

# GOMOS Daily Report 04-JAN-2006

## Level 0 and Level 1 products

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## [Level 2 products](#)

### 1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	06JAN2006 04:32:24

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (04JAN2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (05JAN2006 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)

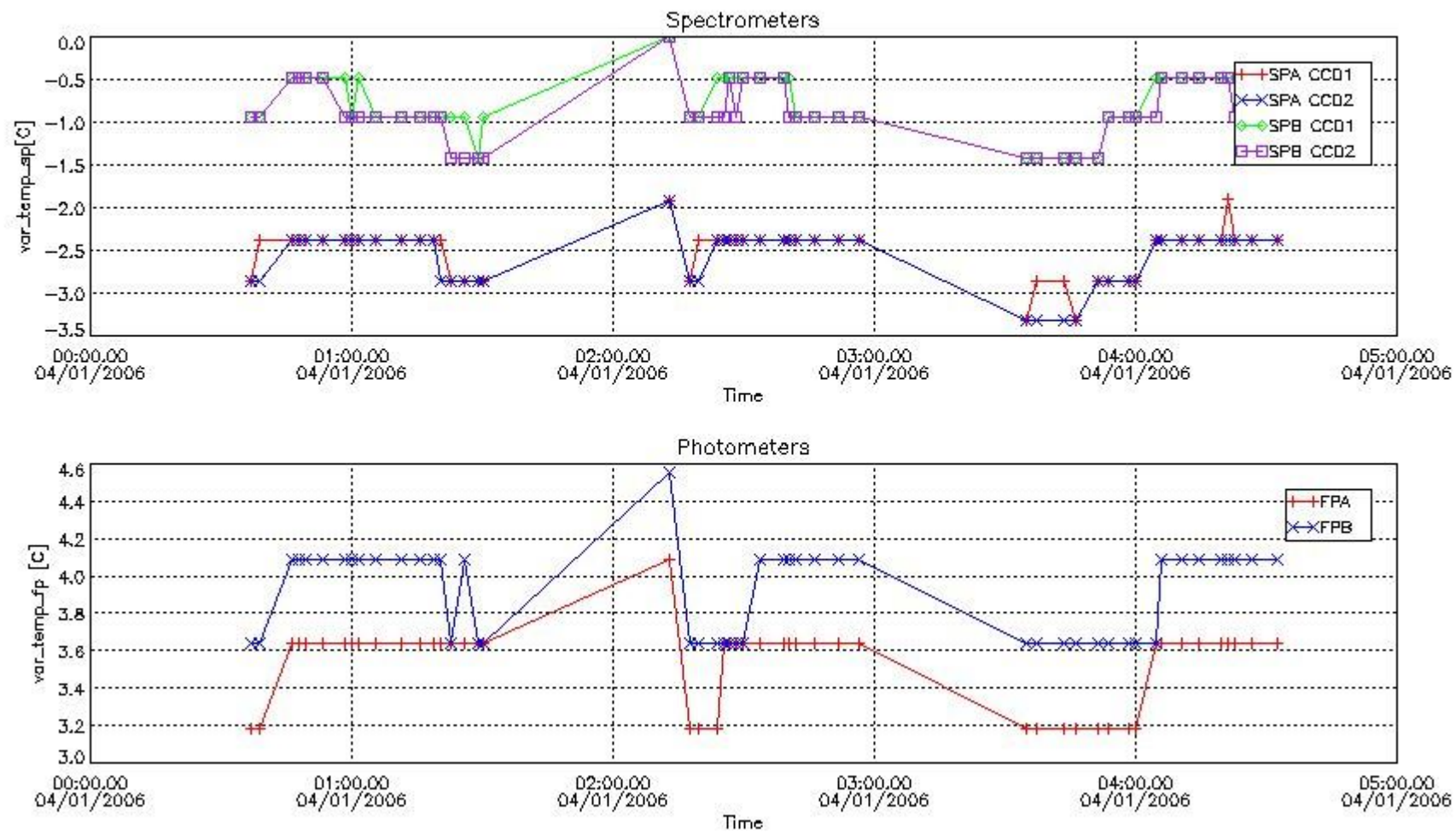
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060104_003703_000000352044_00016_20110_0000.N1	04-JAN-2006 00:37:03	Twilight	35.000	97	8Bet1Sco	2.5610	30000.	70	20110	No
2	GOM_TRA_1PNPDE20060104_003852_000000392044_00016_20110_0001.N1	04-JAN-2006 00:38:52	Twilight	38.500	158	6Pi Sco	2.9060	28000.	77	20110	No
3	GOM_TRA_1PNPDE20060104_004613_000000422044_00016_20110_0002.N1	04-JAN-2006 00:46:13	Dark	42.000	78	Alp Lup	2.3040	28000.	84	20110	No
4	GOM_TRA_1PNPDE20060104_004749_00000042044_00016_20110_0003.N1	04-JAN-2006 00:47:49	Dark	4.0000	95	Zet Cen	2.5450	26000.	8	20110	No
5	GOM_TRA_1PNPDE20060104_004918_000000422044_00017_20111_0004.N1	04-JAN-2006 00:49:18	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	20111	No
6	GOM_TRA_1PNPDE20060104_005316_000000402044_00017_20111_0005.N1	04-JAN-2006 00:53:16	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	20111	No
7	GOM_TRA_1PNPDE20060104_005827_000000392044_00017_20111_0006.N1	04-JAN-2006 00:58:27	Dark	38.500	29	Bet Car	1.6720	10200.	77	20111	No
8	GOM_TRA_1PNPDE20060104_005958_000000402044_00017_20111_0007.N1	04-JAN-2006 00:59:58	Dark	40.000	71	Iot Car	2.2460	7700.0	80	20111	No
9	GOM_TRA_1PNPDE20060104_010129_000000452044_00017_20111_0008.N1	04-JAN-2006 01:01:29	Dark	44.500	41	Eps Car	1.8600	4100.0	89	20111	No
10	GOM_TRA_1PNPDE20060104_010534_000000432044_00017_20111_0009.N1	04-JAN-2006 01:05:34	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	20111	No
11	GOM_TRA_1PNPDE20060104_011114_000000402044_00017_20111_0010.N1	04-JAN-2006 01:11:14	Dark	39.500	108	Alp Col	2.6520	15200.	79	20111	No
12	GOM_TRA_1PNPDE20060104_011549_000000422044_00017_20111_0011.N1	04-JAN-2006 01:15:49	Twilight	41.500	101	11Alp Lep	2.5820	7000.0	83	20111	No
13	GOM_TRA_1PNPDE20060104_011840_000000432044_00017_20111_0012.N1	04-JAN-2006 01:18:40	Bright	43.000	7	19Bet Ori	0.10000	14000.	86	20111	No
14	GOM_TRA_1PNPDE20060104_012029_000000412044_00017_20111_0013.N1	04-JAN-2006 01:20:29	Bright	41.000	30	46Eps Ori	1.6940	30000.	82	20111	No
15	GOM_TRA_1PNPDE20060104_012240_000000422044_00017_20111_0014.N1	04-JAN-2006 01:22:40	Bright	41.500	27	24Gam Ori	1.6360	26000.	83	20111	No
16	GOM_TRA_1PNPDE20060104_012553_000000512044_00017_20111_0015.N1	04-JAN-2006 01:25:53	Bright	51.000	13	87Alp Tau	0.86700	3800.0	102	20111	No
17	GOM_TRA_1PNPDE20060104_012859_000000382044_00017_20111_0016.N1	04-JAN-2006 01:28:59	Bright	38.000	28	12Bet Tau	1.6500	15200.	76	20111	No
18	GOM_TRA_1PNPDE20060104_013019_000000372044_00017_20111_0017.N1	04-JAN-2006 01:30:19	Bright	37.000	114	3Iot Aur	2.6930	4600.0	74	20111	No
19	GOM_TRA_1PNPDE20060104_021305_000000352044_00017_20111_0000.N1	04-JAN-2006 02:13:05	Twilight	34.500	120	1Del Oph	2.7340	3200.0	69	20111	Yes
20	GOM_TRA_1PNPDE20060104_021739_000000462044_00017_20111_0001.N1	04-JAN-2006 02:17:39	Twilight	46.000	97	8Bet1Sco	2.5610	30000.	92	20111	No
21	GOM_TRA_1PNPDE20060104_021928_000000382044_00017_20111_0002.N1	04-JAN-2006 02:19:28	Twilight	38.000	158	6Pi Sco	2.9060	28000.	76	20111	No
22	GOM_TRA_1PNPDE20060104_022355_000000382044_00017_20111_0003.N1	04-JAN-2006 02:23:55	Twilight	37.500	131	Gam Lup	2.8000	26000.	75	20111	No
23	GOM_TRA_1PNPDE20060104_022520_000000392044_00017_20111_0004.N1	04-JAN-2006 02:25:20	Twilight	38.500	109	Bet Lup	2.6770	26000.	77	20111	No
24	GOM_TRA_1PNPDE20060104_022649_000000422044_00017_20111_0005.N1	04-JAN-2006 02:26:49	Dark	41.500	78	Alp Lup	2.3040	28000.	83	20111	No
25	GOM_TRA_1PNPDE20060104_022825_00000042044_00017_20111_0006.N1	04-JAN-2006 02:28:25	Dark	4.0000	95	Zet Cen	2.5450	26000.	8	20111	No
26	GOM_TRA_1PNPDE20060104_022954_000000402044_00018_20112_0007.N1	04-JAN-2006 02:29:54	Dark	40.000	4	Alp1Cen	-0.010000	5800.0	80	20112	No
27	GOM_TRA_1PNPDE20060104_023353_000000412044_00018_20112_0008.N1	04-JAN-2006 02:33:53	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	20112	No
28	GOM_TRA_1PNPDE20060104_023903_000000392044_00018_20112_0009.N1	04-JAN-2006 02:39:03	Dark	38.500	29	Bet Car	1.6720	10200.	77	20112	No
29	GOM_TRA_1PNPDE20060104_024034_000000452044_00018_20112_0010.N1	04-JAN-2006 02:40:34	Dark	44.500	71	Iot Car	2.2460	7700.0	89	20112	No
30	GOM_TRA_1PNPDE20060104_024205_000000512044_00018_20112_0011.N1	04-JAN-2006 02:42:05	Dark	50.500	41	Eps Car	1.8600	4100.0	101	20112	No
31	GOM_TRA_1PNPDE20060104_024610_000000522044_00018_20112_0012.N1	04-JAN-2006 02:46:10	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	20112	No
32	GOM_TRA_1PNPDE20060104_025150_000000402044_00018_20112_0013.N1	04-JAN-2006 02:51:50	Dark	39.500	108	Alp Col	2.6520	15200.	79	20112	No
33	GOM_TRA_1PNPDE20060104_025625_000000412044_00018_20112_0014.N1	04-JAN-2006 02:56:25	Twilight	41.000	101	11Alp Lep	2.5820	7000.0	82	20112	No
34	GOM_TRA_1PNPDE20060104_033504_000000372044_00018_20112_0000.N1	04-JAN-2006 03:35:04	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	20112	No
35	GOM_TRA_1PNPDE20060104_033716_000000522044_00018_20112_0001.N1	04-JAN-2006 03:37:16	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	20112	No
36	GOM_TRA_1PNPDE20060104_034329_000000352044_00018_20112_0002.N1	04-JAN-2006 03:43:29	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	20112	No
37	GOM_TRA_1PNPDE20060104_034627_000000352044_00018_20112_0003.N1	04-JAN-2006 03:46:27	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	20112	No
38	GOM_TRA_1PNPDE20060104_035125_000000372044_00018_20112_0004.N1	04-JAN-2006 03:51:25	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	20112	No
39	GOM_TRA_1PNPDE20060104_035341_000000352044_00018_20112_0005.N1	04-JAN-2006 03:53:41	Twilight	34.500	120	1Del Oph	2.7340	3200.0	69	20112	No
40	GOM_TRA_1PNPDE20060104_035815_000000372044_00018_20112_0006.N1	04-JAN-2006 03:58:15	Twilight	36.500	97	8Bet1Sco	2.5610	30000.	73	20112	No
41	GOM_TRA_1PNPDE20060104_040005_000000392044_00018_20112_0007.N1	04-JAN-2006 04:00:05	Twilight	38.500	158	6Pi Sco	2.9060	28000.	77	20112	No
42	GOM_TRA_1PNPDE20060104_040432_000000392044_00018_20112_0008.N1	04-JAN-2006 04:04:32	Twilight	39.000	131	Gam Lup	2.8000	26000.	78	20112	No
43	GOM_TRA_1PNPDE20060104_040556_000000392044_00018_20112_0009.N1	04-JAN-2006 04:05:56	Twilight	39.000	109	Bet Lup	2.6770	26000.	78	20112	No
44	GOM_TRA_1PNPDE20060104_041030_000000532044_00019_20113_0010.N1	04-JAN-2006 04:10:30	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	20113	No
45	GOM_TRA_1PNPDE20060104_041429_000000492044_00019_20113_0011.N1	04-JAN-2006 04:14:29	Dark	48.500	12	Alp1Cru	0.77500	30000.	97	20113	No
46	GOM_TRA_1PNPDE20060104_041940_000000422044_00019_20113_0012.N1	04-JAN-2006 04:19:40	Dark	41.500	29	Bet Car	1.6720	10200.	83	20113	No

