

GOMOS Daily Report 16-DEC-2004

Level 0 and Level 1 products

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1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	18DEC2004 05:17:22

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (16DEC2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (17DEC2004 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

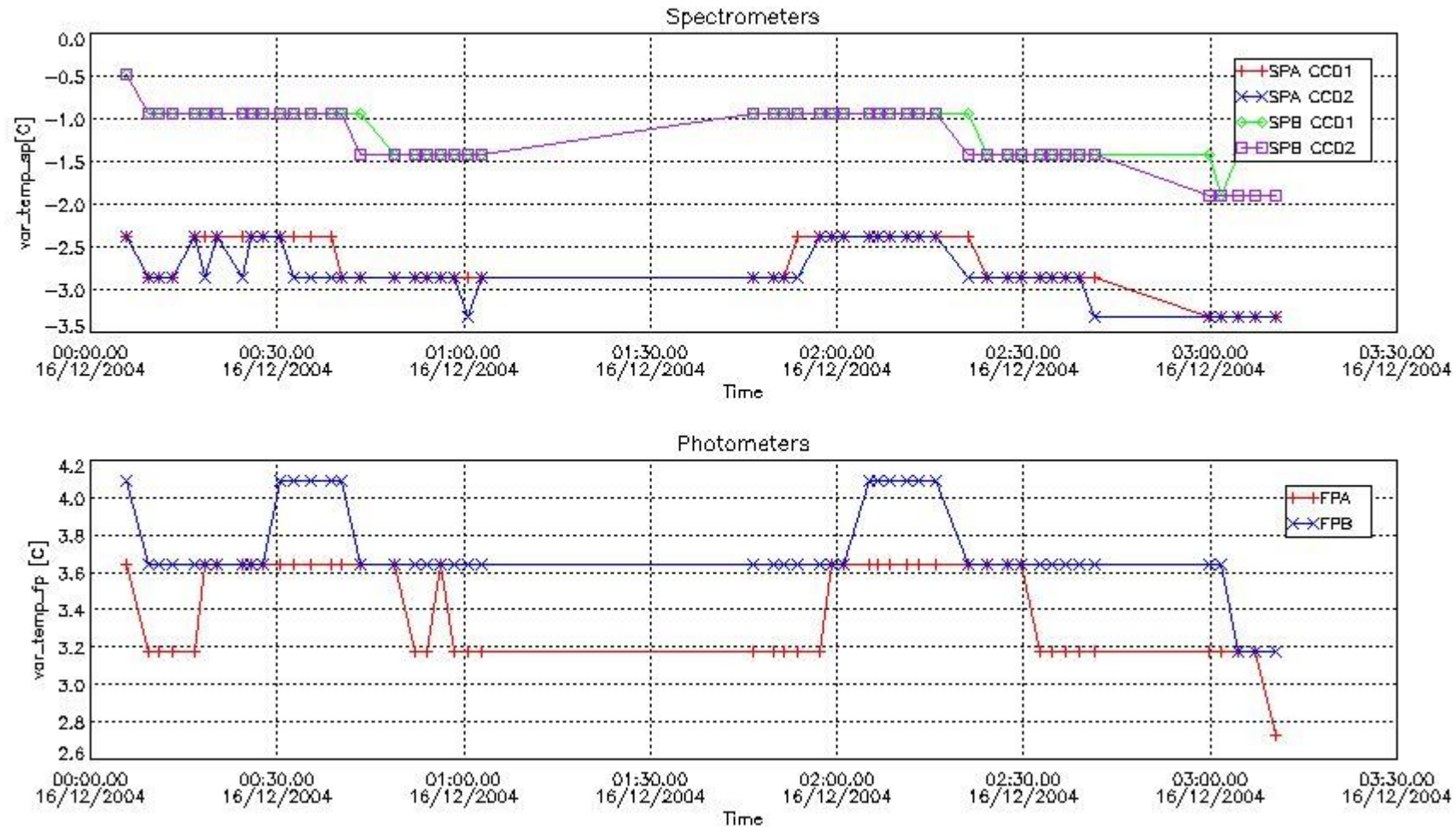
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20041216_000545_000000552033_00030_14613_0000.N1	16-DEC-2004 00:05:45	Twilight	54.500	15	67Alp Vir	0.97600	28000.	109	14613	Yes
2	GOM_TRA_1PNPDE20041216_000916_000000492033_00030_14613_0001.N1	16-DEC-2004 00:09:16	Twilight	48.500	169	46Gam Hya	2.9910	4700.0	97	14613	No
3	GOM_TRA_1PNPDE20041216_001054_000000482033_00030_14613_0002.N1	16-DEC-2004 00:10:54	Twilight	48.000	54	5The Cen	2.0550	4500.0	96	14613	No
4	GOM_TRA_1PNPDE20041216_001303_000000412033_00030_14613_0003.N1	16-DEC-2004 00:13:03	Twilight	41.000	78	Alp Lup	2.3040	28000.	82	14613	No
5	GOM_TRA_1PNPDE20041216_001639_000000432033_00030_14613_0004.N1	16-DEC-2004 00:16:39	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	14613	No
6	GOM_TRA_1PNPDE20041216_001825_000000532033_00031_14614_0005.N1	16-DEC-2004 00:18:25	Dark	52.500	20	Bet Cru	1.2530	30000.	105	14614	No
7	GOM_TRA_1PNPDE20041216_002024_000000412033_00031_14614_0006.N1	16-DEC-2004 00:20:24	Dark	41.000	112	Alp Mus	2.6880	26000.	82	14614	No
8	GOM_TRA_1PNPDE20041216_002430_000000422033_00031_14614_0007.N1	16-DEC-2004 00:24:30	Dark	41.500	159	Ups Car	2.9200	7200.0	83	14614	No
9	GOM_TRA_1PNPDE20041216_002552_000000422033_00031_14614_0008.N1	16-DEC-2004 00:25:52	Dark	42.000	71	lot Car	2.2460	7700.0	84	14614	No
10	GOM_TRA_1PNPDE20041216_002746_000000492033_00031_14614_0009.N1	16-DEC-2004 00:27:46	Dark	49.000	41	Eps Car	1.8600	4100.0	98	14614	No
11	GOM_TRA_1PNPDE20041216_003032_000000512033_00031_14614_0010.N1	16-DEC-2004 00:30:32	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	14614	No
12	GOM_TRA_1PNPDE20041216_003238_000000552033_00031_14614_0011.N1	16-DEC-2004 00:32:38	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	14614	No
13	GOM_TRA_1PNPDE20041216_003523_000000552033_00031_14614_0012.N1	16-DEC-2004 00:35:23	Dark	55.000	117	Pi Pup	2.7060	3800.0	110	14614	No
14	GOM_TRA_1PNPDE20041216_003838_000000582033_00031_14614_0013.N1	16-DEC-2004 00:38:38	Dark	57.500	23	21Eps CMa	1.5020	26000.	115	14614	No
15	GOM_TRA_1PNPDE20041216_004026_000000572033_00031_14614_0014.N1	16-DEC-2004 00:40:26	Dark	56.500	179	24Omi2CMa	3.0320	24000.	113	14614	No
16	GOM_TRA_1PNPDE20041216_004329_000000642033_00031_14614_0015.N1	16-DEC-2004 00:43:29	Twilight	64.000	1	9Alp CMa	-1.4400	11000.	128	14614	No
17	GOM_TRA_1PNPDE20041216_004857_000000532033_00031_14614_0017.N1	16-DEC-2004 00:48:57	Bright	52.500	30	46Eps Ori	1.6940	30000.	105	14614	No
18	GOM_TRA_1PNPDE20041216_005204_000000672033_00031_14614_0018.N1	16-DEC-2004 00:52:04	Bright	67.000	14	58Alp Ori	0.87000	3000.0	134	14614	No
19	GOM_TRA_1PNPDE20041216_005402_000000532033_00031_14614_0019.N1	16-DEC-2004 00:54:02	Bright	53.000	13	87Alp Tau	0.86700	3800.0	106	14614	No
20	GOM_TRA_1PNPDE20041216_005612_000000402033_00031_14614_0020.N1	16-DEC-2004 00:56:12	Bright	40.000	146	25Eta Tau	2.8730	15200.	80	14614	No
21	GOM_TRA_1PNPDE20041216_005823_000000392033_00031_14614_0021.N1	16-DEC-2004 00:58:23	Bright	39.000	150	44Zet Per	2.8900	28000.	78	14614	No
22	GOM_TRA_1PNPDE20041216_010041_000000372033_00031_14614_0022.N1	16-DEC-2004 01:00:41	Bright	37.000	149	45Eps Per	2.8880	30000.	74	14614	No
23	GOM_TRA_1PNPDE20041216_010253_000000362033_00031_14614_0023.N1	16-DEC-2004 01:02:53	Bright	36.000	175	39Del Per	3.0100	19400.	72	14614	No
24	GOM_TRA_1PNPDE20041216_014623_000000562033_00031_14614_0000.N1	16-DEC-2004 01:46:23	Twilight	55.500	15	67Alp Vir	0.97600	28000.	111	14614	No
25	GOM_TRA_1PNPDE20041216_014953_000000492033_00031_14614_0001.N1	16-DEC-2004 01:49:53	Twilight	49.000	169	46Gam Hya	2.9910	4700.0	98	14614	No
26	GOM_TRA_1PNPDE20041216_015130_000000472033_00031_14614_0002.N1	16-DEC-2004 01:51:30	Twilight	46.500	54	5The Cen	2.0550	4500.0	93	14614	No
27	GOM_TRA_1PNPDE20041216_015339_000000412033_00031_14614_0003.N1	16-DEC-2004 01:53:39	Twilight	40.500	78	Alp Lup	2.3040	28000.	81	14614	No
28	GOM_TRA_1PNPDE20041216_015714_000000432033_00031_14614_0004.N1	16-DEC-2004 01:57:14	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	14614	No
29	GOM_TRA_1PNPDE20041216_015902_000000412033_00032_14615_0005.N1	16-DEC-2004 01:59:02	Dark	40.500	20	Bet Cru	1.2530	30000.	81	14615	No
30	GOM_TRA_1PNPDE20041216_020103_000000392033_00032_14615_0006.N1	16-DEC-2004 02:01:03	Dark	39.000	112	Alp Mus	2.6880	26000.	78	14615	No
31	GOM_TRA_1PNPDE20041216_020507_000000422033_00032_14615_0007.N1	16-DEC-2004 02:05:07	Dark	41.500	159	Ups Car	2.9200	7200.0	83	14615	No
32	GOM_TRA_1PNPDE20041216_020629_000000432033_00032_14615_0008.N1	16-DEC-2004 02:06:29	Dark	43.000	71	lot Car	2.2460	7700.0	86	14615	No
33	GOM_TRA_1PNPDE20041216_020822_000000542033_00032_14615_0009.N1	16-DEC-2004 02:08:22	Dark	53.500	41	Eps Car	1.8600	4100.0	107	14615	No
34	GOM_TRA_1PNPDE20041216_021109_000000492033_00032_14615_0010.N1	16-DEC-2004 02:11:09	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	14615	No
35	GOM_TRA_1PNPDE20041216_021314_000000502033_00032_14615_0011.N1	16-DEC-2004 02:13:14	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	14615	No
36	GOM_TRA_1PNPDE20041216_021600_000000562033_00032_14615_0012.N1	16-DEC-2004 02:16:00	Dark	55.500	117	Pi Pup	2.7060	3800.0	111	14615	No
37	GOM_TRA_1PNPDE20041216_022102_000000562033_00032_14615_0014.N1	16-DEC-2004 02:21:02	Dark	56.000	179	24Omi2CMa	3.0320	24000.	112	14615	No
38	GOM_TRA_1PNPDE20041216_022405_000000732033_00032_14615_0015.N1	16-DEC-2004 02:24:05	Twilight	72.500	1	9Alp CMa	-1.4400	11000.	145	14615	No
39	GOM_TRA_1PNPDE20041216_022717_000000542033_00032_14615_0016.N1	16-DEC-2004 02:27:17	Bright	54.000	7	19Bet Ori	0.10000	14000.	108	14615	No
40	GOM_TRA_1PNPDE20041216_022931_000000522033_00032_14615_0017.N1	16-DEC-2004 02:29:31	Bright	52.000	30	46Eps Ori	1.6940	30000.	104	14615	No
41	GOM_TRA_1PNPDE20041216_023240_000000622033_00032_14615_0018.N1	16-DEC-2004 02:32:40	Bright	61.500	14	58Alp Ori	0.87000	3000.0	123	14615	No
42	GOM_TRA_1PNPDE20041216_023439_000000542033_00032_14615_0019.N1	16-DEC-2004 02:34:39	Bright	54.000	13	87Alp Tau	0.86700	3800.0	108	14615	No
43	GOM_TRA_1PNPDE20041216_023648_000000422033_00032_14615_0020.N1	16-DEC-2004 02:36:48	Bright	41.500	146	25Eta Tau	2.8730	15200.	83	14615	No
44	GOM_TRA_1PNPDE20041216_023859_000000402033_00032_14615_0021.N1	16-DEC-2004 02:38:59	Bright	39.500	150	44Zet Per	2.8900	28000.	79	14615	No
45	GOM_TRA_1PNPDE20041216_024116_000000392033_00032_14615_0022.N1	16-DEC-2004 02:41:16	Bright	38.500	149	45Eps Per	2.8880	30000.	77	14615	No
46	GOM_TRA_1PNPDE20041216_025954_000000392033_00032_14615_0000.N1	16-DEC-2004 02:59:54	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	14615	No

