

GOMOS Daily Report 05-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	07DEC2004 05:01:44

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (05DEC2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (06DEC2004 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)

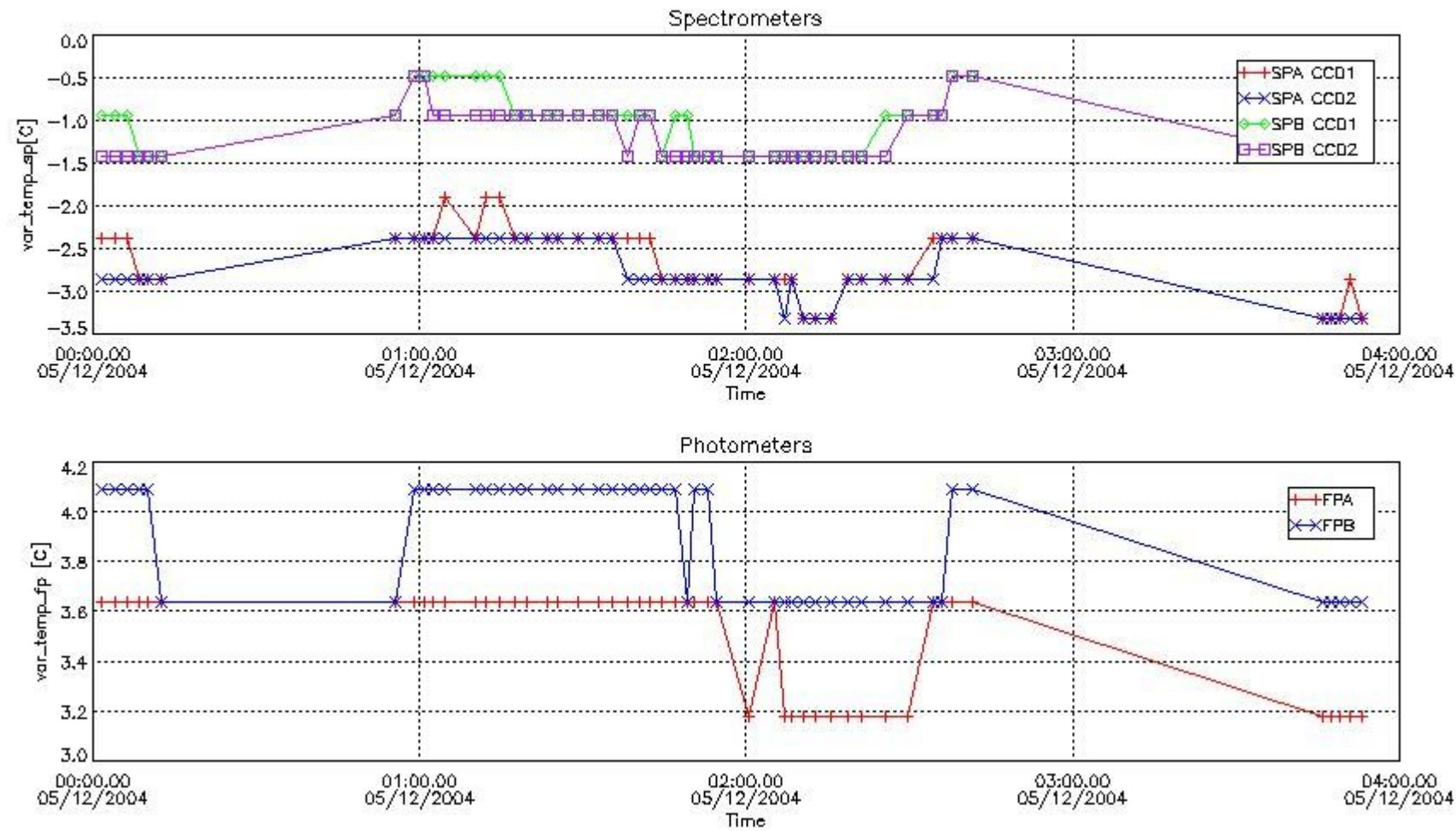
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20041205_000140_000000392032_00374_14456_0019.N1	05-DEC-2004 00:01:40	Bright	39.000	146	25Eta Tau	2.8730	15200.	78	14456	No
2	GOM_TRA_1PNPDE20041205_000358_000000402032_00374_14456_0020.N1	05-DEC-2004 00:03:58	Bright	39.500	150	44Zet Per	2.8900	28000.	79	14456	No
3	GOM_TRA_1PNPDE20041205_000623_000000382032_00374_14456_0021.N1	05-DEC-2004 00:06:23	Bright	37.500	79	26Bet Per	2.3100	13100.	75	14456	No
4	GOM_TRA_1PNPDE20041205_000826_000000372032_00374_14456_0022.N1	05-DEC-2004 00:08:26	Bright	37.000	175	39Del Per	3.0100	19400.	74	14456	No
5	GOM_TRA_1PNPDE20041205_000955_000000362032_00374_14456_0023.N1	05-DEC-2004 00:09:55	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	14456	No
6	GOM_TRA_1PNPDE20041205_001228_000000412032_00374_14456_0024.N1	05-DEC-2004 00:12:28	Bright	40.500	110	37Del Cas	2.6780	8900.0	81	14456	No
7	GOM_TRA_1PNPDE20041205_005525_000000512032_00374_14456_0000.N1	05-DEC-2004 00:55:25	Twilight	51.000	106	9Bet Crv	2.6480	5600.0	102	14456	No
8	GOM_TRA_1PNPDE20041205_005906_000000392032_00374_14456_0001.N1	05-DEC-2004 00:59:06	Twilight	39.000	95	Zet Cen	2.5450	26000.	78	14456	No
9	GOM_TRA_1PNPDE20041205_010057_000000442032_00374_14456_0002.N1	05-DEC-2004 01:00:57	Dark	44.000	77	Eps Cen	2.3030	28000.	88	14456	No
10	GOM_TRA_1PNPDE20041205_010224_000000422032_00374_14456_0003.N1	05-DEC-2004 01:02:24	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	14456	No
11	GOM_TRA_1PNPDE20041205_010437_000000432032_00375_14457_0004.N1	05-DEC-2004 01:04:37	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	14457	No
12	GOM_TRA_1PNPDE20041205_011012_000000432032_00375_14457_0005.N1	05-DEC-2004 01:10:12	Dark	42.500	29	Bet Car	1.6720	10200.	85	14457	No
13	GOM_TRA_1PNPDE20041205_011217_000000452032_00375_14457_0006.N1	05-DEC-2004 01:12:17	Dark	44.500	41	Eps Car	1.8600	4100.0	89	14457	No
14	GOM_TRA_1PNPDE20041205_011433_000000592032_00375_14457_0007.N1	05-DEC-2004 01:14:33	Dark	59.000	34	Gam2Vel	1.7930	23000.	118	14457	No
15	GOM_TRA_1PNPDE20041205_011732_000000562032_00375_14457_0008.N1	05-DEC-2004 01:17:32	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	14457	No
16	GOM_TRA_1PNPDE20041205_011943_000000572032_00375_14457_0009.N1	05-DEC-2004 01:19:43	Dark	57.000	117	Pi Pup	2.7060	3800.0	114	14457	No
17	GOM_TRA_1PNPDE20041205_012322_000000632032_00375_14457_0010.N1	05-DEC-2004 01:23:22	Dark	63.000	23	21Eps CMa	1.5020	26000.	126	14457	No
18	GOM_TRA_1PNPDE20041205_012525_000000672032_00375_14457_0011.N1	05-DEC-2004 01:25:25	Dark	67.000	179	24Omi2CMa	3.0320	24000.	134	14457	No
19	GOM_TRA_1PNPDE20041205_012914_000000872032_00375_14457_0012.N1	05-DEC-2004 01:29:14	Twilight	86.500	1	9Alp CMa	-1.4400	11000.	173	14457	No
20	GOM_TRA_1PNPDE20041205_013244_000000572032_00375_14457_0013.N1	05-DEC-2004 01:32:44	Bright	57.000	7	19Bet Ori	0.10000	14000.	114	14457	No
21	GOM_TRA_1PNPDE20041205_013516_000000612032_00375_14457_0014.N1	05-DEC-2004 01:35:16	Bright	60.500	33	50Zet Ori	1.7660	30000.	121	14457	No
22	GOM_TRA_1PNPDE20041205_013803_000000592032_00375_14457_0015.N1	05-DEC-2004 01:38:03	Bright	58.500	27	24Gam Ori	1.6360	26000.	117	14457	No
23	GOM_TRA_1PNPDE20041205_014027_000000592032_00375_14457_0016.N1	05-DEC-2004 01:40:27	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	14457	No
24	GOM_TRA_1PNPDE20041205_014216_000000402032_00375_14457_0017.N1	05-DEC-2004 01:42:16	Bright	39.500	146	25Eta Tau	2.8730	15200.	79	14457	No
25	GOM_TRA_1PNPDE20041205_014434_000000412032_00375_14457_0018.N1	05-DEC-2004 01:44:34	Bright	40.500	150	44Zet Per	2.8900	28000.	81	14457	No
26	GOM_TRA_1PNPDE20041205_014658_000000402032_00375_14457_0019.N1	05-DEC-2004 01:46:58	Bright	39.500	79	26Bet Per	2.3100	13100.	79	14457	No
27	GOM_TRA_1PNPDE20041205_014903_000000382032_00375_14457_0020.N1	05-DEC-2004 01:49:03	Bright	37.500	175	39Del Per	3.0100	19400.	75	14457	No
28	GOM_TRA_1PNPDE20041205_015029_000000412032_00375_14457_0021.N1	05-DEC-2004 01:50:29	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	14457	No
29	GOM_TRA_1PNPDE20041205_015305_000000392032_00375_14457_0022.N1	05-DEC-2004 01:53:05	Bright	39.000	110	37Del Cas	2.6780	8900.0	78	14457	No
30	GOM_TRA_1PNPDE20041205_015428_000000392032_00375_14457_0023.N1	05-DEC-2004 01:54:28	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	14457	No
31	GOM_TRA_1PNPDE20041205_020036_000000362032_00375_14457_0024.N1	05-DEC-2004 02:00:36	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	14457	No
32	GOM_TRA_1PNPDE20041205_020518_000000392032_00375_14457_0000.N1	05-DEC-2004 02:05:18	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	14457	No
33	GOM_TRA_1PNPDE20041205_020654_000000482032_00375_14457_0001.N1	05-DEC-2004 02:06:54	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	14457	No
34	GOM_TRA_1PNPDE20041205_020828_000000492032_00375_14457_0002.N1	05-DEC-2004 02:08:28	Bright	49.000	82	48Bet UMa	2.3650	10600.	98	14457	No
35	GOM_TRA_1PNPDE20041205_021023_000000422032_00375_14457_0003.N1	05-DEC-2004 02:10:23	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	14457	No
36	GOM_TRA_1PNPDE20041205_021235_000000392032_00375_14457_0004.N1	05-DEC-2004 02:12:35	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	14457	No
37	GOM_TRA_1PNPDE20041205_021537_000000362032_00375_14457_0005.N1	05-DEC-2004 02:15:37	Bright	35.500	180	27Gam Boo	3.0400	8000.0	71	14457	No
38	GOM_TRA_1PNPDE20041205_021839_000000382032_00375_14457_0006.N1	05-DEC-2004 02:18:39	Bright	37.500	83		2.3780	11000.	75	14457	No
39	GOM_TRA_1PNPDE20041205_022113_000000362032_00375_14457_0007.N1	05-DEC-2004 02:21:13	Bright	36.000	3	16Alp Boo	-0.050000	4250.0	72	14457	No
40	GOM_TRA_1PNPDE20041205_022538_000000862032_00375_14457_0008.N1	05-DEC-2004 02:25:38	Bright	85.500	96	68Del Leo	2.5600	9300.0	171	14457	No
41	GOM_TRA_1PNPDE20041205_022935_000000512032_00375_14457_0009.N1	05-DEC-2004 02:29:35	Twilight	51.000	121	29Gam Vir	2.7400	7200.0	102	14457	No
42	GOM_TRA_1PNPDE20041205_023427_000000482032_00375_14457_0010.N1	05-DEC-2004 02:34:27	Twilight	47.500	163	7Del Crv	2.9450	11000.	95	14457	No
43	GOM_TRA_1PNPDE20041205_023602_000000522032_00375_14457_0011.N1	05-DEC-2004 02:36:02	Twilight	51.500	106	9Bet Crv	2.6480	5600.0	103	14457	No
44	GOM_TRA_1PNPDE20041205_023742_000000442032_00375_14457_0012.N1	05-DEC-2004 02:37:42	Twilight	44.000	123	1ot Cen	2.7500	10200.	88	14457	No
45	GOM_TRA_1PNPDE20041205_024133_000000402032_00375_14457_0013.N1	05-DEC-2004 02:41:33	Dark	39.500	77	Eps Cen	2.3030	28000.	79	14457	No
46	GOM_TRA_1PNPDE20041205_034553_000000412032_00376_14458_0000.N1	05-DEC-2004 03:45:53	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	14458	No

