

# GOMOS Daily Report 20-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	22APR2006 04:32:00

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (20APR2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (21APR2006 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)

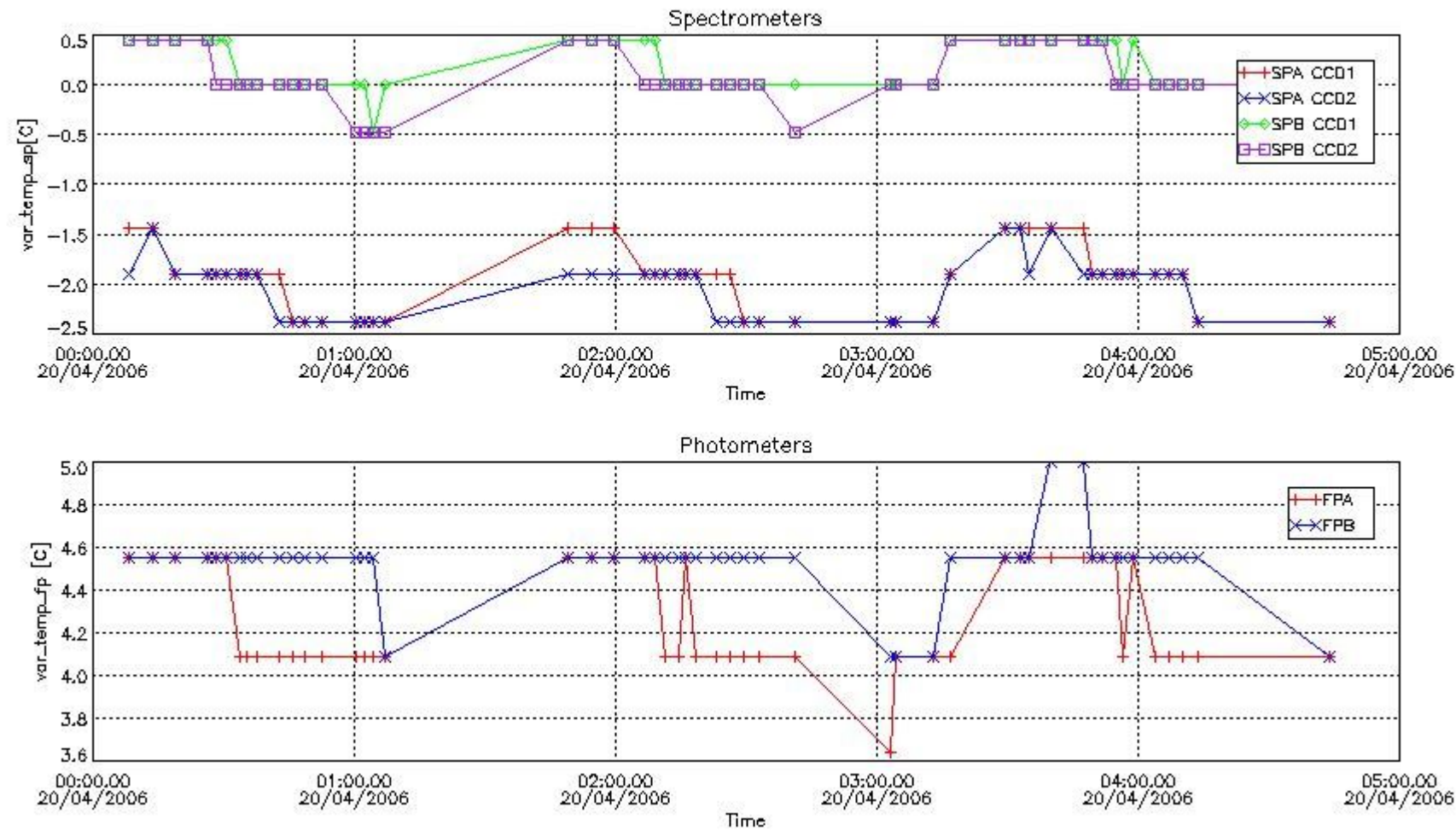
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060420_000813_000000392047_00030_21627_0000.N1	20-APR-2006 00:08:13	Dark	39.000	18	24Alp PsA	1.1660	9700.0	78	21627	No
2	GOM_TRA_1PNPDE20060420_001346_000000402047_00030_21627_0001.N1	20-APR-2006 00:13:46	Dark	40.000	31	Alp Gru	1.7340	15200.	80	21627	No
3	GOM_TRA_1PNPDE20060420_001854_000000412047_00031_21628_0002.N1	20-APR-2006 00:18:54	Dark	41.000	45	Alp Pav	1.9400	26000.	82	21628	No
4	GOM_TRA_1PNPDE20060420_002607_000000442047_00031_21628_0003.N1	20-APR-2006 00:26:07	Dark	44.000	43	Alp TrA	1.9100	4250.0	88	21628	No
5	GOM_TRA_1PNPDE20060420_002815_000000382047_00031_21628_0004.N1	20-APR-2006 00:28:15	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	21628	No
6	GOM_TRA_1PNPDE20060420_003034_000000532047_00031_21628_0005.N1	20-APR-2006 00:30:34	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	21628	No
7	GOM_TRA_1PNPDE20060420_003349_000000412047_00031_21628_0006.N1	20-APR-2006 00:33:49	Twilight	41.000	78	Alp Lup	2.3040	28000.	82	21628	No
8	GOM_TRA_1PNPDE20060420_003524_000000432047_00031_21628_0007.N1	20-APR-2006 00:35:24	Bright	43.000	81	Eta Cen	2.3560	28000.	86	21628	No
9	GOM_TRA_1PNPDE20060420_003741_000000442047_00031_21628_0008.N1	20-APR-2006 00:37:41	Bright	43.500	54	5The Cen	2.0550	4500.0	87	21628	No
10	GOM_TRA_1PNPDE20060420_004239_000000422047_00031_21628_0009.N1	20-APR-2006 00:42:39	Bright	41.500	106	9Bet Crv	2.6480	5600.0	83	21628	No
11	GOM_TRA_1PNPDE20060420_004547_000000402047_00031_21628_0010.N1	20-APR-2006 00:45:47	Bright	40.000	15	67Alp Vir	0.97600	28000.	80	21628	No
12	GOM_TRA_1PNPDE20060420_004848_000000362047_00031_21628_0011.N1	20-APR-2006 00:48:48	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	21628	No
13	GOM_TRA_1PNPDE20060420_005226_000000382047_00031_21628_0012.N1	20-APR-2006 00:52:26	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	21628	No
14	GOM_TRA_1PNPDE20060420_010026_000000372047_00031_21628_0013.N1	20-APR-2006 01:00:26	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	21628	No
15	GOM_TRA_1PNPDE20060420_010214_000000342047_00031_21628_0014.N1	20-APR-2006 01:02:14	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	21628	No
16	GOM_TRA_1PNPDE20060420_010430_000000362047_00031_21628_0015.N1	20-APR-2006 01:04:30	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	21628	No
17	GOM_TRA_1PNPDE20060420_010657_000000342047_00031_21628_0016.N1	20-APR-2006 01:06:57	Bright	33.500	36	50Alp UMa	1.8000	6300.0	67	21628	No
18	GOM_TRA_1PNPDE20060420_014850_000000442047_00031_21628_0000.N1	20-APR-2006 01:48:50	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	21628	No
19	GOM_TRA_1PNPDE20060420_015423_000000402047_00031_21628_0001.N1	20-APR-2006 01:54:23	Dark	40.000	31	Alp Gru	1.7340	15200.	80	21628	No
20	GOM_TRA_1PNPDE20060420_015931_000000412047_00032_21629_0002.N1	20-APR-2006 01:59:31	Dark	41.000	45	Alp Pav	1.9400	26000.	82	21629	No
21	GOM_TRA_1PNPDE20060420_020643_000000422047_00032_21629_0003.N1	20-APR-2006 02:06:43	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	21629	No
22	GOM_TRA_1PNPDE20060420_020852_000000402047_00032_21629_0004.N1	20-APR-2006 02:08:52	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	21629	No
23	GOM_TRA_1PNPDE20060420_021110_000000452047_00032_21629_0005.N1	20-APR-2006 02:11:10	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	21629	No
24	GOM_TRA_1PNPDE20060420_021425_000000422047_00032_21629_0006.N1	20-APR-2006 02:14:25	Twilight	41.500	78	Alp Lup	2.3040	28000.	83	21629	No
25	GOM_TRA_1PNPDE20060420_021601_000000442047_00032_21629_0007.N1	20-APR-2006 02:16:01	Bright	43.500	81	Eta Cen	2.3560	28000.	87	21629	No
26	GOM_TRA_1PNPDE20060420_021817_000000452047_00032_21629_0008.N1	20-APR-2006 02:18:17	Bright	45.000	54	5The Cen	2.0550	4500.0	90	21629	No
27	GOM_TRA_1PNPDE20060420_022315_000000422047_00032_21629_0009.N1	20-APR-2006 02:23:15	Bright	42.000	106	9Bet Crv	2.6480	5600.0	84	21629	No
28	GOM_TRA_1PNPDE20060420_022623_000000402047_00032_21629_0010.N1	20-APR-2006 02:26:23	Bright	40.000	15	67Alp Vir	0.97600	28000.	80	21629	No
29	GOM_TRA_1PNPDE20060420_022925_000000372047_00032_21629_0011.N1	20-APR-2006 02:29:25	Bright	37.000	121	29Gam Vir	2.7400	7200.0	74	21629	No
30	GOM_TRA_1PNPDE20060420_023302_000000382047_00032_21629_0012.N1	20-APR-2006 02:33:02	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	21629	No
31	GOM_TRA_1PNPDE20060420_024101_000000362047_00032_21629_0013.N1	20-APR-2006 02:41:01	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	21629	No
32	GOM_TRA_1PNPDE20060420_030307_000000352047_00032_21629_0000.N1	20-APR-2006 03:03:07	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	21629	No
33	GOM_TRA_1PNPDE20060420_030425_000000362047_00032_21629_0001.N1	20-APR-2006 03:04:25	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	21629	No
34	GOM_TRA_1PNPDE20060420_031250_000000372047_00032_21629_0002.N1	20-APR-2006 03:12:50	Twilight	37.000	164	44Eta Peg	2.9480	5400.0	74	21629	No
35	GOM_TRA_1PNPDE20060420_031657_000000412047_00032_21629_0003.N1	20-APR-2006 03:16:57	Twilight	40.500	90	54Alp Peg	2.4870	11000.	81	21629	No
36	GOM_TRA_1PNPDE20060420_032926_000000442047_00032_21629_0004.N1	20-APR-2006 03:29:26	Dark	44.000	18	24Alp PsA	1.1660	9700.0	88	21629	No
37	GOM_TRA_1PNPDE20060420_033303_000000392047_00032_21629_0005.N1	20-APR-2006 03:33:03	Dark	38.500	172	Gam Gru	3.0030	13100.	77	21629	No
38	GOM_TRA_1PNPDE20060420_033459_000000412047_00032_21629_0006.N1	20-APR-2006 03:34:59	Dark	40.500	31	Alp Gru	1.7340	15200.	81	21629	No
39	GOM_TRA_1PNPDE20060420_034007_000000412047_00033_21630_0007.N1	20-APR-2006 03:40:07	Dark	40.500	45	Alp Pav	1.9400	26000.	81	21630	No
40	GOM_TRA_1PNPDE20060420_034720_000000402047_00033_21630_0008.N1	20-APR-2006 03:47:20	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	21630	No
41	GOM_TRA_1PNPDE20060420_034928_000000382047_00033_21630_0009.N1	20-APR-2006 03:49:28	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	21630	No
42	GOM_TRA_1PNPDE20060420_035147_000000532047_00033_21630_0010.N1	20-APR-2006 03:51:47	Dark	52.500	4	Alp1Cen	-0.010000	5800.0	105	21630	No
43	GOM_TRA_1PNPDE20060420_035502_000000402047_00033_21630_0011.N1	20-APR-2006 03:55:02	Twilight	39.500	78	Alp Lup	2.3040	28000.	79	21630	No
44	GOM_TRA_1PNPDE20060420_035637_000000432047_00033_21630_0012.N1	20-APR-2006 03:56:37	Bright	42.500	81	Eta Cen	2.3560	28000.	85	21630	No
45	GOM_TRA_1PNPDE20060420_035854_000000422047_00033_21630_0013.N1	20-APR-2006 03:58:54	Bright	41.500	54	5The Cen	2.0550	4500.0	83	21630	No
46	GOM_TRA_1PNPDE20060420_040352_000000372047_00033_21630_0014.N1	20-APR-2006 04:03:52	Bright	37.000	106	9Bet Crv	2.6480	5600.0	74	21630	No

