

# GOMOS Daily Report 13-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	15JAN2006 04:31:28

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (13JAN2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (14JAN2006 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)

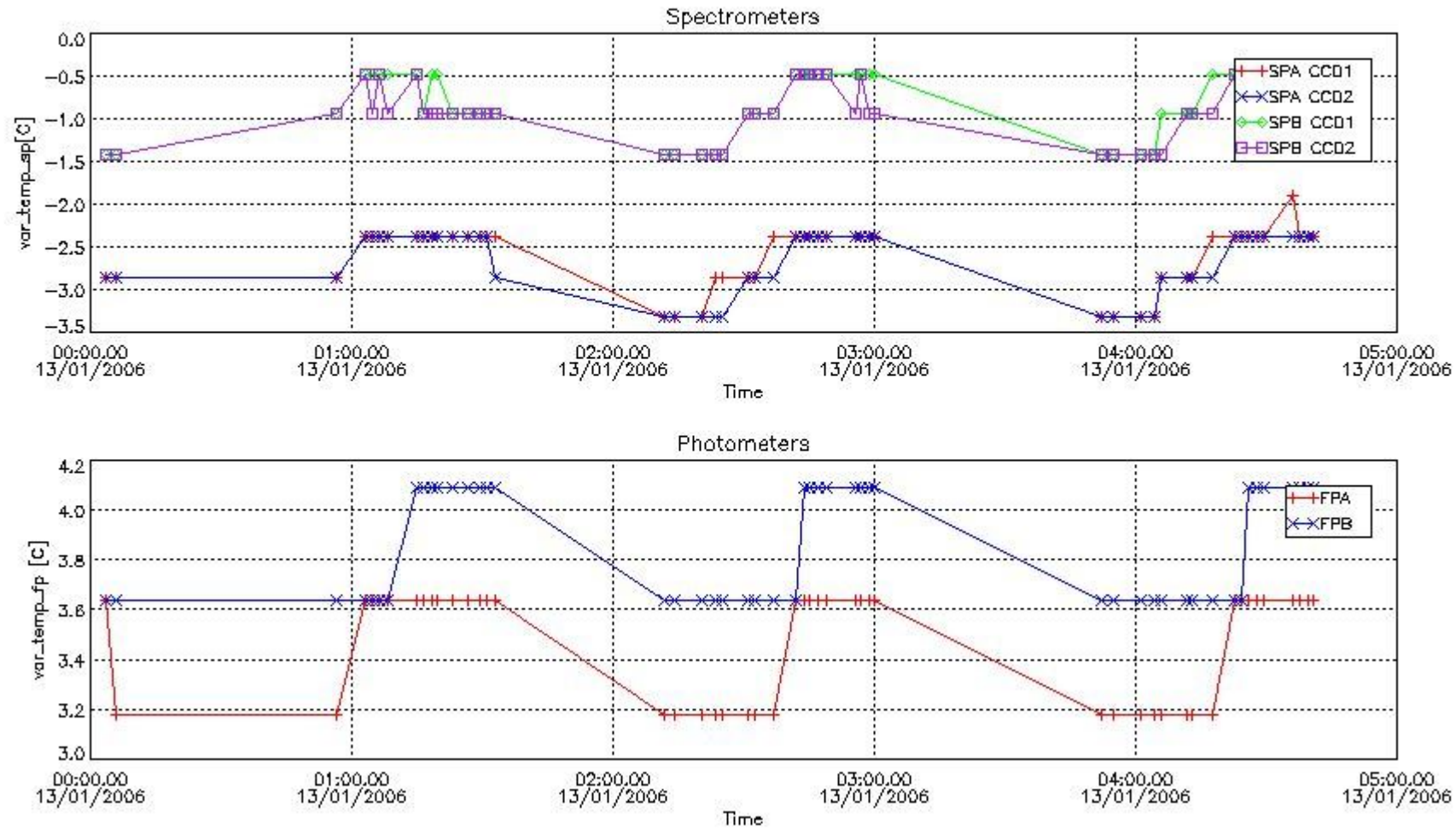
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060113_000334_000000362044_00145_20239_0018.N1	13-JAN-2006 00:03:34	Bright	35.500	176	23Zet Tau	3.0200	22000.	71	20239	No
2	GOM_TRA_1PNPDE20060113_000543_000000362044_00145_20239_0019.N1	13-JAN-2006 00:05:43	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	20239	No
3	GOM_TRA_1PNPDE20060113_005617_000000502044_00145_20239_0000.N1	13-JAN-2006 00:56:17	Twilight	50.000	16	21Alp Sco	1.0200	3000.0	100	20239	No
4	GOM_TRA_1PNPDE20060113_010308_000000392044_00145_20239_0001.N1	13-JAN-2006 01:03:08	Dark	39.000	109	Bet Lup	2.6770	26000.	78	20239	No
5	GOM_TRA_1PNPDE20060113_010438_000000392044_00145_20239_0002.N1	13-JAN-2006 01:04:38	Dark	39.000	78	Alp Lup	2.3040	28000.	78	20239	No
6	GOM_TRA_1PNPDE20060113_010628_000000392044_00146_20240_0003.N1	13-JAN-2006 01:06:28	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	20240	No
7	GOM_TRA_1PNPDE20060113_010815_000000402044_00146_20240_0004.N1	13-JAN-2006 01:08:15	Dark	40.000	10	Bet Cen	0.61000	28000.	80	20240	No
8	GOM_TRA_1PNPDE20060113_011456_000000382044_00146_20240_0005.N1	13-JAN-2006 01:14:56	Dark	37.500	124	The Car	2.7640	30000.	75	20240	No
9	GOM_TRA_1PNPDE20060113_011625_000000382044_00146_20240_0006.N1	13-JAN-2006 01:16:25	Dark	37.500	29	Bet Car	1.6720	10200.	75	20240	No
10	GOM_TRA_1PNPDE20060113_011815_000000452044_00146_20240_0007.N1	13-JAN-2006 01:18:15	Dark	45.000	71	lot Car	2.2460	7700.0	90	20240	No
11	GOM_TRA_1PNPDE20060113_011933_000000522044_00146_20240_0008.N1	13-JAN-2006 01:19:33	Dark	52.000	41	Eps Car	1.8600	4100.0	104	20240	No
12	GOM_TRA_1PNPDE20060113_012316_000000432044_00146_20240_0009.N1	13-JAN-2006 01:23:16	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	20240	No
13	GOM_TRA_1PNPDE20060113_012646_000000442044_00146_20240_0010.N1	13-JAN-2006 01:26:46	Dark	43.500	117	Pi Pup	2.7060	3800.0	87	20240	No
14	GOM_TRA_1PNPDE20060113_012921_000000452044_00146_20240_0011.N1	13-JAN-2006 01:29:21	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	20240	No
15	GOM_TRA_1PNPDE20060113_013047_000000312044_00146_20240_0012.N1	13-JAN-2006 01:30:47	Twilight	31.000	179	24Omi2CMa	3.0320	24000.	62	20240	No
16	GOM_TRA_1PNPDE20060113_013302_000000492044_00146_20240_0013.N1	13-JAN-2006 01:33:02	Twilight	49.000	1	9Alp CMa	-1.4400	11000.	98	20240	No
17	GOM_TRA_1PNPDE20060113_021141_000000432044_00146_20240_0000.N1	13-JAN-2006 02:11:41	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	20240	No
18	GOM_TRA_1PNPDE20060113_021411_000000362044_00146_20240_0001.N1	13-JAN-2006 02:14:11	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	20240	No
19	GOM_TRA_1PNPDE20060113_022027_000000362044_00146_20240_0002.N1	13-JAN-2006 02:20:27	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	20240	No
20	GOM_TRA_1PNPDE20060113_022330_000000382044_00146_20240_0003.N1	13-JAN-2006 02:23:30	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	20240	No
21	GOM_TRA_1PNPDE20060113_022514_000000332044_00146_20240_0004.N1	13-JAN-2006 02:25:14	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	20240	No
22	GOM_TRA_1PNPDE20060113_023102_000000392044_00146_20240_0005.N1	13-JAN-2006 02:31:02	Twilight	38.500	120	1Del Oph	2.7340	3200.0	77	20240	No
23	GOM_TRA_1PNPDE20060113_023226_000000372044_00146_20240_0006.N1	13-JAN-2006 02:32:26	Twilight	36.500	98	13Zet Oph	2.5710	30000.	73	20240	No
24	GOM_TRA_1PNPDE20060113_023653_000000532044_00146_20240_0007.N1	13-JAN-2006 02:36:53	Twilight	53.000	16	21Alp Sco	1.0200	3000.0	106	20240	No
25	GOM_TRA_1PNPDE20060113_024203_000000382044_00146_20240_0008.N1	13-JAN-2006 02:42:03	Twilight	37.500	131	Gam Lup	2.8000	26000.	75	20240	No
26	GOM_TRA_1PNPDE20060113_024344_000000402044_00146_20240_0009.N1	13-JAN-2006 02:43:44	Dark	40.000	109	Bet Lup	2.6770	26000.	80	20240	No
27	GOM_TRA_1PNPDE20060113_024515_000000412044_00146_20240_0010.N1	13-JAN-2006 02:45:15	Dark	41.000	78	Alp Lup	2.3040	28000.	82	20240	No
28	GOM_TRA_1PNPDE20060113_024704_000000382044_00147_20241_0011.N1	13-JAN-2006 02:47:04	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	20241	No
29	GOM_TRA_1PNPDE20060113_024852_000000412044_00147_20241_0012.N1	13-JAN-2006 02:48:52	Dark	41.000	10	Bet Cen	0.61000	28000.	82	20241	No
30	GOM_TRA_1PNPDE20060113_025533_000000382044_00147_20241_0013.N1	13-JAN-2006 02:55:33	Dark	38.000	124	The Car	2.7640	30000.	76	20241	No
31	GOM_TRA_1PNPDE20060113_025701_000000382044_00147_20241_0014.N1	13-JAN-2006 02:57:01	Dark	37.500	29	Bet Car	1.6720	10200.	75	20241	No
32	GOM_TRA_1PNPDE20060113_025852_000000392044_00147_20241_0015.N1	13-JAN-2006 02:58:52	Dark	39.000	71	lot Car	2.2460	7700.0	78	20241	No
33	GOM_TRA_1PNPDE20060113_030010_000000492044_00147_20241_0016.N1	13-JAN-2006 03:00:10	Dark	48.500	41	Eps Car	1.8600	4100.0	97	20241	No
34	GOM_TRA_1PNPDE20060113_035217_000000372044_00147_20241_0000.N1	13-JAN-2006 03:52:17	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	20241	No
35	GOM_TRA_1PNPDE20060113_035447_000000342044_00147_20241_0001.N1	13-JAN-2006 03:54:47	Bright	33.500	130	23Bet Dra	2.7990	5800.0	67	20241	No
36	GOM_TRA_1PNPDE20060113_040103_000000372044_00147_20241_0002.N1	13-JAN-2006 04:01:03	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	20241	No
37	GOM_TRA_1PNPDE20060113_040407_000000432044_00147_20241_0003.N1	13-JAN-2006 04:04:07	Bright	42.500	127	27Bet Her	2.7810	4700.0	85	20241	No
38	GOM_TRA_1PNPDE20060113_040550_000000332044_00147_20241_0004.N1	13-JAN-2006 04:05:50	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	20241	No
39	GOM_TRA_1PNPDE20060113_041138_000000552044_00147_20241_0005.N1	13-JAN-2006 04:11:38	Twilight	55.000	120	1Del Oph	2.7340	3200.0	110	20241	No
40	GOM_TRA_1PNPDE20060113_041303_000000532044_00147_20241_0006.N1	13-JAN-2006 04:13:03	Twilight	53.000	98	13Zet Oph	2.5710	30000.	106	20241	No
41	GOM_TRA_1PNPDE20060113_041730_000000492044_00147_20241_0007.N1	13-JAN-2006 04:17:30	Twilight	48.500	16	21Alp Sco	1.0200	3000.0	97	20241	No
42	GOM_TRA_1PNPDE20060113_042240_000000382044_00147_20241_0008.N1	13-JAN-2006 04:22:40	Twilight	37.500	131	Gam Lup	2.8000	26000.	75	20241	No
43	GOM_TRA_1PNPDE20060113_042421_000000412044_00147_20241_0009.N1	13-JAN-2006 04:24:21	Dark	40.500	109	Bet Lup	2.6770	26000.	81	20241	No
44	GOM_TRA_1PNPDE20060113_042551_000000402044_00147_20241_0010.N1	13-JAN-2006 04:25:51	Dark	40.000	78	Alp Lup	2.3040	28000.	80	20241	No
45	GOM_TRA_1PNPDE20060113_042740_000000372044_00148_20242_0011.N1	13-JAN-2006 04:27:40	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	20242	No
46	GOM_TRA_1PNPDE20060113_042928_000000412044_00148_20242_0012.N1	13-JAN-2006 04:29:28	Dark	40.500	10	Bet Cen	0.61000	28000.	81	20242	No

