

# GOMOS Daily Report 22-JAN-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	24JAN2006 04:31:55

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (22JAN2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (23JAN2006 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)

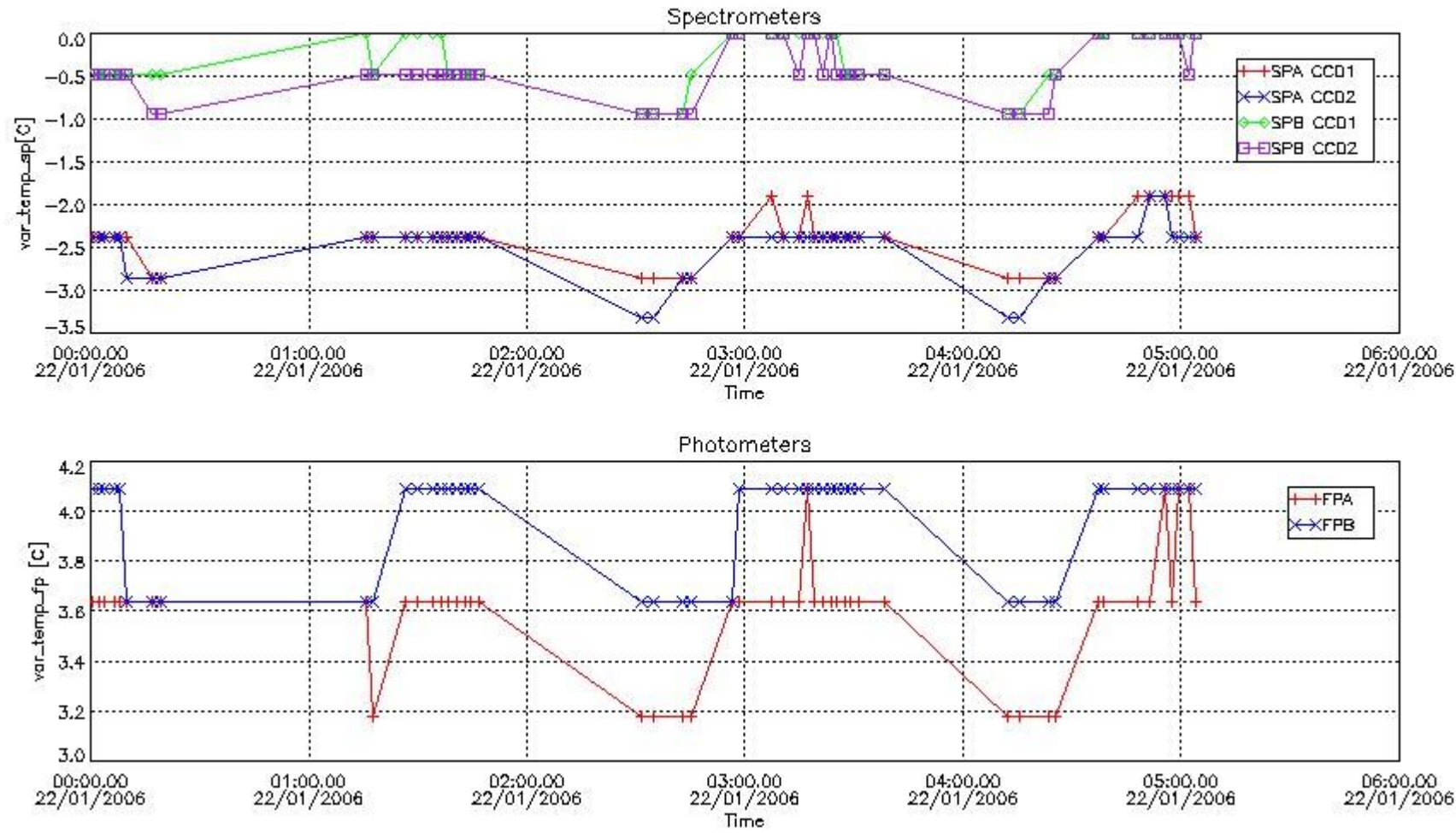
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060122_000017_000000412044_00274_20368_0006.N1	22-JAN-2006 00:00:17	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	20368	No
2	GOM_TRA_1PNPDE20060122_000224_000000432044_00274_20368_0007.N1	22-JAN-2006 00:02:24	Dark	42.500	70	Zet Pup	2.2460	39000.	85	20368	No
3	GOM_TRA_1PNPDE20060122_000356_000000402044_00274_20368_0008.N1	22-JAN-2006 00:03:56	Dark	40.000	117	Pi Pup	2.7060	3800.0	80	20368	No
4	GOM_TRA_1PNPDE20060122_000626_000000382044_00274_20368_0009.N1	22-JAN-2006 00:06:26	Twilight	38.000	23	21Eps CMa	1.5020	26000.	76	20368	No
5	GOM_TRA_1PNPDE20060122_000749_000000392044_00274_20368_0010.N1	22-JAN-2006 00:07:49	Twilight	39.000	179	24Omi2CMa	3.0320	24000.	78	20368	No
6	GOM_TRA_1PNPDE20060122_001000_000000462044_00274_20368_0011.N1	22-JAN-2006 00:10:00	Twilight	46.000	1	9Alp CMa	-1.4400	11000.	92	20368	No
7	GOM_TRA_1PNPDE20060122_001710_000000492044_00274_20368_0012.N1	22-JAN-2006 00:17:10	Bright	48.500	14	58Alp Ori	0.87000	3000.0	97	20368	No
8	GOM_TRA_1PNPDE20060122_001924_000000412044_00274_20368_0013.N1	22-JAN-2006 00:19:24	Bright	41.000	44	24Gam Gem	1.9280	11000.	82	20368	No
9	GOM_TRA_1PNPDE20060122_011556_000000422044_00274_20368_0000.N1	22-JAN-2006 01:15:56	Twilight	42.000	75	26Eps Sco	2.2910	4250.0	84	20368	No
10	GOM_TRA_1PNPDE20060122_011731_000000302044_00274_20368_0001.N1	22-JAN-2006 01:17:31	Twilight	30.000	40	The Sco	1.8590	7100.0	60	20368	No
11	GOM_TRA_1PNPDE20060122_012638_000000382044_00275_20369_0002.N1	22-JAN-2006 01:26:38	Dark	38.000	10	Bet Cen	0.61000	28000.	76	20369	No
12	GOM_TRA_1PNPDE20060122_013006_000000392044_00275_20369_0003.N1	22-JAN-2006 01:30:06	Dark	39.000	12	Alp1Cru	0.77500	30000.	78	20369	No
13	GOM_TRA_1PNPDE20060122_013418_000000382044_00275_20369_0004.N1	22-JAN-2006 01:34:18	Dark	37.500	29	Bet Car	1.6720	10200.	75	20369	No
14	GOM_TRA_1PNPDE20060122_013625_000000402044_00275_20369_0005.N1	22-JAN-2006 01:36:25	Dark	39.500	71	Iot Car	2.2460	7700.0	79	20369	No
15	GOM_TRA_1PNPDE20060122_013815_000000432044_00275_20369_0006.N1	22-JAN-2006 01:38:15	Dark	42.500	46	Del Vel	1.9540	10600.	85	20369	No
16	GOM_TRA_1PNPDE20060122_014053_000000432044_00275_20369_0007.N1	22-JAN-2006 01:40:53	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	20369	No
17	GOM_TRA_1PNPDE20060122_014300_000000382044_00275_20369_0008.N1	22-JAN-2006 01:43:00	Dark	38.000	70	Zet Pup	2.2460	39000.	76	20369	No
18	GOM_TRA_1PNPDE20060122_014432_000000412044_00275_20369_0009.N1	22-JAN-2006 01:44:32	Dark	41.000	117	Pi Pup	2.7060	3800.0	82	20369	No
19	GOM_TRA_1PNPDE20060122_014702_000000422044_00275_20369_0010.N1	22-JAN-2006 01:47:02	Twilight	42.000	23	21Eps CMa	1.5020	26000.	84	20369	No
20	GOM_TRA_1PNPDE20060122_023137_000000362044_00275_20369_0000.N1	22-JAN-2006 02:31:37	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	20369	No
21	GOM_TRA_1PNPDE20060122_023455_000000372044_00275_20369_0001.N1	22-JAN-2006 02:34:55	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	20369	No
22	GOM_TRA_1PNPDE20060122_024254_000000342044_00275_20369_0002.N1	22-JAN-2006 02:42:54	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	20369	No
23	GOM_TRA_1PNPDE20060122_024501_000000342044_00275_20369_0003.N1	22-JAN-2006 02:45:01	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	20369	No
24	GOM_TRA_1PNPDE20060122_025632_000000412044_00275_20369_0004.N1	22-JAN-2006 02:56:32	Twilight	41.000	75	26Eps Sco	2.2910	4250.0	82	20369	No
25	GOM_TRA_1PNPDE20060122_025807_000000302044_00275_20369_0005.N1	22-JAN-2006 02:58:07	Twilight	30.000	40	The Sco	1.8590	7100.0	60	20369	No
26	GOM_TRA_1PNPDE20060122_030714_000000402044_00276_20370_0006.N1	22-JAN-2006 03:07:14	Dark	40.000	10	Bet Cen	0.61000	28000.	80	20370	No
27	GOM_TRA_1PNPDE20060122_031042_000000422044_00276_20370_0007.N1	22-JAN-2006 03:10:42	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	20370	No
28	GOM_TRA_1PNPDE20060122_031454_000000442044_00276_20370_0008.N1	22-JAN-2006 03:14:54	Dark	43.500	29	Bet Car	1.6720	10200.	87	20370	No
29	GOM_TRA_1PNPDE20060122_031702_000000432044_00276_20370_0009.N1	22-JAN-2006 03:17:02	Dark	42.500	71	Iot Car	2.2460	7700.0	85	20370	No
30	GOM_TRA_1PNPDE20060122_031851_000000432044_00276_20370_0010.N1	22-JAN-2006 03:18:51	Dark	42.500	46	Del Vel	1.9540	10600.	85	20370	No
31	GOM_TRA_1PNPDE20060122_032129_000000432044_00276_20370_0011.N1	22-JAN-2006 03:21:29	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	20370	No
32	GOM_TRA_1PNPDE20060122_032337_000000432044_00276_20370_0012.N1	22-JAN-2006 03:23:37	Dark	43.000	70	Zet Pup	2.2460	39000.	86	20370	No
33	GOM_TRA_1PNPDE20060122_032509_000000442044_00276_20370_0013.N1	22-JAN-2006 03:25:09	Dark	43.500	117	Pi Pup	2.7060	3800.0	87	20370	No
34	GOM_TRA_1PNPDE20060122_032738_000000412044_00276_20370_0014.N1	22-JAN-2006 03:27:38	Twilight	40.500	23	21Eps CMa	1.5020	26000.	81	20370	No
35	GOM_TRA_1PNPDE20060122_032901_000000392044_00276_20370_0015.N1	22-JAN-2006 03:29:01	Twilight	38.500	179	24Omi2CMa	3.0320	24000.	77	20370	No
36	GOM_TRA_1PNPDE20060122_033112_000000472044_00276_20370_0016.N1	22-JAN-2006 03:31:12	Bright	47.000	1	9Alp CMa	-1.4400	11000.	94	20370	No
37	GOM_TRA_1PNPDE20060122_033822_000000522044_00276_20370_0017.N1	22-JAN-2006 03:38:22	Bright	52.000	14	58Alp Ori	0.87000	3000.0	104	20370	No
38	GOM_TRA_1PNPDE20060122_041213_000000372044_00276_20370_0000.N1	22-JAN-2006 04:12:13	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	20370	No
39	GOM_TRA_1PNPDE20060122_041532_000000332044_00276_20370_0001.N1	22-JAN-2006 04:15:32	Bright	33.000	5	3Alp Lyr	0.033000	11000.	66	20370	No
40	GOM_TRA_1PNPDE20060122_042331_000000352044_00276_20370_0002.N1	22-JAN-2006 04:23:31	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	20370	No
41	GOM_TRA_1PNPDE20060122_042537_000000342044_00276_20370_0003.N1	22-JAN-2006 04:25:37	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	20370	No
42	GOM_TRA_1PNPDE20060122_043708_000000442044_00276_20370_0004.N1	22-JAN-2006 04:37:08	Twilight	43.500	75	26Eps Sco	2.2910	4250.0	87	20370	No
43	GOM_TRA_1PNPDE20060122_043843_000000422044_00276_20370_0005.N1	22-JAN-2006 04:38:43	Twilight	41.500	40	The Sco	1.8590	7100.0	83	20370	No
44	GOM_TRA_1PNPDE20060122_044751_000000512044_00277_20371_0006.N1	22-JAN-2006 04:47:51	Dark	51.000	10	Bet Cen	0.61000	28000.	102	20371	No
45	GOM_TRA_1PNPDE20060122_045118_000000412044_00277_20371_0007.N1	22-JAN-2006 04:51:18	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	20371	No
46	GOM_TRA_1PNPDE20060122_045531_000000372044_00277_20371_0008.N1	22-JAN-2006 04:55:31	Dark	36.500	29	Bet Car	1.6720	10200.	73	20371	No

