

# GOMOS Daily Report 04-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	06DEC2004 05:01:55

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (04DEC2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (05DEC2004 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)

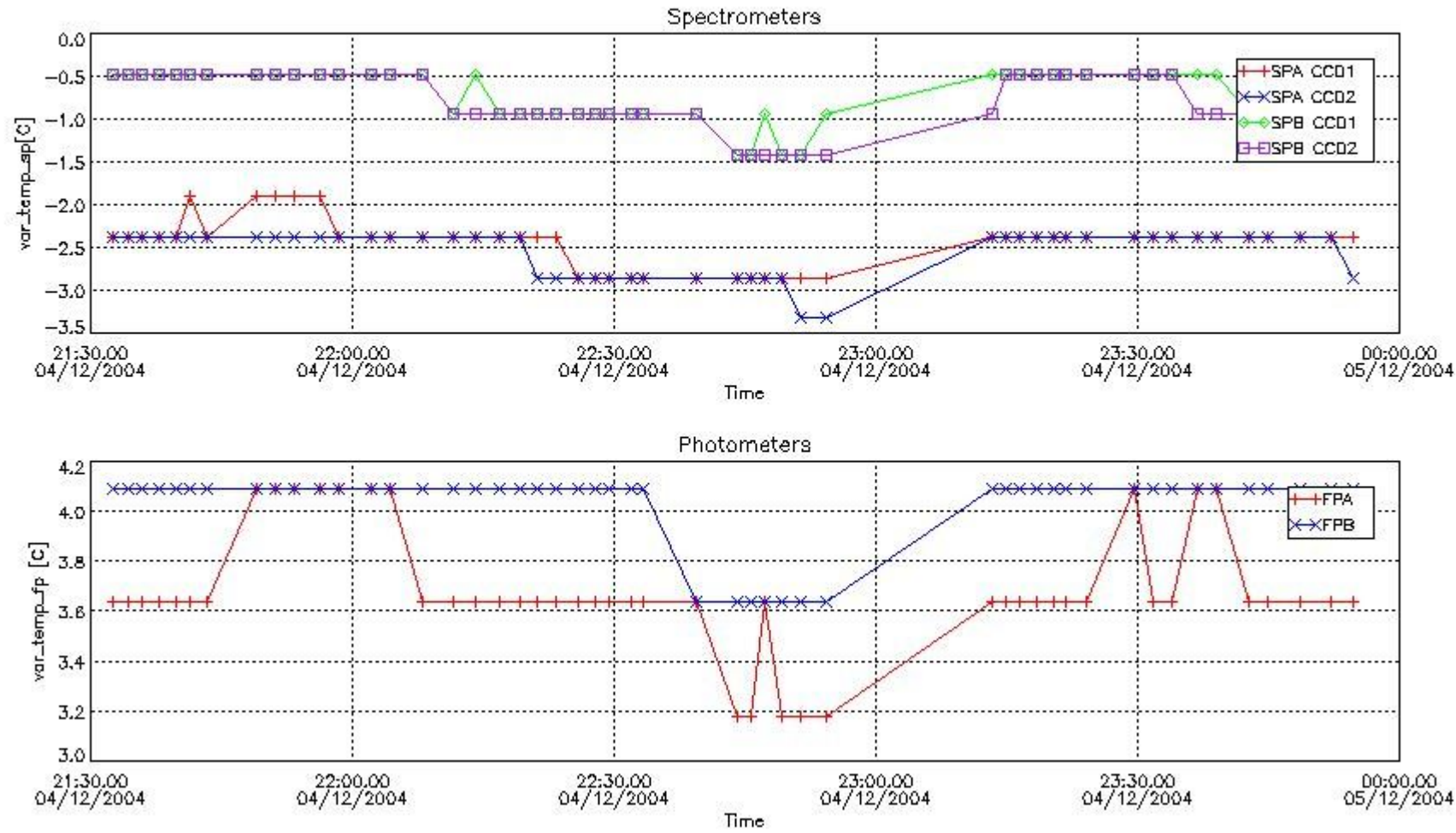
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20041204_213237_000000452032_00372_14454_0000.N1	04-DEC-2004 21:32:37	Twilight	45.000	163	7Del Crv	2.9450	11000.	90	14454	No
2	GOM_TRA_1PNPDE20041204_213413_000000462032_00372_14454_0001.N1	04-DEC-2004 21:34:13	Twilight	46.000	106	9Bet Crv	2.6480	5600.0	92	14454	No
3	GOM_TRA_1PNPDE20041204_213554_000000412032_00372_14454_0002.N1	04-DEC-2004 21:35:54	Twilight	41.000	123	1ot Cen	2.7500	10200.	82	14454	No
4	GOM_TRA_1PNPDE20041204_213754_000000382032_00372_14454_0003.N1	04-DEC-2004 21:37:54	Twilight	38.000	95	Zet Cen	2.5450	26000.	76	14454	No
5	GOM_TRA_1PNPDE20041204_213945_000000402032_00372_14454_0004.N1	04-DEC-2004 21:39:45	Dark	39.500	77	Eps Cen	2.3030	28000.	79	14454	No
6	GOM_TRA_1PNPDE20041204_214117_000000492032_00372_14454_0005.N1	04-DEC-2004 21:41:17	Dark	49.000	10	Bet Cen	0.61000	28000.	98	14454	No
7	GOM_TRA_1PNPDE20041204_214325_000000422032_00373_14455_0006.N1	04-DEC-2004 21:43:25	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	14455	No
8	GOM_TRA_1PNPDE20041204_214900_000000412032_00373_14455_0007.N1	04-DEC-2004 21:49:00	Dark	41.000	29	Bet Car	1.6720	10200.	82	14455	No
9	GOM_TRA_1PNPDE20041204_215105_000000462032_00373_14455_0008.N1	04-DEC-2004 21:51:05	Dark	46.000	41	Eps Car	1.8600	4100.0	92	14455	No
10	GOM_TRA_1PNPDE20041204_215319_000000522032_00373_14455_0009.N1	04-DEC-2004 21:53:19	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	14455	No
11	GOM_TRA_1PNPDE20041204_215620_000000492032_00373_14455_0010.N1	04-DEC-2004 21:56:20	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	14455	No
12	GOM_TRA_1PNPDE20041204_215828_000000652032_00373_14455_0011.N1	04-DEC-2004 21:58:28	Dark	65.000	117	Pi Pup	2.7060	3800.0	130	14455	No
13	GOM_TRA_1PNPDE20041204_220207_000000662032_00373_14455_0012.N1	04-DEC-2004 22:02:07	Dark	66.000	23	21Eps CMa	1.5020	26000.	132	14455	No
14	GOM_TRA_1PNPDE20041204_220412_000000682032_00373_14455_0013.N1	04-DEC-2004 22:04:12	Dark	68.000	179	24Omi2CMa	3.0320	24000.	136	14455	No
15	GOM_TRA_1PNPDE20041204_220801_000000912032_00373_14455_0014.N1	04-DEC-2004 22:08:01	Twilight	90.500	1	9Alp CMa	-1.4400	11000.	181	14455	No
16	GOM_TRA_1PNPDE20041204_221132_000000602032_00373_14455_0015.N1	04-DEC-2004 22:11:32	Bright	59.500	7	19Bet Ori	0.10000	14000.	119	14455	No
17	GOM_TRA_1PNPDE20041204_221402_000000632032_00373_14455_0016.N1	04-DEC-2004 22:14:02	Bright	63.000	33	50Zet Ori	1.7660	30000.	126	14455	No
18	GOM_TRA_1PNPDE20041204_221652_000000592032_00373_14455_0017.N1	04-DEC-2004 22:16:52	Bright	59.000	27	24Gam Ori	1.6360	26000.	118	14455	No
19	GOM_TRA_1PNPDE20041204_221917_000000592032_00373_14455_0018.N1	04-DEC-2004 22:19:17	Bright	58.500	13	87Alp Tau	0.86700	3800.0	117	14455	No
20	GOM_TRA_1PNPDE20041204_222105_000000392032_00373_14455_0019.N1	04-DEC-2004 22:21:05	Bright	39.000	146	25Eta Tau	2.8730	15200.	78	14455	No
21	GOM_TRA_1PNPDE20041204_222323_000000402032_00373_14455_0020.N1	04-DEC-2004 22:23:23	Bright	40.000	150	44Zet Per	2.8900	28000.	80	14455	No
22	GOM_TRA_1PNPDE20041204_222548_000000372032_00373_14455_0021.N1	04-DEC-2004 22:25:48	Bright	37.000	79	26Bet Per	2.3100	13100.	74	14455	No
23	GOM_TRA_1PNPDE20041204_222751_000000392032_00373_14455_0022.N1	04-DEC-2004 22:27:51	Bright	38.500	175	39Del Per	3.0100	19400.	77	14455	No
24	GOM_TRA_1PNPDE20041204_222920_000000382032_00373_14455_0023.N1	04-DEC-2004 22:29:20	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	14455	No
25	GOM_TRA_1PNPDE20041204_223155_000000362032_00373_14455_0024.N1	04-DEC-2004 22:31:55	Bright	35.500	110	37Del Cas	2.6780	8900.0	71	14455	No
26	GOM_TRA_1PNPDE20041204_223315_000000392032_00373_14455_0025.N1	04-DEC-2004 22:33:15	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	14455	No
27	GOM_TRA_1PNPDE20041204_223925_000000382032_00373_14455_0026.N1	04-DEC-2004 22:39:25	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	14455	No
28	GOM_TRA_1PNPDE20041204_224407_000000422032_00373_14455_0027.N1	04-DEC-2004 22:44:07	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	14455	No
29	GOM_TRA_1PNPDE20041204_224543_000000462032_00373_14455_0028.N1	04-DEC-2004 22:45:43	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	14455	No
30	GOM_TRA_1PNPDE20041204_224716_000000482032_00373_14455_0029.N1	04-DEC-2004 22:47:16	Bright	47.500	82	48Bet UMa	2.3650	10600.	95	14455	No
31	GOM_TRA_1PNPDE20041204_224911_000000442032_00373_14455_0030.N1	04-DEC-2004 22:49:11	Bright	43.500	32	77Eps UMa	1.7630	11000.	87	14455	No
32	GOM_TRA_1PNPDE20041204_225124_000000402032_00373_14455_0031.N1	04-DEC-2004 22:51:24	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	14455	No
33	GOM_TRA_1PNPDE20041204_225424_000000382032_00373_14455_0032.N1	04-DEC-2004 22:54:24	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	14455	No
34	GOM_TRA_1PNPDE20041204_231314_000000482032_00373_14455_0000.N1	04-DEC-2004 23:13:14	Twilight	48.000	163	7Del Crv	2.9450	11000.	96	14455	No
35	GOM_TRA_1PNPDE20041204_231449_000000502032_00373_14455_0001.N1	04-DEC-2004 23:14:49	Twilight	50.000	106	9Bet Crv	2.6480	5600.0	100	14455	No
36	GOM_TRA_1PNPDE20041204_231630_000000412032_00373_14455_0002.N1	04-DEC-2004 23:16:30	Twilight	41.000	123	1ot Cen	2.7500	10200.	82	14455	No
37	GOM_TRA_1PNPDE20041204_231830_000000382032_00373_14455_0003.N1	04-DEC-2004 23:18:30	Twilight	38.000	95	Zet Cen	2.5450	26000.	76	14455	No
38	GOM_TRA_1PNPDE20041204_232020_000000402032_00373_14455_0004.N1	04-DEC-2004 23:20:20	Dark	40.000	77	Eps Cen	2.3030	28000.	80	14455	No
39	GOM_TRA_1PNPDE20041204_232148_000000442032_00373_14455_0005.N1	04-DEC-2004 23:21:48	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	14455	No
40	GOM_TRA_1PNPDE20041204_232402_000000512032_00374_14456_0006.N1	04-DEC-2004 23:24:02	Dark	51.000	12	Alp1Cru	0.77500	30000.	102	14456	No
41	GOM_TRA_1PNPDE20041204_232933_000000452032_00374_14456_0007.N1	04-DEC-2004 23:29:33	Dark	44.500	29	Bet Car	1.6720	10200.	89	14456	No
42	GOM_TRA_1PNPDE20041204_233142_000000442032_00374_14456_0008.N1	04-DEC-2004 23:31:42	Dark	44.000	41	Eps Car	1.8600	4100.0	88	14456	No
43	GOM_TRA_1PNPDE20041204_233356_000000552032_00374_14456_0009.N1	04-DEC-2004 23:33:56	Dark	54.500	34	Gam2Vel	1.7930	23000.	109	14456	No
44	GOM_TRA_1PNPDE20041204_233654_000000572032_00374_14456_0010.N1	04-DEC-2004 23:36:54	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	14456	No
45	GOM_TRA_1PNPDE20041204_233906_000000672032_00374_14456_0011.N1	04-DEC-2004 23:39:06	Dark	66.500	117	Pi Pup	2.7060	3800.0	133	14456	No
46	GOM_TRA_1PNPDE20041204_234245_000000672032_00374_14456_0012.N1	04-DEC-2004 23:42:45	Dark	67.000	23	21Eps CMa	1.5020	26000.	134	14456	No

47	GOM_TRA_1PNPDE20041204_234448_00000682032_00374_14456_0013.N1	04-DEC-2004 23:44:48	Dark	68.000	179	24Omi2CMa	3.0320	24000.	136	14456	No
48	GOM_TRA_1PNPDE20041204_234838_00000802032_00374_14456_0014.N1	04-DEC-2004 23:48:38	Twilight	80.000	1	9Alp CMa	-1.4400	11000.	160	14456	No
49	GOM_TRA_1PNPDE20041204_235208_00000552032_00374_14456_0015.N1	04-DEC-2004 23:52:08	Bright	55.000	7	19Bet Ori	0.10000	14000.	110	14456	No
50	GOM_TRA_1PNPDE20041204_235438_00000642032_00374_14456_0016.N1	04-DEC-2004 23:54:38	Bright	63.500	33	50Zet Ori	1.7660	30000.	127	14456	No

