

# GOMOS Daily Report 08-JAN-2006

## Level 0 and Level 1 products

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### 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	10JAN2006 04:31:34

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (08JAN2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (09JAN2006 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)

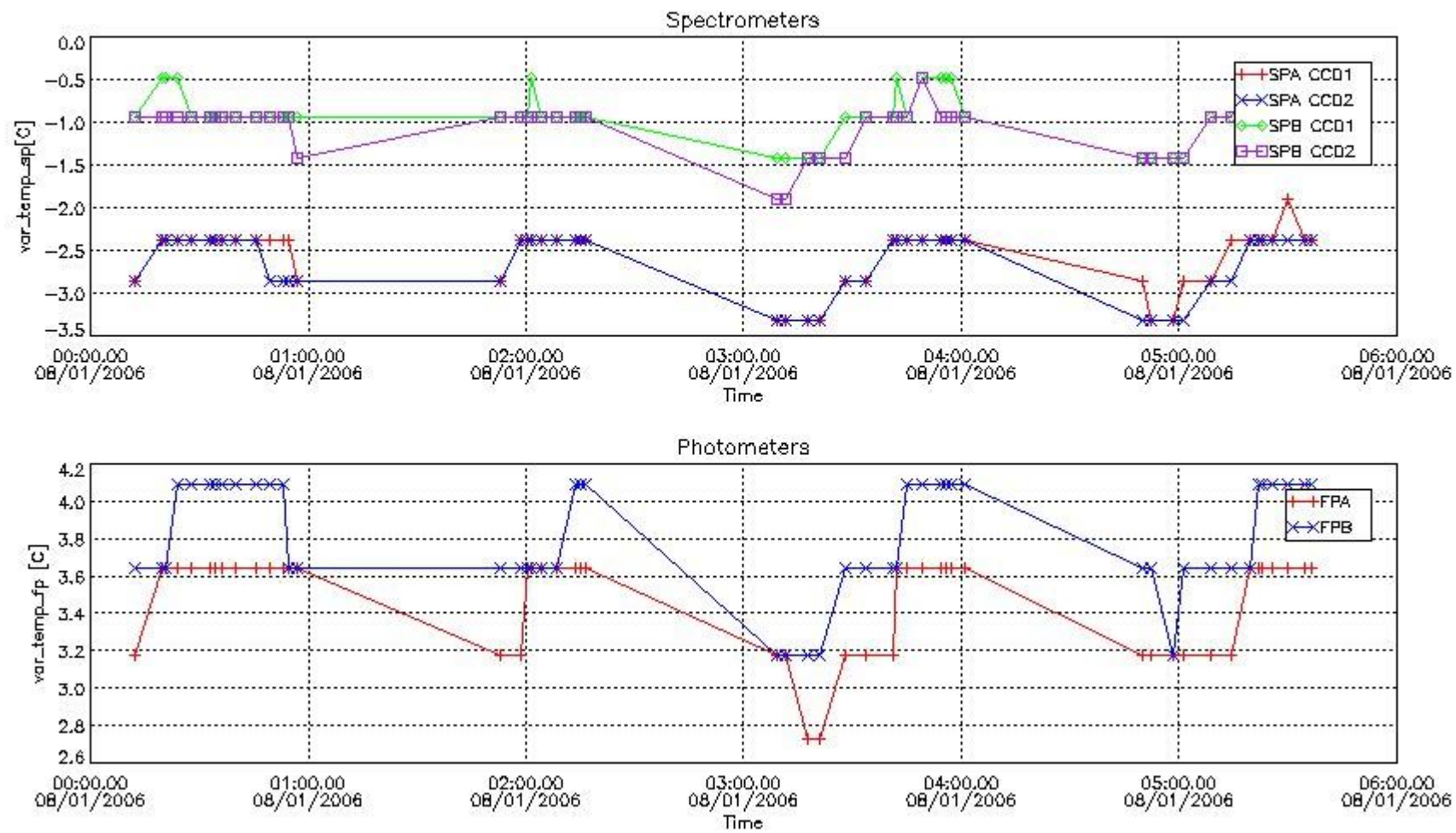
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060108_001221_000000412044_00073_20167_0000.N1	08-JAN-2006 00:12:21	Twilight	41.000	80	7Del Sco	2.3160	30000.	82	20167	No
2	GOM_TRA_1PNPDE20060108_001956_000000322044_00073_20167_0001.N1	08-JAN-2006 00:19:56	Dark	32.000	81	Eta Cen	2.3560	28000.	64	20167	No
3	GOM_TRA_1PNPDE20060108_002050_000000392044_00073_20167_0002.N1	08-JAN-2006 00:20:50	Dark	38.500	78	Alp Lup	2.3040	28000.	77	20167	No
4	GOM_TRA_1PNPDE20060108_002345_000000432044_00074_20168_0003.N1	08-JAN-2006 00:23:45	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	20168	No
5	GOM_TRA_1PNPDE20060108_002754_000000412044_00074_20168_0004.N1	08-JAN-2006 00:27:54	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	20168	No
6	GOM_TRA_1PNPDE20060108_003254_000000382044_00074_20168_0005.N1	08-JAN-2006 00:32:54	Dark	38.000	29	Bet Car	1.6720	10200.	76	20168	No
7	GOM_TRA_1PNPDE20060108_003434_000000402044_00074_20168_0006.N1	08-JAN-2006 00:34:34	Dark	39.500	71	Iot Car	2.2460	7700.0	79	20168	No
8	GOM_TRA_1PNPDE20060108_003600_000000522044_00074_20168_0007.N1	08-JAN-2006 00:36:00	Dark	52.000	41	Eps Car	1.8600	4100.0	104	20168	No
9	GOM_TRA_1PNPDE20060108_003955_000000472044_00074_20168_0008.N1	08-JAN-2006 00:39:55	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	20168	No
10	GOM_TRA_1PNPDE20060108_004531_000000402044_00074_20168_0009.N1	08-JAN-2006 00:45:31	Dark	40.000	108	Alp Col	2.6520	15200.	80	20168	No
11	GOM_TRA_1PNPDE20060108_004935_000000422044_00074_20168_0010.N1	08-JAN-2006 00:49:35	Twilight	41.500	47	2Bet CMa	1.9760	28000.	83	20168	No
12	GOM_TRA_1PNPDE20060108_005256_000000472044_00074_20168_0011.N1	08-JAN-2006 00:52:56	Bright	46.500	7	19Bet Ori	0.10000	14000.	93	20168	No
13	GOM_TRA_1PNPDE20060108_005442_000000432044_00074_20168_0012.N1	08-JAN-2006 00:54:42	Bright	43.000	30	46Eps Ori	1.6940	30000.	86	20168	No
14	GOM_TRA_1PNPDE20060108_005703_000000492044_00074_20168_0013.N1	08-JAN-2006 00:57:03	Bright	49.000	14	58Alp Ori	0.87000	3000.0	98	20168	No
15	GOM_TRA_1PNPDE20060108_015258_000000422044_00074_20168_0000.N1	08-JAN-2006 01:52:58	Twilight	42.000	80	7Del Sco	2.3160	30000.	84	20168	No
16	GOM_TRA_1PNPDE20060108_015824_000000382044_00074_20168_0001.N1	08-JAN-2006 01:58:24	Twilight	38.000	131	Gam Lup	2.8000	26000.	76	20168	No
17	GOM_TRA_1PNPDE20060108_020032_000000232044_00074_20168_0002.N1	08-JAN-2006 02:00:32	Dark	23.000	81	Eta Cen	2.3560	28000.	46	20168	No
18	GOM_TRA_1PNPDE20060108_020126_000000412044_00074_20168_0003.N1	08-JAN-2006 02:01:26	Dark	40.500	78	Alp Lup	2.3040	28000.	81	20168	No
19	GOM_TRA_1PNPDE20060108_020422_000000412044_00075_20169_0004.N1	08-JAN-2006 02:04:22	Dark	40.500	4	Alp1Cen	-0.010000	5800.0	81	20169	No
20	GOM_TRA_1PNPDE20060108_020830_000000422044_00075_20169_0005.N1	08-JAN-2006 02:08:30	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	20169	No
21	GOM_TRA_1PNPDE20060108_021330_000000422044_00075_20169_0006.N1	08-JAN-2006 02:13:30	Dark	42.000	29	Bet Car	1.6720	10200.	84	20169	No
22	GOM_TRA_1PNPDE20060108_021511_000000442044_00075_20169_0007.N1	08-JAN-2006 02:15:11	Dark	43.500	71	Iot Car	2.2460	7700.0	87	20169	No
23	GOM_TRA_1PNPDE20060108_021636_000000442044_00075_20169_0008.N1	08-JAN-2006 02:16:36	Dark	44.000	41	Eps Car	1.8600	4100.0	88	20169	No
24	GOM_TRA_1PNPDE20060108_030912_000000362044_00075_20169_0000.N1	08-JAN-2006 03:09:12	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	20169	No
25	GOM_TRA_1PNPDE20060108_031132_000000342044_00075_20169_0001.N1	08-JAN-2006 03:11:32	Bright	33.500	130	23Bet Dra	2.7990	5800.0	67	20169	No
26	GOM_TRA_1PNPDE20060108_031745_000000352044_00075_20169_0002.N1	08-JAN-2006 03:17:45	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	20169	No
27	GOM_TRA_1PNPDE20060108_032045_000000342044_00075_20169_0003.N1	08-JAN-2006 03:20:45	Bright	34.000	127	27Bet Her	2.7810	4700.0	68	20169	No
28	GOM_TRA_1PNPDE20060108_032806_000000372044_00075_20169_0004.N1	08-JAN-2006 03:28:06	Twilight	36.500	120	1Del Oph	2.7340	3200.0	73	20169	No
29	GOM_TRA_1PNPDE20060108_033334_000000412044_00075_20169_0005.N1	08-JAN-2006 03:33:34	Twilight	41.000	80	7Del Sco	2.3160	30000.	82	20169	No
30	GOM_TRA_1PNPDE20060108_034109_000000232044_00075_20169_0006.N1	08-JAN-2006 03:41:09	Dark	23.000	81	Eta Cen	2.3560	28000.	46	20169	No
31	GOM_TRA_1PNPDE20060108_034203_000000382044_00075_20169_0007.N1	08-JAN-2006 03:42:03	Dark	38.000	78	Alp Lup	2.3040	28000.	76	20169	No
32	GOM_TRA_1PNPDE20060108_034458_000000502044_00076_20170_0008.N1	08-JAN-2006 03:44:58	Dark	50.000	4	Alp1Cen	-0.010000	5800.0	100	20170	No
33	GOM_TRA_1PNPDE20060108_034907_000000432044_00076_20170_0009.N1	08-JAN-2006 03:49:07	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	20170	No
34	GOM_TRA_1PNPDE20060108_035407_000000382044_00076_20170_0010.N1	08-JAN-2006 03:54:07	Dark	37.500	29	Bet Car	1.6720	10200.	75	20170	No
35	GOM_TRA_1PNPDE20060108_035547_000000412044_00076_20170_0011.N1	08-JAN-2006 03:55:47	Dark	41.000	71	Iot Car	2.2460	7700.0	82	20170	No
36	GOM_TRA_1PNPDE20060108_035712_000000442044_00076_20170_0012.N1	08-JAN-2006 03:57:12	Dark	44.000	41	Eps Car	1.8600	4100.0	88	20170	No
37	GOM_TRA_1PNPDE20060108_040107_000000442044_00076_20170_0013.N1	08-JAN-2006 04:01:07	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	20170	No
38	GOM_TRA_1PNPDE20060108_044948_000000372044_00076_20170_0000.N1	08-JAN-2006 04:49:48	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	20170	No
39	GOM_TRA_1PNPDE20060108_045208_000000362044_00076_20170_0001.N1	08-JAN-2006 04:52:08	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	20170	No
40	GOM_TRA_1PNPDE20060108_045822_000000352044_00076_20170_0002.N1	08-JAN-2006 04:58:22	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	20170	No
41	GOM_TRA_1PNPDE20060108_050121_000000352044_00076_20170_0003.N1	08-JAN-2006 05:01:21	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	20170	No
42	GOM_TRA_1PNPDE20060108_050842_000000362044_00076_20170_0004.N1	08-JAN-2006 05:08:42	Twilight	36.000	120	1Del Oph	2.7340	3200.0	72	20170	No
43	GOM_TRA_1PNPDE20060108_051410_000000412044_00076_20170_0005.N1	08-JAN-2006 05:14:10	Twilight	40.500	80	7Del Sco	2.3160	30000.	81	20170	No
44	GOM_TRA_1PNPDE20060108_051937_000000372044_00076_20170_0006.N1	08-JAN-2006 05:19:37	Twilight	36.500	131	Gam Lup	2.8000	26000.	73	20170	No
45	GOM_TRA_1PNPDE20060108_052145_000000152044_00076_20170_0007.N1	08-JAN-2006 05:21:45	Dark	15.000	81	Eta Cen	2.3560	28000.	30	20170	No
46	GOM_TRA_1PNPDE20060108_052239_000000382044_00076_20170_0008.N1	08-JAN-2006 05:22:39	Dark	37.500	78	Alp Lup	2.3040	28000.	75	20170	No