47	GOM_TRA_1PNPDE20060420_040659_000000422047_00033_21630_0015.N1	20-APR-2006 04:06:59	Bright	42.000	15	67Alp Vir	0.97600	28000.	84	21630	No
48	GOM_TRA_1PNPDE20060420_041001_000000372047_00033_21630_0016.N1	20-APR-2006 04:10:01	Bright	37.000	121	29Gam Vir	2.7400	7200.0	74	21630	No
49	GOM_TRA_1PNPDE20060420_041338_000000382047_00033_21630_0017.N1	20-APR-2006 04:13:38	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	21630	No
50	GOM_TRA_1PNPDE20060420_044344_000000342047_00033_21630_0000.N1	20-APR-2006 04:43:44	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	21630	No

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



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

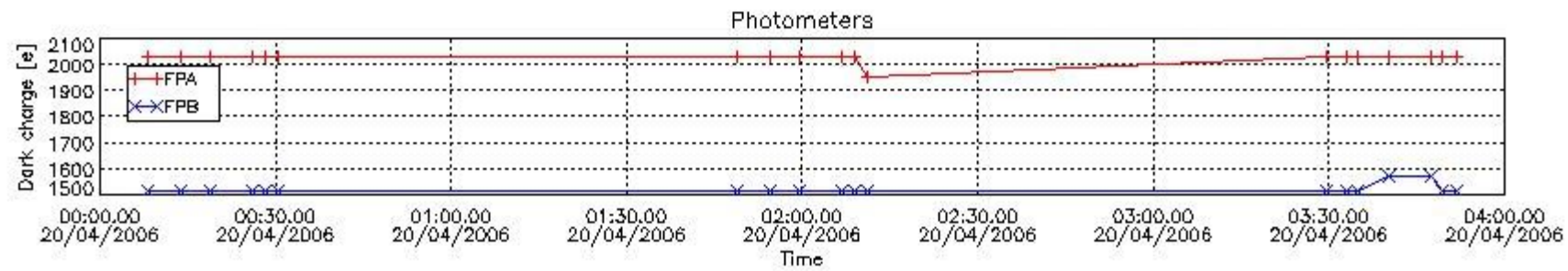
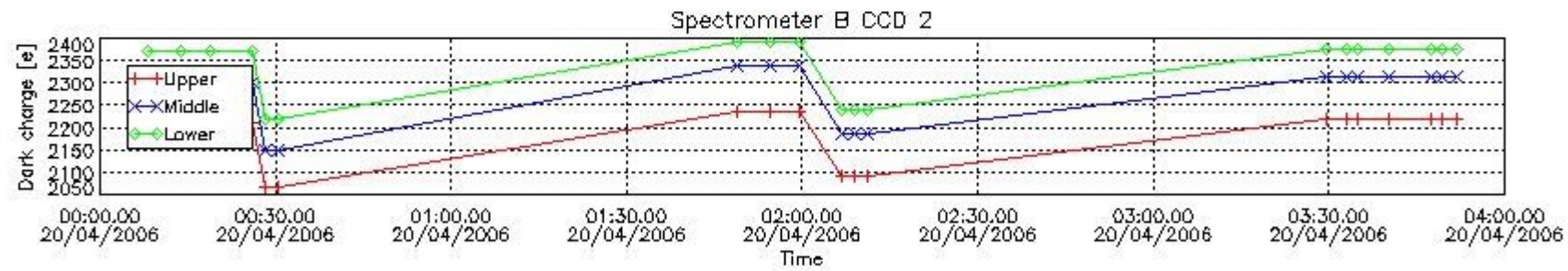
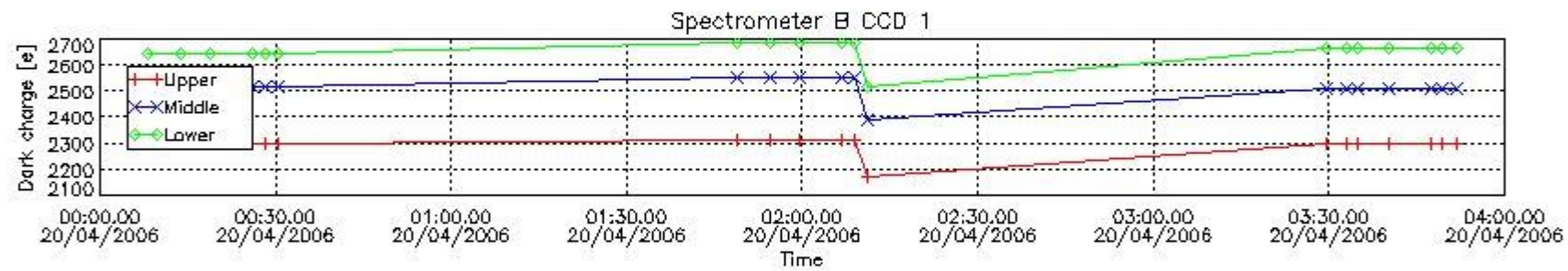
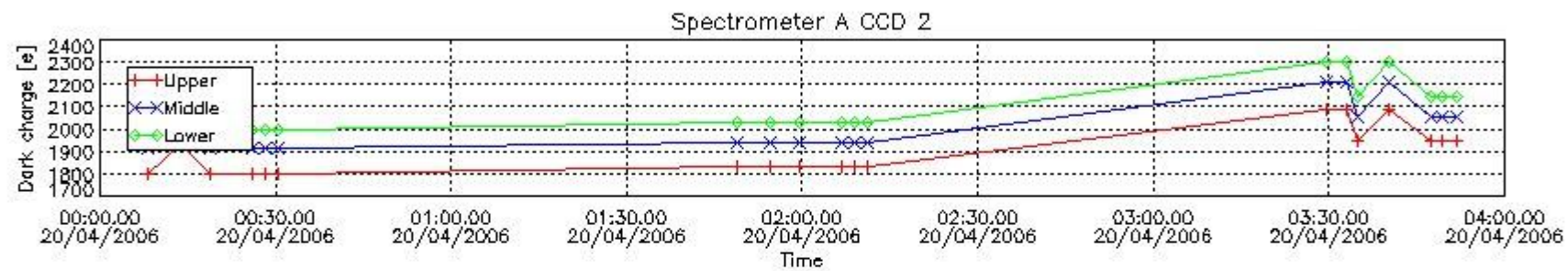
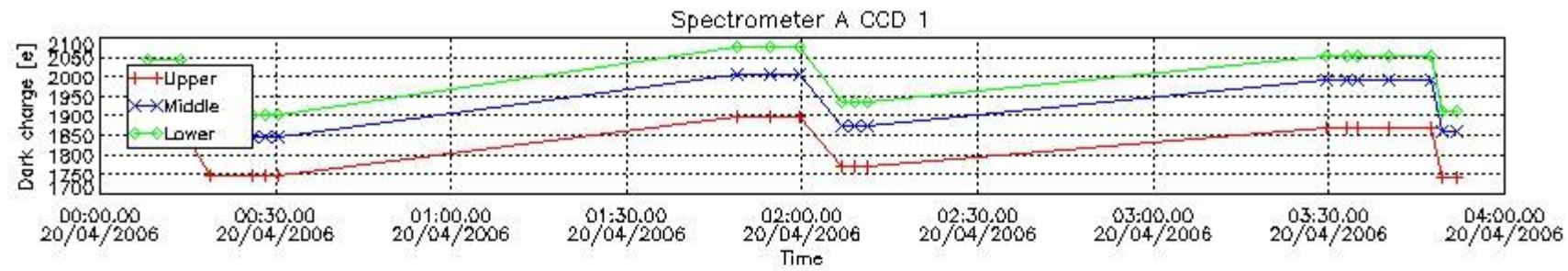
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





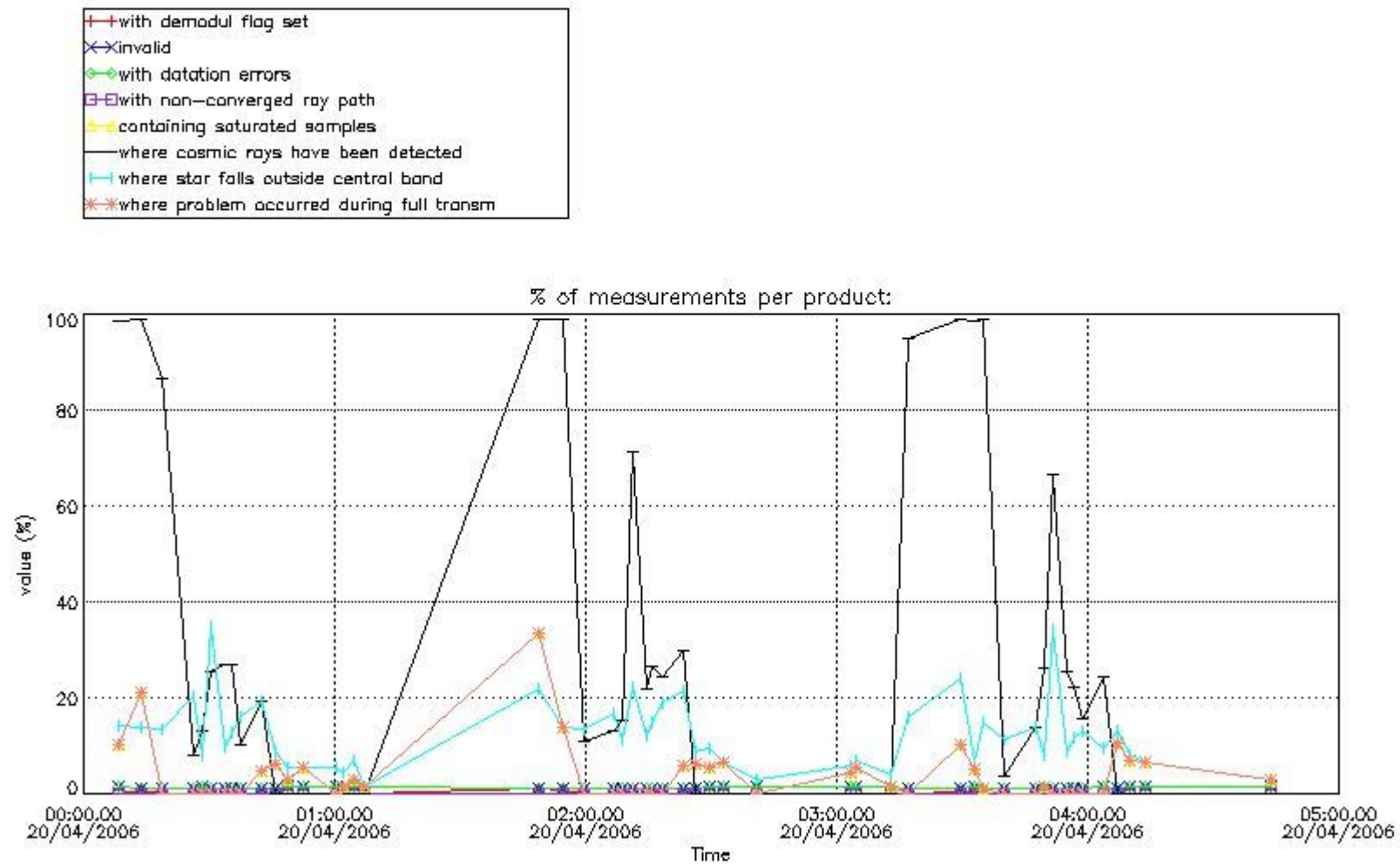
## 5. Demodulation flag and quality information monitoring

