

GOMOS Daily Report 15-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	17DEC2004 05:08:27

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (15DEC2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (16DEC2004 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)

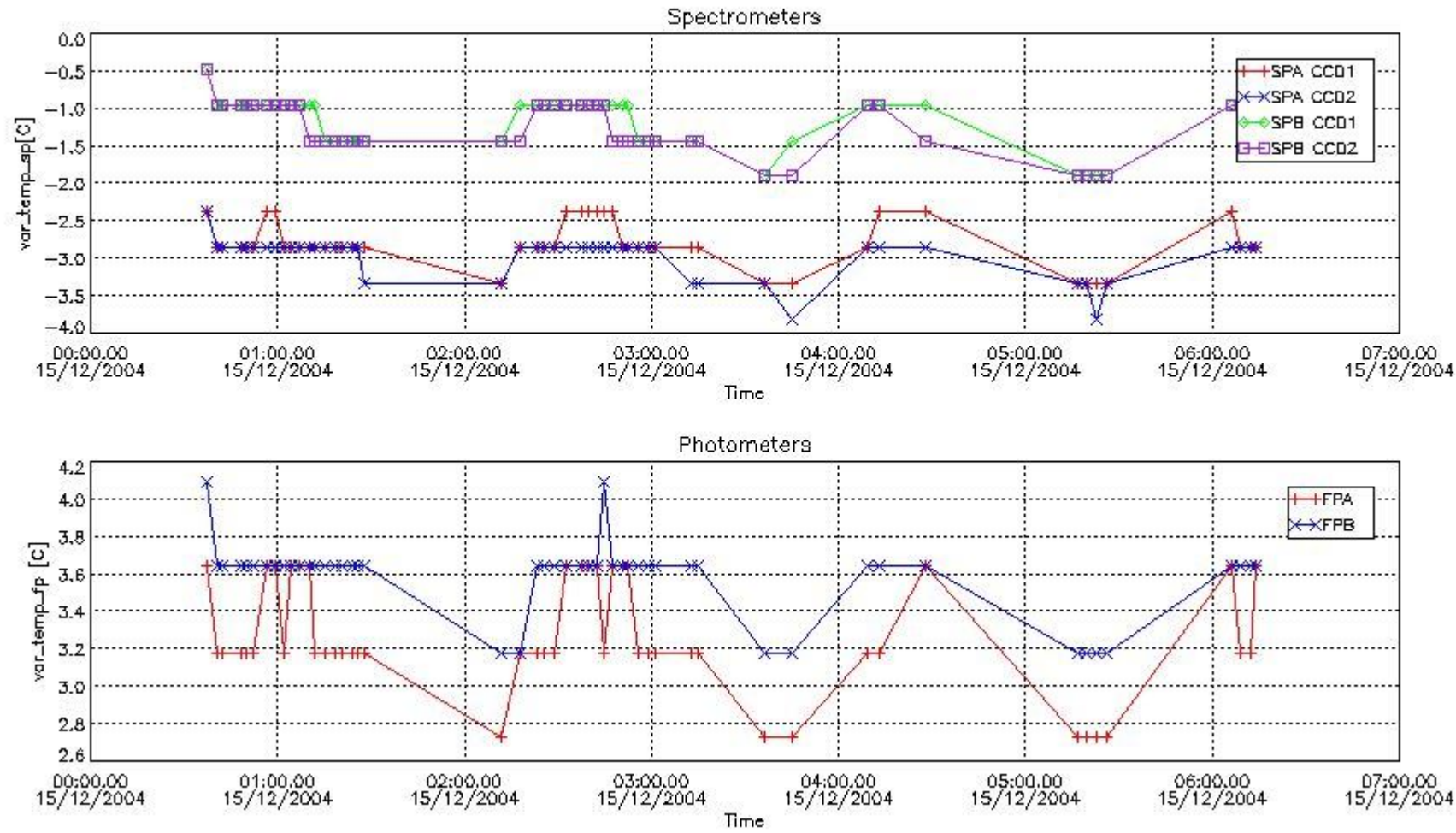
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20041215_003713_000000572033_00016_14599_0000.N1	15-DEC-2004 00:37:13	Twilight	57.000	15	67Alp Vir	0.97600	28000.	114	14599	Yes
2	GOM_TRA_1PNPDE20041215_004043_000000462033_00016_14599_0001.N1	15-DEC-2004 00:40:43	Twilight	45.500	169	46Gam Hya	2.9910	4700.0	91	14599	No
3	GOM_TRA_1PNPDE20041215_004225_000000472033_00016_14599_0002.N1	15-DEC-2004 00:42:25	Twilight	47.000	54	5The Cen	2.0550	4500.0	94	14599	No
4	GOM_TRA_1PNPDE20041215_004813_000000492033_00016_14599_0003.N1	15-DEC-2004 00:48:13	Dark	48.500	4	Alp1Cen	-0.010000	5800.0	97	14599	No
5	GOM_TRA_1PNPDE20041215_004957_000000482033_00017_14600_0004.N1	15-DEC-2004 00:49:57	Dark	47.500	20	Bet Cru	1.2530	30000.	95	14600	No
6	GOM_TRA_1PNPDE20041215_005200_000000392033_00017_14600_0005.N1	15-DEC-2004 00:52:00	Dark	39.000	112	Alp Mus	2.6880	26000.	78	14600	No
7	GOM_TRA_1PNPDE20041215_005645_000000432033_00017_14600_0006.N1	15-DEC-2004 00:56:45	Dark	42.500	29	Bet Car	1.6720	10200.	85	14600	No
8	GOM_TRA_1PNPDE20041215_005916_000000482033_00017_14600_0007.N1	15-DEC-2004 00:59:16	Dark	47.500	41	Eps Car	1.8600	4100.0	95	14600	No
9	GOM_TRA_1PNPDE20041215_010158_000000522033_00017_14600_0008.N1	15-DEC-2004 01:01:58	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	14600	No
10	GOM_TRA_1PNPDE20041215_010408_000000552033_00017_14600_0009.N1	15-DEC-2004 01:04:08	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	14600	No
11	GOM_TRA_1PNPDE20041215_010650_000000592033_00017_14600_0010.N1	15-DEC-2004 01:06:50	Dark	58.500	117	Pi Pup	2.7060	3800.0	117	14600	No
12	GOM_TRA_1PNPDE20041215_011007_000000582033_00017_14600_0011.N1	15-DEC-2004 01:10:07	Dark	58.000	23	21Eps CMa	1.5020	26000.	116	14600	No
13	GOM_TRA_1PNPDE20041215_011159_000000552033_00017_14600_0012.N1	15-DEC-2004 01:11:59	Dark	54.500	179	24Omi2CMa	3.0320	24000.	109	14600	No
14	GOM_TRA_1PNPDE20041215_011505_000000692033_00017_14600_0013.N1	15-DEC-2004 01:15:05	Twilight	68.500	1	9Alp CMa	-1.4400	11000.	137	14600	No
15	GOM_TRA_1PNPDE20041215_011819_000000522033_00017_14600_0014.N1	15-DEC-2004 01:18:19	Bright	51.500	7	19Bet Ori	0.10000	14000.	103	14600	No
16	GOM_TRA_1PNPDE20041215_012037_000000532033_00017_14600_0015.N1	15-DEC-2004 01:20:37	Bright	52.500	30	46Eps Ori	1.6940	30000.	105	14600	No
17	GOM_TRA_1PNPDE20041215_012348_000000682033_00017_14600_0016.N1	15-DEC-2004 01:23:48	Bright	68.000	14	58Alp Ori	0.87000	3000.0	136	14600	No
18	GOM_TRA_1PNPDE20041215_012541_000000542033_00017_14600_0017.N1	15-DEC-2004 01:25:41	Bright	54.000	13	87Alp Tau	0.86700	3800.0	108	14600	No
19	GOM_TRA_1PNPDE20041215_012750_000000382033_00017_14600_0018.N1	15-DEC-2004 01:27:50	Bright	38.000	146	25Eta Tau	2.8730	15200.	76	14600	No
20	GOM_TRA_1PNPDE20041215_021153_000000542033_00017_14600_0000.N1	15-DEC-2004 02:11:53	Bright	53.500	138	47Eps Vir	2.8280	4700.0	107	14600	No
21	GOM_TRA_1PNPDE20041215_021750_000000552033_00017_14600_0001.N1	15-DEC-2004 02:17:50	Twilight	55.000	15	67Alp Vir	0.97600	28000.	110	14600	No
22	GOM_TRA_1PNPDE20041215_022303_000000422033_00017_14600_0002.N1	15-DEC-2004 02:23:03	Twilight	42.000	54	5The Cen	2.0550	4500.0	84	14600	No
23	GOM_TRA_1PNPDE20041215_022513_000000392033_00017_14600_0003.N1	15-DEC-2004 02:25:13	Twilight	38.500	78	Alp Lup	2.3040	28000.	77	14600	No
24	GOM_TRA_1PNPDE20041215_022849_000000522033_00017_14600_0004.N1	15-DEC-2004 02:28:49	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	14600	No
25	GOM_TRA_1PNPDE20041215_023235_000000412033_00018_14601_0005.N1	15-DEC-2004 02:32:35	Dark	40.500	112	Alp Mus	2.6880	26000.	81	14601	No
26	GOM_TRA_1PNPDE20041215_023719_000000442033_00018_14601_0006.N1	15-DEC-2004 02:37:19	Dark	44.000	29	Bet Car	1.6720	10200.	88	14601	No
27	GOM_TRA_1PNPDE20041215_023952_000000572033_00018_14601_0007.N1	15-DEC-2004 02:39:52	Dark	56.500	41	Eps Car	1.8600	4100.0	113	14601	No
28	GOM_TRA_1PNPDE20041215_024234_000000512033_00018_14601_0008.N1	15-DEC-2004 02:42:34	Dark	51.000	34	Gam2Vel	1.7930	23000.	102	14601	No
29	GOM_TRA_1PNPDE20041215_024446_000000552033_00018_14601_0009.N1	15-DEC-2004 02:44:46	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	14601	No
30	GOM_TRA_1PNPDE20041215_024727_000000652033_00018_14601_0010.N1	15-DEC-2004 02:47:27	Dark	64.500	117	Pi Pup	2.7060	3800.0	129	14601	No
31	GOM_TRA_1PNPDE20041215_025044_000000602033_00018_14601_0011.N1	15-DEC-2004 02:50:44	Dark	59.500	23	21Eps CMa	1.5020	26000.	119	14601	No
32	GOM_TRA_1PNPDE20041215_025236_000000572033_00018_14601_0012.N1	15-DEC-2004 02:52:36	Dark	56.500	179	24Omi2CMa	3.0320	24000.	113	14601	No
33	GOM_TRA_1PNPDE20041215_025541_000000672033_00018_14601_0013.N1	15-DEC-2004 02:55:41	Twilight	67.000	1	9Alp CMa	-1.4400	11000.	134	14601	No
34	GOM_TRA_1PNPDE20041215_025853_000000562033_00018_14601_0014.N1	15-DEC-2004 02:58:53	Bright	55.500	7	19Bet Ori	0.10000	14000.	111	14601	No
35	GOM_TRA_1PNPDE20041215_030112_000000502033_00018_14601_0015.N1	15-DEC-2004 03:01:12	Bright	50.000	30	46Eps Ori	1.6940	30000.	100	14601	No
36	GOM_TRA_1PNPDE20041215_031254_000000392033_00018_14601_0020.N1	15-DEC-2004 03:12:54	Bright	39.000	149	45Eps Per	2.8880	30000.	78	14601	No
37	GOM_TRA_1PNPDE20041215_031503_000000402033_00018_14601_0021.N1	15-DEC-2004 03:15:03	Bright	40.000	175	39Del Per	3.0100	19400.	80	14601	No
38	GOM_TRA_1PNPDE20041215_033611_000000612033_00018_14601_0002.N1	15-DEC-2004 03:36:11	Bright	61.000	32	77Eps UMa	1.7630	11000.	122	14601	No
39	GOM_TRA_1PNPDE20041215_034515_000000392033_00018_14601_0005.N1	15-DEC-2004 03:45:15	Bright	38.500	83		2.3780	11000.	77	14601	No
40	GOM_TRA_1PNPDE20041215_040926_000000522033_00018_14601_0012.N1	15-DEC-2004 04:09:26	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	14601	No
41	GOM_TRA_1PNPDE20041215_041312_000000402033_00019_14602_0013.N1	15-DEC-2004 04:13:12	Dark	39.500	112	Alp Mus	2.6880	26000.	79	14602	No
42	GOM_TRA_1PNPDE20041215_042803_000000612033_00019_14602_0018.N1	15-DEC-2004 04:28:03	Dark	60.500	117	Pi Pup	2.7060	3800.0	121	14602	No
43	GOM_TRA_1PNPDE20041215_051646_000000612033_00019_14602_0002.N1	15-DEC-2004 05:16:46	Bright	60.500	32	77Eps UMa	1.7630	11000.	121	14602	No
44	GOM_TRA_1PNPDE20041215_051920_000000402033_00019_14602_0003.N1	15-DEC-2004 05:19:20	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	14602	No
45	GOM_TRA_1PNPDE20041215_052239_000000392033_00019_14602_0004.N1	15-DEC-2004 05:22:39	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	14602	No
46	GOM_TRA_1PNPDE20041215_052552_000000372033_00019_14602_0005.N1	15-DEC-2004 05:25:52	Bright	37.000	83		2.3780	11000.	74	14602	No

