

GOMOS Daily Report 13-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	15DEC2004 05:01:46

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (13DEC2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (14DEC2004 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)

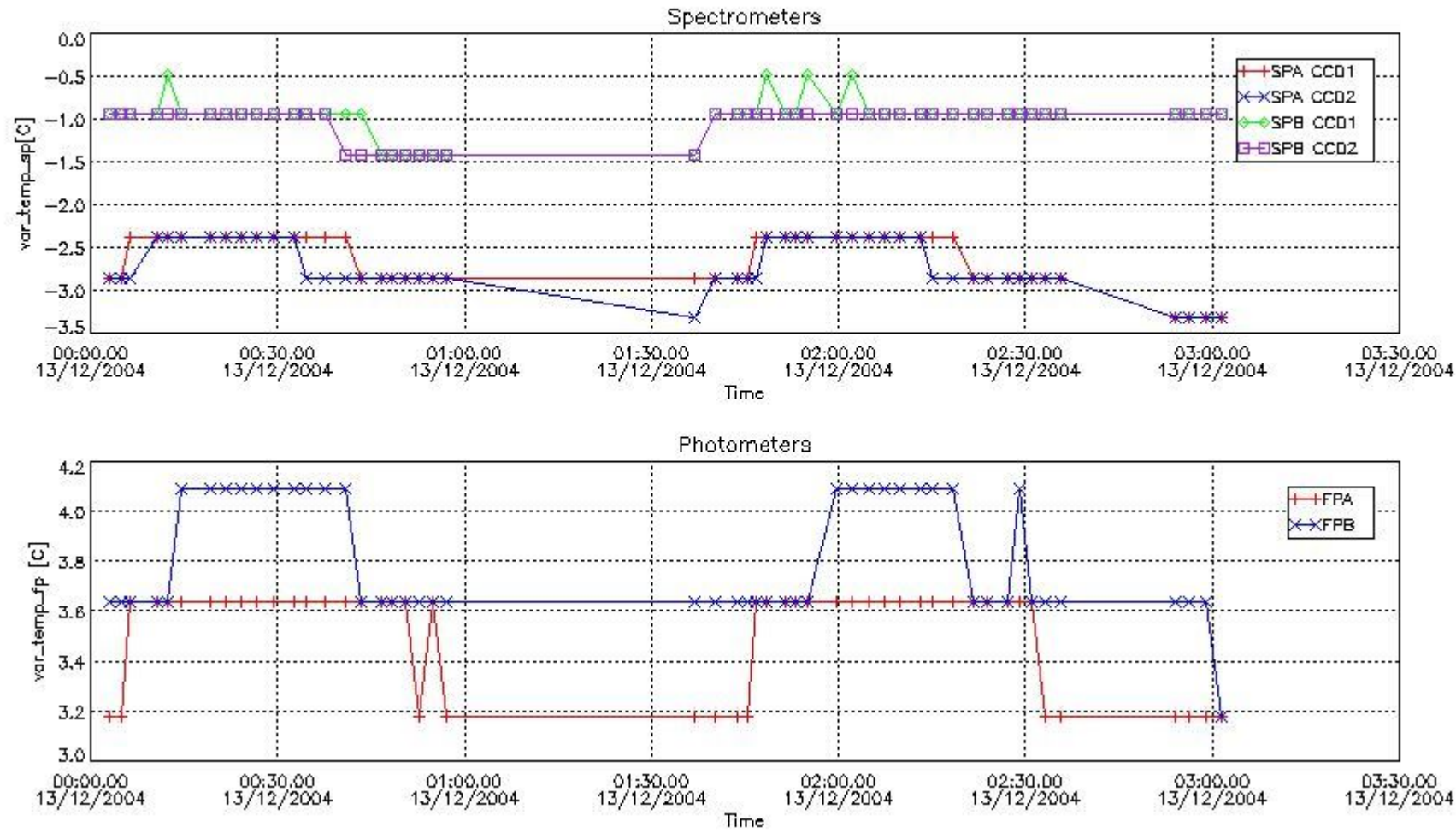
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20041213_000301_000000512032_00488_14570_0001.N1	13-DEC-2004 00:03:01	Twilight	50.500	169	46Gam Hya	2.9910	4700.0	101	14570	No
2	GOM_TRA_1PNPDE20041213_000452_000000452032_00488_14570_0002.N1	13-DEC-2004 00:04:52	Twilight	44.500	54	5The Cen	2.0550	4500.0	89	14570	No
3	GOM_TRA_1PNPDE20041213_000616_000000422032_00488_14570_0003.N1	13-DEC-2004 00:06:16	Twilight	42.000	123	lot Cen	2.7500	10200.	84	14570	No
4	GOM_TRA_1PNPDE20041213_001048_000000442032_00488_14570_0004.N1	13-DEC-2004 00:10:48	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	14570	No
5	GOM_TRA_1PNPDE20041213_001223_000000422032_00489_14571_0005.N1	13-DEC-2004 00:12:23	Dark	41.500	20	Bet Cru	1.2530	30000.	83	14571	No
6	GOM_TRA_1PNPDE20041213_001429_000000402032_00489_14571_0006.N1	13-DEC-2004 00:14:29	Dark	40.000	112	Alp Mus	2.6880	26000.	80	14571	No
7	GOM_TRA_1PNPDE20041213_001912_000000442032_00489_14571_0007.N1	13-DEC-2004 00:19:12	Dark	43.500	29	Bet Car	1.6720	10200.	87	14571	No
8	GOM_TRA_1PNPDE20041213_002139_000000472032_00489_14571_0008.N1	13-DEC-2004 00:21:39	Dark	46.500	41	Eps Car	1.8600	4100.0	93	14571	No
9	GOM_TRA_1PNPDE20041213_002415_000000572032_00489_14571_0009.N1	13-DEC-2004 00:24:15	Dark	57.000	34	Gam2Vel	1.7930	23000.	114	14571	No
10	GOM_TRA_1PNPDE20041213_002638_000000482032_00489_14571_0010.N1	13-DEC-2004 00:26:38	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	14571	No
11	GOM_TRA_1PNPDE20041213_002915_000000552032_00489_14571_0011.N1	13-DEC-2004 00:29:15	Dark	55.000	117	Pi Pup	2.7060	3800.0	110	14571	No
12	GOM_TRA_1PNPDE20041213_003235_000000622032_00489_14571_0012.N1	13-DEC-2004 00:32:35	Dark	62.000	23	21Eps CMa	1.5020	26000.	124	14571	No
13	GOM_TRA_1PNPDE20041213_003427_000000562032_00489_14571_0013.N1	13-DEC-2004 00:34:27	Dark	56.000	179	24Omi2CMa	3.0320	24000.	112	14571	No
14	GOM_TRA_1PNPDE20041213_003740_000000692032_00489_14571_0014.N1	13-DEC-2004 00:37:40	Twilight	69.000	1	9Alp CMa	-1.4400	11000.	138	14571	No
15	GOM_TRA_1PNPDE20041213_004057_000000582032_00489_14571_0015.N1	13-DEC-2004 00:40:57	Bright	58.000	7	19Bet Ori	0.10000	14000.	116	14571	No
16	GOM_TRA_1PNPDE20041213_004319_000000532032_00489_14571_0016.N1	13-DEC-2004 00:43:19	Bright	53.000	30	46Eps Ori	1.6940	30000.	106	14571	No
17	GOM_TRA_1PNPDE20041213_004638_000000702032_00489_14571_0017.N1	13-DEC-2004 00:46:38	Bright	70.000	14	58Alp Ori	0.87000	3000.0	140	14571	No
18	GOM_TRA_1PNPDE20041213_004823_000000532032_00489_14571_0018.N1	13-DEC-2004 00:48:23	Bright	53.000	13	87Alp Tau	0.86700	3800.0	106	14571	No
19	GOM_TRA_1PNPDE20041213_005027_000000392032_00489_14571_0019.N1	13-DEC-2004 00:50:27	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	14571	No
20	GOM_TRA_1PNPDE20041213_005239_000000392032_00489_14571_0020.N1	13-DEC-2004 00:52:39	Bright	39.000	150	44Zet Per	2.8900	28000.	78	14571	No
21	GOM_TRA_1PNPDE20041213_005458_000000382032_00489_14571_0021.N1	13-DEC-2004 00:54:58	Bright	37.500	149	45Eps Per	2.8880	30000.	75	14571	No
22	GOM_TRA_1PNPDE20041213_005708_000000372032_00489_14571_0022.N1	13-DEC-2004 00:57:08	Bright	37.000	175	39Del Per	3.0100	19400.	74	14571	No
23	GOM_TRA_1PNPDE20041213_013651_000000982032_00489_14571_0000.N1	13-DEC-2004 01:36:51	Twilight	97.500	62	94Bet Leo	2.1360	9700.0	195	14571	No
24	GOM_TRA_1PNPDE20041213_014008_000000582032_00489_14571_0001.N1	13-DEC-2004 01:40:08	Twilight	57.500	15	67Alp Vir	0.97600	28000.	115	14571	No
25	GOM_TRA_1PNPDE20041213_014337_000000472032_00489_14571_0002.N1	13-DEC-2004 01:43:37	Twilight	47.000	169	46Gam Hya	2.9910	4700.0	94	14571	No
26	GOM_TRA_1PNPDE20041213_014527_000000492032_00489_14571_0003.N1	13-DEC-2004 01:45:27	Twilight	48.500	54	5The Cen	2.0550	4500.0	97	14571	No
27	GOM_TRA_1PNPDE20041213_014654_000000432032_00489_14571_0004.N1	13-DEC-2004 01:46:54	Twilight	43.000	123	lot Cen	2.7500	10200.	86	14571	No
28	GOM_TRA_1PNPDE20041213_014829_000000422032_00489_14571_0005.N1	13-DEC-2004 01:48:29	Twilight	41.500	95	Zet Cen	2.5450	26000.	83	14571	No
29	GOM_TRA_1PNPDE20041213_015124_000000522032_00489_14571_0006.N1	13-DEC-2004 01:51:24	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	14571	No
30	GOM_TRA_1PNPDE20041213_015259_000000492032_00490_14572_0007.N1	13-DEC-2004 01:52:59	Dark	48.500	20	Bet Cru	1.2530	30000.	97	14572	No
31	GOM_TRA_1PNPDE20041213_015506_000000392032_00490_14572_0008.N1	13-DEC-2004 01:55:06	Dark	39.000	112	Alp Mus	2.6880	26000.	78	14572	No
32	GOM_TRA_1PNPDE20041213_015949_000000422032_00490_14572_0009.N1	13-DEC-2004 01:59:49	Dark	41.500	29	Bet Car	1.6720	10200.	83	14572	No
33	GOM_TRA_1PNPDE20041213_020215_000000502032_00490_14572_0010.N1	13-DEC-2004 02:02:15	Dark	49.500	41	Eps Car	1.8600	4100.0	99	14572	No
34	GOM_TRA_1PNPDE20041213_020453_000000522032_00490_14572_0011.N1	13-DEC-2004 02:04:53	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	14572	No
35	GOM_TRA_1PNPDE20041213_020714_000000492032_00490_14572_0012.N1	13-DEC-2004 02:07:14	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	14572	No
36	GOM_TRA_1PNPDE20041213_020951_000000542032_00490_14572_0013.N1	13-DEC-2004 02:09:51	Dark	54.000	117	Pi Pup	2.7060	3800.0	108	14572	No
37	GOM_TRA_1PNPDE20041213_021312_000000622032_00490_14572_0014.N1	13-DEC-2004 02:13:12	Dark	61.500	23	21Eps CMa	1.5020	26000.	123	14572	No
38	GOM_TRA_1PNPDE20041213_021504_000000602032_00490_14572_0015.N1	13-DEC-2004 02:15:04	Dark	59.500	179	24Omi2CMa	3.0320	24000.	119	14572	No
39	GOM_TRA_1PNPDE20041213_021816_000000692032_00490_14572_0016.N1	13-DEC-2004 02:18:16	Twilight	69.000	1	9Alp CMa	-1.4400	11000.	138	14572	No
40	GOM_TRA_1PNPDE20041213_022134_000000562032_00490_14572_0017.N1	13-DEC-2004 02:21:34	Bright	55.500	7	19Bet Ori	0.10000	14000.	111	14572	No
41	GOM_TRA_1PNPDE20041213_022354_000000522032_00490_14572_0018.N1	13-DEC-2004 02:23:54	Bright	52.000	30	46Eps Ori	1.6940	30000.	104	14572	No
42	GOM_TRA_1PNPDE20041213_022714_000000702032_00490_14572_0019.N1	13-DEC-2004 02:27:14	Bright	70.000	14	58Alp Ori	0.87000	3000.0	140	14572	No
43	GOM_TRA_1PNPDE20041213_022858_000000542032_00490_14572_0020.N1	13-DEC-2004 02:28:58	Bright	53.500	13	87Alp Tau	0.86700	3800.0	107	14572	No
44	GOM_TRA_1PNPDE20041213_023104_000000392032_00490_14572_0021.N1	13-DEC-2004 02:31:04	Bright	39.000	146	25Eta Tau	2.8730	15200.	78	14572	No
45	GOM_TRA_1PNPDE20041213_023315_000000392032_00490_14572_0022.N1	13-DEC-2004 02:33:15	Bright	39.000	150	44Zet Per	2.8900	28000.	78	14572	No
46	GOM_TRA_1PNPDE20041213_023534_000000382032_00490_14572_0023.N1	13-DEC-2004 02:35:34	Bright	38.000	149	45Eps Per	2.8880	30000.	76	14572	No