47	GOM_TRA_1PNPDE20060122_045738_000000402044_00277_20371_0009.N1	22-JAN-2006 04:57:38	Dark	39.500	71	Iot Car	2.2460	7700.0	79	20371	No
48	GOM_TRA_1PNPDE20060122_045928_000000402044_00277_20371_0010.N1	22-JAN-2006 04:59:28	Dark	39.500	46	Del Vel	1.9540	10600.	79	20371	No
49	GOM_TRA_1PNPDE20060122_050206_000000392044_00277_20371_0011.N1	22-JAN-2006 05:02:06	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	20371	No
50	GOM_TRA_1PNPDE20060122_050413_000000412044_00277_20371_0012.N1	22-JAN-2006 05:04:13	Dark	40.500	70	Zet Pup	2.2460	39000.	81	20371	No

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



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

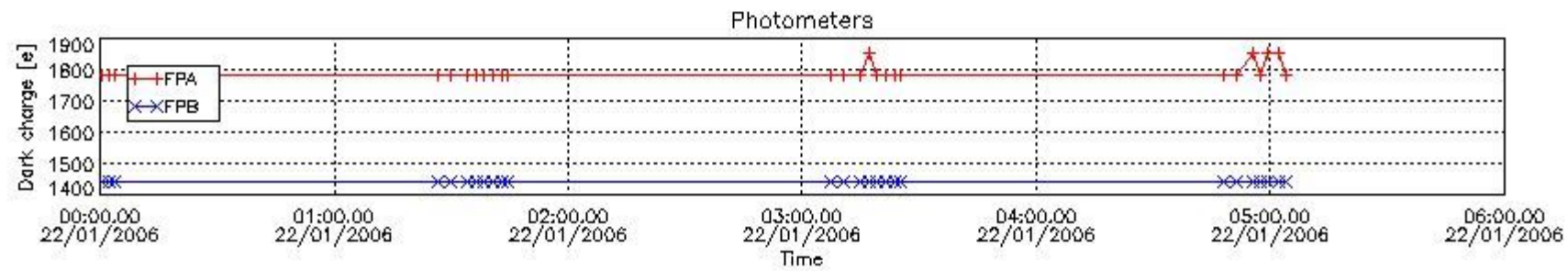
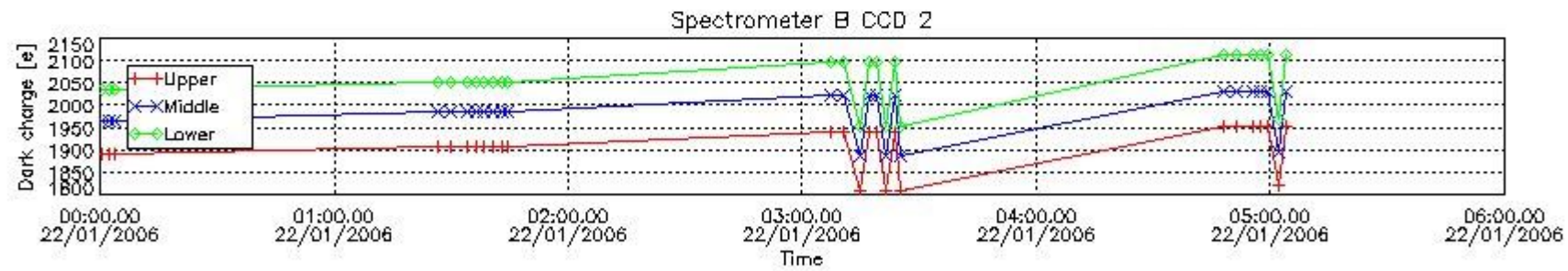
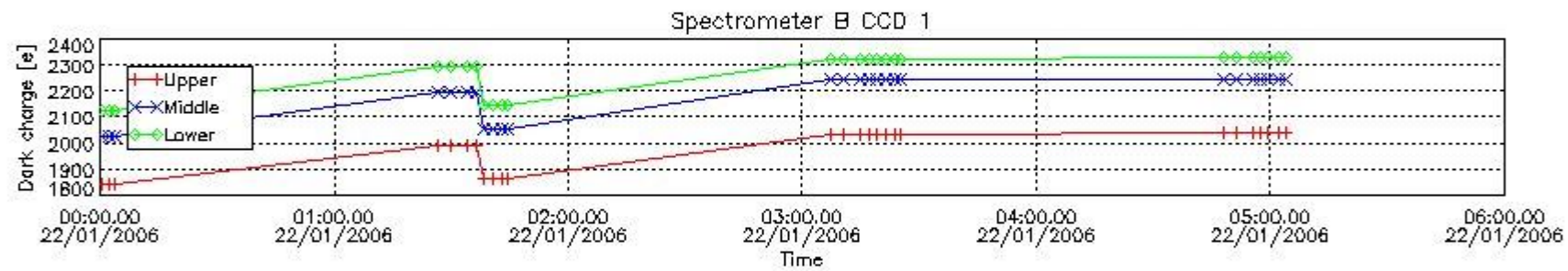
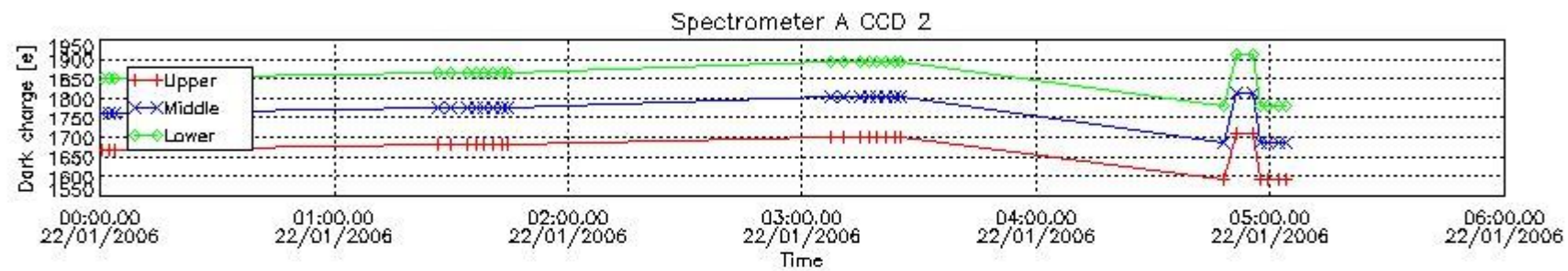
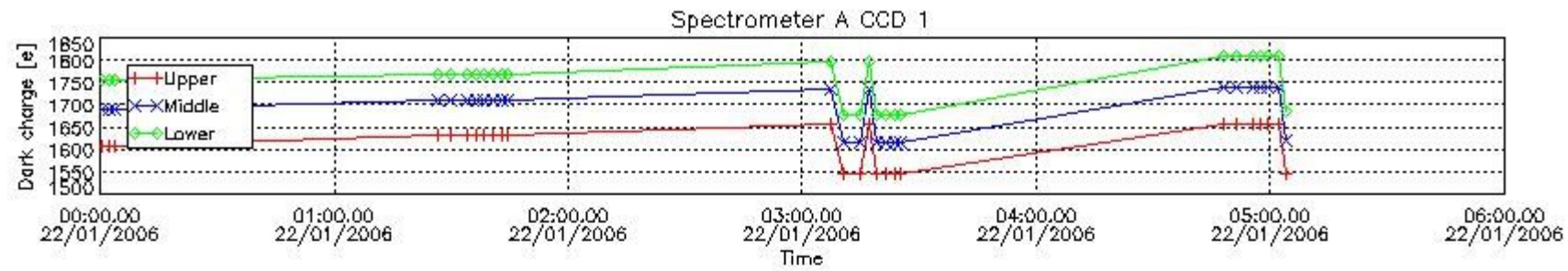
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





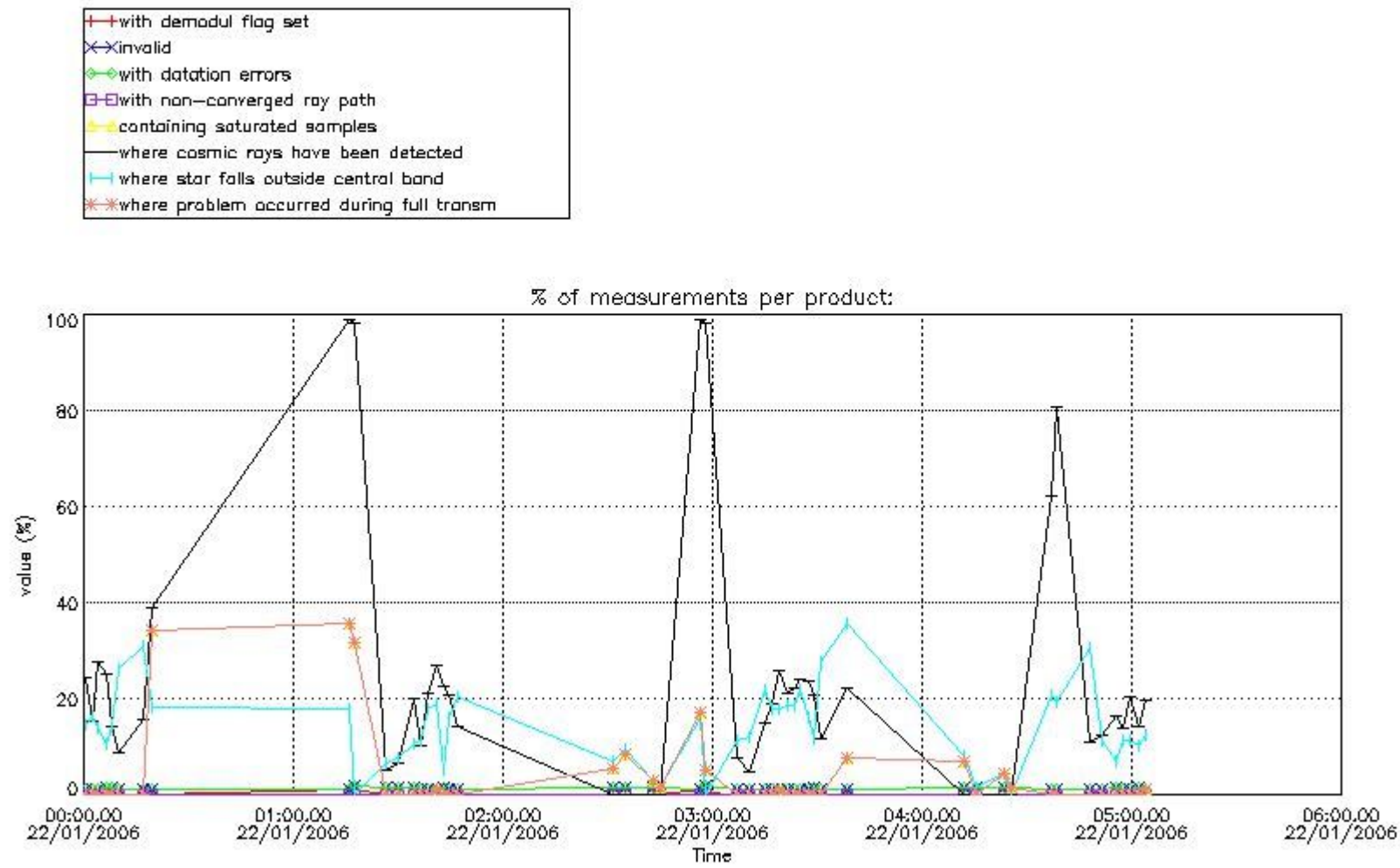
## 5. Demodulation flag and quality information monitoring

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:

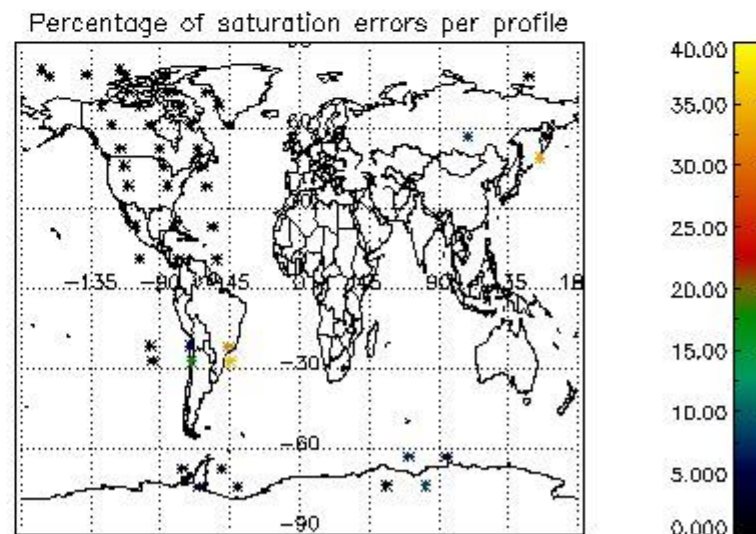
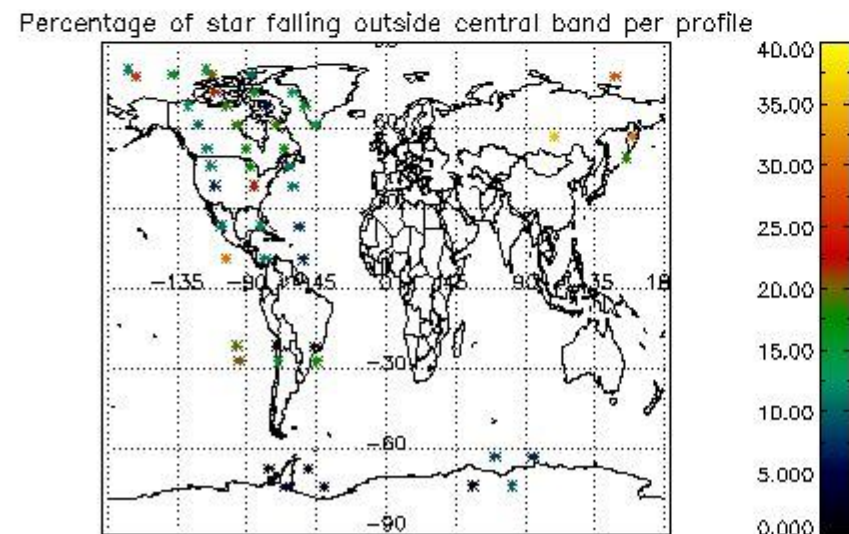
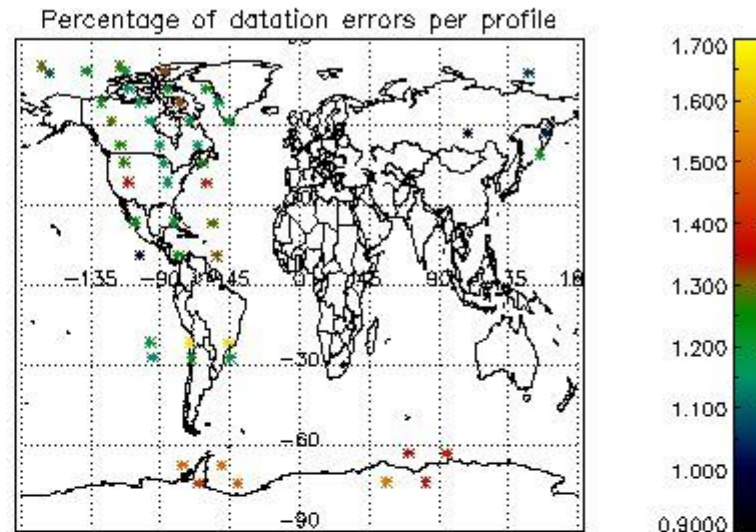
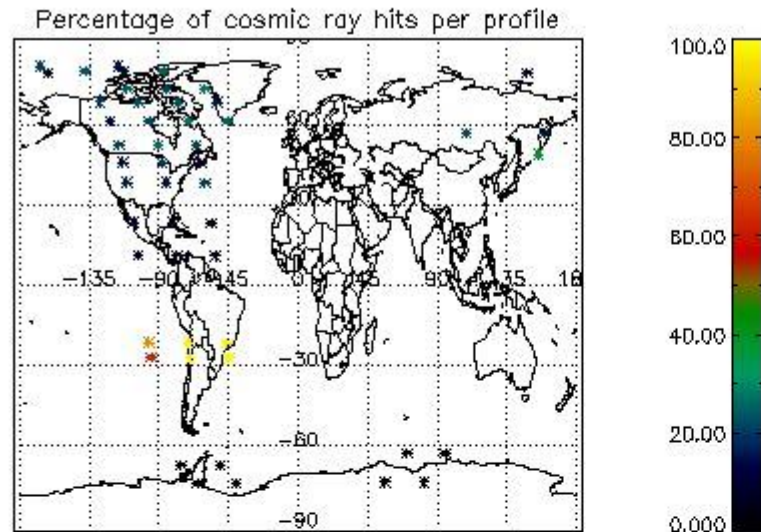
At least one measurement with demodulation flag set:	20.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





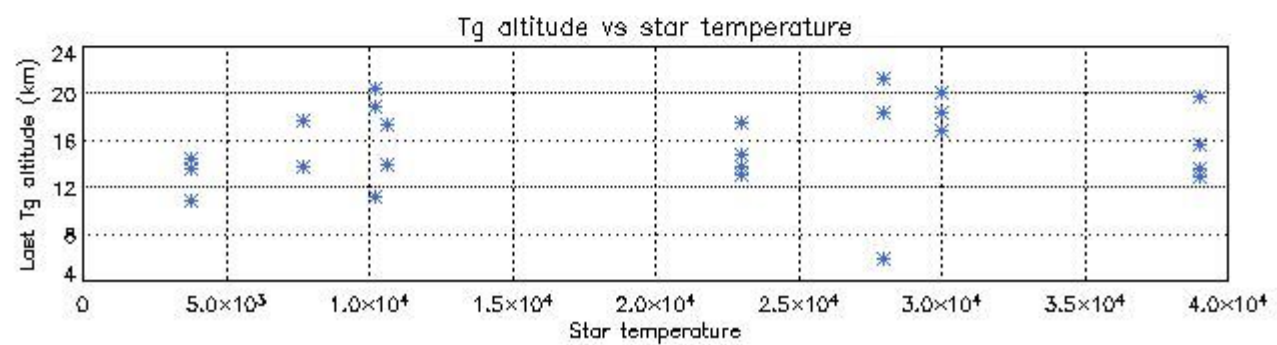
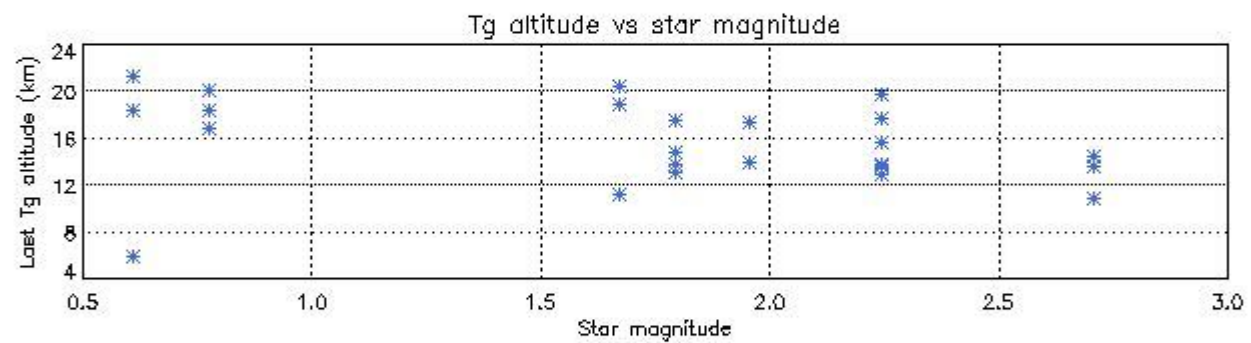
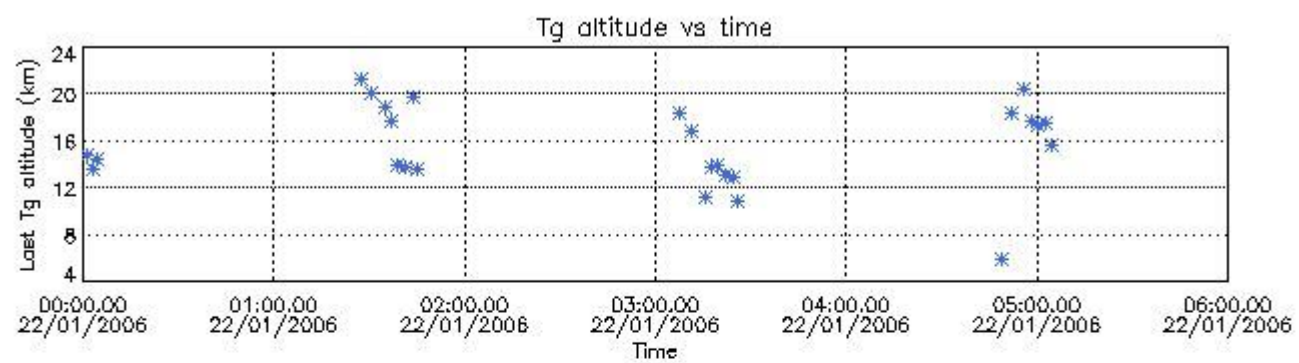
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.593	17.626	16.750
St. deviation:	3.5226	7.7246	8.4865
Maximum:	21.249	25.958	34.442
Minimum:	5.8664	4.4414	8.9304
Number of data:	26.000	12.000	12.000

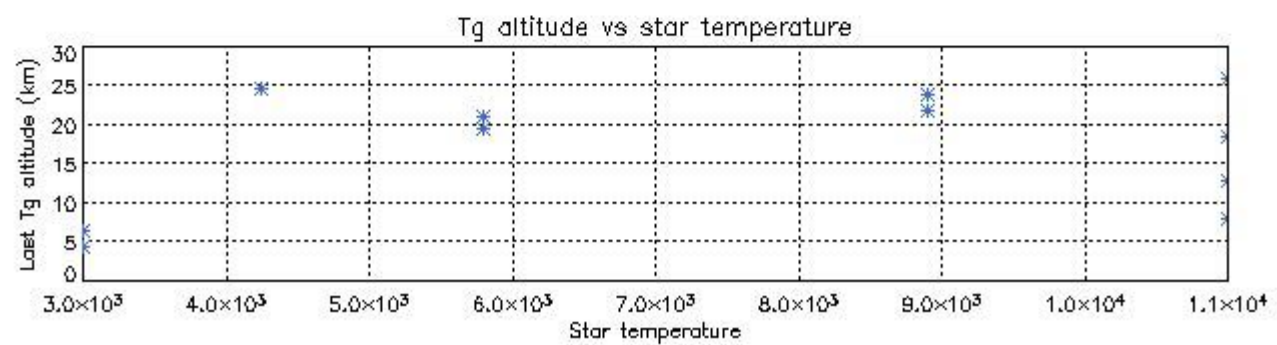
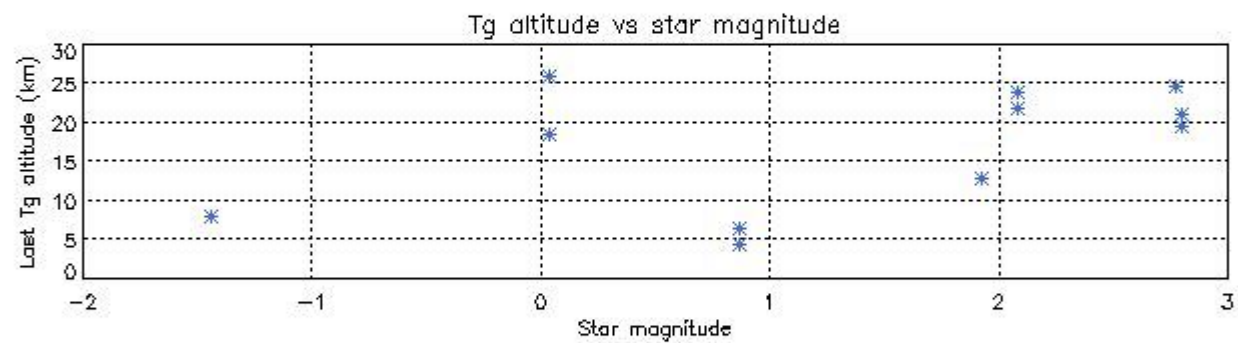
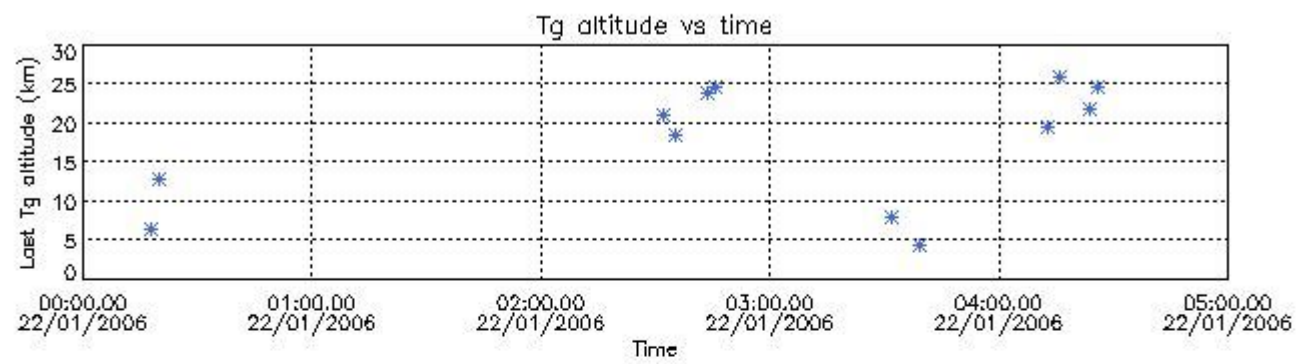
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