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:

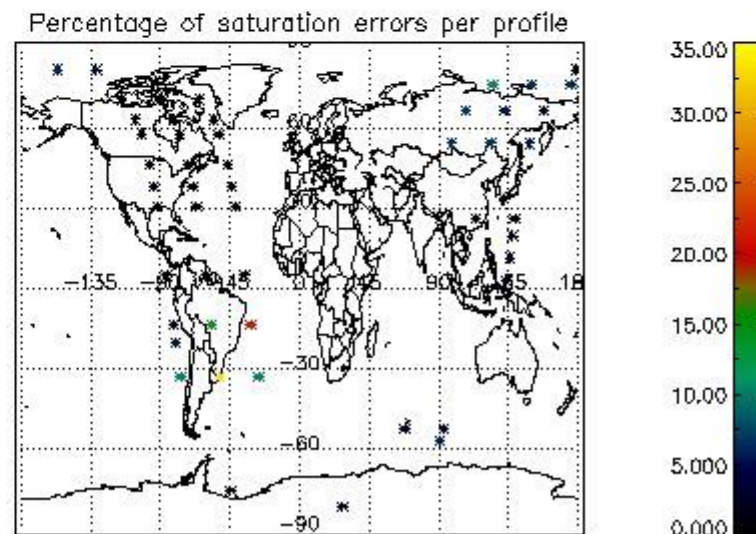
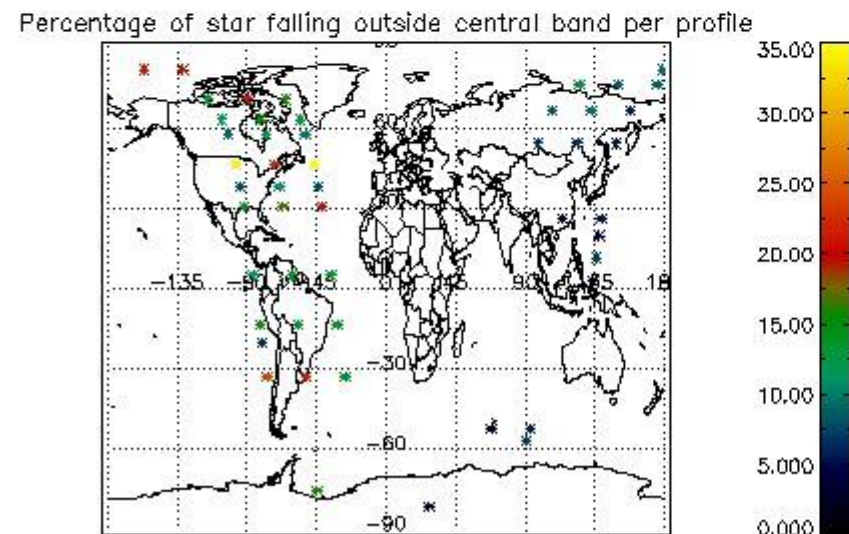
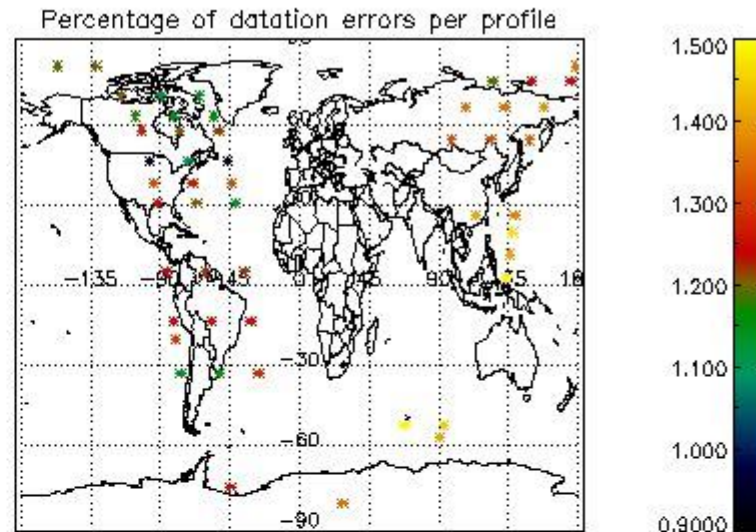
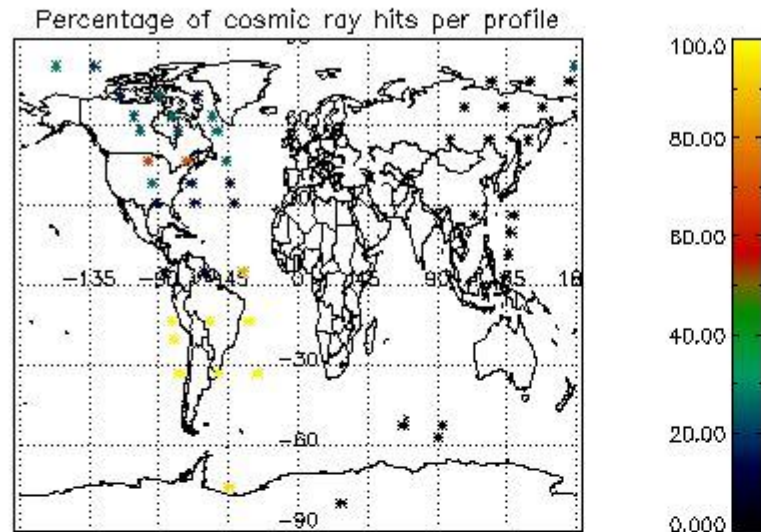
At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





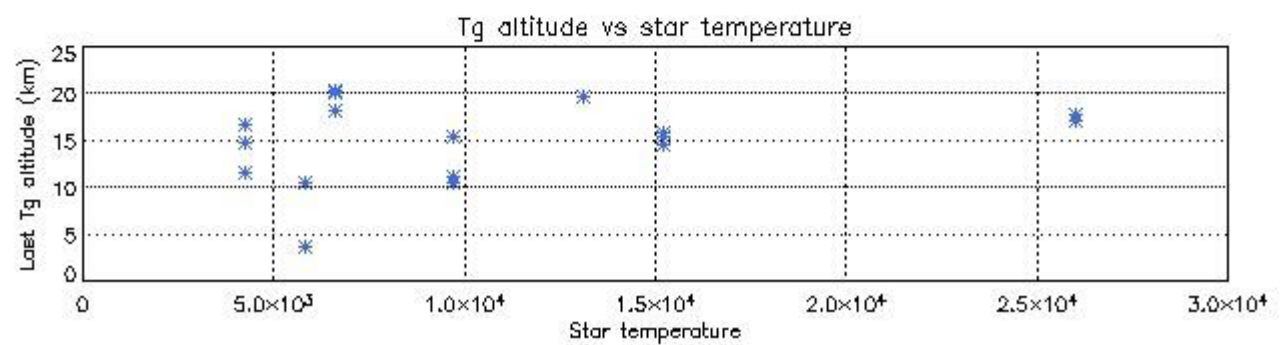
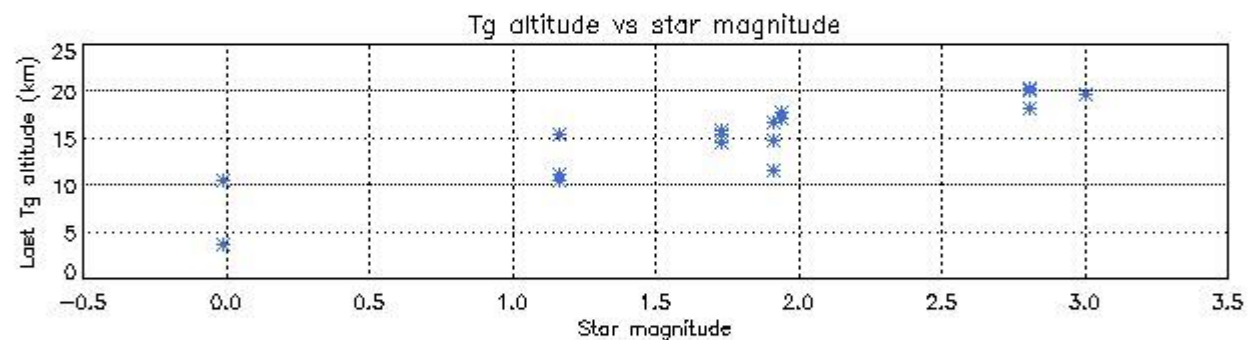
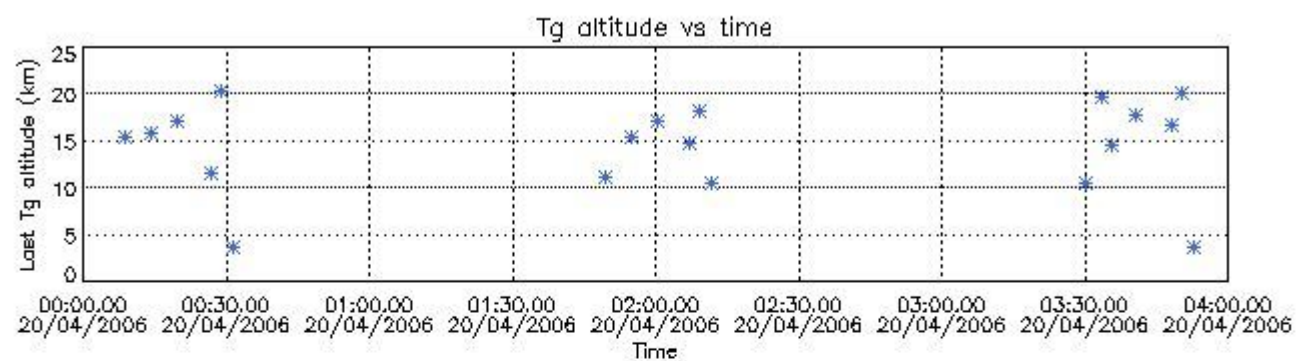
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.405	18.840	18.014
St. deviation:	4.8556	3.9612	3.0404
Maximum:	20.281	25.154	21.933
Minimum:	3.6156	11.929	13.887
Number of data:	19.000	26.000	5.0000

