

# GOMOS Daily Report 16-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	18APR2006 04:31:52

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (16APR2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (17APR2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

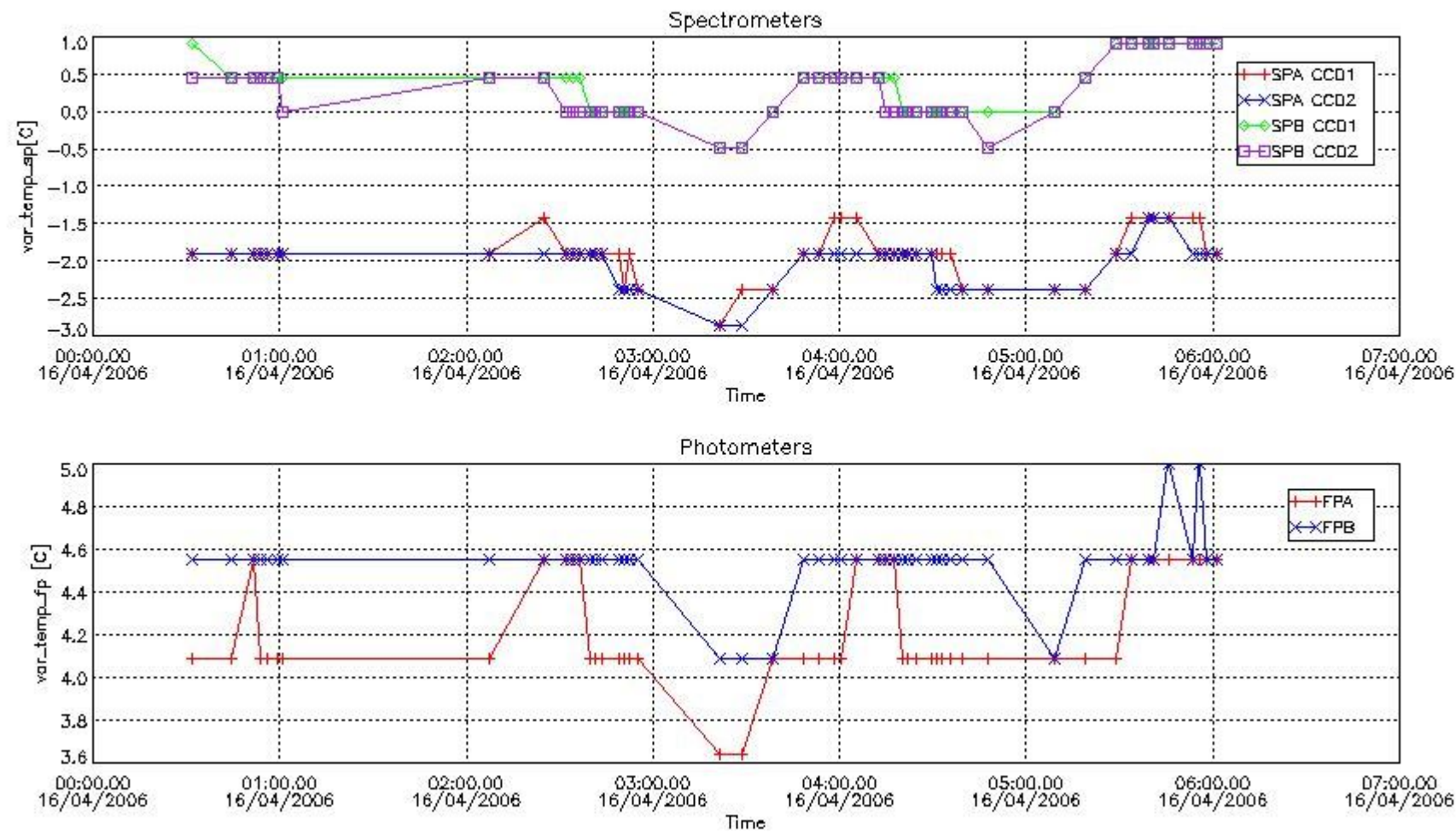
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060416_003156_000000452046_00474_21570_0000.N1	16-APR-2006 00:31:56	Dark	44.500	142	49Del Cap	2.8500	8900.0	89	21570	No
2	GOM_TRA_1PNPDE20060416_004414_000000392046_00475_21571_0001.N1	16-APR-2006 00:44:14	Dark	39.000	45	Alp Pav	1.9400	26000.	78	21571	No
3	GOM_TRA_1PNPDE20060416_005135_000000472046_00475_21571_0002.N1	16-APR-2006 00:51:35	Dark	46.500	43	Alp TrA	1.9100	4250.0	93	21571	No
4	GOM_TRA_1PNPDE20060416_005341_000000392046_00475_21571_0003.N1	16-APR-2006 00:53:41	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	21571	No
5	GOM_TRA_1PNPDE20060416_005605_000000432046_00475_21571_0004.N1	16-APR-2006 00:56:05	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	21571	No
6	GOM_TRA_1PNPDE20060416_005915_000000412046_00475_21571_0005.N1	16-APR-2006 00:59:15	Twilight	40.500	78	Alp Lup	2.3040	28000.	81	21571	No
7	GOM_TRA_1PNPDE20060416_010051_000000442046_00475_21571_0006.N1	16-APR-2006 01:00:51	Twilight	43.500	81	Eta Cen	2.3560	28000.	87	21571	No
8	GOM_TRA_1PNPDE20060416_020731_000000402046_00475_21571_0000.N1	16-APR-2006 02:07:31	Twilight	40.000	162	34Alp Aqr	2.9440	5350.0	80	21571	Yes
9	GOM_TRA_1PNPDE20060416_022451_000000412046_00476_21572_0001.N1	16-APR-2006 02:24:51	Dark	41.000	45	Alp Pav	1.9400	26000.	82	21572	No
10	GOM_TRA_1PNPDE20060416_023212_000000392046_00476_21572_0002.N1	16-APR-2006 02:32:12	Dark	39.000	43	Alp TrA	1.9100	4250.0	78	21572	No
11	GOM_TRA_1PNPDE20060416_023418_000000402046_00476_21572_0003.N1	16-APR-2006 02:34:18	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	21572	No
12	GOM_TRA_1PNPDE20060416_023641_000000432046_00476_21572_0004.N1	16-APR-2006 02:36:41	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	21572	No
13	GOM_TRA_1PNPDE20060416_023952_000000412046_00476_21572_0005.N1	16-APR-2006 02:39:52	Twilight	41.000	78	Alp Lup	2.3040	28000.	82	21572	No
14	GOM_TRA_1PNPDE20060416_024127_000000442046_00476_21572_0006.N1	16-APR-2006 02:41:27	Twilight	43.500	81	Eta Cen	2.3560	28000.	87	21572	No
15	GOM_TRA_1PNPDE20060416_024349_000000482046_00476_21572_0007.N1	16-APR-2006 02:43:49	Bright	48.000	54	5The Cen	2.0550	4500.0	96	21572	No
16	GOM_TRA_1PNPDE20060416_024857_000000412046_00476_21572_0008.N1	16-APR-2006 02:48:57	Bright	41.000	106	9Bet Crv	2.6480	5600.0	82	21572	No
17	GOM_TRA_1PNPDE20060416_025047_000000382046_00476_21572_0009.N1	16-APR-2006 02:50:47	Bright	37.500	100	4Gam Crv	2.5800	13100.	75	21572	No
18	GOM_TRA_1PNPDE20060416_025210_000000452046_00476_21572_0010.N1	16-APR-2006 02:52:10	Bright	44.500	15	67Alp Vir	0.97600	28000.	89	21572	No
19	GOM_TRA_1PNPDE20060416_025513_000000382046_00476_21572_0011.N1	16-APR-2006 02:55:13	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	21572	No
20	GOM_TRA_1PNPDE20060416_032120_000000322046_00476_21572_0000.N1	16-APR-2006 03:21:20	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	21572	No
21	GOM_TRA_1PNPDE20060416_032836_000000372046_00476_21572_0000.N1	16-APR-2006 03:28:36	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	21572	No
22	GOM_TRA_1PNPDE20060416_033833_000000372046_00476_21572_0001.N1	16-APR-2006 03:38:33	Twilight	37.000	164	44Eta Peg	2.9480	5400.0	74	21572	No
23	GOM_TRA_1PNPDE20060416_034807_000000412046_00476_21572_0002.N1	16-APR-2006 03:48:07	Twilight	40.500	162	34Alp Aqr	2.9440	5350.0	81	21572	No
24	GOM_TRA_1PNPDE20060416_035309_000000452046_00476_21572_0003.N1	16-APR-2006 03:53:09	Dark	44.500	142	49Del Cap	2.8500	8900.0	89	21572	No
25	GOM_TRA_1PNPDE20060416_035826_000000392046_00476_21572_0004.N1	16-APR-2006 03:58:26	Dark	39.000	172	Gam Gru	3.0030	13100.	78	21572	No
26	GOM_TRA_1PNPDE20060416_040029_000000402046_00476_21572_0005.N1	16-APR-2006 04:00:29	Dark	39.500	31	Alp Gru	1.7340	15200.	79	21572	No
27	GOM_TRA_1PNPDE20060416_040527_000000392046_00477_21573_0006.N1	16-APR-2006 04:05:27	Dark	39.000	45	Alp Pav	1.9400	26000.	78	21573	No
28	GOM_TRA_1PNPDE20060416_041248_000000392046_00477_21573_0007.N1	16-APR-2006 04:12:48	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	21573	No
29	GOM_TRA_1PNPDE20060416_041454_000000392046_00477_21573_0008.N1	16-APR-2006 04:14:54	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	21573	No
30	GOM_TRA_1PNPDE20060416_041718_000000492046_00477_21573_0009.N1	16-APR-2006 04:17:18	Dark	49.000	4	Alp1Cen	-0.010000	5800.0	98	21573	No
31	GOM_TRA_1PNPDE20060416_042028_000000422046_00477_21573_0010.N1	16-APR-2006 04:20:28	Twilight	42.000	78	Alp Lup	2.3040	28000.	84	21573	No
32	GOM_TRA_1PNPDE20060416_042204_000000412046_00477_21573_0011.N1	16-APR-2006 04:22:04	Twilight	41.000	81	Eta Cen	2.3560	28000.	82	21573	No
33	GOM_TRA_1PNPDE20060416_042426_000000472046_00477_21573_0012.N1	16-APR-2006 04:24:26	Bright	47.000	54	5The Cen	2.0550	4500.0	94	21573	No
34	GOM_TRA_1PNPDE20060416_042933_000000412046_00477_21573_0013.N1	16-APR-2006 04:29:33	Bright	41.000	106	9Bet Crv	2.6480	5600.0	82	21573	No
35	GOM_TRA_1PNPDE20060416_043123_000000382046_00477_21573_0014.N1	16-APR-2006 04:31:23	Bright	37.500	100	4Gam Crv	2.5800	13100.	75	21573	No
36	GOM_TRA_1PNPDE20060416_043246_000000442046_00477_21573_0015.N1	16-APR-2006 04:32:46	Bright	44.000	15	67Alp Vir	0.97600	28000.	88	21573	No
37	GOM_TRA_1PNPDE20060416_043549_000000372046_00477_21573_0016.N1	16-APR-2006 04:35:49	Bright	37.000	121	29Gam Vir	2.7400	7200.0	74	21573	No
38	GOM_TRA_1PNPDE20060416_043935_000000402046_00477_21573_0017.N1	16-APR-2006 04:39:35	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	21573	No
39	GOM_TRA_1PNPDE20060416_044742_000000372046_00477_21573_0018.N1	16-APR-2006 04:47:42	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	21573	No
40	GOM_TRA_1PNPDE20060416_050912_000000572046_00477_21573_0000.N1	16-APR-2006 05:09:12	Bright	57.000	89	5Alp Cep	2.4510	8000.0	114	21573	No
41	GOM_TRA_1PNPDE20060416_051909_000000452046_00477_21573_0001.N1	16-APR-2006 05:19:09	Twilight	45.000	164	44Eta Peg	2.9480	5400.0	90	21573	No
42	GOM_TRA_1PNPDE20060416_052844_000000462046_00477_21573_0002.N1	16-APR-2006 05:28:44	Twilight	46.000	162	34Alp Aqr	2.9440	5350.0	92	21573	No
43	GOM_TRA_1PNPDE20060416_053345_000000462046_00477_21573_0003.N1	16-APR-2006 05:33:45	Dark	45.500	142	49Del Cap	2.8500	8900.0	91	21573	No
44	GOM_TRA_1PNPDE20060416_053902_000000392046_00477_21573_0004.N1	16-APR-2006 05:39:02	Dark	38.500	172	Gam Gru	3.0030	13100.	77	21573	No
45	GOM_TRA_1PNPDE20060416_054105_000000392046_00477_21573_0005.N1	16-APR-2006 05:41:05	Dark	39.000	31	Alp Gru	1.7340	15200.	78	21573	No
46	GOM_TRA_1PNPDE20060416_054604_000000402046_00478_21574_0006.N1	16-APR-2006 05:46:04	Dark	39.500	45	Alp Pav	1.9400	26000.	79	21574	No

47	GOM_TRA_1PNPDE20060416_055325_000000422046_00478_21574_0007.N1	16-APR-2006 05:53:25	Dark	42.000	43	Alp TrA	1.9100	4250.0	84	21574	No
48	GOM_TRA_1PNPDE20060416_055531_000000402046_00478_21574_0008.N1	16-APR-2006 05:55:31	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	21574	No
49	GOM_TRA_1PNPDE20060416_055754_000000442046_00478_21574_0009.N1	16-APR-2006 05:57:54	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	21574	No
50	GOM_TRA_1PNPDE20060416_060105_000000452046_00478_21574_0010.N1	16-APR-2006 06:01:05	Twilight	44.500	78	Alp Lup	2.3040	28000.	89	21574	No

