

GOMOS Daily Report 11-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	14DEC2004 10:50:30

Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-3D (11DEC2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (12DEC2004 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)

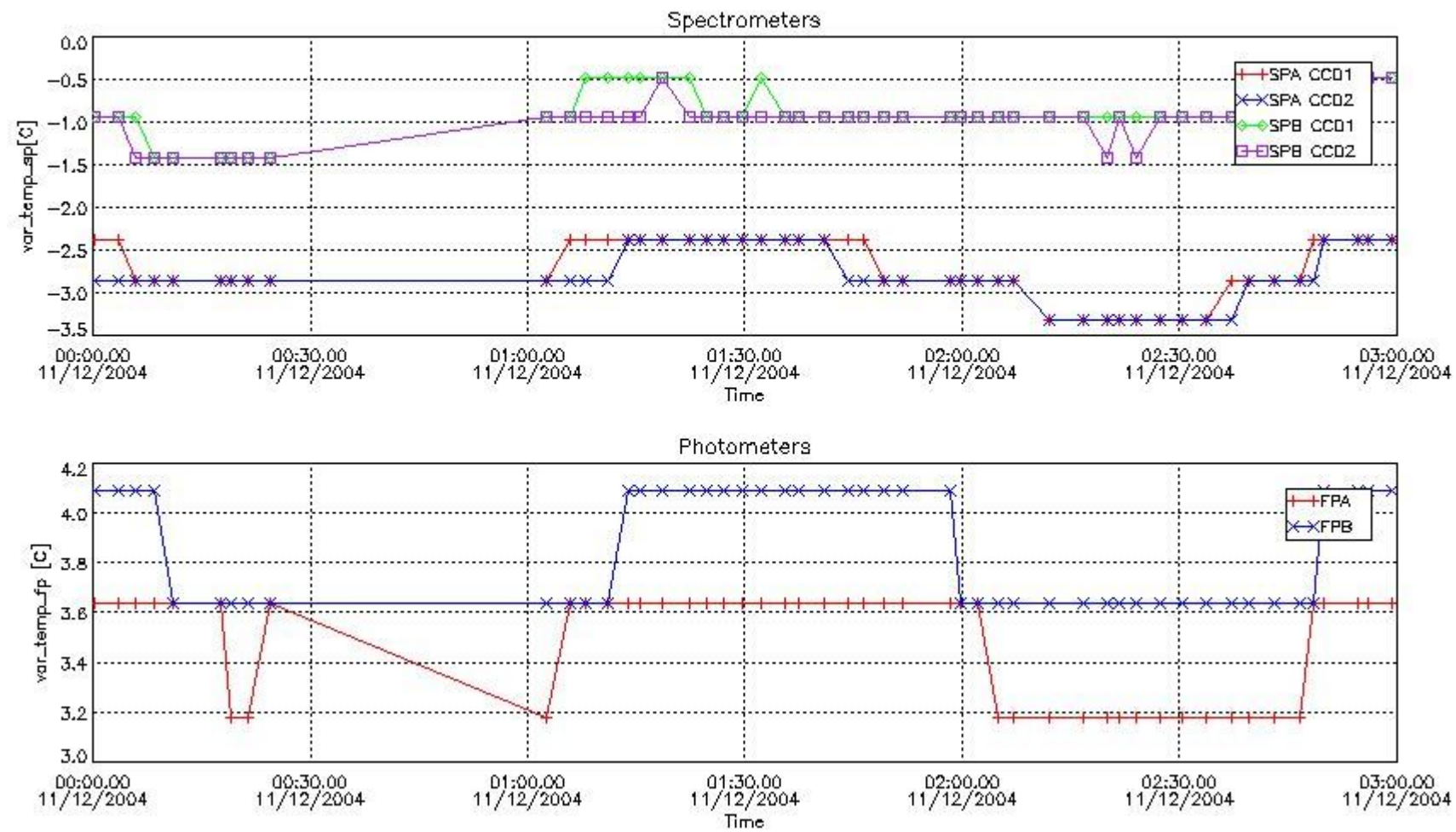
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20041211_000015_000000782032_00460_14542_0015.N1	11-DEC-2004 00:00:15	Twilight	77.500	1	9Alp CMa	-1.4400	11000.	155	14542	No
2	GOM_TRA_1PNPDE20041211_000333_000000552032_00460_14542_0016.N1	11-DEC-2004 00:03:33	Bright	55.000	7	19Bet Ori	0.10000	14000.	110	14542	No
3	GOM_TRA_1PNPDE20041211_000550_000000552032_00460_14542_0017.N1	11-DEC-2004 00:05:50	Bright	54.500	33	50Zet Ori	1.7660	30000.	109	14542	No
4	GOM_TRA_1PNPDE20041211_000829_000000552032_00460_14542_0018.N1	11-DEC-2004 00:08:29	Bright	54.500	27	24Gam Ori	1.6360	26000.	109	14542	No
5	GOM_TRA_1PNPDE20041211_001104_000000532032_00460_14542_0019.N1	11-DEC-2004 00:11:04	Bright	53.000	13	87Alp Tau	0.86700	3800.0	106	14542	No
6	GOM_TRA_1PNPDE20041211_001739_000000372032_00460_14542_0020.N1	11-DEC-2004 00:17:39	Bright	36.500	149	45Eps Per	2.8880	30000.	73	14542	No
7	GOM_TRA_1PNPDE20041211_001909_000000382032_00460_14542_0021.N1	11-DEC-2004 00:19:09	Bright	37.500	73	57Gam1And	2.2600	13100.	75	14542	No
8	GOM_TRA_1PNPDE20041211_002127_000000372032_00460_14542_0022.N1	11-DEC-2004 00:21:27	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	14542	No
9	GOM_TRA_1PNPDE20041211_002424_000000372032_00460_14542_0023.N1	11-DEC-2004 00:24:24	Bright	37.000	110	37Del Cas	2.6780	8900.0	74	14542	No
10	GOM_TRA_1PNPDE20041211_010228_000000542032_00460_14542_0000.N1	11-DEC-2004 01:02:28	Twilight	54.000	15	67Alp Vir	0.97600	28000.	108	14542	No
11	GOM_TRA_1PNPDE20041211_010555_000000512032_00460_14542_0001.N1	11-DEC-2004 01:05:55	Twilight	51.000	169	46Gam Hya	2.9910	4700.0	102	14542	No
12	GOM_TRA_1PNPDE20041211_010756_000000462032_00460_14542_0002.N1	11-DEC-2004 01:07:56	Twilight	46.000	54	5The Cen	2.0550	4500.0	92	14542	No
13	GOM_TRA_1PNPDE20041211_011100_000000412032_00460_14542_0003.N1	11-DEC-2004 01:11:00	Twilight	40.500	95	Zet Cen	2.5450	26000.	81	14542	No
14	GOM_TRA_1PNPDE20041211_011359_000000452032_00460_14542_0004.N1	11-DEC-2004 01:13:59	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	14542	No
15	GOM_TRA_1PNPDE20041211_011527_000000432032_00461_14543_0005.N1	11-DEC-2004 01:15:27	Dark	42.500	20	Bet Cru	1.2530	30000.	85	14543	No
16	GOM_TRA_1PNPDE20041211_011833_000000482032_00461_14543_0006.N1	11-DEC-2004 01:18:33	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	14543	No
17	GOM_TRA_1PNPDE20041211_012215_000000422032_00461_14543_0007.N1	11-DEC-2004 01:22:15	Dark	42.000	29	Bet Car	1.6720	10200.	84	14543	No
18	GOM_TRA_1PNPDE20041211_012437_000000472032_00461_14543_0008.N1	11-DEC-2004 01:24:37	Dark	47.000	41	Eps Car	1.8600	4100.0	94	14543	No
19	GOM_TRA_1PNPDE20041211_012708_000000552032_00461_14543_0009.N1	11-DEC-2004 01:27:08	Dark	54.500	34	Gam2Vel	1.7930	23000.	109	14543	No
20	GOM_TRA_1PNPDE20041211_012938_000000502032_00461_14543_0010.N1	11-DEC-2004 01:29:38	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	14543	No
21	GOM_TRA_1PNPDE20041211_013212_000000602032_00461_14543_0011.N1	11-DEC-2004 01:32:12	Dark	59.500	117	Pi Pup	2.7060	3800.0	119	14543	No
22	GOM_TRA_1PNPDE20041211_013537_000000642032_00461_14543_0012.N1	11-DEC-2004 01:35:37	Dark	64.000	23	21Eps CMa	1.5020	26000.	128	14543	No
23	GOM_TRA_1PNPDE20041211_013731_000000622032_00461_14543_0013.N1	11-DEC-2004 01:37:31	Dark	62.000	179	24Omi2CMa	3.0320	24000.	124	14543	No
24	GOM_TRA_1PNPDE20041211_014051_000000752032_00461_14543_0014.N1	11-DEC-2004 01:40:51	Twilight	75.000	1	9Alp CMa	-1.4400	11000.	150	14543	No
25	GOM_TRA_1PNPDE20041211_014409_000000592032_00461_14543_0015.N1	11-DEC-2004 01:44:09	Bright	59.000	7	19Bet Ori	0.10000	14000.	118	14543	No
26	GOM_TRA_1PNPDE20041211_014625_000000552032_00461_14543_0016.N1	11-DEC-2004 01:46:25	Bright	54.500	33	50Zet Ori	1.7660	30000.	109	14543	No
27	GOM_TRA_1PNPDE20041211_014904_000000522032_00461_14543_0017.N1	11-DEC-2004 01:49:04	Bright	52.000	27	24Gam Ori	1.6360	26000.	104	14543	No
28	GOM_TRA_1PNPDE20041211_015140_000000562032_00461_14543_0018.N1	11-DEC-2004 01:51:40	Bright	56.000	13	87Alp Tau	0.86700	3800.0	112	14543	No
29	GOM_TRA_1PNPDE20041211_015815_000000382032_00461_14543_0019.N1	11-DEC-2004 01:58:15	Bright	37.500	149	45Eps Per	2.8880	30000.	75	14543	No
30	GOM_TRA_1PNPDE20041211_015946_000000402032_00461_14543_0020.N1	11-DEC-2004 01:59:46	Bright	40.000	73	57Gam1And	2.2600	13100.	80	14543	No
31	GOM_TRA_1PNPDE20041211_020202_000000372032_00461_14543_0021.N1	11-DEC-2004 02:02:02	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	14543	No
32	GOM_TRA_1PNPDE20041211_020500_000000382032_00461_14543_0022.N1	11-DEC-2004 02:05:00	Bright	37.500	110	37Del Cas	2.6780	8900.0	75	14543	No
33	GOM_TRA_1PNPDE20041211_020657_000000922032_00461_14543_0023.N1	11-DEC-2004 02:06:57	Bright	91.500	24	66Alp Gem	1.5800	10200.	183	14543	No
34	GOM_TRA_1PNPDE20041211_021203_000000402032_00461_14543_0024.N1	11-DEC-2004 02:12:03	Bright	40.000	49	1Alp UMi	1.9900	6300.0	80	14543	No
35	GOM_TRA_1PNPDE20041211_021648_000000402032_00461_14543_0000.N1	11-DEC-2004 02:16:48	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	14543	No
36	GOM_TRA_1PNPDE20041211_021953_000000382032_00461_14543_0001.N1	11-DEC-2004 02:19:53	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	14543	No
37	GOM_TRA_1PNPDE20041211_022140_000000432032_00461_14543_0002.N1	11-DEC-2004 02:21:40	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	14543	No
38	GOM_TRA_1PNPDE20041211_022404_000000402032_00461_14543_0003.N1	11-DEC-2004 02:24:04	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	14543	No
39	GOM_TRA_1PNPDE20041211_022715_000000382032_00461_14543_0004.N1	11-DEC-2004 02:27:15	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	14543	No
40	GOM_TRA_1PNPDE20041211_023022_000000382032_00461_14543_0005.N1	11-DEC-2004 02:30:22	Bright	38.000	83		2.3780	11000.	76	14543	No
41	GOM_TRA_1PNPDE20041211_023334_000000572032_00461_14543_0006.N1	11-DEC-2004 02:33:34	Bright	57.000	111	8Eta Boo	2.6800	6000.0	114	14543	No
42	GOM_TRA_1PNPDE20041211_023712_000000482032_00461_14543_0007.N1	11-DEC-2004 02:37:12	Bright	47.500	138	47Eps Vir	2.8280	4700.0	95	14543	No
43	GOM_TRA_1PNPDE20041211_023927_000000972032_00461_14543_0008.N1	11-DEC-2004 02:39:27	Twilight	96.500	62	94Bet Leo	2.1360	9700.0	193	14543	No
44	GOM_TRA_1PNPDE20041211_024303_000000522032_00461_14543_0009.N1	11-DEC-2004 02:43:03	Twilight	51.500	15	67Alp Vir	0.97600	28000.	103	14543	No
45	GOM_TRA_1PNPDE20041211_024632_000000492032_00461_14543_0010.N1	11-DEC-2004 02:46:32	Twilight	48.500	169	46Gam Hya	2.9910	4700.0	97	14543	No
46	GOM_TRA_1PNPDE20041211_024831_000000472032_00461_14543_0011.N1	11-DEC-2004 02:48:31	Twilight	46.500	54	5The Cen	2.0550	4500.0	93	14543	No

