

# GOMOS Daily Report 26-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	28JAN2006 04:32:37

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (26JAN2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (27JAN2006 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)

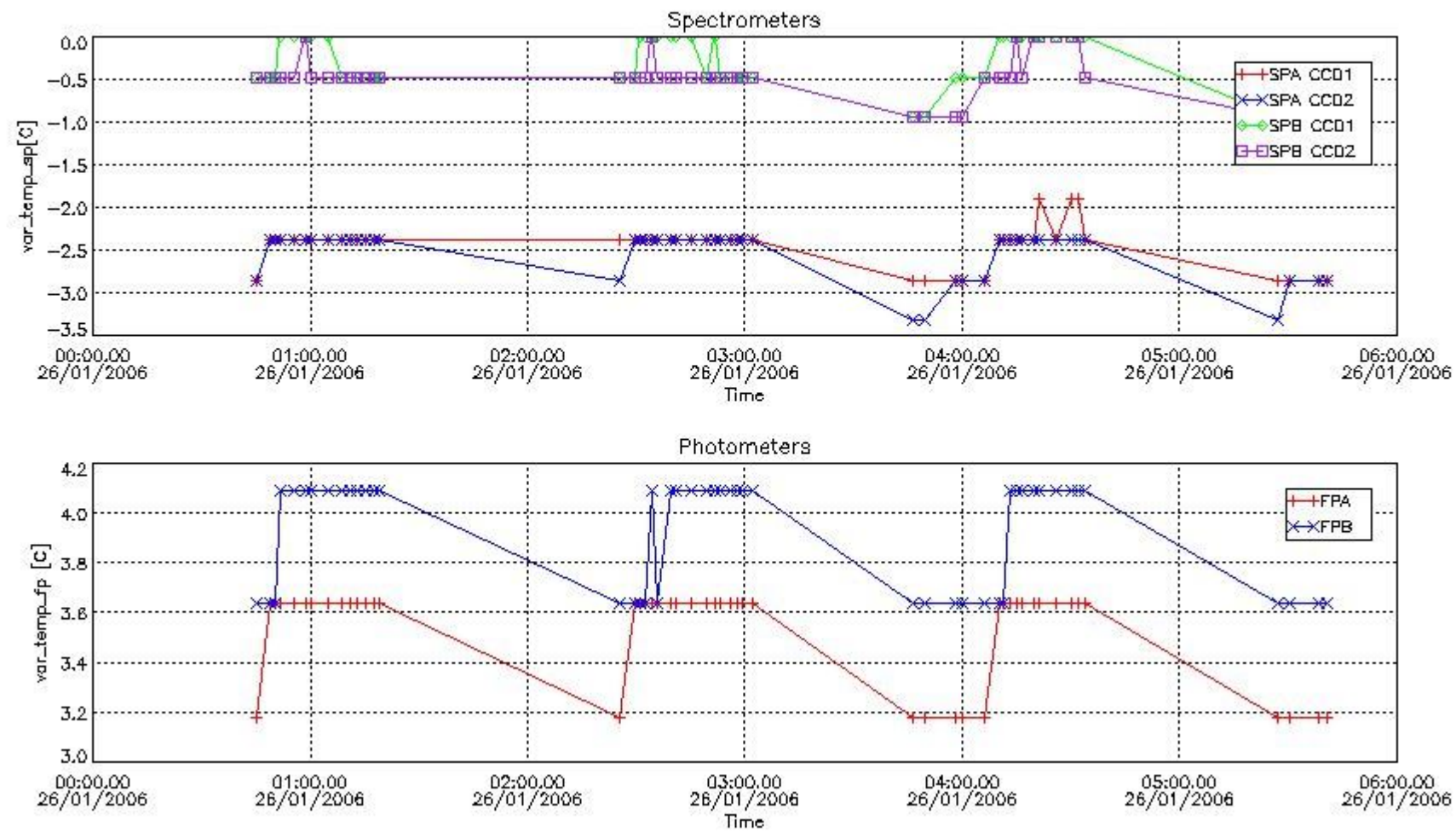
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060126_004501_000000412044_00331_20425_0000.N1	26-JAN-2006 00:45:01	Twilight	40.500	86	35Eta Oph	2.4300	10200.	81	20425	No
2	GOM_TRA_1PNPDE20060126_004904_000000522044_00331_20425_0001.N1	26-JAN-2006 00:49:04	Twilight	51.500	16	21Alp Sco	1.0200	3000.0	103	20425	No
3	GOM_TRA_1PNPDE20060126_005027_000000412044_00331_20425_0002.N1	26-JAN-2006 00:50:27	Twilight	41.000	75	26Eps Sco	2.2910	4250.0	82	20425	No
4	GOM_TRA_1PNPDE20060126_005150_000000412044_00331_20425_0003.N1	26-JAN-2006 00:51:50	Twilight	41.000	40	The Sco	1.8590	7100.0	82	20425	No
5	GOM_TRA_1PNPDE20060126_005519_000000402044_00331_20425_0004.N1	26-JAN-2006 00:55:19	Dark	39.500	141	Bet Ara	2.8400	4600.0	79	20425	No
6	GOM_TRA_1PNPDE20060126_005843_000000382044_00332_20426_0005.N1	26-JAN-2006 00:58:43	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	20426	No
7	GOM_TRA_1PNPDE20060126_010011_000000432044_00332_20426_0006.N1	26-JAN-2006 01:00:11	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	20426	No
8	GOM_TRA_1PNPDE20060126_010446_000000402044_00332_20426_0007.N1	26-JAN-2006 01:04:46	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	20426	No
9	GOM_TRA_1PNPDE20060126_010842_000000382044_00332_20426_0008.N1	26-JAN-2006 01:08:42	Dark	37.500	29	Bet Car	1.6720	10200.	75	20426	No
10	GOM_TRA_1PNPDE20060126_011056_000000432044_00332_20426_0009.N1	26-JAN-2006 01:10:56	Dark	43.000	71	Iot Car	2.2460	7700.0	86	20426	No
11	GOM_TRA_1PNPDE20060126_011244_000000422044_00332_20426_0010.N1	26-JAN-2006 01:12:44	Dark	41.500	46	Del Vel	1.9540	10600.	83	20426	No
12	GOM_TRA_1PNPDE20060126_011519_000000392044_00332_20426_0011.N1	26-JAN-2006 01:15:19	Dark	38.500	34	Gam2Vel	1.7930	23000.	77	20426	No
13	GOM_TRA_1PNPDE20060126_011725_000000402044_00332_20426_0012.N1	26-JAN-2006 01:17:25	Dark	40.000	70	Zet Pup	2.2460	39000.	80	20426	No
14	GOM_TRA_1PNPDE20060126_011853_000000412044_00332_20426_0013.N1	26-JAN-2006 01:18:53	Dark	40.500	117	Pi Pup	2.7060	3800.0	81	20426	No
15	GOM_TRA_1PNPDE20060126_022538_000000412044_00332_20426_0000.N1	26-JAN-2006 02:25:38	Twilight	40.500	86	35Eta Oph	2.4300	10200.	81	20426	No
16	GOM_TRA_1PNPDE20060126_022940_000000422044_00332_20426_0001.N1	26-JAN-2006 02:29:40	Twilight	42.000	16	21Alp Sco	1.0200	3000.0	84	20426	No
17	GOM_TRA_1PNPDE20060126_023054_000000392044_00332_20426_0002.N1	26-JAN-2006 02:30:54	Twilight	38.500	25	35Lam Sco	1.6200	28000.	77	20426	No
18	GOM_TRA_1PNPDE20060126_023226_000000402044_00332_20426_0003.N1	26-JAN-2006 02:32:26	Twilight	40.000	40	The Sco	1.8590	7100.0	80	20426	No
19	GOM_TRA_1PNPDE20060126_023421_000000362044_00332_20426_0004.N1	26-JAN-2006 02:34:21	Twilight	35.500	147	Alp Ara	2.8770	26000.	71	20426	No
20	GOM_TRA_1PNPDE20060126_023555_000000422044_00332_20426_0005.N1	26-JAN-2006 02:35:55	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	20426	No
21	GOM_TRA_1PNPDE20060126_023919_000000362044_00333_20427_0006.N1	26-JAN-2006 02:39:19	Dark	36.000	134	Bet TrA	2.8100	6600.0	72	20427	No
22	GOM_TRA_1PNPDE20060126_024048_000000412044_00333_20427_0007.N1	26-JAN-2006 02:40:48	Dark	40.500	4	Alp1Cen	-0.010000	5800.0	81	20427	No
23	GOM_TRA_1PNPDE20060126_024522_000000402044_00333_20427_0008.N1	26-JAN-2006 02:45:22	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	20427	No
24	GOM_TRA_1PNPDE20060126_024919_000000372044_00333_20427_0009.N1	26-JAN-2006 02:49:19	Dark	36.500	29	Bet Car	1.6720	10200.	73	20427	No
25	GOM_TRA_1PNPDE20060126_025132_000000422044_00333_20427_0010.N1	26-JAN-2006 02:51:32	Dark	41.500	71	Iot Car	2.2460	7700.0	83	20427	No
26	GOM_TRA_1PNPDE20060126_025320_000000382044_00333_20427_0011.N1	26-JAN-2006 02:53:20	Dark	38.000	46	Del Vel	1.9540	10600.	76	20427	No
27	GOM_TRA_1PNPDE20060126_025555_000000412044_00333_20427_0012.N1	26-JAN-2006 02:55:55	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	20427	No
28	GOM_TRA_1PNPDE20060126_025801_000000422044_00333_20427_0013.N1	26-JAN-2006 02:58:01	Dark	41.500	70	Zet Pup	2.2460	39000.	83	20427	No
29	GOM_TRA_1PNPDE20060126_025929_000000432044_00333_20427_0014.N1	26-JAN-2006 02:59:29	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	20427	No
30	GOM_TRA_1PNPDE20060126_030157_000000392044_00333_20427_0015.N1	26-JAN-2006 03:01:57	Twilight	39.000	23	21Eps CMa	1.5020	26000.	78	20427	No
31	GOM_TRA_1PNPDE20060126_034624_000000362044_00333_20427_0000.N1	26-JAN-2006 03:46:24	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	20427	No
32	GOM_TRA_1PNPDE20060126_034950_000000362044_00333_20427_0001.N1	26-JAN-2006 03:49:50	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	20427	No
33	GOM_TRA_1PNPDE20060126_035752_000000362044_00333_20427_0002.N1	26-JAN-2006 03:57:52	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	20427	No
34	GOM_TRA_1PNPDE20060126_035959_000000352044_00333_20427_0003.N1	26-JAN-2006 03:59:59	Bright	34.500	126	60Bet Oph	2.7700	4250.0	69	20427	No
35	GOM_TRA_1PNPDE20060126_040614_000000422044_00333_20427_0004.N1	26-JAN-2006 04:06:14	Twilight	42.000	86	35Eta Oph	2.4300	10200.	84	20427	No
36	GOM_TRA_1PNPDE20060126_041017_000000422044_00333_20427_0005.N1	26-JAN-2006 04:10:17	Twilight	42.000	16	21Alp Sco	1.0200	3000.0	84	20427	No
37	GOM_TRA_1PNPDE20060126_041130_000000412044_00333_20427_0006.N1	26-JAN-2006 04:11:30	Twilight	40.500	25	35Lam Sco	1.6200	28000.	81	20427	No
38	GOM_TRA_1PNPDE20060126_041302_000000412044_00333_20427_0007.N1	26-JAN-2006 04:13:02	Twilight	41.000	40	The Sco	1.8590	7100.0	82	20427	No
39	GOM_TRA_1PNPDE20060126_041457_000000372044_00333_20427_0008.N1	26-JAN-2006 04:14:57	Twilight	37.000	147	Alp Ara	2.8770	26000.	74	20427	No
40	GOM_TRA_1PNPDE20060126_041631_000000392044_00333_20427_0009.N1	26-JAN-2006 04:16:31	Dark	39.000	141	Bet Ara	2.8400	4600.0	78	20427	No
41	GOM_TRA_1PNPDE20060126_041956_000000372044_00334_20428_0010.N1	26-JAN-2006 04:19:56	Dark	36.500	134	Bet TrA	2.8100	6600.0	73	20428	No
42	GOM_TRA_1PNPDE20060126_042124_000000512044_00334_20428_0011.N1	26-JAN-2006 04:21:24	Dark	51.000	4	Alp1Cen	-0.010000	5800.0	102	20428	No
43	GOM_TRA_1PNPDE20060126_042559_000000412044_00334_20428_0012.N1	26-JAN-2006 04:25:59	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	20428	No
44	GOM_TRA_1PNPDE20060126_042955_000000372044_00334_20428_0013.N1	26-JAN-2006 04:29:55	Dark	36.500	29	Bet Car	1.6720	10200.	73	20428	No
45	GOM_TRA_1PNPDE20060126_043208_000000382044_00334_20428_0014.N1	26-JAN-2006 04:32:08	Dark	37.500	71	Iot Car	2.2460	7700.0	75	20428	No
46	GOM_TRA_1PNPDE20060126_043356_000000432044_00334_20428_0015.N1	26-JAN-2006 04:33:56	Dark	42.500	46	Del Vel	1.9540	10600.	85	20428	No