47	GOM_TRA_1PNPDE20041205_034730_000000462032_00376_14458_0001.N1	05-DEC-2004 03:47:30	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	14458	No
48	GOM_TRA_1PNPDE20041205_034903_000000492032_00376_14458_0002.N1	05-DEC-2004 03:49:03	Bright	49.000	82	48Bet UMa	2.3650	10600.	98	14458	No
49	GOM_TRA_1PNPDE20041205_035059_000000412032_00376_14458_0003.N1	05-DEC-2004 03:50:59	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	14458	No
50	GOM_TRA_1PNPDE20041205_035312_000000392032_00376_14458_0004.N1	05-DEC-2004 03:53:12	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	14458	No

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



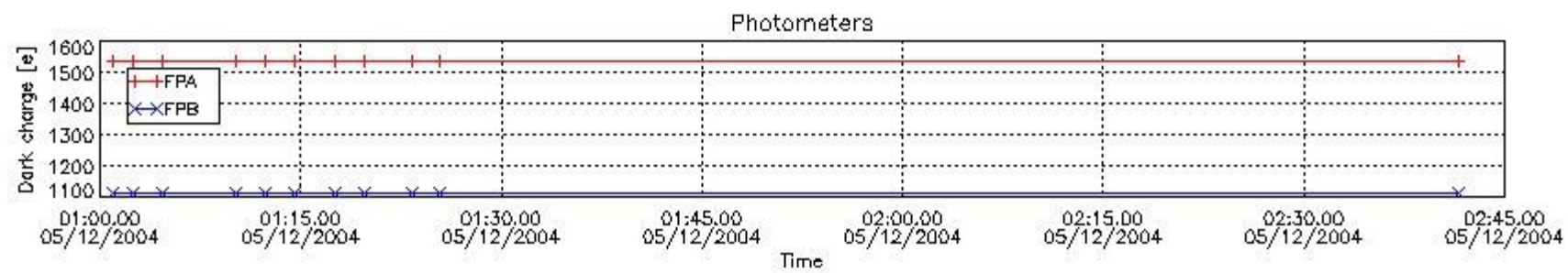
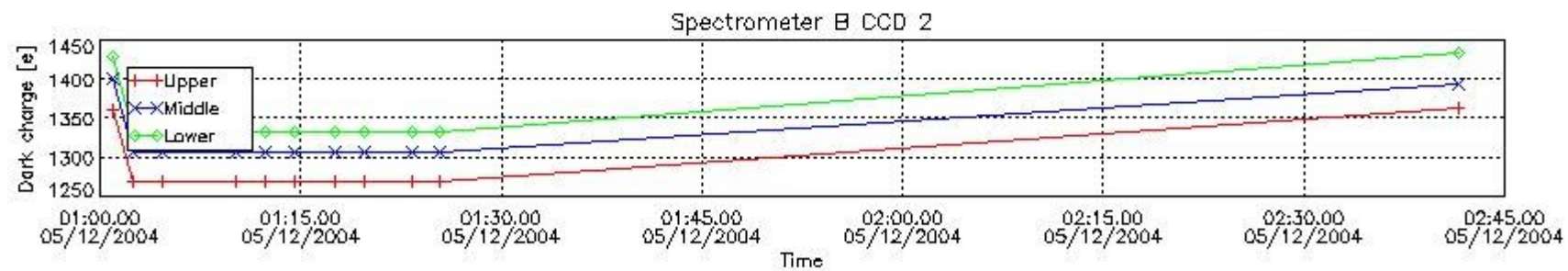
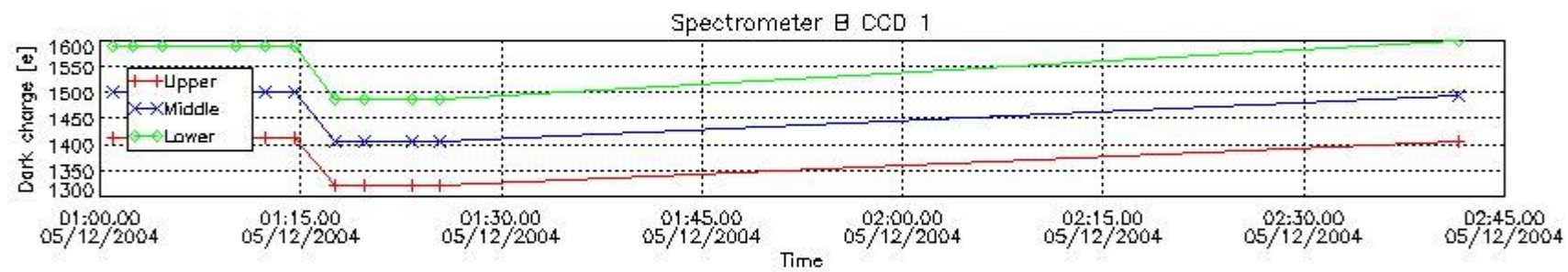
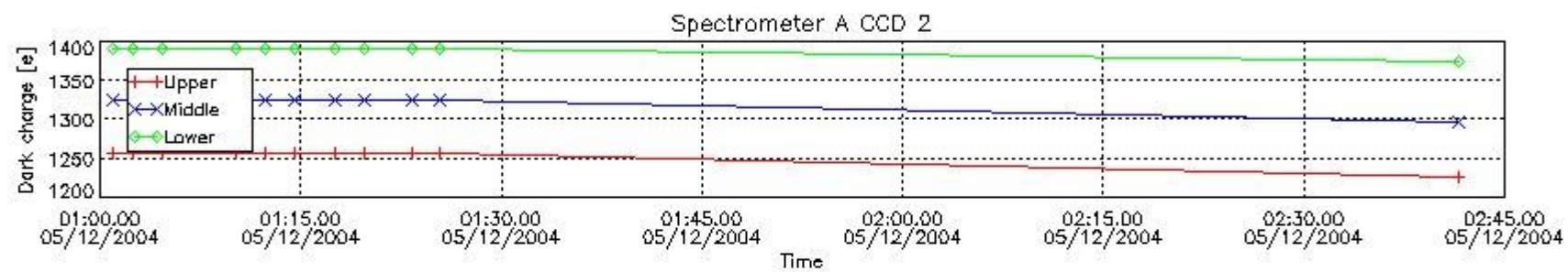
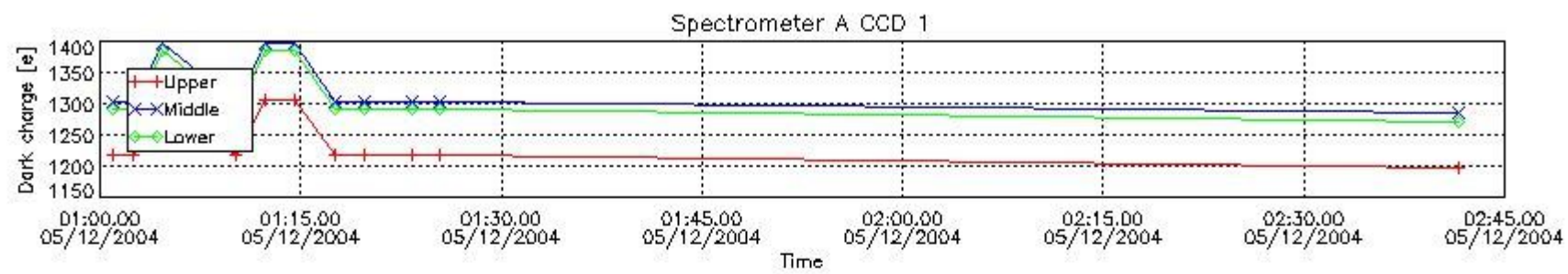
4. Overview of dark signal processing per product

