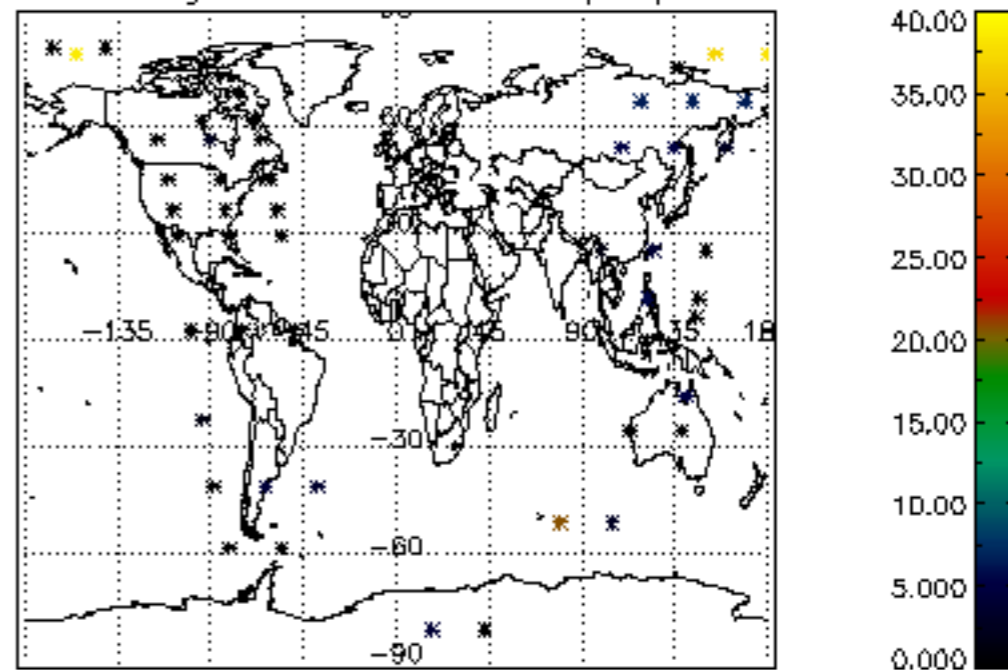
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

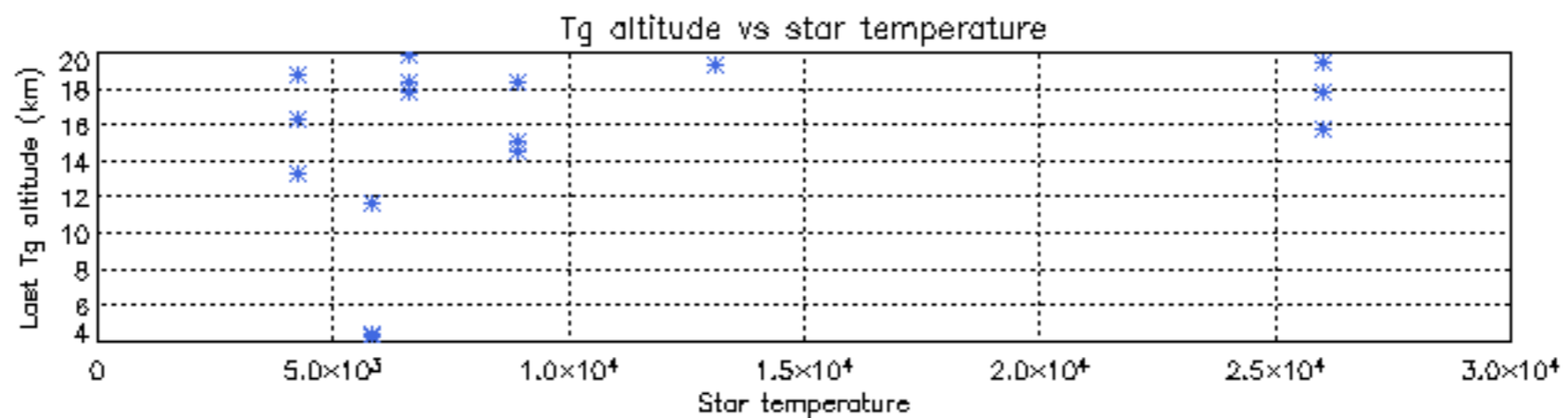
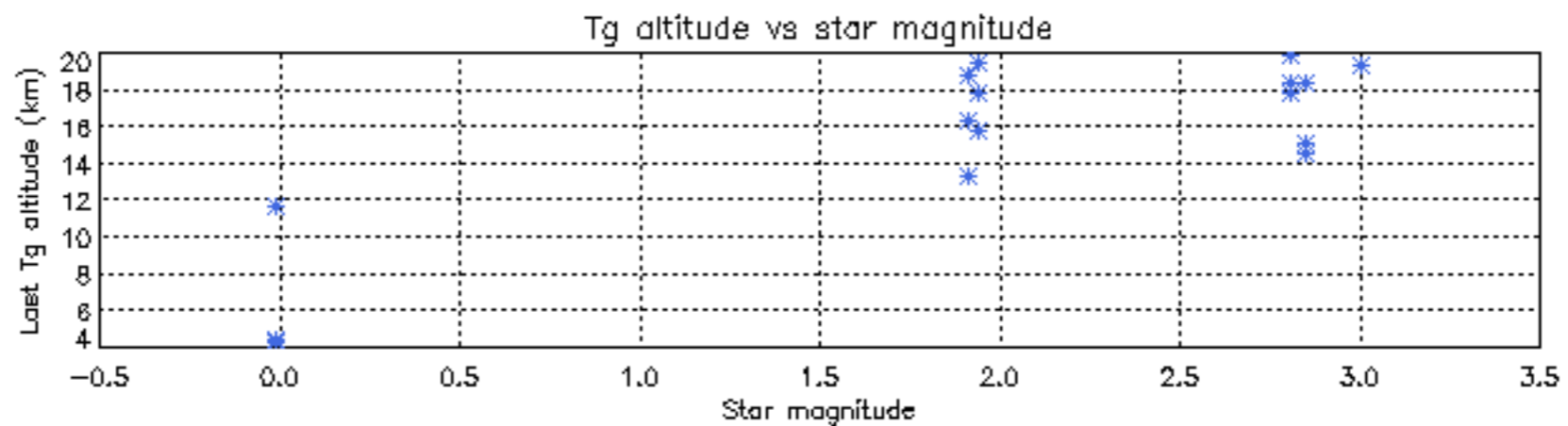
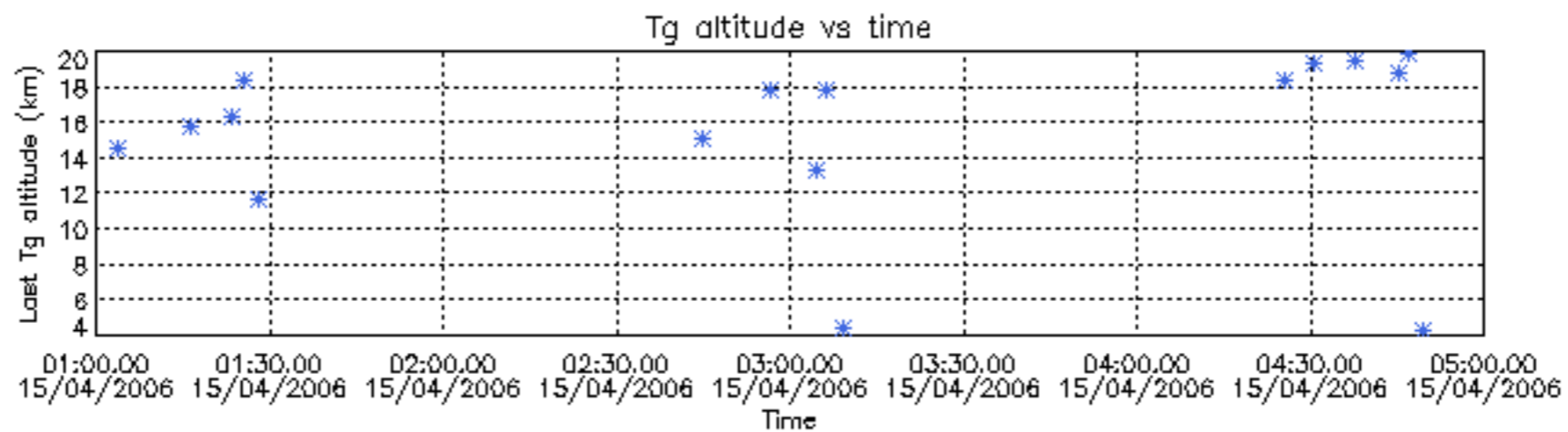


Percentage of saturation errors per profile

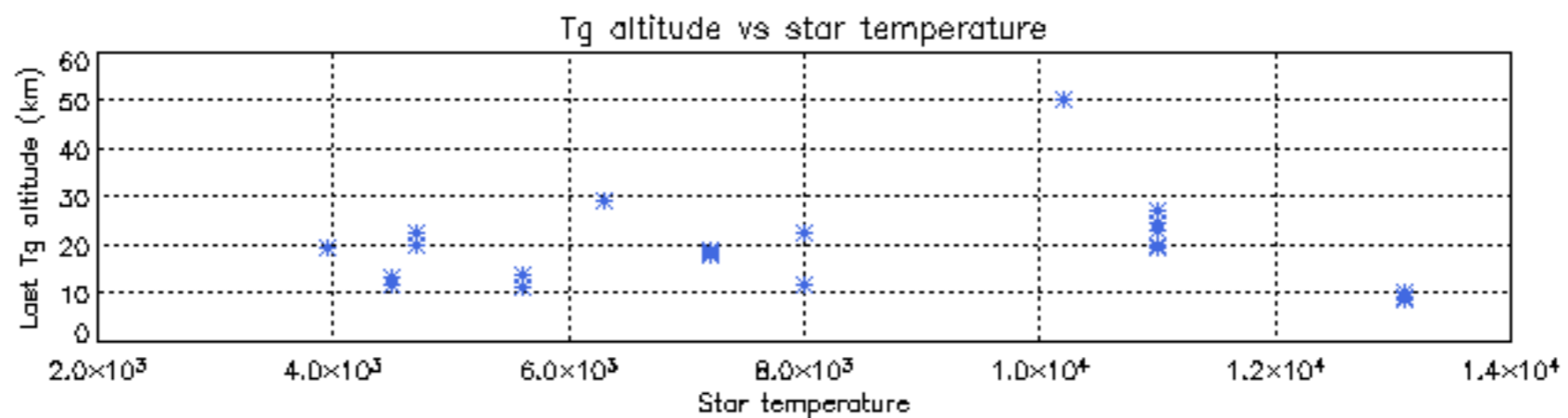
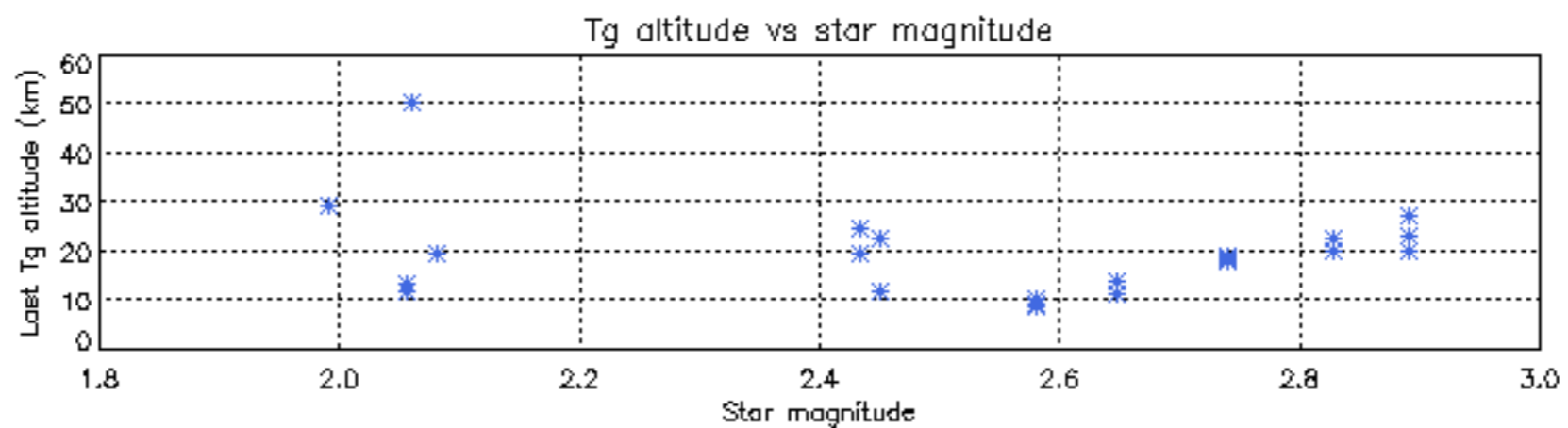
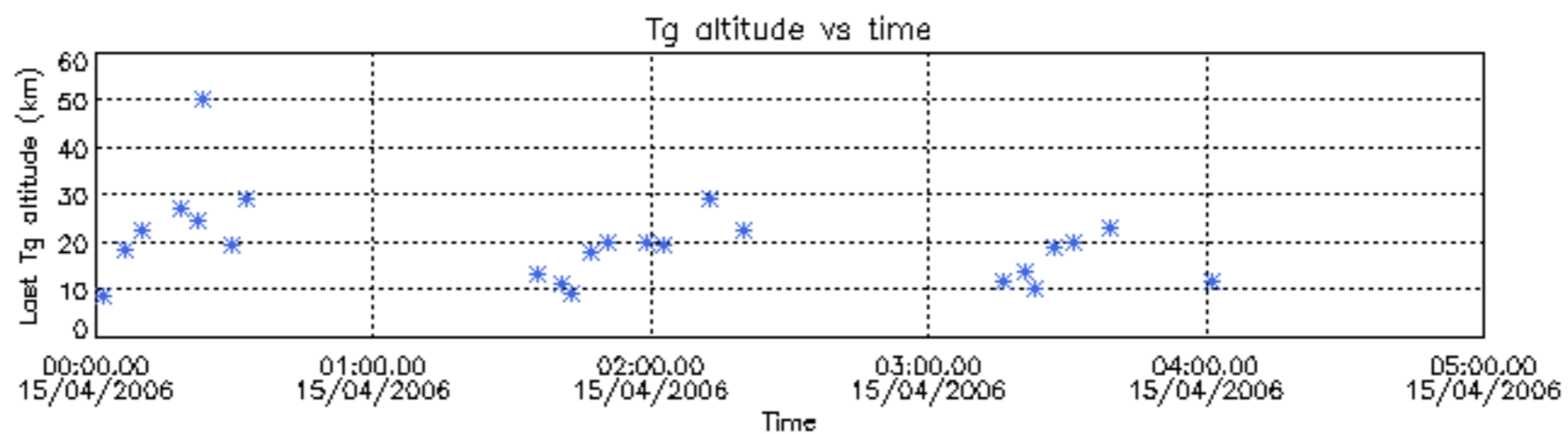