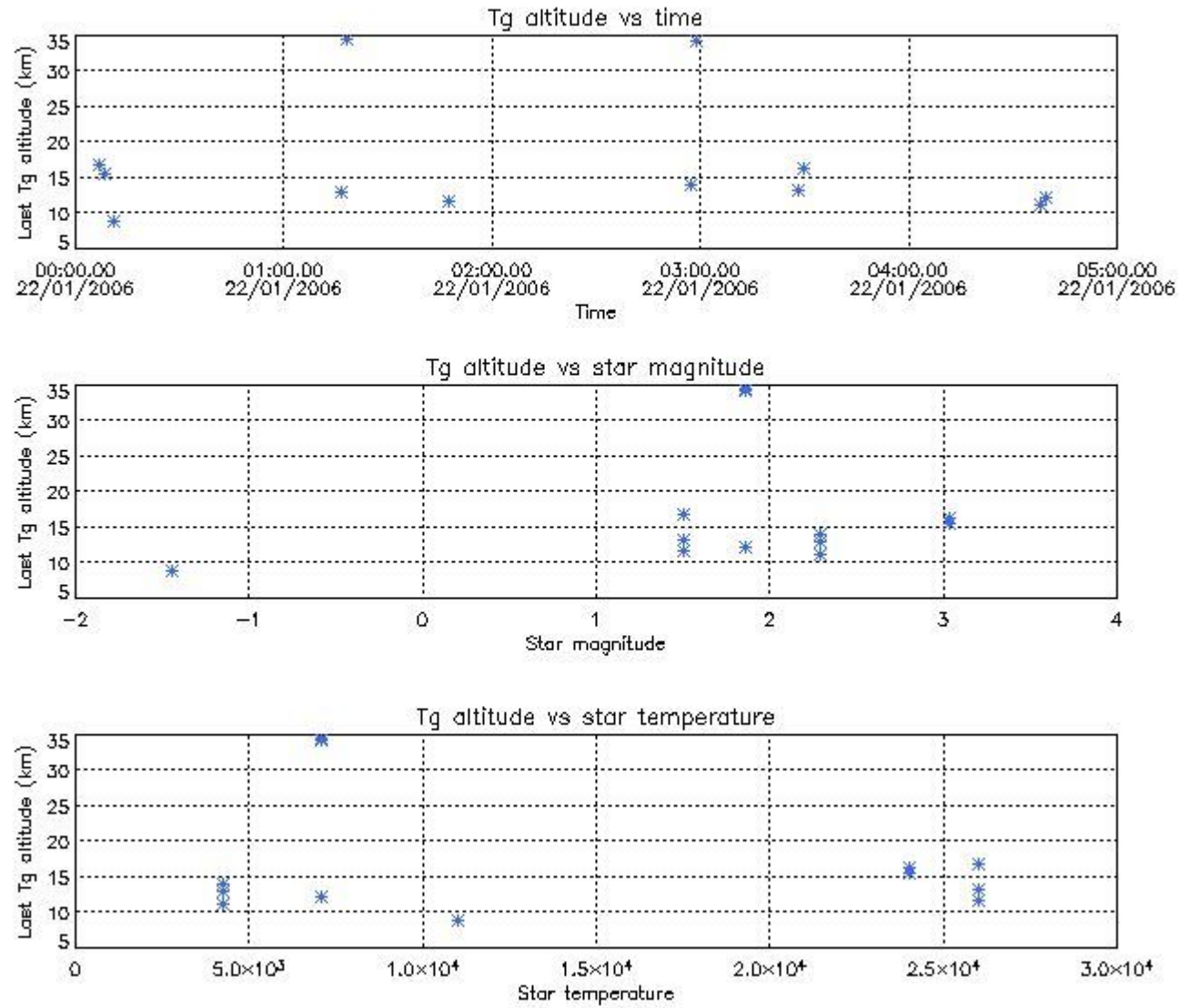
Tangent altitude at which the star is lost



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

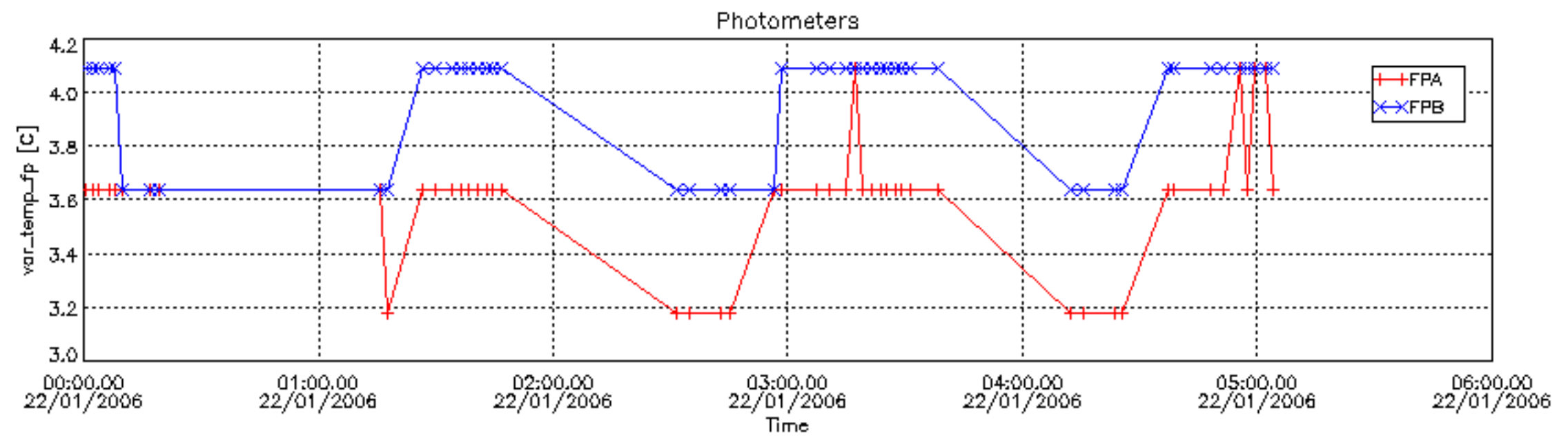
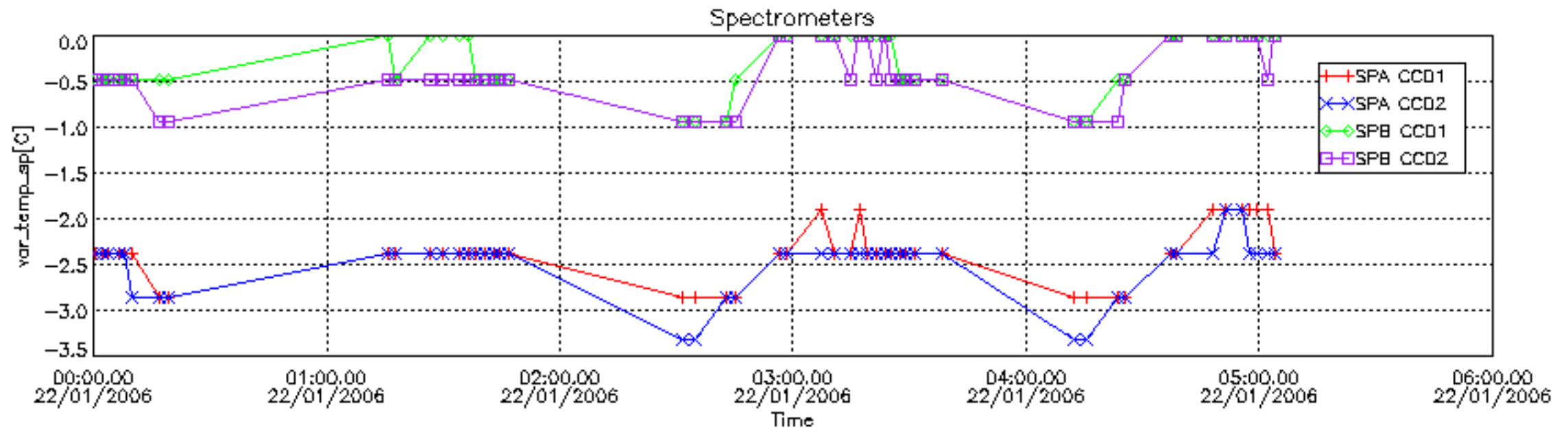
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.3	1446.3	1459.7	1445.6
St. deviation:	4.5994	7.5936	4.6863	7.2589
Maximum:	1488.0	1477.0	1485.0	1477.0
Minimum:	1436.0	1413.0	1440.0	1412.0
Number of data:	22650.	22650.	9600.0	9600.0

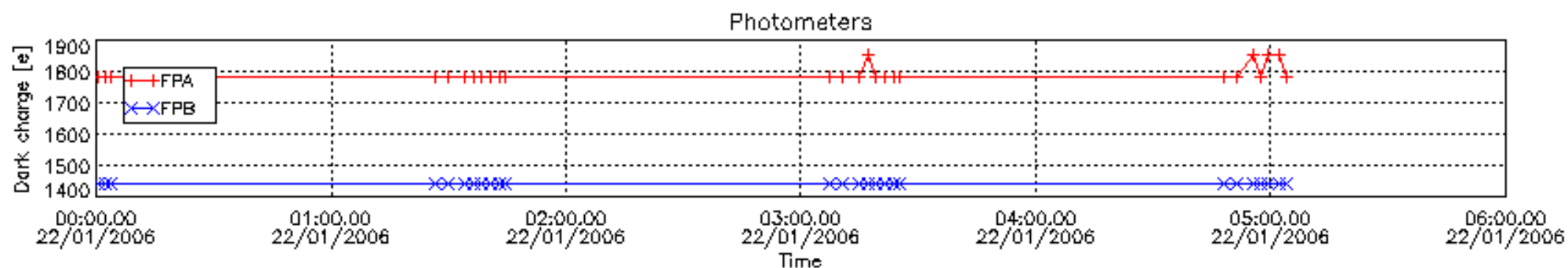
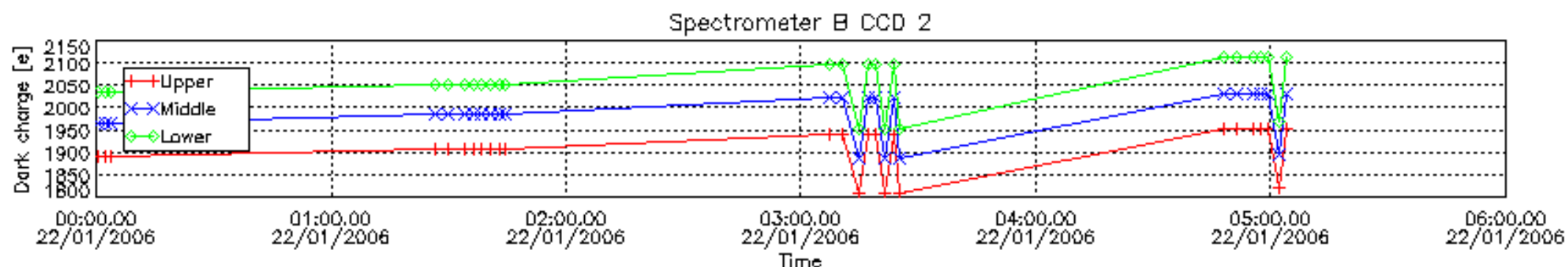
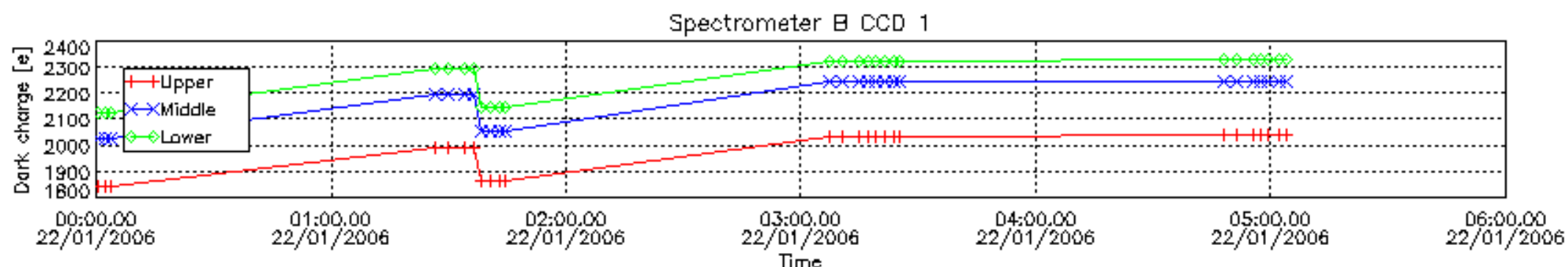
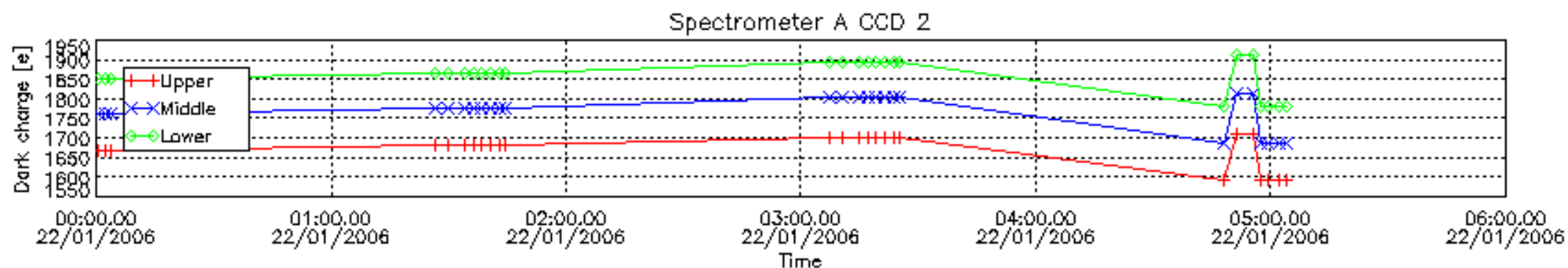
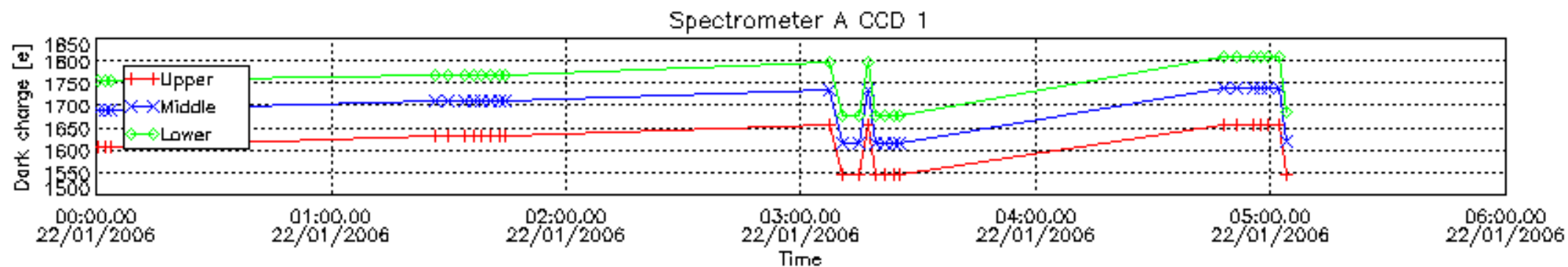
## 8. Auxiliary Data Files used for the production reported in section 2.2

