

GOMOS Daily Report 20-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	22DEC2004 05:03:56

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (20DEC2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (21DEC2004 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)

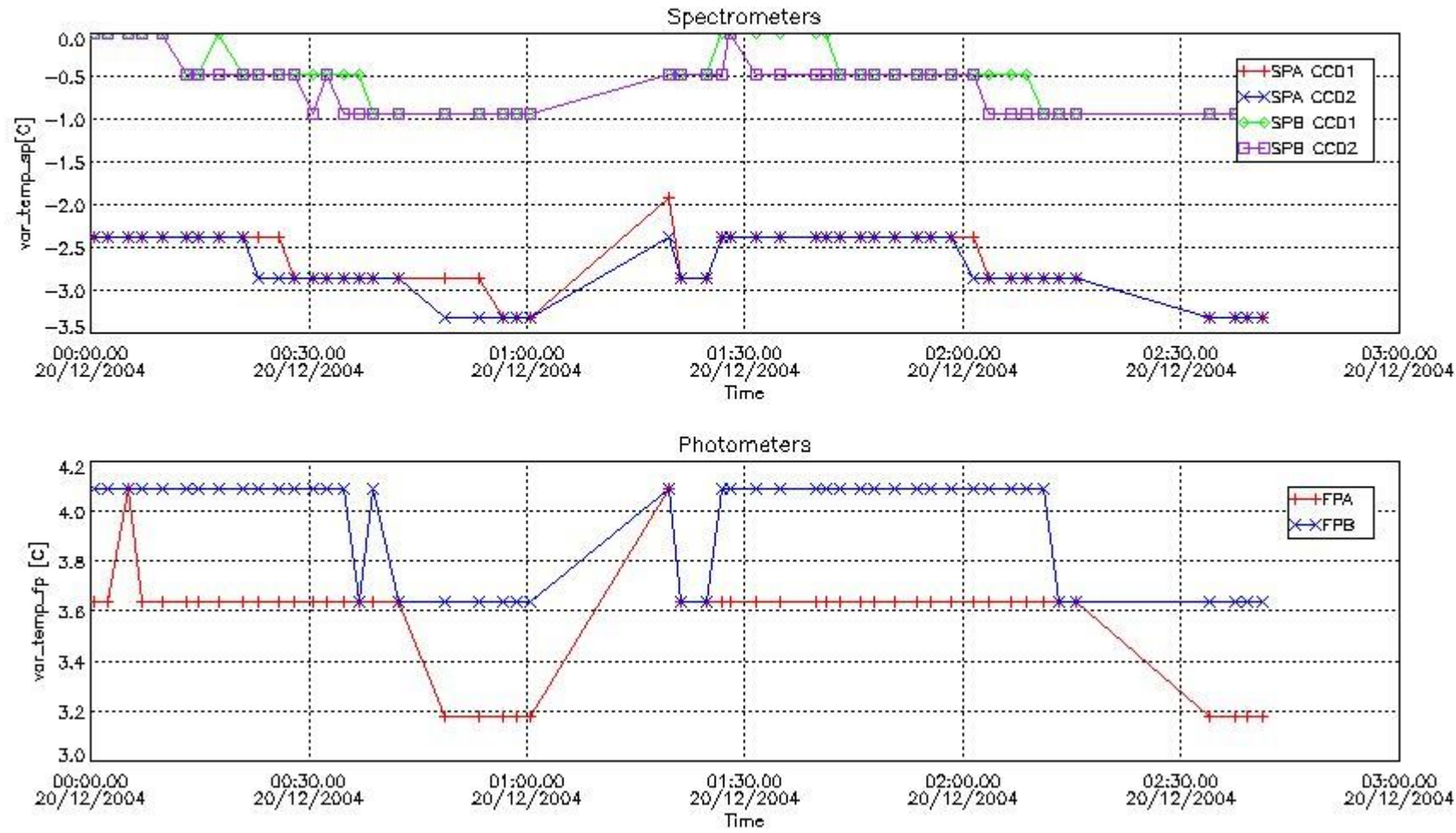
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20041220_000032_000000472033_00088_14671_0007.N1	20-DEC-2004 00:00:32	Dark	46.500	71	Iot Car	2.2460	7700.0	93	14671	No
2	GOM_TRA_1PNPDE20041220_000222_000000452033_00088_14671_0008.N1	20-DEC-2004 00:02:22	Dark	45.000	41	Eps Car	1.8600	4100.0	90	14671	No
3	GOM_TRA_1PNPDE20041220_000516_000000572033_00088_14671_0009.N1	20-DEC-2004 00:05:16	Dark	57.000	34	Gam2Vel	1.7930	23000.	114	14671	No
4	GOM_TRA_1PNPDE20041220_000707_000000542033_00088_14671_0010.N1	20-DEC-2004 00:07:07	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	14671	No
5	GOM_TRA_1PNPDE20041220_000959_000000582033_00088_14671_0011.N1	20-DEC-2004 00:09:59	Dark	57.500	117	Pi Pup	2.7060	3800.0	115	14671	No