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



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

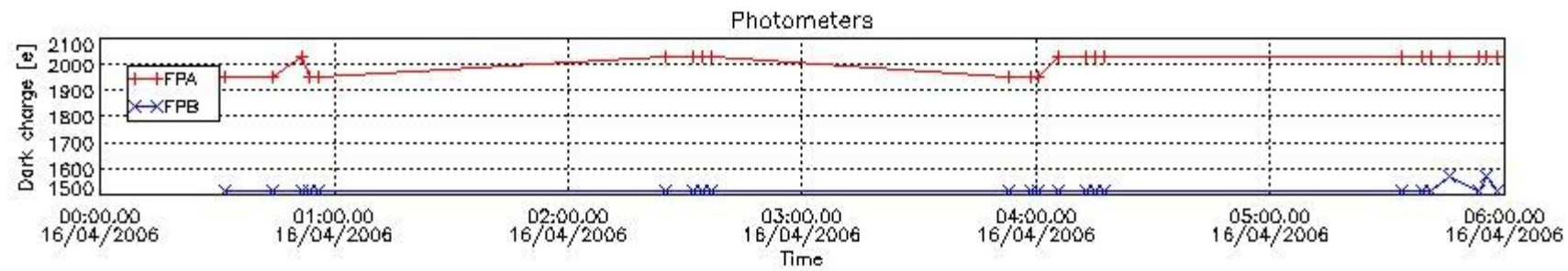
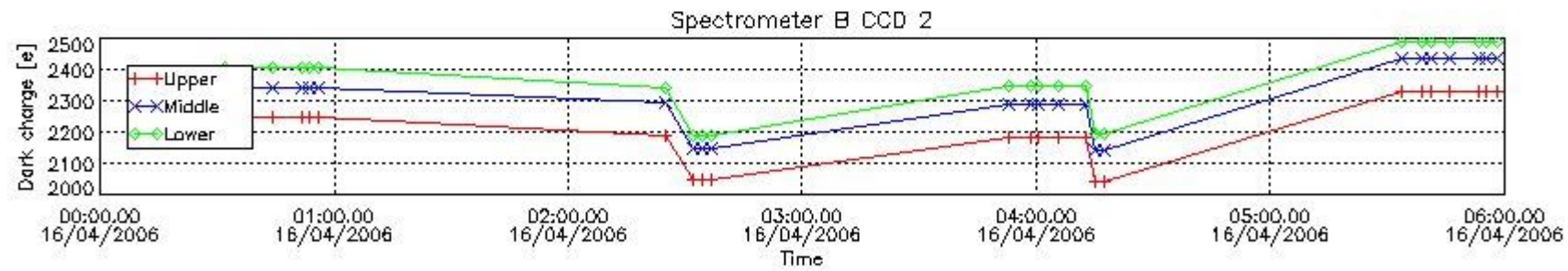
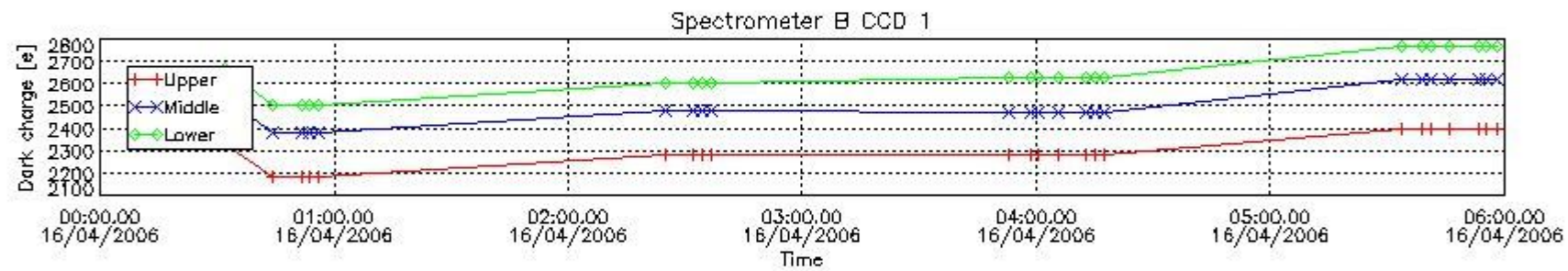
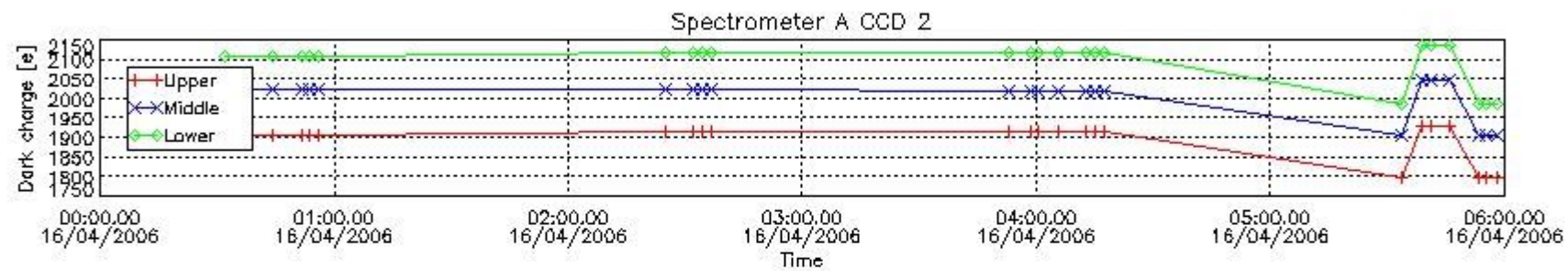
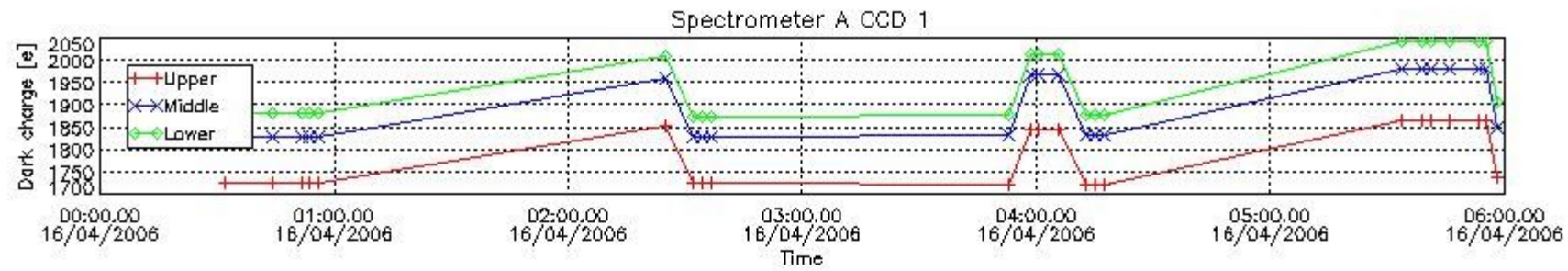
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

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

Product name	DC information
GOM_TRA_1PNPDE20060416_032120_000000322046_00476_21572_0000.N1	DC map used (0)

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



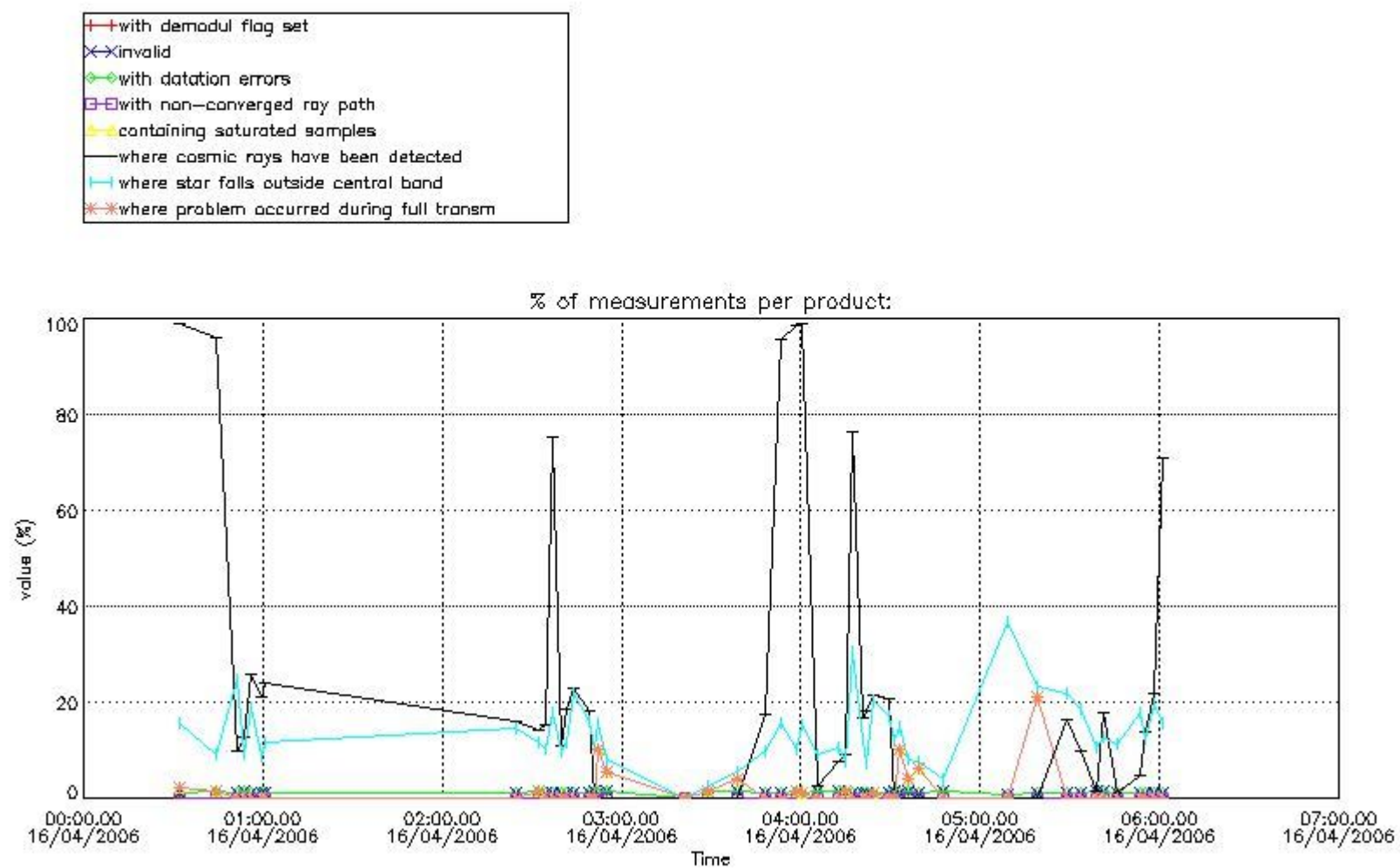
## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

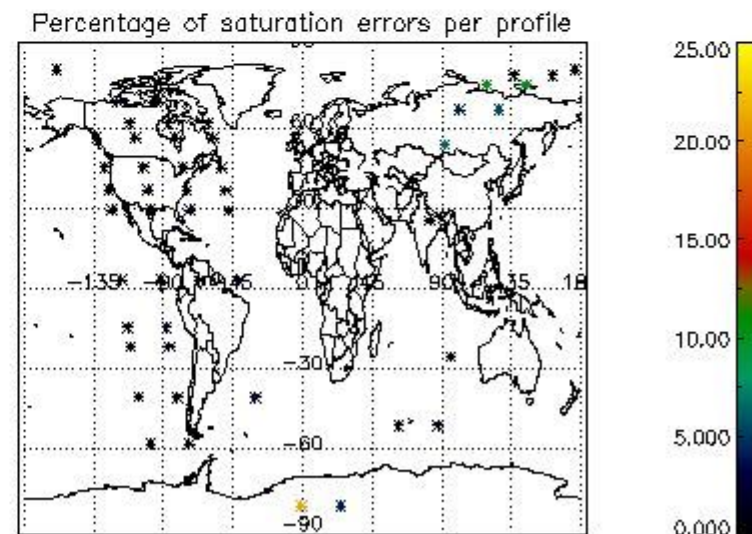
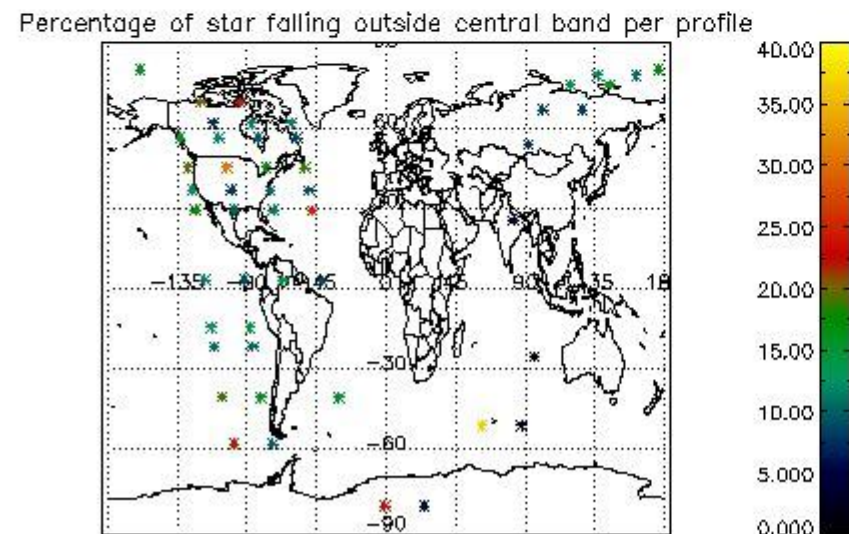
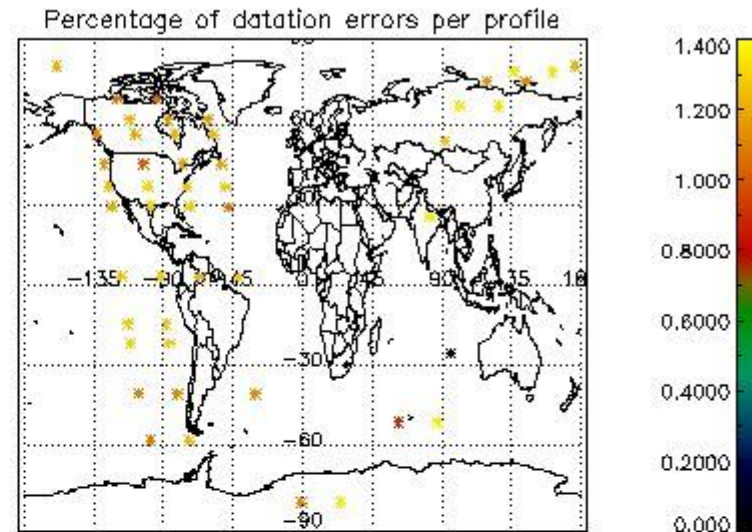
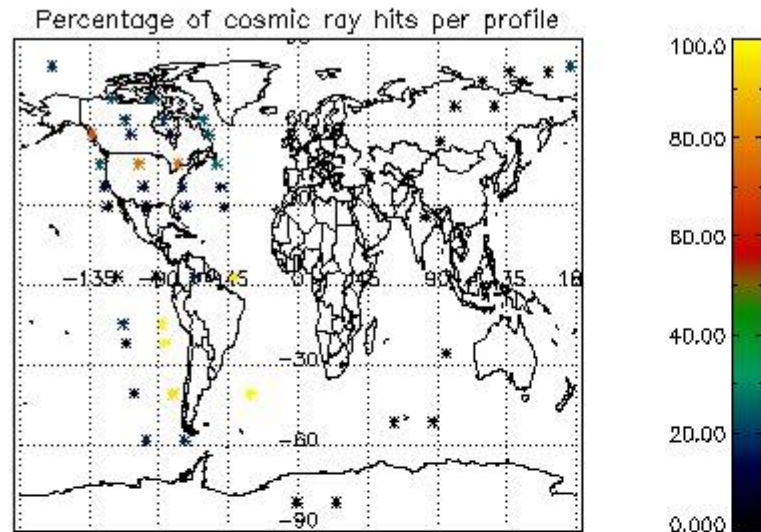
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.4082 %
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)