47	GOM_TRA_1PNPDE20041215_060559_000000552033_00020_14603_0017.N1	15-DEC-2004 06:05:59	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	14603	No
48	GOM_TRA_1PNPDE20041215_060842_000000542033_00020_14603_0018.N1	15-DEC-2004 06:08:42	Dark	53.500	117	Pi Pup	2.7060	3800.0	107	14603	No
49	GOM_TRA_1PNPDE20041215_061158_000000582033_00020_14603_0019.N1	15-DEC-2004 06:11:58	Dark	58.000	23	21Eps CMa	1.5020	26000.	116	14603	No
50	GOM_TRA_1PNPDE20041215_061348_000000572033_00020_14603_0020.N1	15-DEC-2004 06:13:48	Dark	56.500	179	24Omi2CMa	3.0320	24000.	113	14603	No

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



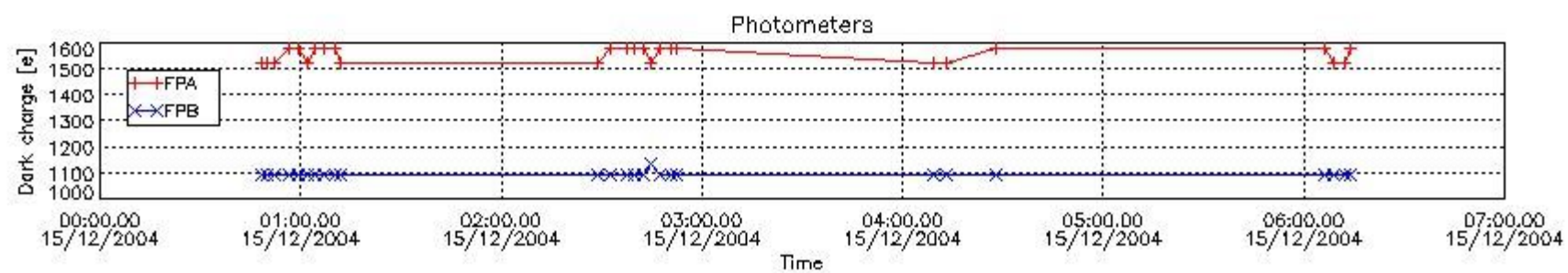
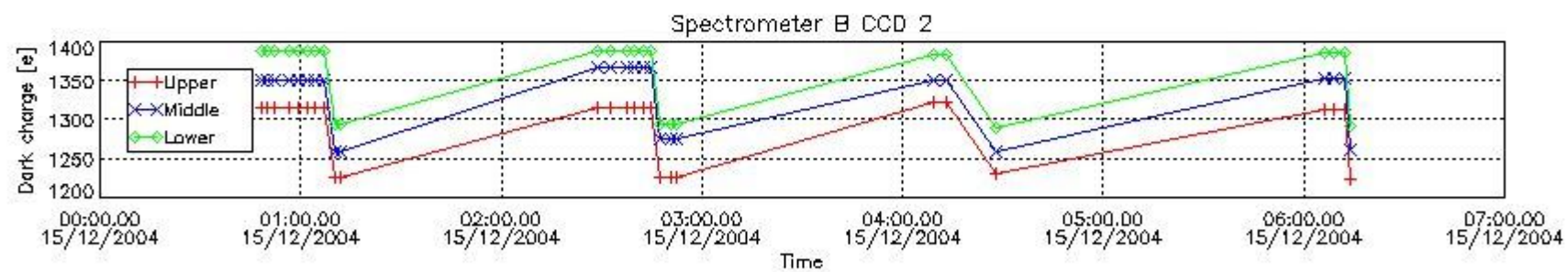
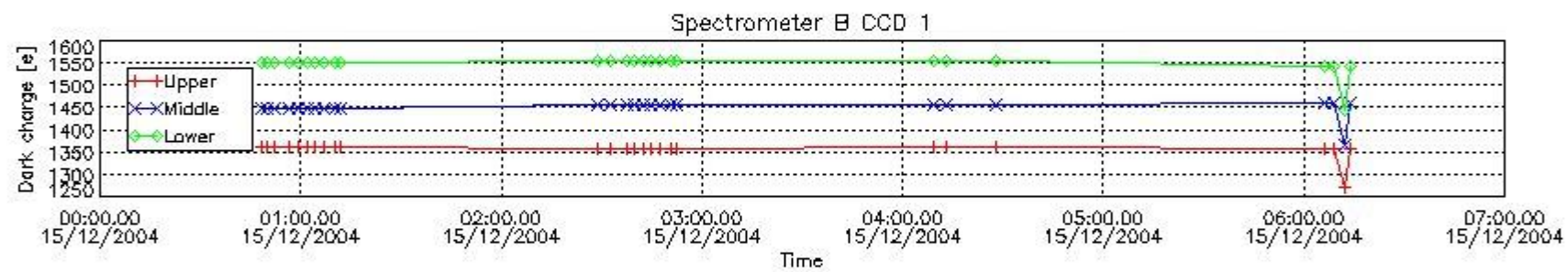
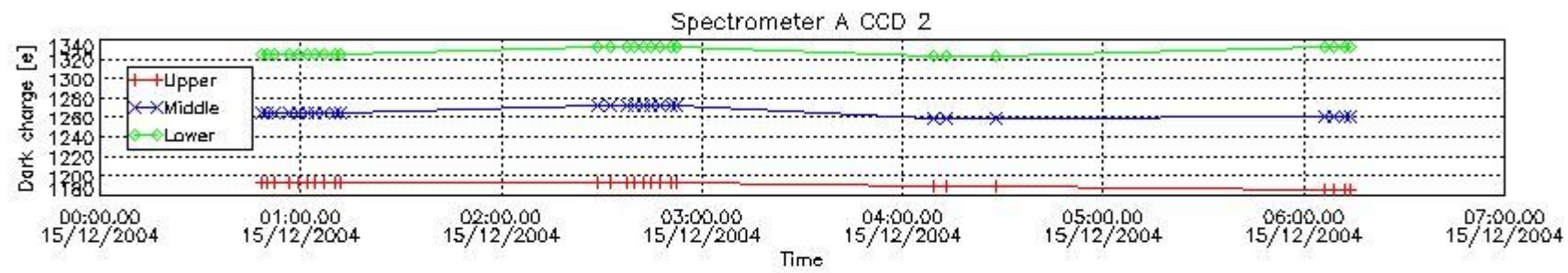
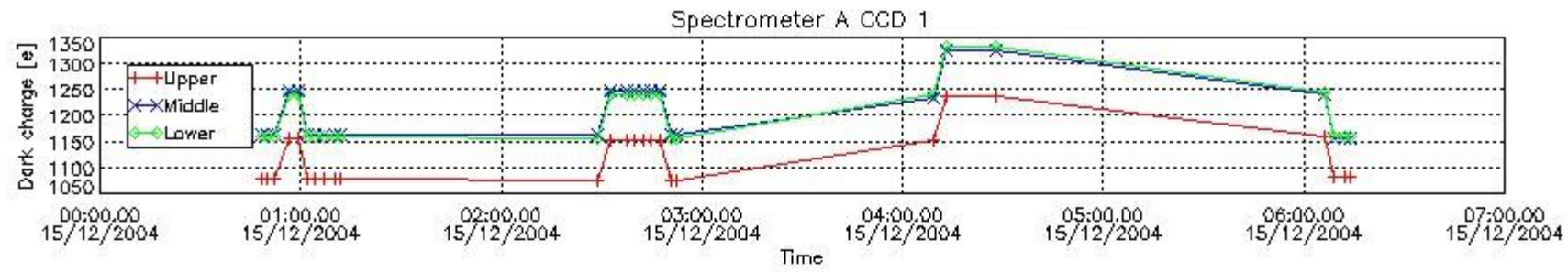
4. Overview of dark signal processing per product