6	GOM_TRA_1PNPDE20041220_001307_000000552033_00088_14671_0012.N1	20-DEC-2004 00:13:07	Dark	55.000	23	21Eps CMa	1.5020	26000.	110	14671	No
7	GOM_TRA_1PNPDE20041220_001451_000000562033_00088_14671_0013.N1	20-DEC-2004 00:14:51	Dark	55.500	179	24Omi2CMa	3.0320	24000.	111	14671	No
8	GOM_TRA_1PNPDE20041220_001742_000000682033_00088_14671_0014.N1	20-DEC-2004 00:17:42	Twilight	67.500	1	9Alp CMa	-1.4400	11000.	135	14671	No
9	GOM_TRA_1PNPDE20041220_002053_000000512033_00088_14671_0015.N1	20-DEC-2004 00:20:53	Bright	51.000	7	19Bet Ori	0.10000	14000.	102	14671	No
10	GOM_TRA_1PNPDE20041220_002300_000000512033_00088_14671_0016.N1	20-DEC-2004 00:23:00	Bright	50.500	30	46Eps Ori	1.6940	30000.	101	14671	No
11	GOM_TRA_1PNPDE20041220_002557_000000572033_00088_14671_0017.N1	20-DEC-2004 00:25:57	Bright	57.000	14	58Alp Ori	0.87000	3000.0	114	14671	No
12	GOM_TRA_1PNPDE20041220_002806_000000512033_00088_14671_0018.N1	20-DEC-2004 00:28:06	Bright	51.000	13	87Alp Tau	0.86700	3800.0	102	14671	No
