

# GOMOS Daily Report 23-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	25APR2006 04:39:07

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (23APR2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (24APR2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	33
Nb of prods with errors	0

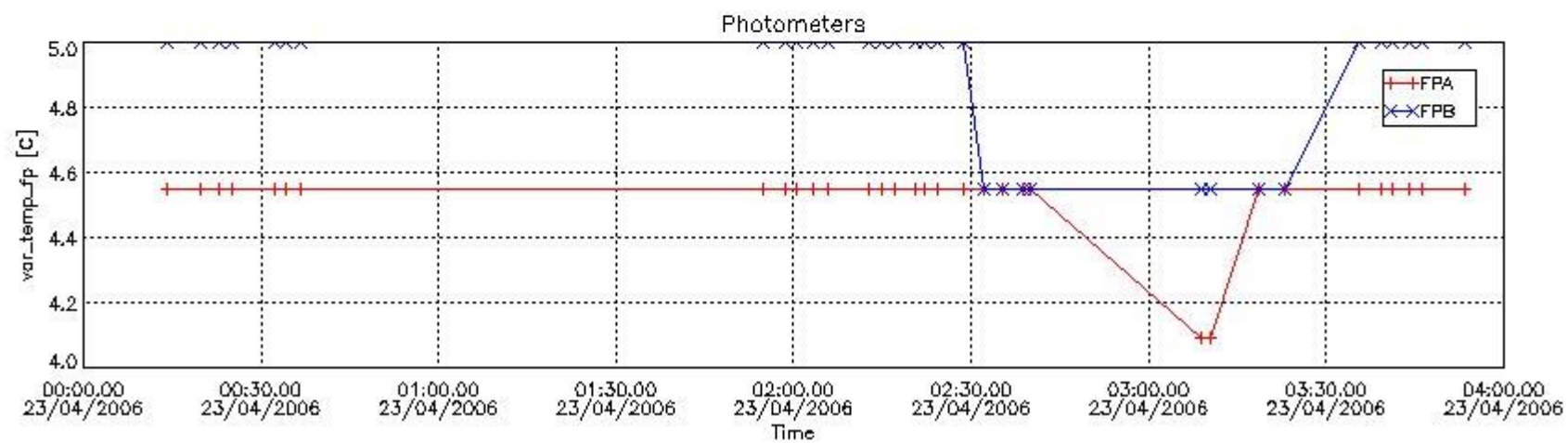
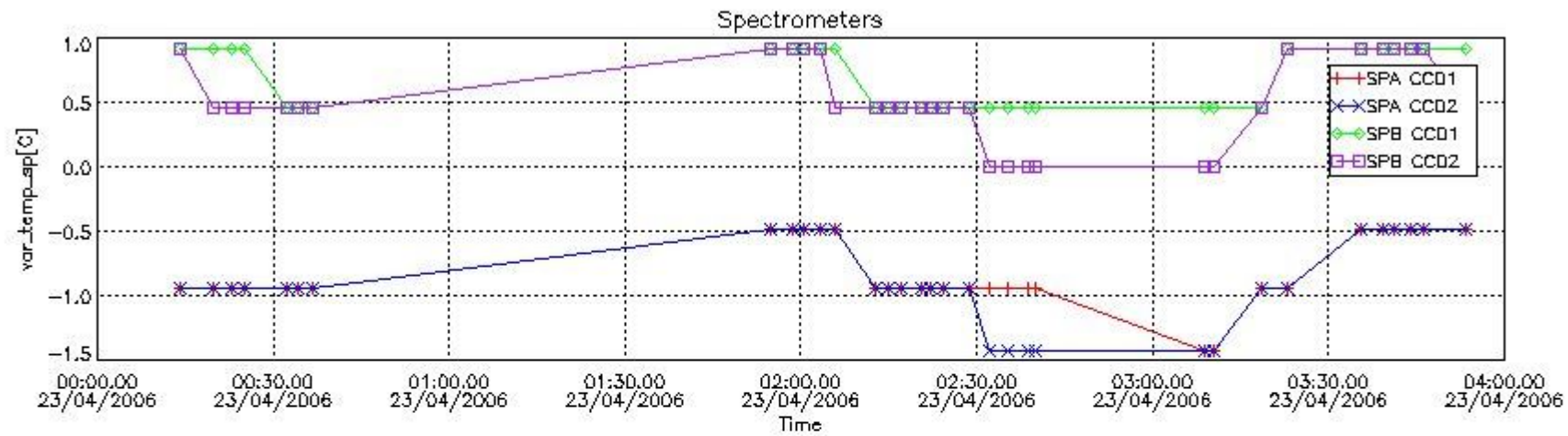
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20060423_001413_000000422047_00073_21670_0000.N1	23-APR-2006 00:14:13	Dark	42.000	18	24Alp PsA	1.1660	9700.0	84	21670	No
2	GOM_TRA_1PNPDE20060423_001950_000000392047_00073_21670_0001.N1	23-APR-2006 00:19:50	Dark	38.500	31	Alp Gru	1.7340	15200.	77	21670	No
3	GOM_TRA_1PNPDE20060423_002248_000000402047_00073_21670_0002.N1	23-APR-2006 00:22:48	Dark	39.500	148	Alp Tuc	2.8780	4100.0	79	21670	No
4	GOM_TRA_1PNPDE20060423_002504_000000402047_00074_21671_0003.N1	23-APR-2006 00:25:04	Dark	39.500	45	Alp Pav	1.9400	26000.	79	21671	No
5	GOM_TRA_1PNPDE20060423_003209_000000422047_00074_21671_0004.N1	23-APR-2006 00:32:09	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	21671	No
6	GOM_TRA_1PNPDE20060423_003419_000000392047_00074_21671_0005.N1	23-APR-2006 00:34:19	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	21671	No
7	GOM_TRA_1PNPDE20060423_003634_000000532047_00074_21671_0006.N1	23-APR-2006 00:36:34	Twilight	52.500	4	Alp1Cen	-0.010000	5800.0	105	21671	No
8	GOM_TRA_1PNPDE20060423_015449_000000432047_00074_21671_0000.N1	23-APR-2006 01:54:49	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	21671	No
9	GOM_TRA_1PNPDE20060423_015836_000000402047_00074_21671_0001.N1	23-APR-2006 01:58:36	Dark	40.000	172	Gam Gru	3.0030	13100.	80	21671	No
10	GOM_TRA_1PNPDE20060423_020026_000000382047_00074_21671_0002.N1	23-APR-2006 02:00:26	Dark	38.000	31	Alp Gru	1.7340	15200.	76	21671	No
11	GOM_TRA_1PNPDE20060423_020324_000000402047_00074_21671_0003.N1	23-APR-2006 02:03:24	Dark	39.500	148	Alp Tuc	2.8780	4100.0	79	21671	No
12	GOM_TRA_1PNPDE20060423_020541_000000392047_00075_21672_0004.N1	23-APR-2006 02:05:41	Dark	39.000	45	Alp Pav	1.9400	26000.	78	21672	No
13	GOM_TRA_1PNPDE20060423_021246_000000432047_00075_21672_0005.N1	23-APR-2006 02:12:46	Dark	43.000	43	Alp TrA	1.9100	4250.0	86	21672	No
14	GOM_TRA_1PNPDE20060423_021455_000000392047_00075_21672_0006.N1	23-APR-2006 02:14:55	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	21672	No
15	GOM_TRA_1PNPDE20060423_021710_000000502047_00075_21672_0007.N1	23-APR-2006 02:17:10	Twilight	49.500	4	Alp1Cen	-0.010000	5800.0	99	21672	No
16	GOM_TRA_1PNPDE20060423_022028_000000412047_00075_21672_0008.N1	23-APR-2006 02:20:28	Twilight	40.500	78	Alp Lup	2.3040	28000.	81	21672	No
17	GOM_TRA_1PNPDE20060423_022203_000000422047_00075_21672_0009.N1	23-APR-2006 02:22:03	Bright	41.500	81	Eta Cen	2.3560	28000.	83	21672	No
18	GOM_TRA_1PNPDE20060423_022416_000000452047_00075_21672_0010.N1	23-APR-2006 02:24:16	Bright	45.000	54	5The Cen	2.0550	4500.0	90	21672	No
19	GOM_TRA_1PNPDE20060423_022844_000000422047_00075_21672_0011.N1	23-APR-2006 02:28:44	Bright	41.500	169	46Gam Hya	2.9910	4700.0	83	21672	No
20	GOM_TRA_1PNPDE20060423_023212_000000412047_00075_21672_0012.N1	23-APR-2006 02:32:12	Bright	40.500	15	67Alp Vir	0.97600	28000.	81	21672	No
21	GOM_TRA_1PNPDE20060423_023514_000000362047_00075_21672_0013.N1	23-APR-2006 02:35:14	Bright	35.500	121	29Gam Vir	2.7400	7200.0	71	21672	No
22	GOM_TRA_1PNPDE20060423_023845_000000372047_00075_21672_0014.N1	23-APR-2006 02:38:45	Bright	37.000	138	47Eps Vir	2.8280	4700.0	74	21672	No
23	GOM_TRA_1PNPDE20060423_024006_000000352047_00075_21672_0015.N1	23-APR-2006 02:40:06	Bright	35.000	62	94Bet Leo	2.1360	9700.0	70	21672	No
24	GOM_TRA_1PNPDE20060423_030900_000000342047_00075_21672_0000.N1	23-APR-2006 03:09:00	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	21672	No
25	GOM_TRA_1PNPDE20060423_031018_000000362047_00075_21672_0001.N1	23-APR-2006 03:10:18	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	21672	No
26	GOM_TRA_1PNPDE20060423_031842_000000312047_00075_21672_0002.N1	23-APR-2006 03:18:42	Twilight	31.000	164	44Eta Peg	2.9480	5400.0	62	21672	No
27	GOM_TRA_1PNPDE20060423_032253_000000422047_00075_21672_0003.N1	23-APR-2006 03:22:53	Twilight	42.000	90	54Alp Peg	2.4870	11000.	84	21672	No
28	GOM_TRA_1PNPDE20060423_033526_000000452047_00075_21672_0004.N1	23-APR-2006 03:35:26	Dark	44.500	18	24Alp PsA	1.1660	9700.0	89	21672	No
29	GOM_TRA_1PNPDE20060423_033913_000000402047_00075_21672_0005.N1	23-APR-2006 03:39:13	Dark	39.500	172	Gam Gru	3.0030	13100.	79	21672	No
30	GOM_TRA_1PNPDE20060423_034103_000000412047_00075_21672_0006.N1	23-APR-2006 03:41:03	Dark	40.500	31	Alp Gru	1.7340	15200.	81	21672	No
31	GOM_TRA_1PNPDE20060423_034401_000000412047_00075_21672_0007.N1	23-APR-2006 03:44:01	Dark	41.000	148	Alp Tuc	2.8780	4100.0	82	21672	No
32	GOM_TRA_1PNPDE20060423_034618_000000442047_00076_21673_0008.N1	23-APR-2006 03:46:18	Dark	43.500	45	Alp Pav	1.9400	26000.	87	21673	No
33	GOM_TRA_1PNPDE20060423_035322_000000402047_00076_21673_0009.N1	23-APR-2006 03:53:22	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	21673	No