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



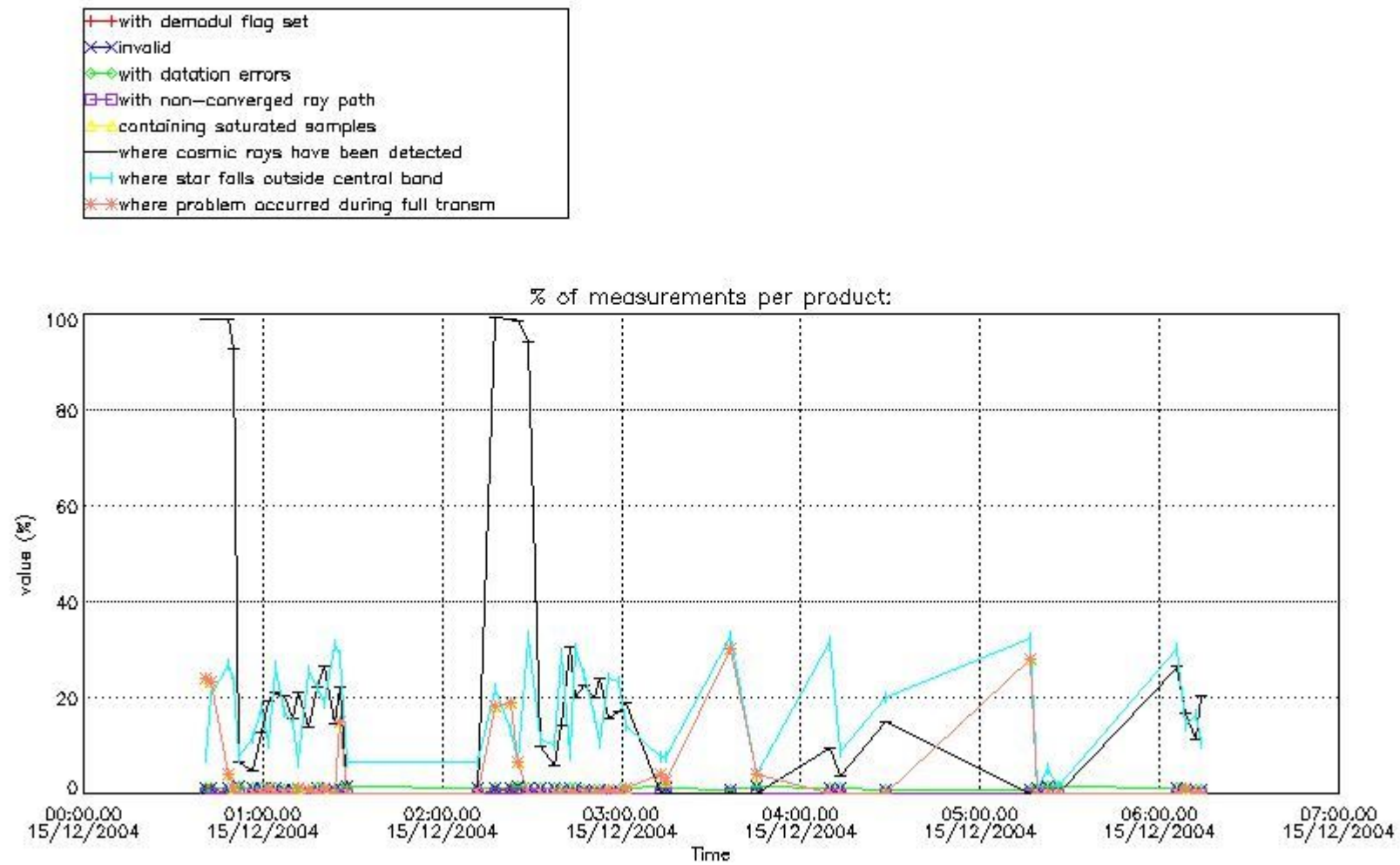
5. Demodulation flag and quality information monitoring

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.

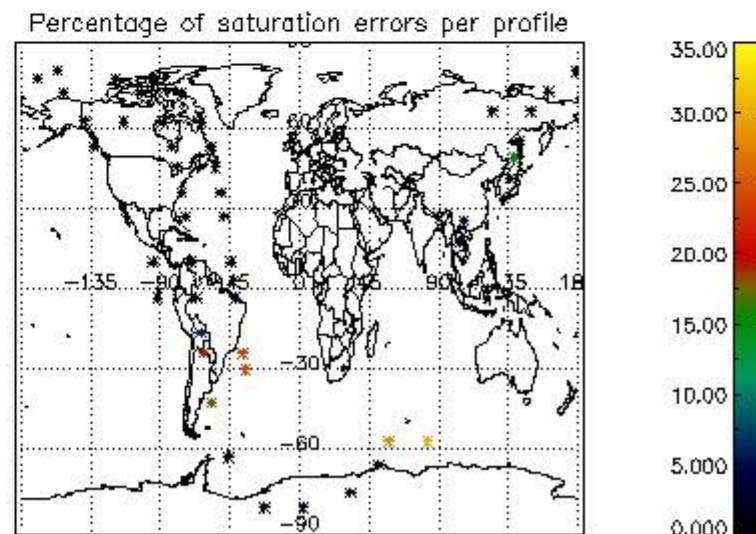
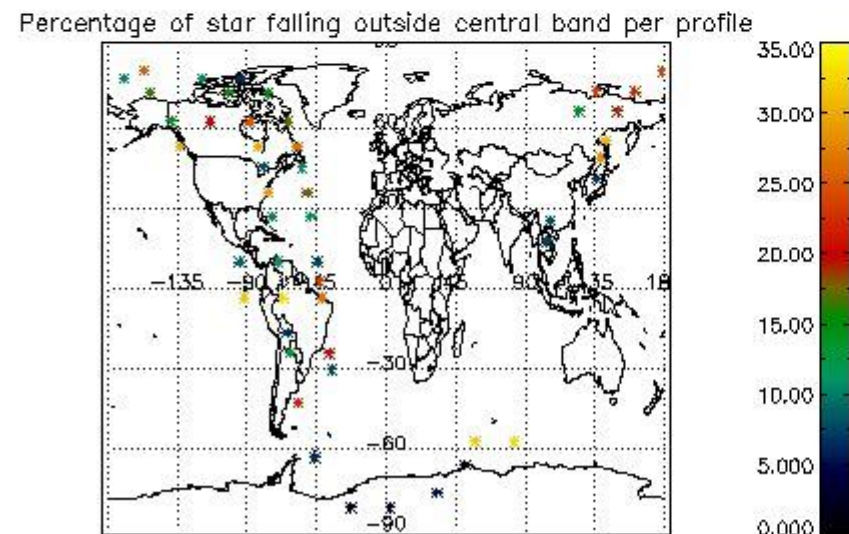
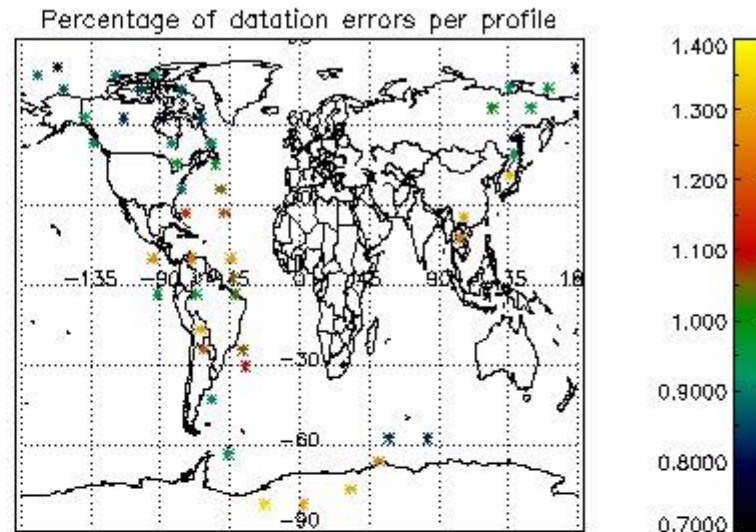
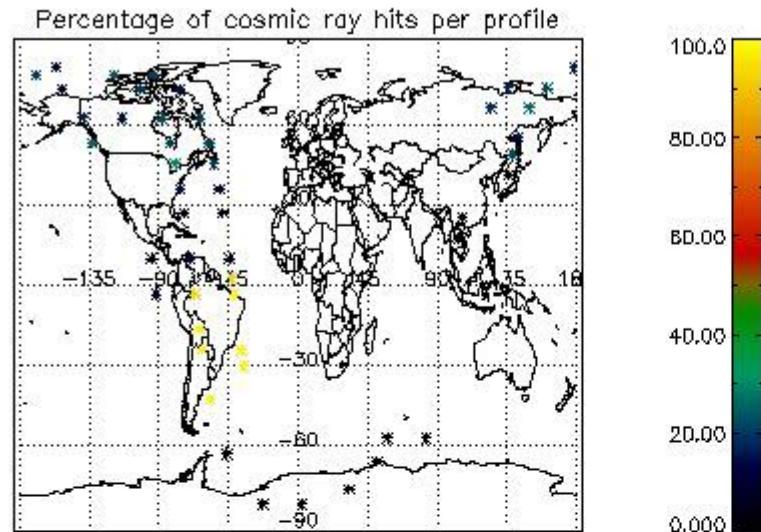
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.5306 %
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)



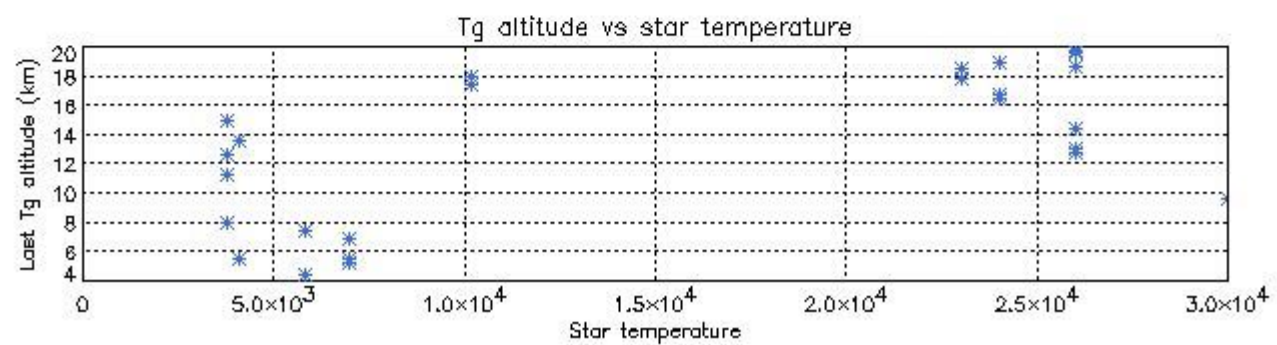
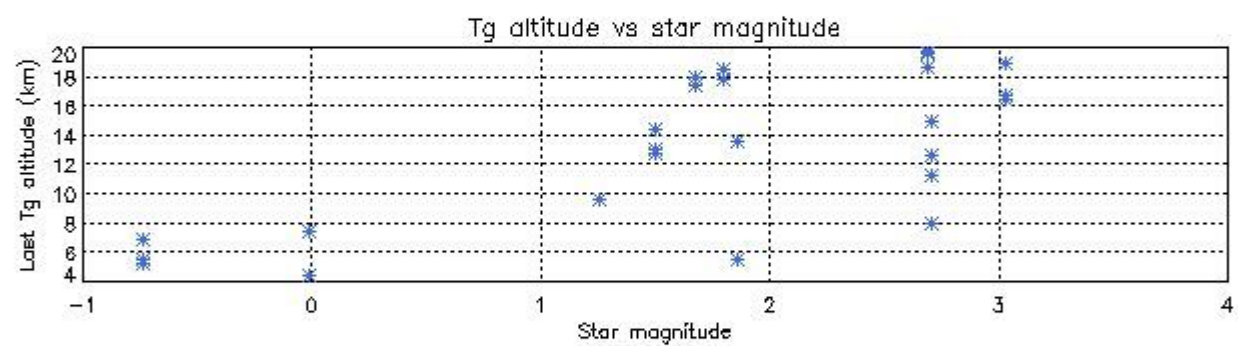
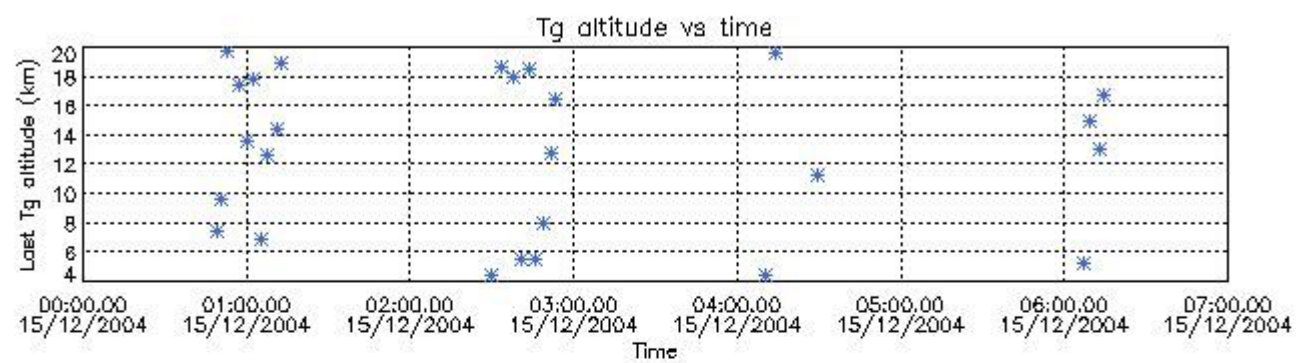
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.742	14.924	13.196
St. deviation:	5.3459	7.4307	4.3852
Maximum:	19.756	24.330	19.441
Minimum:	4.3586	4.3541	8.7800
Number of data:	26.000	16.000	7.0000