13	GOM_TRA_1PNPDE20041220_003028_000000372033_00088_14671_0019.N1	20-DEC-2004 00:30:28	Bright	37.000	146	25Eta Tau	2.8730	15200.	74	14671	No
14	GOM_TRA_1PNPDE20041220_003234_000000382033_00088_14671_0020.N1	20-DEC-2004 00:32:34	Bright	37.500	150	44Zet Per	2.8900	28000.	75	14671	No
15	GOM_TRA_1PNPDE20041220_003447_000000402033_00088_14671_0021.N1	20-DEC-2004 00:34:47	Bright	39.500	149	45Eps Per	2.8880	30000.	79	14671	No
16	GOM_TRA_1PNPDE20041220_003701_000000382033_00088_14671_0022.N1	20-DEC-2004 00:37:01	Bright	38.000	175	39Del Per	3.0100	19400.	76	14671	No
17	GOM_TRA_1PNPDE20041220_003853_000000392033_00088_14671_0023.N1	20-DEC-2004 00:38:53	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	14671	No
18	GOM_TRA_1PNPDE20041220_004221_000000352033_00088_14671_0024.N1	20-DEC-2004 00:42:21	Bright	35.000	110	37Del Cas	2.6780	8900.0	70	14671	No
19	GOM_TRA_1PNPDE20041220_004842_000000392033_00088_14671_0025.N1	20-DEC-2004 00:48:42	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	14671	No