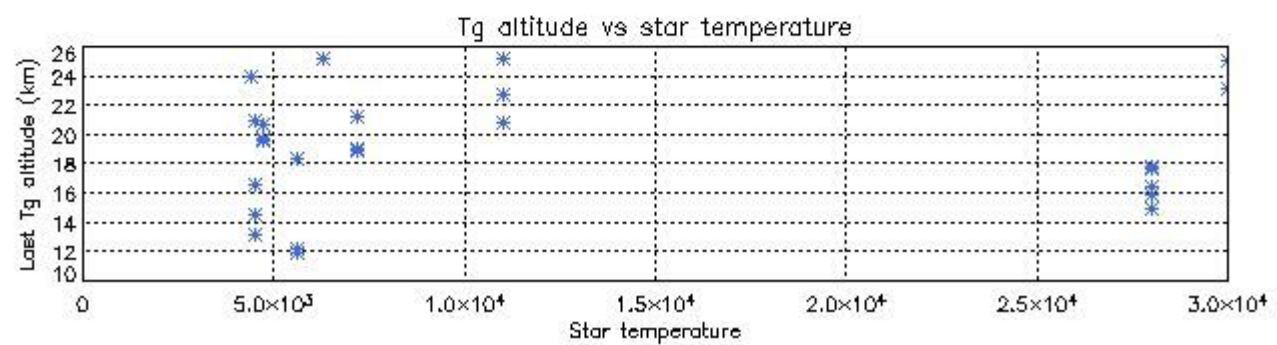
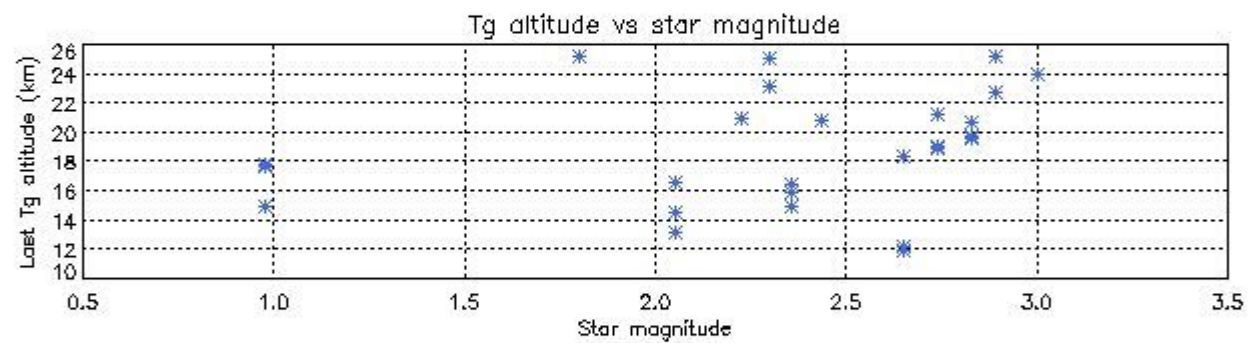
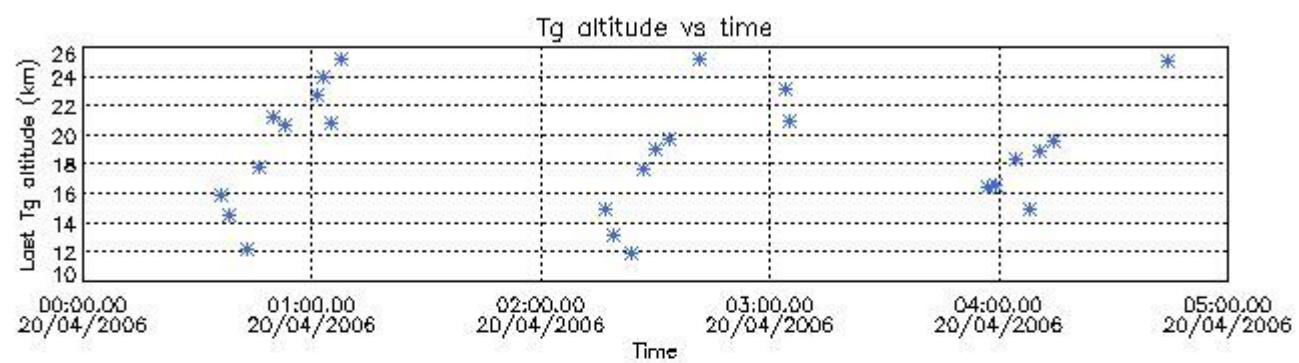
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

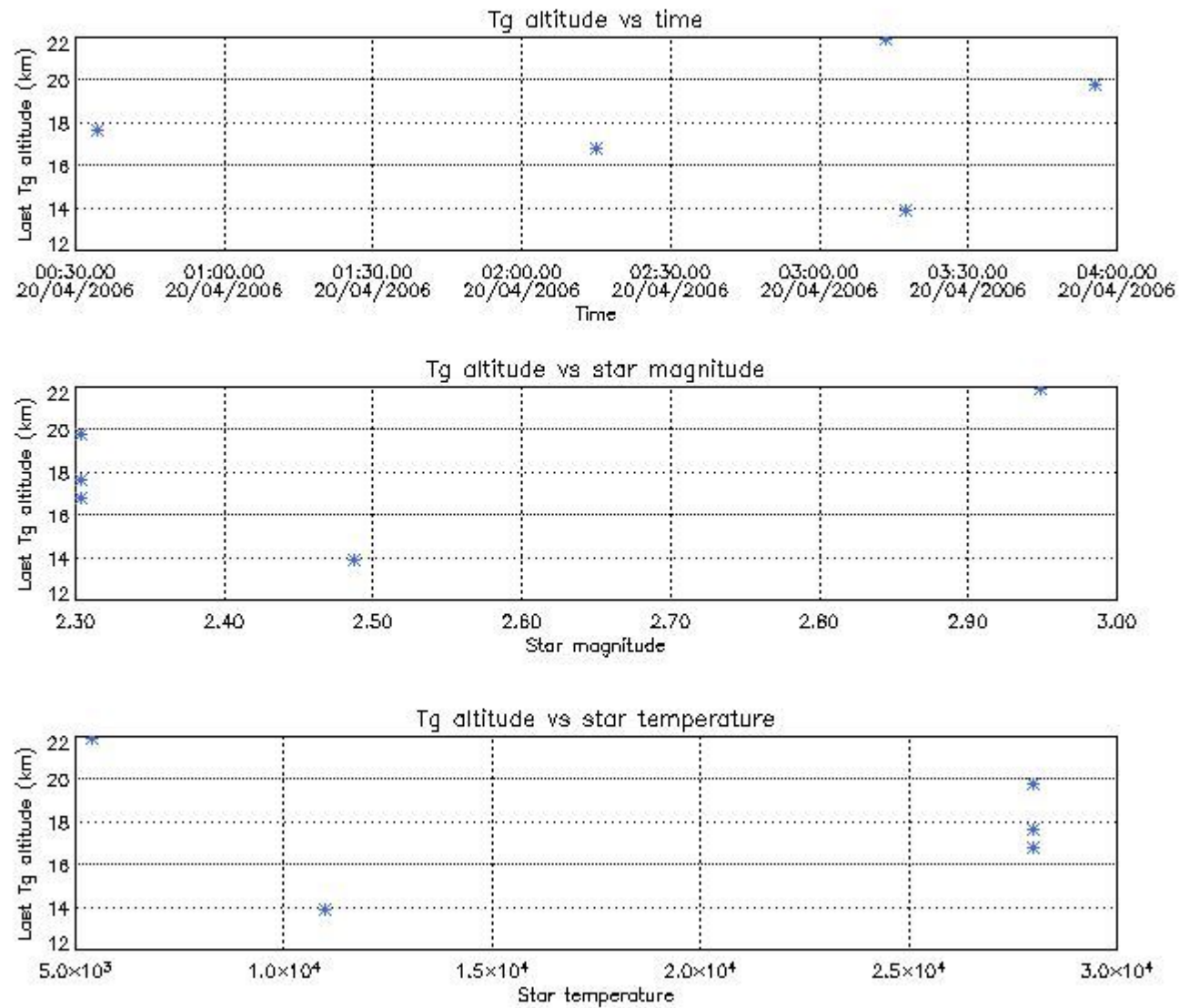
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



## Tangent altitude at which the star is lost



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

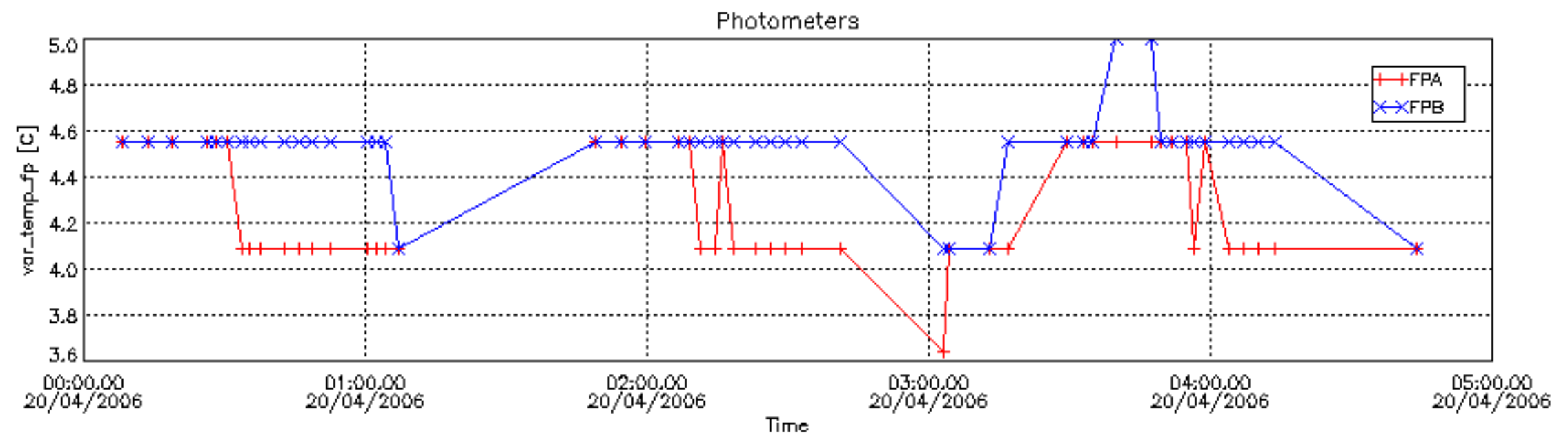
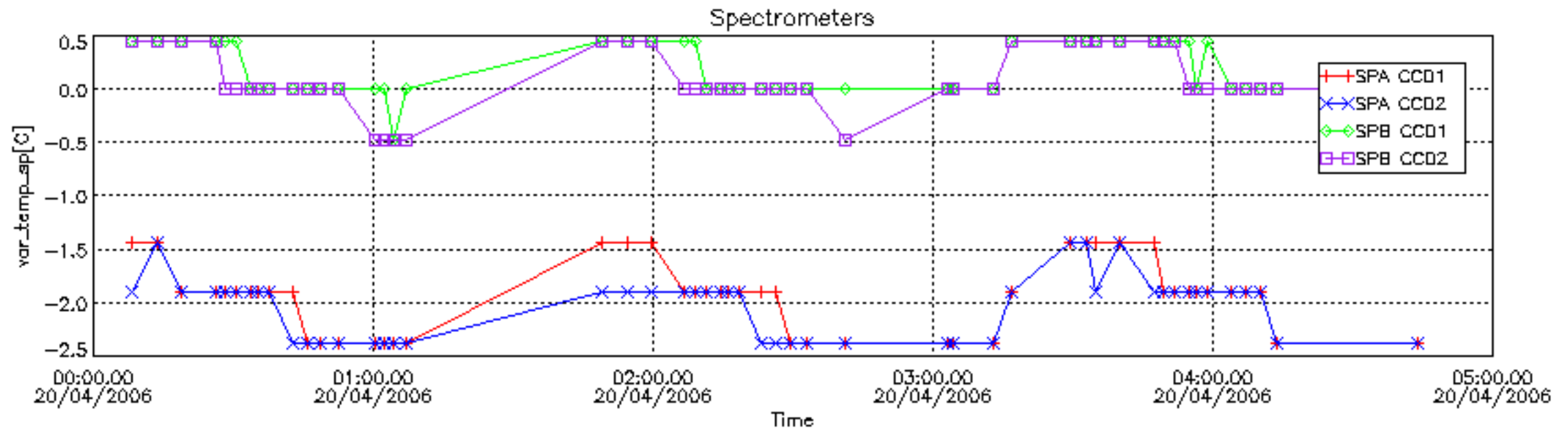
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.4	1446.6	1461.4	1446.2
St. deviation:	5.1418	12.908	7.4209	13.524
Maximum:	1646.0	1518.0	1526.0	1518.0
Minimum:	1450.0	1415.0	1423.0	1417.0
Number of data:	16650.	16650.	22150.	22150.