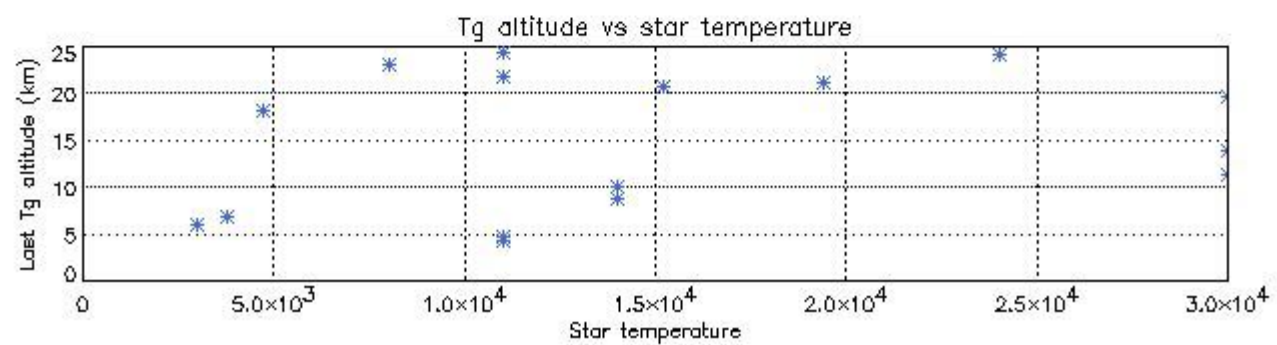
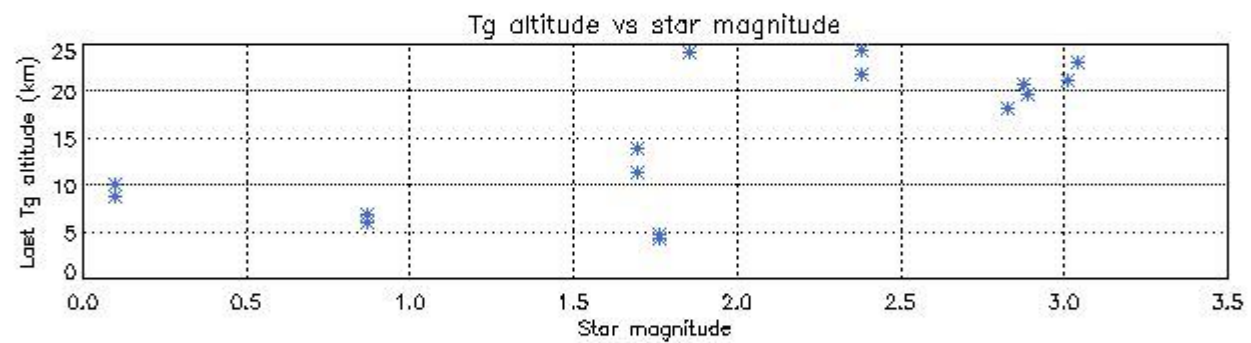
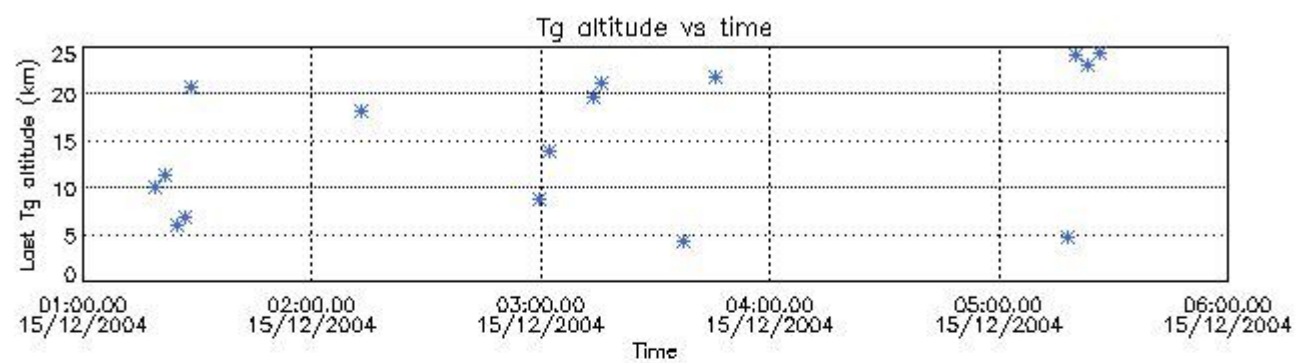
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



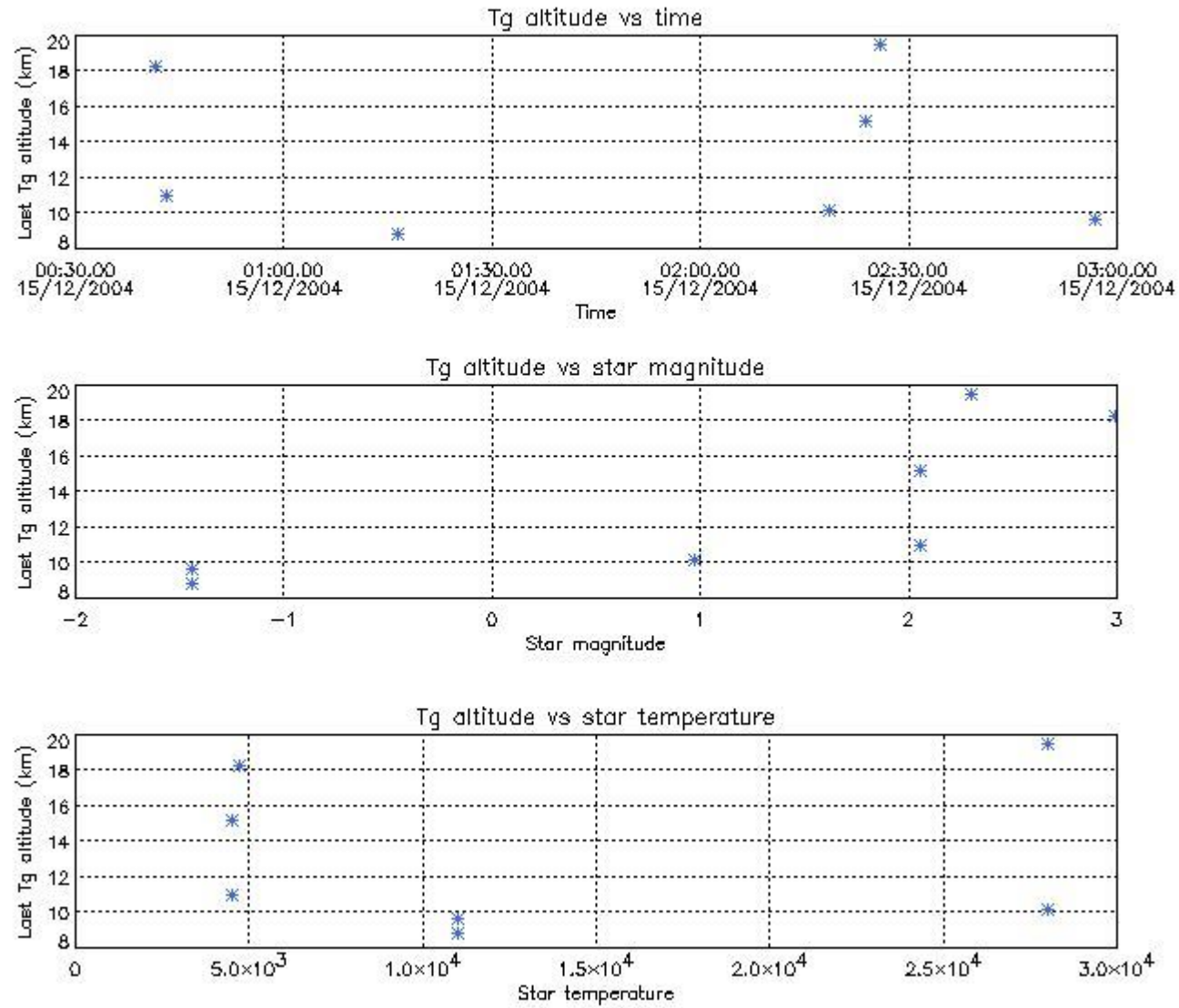
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