20	GOM_TRA_1PNPDE20041220_005323_000000402033_00088_14671_0026.N1	20-DEC-2004 00:53:23	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	14671	No
21	GOM_TRA_1PNPDE20041220_005646_000000412033_00088_14671_0027.N1	20-DEC-2004 00:56:46	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	14671	No
22	GOM_TRA_1PNPDE20041220_005832_000000442033_00088_14671_0028.N1	20-DEC-2004 00:58:32	Bright	43.500	55	79Zet UMa	2.0600	10200.	87	14671	No
23	GOM_TRA_1PNPDE20041220_010033_000000432033_00088_14671_0029.N1	20-DEC-2004 01:00:33	Bright	42.500	39	85Eta UMa	1.8540	24000.	85	14671	No
24	GOM_TRA_1PNPDE20041220_011933_000000532033_00088_14671_0000.N1	20-DEC-2004 01:19:33	Twilight	53.000	122	9Alp2Lib	2.7470	9700.0	106	14671	Yes
25	GOM_TRA_1PNPDE20041220_012116_000000552033_00088_14671_0001.N1	20-DEC-2004 01:21:16	Twilight	54.500	15	67Alp Vir	0.97600	28000.	109	14671	No
26	GOM_TRA_1PNPDE20041220_012447_000000502033_00088_14671_0002.N1	20-DEC-2004 01:24:47	Twilight	49.500	169	46Gam Hya	2.9910	4700.0	99	14671	No
27	GOM_TRA_1PNPDE20041220_012648_000000422033_00088_14671_0003.N1	20-DEC-2004 01:26:48	Twilight	42.000	81	Eta Cen	2.3560	28000.	84	14671	No
