

GOMOS Daily Report 02-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	04DEC2004 05:05:21

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (02DEC2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (03DEC2004 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)

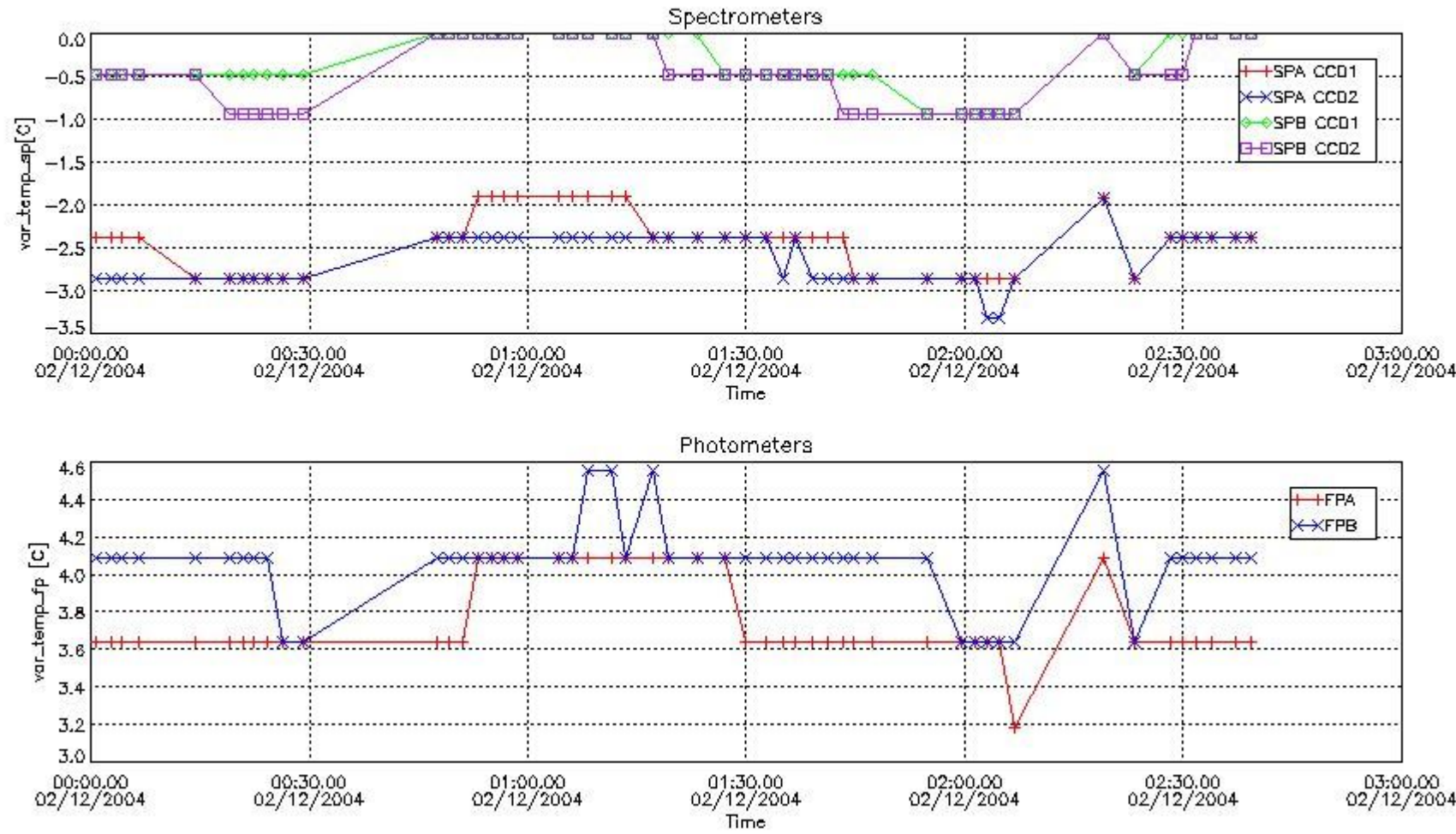
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20041202_000039_000000382032_00331_14413_0021.N1	02-DEC-2004 00:00:39	Bright	38.000	79	26Bet Per	2.3100	13100.	76	14413	No
2	GOM_TRA_1PNPDE20041202_000248_000000392032_00331_14413_0022.N1	02-DEC-2004 00:02:48	Bright	38.500	175	39Del Per	3.0100	19400.	77	14413	No
3	GOM_TRA_1PNPDE20041202_000412_000000372032_00331_14413_0023.N1	02-DEC-2004 00:04:12	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	14413	No
4	GOM_TRA_1PNPDE20041202_000636_000000382032_00331_14413_0024.N1	02-DEC-2004 00:06:36	Bright	38.000	110	37Del Cas	2.6780	8900.0	76	14413	No
5	GOM_TRA_1PNPDE20041202_001416_000000372032_00331_14413_0025.N1	02-DEC-2004 00:14:16	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	14413	No
6	GOM_TRA_1PNPDE20041202_001857_000000402032_00331_14413_0026.N1	02-DEC-2004 00:18:57	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	14413	No
7	GOM_TRA_1PNPDE20041202_002050_000000462032_00331_14413_0027.N1	02-DEC-2004 00:20:50	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	14413	No
8	GOM_TRA_1PNPDE20041202_002226_000000472032_00331_14413_0028.N1	02-DEC-2004 00:22:26	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	14413	No
9	GOM_TRA_1PNPDE20041202_002407_000000422032_00331_14413_0029.N1	02-DEC-2004 00:24:07	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	14413	No
10	GOM_TRA_1PNPDE20041202_002615_000000402032_00331_14413_0030.N1	02-DEC-2004 00:26:15	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	14413	No
11	GOM_TRA_1PNPDE20041202_002911_000000372032_00331_14413_0031.N1	02-DEC-2004 00:29:11	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	14413	No
12	GOM_TRA_1PNPDE20041202_004733_000000502032_00331_14413_0000.N1	02-DEC-2004 00:47:33	Twilight	49.500	163	7Del Crv	2.9450	11000.	99	14413	No
13	GOM_TRA_1PNPDE20041202_004910_000000492032_00331_14413_0001.N1	02-DEC-2004 00:49:10	Twilight	49.000	106	9Bet Crv	2.6480	5600.0	98	14413	No
14	GOM_TRA_1PNPDE20041202_005104_000000412032_00331_14413_0002.N1	02-DEC-2004 00:51:04	Twilight	41.000	123	1ot Cen	2.7500	10200.	82	14413	No
15	GOM_TRA_1PNPDE20041202_005312_000000392032_00331_14413_0003.N1	02-DEC-2004 00:53:12	Twilight	39.000	95	Zet Cen	2.5450	26000.	78	14413	No
16	GOM_TRA_1PNPDE20041202_005502_000000402032_00331_14413_0004.N1	02-DEC-2004 00:55:02	Dark	39.500	77	Eps Cen	2.3030	28000.	79	14413	No
17	GOM_TRA_1PNPDE20041202_005639_000000492032_00331_14413_0005.N1	02-DEC-2004 00:56:39	Dark	49.000	10	Bet Cen	0.61000	28000.	98	14413	No
18	GOM_TRA_1PNPDE20041202_005839_000000422032_00332_14414_0006.N1	02-DEC-2004 00:58:39	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	14414	No
19	GOM_TRA_1PNPDE20041202_010410_000000412032_00332_14414_0007.N1	02-DEC-2004 01:04:10	Dark	40.500	29	Bet Car	1.6720	10200.	81	14414	No
20	GOM_TRA_1PNPDE20041202_010608_000000472032_00332_14414_0008.N1	02-DEC-2004 01:06:08	Dark	47.000	41	Eps Car	1.8600	4100.0	94	14414	No
21	GOM_TRA_1PNPDE20041202_010812_000000552032_00332_14414_0009.N1	02-DEC-2004 01:08:12	Dark	54.500	34	Gam2Vel	1.7930	23000.	109	14414	No
22	GOM_TRA_1PNPDE20041202_011125_000000532032_00332_14414_0010.N1	02-DEC-2004 01:11:25	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	14414	No
23	GOM_TRA_1PNPDE20041202_011325_000000722032_00332_14414_0011.N1	02-DEC-2004 01:13:25	Dark	71.500	117	Pi Pup	2.7060	3800.0	143	14414	No
24	GOM_TRA_1PNPDE20041202_011710_000000692032_00332_14414_0012.N1	02-DEC-2004 01:17:10	Dark	68.500	23	21Eps CMa	1.5020	26000.	137	14414	No
25	GOM_TRA_1PNPDE20041202_011918_000000722032_00332_14414_0013.N1	02-DEC-2004 01:19:18	Dark	72.000	179	24Omi2CMa	3.0320	24000.	144	14414	No
26	GOM_TRA_1PNPDE20041202_012324_000000882032_00332_14414_0014.N1	02-DEC-2004 01:23:24	Twilight	88.000	1	9Alp CMa	-1.4400	11000.	176	14414	No
27	GOM_TRA_1PNPDE20041202_012701_000000582032_00332_14414_0015.N1	02-DEC-2004 01:27:01	Bright	57.500	7	19Bet Ori	0.10000	14000.	115	14414	No
28	GOM_TRA_1PNPDE20041202_012957_000000632032_00332_14414_0016.N1	02-DEC-2004 01:29:57	Bright	62.500	30	46Eps Ori	1.6940	30000.	125	14414	No
29	GOM_TRA_1PNPDE20041202_013237_000000642032_00332_14414_0017.N1	02-DEC-2004 01:32:37	Bright	63.500	27	24Gam Ori	1.6360	26000.	127	14414	No
30	GOM_TRA_1PNPDE20041202_013457_000000612032_00332_14414_0018.N1	02-DEC-2004 01:34:57	Bright	60.500	13	87Alp Tau	0.86700	3800.0	121	14414	No
31	GOM_TRA_1PNPDE20041202_013636_000000412032_00332_14414_0019.N1	02-DEC-2004 01:36:36	Bright	41.000	146	25Eta Tau	2.8730	15200.	82	14414	No
32	GOM_TRA_1PNPDE20041202_013857_000000412032_00332_14414_0020.N1	02-DEC-2004 01:38:57	Bright	41.000	150	44Zet Per	2.8900	28000.	82	14414	No
33	GOM_TRA_1PNPDE20041202_014114_000000412032_00332_14414_0021.N1	02-DEC-2004 01:41:14	Bright	40.500	79	26Bet Per	2.3100	13100.	81	14414	No
34	GOM_TRA_1PNPDE20041202_014322_000000412032_00332_14414_0022.N1	02-DEC-2004 01:43:22	Bright	40.500	175	39Del Per	3.0100	19400.	81	14414	No
35	GOM_TRA_1PNPDE20041202_014448_000000392032_00332_14414_0023.N1	02-DEC-2004 01:44:48	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	14414	No
36	GOM_TRA_1PNPDE20041202_014712_000000382032_00332_14414_0024.N1	02-DEC-2004 01:47:12	Bright	37.500	110	37Del Cas	2.6780	8900.0	75	14414	No
37	GOM_TRA_1PNPDE20041202_015452_000000382032_00332_14414_0025.N1	02-DEC-2004 01:54:52	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	14414	No
38	GOM_TRA_1PNPDE20041202_015933_000000382032_00332_14414_0026.N1	02-DEC-2004 01:59:33	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	14414	No
39	GOM_TRA_1PNPDE20041202_020126_000000462032_00332_14414_0027.N1	02-DEC-2004 02:01:26	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	14414	No
40	GOM_TRA_1PNPDE20041202_020301_000000472032_00332_14414_0028.N1	02-DEC-2004 02:03:01	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	14414	No
41	GOM_TRA_1PNPDE20041202_020443_000000432032_00332_14414_0029.N1	02-DEC-2004 02:04:43	Bright	42.500	32	77Eps UMa	1.7630	11000.	85	14414	No
42	GOM_TRA_1PNPDE20041202_020651_000000392032_00332_14414_0030.N1	02-DEC-2004 02:06:51	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	14414	No
43	GOM_TRA_1PNPDE20041202_021910_000000772032_00332_14414_0000.N1	02-DEC-2004 02:19:10	Bright	76.500	96	68Del Leo	2.5600	9300.0	153	14414	Yes
44	GOM_TRA_1PNPDE20041202_022322_000000462032_00332_14414_0001.N1	02-DEC-2004 02:23:22	Twilight	45.500	121	29Gam Vir	2.7400	7200.0	91	14414	No
45	GOM_TRA_1PNPDE20041202_022810_000000472032_00332_14414_0002.N1	02-DEC-2004 02:28:10	Twilight	47.000	163	7Del Crv	2.9450	11000.	94	14414	No
46	GOM_TRA_1PNPDE20041202_022947_000000462032_00332_14414_0003.N1	02-DEC-2004 02:29:47	Twilight	45.500	106	9Bet Crv	2.6480	5600.0	91	14414	No