47	GOM_TRA_1PNPDE20060126_052700_000000372044_00334_20428_0000.N1	26-JAN-2006 05:27:00	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	20428	No
48	GOM_TRA_1PNPDE20060126_053026_000000342044_00334_20428_0001.N1	26-JAN-2006 05:30:26	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	20428	No
49	GOM_TRA_1PNPDE20060126_053829_000000362044_00334_20428_0002.N1	26-JAN-2006 05:38:29	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	20428	No
50	GOM_TRA_1PNPDE20060126_054035_000000342044_00334_20428_0003.N1	26-JAN-2006 05:40:35	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	20428	No

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



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

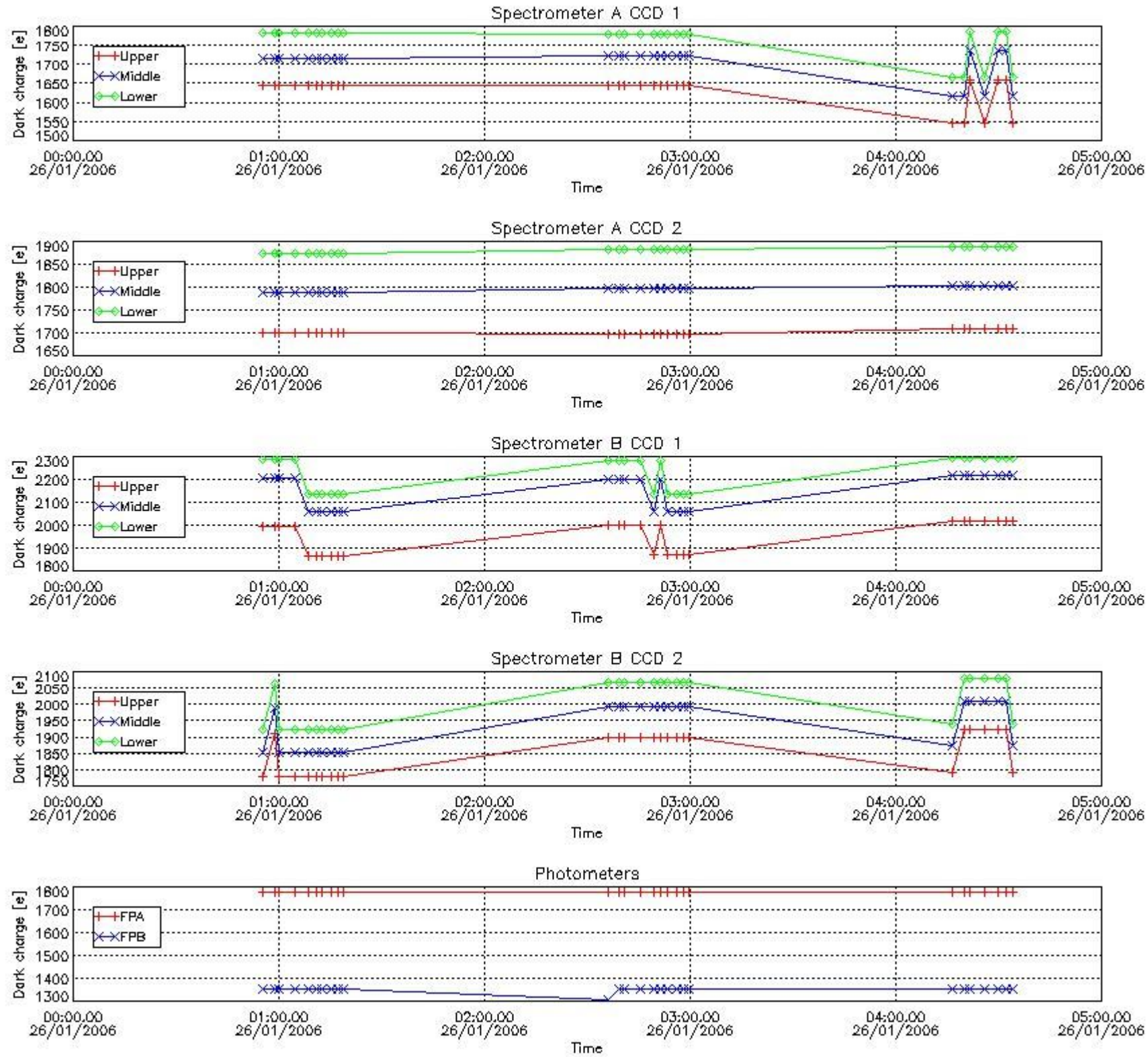
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





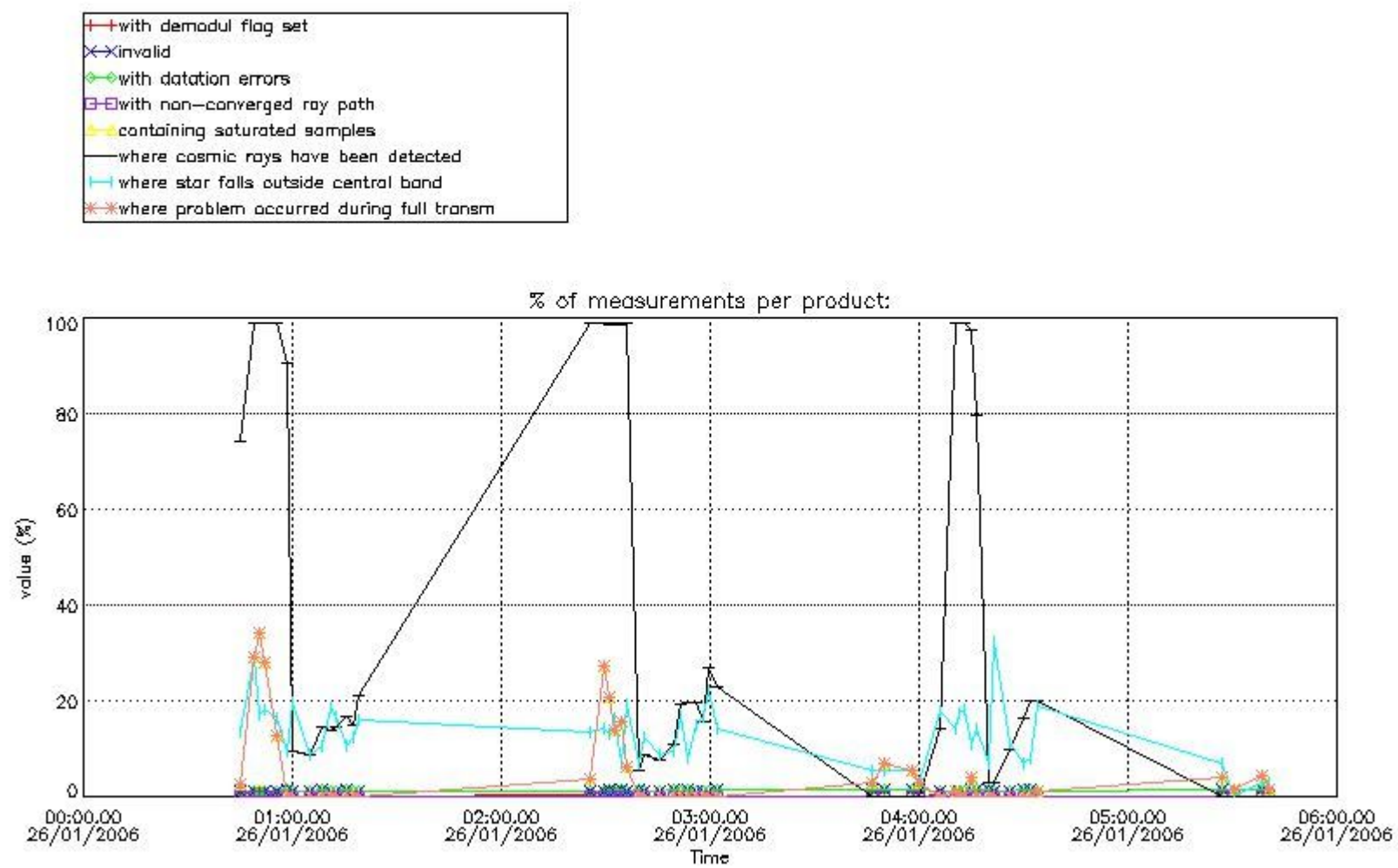
## 5. Demodulation flag and quality information monitoring

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:

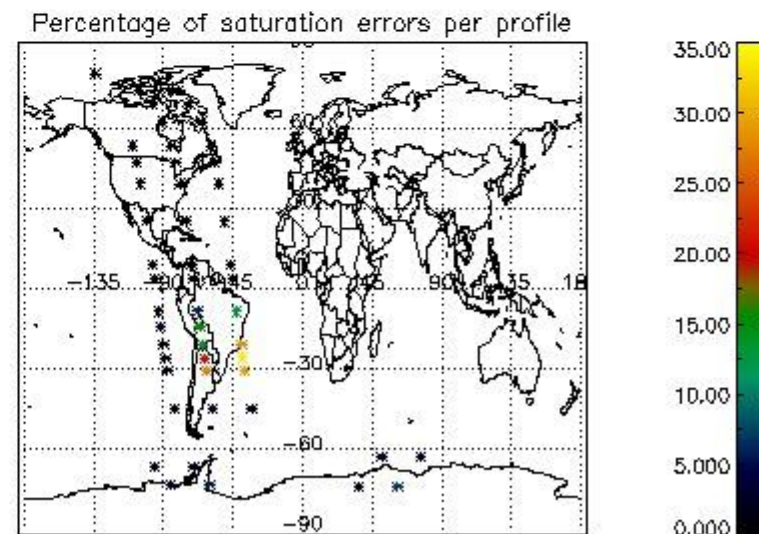
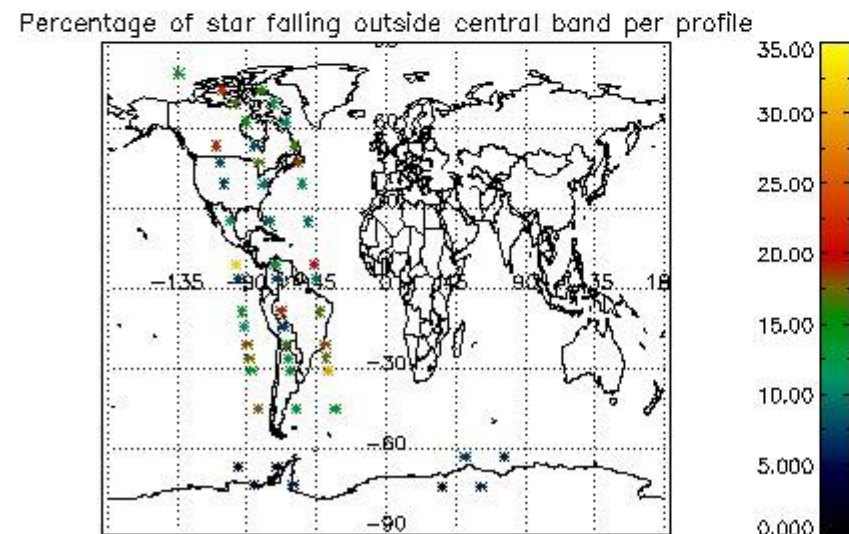
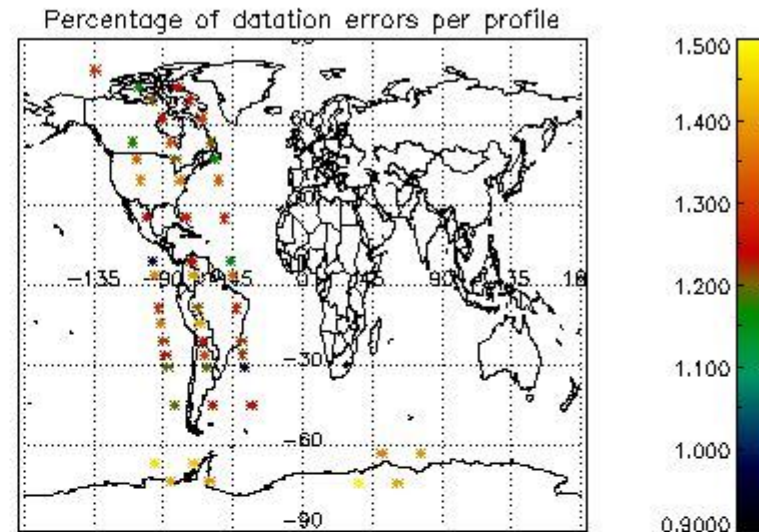
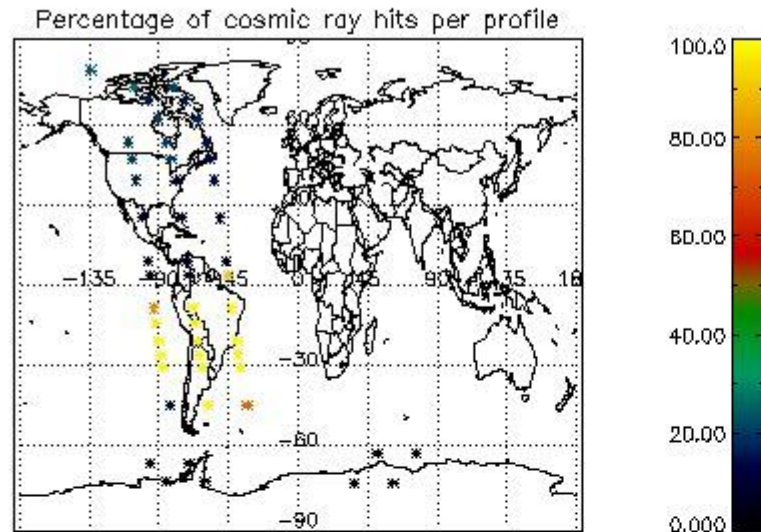
At least one measurement with demodulation flag set:	38.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





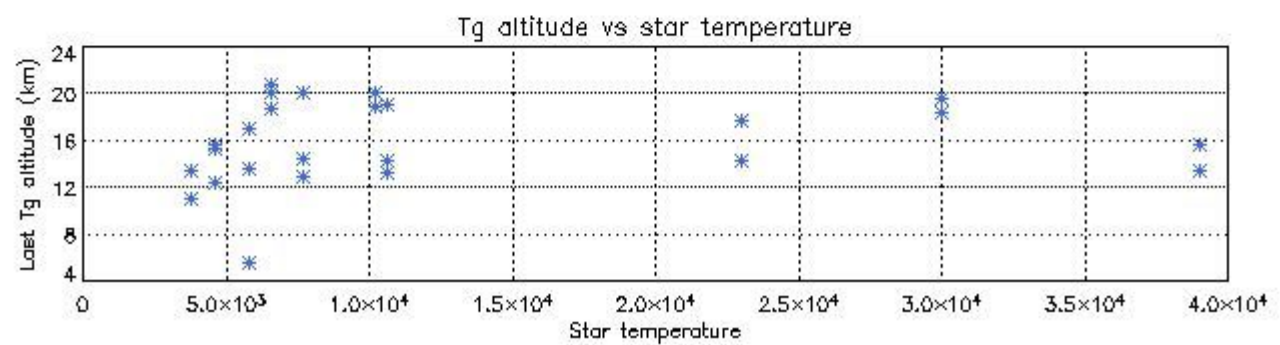
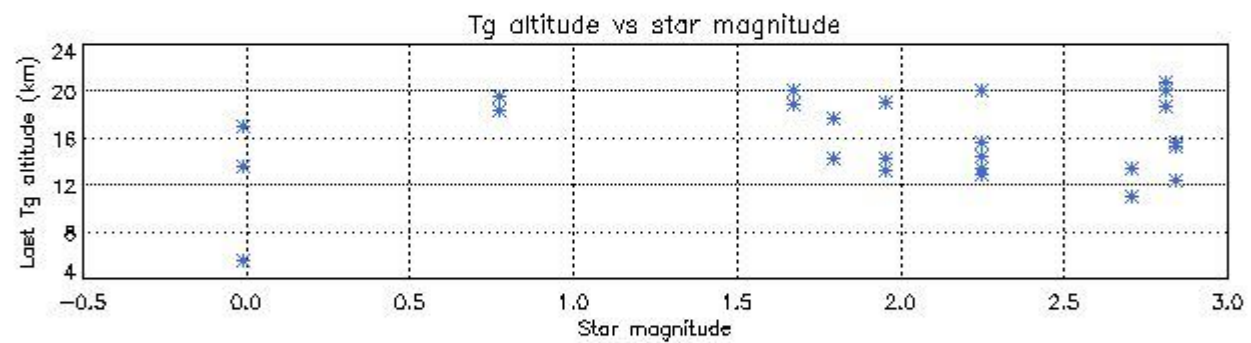
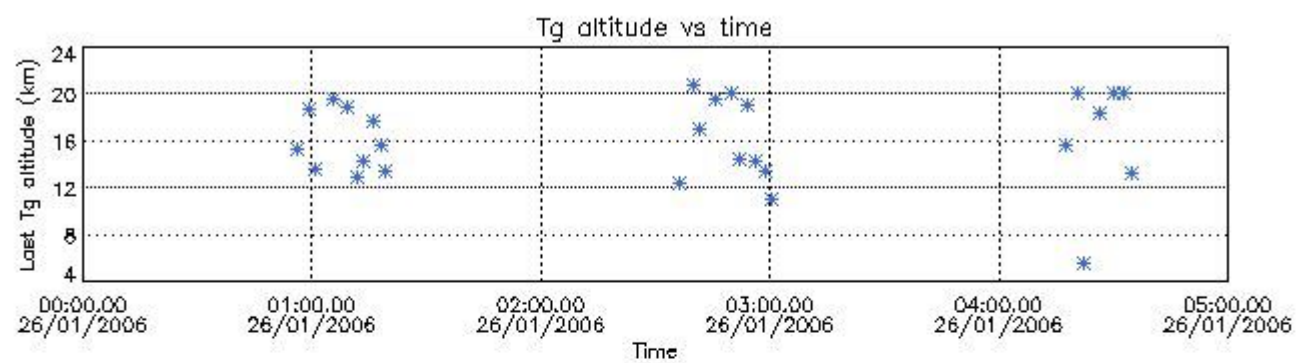
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.112	22.309	14.410
St. deviation:	3.6258	1.6216	2.9251
Maximum:	20.703	24.554	20.338
Minimum:	5.5349	20.244	6.7818
Number of data:	27.000	8.0000	15.000

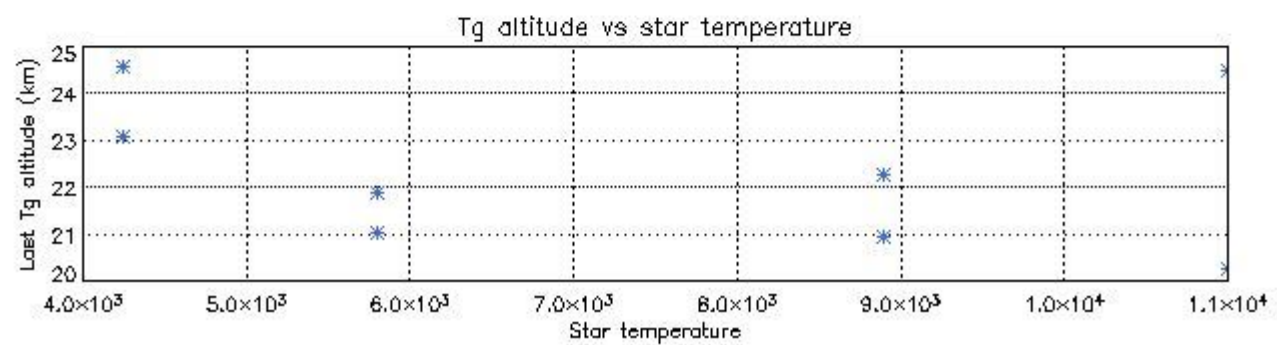
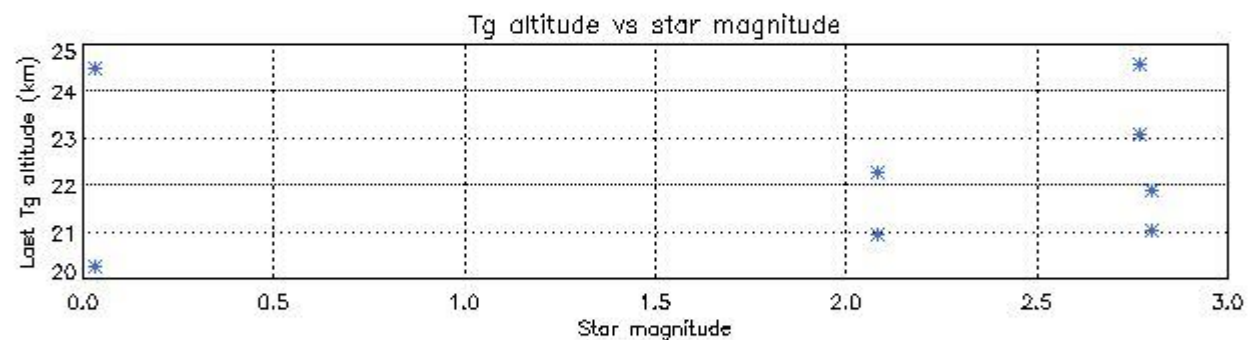
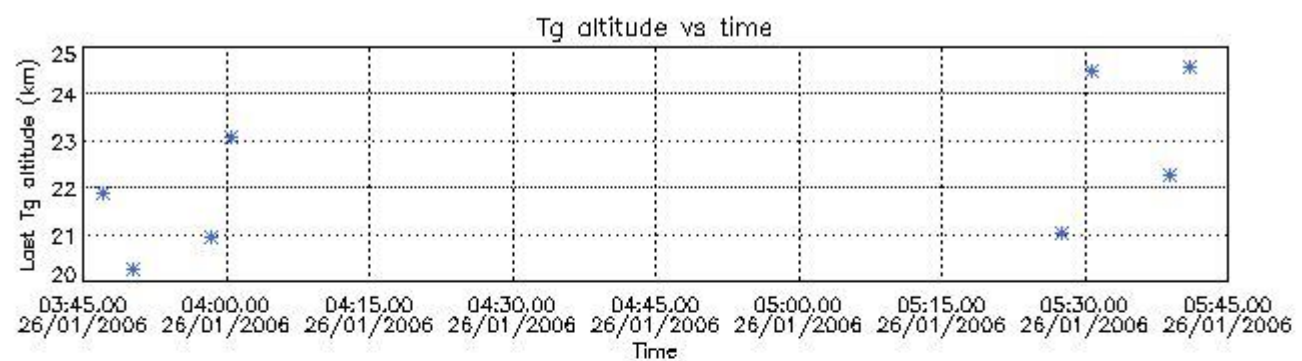
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