47	GOM_TRA_1PNPDE20060104_042111_000000402044_00019_20113_0013.N1	04-JAN-2006 04:21:11	Dark	39.500	71	lot Car	2.2460	7700.0	79	20113	No
48	GOM_TRA_1PNPDE20060104_042242_000000442044_00019_20113_0014.N1	04-JAN-2006 04:22:42	Dark	44.000	41	Eps Car	1.8600	4100.0	88	20113	No
49	GOM_TRA_1PNPDE20060104_042647_000000462044_00019_20113_0015.N1	04-JAN-2006 04:26:47	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	20113	No
50	GOM_TRA_1PNPDE20060104_043226_000000392044_00019_20113_0016.N1	04-JAN-2006 04:32:26	Dark	38.500	108	Alp Col	2.6520	15200.	77	20113	No

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



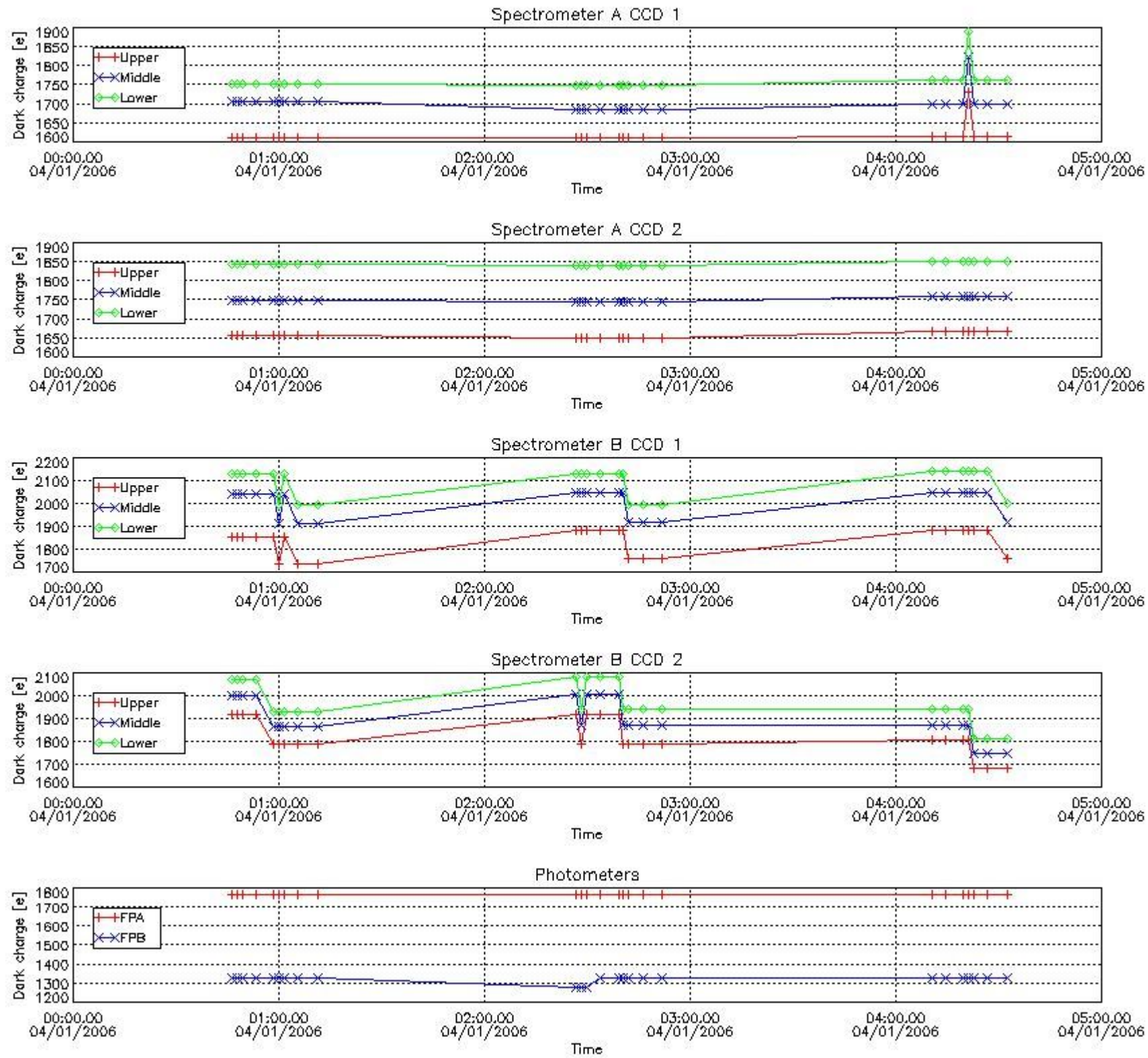
### 4. Overview of dark signal processing per product

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



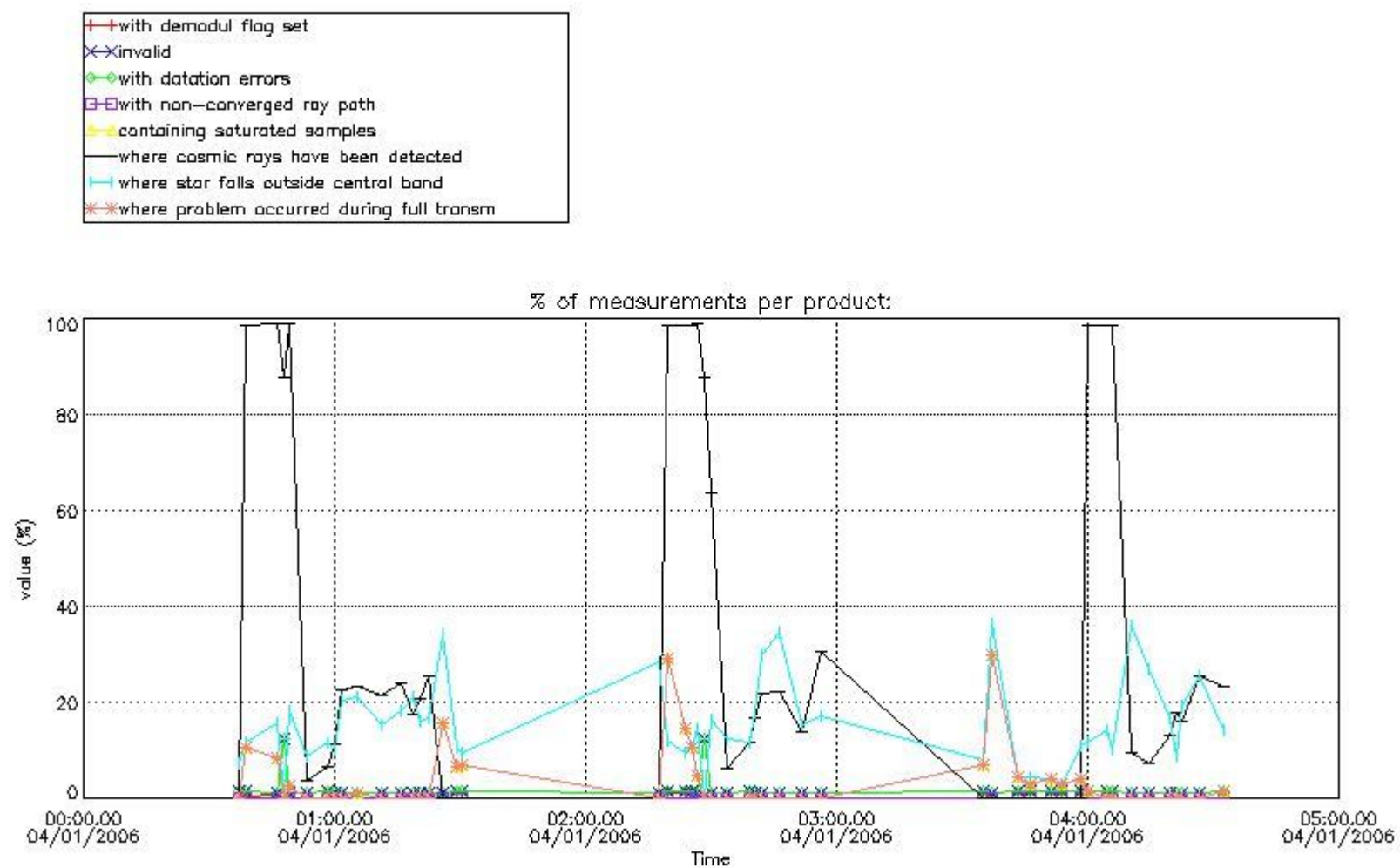
## 5. Demodulation flag and quality information monitoring

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.

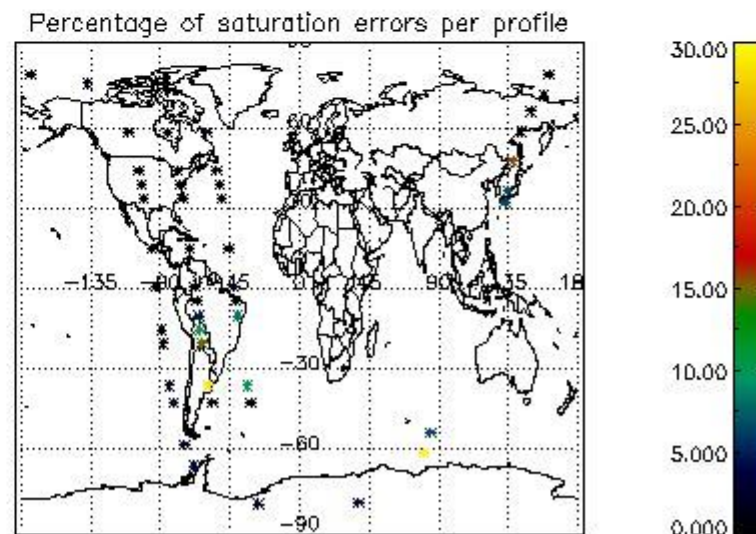
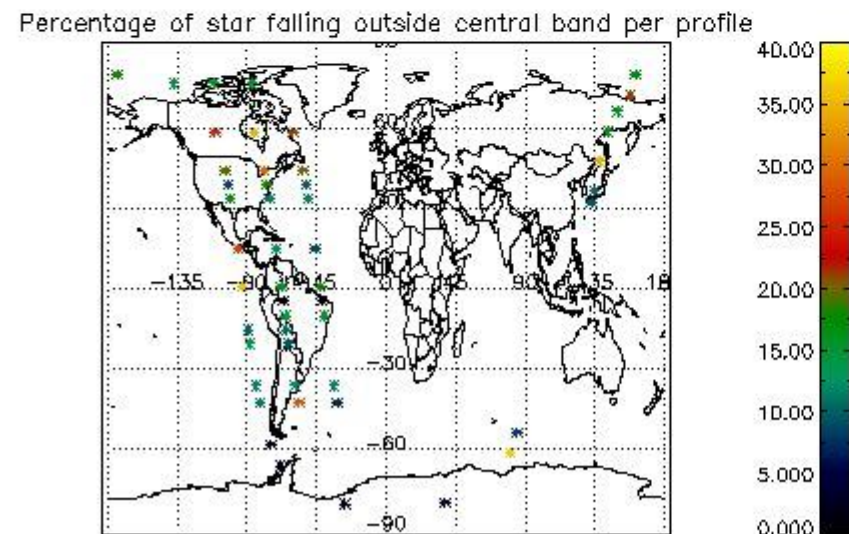
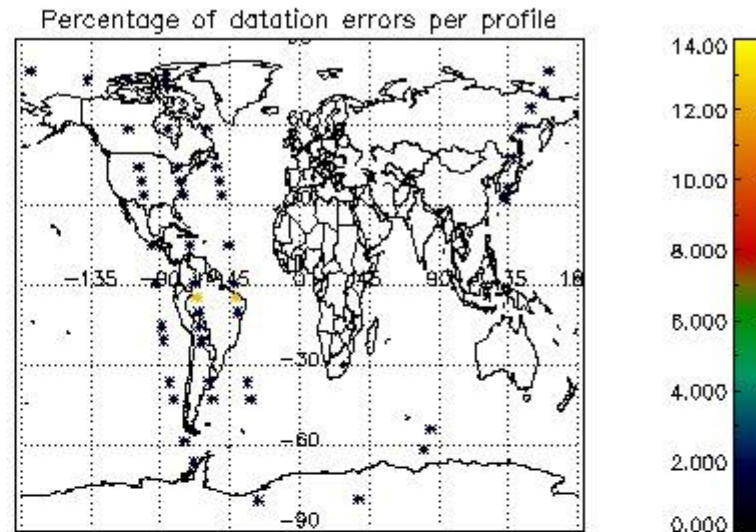
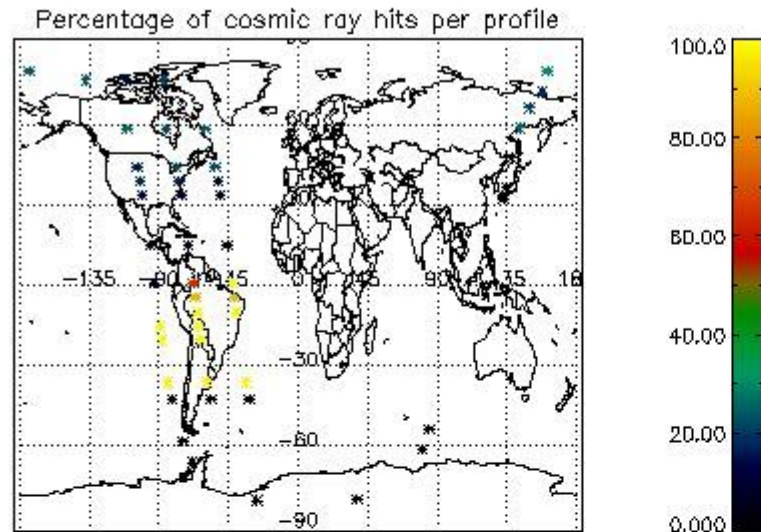
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.6122 %
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)