47	GOM_TRA_1PNPDE20041202_023140_000000412032_00332_14414_0004.N1	02-DEC-2004 02:31:40	Twilight	40.500	123	Iot Cen	2.7500	10200.	81	14414	No
48	GOM_TRA_1PNPDE20041202_023349_000000392032_00332_14414_0005.N1	02-DEC-2004 02:33:49	Twilight	38.500	95	Zet Cen	2.5450	26000.	77	14414	No
49	GOM_TRA_1PNPDE20041202_023715_000000402032_00332_14414_0006.N1	02-DEC-2004 02:37:15	Dark	39.500	10	Bet Cen	0.61000	28000.	79	14414	No
50	GOM_TRA_1PNPDE20041202_023915_000000452032_00333_14415_0007.N1	02-DEC-2004 02:39:15	Dark	44.500	12	Alp1Cru	0.77500	30000.	89	14415	No

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



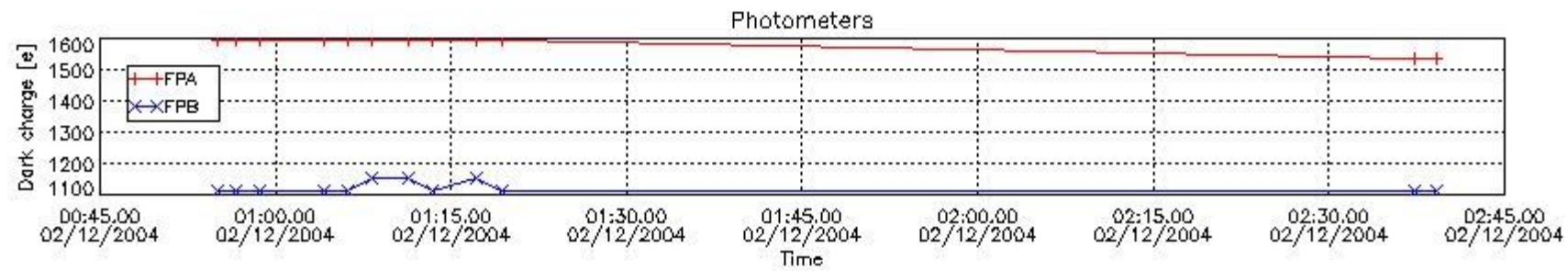
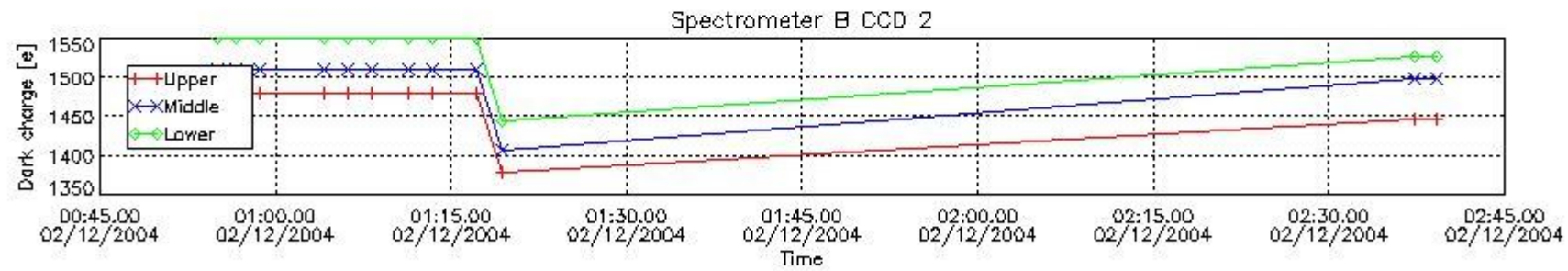
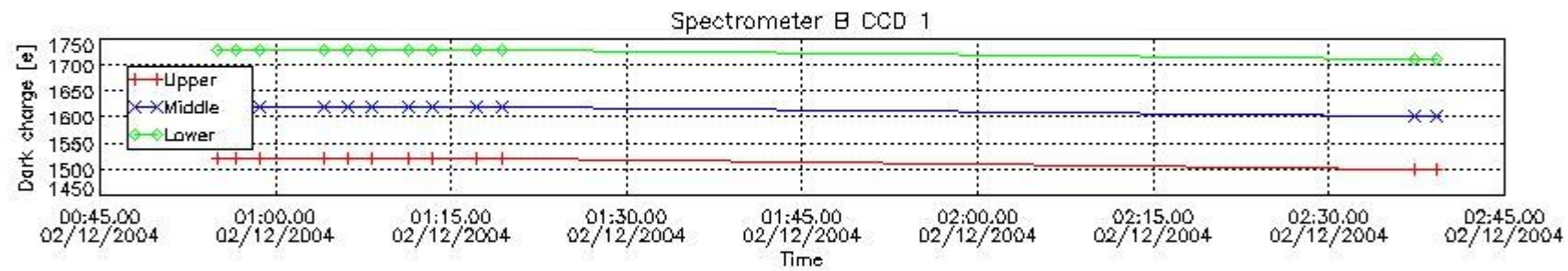
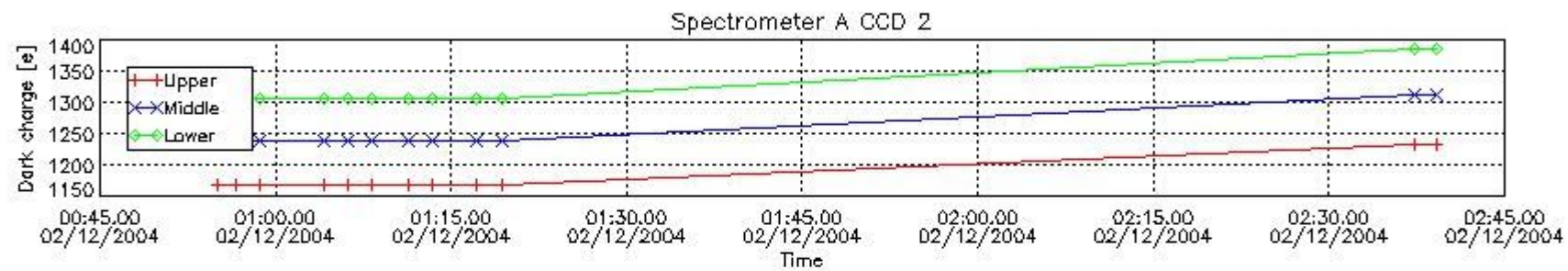
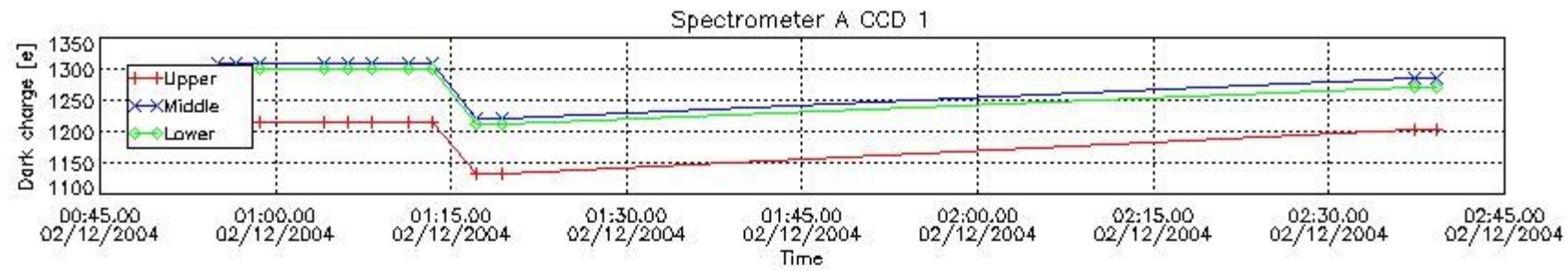
4. Overview of dark signal processing per product