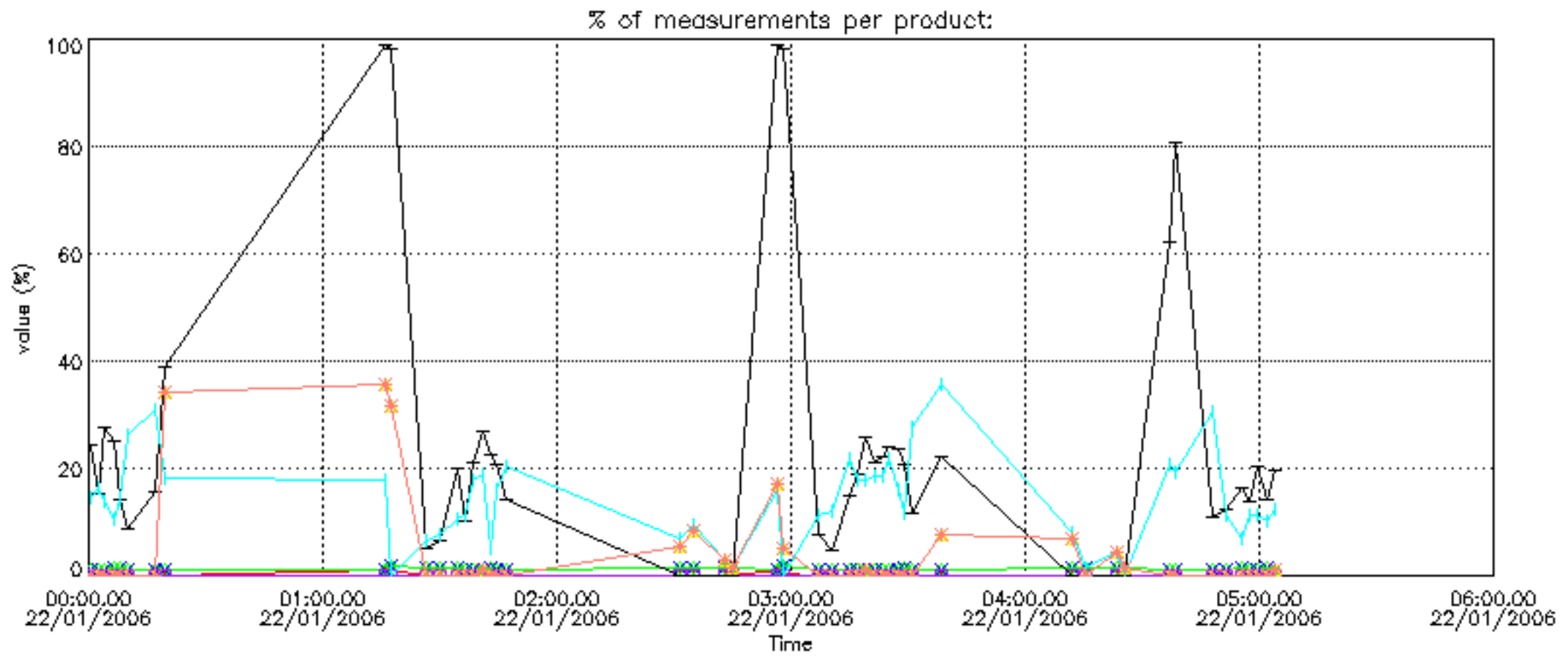
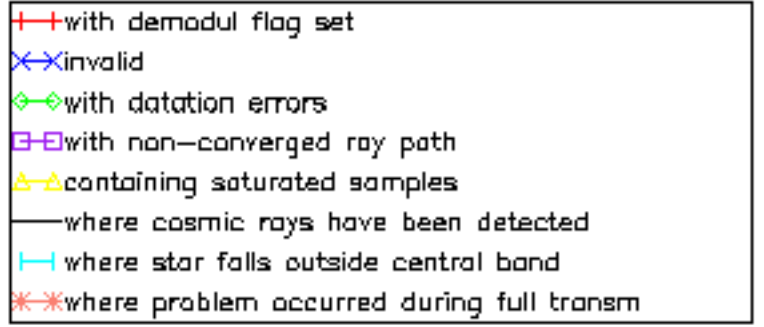
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	22-JAN-2006 00:00:17
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060111_114949_20060108_000000_20100101_000000	1	22-JAN-2006 00:00:17
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	22-JAN-2006 00:00:17
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-JAN-2006 00:00:17
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	22-JAN-2006 00:00:17
ECMWF_FILE	AUX_ECF_AXNECM20060121_060050_20060121_210000_20060122_090000	1	22-JAN-2006 00:00:17
ECMWF_FILE	AUX_ECA_AXNECM20060122_070013_20060121_210000_20060122_090000	35	22-JAN-2006 03:29:01
ECMWF_FILE	AUX_ECF_AXNECM20060121_193133_20060122_030000_20060122_150000	38	22-JAN-2006 04:12:13
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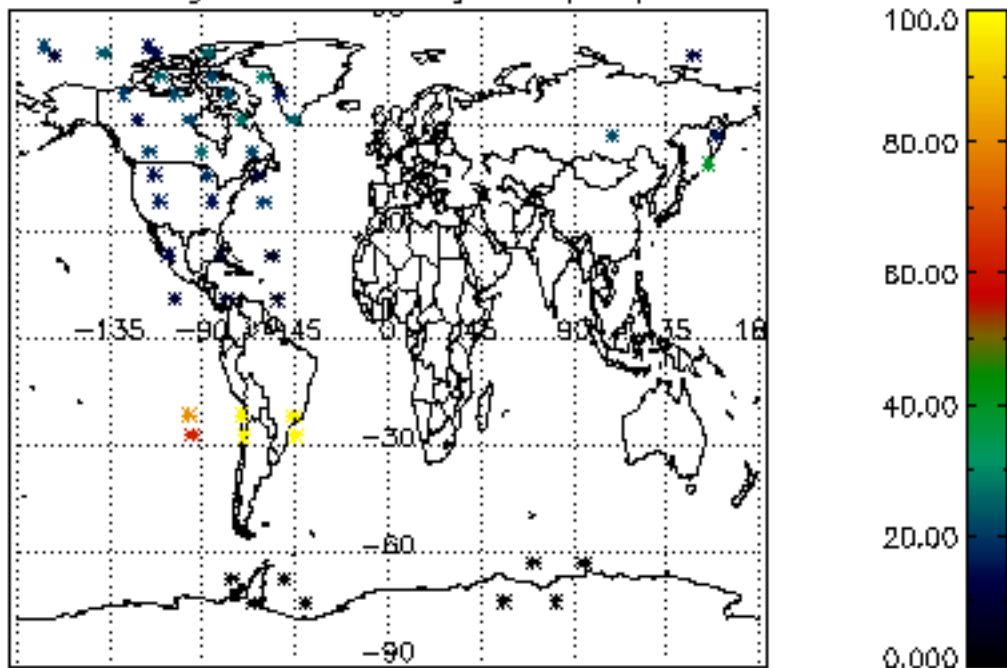




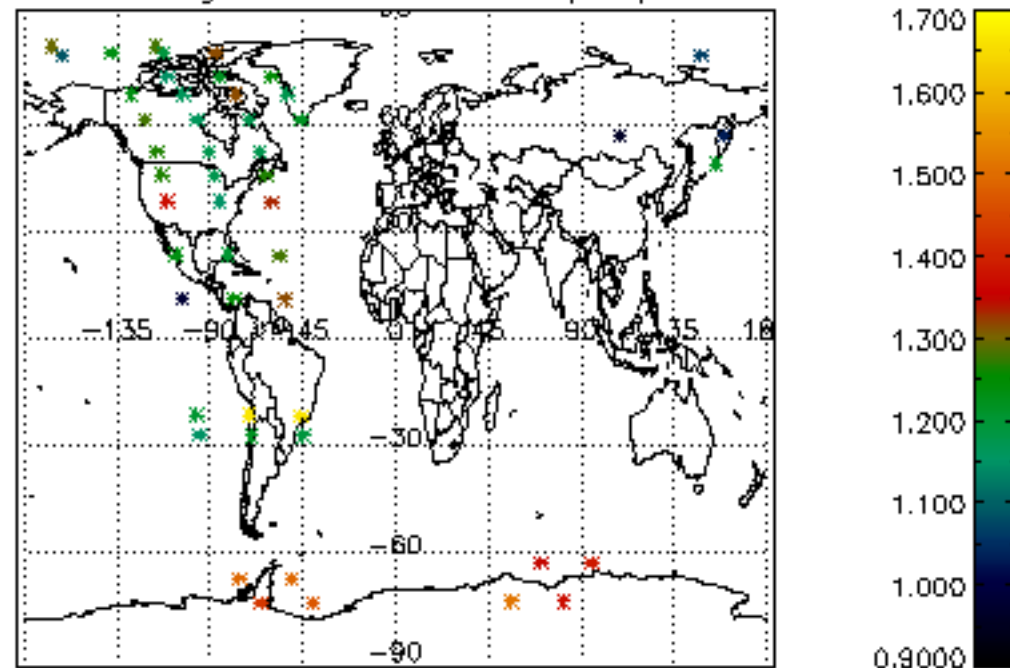




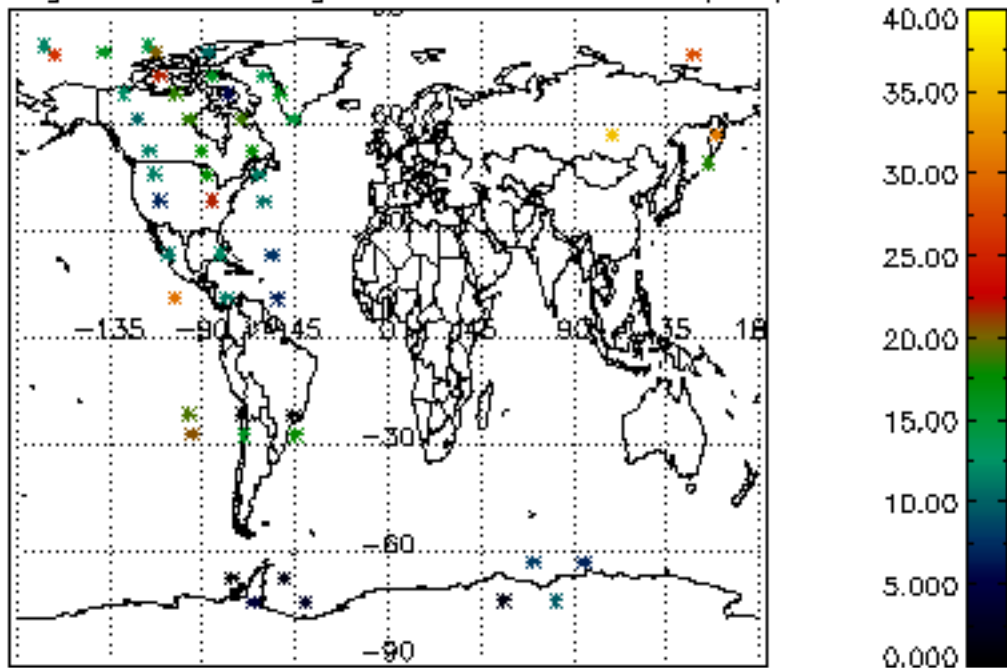
Percentage of cosmic ray hits per profile