47	GOM_TRA_1PNPDE20041213_025409_000000412032_00490_14572_0000.N1	13-DEC-2004 02:54:09	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	14572	No
48	GOM_TRA_1PNPDE20041213_025622_000000512032_00490_14572_0001.N1	13-DEC-2004 02:56:22	Bright	50.500	82	48Bet UMa	2.3650	10600.	101	14572	No
49	GOM_TRA_1PNPDE20041213_025855_000000412032_00490_14572_0002.N1	13-DEC-2004 02:58:55	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	14572	No
50	GOM_TRA_1PNPDE20041213_030124_000000572032_00490_14572_0003.N1	13-DEC-2004 03:01:24	Bright	57.000	39	85Eta UMa	1.8540	24000.	114	14572	No

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



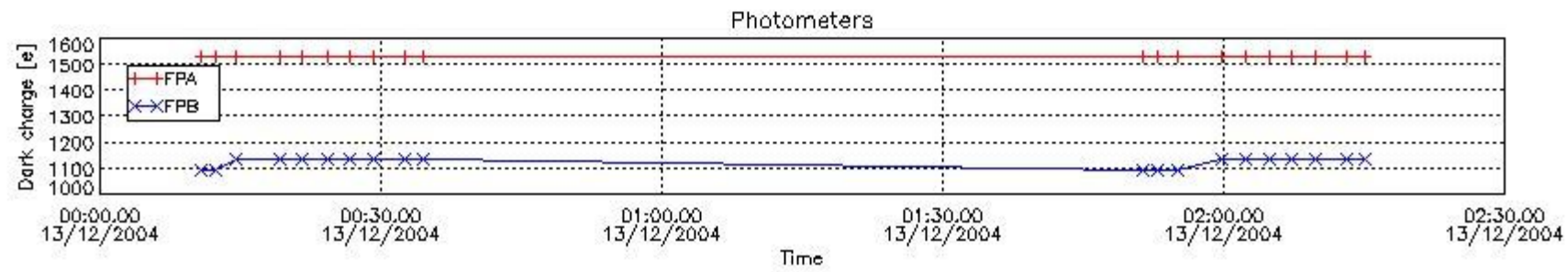
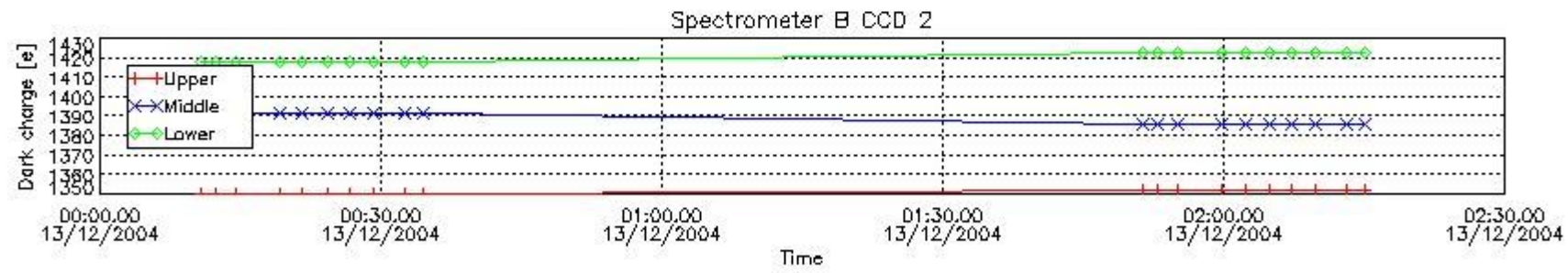
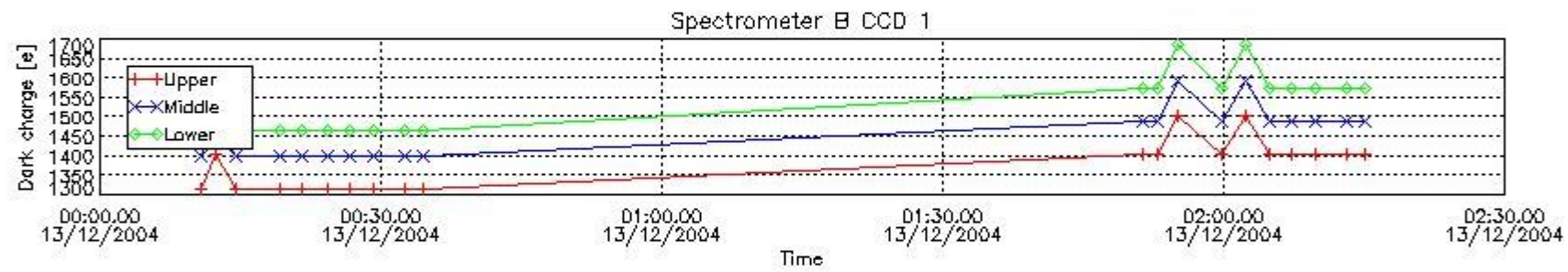
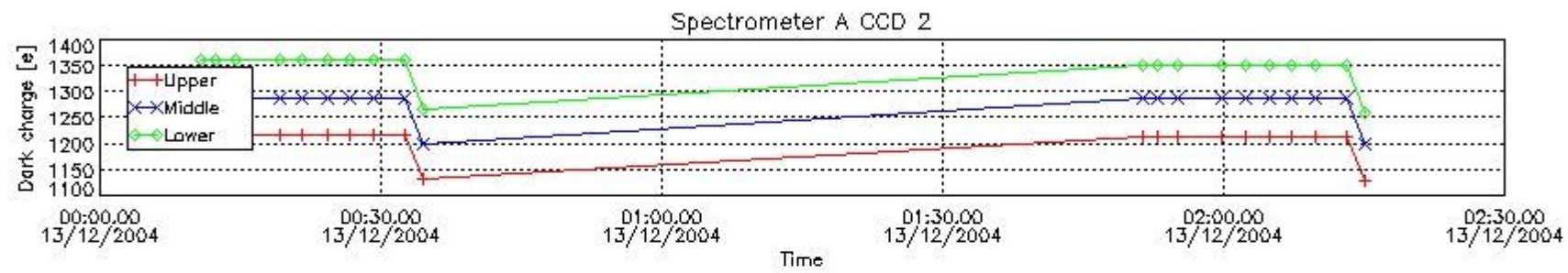
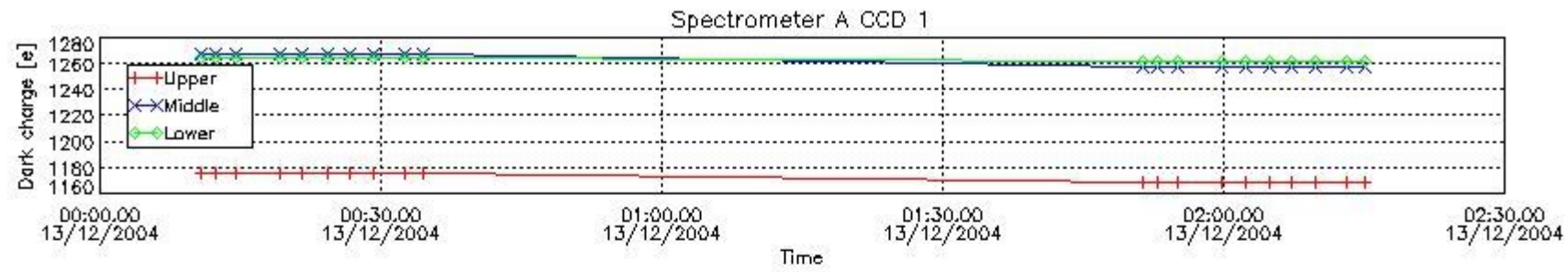
4. Overview of dark signal processing per product