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

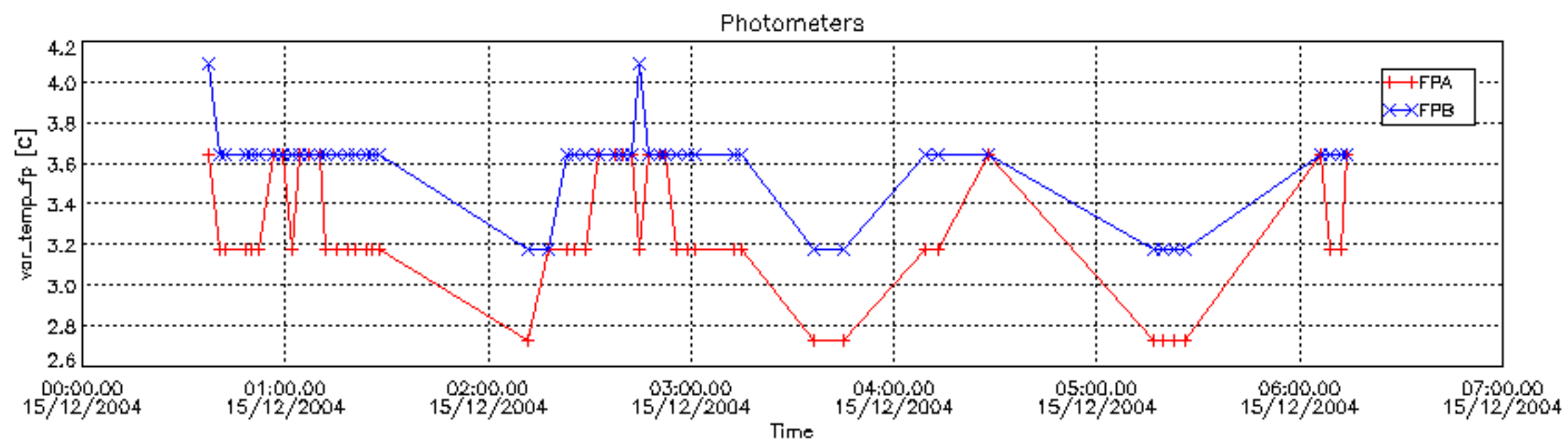
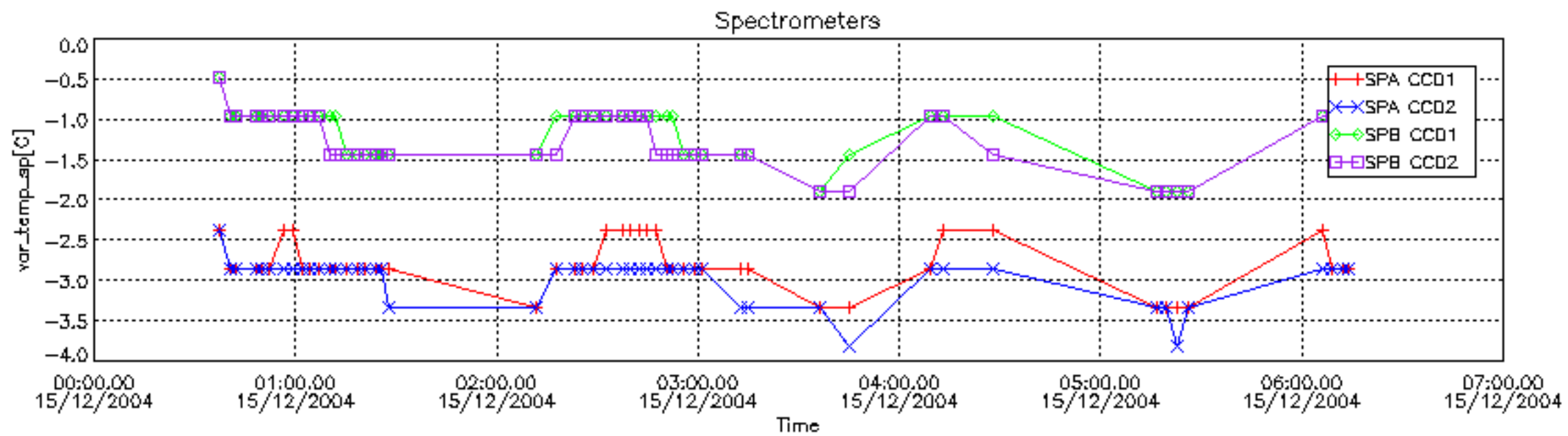
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

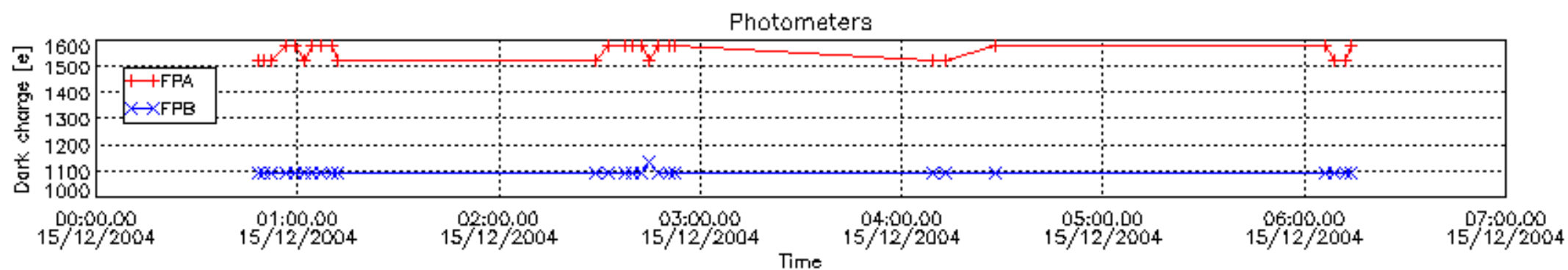
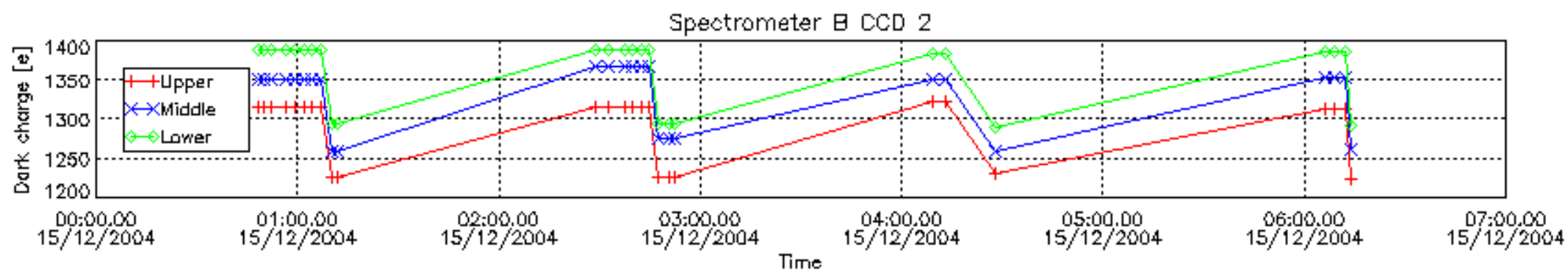
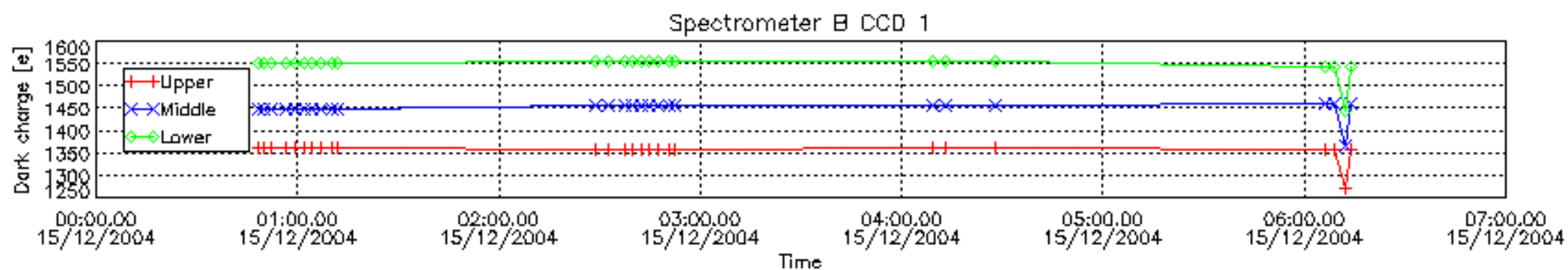
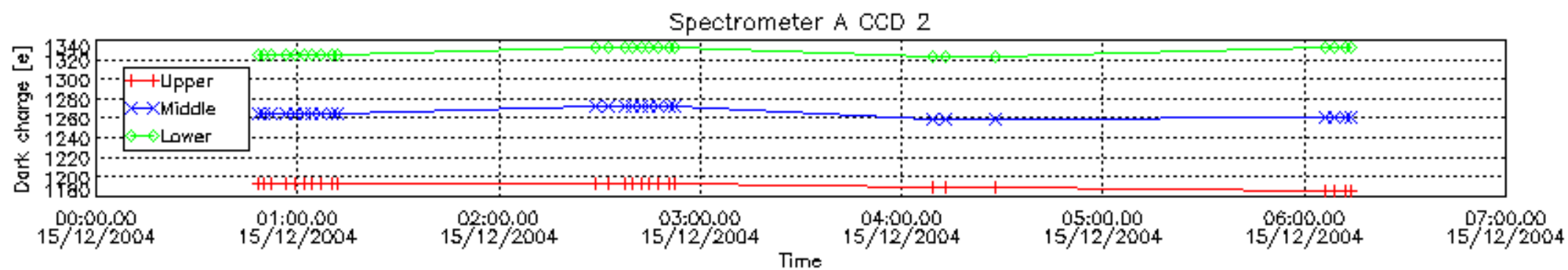
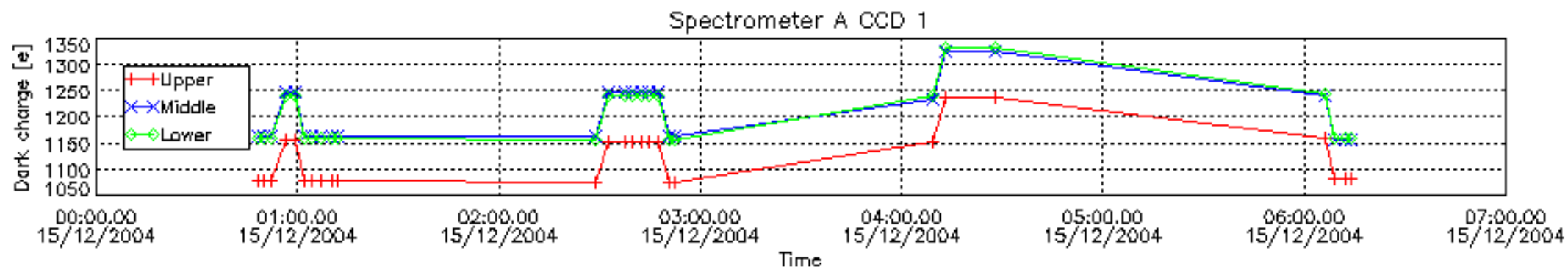
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.0	1447.2	1462.0	1447.6
St. deviation:	4.9794	6.7508	7.1398	9.0224
Maximum:	1509.0	1510.0	1521.0	1505.0
Minimum:	1418.0	1398.0	1444.0	1419.0
Number of data:	34300.	34300.	18850.	18850.