47	GOM_TRA_1PNPDE20060108_052534_000000532044_00077_20171_0009.N1	08-JAN-2006 05:25:34	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	20171	No
48	GOM_TRA_1PNPDE20060108_052943_000000402044_00077_20171_0010.N1	08-JAN-2006 05:29:43	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	20171	No
49	GOM_TRA_1PNPDE20060108_053443_000000442044_00077_20171_0011.N1	08-JAN-2006 05:34:43	Dark	43.500	29	Bet Car	1.6720	10200.	87	20171	No
50	GOM_TRA_1PNPDE20060108_053624_000000432044_00077_20171_0012.N1	08-JAN-2006 05:36:24	Dark	43.000	71	Iot Car	2.2460	7700.0	86	20171	No

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



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

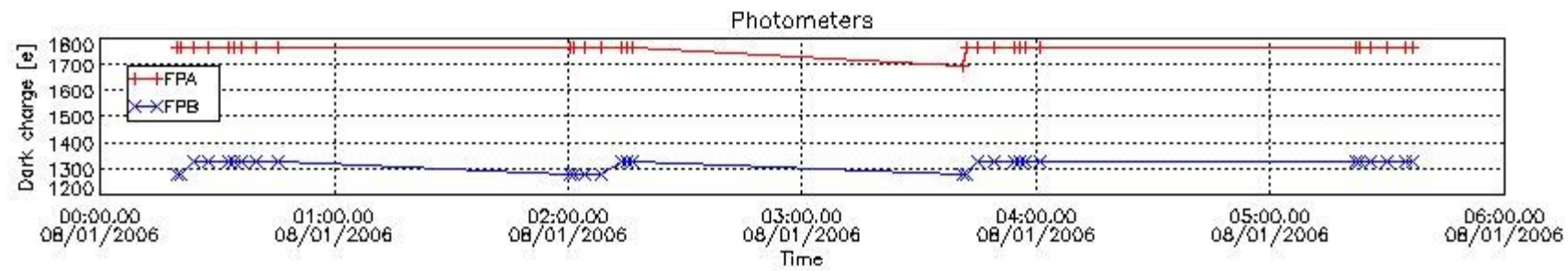
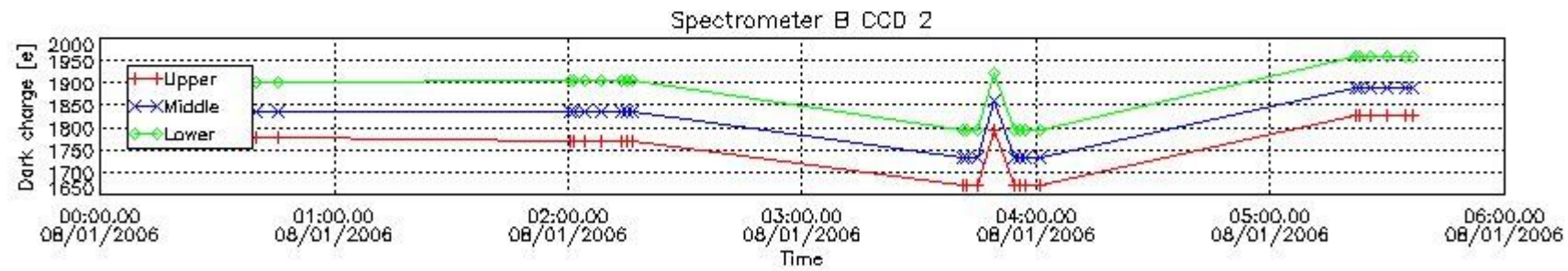
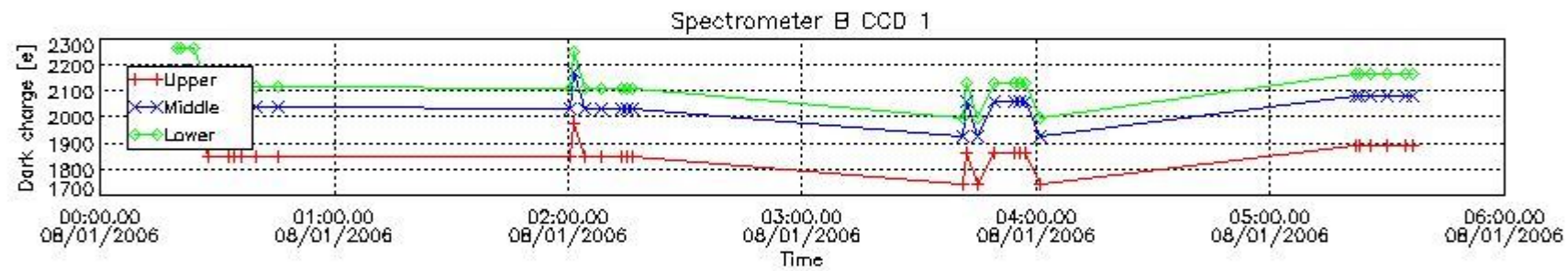
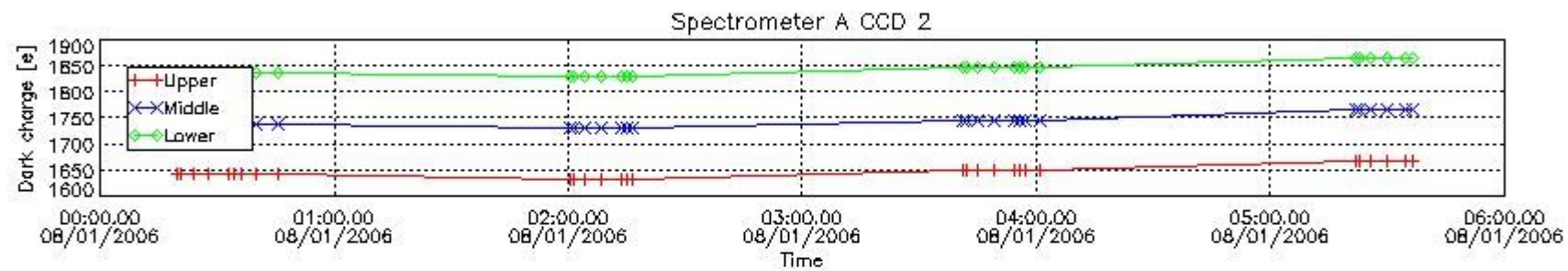
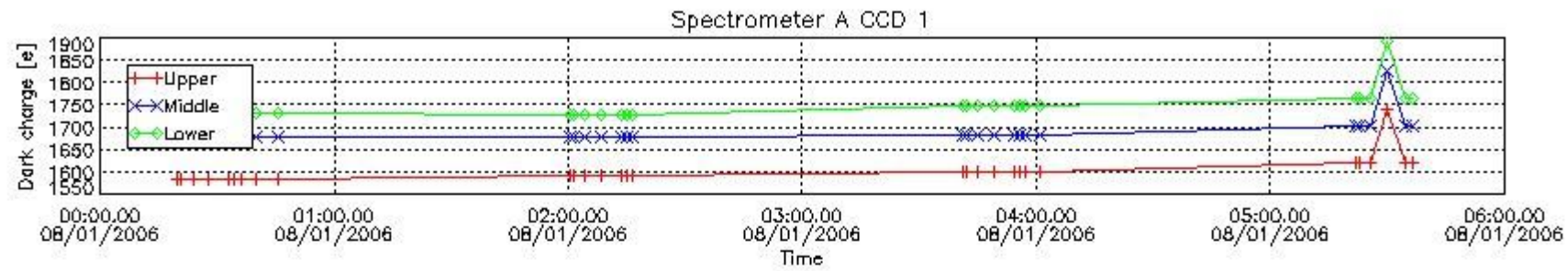
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





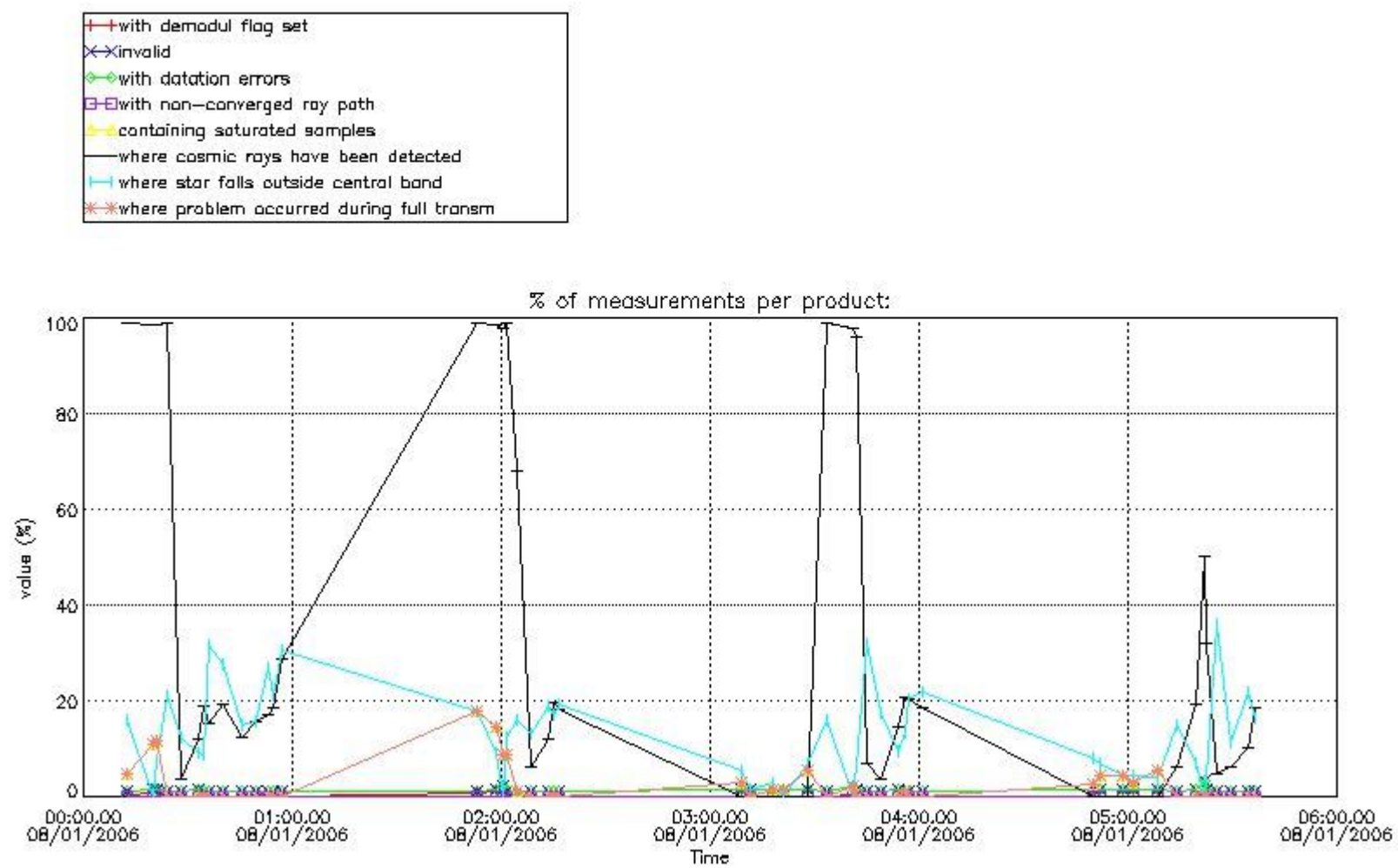
## 5. Demodulation flag and quality information monitoring