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



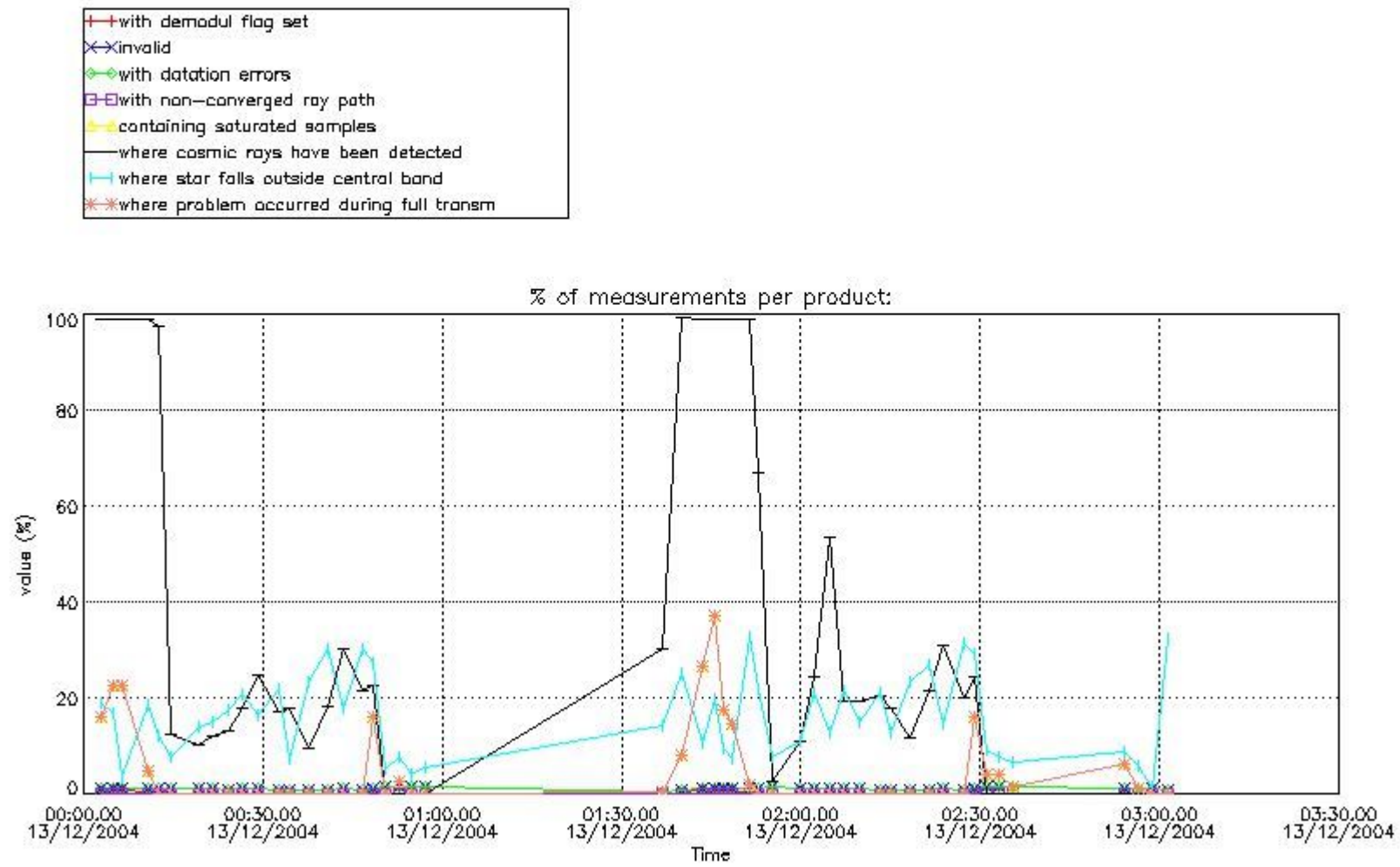
5. Demodulation flag and quality information monitoring

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.

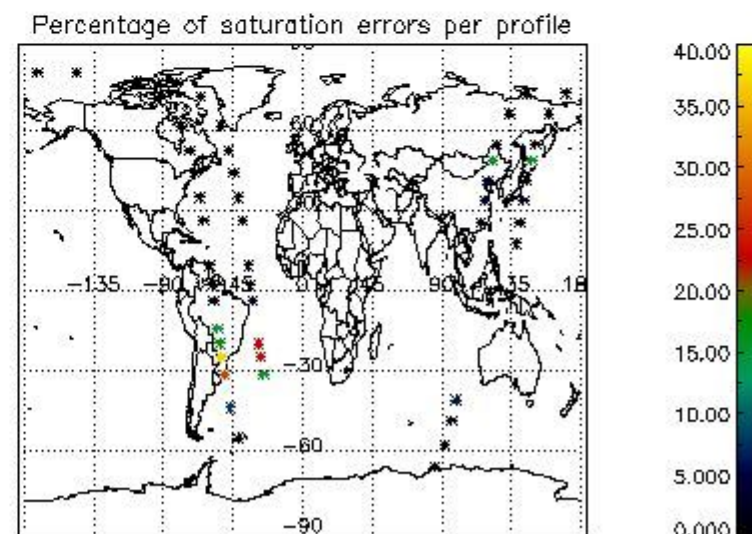
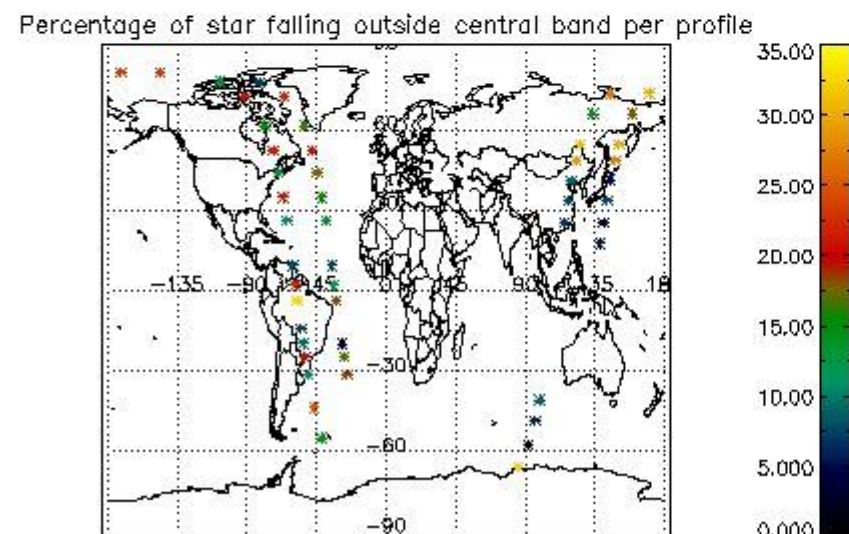
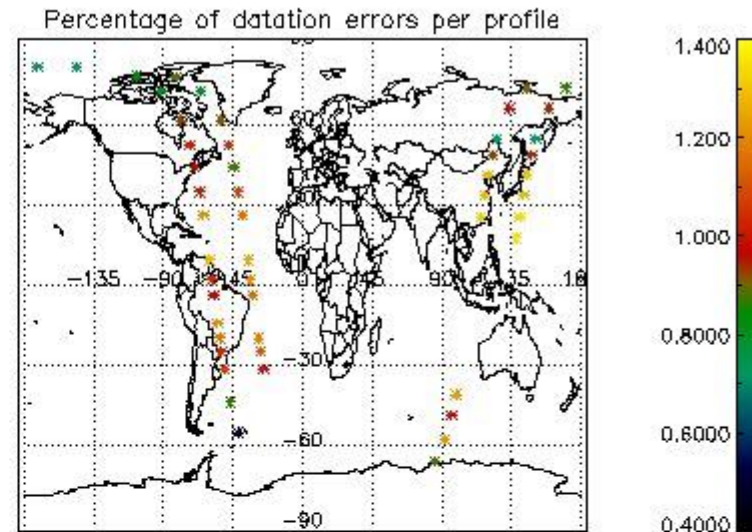
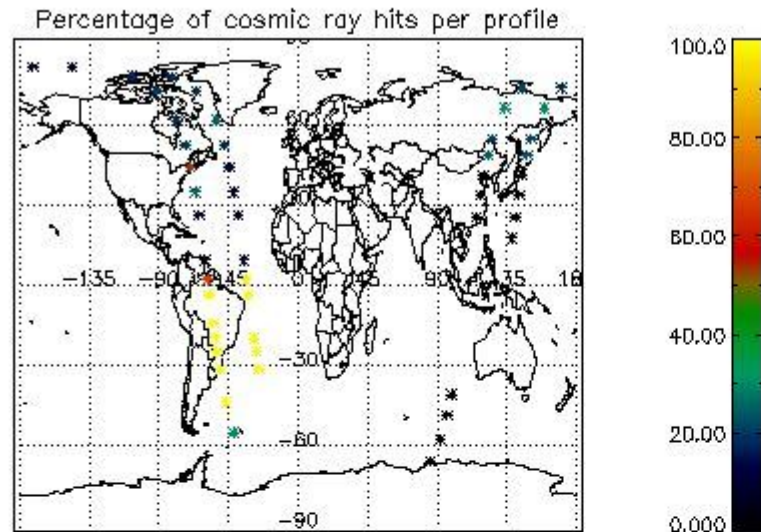
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.0000 %
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)



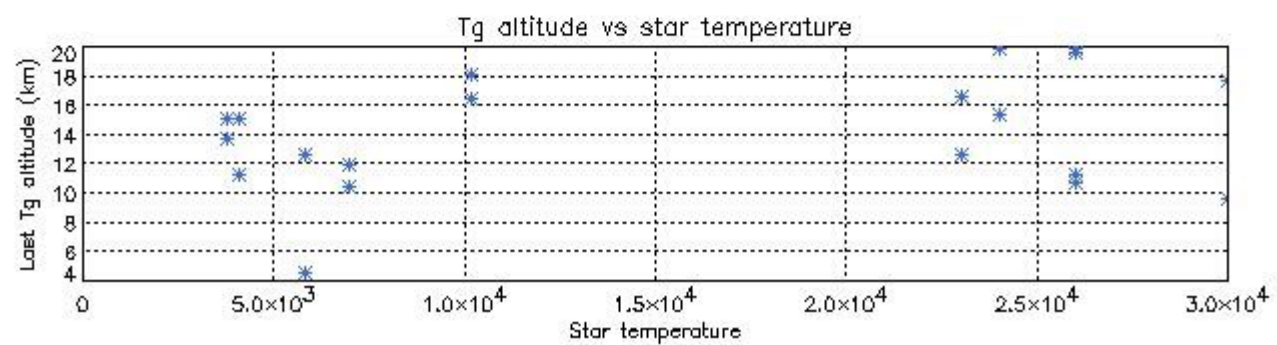
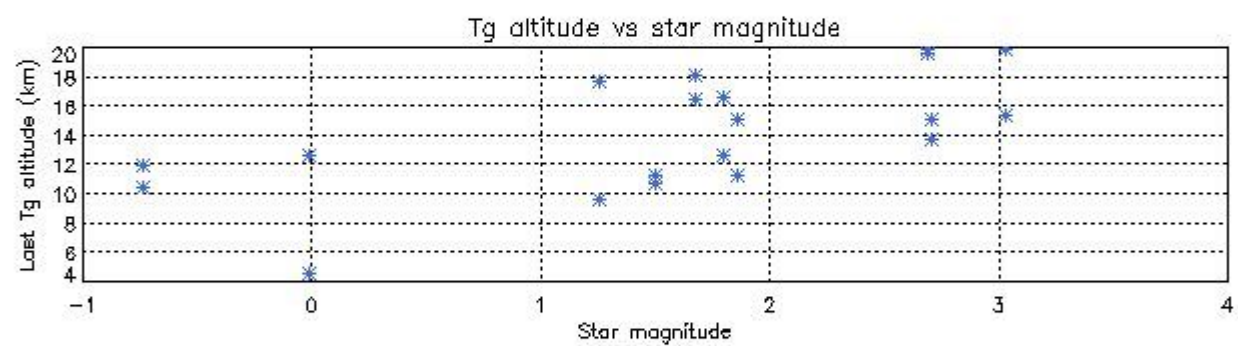
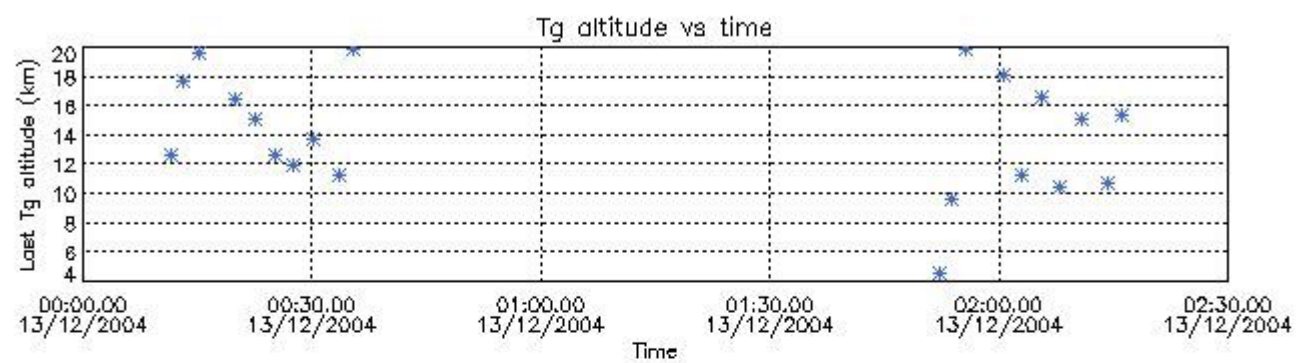
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.107	14.882	14.326
St. deviation:	4.0006	7.3262	4.7646
Maximum:	19.905	25.743	23.425
Minimum:	4.4792	4.9704	8.0265
Number of data:	20.000	19.000	11.000