47	GOM_TRA_1PNPDE20041216_030141_000000532033_00032_14615_0001.N1	16-DEC-2004 03:01:41	Bright	52.500	82	48Bet UMa	2.3650	10600.	105	14615	No
48	GOM_TRA_1PNPDE20041216_030431_000000432033_00032_14615_0002.N1	16-DEC-2004 03:04:31	Bright	42.500	32	77Eps UMa	1.7630	11000.	85	14615	No
49	GOM_TRA_1PNPDE20041216_030705_000000422033_00032_14615_0003.N1	16-DEC-2004 03:07:05	Bright	42.000	39	85Eta UMa	1.8540	24000.	84	14615	No
50	GOM_TRA_1PNPDE20041216_031027_000000392033_00032_14615_0004.N1	16-DEC-2004 03:10:27	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	14615	No

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



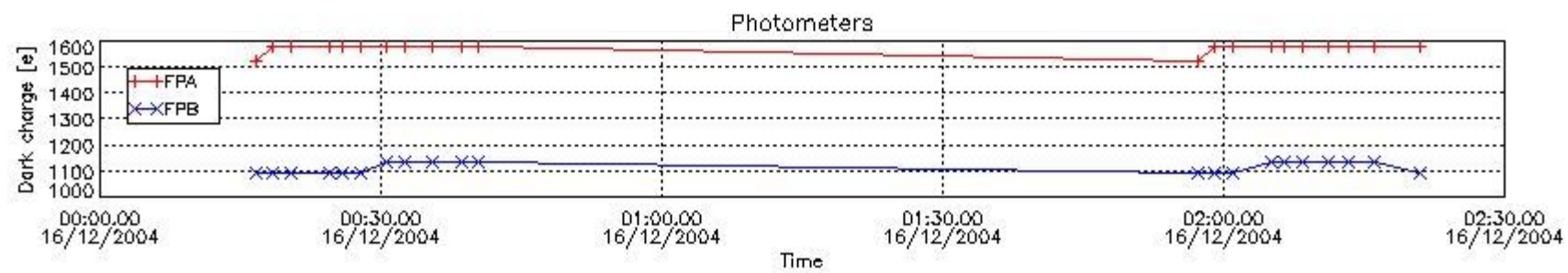
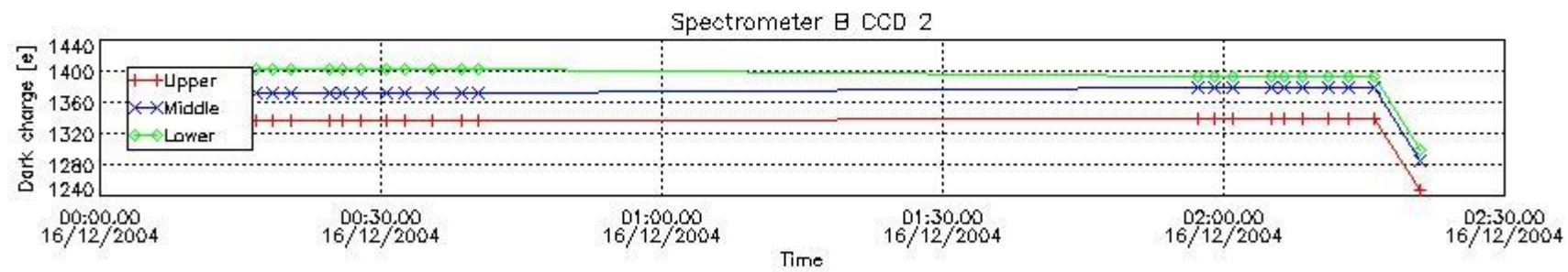
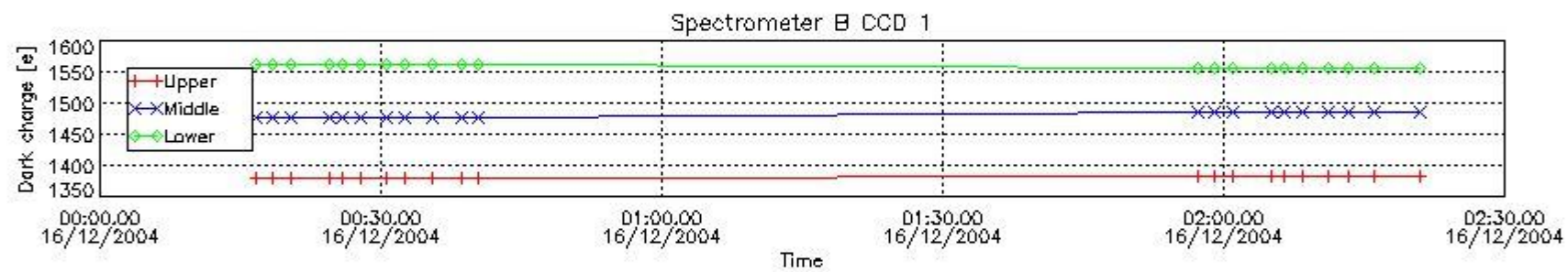
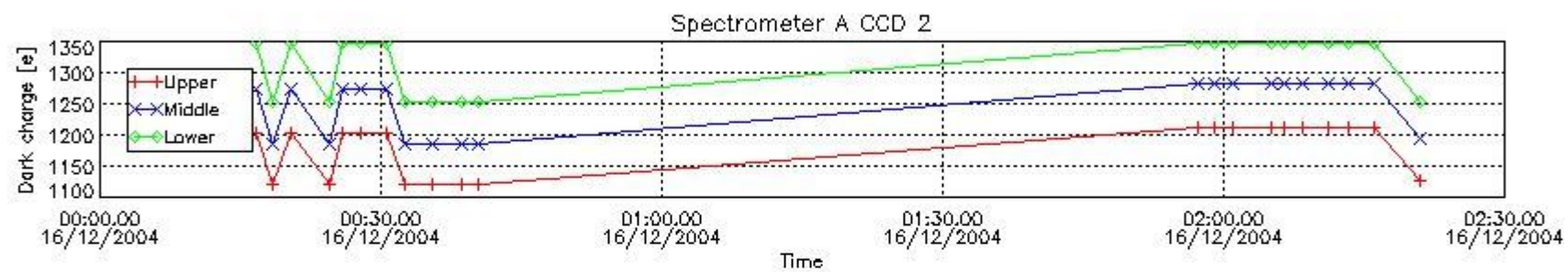
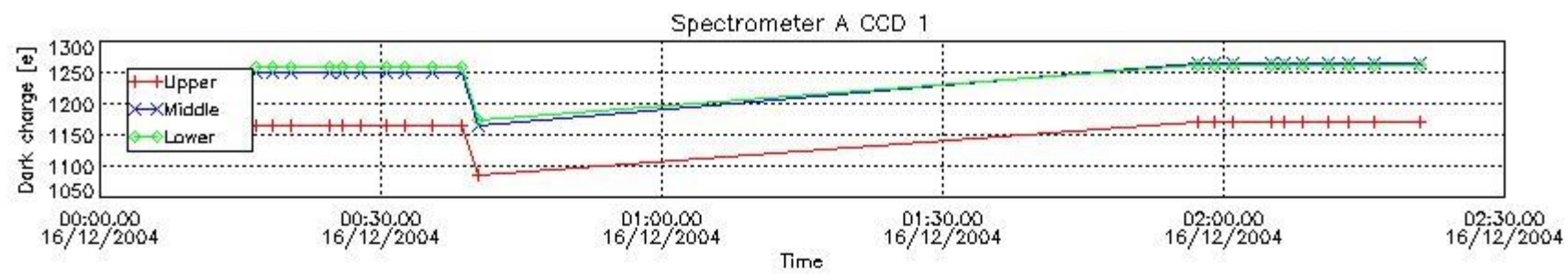
4. Overview of dark signal processing per product