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



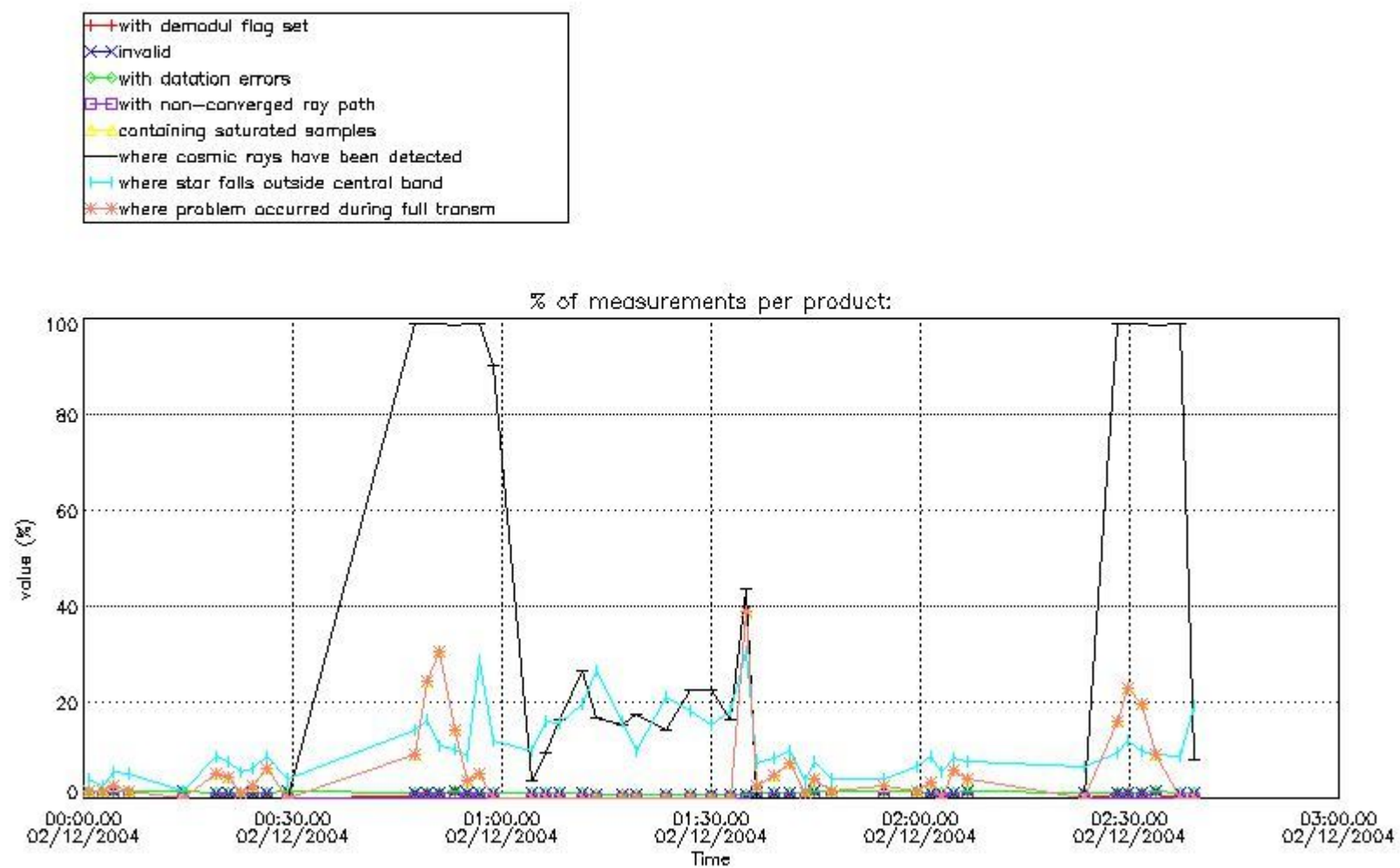
5. Demodulation flag and quality information monitoring

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.

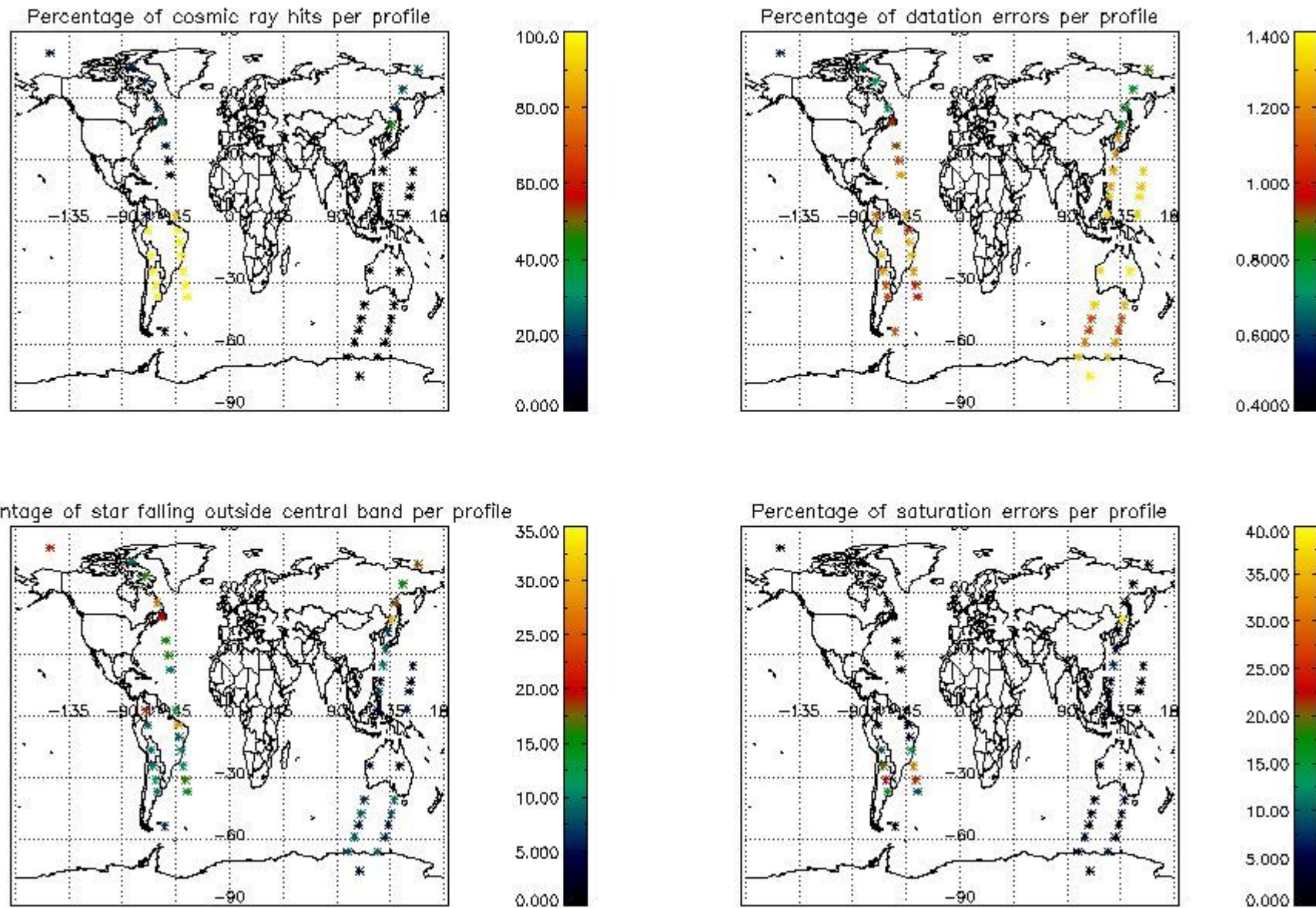
5.1 Percentage of products during reporting period with:

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)



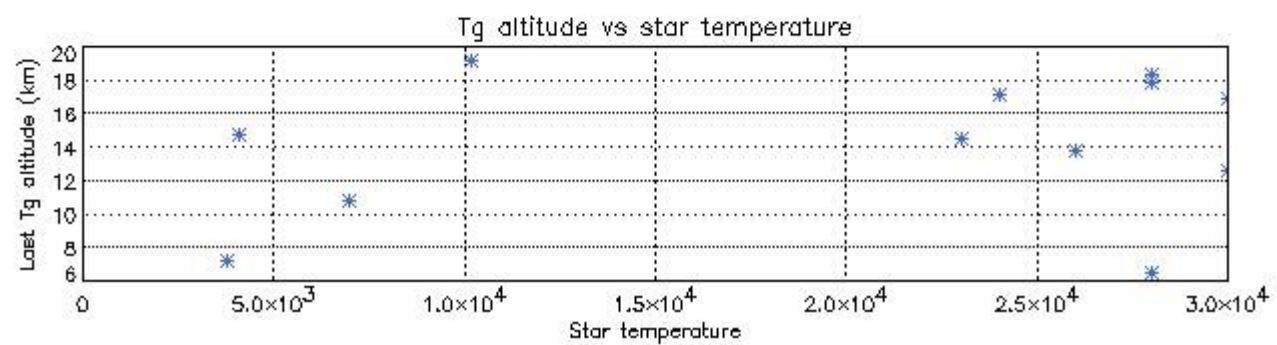
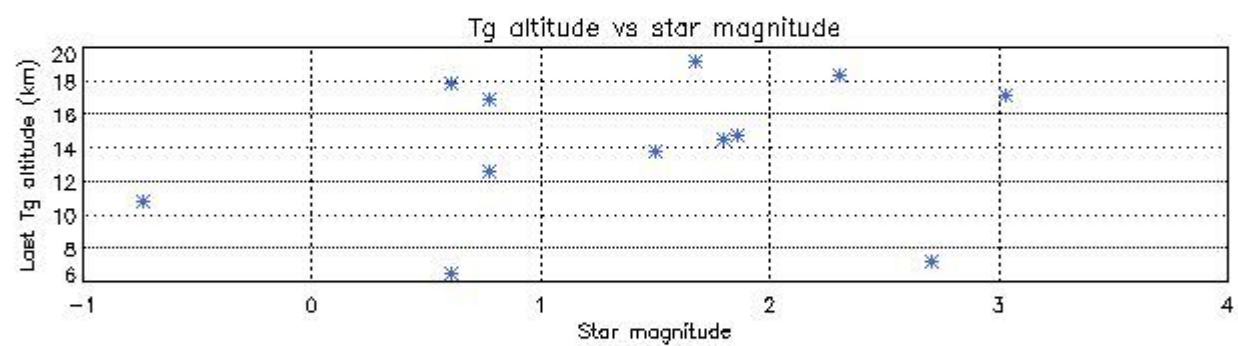
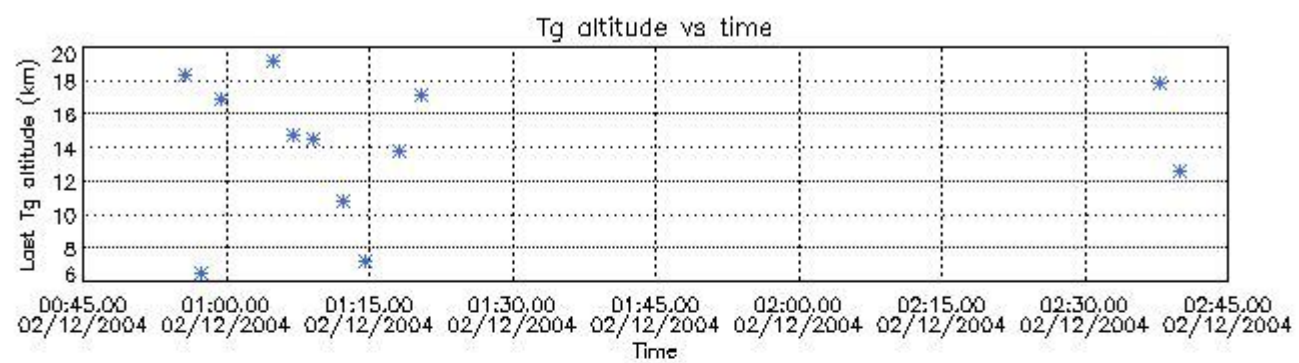
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.123	19.384	16.197
St. deviation:	4.1998	4.3179	2.7023
Maximum:	19.162	25.174	19.199
Minimum:	6.4535	6.2540	10.864
Number of data:	12.000	27.000	10.000