47	GOM_TRA_1PNPDE20041211_024954_000000432032_00461_14543_0012.N1	11-DEC-2004 02:49:54	Twilight	43.000	123	Iot Cen	2.7500	10200.	86	14543	No
48	GOM_TRA_1PNPDE20041211_025435_000000432032_00461_14543_0013.N1	11-DEC-2004 02:54:35	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	14543	No
49	GOM_TRA_1PNPDE20041211_025603_000000442032_00462_14544_0014.N1	11-DEC-2004 02:56:03	Dark	43.500	20	Bet Cru	1.2530	30000.	87	14544	No
50	GOM_TRA_1PNPDE20041211_025911_000000472032_00462_14544_0015.N1	11-DEC-2004 02:59:11	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	14544	No

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



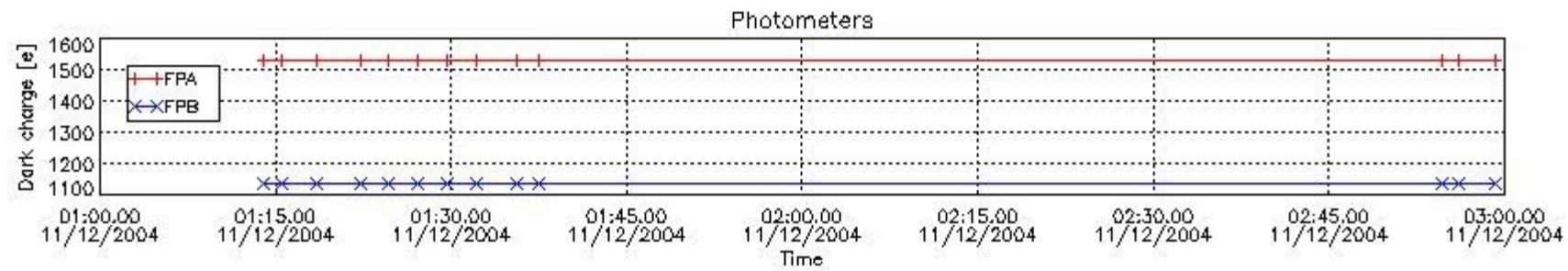
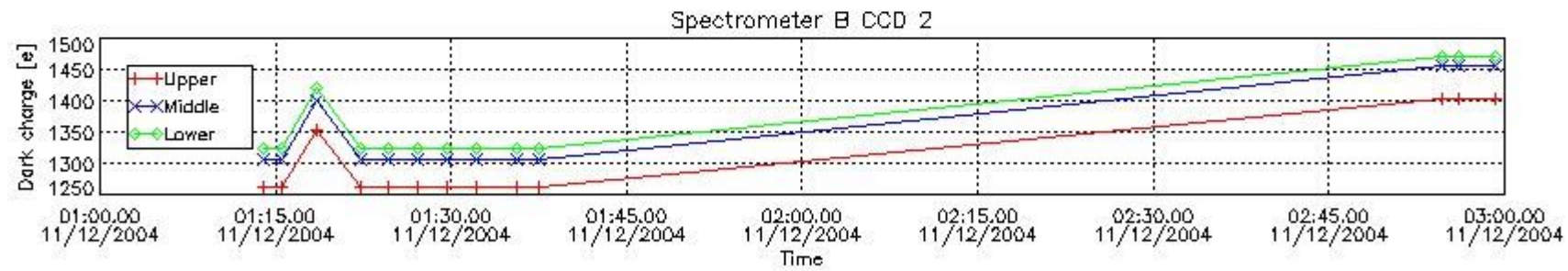
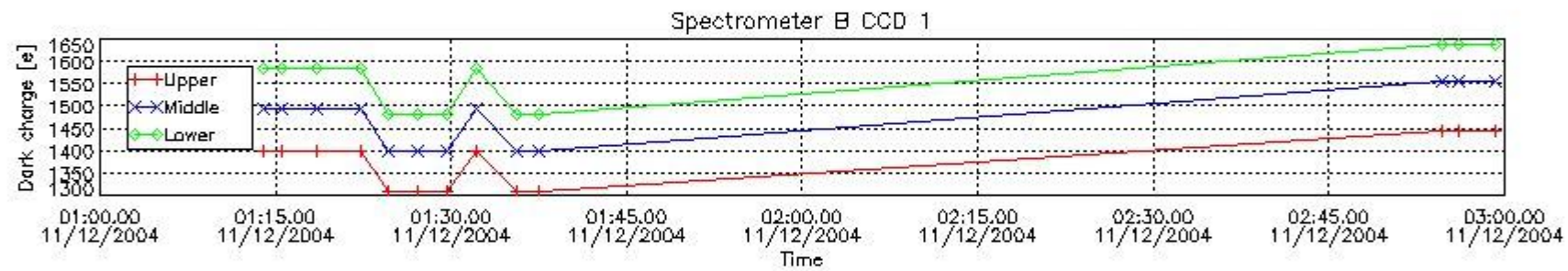
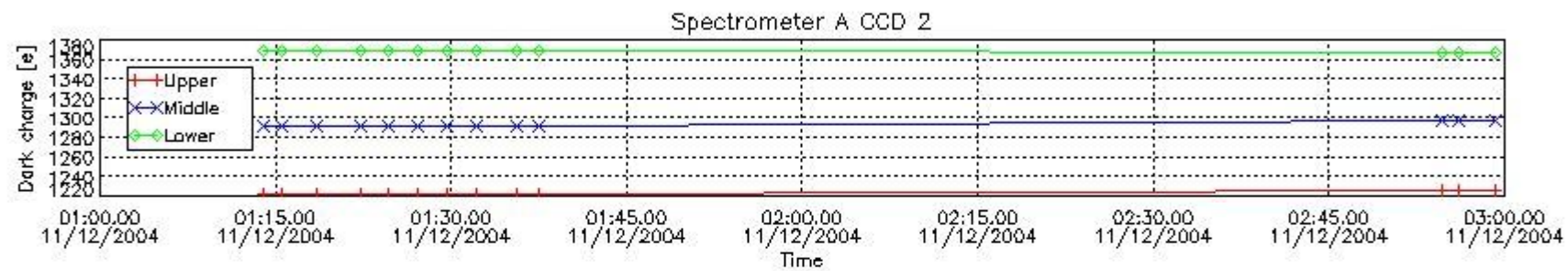
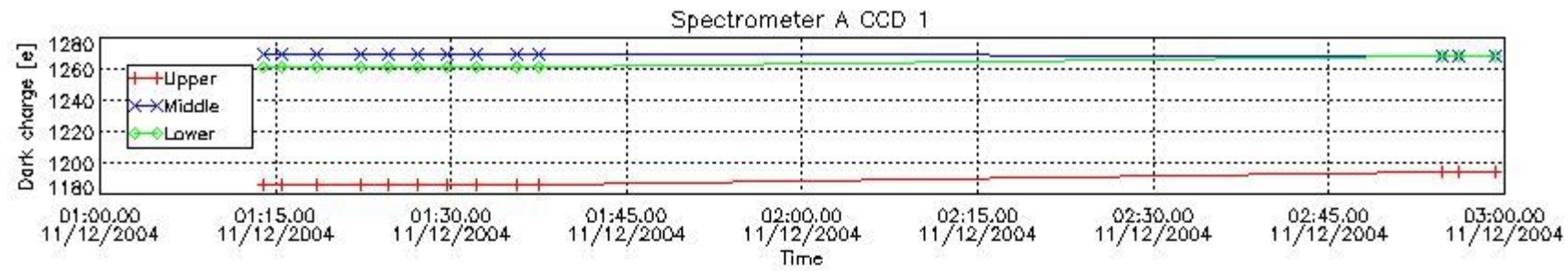
4. Overview of dark signal processing per product