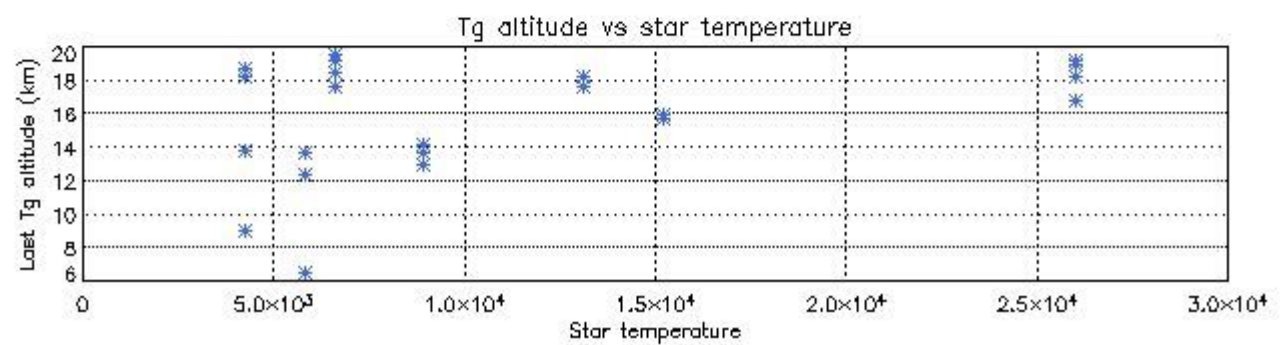
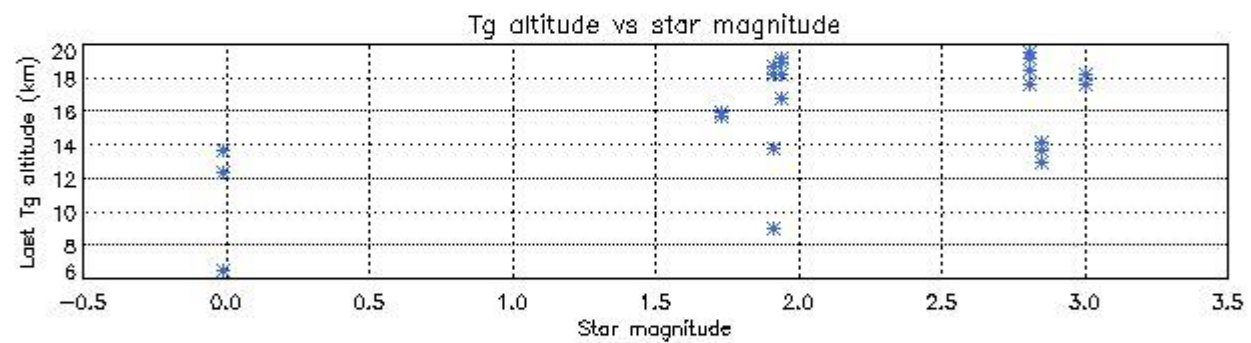
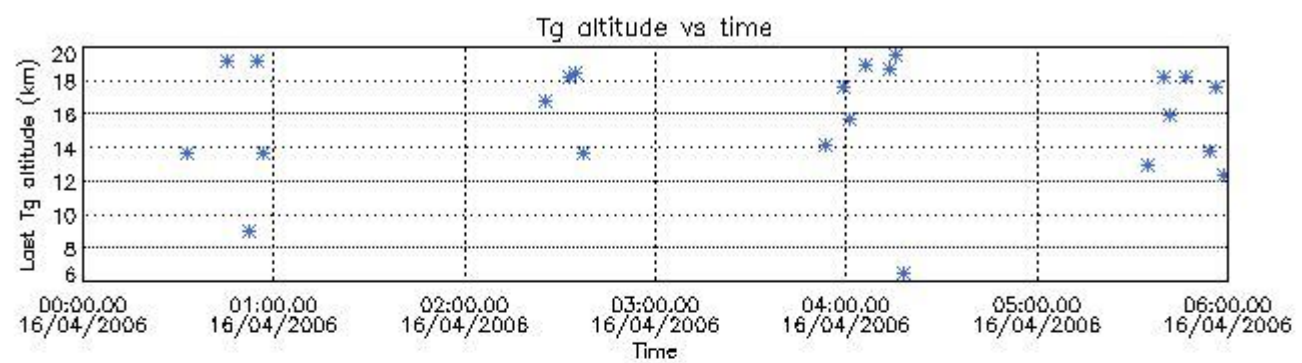
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.731	16.931	16.620
St. deviation:	3.4376	6.3772	3.3023
Maximum:	19.493	29.885	20.537
Minimum:	6.5114	3.7389	10.445
Number of data:	23.000	15.000	11.000

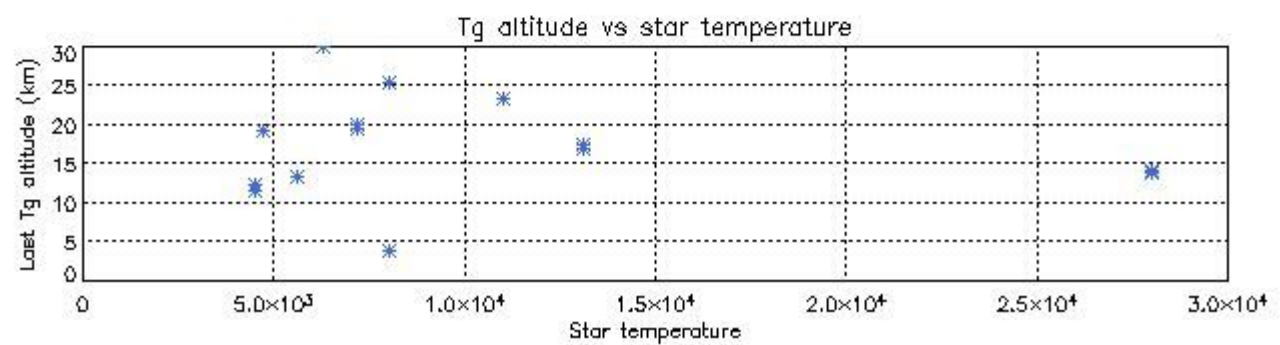
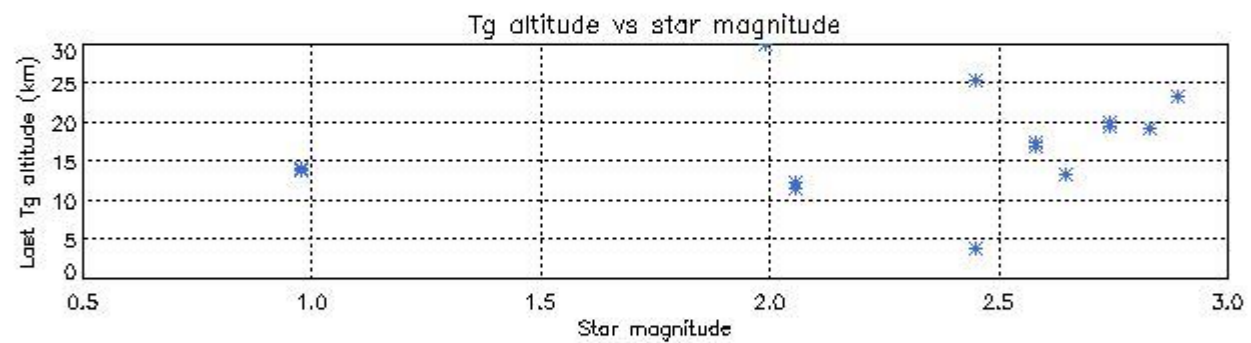
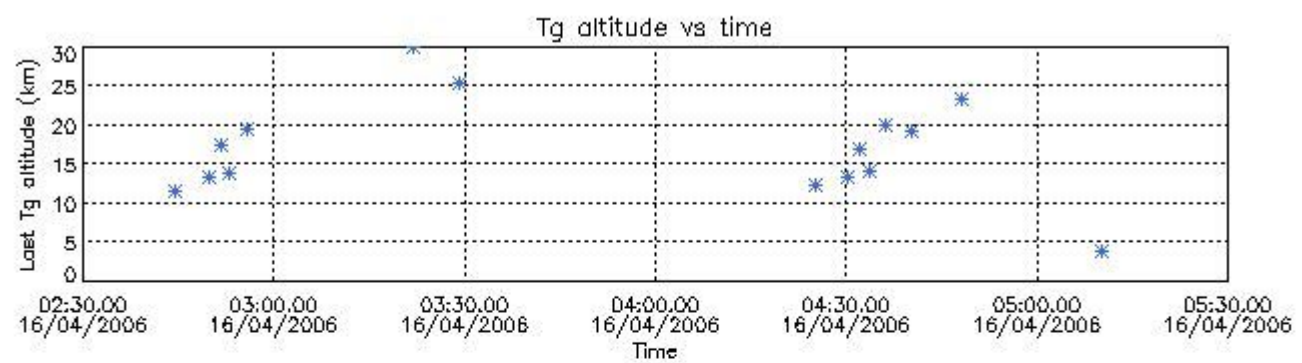
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

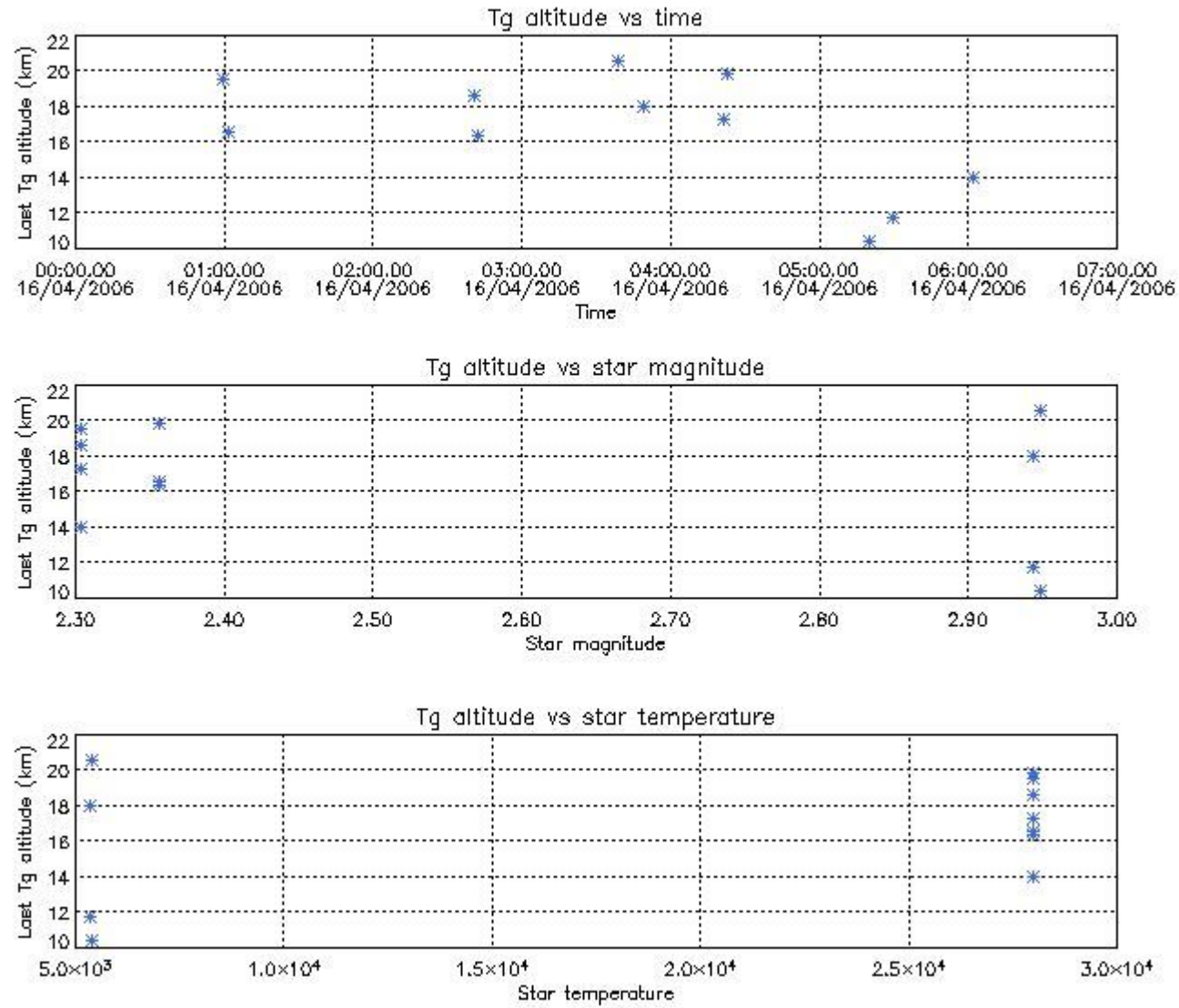
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