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



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

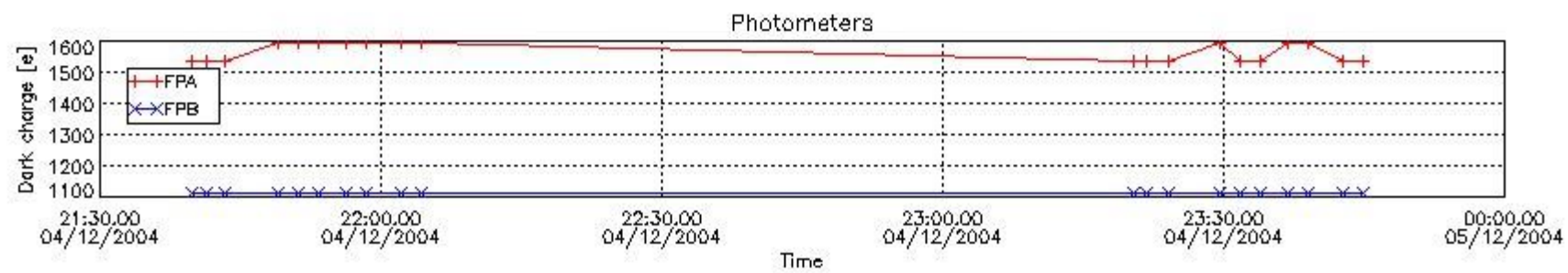
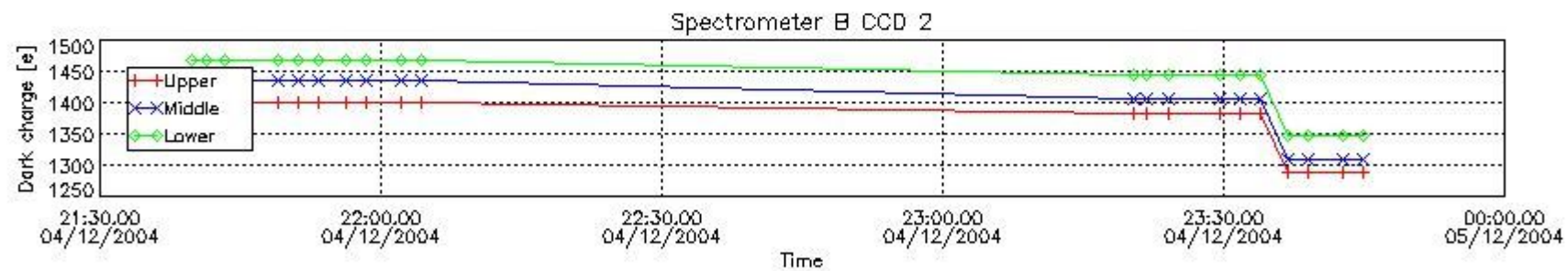
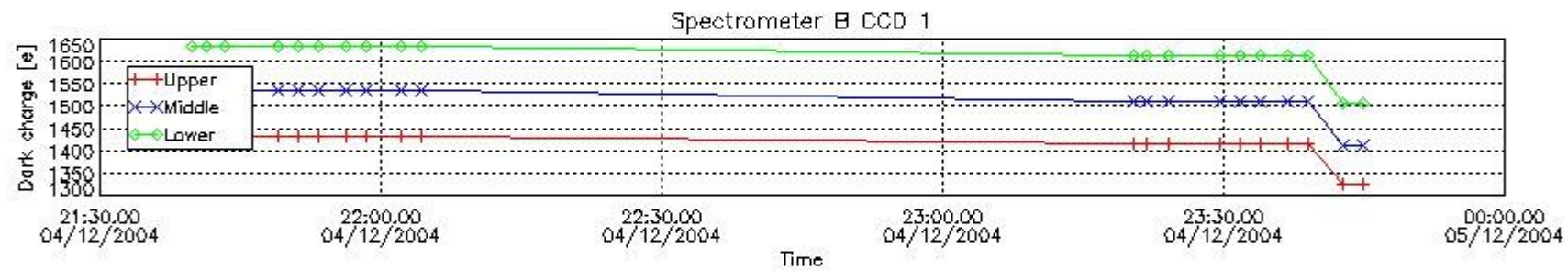
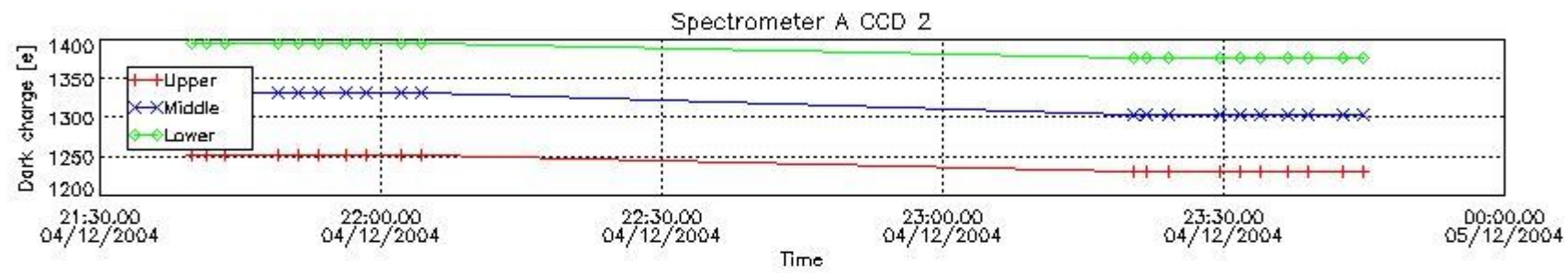
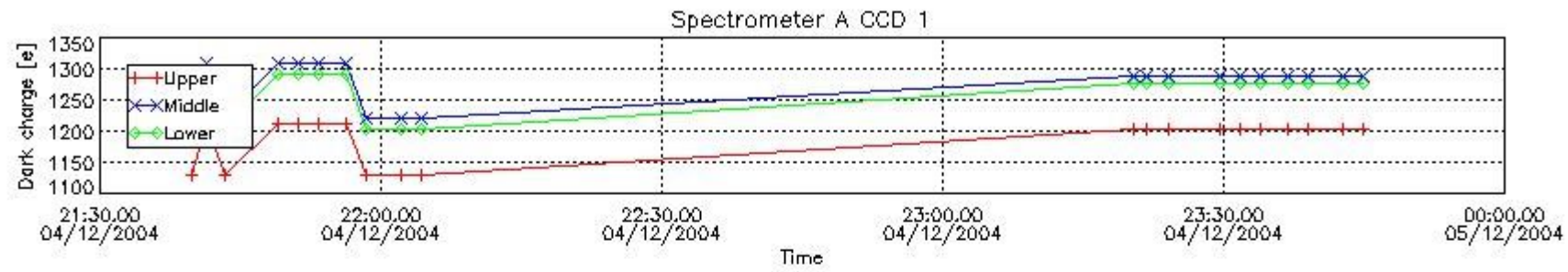
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





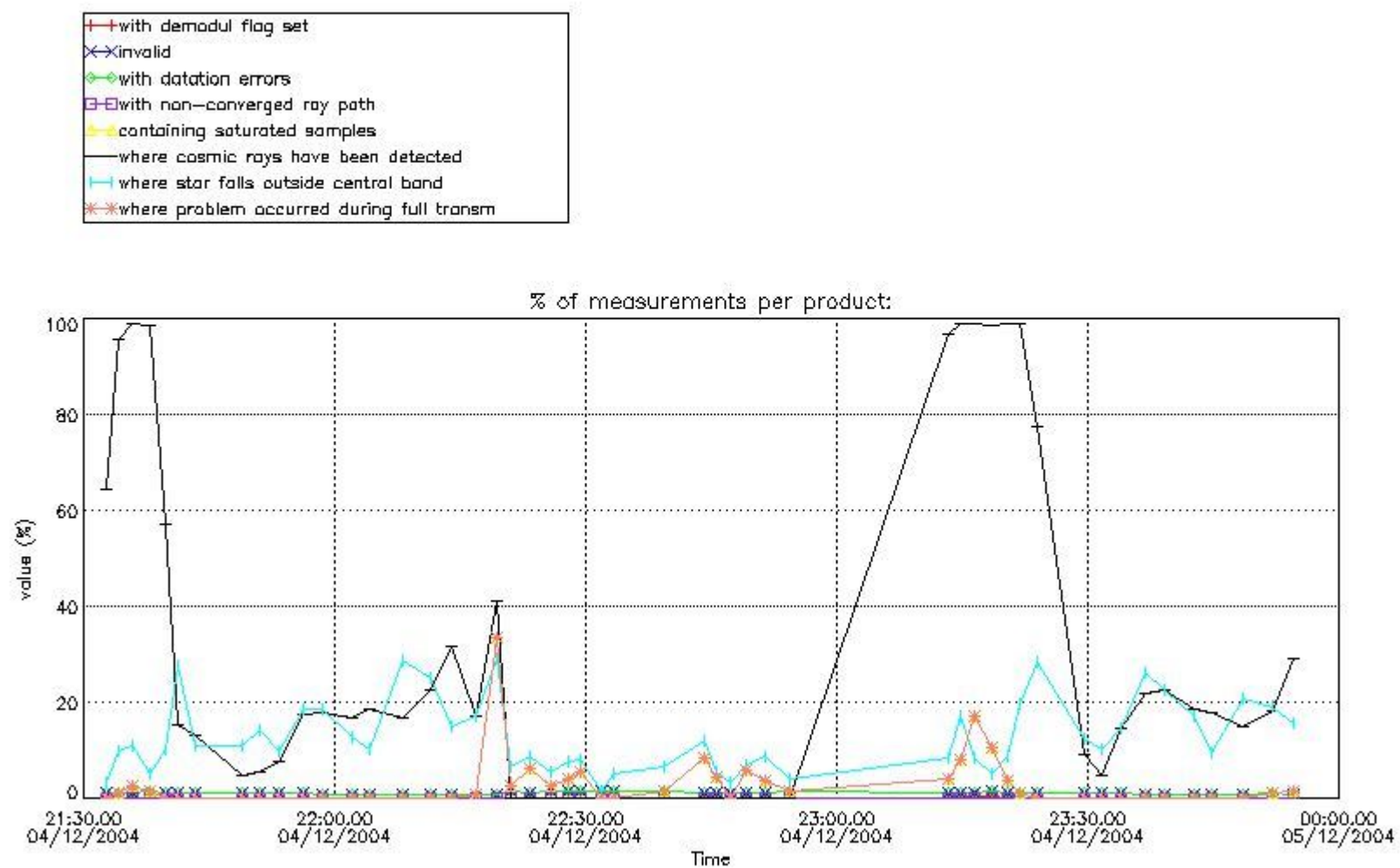
## 5. Demodulation flag and quality information monitoring

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.

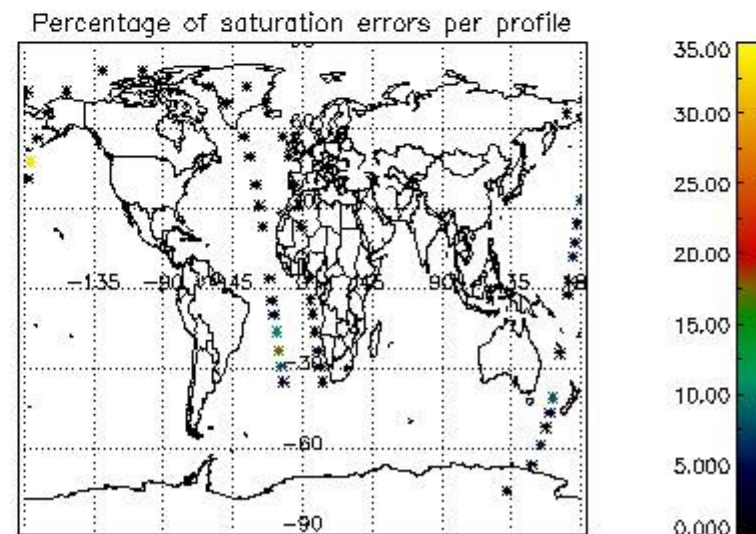
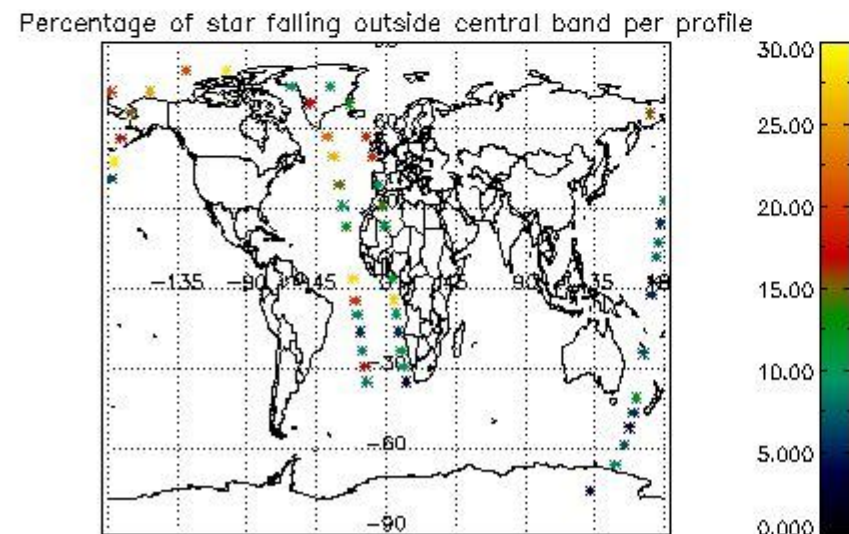
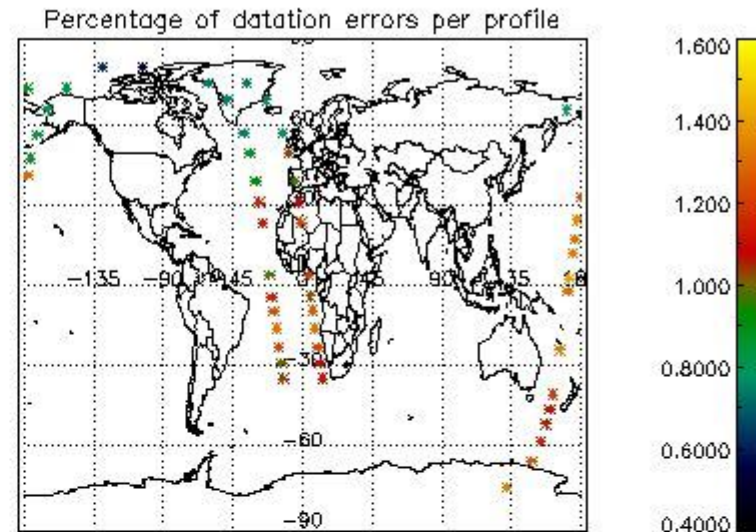
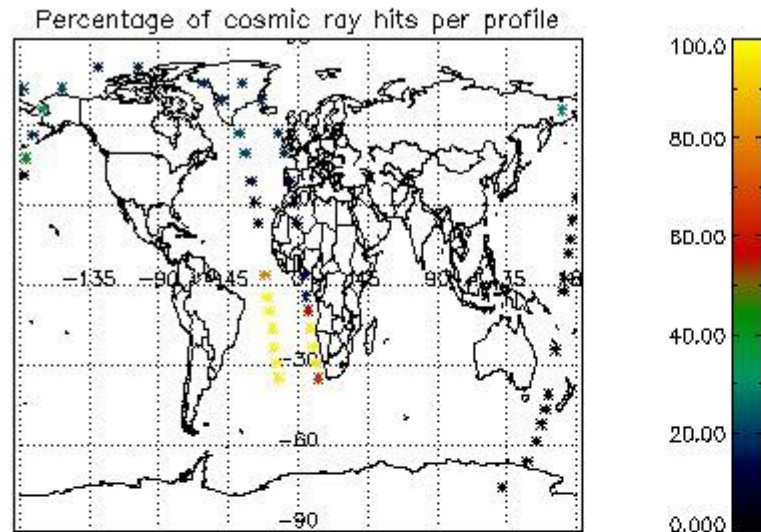
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
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)