47	GOM_TRA_1PNPDE20060113_043610_000000382044_00148_20242_0013.N1	13-JAN-2006 04:36:10	Dark	38.000	124	The Car	2.7640	30000.	76	20242	No
48	GOM_TRA_1PNPDE20060113_043737_000000372044_00148_20242_0014.N1	13-JAN-2006 04:37:37	Dark	37.000	29	Bet Car	1.6720	10200.	74	20242	No
49	GOM_TRA_1PNPDE20060113_043928_000000382044_00148_20242_0015.N1	13-JAN-2006 04:39:28	Dark	38.000	71	lot Car	2.2460	7700.0	76	20242	No
50	GOM_TRA_1PNPDE20060113_044046_000000432044_00148_20242_0016.N1	13-JAN-2006 04:40:46	Dark	43.000	41	Eps Car	1.8600	4100.0	86	20242	No

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



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

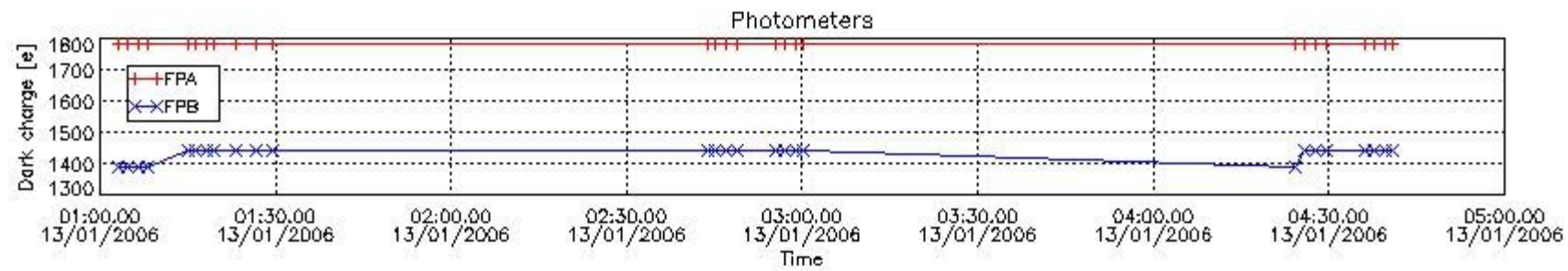
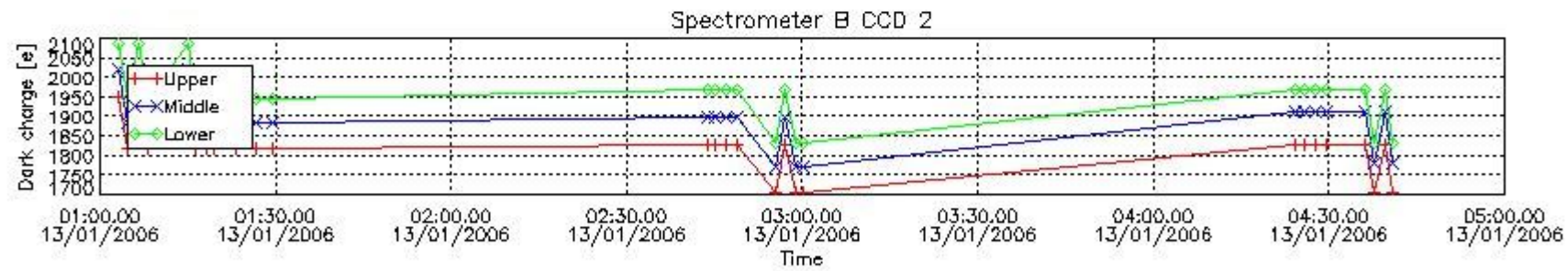
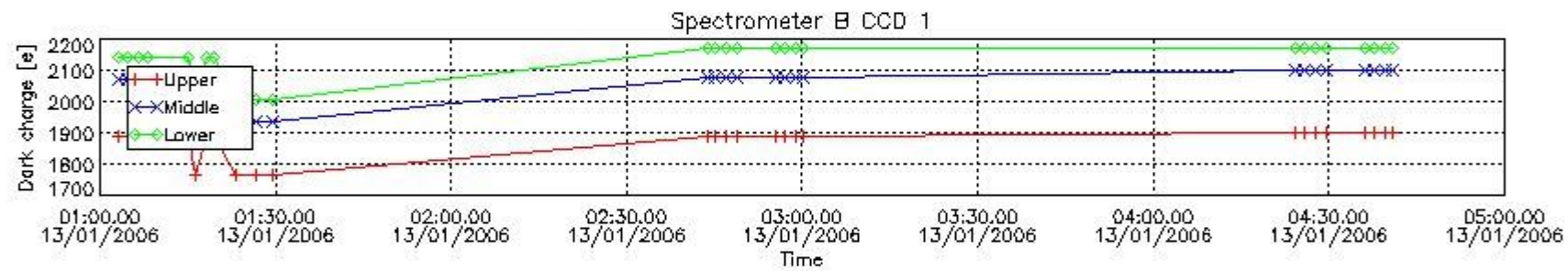
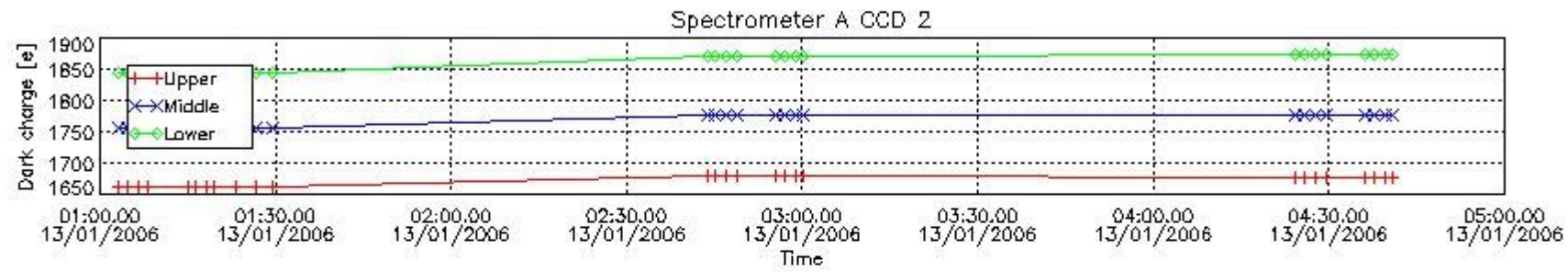
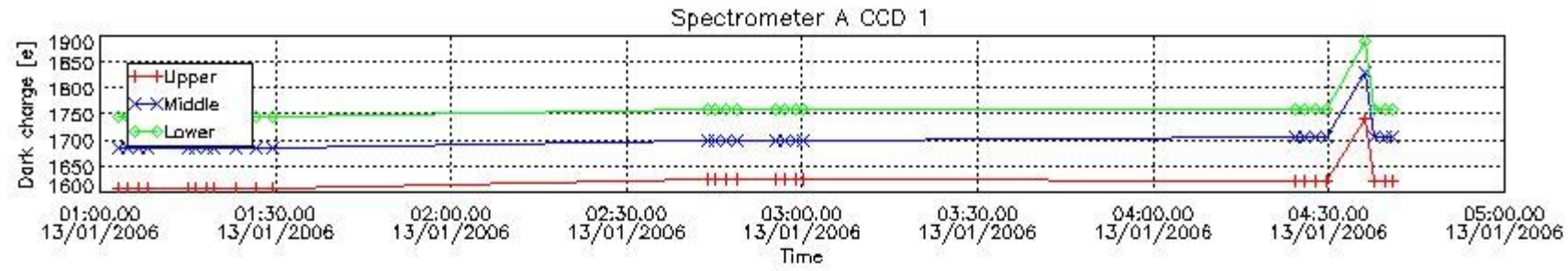
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