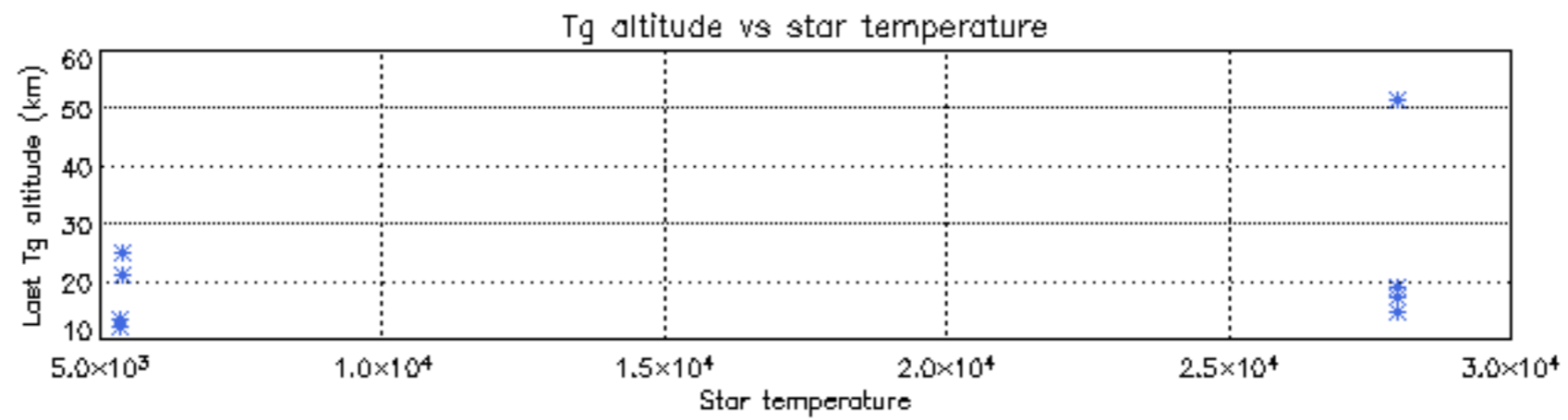
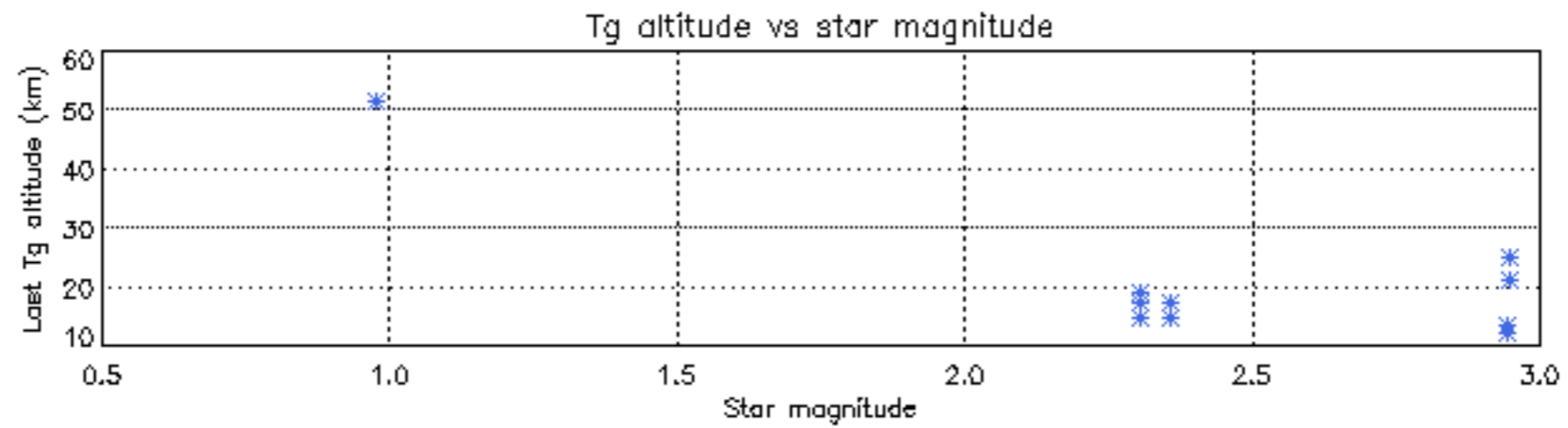
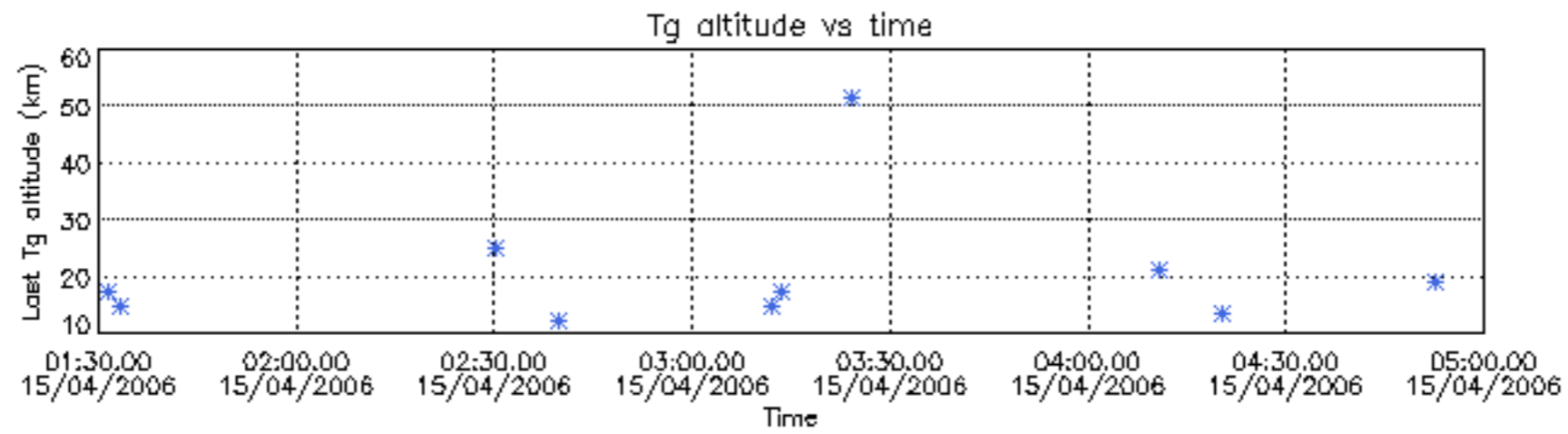
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 17; 3439.7; 01-APR-2006 01:11:52; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;21356  
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 8; 7050.1; 01-APR-2006 02:12:03; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;21356  