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



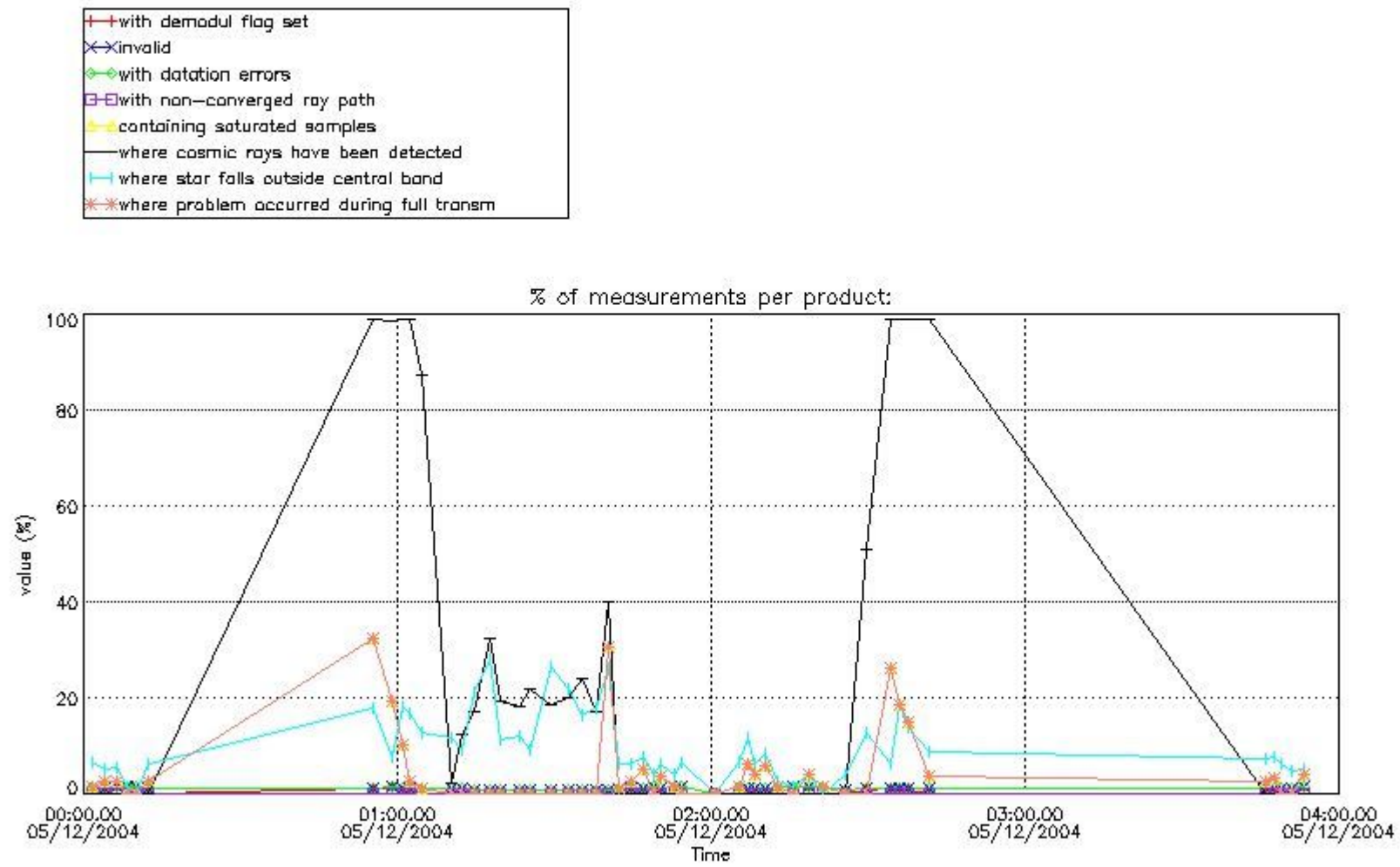
5. Demodulation flag and quality information monitoring

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.

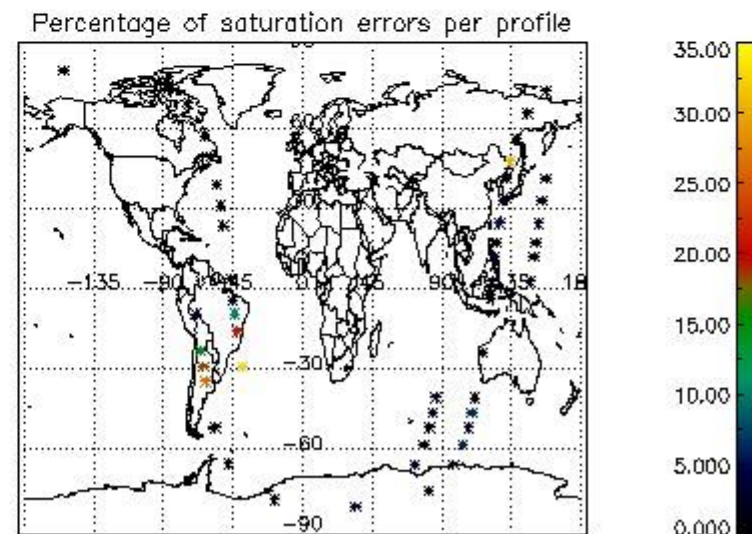
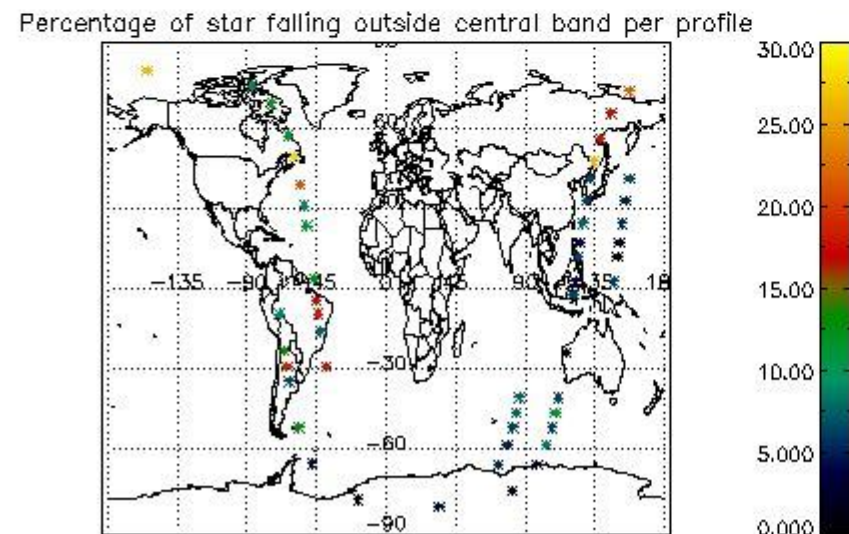
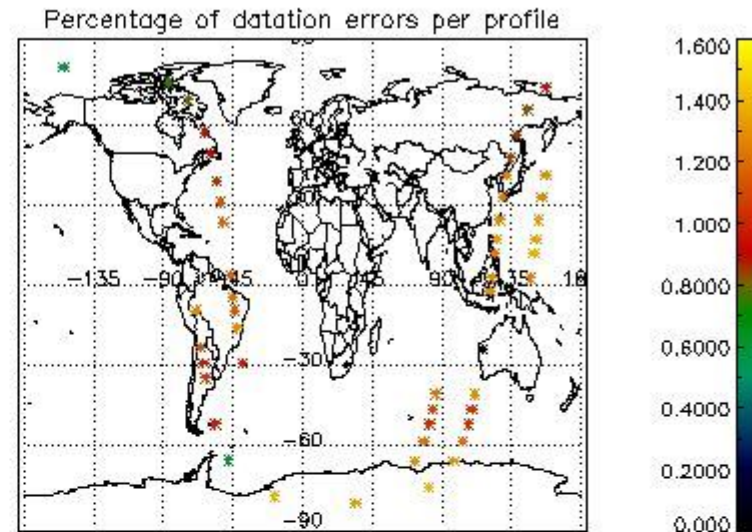
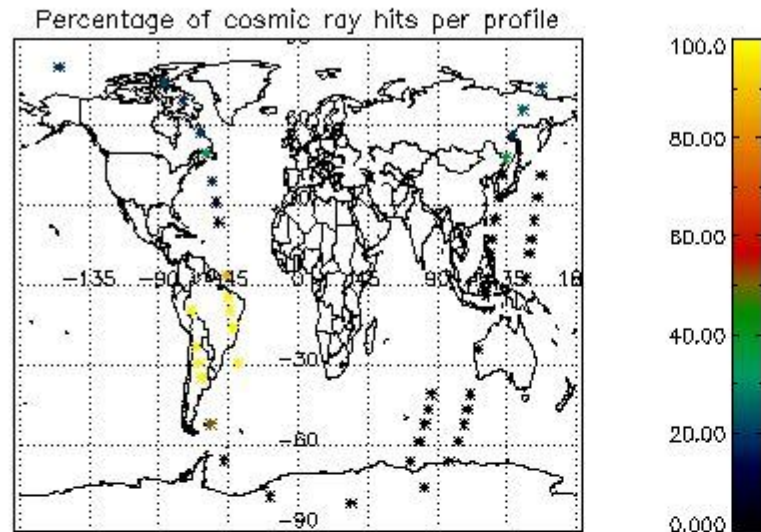
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
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)



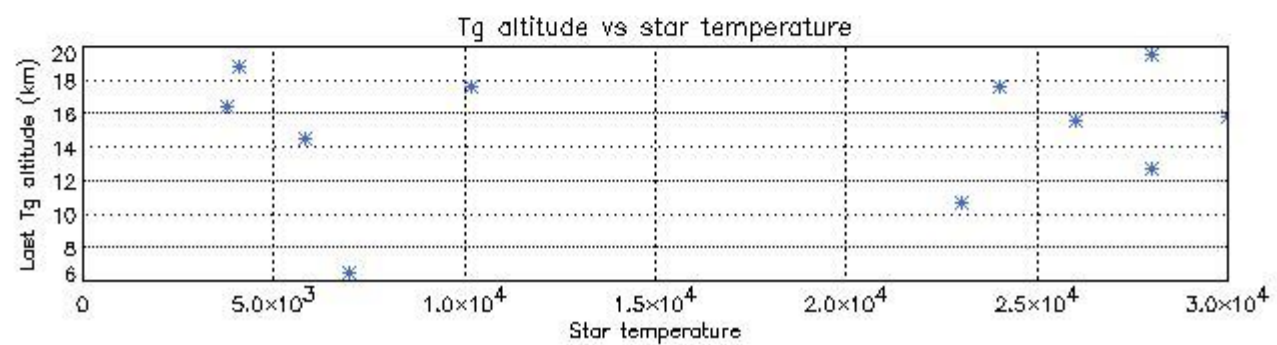
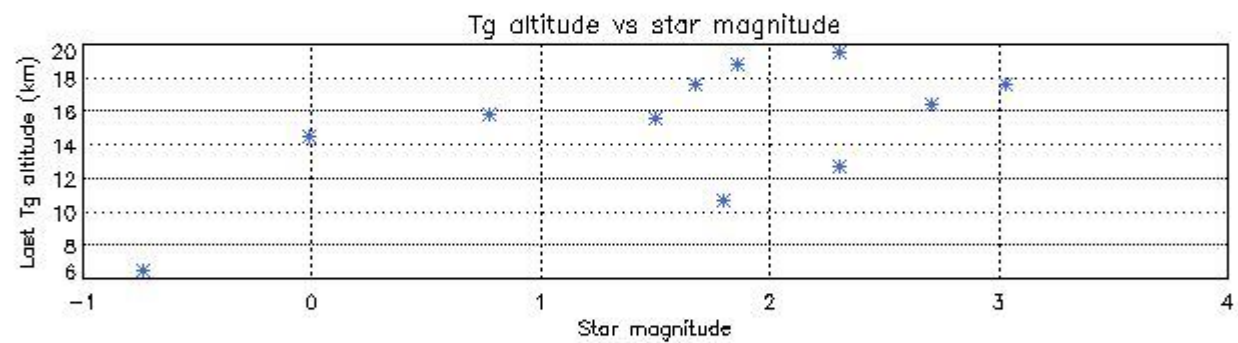
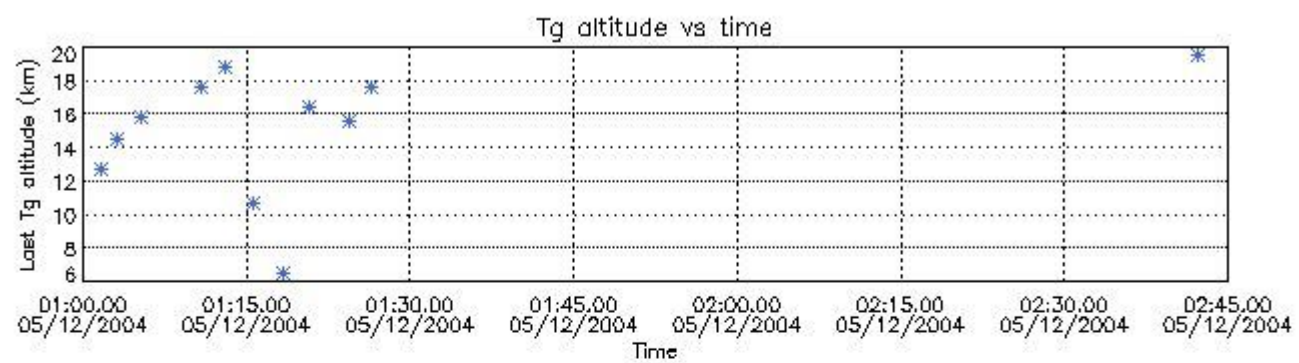
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.059	20.344	14.640
St. deviation:	3.8562	4.3499	4.1125
Maximum:	19.486	27.108	20.304
Minimum:	6.4922	7.6066	8.1378
Number of data:	11.000	32.000	7.0000