## Tangent altitude at which the star is lost



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

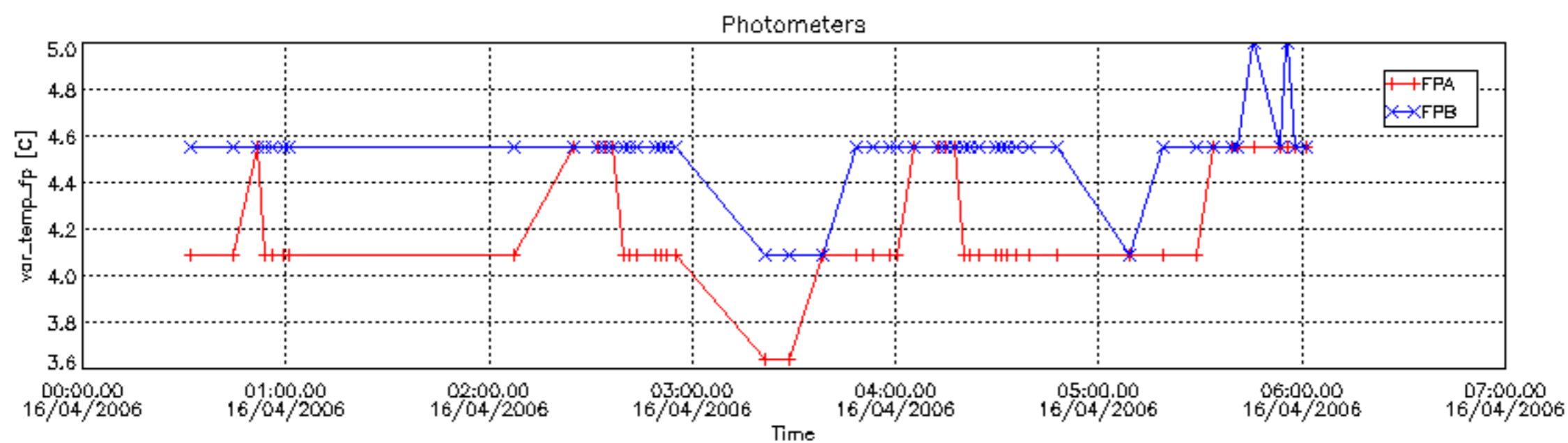
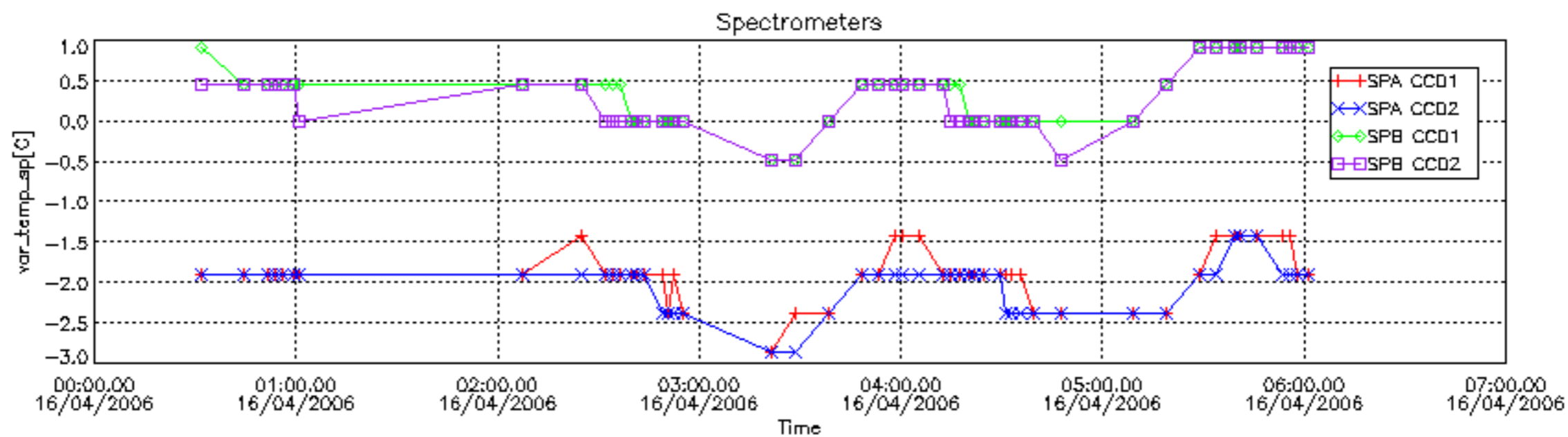
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

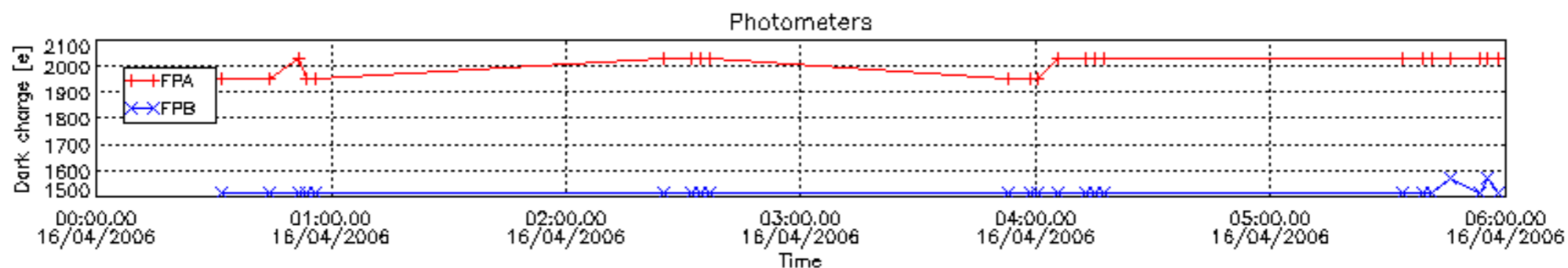
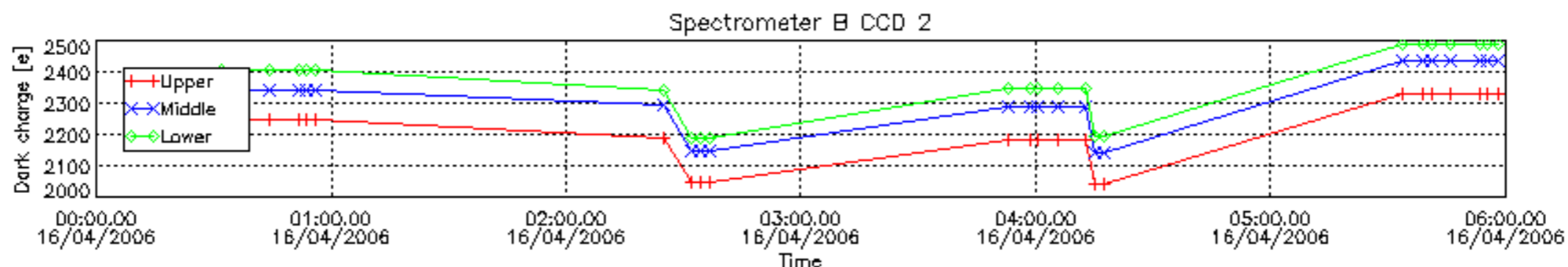
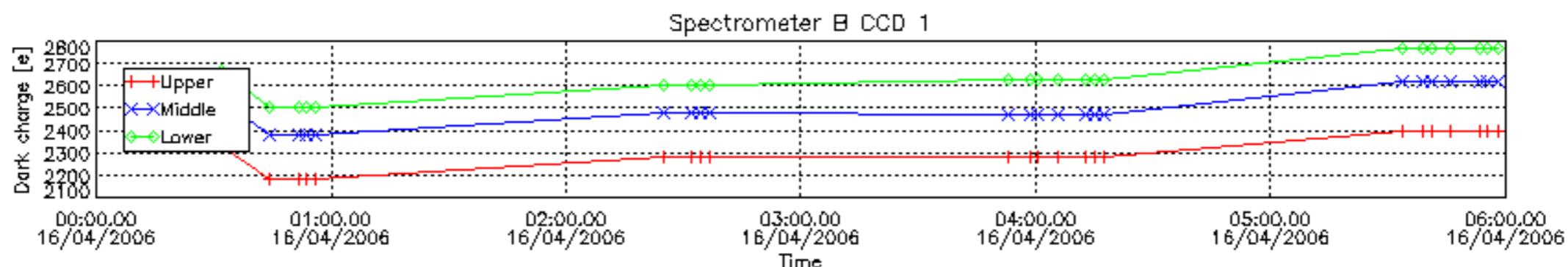
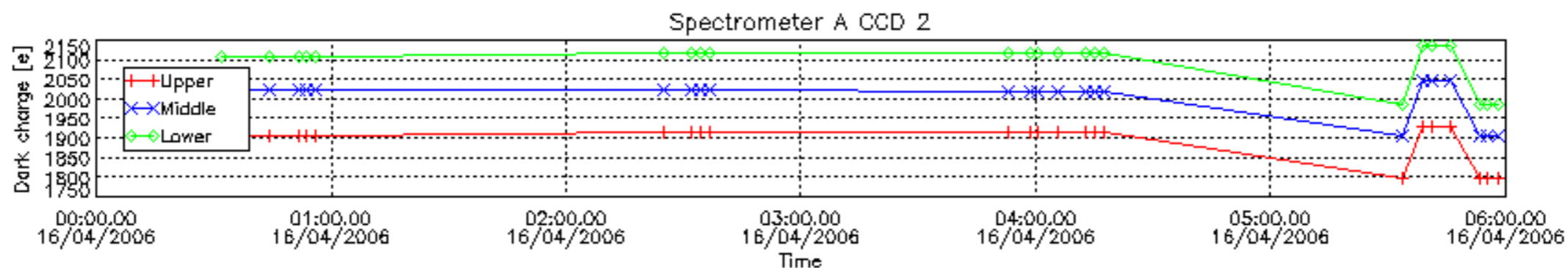
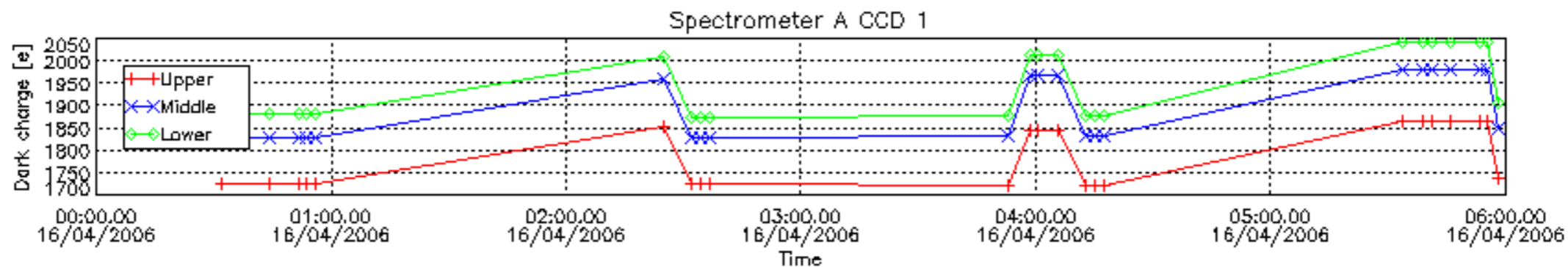
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.5	1446.3	1461.7	1447.1
St. deviation:	5.8666	8.7287	7.4135	11.254
Maximum:	1506.0	1494.0	1513.0	1504.0
Minimum:	1452.0	1428.0	1436.0	1417.0
Number of data:	20500.	20500.	12850.	12850.