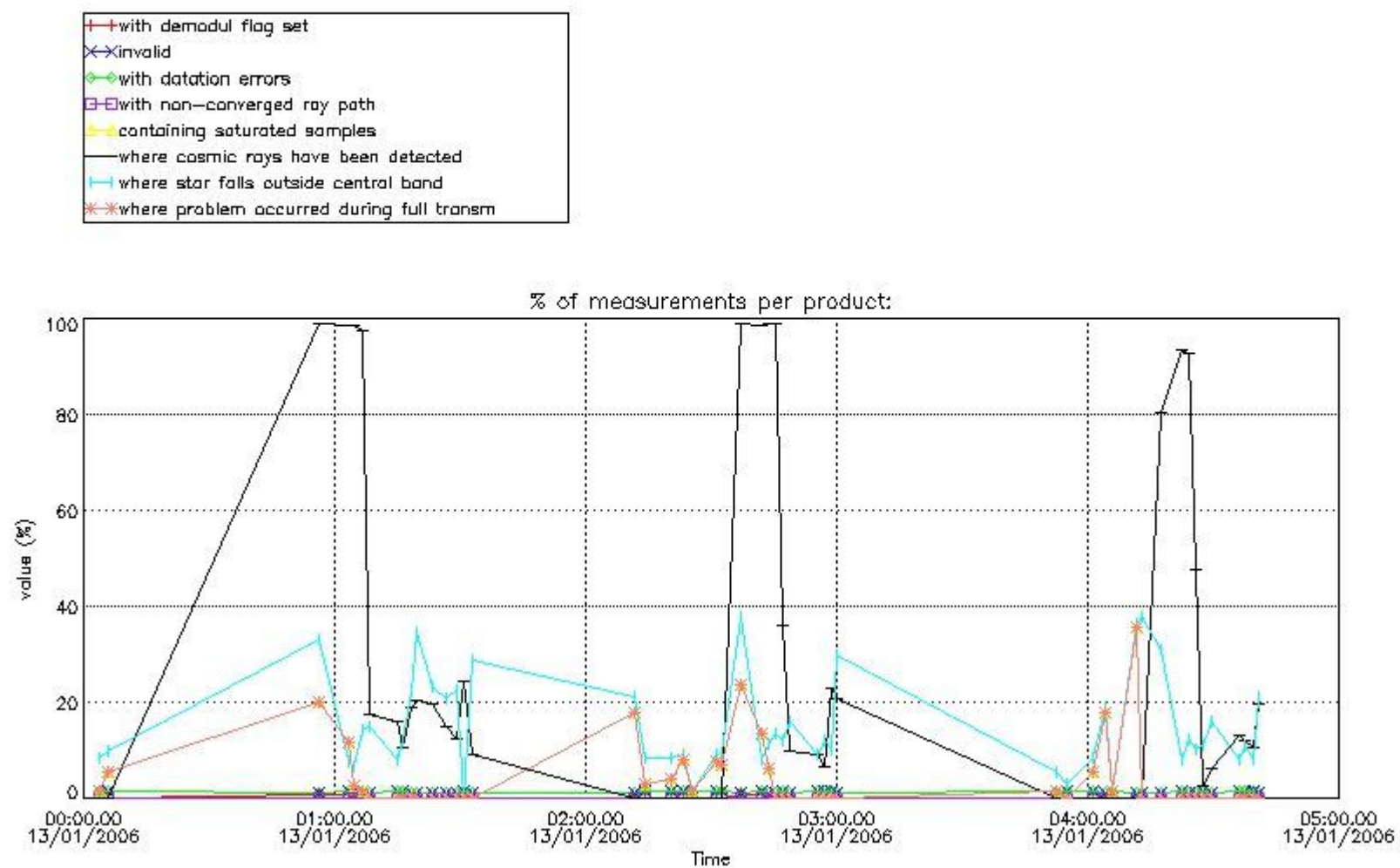
## 5. Demodulation flag and quality information monitoring

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:

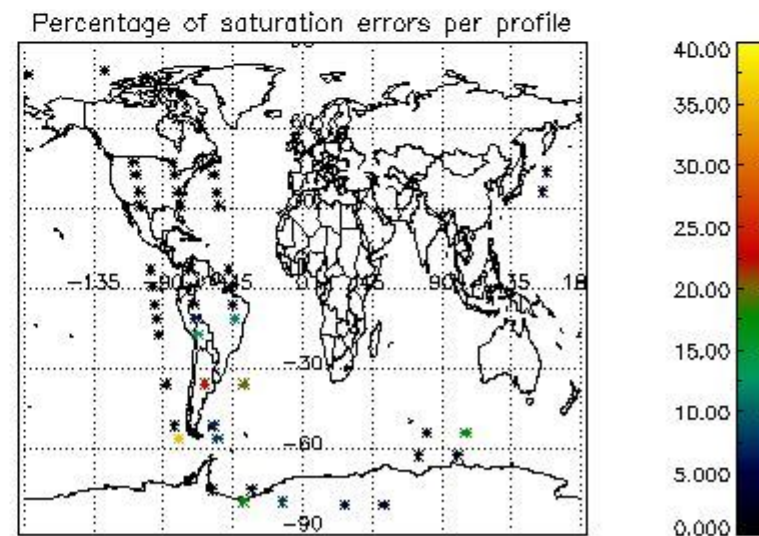
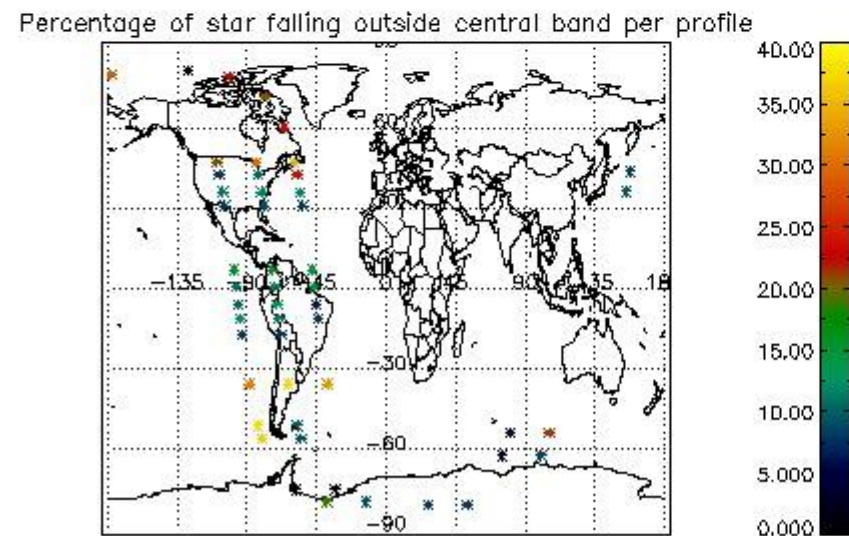
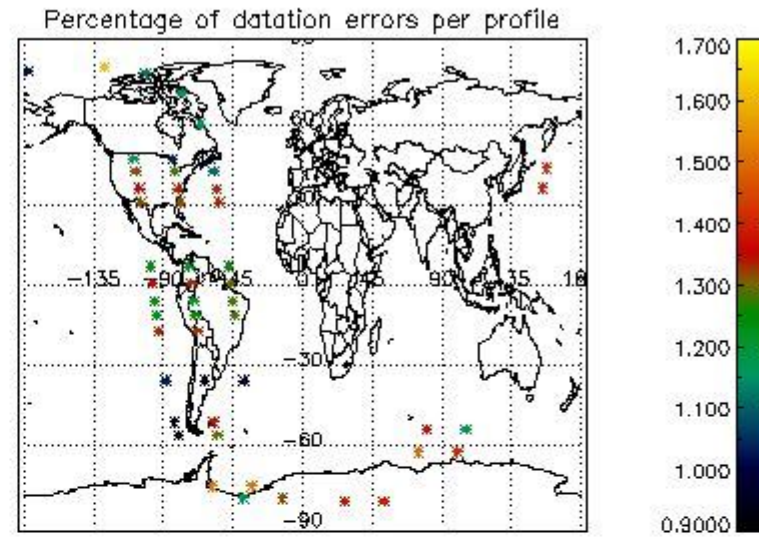
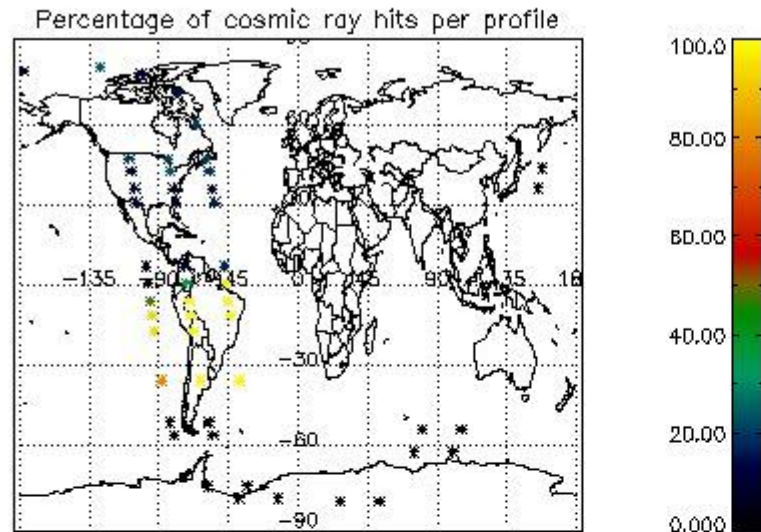
At least one measurement with demodulation flag set:	24.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





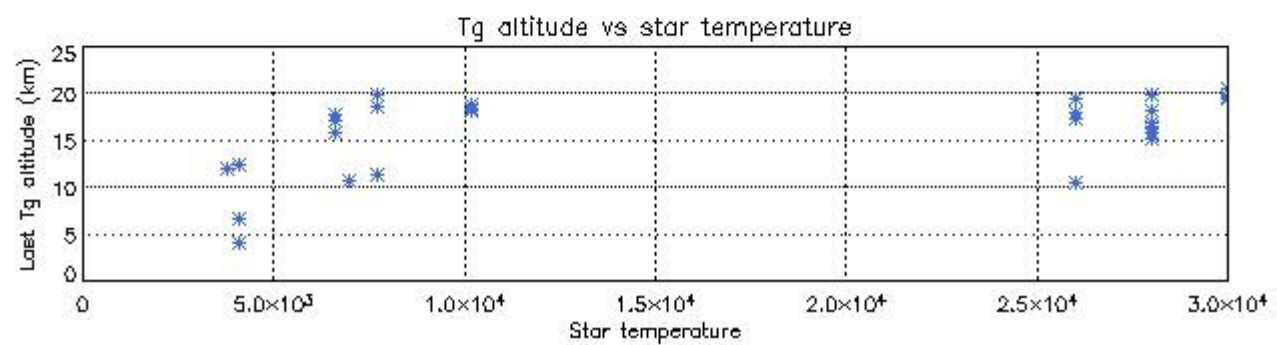
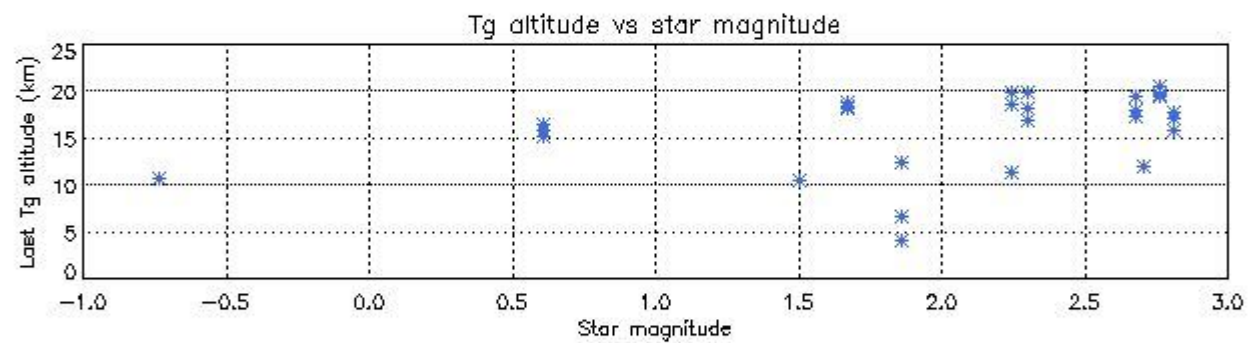
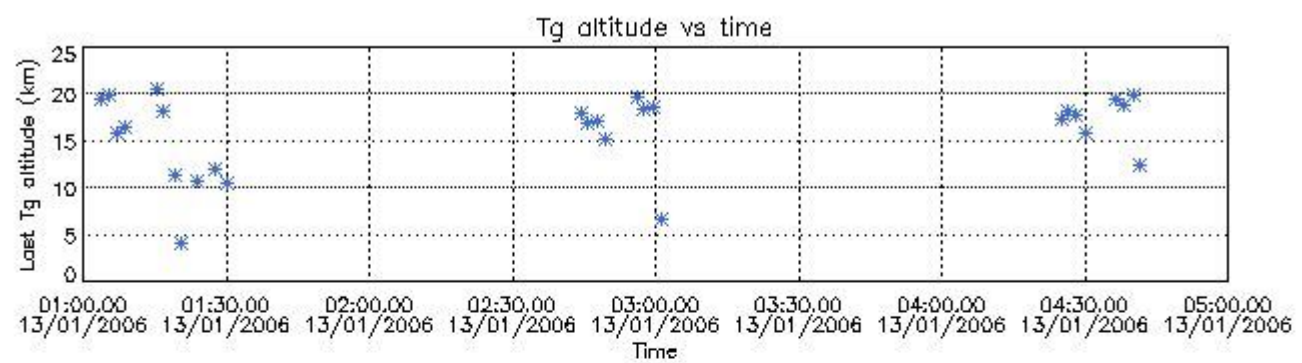
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.879	19.054	12.583
St. deviation:	4.2470	3.8456	10.056
Maximum:	20.490	23.629	34.923
Minimum:	3.9610	12.153	3.0975
Number of data:	27.000	12.000	11.000