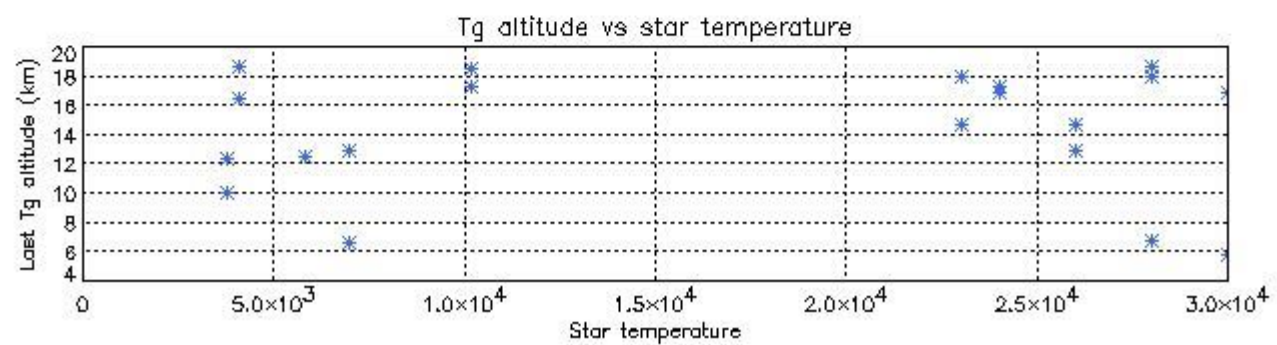
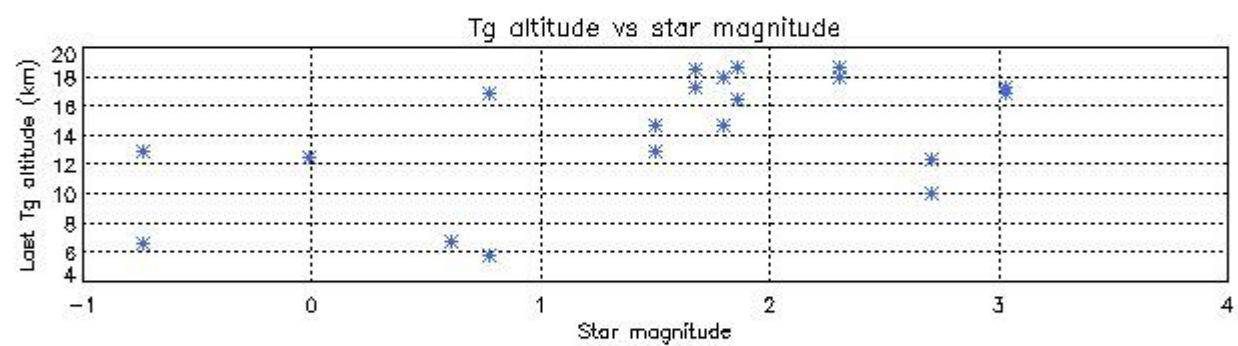
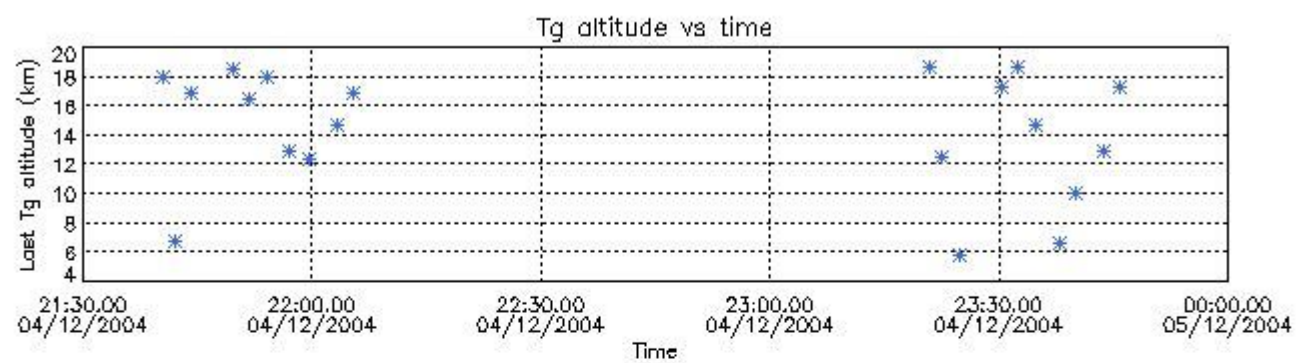
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.281	17.987	16.740
St. deviation:	4.2069	5.3919	4.9114
Maximum:	18.673	26.474	23.075
Minimum:	5.7300	6.5014	7.0466
Number of data:	20.000	20.000	10.000

### 6.2 Plot for DARK limb products

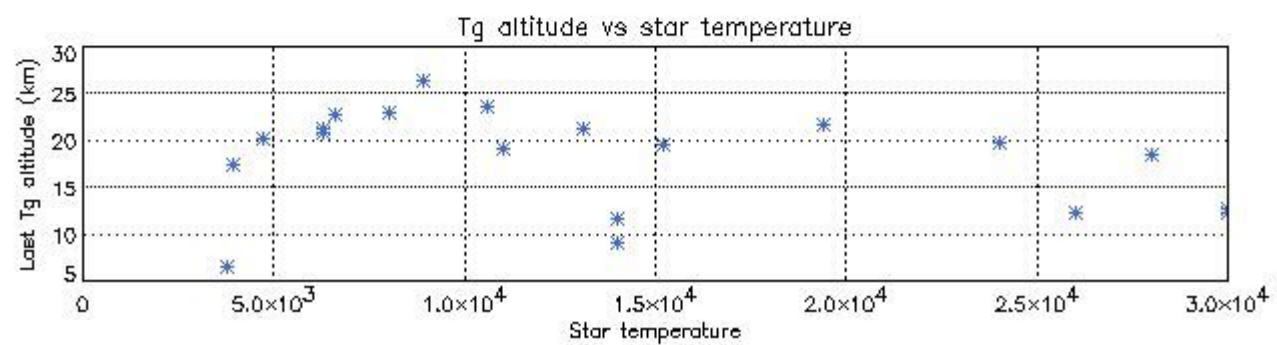
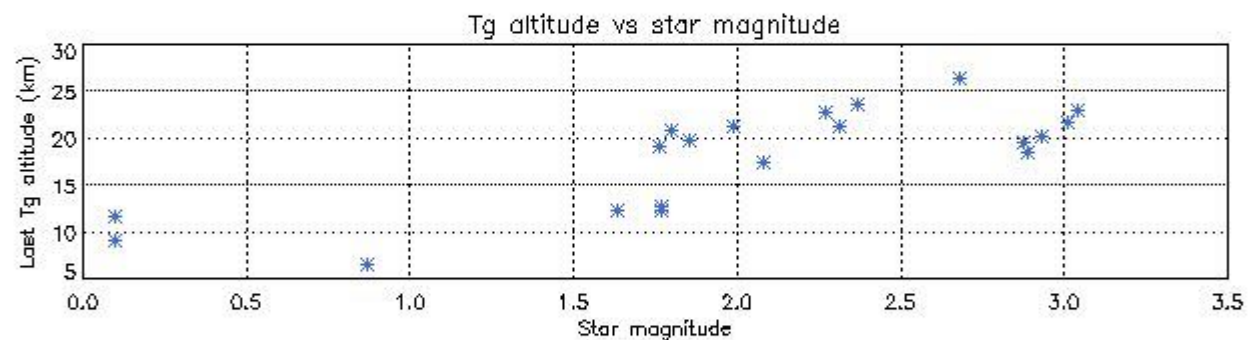
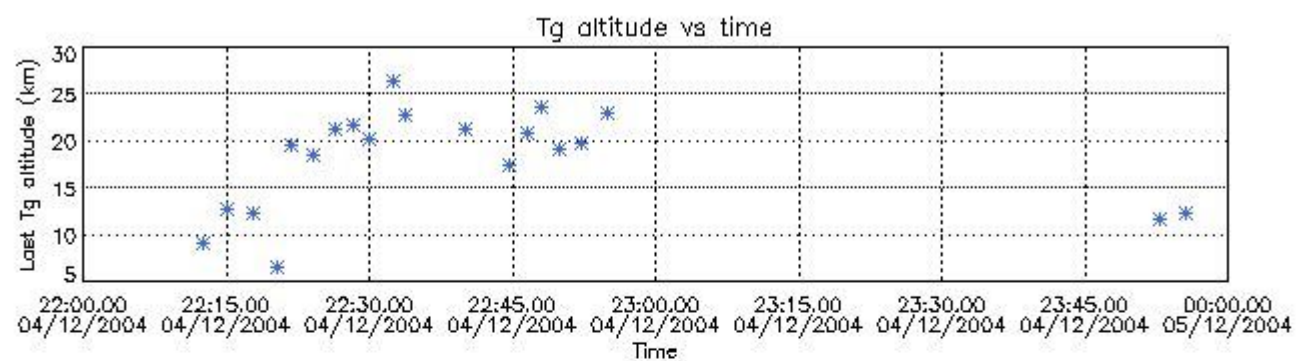


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

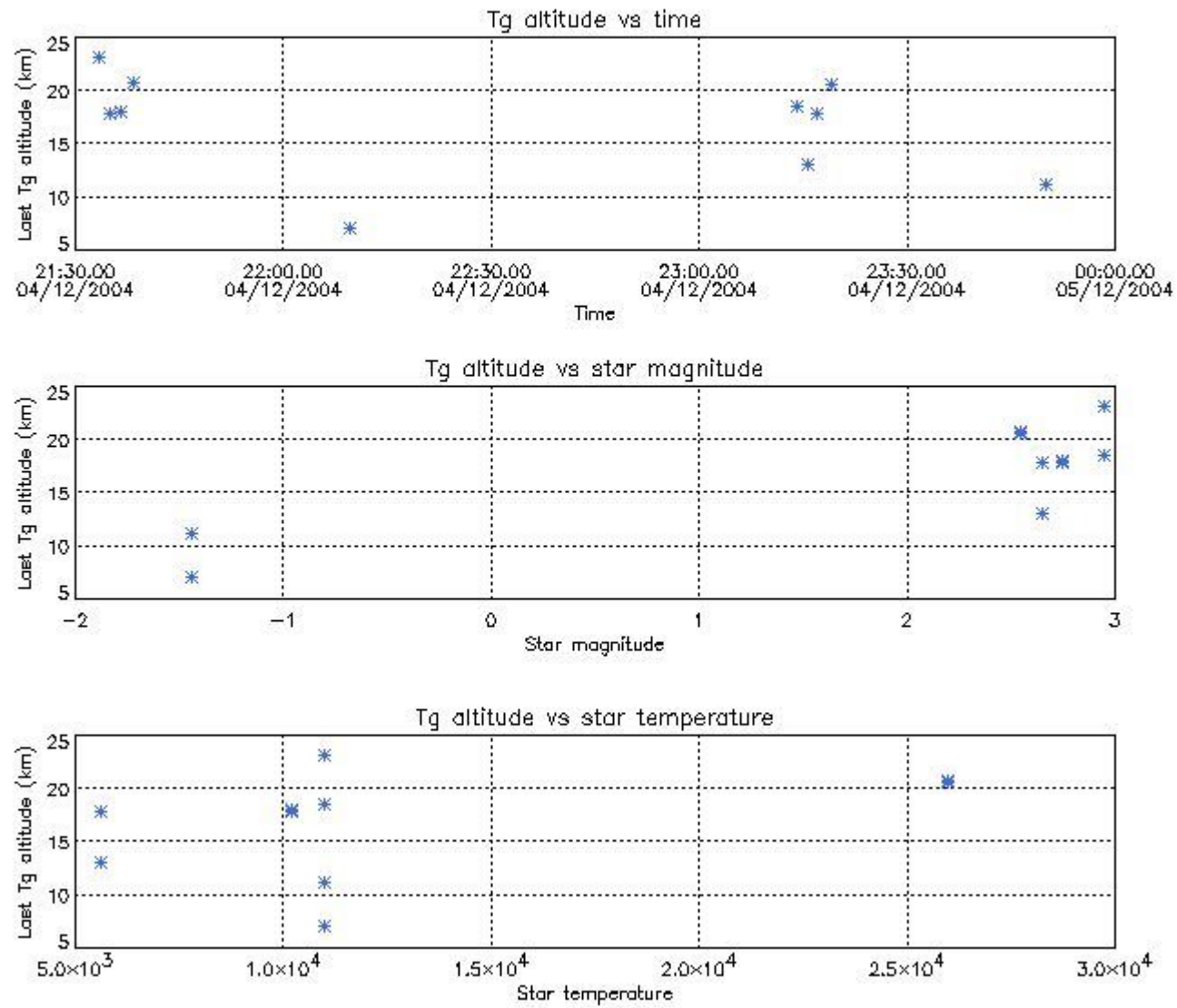
Tangent altitude at which the star is lost



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

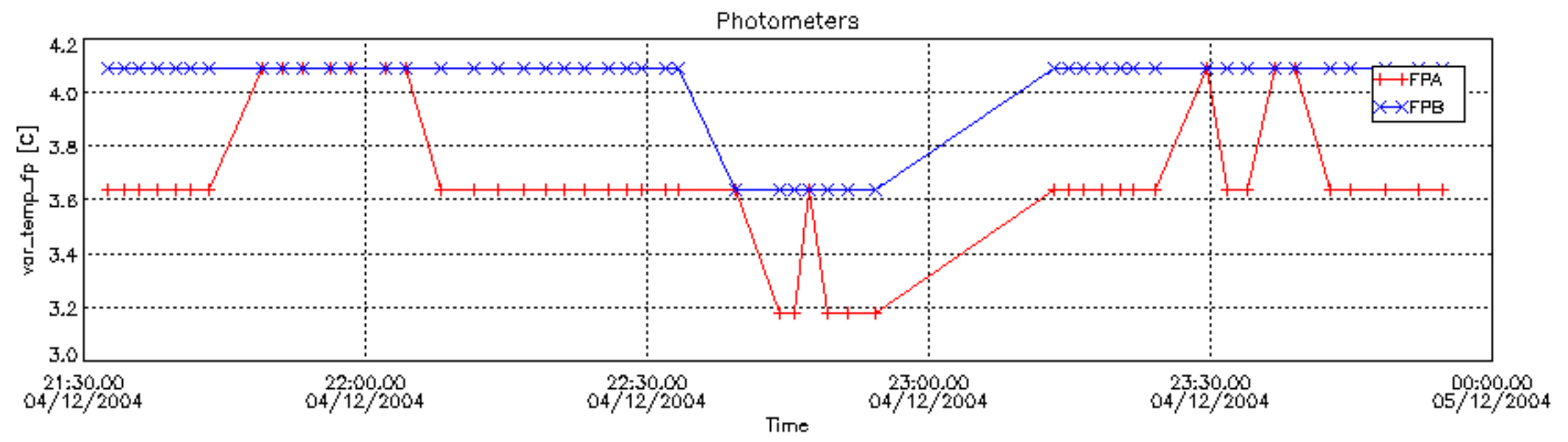
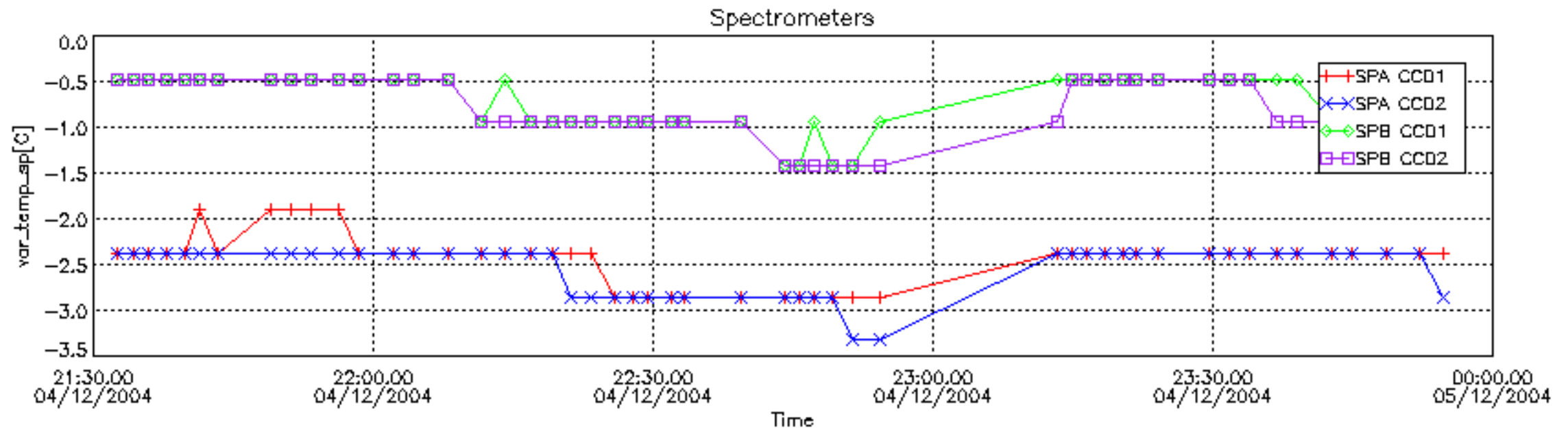
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