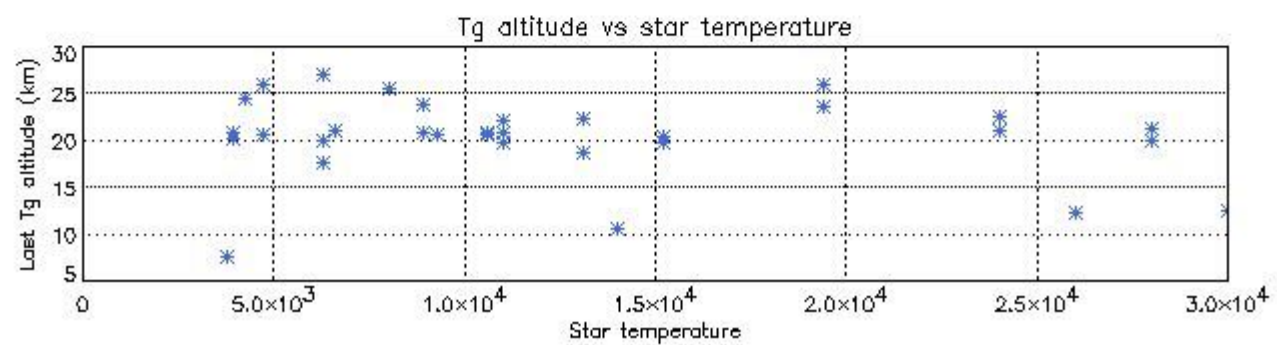
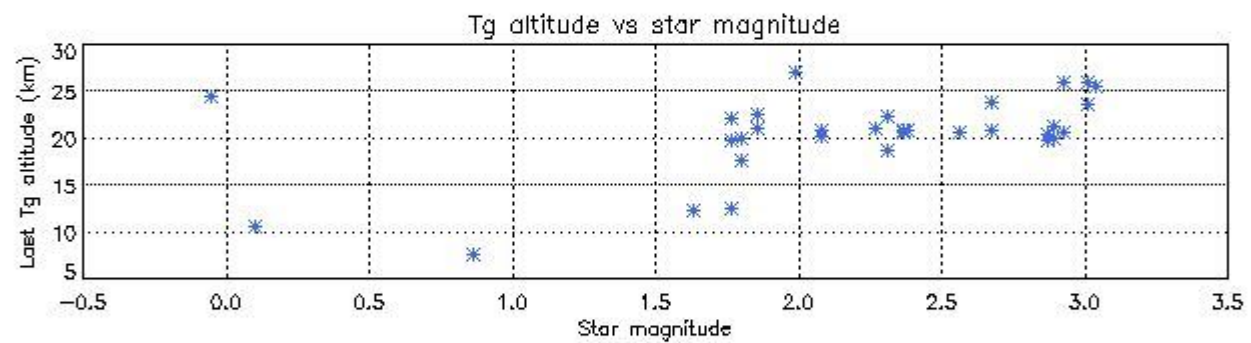
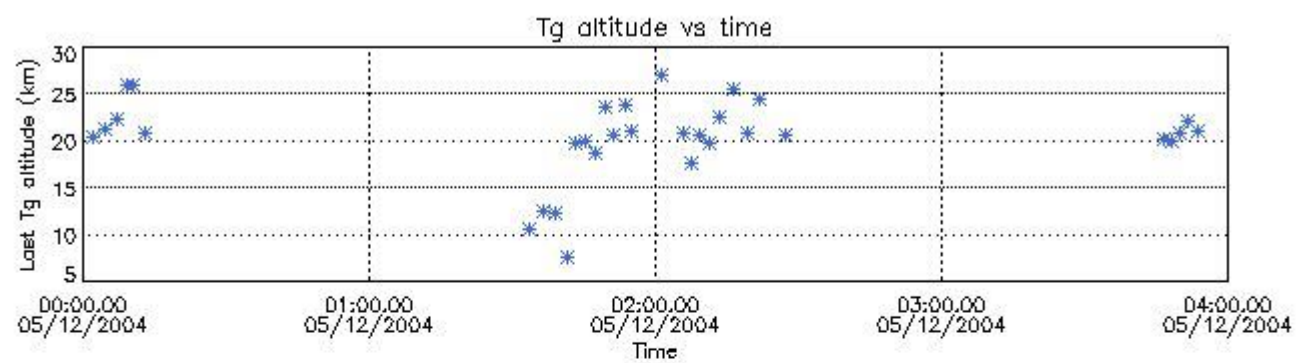
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