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 4;-4456.8; 01-APR-2006 17:26:51; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;21366  
 5;-3876.0; 01-APR-2006 17:36:32; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;21366  
 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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 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  
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7; 1126.8; 05-APR-2006 00:07:29; Dark ; 53.5; 54; 5The Cen ; 2.06; 4500;occ; 107; 0;21413
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9; 32.8; 13-APR-2006 07:20:32; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;21532  
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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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24;	1178.9;	13-APR-2006	12:41:26;	Dark	;	45.0;	54;	5The Cen	;	2.06;	4500;occ;	90;	0;	21535
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14;	-850.1;	13-APR-2006	13:48:13;	Dark	;	49.5;	154;	22Bet Aqr	;	2.90;	5700;occ;	99;	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
17;	-89.8;	13-APR-2006	14:00:53;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;	21535	
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12;	-1001.1;	13-APR-2006	15:26:18;	Dark	;	47.0;	162;	34Alp Aqr	;	2.94;	5350;occ;	94;	0;	21536
13;	-849.6;	13-APR-2006	15:28:49;	Dark	;	48.5;	154;	22Bet Aqr	;	2.90;	5700;occ;	97;	0;	21536
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15;	-383.4;	13-APR-2006	15:36:36;	Dark	;	38.0;	172;	Gam Gru	;	3.00;	13100;occ;	76;	0;	21536
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