

# GOMOS Daily Report 12-DEC-2004

## 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	14DEC2004 11:28:23

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (12DEC2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (13DEC2004 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	2

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

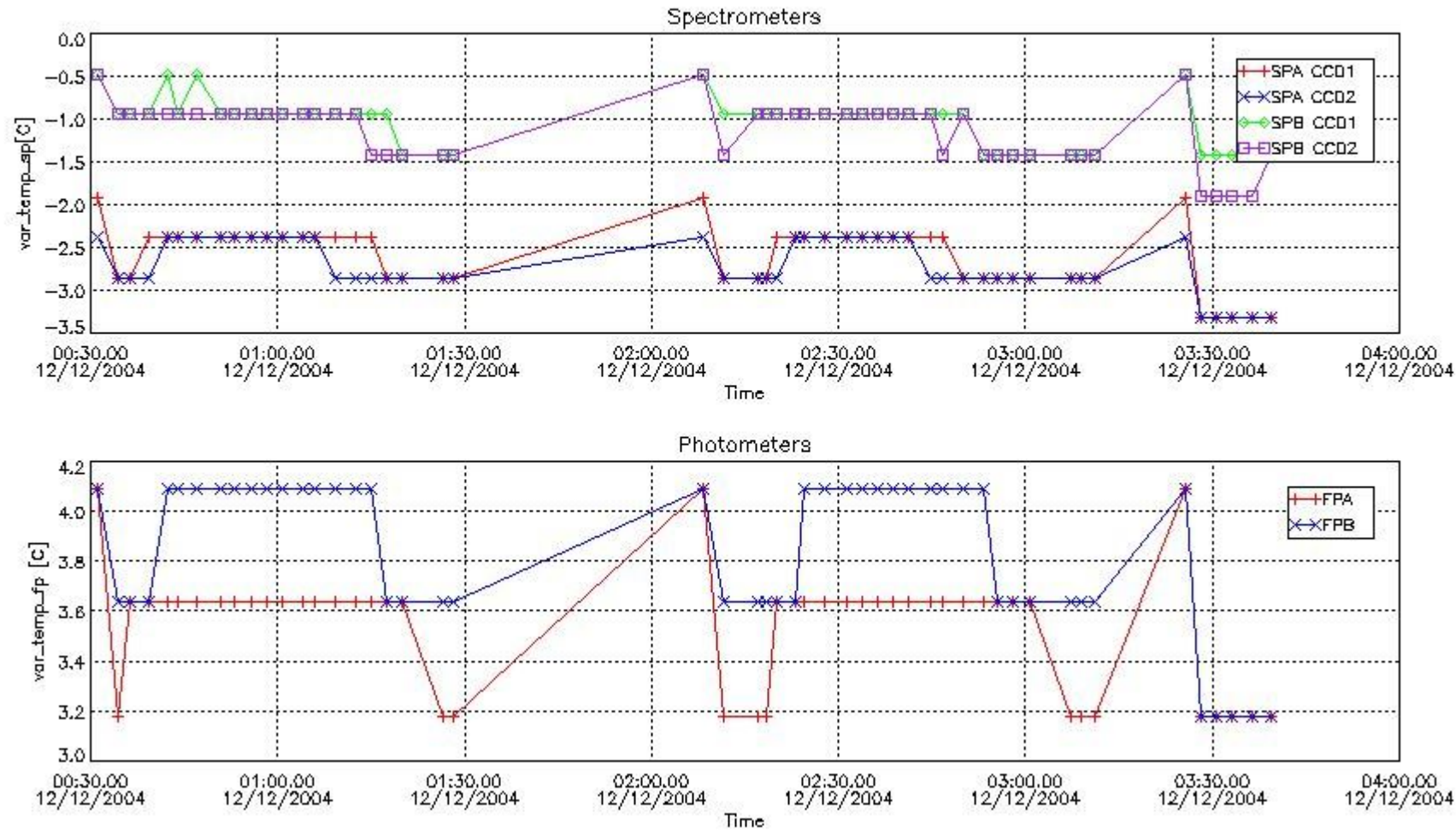
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20041212_003101_000000532032_00474_14556_0000.N1	12-DEC-2004 00:31:01	Twilight	52.500	15	67Alp Vir	0.97600	28000.	105	14556	Yes
2	GOM_TRA_1PNPDE20041212_003429_000000462032_00474_14556_0001.N1	12-DEC-2004 00:34:29	Twilight	46.000	169	46Gam Hya	2.9910	4700.0	92	14556	No
3	GOM_TRA_1PNPDE20041212_003624_000000452032_00474_14556_0002.N1	12-DEC-2004 00:36:24	Twilight	44.500	54	5The Cen	2.0550	4500.0	89	14556	No
4	GOM_TRA_1PNPDE20041212_003927_000000432032_00474_14556_0003.N1	12-DEC-2004 00:39:27	Twilight	43.000	95	Zet Cen	2.5450	26000.	86	14556	No
5	GOM_TRA_1PNPDE20041212_004224_000000442032_00474_14556_0004.N1	12-DEC-2004 00:42:24	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	14556	No
6	GOM_TRA_1PNPDE20041212_004354_000000512032_00475_14557_0005.N1	12-DEC-2004 00:43:54	Dark	51.000	20	Bet Cru	1.2530	30000.	102	14557	No
7	GOM_TRA_1PNPDE20041212_004709_000000482032_00475_14557_0006.N1	12-DEC-2004 00:47:09	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	14557	No
8	GOM_TRA_1PNPDE20041212_005044_000000412032_00475_14557_0007.N1	12-DEC-2004 00:50:44	Dark	40.500	29	Bet Car	1.6720	10200.	81	14557	No
9	GOM_TRA_1PNPDE20041212_005307_000000482032_00475_14557_0008.N1	12-DEC-2004 00:53:07	Dark	47.500	41	Eps Car	1.8600	4100.0	95	14557	No
10	GOM_TRA_1PNPDE20041212_005545_000000522032_00475_14557_0009.N1	12-DEC-2004 00:55:45	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	14557	No
11	GOM_TRA_1PNPDE20041212_005809_000000562032_00475_14557_0010.N1	12-DEC-2004 00:58:09	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	14557	No
12	GOM_TRA_1PNPDE20041212_010044_000000612032_00475_14557_0011.N1	12-DEC-2004 01:00:44	Dark	60.500	117	Pi Pup	2.7060	3800.0	121	14557	No
13	GOM_TRA_1PNPDE20041212_010407_000000592032_00475_14557_0012.N1	12-DEC-2004 01:04:07	Dark	58.500	23	21Eps CMa	1.5020	26000.	117	14557	No
14	GOM_TRA_1PNPDE20041212_010600_000000592032_00475_14557_0013.N1	12-DEC-2004 01:06:00	Dark	59.000	179	24Omi2CMa	3.0320	24000.	118	14557	No
15	GOM_TRA_1PNPDE20041212_010916_000000792032_00475_14557_0014.N1	12-DEC-2004 01:09:16	Twilight	79.000	1	9Alp CMa	-1.4400	11000.	158	14557	No
16	GOM_TRA_1PNPDE20041212_011235_000000532032_00475_14557_0015.N1	12-DEC-2004 01:12:35	Bright	52.500	7	19Bet Ori	0.10000	14000.	105	14557	No
17	GOM_TRA_1PNPDE20041212_011458_000000552032_00475_14557_0016.N1	12-DEC-2004 01:14:58	Bright	54.500	30	46Eps Ori	1.6940	30000.	109	14557	No
18	GOM_TRA_1PNPDE20041212_011724_000000532032_00475_14557_0017.N1	12-DEC-2004 01:17:24	Bright	52.500	27	24Gam Ori	1.6360	26000.	105	14557	No
19	GOM_TRA_1PNPDE20041212_012002_000000532032_00475_14557_0018.N1	12-DEC-2004 01:20:02	Bright	53.000	13	87Alp Tau	0.86700	3800.0	106	14557	No
20	GOM_TRA_1PNPDE20041212_012636_000000372032_00475_14557_0019.N1	12-DEC-2004 01:26:36	Bright	37.000	149	45Eps Per	2.8880	30000.	74	14557	No
21	GOM_TRA_1PNPDE20041212_012814_000000402032_00475_14557_0020.N1	12-DEC-2004 01:28:14	Bright	39.500	73	57Gam1And	2.2600	13100.	79	14557	No
22	GOM_TRA_1PNPDE20041212_020808_000000952032_00475_14557_0000.N1	12-DEC-2004 02:08:08	Twilight	95.000	62	94Bet Leo	2.1360	9700.0	190	14557	Yes
23	GOM_TRA_1PNPDE20041212_021138_000000512032_00475_14557_0001.N1	12-DEC-2004 02:11:38	Twilight	51.000	15	67Alp Vir	0.97600	28000.	102	14557	No
24	GOM_TRA_1PNPDE20041212_021701_000000462032_00475_14557_0002.N1	12-DEC-2004 02:17:01	Twilight	46.000	54	5The Cen	2.0550	4500.0	92	14557	No
25	GOM_TRA_1PNPDE20041212_021825_000000432032_00475_14557_0003.N1	12-DEC-2004 02:18:25	Twilight	43.000	123	lot Cen	2.7500	10200.	86	14557	No
26	GOM_TRA_1PNPDE20041212_022004_000000392032_00475_14557_0004.N1	12-DEC-2004 02:20:04	Twilight	39.000	95	Zet Cen	2.5450	26000.	78	14557	No
27	GOM_TRA_1PNPDE20041212_022300_000000442032_00475_14557_0005.N1	12-DEC-2004 02:23:00	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	14557	No
28	GOM_TRA_1PNPDE20041212_022431_000000502032_00476_14558_0006.N1	12-DEC-2004 02:24:31	Dark	49.500	20	Bet Cru	1.2530	30000.	99	14558	No
29	GOM_TRA_1PNPDE20041212_022745_000000502032_00476_14558_0007.N1	12-DEC-2004 02:27:45	Dark	49.500	113	Mu Vel	2.6920	5000.0	99	14558	No
30	GOM_TRA_1PNPDE20041212_023120_000000422032_00476_14558_0008.N1	12-DEC-2004 02:31:20	Dark	41.500	29	Bet Car	1.6720	10200.	83	14558	No
31	GOM_TRA_1PNPDE20041212_023344_000000492032_00476_14558_0009.N1	12-DEC-2004 02:33:44	Dark	48.500	41	Eps Car	1.8600	4100.0	97	14558	No
32	GOM_TRA_1PNPDE20041212_023621_000000492032_00476_14558_0010.N1	12-DEC-2004 02:36:21	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	14558	No
33	GOM_TRA_1PNPDE20041212_023846_000000482032_00476_14558_0011.N1	12-DEC-2004 02:38:46	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	14558	No
34	GOM_TRA_1PNPDE20041212_024120_000000602032_00476_14558_0012.N1	12-DEC-2004 02:41:20	Dark	59.500	117	Pi Pup	2.7060	3800.0	119	14558	No
35	GOM_TRA_1PNPDE20041212_024443_000000622032_00476_14558_0013.N1	12-DEC-2004 02:44:43	Dark	61.500	23	21Eps CMa	1.5020	26000.	123	14558	No
36	GOM_TRA_1PNPDE20041212_024636_000000602032_00476_14558_0014.N1	12-DEC-2004 02:46:36	Dark	59.500	179	24Omi2CMa	3.0320	24000.	119	14558	No
37	GOM_TRA_1PNPDE20041212_024952_000000802032_00476_14558_0015.N1	12-DEC-2004 02:49:52	Twilight	80.000	1	9Alp CMa	-1.4400	11000.	160	14558	No
38	GOM_TRA_1PNPDE20041212_025310_000000552032_00476_14558_0016.N1	12-DEC-2004 02:53:10	Bright	55.000	7	19Bet Ori	0.10000	14000.	110	14558	No
39	GOM_TRA_1PNPDE20041212_025534_000000542032_00476_14558_0017.N1	12-DEC-2004 02:55:34	Bright	53.500	30	46Eps Ori	1.6940	30000.	107	14558	No
40	GOM_TRA_1PNPDE20041212_025759_000000542032_00476_14558_0018.N1	12-DEC-2004 02:57:59	Bright	53.500	27	24Gam Ori	1.6360	26000.	107	14558	No
41	GOM_TRA_1PNPDE20041212_030037_000000552032_00476_14558_0019.N1	12-DEC-2004 03:00:37	Bright	55.000	13	87Alp Tau	0.86700	3800.0	110	14558	No
42	GOM_TRA_1PNPDE20041212_030713_000000382032_00476_14558_0020.N1	12-DEC-2004 03:07:13	Bright	38.000	149	45Eps Per	2.8880	30000.	76	14558	No
43	GOM_TRA_1PNPDE20041212_030850_000000412032_00476_14558_0021.N1	12-DEC-2004 03:08:50	Bright	41.000	73	57Gam1And	2.2600	13100.	82	14558	No
44	GOM_TRA_1PNPDE20041212_031102_000000392032_00476_14558_0022.N1	12-DEC-2004 03:11:02	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	14558	No
45	GOM_TRA_1PNPDE20041212_032547_000000402032_00476_14558_0000.N1	12-DEC-2004 03:25:47	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	14558	No
46	GOM_TRA_1PNPDE20041212_032807_000000512032_00476_14558_0001.N1	12-DEC-2004 03:28:07	Bright	50.500	82	48Bet UMa	2.3650	10600.	101	14558	No