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:

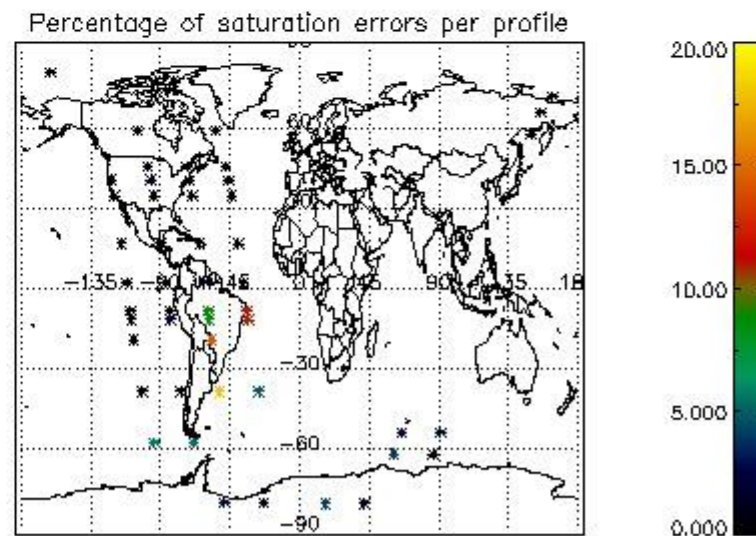
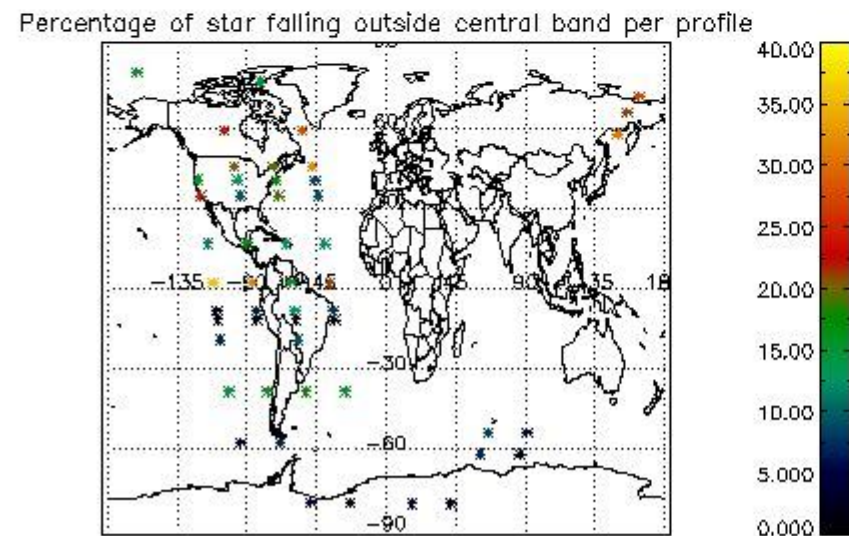
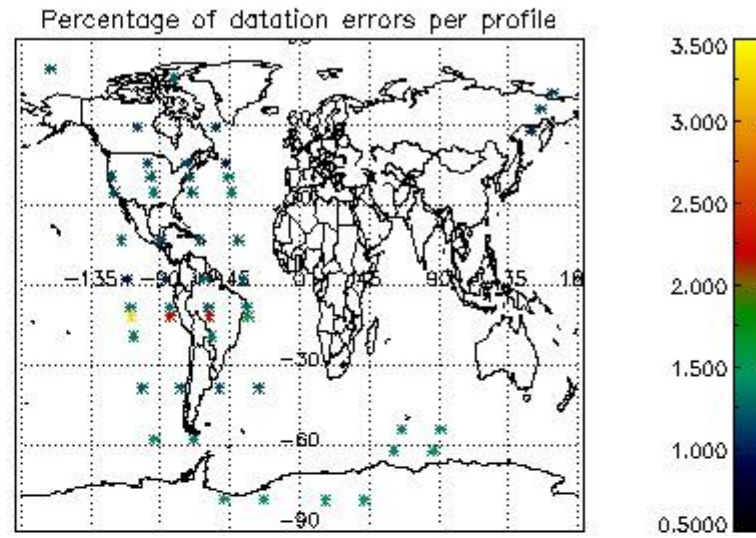
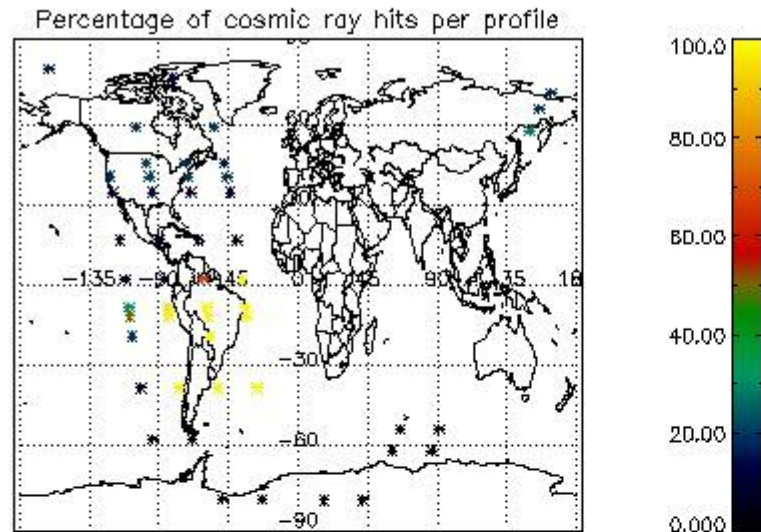
At least one measurement with demodulation flag set:	30.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





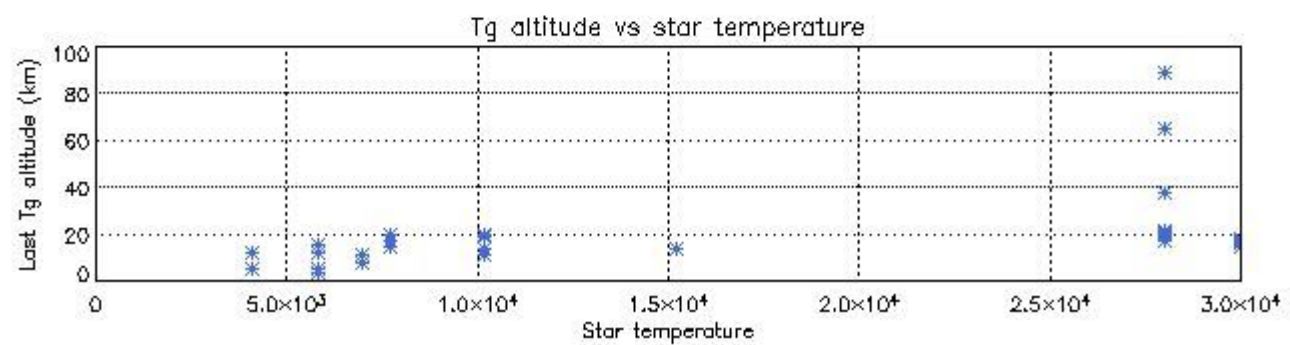
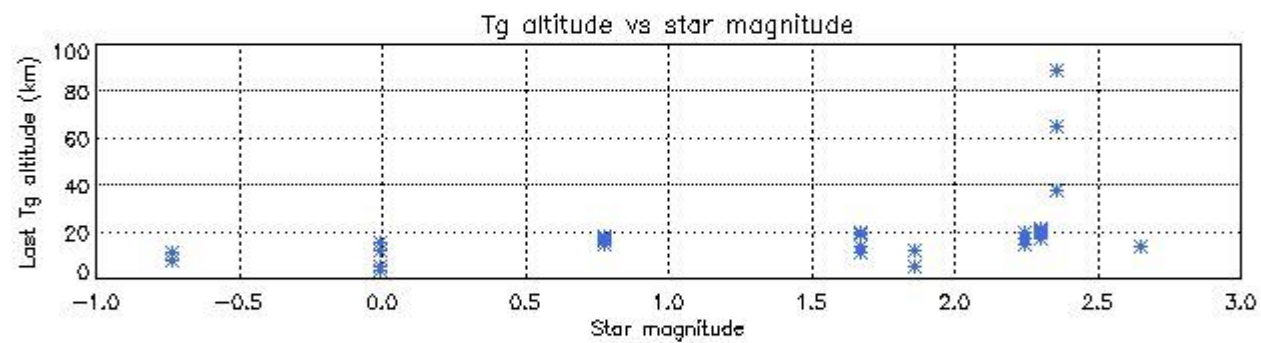
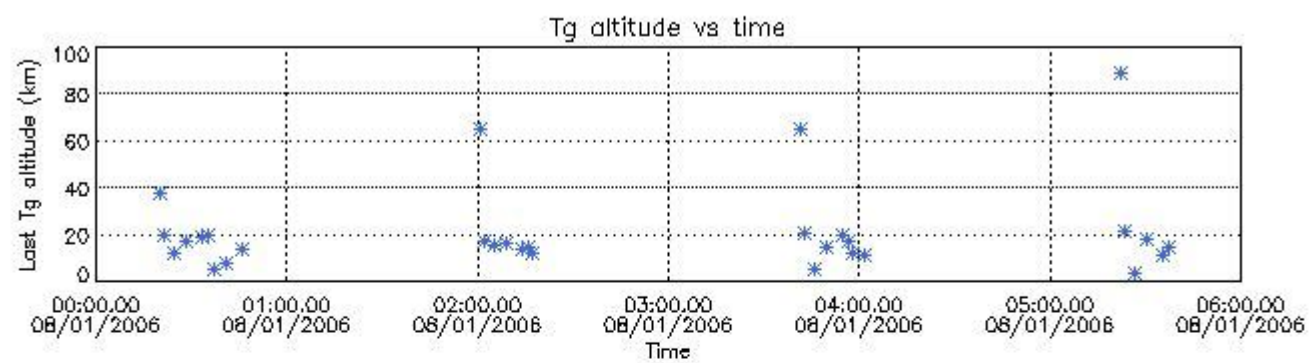
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	20.844	18.682	16.392
St. deviation:	18.980	6.6889	3.4434
Maximum:	88.504	25.014	20.932
Minimum:	3.2412	7.0161	12.972
Number of data:	30.000	11.000	9.0000