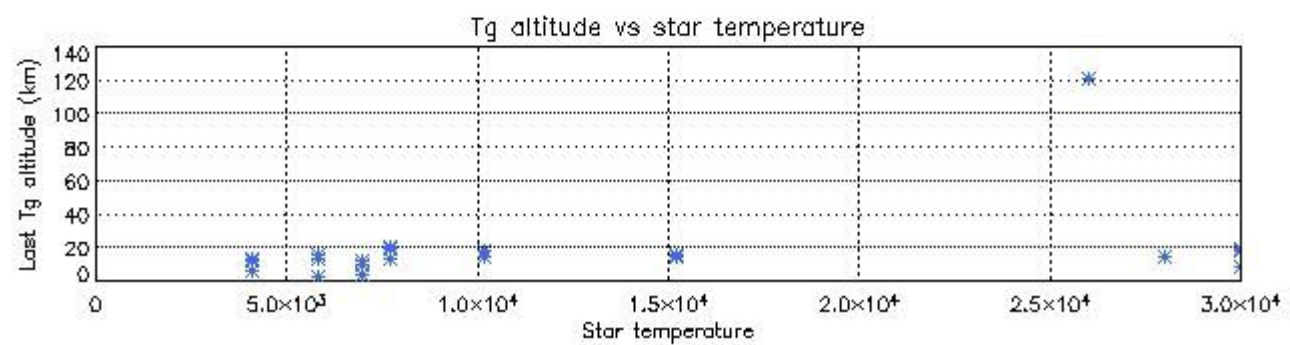
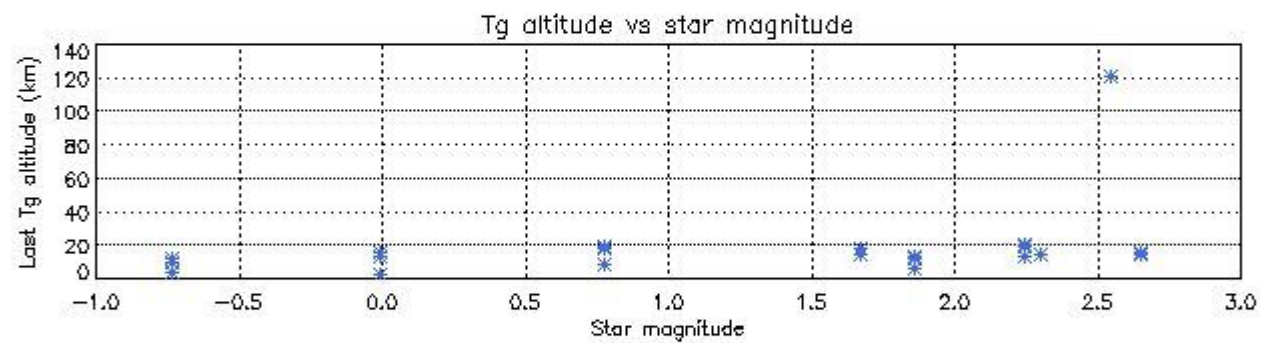
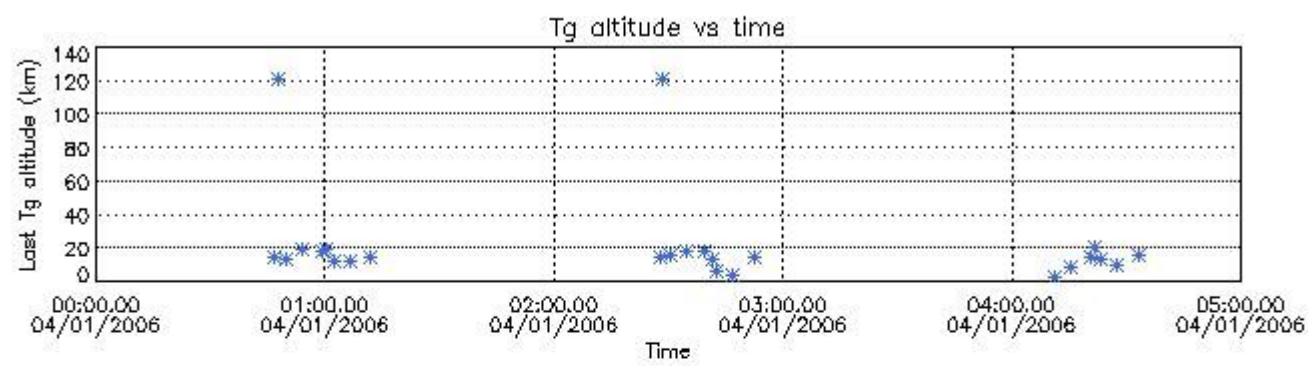
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	21.997	14.950	16.511
St. deviation:	30.149	6.6207	3.8259
Maximum:	121.10	22.431	22.860
Minimum:	2.7298	3.2469	8.8629
Number of data:	25.000	11.000	13.000

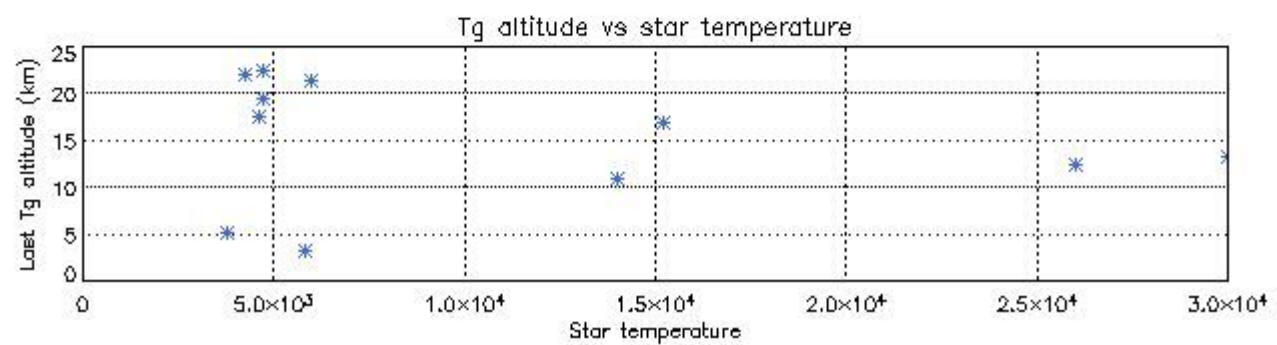
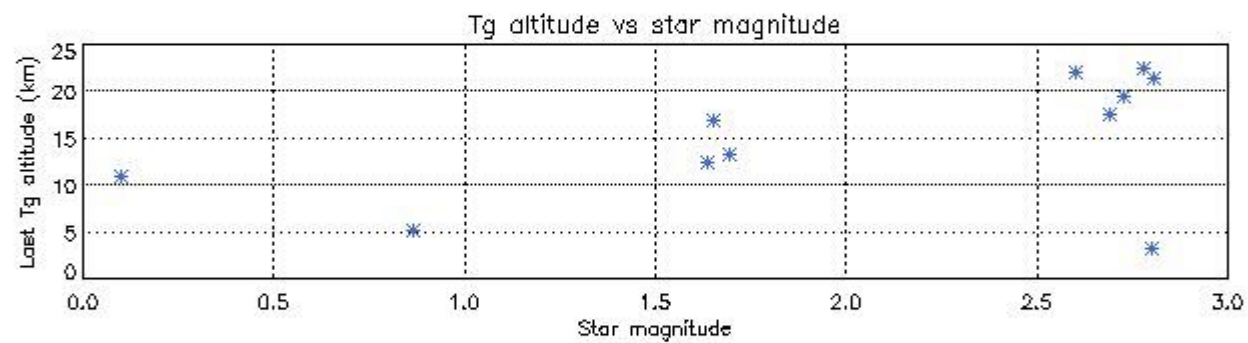
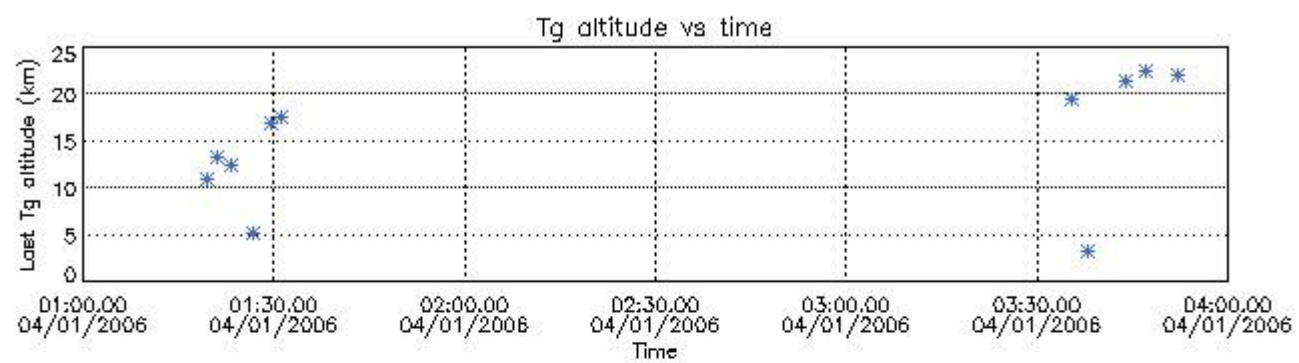
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

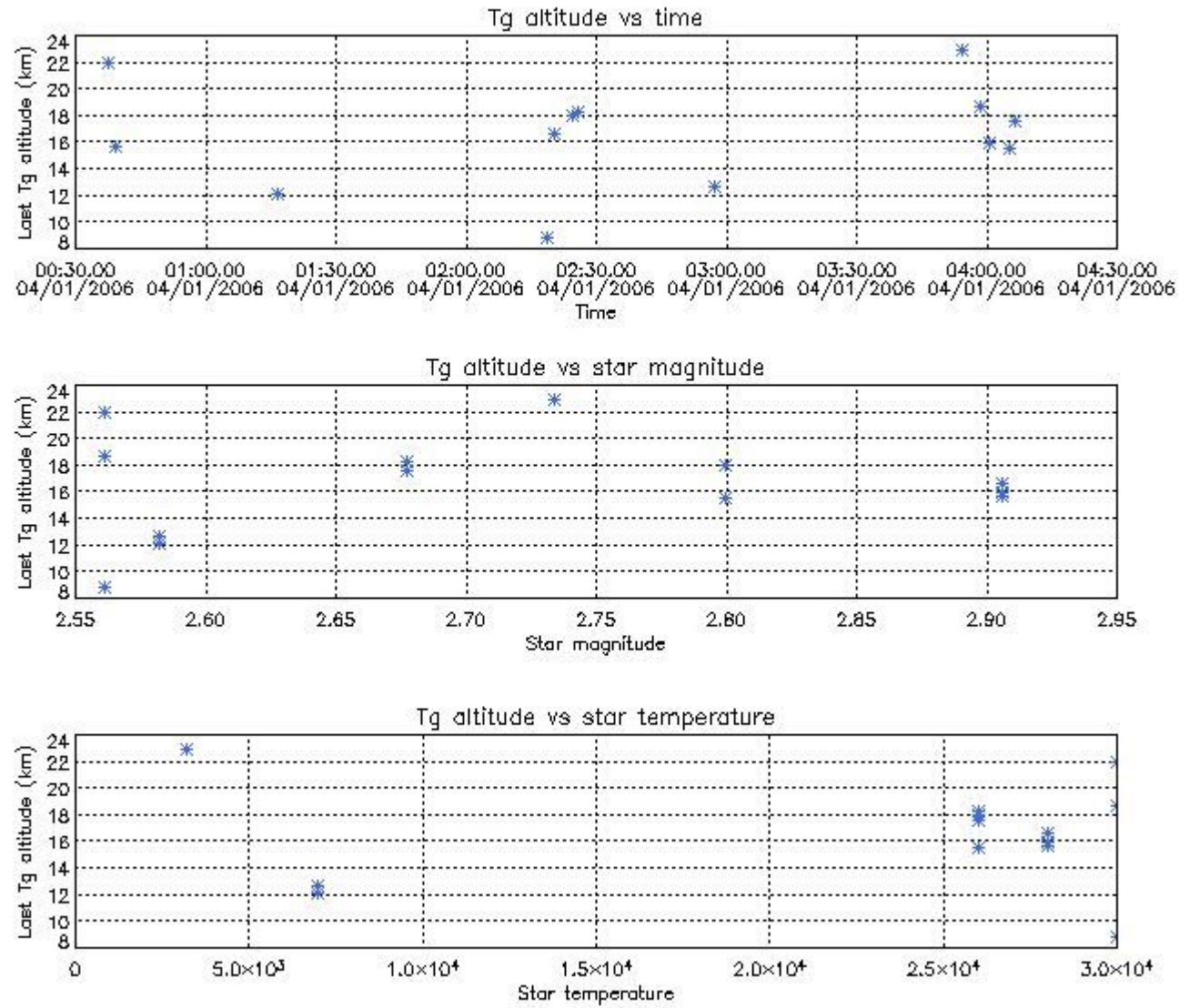
Tangent altitude at which the star is lost