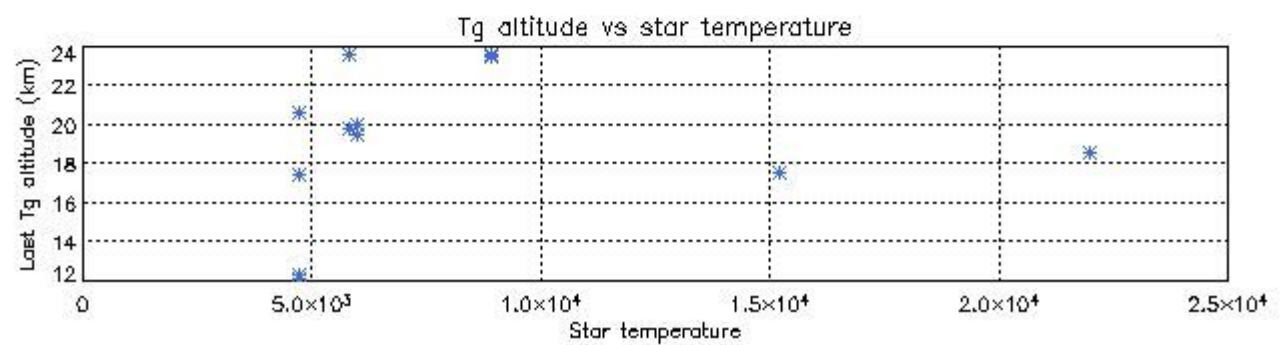
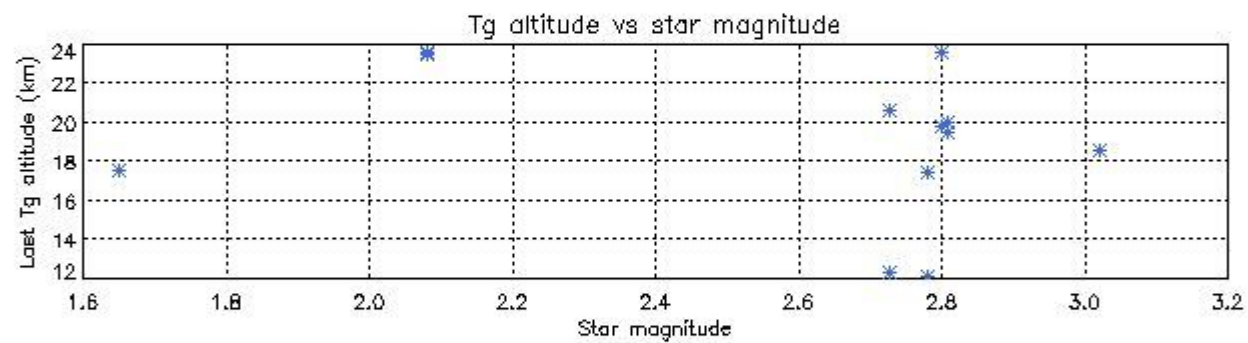
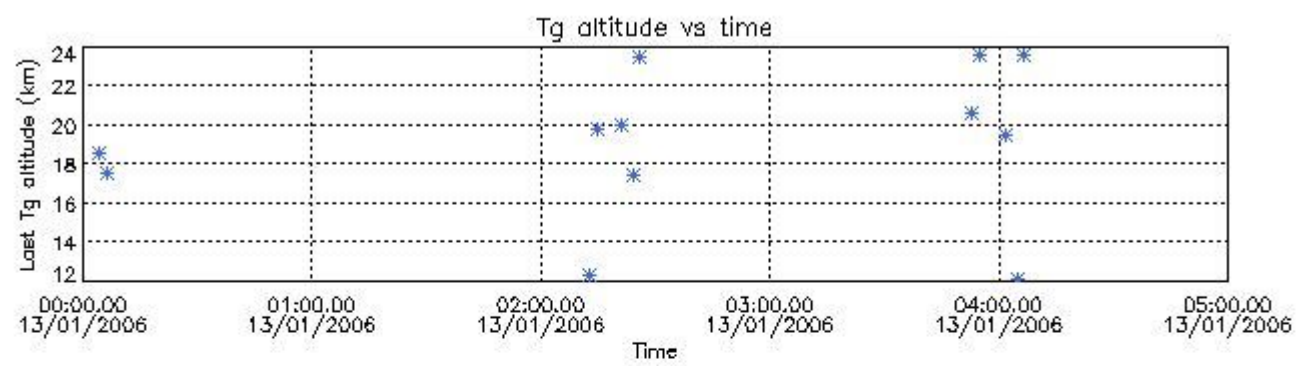
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

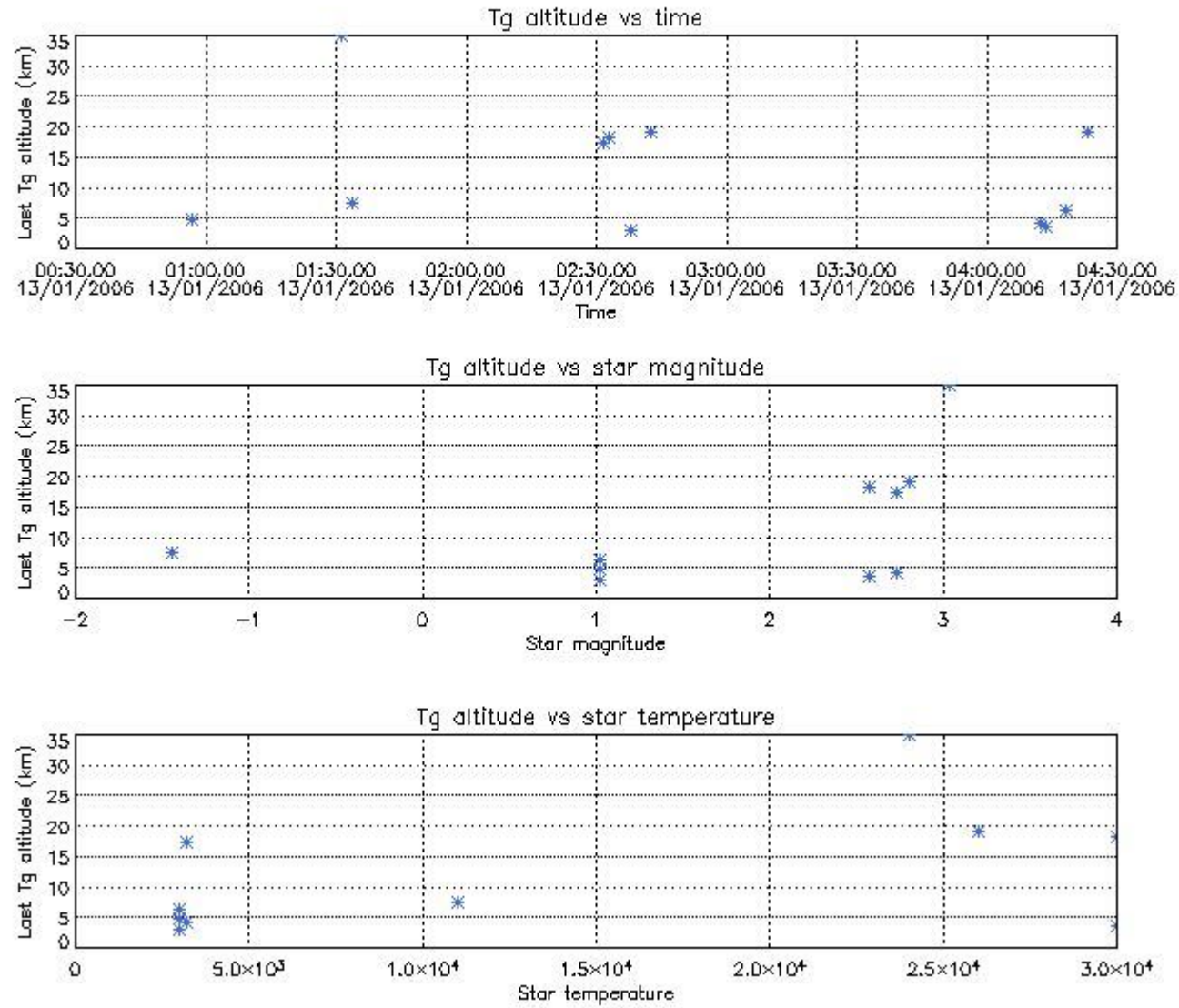
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