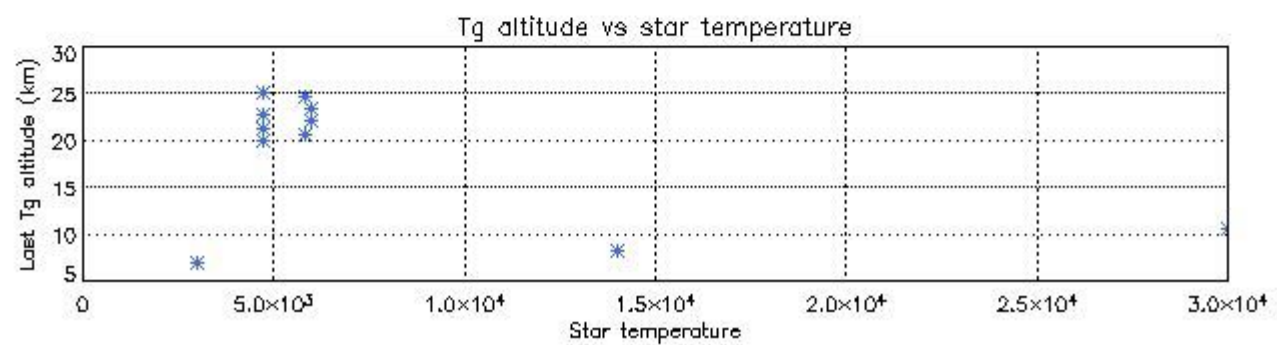
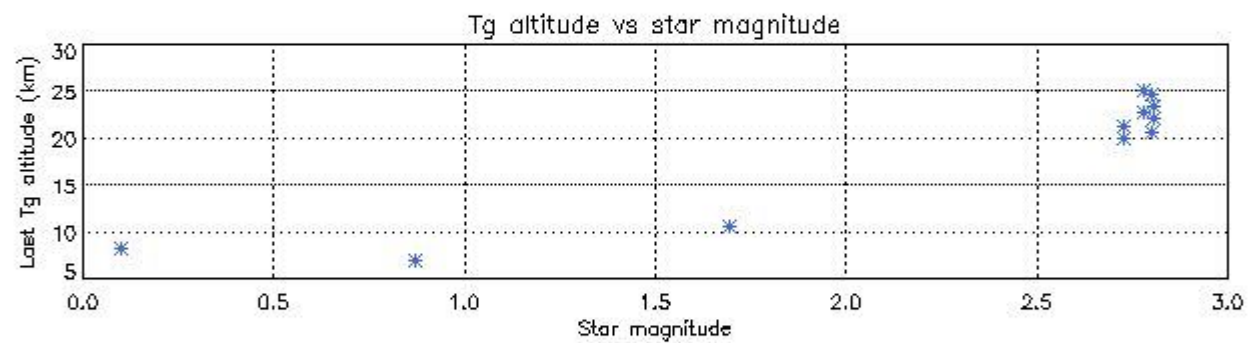
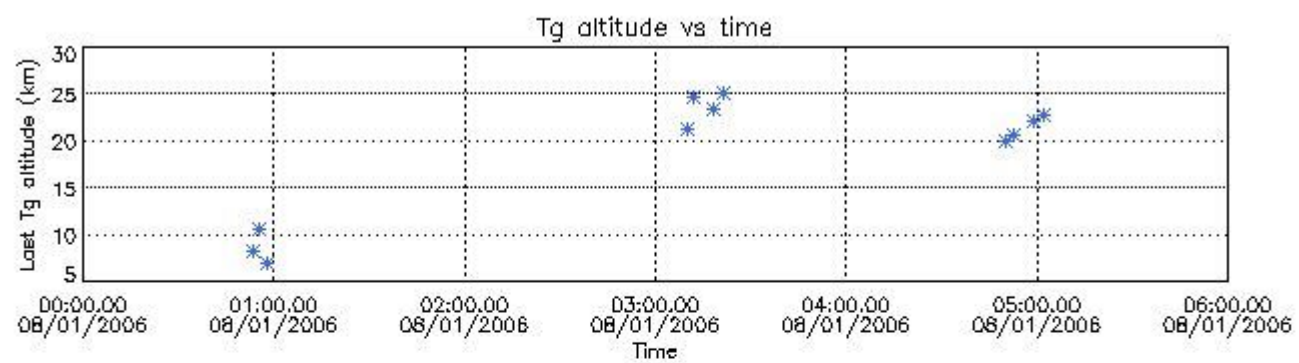
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

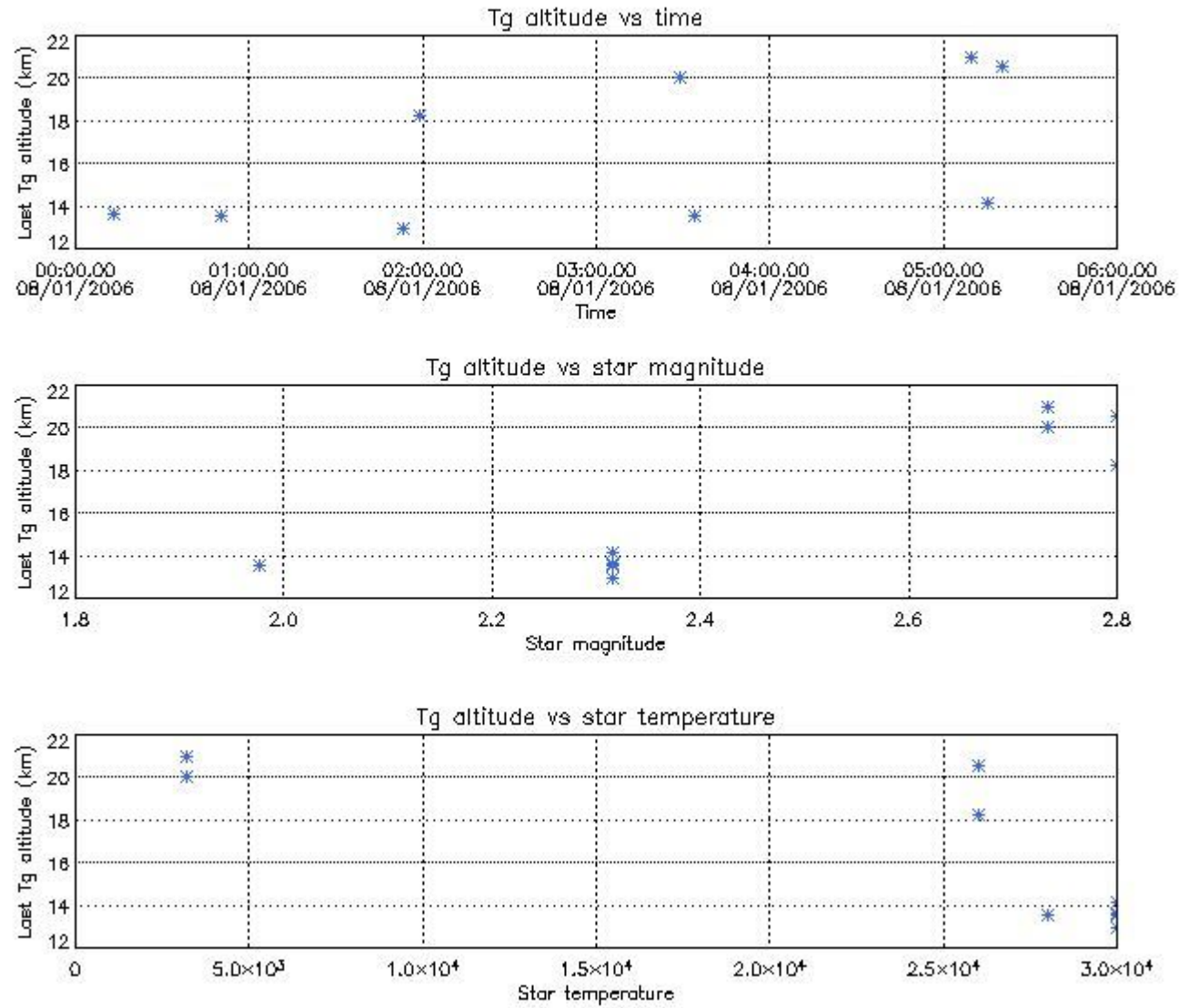
Tangent altitude at which the star is lost



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

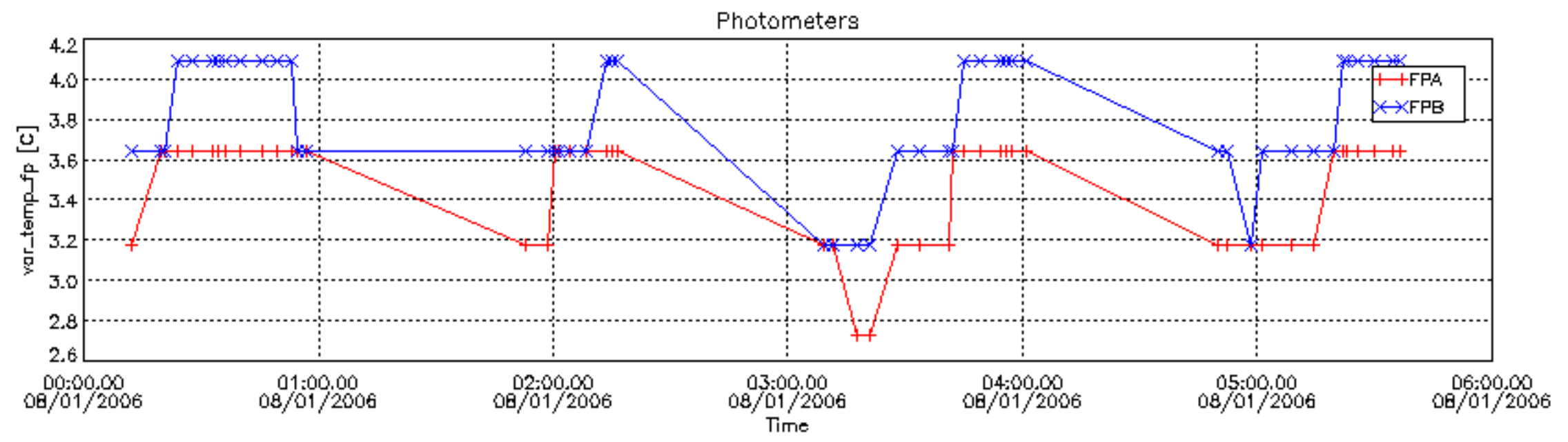
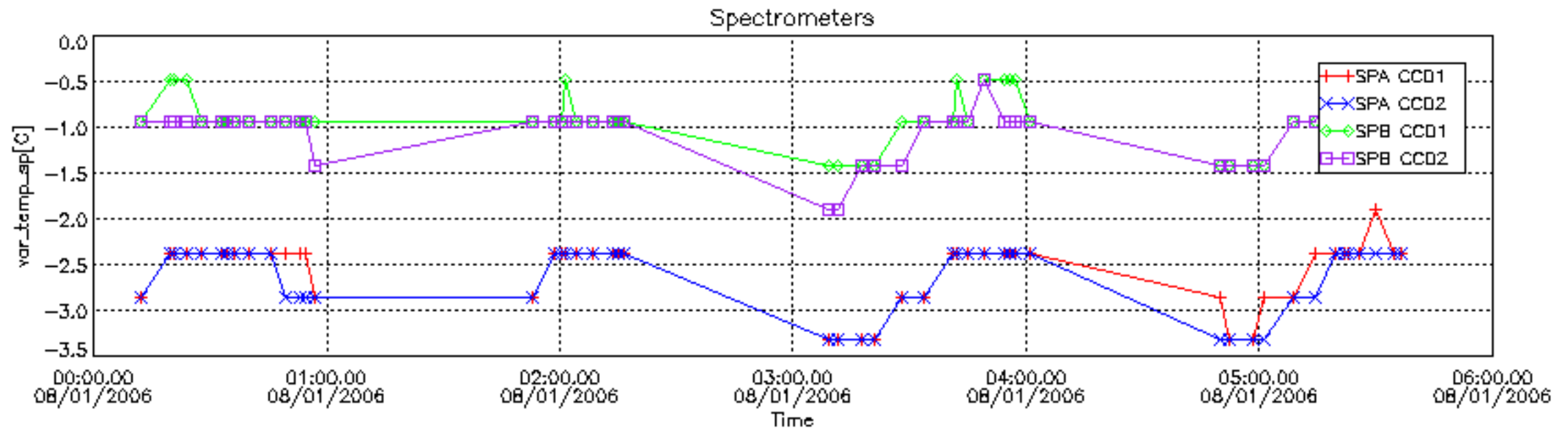
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