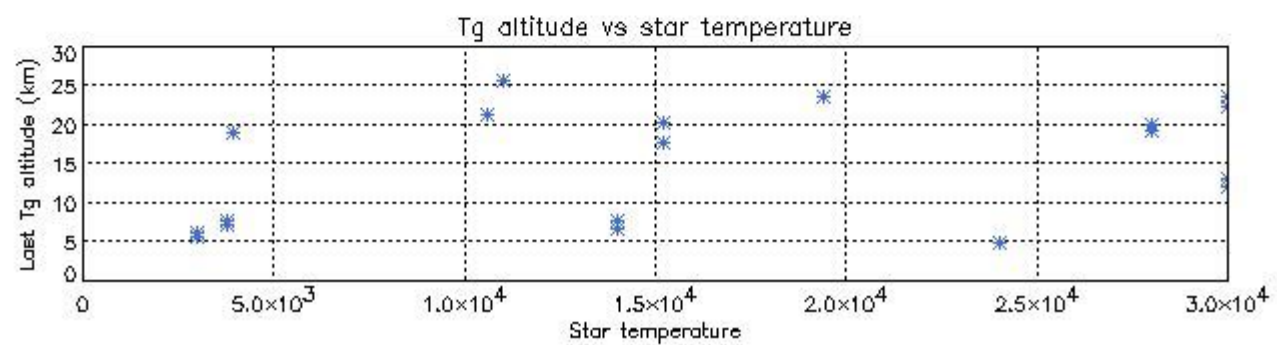
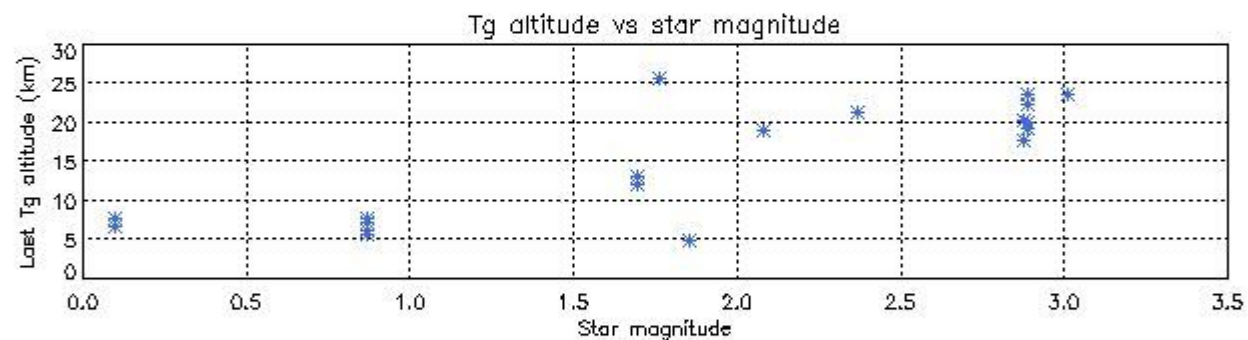
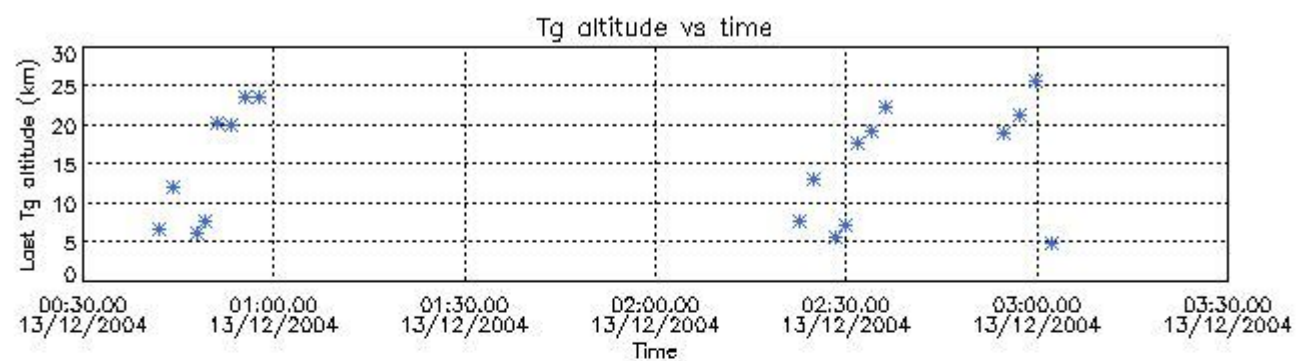
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