47	GOM_TRA_1PNPDE20041212_033035_000000412032_00476_14558_0002.N1	12-DEC-2004 03:30:35	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	14558	No
48	GOM_TRA_1PNPDE20041212_033302_000000382032_00476_14558_0003.N1	12-DEC-2004 03:33:02	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	14558	No
49	GOM_TRA_1PNPDE20041212_033616_000000372032_00476_14558_0004.N1	12-DEC-2004 03:36:16	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	14558	No
50	GOM_TRA_1PNPDE20041212_033924_000000382032_00476_14558_0005.N1	12-DEC-2004 03:39:24	Bright	37.500	83		2.3780	11000.	75	14558	No

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



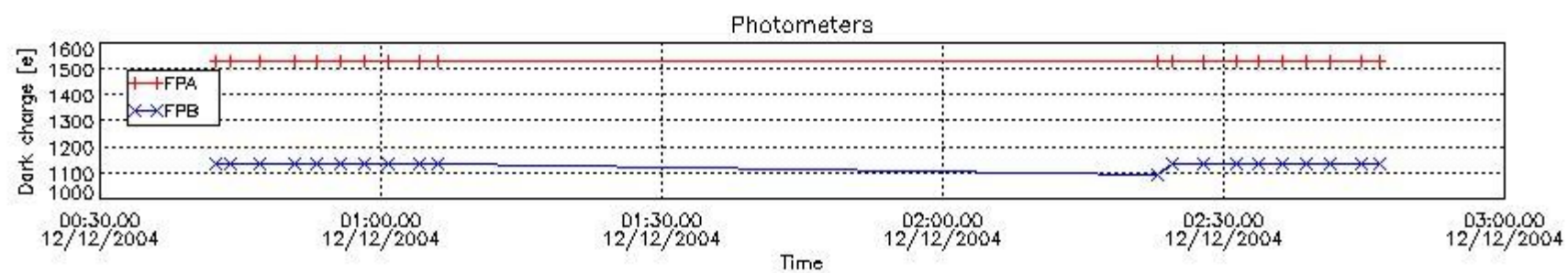
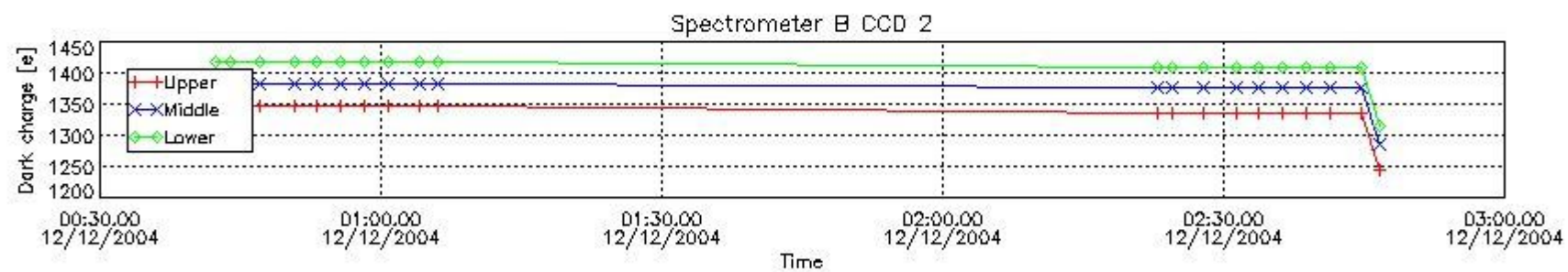
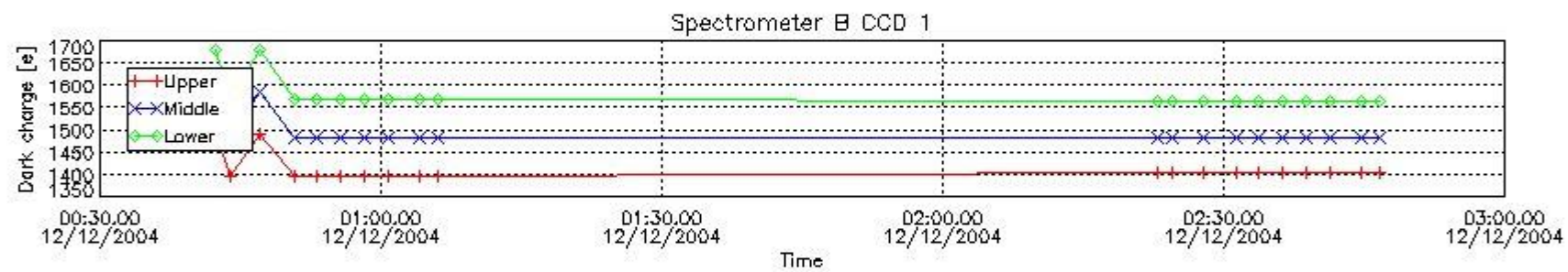
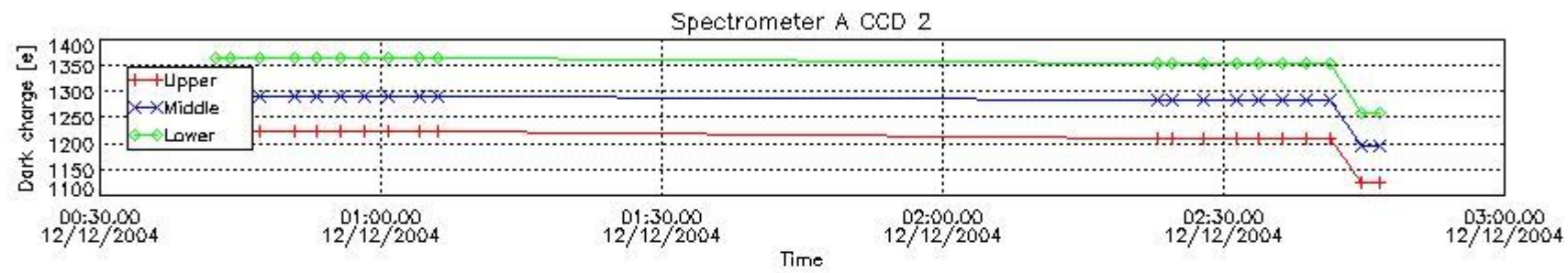
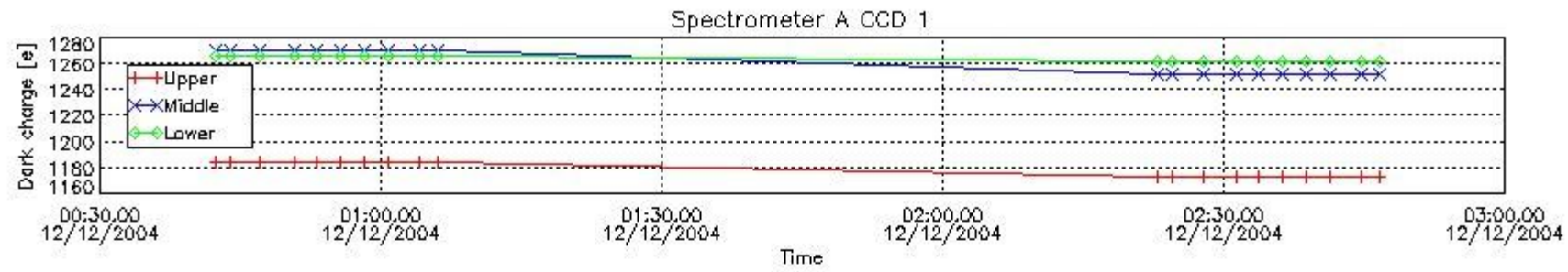
### 4. Overview of dark signal processing per product

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



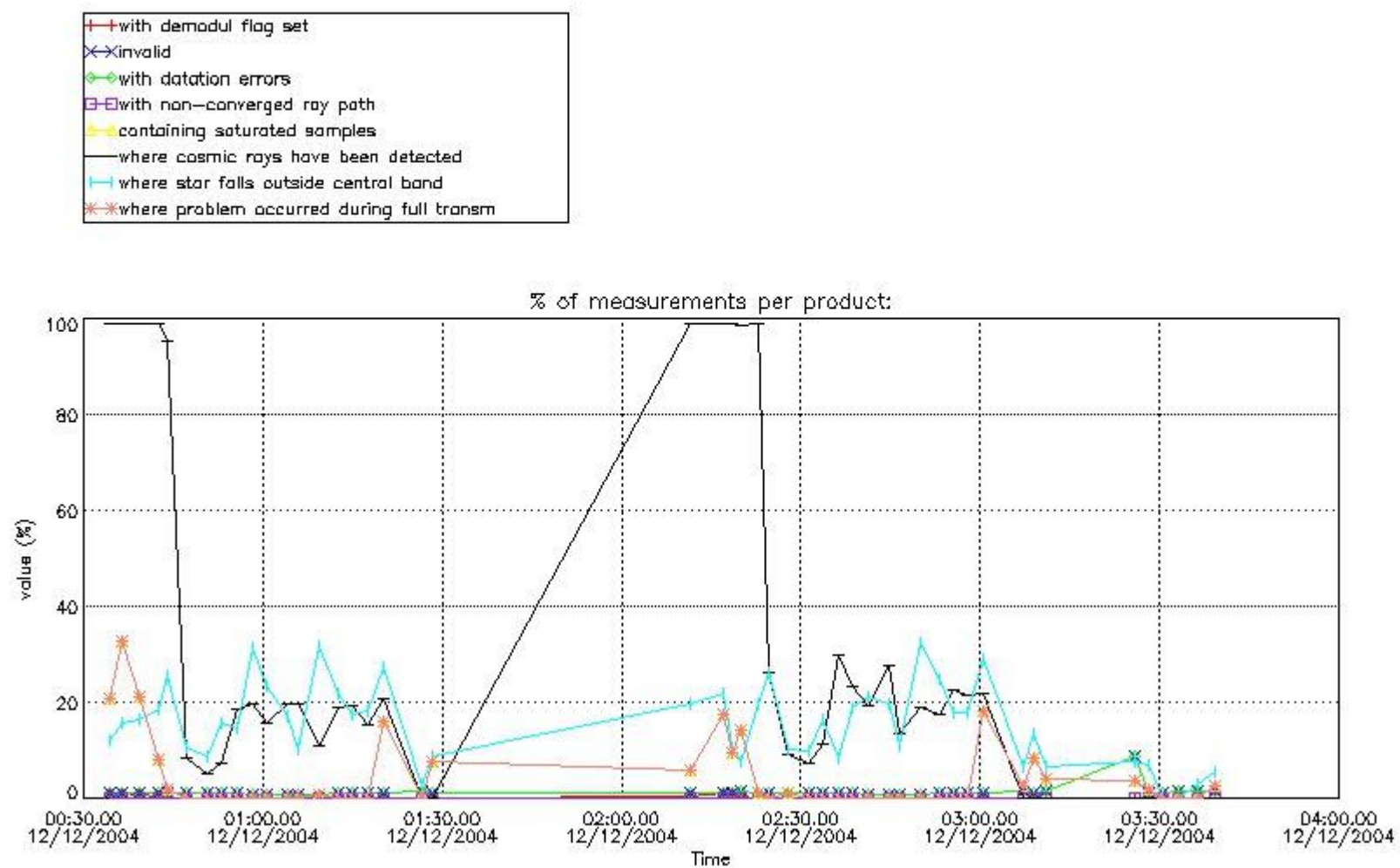
## 5. Demodulation flag and quality information monitoring

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.