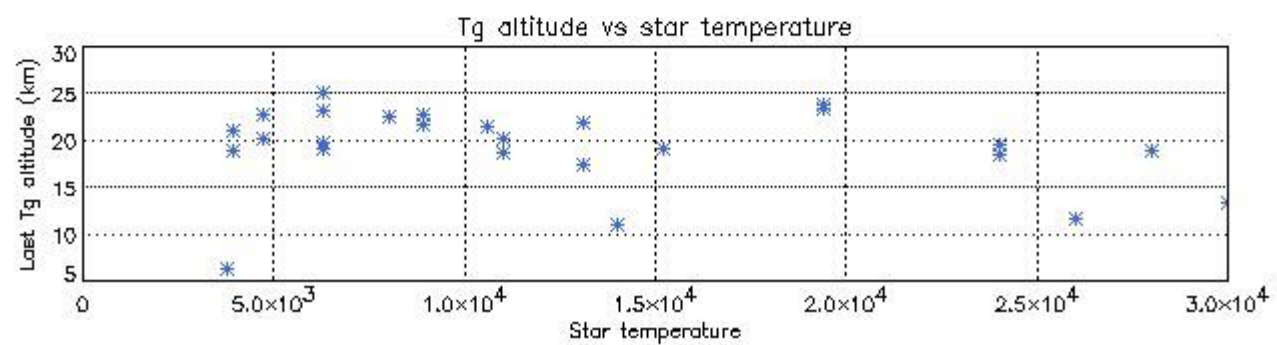
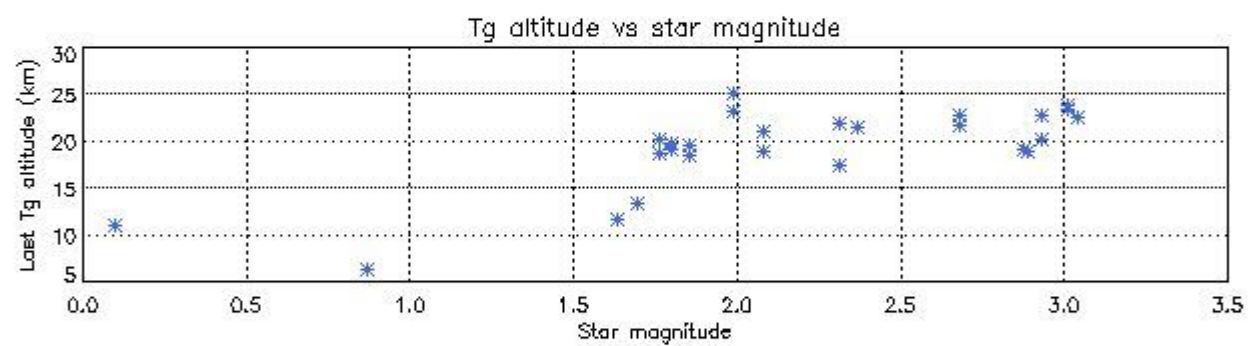
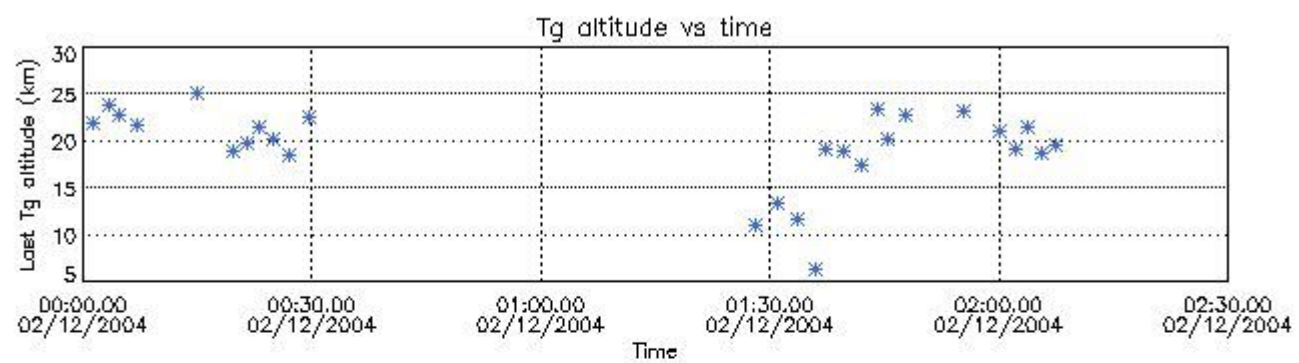
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



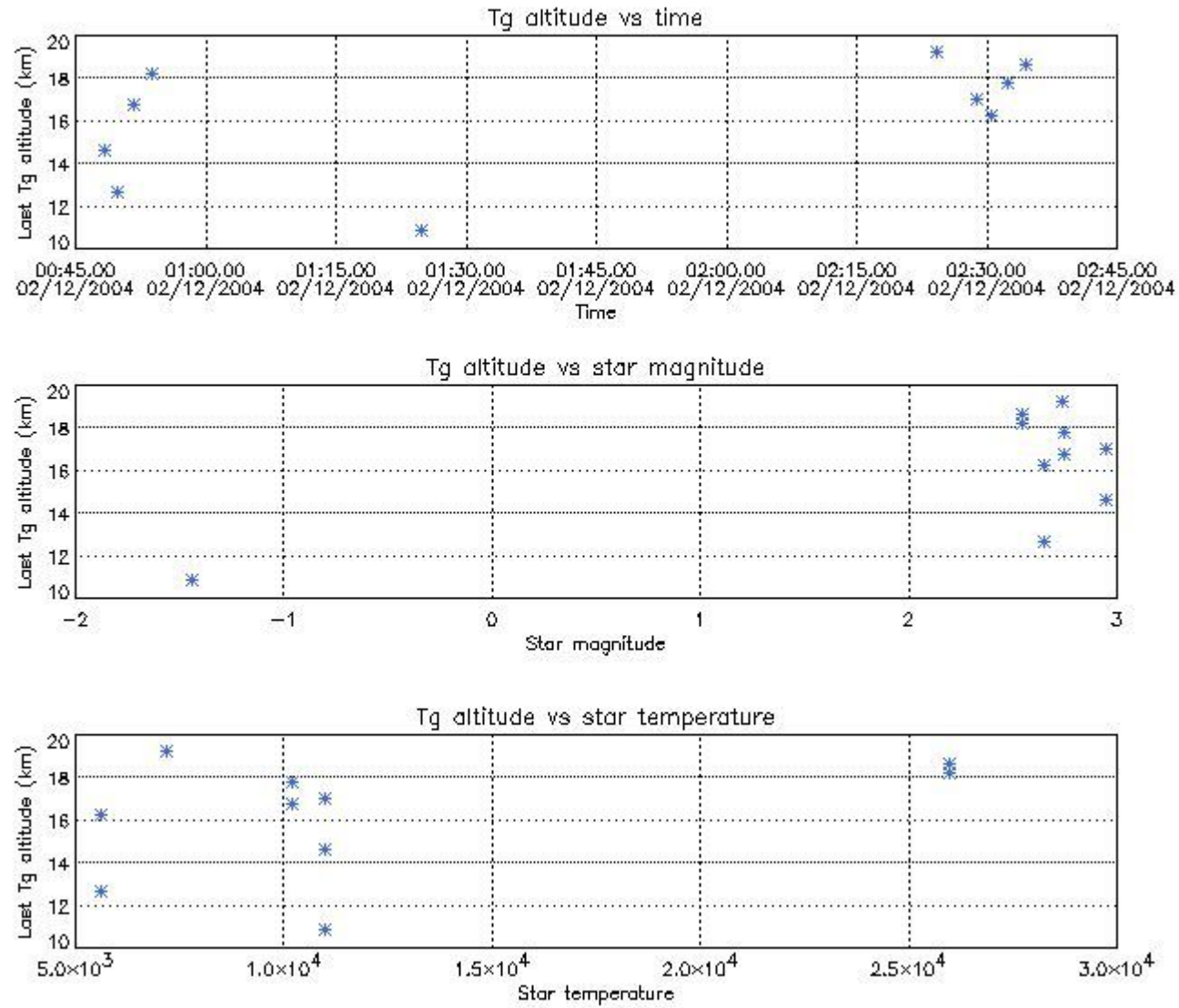
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