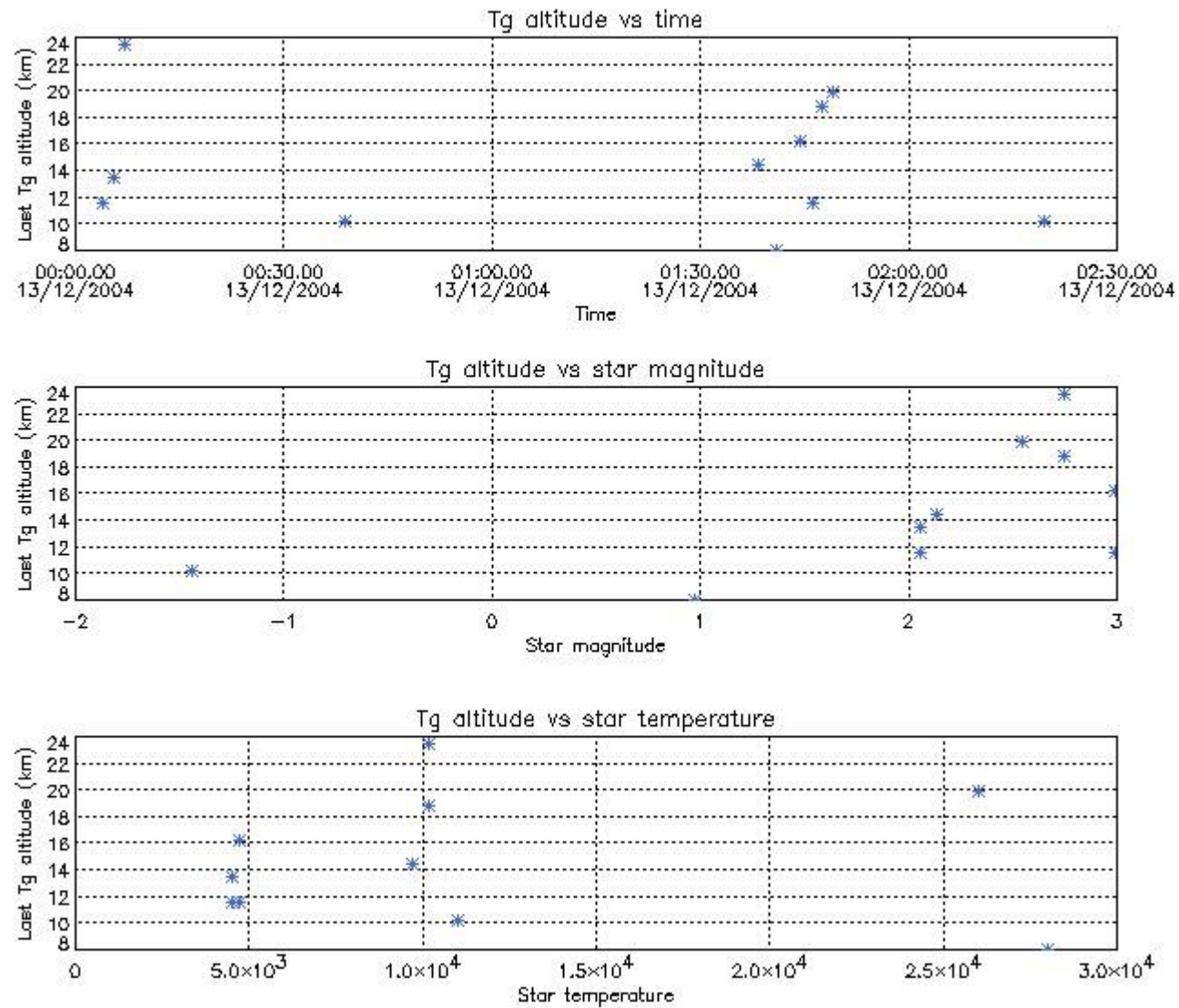
6.3 Plot for BRIGHT limb products

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

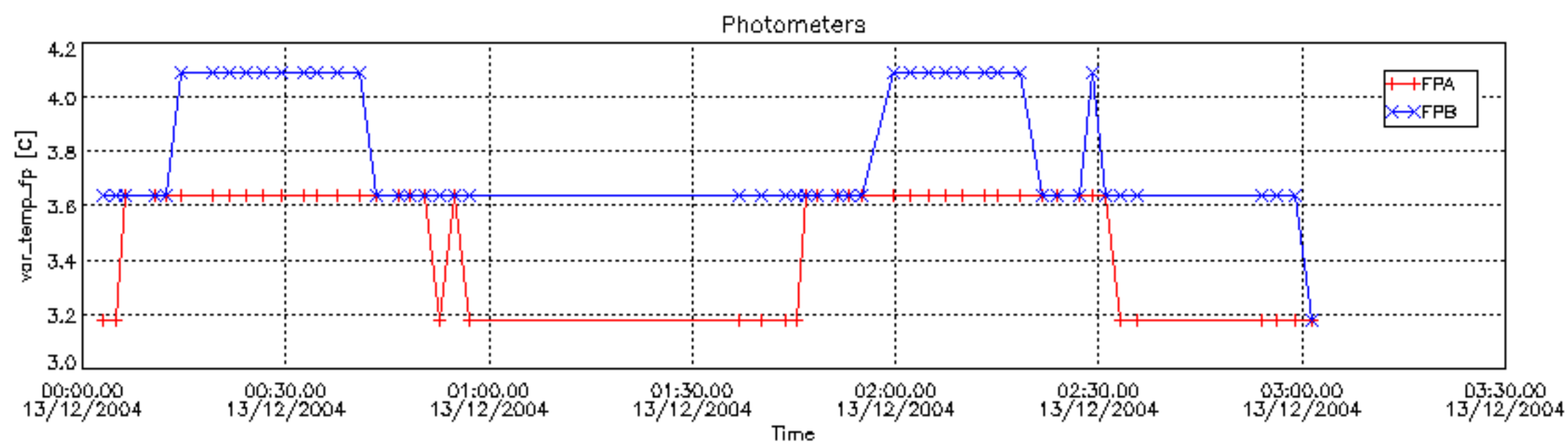
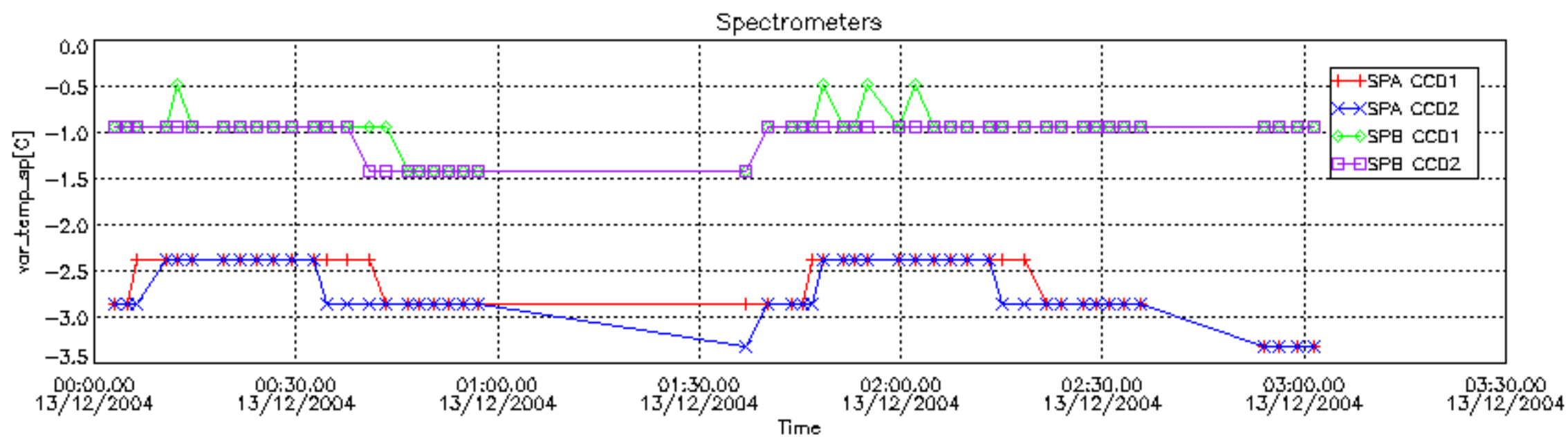
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

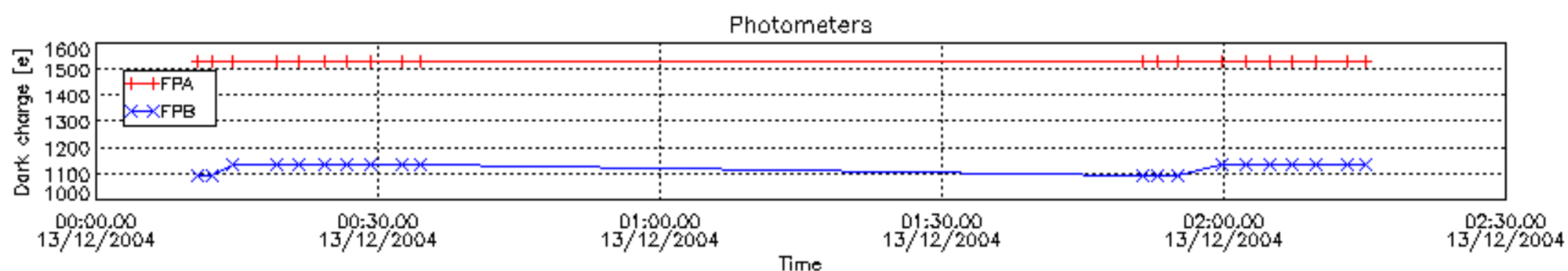
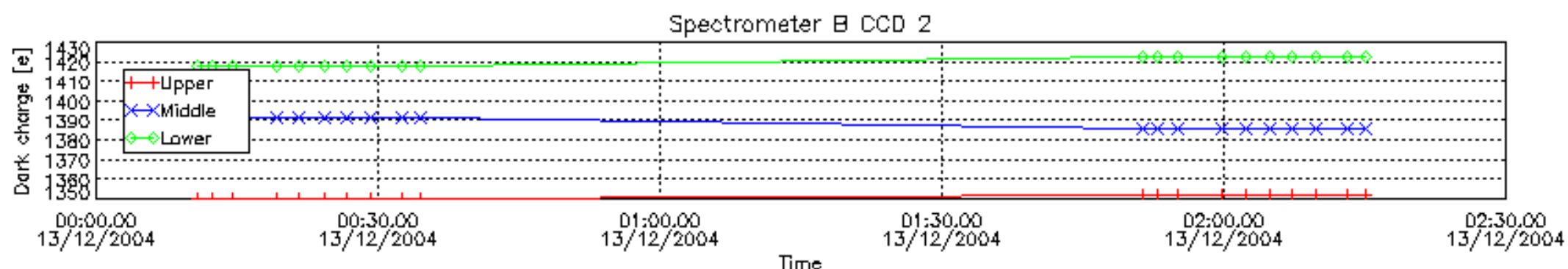
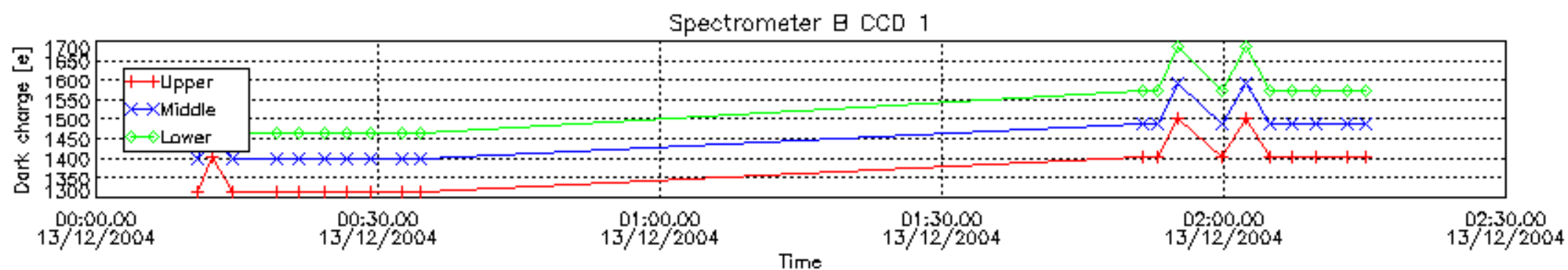
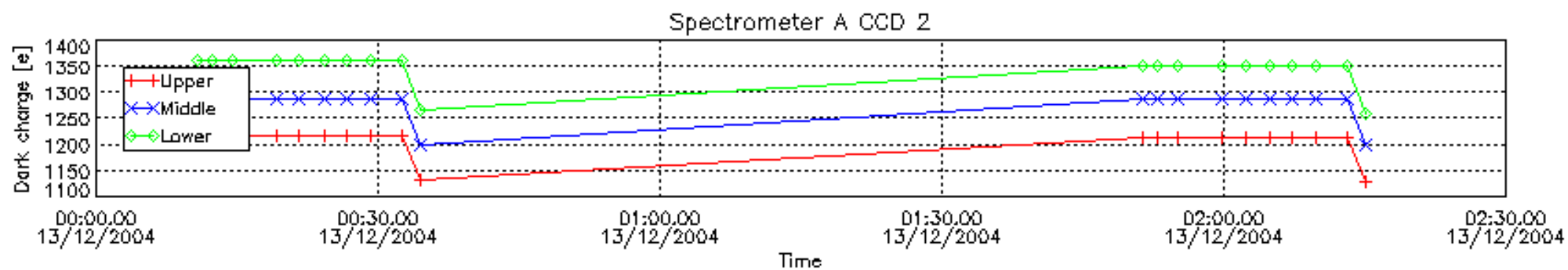
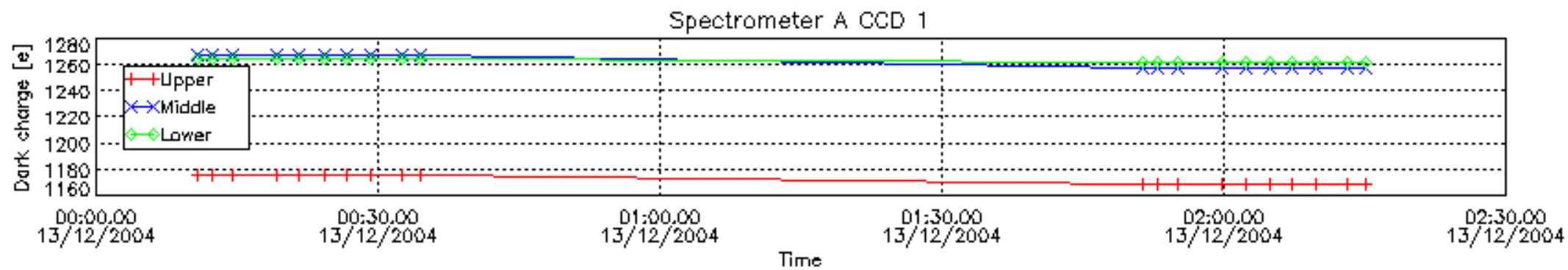
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.1	1447.7	1462.3	1447.3
St. deviation:	4.8195	6.5309	7.5948	9.3527
Maximum:	1507.0	1499.0	1520.0	1507.0
Minimum:	1425.0	1409.0	1439.0	1420.0
Number of data:	24950.	24950.	21750.	21750.