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



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

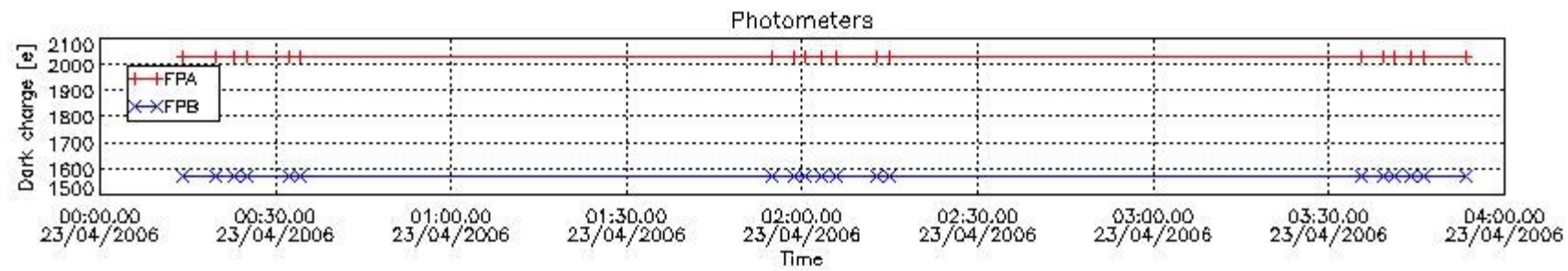
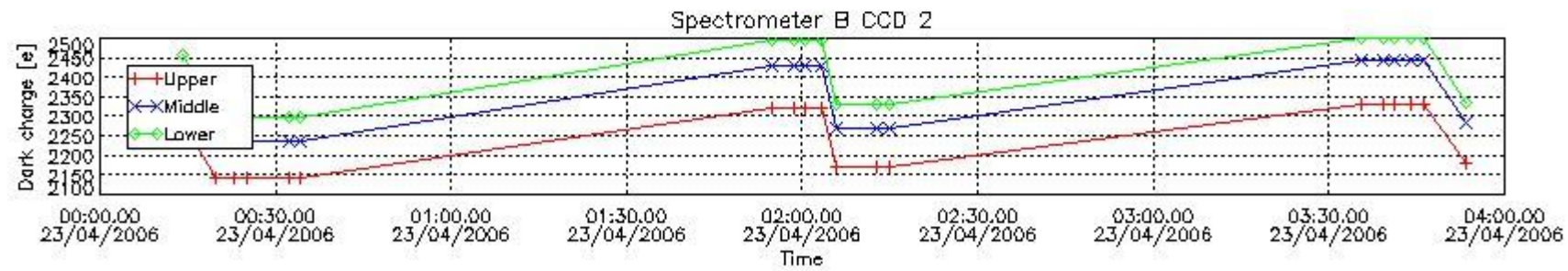
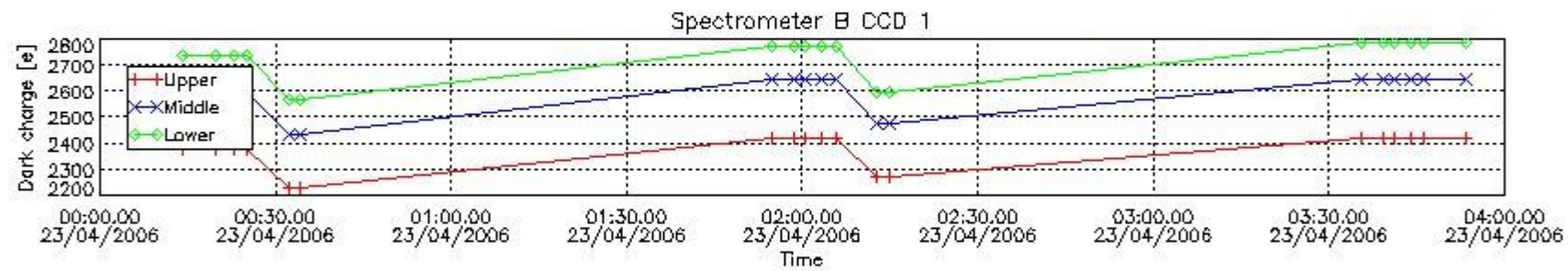
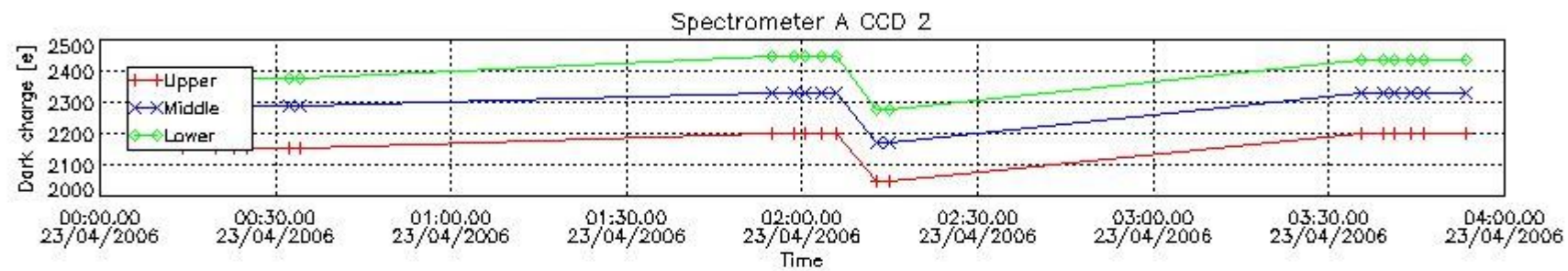
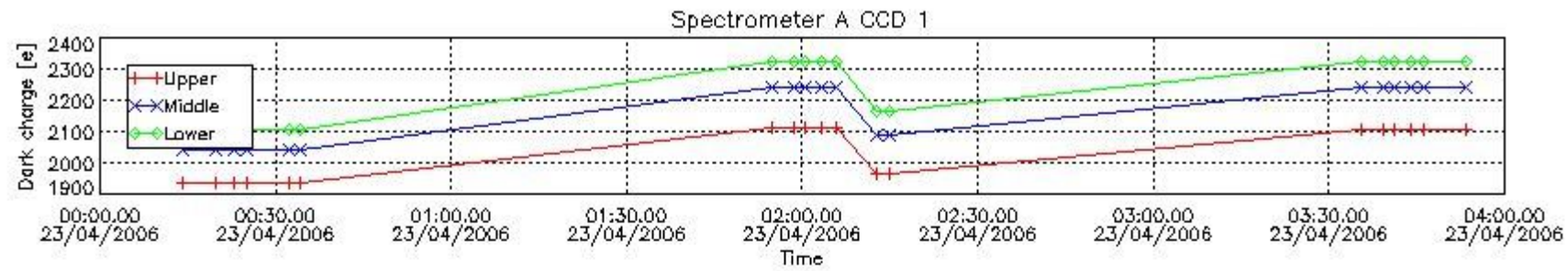
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





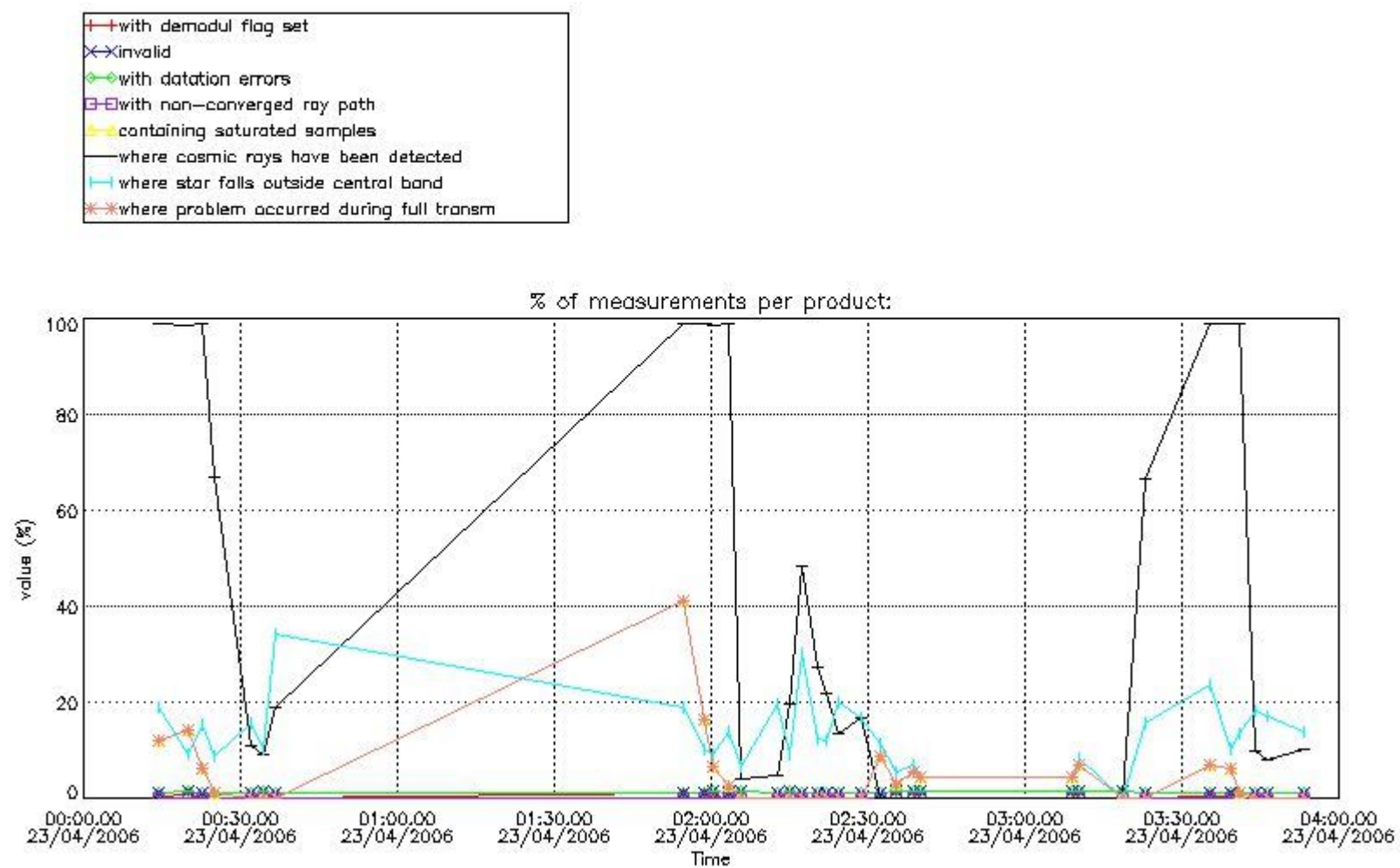
## 5. Demodulation flag and quality information monitoring

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:

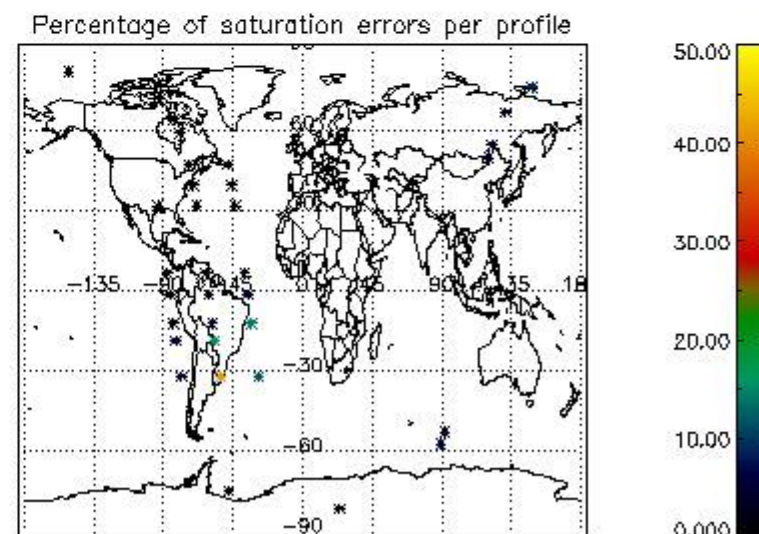
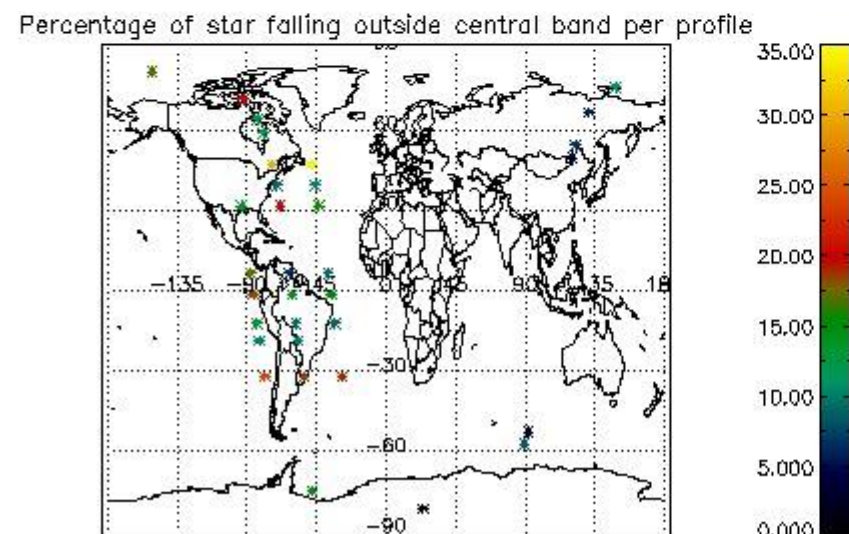
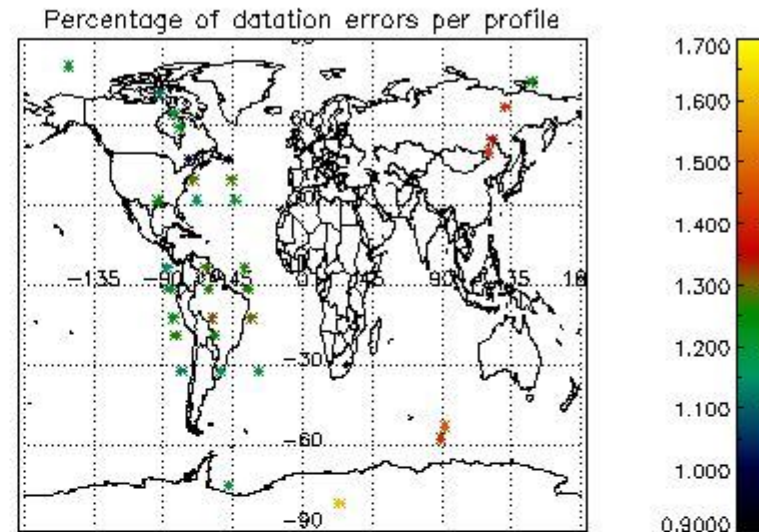
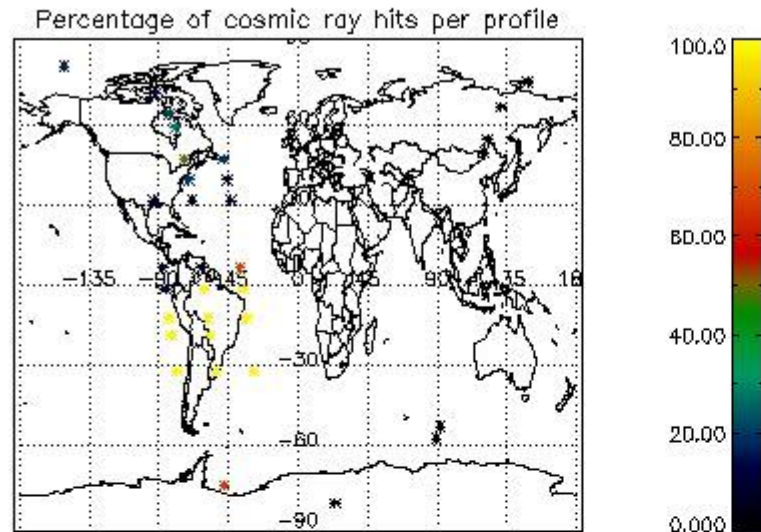
At least one measurement with demodulation flag set:	36.3636 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





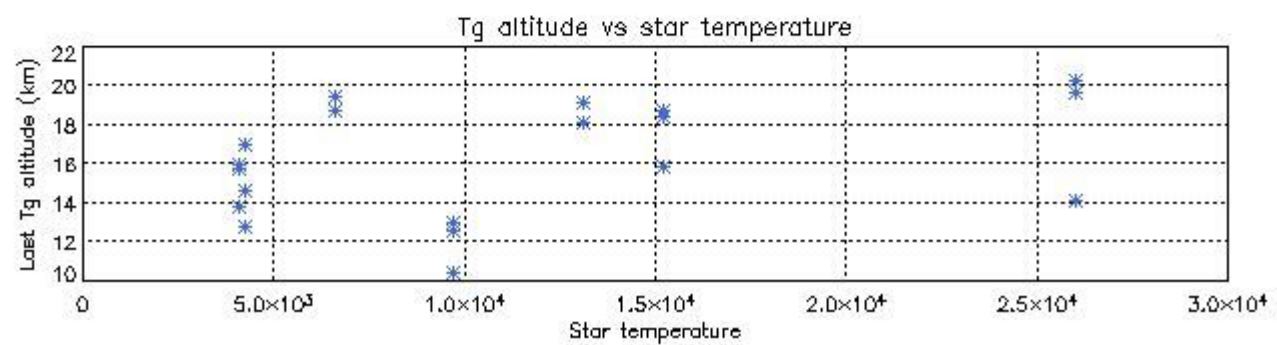
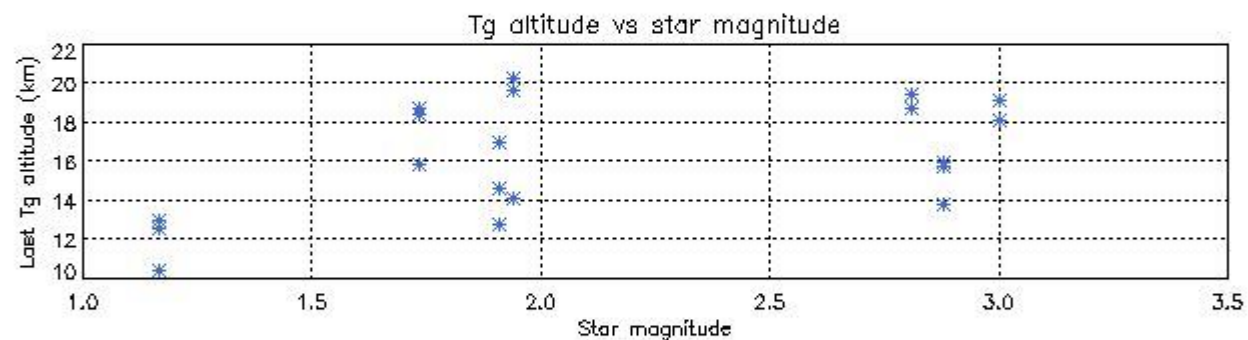
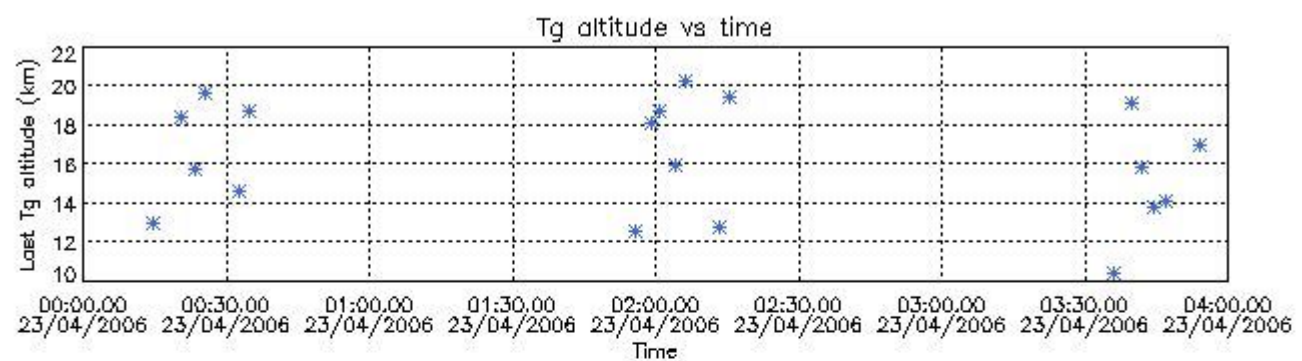
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.217	18.433	16.067
St. deviation:	2.9020	3.9253	14.309
Maximum:	20.274	23.871	39.697
Minimum:	10.400	12.437	3.8517
Number of data:	19.000	9.0000	5.0000

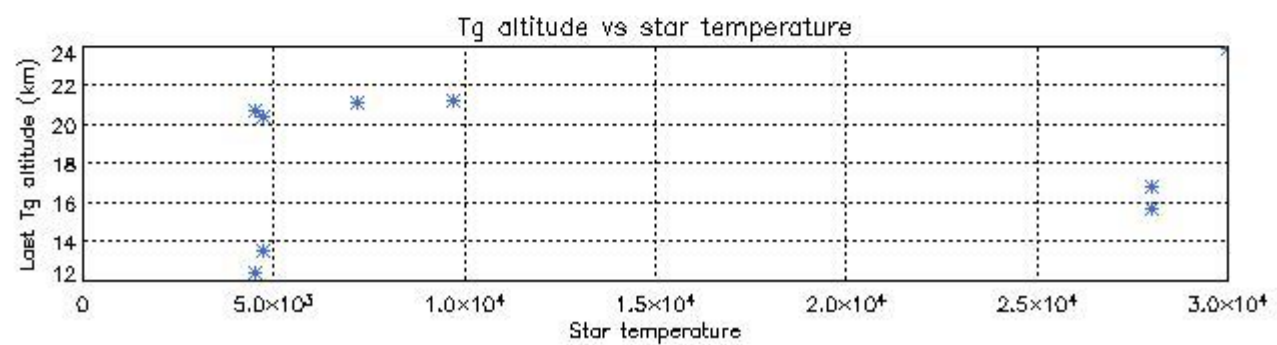
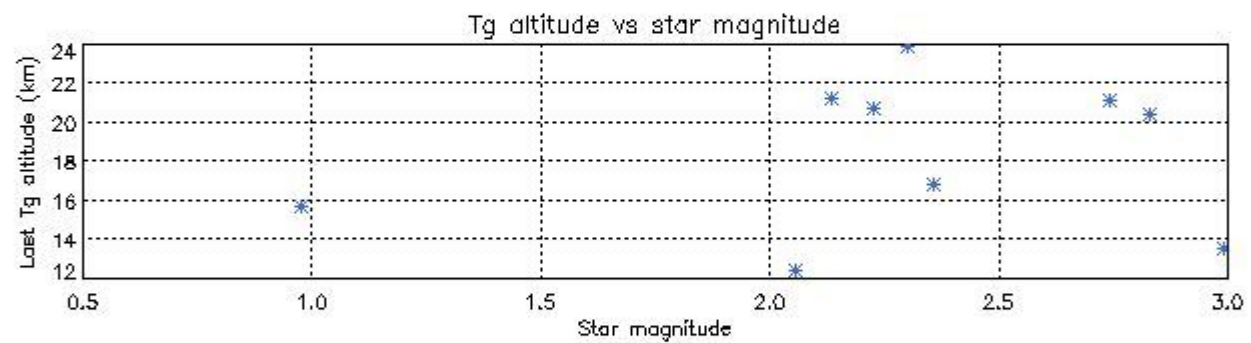
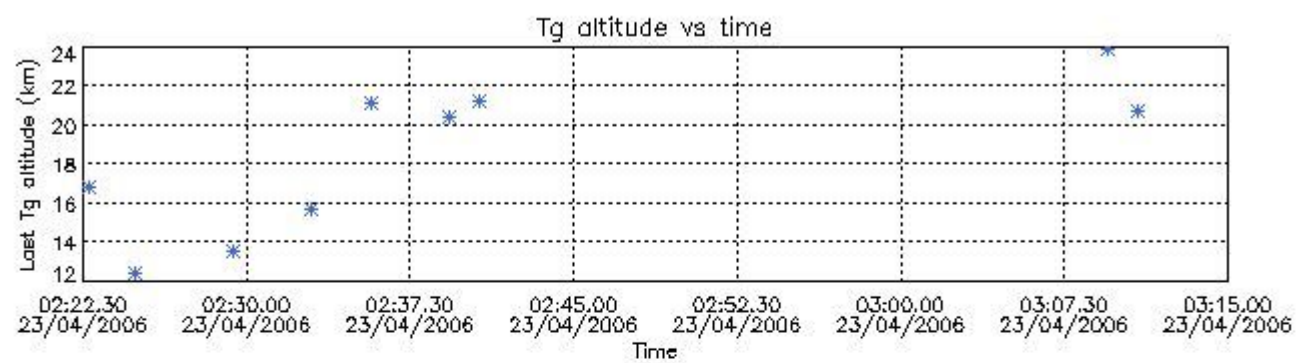
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