28	GOM_TRA_1PNPDE20041220_012801_000000392033_00088_14671_0004.N1	20-DEC-2004 01:28:01	Twilight	39.000	78	Alp Lup	2.3040	28000.	78	14671	No
29	GOM_TRA_1PNPDE20041220_013131_000000452033_00088_14671_0005.N1	20-DEC-2004 01:31:31	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	14671	No
30	GOM_TRA_1PNPDE20041220_013445_000000442033_00089_14672_0006.N1	20-DEC-2004 01:34:45	Dark	43.500	12	Alp1Cru	0.77500	30000.	87	14672	No
31	GOM_TRA_1PNPDE20041220_013943_000000412033_00089_14672_0007.N1	20-DEC-2004 01:39:43	Dark	41.000	159	Ups Car	2.9200	7200.0	82	14672	No
32	GOM_TRA_1PNPDE20041220_014111_000000472033_00089_14672_0008.N1	20-DEC-2004 01:41:11	Dark	47.000	71	Iot Car	2.2460	7700.0	94	14672	No
33	GOM_TRA_1PNPDE20041220_014300_000000492033_00089_14672_0009.N1	20-DEC-2004 01:43:00	Dark	49.000	41	Eps Car	1.8600	4100.0	98	14672	No
34	GOM_TRA_1PNPDE20041220_014555_000000512033_00089_14672_0010.N1	20-DEC-2004 01:45:55	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	14672	No