## Tangent altitude at which the star is lost



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

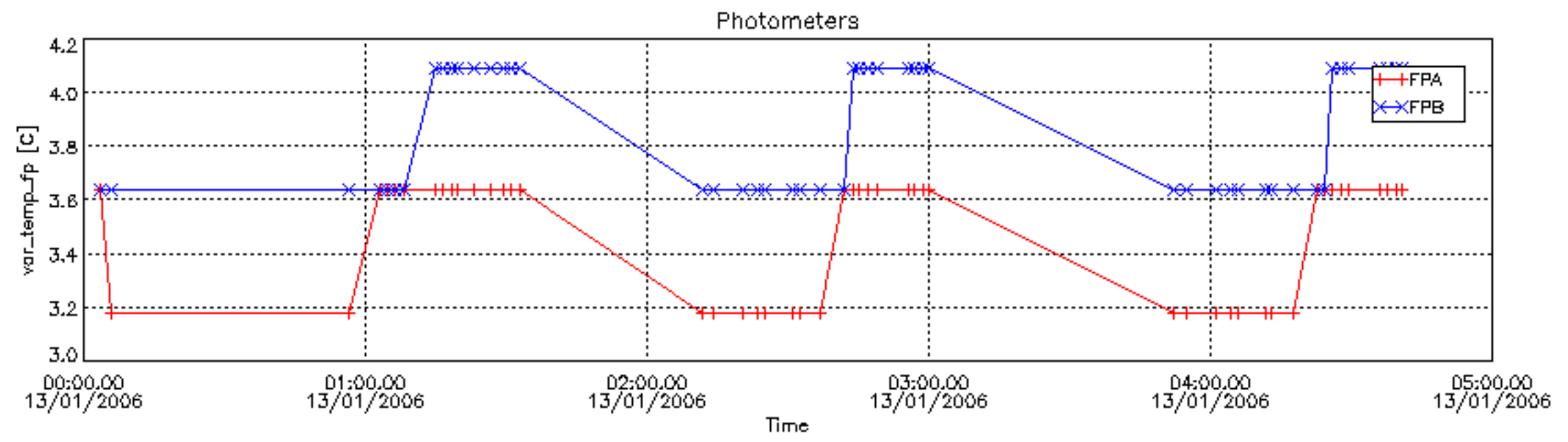
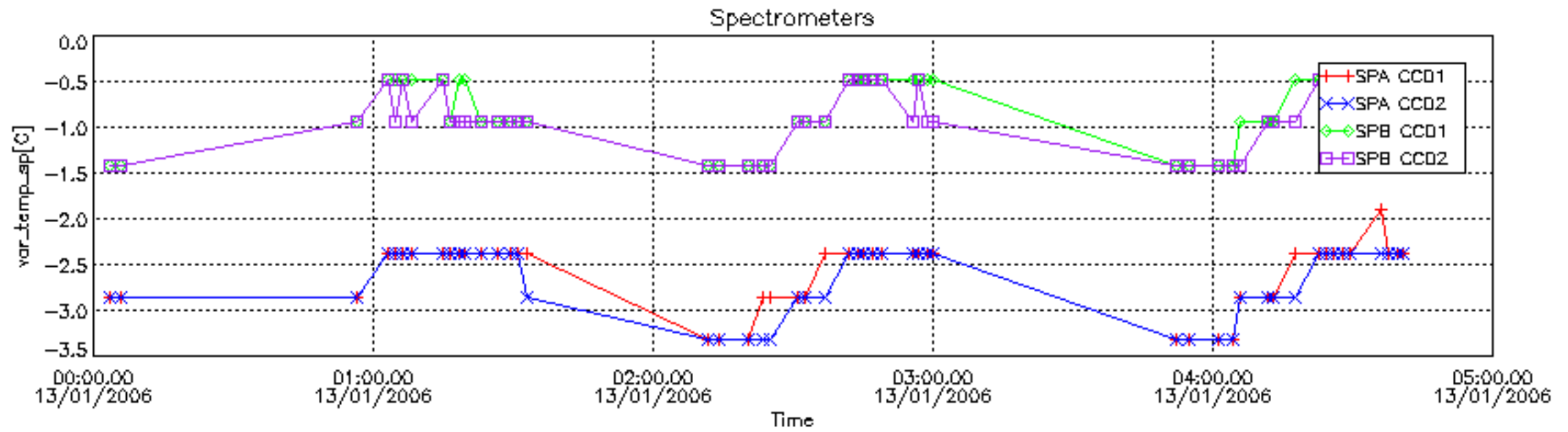
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

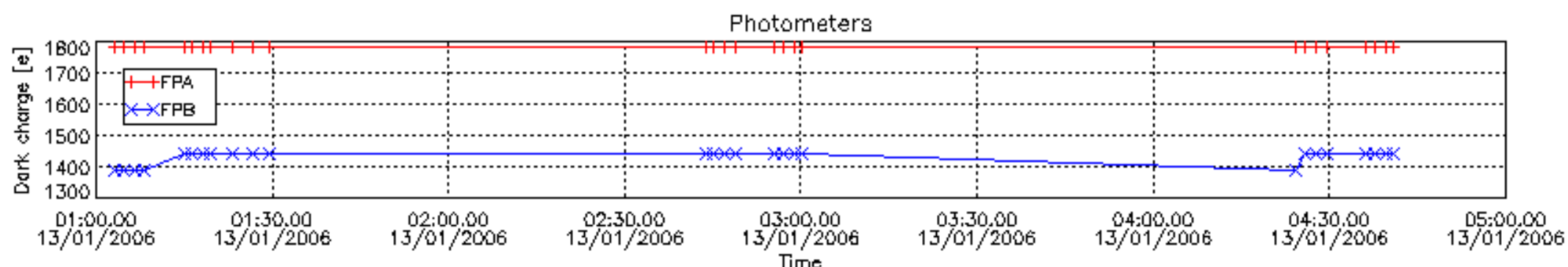
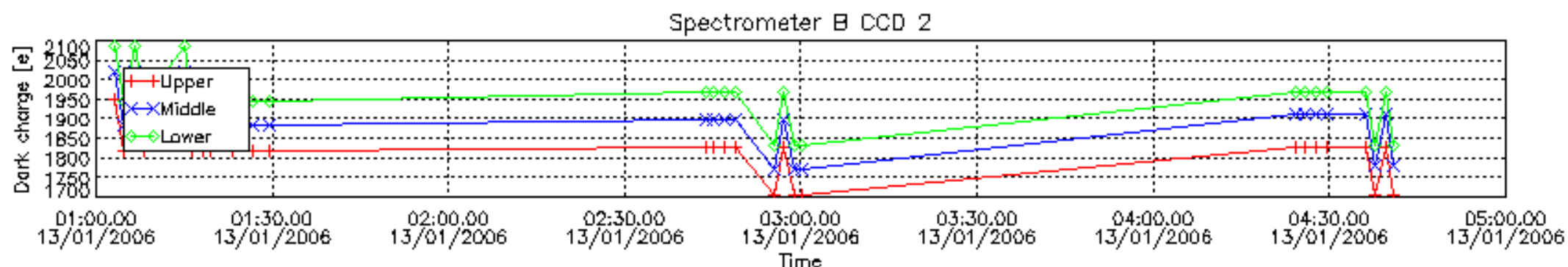
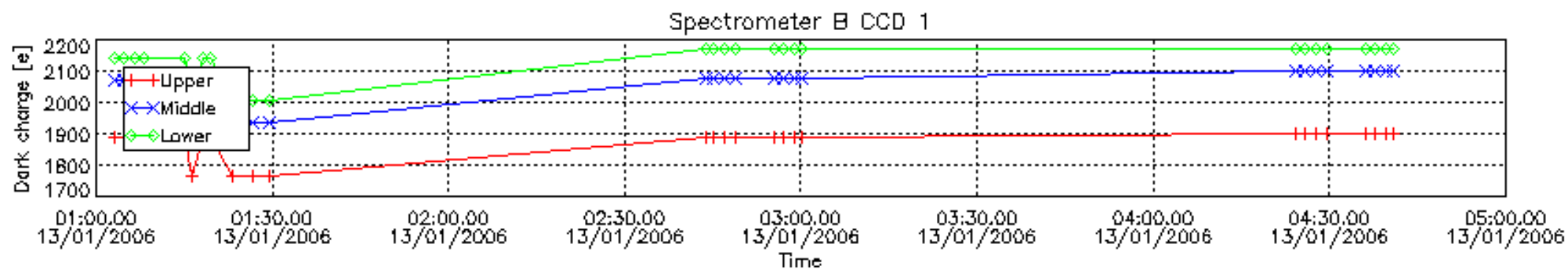
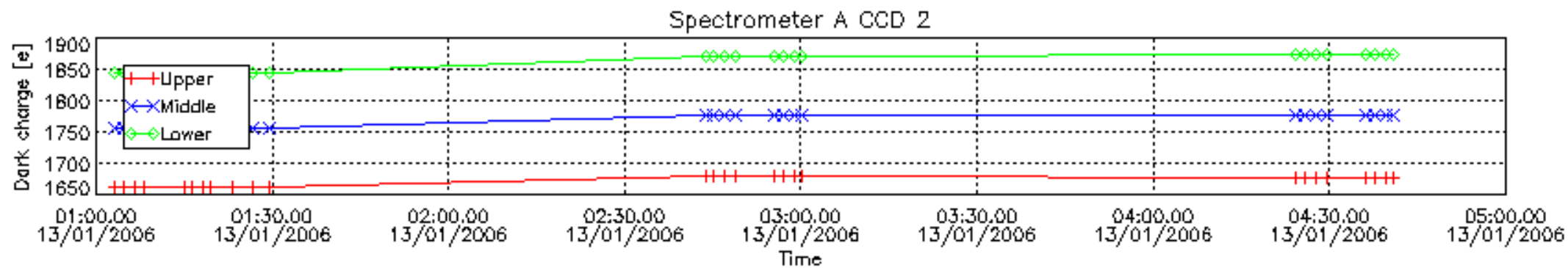
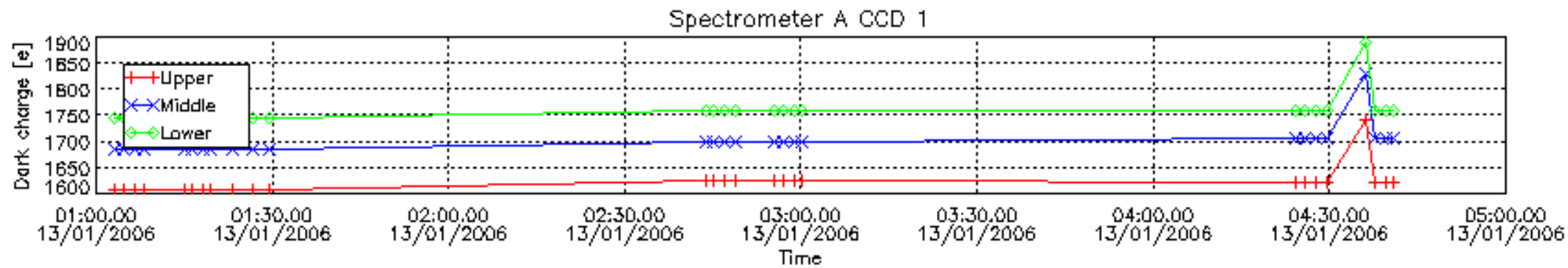
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.8	1445.4	1459.9	1446.2
St. deviation:	6.1646	10.049	8.0740	10.563
Maximum:	1504.0	1506.0	1505.0	1495.0
Minimum:	1455.0	1430.0	1433.0	1411.0
Number of data:	21850.	21850.	9050.0	9050.0