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



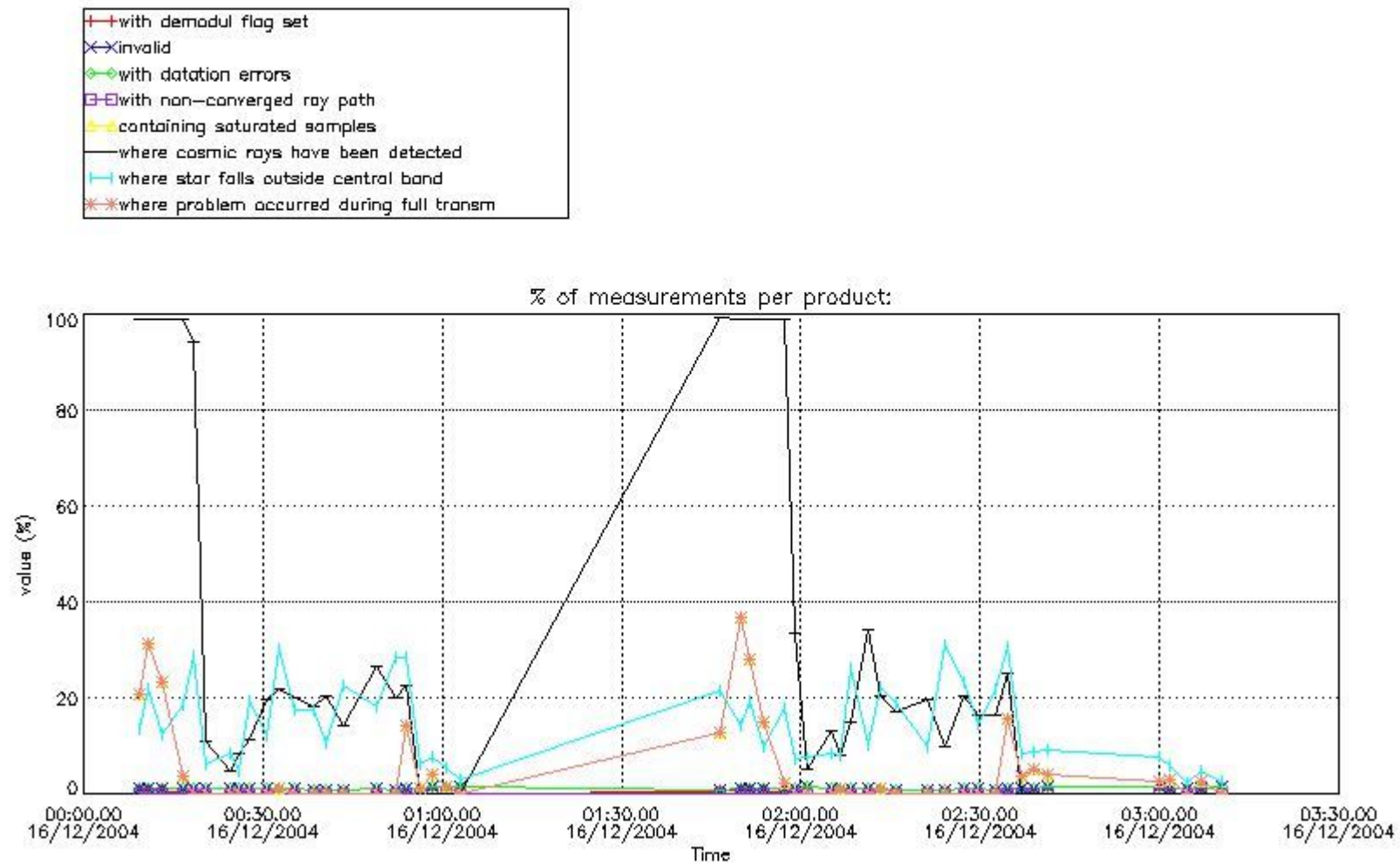
5. Demodulation flag and quality information monitoring

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.

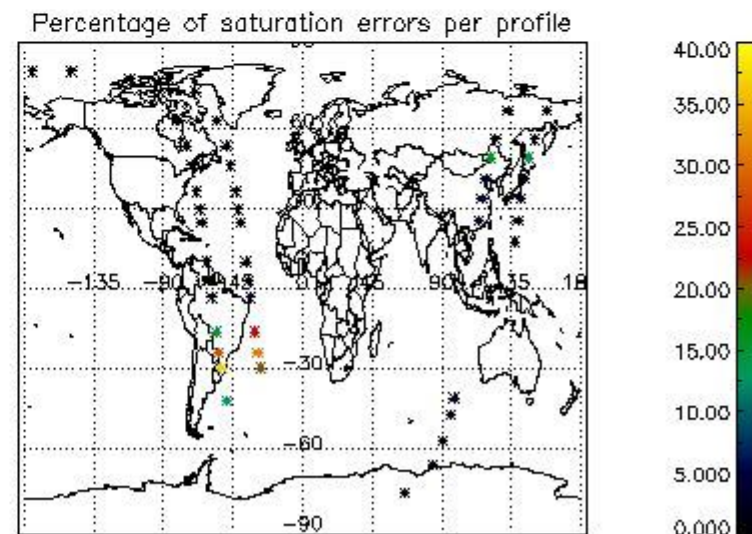
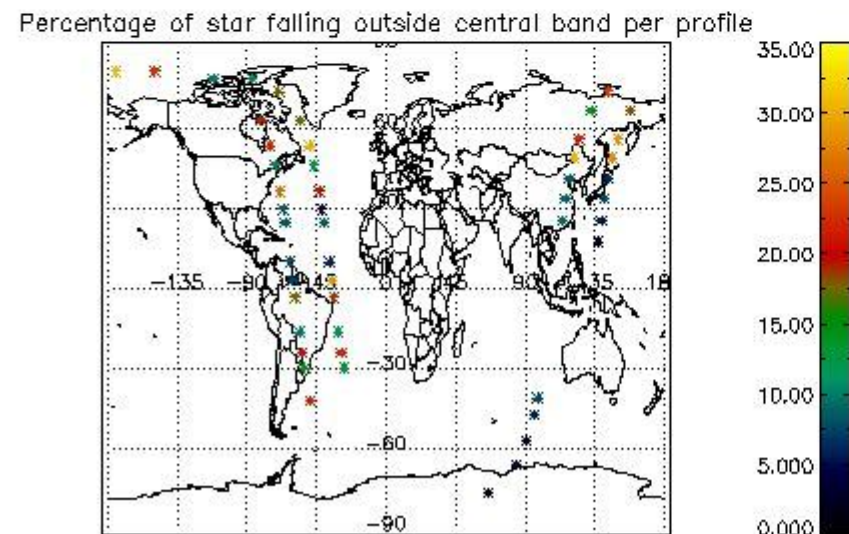
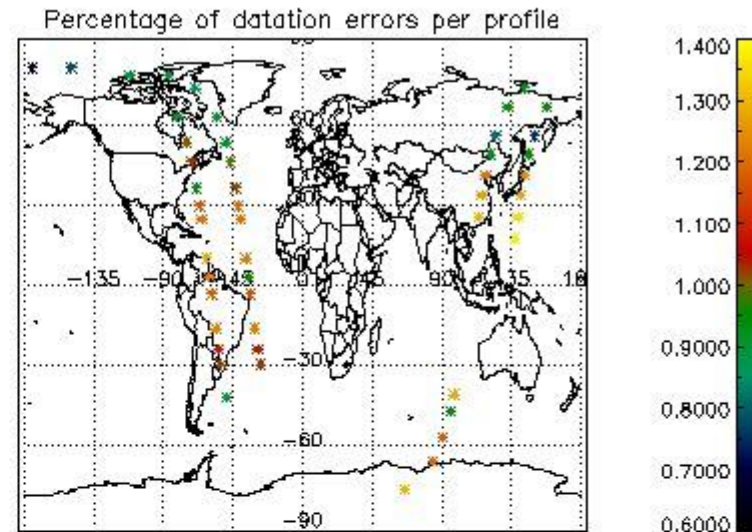
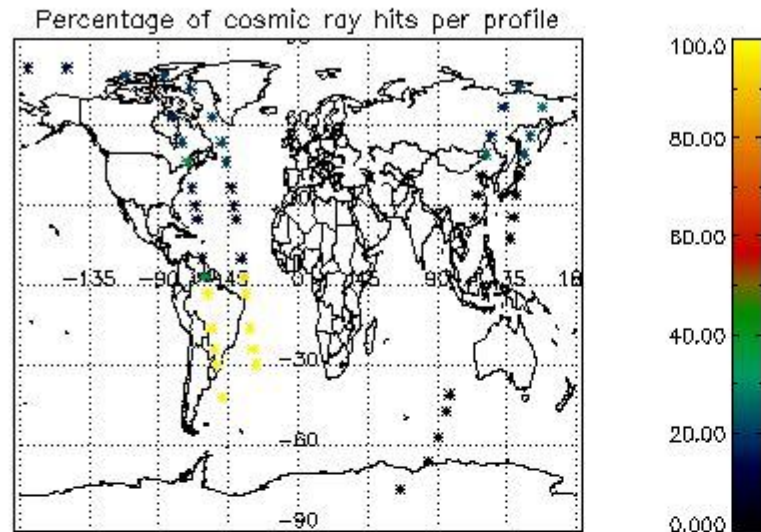
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.5714 %
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)



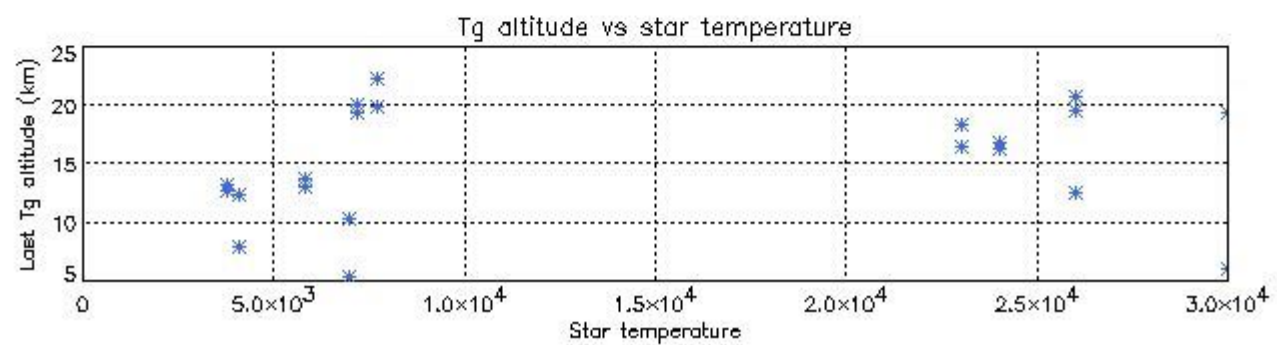
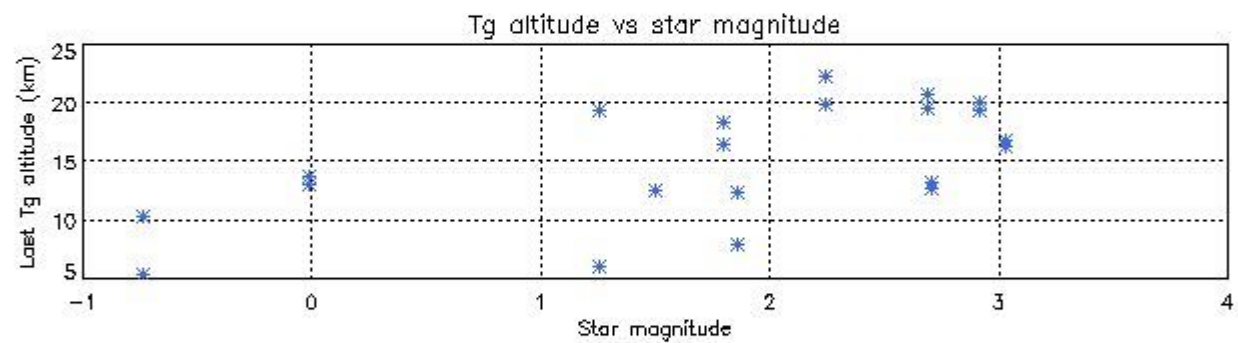
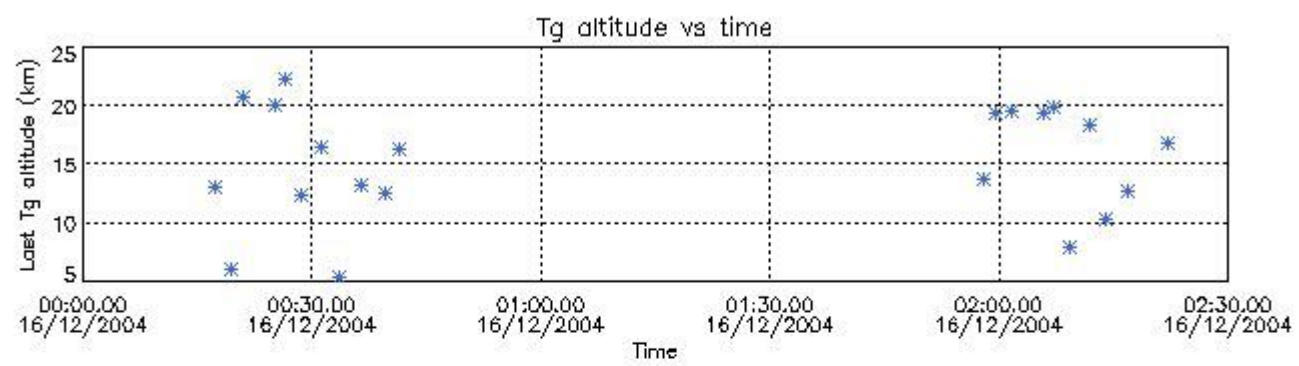
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.040	16.625	12.424
St. deviation:	4.9289	6.2387	3.6305
Maximum:	22.320	24.423	17.600
Minimum:	5.3143	6.2254	5.8951
Number of data:	21.000	19.000	9.0000