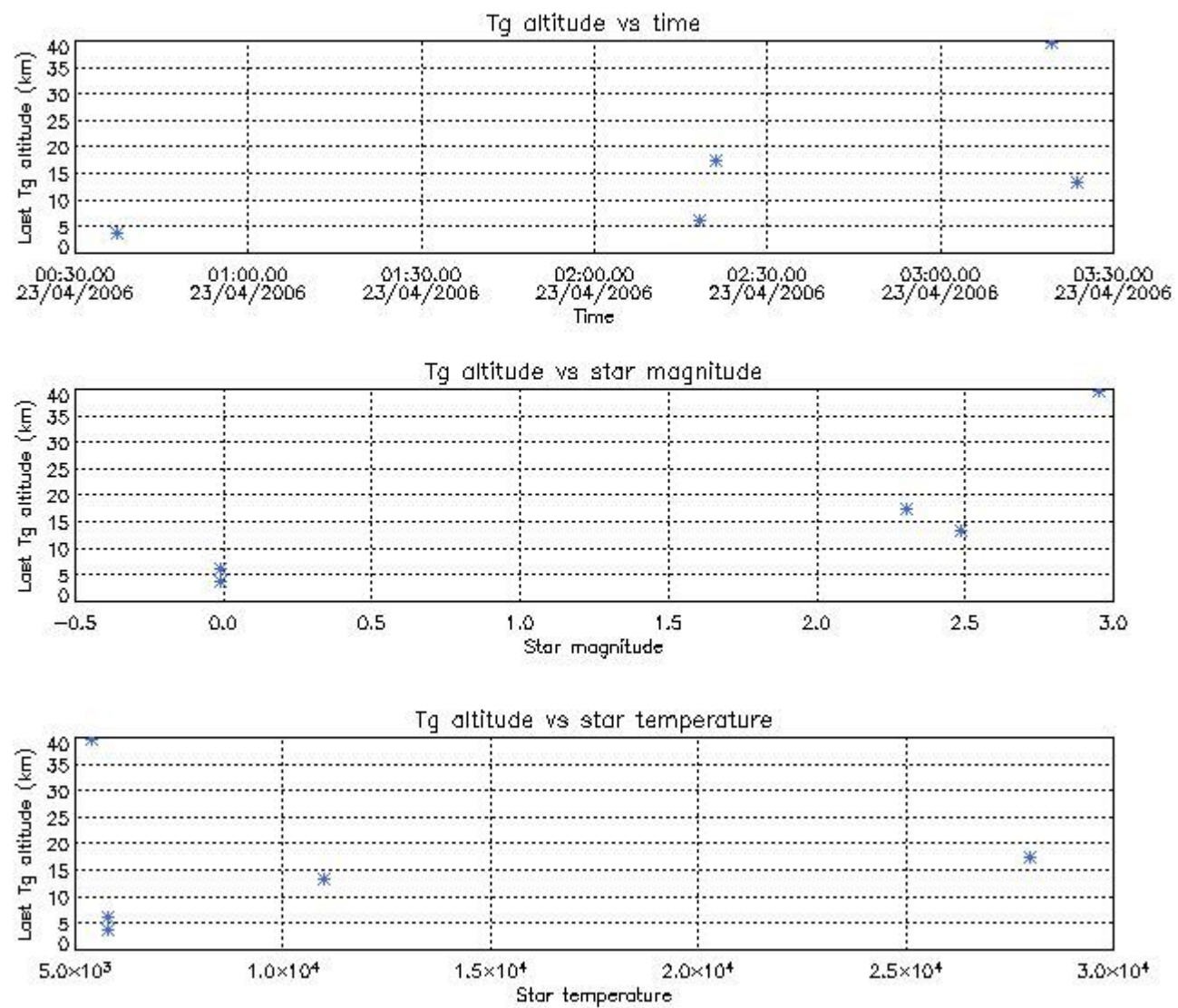
Tangent altitude at which the star is lost



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

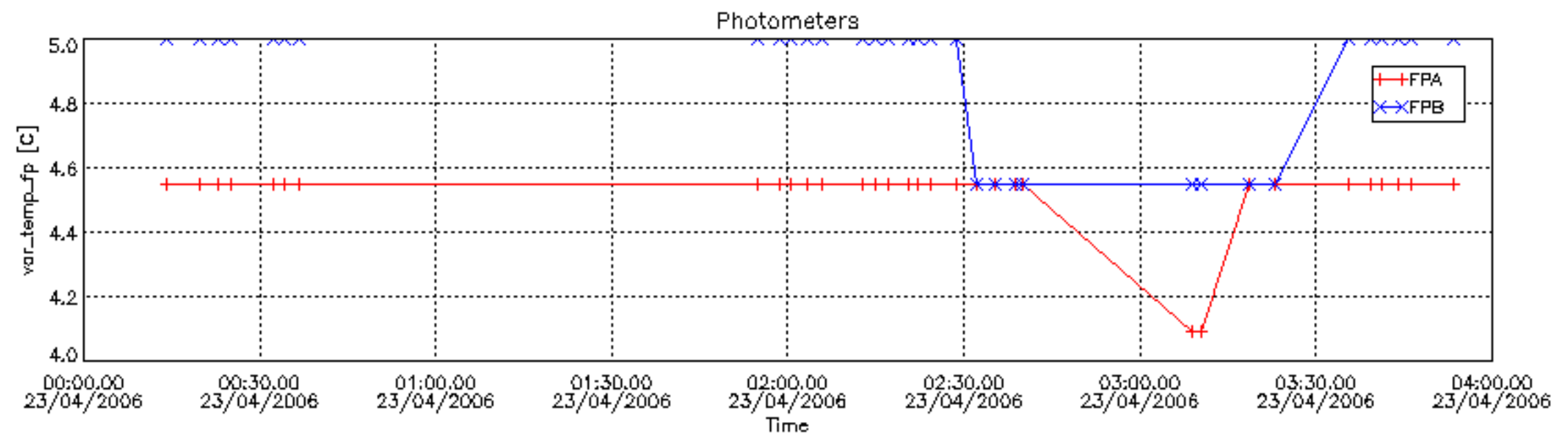
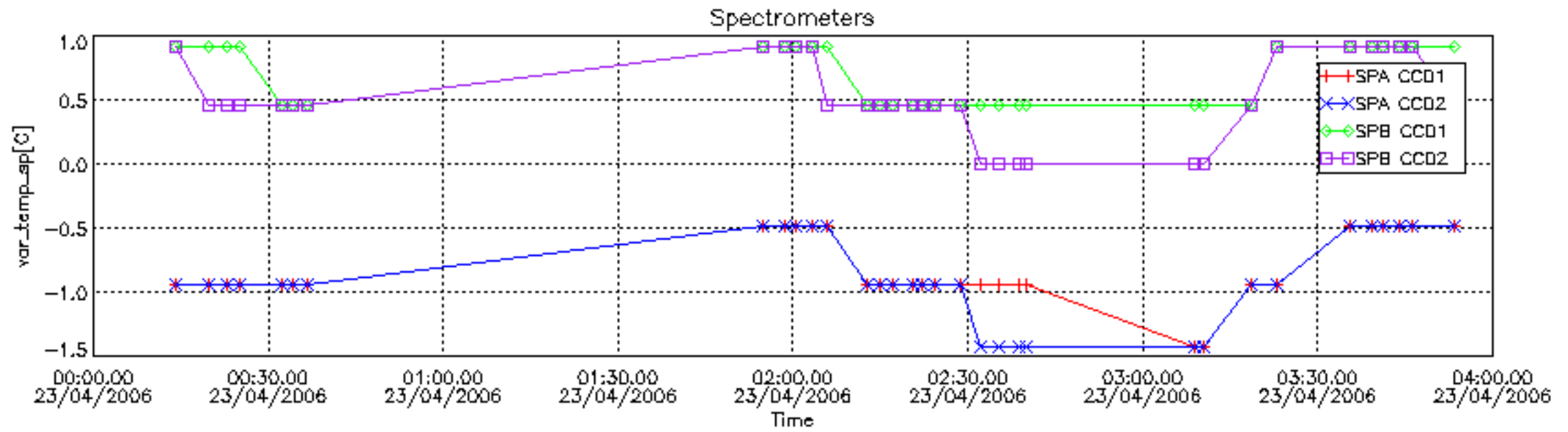
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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.