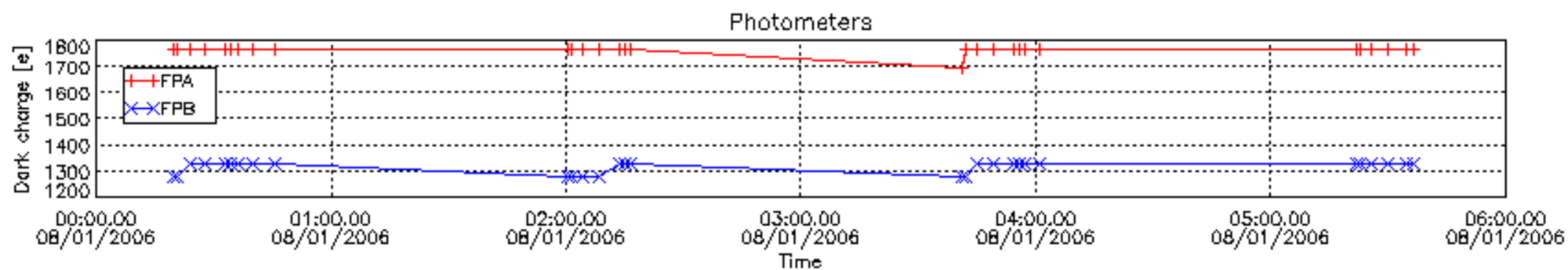
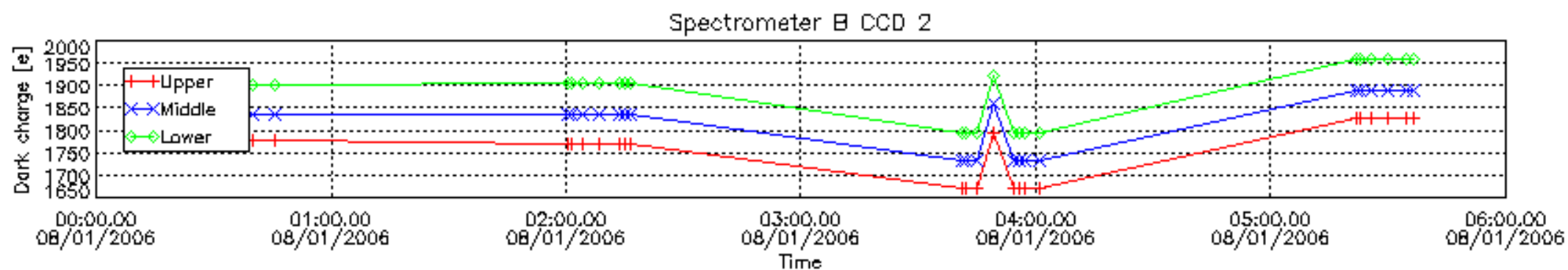
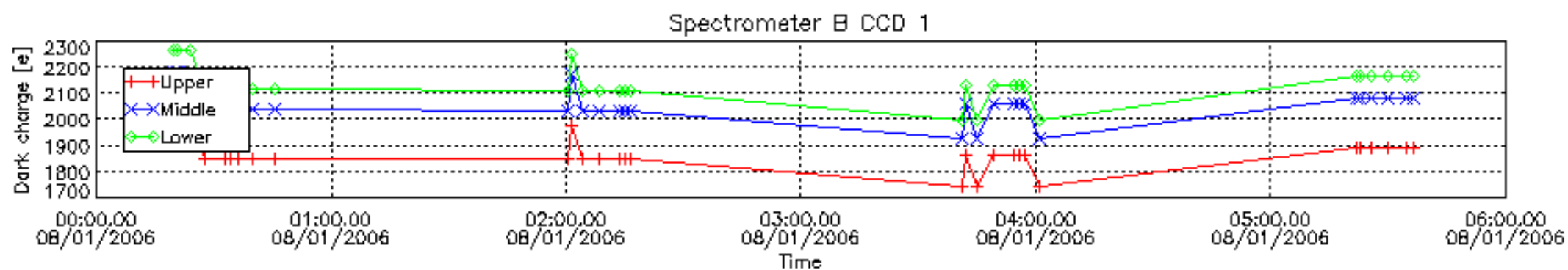
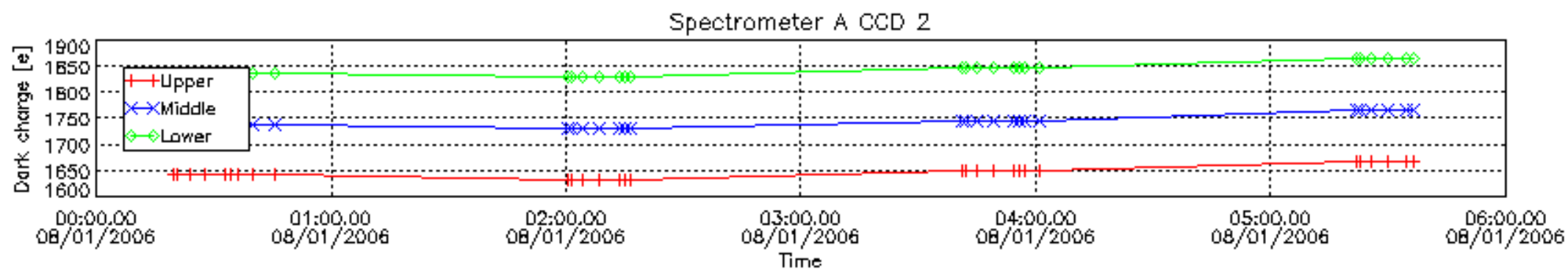
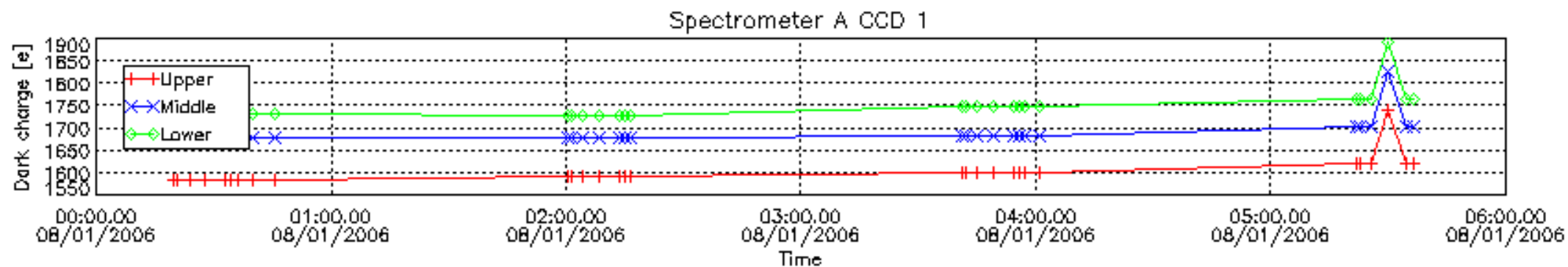
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.1	1446.1	1459.6	1446.2
St. deviation:	4.4738	5.8771	6.5707	7.4343
Maximum:	1491.0	1517.0	1492.0	1476.0
Minimum:	1445.0	1427.0	1432.0	1421.0
Number of data:	26400.	26400.	8850.0	8850.0

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

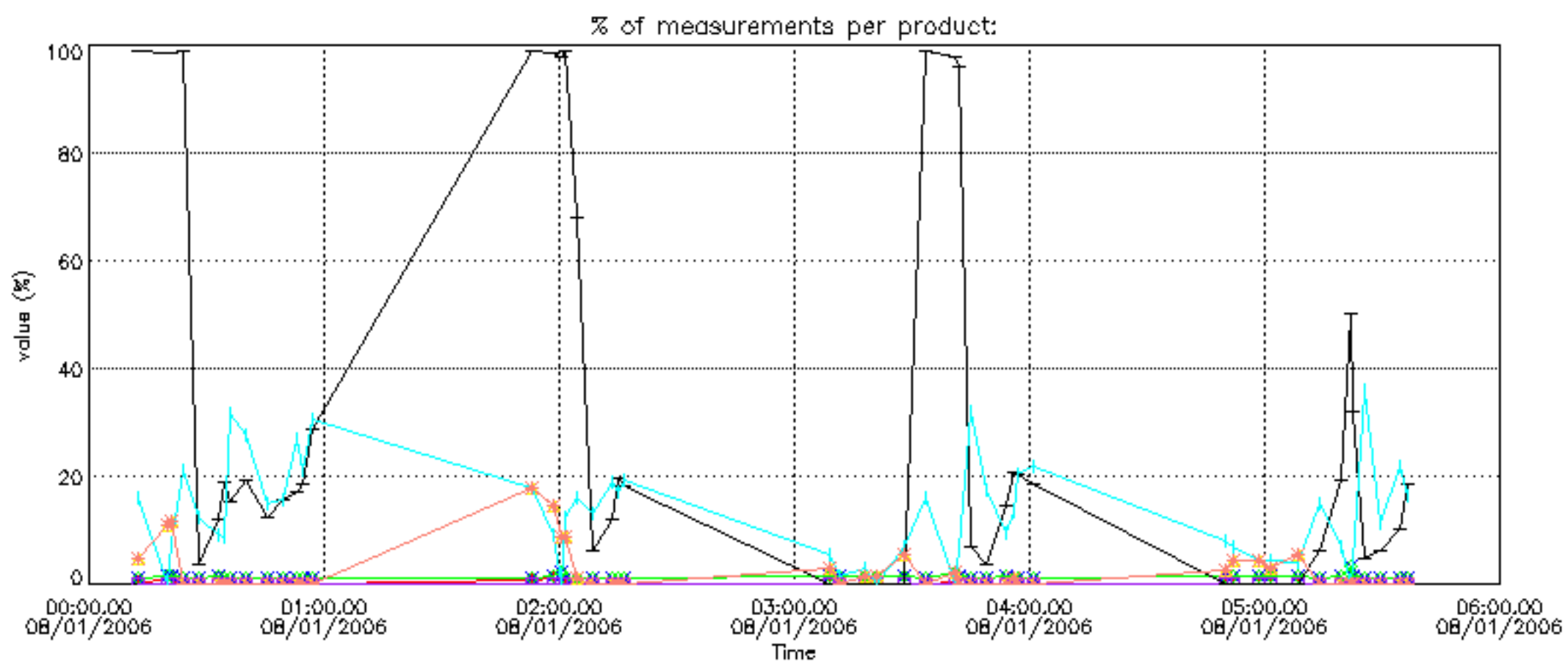
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	08-JAN-2006 00:12:21
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20051220_153205_20051218_000000_20100101_000000	1	08-JAN-2006 00:12:21
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	08-JAN-2006 00:12:21
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-JAN-2006 00:12:21
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	08-JAN-2006 00:12:21
ECMWF_FILE	AUX_ECF_AXNECM20060107_061120_20060107_210000_20060108_090000	1	08-JAN-2006 00:12:21
ECMWF_FILE	AUX_ECF_AXNECM20060107_193028_20060108_030000_20060108_150000	24	08-JAN-2006 03:09:12
OPTIONAL_ECMWF_FILE	NOT USED	1	08-JAN-2006 00:12:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060108_000752_000057382044_00073_20167_1304.N1	1	08-JAN-2006 00:12:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060108_014849_000038252044_00074_20168_1305.N1	24	08-JAN-2006 03:09:12
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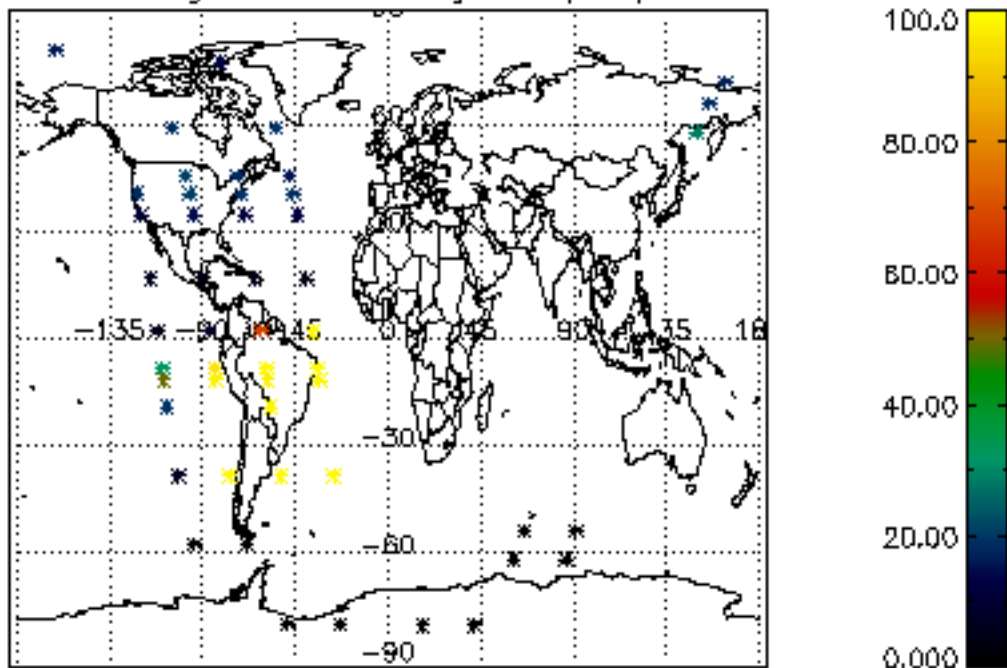