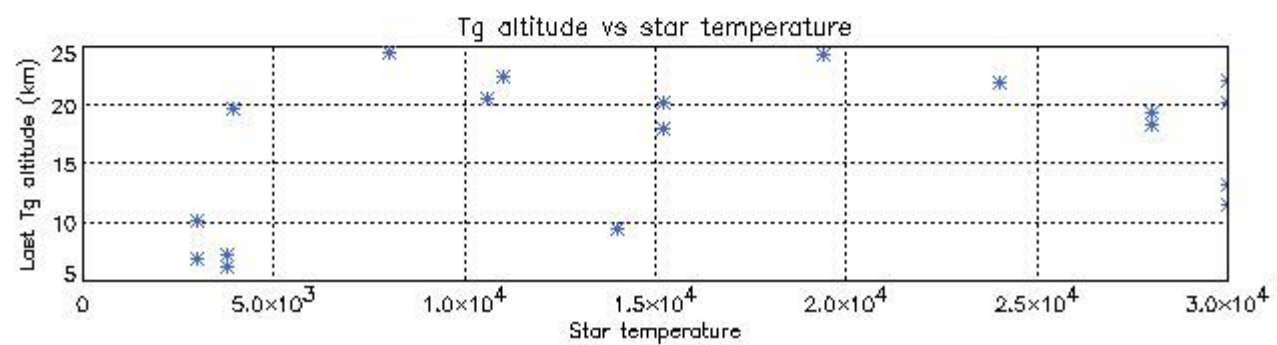
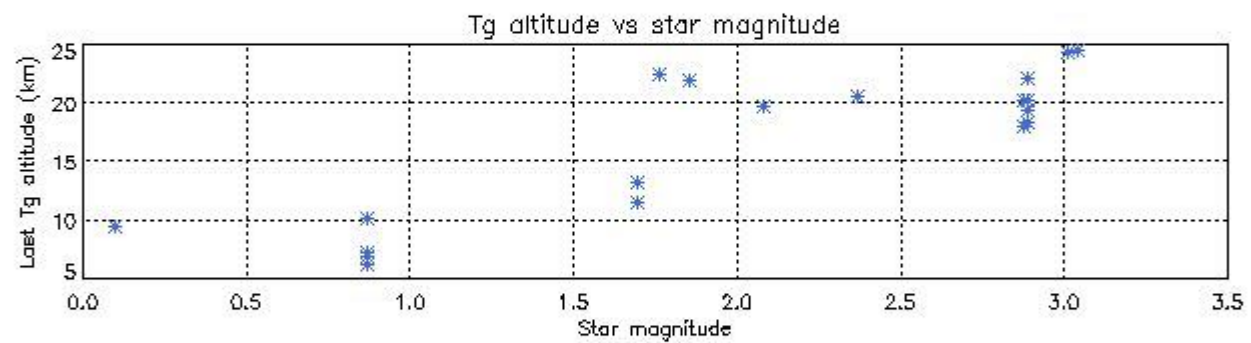
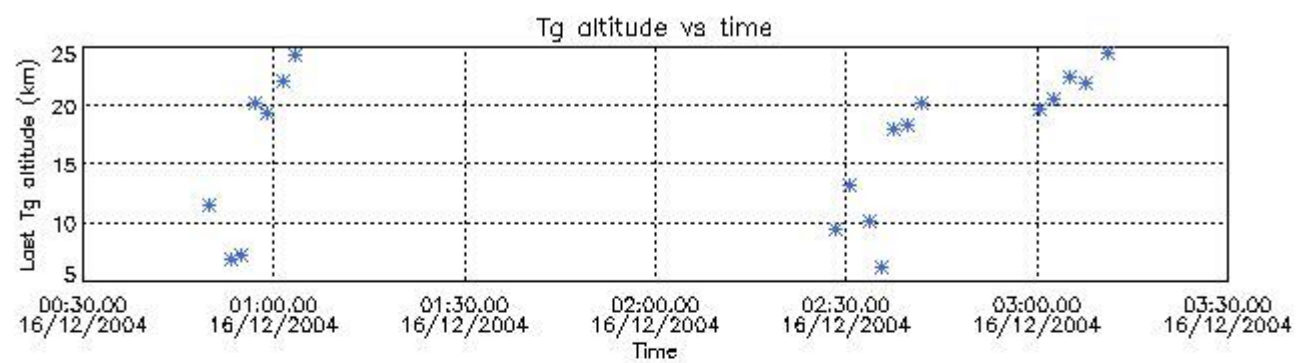
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