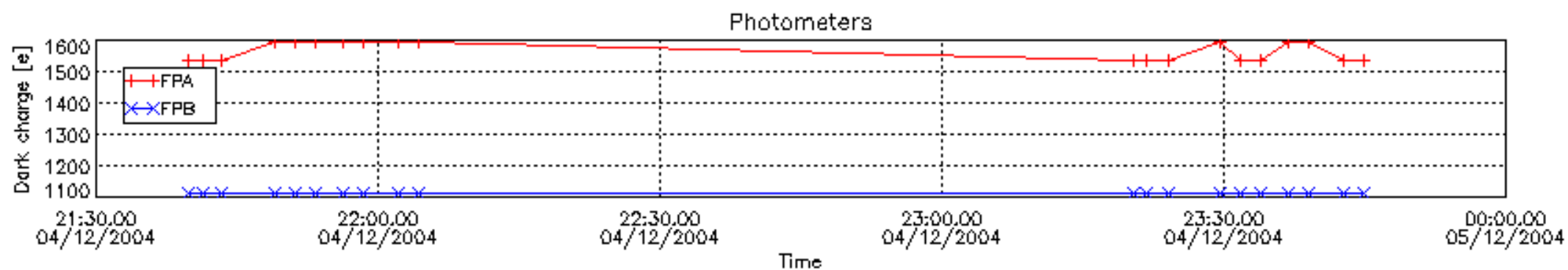
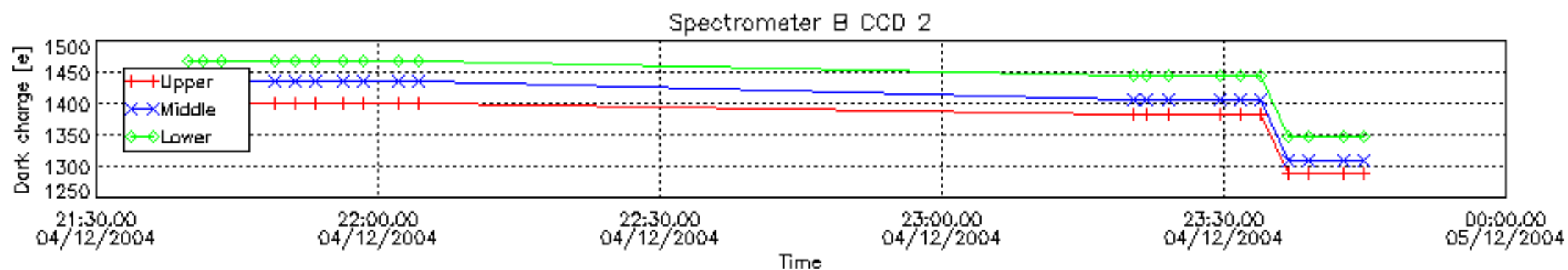
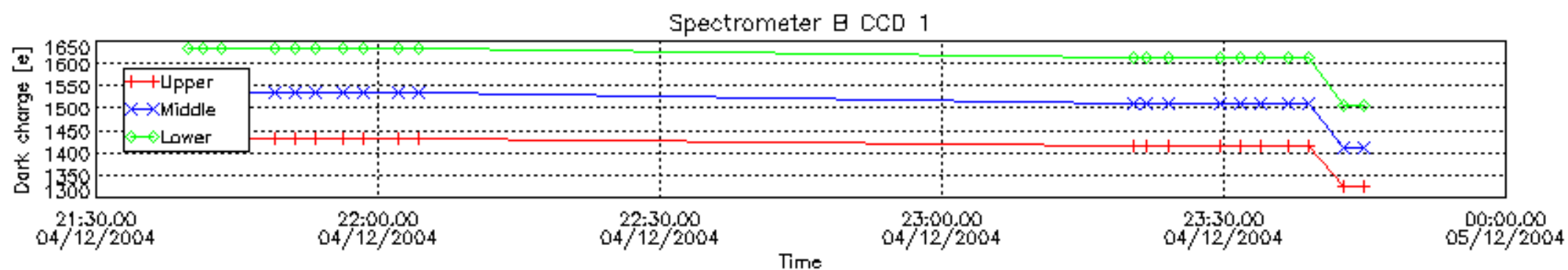
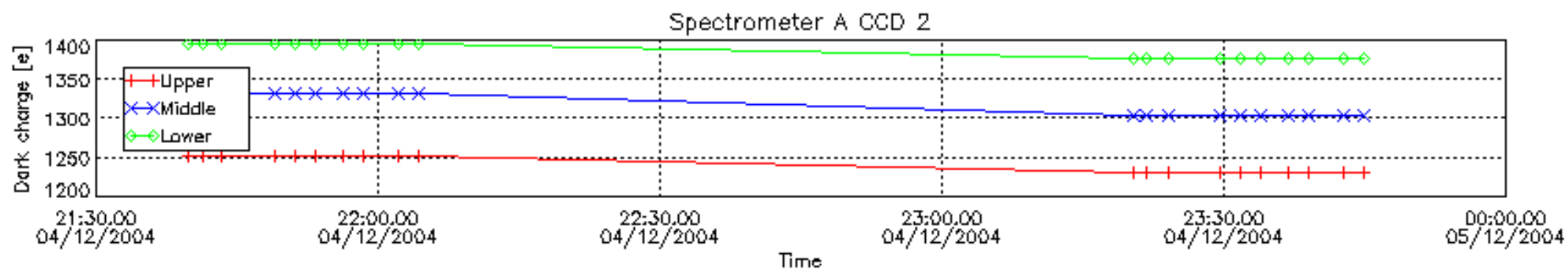
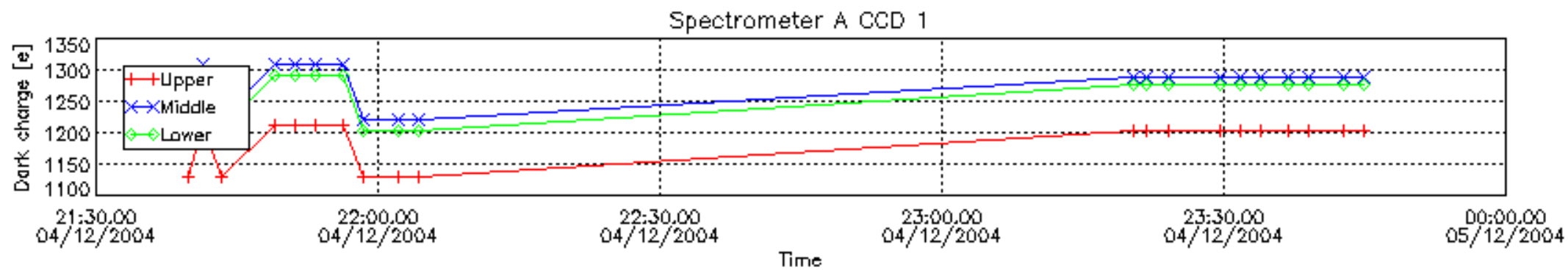
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1447.7	1461.8	1447.8
St. deviation:	4.5475	6.1082	7.2099	8.7281
Maximum:	1508.0	1502.0	1511.0	1508.0
Minimum:	1425.0	1396.0	1448.0	1433.0
Number of data:	26850.	26850.	23400.	23400.

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

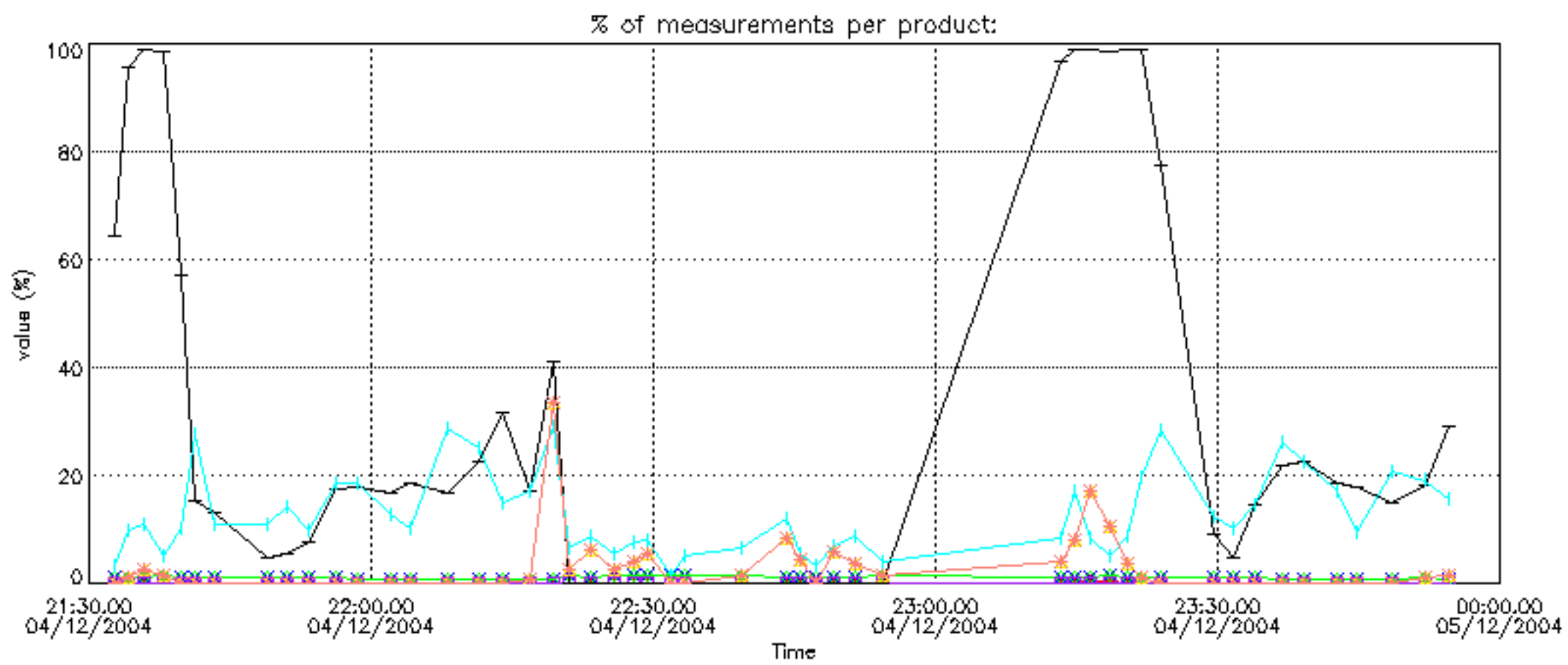
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	04-DEC-2004 21:32:37
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041129_135000_20041127_000000_20100101_000000	1	04-DEC-2004 21:32:37
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	04-DEC-2004 21:32:37
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-DEC-2004 21:32:37
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	04-DEC-2004 21:32:37
ECMWF_FILE	AUX_ECF_AXNECM20041204_060636_20041204_210000_20041205_090000	1	04-DEC-2004 21:32:37
OPTIONAL_ECMWF_FILE	NOT USED	1	04-DEC-2004 21:32:37
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041204_231531_20041204_182113_20041214_212801	1	04-DEC-2004 21:32:37

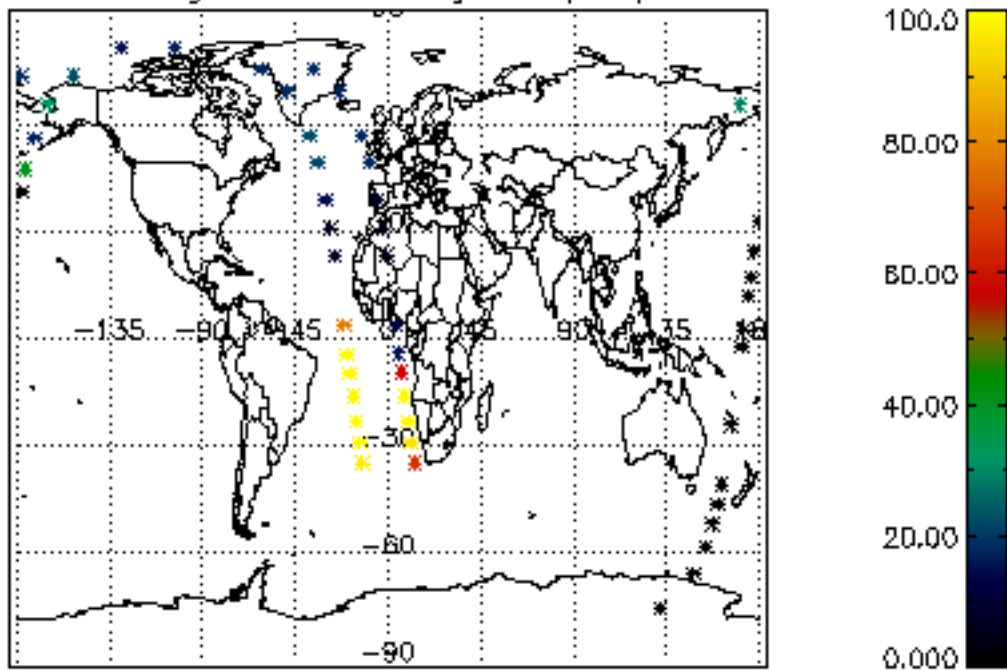




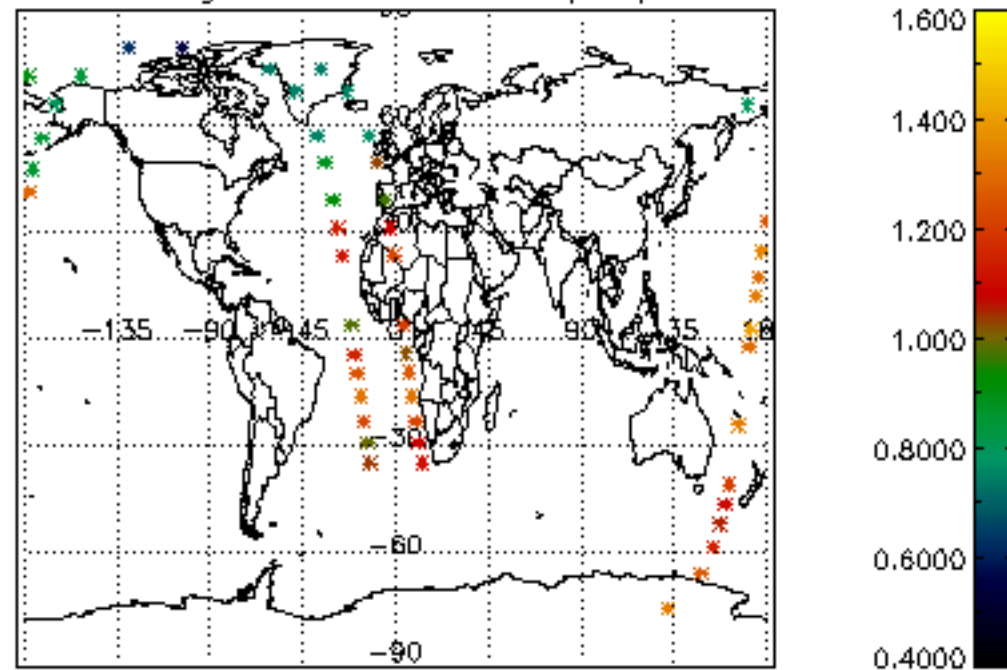




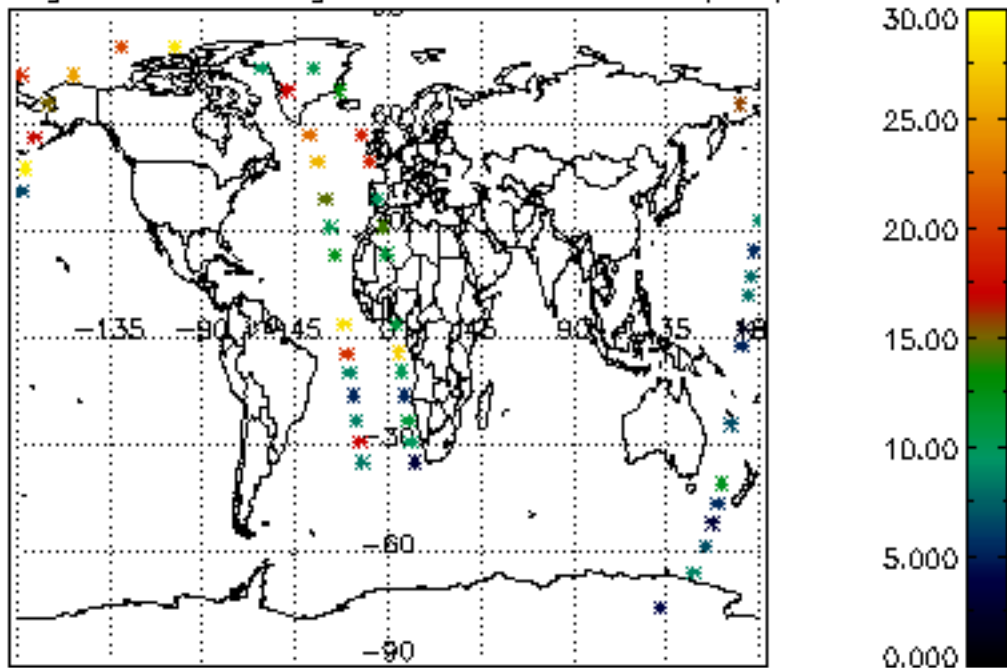
Percentage of cosmic ray hits per profile