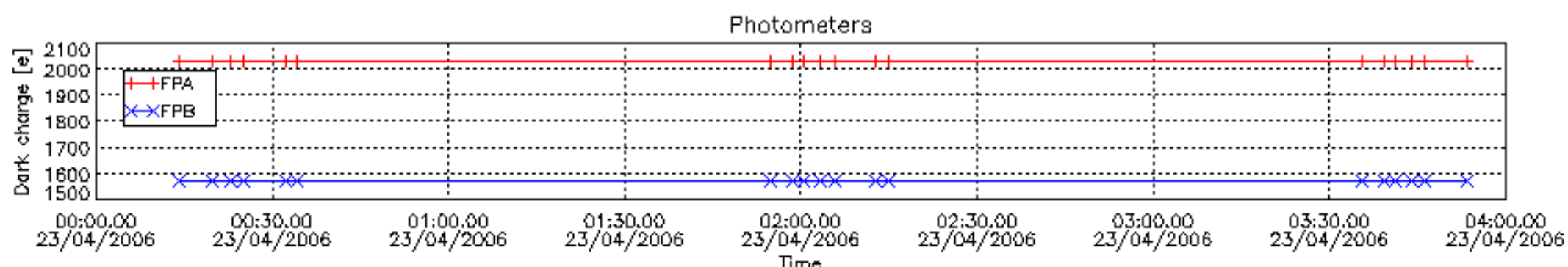
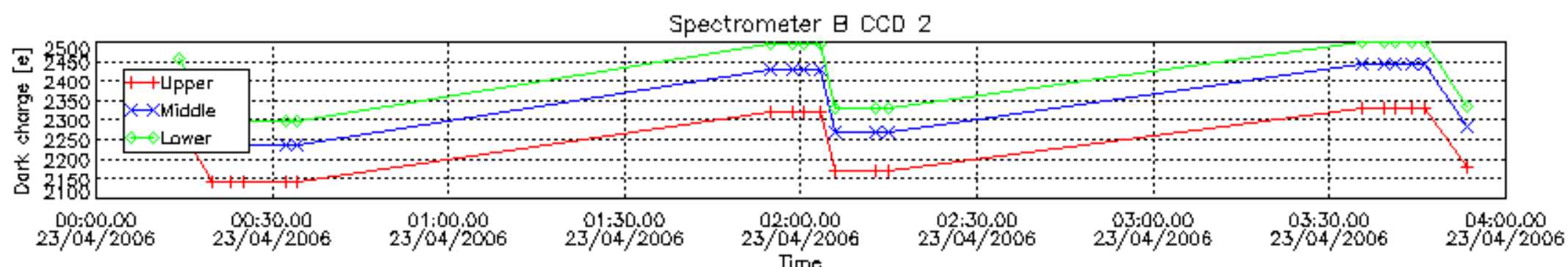
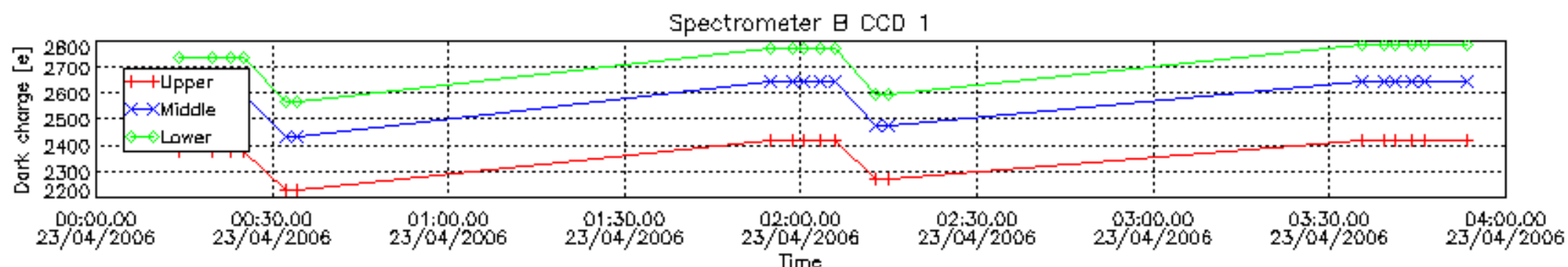
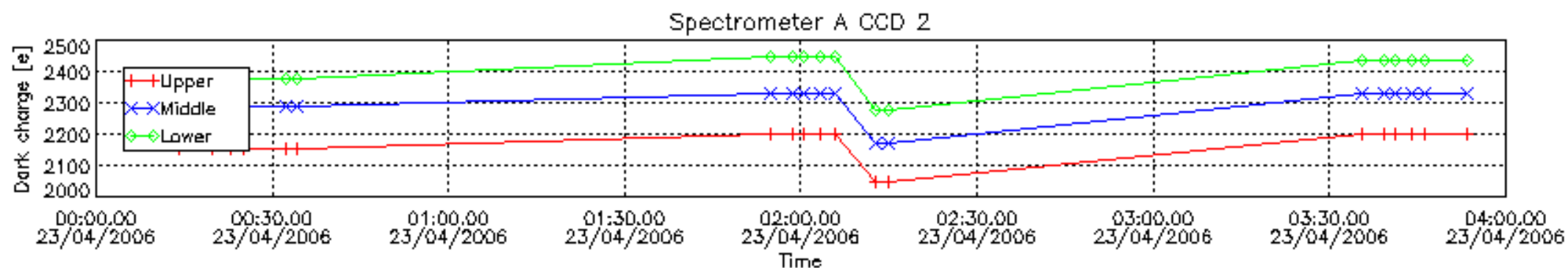
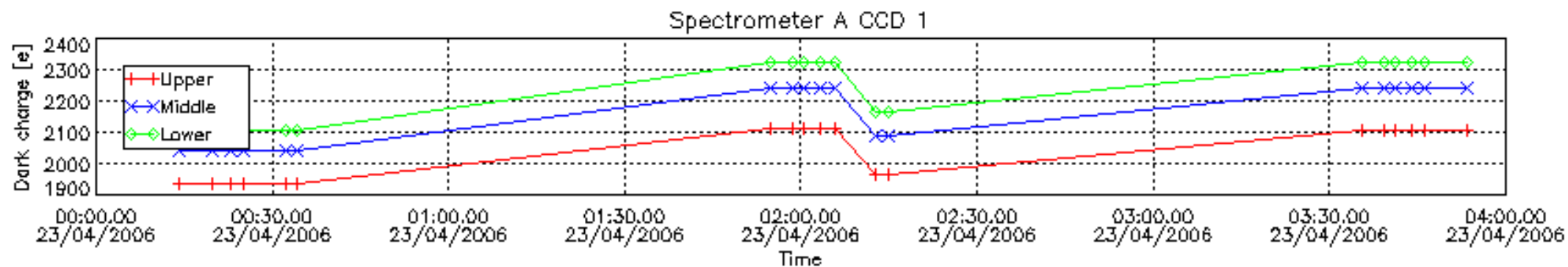
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.5	1446.2	1460.6	1446.1
St. deviation:	5.6306	17.109	6.7192	16.023
Maximum:	1612.0	1559.0	1494.0	1503.0
Minimum:	1454.0	1427.0	1446.0	1428.0
Number of data:	17050.	17050.	7550.0	7550.0

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

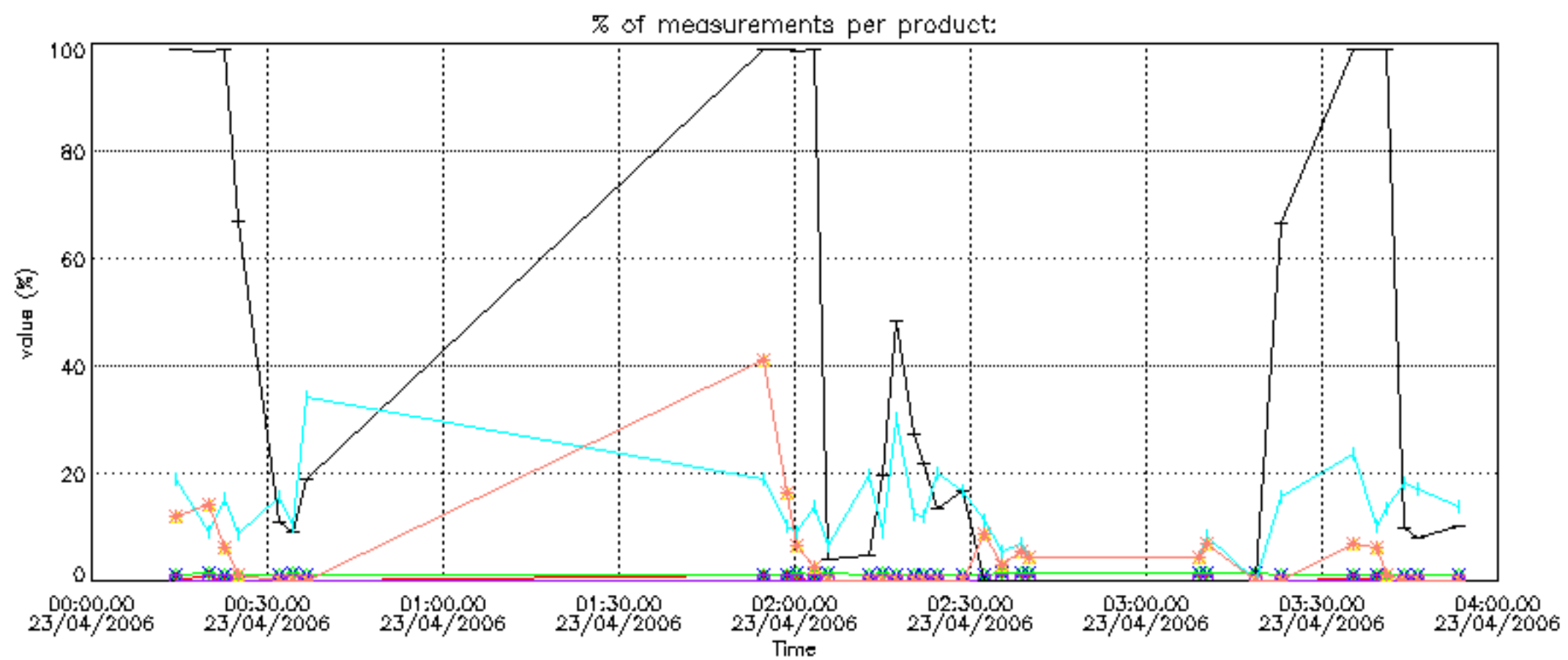
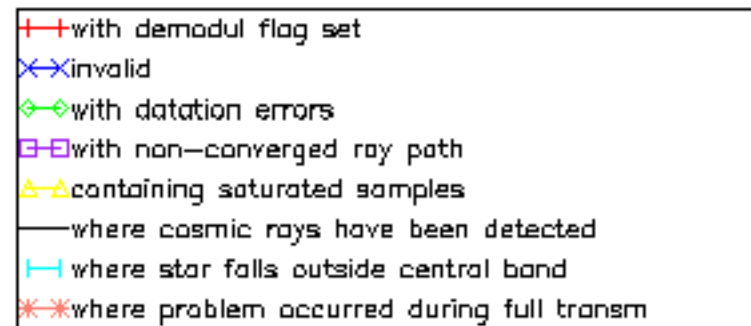
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	23-APR-2006 00:14:13
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060413_081550_20060411_000000_20100101_000000	1	23-APR-2006 00:14:13
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	23-APR-2006 00:14:13
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-APR-2006 00:14:13
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	23-APR-2006 00:14:13
ECMWF_FILE	AUX_ECF_AXNECM20060422_062822_20060422_210000_20060423_090000	1	23-APR-2006 00:14:13
ECMWF_FILE	AUX_ECF_AXNECM20060422_181849_20060423_030000_20060423_150000	24	23-APR-2006 03:09:00
OPTIONAL_ECMWF_FILE	NOT USED	1	23-APR-2006 00:14:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060422_222618_000057382047_00072_21669_0343.N1	1	23-APR-2006 00:14:13
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060422_223842_20060422_192128_20060502_204743	8	23-APR-2006 01:54:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060423_014254_000044632047_00074_21671_0344.N1	24	23-APR-2006 03:09:00