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



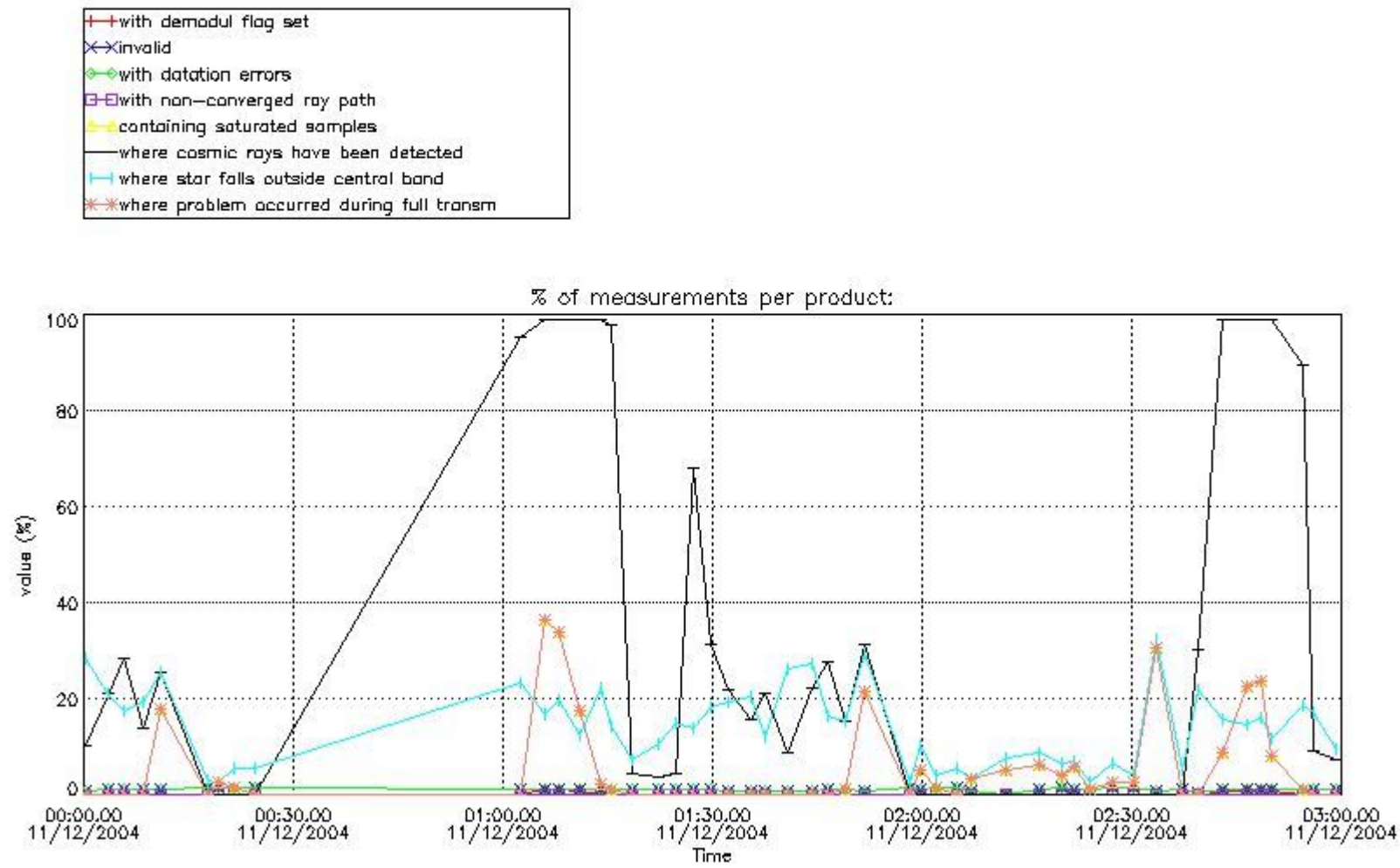
5. Demodulation flag and quality information monitoring

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.

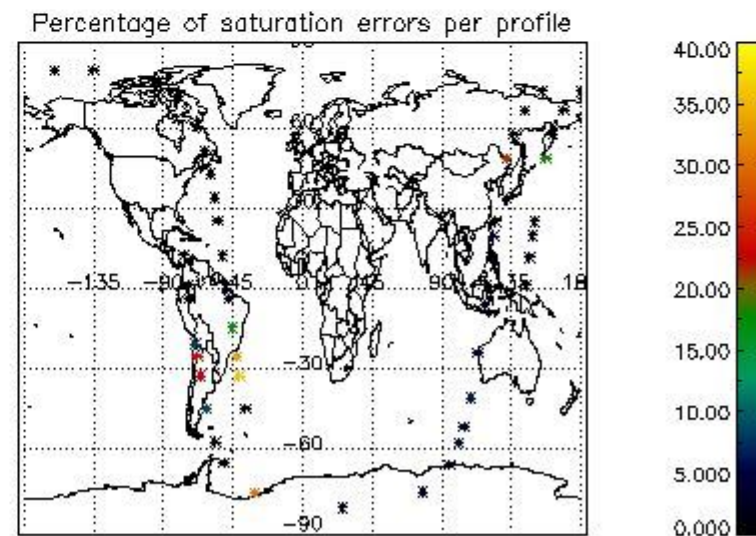
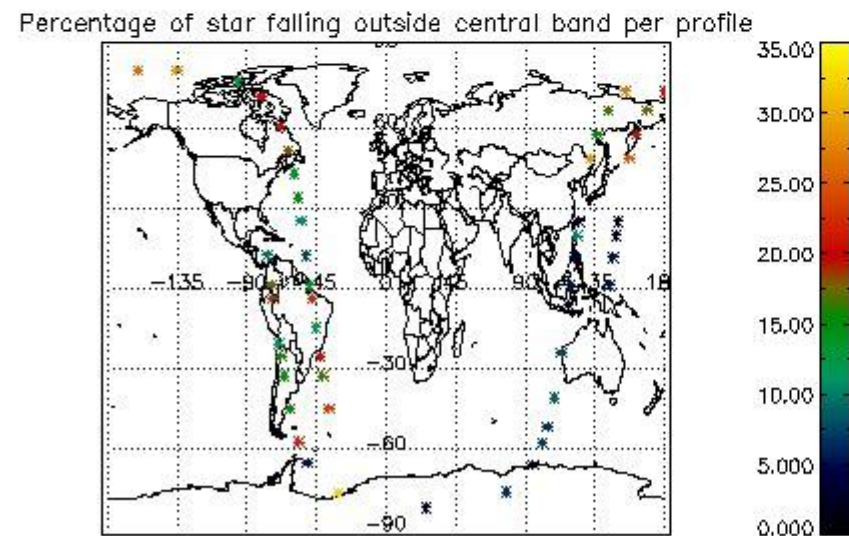
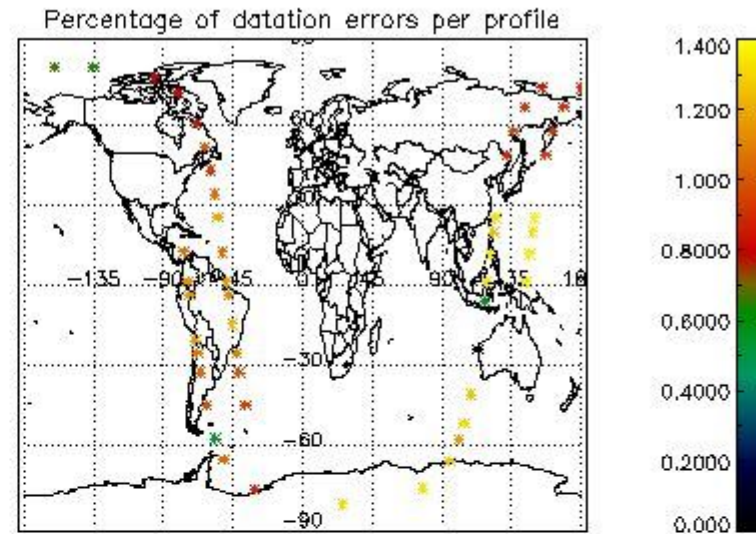
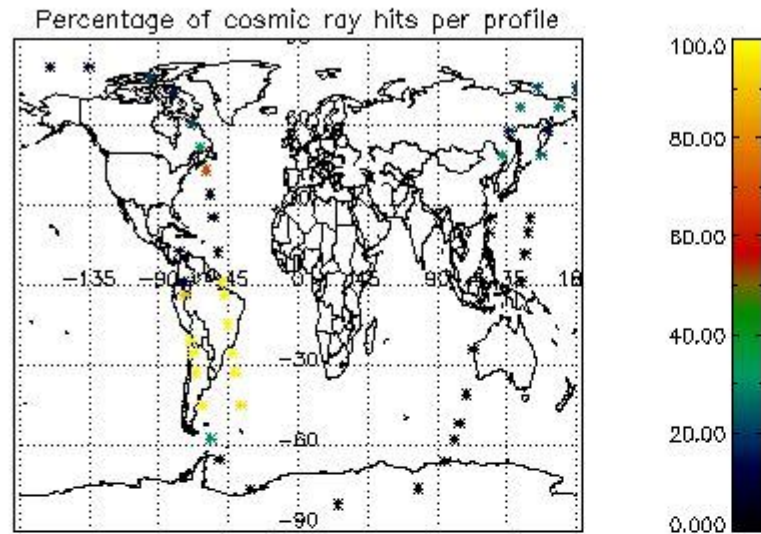
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.0000 %
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)