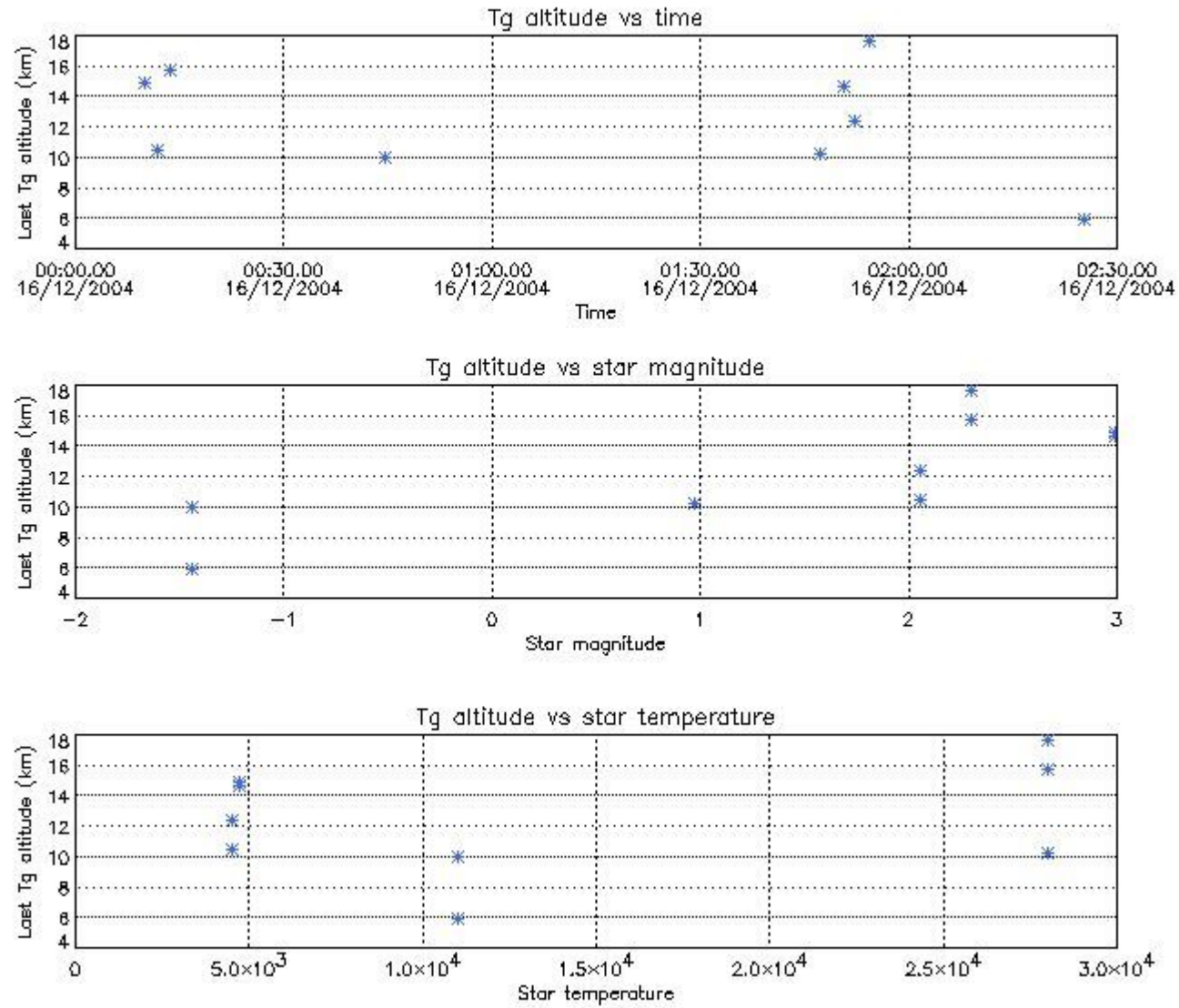
6.3 Plot for BRIGHT limb products

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

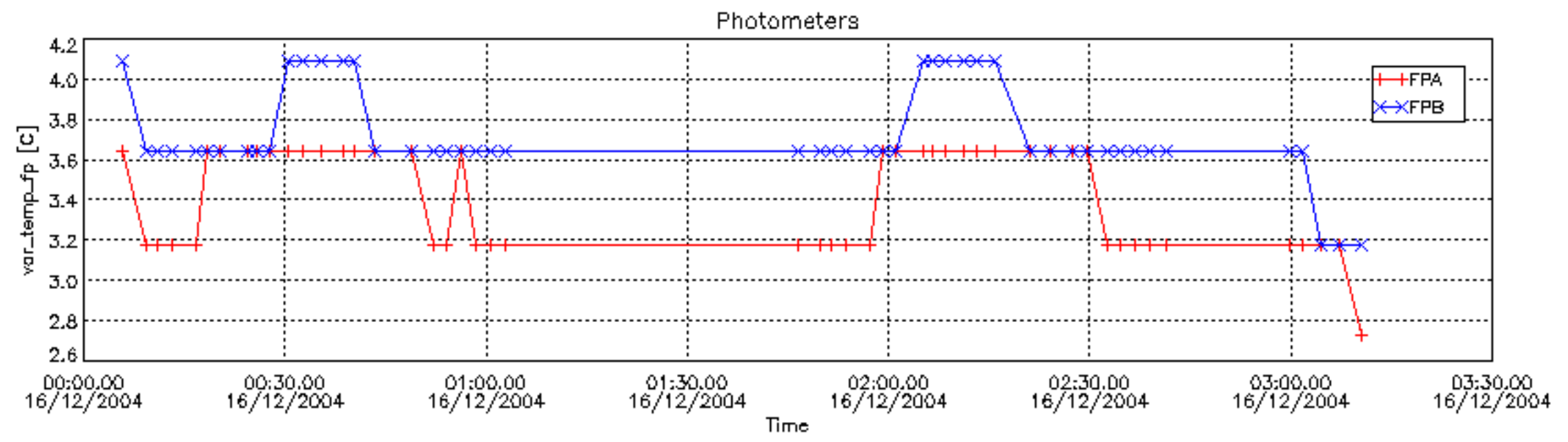
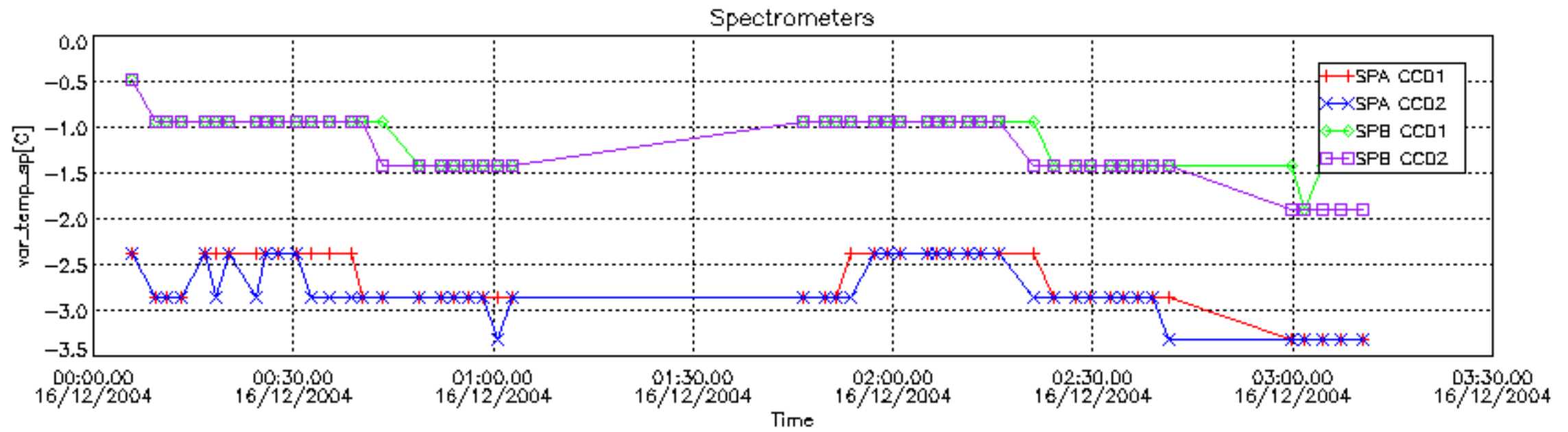
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

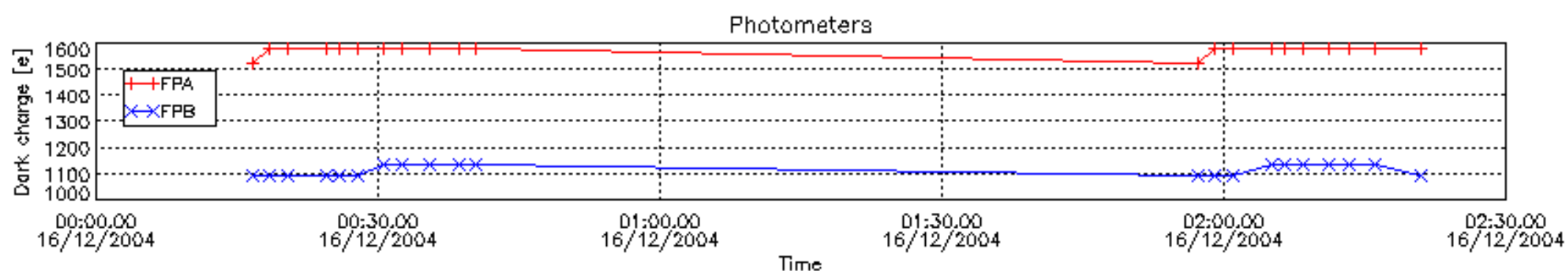
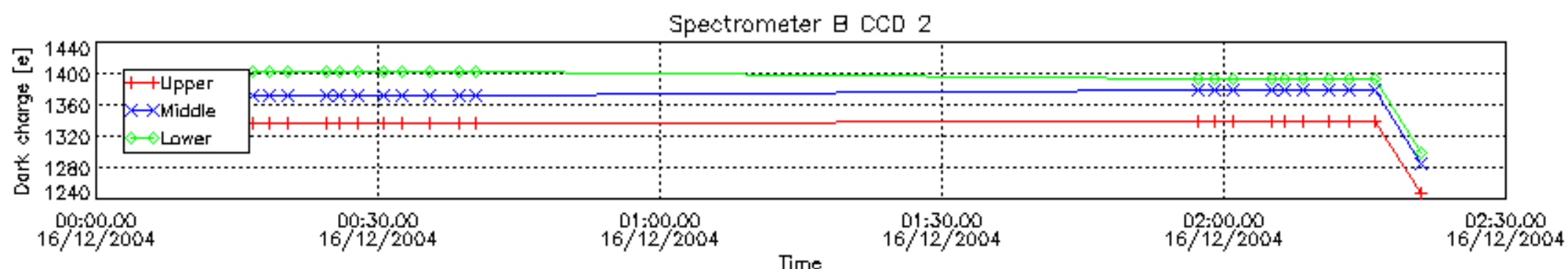
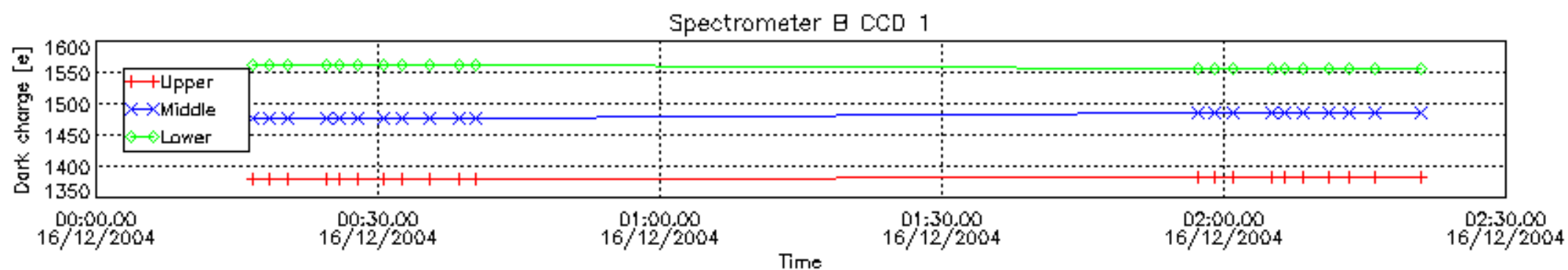
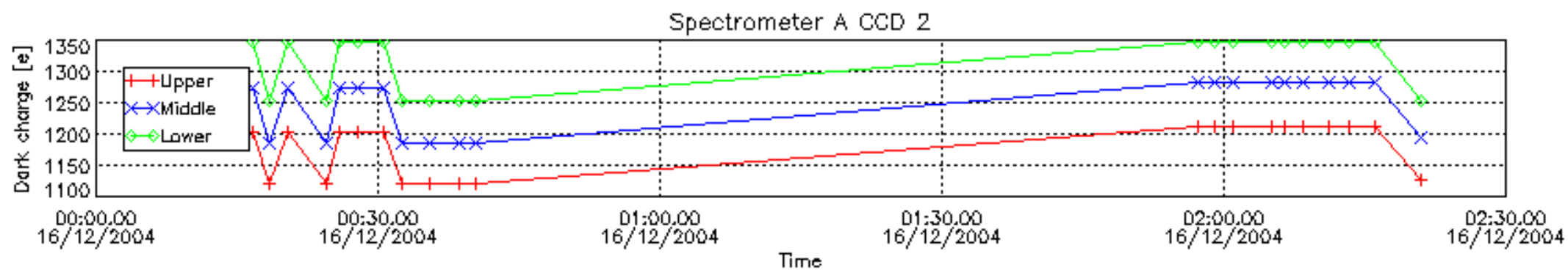
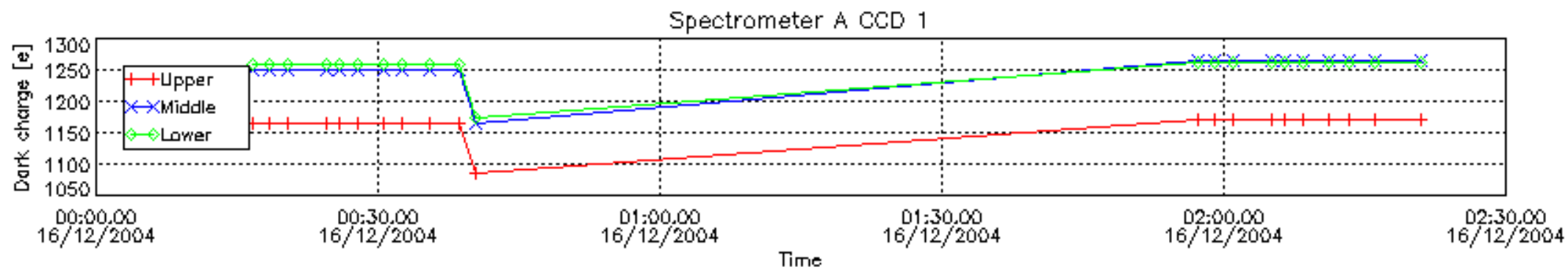
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.7	1447.2	1461.7	1447.7
St. deviation:	5.3536	7.2339	8.2053	9.9436
Maximum:	1505.0	1502.0	1518.0	1506.0
Minimum:	1424.0	1394.0	1410.0	1393.0
Number of data:	26000.	26000.	22750.	22750.