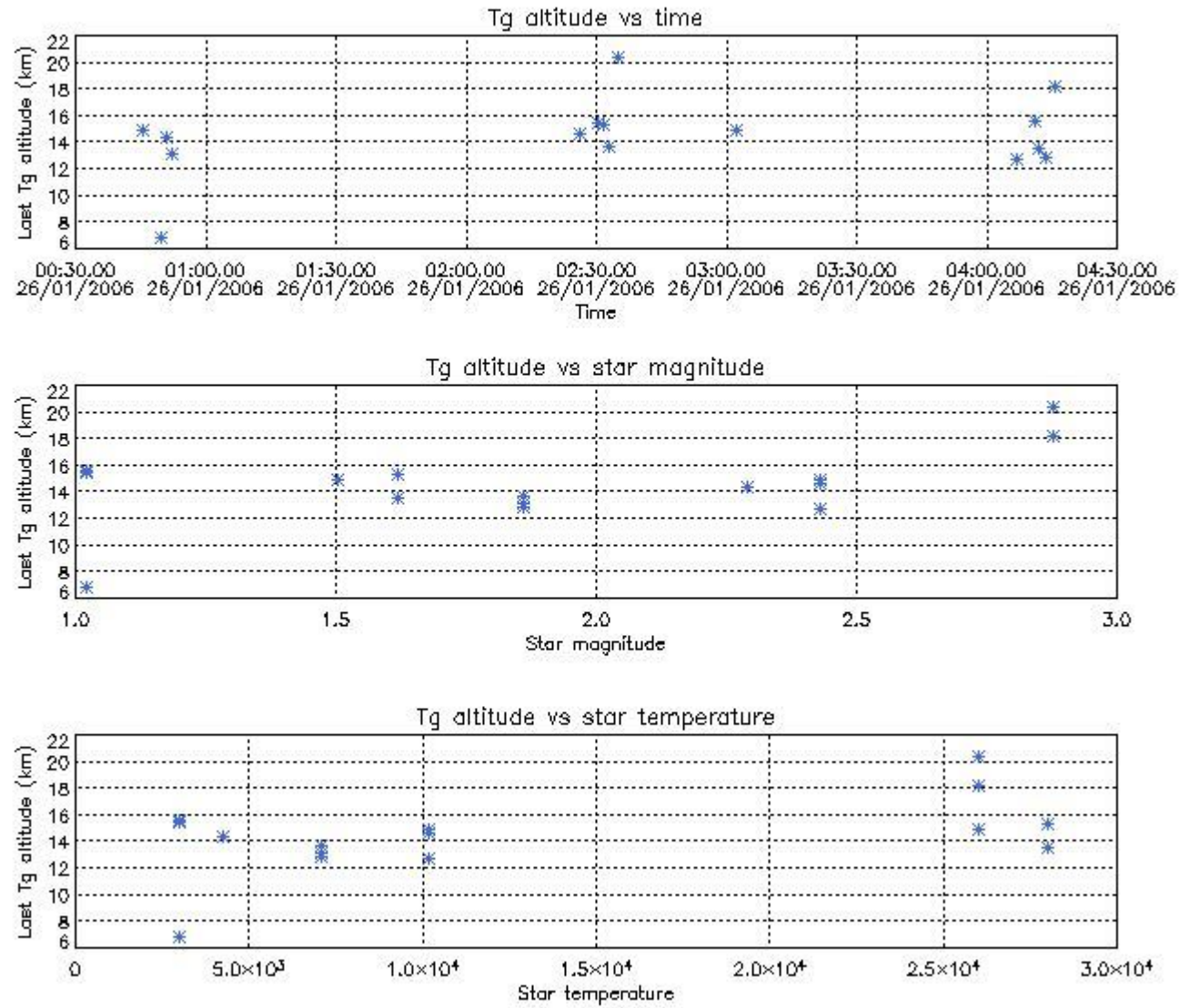
Tangent altitude at which the star is lost



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

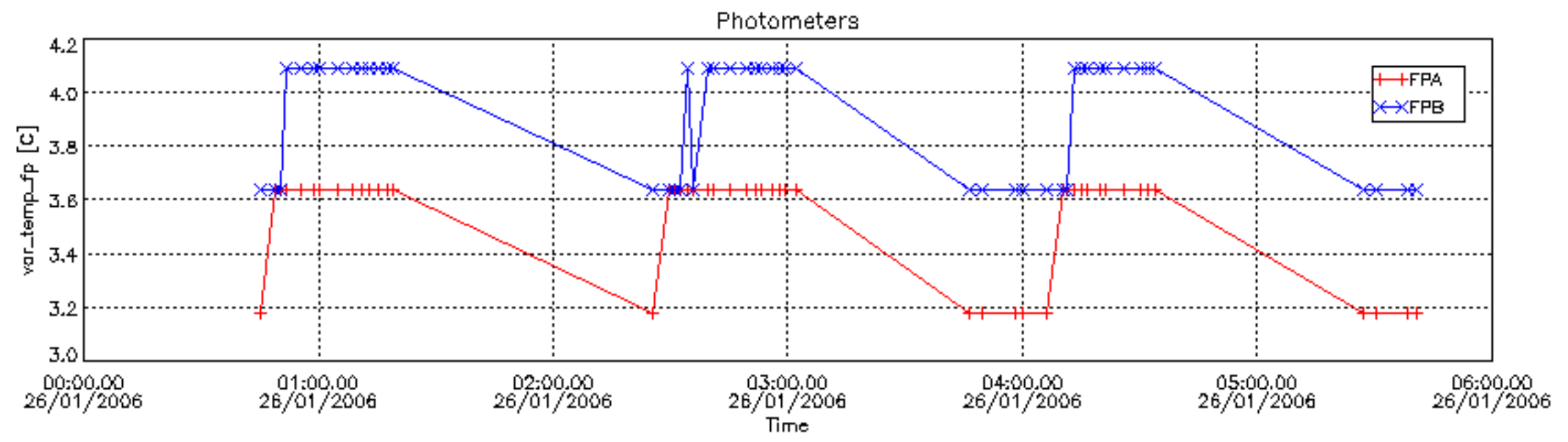
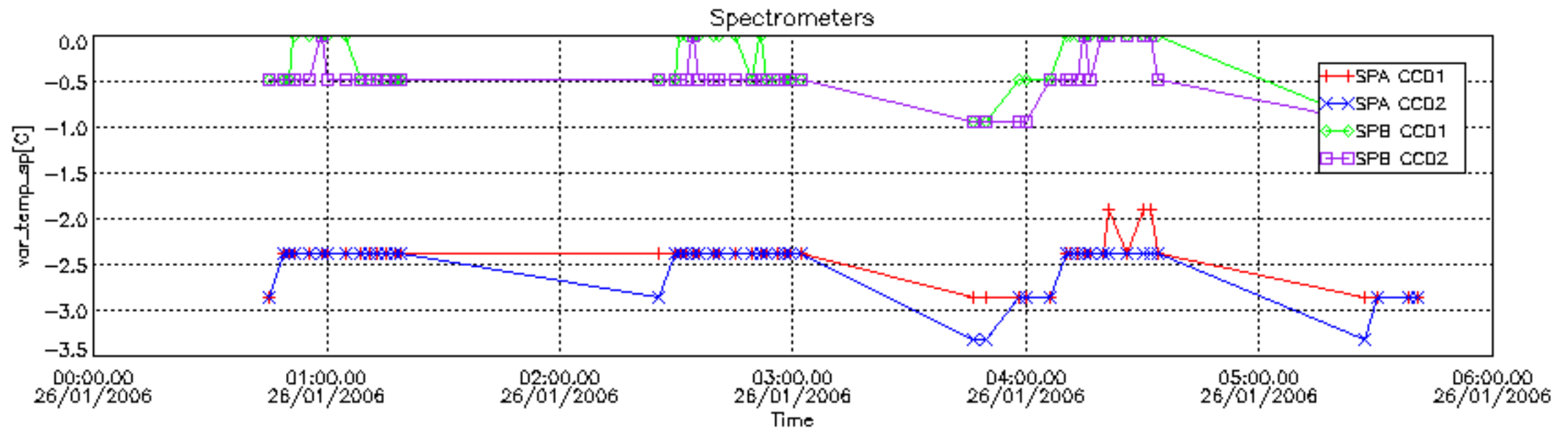
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