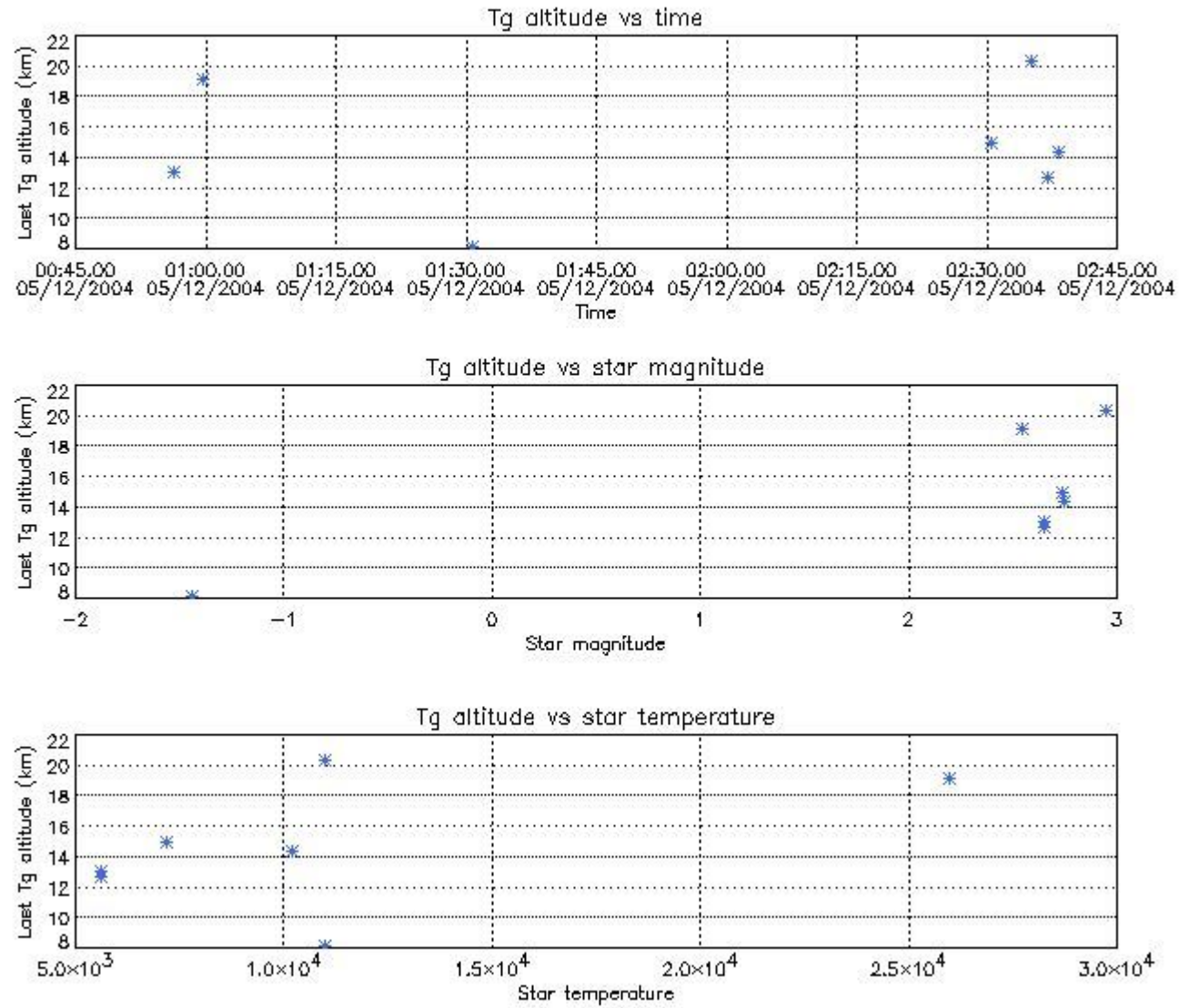
6.3 Plot for BRIGHT limb products

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

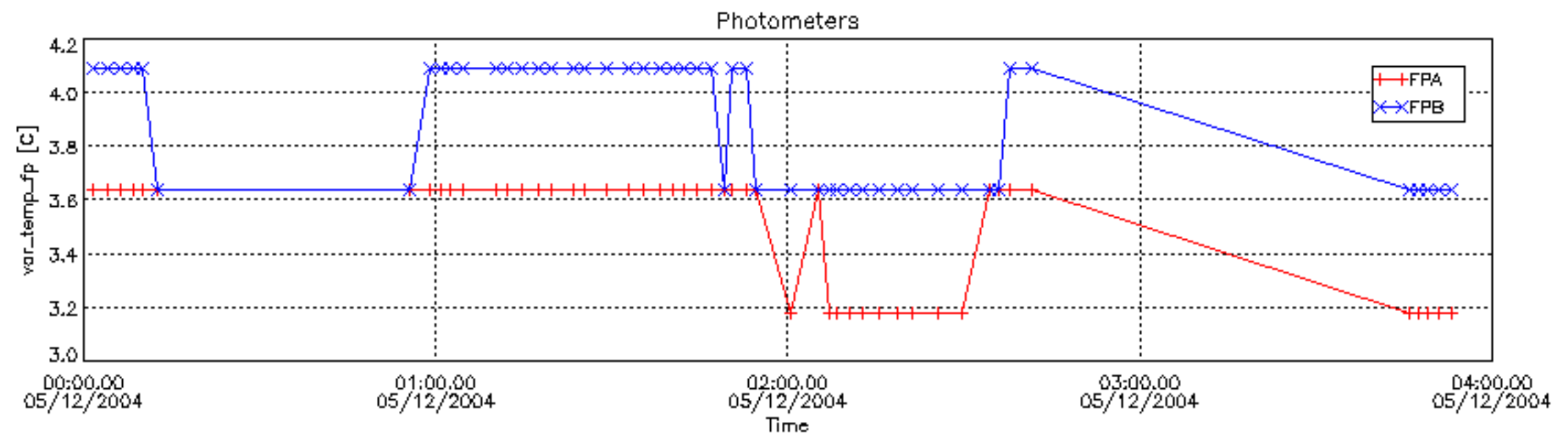
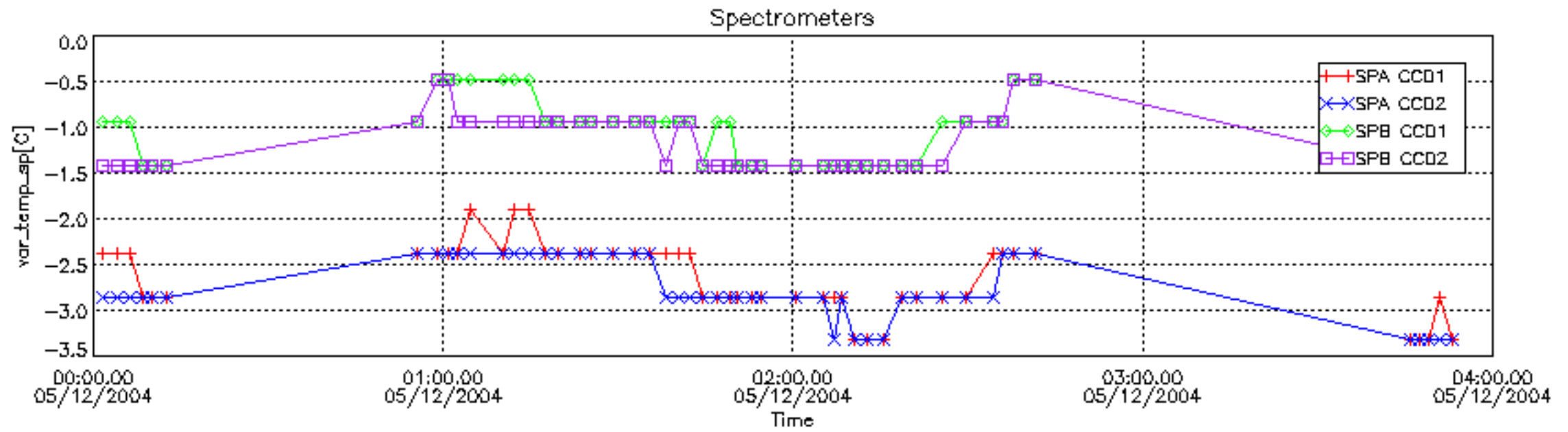
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

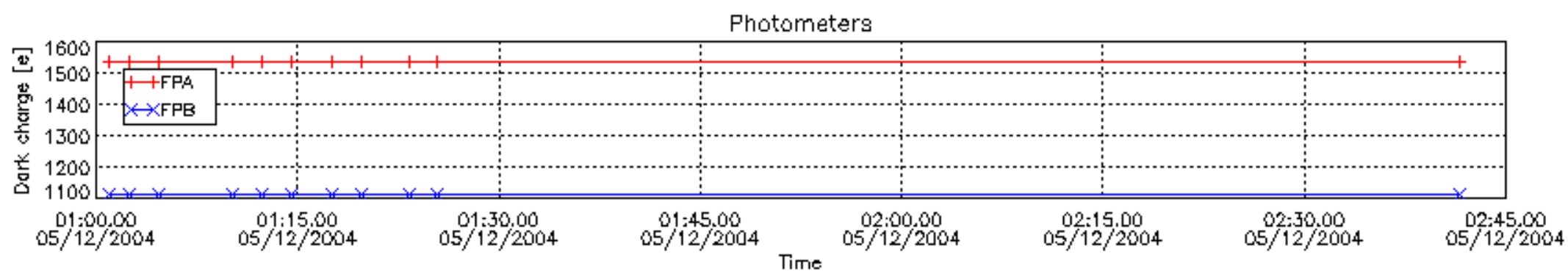
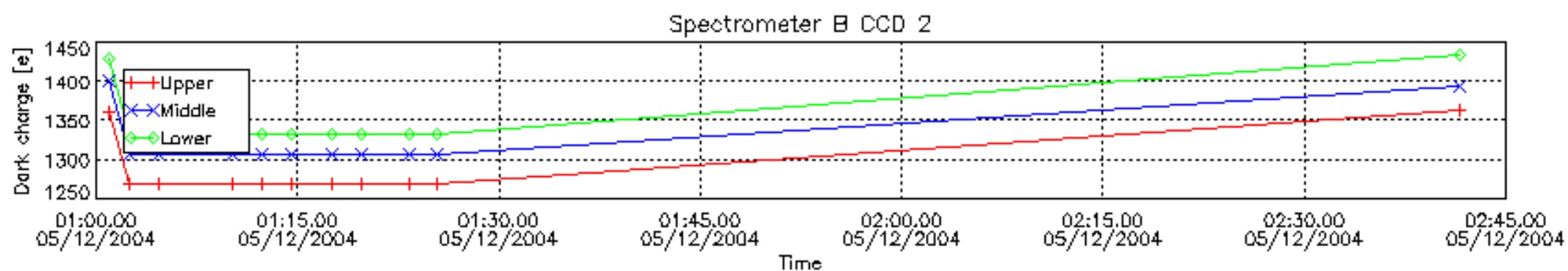
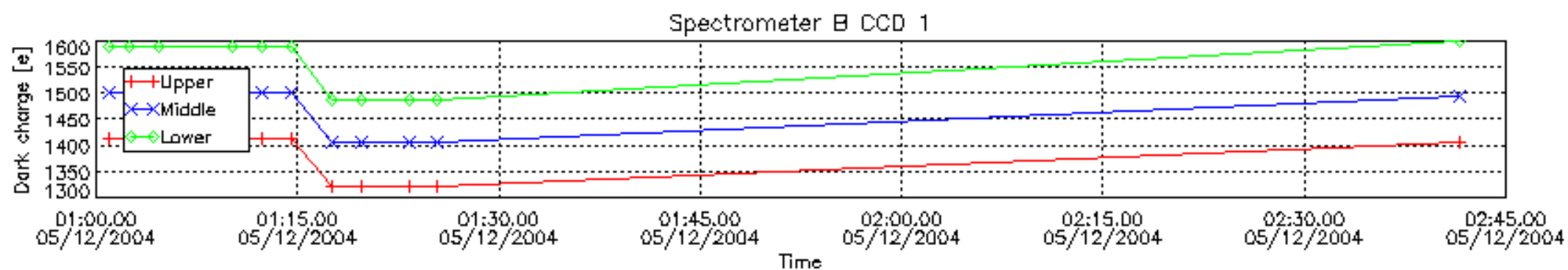
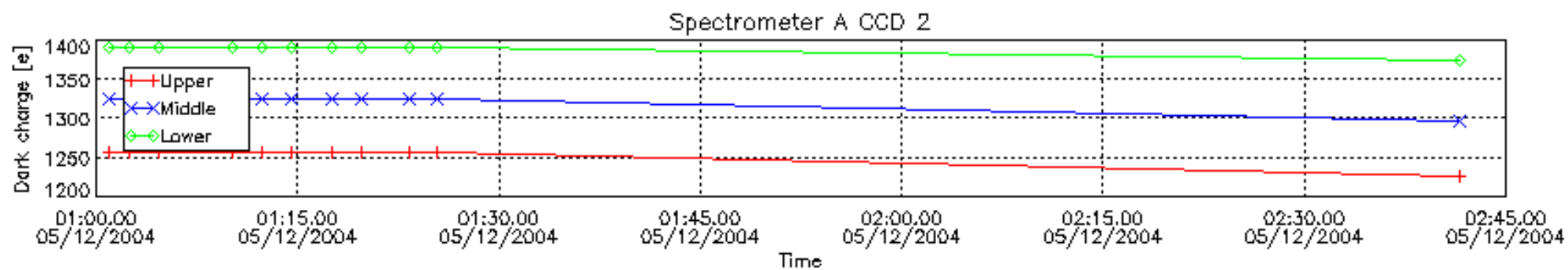
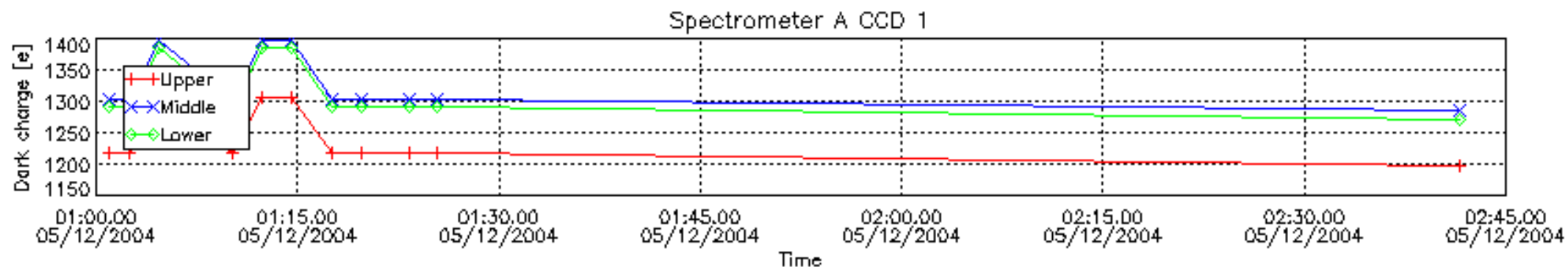
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.6	1447.4	1461.4	1447.7
St. deviation:	5.1545	6.6618	7.9289	9.5368
Maximum:	1573.0	1557.0	1513.0	1518.0
Minimum:	1426.0	1414.0	1439.0	1420.0
Number of data:	14250.	14250.	37700.	37700.