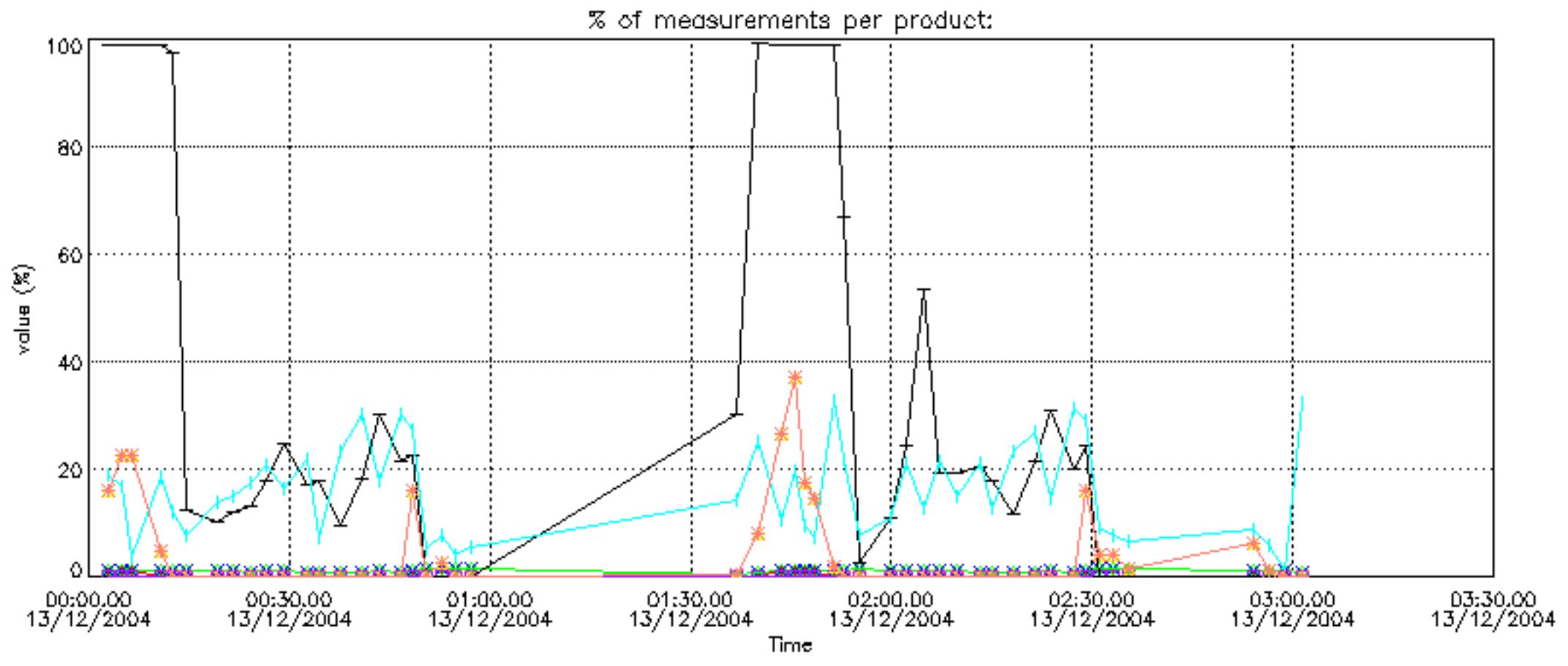
8. Auxiliary Data Files used for the production reported in section 2.2

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

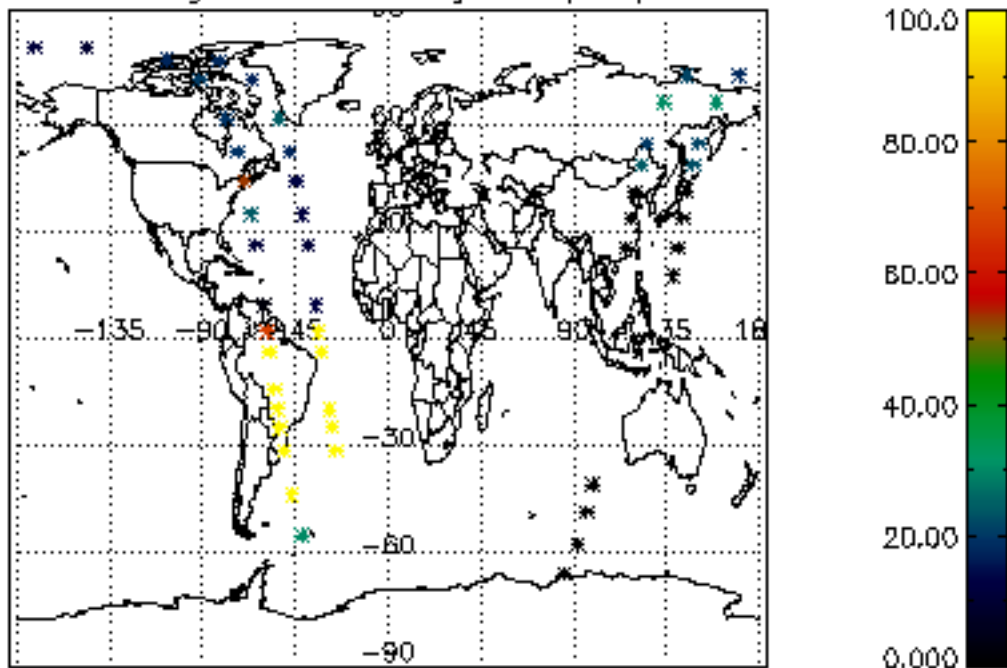
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	13-DEC-2004 00:03:01
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041207_081221_20041205_000000_20100101_000000	1	13-DEC-2004 00:03:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	13-DEC-2004 00:03:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-DEC-2004 00:03:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	13-DEC-2004 00:03:01
ECMWF_FILE	AUX_ECF_AXNECM20041212_060608_20041212_210000_20041213_090000	1	13-DEC-2004 00:03:01
OPTIONAL_ECMWF_FILE	NOT USED	1	13-DEC-2004 00:03:01
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041212_003533_20041211_194141_20041221_210751	1	13-DEC-2004 00:03:01



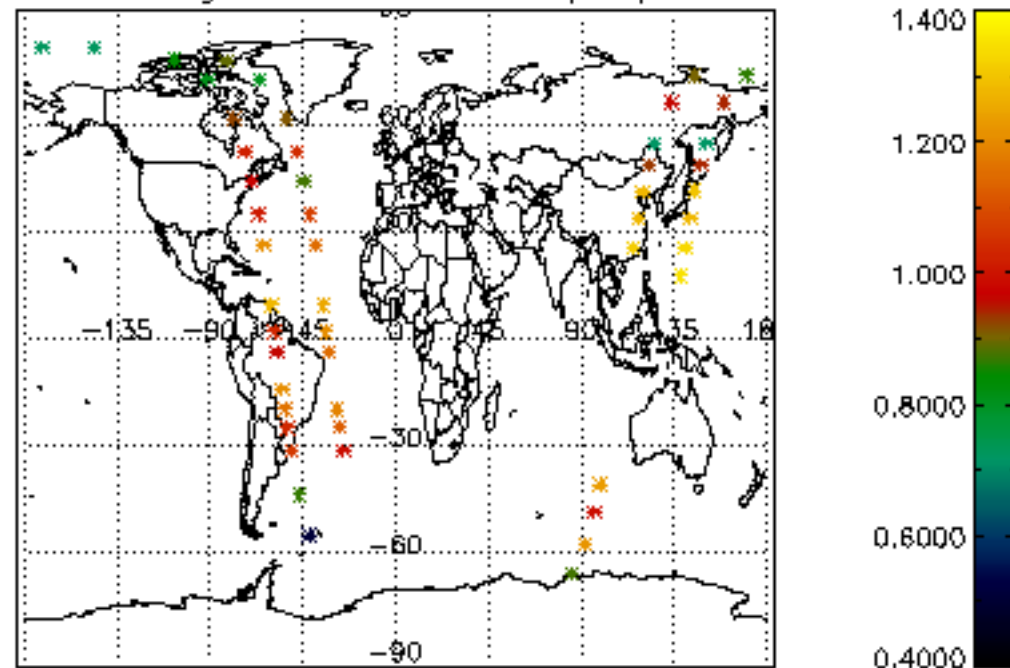




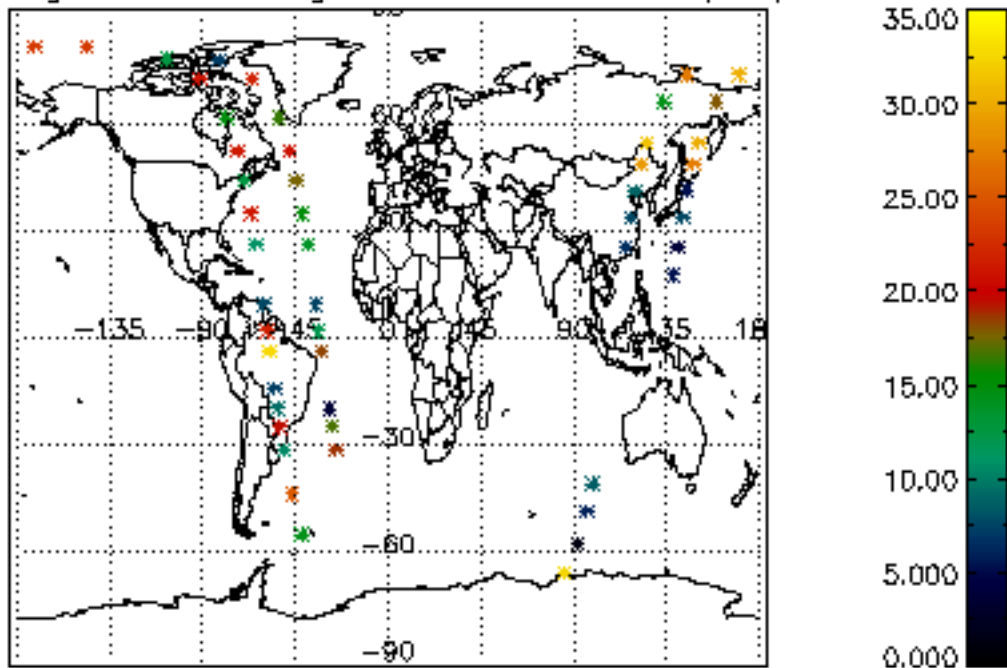
Percentage of cosmic ray hits per profile



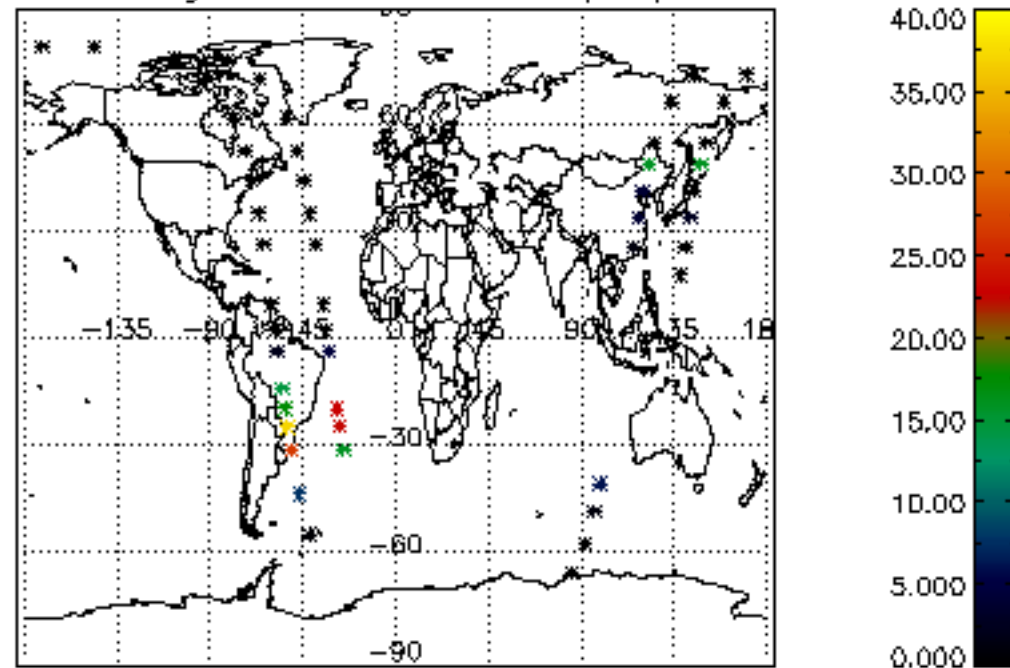
Percentage of datation errors per profile