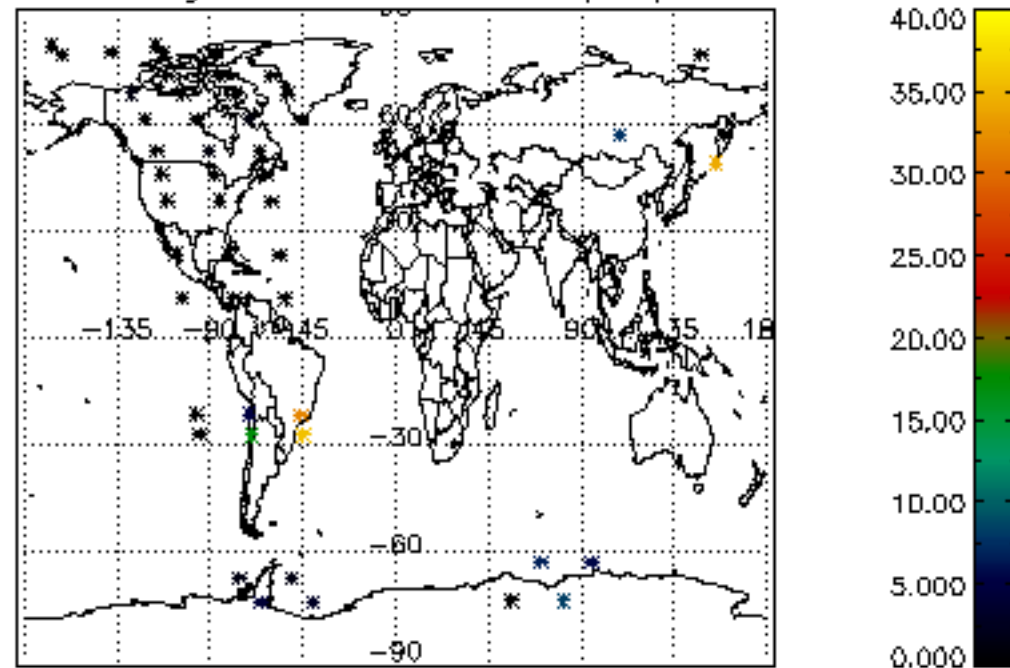
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

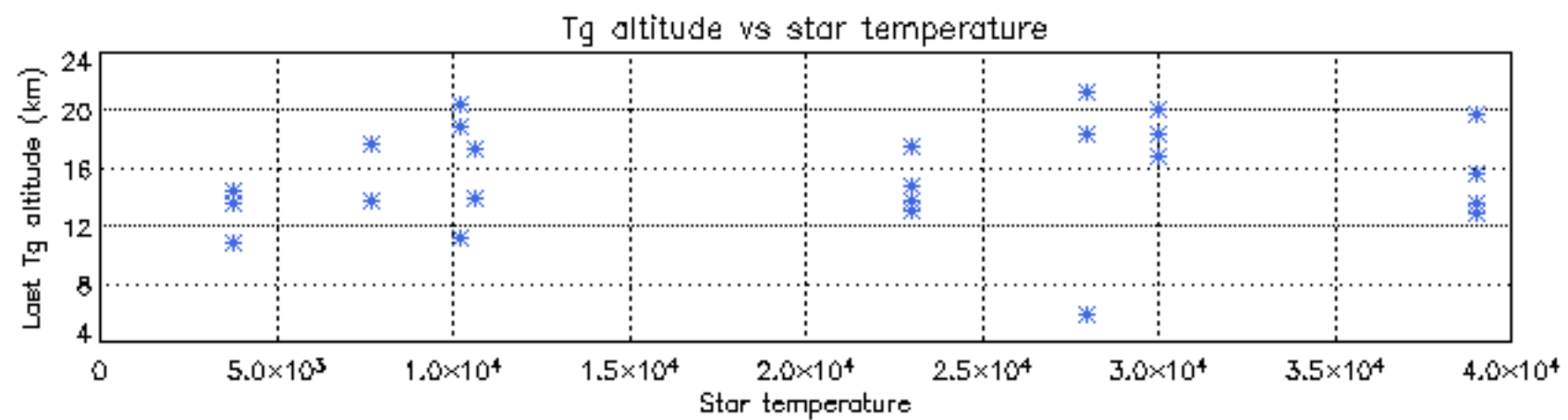
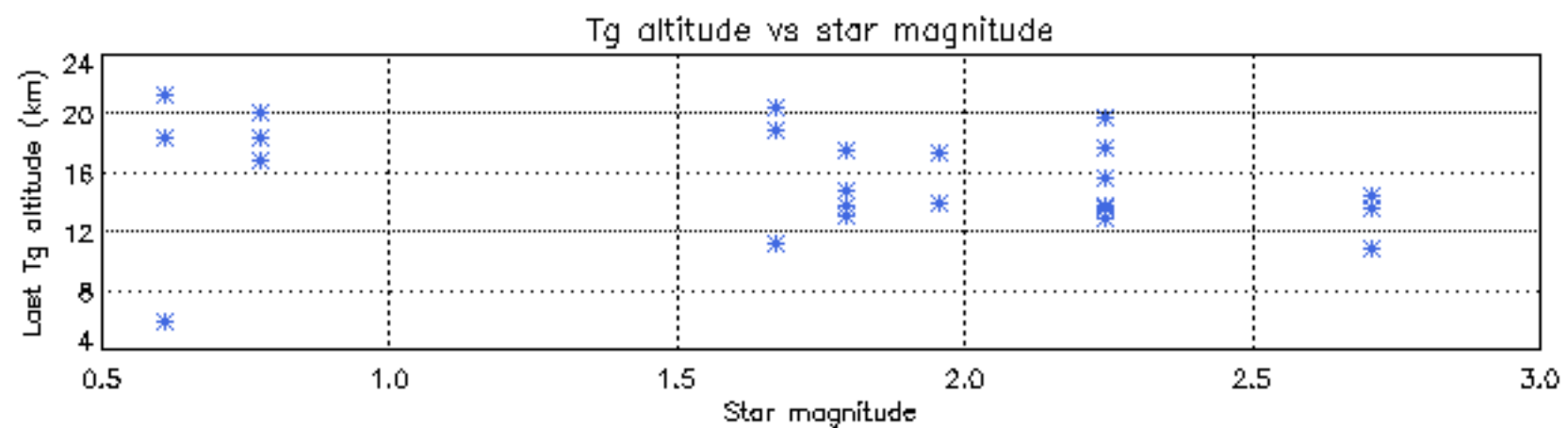
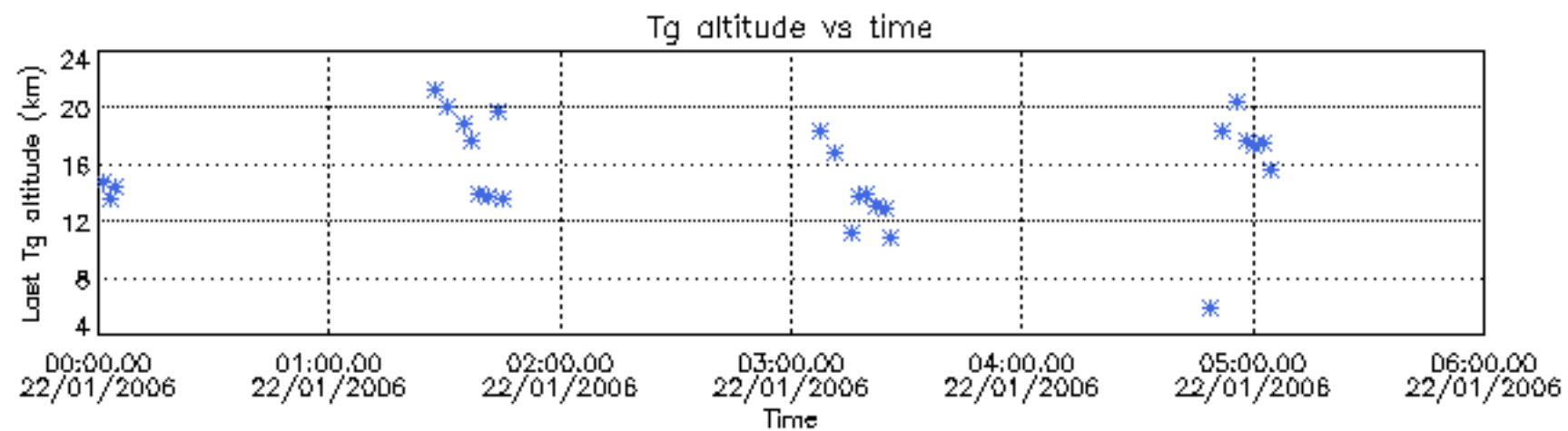


Percentage of saturation errors per profile

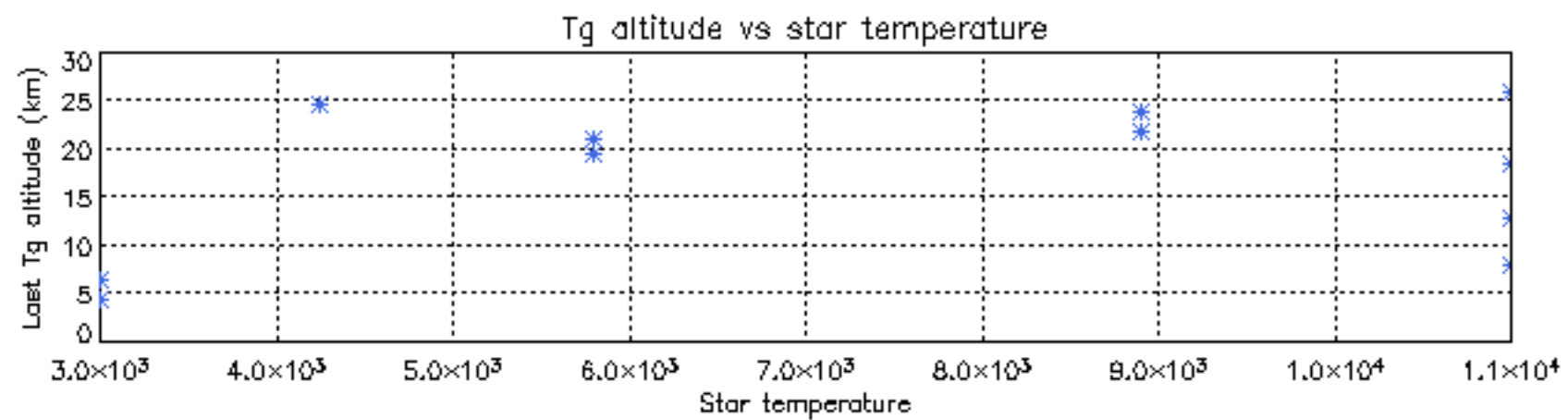
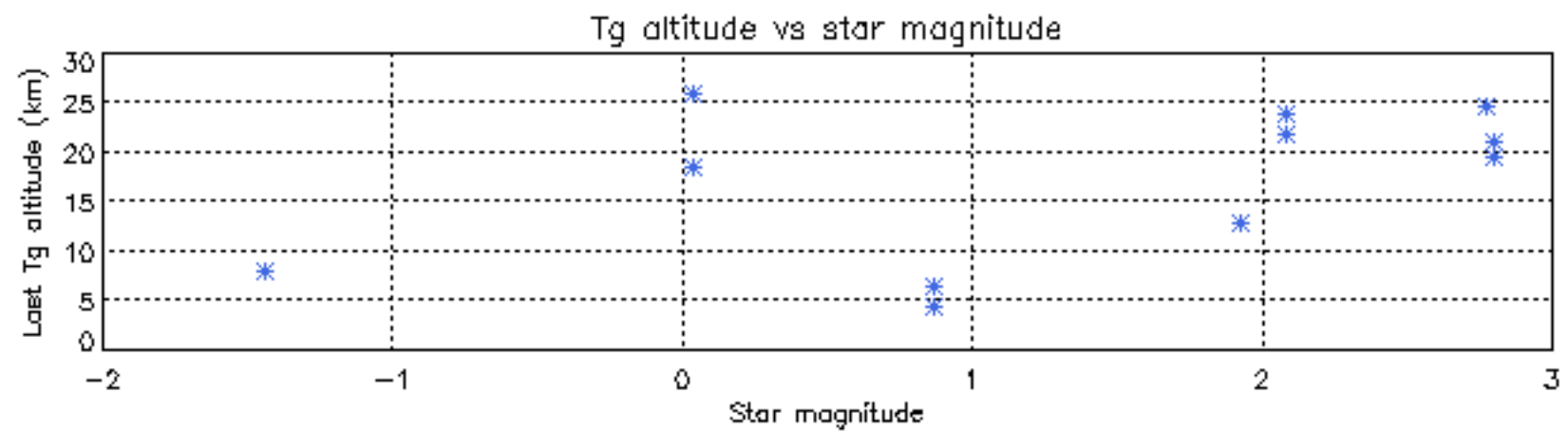
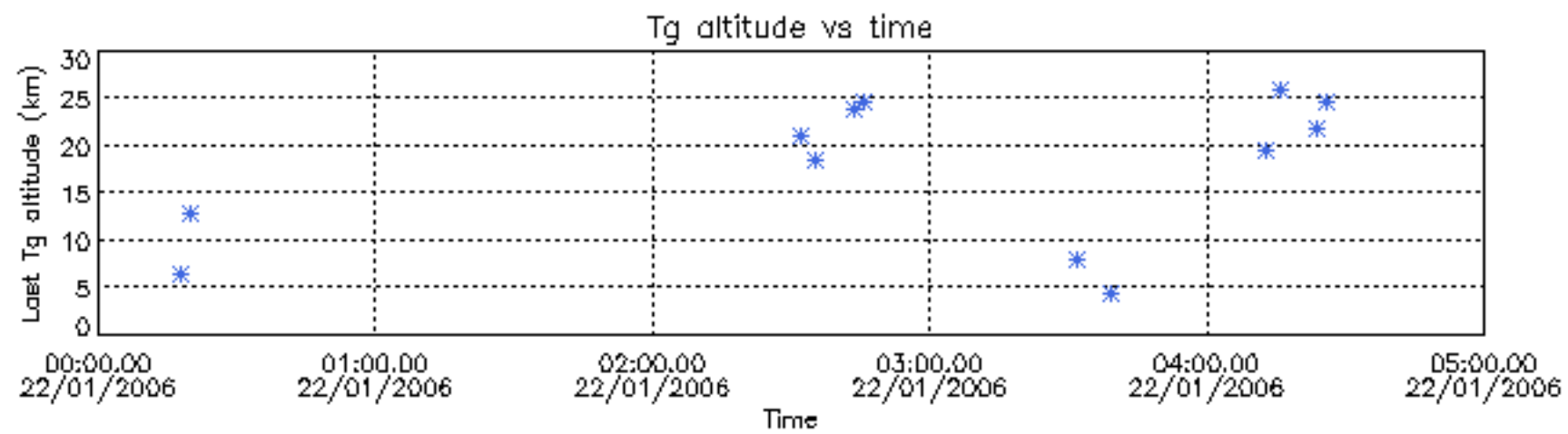