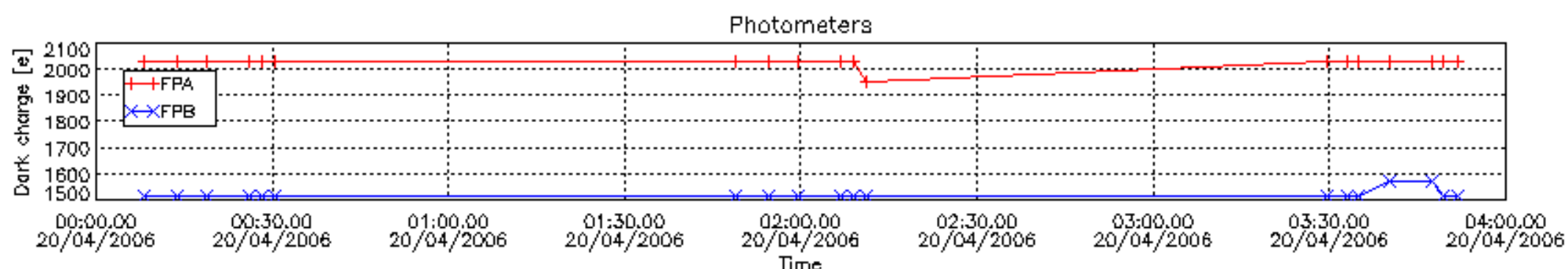
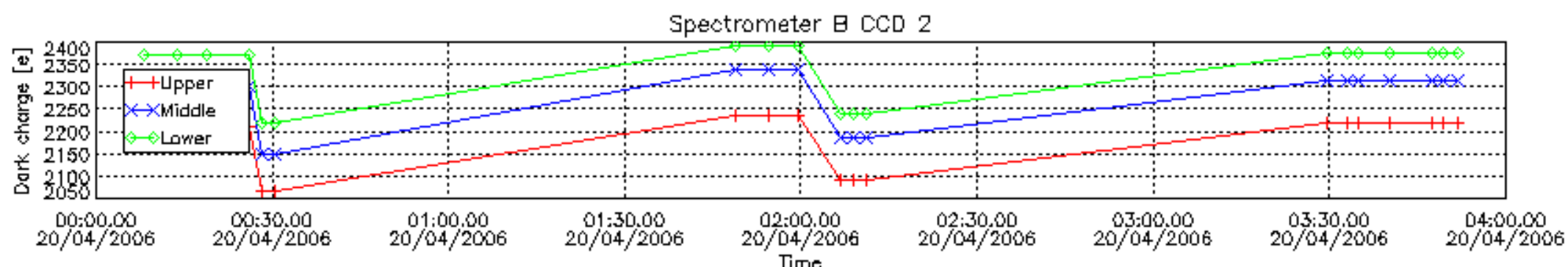
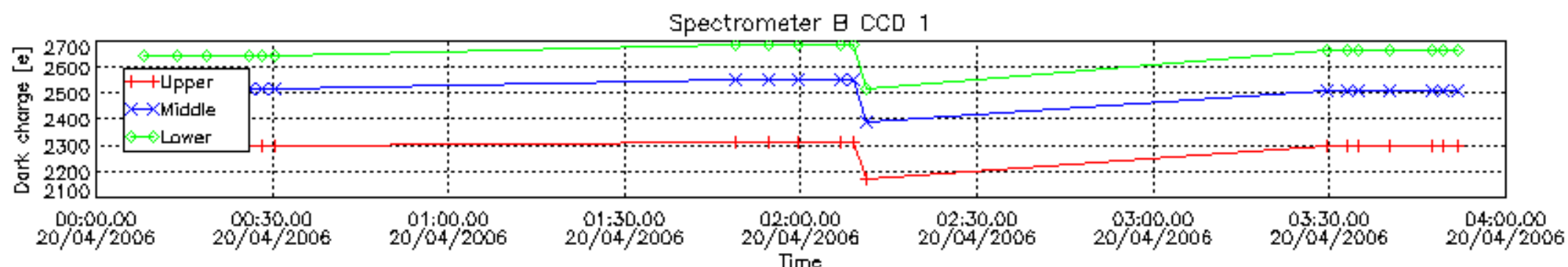
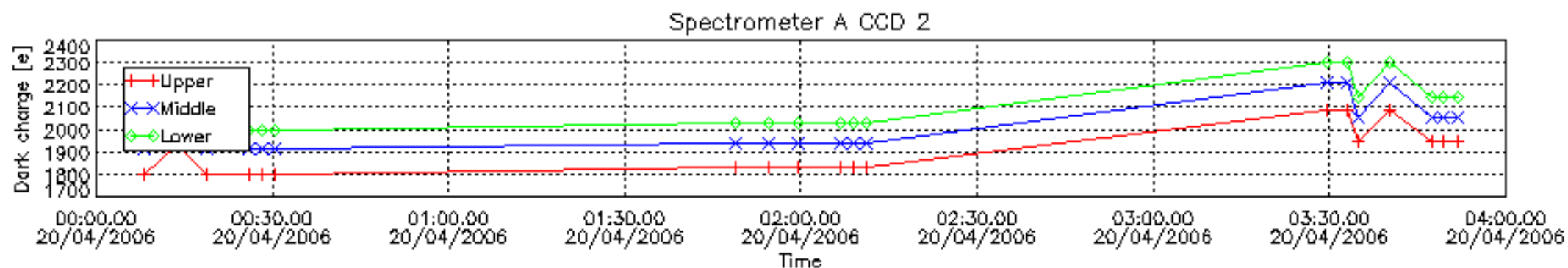
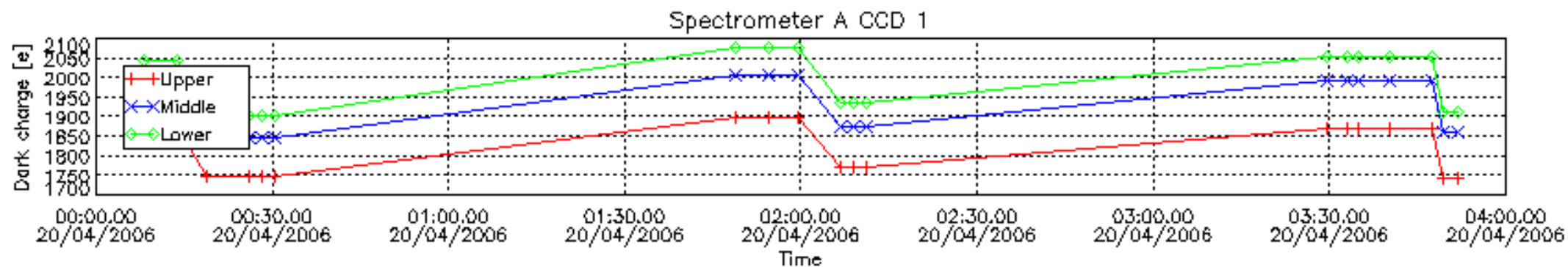
## 8. Auxiliary Data Files used for the production reported in section 2.2

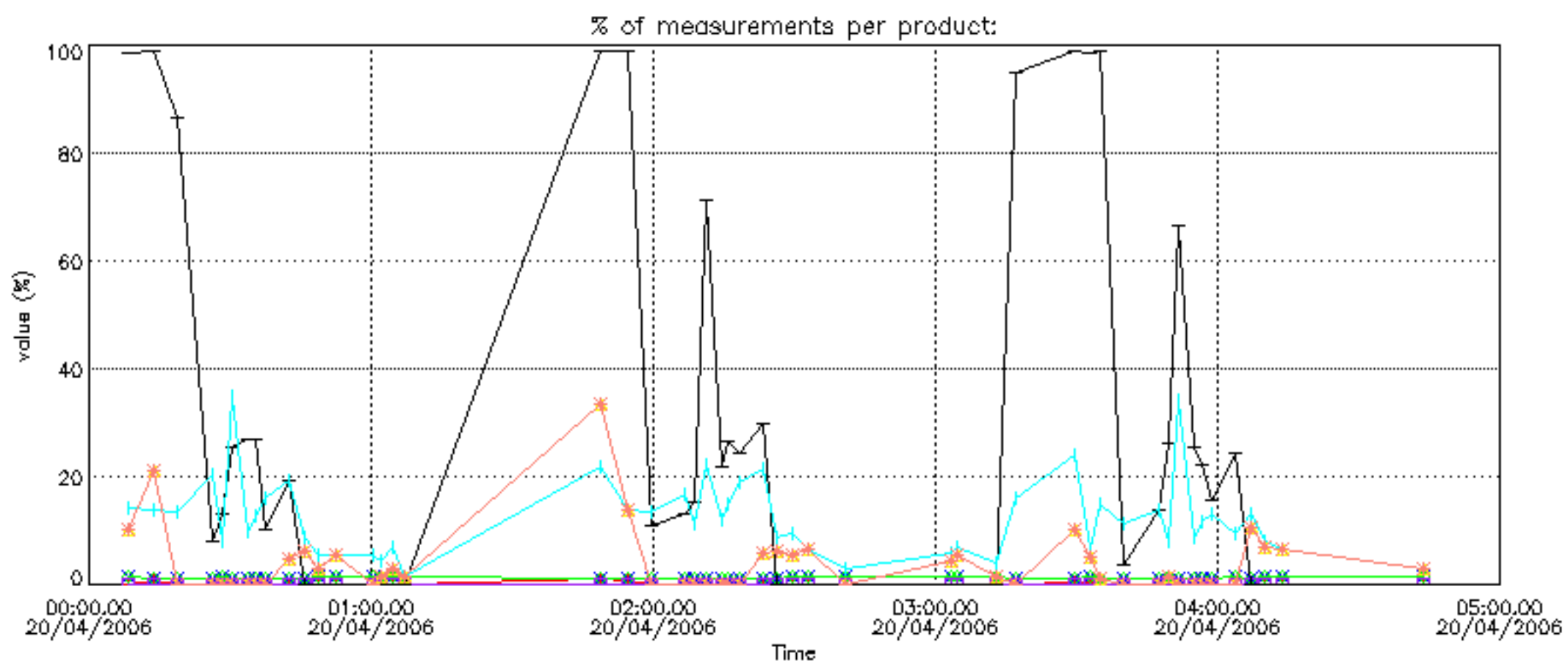
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	20-APR-2006 00:08:13
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060413_081550_20060411_000000_20100101_000000	1	20-APR-2006 00:08:13
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	20-APR-2006 00:08:13
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-APR-2006 00:08:13
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	20-APR-2006 00:08:13
ECMWF_FILE	AUX_ECF_AXNECM20060419_062529_20060419_210000_20060420_090000	1	20-APR-2006 00:08:13
ECMWF_FILE	AUX_ECA_AXNECM20060420_060554_20060419_210000_20060420_090000	50	20-APR-2006 04:43:44
OPTIONAL_ECMWF_FILE	NOT USED	1	20-APR-2006 00:08:13
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060420_002529_20060419_191542_20060429_204158	1	20-APR-2006 00:08:13