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

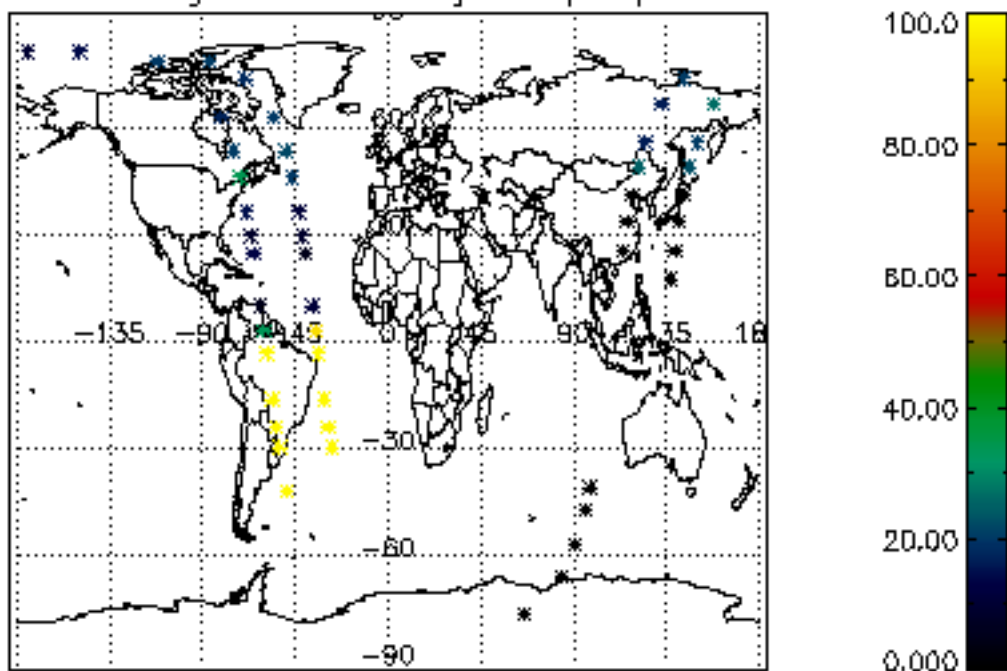
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	16-DEC-2004 00:05:45
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041213_094740_20041211_000000_20100101_000000	1	16-DEC-2004 00:05:45
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	16-DEC-2004 00:05:45
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-DEC-2004 00:05:45
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	16-DEC-2004 00:05:45
ECMWF_FILE	AUX_ECF_AXNECM20041215_074540_20041215_210000_20041216_090000	1	16-DEC-2004 00:05:45
OPTIONAL_ECMWF_FILE	NOT USED	1	16-DEC-2004 00:05:45
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041216_001434_20041215_191547_20041225_204200	1	16-DEC-2004 00:05:45

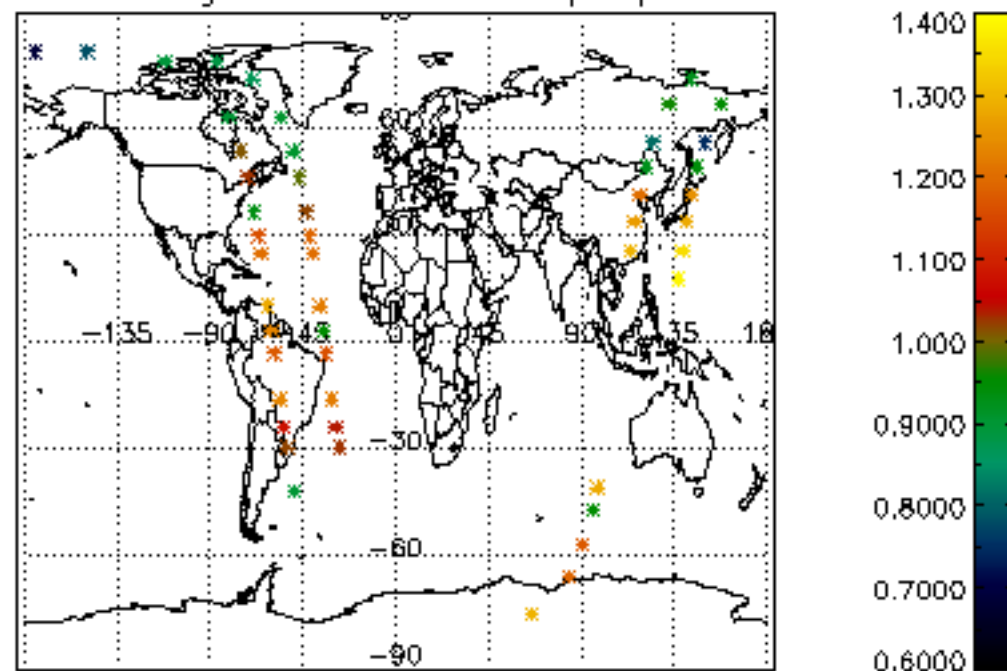




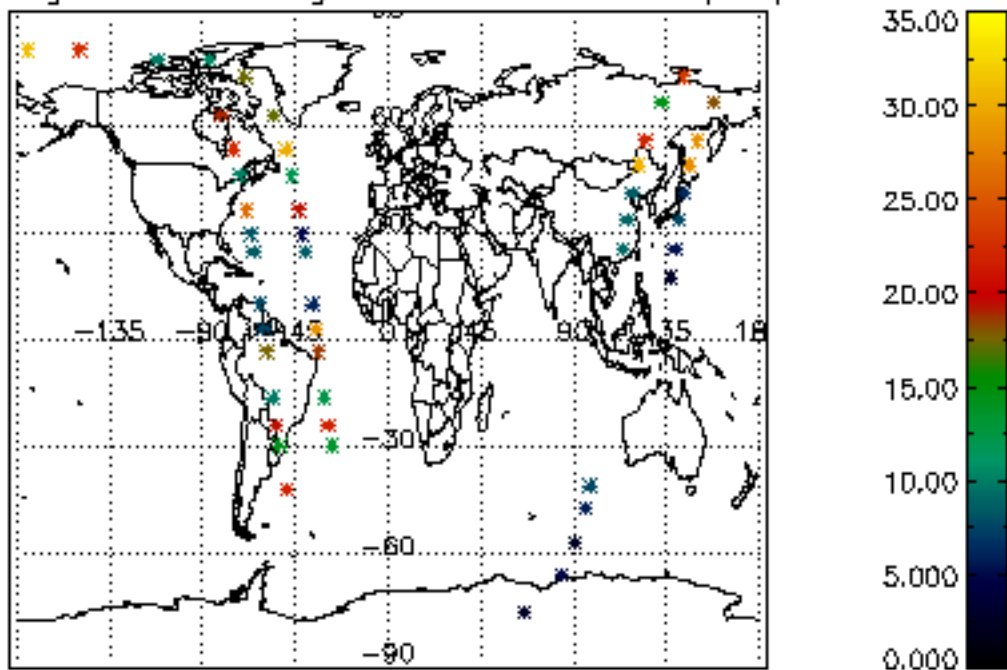
Percentage of cosmic ray hits per profile



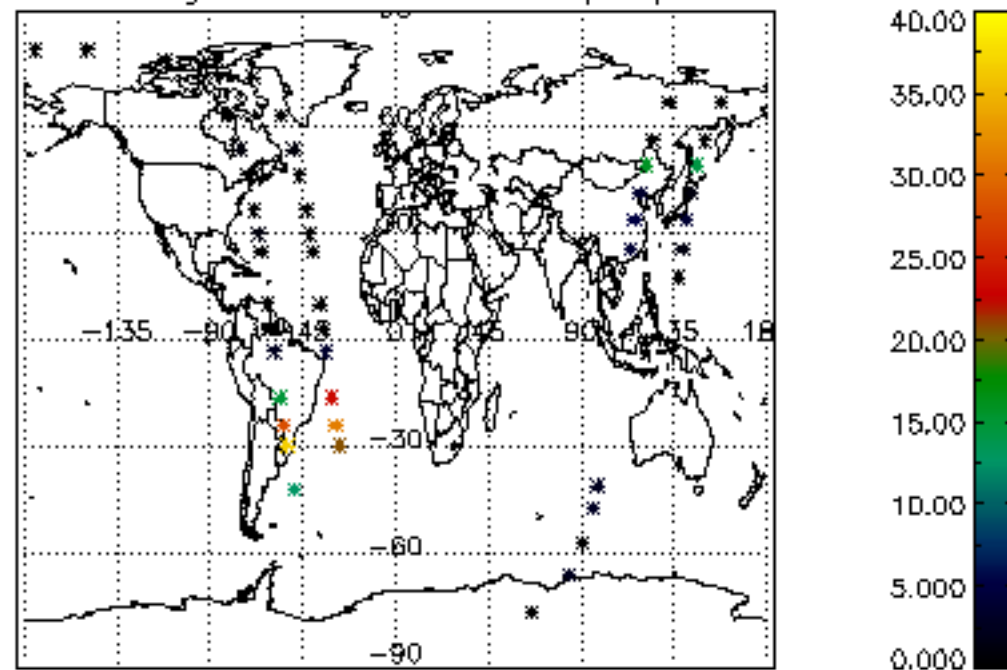
Percentage of datation errors per profile



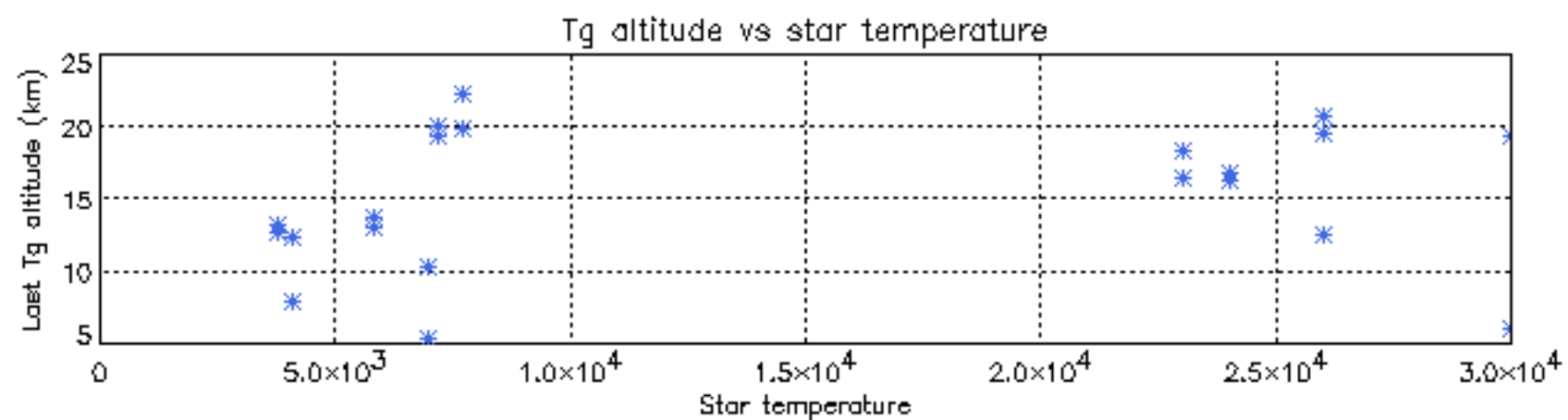
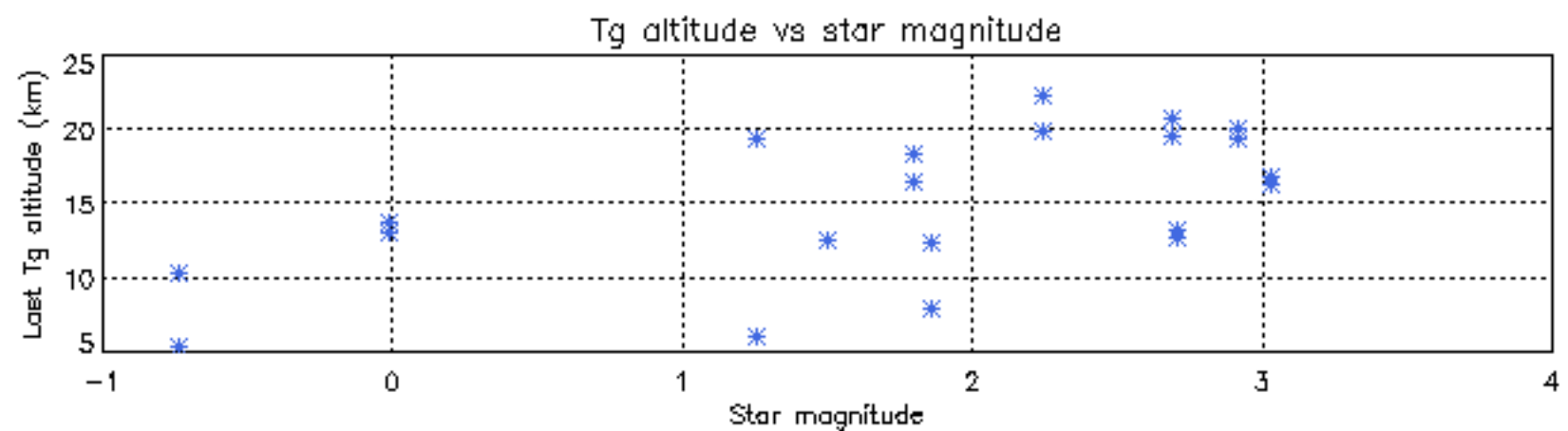
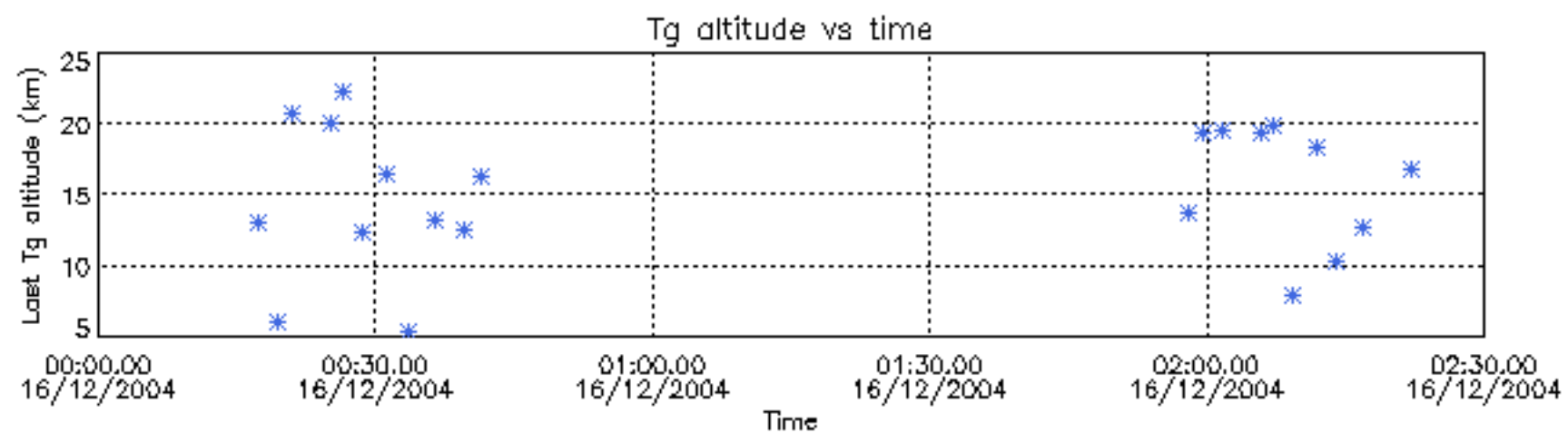
Percentage of star falling outside central band per profile