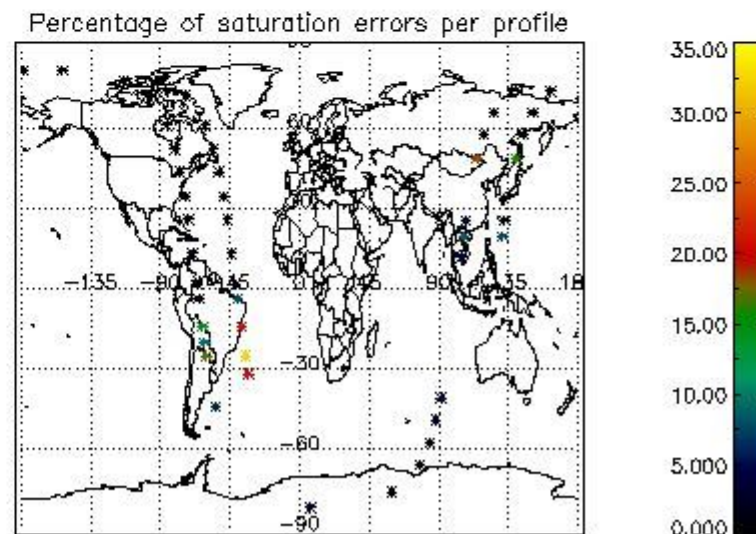
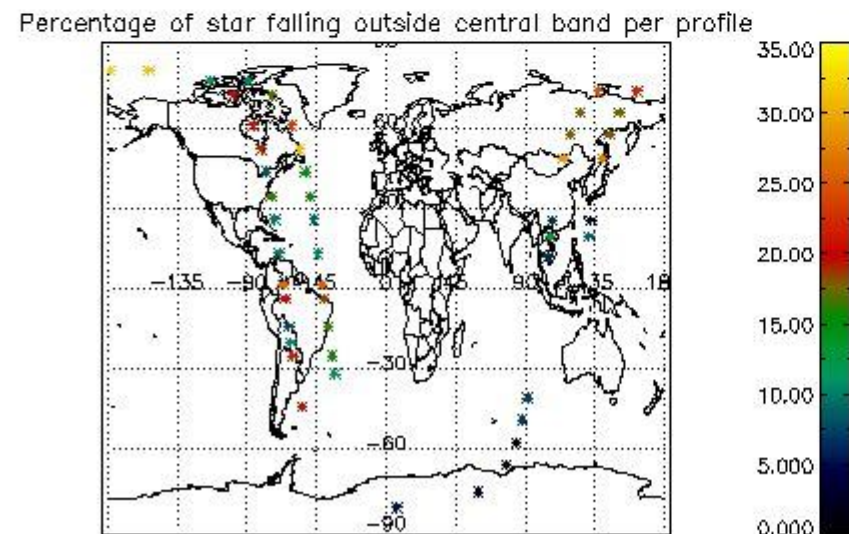
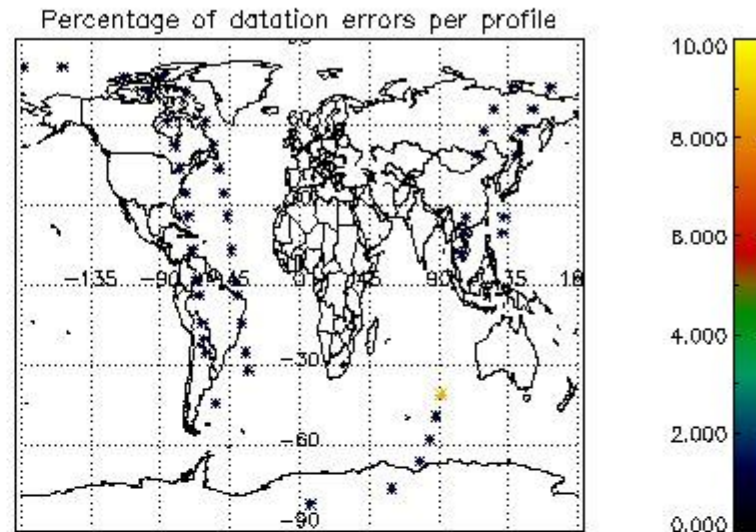
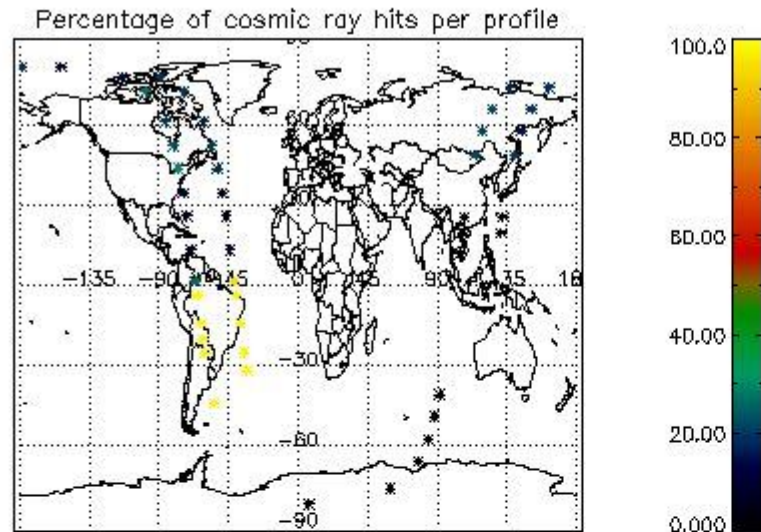
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	27.0833 %
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)



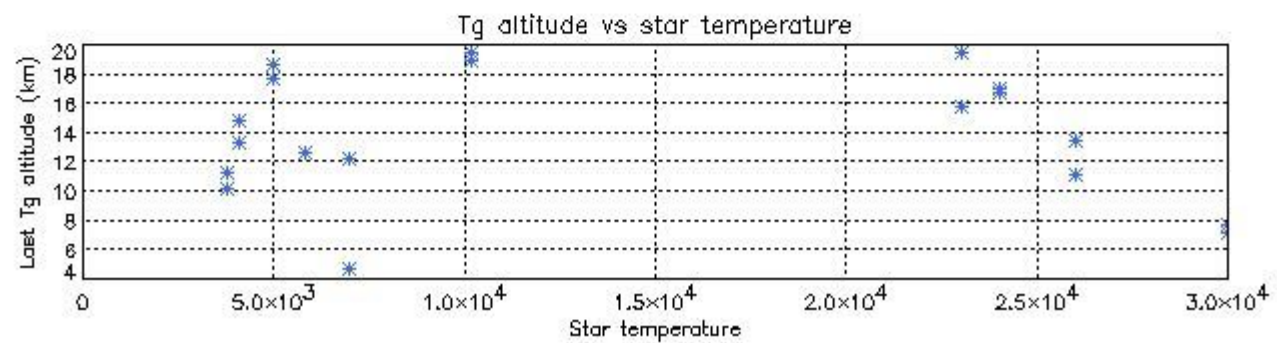
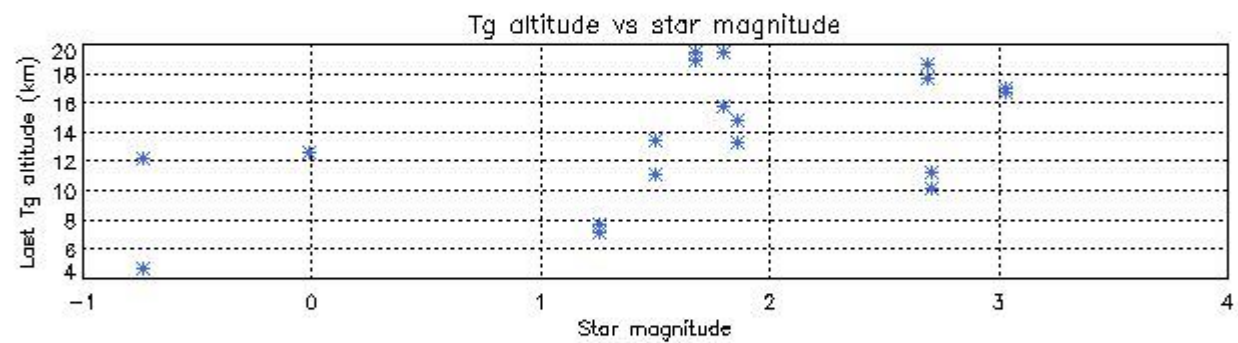
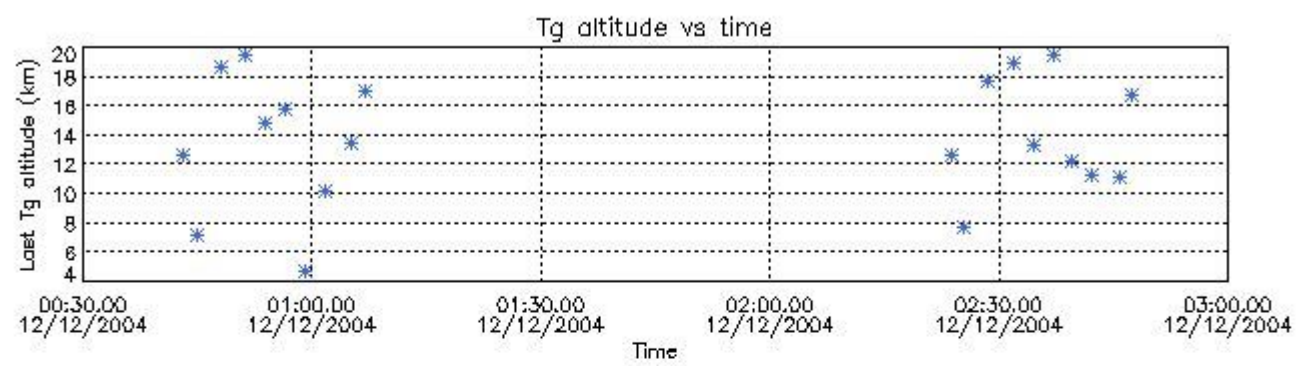
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.728	16.673	12.655
St. deviation:	4.2743	6.3008	4.7563
Maximum:	19.466	25.953	19.206
Minimum:	4.7081	6.9949	5.1596
Number of data:	20.000	19.000	9.0000

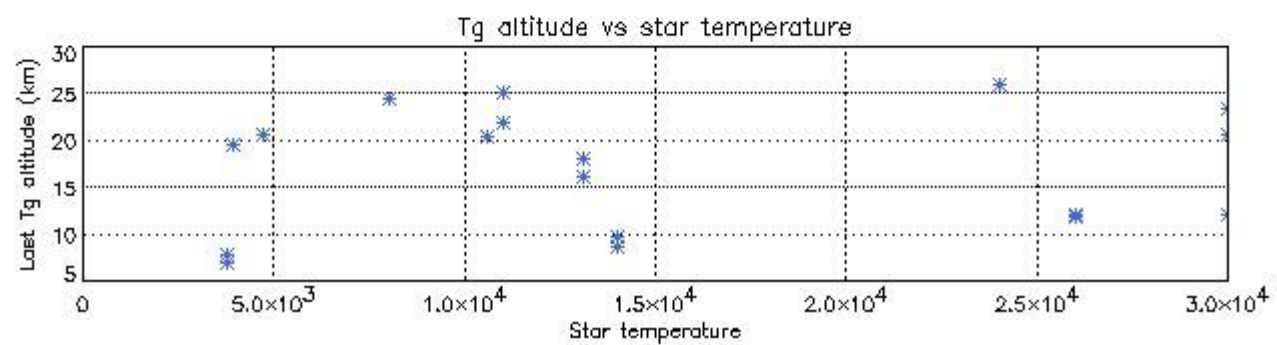
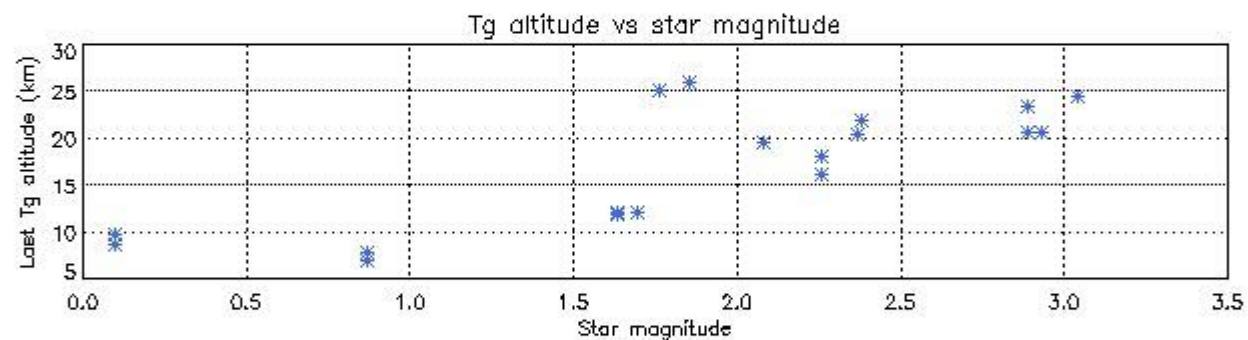
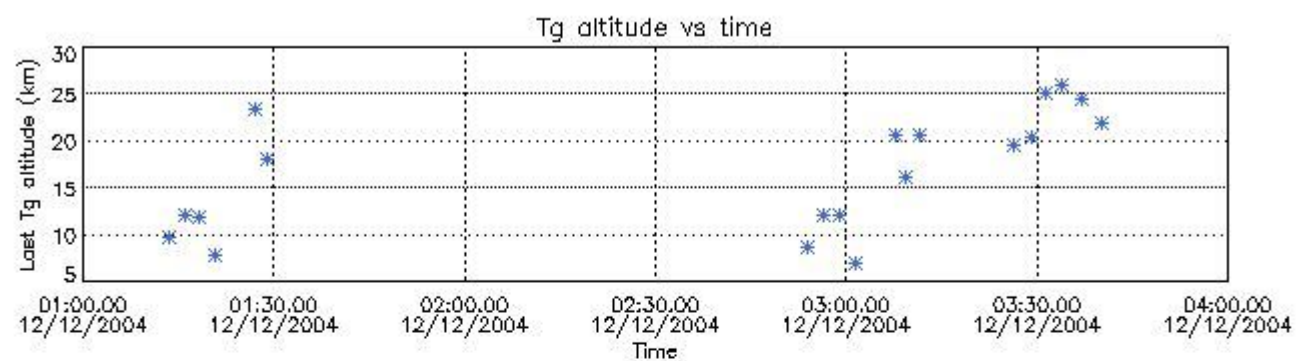
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