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

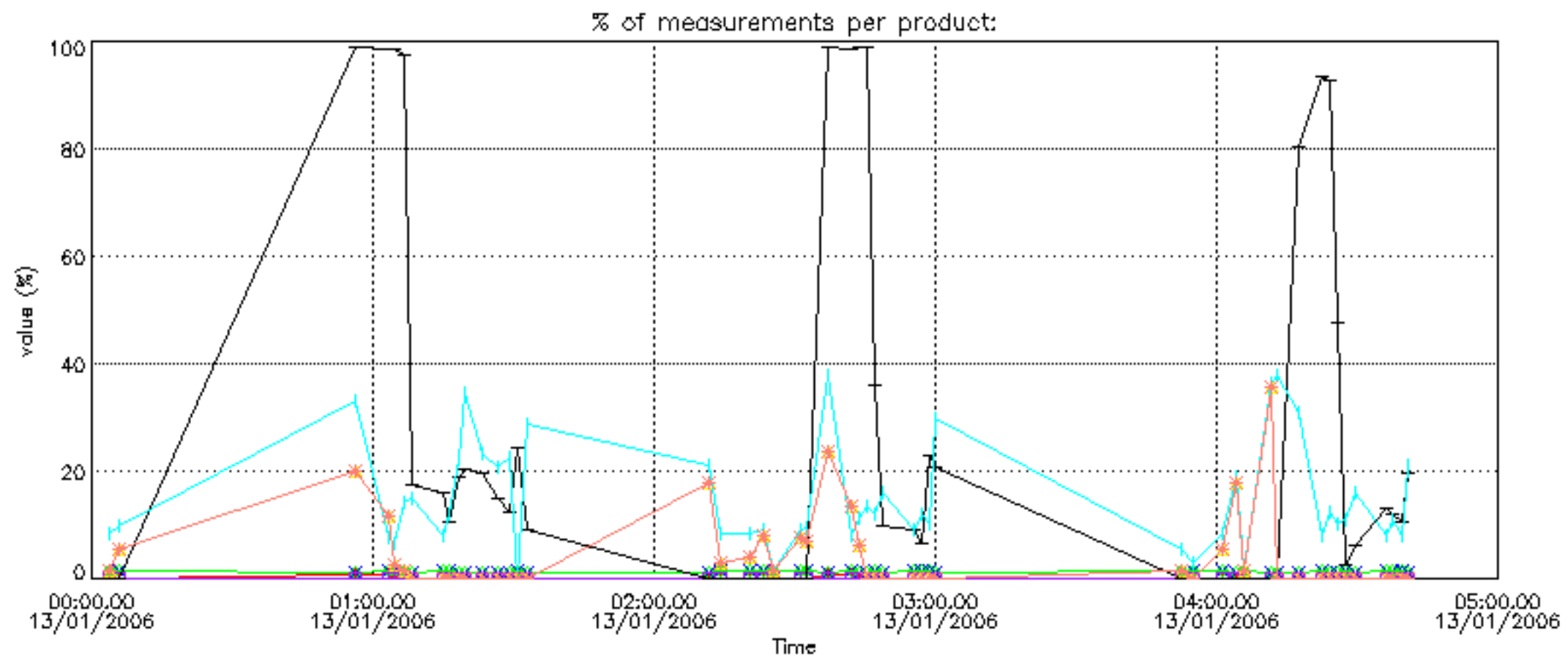
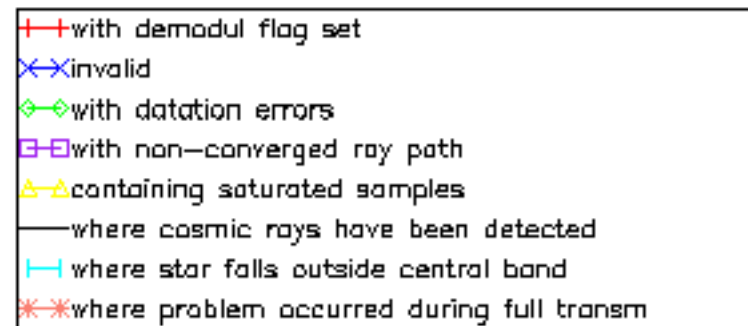
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	13-JAN-2006 00:03:34
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060111_114949_20060108_000000_20100101_000000	1	13-JAN-2006 00:03:34
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	13-JAN-2006 00:03:34
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-JAN-2006 00:03:34
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	13-JAN-2006 00:03:34
ECMWF_FILE	AUX_ECF_AXNECM20060112_060639_20060112_210000_20060113_090000	1	13-JAN-2006 00:03:34
ECMWF_FILE	AUX_ECF_AXNECM20060112_192309_20060113_030000_20060113_150000	34	13-JAN-2006 03:52:17
OPTIONAL_ECMWF_FILE	NOT USED	1	13-JAN-2006 00:03:34
ORBIT_DATA_FILE	AUX_FRO_AXVPDS20060112_135323_20051230_000000_20060118_215634	1	13-JAN-2006 00:03:34

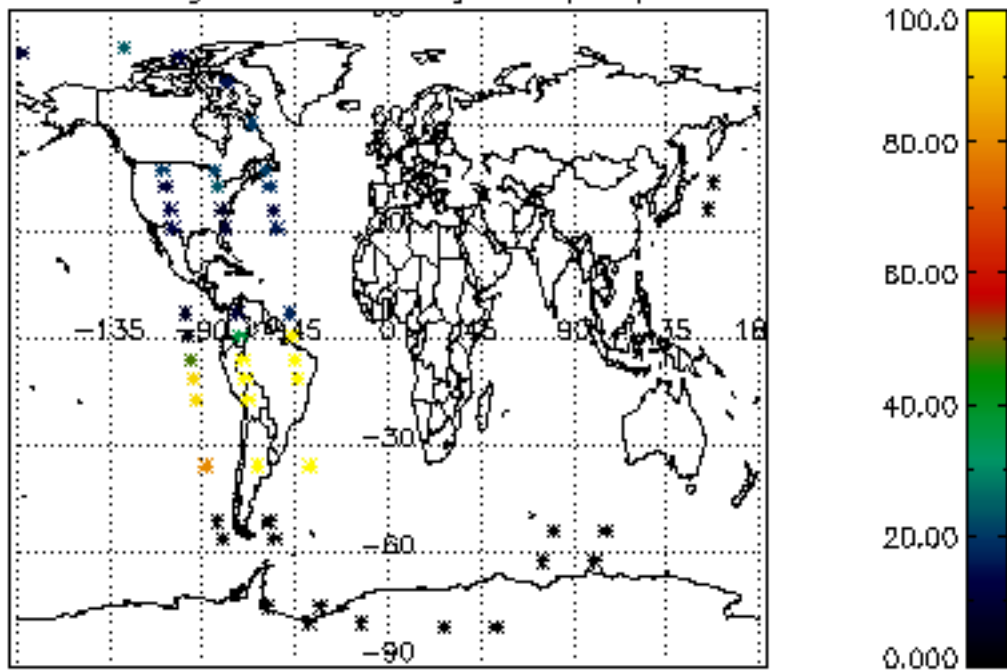




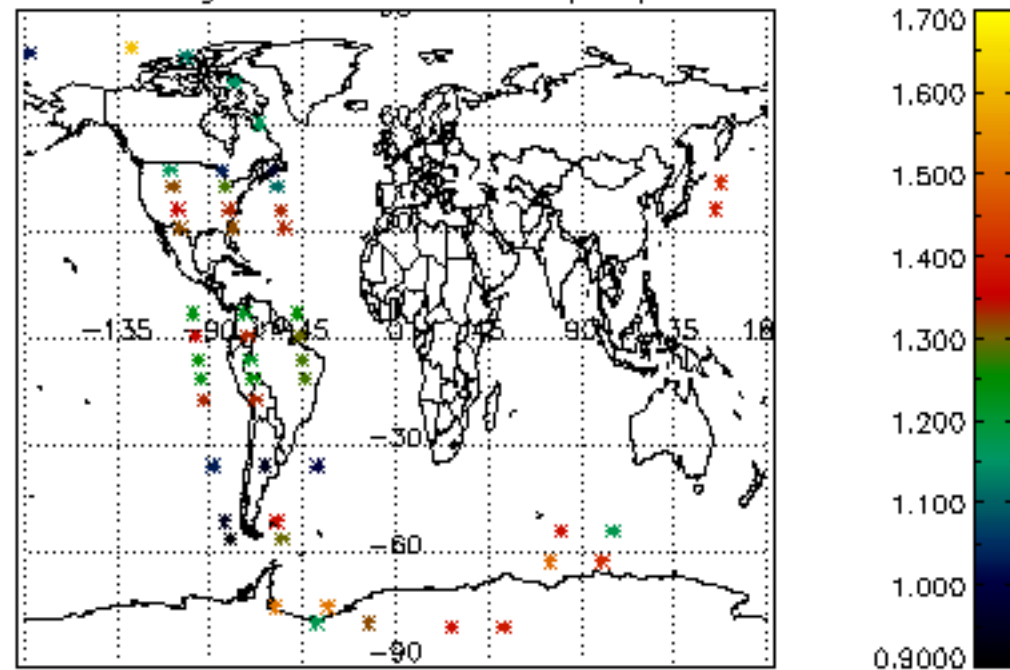




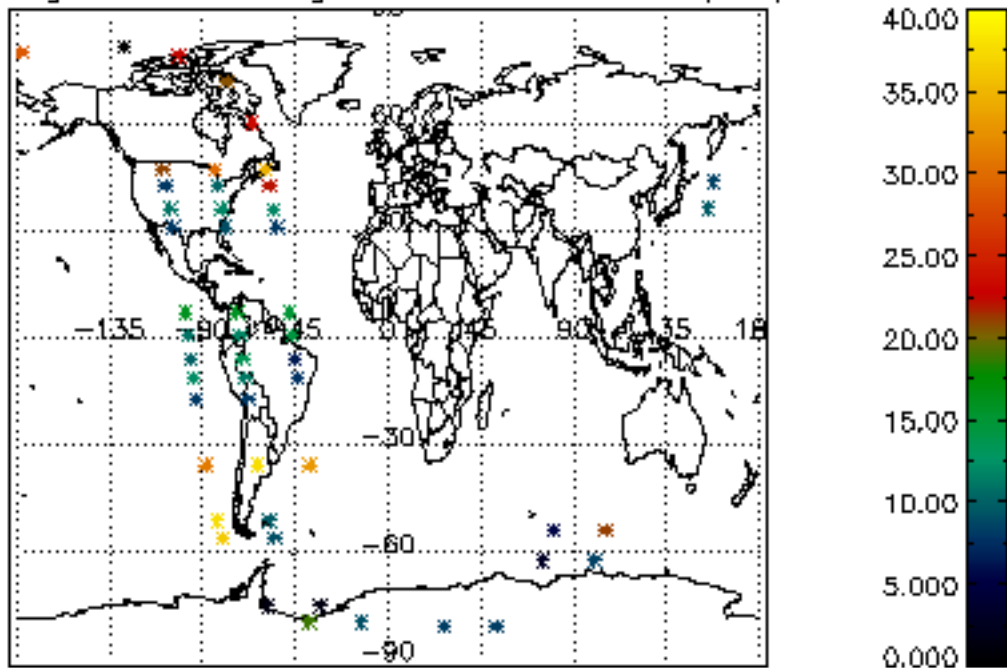
Percentage of cosmic ray hits per profile



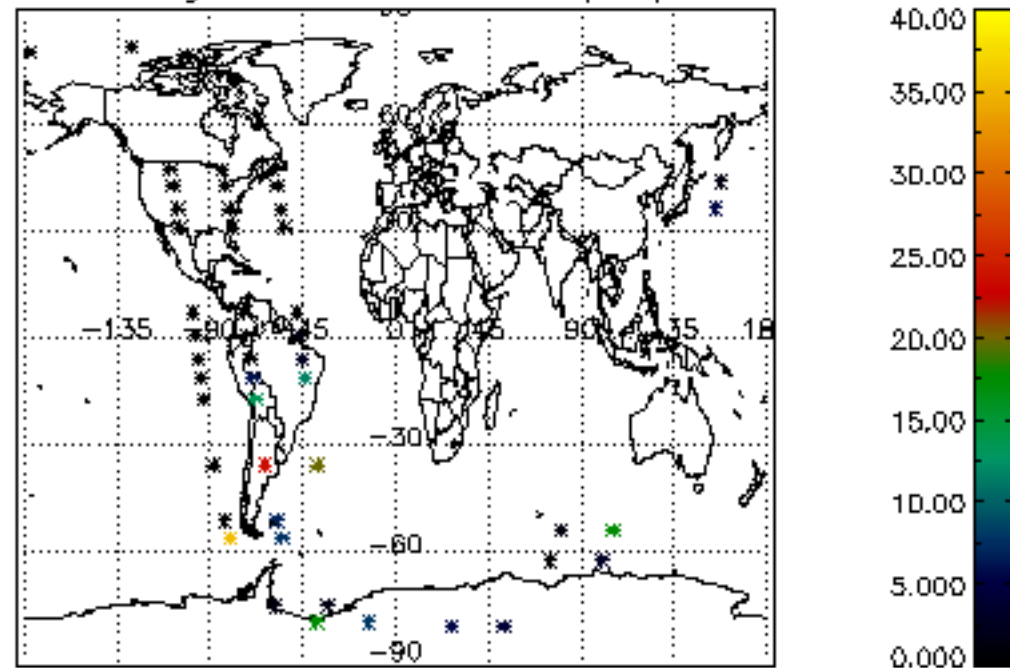
Percentage of datation errors per profile