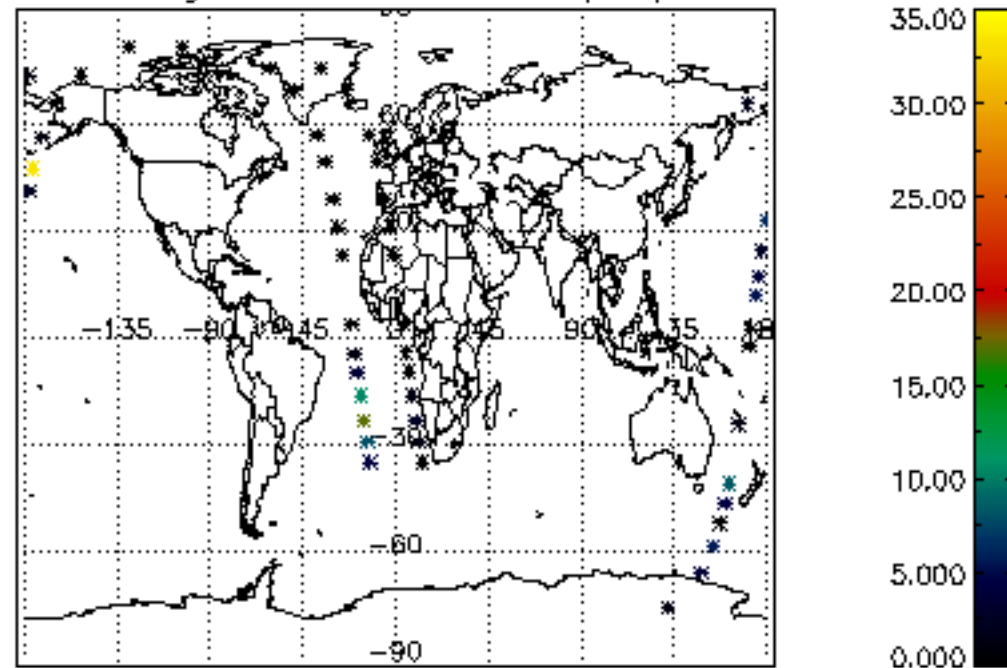
Percentage of datation errors per profile



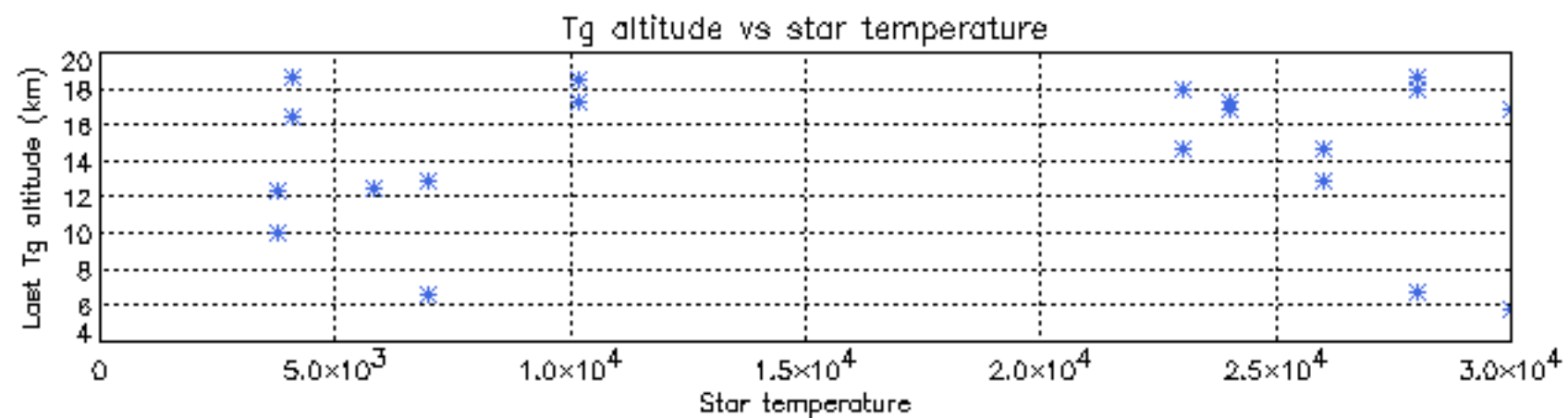
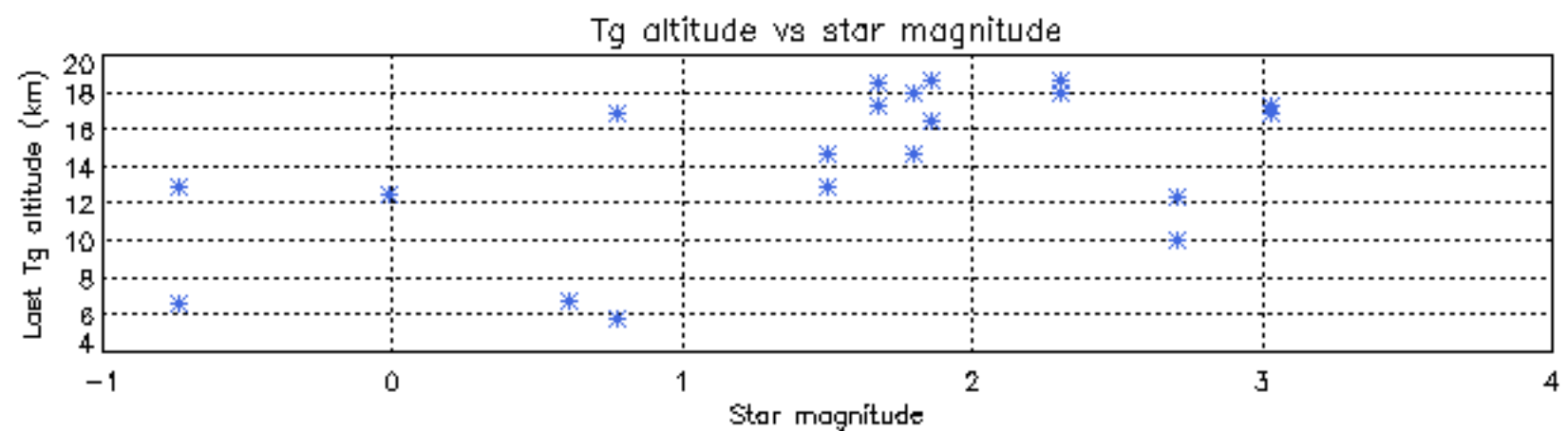
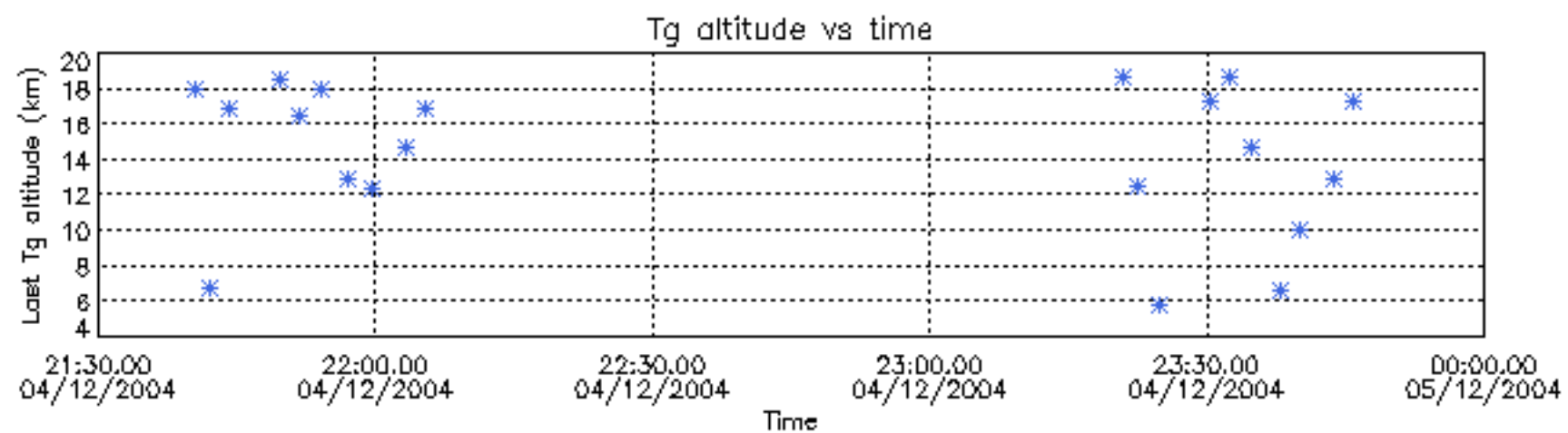
Percentage of star falling outside central band per profile



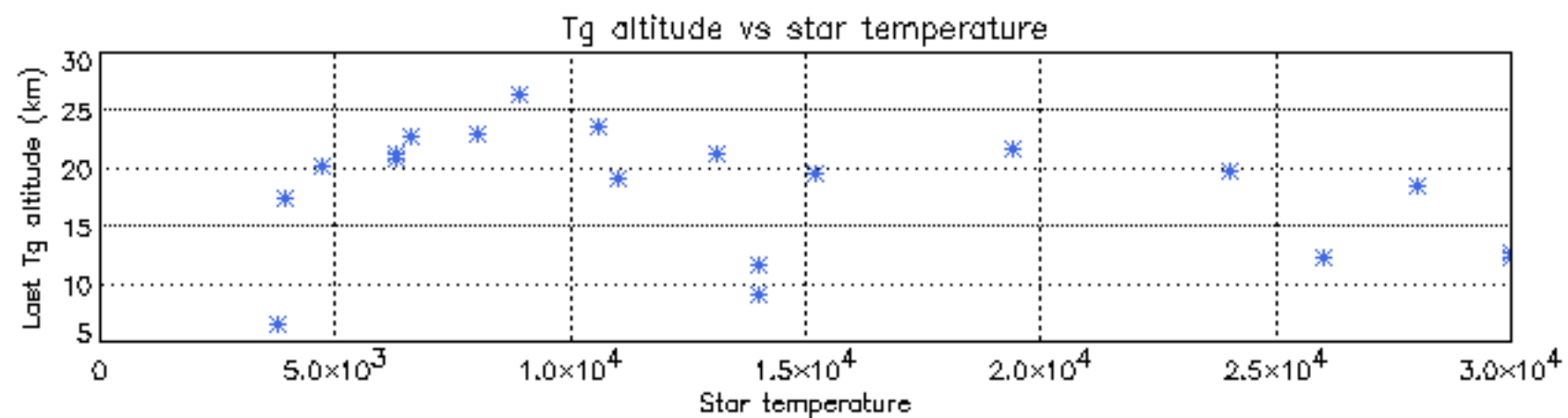
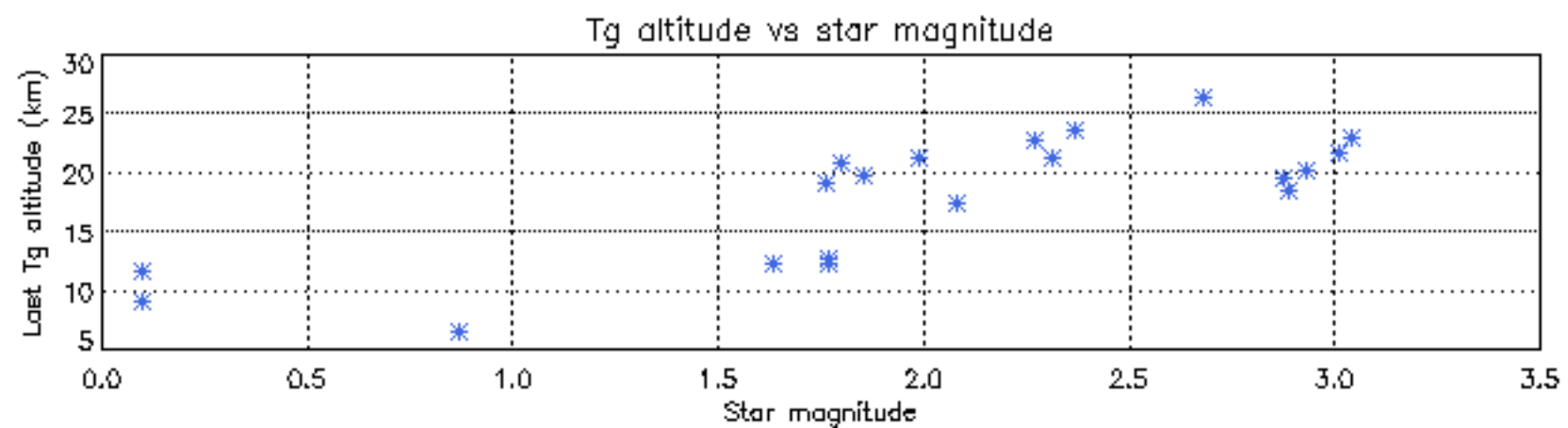
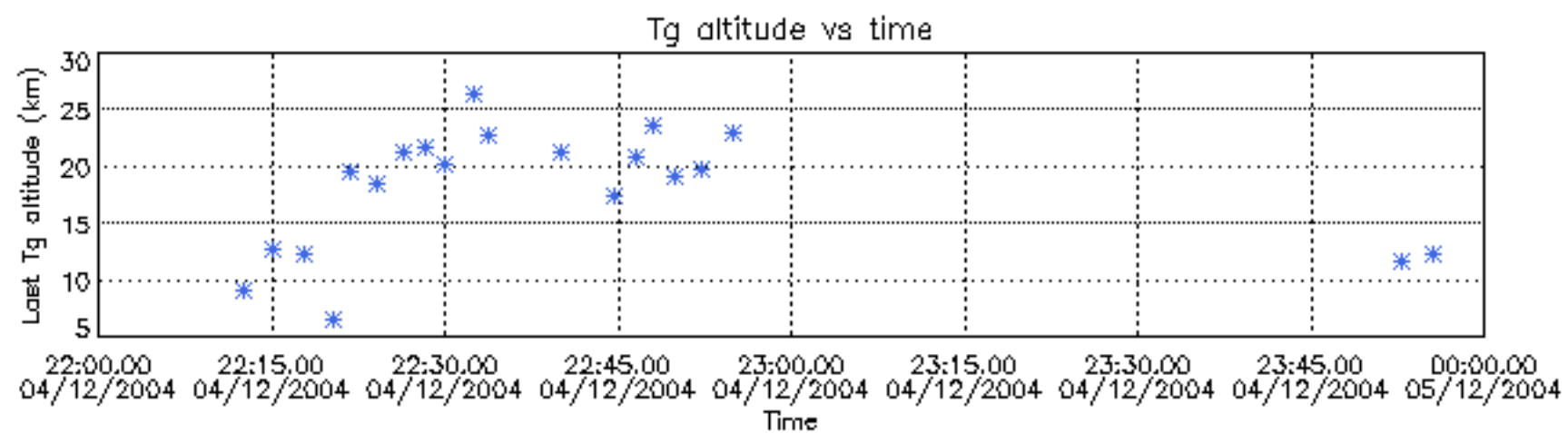
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