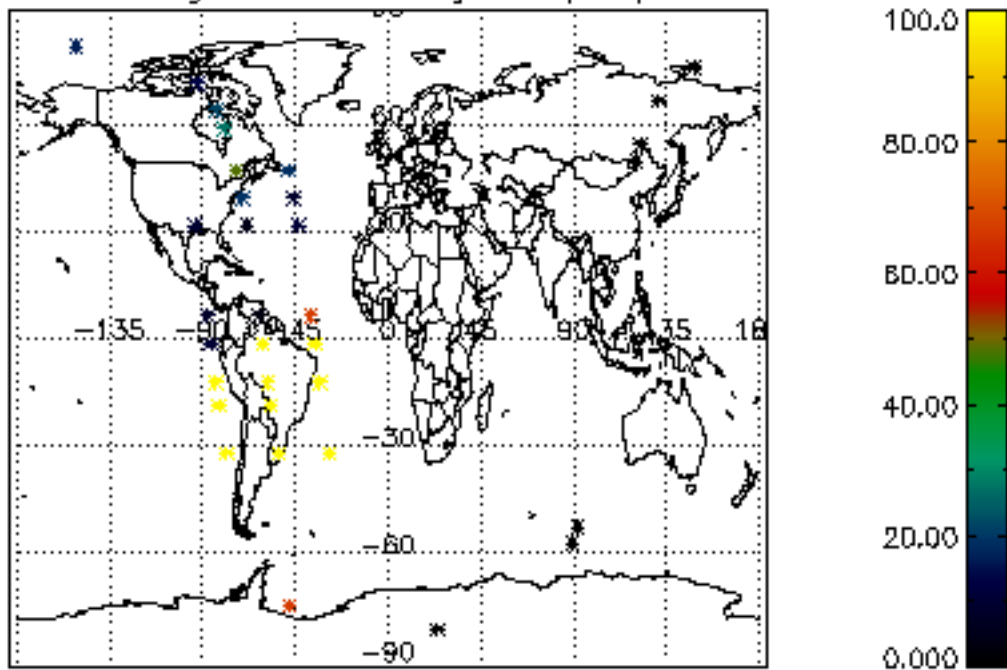




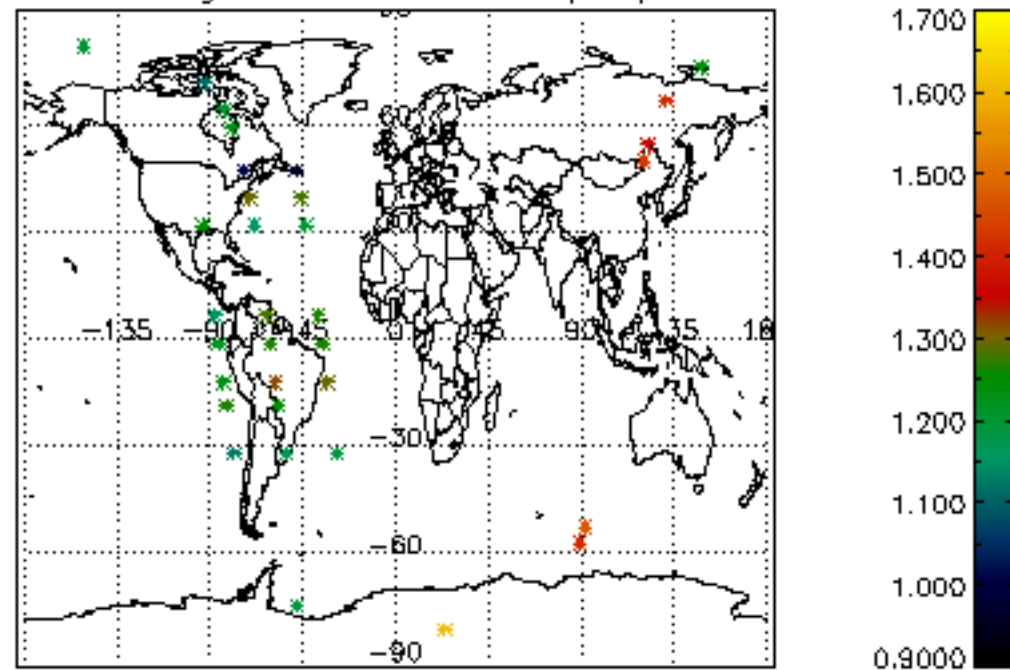




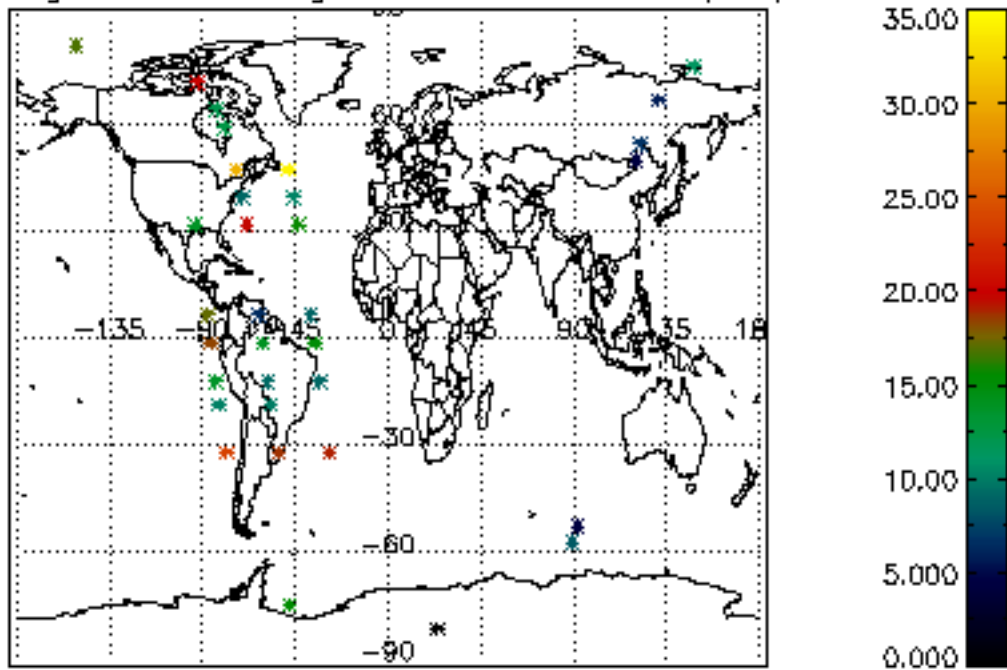
Percentage of cosmic ray hits per profile



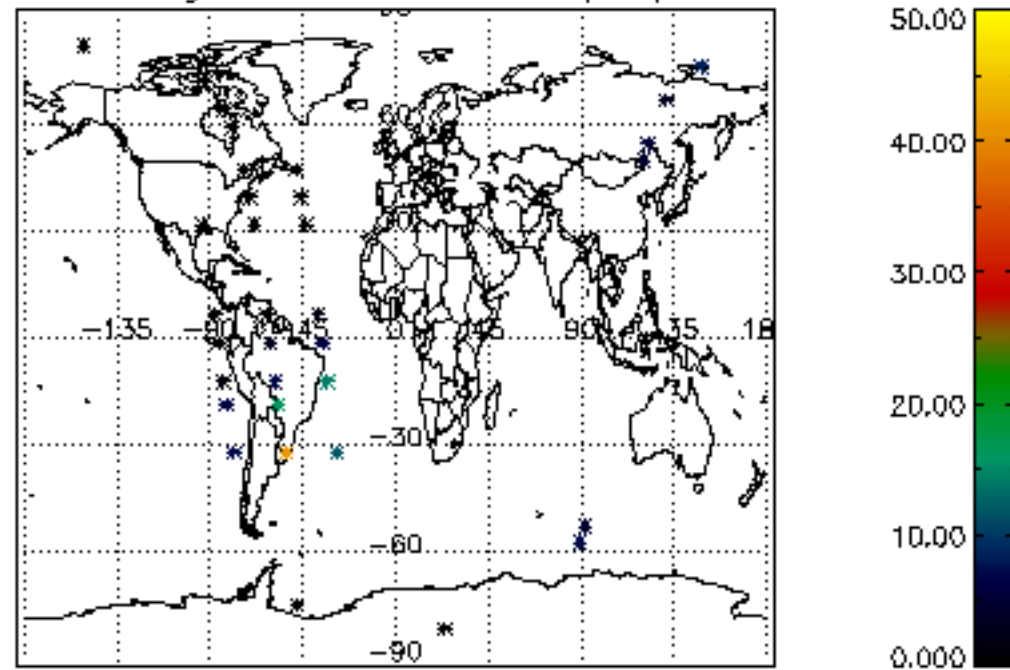
Percentage of datation errors per profile



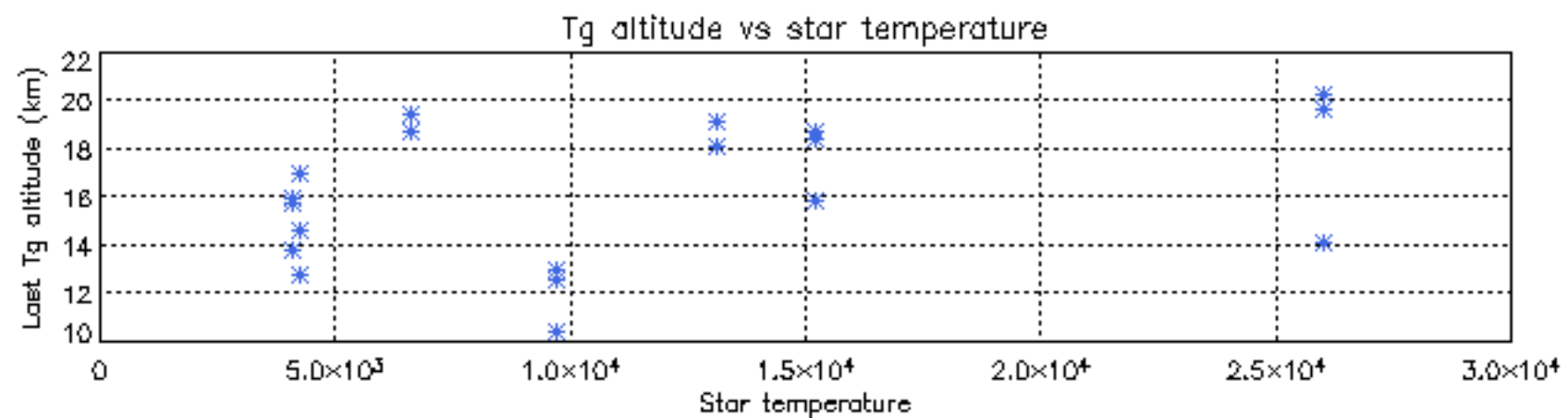
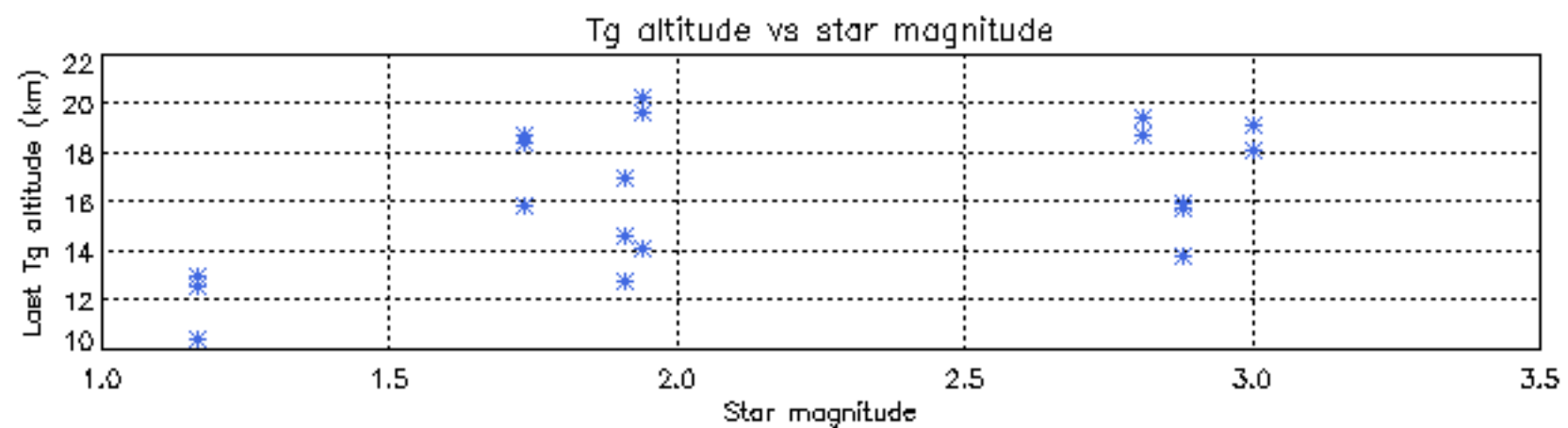
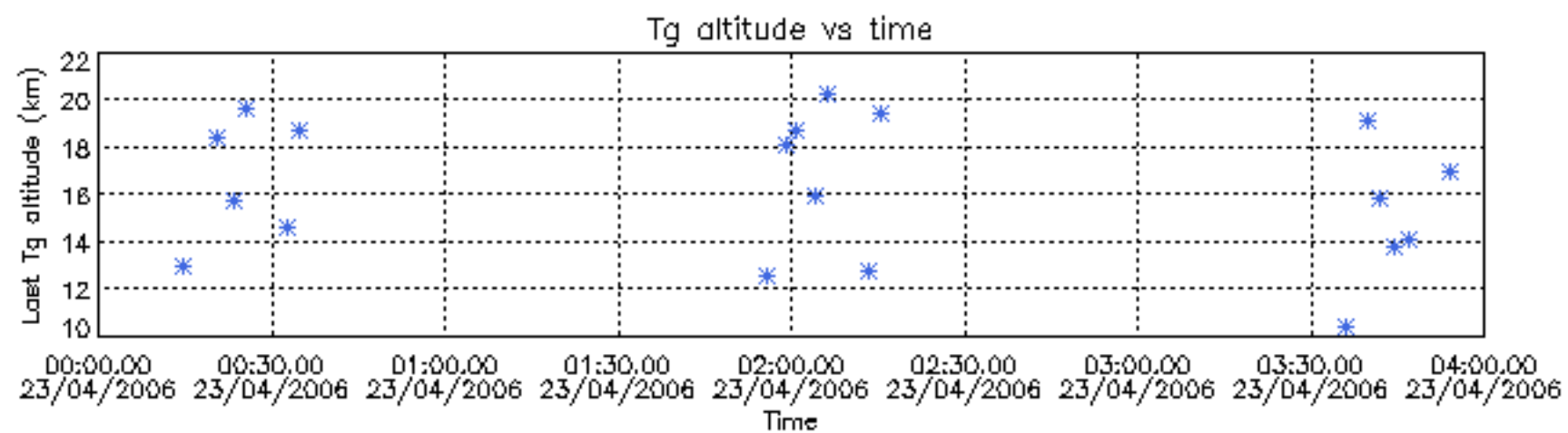
Percentage of star falling outside central band per profile