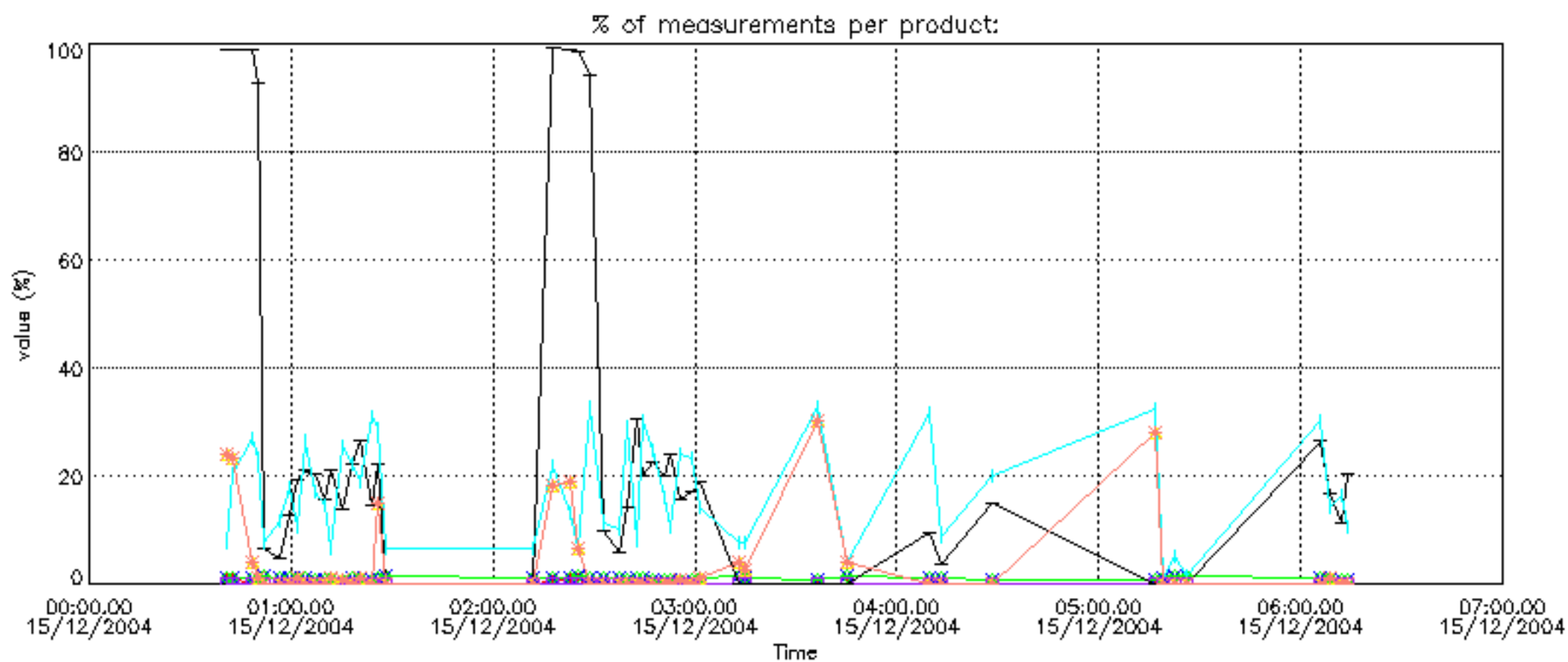
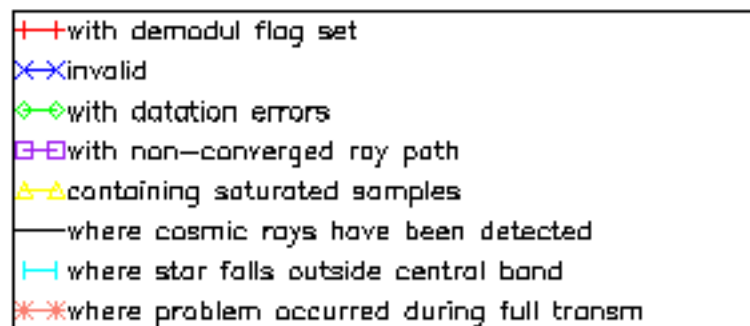
8. Auxiliary Data Files used for the production reported in section 2.2

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.

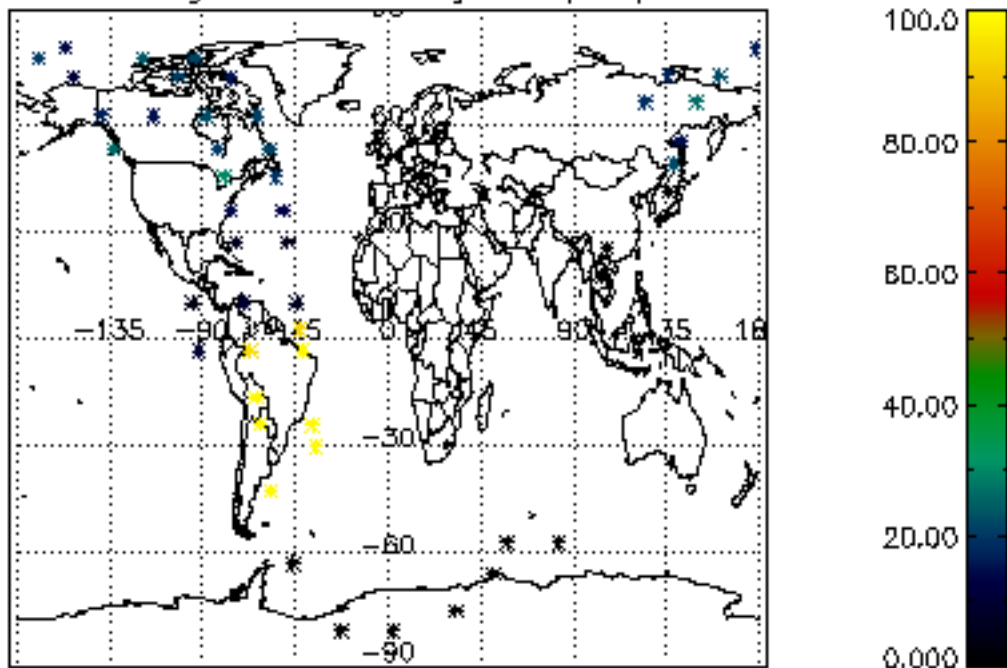
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	15-DEC-2004 00:37:13
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041213_094740_20041211_000000_20100101_000000	1	15-DEC-2004 00:37:13
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	15-DEC-2004 00:37:13
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-DEC-2004 00:37:13
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	15-DEC-2004 00:37:13
ECMWF_FILE	AUX_ECF_AXNECM20041214_060102_20041214_210000_20041215_090000	1	15-DEC-2004 00:37:13
ECMWF_FILE	AUX_ECF_AXNECM20041214_192339_20041215_030000_20041215_150000	38	15-DEC-2004 03:36:11
OPTIONAL_ECMWF_FILE	NOT USED	1	15-DEC-2004 00:37:13
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041214_230314_20041214_194725_20041224_211337	1	15-DEC-2004 00:37:13



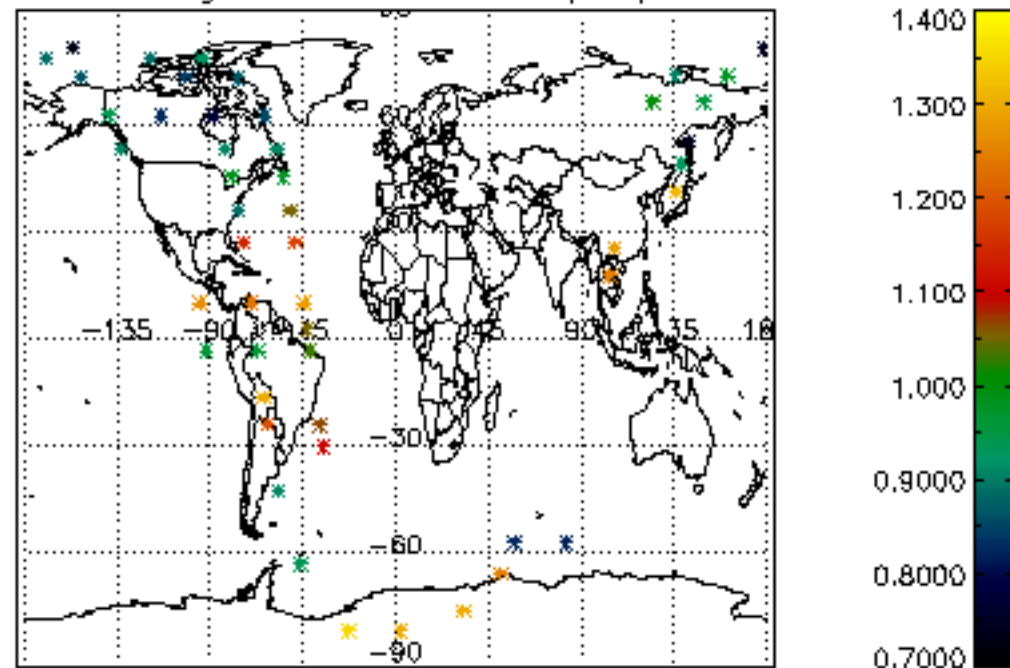




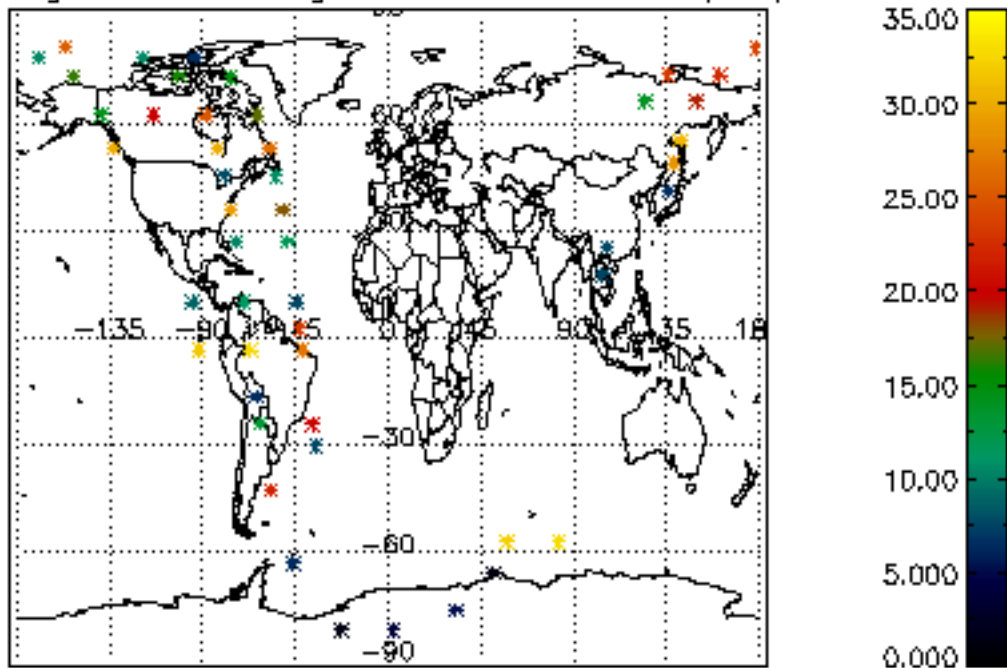
Percentage of cosmic ray hits per profile