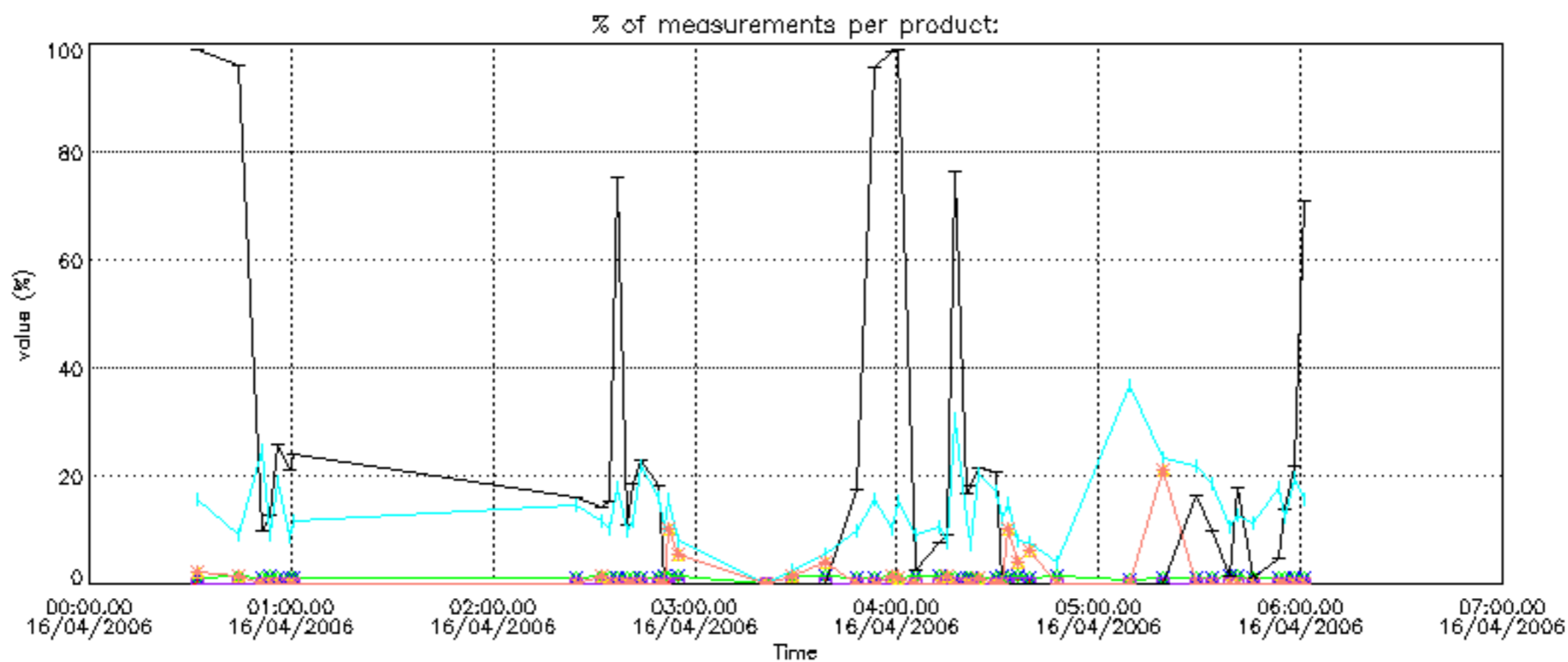
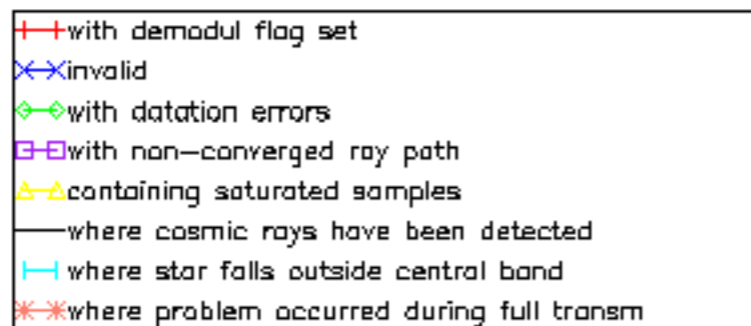
## 8. Auxiliary Data Files used for the production reported in section 2.2

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.

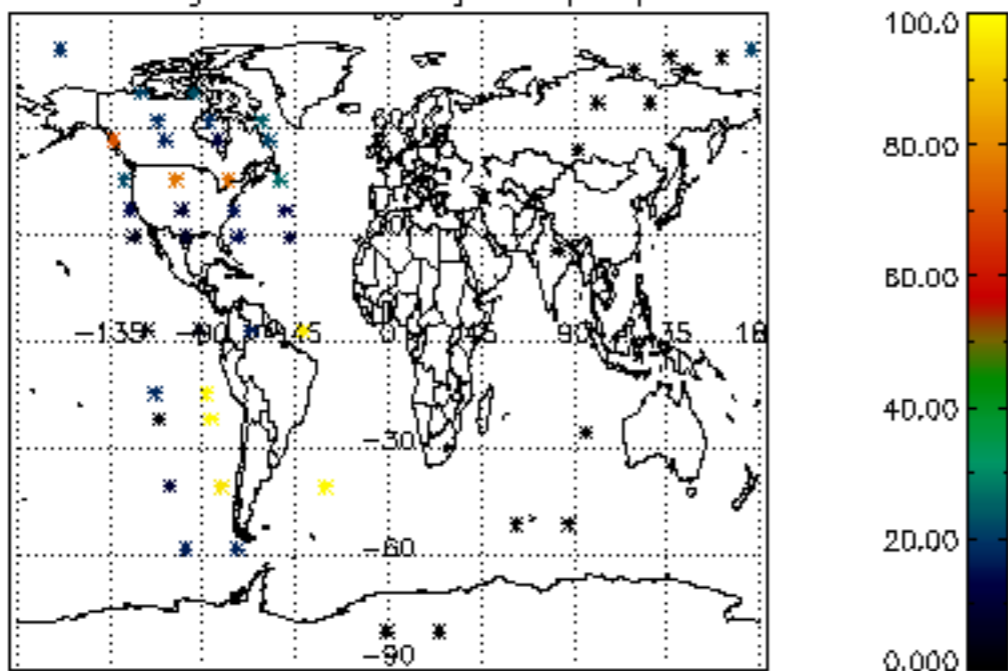
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	16-APR-2006 00:31:56
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060413_081550_20060411_000000_20100101_000000	1	16-APR-2006 00:31:56
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	16-APR-2006 00:31:56
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-APR-2006 00:31:56
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	16-APR-2006 00:31:56
ECMWF_FILE	AUX_ECF_AXNECM20060415_062802_20060415_210000_20060416_090000	1	16-APR-2006 00:31:56
ECMWF_FILE	AUX_ECA_AXNECM20060416_060832_20060415_210000_20060416_090000	20	16-APR-2006 03:21:20
ECMWF_FILE	AUX_ECF_AXNECM20060415_181753_20060416_030000_20060416_150000	21	16-APR-2006 03:28:36
ECMWF_FILE	AUX_ECA_AXNECM20060416_060832_20060415_210000_20060416_090000	40	16-APR-2006 05:09:12
OPTIONAL_ECMWF_FILE	NOT USED	1	16-APR-2006 00:31:56
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060415_225804_20060415_194134_20060425_210749	1	16-APR-2006 00:31:56



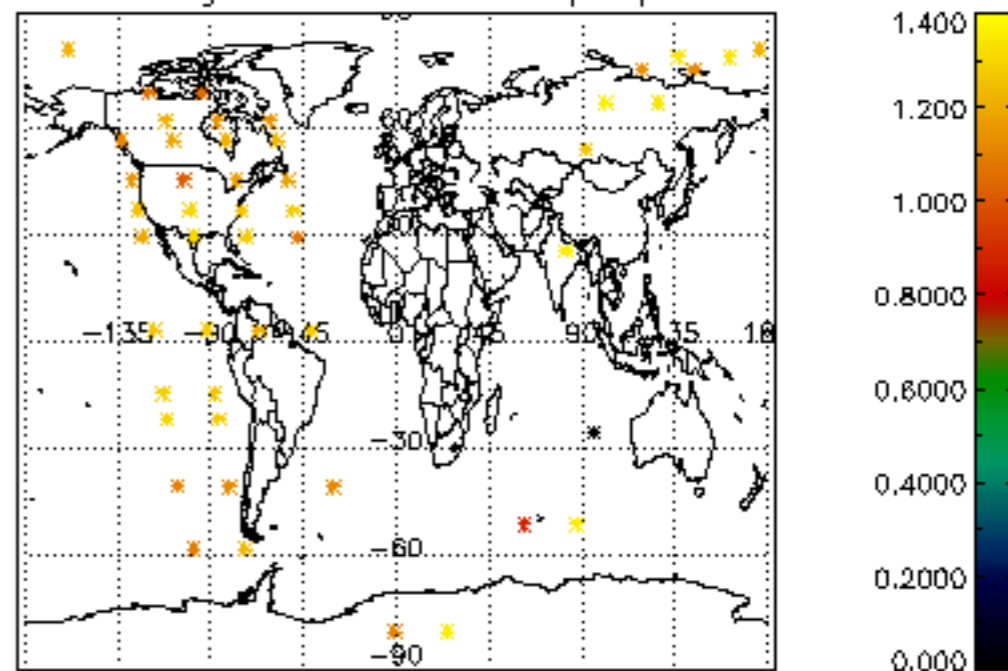




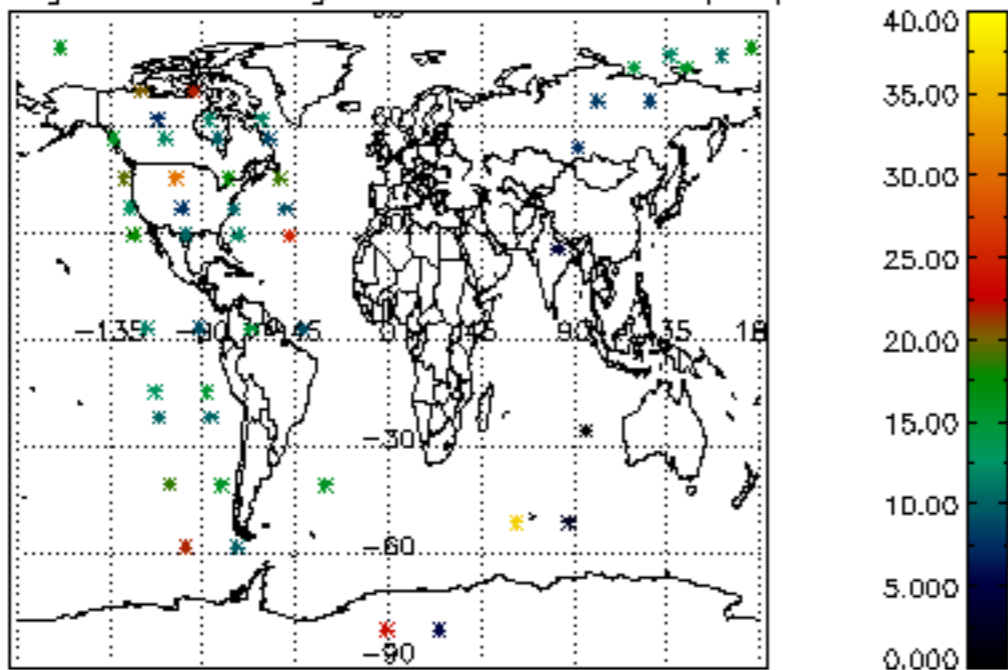
Percentage of cosmic ray hits per profile



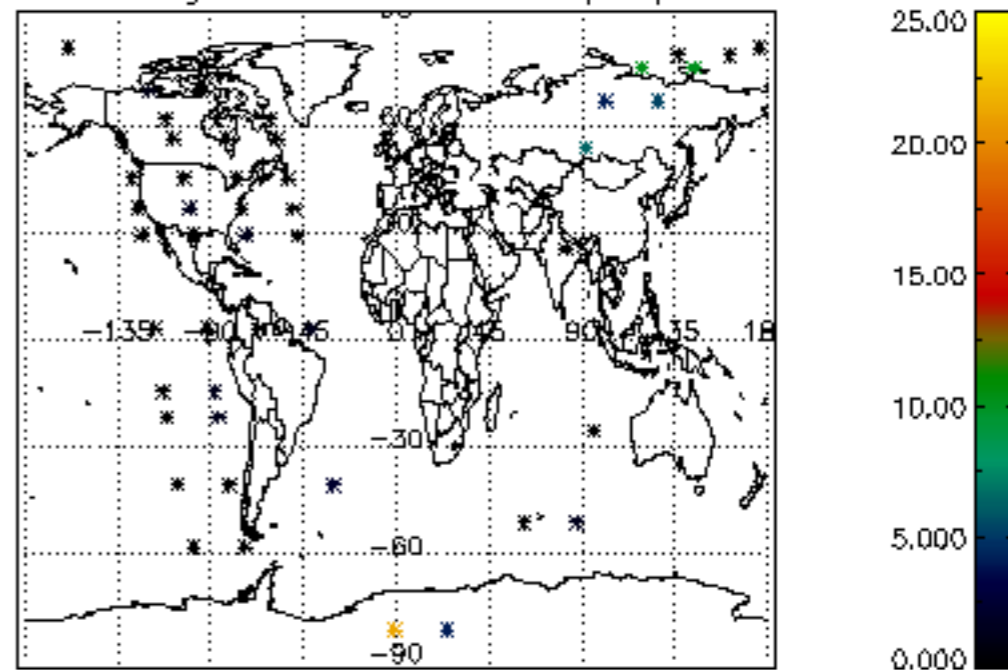
Percentage of datation errors per profile