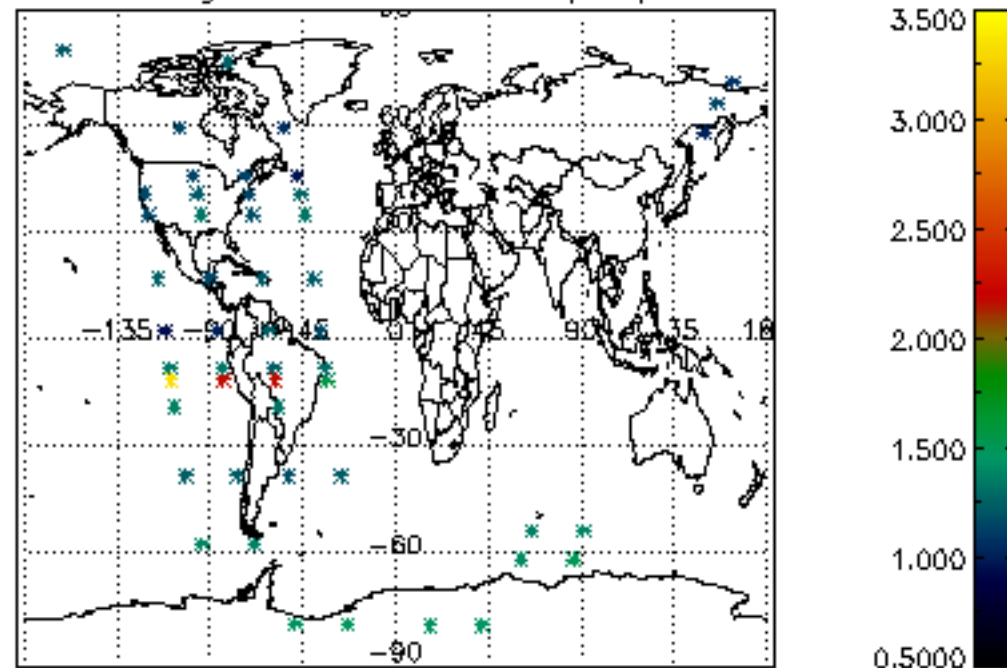




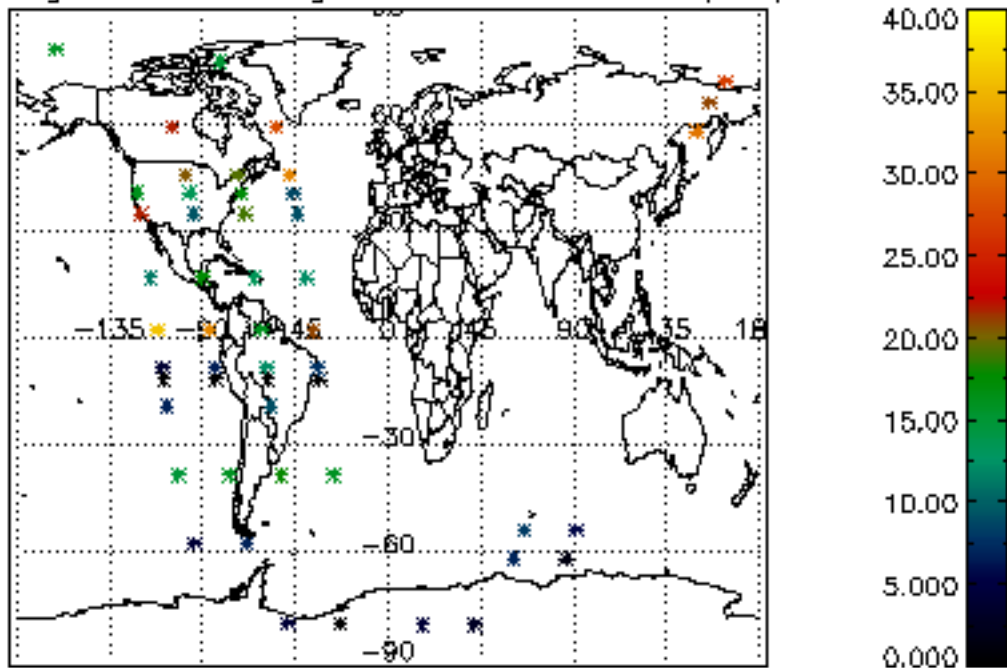
Percentage of cosmic ray hits per profile



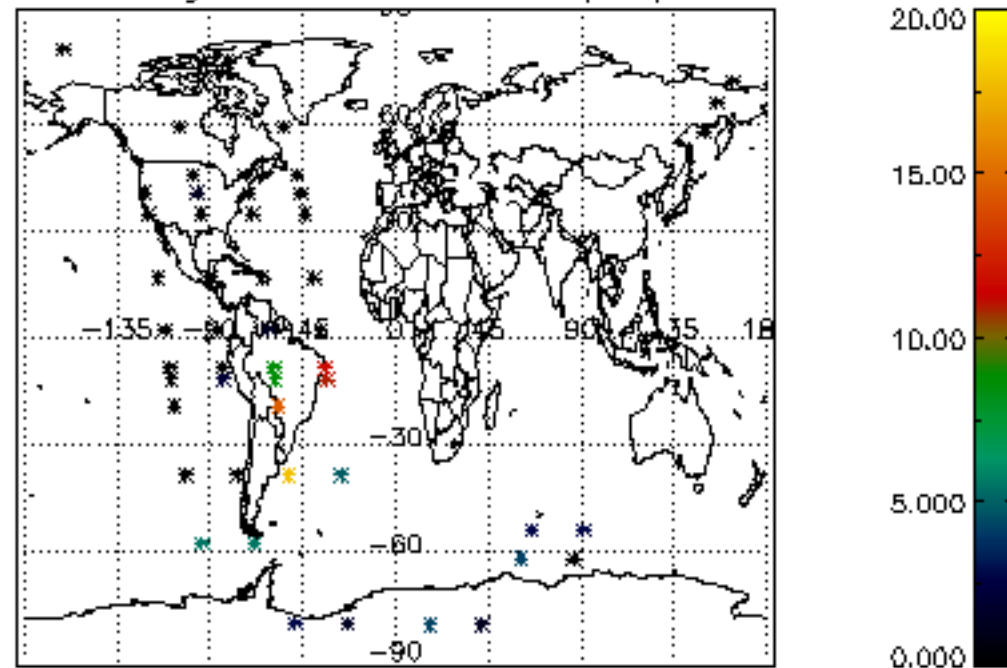
Percentage of datation errors per profile



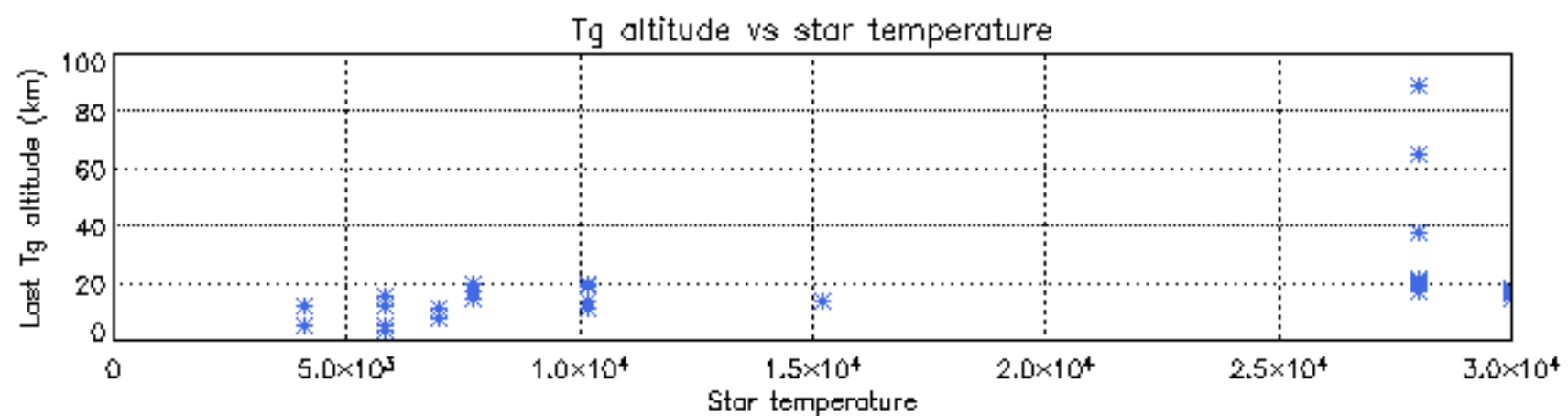
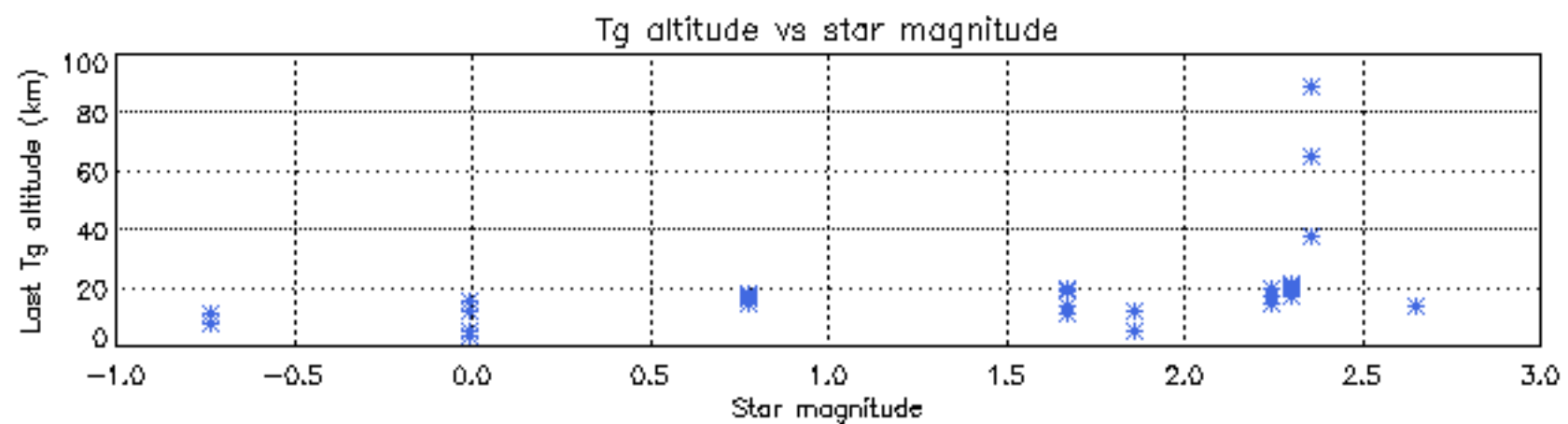
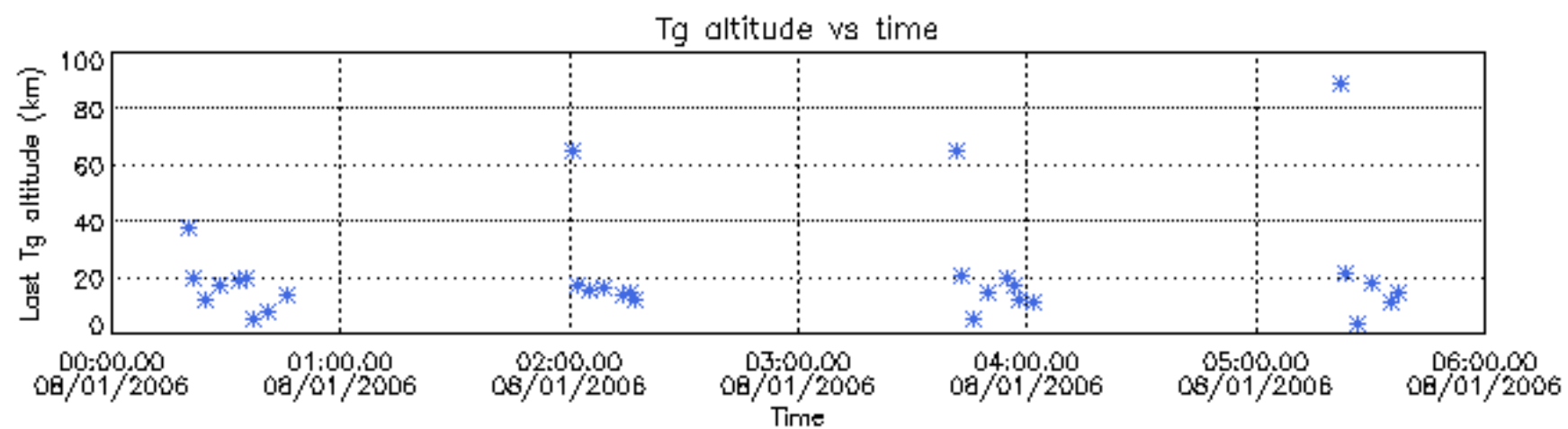
Percentage of star falling outside central band per profile