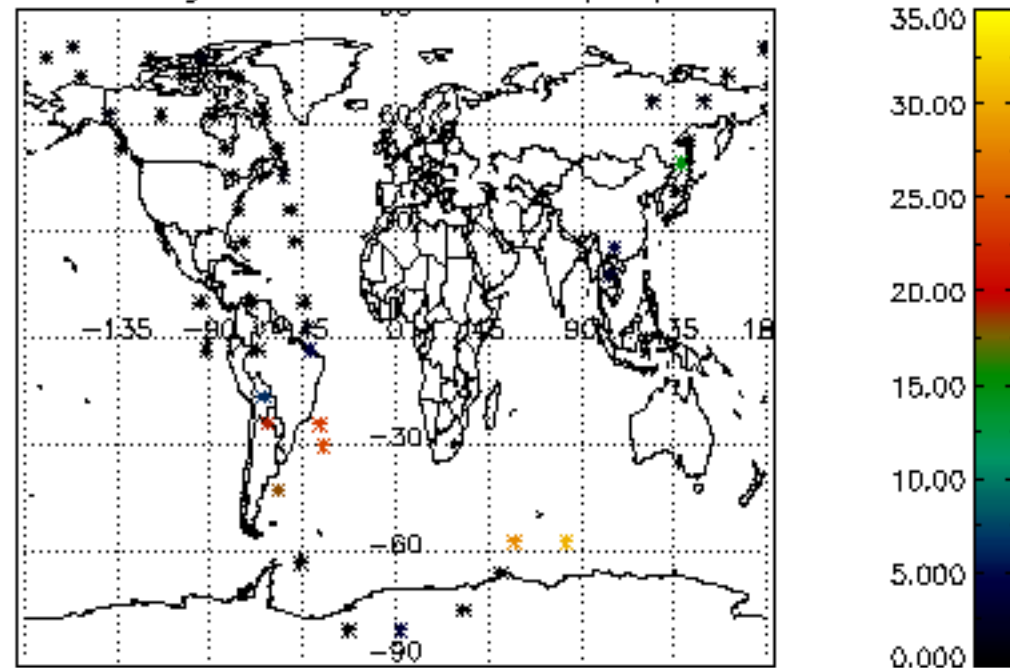
Percentage of datation errors per profile



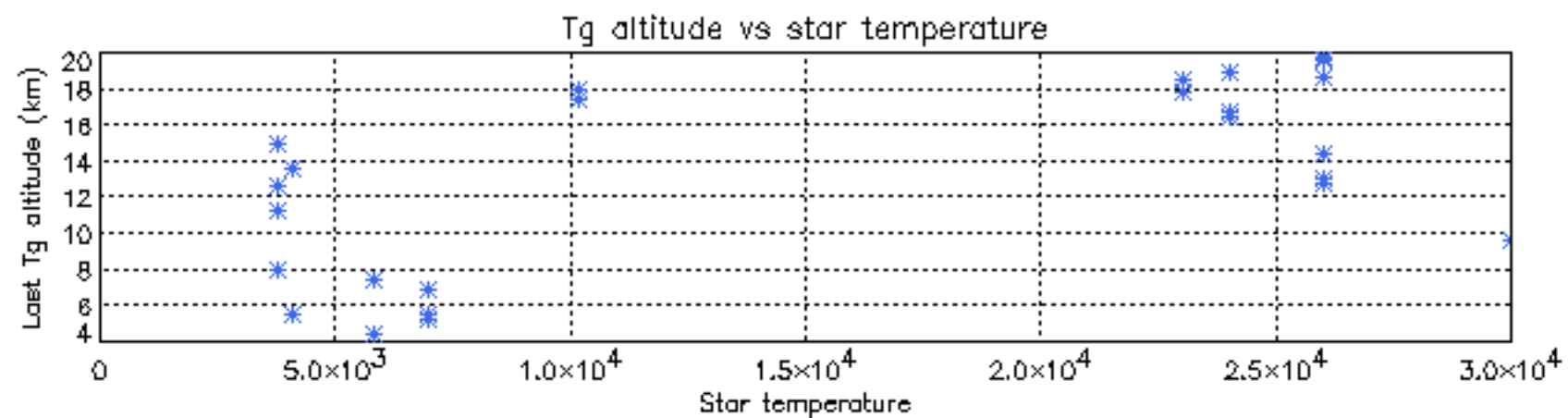
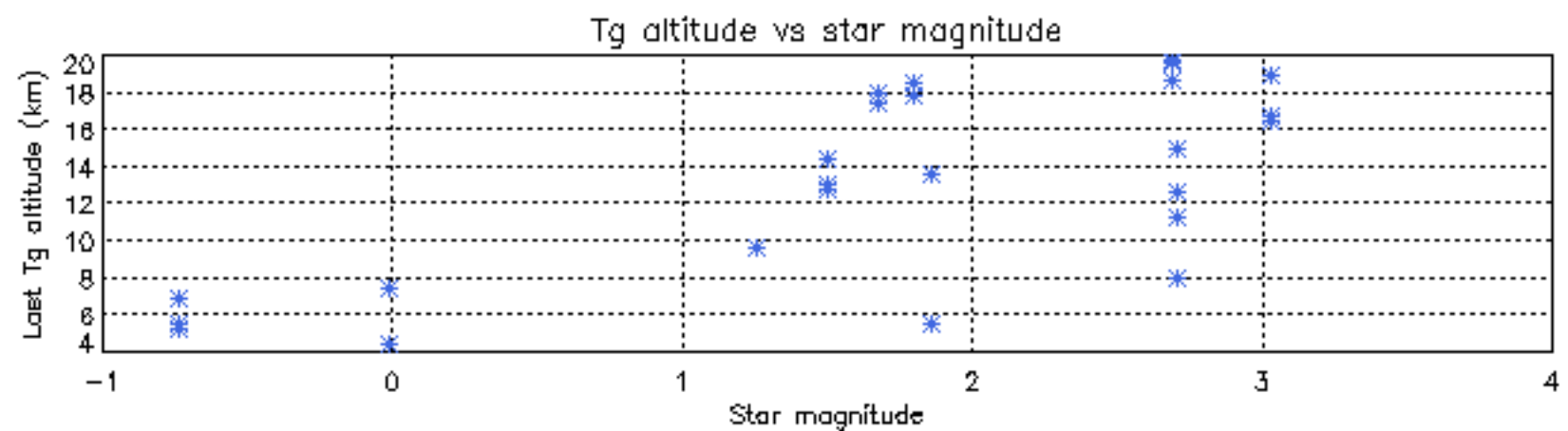
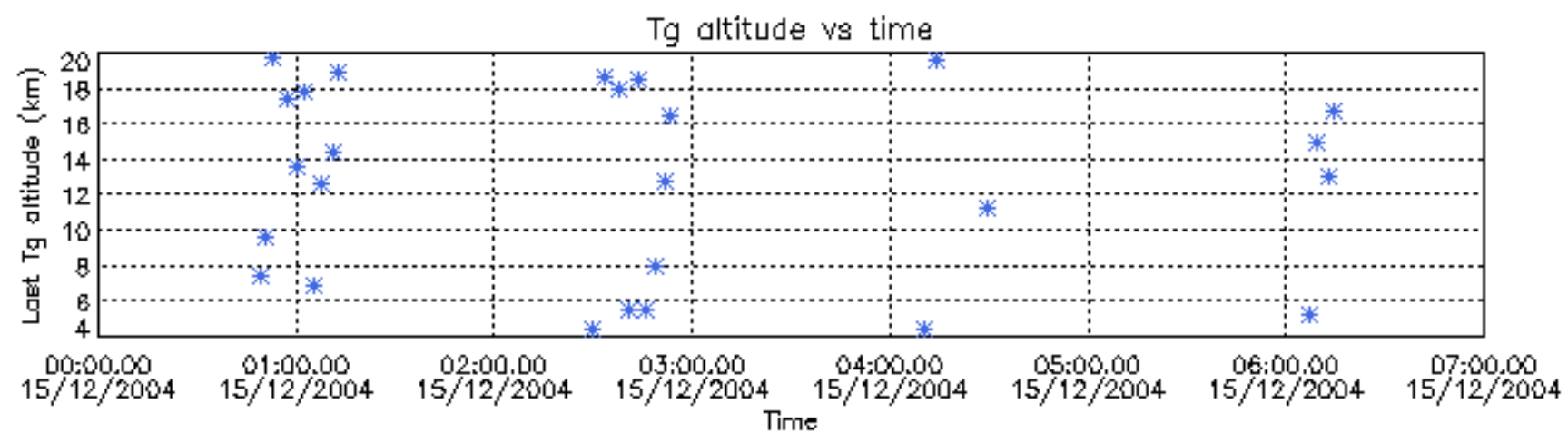
Percentage of star falling outside central band per profile



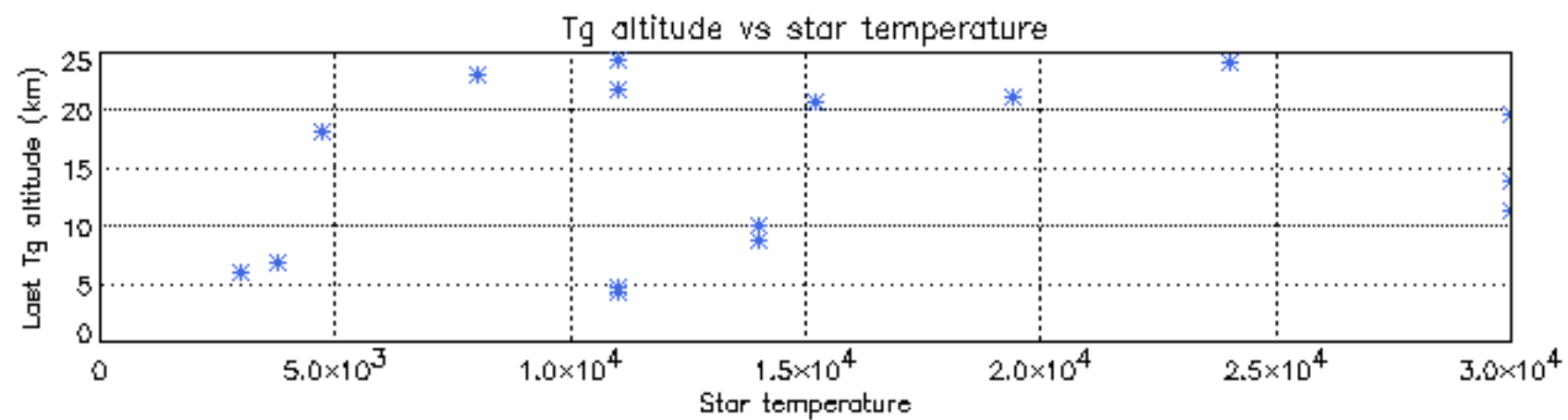
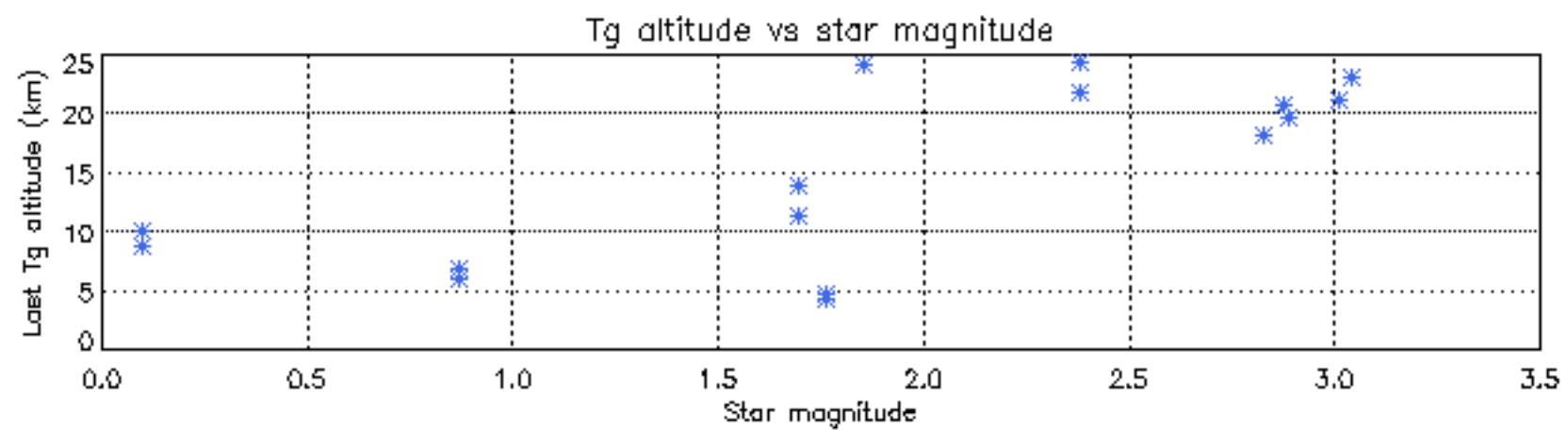
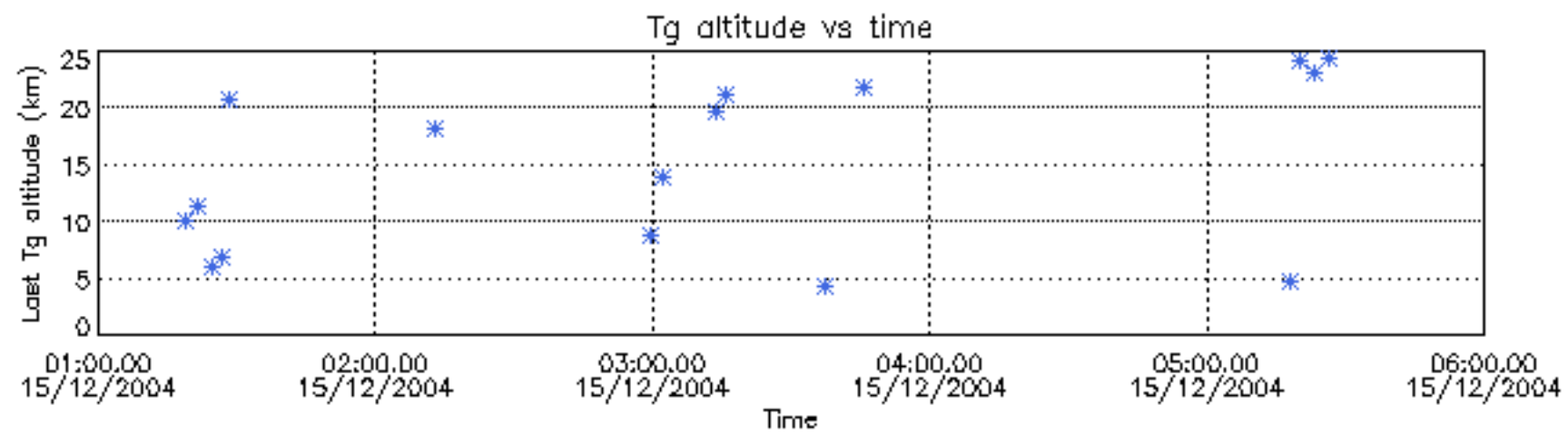
Percentage of saturation errors per profile