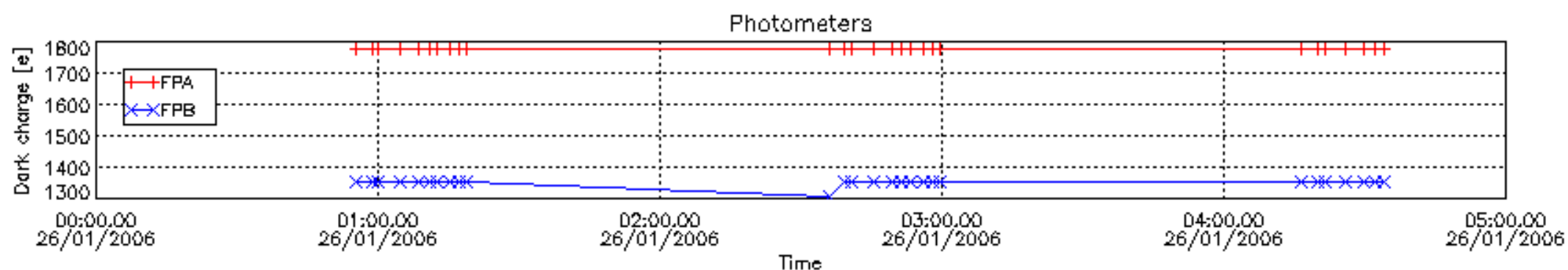
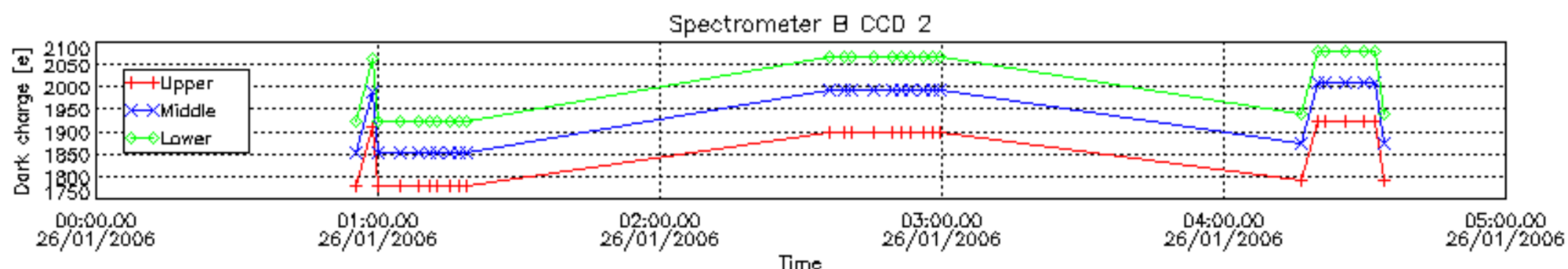
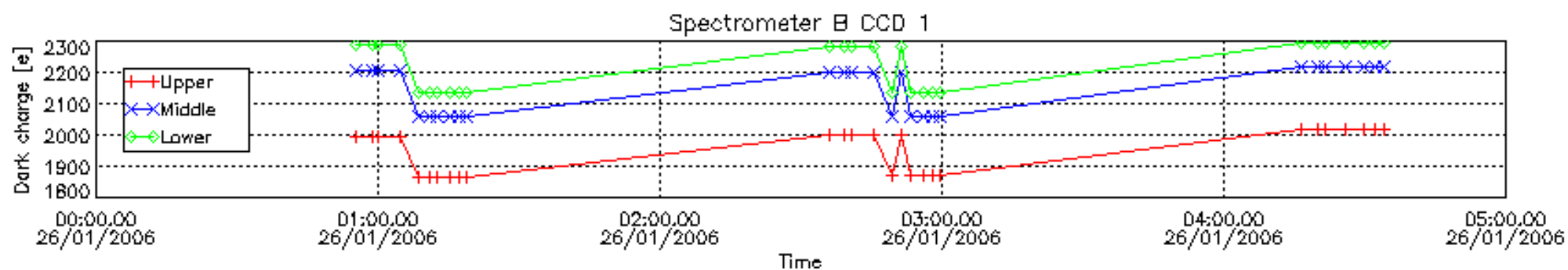
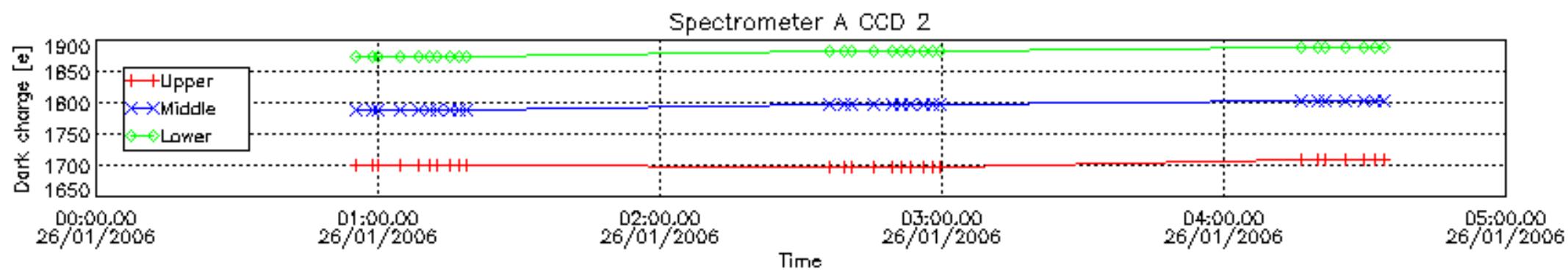
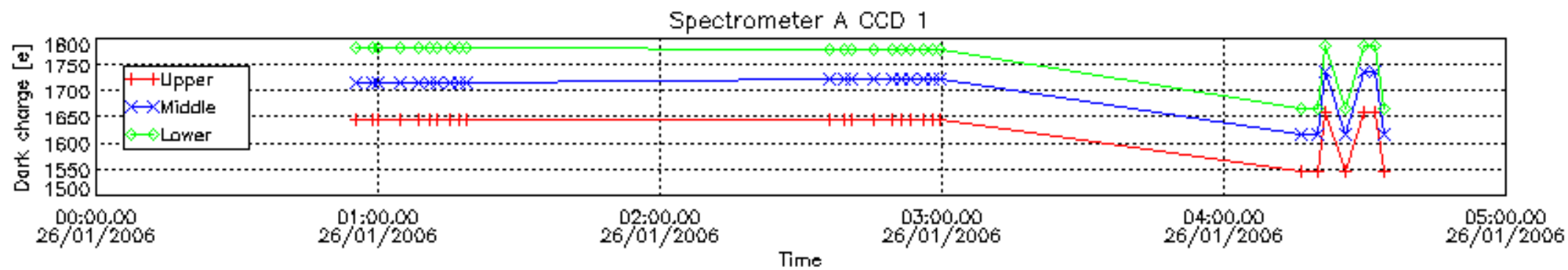
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.7	1446.5	1459.5	1447.2
St. deviation:	4.6463	7.7163	5.6102	7.9847
Maximum:	1490.0	1486.0	1484.0	1481.0
Minimum:	1442.0	1413.0	1437.0	1420.0
Number of data:	23050.	23050.	6550.0	6550.0

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

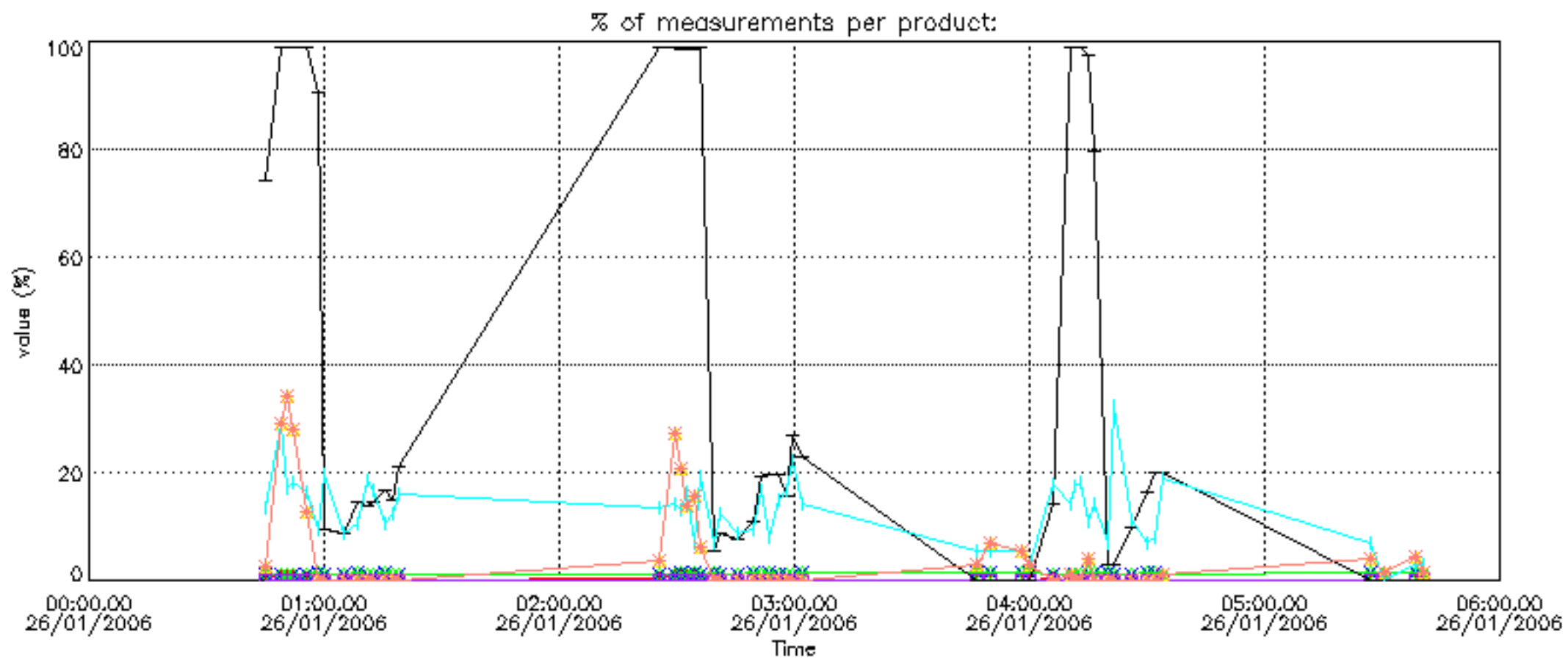
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	26-JAN-2006 00:45:01
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060123_154032_20060121_000000_20100101_000000	1	26-JAN-2006 00:45:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	26-JAN-2006 00:45:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-JAN-2006 00:45:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	26-JAN-2006 00:45:01
ECMWF_FILE	AUX_ECF_AXNECM20060125_060921_20060125_210000_20060126_090000	1	26-JAN-2006 00:45:01
ECMWF_FILE	AUX_ECF_AXNECM20060125_192918_20060126_030000_20060126_150000	31	26-JAN-2006 03:46:24
ECMWF_FILE	AUX_ECA_AXNECM20060126_065925_20060125_210000_20060126_090000	47	26-JAN-2006 05:27:00
OPTIONAL_ECMWF_FILE	NOT USED	1	26-JAN-2006 00:45:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060125_230154_000057382044_00330_20424_0151.N1	1	26-JAN-2006 00:45:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060126_004251_000054192044_00331_20425_0156.N1	15	26-JAN-2006 02:25:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060126_021829_000041442044_00332_20426_0157.N1	31	26-JAN-2006 03:46:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060126_033252_000060572044_00333_20427_0158.N1	47	26-JAN-2006 05:27:00