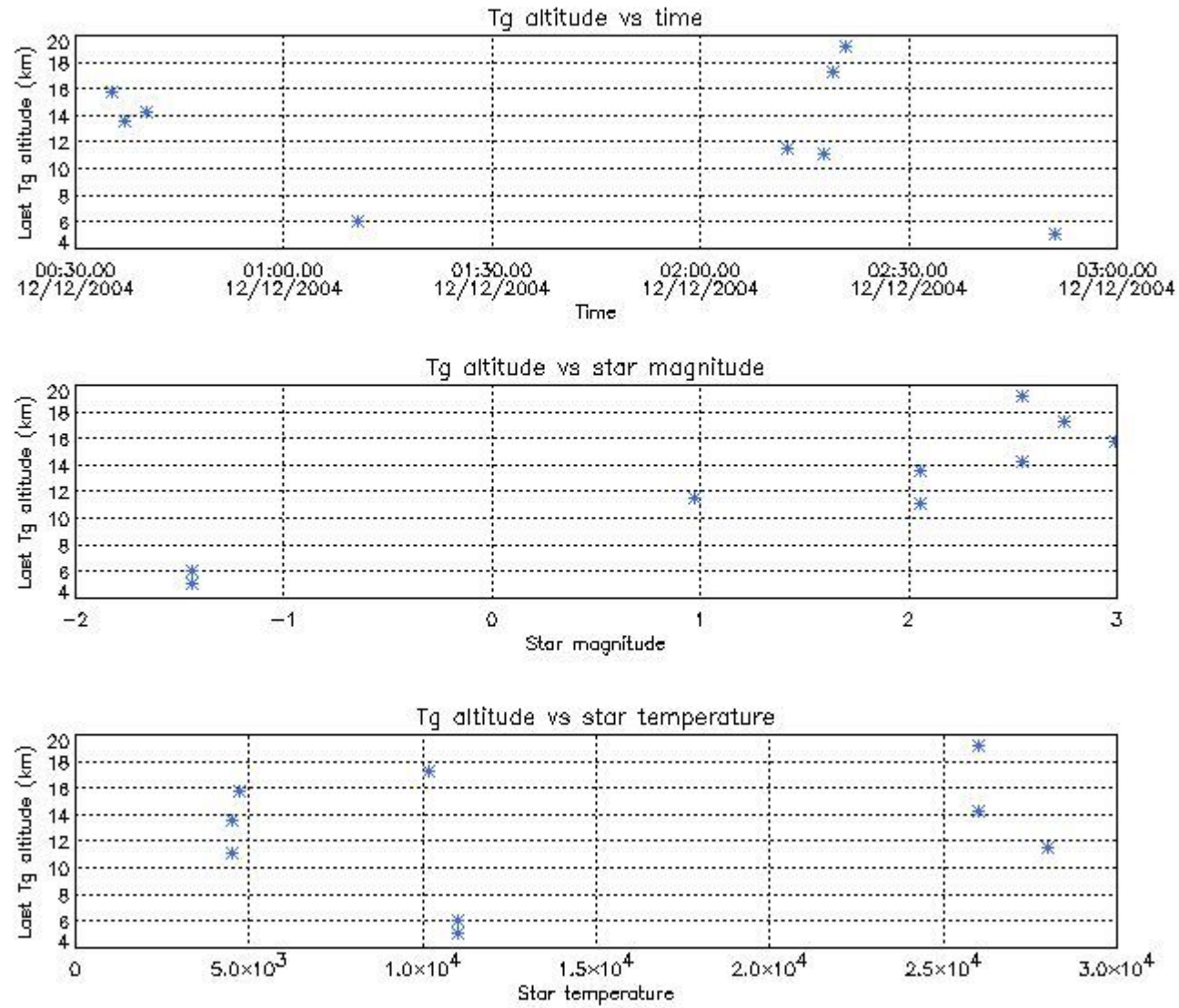
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



## Tangent altitude at which the star is lost



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

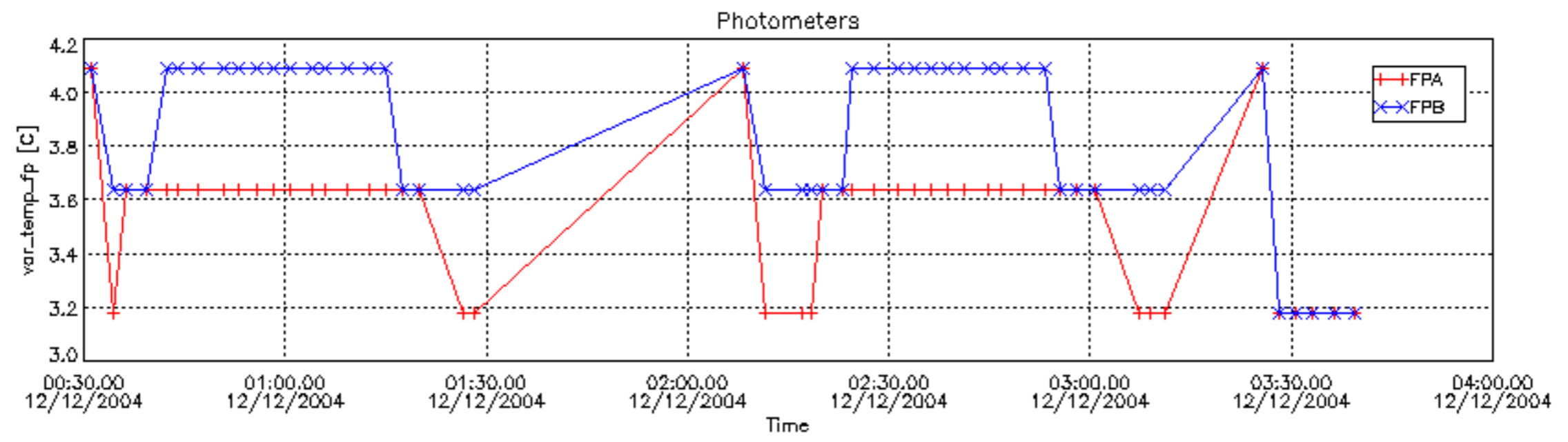
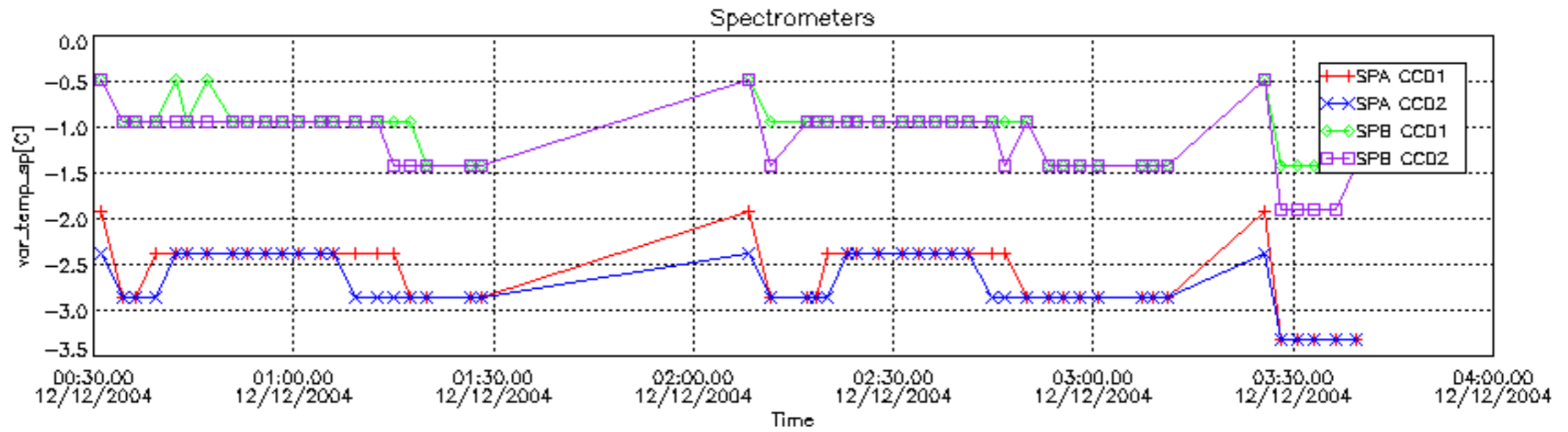
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