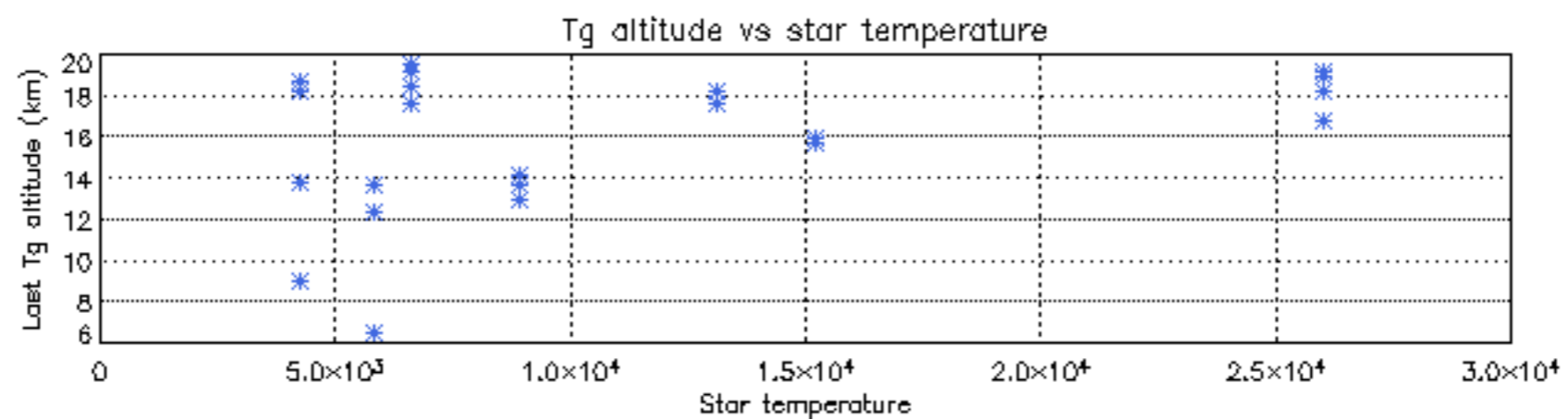
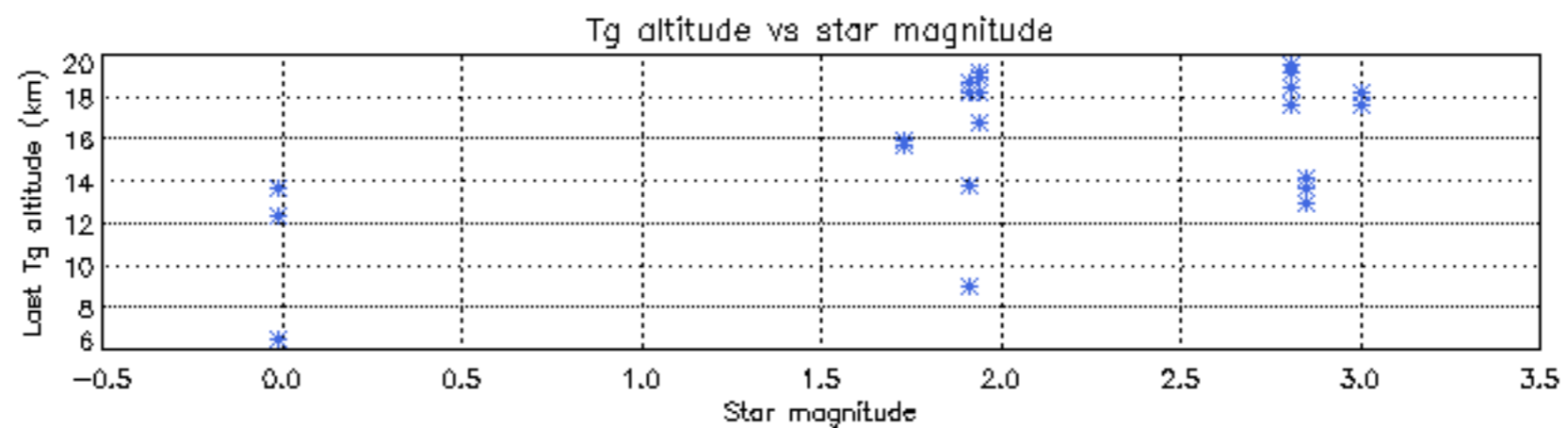
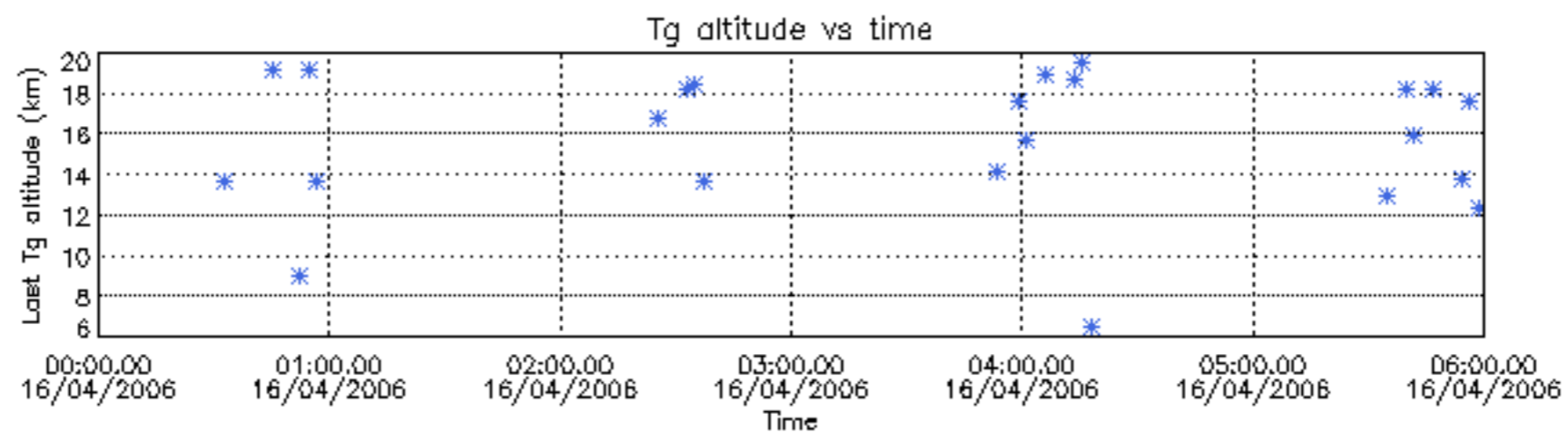
Percentage of star falling outside central band per profile



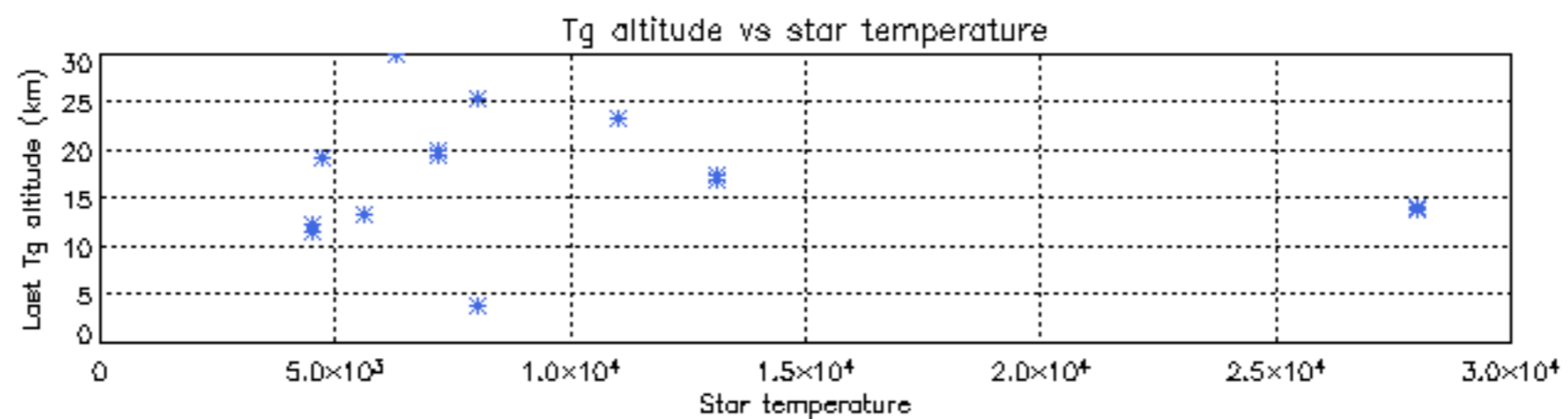
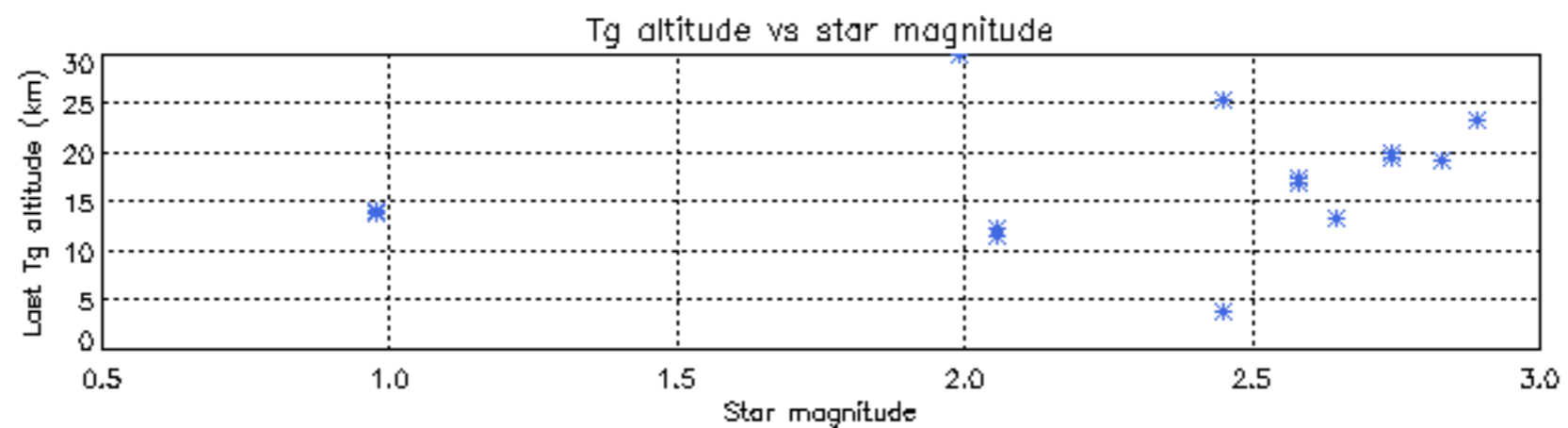
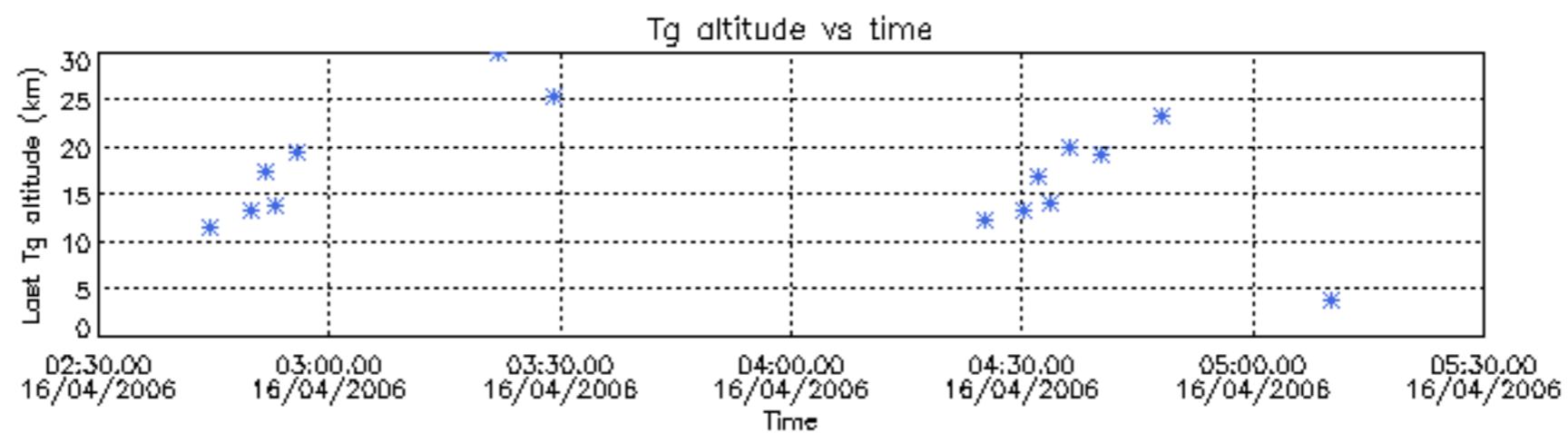
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