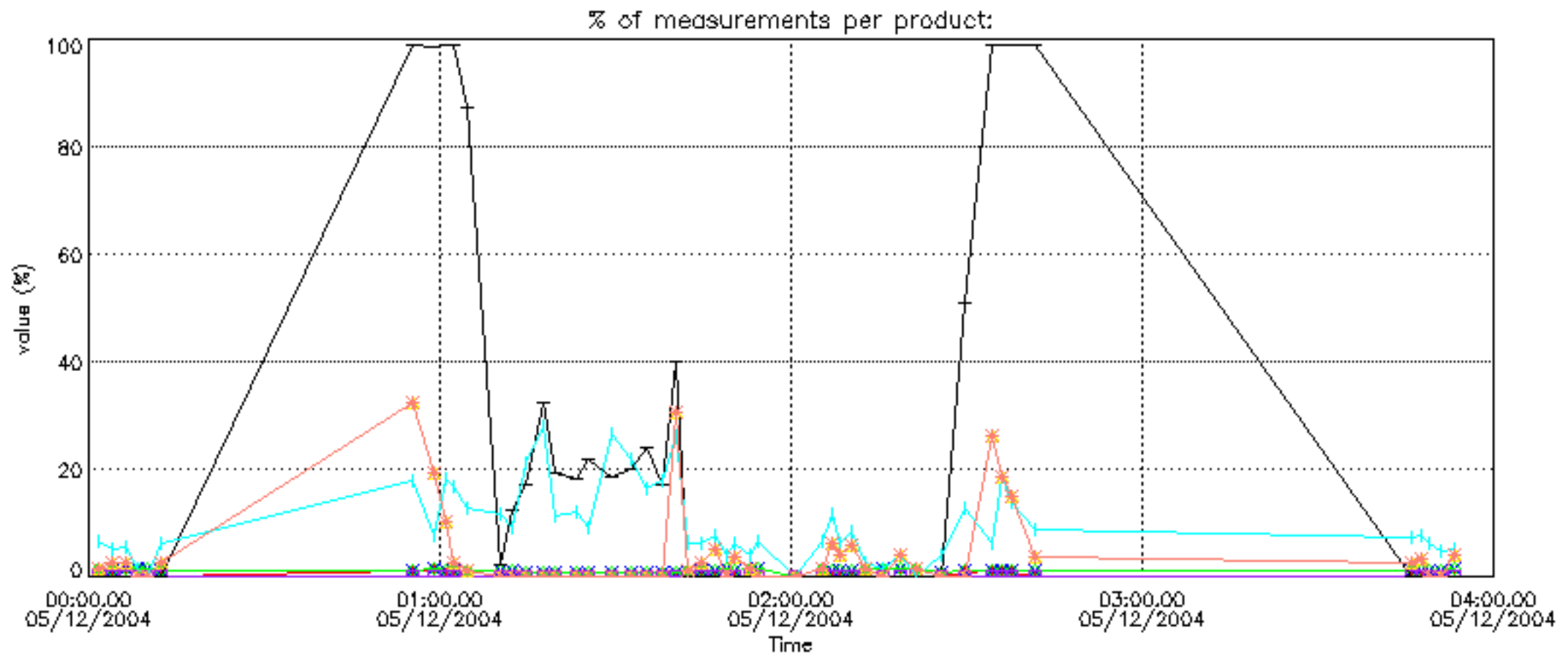
8. Auxiliary Data Files used for the production reported in section 2.2

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.

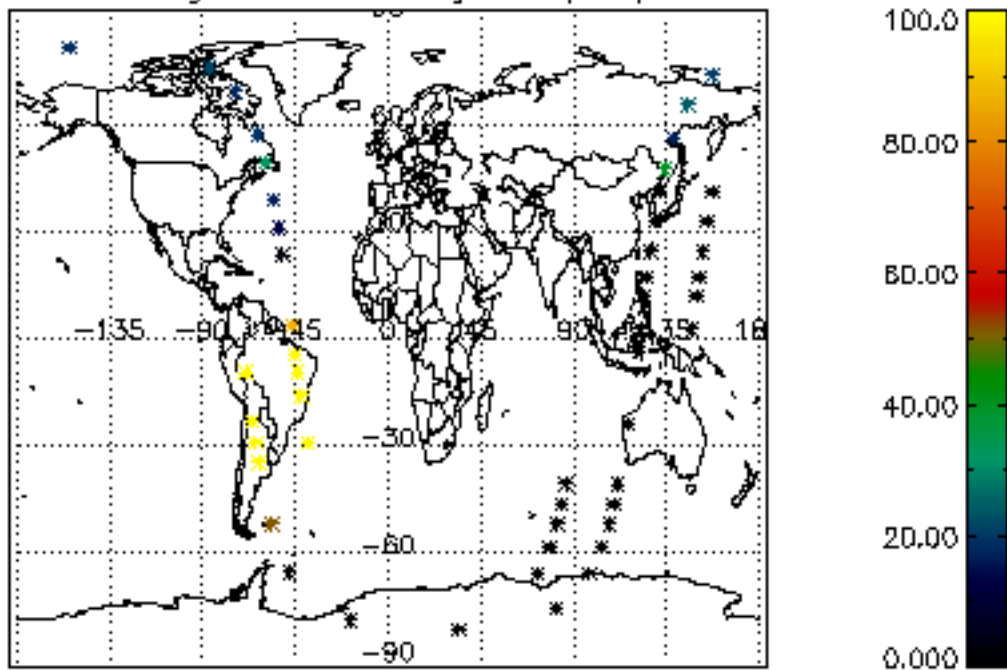
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	05-DEC-2004 00:01:40
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041129_135000_20041127_000000_20100101_000000	1	05-DEC-2004 00:01:40
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	05-DEC-2004 00:01:40
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-DEC-2004 00:01:40
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	05-DEC-2004 00:01:40
ECMWF_FILE	AUX_ECF_AXNECM20041204_060636_20041204_210000_20041205_090000	1	05-DEC-2004 00:01:40
ECMWF_FILE	AUX_ECF_AXNECM20041204_192544_20041205_030000_20041205_150000	46	05-DEC-2004 03:45:53
OPTIONAL_ECMWF_FILE	NOT USED	1	05-DEC-2004 00:01:40
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041204_231531_20041204_182113_20041214_212801	1	05-DEC-2004 00:01:40



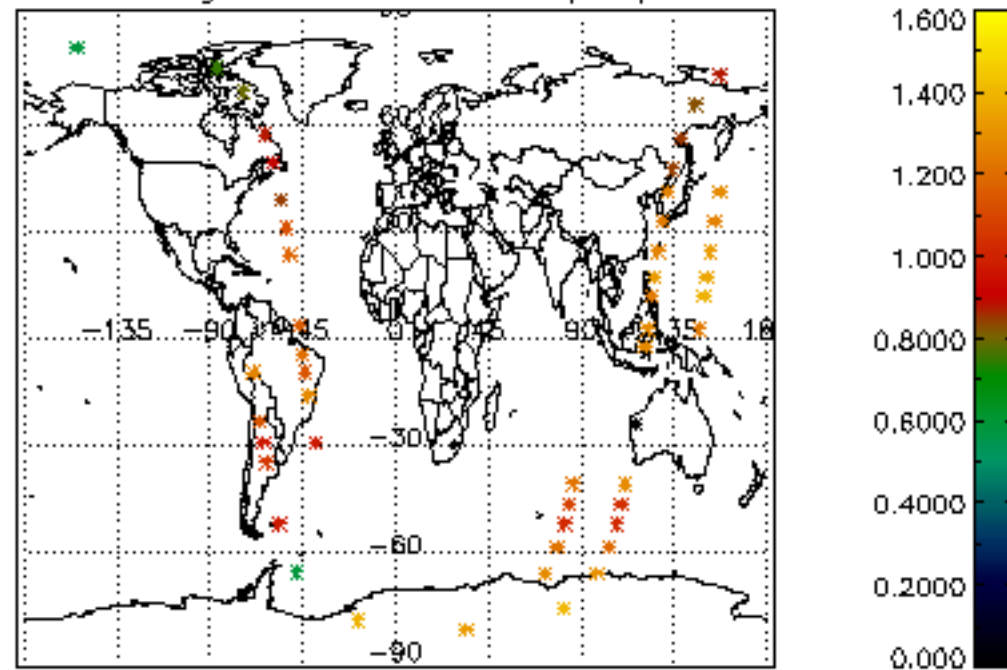




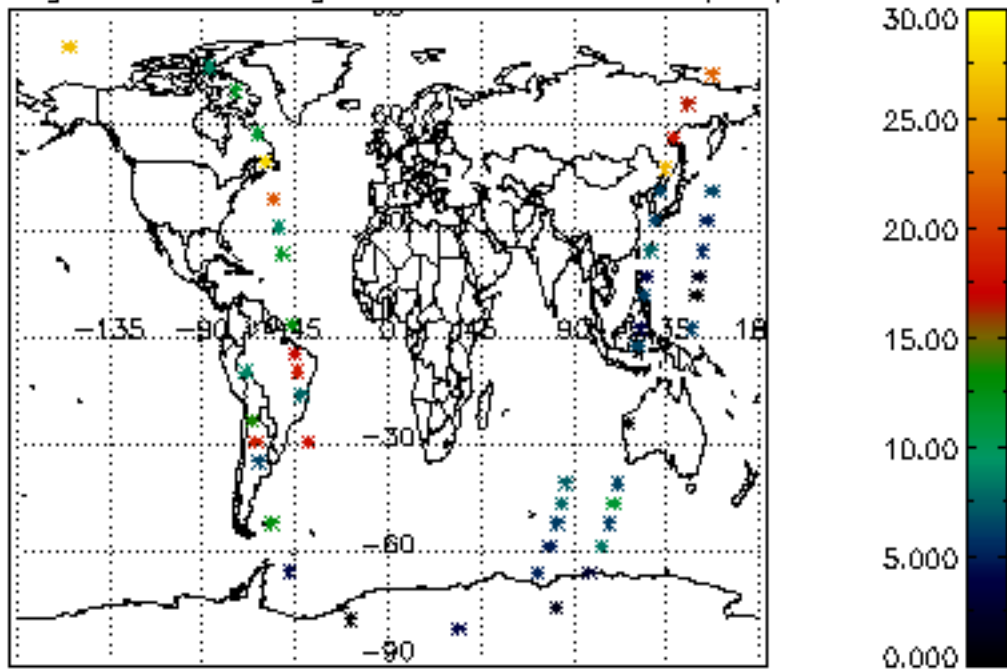
Percentage of cosmic ray hits per profile