35	GOM_TRA_1PNPDE20041220_014744_000000472033_00089_14672_0011.N1	20-DEC-2004 01:47:44	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	14672	No
36	GOM_TRA_1PNPDE20041220_015037_000000542033_00089_14672_0012.N1	20-DEC-2004 01:50:37	Dark	54.000	117	Pi Pup	2.7060	3800.0	108	14672	No
37	GOM_TRA_1PNPDE20041220_015344_000000542033_00089_14672_0013.N1	20-DEC-2004 01:53:44	Dark	54.000	23	21Eps CMa	1.5020	26000.	108	14672	No
38	GOM_TRA_1PNPDE20041220_015528_000000522033_00089_14672_0014.N1	20-DEC-2004 01:55:28	Dark	52.000	179	24Omi2CMa	3.0320	24000.	104	14672	No
39	GOM_TRA_1PNPDE20041220_015819_000000682033_00089_14672_0015.N1	20-DEC-2004 01:58:19	Twilight	67.500	1	9Alp CMa	-1.4400	11000.	135	14672	No
40	GOM_TRA_1PNPDE20041220_020129_000000542033_00089_14672_0016.N1	20-DEC-2004 02:01:29	Bright	53.500	7	19Bet Ori	0.10000	14000.	107	14672	No
41	GOM_TRA_1PNPDE20041220_020336_000000492033_00089_14672_0017.N1	20-DEC-2004 02:03:36	Bright	49.000	30	46Eps Ori	1.6940	30000.	98	14672	No