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

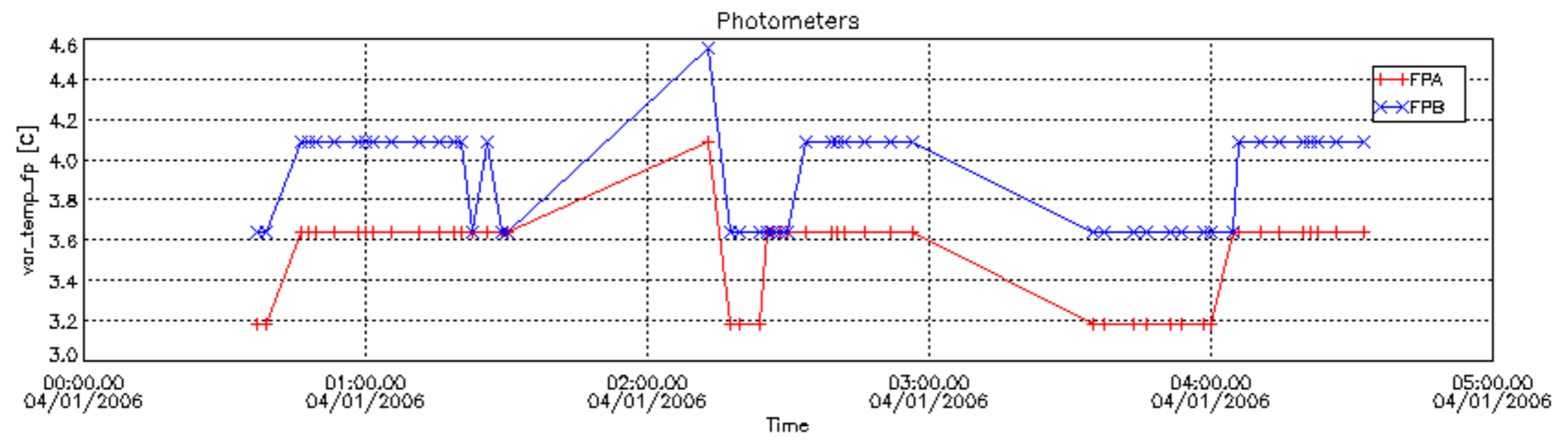
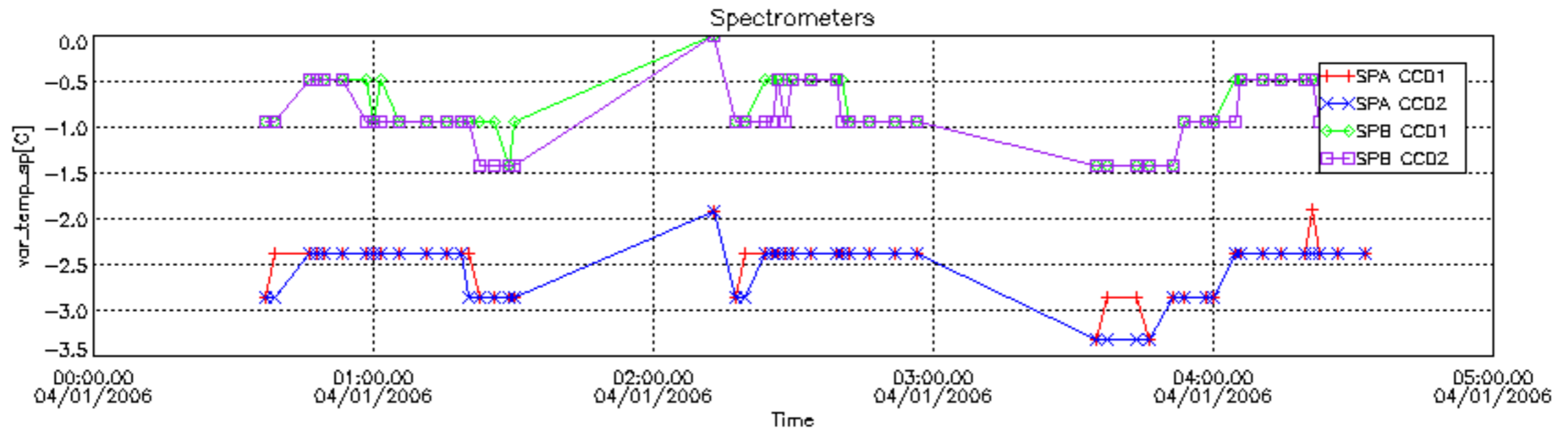
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

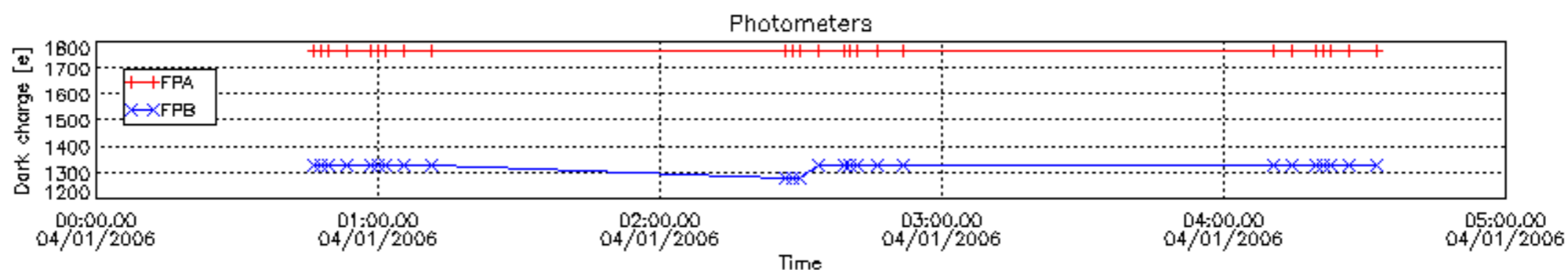
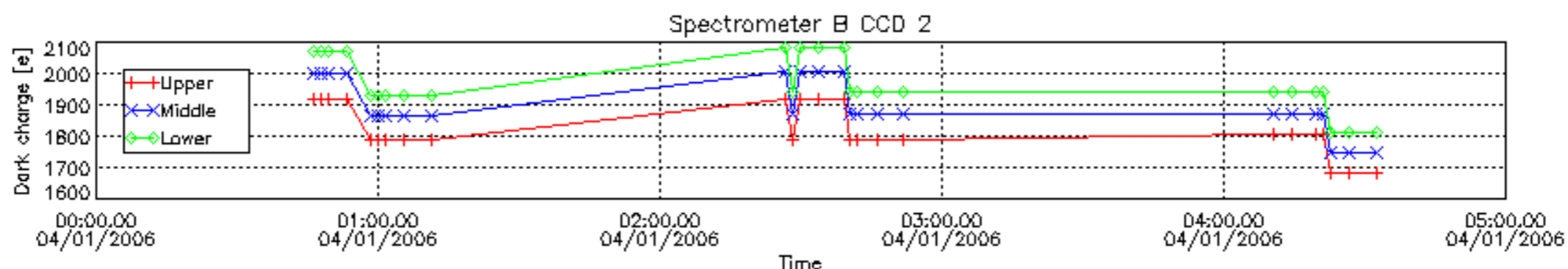
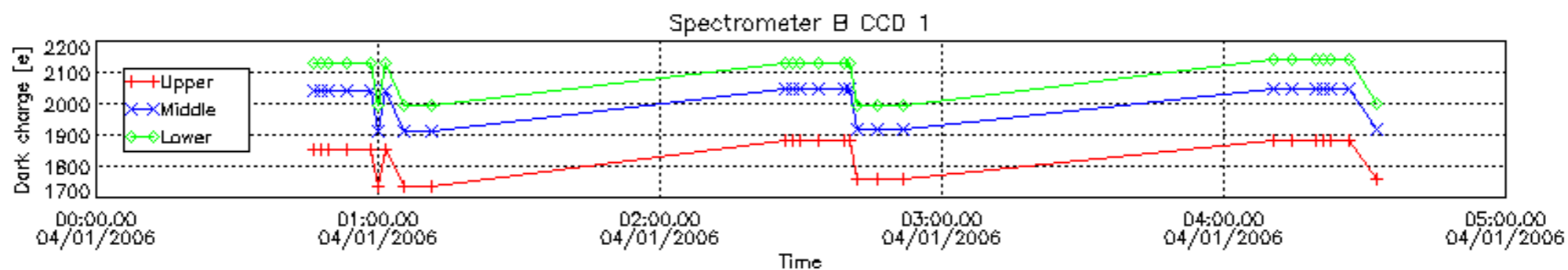
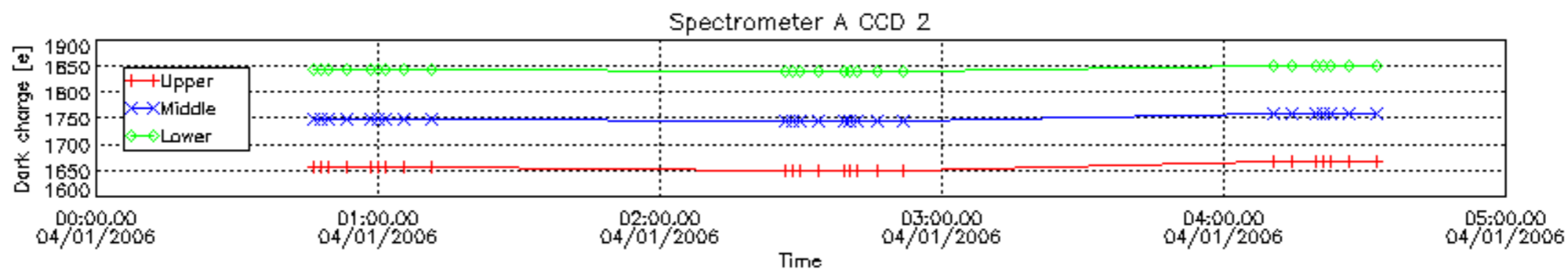
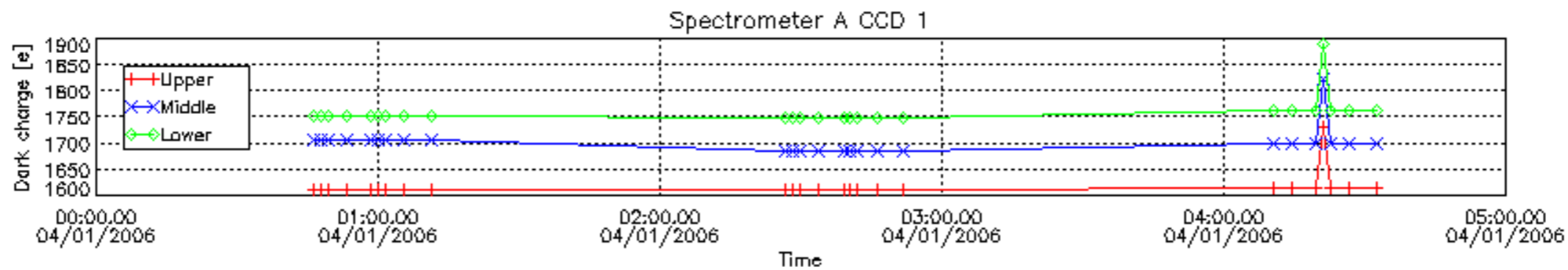
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.7	1446.3	1460.0	1446.1
St. deviation:	4.5639	5.8596	5.3773	6.6350
Maximum:	1561.0	1476.0	1490.0	1474.0
Minimum:	1432.0	1414.0	1443.0	1421.0
Number of data:	20750.	20750.	8850.0	8850.0

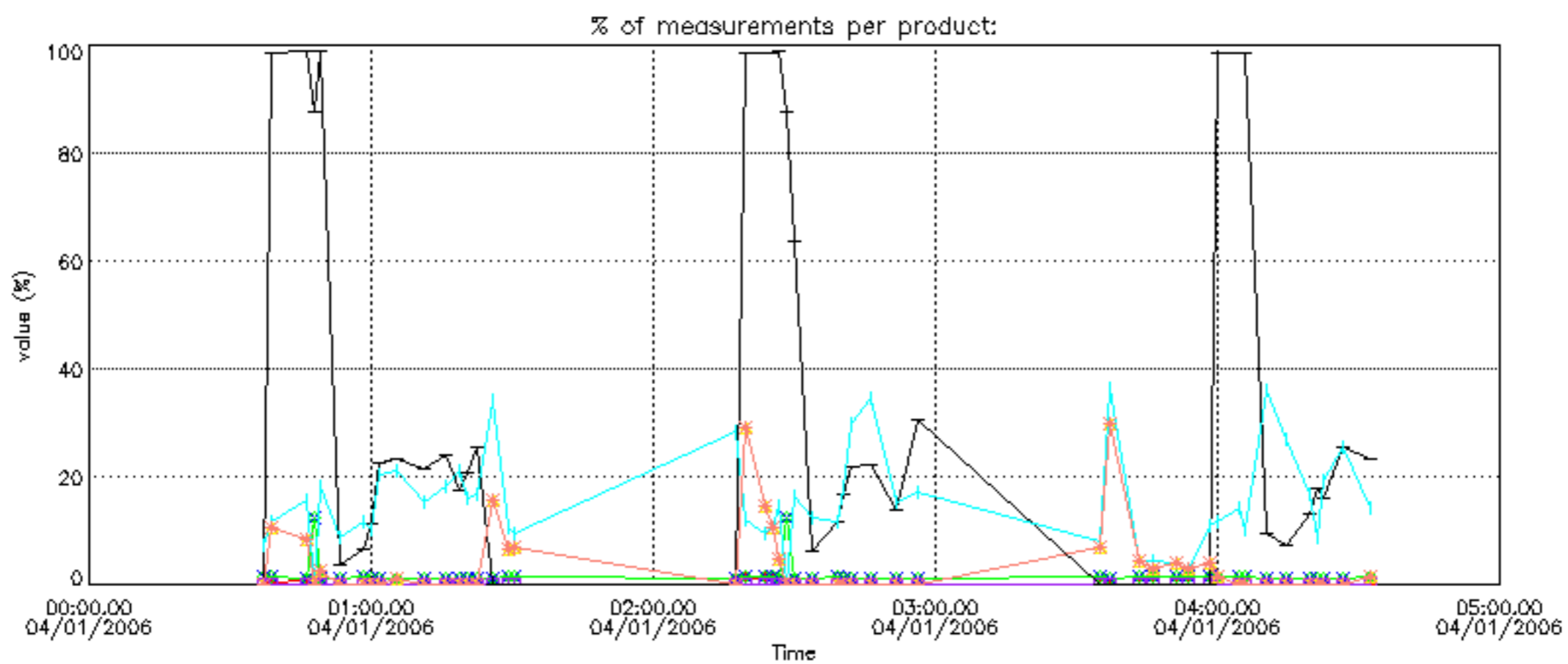
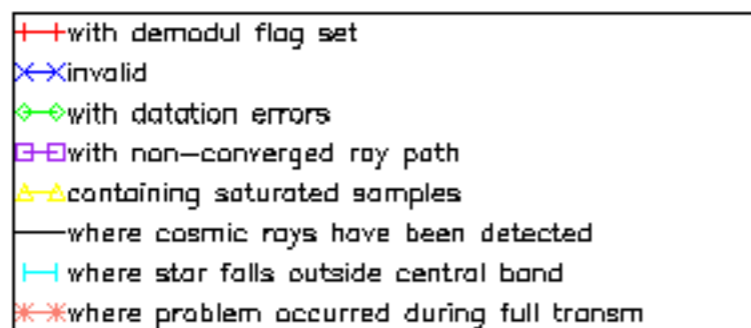
## 8. Auxiliary Data Files used for the production reported in section 2.2