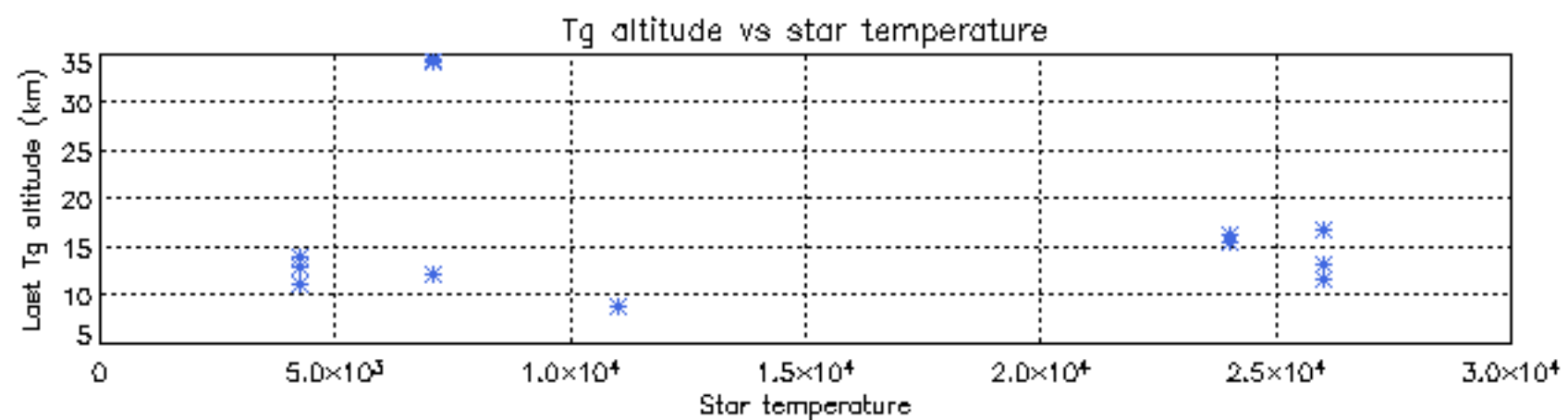
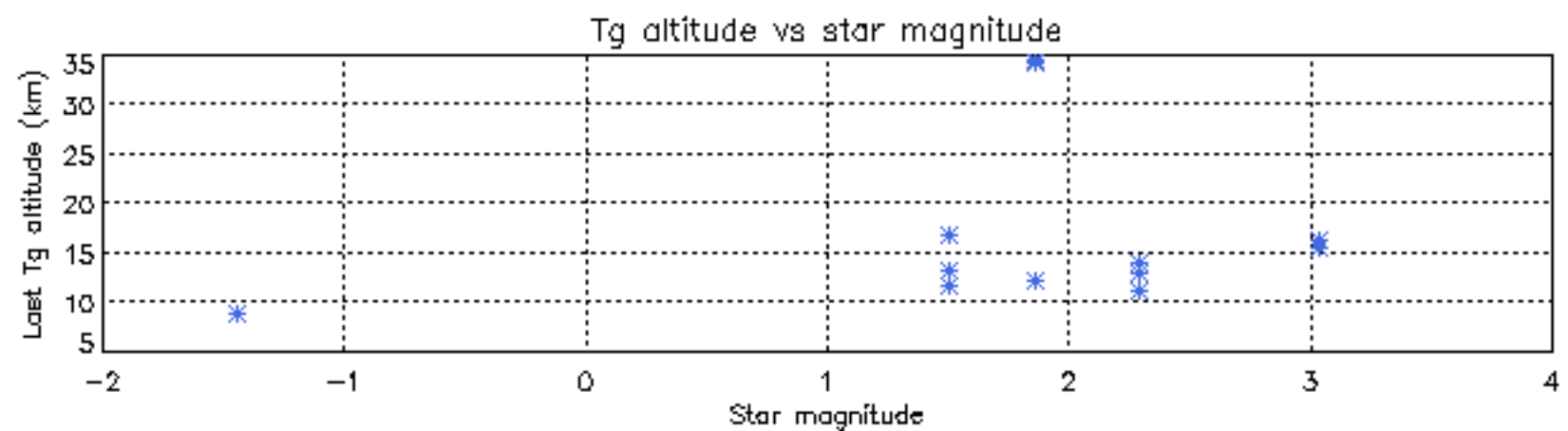
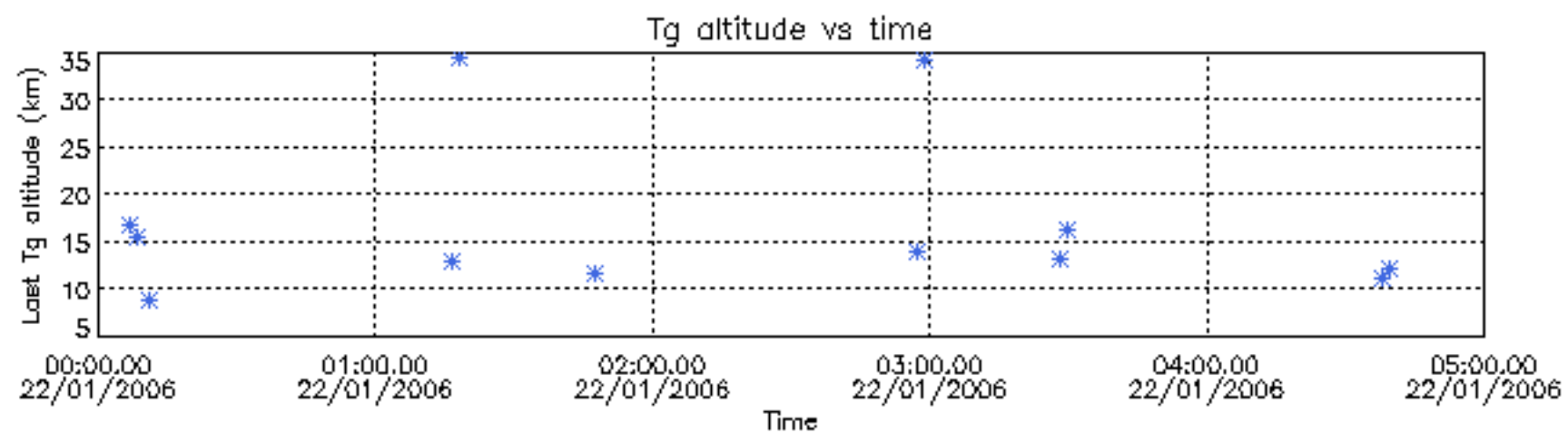
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 12;-2112.3; 03-JAN-2006 15:50:52; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;20105  
 13;-1980.6; 03-JAN-2006 15:53:04; Bright; 32.5; 130; 23Bet Dra ; 2.80; 5800;occ; 65; 0;20105  
 14;-1607.6; 03-JAN-2006 15:59:17; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;20105  
 15;-1430.4; 03-JAN-2006 16:02:14; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;20105  
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 27; 651.4; 03-JAN-2006 16:36:56; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;20106  
 28; 742.9; 03-JAN-2006 16:38:27; Dark ; 42.5; 41; Eps Car ; 1.86; 4100;occ; 85; 0;20106  
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 5;-3828.4; 03-JAN-2006 10:20:28; Bright; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;20102  
 6;-3639.8; 03-JAN-2006 10:23:37; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;20102  
 7;-3561.3; 03-JAN-2006 10:24:55; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;20102



8;-3414.4; 03-JAN-2006 10:27:22; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;20102  
9;-3276.4; 03-JAN-2006 10:29:40; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;20102  
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23; 248.9; 03-JAN-2006 13:09:01; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;20104  
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28; 988.8; 03-JAN-2006 13:21:21; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;20104  
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22; 2675.2; 12-JAN-2006 02:22:30; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;20226
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17; 4044.6; 12-JAN-2006 16:27:24; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;20234
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27; 5579.8; 12-JAN-2006 20:08:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20236
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2;	340.0;	14-JAN-2006	12:45:39;	Dark	;	48.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	97;	0;	20261
3;	489.1;	14-JAN-2006	12:48:09;	Dark	;	39.5;	56;	53Kap Ori	;	2.07;	30000;occ;	79;	0;	20261
4;	558.9;	14-JAN-2006	12:49:18;	Dark	;	37.5;	125;	44Tot Ori	;	2.77;	30000;occ;	75;	0;	20261
5;	636.6;	14-JAN-2006	12:50:36;	Dark	;	40.0;	30;	46Eps Ori	;	1.69;	30000;occ;	80;	0;	20261
6;	770.7;	14-JAN-2006	12:52:50;	Dark	;	46.0;	14;	58Alp Ori	;	0.87;	3000;occ;	92;	0;	20261
7;	1007.3;	14-JAN-2006	12:56:47;	Bright;	;	33.5;	176;	23Zet Tau	;	3.02;	22000;occ;	67;	0;	20261
8;	1136.1;	14-JAN-2006	12:58:56;	Bright;	;	35.0;	28;	12Bet Tau	;	1.65;	15200;occ;	70;	0;	20261
9;	1230.1;	14-JAN-2006	13:00:30;	Bright;	;	37.5;	114;	3Tot Aur	;	2.69;	4600;occ;	75;	0;	20261
10;	1405.6;	14-JAN-2006	13:03:25;	Bright;	;	36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	20261
11;	2158.1;	14-JAN-2006	13:15:58;	Bright;	;	34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	20261
12;	2808.5;	14-JAN-2006	13:26:48;	Bright;	;	35.5;	130;	23Bet Dra	;	2.80;	5800;occ;	71;	0;	20261
13;	3184.8;	14-JAN-2006	13:33:04;	Bright;	;	36.5;	133;	40Zet Her	;	2.81;	6000;occ;	73;	0;	20261
14;	3472.8;	14-JAN-2006	13:37:52;	Bright;	;	33.0;	59;	55Alp Oph	;	2.08;	8900;occ;	66;	0;	20261
15;	3825.6;	14-JAN-2006	13:43:45;	Bright;	;	38.0;	120;	1Del Oph	;	2.73;	3200;occ;	76;	0;	20261
16;	3908.4;	14-JAN-2006	13:45:08;	Bright;	;	53.0;	98;	13Zet Oph	;	2.57;	30000;occ;	106;	0;	20261
17;	4175.7;	14-JAN-2006	13:49:35;	Dark	;	53.0;	16;	21Alp Sco	;	1.02;	3000;occ;	106;	0;	20261
18;	4278.7;	14-JAN-2006	13:51:18;	Dark	;	40.5;	75;	26Eps Sco	;	2.29;	4250;occ;	81;	0;	20261
19;	4488.9;	14-JAN-2006	13:54:48;	Dark	;	38.0;	131;	Gam Lup	;	2.80;	26000;occ;	76;	0;	20261
20;	4592.4;	14-JAN-2006	13:56:32;	Dark	;	39.5;	109;	Bet Lup	;	2.68;	26000;occ;	79;	0;	20261
21;	4683.1;	14-JAN-2006	13:58:03;	Dark	;	39.0;	78;	Alp Lup	;	2.30;	28000;occ;	78;	0;	20261
22;	4783.6;	14-JAN-2006	13:59:43;	Dark	;	36.5;	134;	Bet TrA	;	2.81;	6600;occ;	73;	0;	20261
23;	4897.2;	14-JAN-2006	14:01:37;	Dark	;	40.0;	10;	Bet Cen	;	0.61;	28000;occ;	80;	0;	20261
24;	5044.4;	14-JAN-2006	14:04:04;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	20261
25;	5298.3;	14-JAN-2006	14:08:18;	Dark	;	38.0;	124;	The Car	;	2.76;	30000;occ;	76;	0;	20261
26;	5382.4;	14-JAN-2006	14:09:42;	Dark	;	37.0;	29;	Bet Car	;	1.67;	10200;occ;	74;	0;	20261
27;	5496.2;	14-JAN-2006	14:11:36;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	20261
28;	5572.1;	14-JAN-2006	14:12:52;	Dark	;	45.5;	41;	Eps Car	;	1.86;	4100;occ;	91;	0;	20261
29;	5790.8;	14-JAN-2006	14:16:30;	Dark	;	49.0;	2;	Alp Car	;	-0.74;	7000;occ;	98;	0;	20261
30;	6002.4;	14-JAN-2006	14:20:02;	Dark	;	41.5;	117;	Pi Pup	;	2.71;	3800;occ;	83;	0;	20261
31;	6156.5;	14-JAN-2006	14:22:36;	Dark	;	44.5;	23;	21Eps CMA	;	1.50;	26000;occ;	89;	0;	20261
32;	6242.0;	14-JAN-2006	14:24:02;	Dark	;	13.5;	179;	240mi2CMA	;	3.03;	24000;occ;	27;	0;	20261