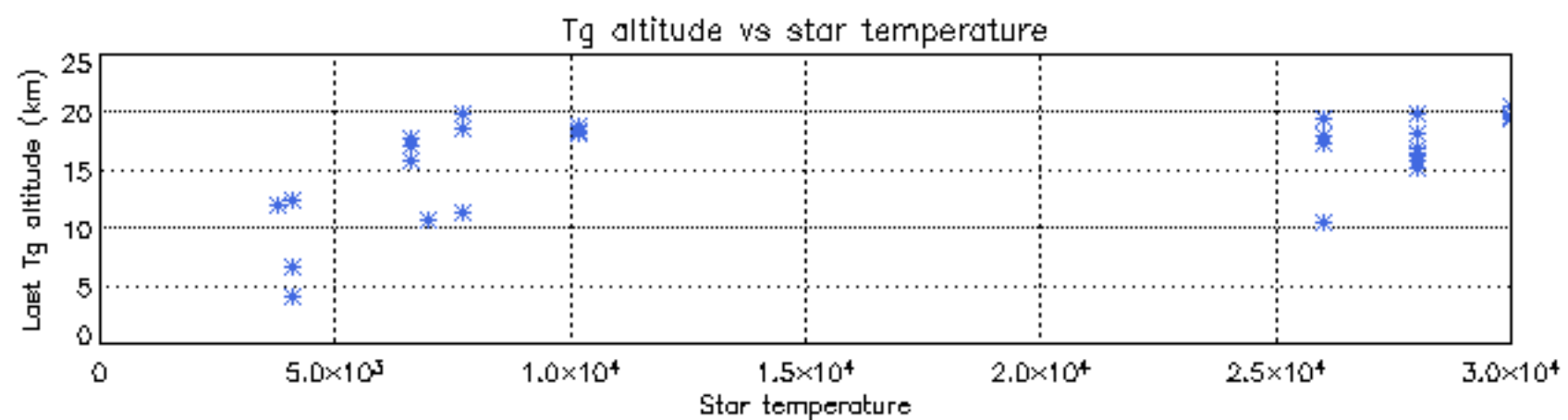
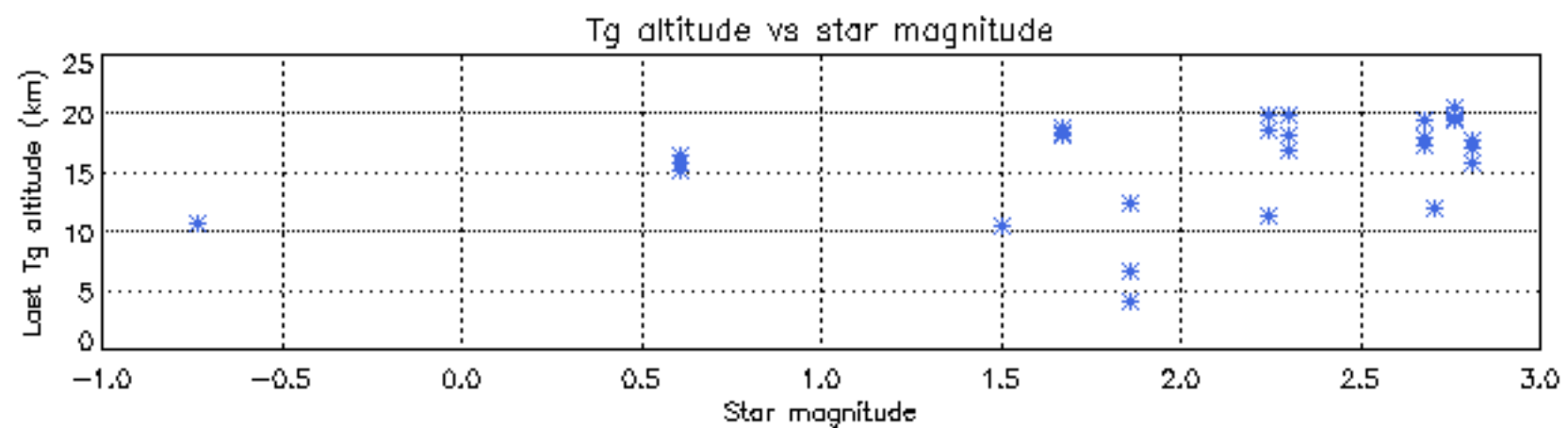
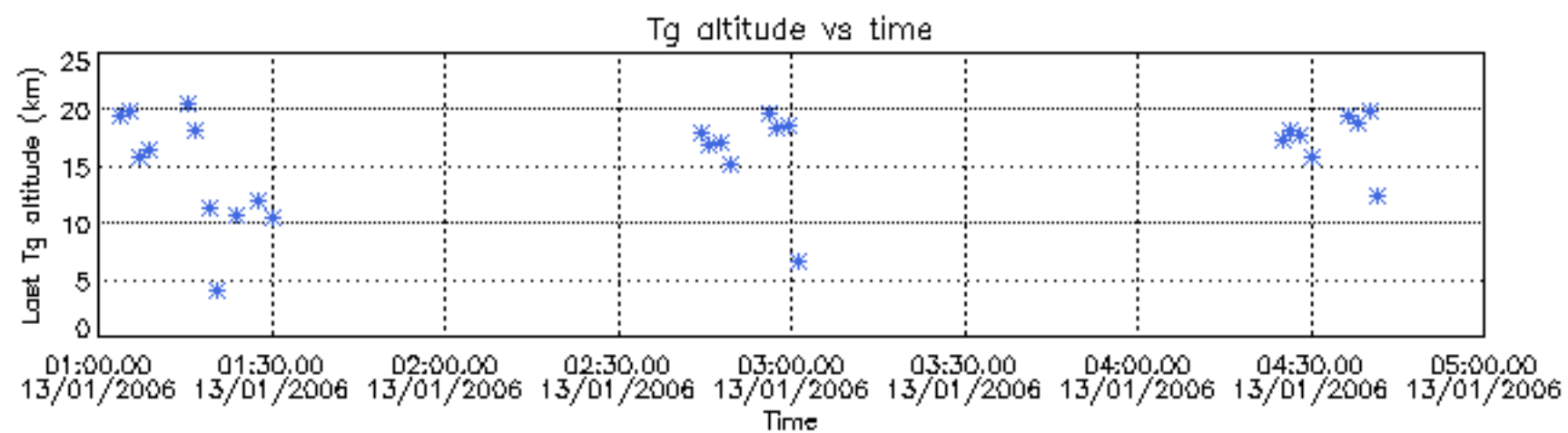
Percentage of star falling outside central band per profile



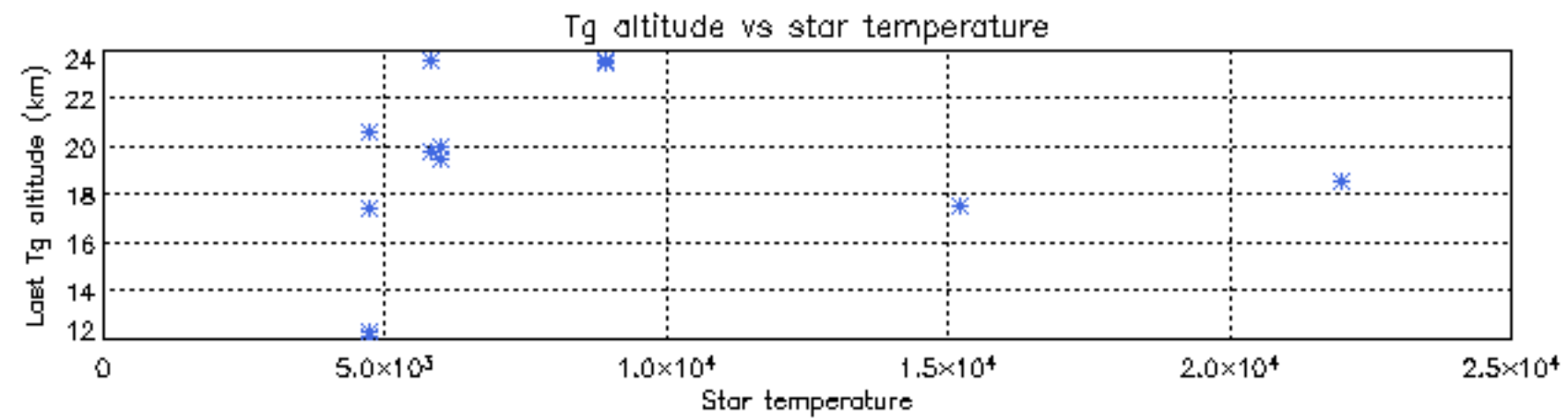
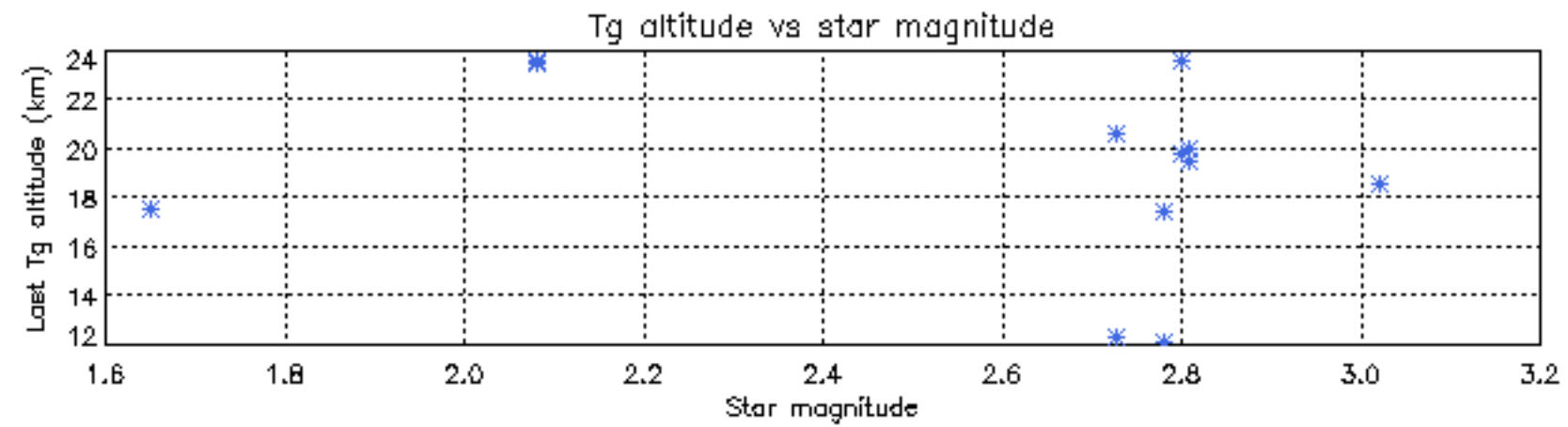
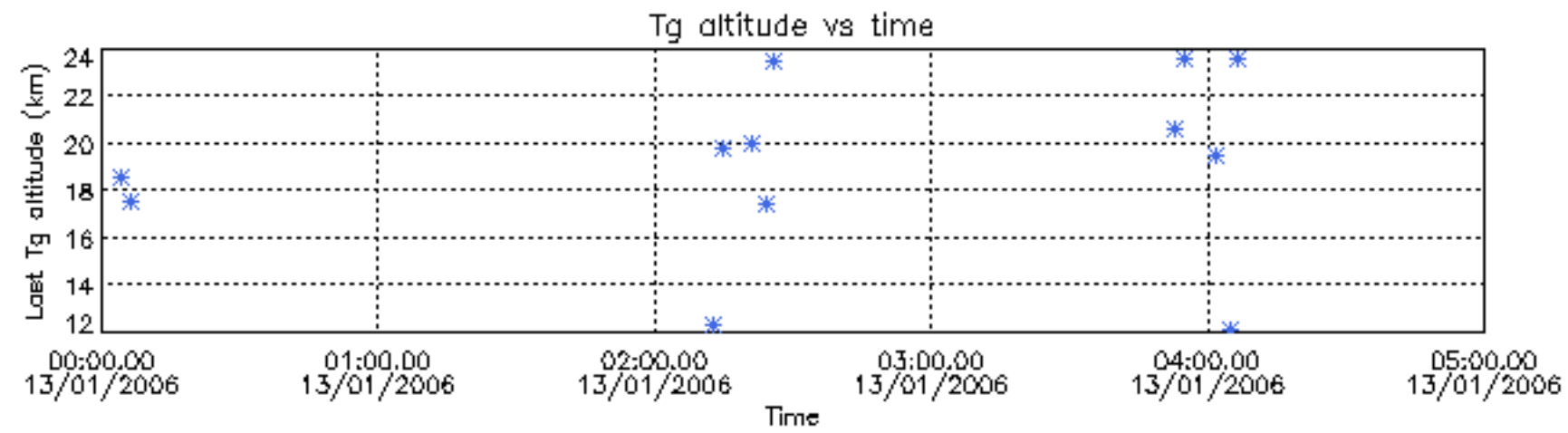
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