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.

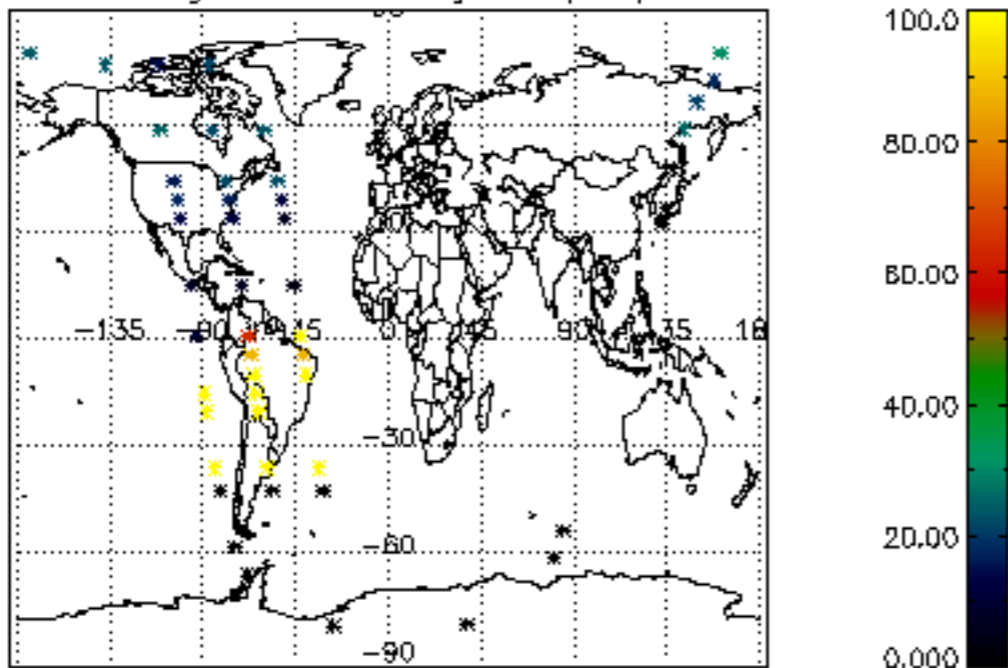
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	04-JAN-2006 00:37:03
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20051220_153205_20051218_000000_20100101_000000	1	04-JAN-2006 00:37:03
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	04-JAN-2006 00:37:03
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-JAN-2006 00:37:03
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	04-JAN-2006 00:37:03
ECMWF_FILE	AUX_ECF_AXNECM20060103_060032_20060103_210000_20060104_090000	1	04-JAN-2006 00:37:03
ECMWF_FILE	AUX_ECF_AXNECM20060103_193047_20060104_030000_20060104_150000	34	04-JAN-2006 03:35:04
OPTIONAL_ECMWF_FILE	NOT USED	1	04-JAN-2006 00:37:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060103_225358_000057382044_00015_20109_1242.N1	1	04-JAN-2006 00:37:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060104_003455_000054192044_00016_20110_1243.N1	19	04-JAN-2006 02:13:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060104_021034_000041442044_00017_20111_1244.N1	34	04-JAN-2006 03:35:04



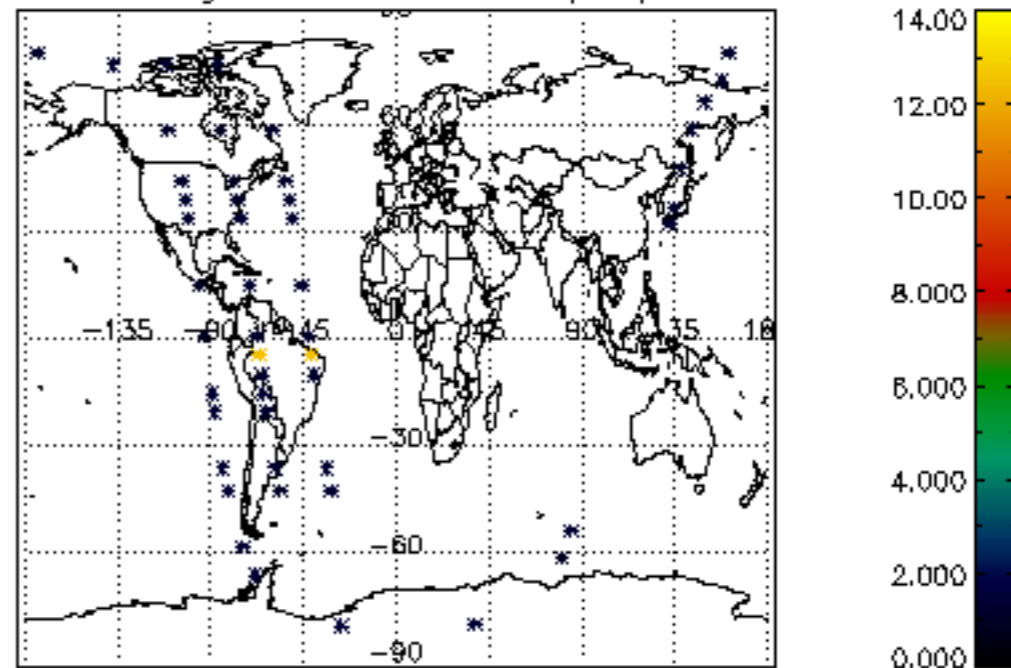




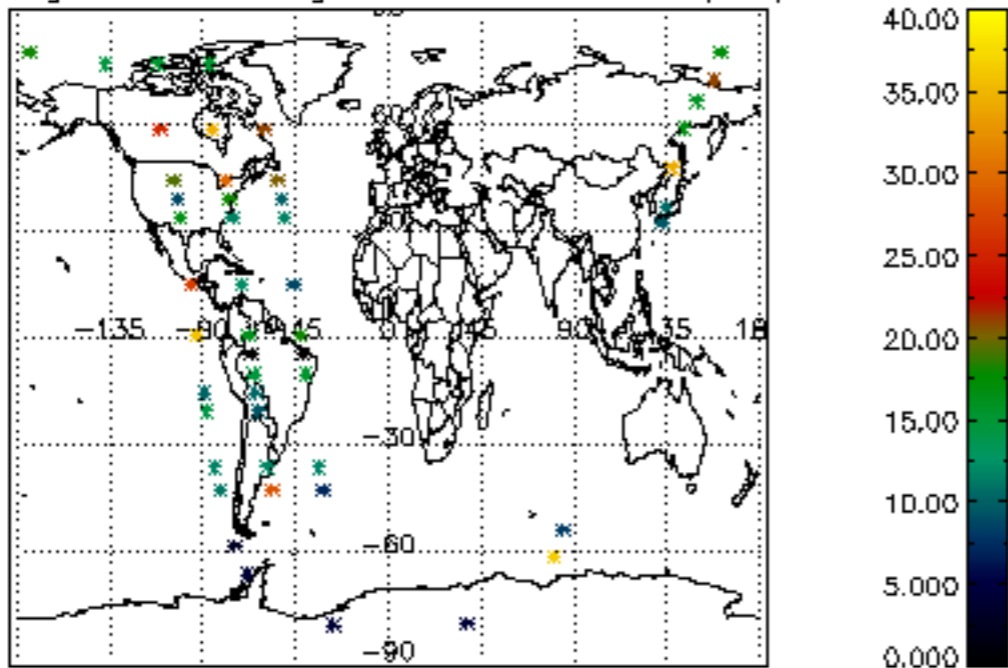
Percentage of cosmic ray hits per profile



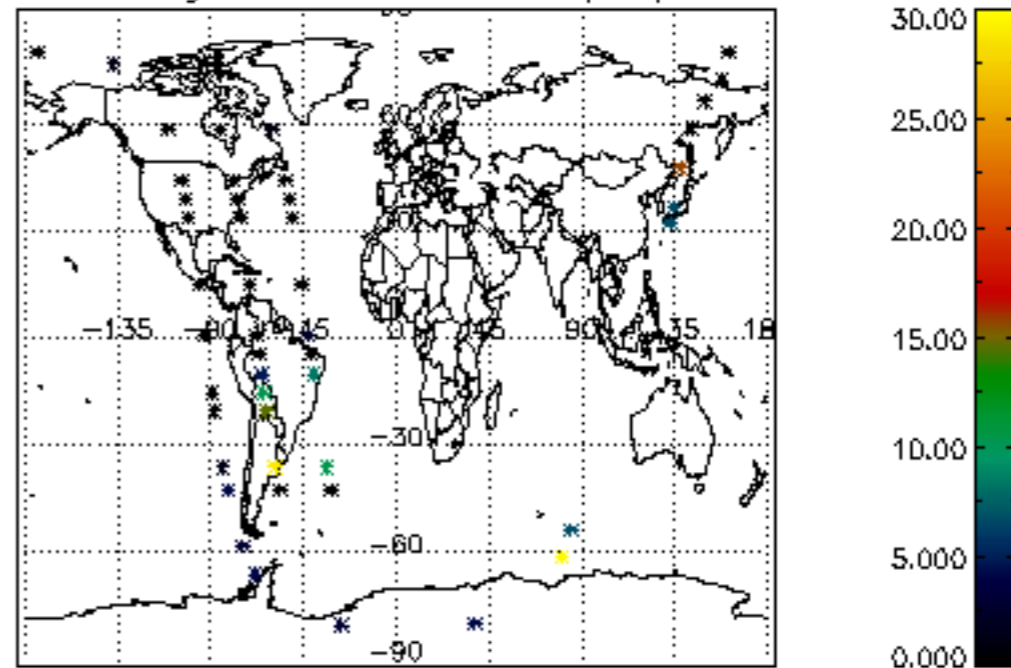
Percentage of datation errors per profile