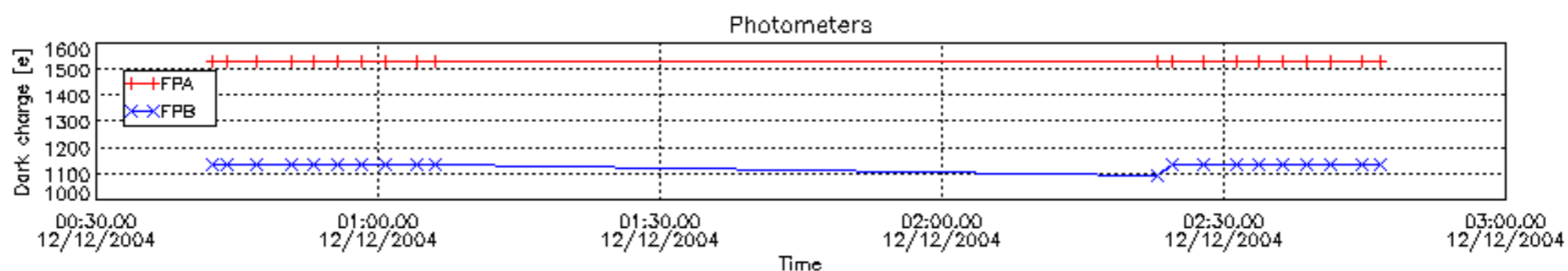
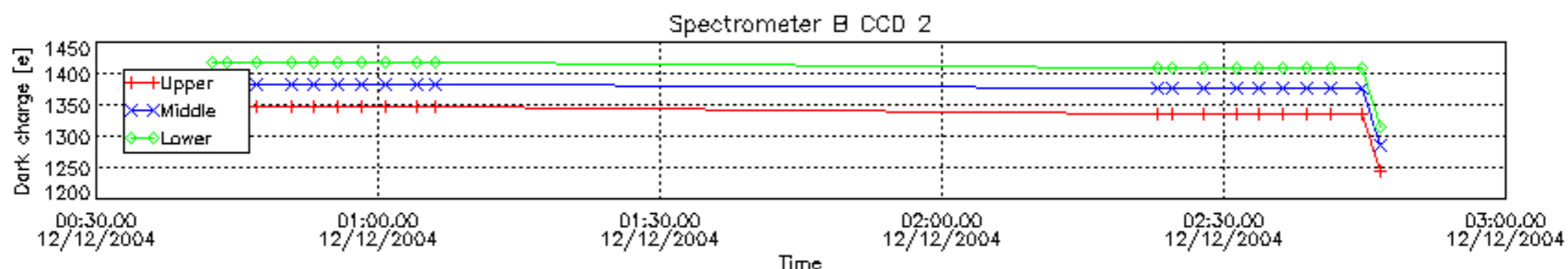
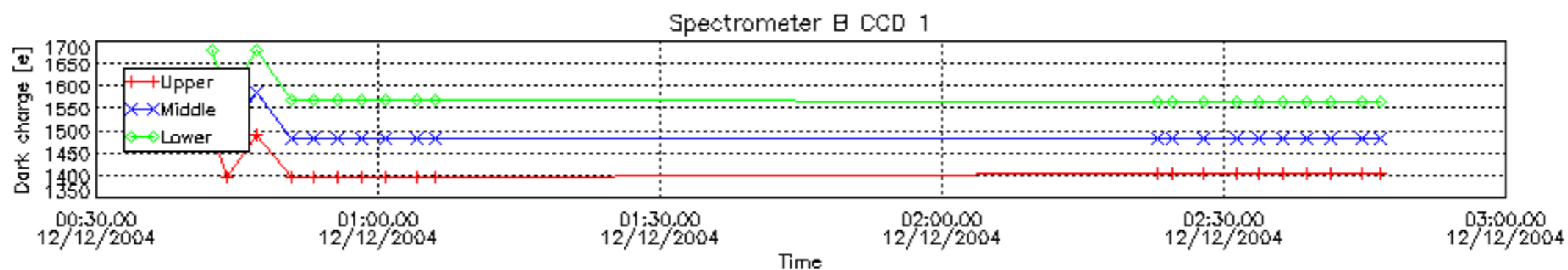
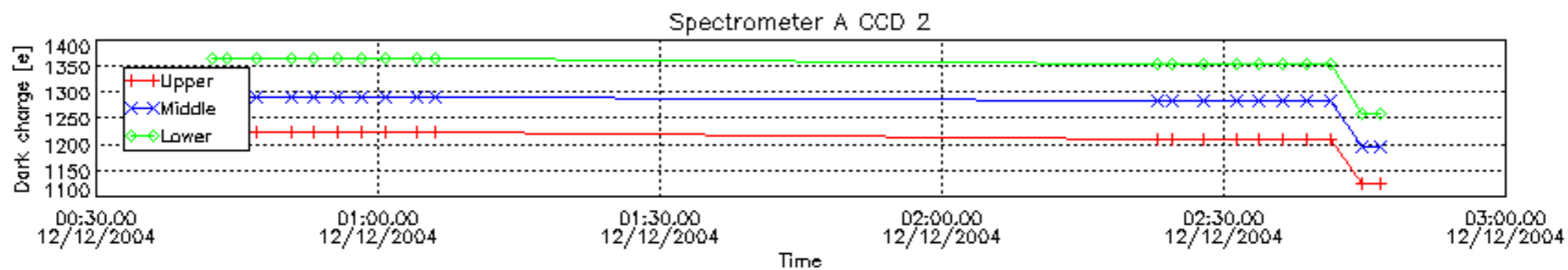
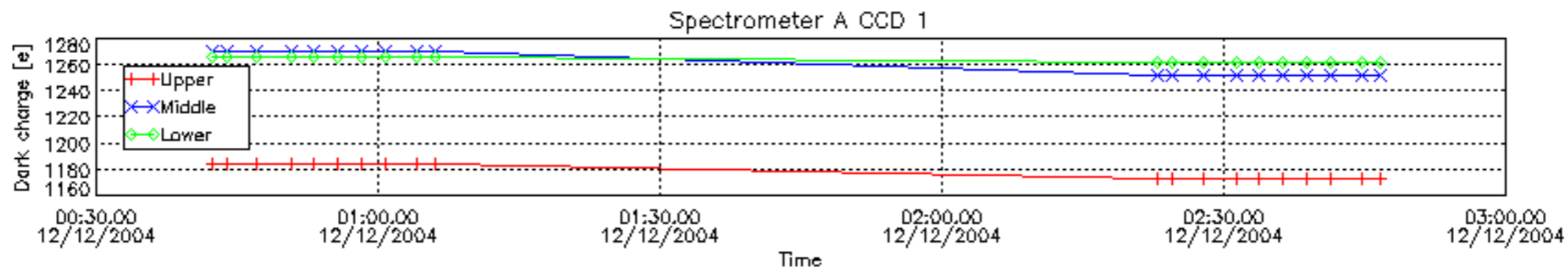
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.1	1447.7	1462.1	1448.2
St. deviation:	4.3217	5.8650	6.2698	8.0685
Maximum:	1506.0	1501.0	1512.0	1518.0
Minimum:	1422.0	1395.0	1442.0	1430.0
Number of data:	25300.	25300.	21300.	21300.

## 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.

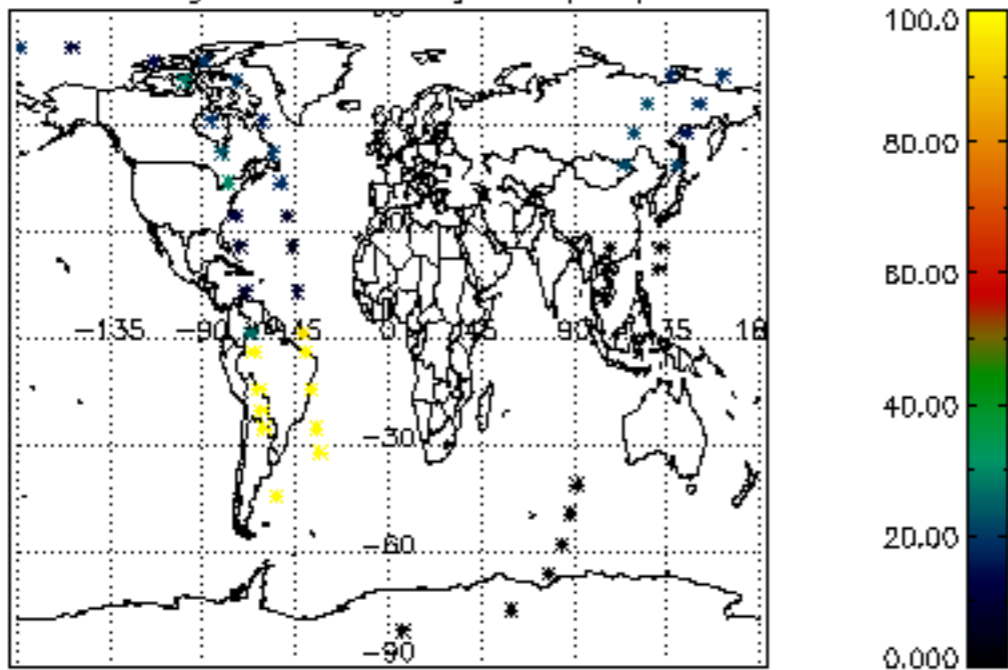
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	12-DEC-2004 00:31:01
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041207_081221_20041205_000000_20100101_000000	1	12-DEC-2004 00:31:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	12-DEC-2004 00:31:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-DEC-2004 00:31:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	12-DEC-2004 00:31:01
ECMWF_FILE	AUX_ECF_AXNECM20041211_060617_20041211_210000_20041212_090000	1	12-DEC-2004 00:31:01
ECMWF_FILE	AUX_ECF_AXNECM20041211_192543_20041212_030000_20041212_150000	45	12-DEC-2004 03:25:47
OPTIONAL_ECMWF_FILE	NOT USED	1	12-DEC-2004 00:31:01
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041212_003533_20041211_194141_20041221_210751	1	12-DEC-2004 00:31:01



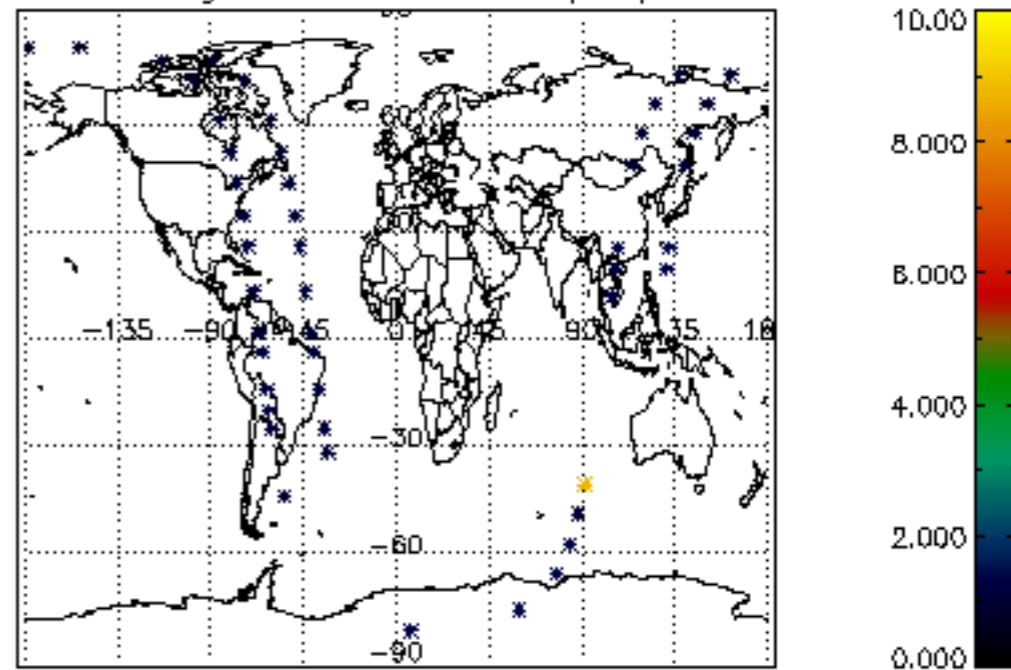




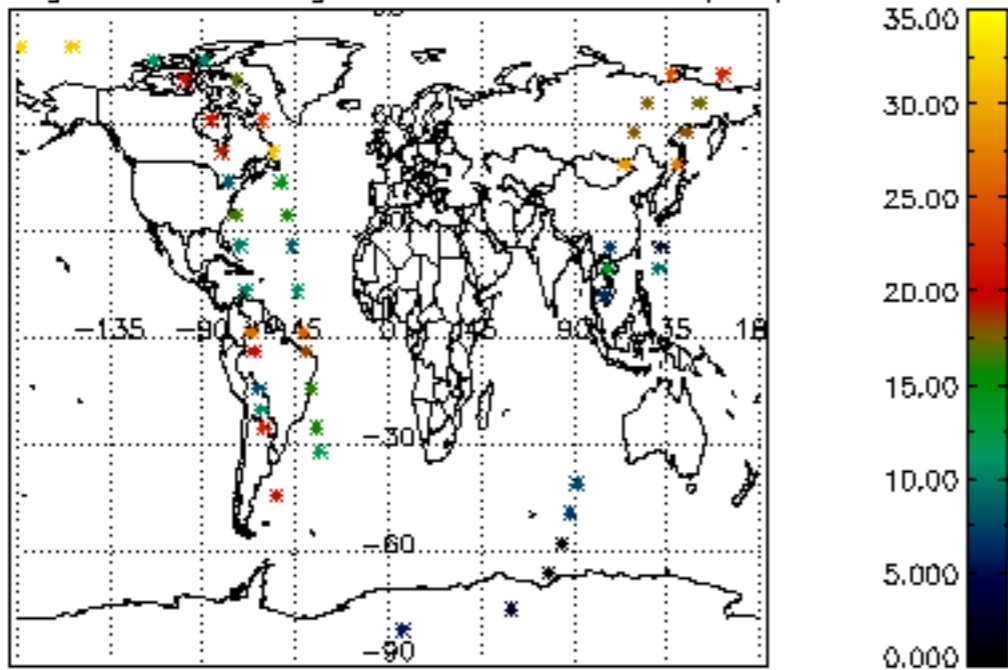
Percentage of cosmic ray hits per profile