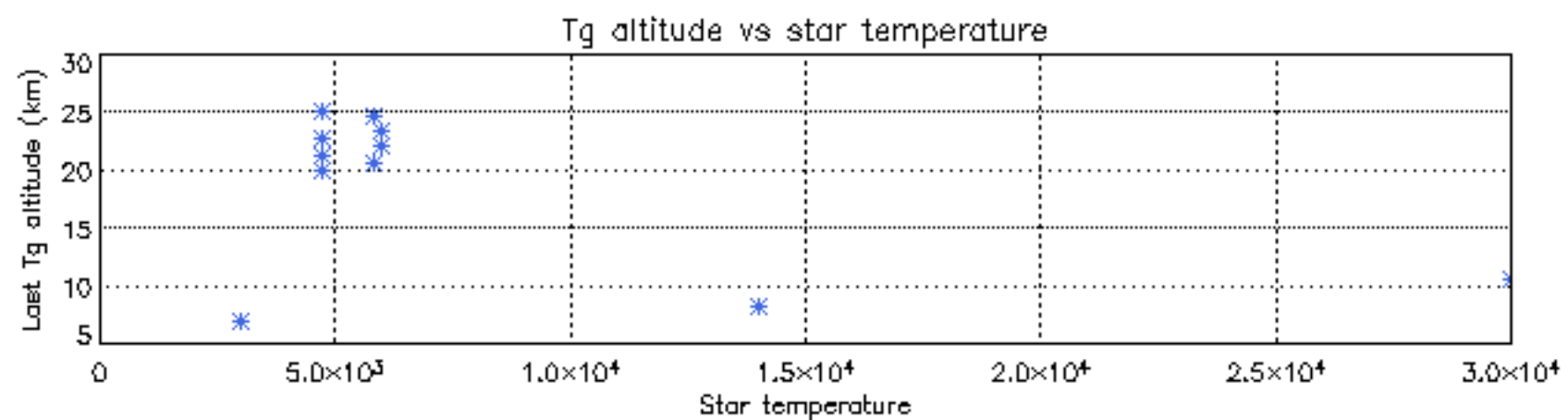
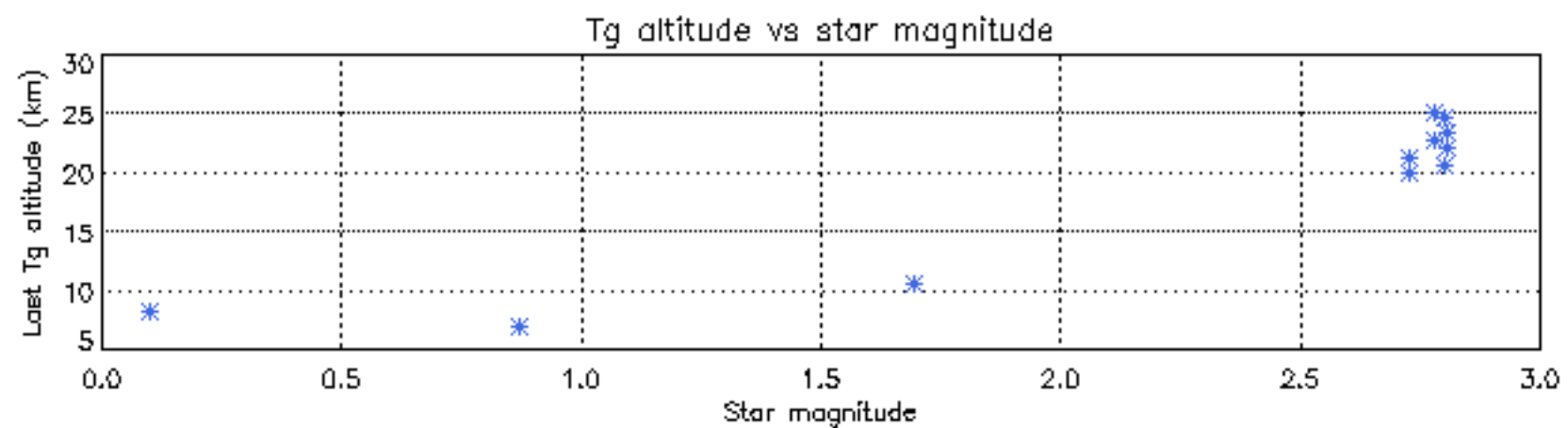
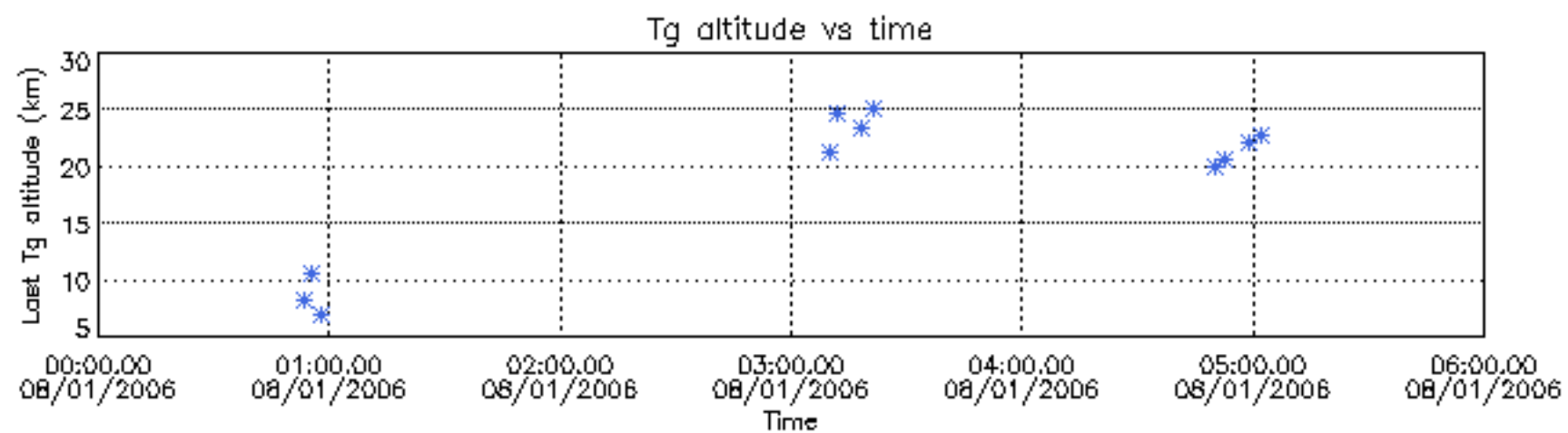
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

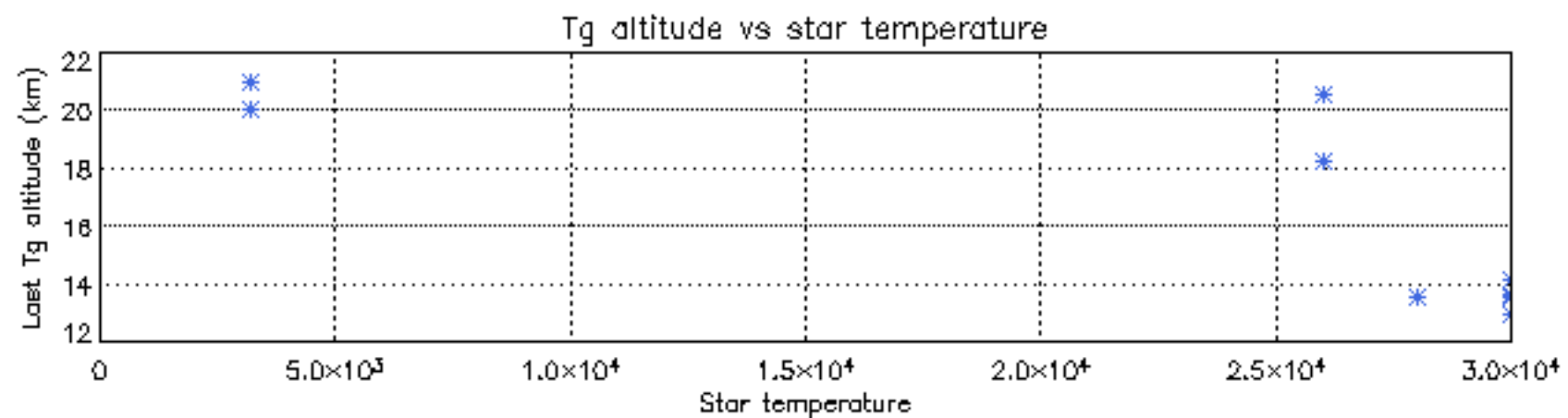
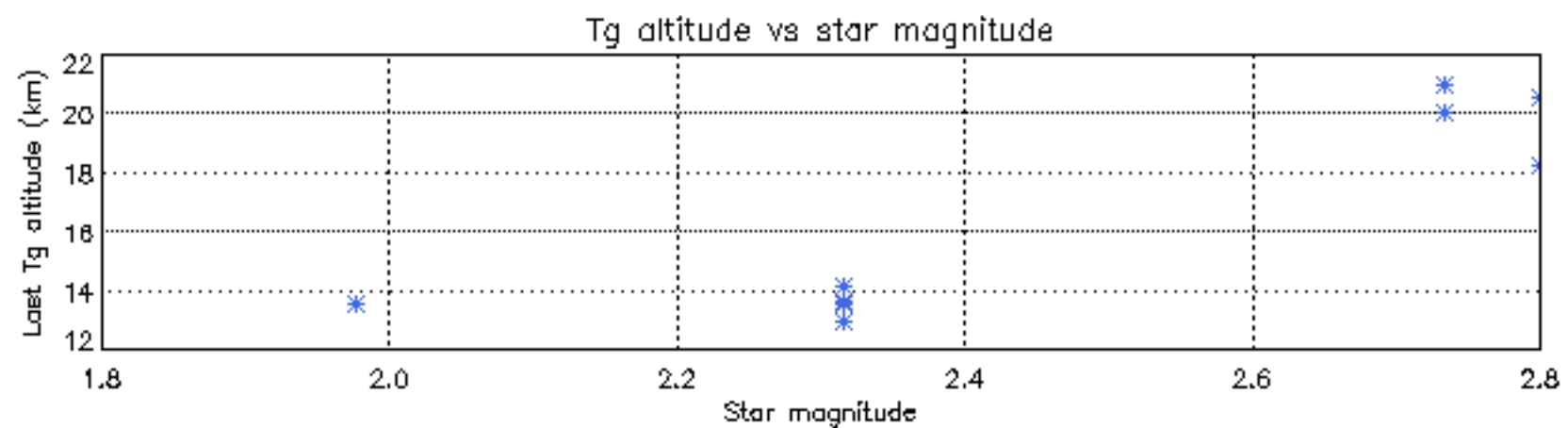
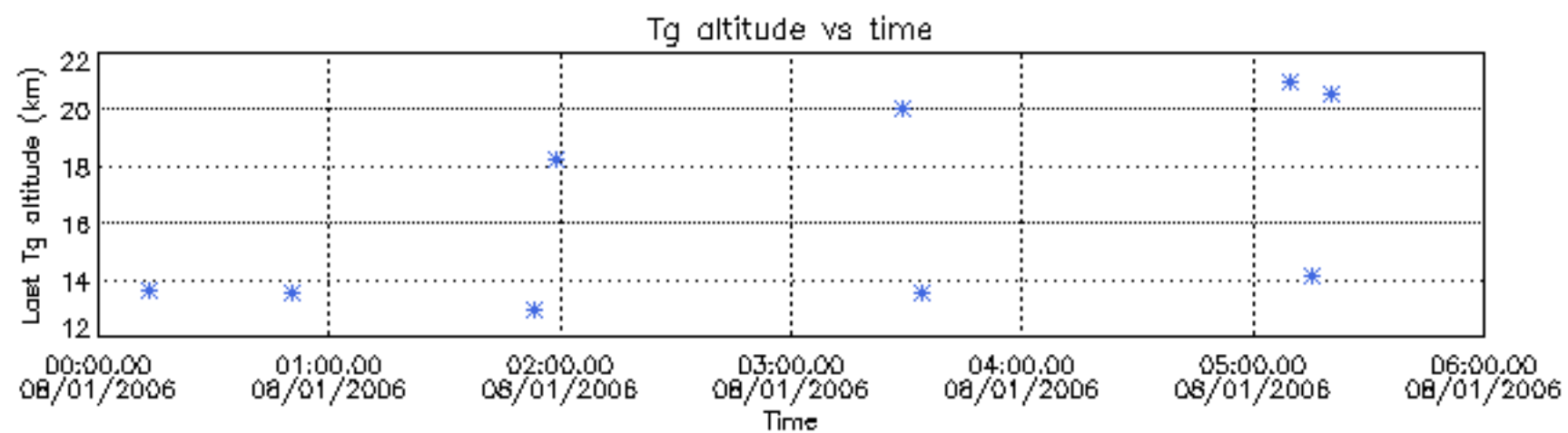