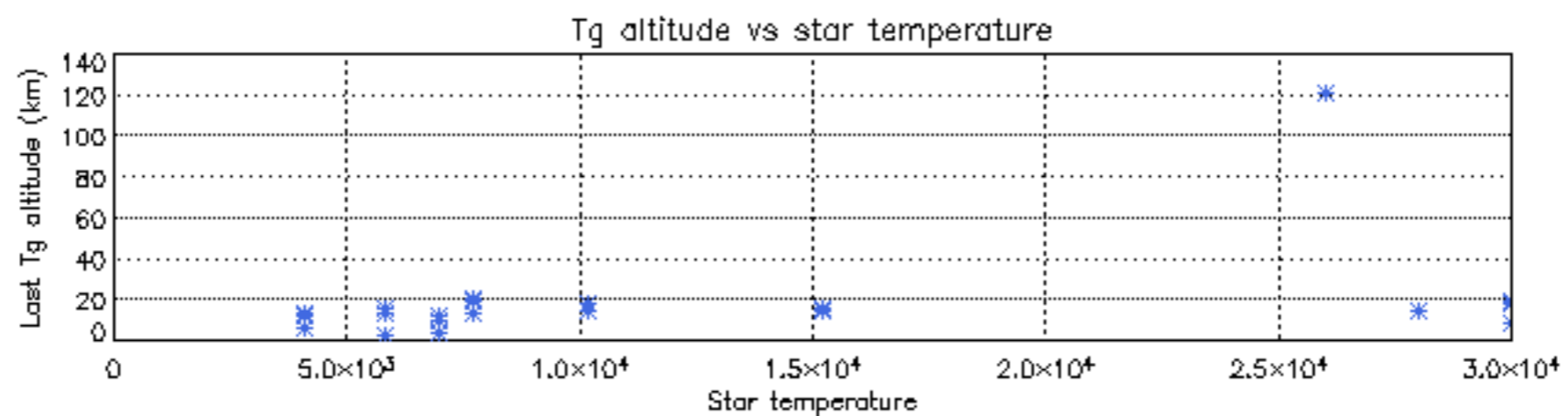
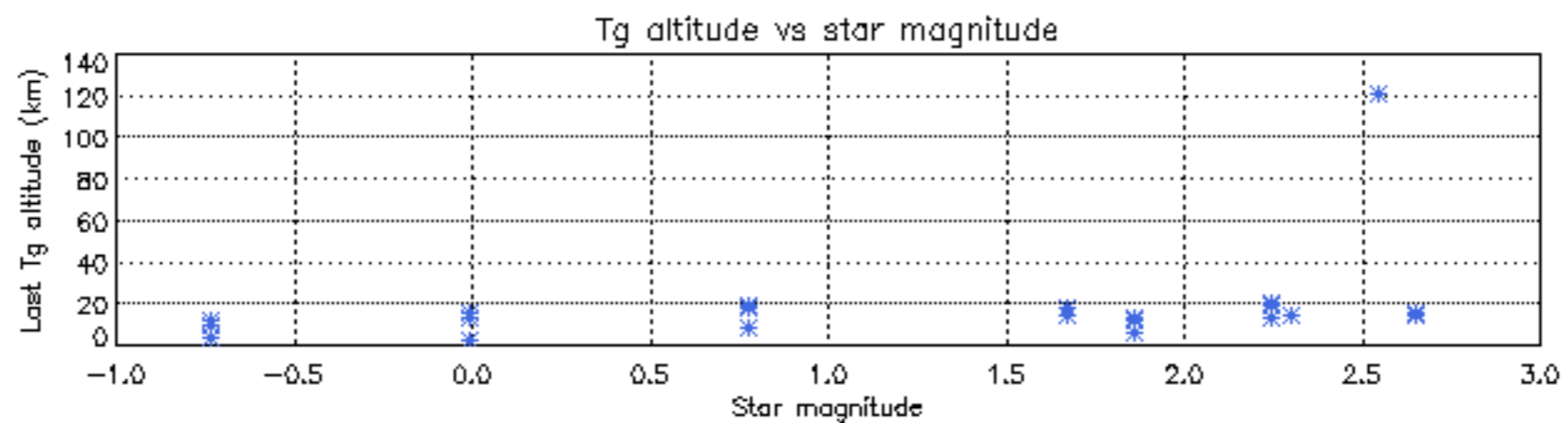
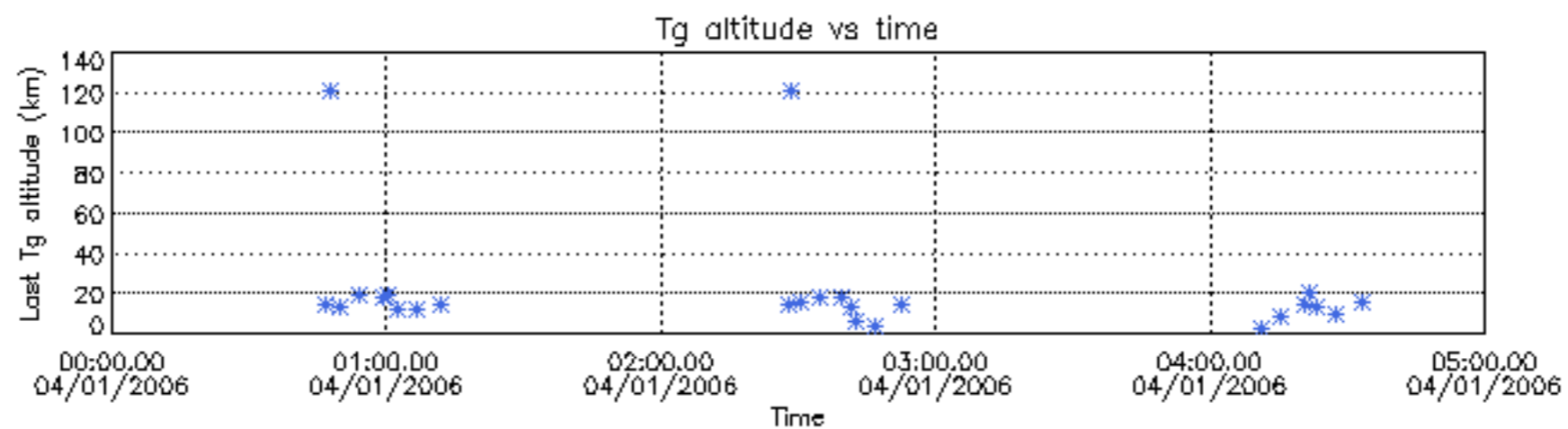
Percentage of star falling outside central band per profile



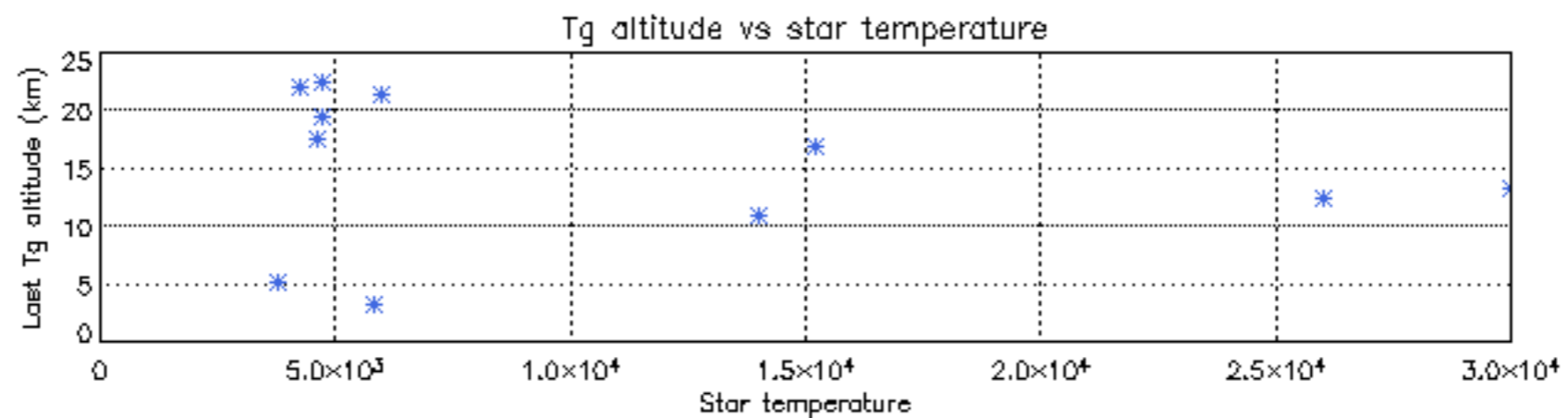
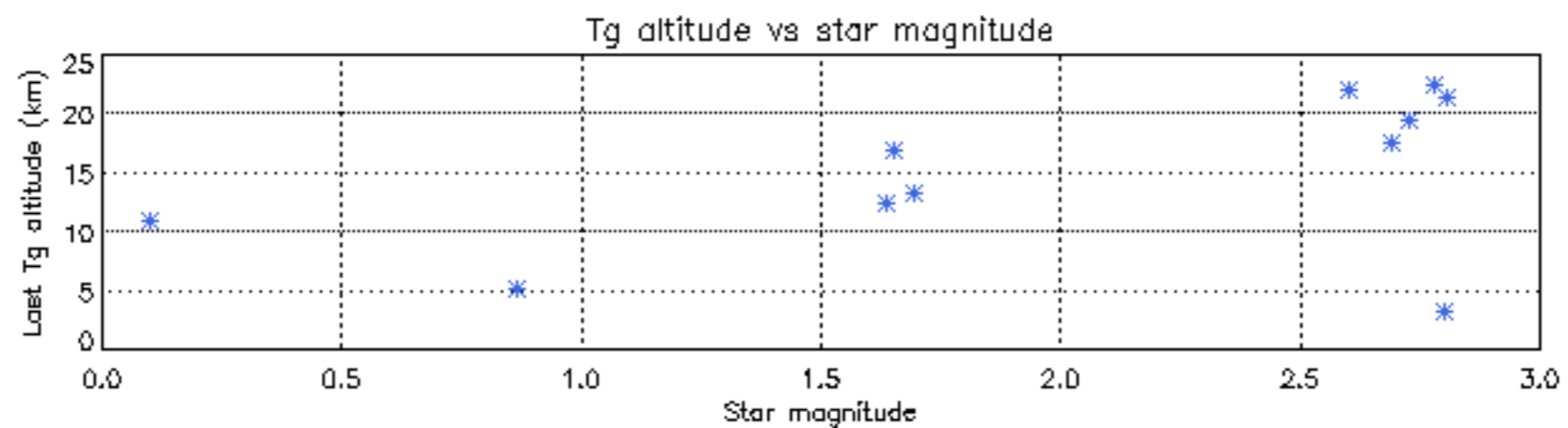
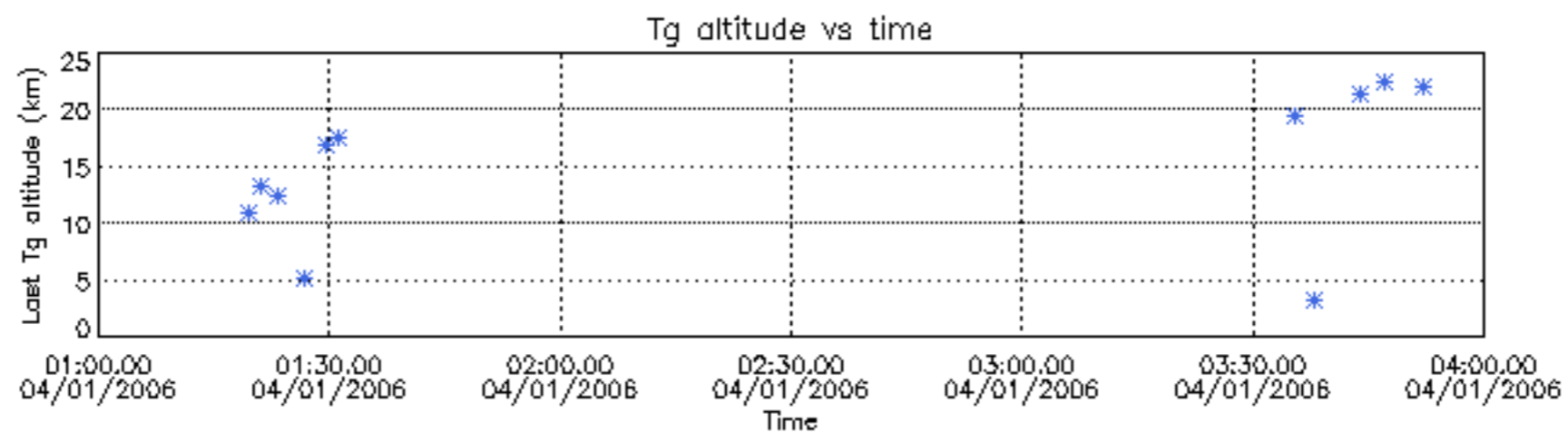
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