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

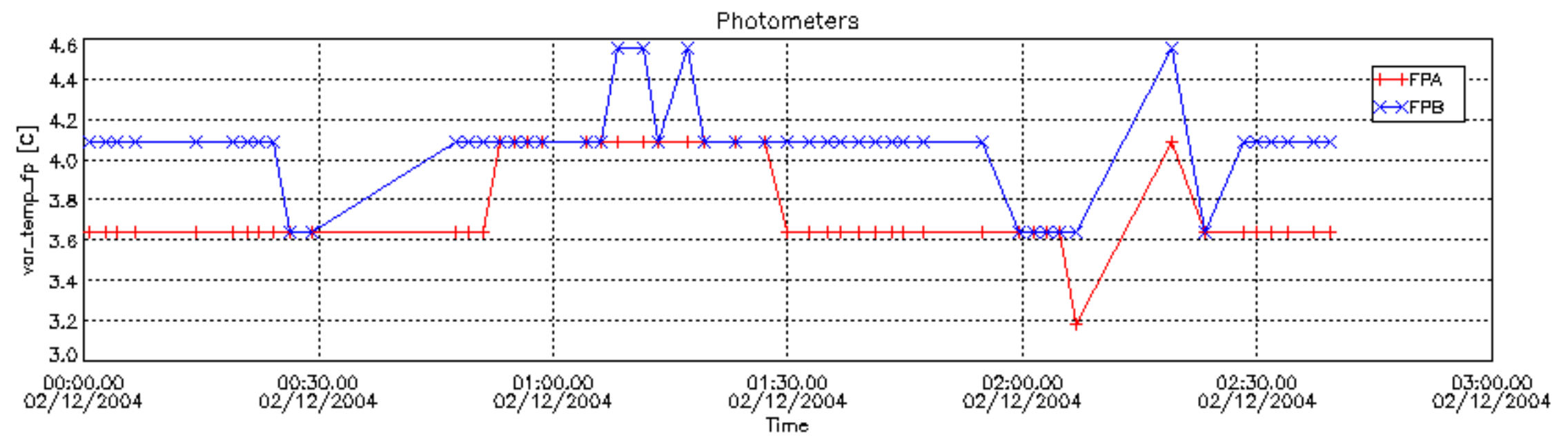
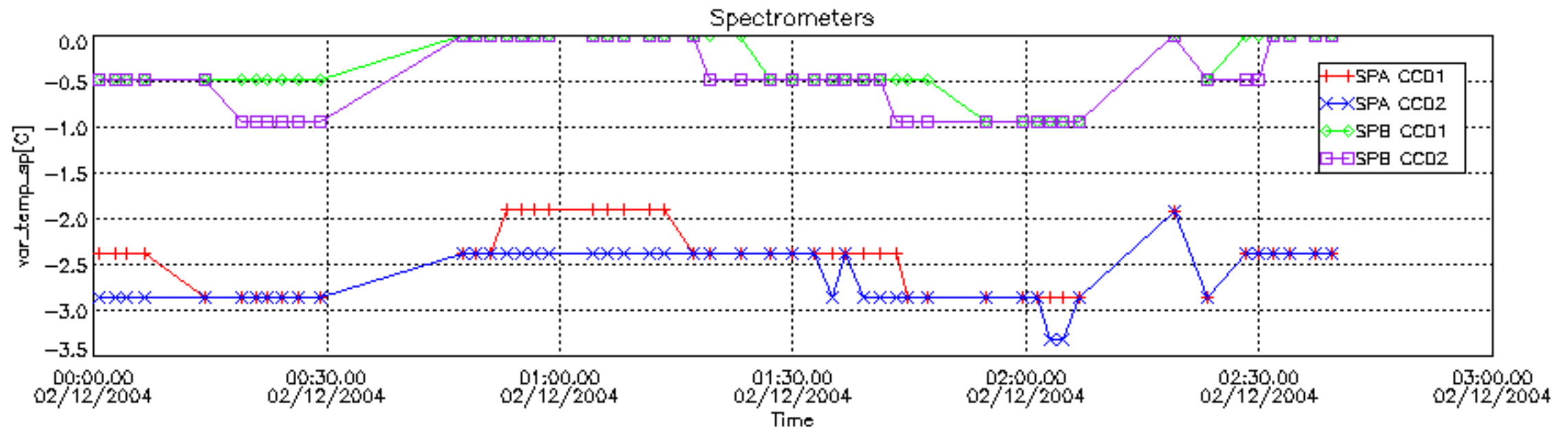
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

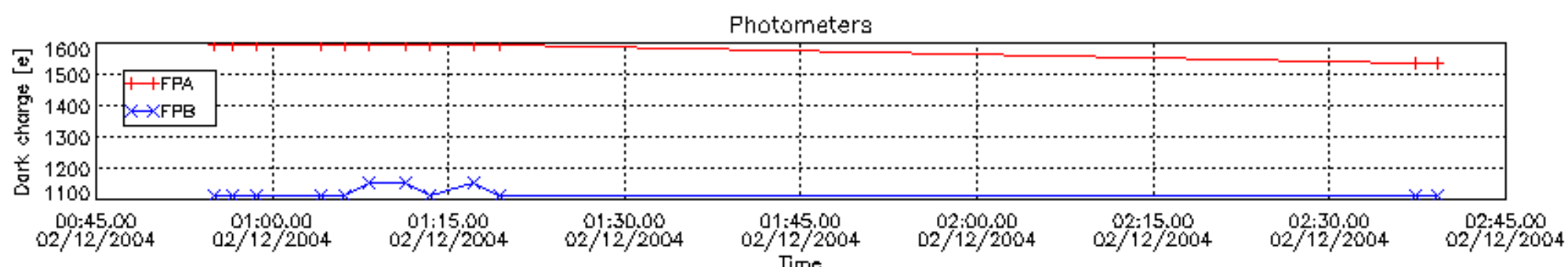
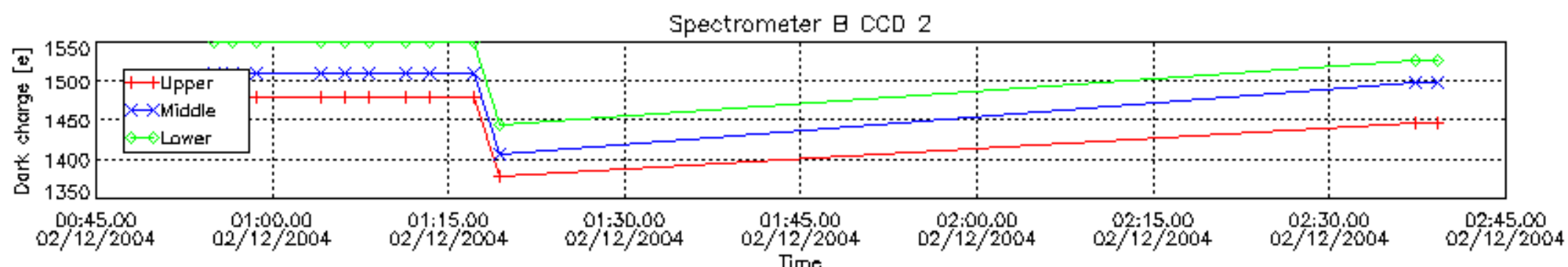
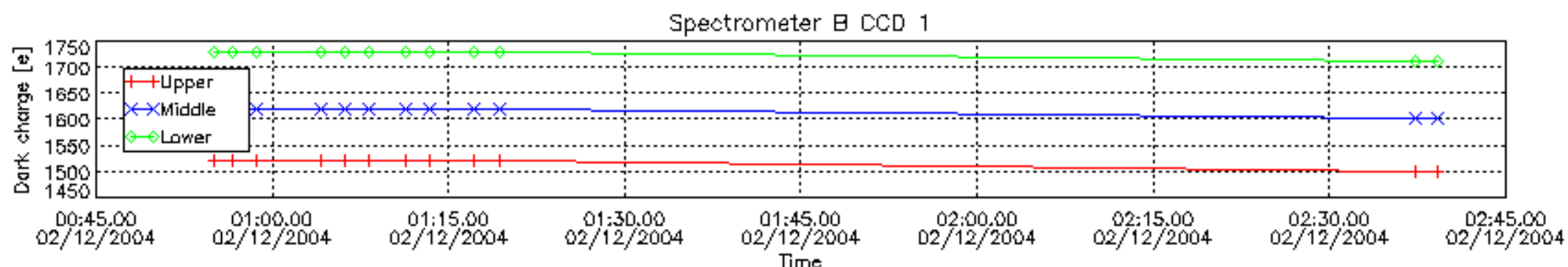
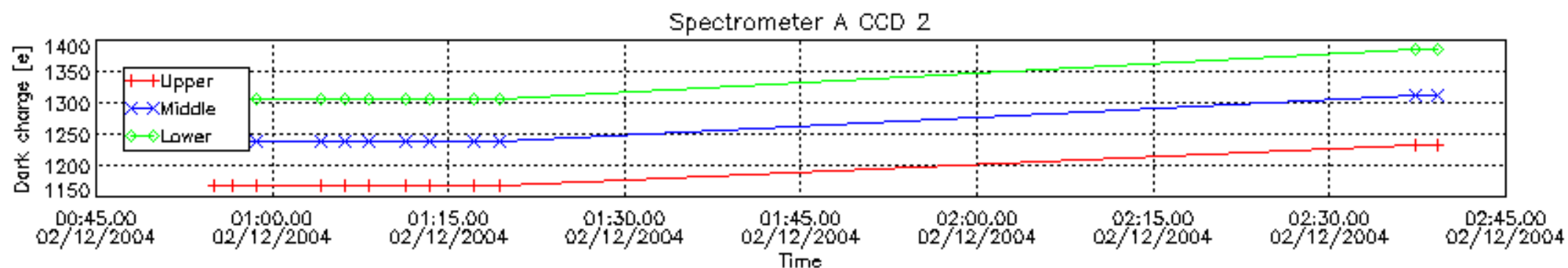
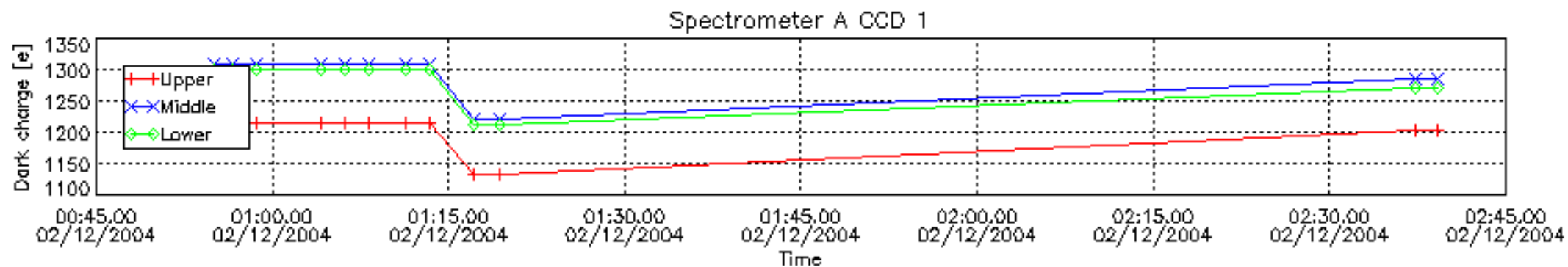
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.7	1447.3	1461.4	1446.9
St. deviation:	4.2582	5.8056	7.7228	9.2193
Maximum:	1504.0	1495.0	1520.0	1512.0
Minimum:	1449.0	1429.0	1431.0	1418.0
Number of data:	15400.	15400.	30450.	30450.