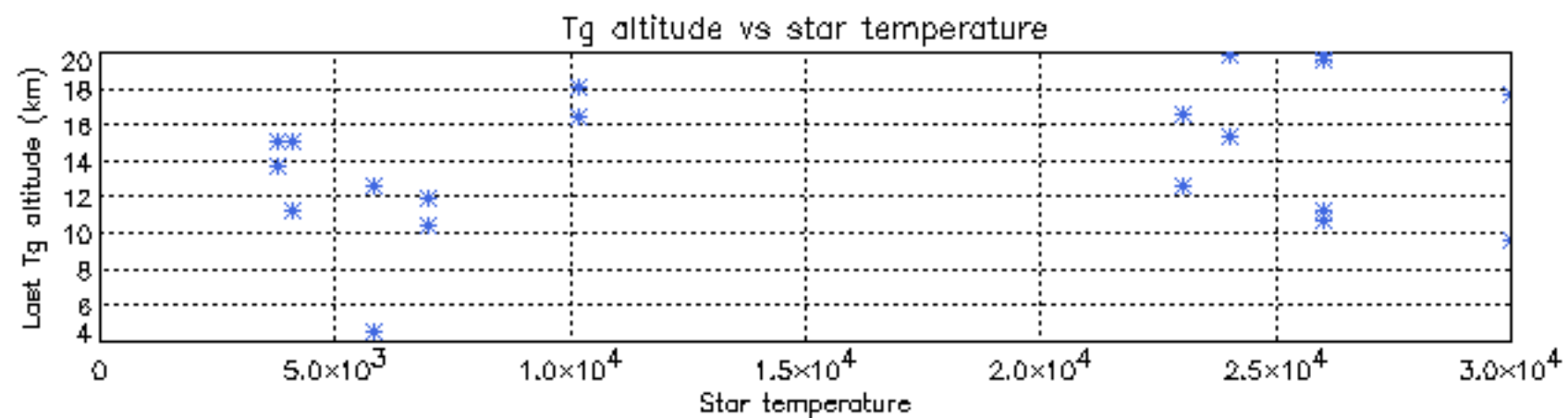
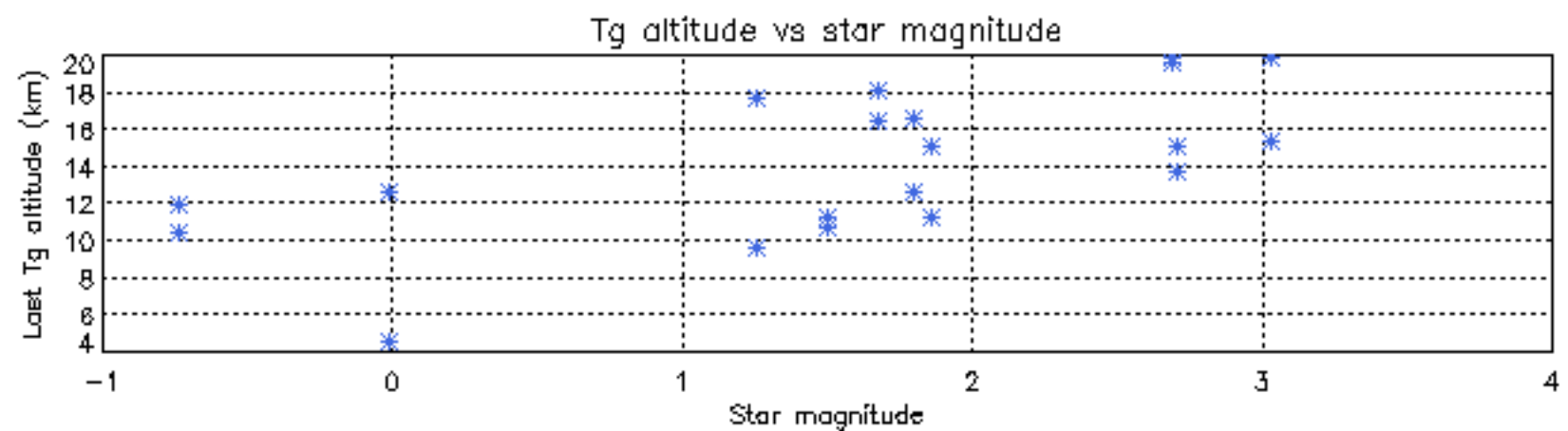
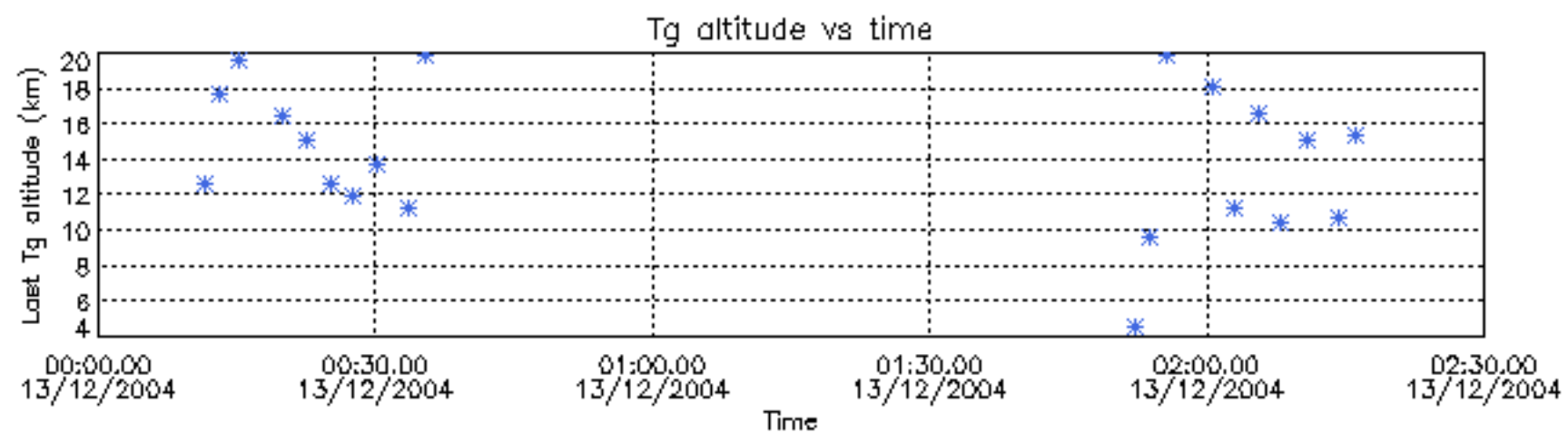
Percentage of star falling outside central band per profile



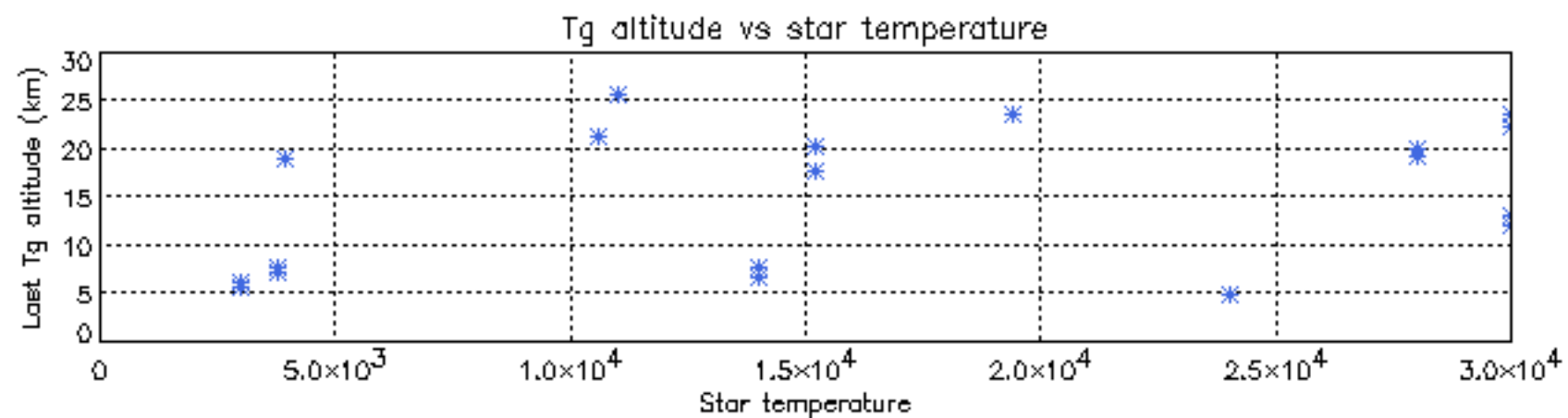
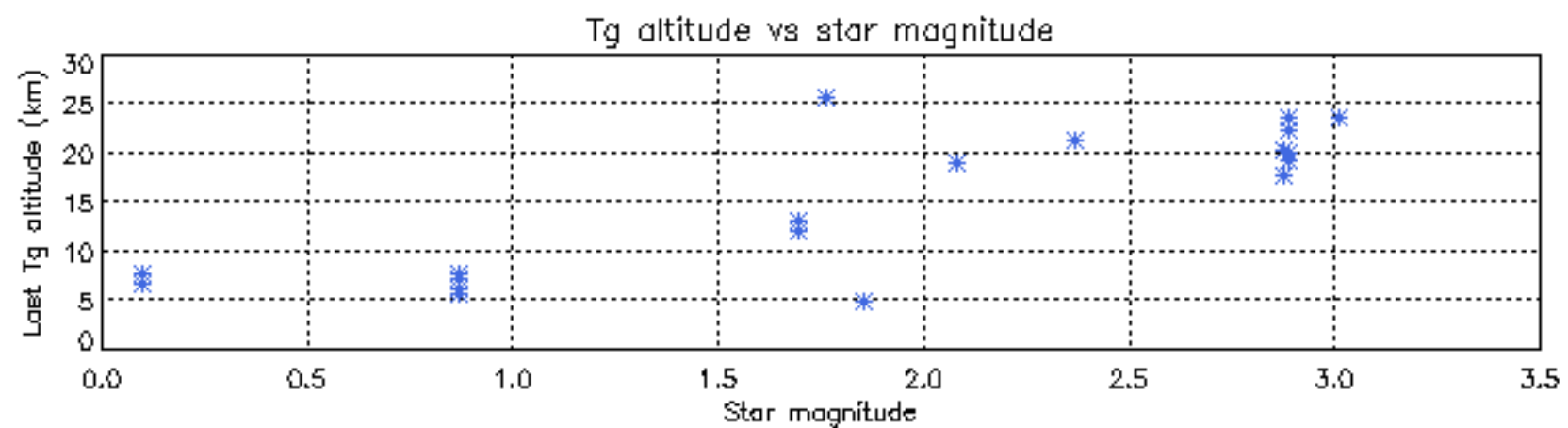
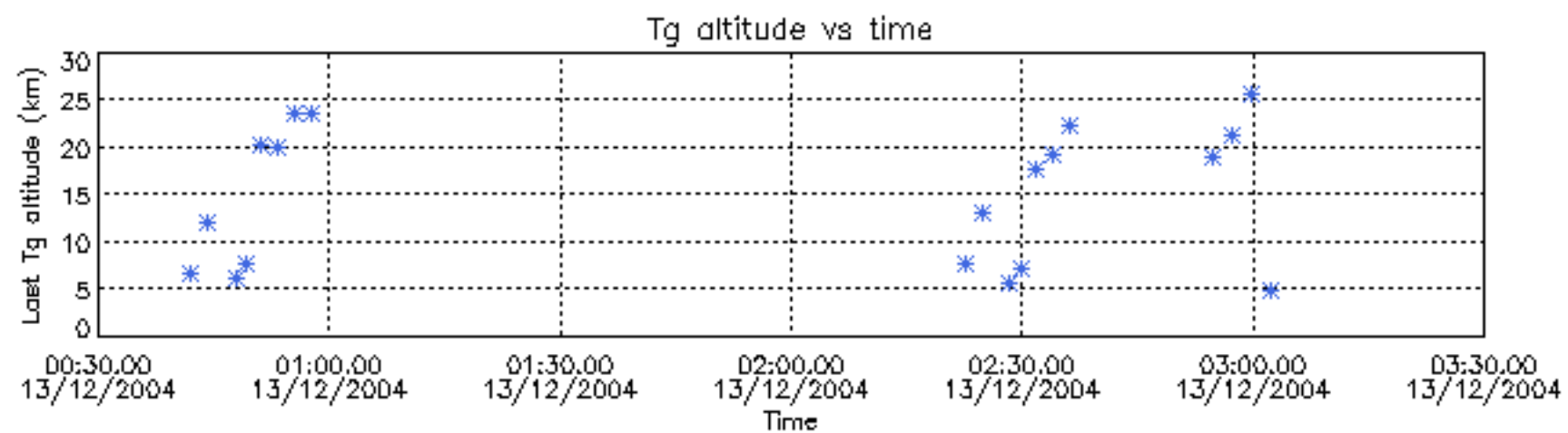
Percentage of saturation errors per profile