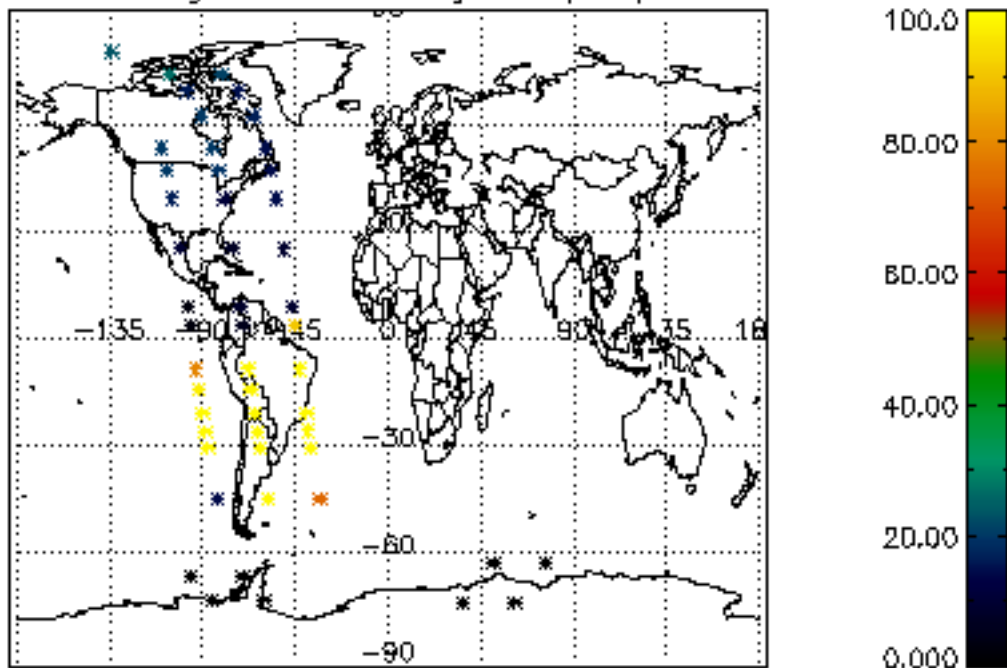




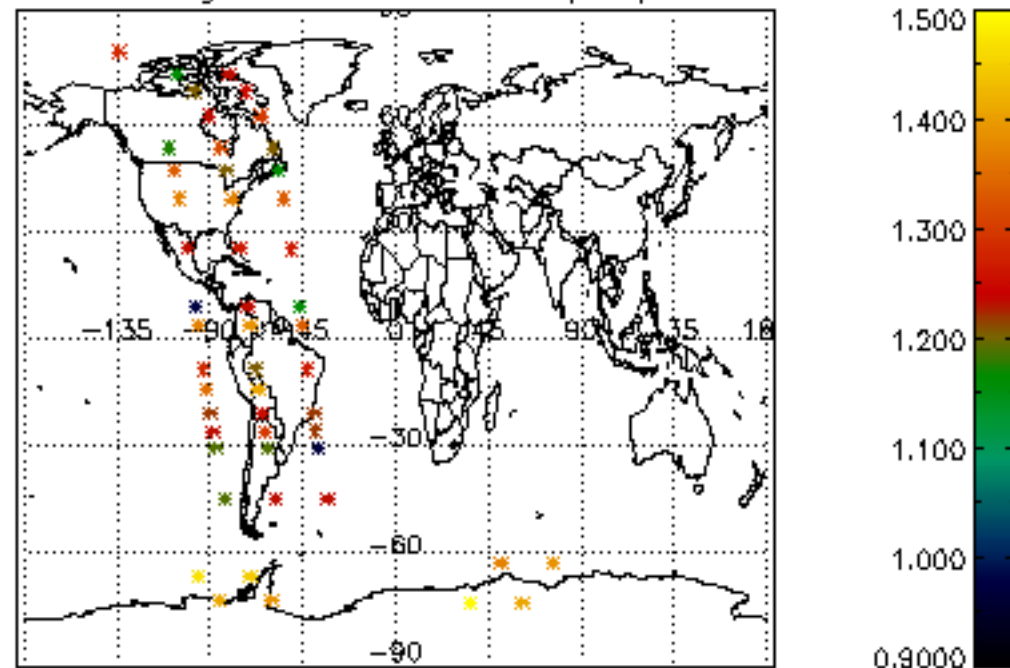




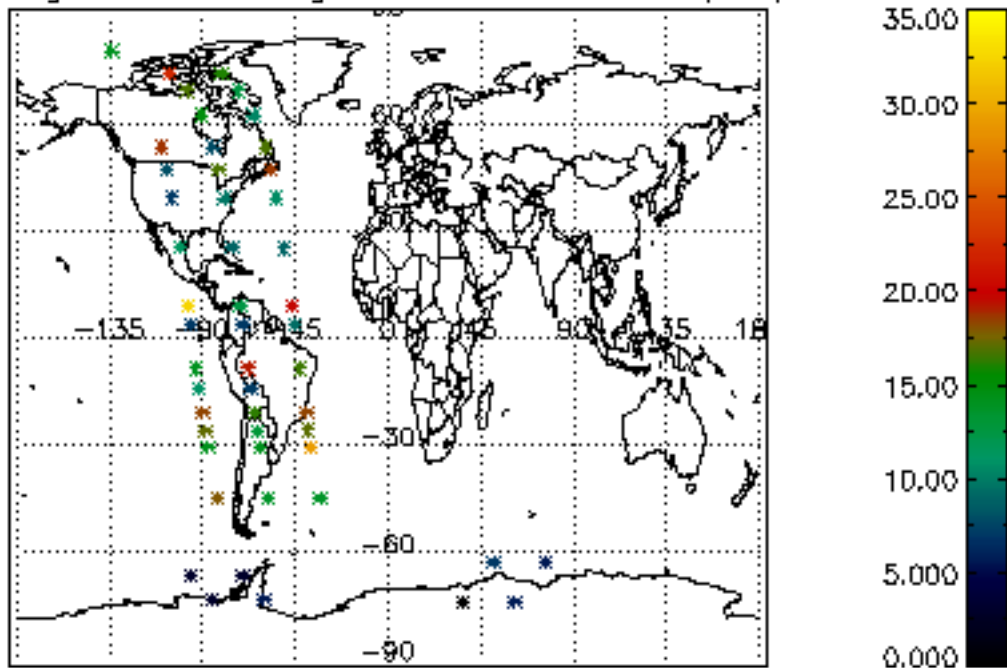
Percentage of cosmic ray hits per profile



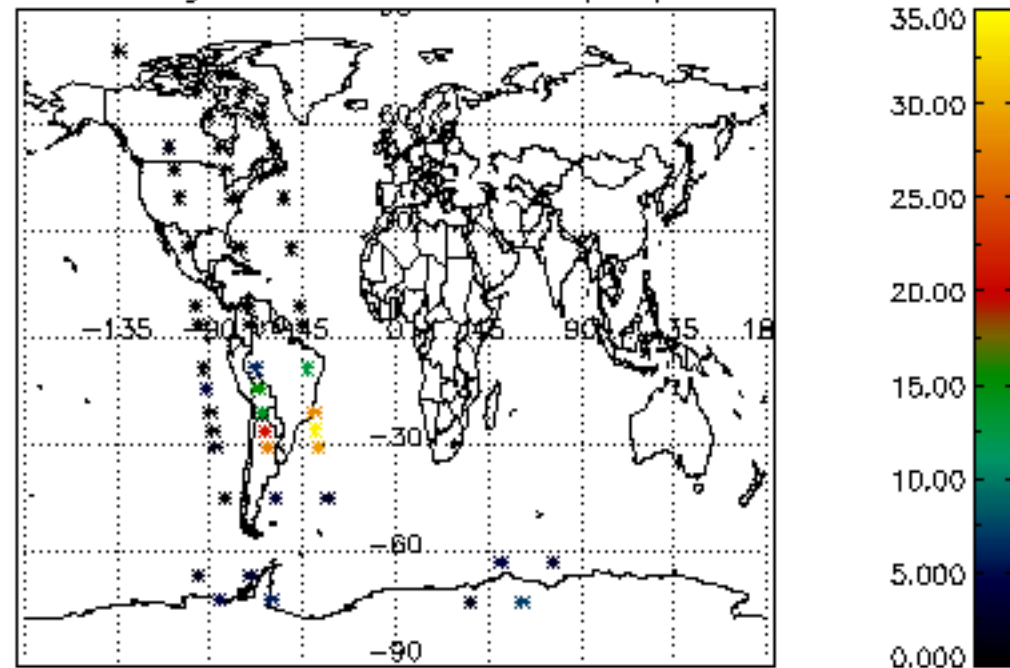
Percentage of datation errors per profile



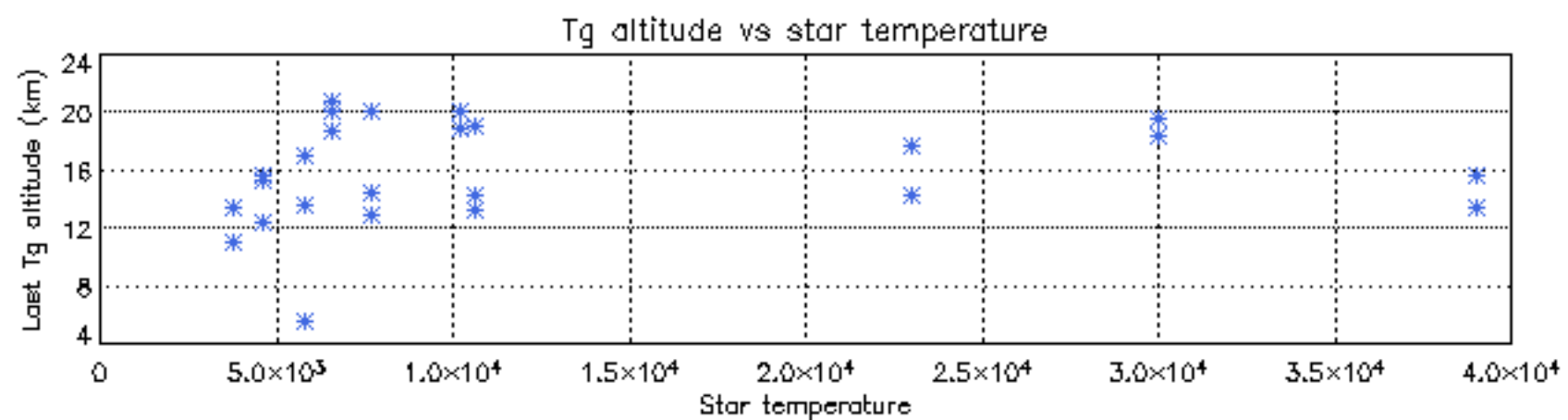
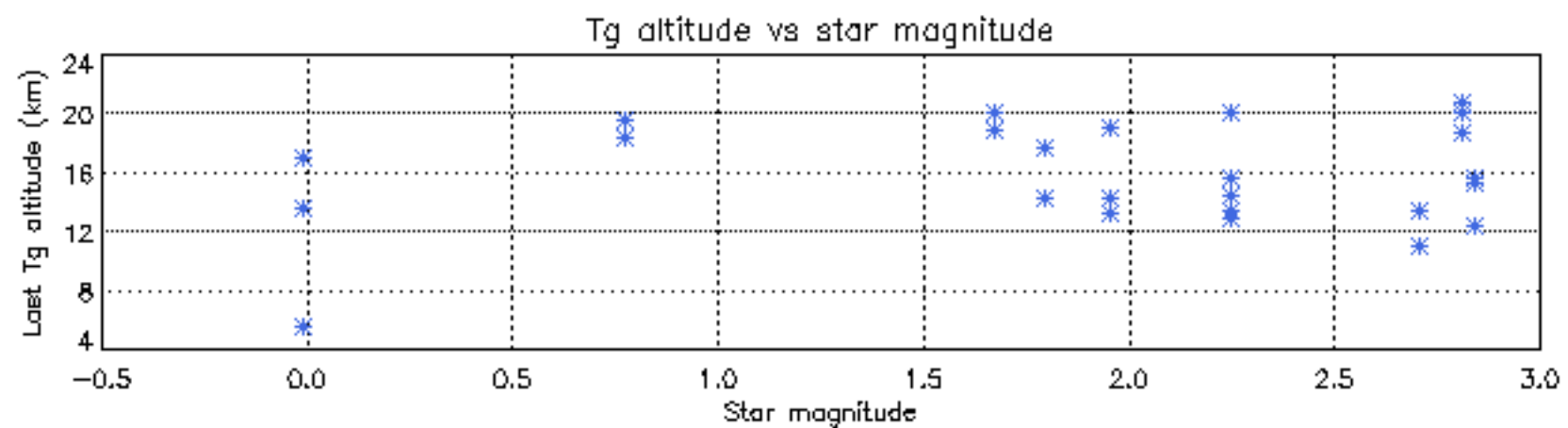
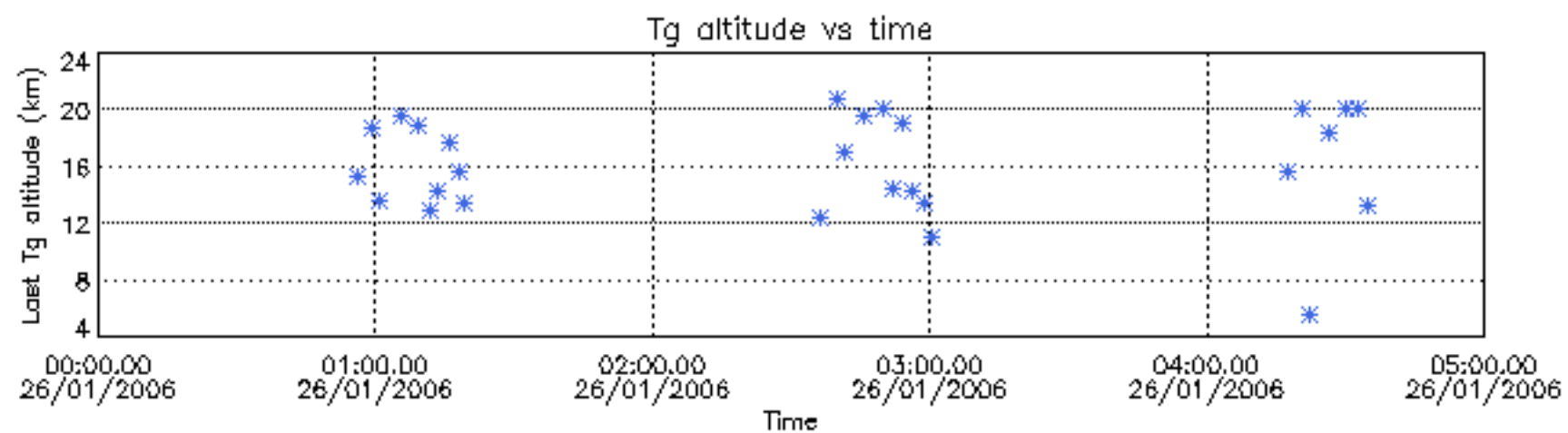
Percentage of star falling outside central band per profile