42	GOM_TRA_1PNPDE20041220_020633_000000622033_00089_14672_0018.N1	20-DEC-2004 02:06:33	Bright	61.500	14	58Alp Ori	0.87000	3000.0	123	14672	No
43	GOM_TRA_1PNPDE20041220_020845_000000502033_00089_14672_0019.N1	20-DEC-2004 02:08:45	Bright	50.000	13	87Alp Tau	0.86700	3800.0	100	14672	No
44	GOM_TRA_1PNPDE20041220_021105_000000392033_00089_14672_0020.N1	20-DEC-2004 02:11:05	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	14672	No
45	GOM_TRA_1PNPDE20041220_021311_000000382033_00089_14672_0021.N1	20-DEC-2004 02:13:11	Bright	38.000	150	44Zet Per	2.8900	28000.	76	14672	No
46	GOM_TRA_1PNPDE20041220_021525_000000382033_00089_14672_0022.N1	20-DEC-2004 02:15:25	Bright	38.000	149	45Eps Per	2.8880	30000.	76	14672	No

47	GOM_TRA_1PNPDE20041220_023359_000000402033_00089_14672_0000.N1	20-DEC-2004 02:33:59	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	14672	No
48	GOM_TRA_1PNPDE20041220_023724_000000382033_00089_14672_0001.N1	20-DEC-2004 02:37:24	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	14672	No