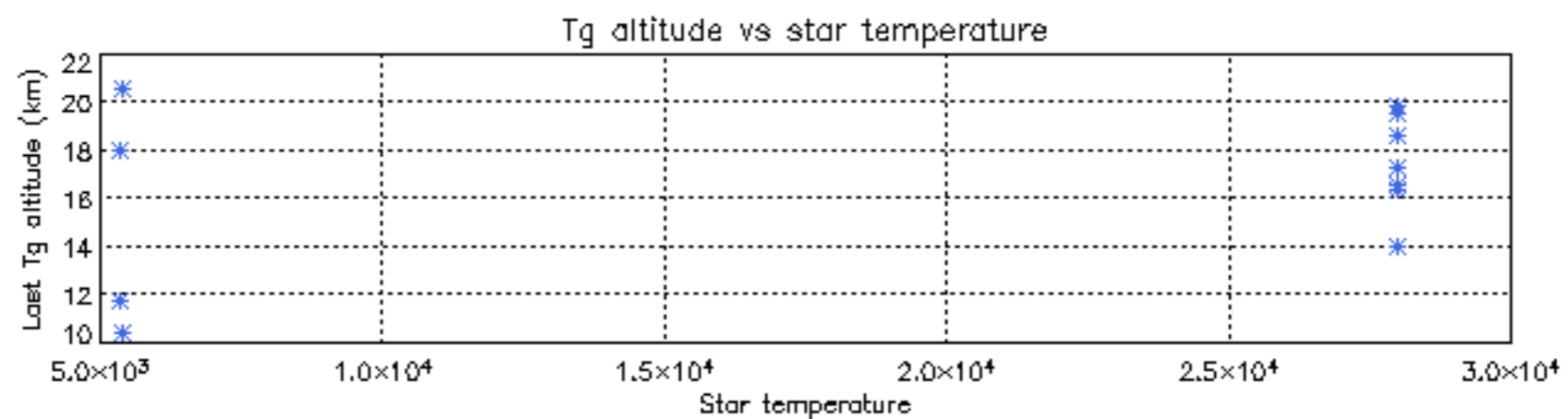
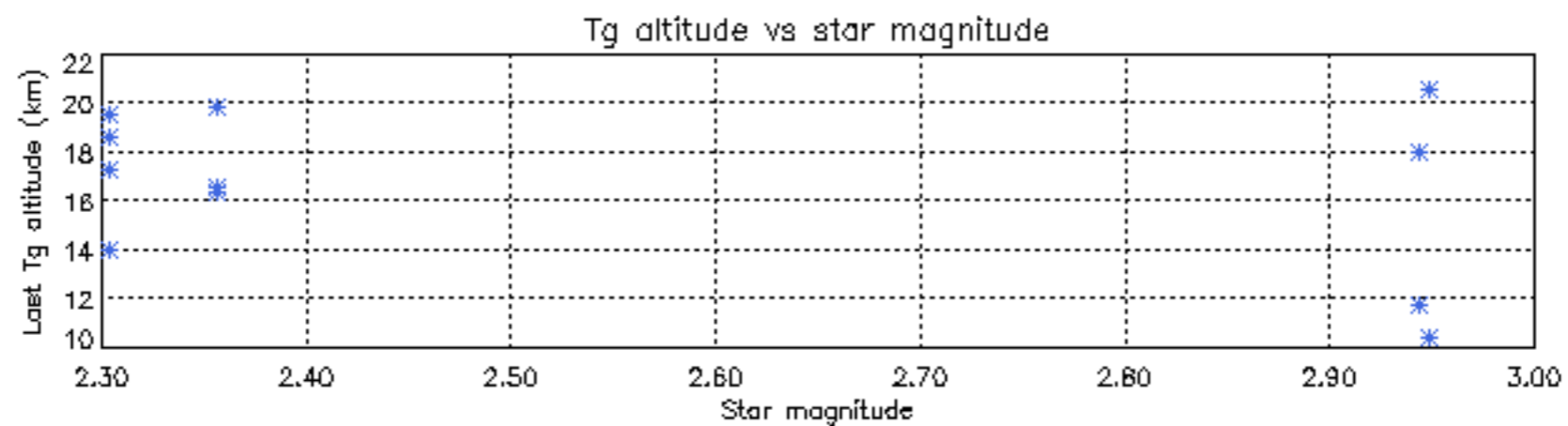
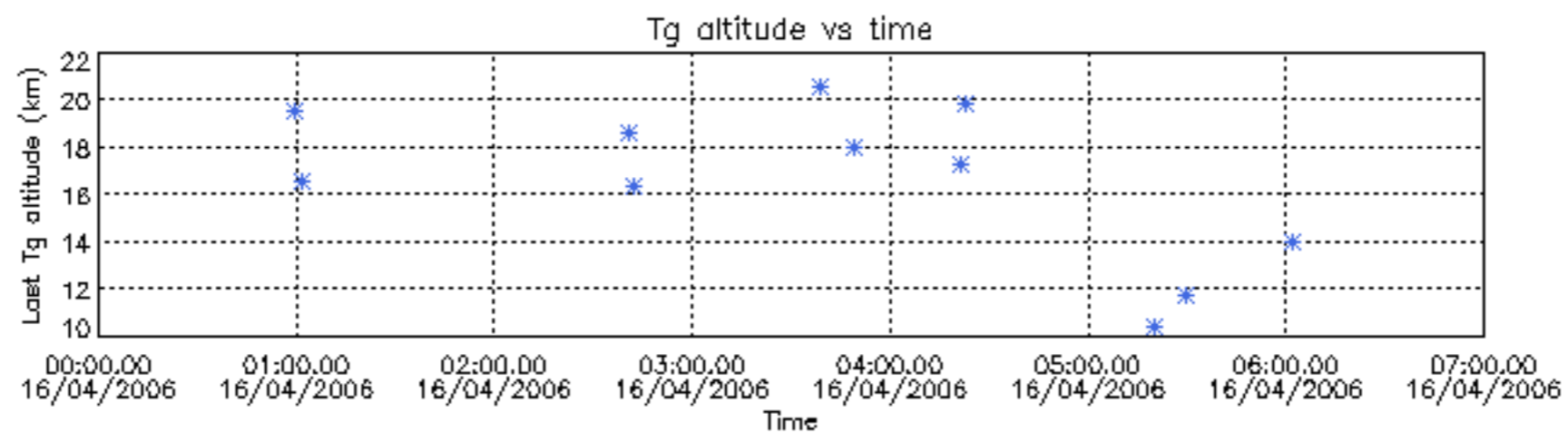


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20060401\_000916\_000054592046\_00259\_21355\_0159.N1

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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  
 6; 934.0; 01-APR-2006 00:30:07; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;21356  
 7; 1013.9; 01-APR-2006 00:31:27; Dark ; 38.5; 64; Gam Cen ; 2.20; 10600;occ; 77; 0;21356  
 8; 1167.7; 01-APR-2006 00:34:00; Dark ; 44.0; 123; Iot Cen ; 2.75; 10200;occ; 88; 0;21356  
 9; 1459.7; 01-APR-2006 00:38:52; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;21356  
 10; 1577.8; 01-APR-2006 00:40:50; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;21356  
 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  
 15; 2958.0; 01-APR-2006 01:03:51; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 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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 3; 6368.8; 01-APR-2006 02:00:41; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;21356  
 4; 6551.4; 01-APR-2006 02:03:44; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;21356  
 5; 6709.9; 01-APR-2006 02:06:23; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;21356  
 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  
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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  
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 8; 516.0; 01-APR-2006 03:44:20; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21358  
 9; 674.6; 01-APR-2006 03:46:59; Dark ; 54.5; 4; Alp1Cen ;-0.01; 5800;occ; 109; 0;21358  
 10; 839.3; 01-APR-2006 03:49:44; Dark ; 45.5; 78; Alp Lup ; 2.30; 28000;occ; 91; 0;21358  
 11; 935.4; 01-APR-2006 03:51:20; Dark ; 42.0; 81; Eta Cen ; 2.36; 28000;occ; 84; 0;21358  
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 13; 1168.5; 01-APR-2006 03:55:13; Dark ; 45.5; 123; Iot Cen ; 2.75; 10200;occ; 91; 0;21358  
 14; 1460.2; 01-APR-2006 04:00:05; Dark ; 47.5; 106; 9Bet Crv ; 2.65; 5600;occ; 95; 0;21358  
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 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  
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 21; 3337.9; 01-APR-2006 04:31:22; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;21358  
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6; -313.9; 01-APR-2006 05:11:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21358
7; 334.3; 01-APR-2006 05:21:55; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;21359
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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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15; 1578.3; 01-APR-2006 05:42:39; Dark ; 44.5; 100; 4Gam Crv ; 2.58; 13100;occ; 89; 0;21359
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3;-1601.5; 01-APR-2006 06:30:15; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;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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11; 936.7; 01-APR-2006 07:12:33; Dark ; 45.0; 81; Eta Cen ; 2.36; 28000;occ; 90; 0;21360
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 2;-4864.3; 01-APR-2006 17:20:04; Dark ; 44.0; 123; Iot Cen ; 2.75; 10200;occ; 88; 0;21366  
 3;-4574.2; 01-APR-2006 17:24:54; Dark ; 45.0; 106; 9Bet Crv ; 2.65; 5600;occ; 90; 0;21366  
 4;-4456.8; 01-APR-2006 17:26:51; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;21366  
 5;-3876.0; 01-APR-2006 17:36:32; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;21366  
 6;-3778.9; 01-APR-2006 17:38:09; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21366  
 7;-3370.2; 01-APR-2006 17:44:58; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;21366  
 8;-3189.6; 01-APR-2006 17:47:59; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;21366  
 9;-3078.5; 01-APR-2006 17:49:50; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;21366  
 10;-2700.8; 01-APR-2006 17:56:07; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;21366  
 11;-2596.0; 01-APR-2006 17:57:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;21366  
 12;-2134.4; 01-APR-2006 18:05:34; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;21366  
 13;-1822.6; 01-APR-2006 18:10:46; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;21366  
 14;-1600.9; 01-APR-2006 18:14:27; Bright; 42.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 84; 0;21366  
 15;-1206.8; 01-APR-2006 18:21:01; Dark ; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;21366  
 16; -930.7; 01-APR-2006 18:25:38; Dark ; 44.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 89; 0;21366  
 17; -307.3; 01-APR-2006 18:36:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21366  
 18; 340.3; 01-APR-2006 18:46:48; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;21367  
 19; 520.6; 01-APR-2006 18:49:49; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21367  
 20; 678.8; 01-APR-2006 18:52:27; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;21367  
 21; 845.0; 01-APR-2006 18:55:13; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;21367  
 22; 1017.5; 01-APR-2006 18:58:06; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;21367

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 2;-4863.9; 01-APR-2006 19:00:40; Dark ; 43.0; 123; Iot Cen ; 2.75; 10200;occ; 86; 0;21367  
 3;-4574.0; 01-APR-2006 19:05:30; Dark ; 45.5; 106; 9Bet Crv ; 2.65; 5600;occ; 91; 0;21367  
 4;-4456.6; 01-APR-2006 19:07:28; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;21367  
 5;-3876.1; 01-APR-2006 19:17:08; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21367  
 6;-3778.9; 01-APR-2006 19:18:45; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21367  
 7;-3370.2; 01-APR-2006 19:25:34; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;21367  
 8;-3189.7; 01-APR-2006 19:28:34; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;21367  
 9;-3078.6; 01-APR-2006 19:30:26; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;21367  
 10;-2701.0; 01-APR-2006 19:36:43; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;21367  
 11;-2596.0; 01-APR-2006 19:38:28; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;21367  
 12;-2134.5; 01-APR-2006 19:46:10; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;21367  
 13;-1822.6; 01-APR-2006 19:51:22; Bright; 41.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 83; 0;21367  
 14;-1600.7; 01-APR-2006 19:55:04; Bright; 42.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 84; 0;21367  
 15;-1206.6; 01-APR-2006 20:01:38; Dark ; 46.5; 61; 8Eps Peg ; 2.10; 3900;occ; 93; 0;21367  
 16; -930.3; 01-APR-2006 20:06:14; Dark ; 44.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 89; 0;21367  
 17; -306.5; 01-APR-2006 20:16:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21367  
 18; 340.9; 01-APR-2006 20:27:25; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;21368  
 19; 521.1; 01-APR-2006 20:30:25; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21368  
 20; 679.2; 01-APR-2006 20:33:03; Dark ; 54.5; 4; Alp1Cen ; -0.01; 5800;occ; 109; 0;21368  
 21; 845.5; 01-APR-2006 20:35:50; Dark ; 47.5; 78; Alp Lup ; 2.30; 28000;occ; 95; 0;21368  
 22; 1017.7; 01-APR-2006 20:38:42; Dark ; 5.0; 64; Gam Cen ; 2.20; 10600;occ; 10; 0;21368

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 2; 343.1; 02-APR-2006 01:29:15; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;21371  
 3; 522.7; 02-APR-2006 01:32:15; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;21371  
 4; 680.5; 02-APR-2006 01:34:52; Dark ; 48.0; 4; Alp1Cen ;-0.01; 5800;occ; 96; 0;21371  
 5; 847.3; 02-APR-2006 01:37:39; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;21371  
 6; 1018.7; 02-APR-2006 01:40:31; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;21371  
 7; 1173.4; 02-APR-2006 01:43:05; Dark ; 42.0; 123; Tot Cen ; 2.75; 10200;occ; 84; 0;21371  
 8; 1462.8; 02-APR-2006 01:47:55; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;21371  
 9; 1579.9; 02-APR-2006 01:49:52; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;21371  
 10; 2159.4; 02-APR-2006 01:59:31; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;21371  
 11; 2257.1; 02-APR-2006 02:01:09; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21371  
 12; 2665.5; 02-APR-2006 02:07:57; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;21371  
 13; 2845.4; 02-APR-2006 02:10:57; Bright; 38.5; 87; 64Gam UMa ; 2.43; 11000;occ; 77; 0;21371  
 14; 2957.1; 02-APR-2006 02:12:49; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;21371  
 15; 3333.6; 02-APR-2006 02:19:05; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;21371  
 16; 3440.0; 02-APR-2006 02:20:52; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;21371