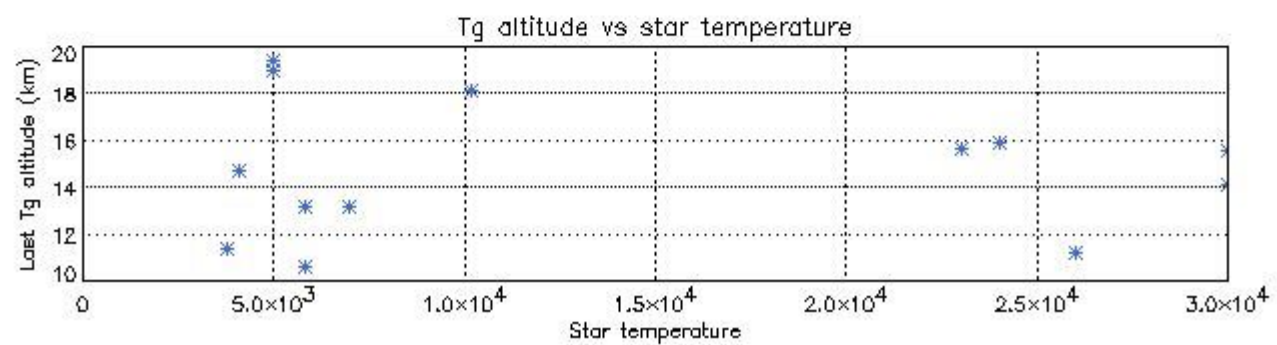
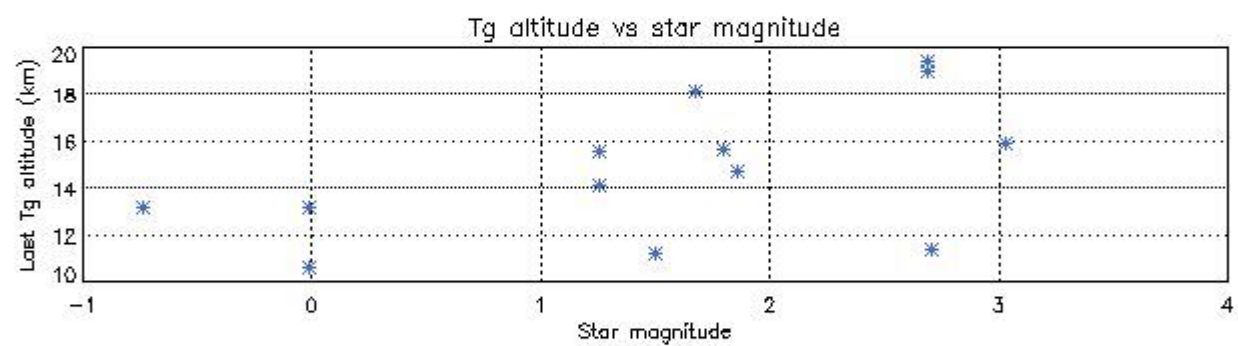
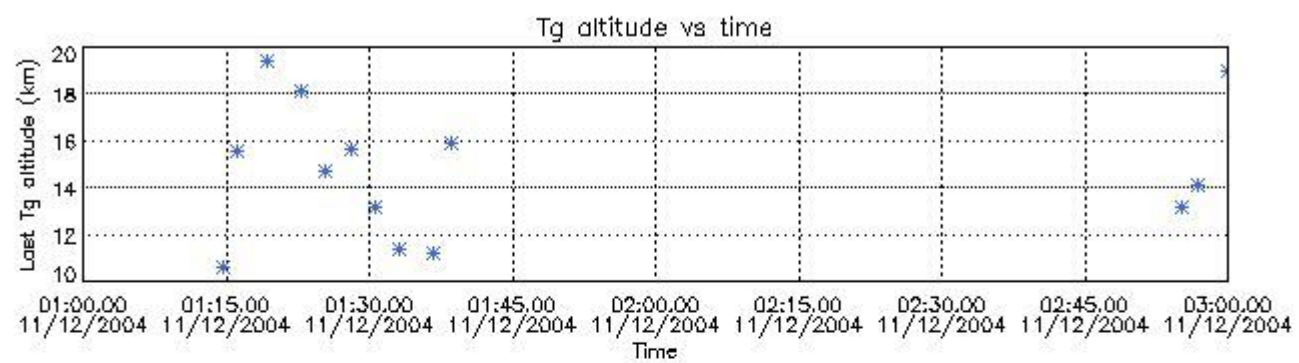
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.761	17.578	12.439
St. deviation:	2.8945	6.0908	3.1460
Maximum:	19.438	23.868	17.109
Minimum:	10.609	5.8341	7.4538
Number of data:	13.000	26.000	11.000

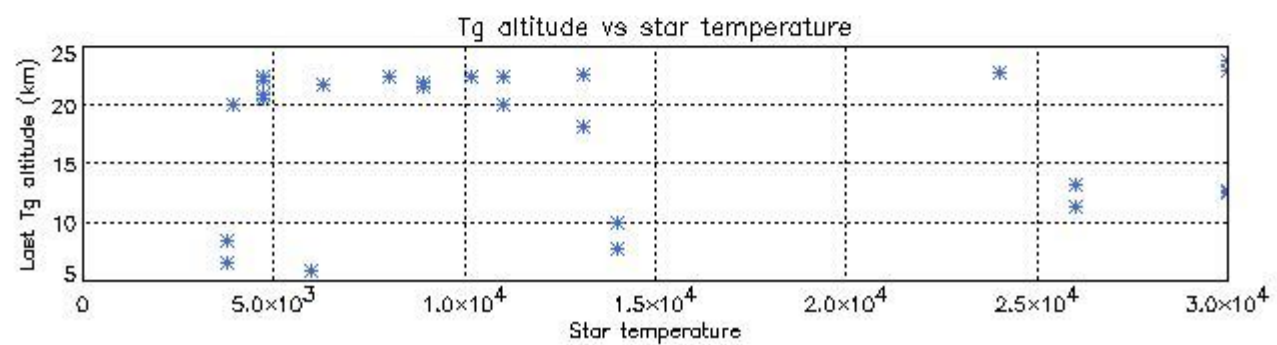
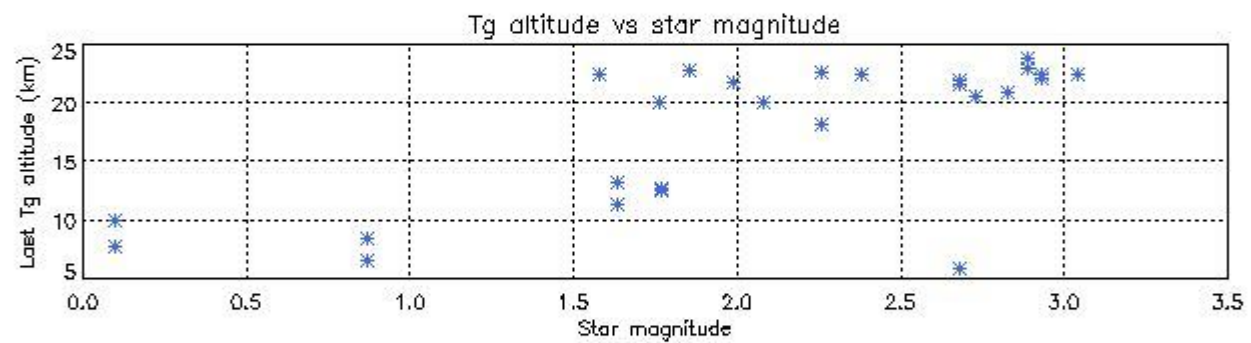
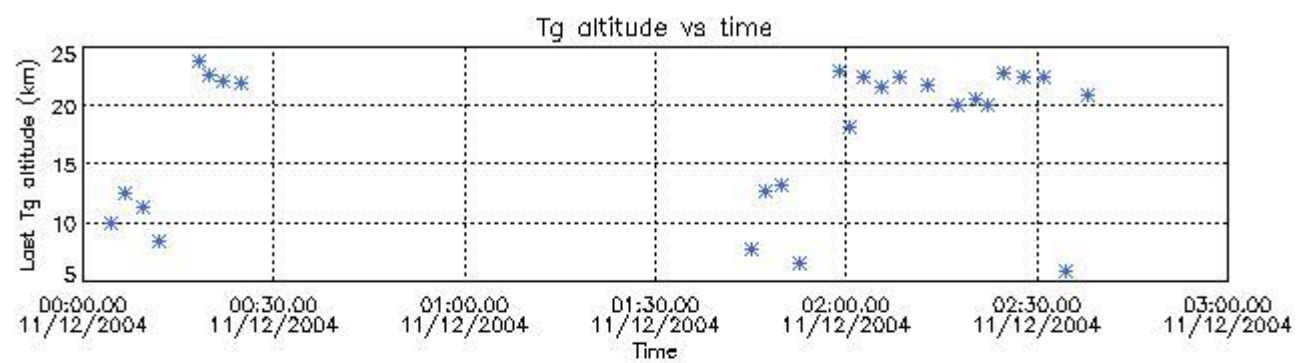
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



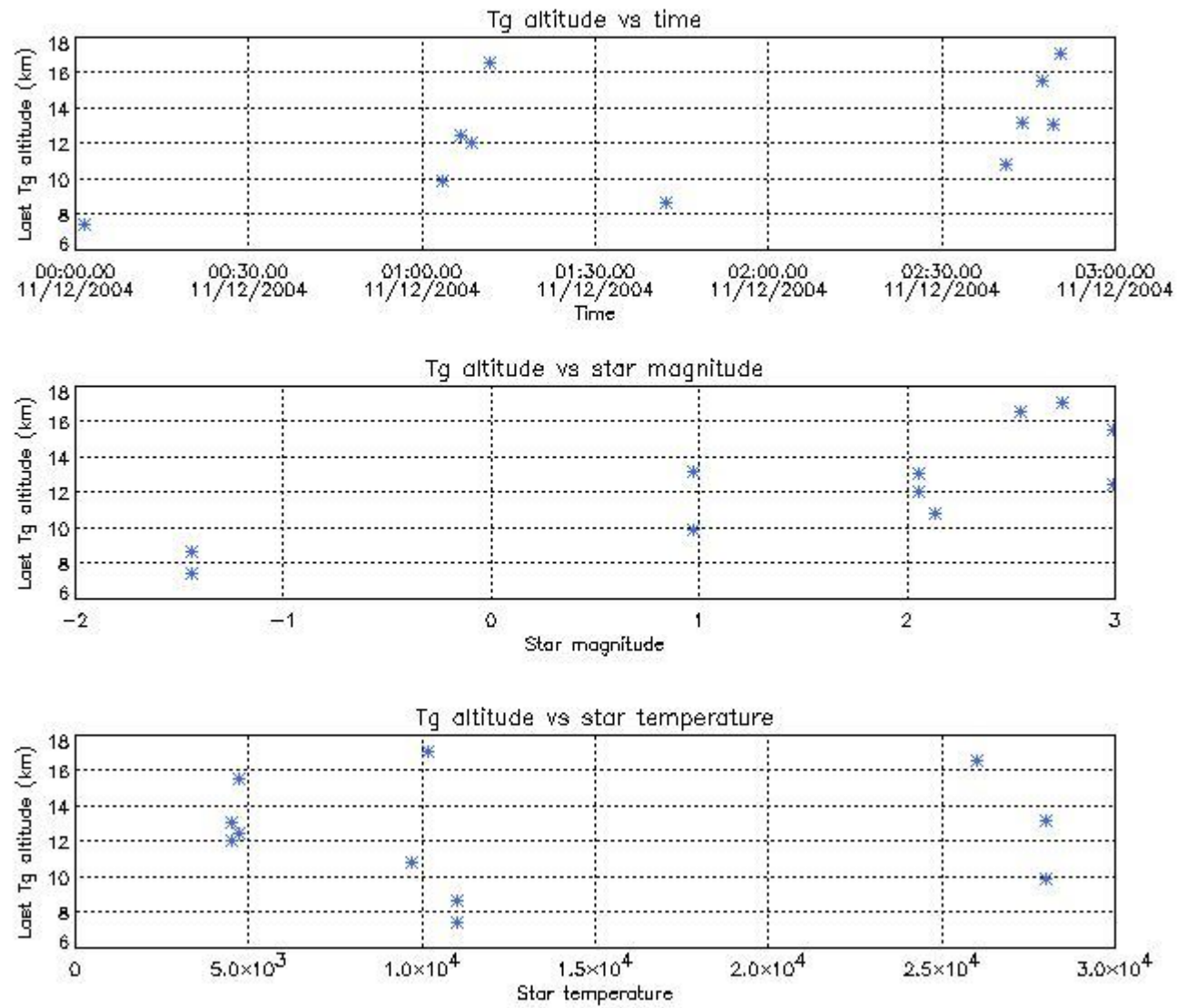
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