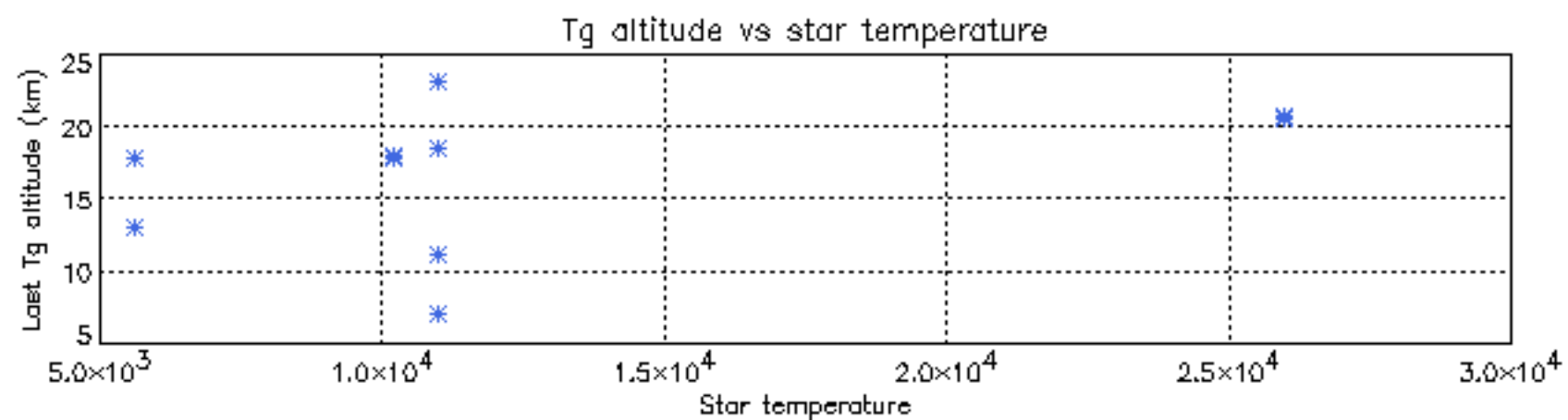
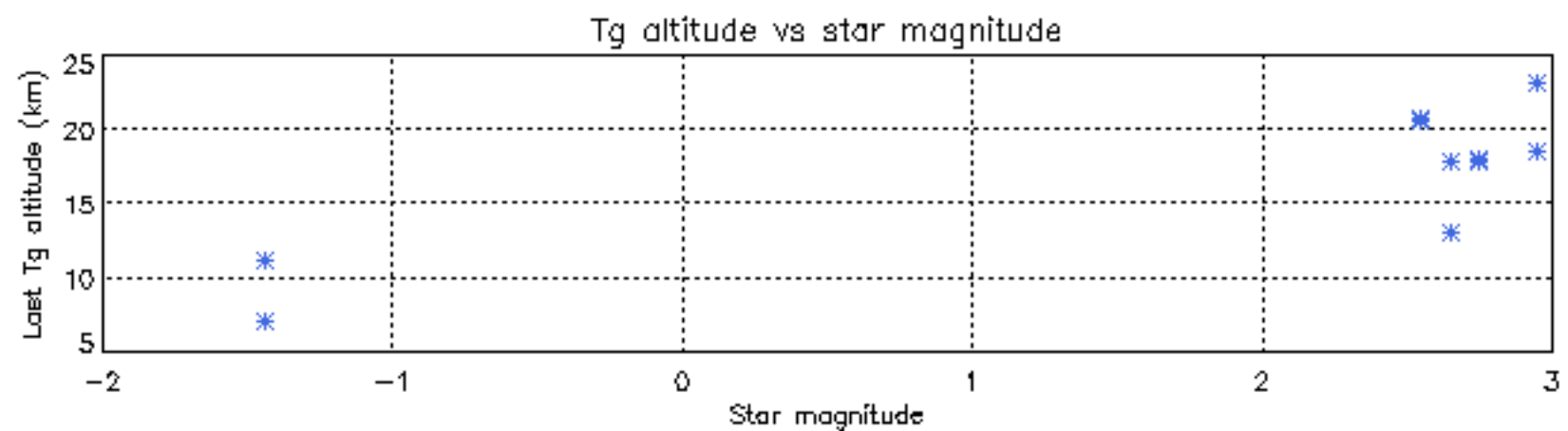
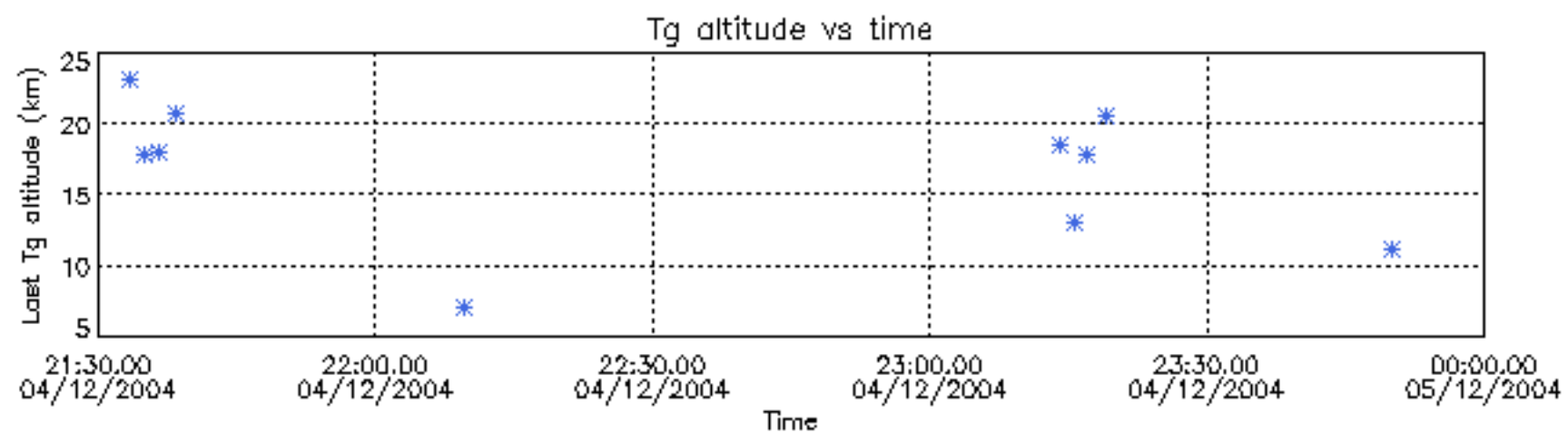


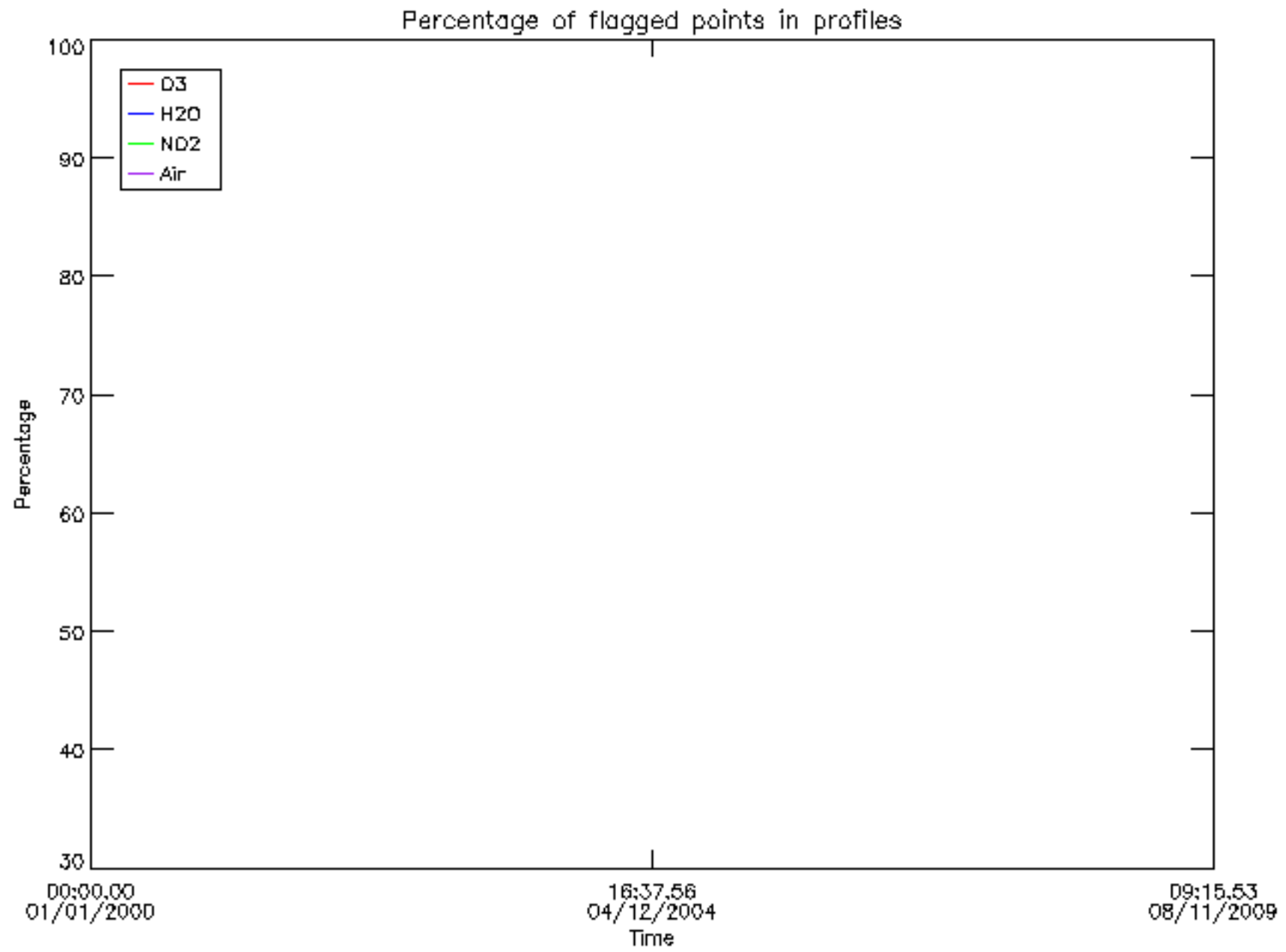
Tangent altitude at which the star is lost



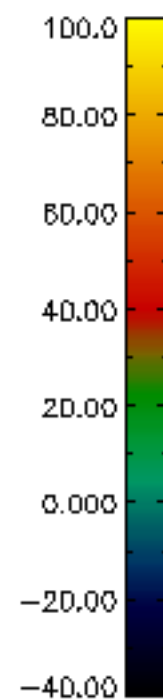
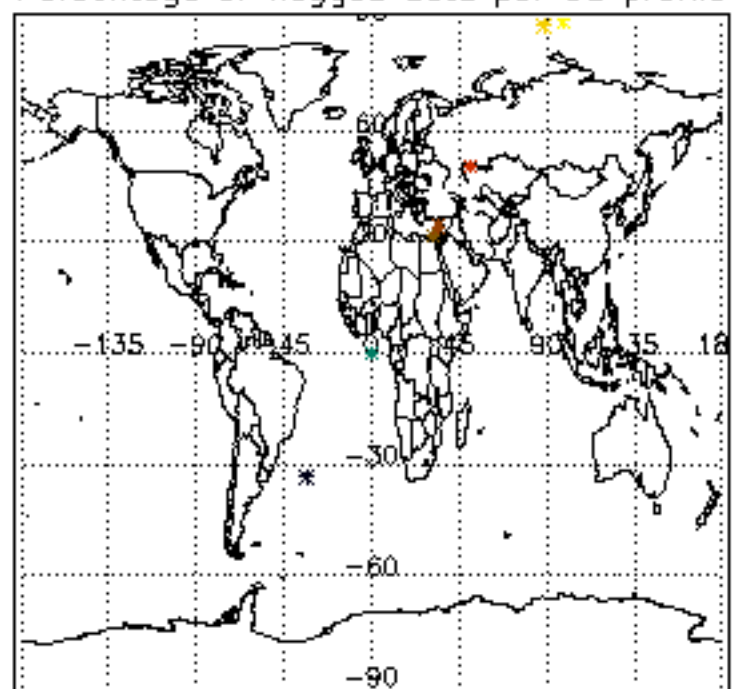


Tangent altitude at which the star is lost

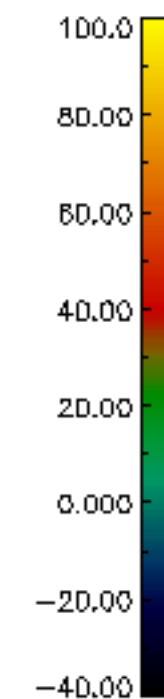
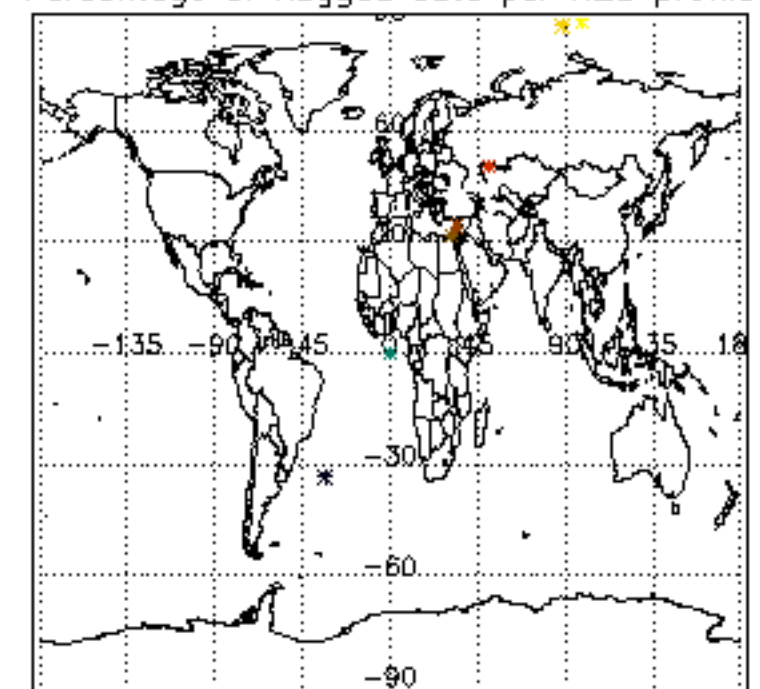




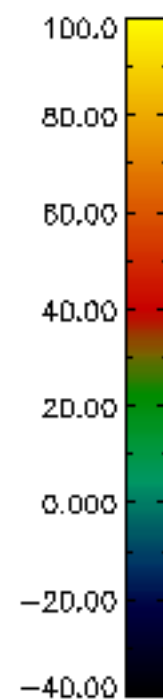
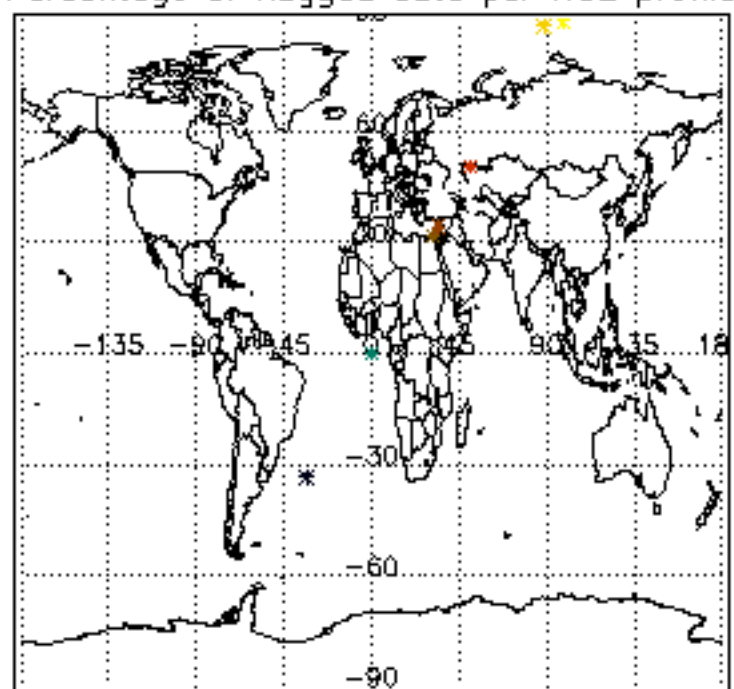
Percentage of flagged data per D3 profile