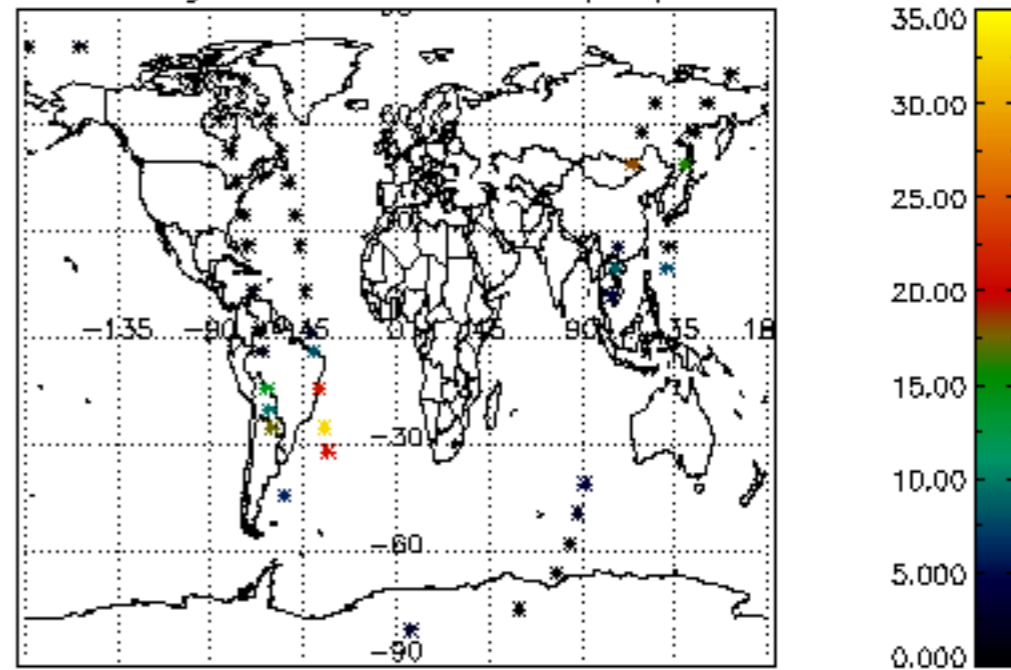
Percentage of datation errors per profile



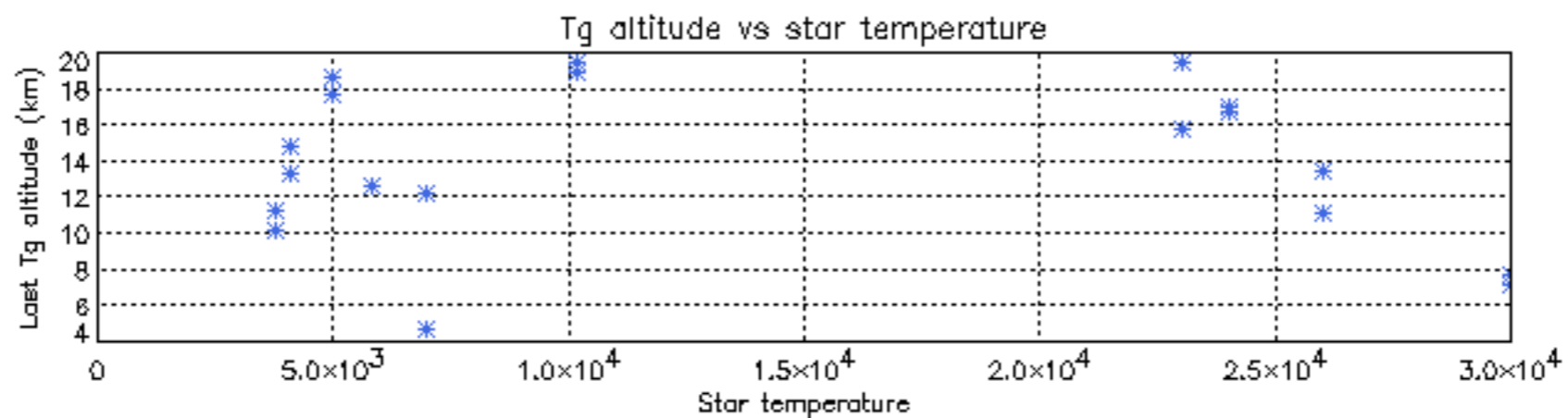
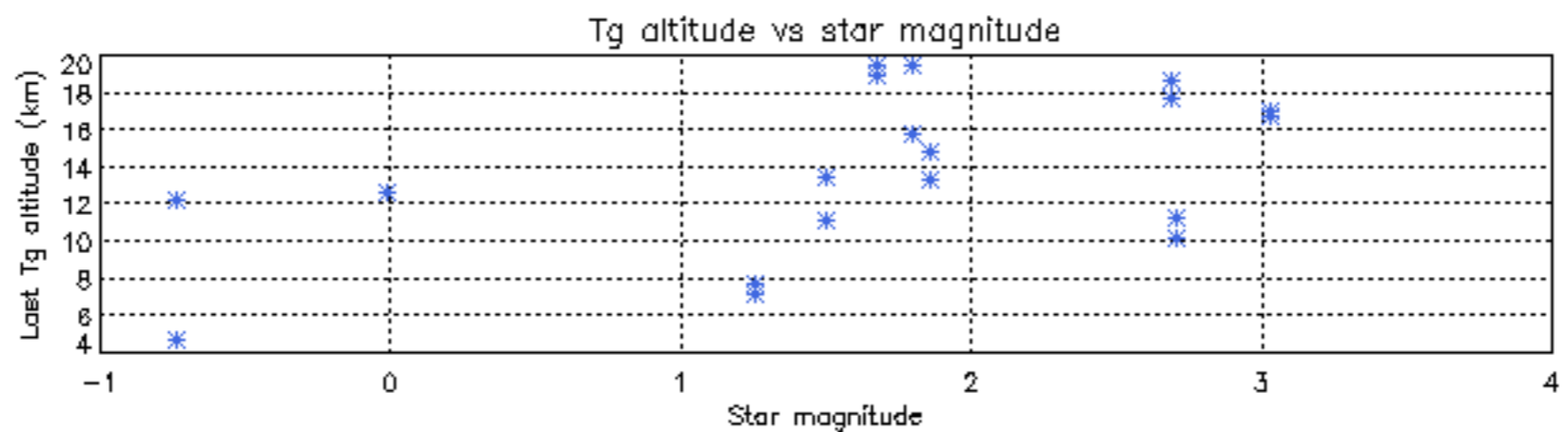
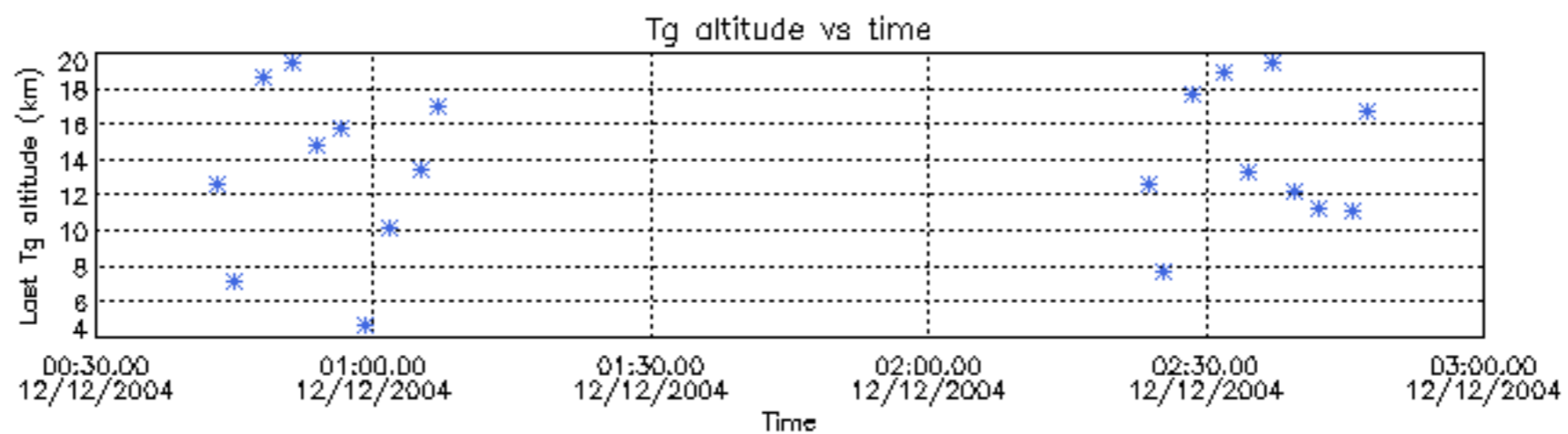
Percentage of star falling outside central band per profile



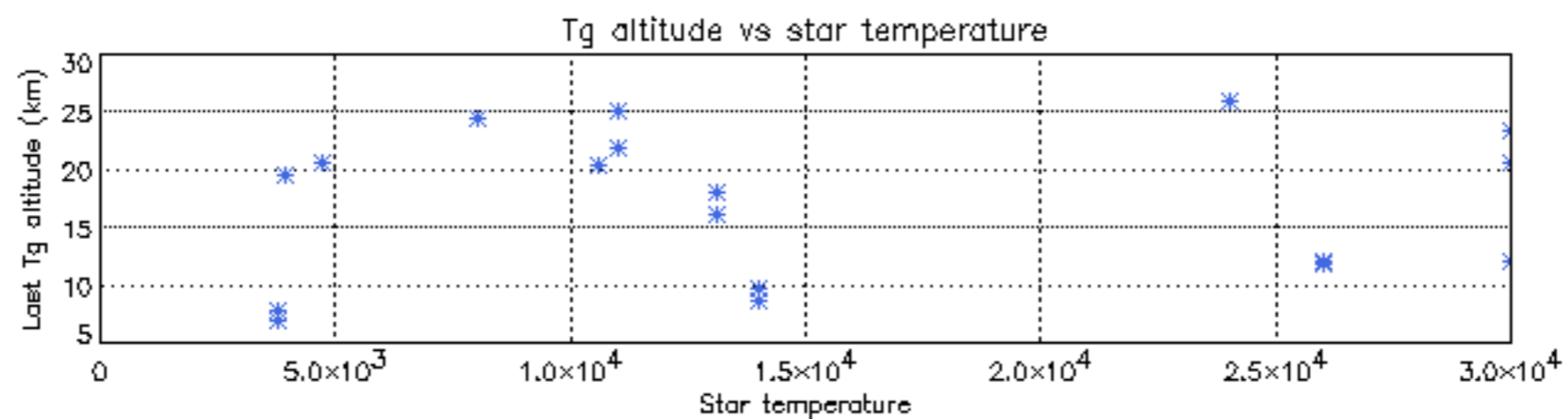
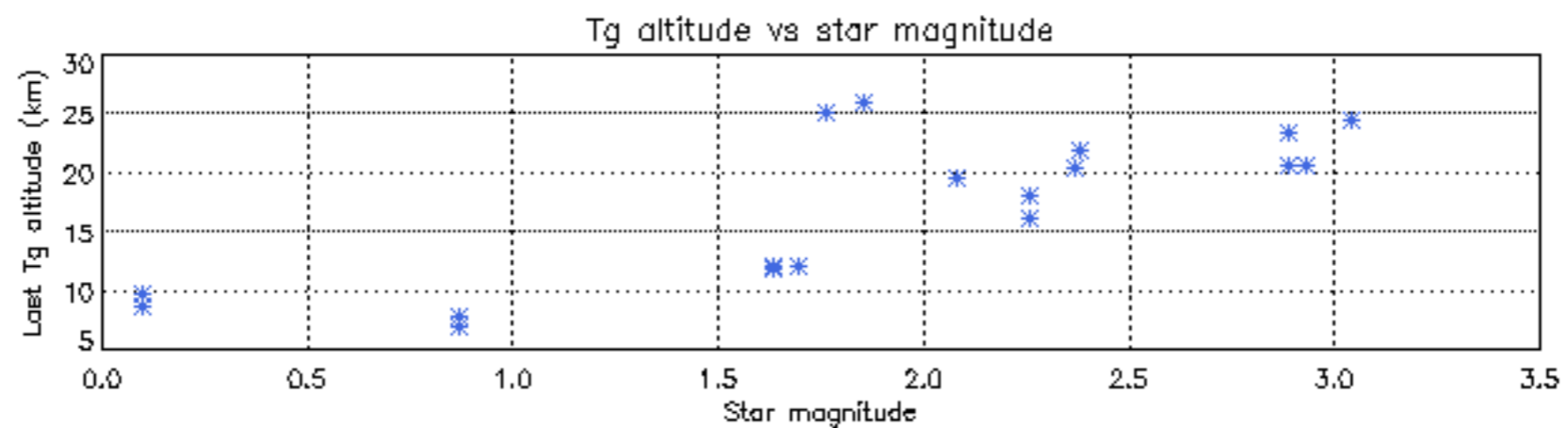
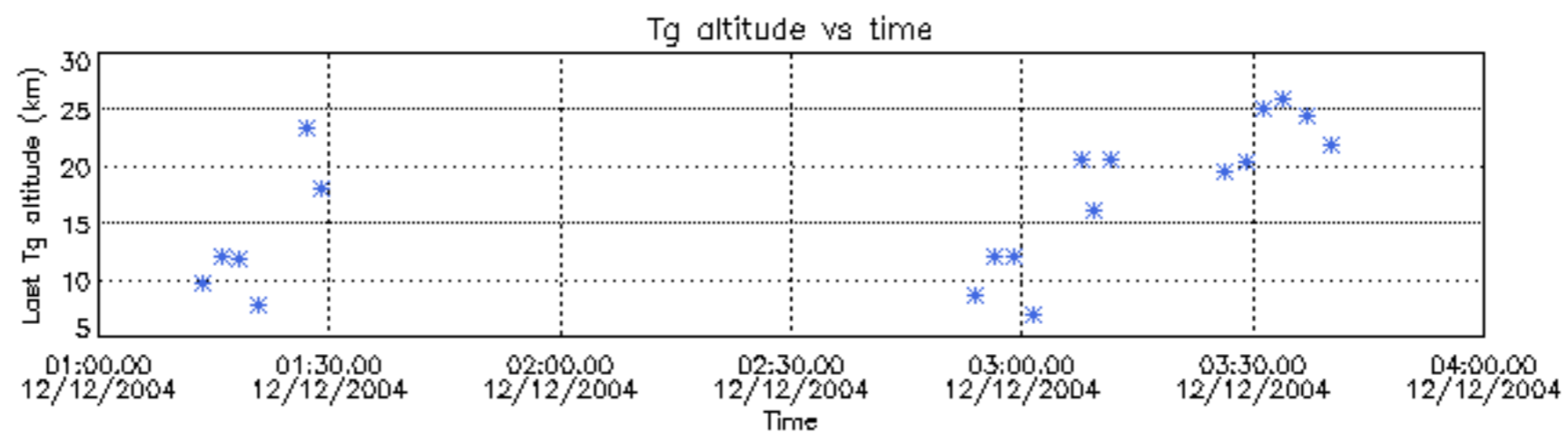
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