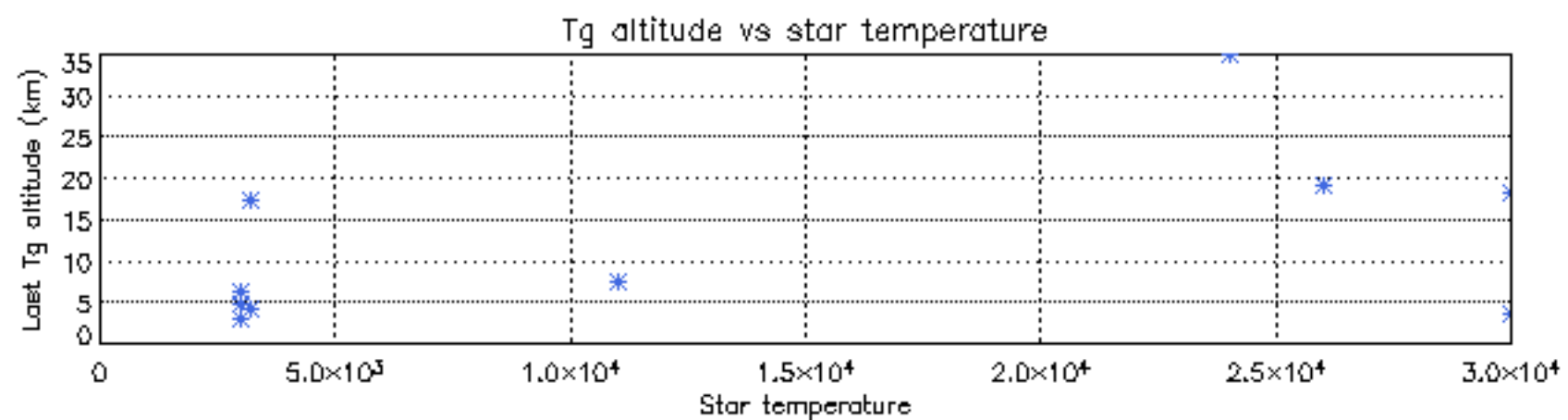
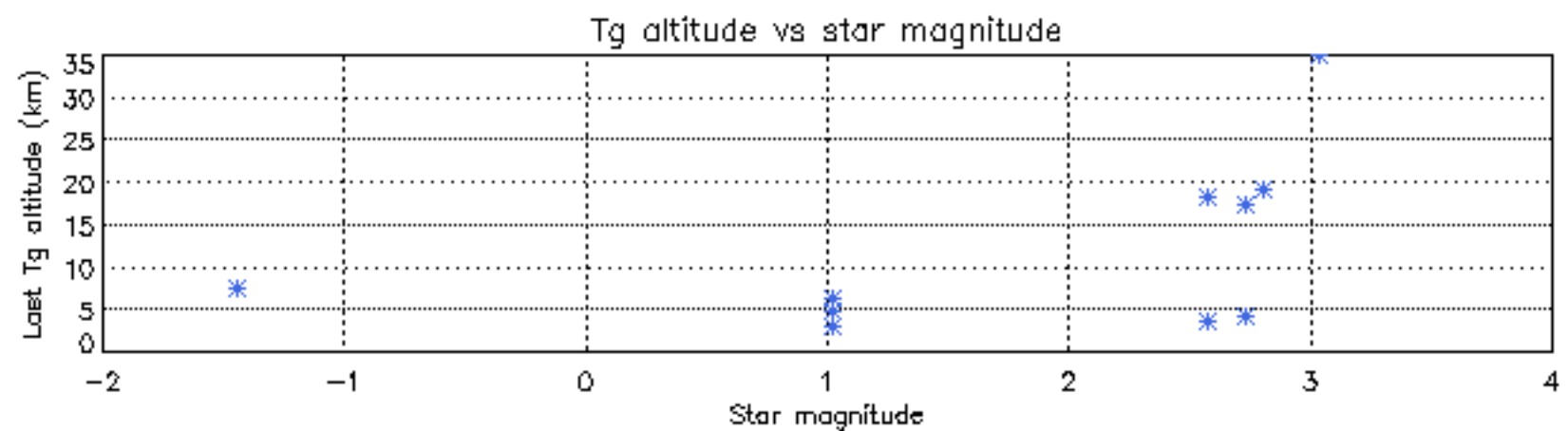
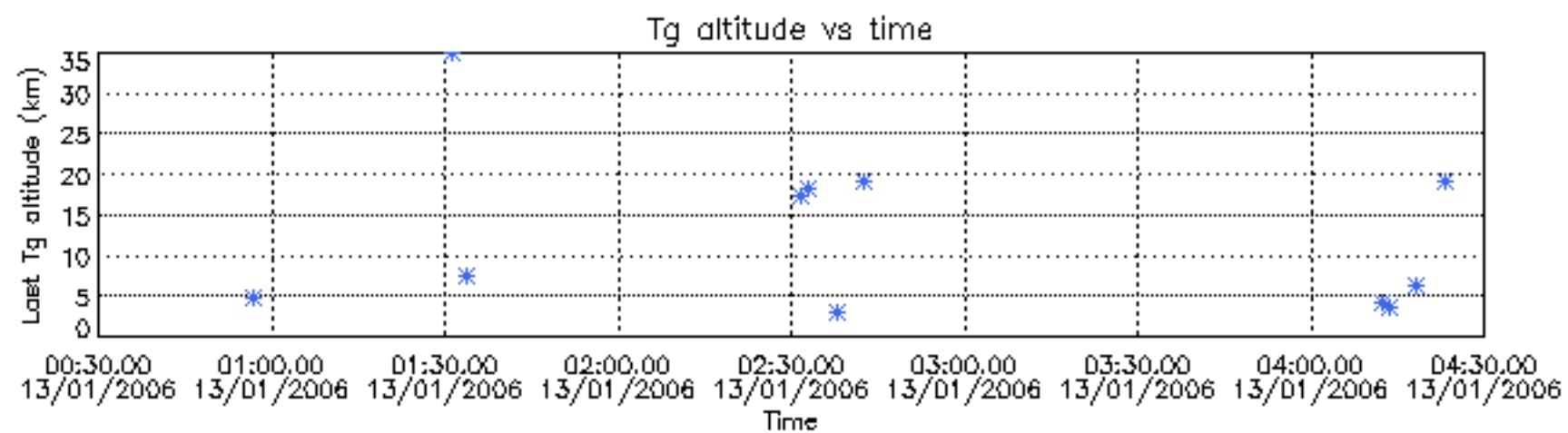


Tangent altitude at which the star is lost





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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 4; 5932.7; 01-JAN-2006 00:41:38; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;20067  
 5; 6035.1; 01-JAN-2006 00:43:20; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;20067  
 6; 6265.7; 01-JAN-2006 00:47:11; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;20067  
 7; 6435.8; 01-JAN-2006 00:50:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20067  
 8; 6583.6; 01-JAN-2006 00:52:29; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;20067  
 9; 6666.8; 01-JAN-2006 00:53:52; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;20067  
 10; 6762.0; 01-JAN-2006 00:55:27; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;20067  
 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  
 14; 7805.8; 01-JAN-2006 01:12:51; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;20067  
 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  
 17; 8237.2; 01-JAN-2006 01:20:02; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 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  
 20; 8648.8; 01-JAN-2006 01:26:54; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;20067  
 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  
 23; 8913.7; 01-JAN-2006 01:31:19; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;20067  
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 27; 10458.0; 01-JAN-2006 01:57:03; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;20067  
 28; 10634.4; 01-JAN-2006 02:00:00; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;20067  
 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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 9; 12703.4; 01-JAN-2006 02:34:29; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;20068  
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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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 9; 2474.7; 03-JAN-2006 20:28:31; Bright; 36.0; 114; 3Iot Aur ; 2.69; 4600;occ; 72; 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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27;10642.4; 04-JAN-2006 00:25:15; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;20109
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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
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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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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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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
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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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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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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; 1832.5; 16-JAN-2006 21:49:46; Dark ; 39.0; 125; 44Iot Ori ; 2.77; 30000;occ; 78; 0;20295
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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
4;-3837.1; 31-JAN-2006 12:21:03; Bright; 36.5; 44; 24Gam Gem ; 1.93; 11000;occ; 73; 0;20504
5;-3727.3; 31-JAN-2006 12:22:53; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;20504
6;-3469.5; 31-JAN-2006 12:27:11; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;20504
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
9;-1936.0; 31-JAN-2006 12:52:44; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;20504
10;-1731.8; 31-JAN-2006 12:56:08; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;20504
11;-1332.2; 31-JAN-2006 13:02:48; Bright; 2.0; 168; 17Zet Aql ; 2.99; 11000;occ; 4; 0;20504
12;-1240.1; 31-JAN-2006 13:04:20; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;20504
13;-1112.4; 31-JAN-2006 13:06:28; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;20504
14; -724.9; 31-JAN-2006 13:12:55; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;20504
15; -560.4; 31-JAN-2006 13:15:40; Dark ; 40.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 81; 0;20504
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
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27; 1078.9; 31-JAN-2006 13:42:59; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;20505
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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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