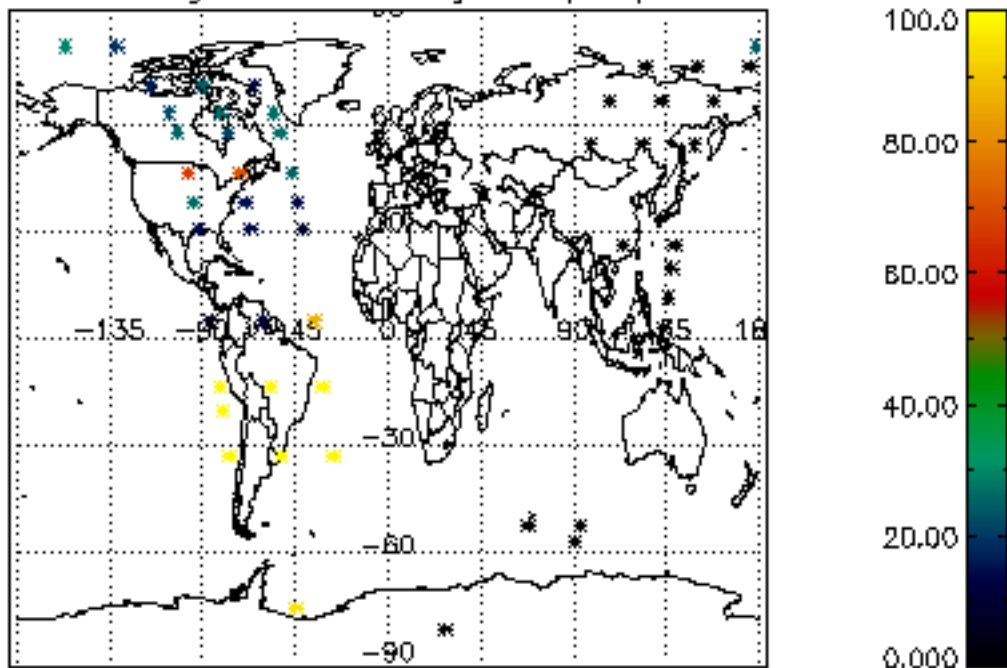




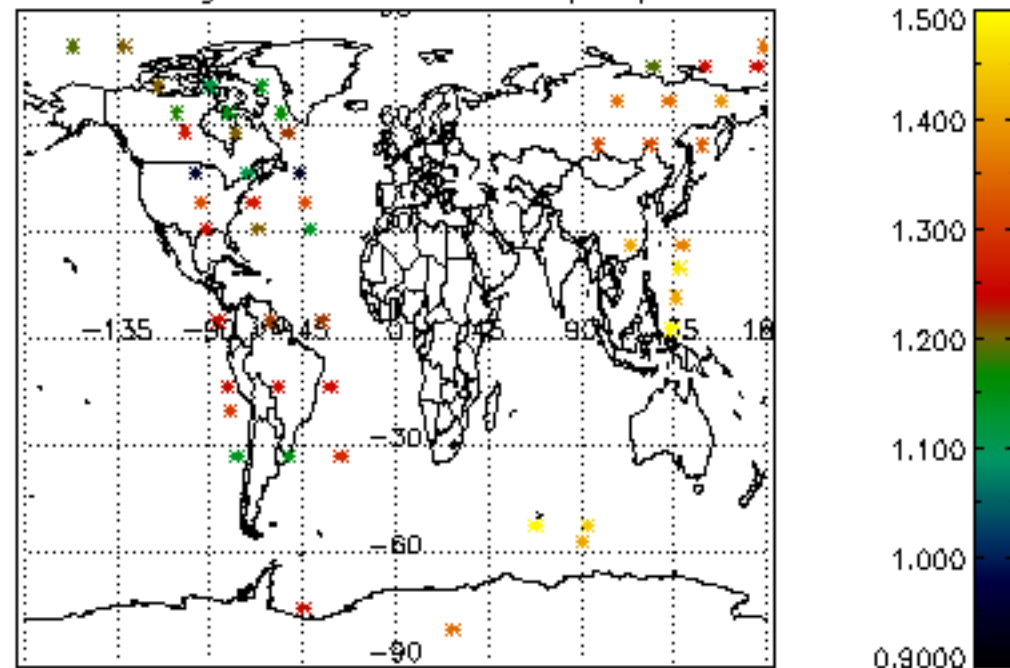




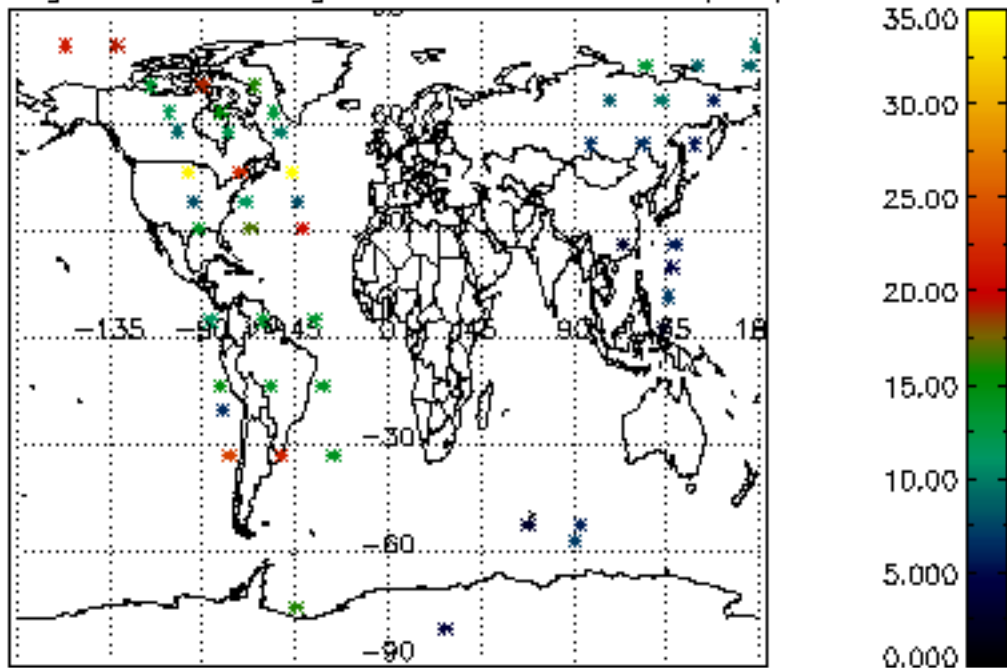
Percentage of cosmic ray hits per profile



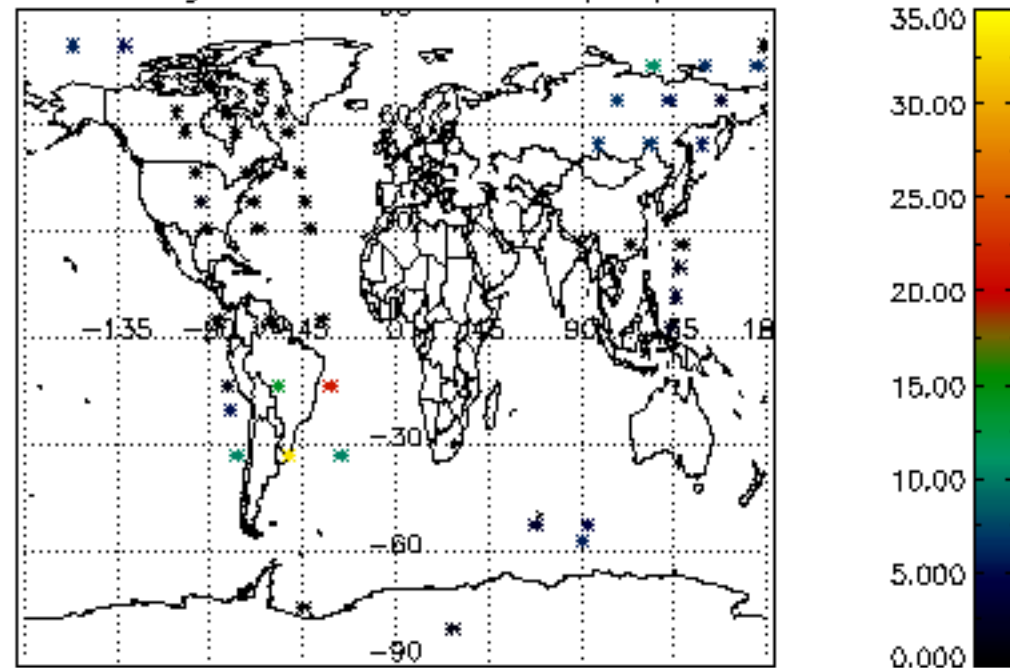
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