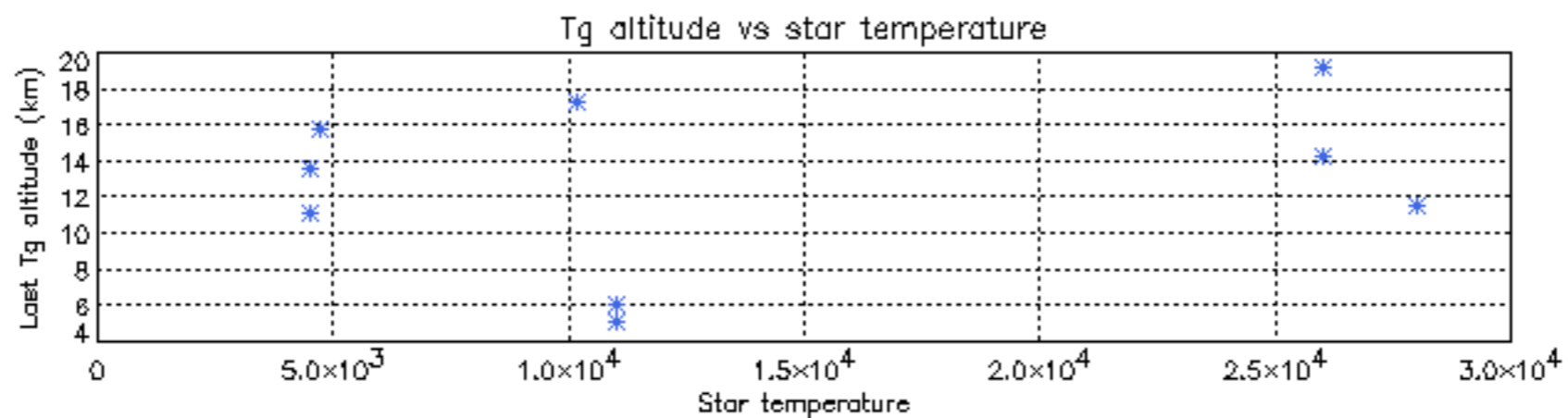
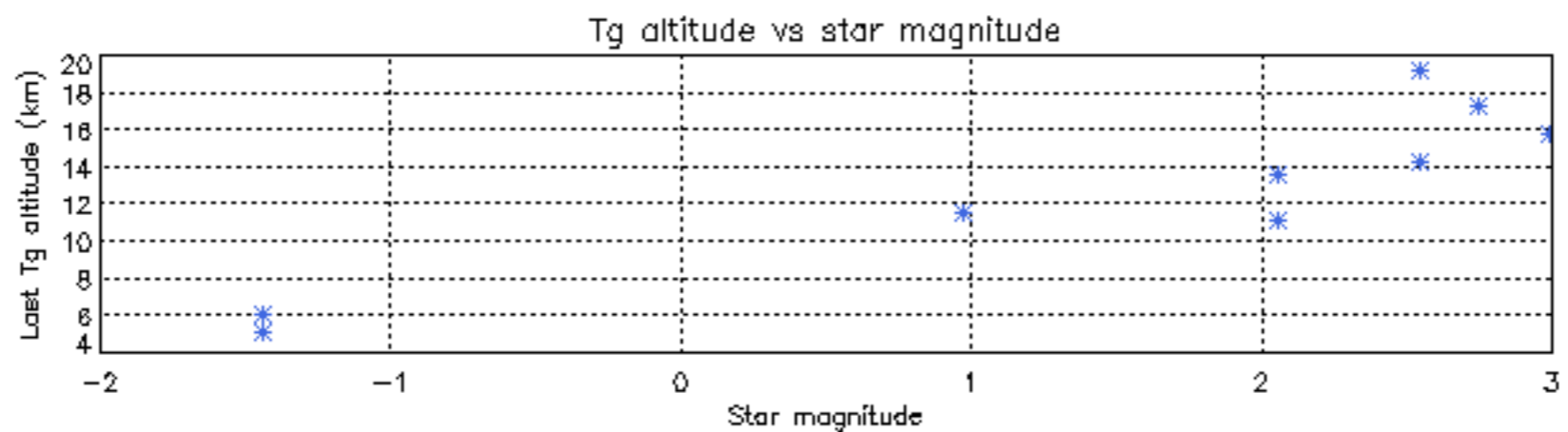
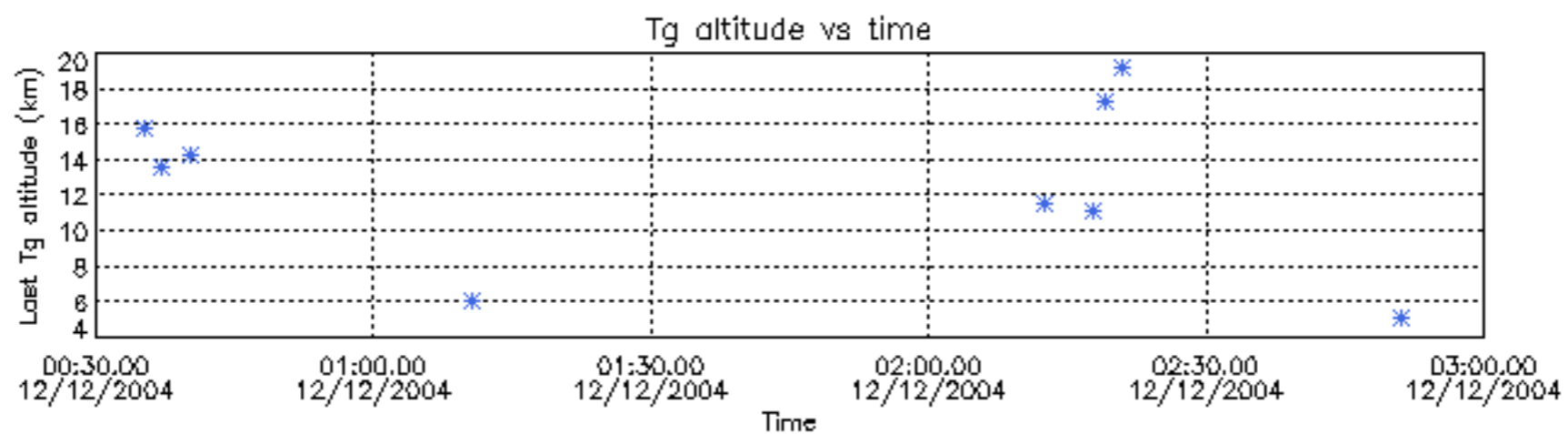


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDE20041201\_012037\_000039862032\_00317\_14399\_1281.N1

1; -532.4; 01-DEC-2004 01:20:37; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;14399  
 2; -173.6; 01-DEC-2004 01:26:36; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;14399  
 3; -74.8; 01-DEC-2004 01:28:15; Dark ; 49.5; 10; Bet Cen ; 0.61; 28000;occ; 99; 0;14399  
 4; 41.1; 01-DEC-2004 01:30:11; Dark ; 45.0; 12; Alp1Cru ; 0.77; 30000;occ; 90; 0;14400  
 5; 205.3; 01-DEC-2004 01:32:55; Dark ; 40.5; 124; The Car ; 2.76; 30000;occ; 81; 0;14400  
 6; 357.9; 01-DEC-2004 01:35:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14400  
 7; 483.9; 01-DEC-2004 01:37:34; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;14400  
 8; 607.3; 01-DEC-2004 01:39:37; Dark ; 55.0; 34; Gam2Vel ; 1.79; 23000;occ; 110; 0;14400  
 9; 806.9; 01-DEC-2004 01:42:57; Dark ; 56.5; 2; Alp Car ; -0.74; 7000;occ; 113; 0;14400  
 10; 920.6; 01-DEC-2004 01:44:50; Dark ; 64.5; 117; Pi Pup ; 2.71; 3800;occ; 129; 0;14400  
 11; 1148.0; 01-DEC-2004 01:48:38; Dark ; 71.0; 23; 21Eps CMA ; 1.50; 26000;occ; 142; 0;14400  
 12; 1277.7; 01-DEC-2004 01:50:47; Dark ; 73.0; 179; 240mi2CMA ; 3.03; 24000;occ; 146; 0;14400  
 13; 1529.6; 01-DEC-2004 01:54:59; Dark ; 107.0; 1; 9Alp CMA ; -1.44; 11000;occ; 214; 0;14400  
 14; 1749.7; 01-DEC-2004 01:58:39; Dark ; 68.0; 7; 19Bet Ori ; 0.10; 14000;occ; 136; 0;14400  
 15; 1929.4; 01-DEC-2004 02:01:39; Dark ; 63.5; 30; 46Eps Ori ; 1.69; 30000;occ; 127; 0;14400  
 16; 2093.2; 01-DEC-2004 02:04:23; Dark ; 63.5; 27; 24Gam Ori ; 1.64; 26000;occ; 127; 0;14400  
 17; 2228.0; 01-DEC-2004 02:06:38; Bright; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;14400  
 18; 2325.2; 01-DEC-2004 02:08:15; Bright; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0;14400  
 19; 2466.9; 01-DEC-2004 02:10:36; Bright; 41.5; 150; 44Zet Per ; 2.89; 28000;occ; 83; 0;14400  
 20; 2600.6; 01-DEC-2004 02:12:50; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;14400  
 21; 2734.5; 01-DEC-2004 02:15:04; Bright; 39.0; 175; 39Del Per ; 3.01; 19400;occ; 78; 0;14400  
 22; 2815.2; 01-DEC-2004 02:16:25; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;14400  
 23; 2957.2; 01-DEC-2004 02:18:47; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;14400  
 24; 3417.2; 01-DEC-2004 02:26:27; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;14400

/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDE20041201\_023107\_000057962032\_00318\_14400\_1282.N1