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

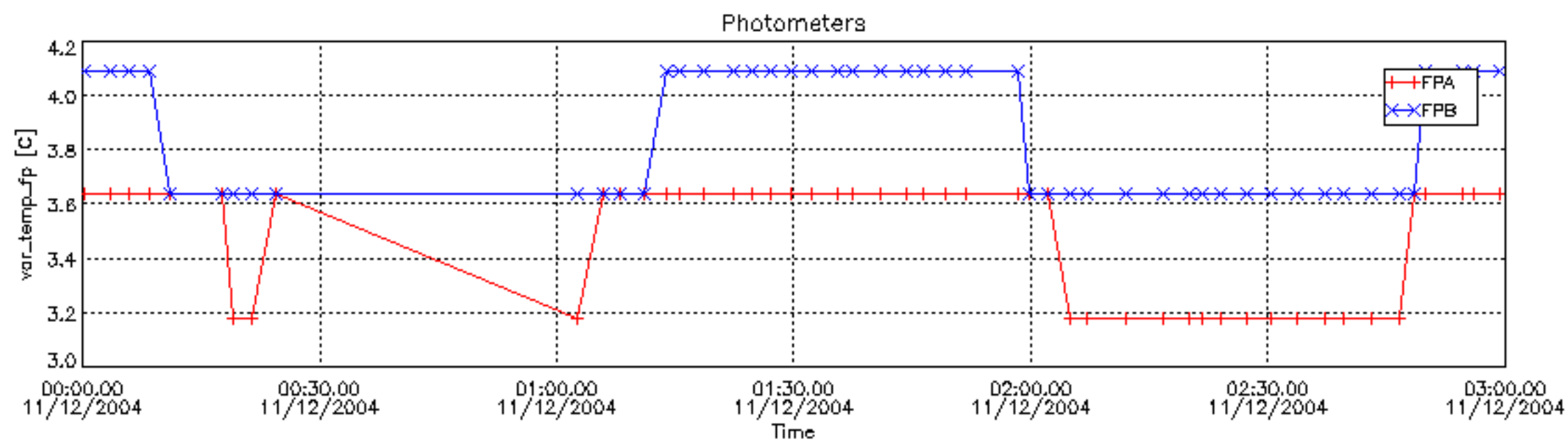
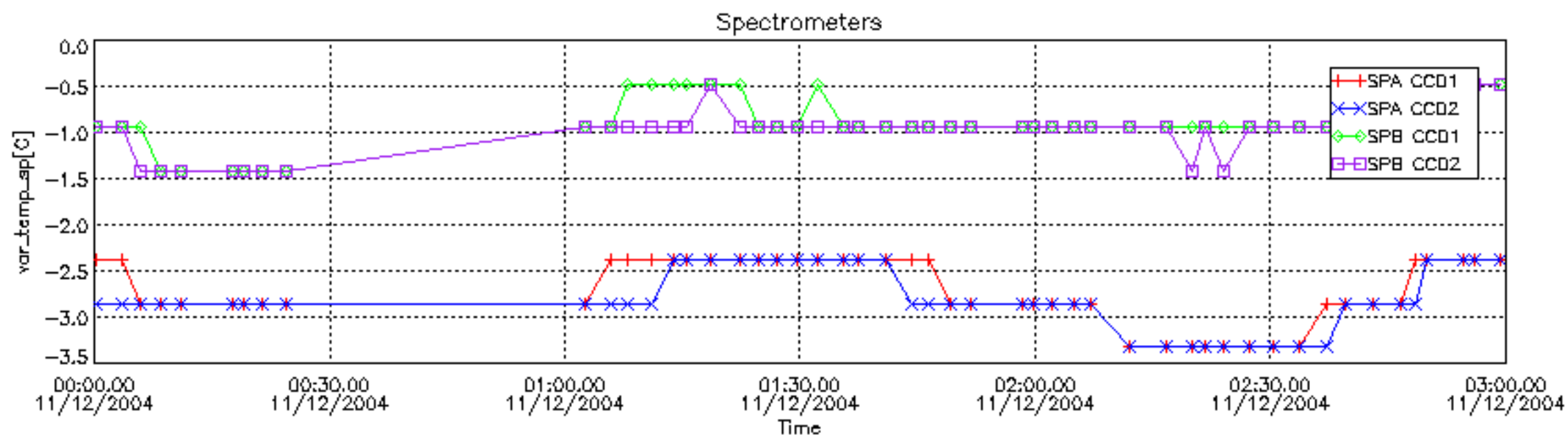
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

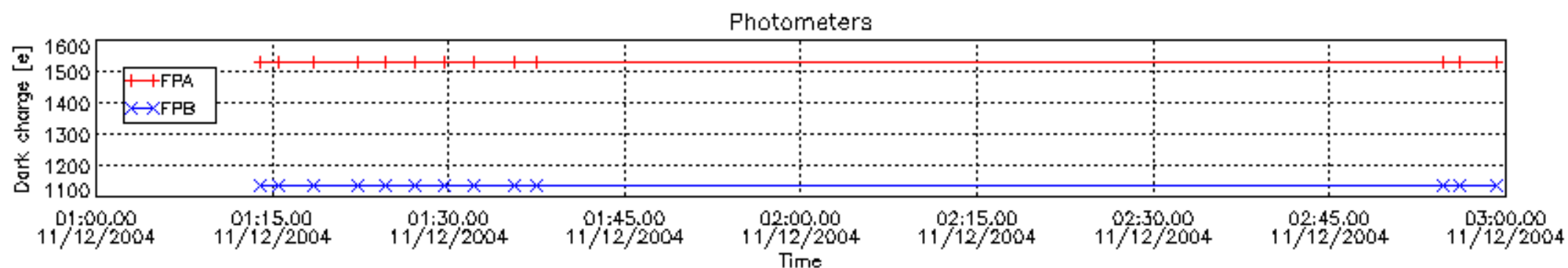
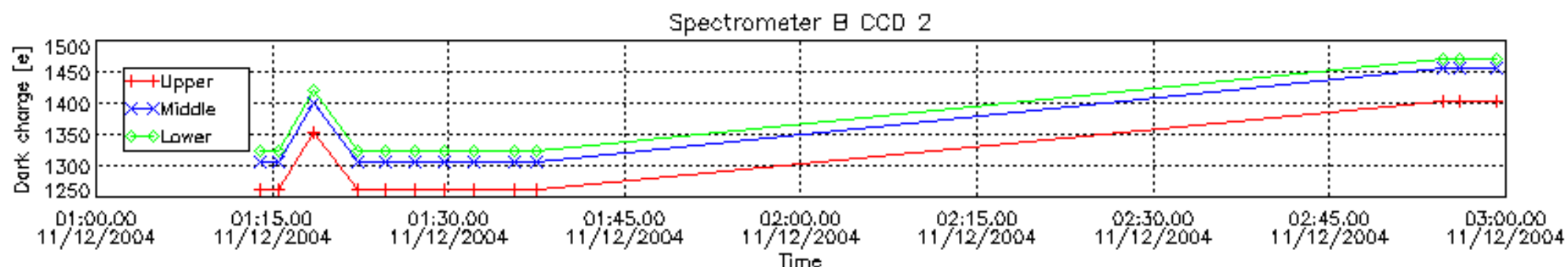
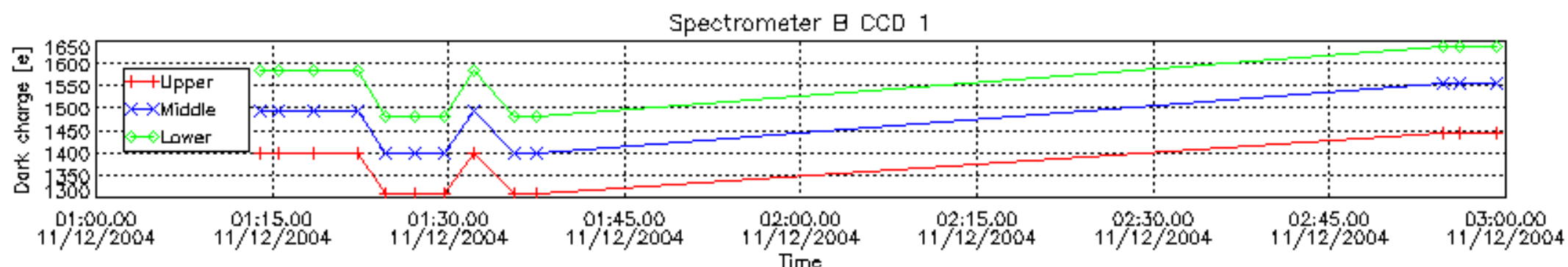
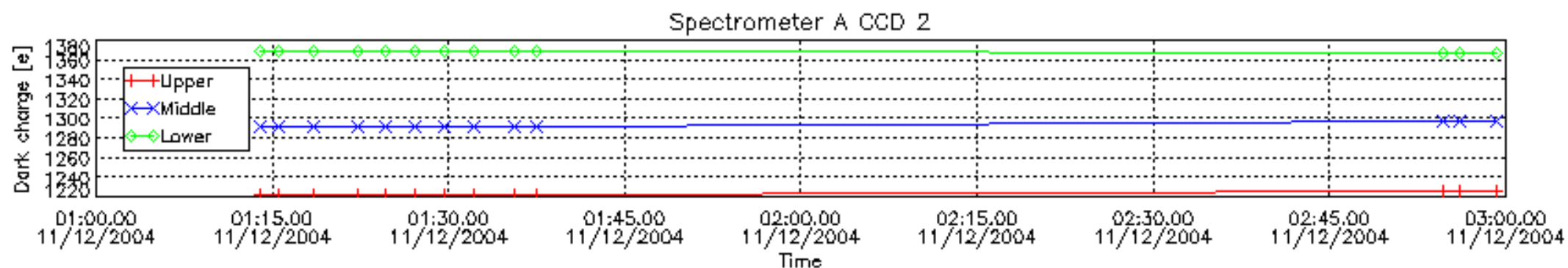
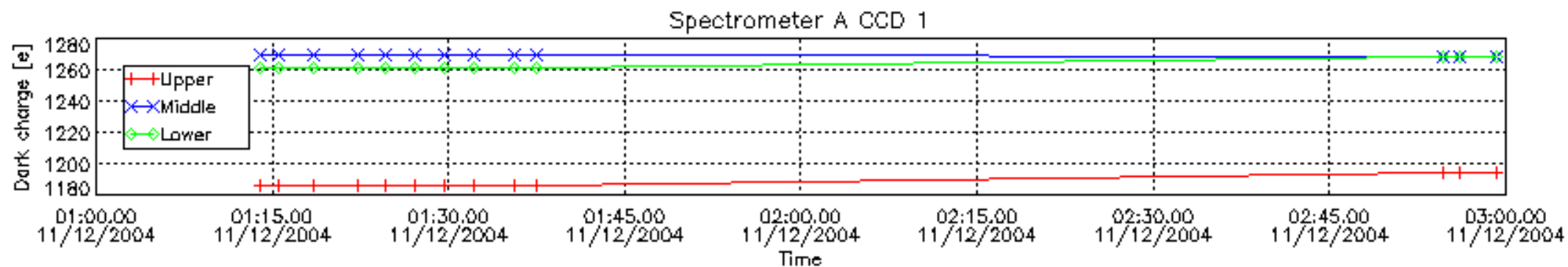
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.7	1447.1	1461.6	1447.3
St. deviation:	4.2802	5.6410	6.7574	8.1811
Maximum:	1502.0	1495.0	1544.0	1518.0
Minimum:	1448.0	1427.0	1447.0	1421.0
Number of data:	16650.	16650.	30550.	30550.