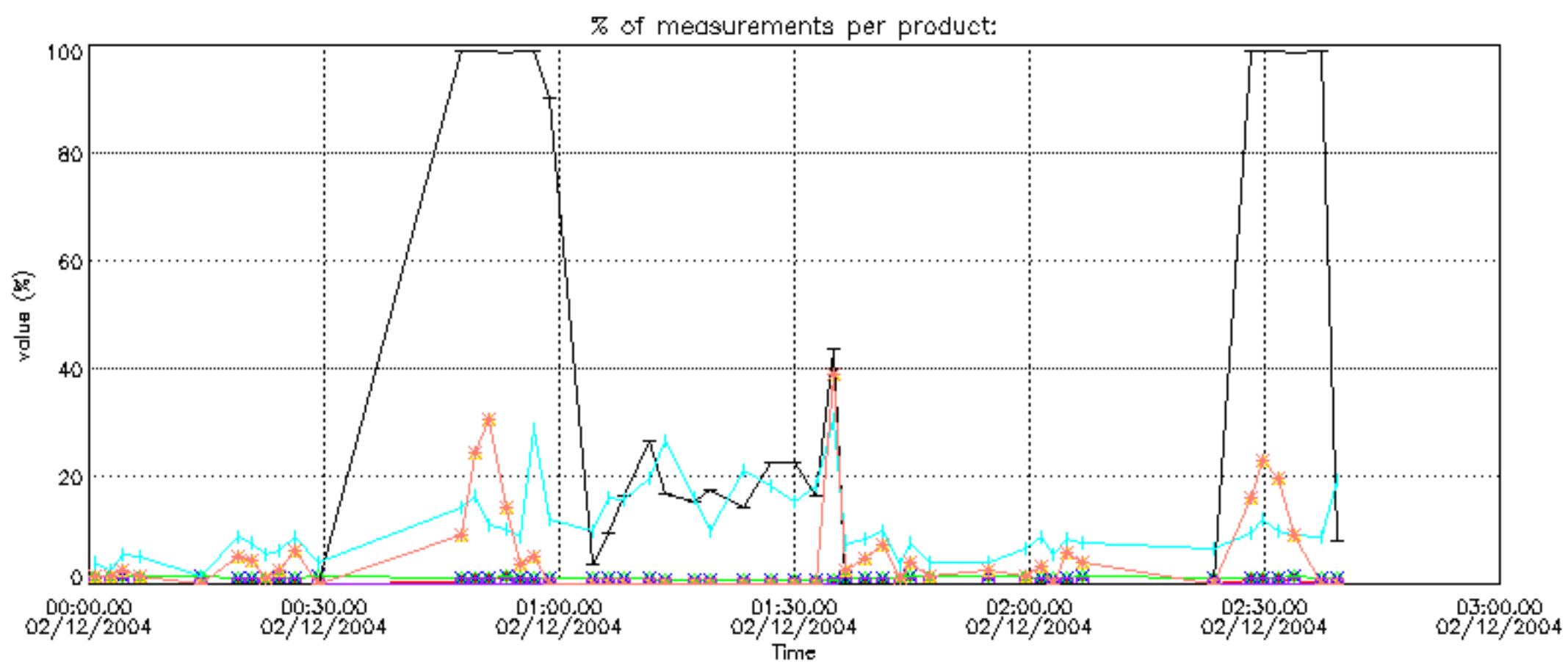
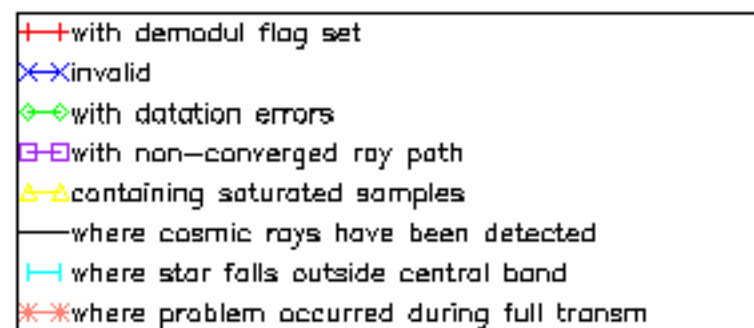
8. Auxiliary Data Files used for the production reported in section 2.2

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.

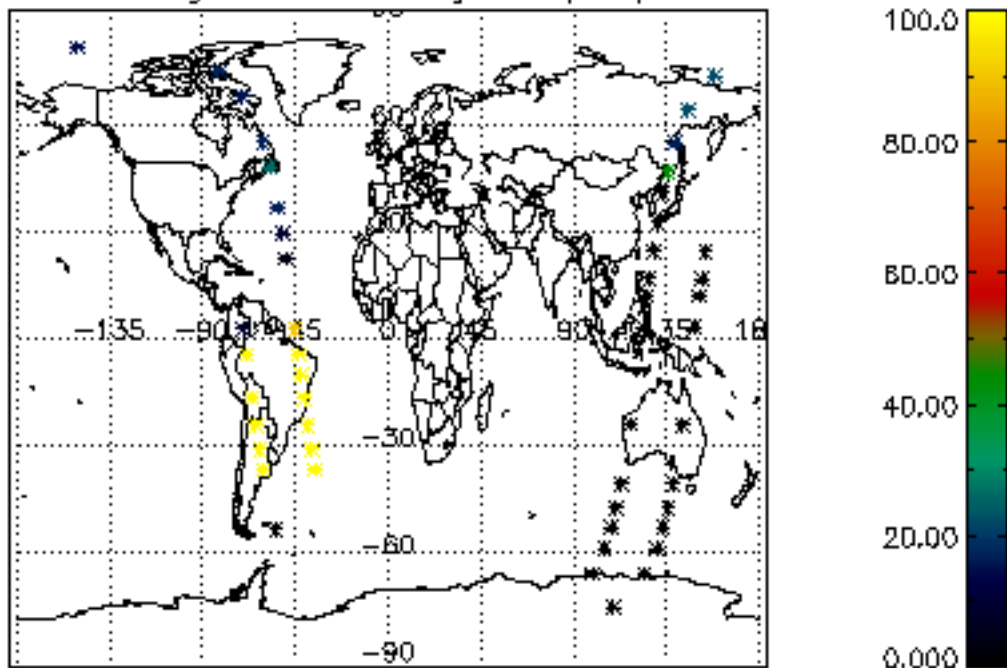
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	02-DEC-2004 00:00:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041129_135000_20041127_000000_20100101_000000	1	02-DEC-2004 00:00:39
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	02-DEC-2004 00:00:39
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-DEC-2004 00:00:39
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	02-DEC-2004 00:00:39
ECMWF_FILE	AUX_ECF_AXNECM20041201_061913_20041201_210000_20041202_090000	1	02-DEC-2004 00:00:39
OPTIONAL_ECMWF_FILE	NOT USED	1	02-DEC-2004 00:00:39
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041201_230826_20041201_195605_20041211_212217	1	02-DEC-2004 00:00:39



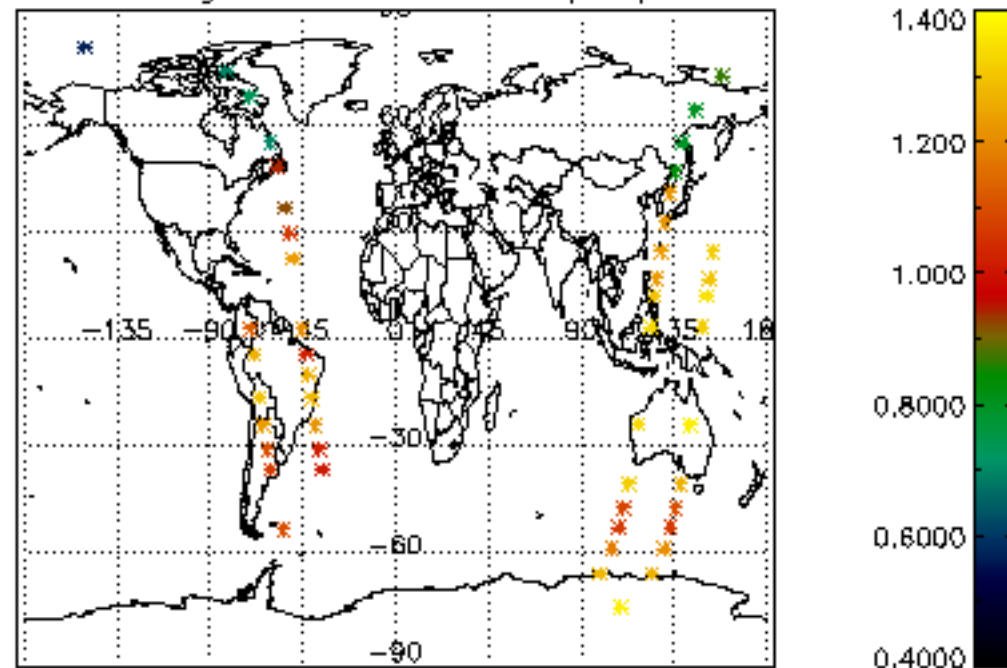




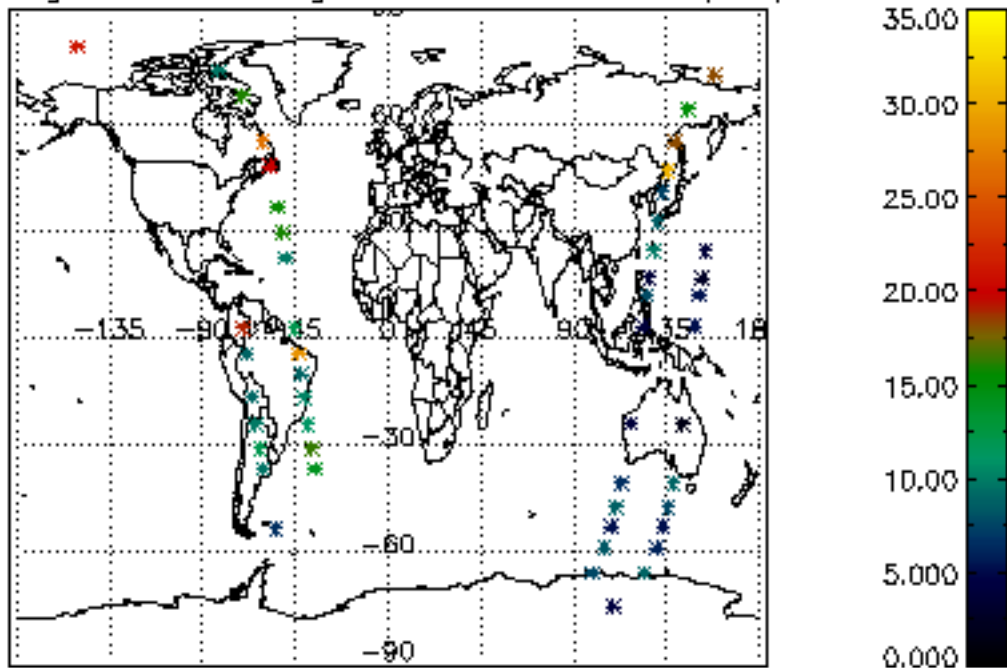
Percentage of cosmic ray hits per profile