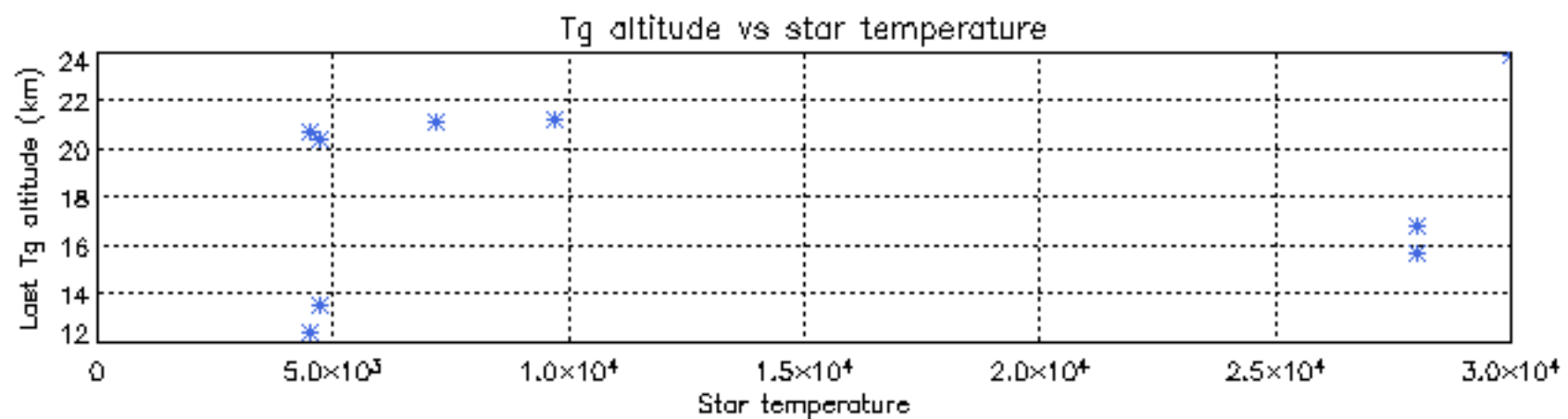
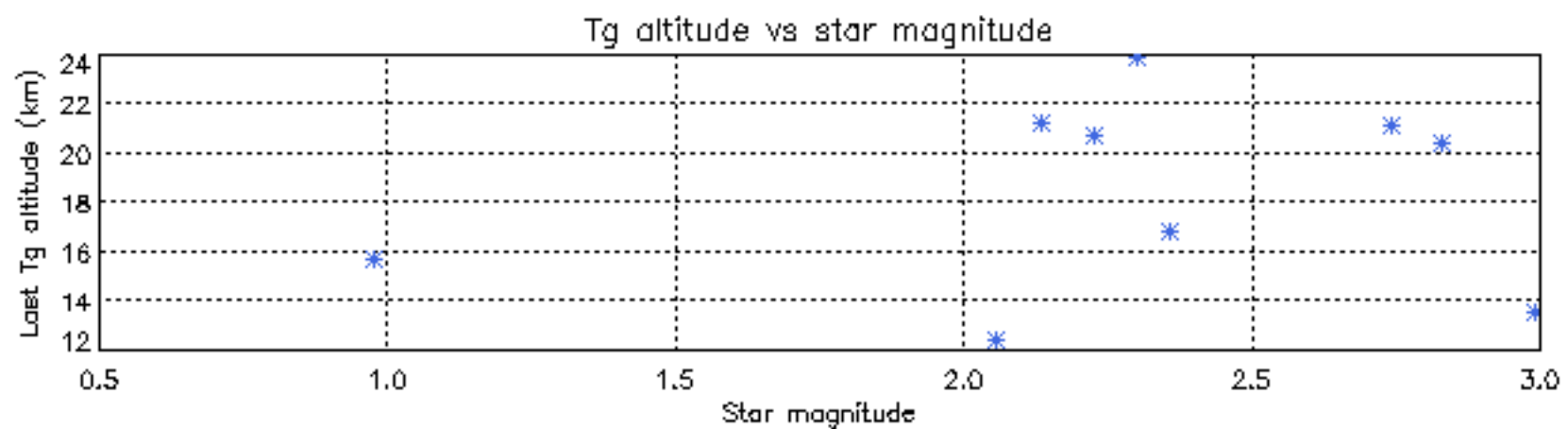
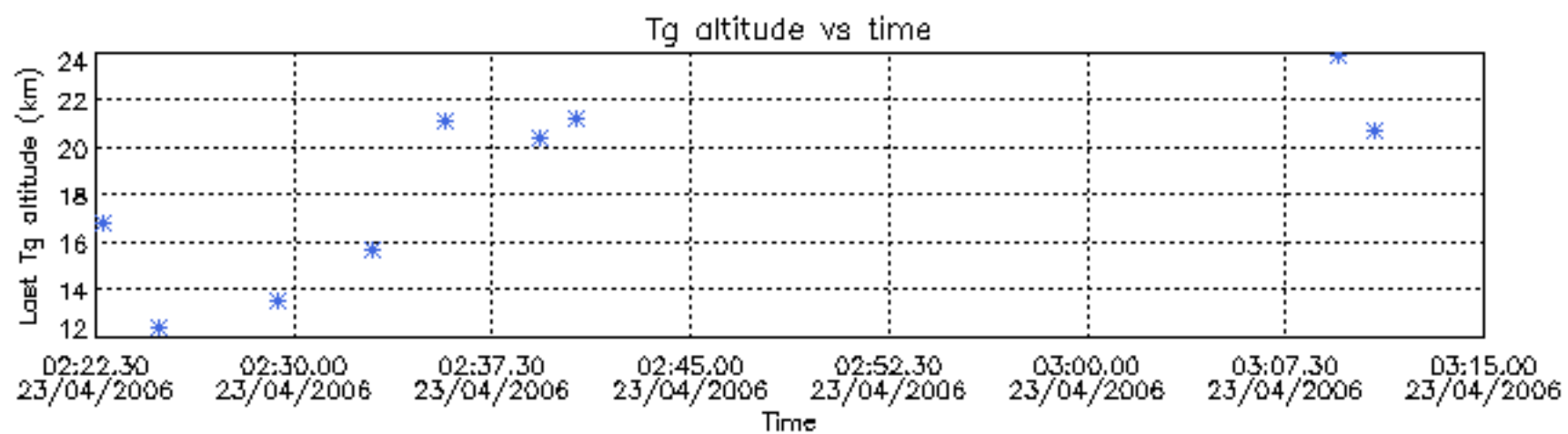
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

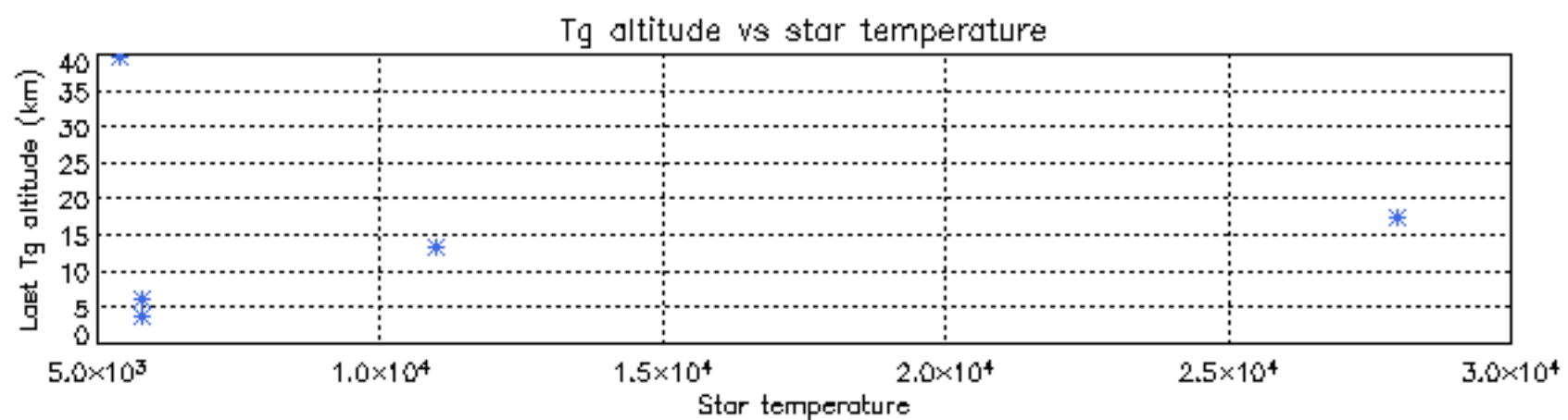
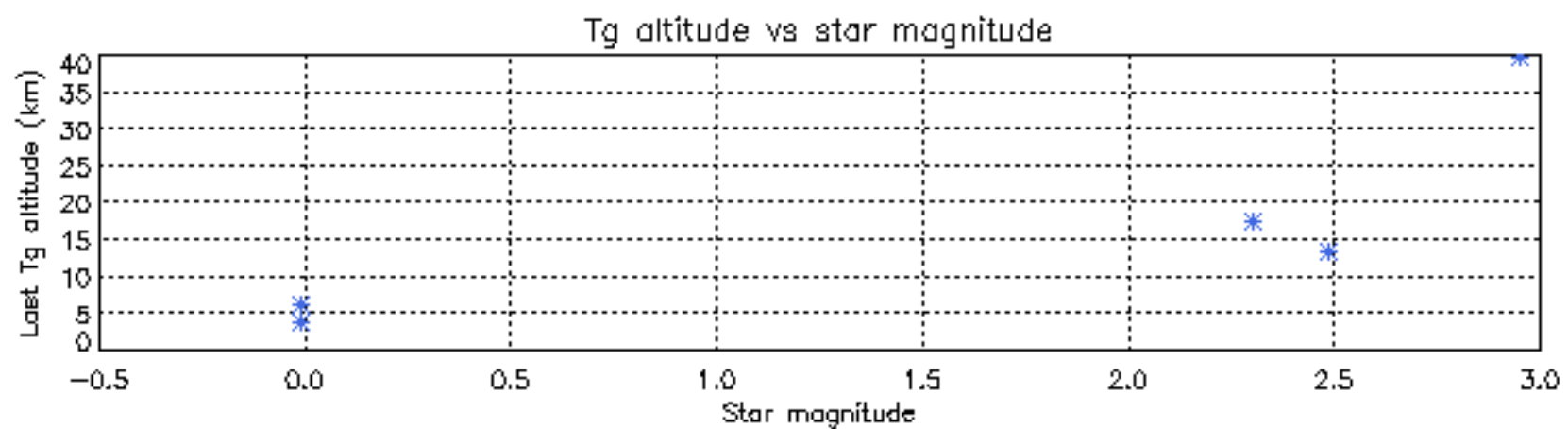
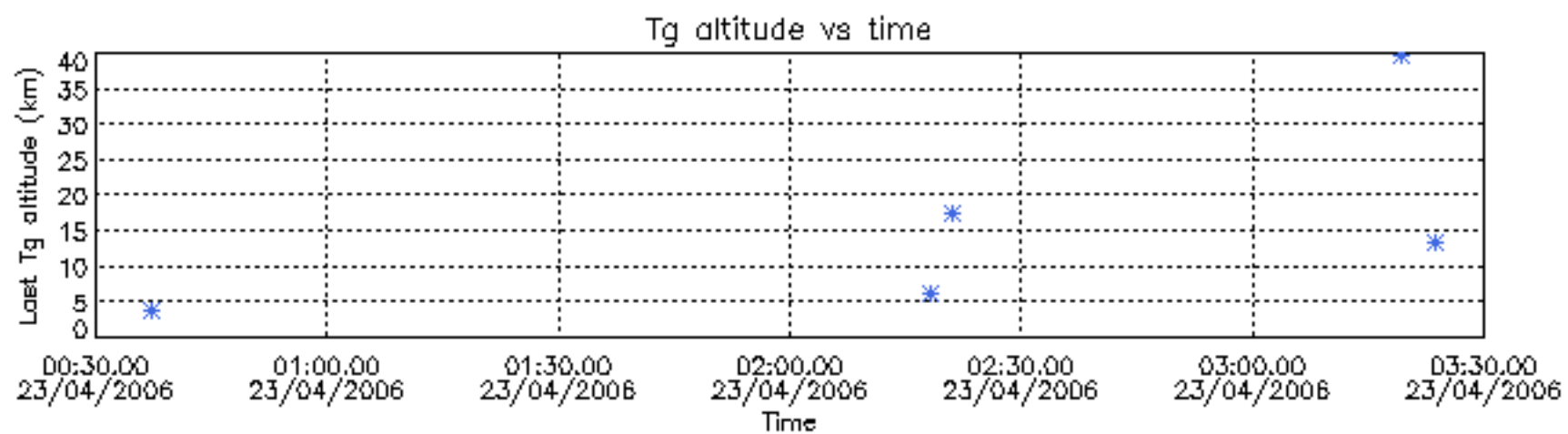