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2;	362.0;	14-JAN-2006	14:24:02;	Dark	;	38.0;	179;	240mi2CMA	;	3.03;	24000;occ;	76;	0;	20262
3;	496.1;	14-JAN-2006	14:26:16;	Dark	;	46.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	92;	0;	20262
4;	645.1;	14-JAN-2006	14:28:45;	Dark	;	40.5;	56;	53Kap Ori	;	2.07;	30000;occ;	81;	0;	20262
5;	715.1;	14-JAN-2006	14:29:55;	Dark	;	38.0;	125;	44Tot Ori	;	2.77;	30000;occ;	76;	0;	20262
6;	792.8;	14-JAN-2006	14:31:12;	Dark	;	39.5;	30;	46Eps Ori	;	1.69;	30000;occ;	79;	0;	20262
7;	926.7;	14-JAN-2006	14:33:26;	Dark	;	46.0;	14;	58Alp Ori	;	0.87;	3000;occ;	92;	0;	20262
8;	1163.3;	14-JAN-2006	14:37:23;	Bright;	;	35.5;	176;	23Zet Tau	;	3.02;	22000;occ;	71;	0;	20262
9;	1292.2;	14-JAN-2006	14:39:32;	Bright;	;	37.5;	28;	12Bet Tau	;	1.65;	15200;occ;	75;	0;	20262
10;	1386.2;	14-JAN-2006	14:41:06;	Bright;	;	36.5;	114;	3Tot Aur	;	2.69;	4600;occ;	73;	0;	20262
11;	1561.6;	14-JAN-2006	14:44:01;	Bright;	;	35.0;	42;	34Bet Aur	;	1.90;	10200;occ;	70;	0;	20262
12;	2314.1;	14-JAN-2006	14:56:34;	Bright;	;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	20262
13;	2964.6;	14-JAN-2006	15:07:24;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	20262
14;	3340.8;	14-JAN-2006	15:13:40;	Bright;	;	35.0;	133;	40Zet Her	;	2.81;	6000;occ;	70;	0;	20262
15;	3629.0;	14-JAN-2006	15:18:28;	Bright;	;	33.0;	59;	55Alp Oph	;	2.08;	8900;occ;	66;	0;	20262
16;	3982.0;	14-JAN-2006	15:24:21;	Bright;	;	19.0;	120;	1Del Oph	;	2.73;	3200;occ;	38;	0;	20262
17;	4064.8;	14-JAN-2006	15:25:44;	Bright;	;	53.0;	98;	13Zet Oph	;	2.57;	30000;occ;	106;	0;	20262
18;	4332.1;	14-JAN-2006	15:30:12;	Dark	;	53.0;	16;	21Alp Sco	;	1.02;	3000;occ;	106;	0;	20262
19;	4434.9;	14-JAN-2006	15:31:54;	Dark	;	41.0;	75;	26Eps Sco	;	2.29;	4250;occ;	82;	0;	20262
20;	4645.4;	14-JAN-2006	15:35:25;	Dark	;	39.0;	131;	Gam Lup	;	2.80;	26000;occ;	78;	0;	20262
21;	4749.1;	14-JAN-2006	15:37:09;	Dark	;	37.0;	109;	Bet Lup	;	2.68;	26000;occ;	74;	0;	20262
22;	4839.6;	14-JAN-2006	15:38:39;	Dark	;	40.0;	78;	Alp Lup	;	2.30;	28000;occ;	80;	0;	20262
23;	4940.0;	14-JAN-2006	15:40:19;	Dark	;	37.0;	134;	Bet TrA	;	2.81;	6600;occ;	74;	0;	20262
24;	5053.6;	14-JAN-2006	15:42:13;	Dark	;	40.5;	10;	Bet Cen	;	0.61;	28000;occ;	81;	0;	20262
25;	5200.6;	14-JAN-2006	15:44:40;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	20262
26;	5454.7;	14-JAN-2006	15:48:54;	Dark	;	37.5;	124;	The Car	;	2.76;	30000;occ;	75;	0;	20262
27;	5538.7;	14-JAN-2006	15:50:18;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	20262
28;	5652.5;	14-JAN-2006	15:52:12;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	20262
29;	5728.4;	14-JAN-2006	15:53:28;	Dark	;	47.0;	41;	Eps Car	;	1.86;	4100;occ;	94;	0;	20262
30;	5946.9;	14-JAN-2006	15:57:06;	Dark	;	44.0;	2;	Alp Car	;	-0.74;	7000;occ;	88;	0;	20262
31;	6158.7;	14-JAN-2006	16:00:38;	Dark	;	40.5;	117;	Pi Pup	;	2.71;	3800;occ;	81;	0;	20262

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5; 681.2; 14-JAN-2006 16:09:21; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;20263
6; 751.3; 14-JAN-2006 16:10:31; Dark ; 38.5; 125; 44Iot Ori ; 2.77; 30000;occ; 77; 0;20263
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8; 962.7; 14-JAN-2006 16:14:02; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;20263
9; 1199.2; 14-JAN-2006 16:17:59; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;20263
10; 1328.3; 14-JAN-2006 16:20:08; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;20263
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13; 2350.0; 14-JAN-2006 16:37:09; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;20263
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15; 3376.9; 14-JAN-2006 16:54:16; Bright; 54.0; 133; 40Zet Her ; 2.81; 6000;occ; 108; 0;20263
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17; 4018.4; 14-JAN-2006 17:04:58; Bright; 19.0; 120; 1Del Oph ; 2.73; 3200;occ; 38; 0;20263
18; 4101.1; 14-JAN-2006 17:06:21; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;20263
19; 4368.4; 14-JAN-2006 17:10:48; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;20263
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21; 4681.8; 14-JAN-2006 17:16:01; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;20263
22; 4785.6; 14-JAN-2006 17:17:45; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;20263
23; 4876.3; 14-JAN-2006 17:19:16; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;20263
24; 4976.1; 14-JAN-2006 17:20:56; Dark ; 36.0; 134; Bet TrA ; 2.81; 6600;occ; 72; 0;20263
25; 5090.2; 14-JAN-2006 17:22:50; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;20263
26; 5236.9; 14-JAN-2006 17:25:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20263
27; 5491.2; 14-JAN-2006 17:29:31; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;20263
28; 5575.0; 14-JAN-2006 17:30:55; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;20263
29; 5688.9; 14-JAN-2006 17:32:48; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;20263
30; 5764.8; 14-JAN-2006 17:34:04; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 0;20263
31; 5983.1; 14-JAN-2006 17:37:43; Dark ; 39.0; 2; Alp Car ; -0.74; 7000;occ; 78; 0;20263
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3; 648.8; 14-JAN-2006 17:43:48; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;20264
4; 734.3; 14-JAN-2006 17:45:14; Dark ; 39.5; 179; 240mi2CMA ; 3.03; 24000;occ; 79; 0;20264
5; 868.3; 14-JAN-2006 17:47:28; Dark ; 47.0; 1; 9Alp CMA ; -1.44; 11000;occ; 94; 0;20264
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8; 1165.0; 14-JAN-2006 17:52:25; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;20264
9; 1298.8; 14-JAN-2006 17:54:38; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;20264
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13; 1933.4; 14-JAN-2006 18:05:13; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;20264
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16; 3713.1; 14-JAN-2006 18:34:53; Bright; 42.5; 133; 40Zet Her ; 2.81; 6000;occ; 85; 0;20264
17; 4001.2; 14-JAN-2006 18:39:41; Bright; 33.5; 59; 55Alp Oph ; 2.08; 8900;occ; 67; 0;20264
18; 4437.4; 14-JAN-2006 18:46:57; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;20264
19; 4704.7; 14-JAN-2006 18:51:24; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;20264
20; 4807.4; 14-JAN-2006 18:53:07; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;20264
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22; 5122.3; 14-JAN-2006 18:58:22; Dark ; 29.0; 109; Bet Lup ; 2.68; 26000;occ; 58; 0;20264
23; 5212.9; 14-JAN-2006 18:59:52; Dark ; 41.5; 78; Alp Lup ; 2.30; 28000;occ; 83; 0;20264
24; 5312.3; 14-JAN-2006 19:01:32; Dark ; 36.0; 134; Bet TrA ; 2.81; 6600;occ; 72; 0;20264
25; 5426.6; 14-JAN-2006 19:03:26; Dark ; 47.0; 10; Bet Cen ; 0.61; 28000;occ; 94; 0;20264
26; 5573.1; 14-JAN-2006 19:05:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20264
27; 5827.8; 14-JAN-2006 19:10:07; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;20264
28; 5911.2; 14-JAN-2006 19:11:31; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;20264
29; 6025.4; 14-JAN-2006 19:13:25; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;20264
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3; 745.0; 14-JAN-2006 19:24:25; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;20265
4; 830.6; 14-JAN-2006 19:25:50; Dark ; 40.5; 179; 240mi2CMA ; 3.03; 24000;occ; 81; 0;20265
5; 964.4; 14-JAN-2006 19:28:04; Dark ; 44.0; 1; 9Alp CMA ; -1.44; 11000;occ; 88; 0;20265
6; 1113.5; 14-JAN-2006 19:30:33; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;20265
7; 1183.6; 14-JAN-2006 19:31:43; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;20265

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12; 1854.8; 14-JAN-2006 19:42:54; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;20265  
13; 2029.3; 14-JAN-2006 19:45:49; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;20265  
14; 2782.0; 14-JAN-2006 19:58:21; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;20265  
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16; 3809.0; 14-JAN-2006 20:15:29; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;20265  
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17; 1832.5; 16-JAN-2006 21:49:46; Dark ; 39.0; 125; 44Iot Ori ; 2.77; 30000;occ; 78; 0;20295
18; 1909.8; 16-JAN-2006 21:51:04; Dark ; 38.5; 30; 46Eps Ori ; 1.69; 30000;occ; 77; 0;20295
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 23; 6909.8; 20-JAN-2006 12:44:56; Dark ; 45.5; 46; Del Vel ; 1.95; 10600;occ; 91; 0;20346  
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23; 2687.3; 29-JAN-2006 21:55:25; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;20481
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8;	6371.5;	29-JAN-2006	22:56:50;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	20481
9;	6490.6;	29-JAN-2006	22:58:49;	Dark	;	46.0;	12;	Alp1Cru	;	0.77;	30000;occ;	92;	0;	20481
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16;	7465.1;	29-JAN-2006	23:15:03;	Dark	;	39.0;	23;	21Eps CMA	;	1.50;	26000;occ;	78;	0;	20481
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22;	9463.4;	29-JAN-2006	23:48:21;	Bright;	;	32.5;	49;	1Alp UMi	;	1.99;	6300;occ;	65;	0;	20481
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14; -724.9; 31-JAN-2006 13:12:55; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;20504
15; -560.4; 31-JAN-2006 13:15:40; Dark ; 40.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 81; 0;20504
16; -420.6; 31-JAN-2006 13:18:00; Dark ; 37.0; 25; 35Lam Sco ; 1.62; 28000;occ; 74; 0;20504
17; -332.0; 31-JAN-2006 13:19:28; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;20504
18; -218.8; 31-JAN-2006 13:21:21; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;20504
19; -125.2; 31-JAN-2006 13:22:55; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;20504
20; 107.3; 31-JAN-2006 13:26:48; Dark ; 38.0; 43; Alp TrA ; 1.91; 4250;occ; 76; 0;20505
21; 191.7; 31-JAN-2006 13:28:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;20505
22; 342.1; 31-JAN-2006 13:30:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20505
23; 467.3; 31-JAN-2006 13:32:48; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;20505
24; 681.1; 31-JAN-2006 13:36:21; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;20505
25; 822.1; 31-JAN-2006 13:38:42; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;20505
26; 927.1; 31-JAN-2006 13:40:27; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;20505
27; 1078.9; 31-JAN-2006 13:42:59; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;20505
28; 1204.2; 31-JAN-2006 13:45:04; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;20505
29; 1287.1; 31-JAN-2006 13:46:27; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;20505
30; 1433.3; 31-JAN-2006 13:48:54; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;20505
31; 1516.1; 31-JAN-2006 13:50:16; Dark ; 38.5; 179; 240mi2CMA ; 3.03; 24000;occ; 77; 0;20505

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