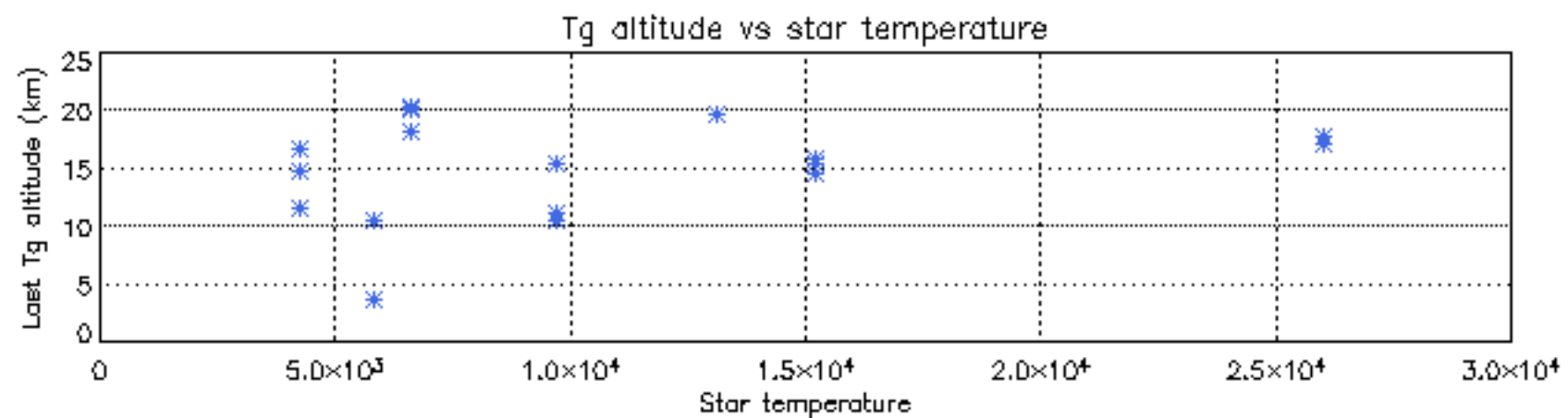
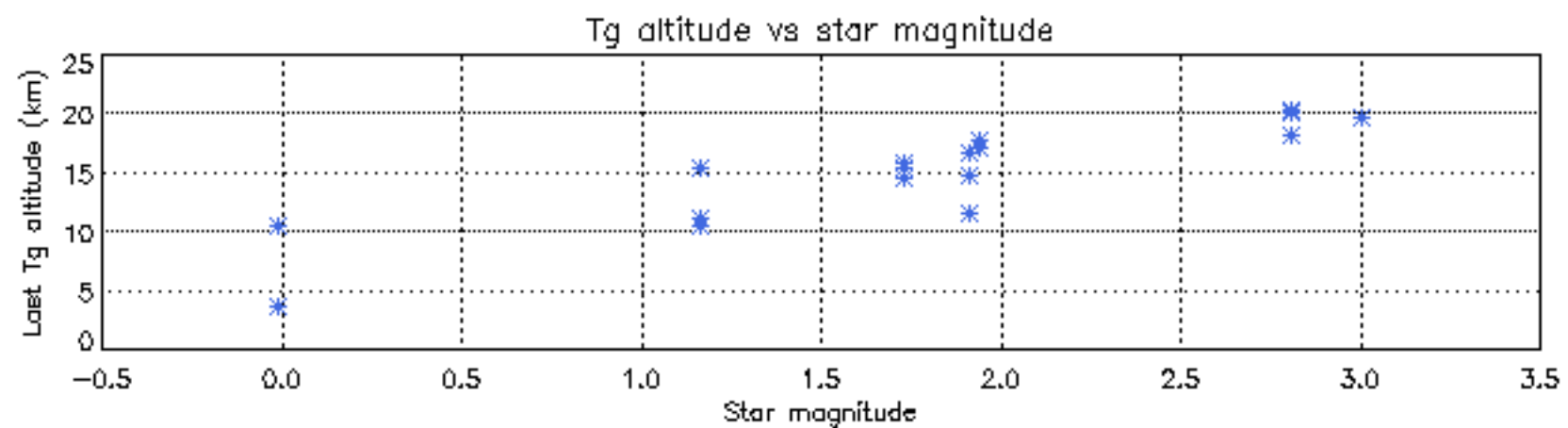
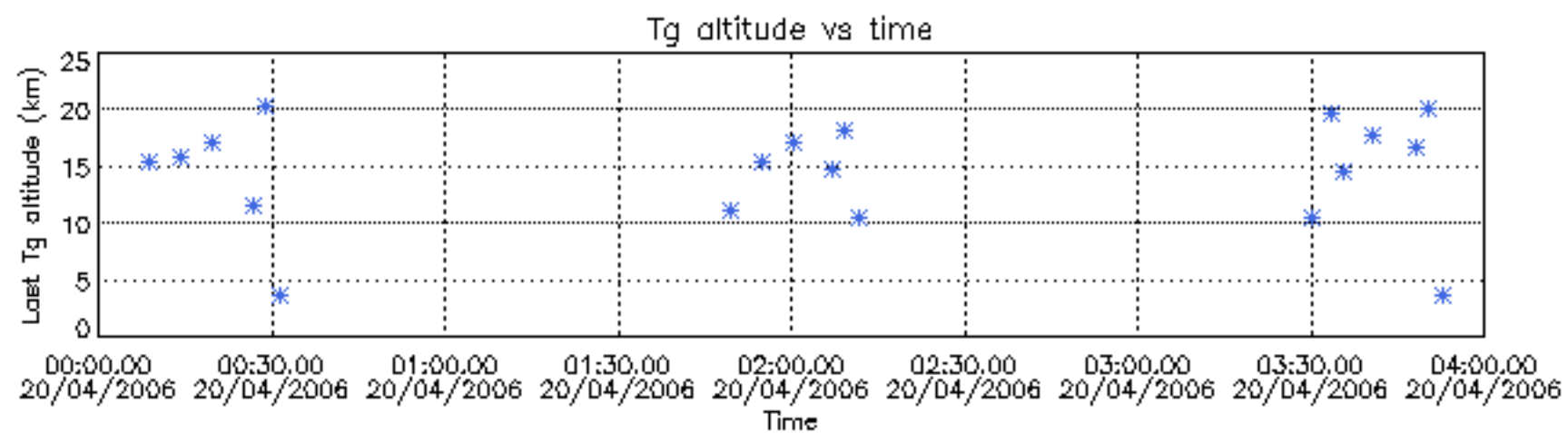


Percentage of saturation errors per profile

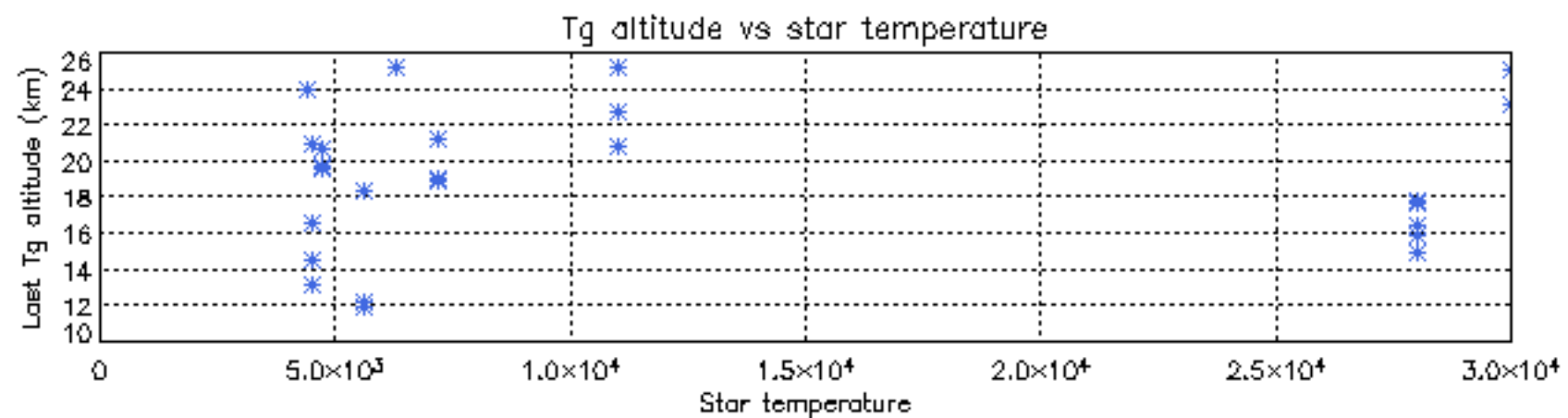
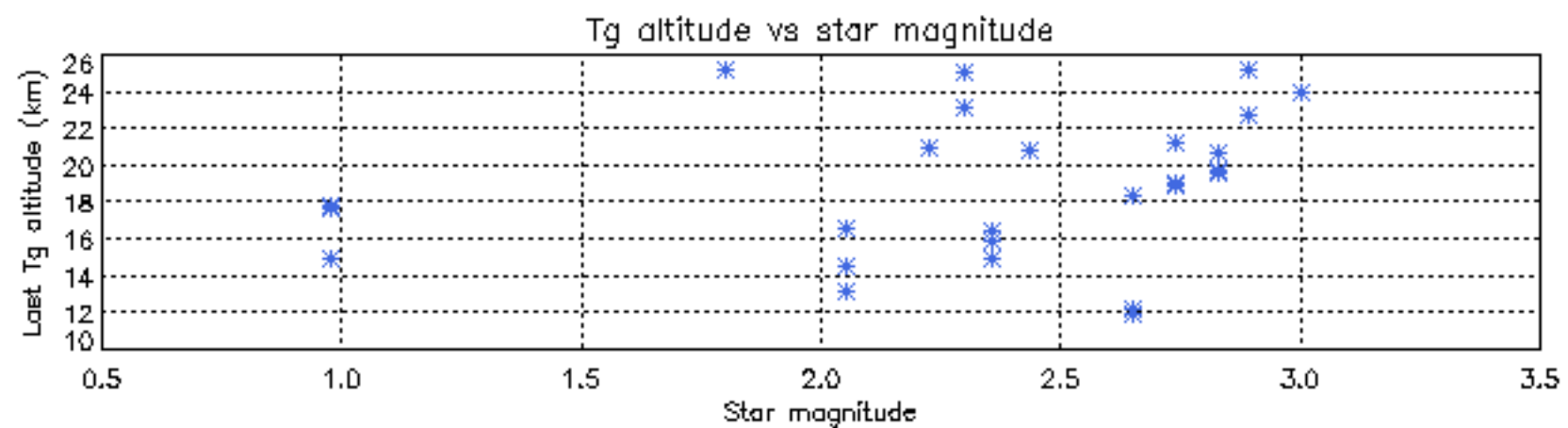
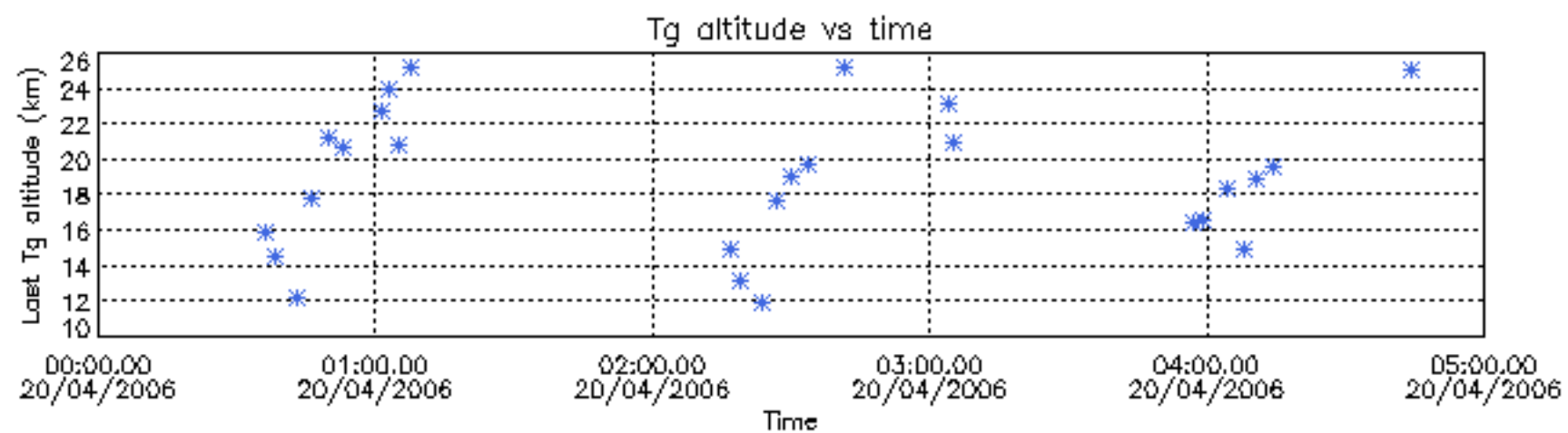