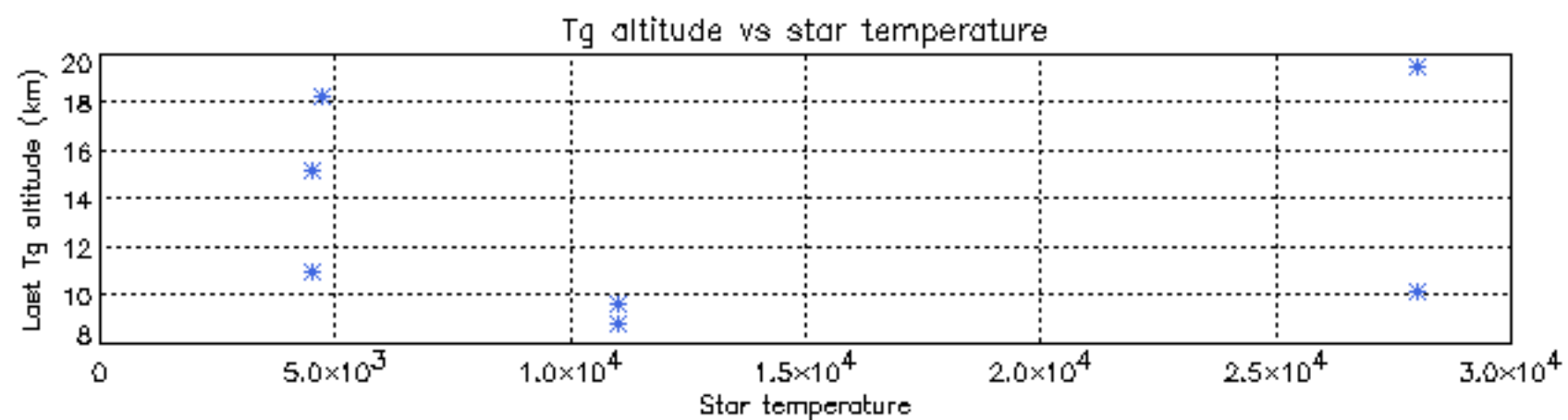
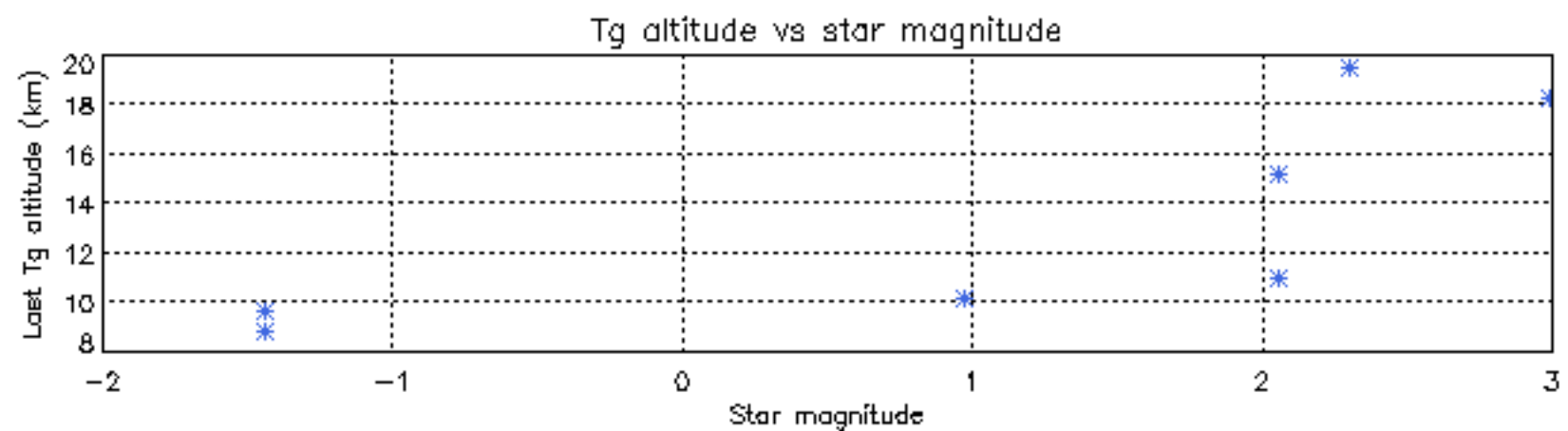
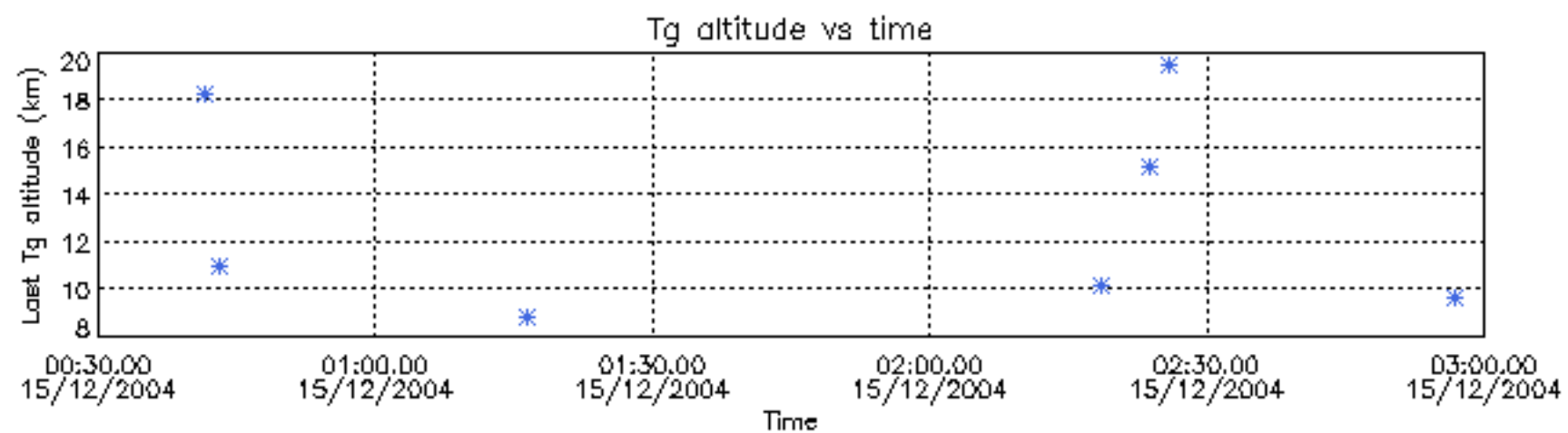
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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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
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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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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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4;	-280.6;	01-DEC-2004	23:12:36;	Dark	;	40.0;	95;	Zet Cen	;	2.55;	26000;occ;	80;	0;	14412
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11;	619.3;	01-DEC-2004	23:27:36;	Dark	;	51.5;	34;	Gam2Vel	;	1.79;	23000;occ;	103;	0;	14413
12;	814.2;	01-DEC-2004	23:30:51;	Dark	;	58.0;	2;	Alp Car	;	-0.74;	7000;occ;	116;	0;	14413
13;	929.6;	01-DEC-2004	23:32:46;	Dark	;	63.5;	117;	Pi Pup	;	2.71;	3800;occ;	127;	0;	14413
14;	1155.2;	01-DEC-2004	23:36:32;	Dark	;	73.0;	23;	21Eps CMA	;	1.50;	26000;occ;	146;	0;	14413
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16;	1531.1;	01-DEC-2004	23:42:48;	Dark	;	92.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	184;	0;	14413
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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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15;	-2124.6;	01-DEC-2004	15:59:28;	Bright;	;	44.0;	82;	48Bet UMA	;	2.37;	10600;occ;	88;	0;	14408
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17;	-1898.6;	01-DEC-2004	16:03:14;	Bright;	;	54.0;	39;	85Eta UMA	;	1.85;	24000;occ;	108;	0;	14408
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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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23;	-397.2;	16-DEC-2004	11:55:09;	Dark	;	46.5;	54;	5The Cen	;	2.06;	4500;occ;	93;	0;	14620
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26;	334.9;	16-DEC-2004	12:07:21;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	14621
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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 12;-3620.7; 22-DEC-2004 17:55:19; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;14710
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