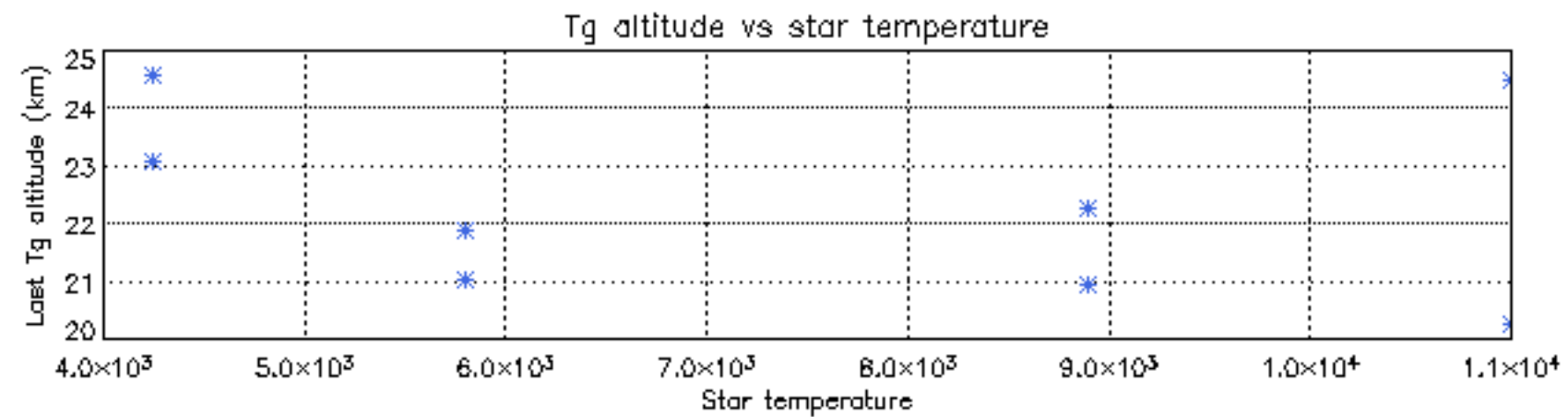
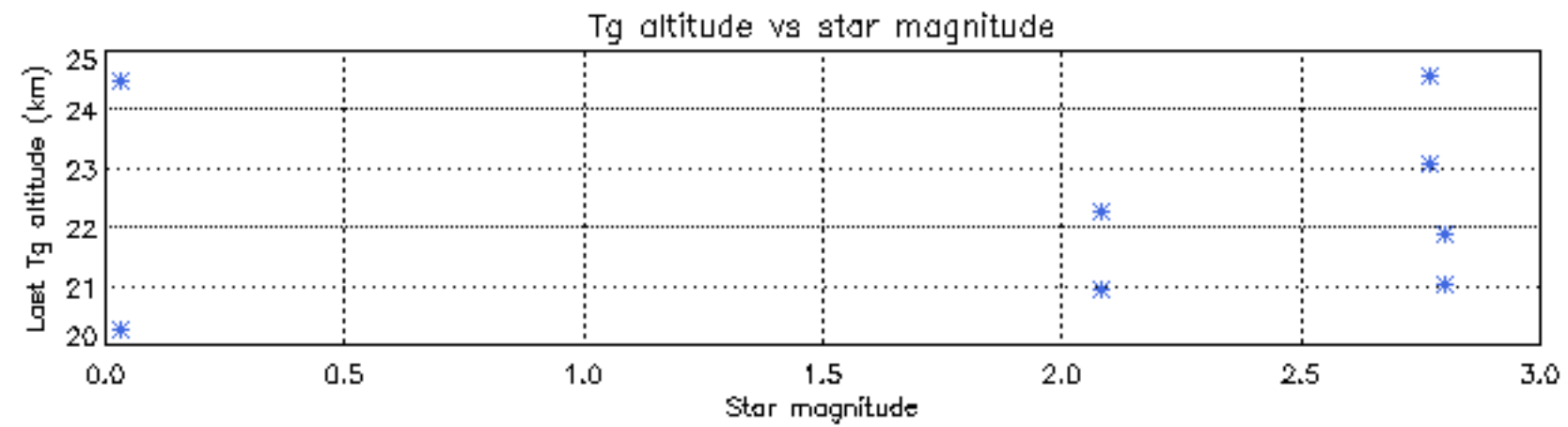
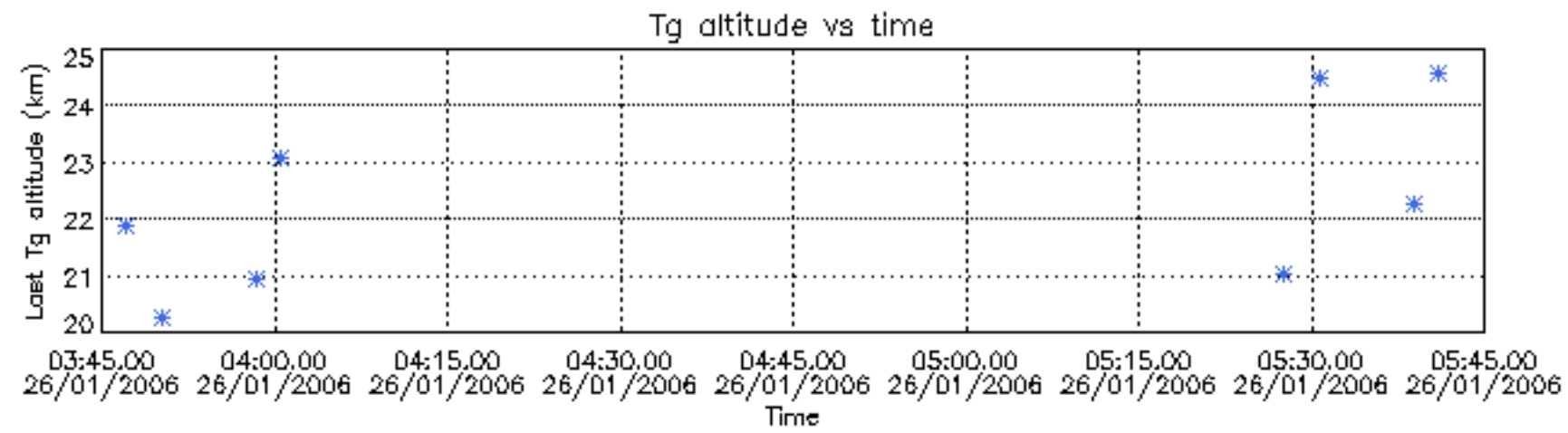
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