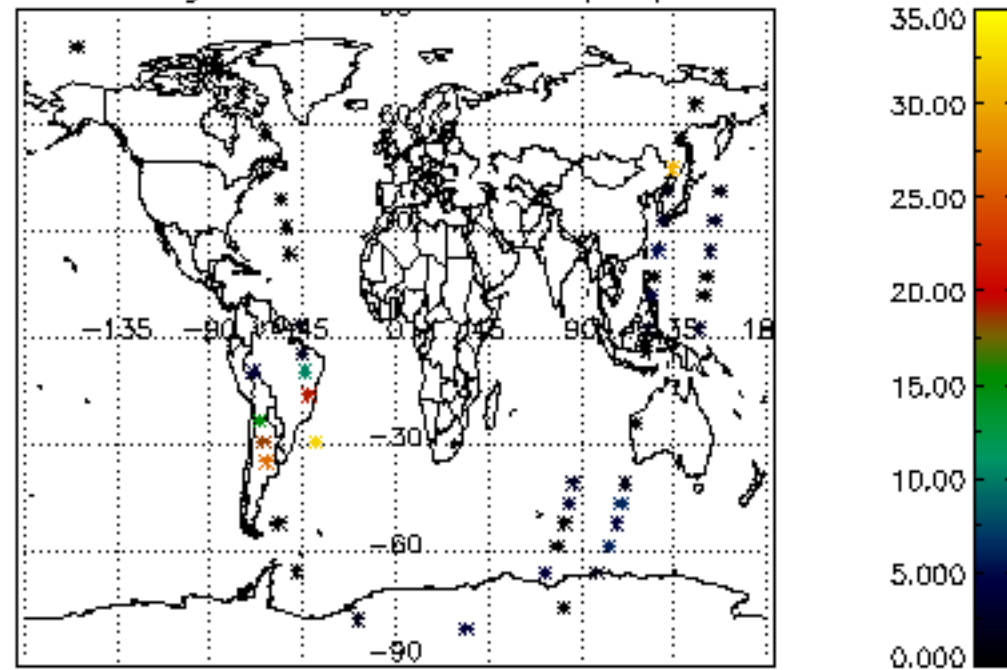
Percentage of datation errors per profile



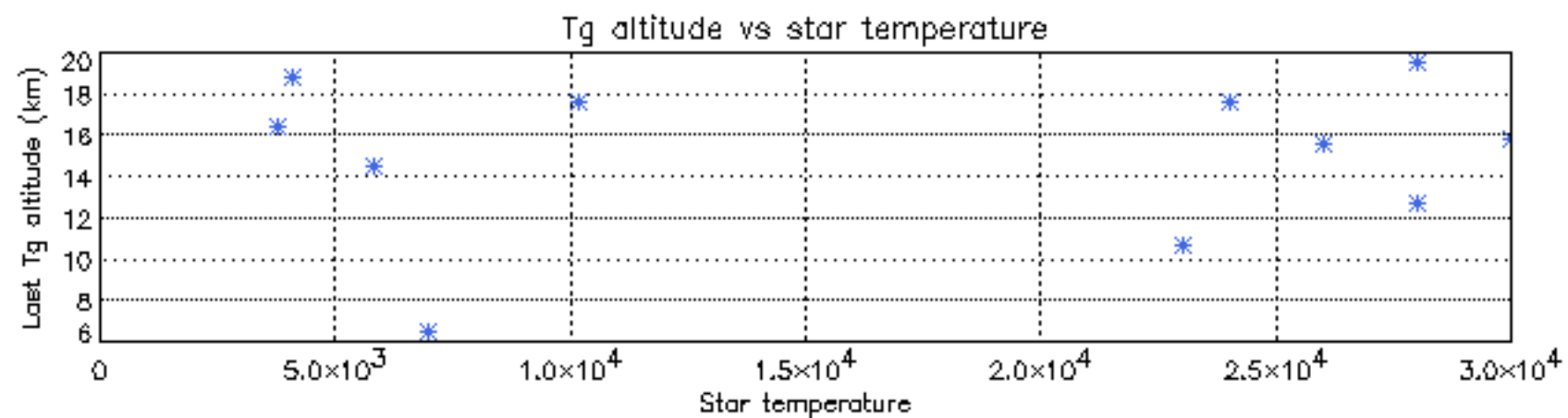
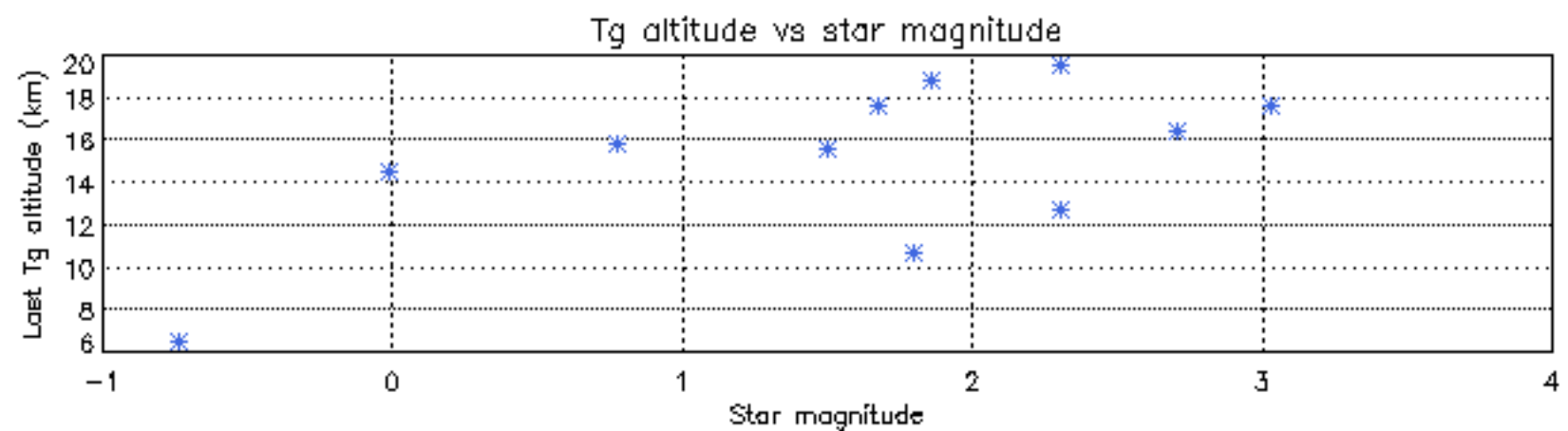
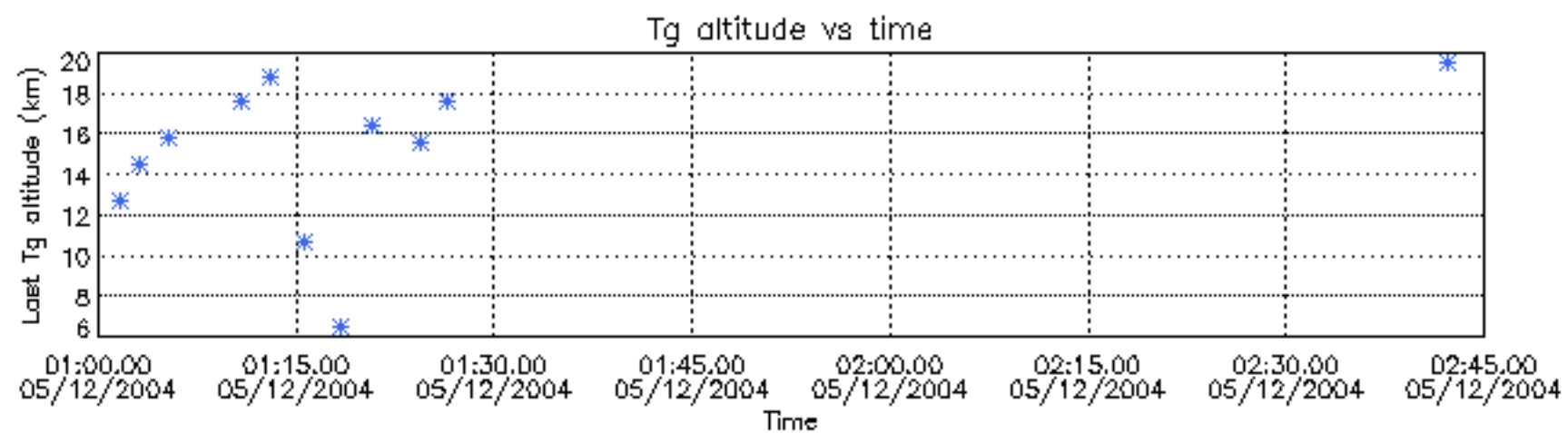
Percentage of star falling outside central band per profile



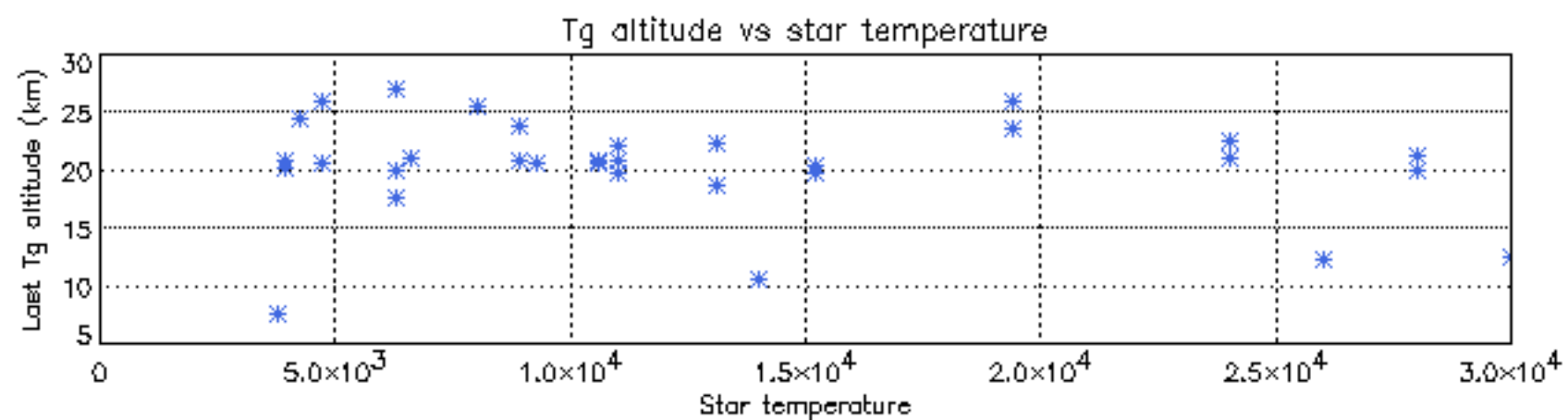
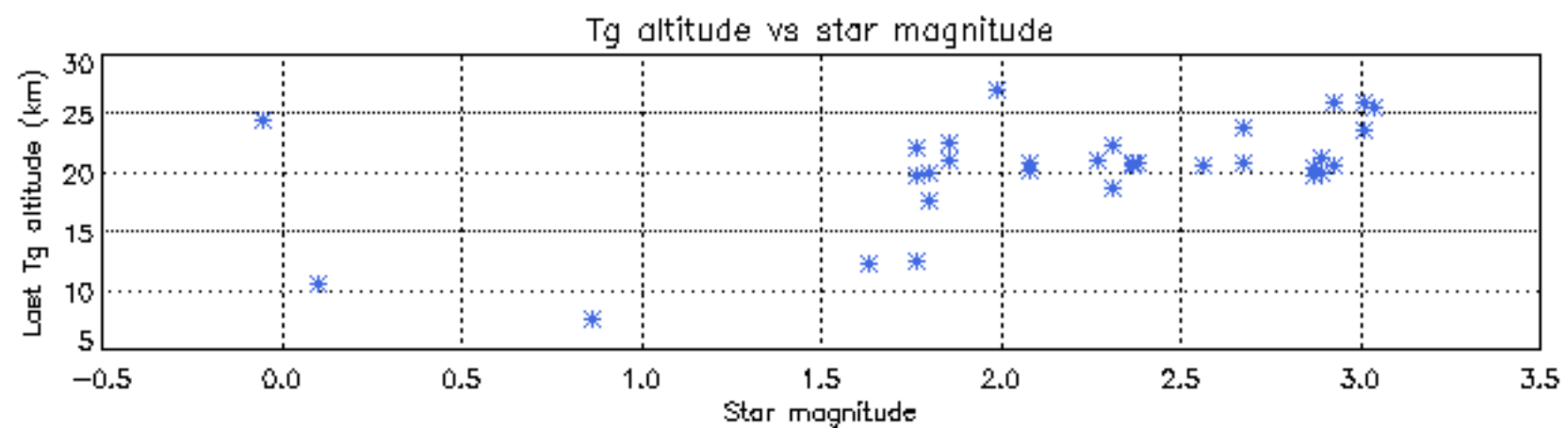
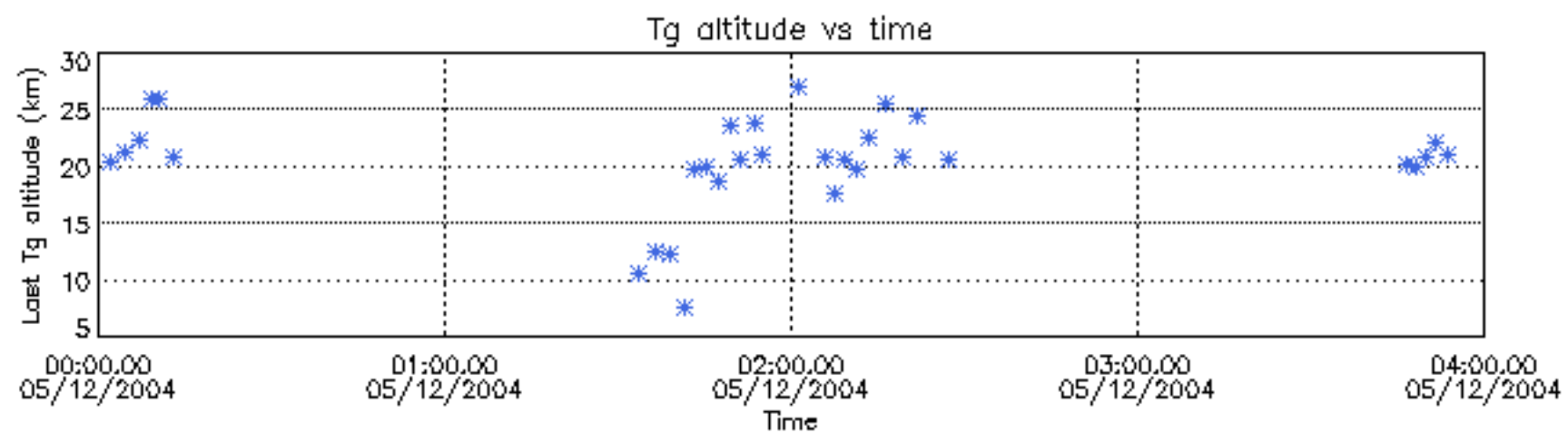
Percentage of saturation errors per profile