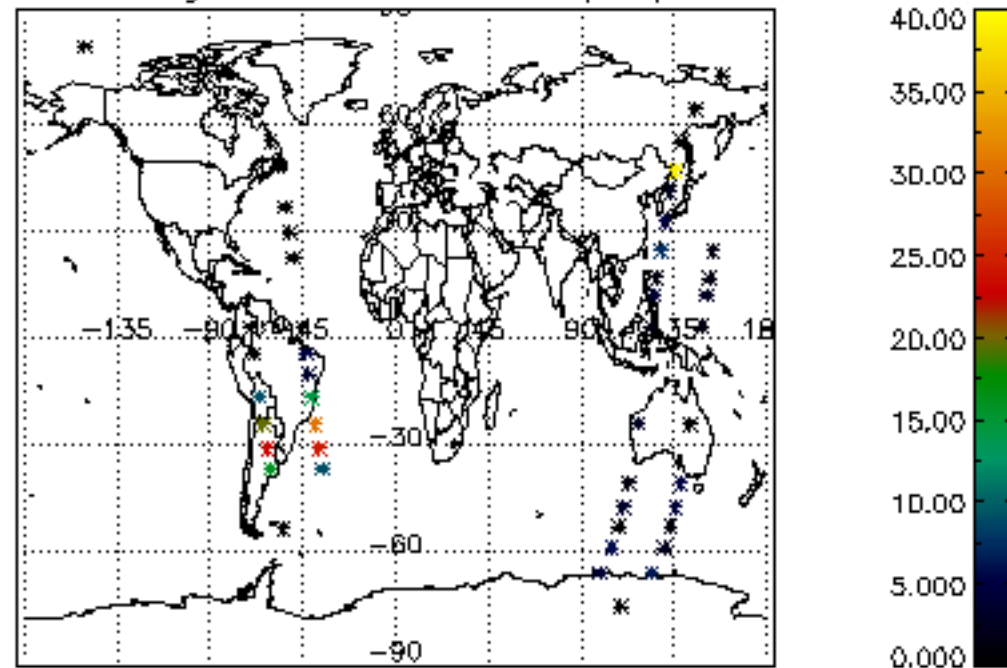
Percentage of datation errors per profile