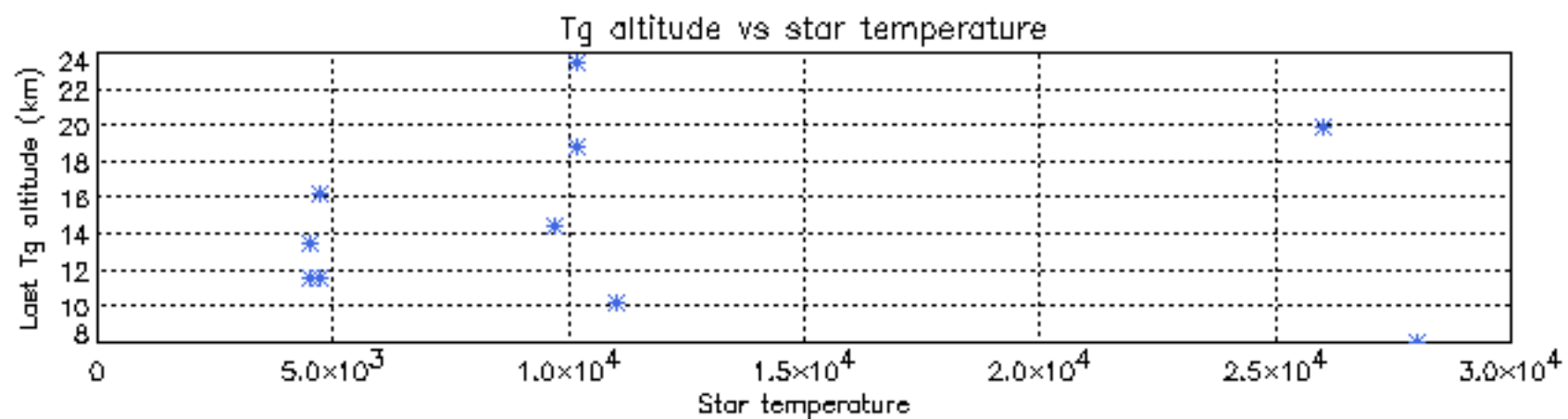
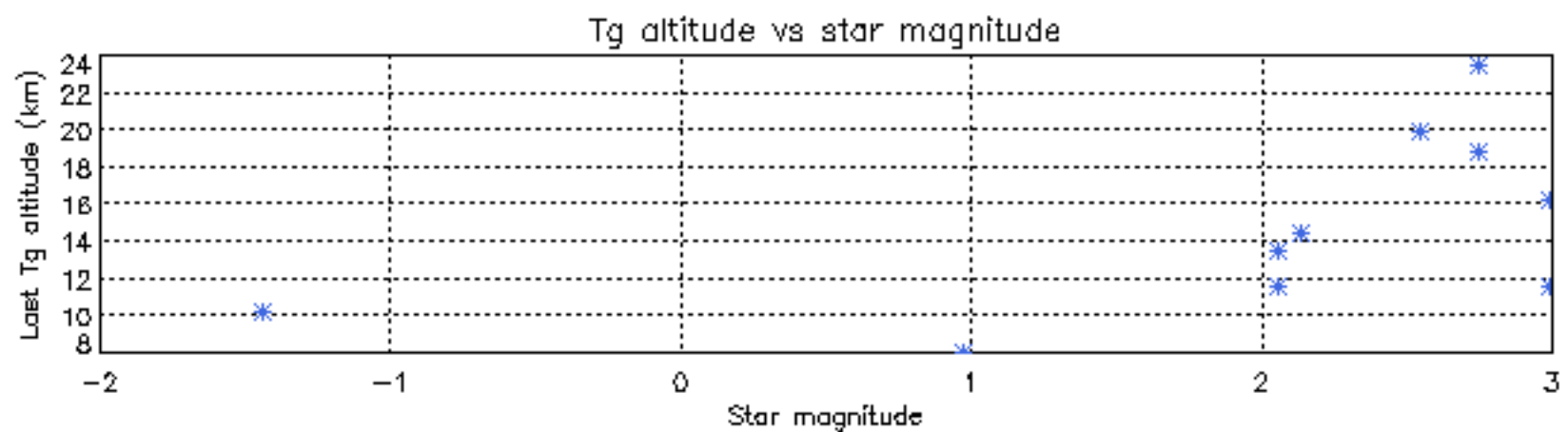
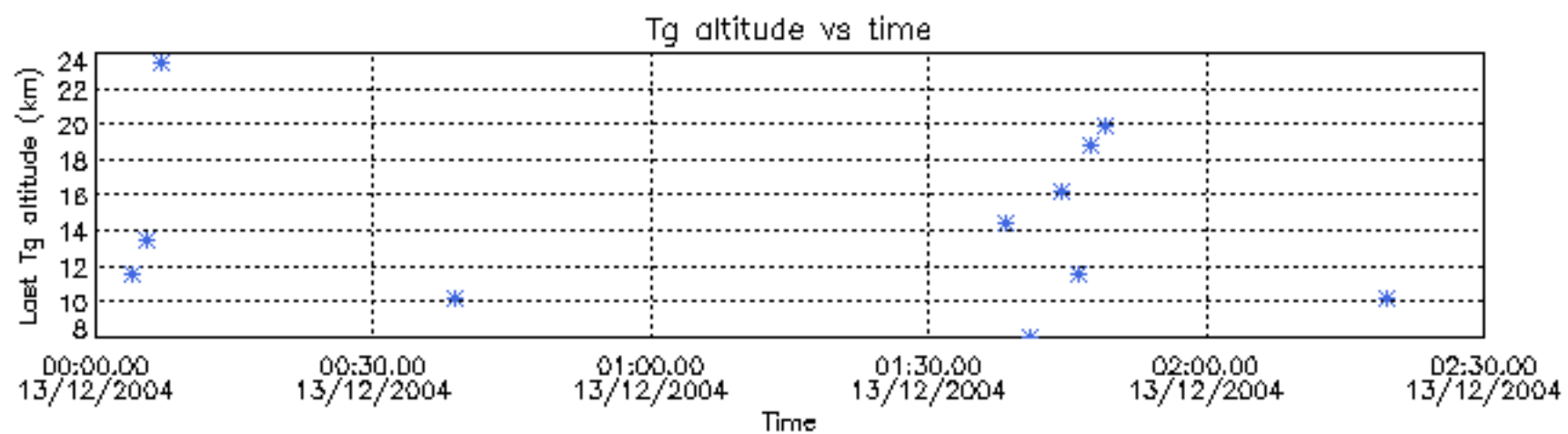
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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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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 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
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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
 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
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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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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
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
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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
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
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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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3;-2024.9; 01-DEC-2004 07:38:09; Bright; 40.0; 32; 77Eps UMA ; 1.76; 11000;occ; 80; 0;14403
4;-1899.0; 01-DEC-2004 07:40:14; Bright; 38.5; 39; 85Eta UMA ; 1.85; 24000;occ; 77; 0;14403
5;-1723.4; 01-DEC-2004 07:43:10; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;14403
6;-1543.2; 01-DEC-2004 07:46:10; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;14403
7;-1390.7; 01-DEC-2004 07:48:43; Bright; 35.5; 3; 16Alp Boo ;-0.05; 4250;occ; 71; 0;14403
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
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15; 1154.5; 01-DEC-2004 21:55:55; Dark ; 68.0; 23; 21Eps CMA ; 1.50; 26000;occ; 136; 0;14412
16; 1283.3; 01-DEC-2004 21:58:04; Dark ; 74.0; 179; 240mi2CMA ; 3.03; 24000;occ; 148; 0;14412
17; 1530.6; 01-DEC-2004 22:02:11; Dark ; 92.5; 1; 9Alp CMA ; -1.44; 11000;occ; 185; 0;14412
18; 1749.5; 01-DEC-2004 22:05:50; Dark ; 61.5; 7; 19Bet Ori ; 0.10; 14000;occ; 123; 0;14412
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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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
27; 2959.7; 01-DEC-2004 22:26:01; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 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
30; 3813.7; 01-DEC-2004 22:40:14; Bright; 46.5; 36; 50Alp UMA ; 1.80; 6300;occ; 93; 0;14412
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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38; 5128.3; 01-DEC-2004 23:02:09; Bright; 46.0; 121; 29Gam Vir ; 2.74; 7200;occ; 92; 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
6;	-73.2;	01-DEC-2004	23:16:03;	Dark	;	45.5;	10;	Bet Cen	;	0.61;	28000;occ;	91;	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
15;	1285.1;	01-DEC-2004	23:38:42;	Dark	;	74.0;	179;	240mi2CMA	;	3.03;	24000;occ;	148;	0;	14413
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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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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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
14;	-2220.7;	01-DEC-2004	15:57:52;	Bright;	;	41.0;	36;	50Alp UMA	;	1.80;	6300;occ;	82;	0;	14408
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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19;	-1541.8;	01-DEC-2004	16:09:11;	Bright;	;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	14408
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