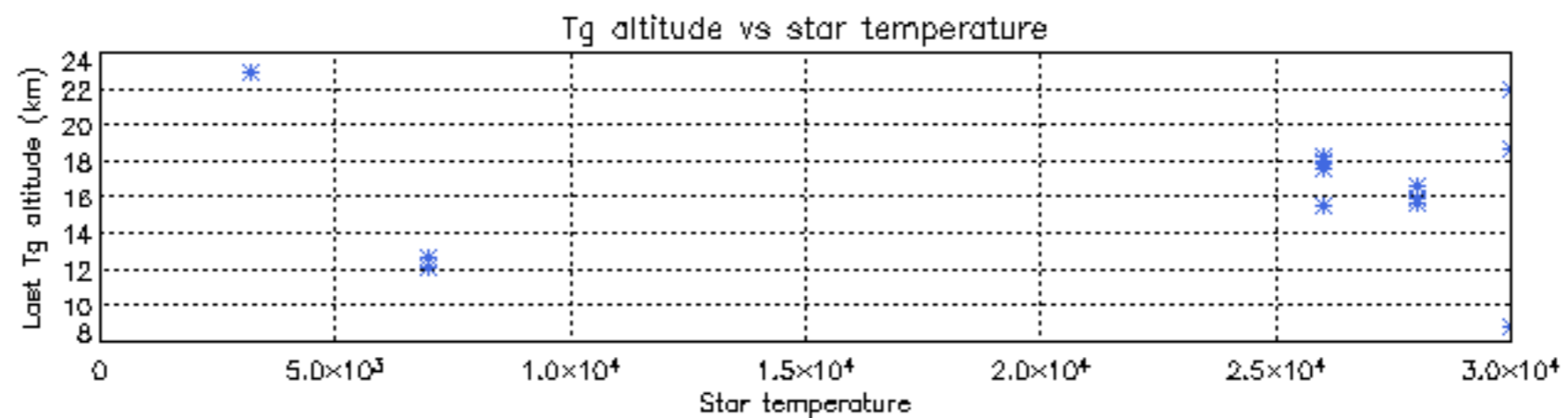
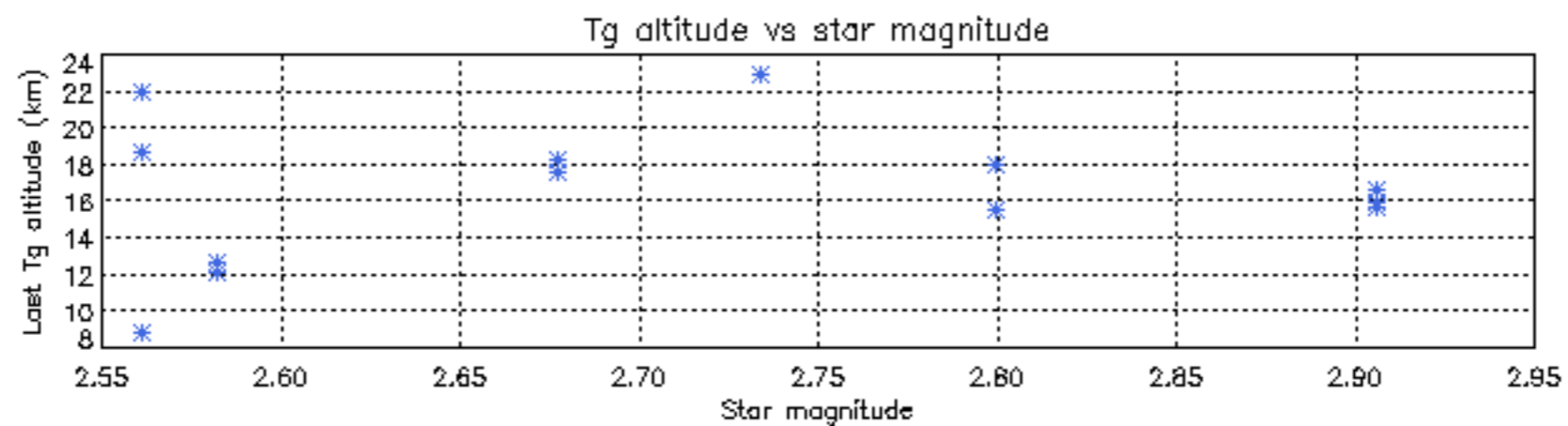
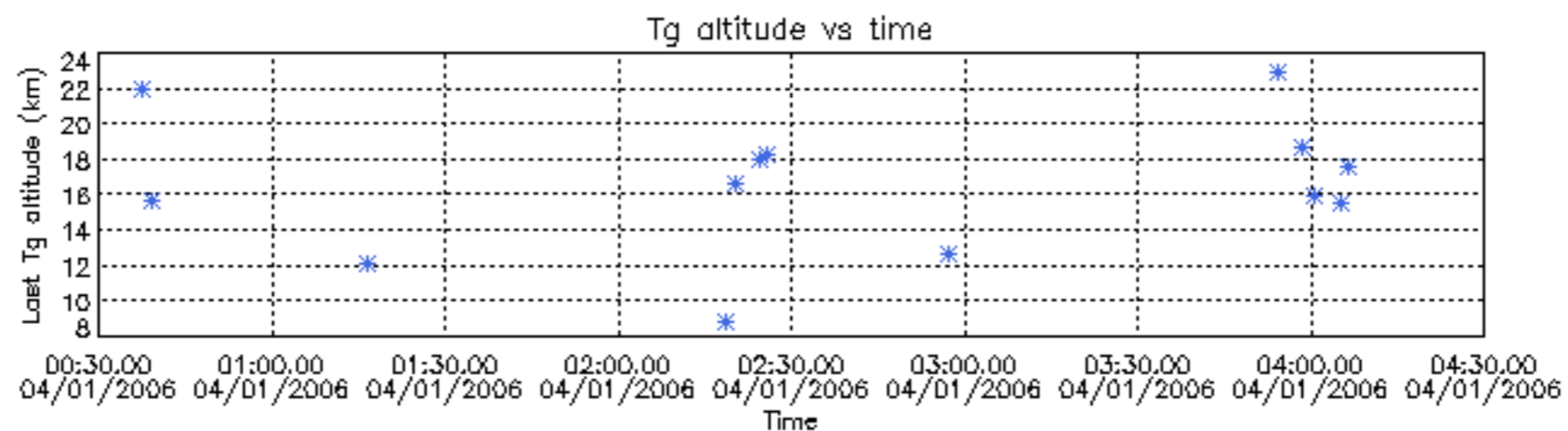


Tangent altitude at which the star is lost





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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 11; 7015.0; 01-JAN-2006 00:59:40; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;20067  
 12; 7357.0; 01-JAN-2006 01:05:22; Dark ; 40.5; 108; Alp Col ; 2.65; 15200;occ; 81; 0;20067  
 13; 7634.1; 01-JAN-2006 01:09:59; Dark ; 42.0; 101; 11Alp Lep ; 2.58; 7000;occ; 84; 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  
 16; 8049.7; 01-JAN-2006 01:16:55; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;20067  
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 19; 8508.4; 01-JAN-2006 01:24:34; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;20067  
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 21; 8728.7; 01-JAN-2006 01:28:14; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;20067  
 22; 8836.5; 01-JAN-2006 01:30:02; Bright; 37.5; 35; 33Alp Per ; 1.79; 6250;occ; 75; 0;20067  
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 29; 10926.7; 01-JAN-2006 02:04:52; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;20067  
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 6; 2016.3; 03-JAN-2006 20:20:53; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;20108  
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13; 990.0; 03-JAN-2006 21:44:22; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;20109
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13; 1394.6; 16-JAN-2006 21:42:29; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;20295
14; 1479.4; 16-JAN-2006 21:43:53; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;20295
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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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 21; 8444.4; 16-JAN-2006 23:39:58; Bright; 35.5; 28; 12Bet Tau ; 1.65; 15200;occ; 71; 0;20295  
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 26; 10304.6; 17-JAN-2006 00:10:59; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;20295  
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 6; -3758.2; 16-JAN-2006 08:32:24; Bright; 34.0; 176; 23Zet Tau ; 3.02; 22000;occ; 68; 0;20287



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19;	1480.1;	17-JAN-2006	04:26:18;	Dark	;	40.0;	179;	240mi2CMA	;	3.03;	24000;occ;	80;	0;	20299
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21;	1762.7;	17-JAN-2006	04:31:00;	Dark	;	39.0;	56;	53Kap Ori	;	2.07;	30000;occ;	78;	0;	20299
22;	1833.2;	17-JAN-2006	04:32:11;	Dark	;	39.5;	125;	44Iot Ori	;	2.77;	30000;occ;	79;	0;	20299
23;	1910.7;	17-JAN-2006	04:33:28;	Dark	;	42.0;	30;	46Eps Ori	;	1.69;	30000;occ;	84;	0;	20299
24;	2042.2;	17-JAN-2006	04:35:40;	Dark	;	52.0;	14;	58Alp Ori	;	0.87;	3000;occ;	104;	0;	20299
25;	2188.0;	17-JAN-2006	04:38:06;	Dark	;	46.0;	44;	24Gam Gem	;	1.93;	11000;occ;	92;	0;	20299
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27;	2409.1;	17-JAN-2006	04:41:47;	Bright;	;	37.5;	28;	12Bet Tau	;	1.65;	15200;occ;	75;	0;	20299
28;	2506.8;	17-JAN-2006	04:43:24;	Bright;	;	37.0;	114;	3Iot Aur	;	2.69;	4600;occ;	74;	0;	20299
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26;	8327.7;	17-JAN-2006	06:20:25;	Bright;	;	41.0;	151;	13Mu Gem	;	2.89;	3000;occ;	82;	0;	20299
27;	8445.4;	17-JAN-2006	06:22:23;	Bright;	;	36.5;	28;	12Bet Tau	;	1.65;	15200;occ;	73;	0;	20299
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13;	1482.1;	17-JAN-2006	22:52:55;	Dark	;	39.0;	179;	240mi2CMA	;	3.03;	24000;occ;	78;	0;	20310
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4;-4198.2; 18-JAN-2006 17:25:26; Dark ; 37.5; 125; 44Iot Ori ; 2.77; 30000;occ; 75; 0;20321
5;-4121.0; 18-JAN-2006 17:26:43; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;20321
6;-3990.7; 18-JAN-2006 17:28:53; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;20321
7;-3848.7; 18-JAN-2006 17:31:15; Dark ; 51.5; 44; 24Gam Gem ; 1.93; 11000;occ; 103; 0;20321
8;-3744.4; 18-JAN-2006 17:33:00; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;20321

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9; -3622.8; 18-JAN-2006 17:35:01; Bright; 35.5; 28; 12Bet Tau ; 1.65; 15200;occ; 71; 0;20321  
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 12; -2610.0; 18-JAN-2006 17:51:54; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;20321  
 13; -1955.0; 18-JAN-2006 18:02:49; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;20321  
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 21; 99.2; 18-JAN-2006 18:37:03; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;20322  
 22; 291.8; 18-JAN-2006 18:40:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20322  
 23; 632.0; 18-JAN-2006 18:45:56; Dark ; 45.0; 29; Bet Car ; 1.67; 10200;occ; 90; 0;20322  
 24; 753.5; 18-JAN-2006 18:47:57; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;20322  
 25; 864.4; 18-JAN-2006 18:49:48; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;20322  
 26; 1032.1; 18-JAN-2006 18:52:36; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;20322

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 13; -1954.9; 18-JAN-2006 19:43:25; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;20322  
 14; -1761.9; 18-JAN-2006 19:46:38; Bright; 32.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 65; 0;20322  
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 21; 99.4; 18-JAN-2006 20:17:39; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;20323  
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 23; 632.2; 18-JAN-2006 20:26:32; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;20323  
 24; 753.8; 18-JAN-2006 20:28:34; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;20323  
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1; 872.6; 17-JAN-2006 21:02:10; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 27;20309  
 2; 1029.9; 17-JAN-2006 21:04:47; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;20309  
 3; 1245.6; 17-JAN-2006 21:08:23; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;20309  
 4; 1397.3; 17-JAN-2006 21:10:54; Dark ; 43.5; 23; 21Eps CMa ; 1.50; 26000;occ; 87; 0;20309  
 5; 1481.9; 17-JAN-2006 21:12:19; Dark ; 38.5; 179; 24Omi2CMa ; 3.03; 24000;occ; 77; 0;20309  
 6; 1614.0; 17-JAN-2006 21:14:31; Dark ; 44.5; 1; 9Alp CMa ; -1.44; 11000;occ; 89; 0;20309  
 7; 1764.3; 17-JAN-2006 21:17:01; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;20309  
 8; 1835.1; 17-JAN-2006 21:18:12; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;20309  
 9; 1912.5; 17-JAN-2006 21:19:30; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;20309  
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 11; 2187.4; 17-JAN-2006 21:24:04; Dark ; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;20309  
 12; 2509.3; 17-JAN-2006 21:29:26; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;20309  
 13; 2671.8; 17-JAN-2006 21:32:09; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;20309  
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 16; 4271.3; 17-JAN-2006 21:58:48; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;20309  
 17; 4748.8; 17-JAN-2006 22:06:46; Bright; 33.5; 59; 55Alp Oph ; 2.08; 8900;occ; 67; 0;20309  
 18; 4875.9; 17-JAN-2006 22:08:53; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;20309  
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1; -567.9; 18-JAN-2006 23:27:44; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;20324  
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 3; -245.0; 18-JAN-2006 23:33:07; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;20324

4;	100.4;	18-JAN-2006	23:38:52;	Dark	;	53.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	107;	0;	20325
5;	292.6;	18-JAN-2006	23:42:04;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	20325
6;	632.8;	18-JAN-2006	23:47:44;	Dark	;	37.5;	29;	Bet Car	;	1.67;	10200;occ;	75;	0;	20325
7;	754.7;	18-JAN-2006	23:49:46;	Dark	;	42.5;	71;	Iot Car	;	2.25;	7700;occ;	85;	0;	20325
8;	865.5;	18-JAN-2006	23:51:37;	Dark	;	40.0;	46;	Del Vel	;	1.95;	10600;occ;	80;	0;	20325
9;	1032.4;	18-JAN-2006	23:54:24;	Dark	;	44.5;	2;	Alp Car	;	-0.74;	7000;occ;	89;	0;	20325
10;	1400.5;	19-JAN-2006	00:00:32;	Dark	;	44.5;	23;	21Eps CMA	;	1.50;	26000;occ;	89;	0;	20325
11;	1484.7;	19-JAN-2006	00:01:56;	Dark	;	40.5;	179;	240mi2CMA	;	3.03;	24000;occ;	81;	0;	20325
12;	1616.3;	19-JAN-2006	00:04:08;	Dark	;	45.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	91;	0;	20325
13;	1767.4;	19-JAN-2006	00:06:39;	Dark	;	39.5;	56;	53Kap Ori	;	2.07;	30000;occ;	79;	0;	20325
14;	1838.6;	19-JAN-2006	00:07:50;	Dark	;	39.0;	125;	44Iot Ori	;	2.77;	30000;occ;	78;	0;	20325
15;	1915.8;	19-JAN-2006	00:09:07;	Dark	;	39.0;	30;	46Eps Ori	;	1.69;	30000;occ;	78;	0;	20325
16;	2045.8;	19-JAN-2006	00:11:17;	Dark	;	52.0;	14;	58Alp Ori	;	0.87;	3000;occ;	104;	0;	20325
17;	2187.1;	19-JAN-2006	00:13:39;	Dark	;	52.0;	44;	24Gam Gem	;	1.93;	11000;occ;	104;	0;	20325
18;	2291.5;	19-JAN-2006	00:15:23;	Bright;	;	40.5;	151;	13Mu Gem	;	2.89;	3000;occ;	81;	0;	20325
19;	2413.9;	19-JAN-2006	00:17:26;	Bright;	;	35.0;	28;	12Bet Tau	;	1.65;	15200;occ;	70;	0;	20325
20;	2541.9;	19-JAN-2006	00:19:33;	Bright;	;	34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	20325
21;	2672.1;	19-JAN-2006	00:21:44;	Bright;	;	35.5;	42;	34Bet Aur	;	1.90;	10200;occ;	71;	0;	20325
22;	3426.1;	19-JAN-2006	00:34:18;	Bright;	;	34.5;	49;	1Alp UMi	;	1.99;	6300;occ;	69;	0;	20325
23;	4081.3;	19-JAN-2006	00:45:13;	Bright;	;	52.0;	130;	23Bet Dra	;	2.80;	5800;occ;	104;	0;	20325
24;	4274.6;	19-JAN-2006	00:48:26;	Bright;	;	33.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	66;	0;	20325
25;	4752.3;	19-JAN-2006	00:56:24;	Bright;	;	33.0;	59;	55Alp Oph	;	2.08;	8900;occ;	66;	0;	20325
26;	4879.0;	19-JAN-2006	00:58:31;	Bright;	;	33.5;	126;	60Bet Oph	;	2.77;	4250;occ;	67;	0;	20325
27;	5199.9;	19-JAN-2006	01:03:52;	Bright;	;	54.5;	98;	13Zet Oph	;	2.57;	30000;occ;	109;	0;	20325