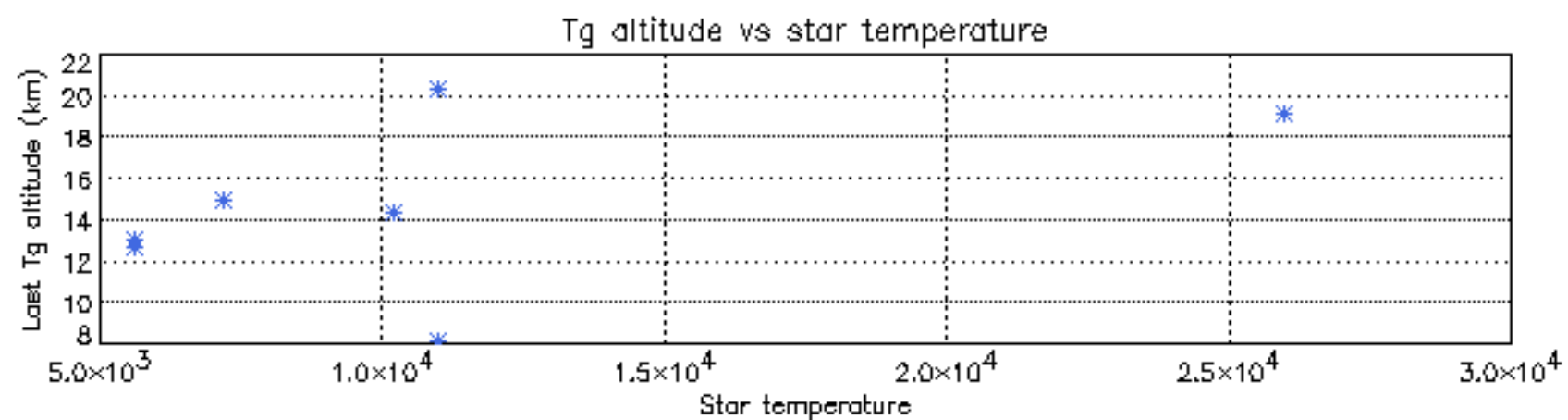
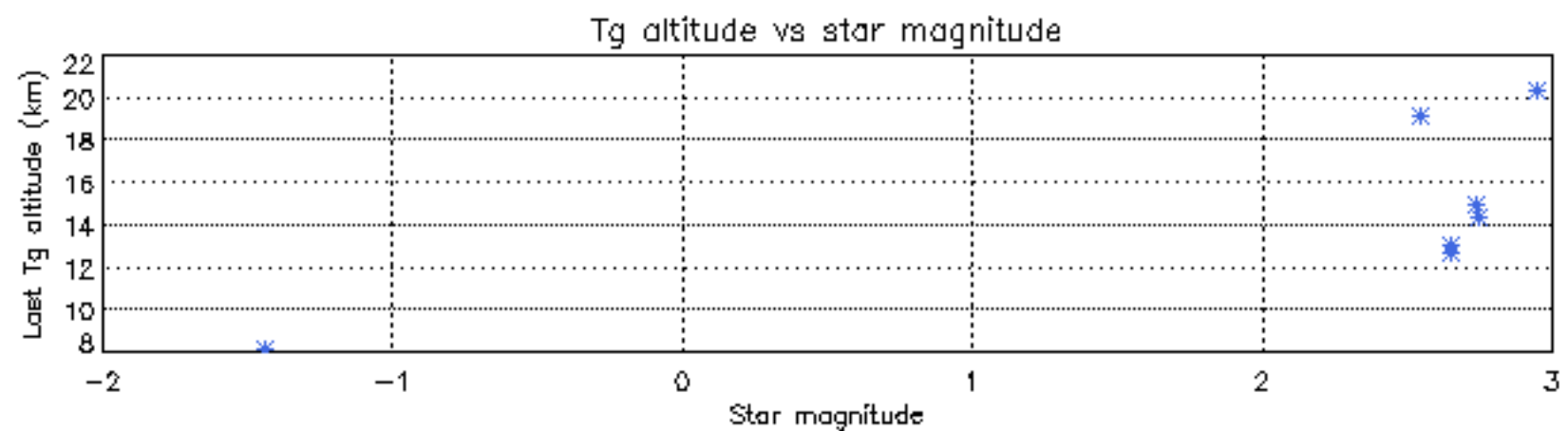
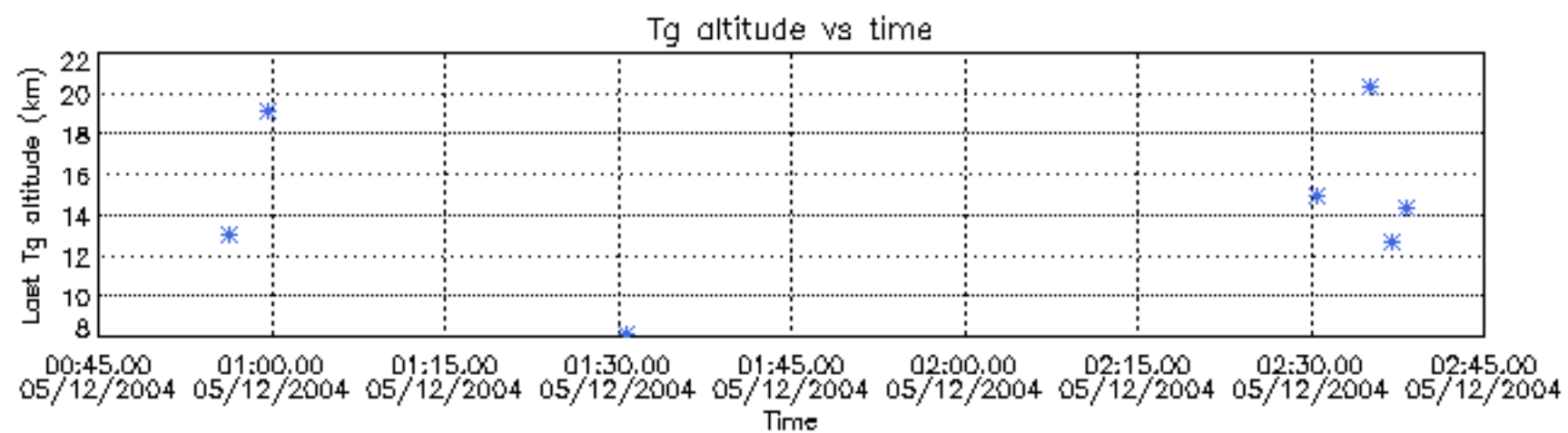
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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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
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26; 2815.6; 01-DEC-2004 22:23:36; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;14412
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29; 3698.1; 01-DEC-2004 22:38:19; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;14412
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31; 3909.5; 01-DEC-2004 22:41:50; Bright; 49.5; 82; 48Bet UMA ; 2.37; 10600;occ; 99; 0;14412
32; 4011.0; 01-DEC-2004 22:43:32; Bright; 41.0; 32; 77Eps UMA ; 1.76; 11000;occ; 82; 0;14412
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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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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
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8;	273.8;	01-DEC-2004	23:21:50;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	14413
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11;	619.3;	01-DEC-2004	23:27:36;	Dark	;	51.5;	34;	Gam2Vel	;	1.79;	23000;occ;	103;	0;	14413
12;	814.2;	01-DEC-2004	23:30:51;	Dark	;	58.0;	2;	Alp Car	;	-0.74;	7000;occ;	116;	0;	14413
13;	929.6;	01-DEC-2004	23:32:46;	Dark	;	63.5;	117;	Pi Pup	;	2.71;	3800;occ;	127;	0;	14413
14;	1155.2;	01-DEC-2004	23:36:32;	Dark	;	73.0;	23;	21Eps CMA	;	1.50;	26000;occ;	146;	0;	14413
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16;	1531.1;	01-DEC-2004	23:42:48;	Dark	;	92.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	184;	0;	14413
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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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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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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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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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