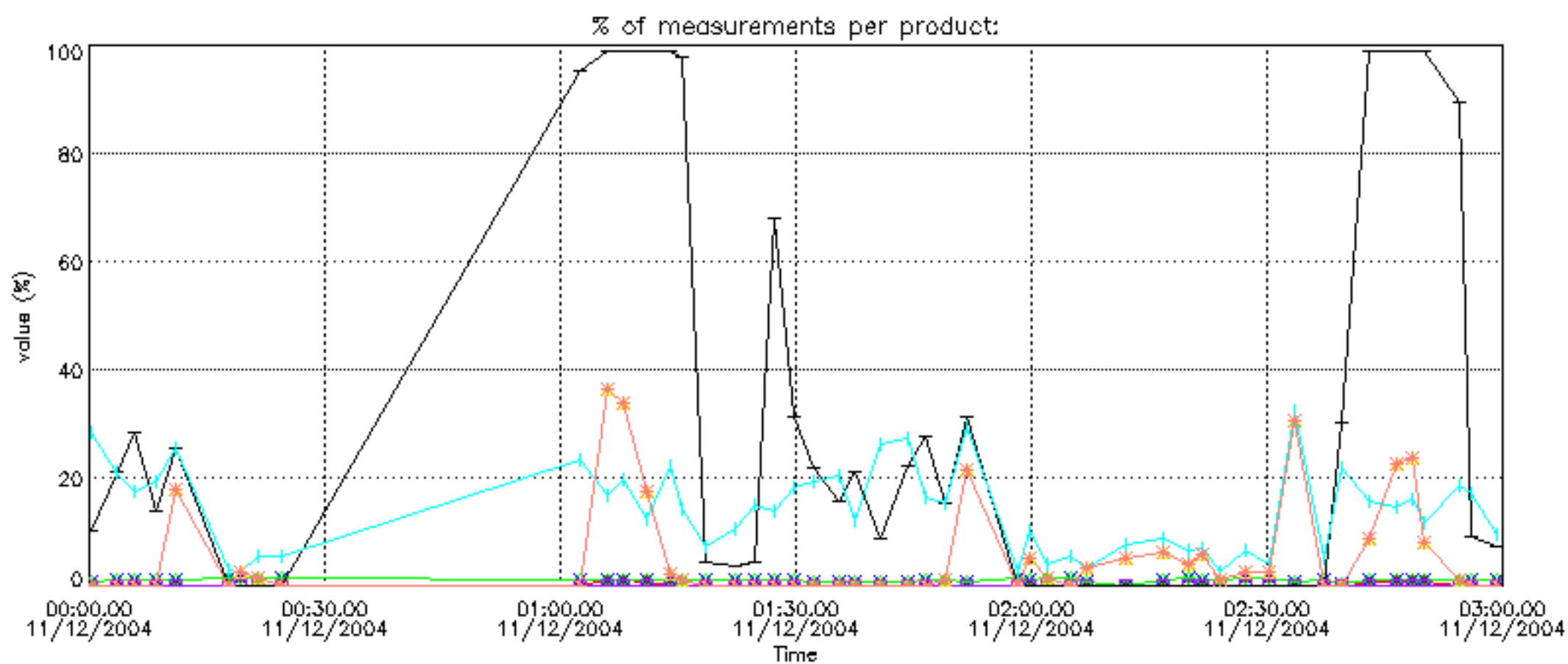
8. Auxiliary Data Files used for the production reported in section 2.2

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.

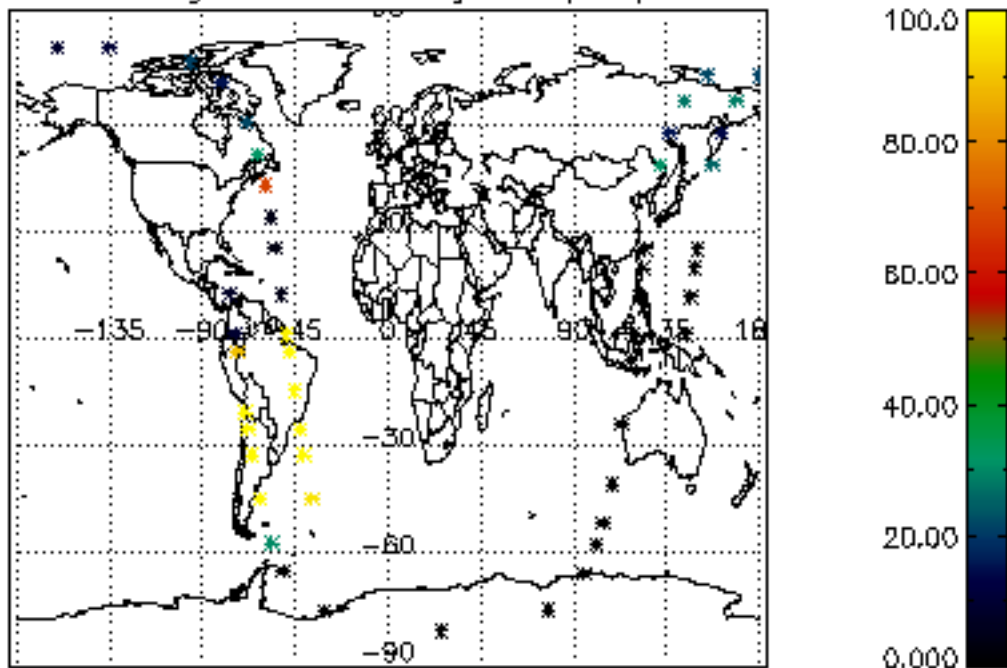
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	11-DEC-2004 00:00:15
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041207_081221_20041205_000000_20100101_000000	1	11-DEC-2004 00:00:15
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	11-DEC-2004 00:00:15
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-DEC-2004 00:00:15
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	11-DEC-2004 00:00:15
ECMWF_FILE	AUX_ECF_AXNECM20041210_060929_20041210_210000_20041211_090000	1	11-DEC-2004 00:00:15
OPTIONAL_ECMWF_FILE	NOT USED	1	11-DEC-2004 00:00:15
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041210_232540_20041210_183242_20041220_213928	1	11-DEC-2004 00:00:15