1; -2338.3; 01-DEC-2004 02:31:07; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;14400  
 2; -2217.7; 01-DEC-2004 02:33:08; Bright; 46.5; 36; 50Alp UMA ; 1.80; 6300;occ; 93; 0;14400  
 3; -2121.5; 01-DEC-2004 02:34:44; Bright; 46.5; 82; 48Bet UMA ; 2.37; 10600;occ; 93; 0;14400  
 4; -2024.4; 01-DEC-2004 02:36:21; Bright; 43.0; 32; 77Eps UMA ; 1.76; 11000;occ; 86; 0;14400  
 5; -1898.3; 01-DEC-2004 02:38:27; Bright; 37.0; 39; 85Eta UMA ; 1.85; 24000;occ; 74; 0;14400  
 6; -1724.8; 01-DEC-2004 02:41:21; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104; 0;14400  
 7; -1545.5; 01-DEC-2004 02:44:20; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;14400  
 8; -1390.8; 01-DEC-2004 02:46:55; Bright; 35.0; 3; 16Alp Boo ; -0.05; 4250;occ; 70; 0;14400  
 9; -1171.0; 01-DEC-2004 02:50:35; Bright; 74.5; 96; 68Del Leo ; 2.56; 9300;occ; 149; 0;14400  
 10; -914.8; 01-DEC-2004 02:54:51; Bright; 62.0; 121; 29Gam Vir ; 2.74; 7200;occ; 124; 0;14400  
 11; -629.1; 01-DEC-2004 02:59:36; Dark ; 46.5; 163; 7Del Crv ; 2.94; 11000;occ; 93; 0;14400  
 12; -531.4; 01-DEC-2004 03:01:14; Dark ; 48.0; 106; 9Bet Crv ; 2.65; 5600;occ; 96; 0;14400  
 13; -413.6; 01-DEC-2004 03:03:12; Dark ; 40.0; 123; Tot Cen ; 2.75; 10200;occ; 80; 0;14400  
 14; -172.8; 01-DEC-2004 03:07:13; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;14400  
 15; -74.7; 01-DEC-2004 03:08:51; Dark ; 48.5; 10; Bet Cen ; 0.61; 28000;occ; 97; 0;14400  
 16; 206.2; 01-DEC-2004 03:13:32; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;14401  
 17; 360.9; 01-DEC-2004 03:16:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14401  
 18; 484.6; 01-DEC-2004 03:18:10; Dark ; 49.0; 41; Eps Car ; 1.86; 4100;occ; 98; 0;14401  
 19; 608.3; 01-DEC-2004 03:20:14; Dark ; 59.5; 34; Gam2Vel ; 1.79; 23000;occ; 119; 0;14401  
 20; 807.5; 01-DEC-2004 03:23:33; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;14401  
 21; 919.8; 01-DEC-2004 03:25:25; Dark ; 67.5; 117; Pi Pup ; 2.71; 3800;occ; 135; 0;14401  
 22; 1148.8; 01-DEC-2004 03:29:14; Dark ; 69.0; 23; 21Eps CMA ; 1.50; 26000;occ; 138; 0;14401  
 23; 1277.8; 01-DEC-2004 03:31:23; Dark ; 73.5; 179; 240mi2CMA ; 3.03; 24000;occ; 147; 0;14401  
 24; 1529.8; 01-DEC-2004 03:35:35; Dark ; 88.5; 1; 9Alp CMA ; -1.44; 11000;occ; 177; 0;14401  
 25; 1747.9; 01-DEC-2004 03:39:13; Dark ; 65.0; 7; 19Bet Ori ; 0.10; 14000;occ; 130; 0;14401  
 26; 1929.1; 01-DEC-2004 03:42:15; Dark ; 64.0; 30; 46Eps Ori ; 1.69; 30000;occ; 128; 0;14401  
 27; 2092.4; 01-DEC-2004 03:44:58; Dark ; 63.0; 27; 24Gam Ori ; 1.64; 26000;occ; 126; 0;14401  
 28; 2226.0; 01-DEC-2004 03:47:12; Bright; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;14401  
 29; 2325.2; 01-DEC-2004 03:48:51; Bright; 40.0; 146; 25Eta Tau ; 2.87; 15200;occ; 80; 0;14401  
 30; 2465.1; 01-DEC-2004 03:51:11; Bright; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;14401  
 31; 2600.6; 01-DEC-2004 03:53:26; Bright; 41.5; 79; 26Bet Per ; 2.31; 13100;occ; 83; 0;14401  
 32; 2734.9; 01-DEC-2004 03:55:40; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;14401  
 33; 2815.1; 01-DEC-2004 03:57:01; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;14401  
 34; 2957.0; 01-DEC-2004 03:59:22; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;14401  
 35; 3419.2; 01-DEC-2004 04:07:05; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;14401

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1; -2338.3; 01-DEC-2004 04:11:43; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;14401  
 2; -2219.0; 01-DEC-2004 04:13:43; Bright; 48.5; 36; 50Alp UMA ; 1.80; 6300;occ; 97; 0;14401  
 3; -2122.4; 01-DEC-2004 04:15:19; Bright; 47.5; 82; 48Bet UMA ; 2.37; 10600;occ; 95; 0;14401  
 4; -2023.8; 01-DEC-2004 04:16:58; Bright; 43.0; 32; 77Eps UMA ; 1.76; 11000;occ; 86; 0;14401  
 5; -1898.6; 01-DEC-2004 04:19:03; Bright; 36.5; 39; 85Eta UMA ; 1.85; 24000;occ; 73; 0;14401  
 6; -1724.4; 01-DEC-2004 04:21:57; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;14401

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7;-1545.4; 01-DEC-2004 04:24:56; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;14401
8;-1390.7; 01-DEC-2004 04:27:31; Bright; 35.5; 3; 16Alp Boo ; -0.05; 4250;occ; 71; 0;14401
9;-1170.0; 01-DEC-2004 04:31:12; Bright; 76.0; 96; 68Del Leo ; 2.56; 9300;occ; 152; 0;14401
10; -914.4; 01-DEC-2004 04:35:27; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;14401
11; -628.4; 01-DEC-2004 04:40:13; Dark ; 48.0; 163; 7Del Crv ; 2.94; 11000;occ; 96; 0;14401
12; -530.4; 01-DEC-2004 04:41:51; Dark ; 51.0; 106; 9Bet Crv ; 2.65; 5600;occ; 102; 0;14401
13; -412.9; 01-DEC-2004 04:43:49; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;14401
14; -172.2; 01-DEC-2004 04:47:49; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;14401
15; -74.6; 01-DEC-2004 04:49:27; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;14401
16; 206.4; 01-DEC-2004 04:54:08; Dark ; 40.5; 124; The Car ; 2.76; 30000;occ; 81; 0;14402
17; 363.8; 01-DEC-2004 04:56:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14402
18; 487.5; 01-DEC-2004 04:58:49; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;14402
19; 609.3; 01-DEC-2004 05:00:51; Dark ; 62.5; 34; Gam2Vel ; 1.79; 23000;occ; 125; 0;14402
20; 808.6; 01-DEC-2004 05:04:10; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;14402
21; 920.6; 01-DEC-2004 05:06:02; Dark ; 67.5; 117; Pi Pup ; 2.71; 3800;occ; 135; 0;14402
22; 1147.7; 01-DEC-2004 05:09:49; Dark ; 68.0; 23; 21Eps CMa ; 1.50; 26000;occ; 136; 0;14402
23; 1277.6; 01-DEC-2004 05:11:59; Dark ; 73.5; 179; 240mi2CMa ; 3.03; 24000;occ; 147; 0;14402
24; 1529.4; 01-DEC-2004 05:16:11; Dark ; 94.5; 1; 9Alp CMa ; -1.44; 11000;occ; 189; 0;14402
25; 1749.6; 01-DEC-2004 05:19:51; Dark ; 59.0; 7; 19Bet Ori ; 0.10; 14000;occ; 118; 0;14402
26; 1926.9; 01-DEC-2004 05:22:48; Dark ; 71.5; 30; 46Eps Ori ; 1.69; 30000;occ; 143; 0;14402
27; 2090.8; 01-DEC-2004 05:25:32; Dark ; 67.0; 27; 24Gam Ori ; 1.64; 26000;occ; 134; 0;14402
28; 2227.3; 01-DEC-2004 05:27:49; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;14402
29; 2325.7; 01-DEC-2004 05:29:27; Bright; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0;14402
30; 2466.7; 01-DEC-2004 05:31:48; Bright; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;14402
31; 2603.0; 01-DEC-2004 05:34:04; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;14402
32; 2735.0; 01-DEC-2004 05:36:17; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;14402
33; 2816.1; 01-DEC-2004 05:37:38; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0;14402
34; 2957.7; 01-DEC-2004 05:39:59; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;14402
35; 3419.7; 01-DEC-2004 05:47:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;14402
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1;-2336.6; 01-DEC-2004 05:52:21; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;14402
2;-2219.0; 01-DEC-2004 05:54:19; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;14402
3;-2122.7; 01-DEC-2004 05:55:55; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 0;14402
4;-2026.5; 01-DEC-2004 05:57:31; Bright; 42.0; 32; 77Eps UMa ; 1.76; 11000;occ; 84; 0;14402
5;-1899.6; 01-DEC-2004 05:59:38; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;14402
6;-1724.4; 01-DEC-2004 06:02:33; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;14402
7;-1543.3; 01-DEC-2004 06:05:34; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;14402
8;-1390.9; 01-DEC-2004 06:08:07; Bright; 36.5; 3; 16Alp Boo ; -0.05; 4250;occ; 73; 0;14402
9;-1169.8; 01-DEC-2004 06:11:48; Bright; 72.5; 96; 68Del Leo ; 2.56; 9300;occ; 145; 0;14402
10; -914.3; 01-DEC-2004 06:16:03; Bright; 62.0; 121; 29Gam Vir ; 2.74; 7200;occ; 124; 0;14402
11; -627.7; 01-DEC-2004 06:20:50; Dark ; 44.5; 163; 7Del Crv ; 2.94; 11000;occ; 89; 0;14402
12; -529.5; 01-DEC-2004 06:22:28; Dark ; 49.0; 106; 9Bet Crv ; 2.65; 5600;occ; 98; 0;14402
13; -412.2; 01-DEC-2004 06:24:25; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;14402
14; -171.7; 01-DEC-2004 06:28:26; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0;14402
15; -74.4; 01-DEC-2004 06:30:03; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;14402
16; 207.0; 01-DEC-2004 06:34:45; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0;14403
17; 366.7; 01-DEC-2004 06:37:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14403
18; 488.2; 01-DEC-2004 06:39:26; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;14403
19; 610.0; 01-DEC-2004 06:41:28; Dark ; 50.0; 34; Gam2Vel ; 1.79; 23000;occ; 100; 0;14403
20; 809.1; 01-DEC-2004 06:44:47; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;14403
21; 923.7; 01-DEC-2004 06:46:41; Dark ; 74.0; 117; Pi Pup ; 2.71; 3800;occ; 148; 0;14403
22; 1150.2; 01-DEC-2004 06:50:28; Dark ; 71.0; 23; 21Eps CMa ; 1.50; 26000;occ; 142; 0;14403
23; 1278.7; 01-DEC-2004 06:52:36; Dark ; 74.0; 179; 240mi2CMa ; 3.03; 24000;occ; 148; 0;14403
24; 1529.5; 01-DEC-2004 06:56:47; Dark ; 98.5; 1; 9Alp CMa ; -1.44; 11000;occ; 197; 0;14403
25; 1750.1; 01-DEC-2004 07:00:28; Dark ; 68.0; 7; 19Bet Ori ; 0.10; 14000;occ; 136; 0;14403
26; 1928.3; 01-DEC-2004 07:03:26; Dark ; 60.5; 30; 46Eps Ori ; 1.69; 30000;occ; 121; 0;14403
27; 2091.0; 01-DEC-2004 07:06:08; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;14403
28; 2227.7; 01-DEC-2004 07:08:25; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;14403
29; 2326.2; 01-DEC-2004 07:10:04; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;14403
30; 2467.2; 01-DEC-2004 07:12:25; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;14403
31; 2603.3; 01-DEC-2004 07:14:41; Bright; 38.5; 79; 26Bet Per ; 2.31; 13100;occ; 77; 0;14403
32; 2735.1; 01-DEC-2004 07:16:53; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;14403
33; 2816.2; 01-DEC-2004 07:18:14; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;14403
34; 2958.6; 01-DEC-2004 07:20:36; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;14403
35; 3419.8; 01-DEC-2004 07:28:17; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;14403
36; 3699.5; 01-DEC-2004 07:32:57; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;14403
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1;-2219.6; 01-DEC-2004 07:34:54; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;14403

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2;-2123.2; 01-DEC-2004 07:36:30; Bright; 47.5; 82; 48Bet UMA ; 2.37; 10600;occ; 95; 0;14403
3;-2024.9; 01-DEC-2004 07:38:09; Bright; 40.0; 32; 77Eps UMA ; 1.76; 11000;occ; 80; 0;14403
4;-1899.0; 01-DEC-2004 07:40:14; Bright; 38.5; 39; 85Eta UMA ; 1.85; 24000;occ; 77; 0;14403
5;-1723.4; 01-DEC-2004 07:43:10; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;14403
6;-1543.2; 01-DEC-2004 07:46:10; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;14403
7;-1390.7; 01-DEC-2004 07:48:43; Bright; 35.5; 3; 16Alp Boo ;-0.05; 4250;occ; 71; 0;14403
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