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1;	5468.4;	19-JAN-2006	01:08:20;	Dark	;	53.0;	16;	21Alp Sco	;	1.02;	3000;occ;	106;	0;	20325
2;	5791.2;	19-JAN-2006	01:13:43;	Dark	;	39.0;	131;	Gam Lup	;	2.80;	26000;occ;	78;	0;	20325
3;	6136.8;	19-JAN-2006	01:19:28;	Dark	;	53.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	106;	0;	20325
4;	6328.7;	19-JAN-2006	01:22:40;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	20325
5;	6669.0;	19-JAN-2006	01:28:21;	Dark	;	37.5;	29;	Bet Car	;	1.67;	10200;occ;	75;	0;	20325
6;	6791.0;	19-JAN-2006	01:30:23;	Dark	;	42.0;	71;	Iot Car	;	2.25;	7700;occ;	84;	0;	20325
7;	6901.7;	19-JAN-2006	01:32:13;	Dark	;	40.5;	46;	Del Vel	;	1.95;	10600;occ;	81;	0;	20325
8;	7068.5;	19-JAN-2006	01:35:00;	Dark	;	42.5;	2;	Alp Car	;	-0.74;	7000;occ;	85;	0;	20325
9;	7520.7;	19-JAN-2006	01:42:32;	Dark	;	38.0;	179;	240mi2CMA	;	3.03;	24000;occ;	76;	0;	20325
10;	7652.4;	19-JAN-2006	01:44:44;	Dark	;	50.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	101;	0;	20325
11;	7803.4;	19-JAN-2006	01:47:15;	Dark	;	41.0;	56;	53Kap Ori	;	2.07;	30000;occ;	82;	0;	20325
12;	7874.4;	19-JAN-2006	01:48:26;	Dark	;	38.0;	125;	44Iot Ori	;	2.77;	30000;occ;	76;	0;	20325
13;	7951.9;	19-JAN-2006	01:49:44;	Dark	;	40.5;	30;	46Eps Ori	;	1.69;	30000;occ;	81;	0;	20325
14;	8081.8;	19-JAN-2006	01:51:53;	Dark	;	52.0;	14;	58Alp Ori	;	0.87;	3000;occ;	104;	0;	20325
15;	8222.9;	19-JAN-2006	01:54:15;	Dark	;	53.0;	44;	24Gam Gem	;	1.93;	11000;occ;	106;	0;	20325
16;	8327.3;	19-JAN-2006	01:55:59;	Bright;	;	40.5;	151;	13Mu Gem	;	2.89;	3000;occ;	81;	0;	20325
17;	8450.0;	19-JAN-2006	01:58:02;	Bright;	;	36.0;	28;	12Bet Tau	;	1.65;	15200;occ;	72;	0;	20325
18;	8577.9;	19-JAN-2006	02:00:10;	Bright;	;	35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	20325
19;	8708.1;	19-JAN-2006	02:02:20;	Bright;	;	36.5;	42;	34Bet Aur	;	1.90;	10200;occ;	73;	0;	20325
20;	9461.9;	19-JAN-2006	02:14:53;	Bright;	;	34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	20325

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1;	4081.4;	19-JAN-2006	02:25:49;	Bright;	;	36.0;	130;	23Bet Dra	;	2.80;	5800;occ;	72;	0;	20326
2;	4274.8;	19-JAN-2006	02:29:02;	Bright;	;	33.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	67;	0;	20326
3;	4752.5;	19-JAN-2006	02:37:00;	Bright;	;	34.0;	59;	55Alp Oph	;	2.08;	8900;occ;	68;	0;	20326
4;	4879.2;	19-JAN-2006	02:39:07;	Bright;	;	33.5;	126;	60Bet Oph	;	2.77;	4250;occ;	67;	0;	20326
5;	5200.5;	19-JAN-2006	02:44:28;	Bright;	;	37.0;	98;	13Zet Oph	;	2.57;	30000;occ;	74;	0;	20326
6;	5468.9;	19-JAN-2006	02:48:56;	Dark	;	47.0;	16;	21Alp Sco	;	1.02;	3000;occ;	94;	0;	20326
7;	5564.5;	19-JAN-2006	02:50:32;	Dark	;	44.5;	75;	26Eps Sco	;	2.29;	4250;occ;	89;	0;	20326
8;	5791.9;	19-JAN-2006	02:54:19;	Dark	;	39.5;	131;	Gam Lup	;	2.80;	26000;occ;	79;	0;	20326
9;	6137.3;	19-JAN-2006	03:00:05;	Dark	;	43.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	86;	0;	20326
10;	6329.0;	19-JAN-2006	03:03:17;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	20326
11;	6669.4;	19-JAN-2006	03:08:57;	Dark	;	37.0;	29;	Bet Car	;	1.67;	10200;occ;	74;	0;	20326
12;	6791.5;	19-JAN-2006	03:10:59;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	20326
13;	6902.2;	19-JAN-2006	03:12:50;	Dark	;	39.0;	46;	Del Vel	;	1.95;	10600;occ;	78;	0;	20326
14;	7068.7;	19-JAN-2006	03:15:36;	Dark	;	41.5;	2;	Alp Car	;	-0.74;	7000;occ;	83;	0;	20326
15;	7436.9;	19-JAN-2006	03:21:44;	Dark	;	42.5;	23;	21Eps CMA	;	1.50;	26000;occ;	85;	0;	20326
16;	7521.0;	19-JAN-2006	03:23:09;	Dark	;	38.5;	179;	240mi2CMA	;	3.03;	24000;occ;	77;	0;	20326
17;	7652.6;	19-JAN-2006	03:25:20;	Dark	;	48.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	96;	0;	20326
18;	7803.7;	19-JAN-2006	03:27:51;	Dark	;	40.0;	56;	53Kap Ori	;	2.07;	30000;occ;	80;	0;	20326
19;	7874.9;	19-JAN-2006	03:29:02;	Dark	;	38.5;	125;	44Iot Ori	;	2.77;	30000;occ;	77;	0;	20326
20;	7952.2;	19-JAN-2006	03:30:20;	Dark	;	39.5;	30;	46Eps Ori	;	1.69;	30000;occ;	79;	0;	20326
21;	8082.1;	19-JAN-2006	03:32:30;	Dark	;	52.0;	14;	58Alp Ori	;	0.87;	3000;occ;	104;	0;	20326
22;	8223.0;	19-JAN-2006	03:34:51;	Dark	;	46.0;	44;	24Gam Gem	;	1.93;	11000;occ;	92;	0;	20326

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4;	2049.1;	20-JAN-2006	11:23:55;	Dark ;	52.0;	14;	58Alp Ori	; 0.87;	3000;occ;	104;	0;	20346
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22;	6799.7;	20-JAN-2006	12:43:06;	Dark ;	38.5;	71;	Iot Car	; 2.25;	7700;occ;	77;	0;	20346
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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25;	7196.8;	20-JAN-2006	12:49:43;	Dark ;	39.5;	70;	Zet Pup	; 2.25;	39000;occ;	79;	0;	20346
26;	7290.6;	20-JAN-2006	12:51:17;	Dark ;	46.0;	117;	Pi Pup	; 2.71;	3800;occ;	92;	0;	20346
27;	7440.8;	20-JAN-2006	12:53:47;	Dark ;	43.5;	23;	21Eps CMa	; 1.50;	26000;occ;	87;	0;	20346
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26; 1506.1; 27-JAN-2006 12:35:22; Dark ; 36.0; 179; 240mi2CMa ; 3.03; 24000;occ; 72; 0;20447  
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 20; 337.9; 30-JAN-2006 12:21:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20490  
 21; 459.3; 30-JAN-2006 12:23:41; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;20490  
 22; 677.5; 30-JAN-2006 12:27:19; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;20490  
 23; 817.1; 30-JAN-2006 12:29:38; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;20490  
 24; 922.8; 30-JAN-2006 12:31:24; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;20490  
 25; 1075.2; 30-JAN-2006 12:33:56; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;20490  
 26; 1200.5; 30-JAN-2006 12:36:02; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;20490  
 27; 1284.3; 30-JAN-2006 12:37:26; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;20490  
 28; 1430.8; 30-JAN-2006 12:39:52; Dark ; 39.5; 23; 21Eps CMA ; 1.50; 26000;occ; 79; 0;20490  
 29; 1513.3; 30-JAN-2006 12:41:15; Dark ; 35.0; 179; 240mi2CMA ; 3.03; 24000;occ; 70; 0;20490  
 30; 1642.6; 30-JAN-2006 12:43:24; Dark ; 1.5; 1; 9Alp CMA ;-1.44; 11000;occ; 3; 0;20490

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 5;-3729.7; 30-JAN-2006 12:54:27; Bright; 36.5; 151; 13Mu Gem ; 2.89; 3000;occ; 73; 0;20490  
 6;-3472.5; 30-JAN-2006 12:58:45; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;20490  
 7;-3346.9; 30-JAN-2006 13:00:50; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;20490  
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 9;-1936.5; 30-JAN-2006 13:24:21; Bright; 37.5; 69; 33Gam Dra ; 2.23; 3800;occ; 75; 0;20490  
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 11;-1244.1; 30-JAN-2006 13:35:53; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;20490  
 12;-1116.5; 30-JAN-2006 13:38:01; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;20490  
 13; -731.6; 30-JAN-2006 13:44:26; Dark ; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;20490  
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 17; -128.4; 30-JAN-2006 13:54:29; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;20490  
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 19; 184.2; 30-JAN-2006 13:59:41; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;20491  
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 21; 459.8; 30-JAN-2006 14:04:17; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;20491  
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 23; 817.4; 30-JAN-2006 14:10:15; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;20491  
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 26; 1200.8; 30-JAN-2006 14:16:38; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;20491  
 27; 1284.6; 30-JAN-2006 14:18:02; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;20491  
 28; 1431.0; 30-JAN-2006 14:20:28; Dark ; 25.0; 23; 21Eps CMA ; 1.50; 26000;occ; 50; 0;20491

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 13;-1243.8; 30-JAN-2006 15:16:29; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;20491  
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 21; 184.7; 30-JAN-2006 15:40:18; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;20492  
 22; 338.5; 30-JAN-2006 15:42:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20492  
 23; 460.4; 30-JAN-2006 15:44:53; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;20492  
 24; 678.1; 30-JAN-2006 15:48:31; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;20492  
 25; 817.8; 30-JAN-2006 15:50:51; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;20492  
 26; 923.3; 30-JAN-2006 15:52:36; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;20492  
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 28; 1201.0; 30-JAN-2006 15:57:14; Dark ; 35.5; 70; Zet Pup ; 2.25; 39000;occ; 71; 0;20492  
 29; 1284.7; 30-JAN-2006 15:58:38; Dark ; 30.5; 117; Pi Pup ; 2.71; 3800;occ; 61; 0;20492

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 12;-1936.6; 30-JAN-2006 16:45:33; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;20492  
 13;-1733.5; 30-JAN-2006 16:48:56; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;20492  
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 22; 185.1; 30-JAN-2006 17:20:54; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;20493  
 23; 338.7; 30-JAN-2006 17:23:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20493  
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 27; 923.5; 30-JAN-2006 17:33:13; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;20493  
 28; 1075.9; 30-JAN-2006 17:35:45; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;20493

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 11; 2689.5; 30-JAN-2006 18:02:39; Bright; 34.0; 42; 34Bet Aur ; 1.90; 10200;occ; 68; 0;20493  
 12; 3427.9; 30-JAN-2006 18:14:57; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;20493  
 13; 4099.5; 30-JAN-2006 18:26:09; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;20493  
 14; 4302.6; 30-JAN-2006 18:29:32; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;20493  
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 22; 6141.1; 30-JAN-2006 19:00:10; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;20493  
 23; 6221.6; 30-JAN-2006 19:01:31; Dark ; 51.0; 4; Alp1Cen ;-0.01; 5800;occ; 102; 0;20493  
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 27; 6854.3; 30-JAN-2006 19:12:03; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;20493  
 28; 6959.9; 30-JAN-2006 19:13:49; Dark ; 37.0; 46; Del Vel ; 1.95; 10600;occ; 74; 0;20493

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 27; 678.6; 30-JAN-2006 20:50:20; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;20495  
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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
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