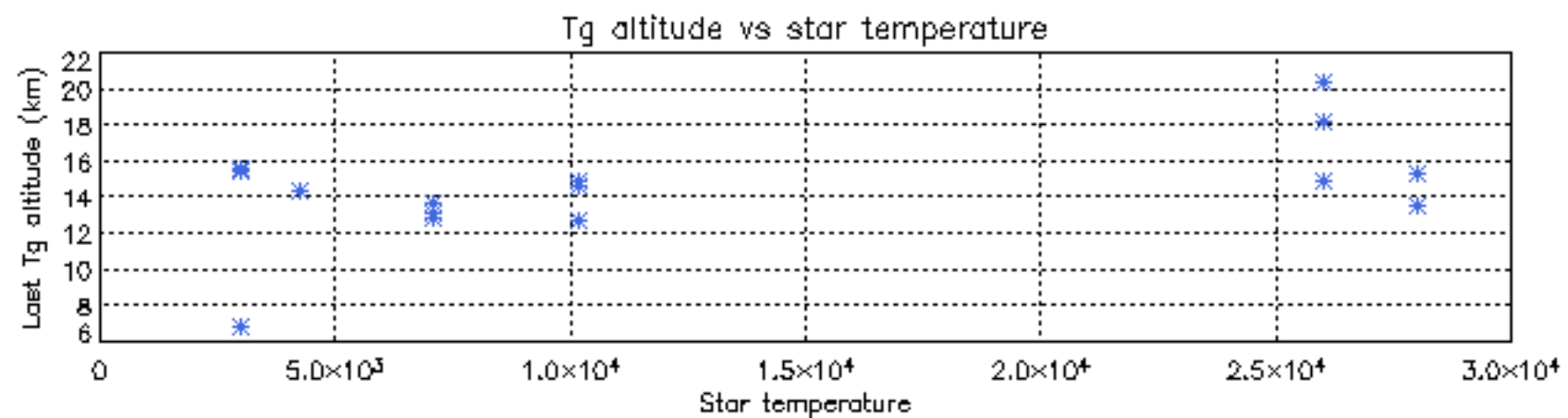
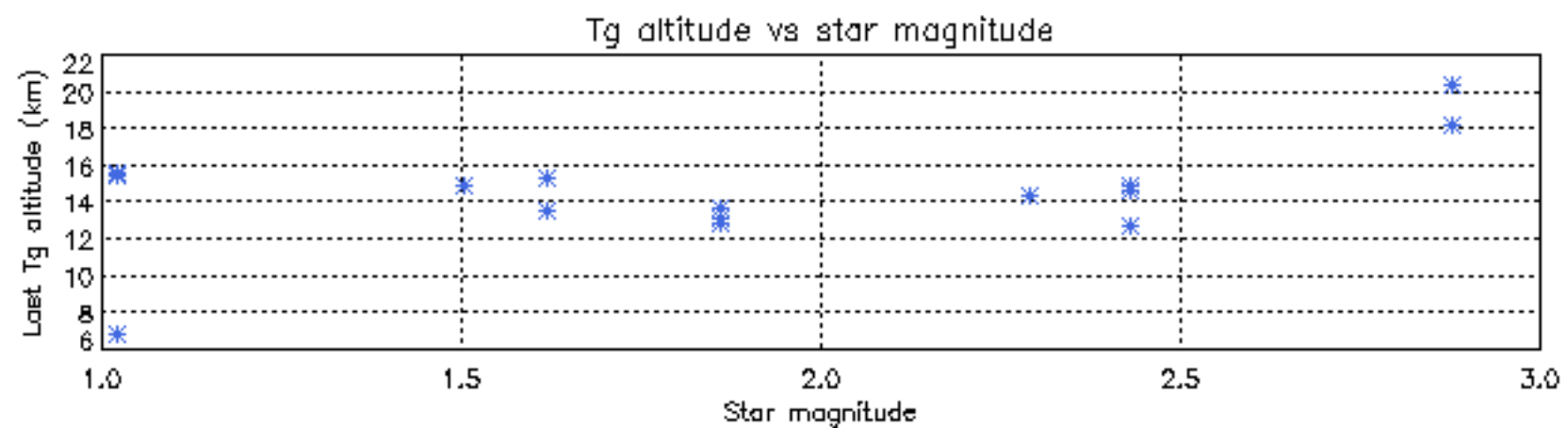
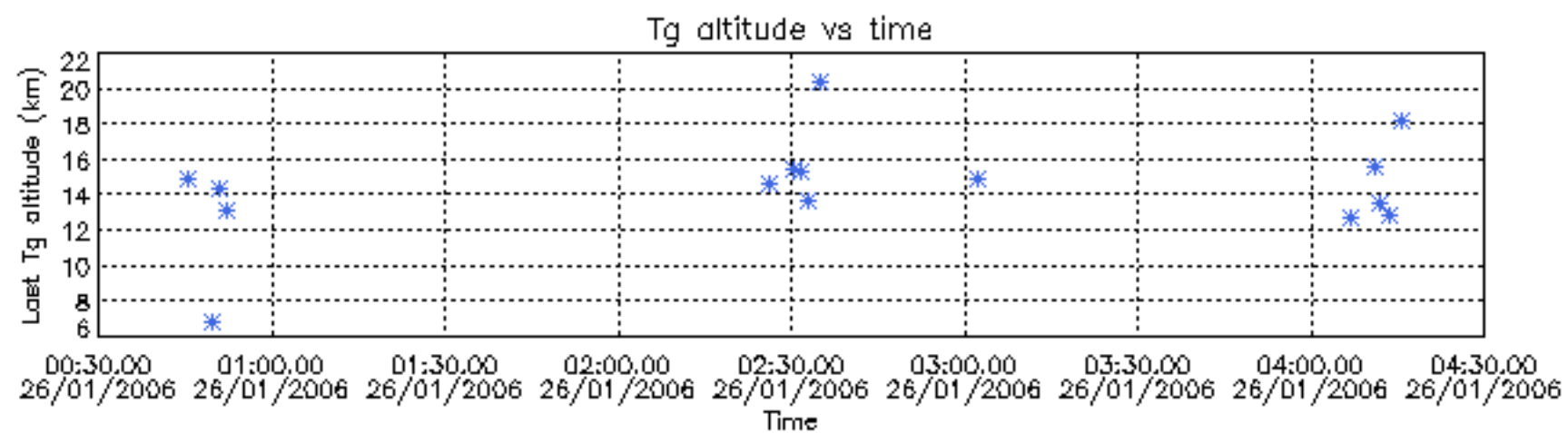


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/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  
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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  
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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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 10;-3275.9; 03-JAN-2006 15:31:29; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;20105  
 11;-2612.1; 03-JAN-2006 15:42:32; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;20105  
 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  
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 27; 651.4; 03-JAN-2006 16:36:56; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;20106  
 28; 742.9; 03-JAN-2006 16:38:27; Dark ; 42.5; 41; Eps Car ; 1.86; 4100;occ; 85; 0;20106  
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 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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 28; 652.4; 03-JAN-2006 19:58:09; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;20108  
 29; 743.8; 03-JAN-2006 19:59:40; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;20108

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 5;-3828.4; 03-JAN-2006 10:20:28; Bright; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;20102  
 6;-3639.8; 03-JAN-2006 10:23:37; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;20102  
 7;-3561.3; 03-JAN-2006 10:24:55; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;20102



8;-3414.4; 03-JAN-2006 10:27:22; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;20102  
9;-3276.4; 03-JAN-2006 10:29:40; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;20102  
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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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15;-1134.0; 03-JAN-2006 11:05:23; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 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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24; 410.3; 03-JAN-2006 11:31:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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  
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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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3;	496.1;	14-JAN-2006	14:26:16;	Dark	;	46.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	92;	0;	20262
4;	645.1;	14-JAN-2006	14:28:45;	Dark	;	40.5;	56;	53Kap Ori	;	2.07;	30000;occ;	81;	0;	20262
5;	715.1;	14-JAN-2006	14:29:55;	Dark	;	38.0;	125;	44Tot Ori	;	2.77;	30000;occ;	76;	0;	20262
6;	792.8;	14-JAN-2006	14:31:12;	Dark	;	39.5;	30;	46Eps Ori	;	1.69;	30000;occ;	79;	0;	20262
7;	926.7;	14-JAN-2006	14:33:26;	Dark	;	46.0;	14;	58Alp Ori	;	0.87;	3000;occ;	92;	0;	20262
8;	1163.3;	14-JAN-2006	14:37:23;	Bright;	;	35.5;	176;	23Zet Tau	;	3.02;	22000;occ;	71;	0;	20262
9;	1292.2;	14-JAN-2006	14:39:32;	Bright;	;	37.5;	28;	12Bet Tau	;	1.65;	15200;occ;	75;	0;	20262
10;	1386.2;	14-JAN-2006	14:41:06;	Bright;	;	36.5;	114;	3Tot Aur	;	2.69;	4600;occ;	73;	0;	20262
11;	1561.6;	14-JAN-2006	14:44:01;	Bright;	;	35.0;	42;	34Bet Aur	;	1.90;	10200;occ;	70;	0;	20262
12;	2314.1;	14-JAN-2006	14:56:34;	Bright;	;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	20262
13;	2964.6;	14-JAN-2006	15:07:24;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	20262
14;	3340.8;	14-JAN-2006	15:13:40;	Bright;	;	35.0;	133;	40Zet Her	;	2.81;	6000;occ;	70;	0;	20262
15;	3629.0;	14-JAN-2006	15:18:28;	Bright;	;	33.0;	59;	55Alp Oph	;	2.08;	8900;occ;	66;	0;	20262
16;	3982.0;	14-JAN-2006	15:24:21;	Bright;	;	19.0;	120;	1Del Oph	;	2.73;	3200;occ;	38;	0;	20262
17;	4064.8;	14-JAN-2006	15:25:44;	Bright;	;	53.0;	98;	13Zet Oph	;	2.57;	30000;occ;	106;	0;	20262
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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
20;	4645.4;	14-JAN-2006	15:35:25;	Dark	;	39.0;	131;	Gam Lup	;	2.80;	26000;occ;	78;	0;	20262
21;	4749.1;	14-JAN-2006	15:37:09;	Dark	;	37.0;	109;	Bet Lup	;	2.68;	26000;occ;	74;	0;	20262
22;	4839.6;	14-JAN-2006	15:38:39;	Dark	;	40.0;	78;	Alp Lup	;	2.30;	28000;occ;	80;	0;	20262
23;	4940.0;	14-JAN-2006	15:40:19;	Dark	;	37.0;	134;	Bet TrA	;	2.81;	6600;occ;	74;	0;	20262
24;	5053.6;	14-JAN-2006	15:42:13;	Dark	;	40.5;	10;	Bet Cen	;	0.61;	28000;occ;	81;	0;	20262
25;	5200.6;	14-JAN-2006	15:44:40;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	20262
26;	5454.7;	14-JAN-2006	15:48:54;	Dark	;	37.5;	124;	The Car	;	2.76;	30000;occ;	75;	0;	20262
27;	5538.7;	14-JAN-2006	15:50:18;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	20262
28;	5652.5;	14-JAN-2006	15:52:12;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	20262
29;	5728.4;	14-JAN-2006	15:53:28;	Dark	;	47.0;	41;	Eps Car	;	1.86;	4100;occ;	94;	0;	20262
30;	5946.9;	14-JAN-2006	15:57:06;	Dark	;	44.0;	2;	Alp Car	;	-0.74;	7000;occ;	88;	0;	20262
31;	6158.7;	14-JAN-2006	16:00:38;	Dark	;	40.5;	117;	Pi Pup	;	2.71;	3800;occ;	81;	0;	20262

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17; 4018.4; 14-JAN-2006 17:04:58; Bright; 19.0; 120; 1Del Oph ; 2.73; 3200;occ; 38; 0;20263
18; 4101.1; 14-JAN-2006 17:06:21; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;20263
19; 4368.4; 14-JAN-2006 17:10:48; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;20263
20; 4471.1; 14-JAN-2006 17:12:31; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;20263
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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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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
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26; 5573.1; 14-JAN-2006 19:05:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20264
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29; 6025.4; 14-JAN-2006 19:13:25; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;20264
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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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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
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16;	1507.1;	28-JAN-2006	00:19:35;	Dark	;	38.5;	179;	240mi2CMA	;	3.03;	24000;occ;	77;	0;	20454
17;	1636.3;	28-JAN-2006	00:21:44;	Dark	;	50.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	100;	0;	20454
18;	2047.1;	28-JAN-2006	00:28:35;	Dark	;	10.0;	153;	3Bet CMI	;	2.89;	13100;occ;	20;	0;	20454
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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
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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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6;	-438.7;	27-JAN-2006	07:01:10;	Dark	;	39.5;	25;	35Lam Sco	;	1.62;	28000;occ;	79;	0;	20443
7;	-347.6;	27-JAN-2006	07:02:41;	Dark	;	45.5;	40;	The Sco	;	1.86;	7100;occ;	91;	0;	20443
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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
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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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 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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16; -420.6; 31-JAN-2006 13:18:00; Dark ; 37.0; 25; 35Lam Sco ; 1.62; 28000;occ; 74; 0;20504
17; -332.0; 31-JAN-2006 13:19:28; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;20504
18; -218.8; 31-JAN-2006 13:21:21; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;20504
19; -125.2; 31-JAN-2006 13:22:55; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;20504
20; 107.3; 31-JAN-2006 13:26:48; Dark ; 38.0; 43; Alp TrA ; 1.91; 4250;occ; 76; 0;20505
21; 191.7; 31-JAN-2006 13:28:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;20505
22; 342.1; 31-JAN-2006 13:30:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20505
23; 467.3; 31-JAN-2006 13:32:48; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;20505
24; 681.1; 31-JAN-2006 13:36:21; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;20505
25; 822.1; 31-JAN-2006 13:38:42; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;20505
26; 927.1; 31-JAN-2006 13:40:27; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;20505
27; 1078.9; 31-JAN-2006 13:42:59; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;20505
28; 1204.2; 31-JAN-2006 13:45:04; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;20505
29; 1287.1; 31-JAN-2006 13:46:27; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;20505
30; 1433.3; 31-JAN-2006 13:48:54; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;20505
31; 1516.1; 31-JAN-2006 13:50:16; Dark ; 38.5; 179; 240mi2CMA ; 3.03; 24000;occ; 77; 0;20505

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