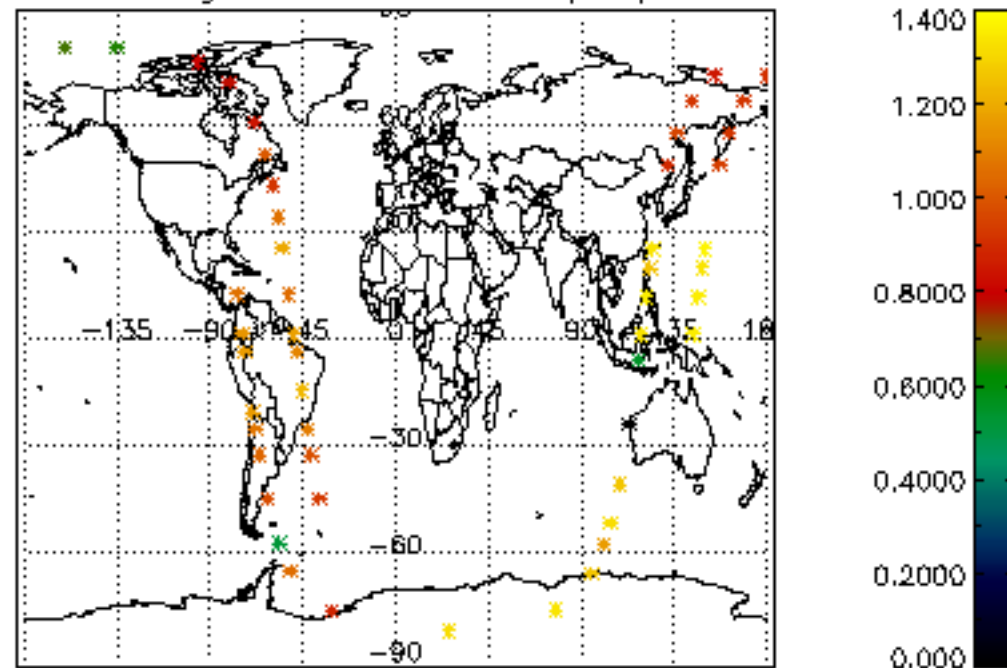




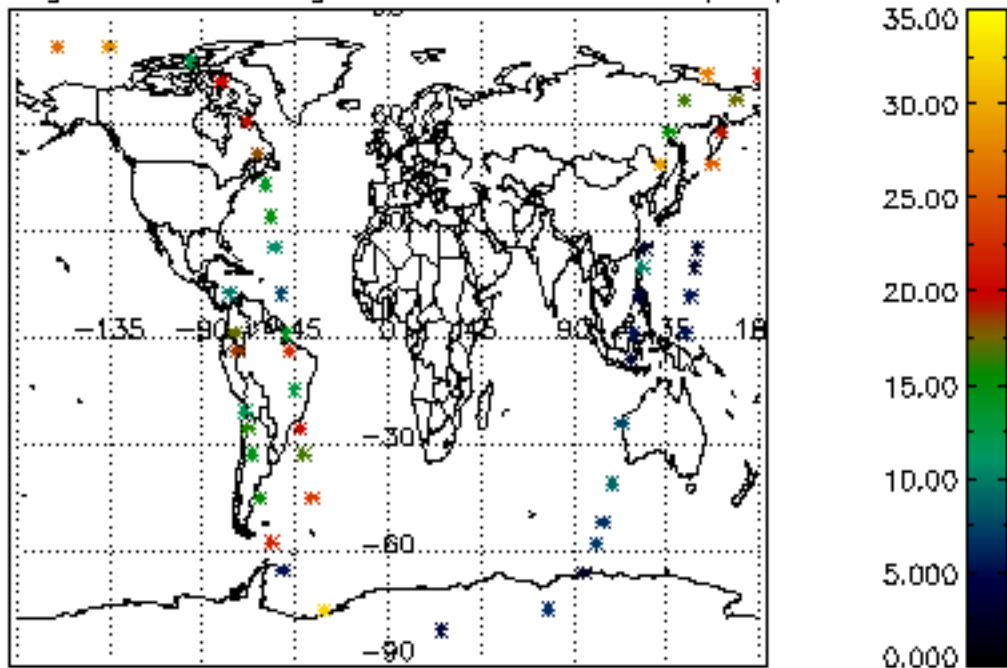
Percentage of cosmic ray hits per profile



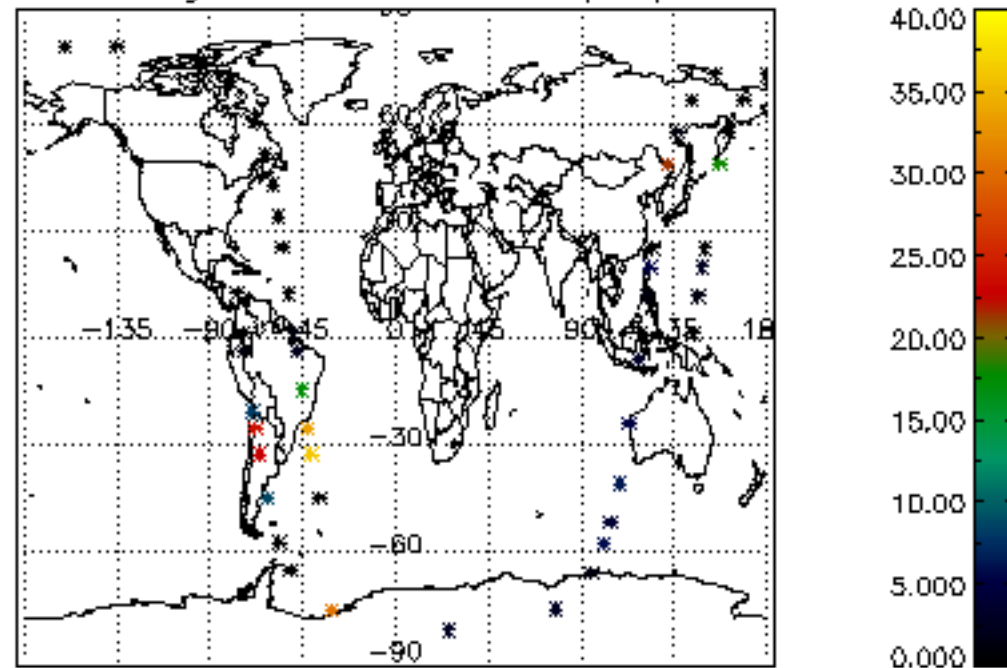
Percentage of datation errors per profile



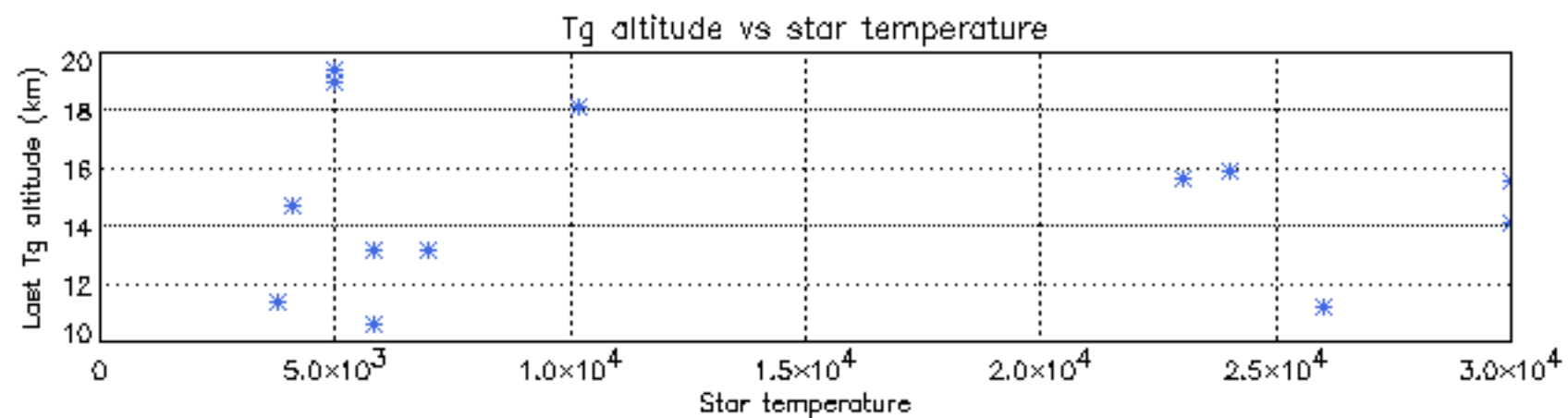
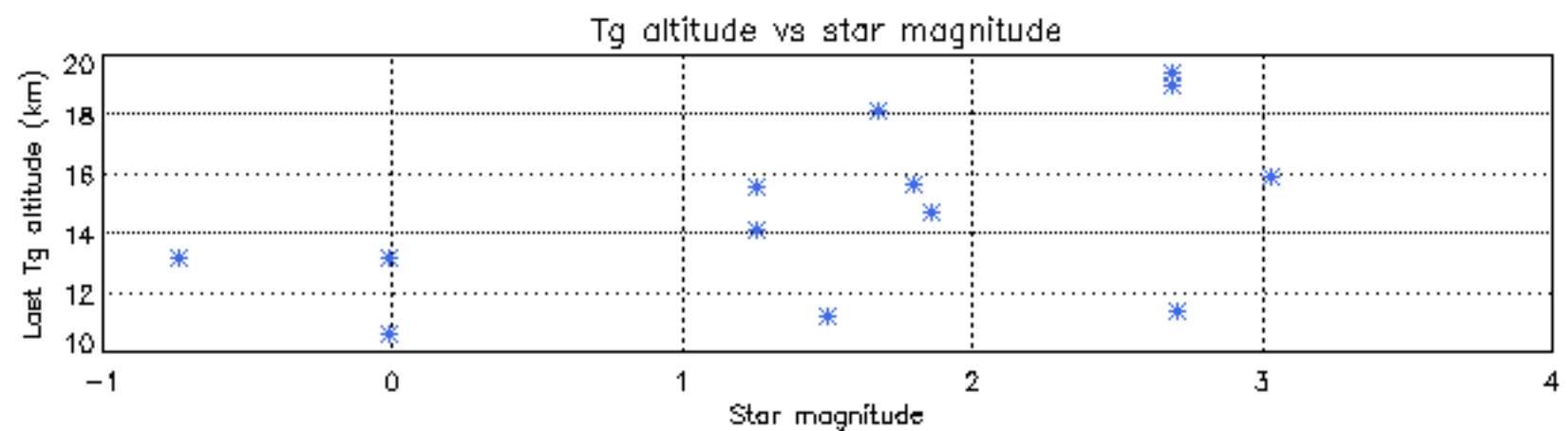
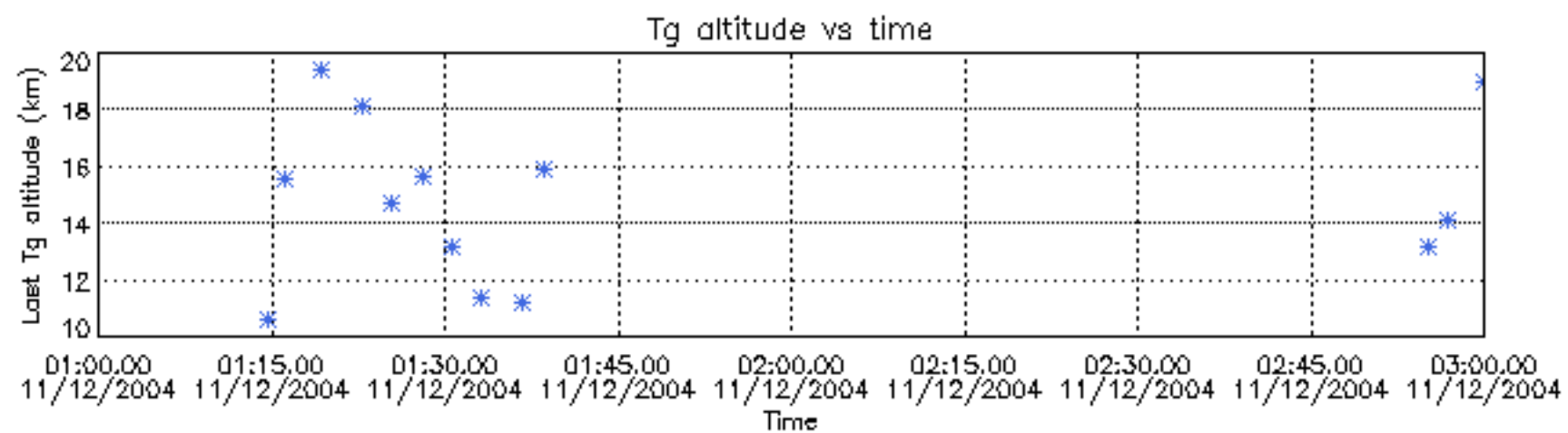
Percentage of star falling outside central band per profile