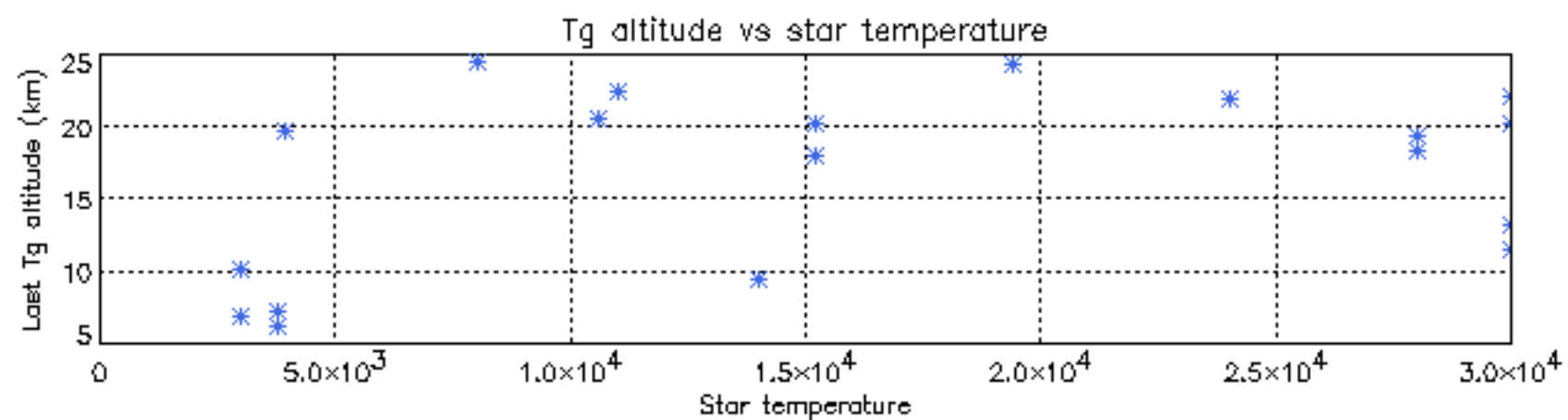
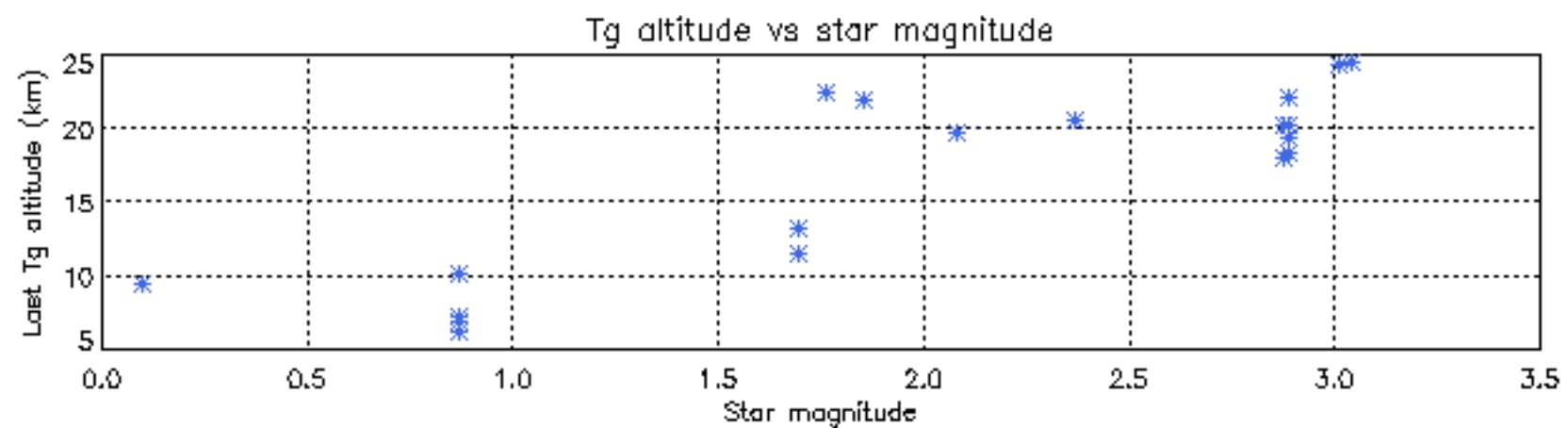
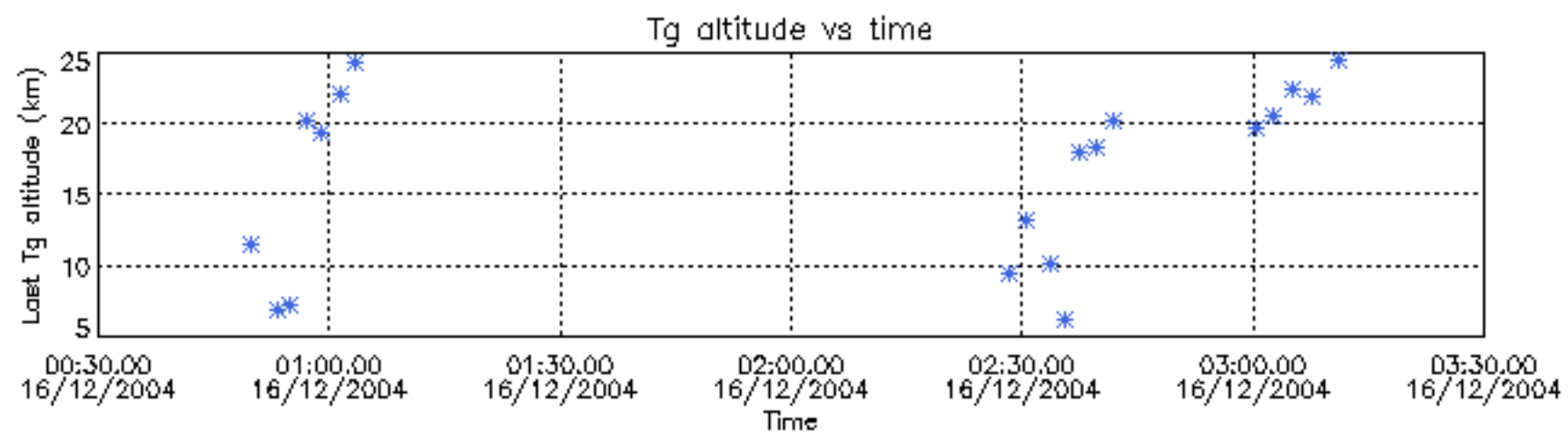
Percentage of saturation errors per profile