Tangent altitude at which the star is lost





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  
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 5; 837.9; 01-APR-2006 00:28:31; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;21356  
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 11; 2160.9; 01-APR-2006 00:50:34; Bright; 39.0; 62; 94Bet Leo ; 2.14; 9700;occ; 78; 0;21356  
 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  
 14; 2848.6; 01-APR-2006 01:02:01; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;21356  
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 18; 3902.0; 01-APR-2006 01:19:35; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;21356  
 19; 4213.6; 01-APR-2006 01:24:46; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;21356  
 20; 4434.0; 01-APR-2006 01:28:27; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;21356  
 21; 4826.3; 01-APR-2006 01:34:59; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;21356  
 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  
 12; 8196.8; 01-APR-2006 02:31:09; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21356  
 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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 5; -934.0; 01-APR-2006 03:20:10; Dark ; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;21357  
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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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 15; 1578.2; 01-APR-2006 04:02:03; Dark ; 44.0; 100; 4Gam Crv ; 2.58; 13100;occ; 88; 0;21358  
 16; 2160.8; 01-APR-2006 04:11:45; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;21358  
 17; 2257.1; 01-APR-2006 04:13:22; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21358  
 18; 2666.4; 01-APR-2006 04:20:11; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;21358  
 19; 2848.4; 01-APR-2006 04:23:13; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;21358  
 20; 2958.0; 01-APR-2006 04:25:02; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;21358  
 21; 3337.9; 01-APR-2006 04:31:22; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;21358  
 22; 3439.9; 01-APR-2006 04:33:04; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;21358

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 2; -1822.3; 01-APR-2006 04:45:58; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 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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11; 936.1; 01-APR-2006 05:31:57; Dark ; 42.0; 81; Eta Cen ; 2.36; 28000;occ; 84; 0;21359
12; 1015.0; 01-APR-2006 05:33:16; Dark ; 39.5; 64; Gam Cen ; 2.20; 10600;occ; 79; 0;21359
13; 1169.1; 01-APR-2006 05:35:50; Dark ; 43.0; 123; Iot Cen ; 2.75; 10200;occ; 86; 0;21359
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16; 2160.7; 01-APR-2006 05:52:21; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21359
17; 2257.0; 01-APR-2006 05:53:58; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21359
18; 2666.3; 01-APR-2006 06:00:47; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;21359
19; 2848.1; 01-APR-2006 06:03:49; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;21359
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21; 3337.6; 01-APR-2006 06:11:58; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;21359
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2;-1822.3; 01-APR-2006 06:26:34; Bright; 39.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 79; 0;21359
3;-1601.5; 01-APR-2006 06:30:15; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;21359
4;-1208.8; 01-APR-2006 06:36:48; Dark ; 54.0; 61; 8Eps Peg ; 2.10; 3900;occ; 108; 0;21359
5; -933.3; 01-APR-2006 06:41:23; Dark ; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 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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12; 1015.3; 01-APR-2006 07:13:52; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;21360
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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9;-1822.3; 01-APR-2006 08:07:10; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 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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8; 1462.4; 01-APR-2006 22:26:42; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;21369
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9; 1579.7; 02-APR-2006 00:09:16; Dark ; 42.0; 100; 4Gam Crv ; 2.58; 13100;occ; 84; 0;21370
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13; 2845.5; 02-APR-2006 00:30:21; Bright; 35.0; 87; 64Gam UMA ; 2.43; 11000;occ; 70; 0;21370
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 13;-1600.4; 01-APR-2006 16:33:51; Bright; 42.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 85; 0;21365  
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 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  
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 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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 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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 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  
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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  
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 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  
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 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  
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 18; 2845.2; 02-APR-2006 03:51:33; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;21372  
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 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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 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  
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 3; 4435.9; 02-APR-2006 05:58:40; Bright; 41.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 83; 0;21373  
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 5; 5107.9; 02-APR-2006 06:09:52; Dark ; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;21373  
 6; 5734.6; 02-APR-2006 06:20:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21373



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9; 6718.0; 02-APR-2006 06:36:42; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;21373
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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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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
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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
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8; 1178.0; 02-APR-2006 21:50:21; Dark ; 43.0; 123; Tot Cen ; 2.75; 10200;occ; 86; 0;21383
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16; 2842.8; 02-APR-2006 22:18:06; Bright; 38.5; 87; 64Gam UMa ; 2.43; 11000;occ; 77; 0;21383
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5; 6891.2; 02-APR-2006 23:25:35; Dark ; 42.5; 78; Alp Lup ; 2.30; 28000;occ; 85; 0;21383
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7; 7148.7; 02-APR-2006 23:29:52; Dark ; 30.0; 54; 5The Cen ; 2.06; 4500;occ; 60; 0;21383
8; 7214.3; 02-APR-2006 23:30:58; Dark ; 42.0; 123; Tot Cen ; 2.75; 10200;occ; 84; 0;21383

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 6; 6169.4; 25-APR-2006 22:50:39; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;21712  
 7; 6585.1; 25-APR-2006 22:57:35; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;21712  
 8; 6715.7; 25-APR-2006 22:59:46; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;21712  
 9; 6846.5; 25-APR-2006 23:01:56; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;21712  
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 11; 7141.2; 25-APR-2006 23:06:51; Dark ; 43.0; 81; Eta Cen ; 2.36; 28000;occ; 86; 0;21712  
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 13; 7535.2; 25-APR-2006 23:13:25; Dark ; 40.0; 169; 46Gam Hya ; 2.99; 4700;occ; 80; 0;21712  
 14; 7739.1; 25-APR-2006 23:16:49; Bright; 40.0; 15; 67Alp Vir ; 0.98; 28000;occ; 80; 0;21712  
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 17; 8859.2; 25-APR-2006 23:35:29; Bright; 35.0; 87; 64Gam UMA ; 2.43; 11000;occ; 70; 0;21712  
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 19; 9015.6; 25-APR-2006 23:38:05; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;21712  
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 21; 9479.4; 25-APR-2006 23:45:49; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;21712  
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 23;10027.3; 25-APR-2006 23:54:57; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;21712  
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 5; 134.1; 26-APR-2006 00:31:16; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;21714  
 6; 549.4; 26-APR-2006 00:38:11; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;21714  
 7; 680.2; 26-APR-2006 00:40:22; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21714  
 8; 811.0; 26-APR-2006 00:42:33; Dark ; 49.5; 4; Alp1Cen ; -0.01; 5800;occ; 99; 0;21714  
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 11; 1236.0; 26-APR-2006 00:49:38; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;21714  
 12; 1499.5; 26-APR-2006 00:54:01; Dark ; 42.0; 169; 46Gam Hya ; 2.99; 4700;occ; 84; 0;21714  
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 14; 1885.8; 26-APR-2006 01:00:27; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;21714  
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 16; 2562.8; 26-APR-2006 01:11:44; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;21714  
 17; 2823.4; 26-APR-2006 01:16:05; Bright; 52.0; 87; 64Gam UMA ; 2.43; 11000;occ; 104; 0;21714  
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 21; 3443.7; 26-APR-2006 01:26:25; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;21714  
 22; 3905.0; 26-APR-2006 01:34:07; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;21714  
 23; 3991.5; 26-APR-2006 01:35:33; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;21714  
 24; 4523.7; 26-APR-2006 01:44:25; Bright; 41.5; 93; 53Bet Peg ; 2.52; 3100;occ; 83; 0;21714  
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 5; 6020.8; 26-APR-2006 02:09:22; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;21714  
 6; 6170.6; 26-APR-2006 02:11:52; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;21714  
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 12; 7272.3; 26-APR-2006 02:30:14; Dark ; 39.5; 54; 5The Cen ; 2.06; 4500;occ; 79; 0;21714  
 13; 7535.7; 26-APR-2006 02:34:37; Dark ; 44.0; 169; 46Gam Hya ; 2.99; 4700;occ; 88; 0;21714  
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 17; 8598.8; 26-APR-2006 02:52:20; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;21714  
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 19; 8933.6; 26-APR-2006 02:57:55; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;21714  
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 21; 8598.8; 26-APR-2006 04:32:56; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;21715  
 22; 8859.8; 26-APR-2006 04:37:17; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;21715  
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 25; 9270.4; 26-APR-2006 04:44:08; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;21715  
 26; 9479.7; 26-APR-2006 04:47:37; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;21715

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 4; 1501.5; 26-APR-2006 21:01:15; Dark ; 38.0; 169; 46Gam Hya ; 2.99; 4700;occ; 76; 0;21726  
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16; 4755.4; 26-APR-2006 21:55:28; Dark ; 41.0; 90; 54Alp Peg ; 2.49; 11000;occ; 82; 0;21726
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3; -281.6; 26-APR-2006 22:12:07; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;21726
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