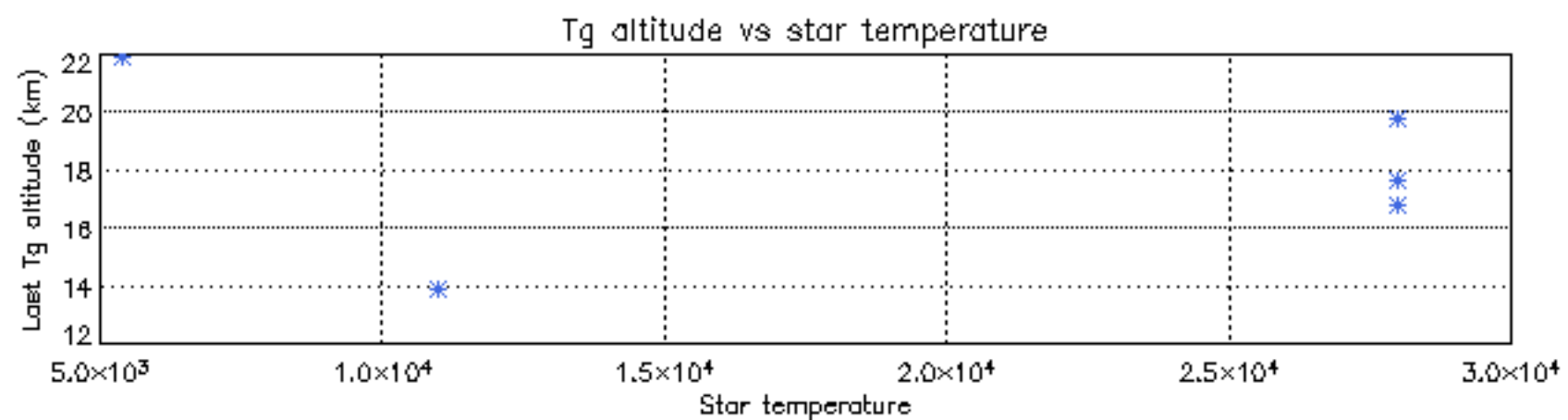
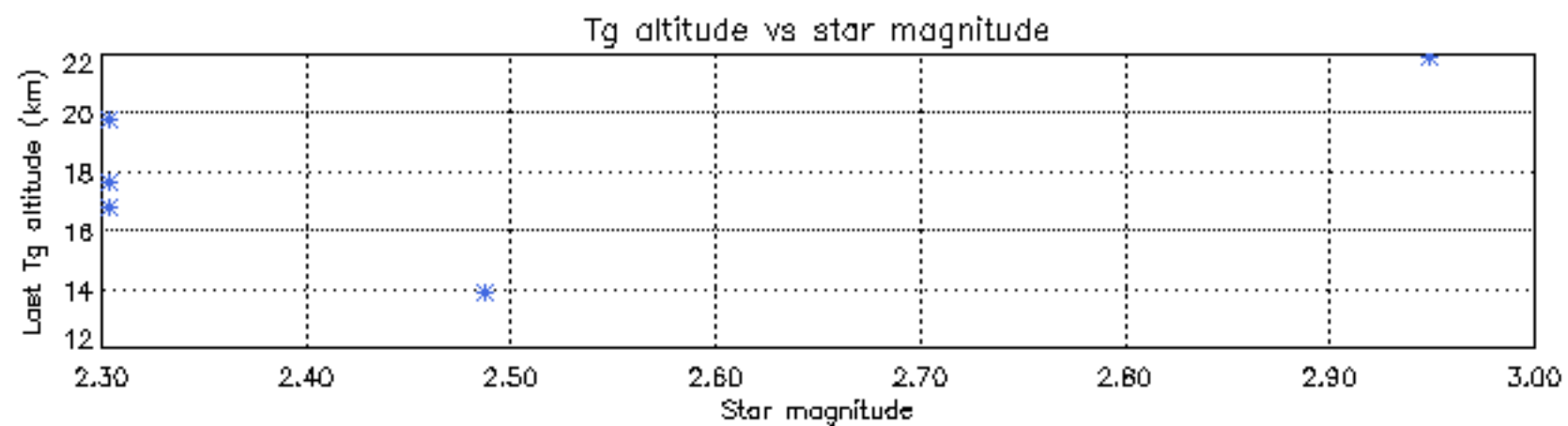
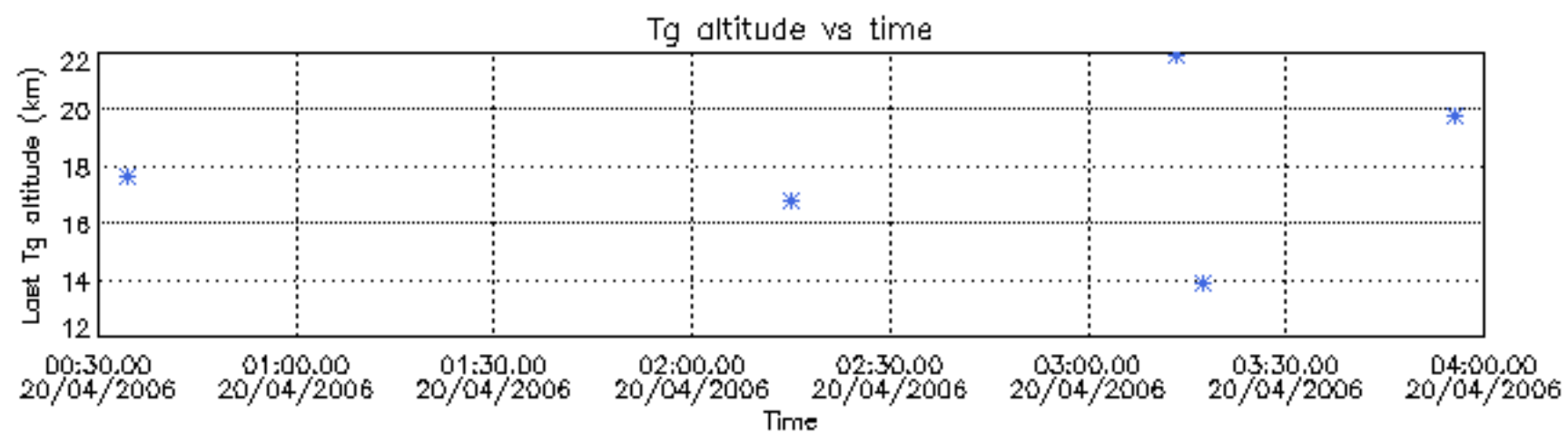
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 3; 514.9; 01-APR-2006 00:23:08; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21356  
 4; 673.5; 01-APR-2006 00:25:46; Dark ; 55.0; 4; Alp1Cen ;-0.01; 5800;occ; 110; 0;21356  
 5; 837.9; 01-APR-2006 00:28:31; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;21356  
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 9; 1459.7; 01-APR-2006 00:38:52; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;21356  
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 12; 2256.9; 01-APR-2006 00:52:10; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21356  
 13; 2666.3; 01-APR-2006 00:58:59; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;21356  
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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  
 18; 3902.0; 01-APR-2006 01:19:35; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;21356  
 19; 4213.6; 01-APR-2006 01:24:46; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;21356  
 20; 4434.0; 01-APR-2006 01:28:27; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;21356  
 21; 4826.3; 01-APR-2006 01:34:59; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;21356  
 22; 5101.6; 01-APR-2006 01:39:34; Dark ; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;21356

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 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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 6; 6874.5; 01-APR-2006 02:09:07; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;21356  
 7; 6970.6; 01-APR-2006 02:10:43; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;21356  
 8; 7050.1; 01-APR-2006 02:12:03; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;21356  
 9; 7204.0; 01-APR-2006 02:14:37; Dark ; 45.0; 123; Iot Cen ; 2.75; 10200;occ; 90; 0;21356  
 10; 7495.8; 01-APR-2006 02:19:28; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;21356  
 11; 7613.8; 01-APR-2006 02:21:26; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;21356  
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 13; 8292.9; 01-APR-2006 02:32:45; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21356  
 14; 8702.1; 01-APR-2006 02:39:35; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;21356  
 15; 8884.4; 01-APR-2006 02:42:37; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;21356  
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 7; 333.6; 01-APR-2006 03:41:18; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;21358  
 8; 516.0; 01-APR-2006 03:44:20; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21358  
 9; 674.6; 01-APR-2006 03:46:59; Dark ; 54.5; 4; Alp1Cen ;-0.01; 5800;occ; 109; 0;21358  
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 12; 1014.8; 01-APR-2006 03:52:39; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;21358  
 13; 1168.5; 01-APR-2006 03:55:13; Dark ; 45.5; 123; Iot Cen ; 2.75; 10200;occ; 91; 0;21358  
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8; 516.5; 01-APR-2006 05:24:57; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;21359
9; 675.1; 01-APR-2006 05:27:36; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;21359
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8; 517.1; 01-APR-2006 07:05:34; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21360
9; 675.5; 01-APR-2006 07:08:12; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;21360
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13; 1169.4; 01-APR-2006 07:16:26; Dark ; 44.0; 123; Iot Cen ; 2.75; 10200;occ; 88; 0;21360
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4; 1580.0; 01-APR-2006 20:48:04; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;21368
5; 2160.3; 01-APR-2006 20:57:44; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21368
6; 2257.5; 01-APR-2006 20:59:21; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21368
7; 2666.2; 01-APR-2006 21:06:10; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;21368
8; 2846.6; 01-APR-2006 21:09:10; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;21368

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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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 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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 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  
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 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  
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 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  
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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  
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 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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 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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 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  
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 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



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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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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
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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
9; 1435.4; 02-APR-2006 21:54:39; Dark ; 27.0; 169; 46Gam Hya ; 2.99; 4700;occ; 54; 0;21383
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13; 8192.9; 04-APR-2006 02:36:51; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;21399
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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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9;-2153.5; 14-APR-2006 12:54:53; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;21549  
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18; 486.0; 14-APR-2006 13:38:52; Dark ; 38.0; 43; Alp TrA ; 1.91; 4250;occ; 76; 0;21550  
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8;-2757.4; 14-APR-2006 14:25:25; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;21550  
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23; 1184.8; 14-APR-2006 15:31:07; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;21551

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6; 2820.0; 22-APR-2006 08:24:17; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;21661  
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9; 3906.6; 22-APR-2006 08:42:23; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;21661  
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