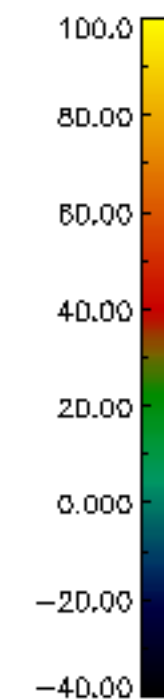
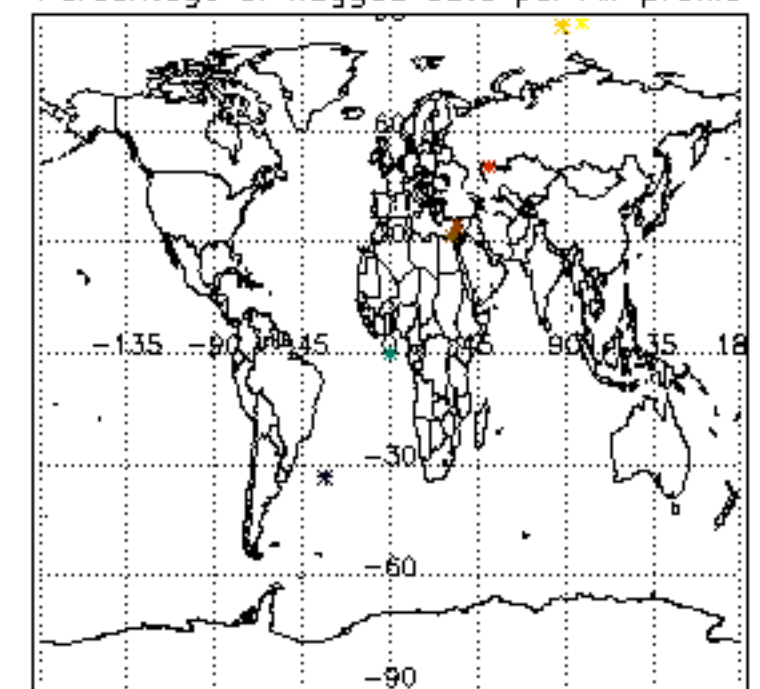
Percentage of flagged data per H2O profile

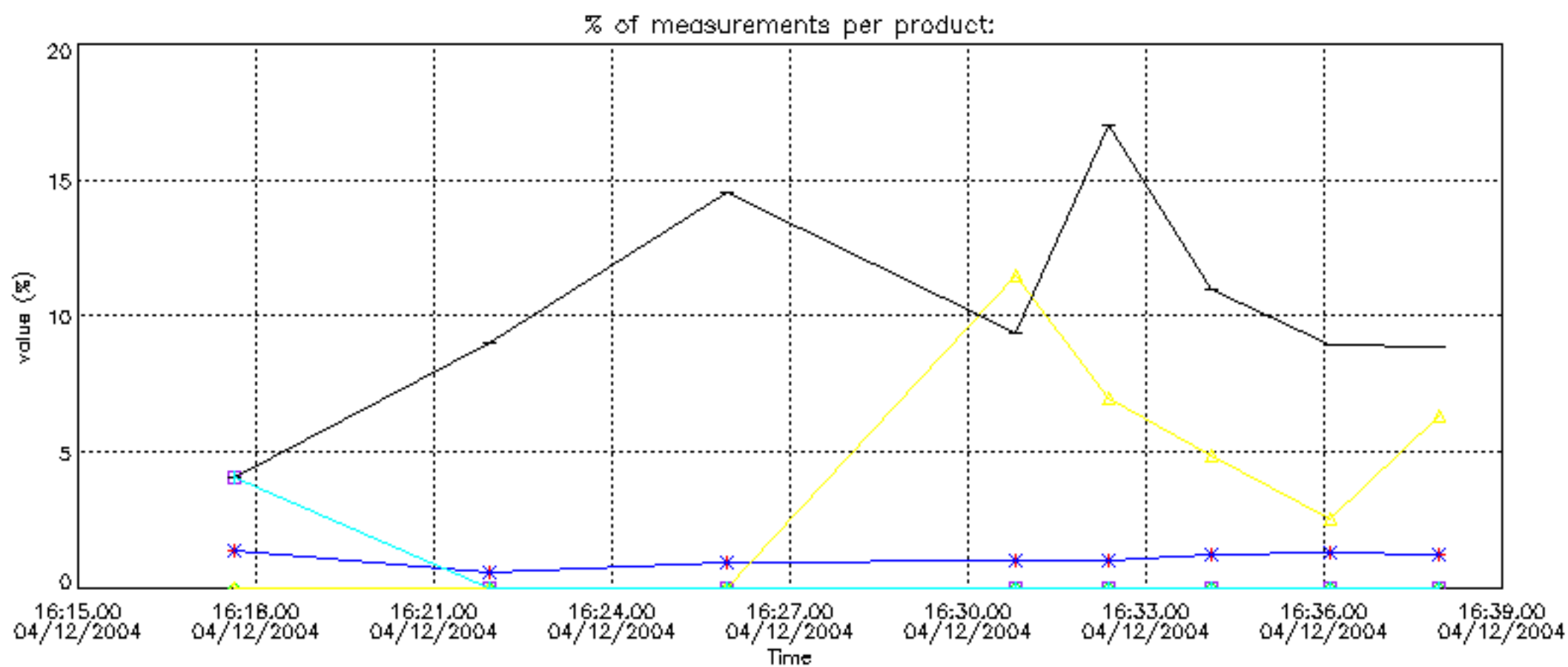


Percentage of flagged data per NO2 profile

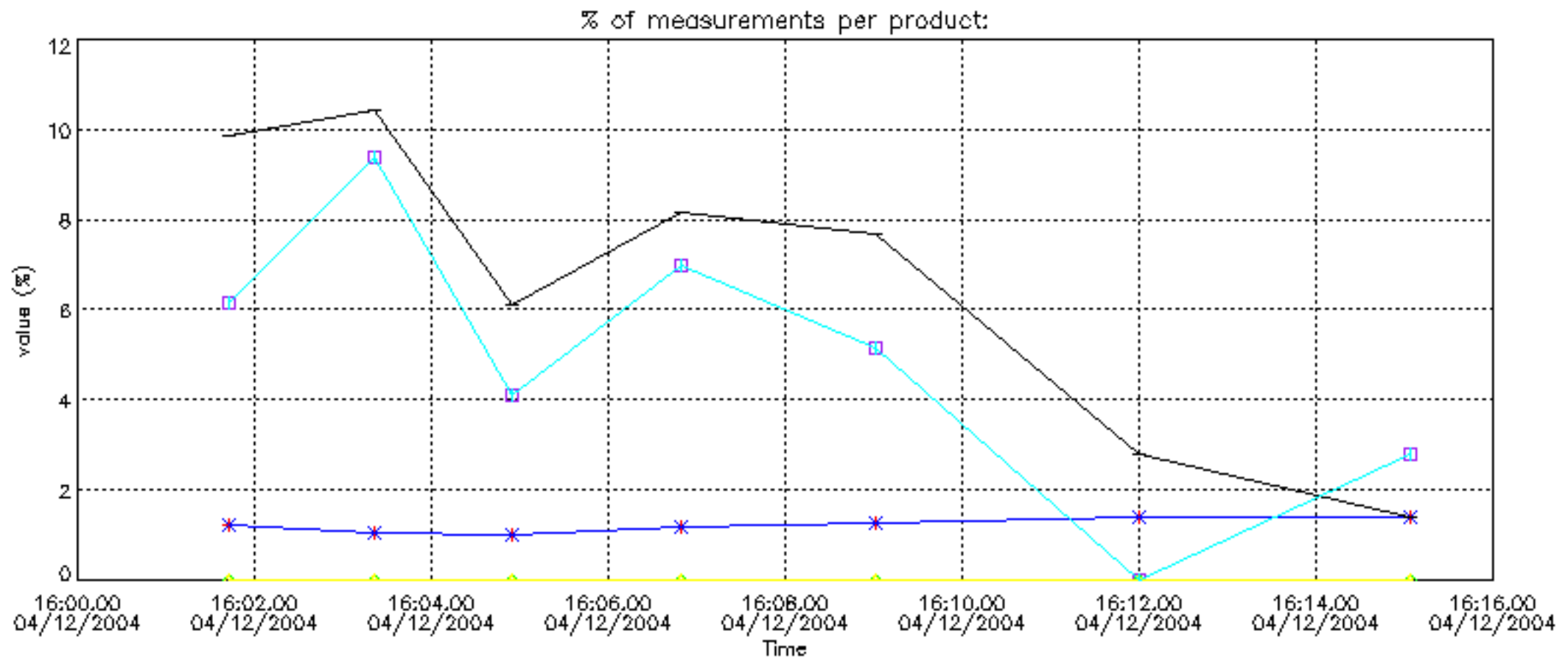


Percentage of flagged data per Air profile

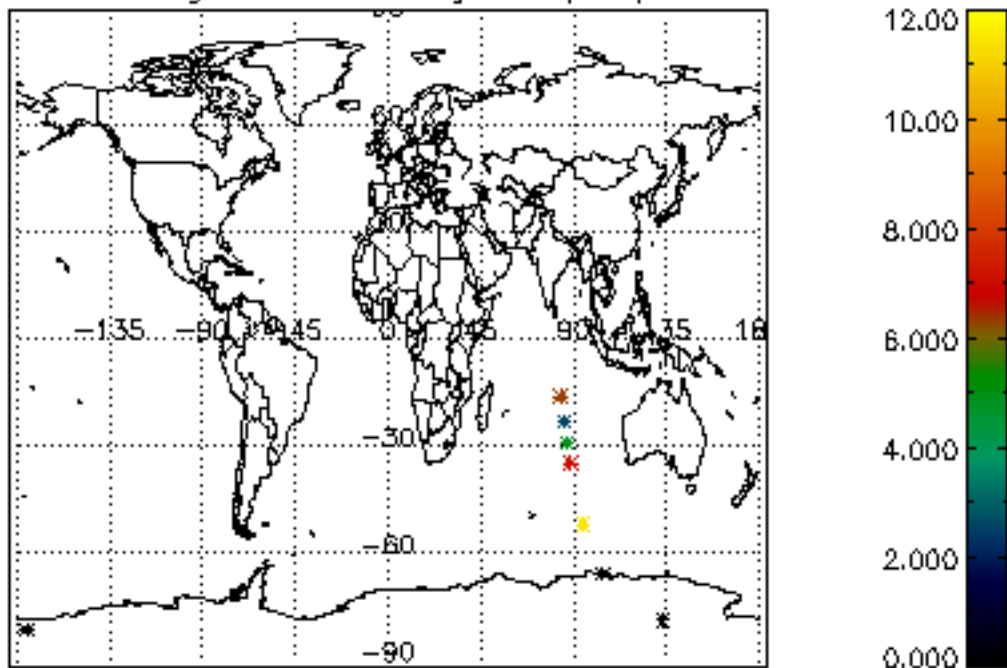




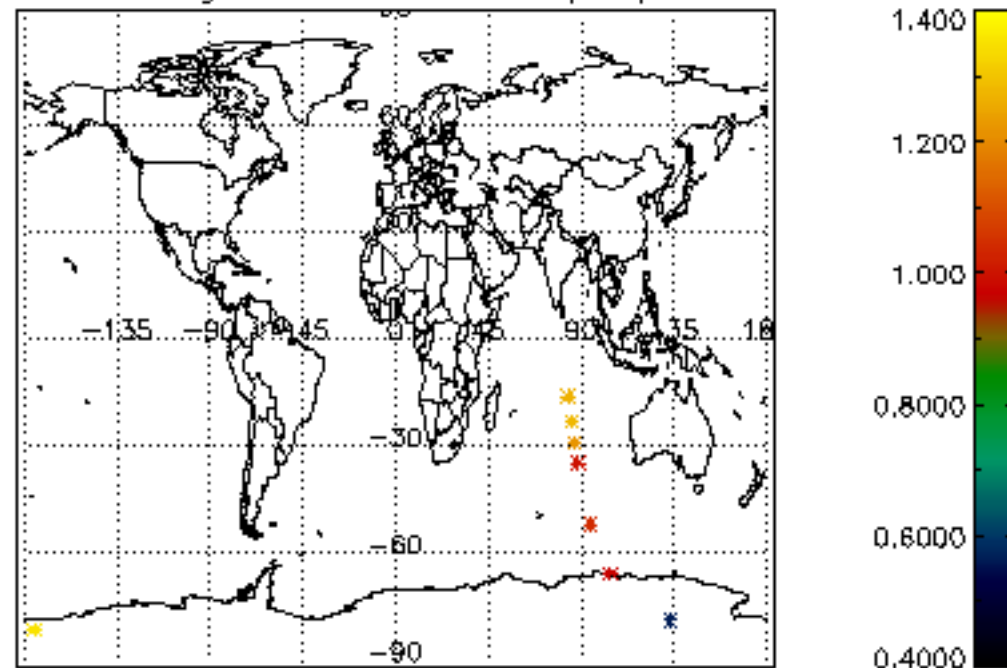




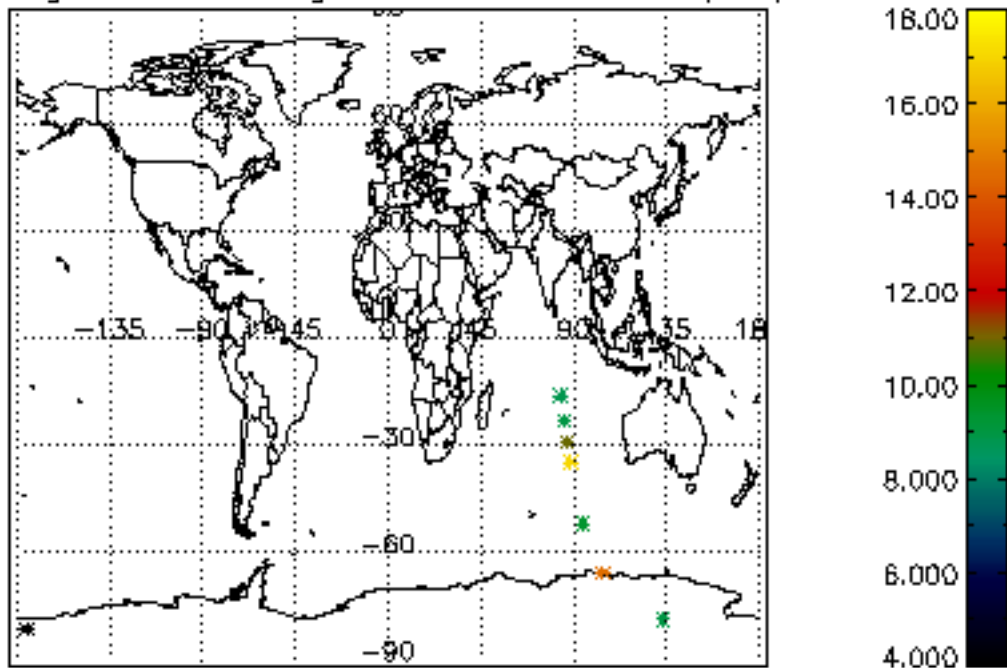
Percentage of cosmic ray hits per profile