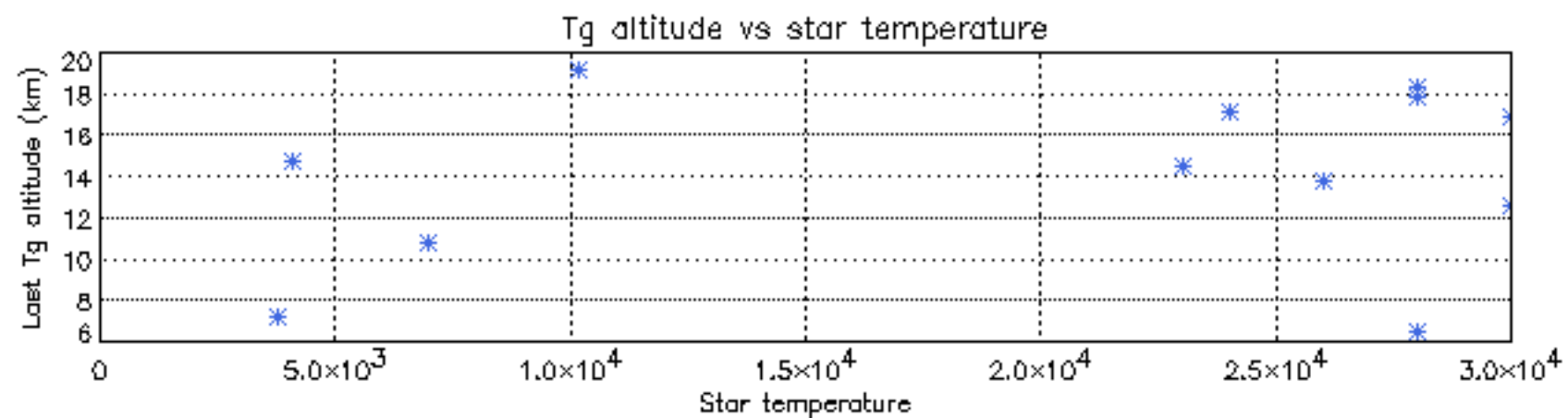
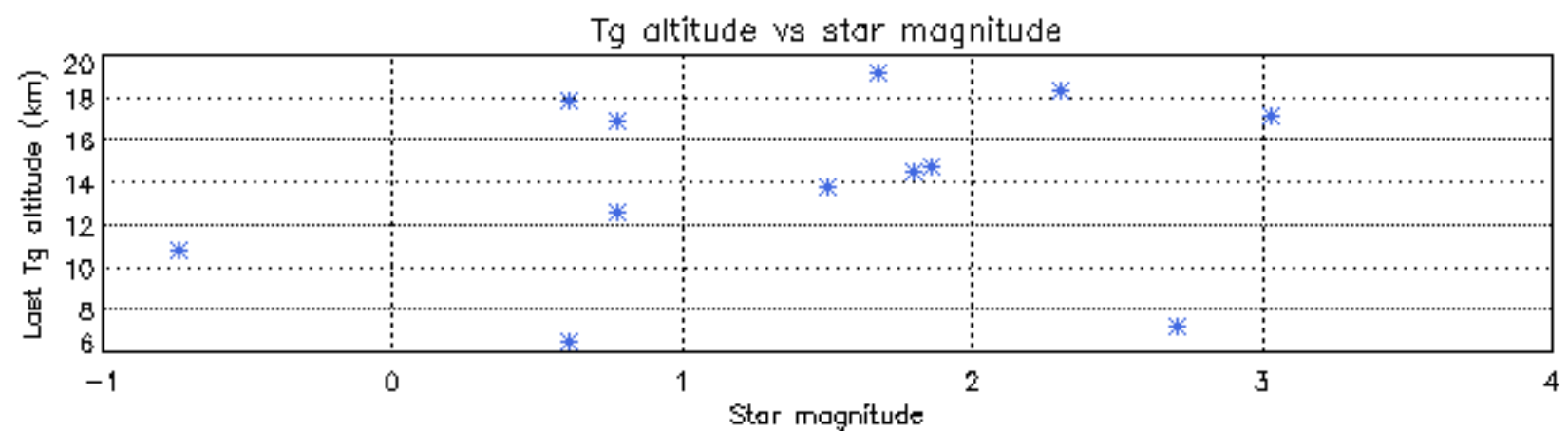
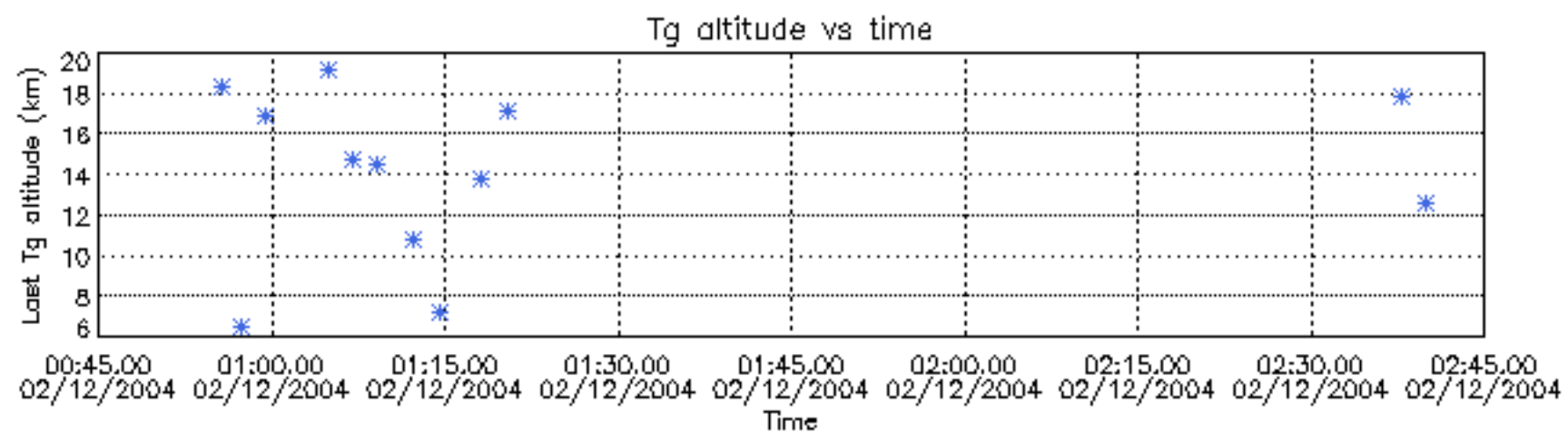
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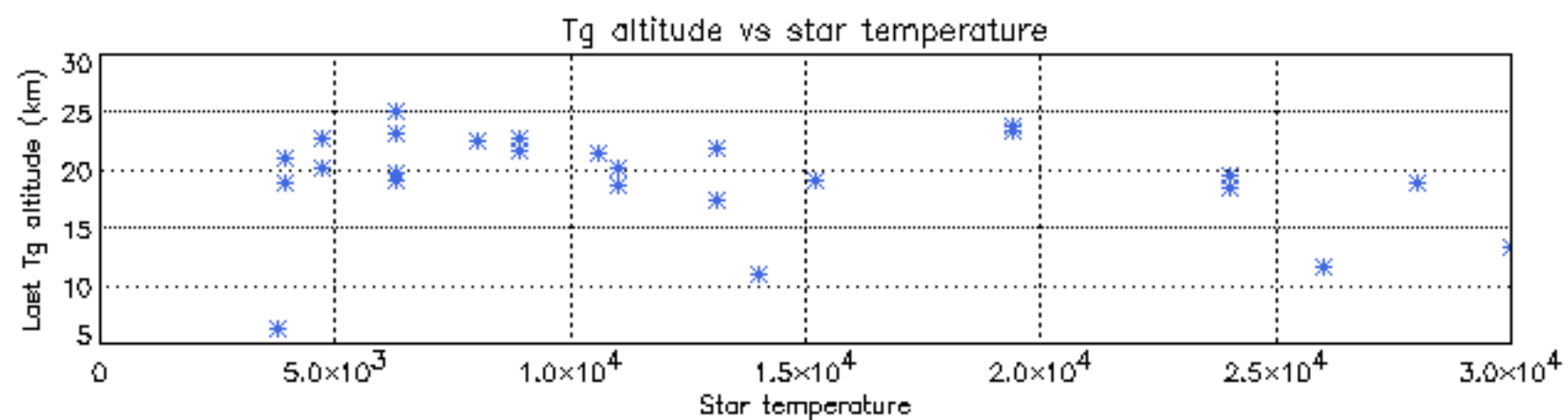
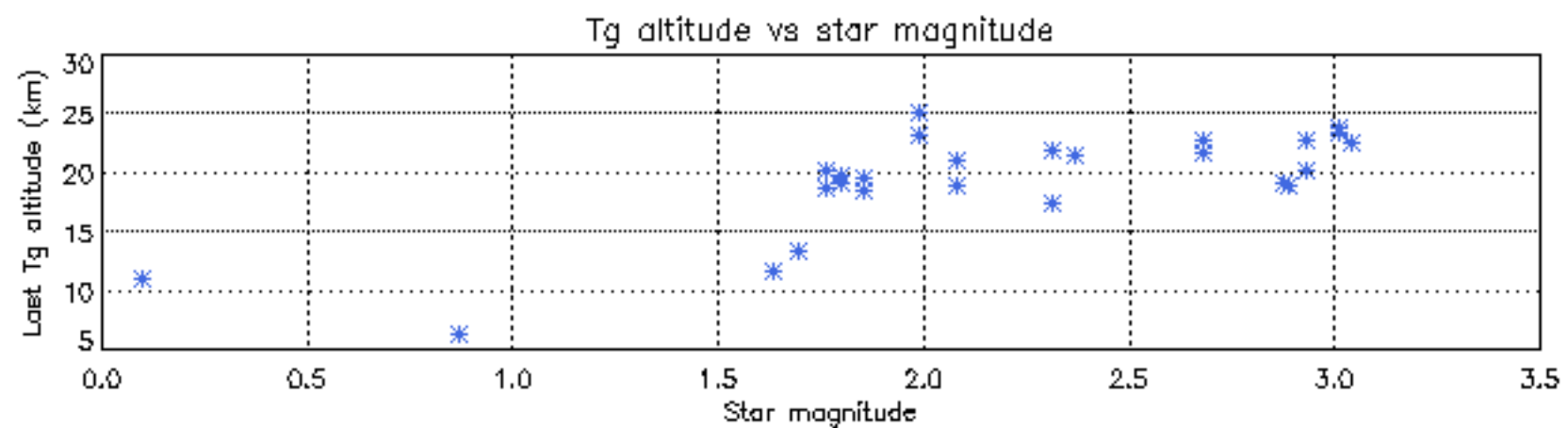
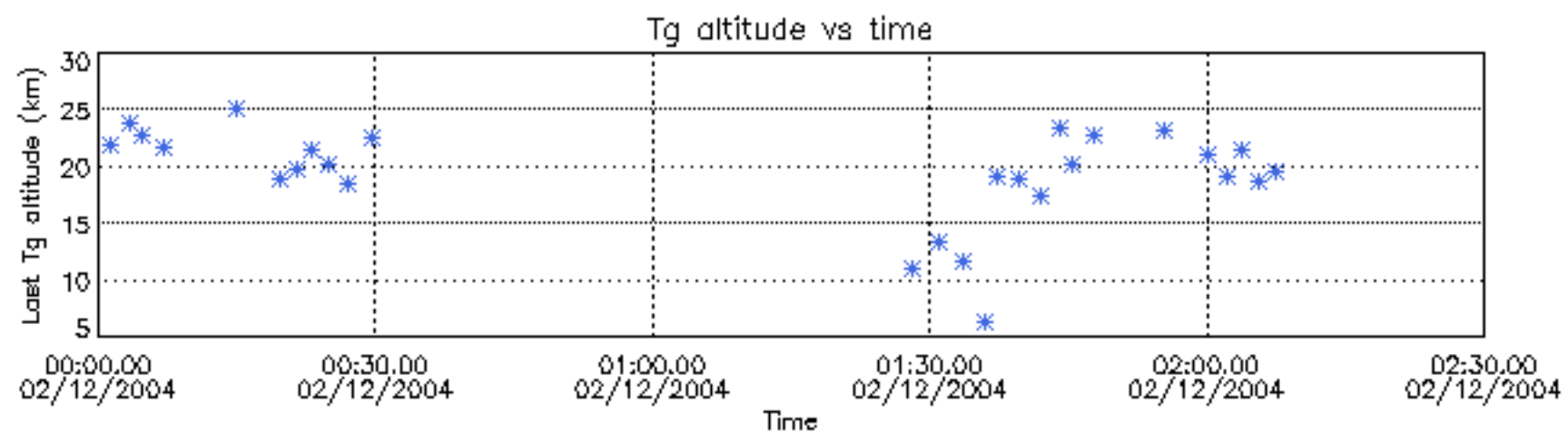
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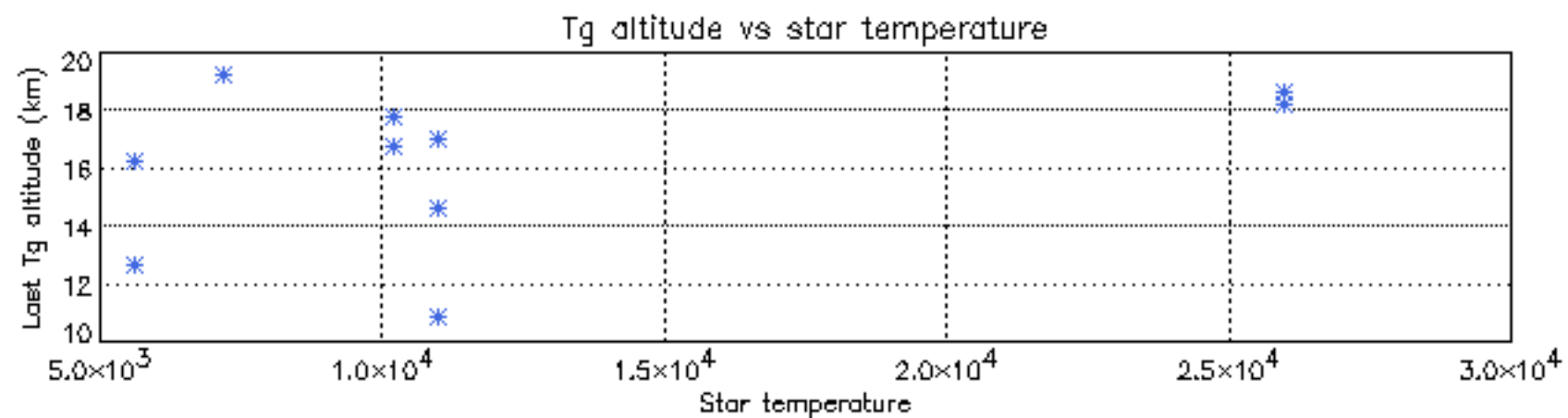
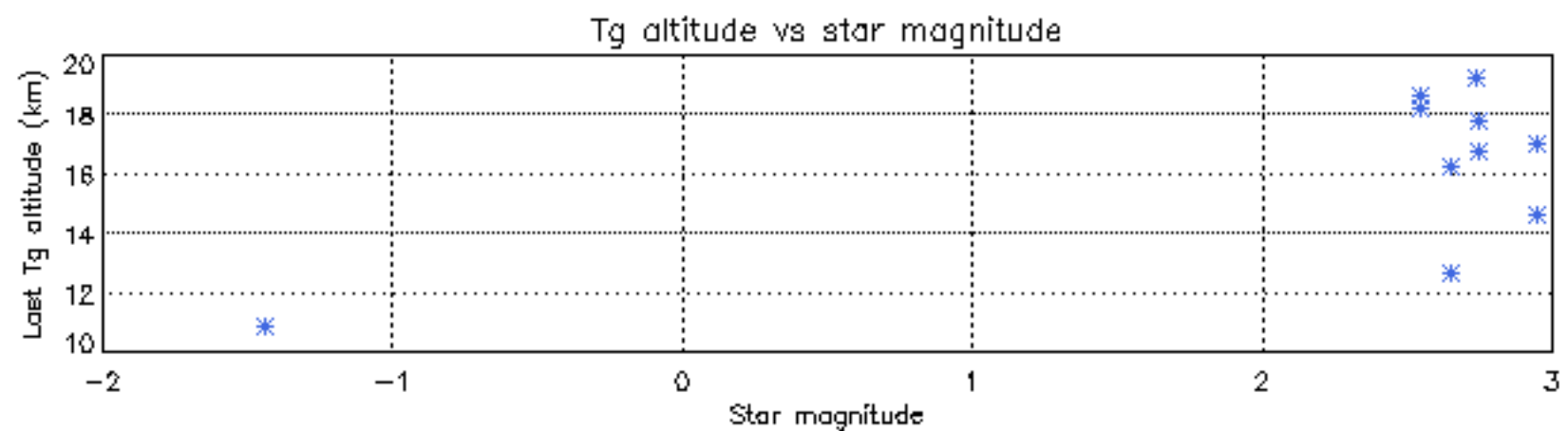
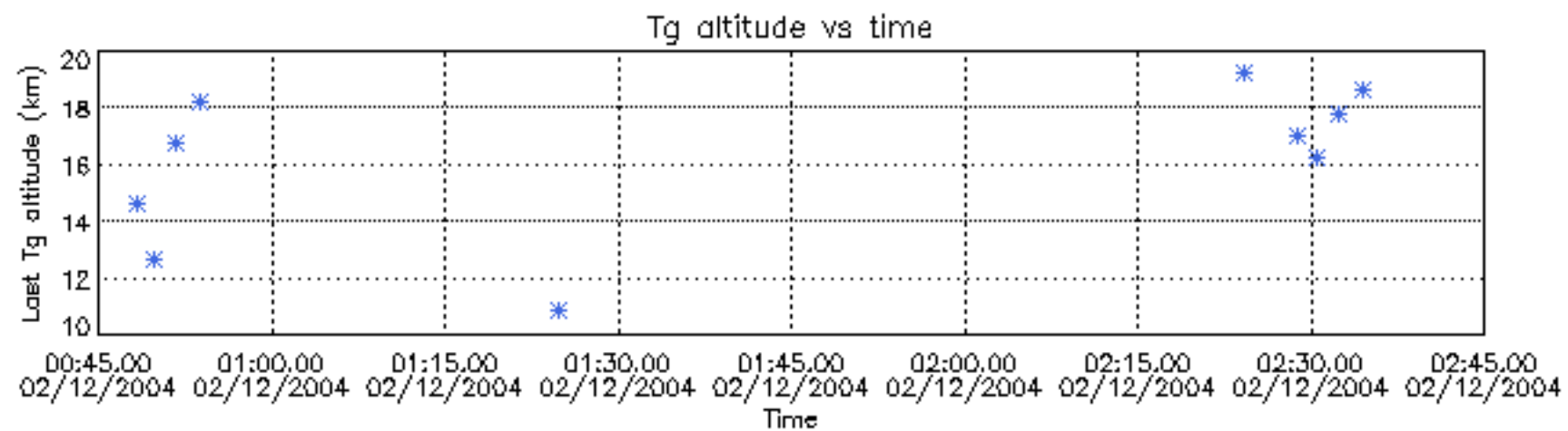
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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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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23; 4560.7; 27-DEC-2004 20:54:46; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;14783
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