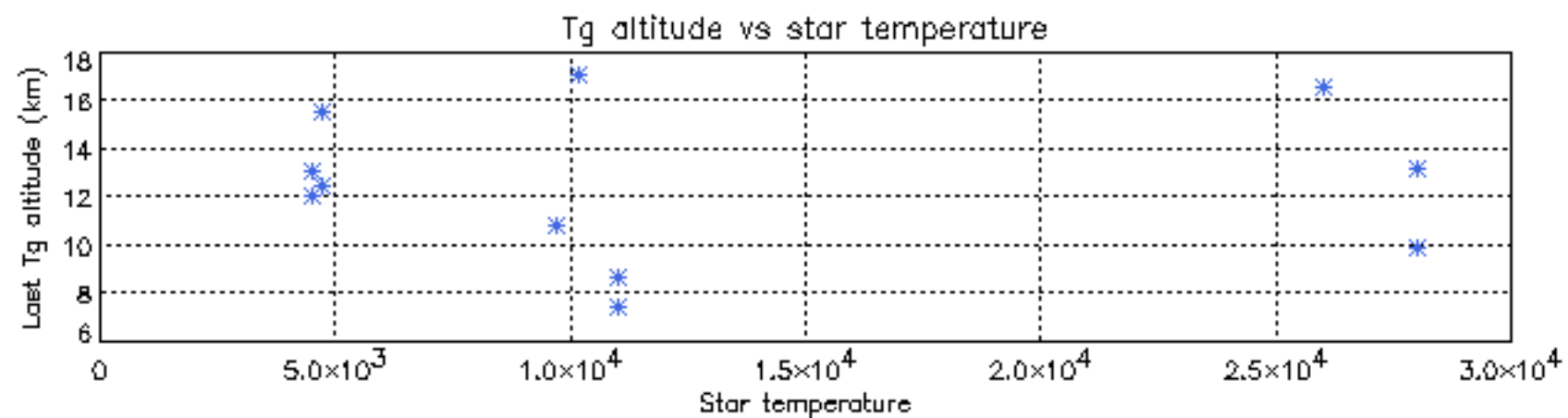
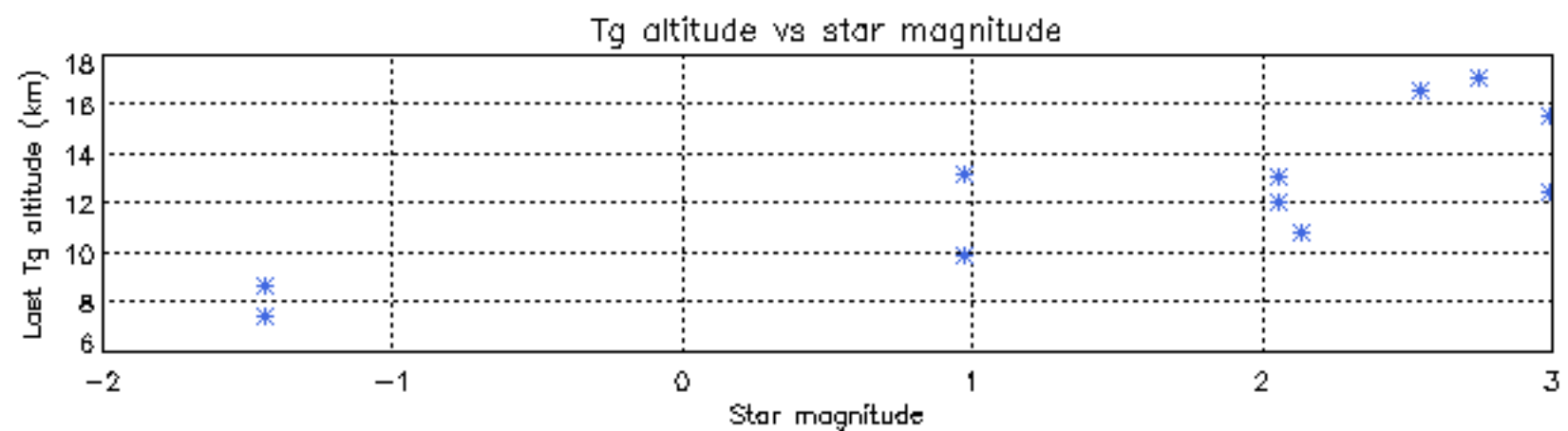
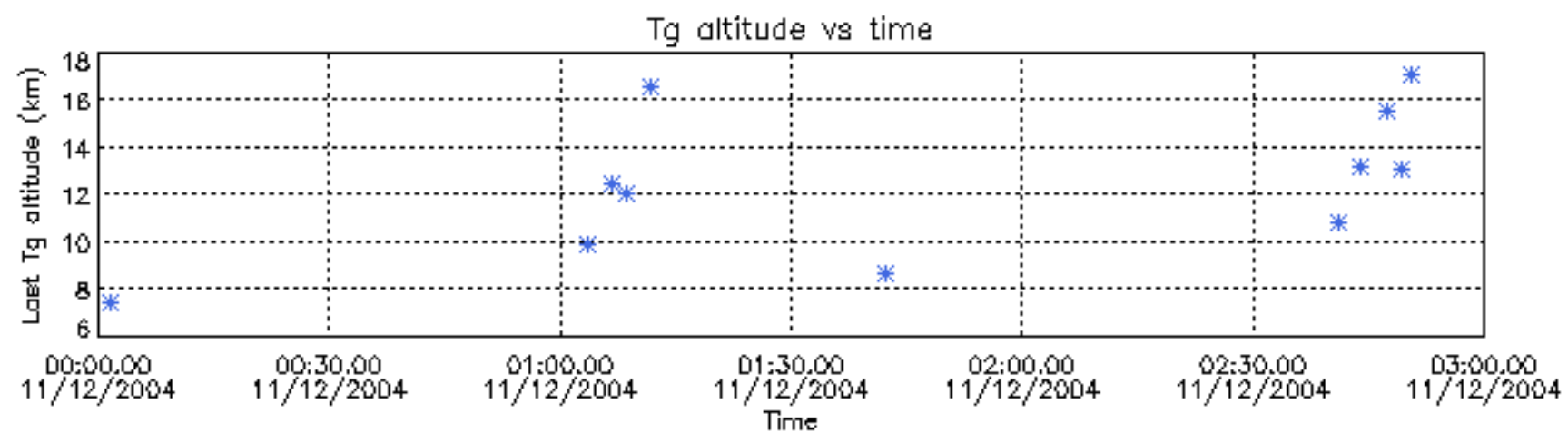
Percentage of saturation errors per profile



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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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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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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 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
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31; 2603.0; 01-DEC-2004 05:34:04; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 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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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
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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
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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
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
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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
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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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15; 207.6; 01-DEC-2004 08:15:21; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;14404
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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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31; 3909.5; 01-DEC-2004 22:41:50; Bright; 49.5; 82; 48Bet UMA ; 2.37; 10600;occ; 99; 0;14412
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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
17;	1748.8;	01-DEC-2004	23:46:25;	Dark	;	61.5;	7;	19Bet Ori	;	0.10;	14000;occ;	123;	0;	14413
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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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32;	4138.2;	02-DEC-2004	00:26:15;	Bright;	;	39.5;	39;	85Eta UMA	;	1.85;	24000;occ;	79;	0;	14413
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37;	5128.9;	02-DEC-2004	00:42:45;	Bright;	;	46.5;	121;	29Gam Vir	;	2.74;	7200;occ;	93;	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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15;	-2124.6;	01-DEC-2004	15:59:28;	Bright;	;	44.0;	82;	48Bet UMA	;	2.37;	10600;occ;	88;	0;	14408
16;	-2024.2;	01-DEC-2004	16:01:09;	Bright;	;	41.5;	32;	77Eps UMA	;	1.76;	11000;occ;	83;	0;	14408
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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37;	4918.1;	04-DEC-2004	23:04:23;	Bright;	84.0;	96;	68Del Leo	; 2.56;	9300;occ;	168;	0;	14455
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26; 174.2; 16-DEC-2004 10:24:05; Dark ; 39.5; 112; Alp Mus ; 2.69; 26000;occ; 79; 0;14620
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27;	419.5;	16-DEC-2004	12:08:46;	Dark	;	42.0;	159;	Ups Car	;	2.92;	7200;occ;	84;	0;	14621
28;	501.8;	16-DEC-2004	12:10:08;	Dark	;	45.0;	71;	Iot Car	;	2.25;	7700;occ;	90;	0;	14621
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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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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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13;-3565.1; 29-DEC-2004 19:16:42; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;14811

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31; -194.1; 31-DEC-2004 20:50:15; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;14840
32; -105.0; 31-DEC-2004 20:51:44; Dark ; 45.0; 95; Zet Cen ; 2.55; 26000;occ; 90; 0;14840
33; -4.7; 31-DEC-2004 20:53:24; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;14840
34; 105.9; 31-DEC-2004 20:55:15; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;14841
35; 227.8; 31-DEC-2004 20:57:17; Dark ; 47.0; 12; Alp1Cru ; 0.77; 30000;occ; 94; 0;14841
36; 400.3; 31-DEC-2004 21:00:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14841
37; 546.0; 31-DEC-2004 21:02:35; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;14841
38; 628.8; 31-DEC-2004 21:03:58; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;14841
39; 724.5; 31-DEC-2004 21:05:33; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;14841
40; 844.5; 31-DEC-2004 21:07:33; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;14841
41; 977.3; 31-DEC-2004 21:09:46; Dark ; 27.0; 2; Alp Car ;-0.74; 7000;occ; 54; 0;14841

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