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20060101\_003722\_000054102043\_00474\_20067\_1280.N1

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 9; 6666.8; 01-JAN-2006 00:53:52; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;20067  
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 15; 7917.5; 01-JAN-2006 01:14:43; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;20067  
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 8;-3561.4; 03-JAN-2006 15:26:43; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;20105  
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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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 18;-613.2; 03-JAN-2006 16:15:51; Dark ; 39.5; 158; 6Pi Sco ; 2.91; 28000;occ; 79; 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  
 29; 989.1; 03-JAN-2006 16:42:34; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;20106

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 23;-77.5; 03-JAN-2006 19:45:59; Dark ; 18.0; 95; Zet Cen ; 2.55; 26000;occ; 36; 0;20107  
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 27; 562.2; 03-JAN-2006 19:56:39; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;20108  
 28; 652.4; 03-JAN-2006 19:58:09; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;20108  
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 3;-4151.4; 03-JAN-2006 10:15:05; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;20102  
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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  
10;-2611.9; 03-JAN-2006 10:40:45; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;20102  
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13;-1607.8; 03-JAN-2006 10:57:29; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;20102  
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16;-996.8; 03-JAN-2006 11:07:40; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;20102  
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22; 11.3; 03-JAN-2006 11:24:28; Dark ; 52.5; 4; Alp1Cen ;-0.01; 5800;occ; 105; 0;20103  
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27; 741.8; 03-JAN-2006 11:36:38; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;20103  
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29; 1328.3; 03-JAN-2006 11:46:25; Dark ; 34.5; 108; Alp Col ; 2.65; 15200;occ; 69; 0;20103

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13;-1607.6; 03-JAN-2006 12:38:05; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;20103  
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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  
29; 1328.5; 03-JAN-2006 13:27:01; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;20104

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9; 6690.1; 04-JAN-2006 00:59:58; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;20110  
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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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 21; 4805.4; 12-JAN-2006 16:40:05; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;20234  
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 25; 5267.3; 12-JAN-2006 16:47:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20234  
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 27; 5603.8; 12-JAN-2006 16:53:23; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;20234  
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 29; 5792.5; 12-JAN-2006 16:56:32; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;20234  
 30; 6016.0; 12-JAN-2006 17:00:16; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;20234  
 31; 6225.3; 12-JAN-2006 17:03:45; Dark ; 27.0; 117; Pi Pup ; 2.71; 3800;occ; 54; 0;20234

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 23; 4872.7; 12-JAN-2006 18:22:12; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;20235  
 24; 4983.7; 12-JAN-2006 18:24:03; Dark ; 43.0; 134; Bet TrA ; 2.81; 6600;occ; 86; 0;20235  
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27; 5579.8; 12-JAN-2006 20:08:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20236
28; 5828.0; 12-JAN-2006 20:13:07; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;20236
29; 5916.4; 12-JAN-2006 20:14:36; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;20236
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31; 6205.9; 14-JAN-2006 12:43:25; Dark ; 24.0; 179; 240mi2CMA ; 3.03; 24000;occ; 48; 0;20260

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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
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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
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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
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19;	4434.9;	14-JAN-2006	15:31:54;	Dark	;	41.0;	75;	26Eps Sco	;	2.29;	4250;occ;	82;	0;	20262
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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
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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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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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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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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
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26; 5236.9; 14-JAN-2006 17:25:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20263
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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
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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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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
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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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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; 2672.2; 19-JAN-2006 22:09:31; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;20338  
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2;	-436.1;	27-JAN-2006	23:47:11;	Dark	;	42.0;	25;	35Lam Sco	;	1.62;	28000;occ;	84;	0;	20453
3;	-345.5;	27-JAN-2006	23:48:42;	Dark	;	40.5;	40;	The Sco	;	1.86;	7100;occ;	81;	0;	20453
4;	-136.7;	27-JAN-2006	23:52:11;	Dark	;	38.5;	141;	Bet Ara	;	2.84;	4600;occ;	77;	0;	20453
5;	71.2;	27-JAN-2006	23:55:39;	Dark	;	40.0;	134;	Bet TrA	;	2.81;	6600;occ;	80;	0;	20454
6;	164.3;	27-JAN-2006	23:57:12;	Dark	;	55.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	110;	0;	20454
7;	327.9;	27-JAN-2006	23:59:56;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	20454
8;	439.5;	28-JAN-2006	00:01:47;	Dark	;	39.0;	12;	Alp1Cru	;	0.77;	30000;occ;	78;	0;	20454
9;	668.4;	28-JAN-2006	00:05:36;	Dark	;	45.0;	29;	Bet Car	;	1.67;	10200;occ;	90;	0;	20454
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11;	911.3;	28-JAN-2006	00:09:39;	Dark	;	40.0;	46;	Del Vel	;	1.95;	10600;occ;	80;	0;	20454
12;	1065.4;	28-JAN-2006	00:12:13;	Dark	;	42.5;	34;	Gam2Vel	;	1.79;	23000;occ;	85;	0;	20454
13;	1191.3;	28-JAN-2006	00:14:19;	Dark	;	38.0;	70;	Zet Pup	;	2.25;	39000;occ;	76;	0;	20454
14;	1277.3;	28-JAN-2006	00:15:45;	Dark	;	42.5;	117;	Pi Pup	;	2.71;	3800;occ;	85;	0;	20454
15;	1424.4;	28-JAN-2006	00:18:12;	Dark	;	40.5;	23;	21Eps CMA	;	1.50;	26000;occ;	81;	0;	20454
16;	1507.1;	28-JAN-2006	00:19:35;	Dark	;	38.5;	179;	240mi2CMA	;	3.03;	24000;occ;	77;	0;	20454
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18;	2047.1;	28-JAN-2006	00:28:35;	Dark	;	10.0;	153;	3Bet CMI	;	2.89;	13100;occ;	20;	0;	20454
19;	2192.4;	28-JAN-2006	00:31:00;	Bright;		35.5;	44;	24Gam Gem	;	1.93;	11000;occ;	71;	0;	20454
20;	2300.5;	28-JAN-2006	00:32:48;	Bright;		39.0;	151;	13Mu Gem	;	2.89;	3000;occ;	78;	0;	20454
21;	2556.2;	28-JAN-2006	00:37:04;	Bright;		34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	20454
22;	2682.9;	28-JAN-2006	00:39:11;	Bright;		36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	20454
23;	3427.4;	28-JAN-2006	00:51:35;	Bright;		32.0;	49;	1Alp UMi	;	1.99;	6300;occ;	64;	0;	20454
24;	4087.0;	28-JAN-2006	01:02:35;	Bright;		37.5;	130;	23Bet Dra	;	2.80;	5800;occ;	75;	0;	20454
25;	4296.7;	28-JAN-2006	01:06:04;	Bright;		36.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	72;	0;	20454
26;	4781.9;	28-JAN-2006	01:14:09;	Bright;		35.5;	59;	55Alp Oph	;	2.08;	8900;occ;	71;	0;	20454
27;	4908.9;	28-JAN-2006	01:16:17;	Bright;		35.0;	126;	60Bet Oph	;	2.77;	4250;occ;	70;	0;	20454
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3;	-1256.7;	27-JAN-2006	06:47:32;	Bright;		35.0;	59;	55Alp Oph	;	2.08;	8900;occ;	70;	0;	20443
4;	-1129.8;	27-JAN-2006	06:49:38;	Bright;		35.0;	126;	60Bet Oph	;	2.77;	4250;occ;	70;	0;	20443
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8;	-233.3;	27-JAN-2006	07:04:35;	Dark	;	37.5;	147;	Alp Ara	;	2.88;	26000;occ;	75;	0;	20443
9;	-138.6;	27-JAN-2006	07:06:10;	Dark	;	39.0;	141;	Bet Ara	;	2.84;	4600;occ;	78;	0;	20443
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12;	325.1;	27-JAN-2006	07:13:53;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	20444
13;	434.2;	27-JAN-2006	07:15:42;	Dark	;	39.5;	12;	Alp1Cru	;	0.77;	30000;occ;	79;	0;	20444
14;	666.0;	27-JAN-2006	07:19:34;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	20444
15;	801.0;	27-JAN-2006	07:21:49;	Dark	;	39.5;	71;	Iot Car	;	2.25;	7700;occ;	79;	0;	20444

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 18; 325.4; 27-JAN-2006 08:54:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20445  
 19; 434.7; 27-JAN-2006 08:56:19; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;20445  
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 27; 1505.9; 27-JAN-2006 10:54:46; Dark ; 37.0; 179; 240mi2CMA ; 3.03; 24000;occ; 74; 0;20446  
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18; 435.8; 27-JAN-2006 12:17:32; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;20447  
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3;	-334.6;	30-JAN-2006	22:14:02;	Dark	;	40.5;	40;	The Sco	;	1.86;	7100;occ;	81;	0;	20495
4;	-221.0;	30-JAN-2006	22:15:56;	Dark	;	36.5;	147;	Alp Ara	;	2.88;	26000;occ;	73;	0;	20495
5;	-127.4;	30-JAN-2006	22:17:30;	Dark	;	43.0;	141;	Bet Ara	;	2.84;	4600;occ;	86;	0;	20495
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7;	186.7;	30-JAN-2006	22:22:44;	Dark	;	42.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	85;	0;	20496
8;	339.6;	30-JAN-2006	22:25:17;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	20496
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10;	678.8;	30-JAN-2006	22:30:56;	Dark	;	36.5;	29;	Bet Car	;	1.67;	10200;occ;	73;	0;	20496
11;	818.9;	30-JAN-2006	22:33:16;	Dark	;	41.0;	71;	Iot Car	;	2.25;	7700;occ;	82;	0;	20496
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26; 1078.7; 31-JAN-2006 12:02:23; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;20504
27; 1203.9; 31-JAN-2006 12:04:28; Dark ; 36.5; 70; Zet Pup ; 2.25; 39000;occ; 73; 0;20504
28; 1286.9; 31-JAN-2006 12:05:51; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;20504
29; 1433.0; 31-JAN-2006 12:08:17; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;20504
30; 1515.7; 31-JAN-2006 12:09:40; Dark ; 37.5; 179; 240mi2CMA ; 3.03; 24000;occ; 75; 0;20504
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3;-4042.6; 31-JAN-2006 12:17:38; Dark ; 45.5; 8; 10Alp CMI ; 0.40; 6500;occ; 91; 0;20504
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7;-3344.2; 31-JAN-2006 12:29:16; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;20504
8;-2607.9; 31-JAN-2006 12:41:32; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;20504
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13;-1112.4; 31-JAN-2006 13:06:28; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;20504
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