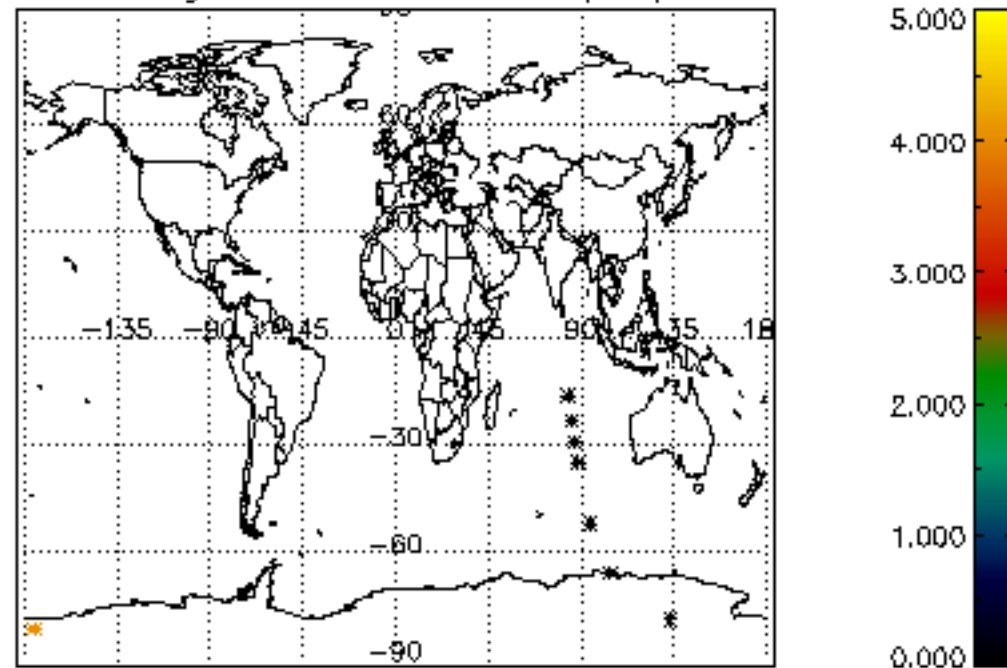
Percentage of datation errors per profile



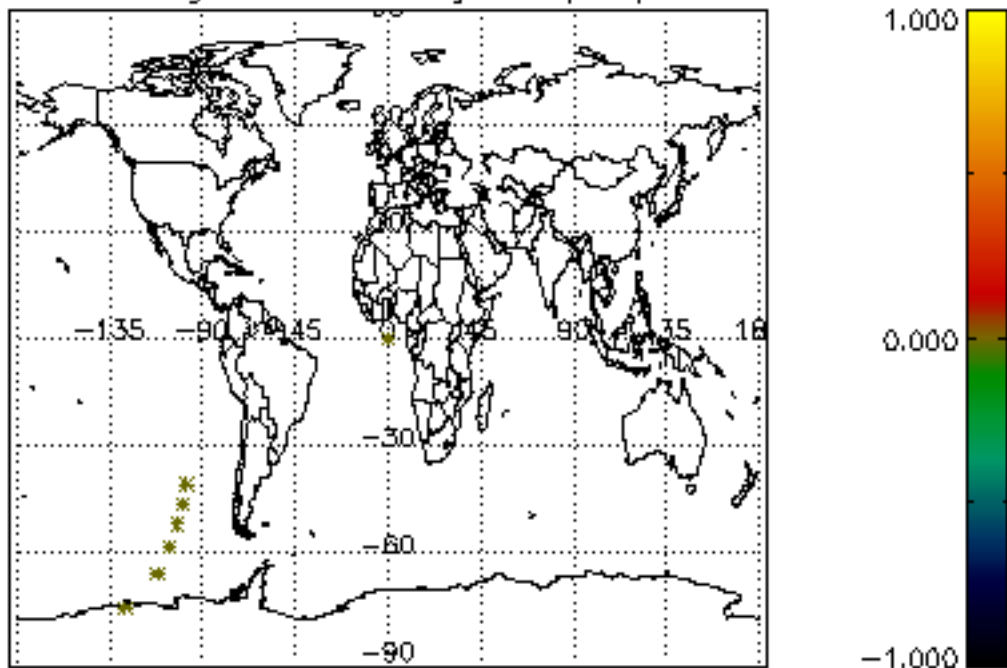
Percentage of star falling outside central band per profile



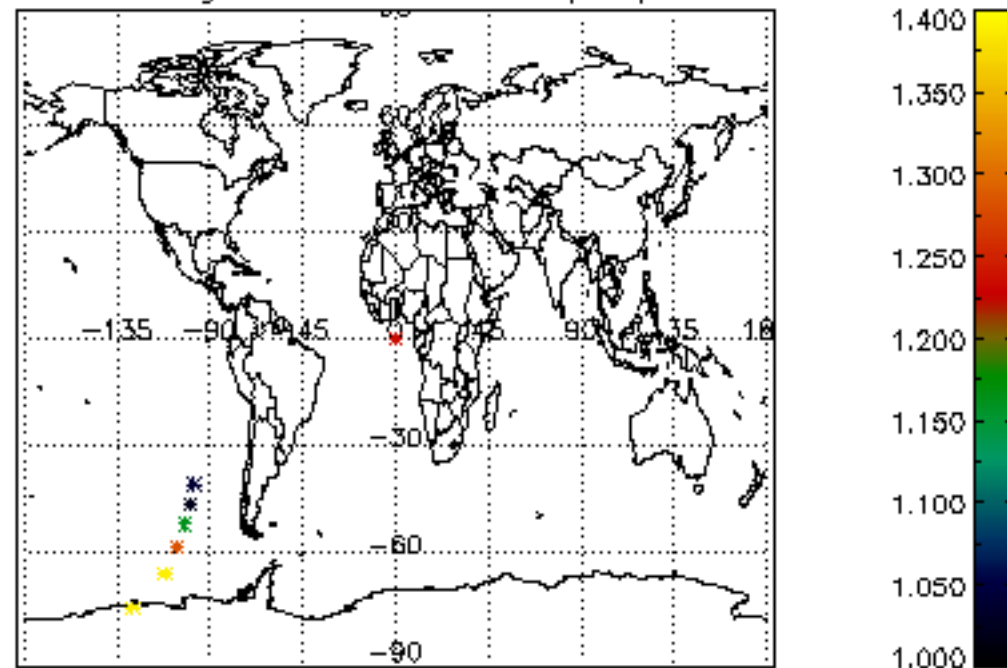
Percentage of saturation errors per profile



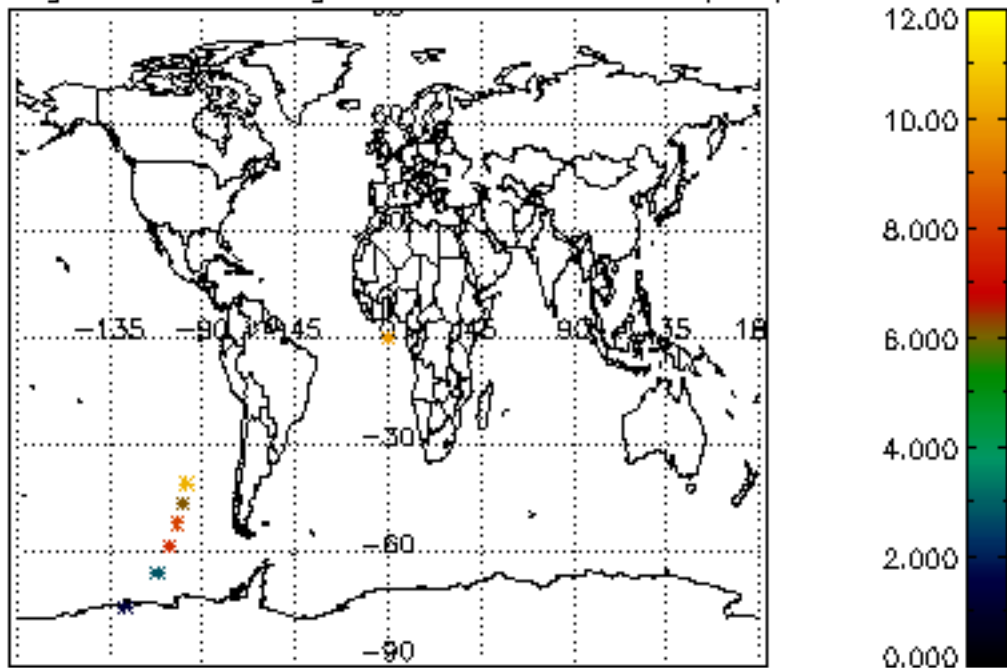
Percentage of cosmic ray hits per profile



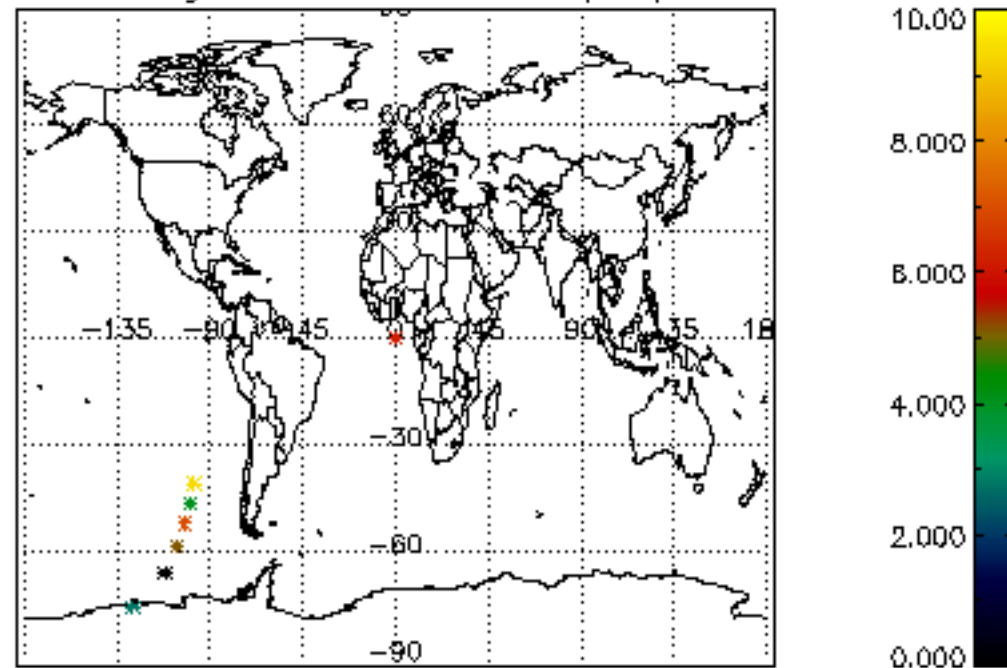
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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 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

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 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  
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 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  
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 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  
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 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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 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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9;-1170.0; 01-DEC-2004 04:31:12; Bright; 76.0; 96; 68Del Leo ; 2.56; 9300;occ; 152; 0;14401
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13; -412.9; 01-DEC-2004 04:43:49; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;14401
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16; 206.4; 01-DEC-2004 04:54:08; Dark ; 40.5; 124; The Car ; 2.76; 30000;occ; 81; 0;14402
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24; 1529.4; 01-DEC-2004 05:16:11; Dark ; 94.5; 1; 9Alp CMa ; -1.44; 11000;occ; 189; 0;14402
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33; 2816.1; 01-DEC-2004 05:37:38; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0;14402
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32;	838.9;	22-DEC-2004	12:27:14;	Dark	;	49.0;	34;	Gam2Vel	;	1.79;	23000;occ;	98;	0;	14707
33;	937.4;	22-DEC-2004	12:28:53;	Dark	;	50.5;	2;	Alp Car	;	-0.74;	7000;occ;	101;	0;	14707
34;	1115.5;	22-DEC-2004	12:31:51;	Dark	;	59.5;	117;	Pi Pup	;	2.71;	3800;occ;	119;	0;	14707
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36;	1399.2;	22-DEC-2004	12:36:35;	Dark	;	51.5;	179;	240mi2CMA	;	3.03;	24000;occ;	103;	0;	14707
37;	1564.3;	22-DEC-2004	12:39:20;	Dark	;	56.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	112;	0;	14707
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9;	-3620.4;	22-DEC-2004	16:14:43;	Bright;	;	43.0;	28;	12Bet Tau	;	1.65;	15200;occ;	86;	0;	14709
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18;	-1908.4;	22-DEC-2004	16:43:15;	Bright;	;	45.0;	39;	85Eta UMa	;	1.85;	24000;occ;	90;	0;	14709
19;	-1691.4;	22-DEC-2004	16:46:52;	Bright;	;	41.0;	180;	27Gam Boo	;	3.04;	8000;occ;	82;	0;	14709
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26;	-244.2;	22-DEC-2004	17:10:59;	Dark	;	39.5;	78;	Alp Lup	;	2.30;	28000;occ;	79;	0;	14709
27;	-37.9;	22-DEC-2004	17:14:25;	Dark	;	45.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	91;	0;	14709
28;	95.9;	22-DEC-2004	17:16:39;	Dark	;	46.5;	20;	Bet Cru	;	1.25;	30000;occ;	93;	0;	14710
29;	202.9;	22-DEC-2004	17:18:26;	Dark	;	39.5;	112;	Alp Mus	;	2.69;	26000;occ;	79;	0;	14710
30;	361.5;	22-DEC-2004	17:21:05;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	14710
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11;	2187.0;	22-DEC-2004	21:12:42;	Dark	;	52.0;	13;	87Alp Tau	;	0.87;	3800;occ;	104;	0;	14712
12;	2290.2;	22-DEC-2004	21:14:26;	Bright;	;	42.0;	176;	23Zet Tau	;	3.02;	22000;occ;	84;	0;	14712
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15;	2710.5;	22-DEC-2004	21:21:26;	Bright;	;	43.5;	6;	13Alp Aur	;	0.08;	3400;occ;	87;	0;	14712
16;	2840.8;	22-DEC-2004	21:23:36;	Bright;	;	38.5;	160;	23Gam Per	;	2.93;	4700;occ;	77;	0;	14712
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18;	3420.4;	22-DEC-2004	21:33:16;	Bright;	;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	14712
19;	3699.0;	22-DEC-2004	21:37:54;	Bright;	;	38.5;	60;	7Bet UMi	;	2.08;	3950;occ;	77;	0;	14712
20;	3909.7;	22-DEC-2004	21:41:25;	Bright;	;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	14712
21;	4002.7;	22-DEC-2004	21:42:58;	Bright;	;	62.0;	55;	79Zet UMa	;	2.06;	10200;occ;	124;	0;	14712
22;	4126.4;	22-DEC-2004	21:45:02;	Bright;	;	44.0;	39;	85Eta UMa	;	1.85;	24000;occ;	88;	0;	14712
23;	4344.5;	22-DEC-2004	21:48:40;	Bright;	;	40.5;	180;	27Gam Boo	;	3.04;	8000;occ;	81;	0;	14712
24;	4547.0;	22-DEC-2004	21:52:02;	Bright;	;	39.5;	83;		;	2.38;	11000;occ;	79;	0;	14712
25;	4764.3;	22-DEC-2004	21:55:40;	Bright;	;	47.0;	111;	8Eta Boo	;	2.68;	6000;occ;	94;	0;	14712
26;	5049.6;	22-DEC-2004	22:00:25;	Dark	;	71.0;	138;	47Eps Vir	;	2.83;	4700;occ;	142;	0;	14712
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2;	-626.0;	22-DEC-2004	22:06:25;	Dark	;	55.5;	15;	67Alp Vir	;	0.98;	28000;occ;	111;	0;	14712
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37;	5300.7;	24-DEC-2004	22:41:58;	Bright;	;	40.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	81;	0;	14741
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 33; 580.5; 25-DEC-2004 19:11:05; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;14754  
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22; 2273.4; 27-DEC-2004 23:37:51; Dark ; 48.5; 176; 23Zet Tau ; 3.02; 22000;occ; 97; 0;14785
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23; 2573.6; 29-DEC-2004 02:32:26; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;14801
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