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 2;-1822.7; 02-APR-2006 02:33:45; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;21371  
 3;-1600.3; 02-APR-2006 02:37:27; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;21371  
 4;-1205.3; 02-APR-2006 02:44:03; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;21371  
 5; -928.8; 02-APR-2006 02:48:39; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;21371  
 6; -303.2; 02-APR-2006 02:59:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21371  
 7; 344.0; 02-APR-2006 03:09:52; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;21372  
 8; 523.3; 02-APR-2006 03:12:51; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;21372  
 9; 681.1; 02-APR-2006 03:15:29; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;21372  
 10; 848.1; 02-APR-2006 03:18:16; Dark ; 46.0; 78; Alp Lup ; 2.30; 28000;occ; 92; 0;21372  
 11; 1019.0; 02-APR-2006 03:21:07; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;21372  
 12; 1174.0; 02-APR-2006 03:23:42; Dark ; 46.0; 123; Tot Cen ; 2.75; 10200;occ; 92; 0;21372  
 13; 1463.1; 02-APR-2006 03:28:31; Dark ; 45.0; 106; 9Bet Crv ; 2.65; 5600;occ; 90; 0;21372  
 14; 1580.1; 02-APR-2006 03:30:28; Dark ; 43.0; 100; 4Gam Crv ; 2.58; 13100;occ; 86; 0;21372  
 15; 2159.4; 02-APR-2006 03:40:07; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21372  
 16; 2257.2; 02-APR-2006 03:41:45; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21372  
 17; 2665.4; 02-APR-2006 03:48:33; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;21372  
 18; 2845.2; 02-APR-2006 03:51:33; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;21372  
 19; 2957.2; 02-APR-2006 03:53:25; Bright; 34.0; 36; 50Alp UMa ; 1.80; 6300;occ; 68; 0;21372  
 20; 3333.3; 02-APR-2006 03:59:41; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;21372  
 21; 3440.1; 02-APR-2006 04:01:28; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;21372

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 2;-1822.7; 02-APR-2006 04:14:21; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;21372  
 3;-1600.3; 02-APR-2006 04:18:04; Bright; 43.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 87; 0;21372  
 4;-1205.1; 02-APR-2006 04:24:39; Dark ; 43.5; 61; 8Eps Peg ; 2.10; 3900;occ; 87; 0;21372  
 5; -928.4; 02-APR-2006 04:29:15; Dark ; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;21372  
 6; -302.3; 02-APR-2006 04:39:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21372  
 7; 344.6; 02-APR-2006 04:50:28; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;21373  
 8; 523.8; 02-APR-2006 04:53:28; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21373  
 9; 681.5; 02-APR-2006 04:56:05; Dark ; 51.0; 4; Alp1Cen ;-0.01; 5800;occ; 102; 0;21373  
 10; 848.7; 02-APR-2006 04:58:52; Dark ; 45.0; 78; Alp Lup ; 2.30; 28000;occ; 90; 0;21373  
 11; 1019.3; 02-APR-2006 05:01:43; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;21373  
 12; 1174.3; 02-APR-2006 05:04:18; Dark ; 42.0; 123; Tot Cen ; 2.75; 10200;occ; 84; 0;21373  
 13; 1463.2; 02-APR-2006 05:09:07; Dark ; 45.5; 106; 9Bet Crv ; 2.65; 5600;occ; 91; 0;21373  
 14; 1580.2; 02-APR-2006 05:11:04; Dark ; 43.5; 100; 4Gam Crv ; 2.58; 13100;occ; 87; 0;21373  
 15; 2159.2; 02-APR-2006 05:20:43; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;21373  
 16; 2257.3; 02-APR-2006 05:22:21; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21373  
 17; 2665.4; 02-APR-2006 05:29:09; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;21373  
 18; 2845.0; 02-APR-2006 05:32:09; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;21373  
 19; 2957.2; 02-APR-2006 05:34:01; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;21373  
 20; 3333.0; 02-APR-2006 05:40:17; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;21373  
 21; 3440.1; 02-APR-2006 05:42:04; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;21373

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 3; 4435.9; 02-APR-2006 05:58:40; Bright; 41.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 83; 0;21373  
 4; 4831.2; 02-APR-2006 06:05:15; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;21373  
 5; 5107.9; 02-APR-2006 06:09:52; Dark ; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;21373  
 6; 5734.6; 02-APR-2006 06:20:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21373

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8; 6560.3; 02-APR-2006 06:34:04; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;21373
9; 6718.0; 02-APR-2006 06:36:42; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;21373
10; 6885.3; 02-APR-2006 06:39:29; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;21373
11; 7055.6; 02-APR-2006 06:42:19; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;21373
12; 7210.8; 02-APR-2006 06:44:55; Dark ; 44.5; 123; Tot Cen ; 2.75; 10200;occ; 89; 0;21373
13; 7499.4; 02-APR-2006 06:49:43; Dark ; 44.5; 106; 9Bet Crv ; 2.65; 5600;occ; 89; 0;21373
14; 7616.4; 02-APR-2006 06:51:40; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;21373
15; 8195.2; 02-APR-2006 07:01:19; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;21373
16; 8293.2; 02-APR-2006 07:02:57; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21373
17; 8701.3; 02-APR-2006 07:09:45; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;21373
18; 8880.7; 02-APR-2006 07:12:44; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;21373
19; 8993.1; 02-APR-2006 07:14:37; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;21373
20; 9368.7; 02-APR-2006 07:20:52; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;21373
21; 9476.1; 02-APR-2006 07:22:40; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;21373
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3; 1111.8; 02-APR-2006 20:08:39; Dark ; 26.0; 54; 5The Cen ; 2.06; 4500;occ; 52; 0;21382
4; 1177.7; 02-APR-2006 20:09:45; Dark ; 43.0; 123; Tot Cen ; 2.75; 10200;occ; 86; 0;21382
5; 1435.3; 02-APR-2006 20:14:03; Dark ; 27.0; 169; 46Gam Hya ; 2.99; 4700;occ; 54; 0;21382
6; 1495.0; 02-APR-2006 20:15:03; Dark ; 44.0; 171; 2Eps Crv ; 3.00; 4250;occ; 88; 0;21382
7; 1581.4; 02-APR-2006 20:16:29; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;21382
8; 1880.6; 02-APR-2006 20:21:28; Bright; 42.0; 121; 29Gam Vir ; 2.74; 7200;occ; 84; 0;21382
9; 2158.4; 02-APR-2006 20:26:06; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21382
10; 2257.1; 02-APR-2006 20:27:45; Bright; 50.0; 96; 68Del Leo ; 2.56; 9300;occ; 100; 0;21382
11; 2664.8; 02-APR-2006 20:34:32; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;21382
12; 2842.9; 02-APR-2006 20:37:30; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;21382
13; 2956.6; 02-APR-2006 20:39:24; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;21382
14; 3329.9; 02-APR-2006 20:45:37; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;21382
15; 3440.1; 02-APR-2006 20:47:28; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;21382
16; 3900.6; 02-APR-2006 20:55:08; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;21382
17; 4212.8; 02-APR-2006 21:00:20; Bright; 40.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 80; 0;21382
18; 4833.7; 02-APR-2006 21:10:41; Dark ; 45.0; 61; 8Eps Peg ; 2.10; 3900;occ; 90; 0;21382
19; 5111.5; 02-APR-2006 21:15:19; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;21382
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3; 528.8; 02-APR-2006 21:39:32; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21383
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5; 854.7; 02-APR-2006 21:44:58; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;21383
6; 1022.3; 02-APR-2006 21:47:46; Dark ; 38.5; 64; Gam Cen ; 2.20; 10600;occ; 77; 0;21383
7; 1112.4; 02-APR-2006 21:49:16; Dark ; 26.0; 54; 5The Cen ; 2.06; 4500;occ; 52; 0;21383
8; 1178.0; 02-APR-2006 21:50:21; Dark ; 43.0; 123; Tot Cen ; 2.75; 10200;occ; 86; 0;21383
9; 1435.4; 02-APR-2006 21:54:39; Dark ; 27.0; 169; 46Gam Hya ; 2.99; 4700;occ; 54; 0;21383
10; 1495.1; 02-APR-2006 21:55:39; Dark ; 42.5; 171; 2Eps Crv ; 3.00; 4250;occ; 85; 0;21383
11; 1581.5; 02-APR-2006 21:57:05; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;21383
12; 1880.4; 02-APR-2006 22:02:04; Bright; 41.5; 121; 29Gam Vir ; 2.74; 7200;occ; 83; 0;21383
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2; -1566.6; 13-APR-2006 06:53:53; Bright; 36.5; 164; 44Eta Peg ; 2.95; 5400;occ; 73; 0;21531
3; -1151.2; 13-APR-2006 07:00:48; Dark ; 56.5; 61; 8Eps Peg ; 2.10; 3900;occ; 113; 0;21531
4; -1003.1; 13-APR-2006 07:03:16; Dark ; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;21531

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6; -707.0; 13-APR-2006 07:08:12; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;21531  
7; -385.7; 13-APR-2006 07:13:34; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;21531  
8; -91.9; 13-APR-2006 07:18:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21531  
9; 32.8; 13-APR-2006 07:20:32; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;21532  
10; 478.8; 13-APR-2006 07:27:58; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;21532  
11; 602.3; 13-APR-2006 07:30:02; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21532  
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13;	-1002.0;	13-APR-2006	12:05:05;	Dark	;	41.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	83;	0;	21534
14;	-850.7;	13-APR-2006	12:07:36;	Dark	;	47.0;	154;	22Bet Aqr	;	2.90;	5700;occ;	94;	0;	21534
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16;	-384.3;	13-APR-2006	12:15:23;	Dark	;	38.5;	172;	Gam Gru	;	3.00;	13100;occ;	77;	0;	21534
17;	-90.3;	13-APR-2006	12:20:17;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;	21534	
18;	34.3;	13-APR-2006	12:22:21;	Dark	;	38.5;	45;	Alp Pav	;	1.94;	26000;occ;	77;	0;	21535
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21;	750.3;	13-APR-2006	12:34:17;	Dark	;	44.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	89;	0;	21535
22;	937.6;	13-APR-2006	12:37:25;	Dark	;	42.5;	78;	Alp Lup	;	2.30;	28000;occ;	85;	0;	21535
23;	1033.6;	13-APR-2006	12:39:01;	Dark	;	45.0;	81;	Eta Cen	;	2.36;	28000;occ;	90;	0;	21535
24;	1178.9;	13-APR-2006	12:41:26;	Dark	;	45.0;	54;	5The Cen	;	2.06;	4500;occ;	90;	0;	21535
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2;	-4161.1;	13-APR-2006	12:53:02;	Bright;	38.5;	121;	29Gam Vir	;	2.74;	7200;occ;	77;	0;	21535	
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11;	-1565.9;	13-APR-2006	13:36:17;	Bright;	53.0;	164;	44Eta Peg	;	2.95;	5400;occ;	106;	0;	21535	
12;	-1149.5;	13-APR-2006	13:43:14;	Dark	;	51.0;	61;	8Eps Peg	;	2.10;	3900;occ;	102;	0;	21535
13;	-1001.5;	13-APR-2006	13:45:42;	Dark	;	43.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	87;	0;	21535
14;	-850.1;	13-APR-2006	13:48:13;	Dark	;	49.5;	154;	22Bet Aqr	;	2.90;	5700;occ;	99;	0;	21535
15;	-704.8;	13-APR-2006	13:50:38;	Dark	;	40.5;	142;	49Del Cap	;	2.85;	8900;occ;	81;	0;	21535
16;	-383.9;	13-APR-2006	13:55:59;	Dark	;	39.5;	172;	Gam Gru	;	3.00;	13100;occ;	79;	0;	21535
17;	-89.8;	13-APR-2006	14:00:53;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;	21535	
18;	34.8;	13-APR-2006	14:02:58;	Dark	;	46.5;	45;	Alp Pav	;	1.94;	26000;occ;	93;	0;	21536
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4;	-4161.0;	13-APR-2006	14:33:38;	Bright;	38.5;	121;	29Gam Vir	;	2.74;	7200;occ;	77;	0;	21536	
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7;	-2753.3;	13-APR-2006	14:57:06;	Bright;	35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;	21536	
8;	-2593.4;	13-APR-2006	14:59:46;	Bright;	34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	21536	
9;	-2151.6;	13-APR-2006	15:07:07;	Bright;	38.0;	89;	5Alp Cep	;	2.45;	8000;occ;	76;	0;	21536	
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11;	-1149.2;	13-APR-2006	15:23:50;	Dark	;	53.5;	61;	8Eps Peg	;	2.10;	3900;occ;	107;	0;	21536
12;	-1001.1;	13-APR-2006	15:26:18;	Dark	;	47.0;	162;	34Alp Aqr	;	2.94;	5350;occ;	94;	0;	21536
13;	-849.6;	13-APR-2006	15:28:49;	Dark	;	48.5;	154;	22Bet Aqr	;	2.90;	5700;occ;	97;	0;	21536
14;	-704.3;	13-APR-2006	15:31:15;	Dark	;	44.5;	142;	49Del Cap	;	2.85;	8900;occ;	89;	0;	21536
15;	-383.4;	13-APR-2006	15:36:36;	Dark	;	38.0;	172;	Gam Gru	;	3.00;	13100;occ;	76;	0;	21536
16;	-89.3;	13-APR-2006	15:41:30;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;	21536	
17;	35.3;	13-APR-2006	15:43:34;	Dark	;	47.5;	45;	Alp Pav	;	1.94;	26000;occ;	95;	0;	21537
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 28; 1104.5; 25-APR-2006 18:05:02; Dark ; 12.0; 81; Eta Cen ; 2.36; 28000;occ; 24; 0;21710

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 22; 132.3; 25-APR-2006 19:29:26; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;21711  
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 24; 679.1; 25-APR-2006 19:38:33; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;21711  
 25; 810.1; 25-APR-2006 19:40:44; Dark ; 49.0; 4; Alp1Cen ; -0.01; 5800;occ; 98; 0;21711

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 8; 6715.7; 25-APR-2006 22:59:46; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 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  
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 8; 701.9; 29-APR-2006 22:34:16; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;21770  
 9; 826.9; 29-APR-2006 22:36:21; Dark ; 51.0; 4; Alp1Cen ; -0.01; 5800;occ; 102; 0;21770  
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12; 825.4; 29-APR-2006 07:30:56; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;21761  
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8; 3444.0; 29-APR-2006 08:14:35; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;21761  
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13; 5653.1; 29-APR-2006 08:51:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21761  
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13; 5653.6; 29-APR-2006 10:32:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21762  
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