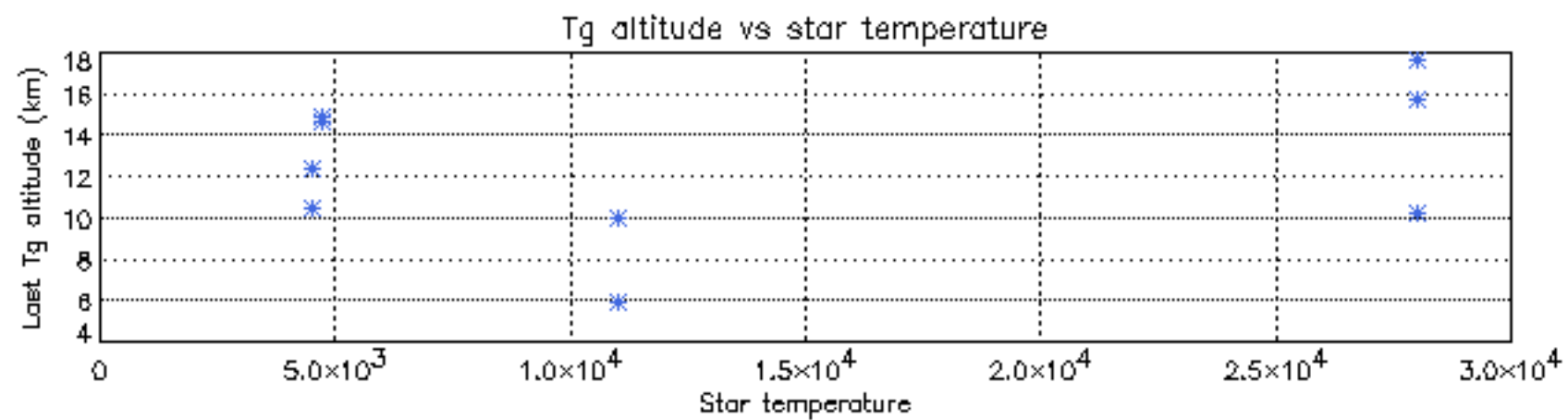
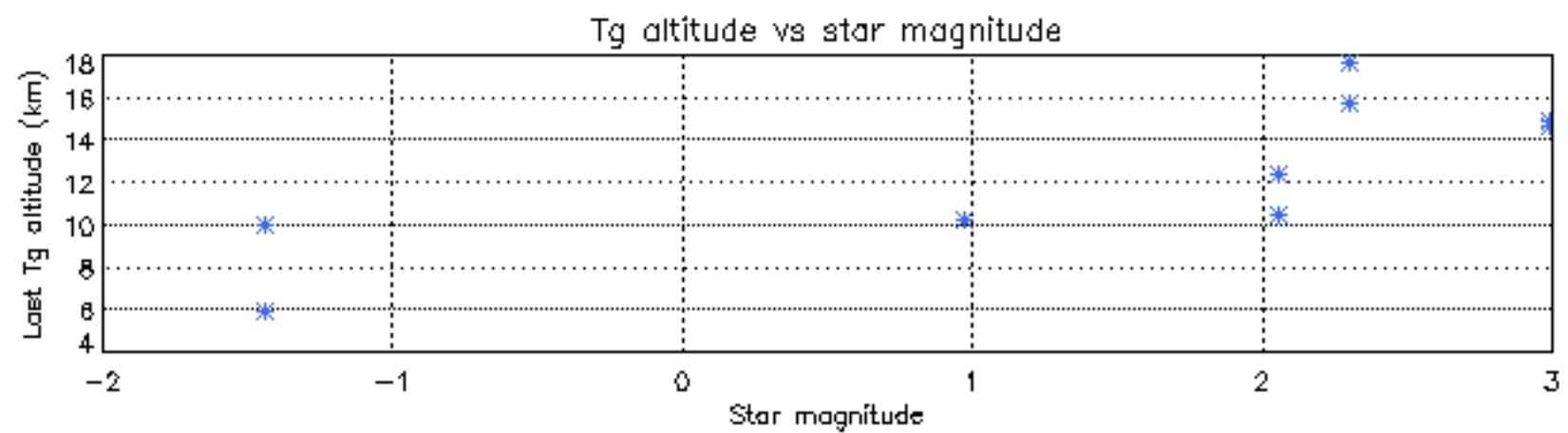
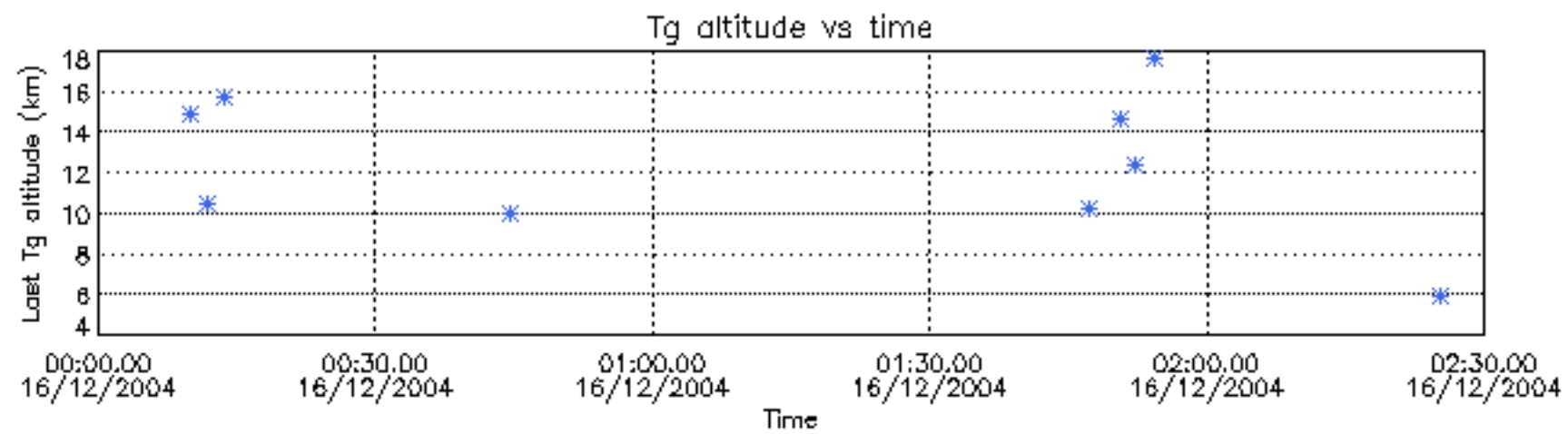
Tangent altitude at which the star is lost



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

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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
 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
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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
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 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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 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
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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
10; -914.4; 01-DEC-2004 04:35:27; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;14401
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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
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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
17; 363.8; 01-DEC-2004 04:56:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14402
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19; 609.3; 01-DEC-2004 05:00:51; Dark ; 62.5; 34; Gam2Vel ; 1.79; 23000;occ; 125; 0;14402
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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
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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
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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
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13; -412.2; 01-DEC-2004 06:24:25; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;14402
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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
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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
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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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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
8;-1168.5; 01-DEC-2004 07:52:25; Bright; 75.5; 96; 68Del Leo ; 2.56; 9300;occ; 151; 0;14403
9; -913.7; 01-DEC-2004 07:56:40; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;14403
10; -626.7; 01-DEC-2004 08:01:27; Dark ; 49.0; 163; 7Del Crv ; 2.94; 11000;occ; 98; 0;14403
11; -529.1; 01-DEC-2004 08:03:04; Dark ; 47.5; 106; 9Bet Crv ; 2.65; 5600;occ; 95; 0;14403
12; -411.8; 01-DEC-2004 08:05:02; Dark ; 40.5; 123; Iot Cen ; 2.75; 10200;occ; 81; 0;14403
13; -171.5; 01-DEC-2004 08:09:02; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;14403
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19; 1925.6; 01-DEC-2004 22:08:46; Dark ; 65.0; 30; 46Eps Ori ; 1.69; 30000;occ; 130; 0;14412
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21; 2225.1; 01-DEC-2004 22:13:46; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;14412
22; 2323.7; 01-DEC-2004 22:15:25; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;14412
23; 2464.7; 01-DEC-2004 22:17:46; Bright; 41.0; 150; 44Zet Per ; 2.89; 28000;occ; 82; 0;14412
24; 2601.9; 01-DEC-2004 22:20:03; Bright; 39.5; 79; 26Bet Per ; 2.31; 13100;occ; 79; 0;14412
25; 2732.2; 01-DEC-2004 22:22:13; Bright; 39.0; 175; 39Del Per ; 3.01; 19400;occ; 78; 0;14412
26; 2815.6; 01-DEC-2004 22:23:36; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;14412
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29; 3698.1; 01-DEC-2004 22:38:19; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;14412
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31; 3909.5; 01-DEC-2004 22:41:50; Bright; 49.5; 82; 48Bet UMA ; 2.37; 10600;occ; 99; 0;14412
32; 4011.0; 01-DEC-2004 22:43:32; Bright; 41.0; 32; 77Eps UMA ; 1.76; 11000;occ; 82; 0;14412
33; 4137.5; 01-DEC-2004 22:45:38; Bright; 40.0; 39; 85Eta UMA ; 1.85; 24000;occ; 80; 0;14412
34; 4313.6; 01-DEC-2004 22:48:34; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;14412
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36; 4646.9; 01-DEC-2004 22:54:08; Bright; 37.0; 3; 16Alp Boo ; -0.05; 4250;occ; 74; 0;14412
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4;	-280.6;	01-DEC-2004	23:12:36;	Dark	;	40.0;	95;	Zet Cen	;	2.55;	26000;occ;	80;	0;	14412
5;	-170.2;	01-DEC-2004	23:14:26;	Dark	;	40.0;	77;	Eps Cen	;	2.30;	28000;occ;	80;	0;	14412
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8;	273.8;	01-DEC-2004	23:21:50;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	14413
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11;	619.3;	01-DEC-2004	23:27:36;	Dark	;	51.5;	34;	Gam2Vel	;	1.79;	23000;occ;	103;	0;	14413
12;	814.2;	01-DEC-2004	23:30:51;	Dark	;	58.0;	2;	Alp Car	;	-0.74;	7000;occ;	116;	0;	14413
13;	929.6;	01-DEC-2004	23:32:46;	Dark	;	63.5;	117;	Pi Pup	;	2.71;	3800;occ;	127;	0;	14413
14;	1155.2;	01-DEC-2004	23:36:32;	Dark	;	73.0;	23;	21Eps CMA	;	1.50;	26000;occ;	146;	0;	14413
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16;	1531.1;	01-DEC-2004	23:42:48;	Dark	;	92.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	184;	0;	14413
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19;	2085.3;	01-DEC-2004	23:52:02;	Dark	;	66.5;	27;	24Gam Ori	;	1.64;	26000;occ;	133;	0;	14413
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21;	2323.4;	01-DEC-2004	23:56:00;	Bright;	;	42.0;	146;	25Eta Tau	;	2.87;	15200;occ;	84;	0;	14413
22;	2464.5;	01-DEC-2004	23:58:21;	Bright;	;	40.5;	150;	44Zet Per	;	2.89;	28000;occ;	81;	0;	14413
23;	2601.9;	02-DEC-2004	00:00:39;	Bright;	;	38.0;	79;	26Bet Per	;	2.31;	13100;occ;	76;	0;	14413
24;	2731.8;	02-DEC-2004	00:02:48;	Bright;	;	38.5;	175;	39Del Per	;	3.01;	19400;occ;	77;	0;	14413
25;	2815.2;	02-DEC-2004	00:04:12;	Bright;	;	37.0;	160;	23Gam Per	;	2.93;	4700;occ;	74;	0;	14413
26;	2959.4;	02-DEC-2004	00:06:36;	Bright;	;	38.0;	110;	37Del Cas	;	2.68;	8900;occ;	76;	0;	14413
27;	3419.1;	02-DEC-2004	00:14:16;	Bright;	;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	14413
28;	3700.6;	02-DEC-2004	00:18:57;	Bright;	;	39.5;	60;	7Bet UMi	;	2.08;	3950;occ;	79;	0;	14413
29;	3813.5;	02-DEC-2004	00:20:50;	Bright;	;	45.5;	36;	50Alp UMA	;	1.80;	6300;occ;	91;	0;	14413
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13;	-2337.9;	01-DEC-2004	15:55:55;	Bright;	;	41.0;	60;	7Bet UMi	;	2.08;	3950;occ;	82;	0;	14408
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17;	-1898.6;	01-DEC-2004	16:03:14;	Bright;	;	54.0;	39;	85Eta UMA	;	1.85;	24000;occ;	108;	0;	14408
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27;	-37.9;	22-DEC-2004	17:14:25;	Dark	;	45.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	91;	0;	14709
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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
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29; -476.6; 31-DEC-2004 20:45:32; Dark ; 76.5; 15; 67Alp Vir ; 0.98; 28000;occ; 153; 0;14840
30; -284.1; 31-DEC-2004 20:48:45; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;14840
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37; 546.0; 31-DEC-2004 21:02:35; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;14841
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