49	GOM_TRA_1PNPDE20041220_023909_000000432033_00089_14672_0002.N1	20-DEC-2004 02:39:09	Bright	43.000	55	79Zet UMa	2.0600	10200.	86	14672	No
50	GOM_TRA_1PNPDE20041220_024109_000000572033_00089_14672_0003.N1	20-DEC-2004 02:41:09	Bright	57.000	39	85Eta UMa	1.8540	24000.	114	14672	No

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



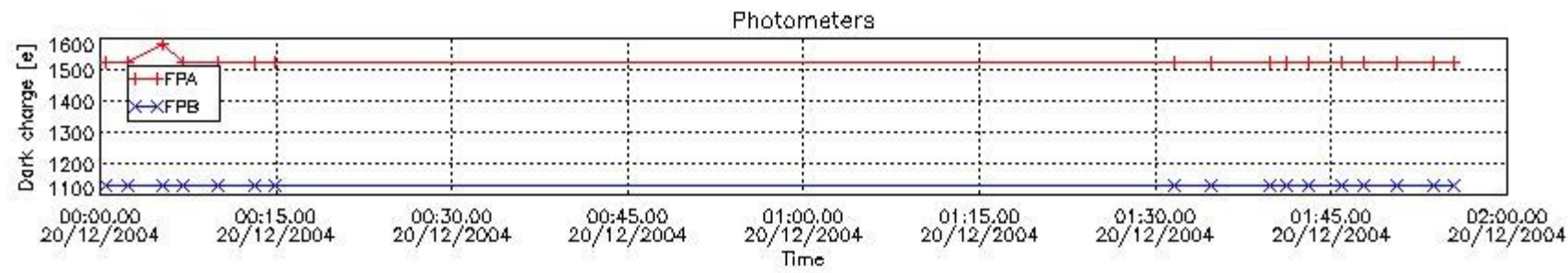
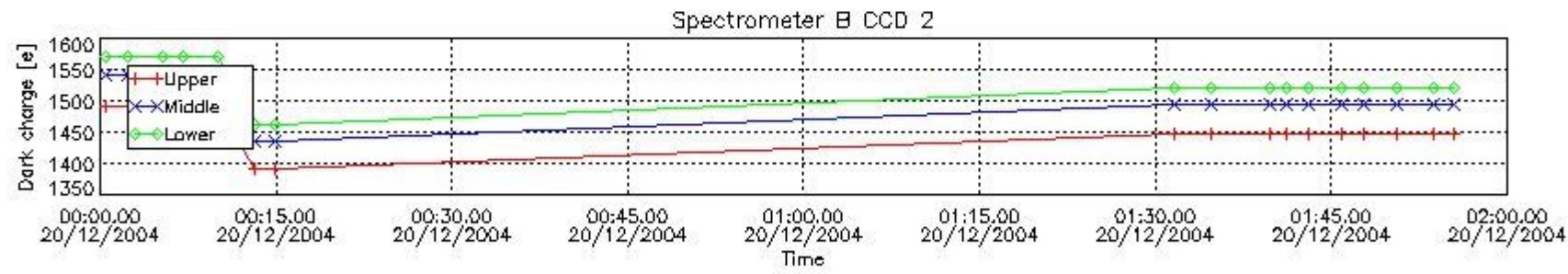
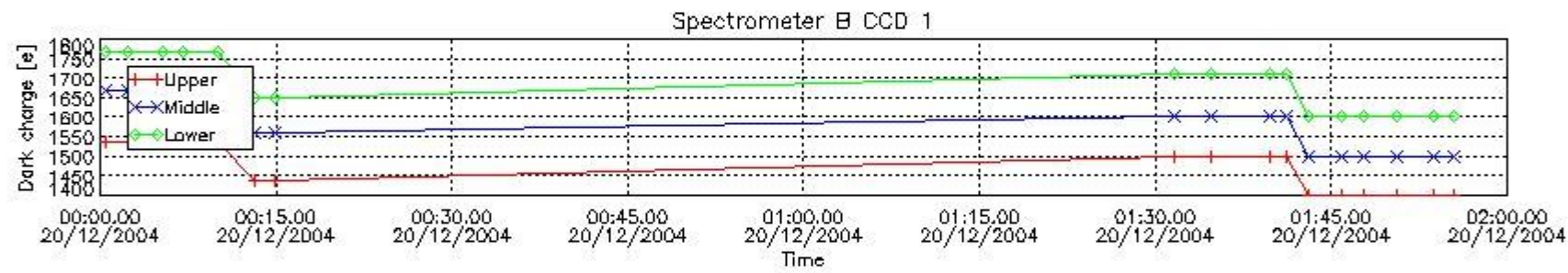
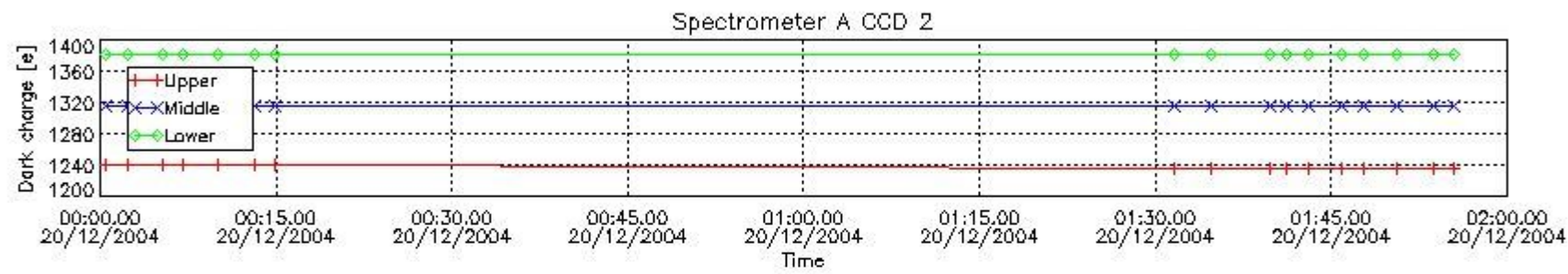
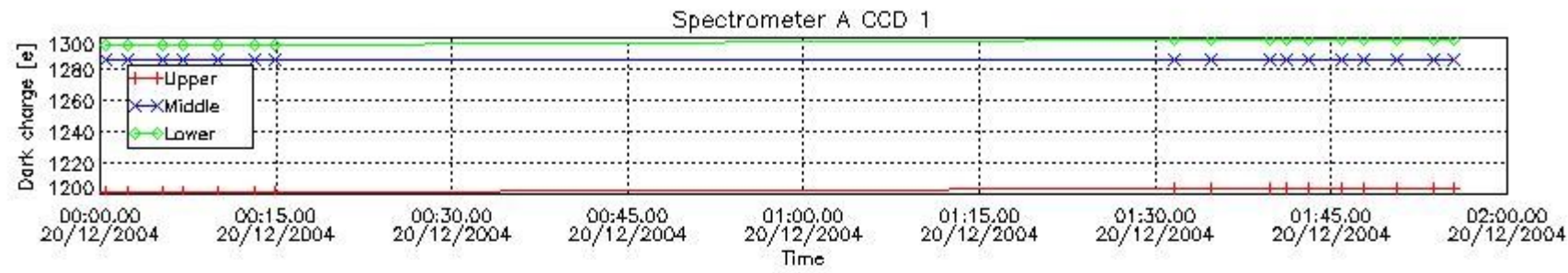
4. Overview of dark signal processing per product

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



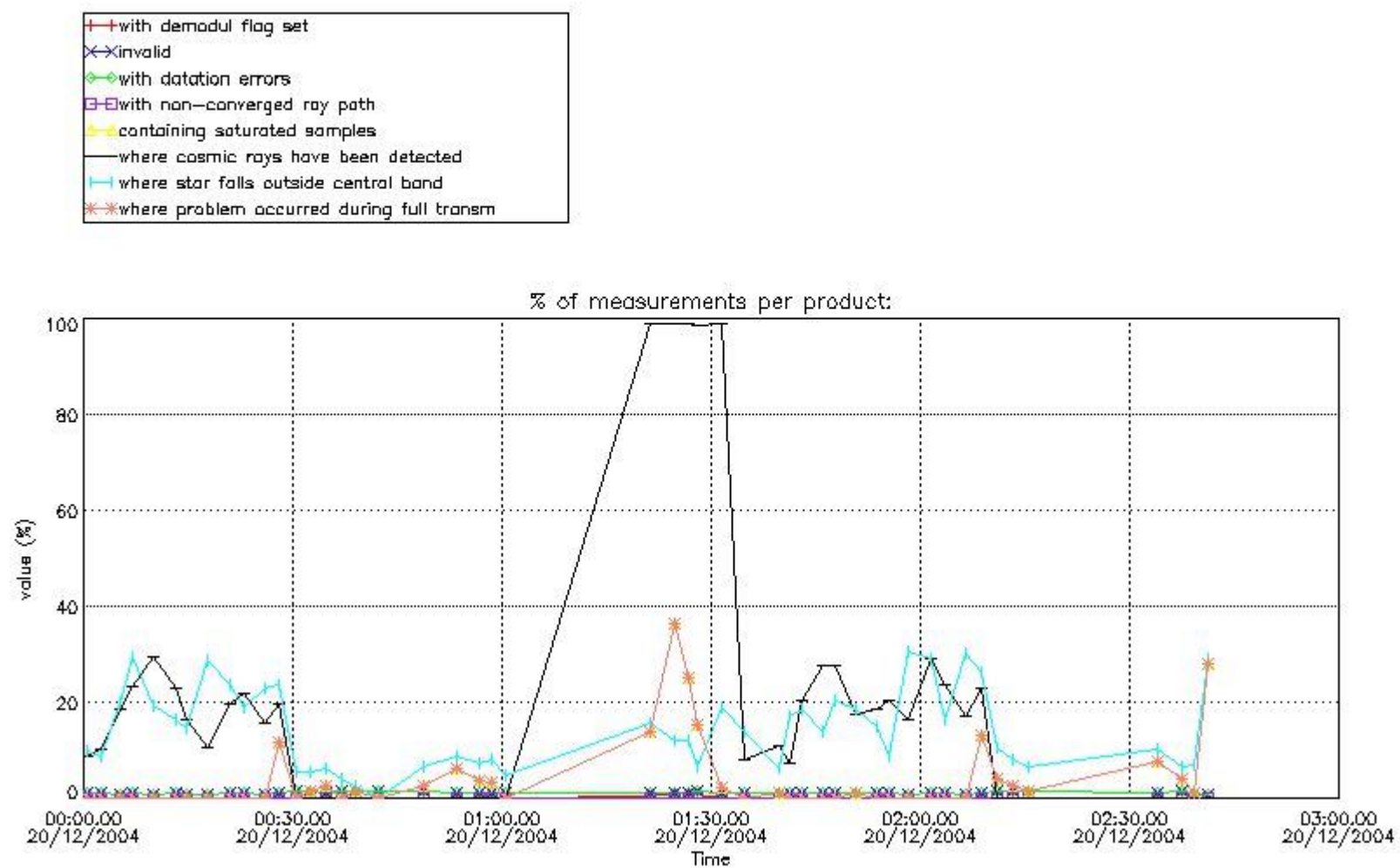
5. Demodulation flag and quality information monitoring

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.

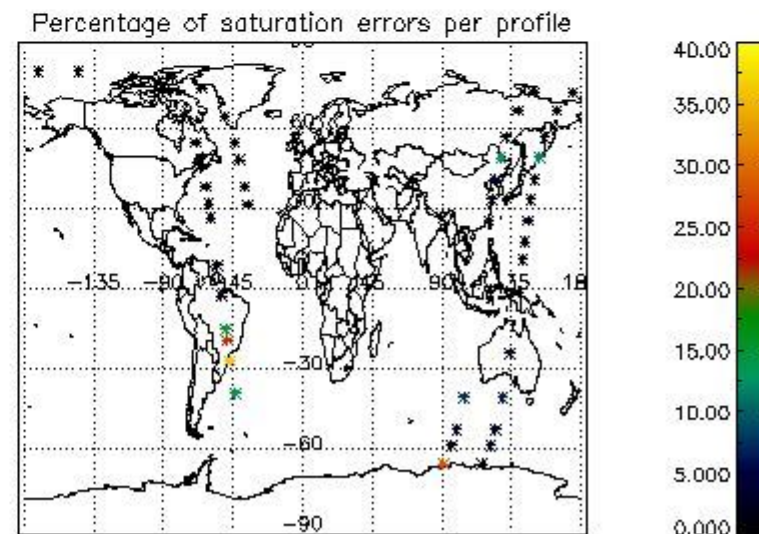
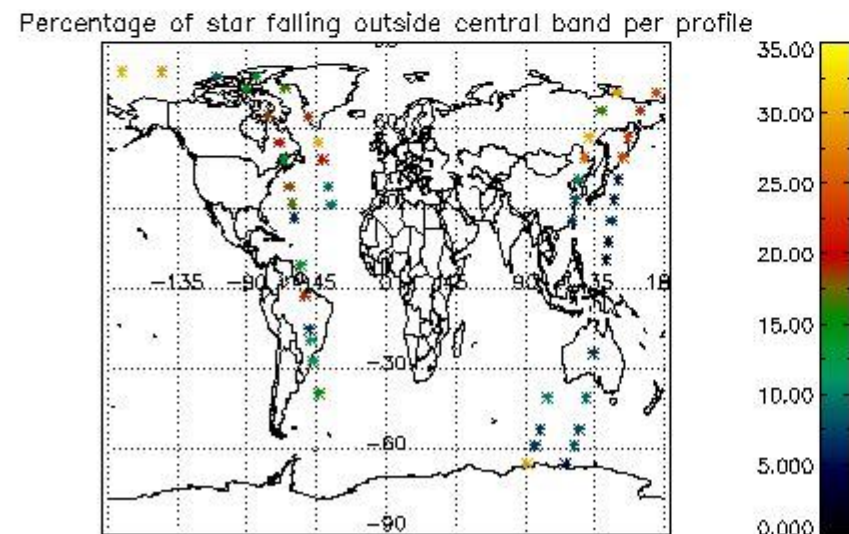
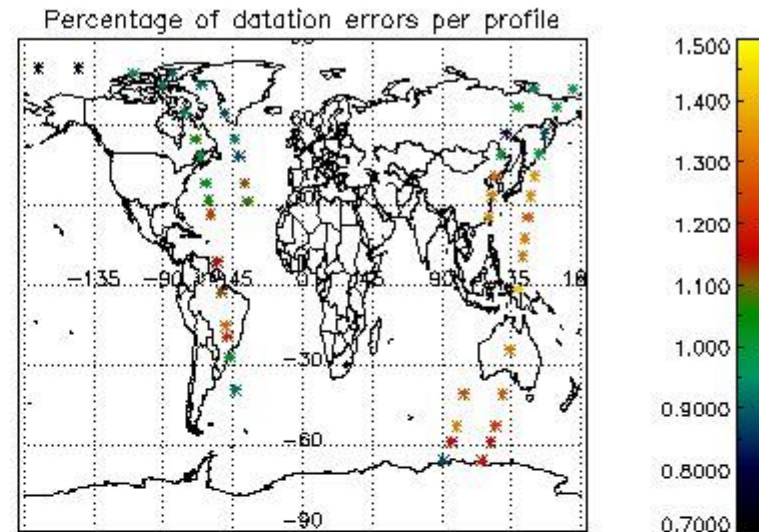
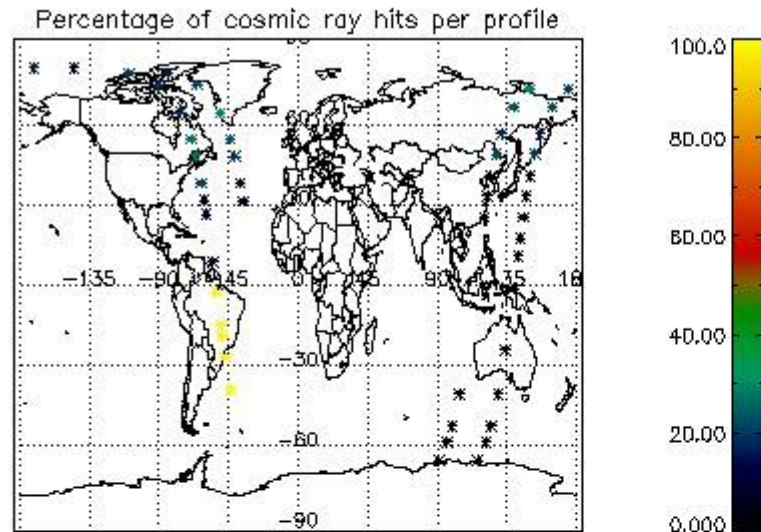
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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)



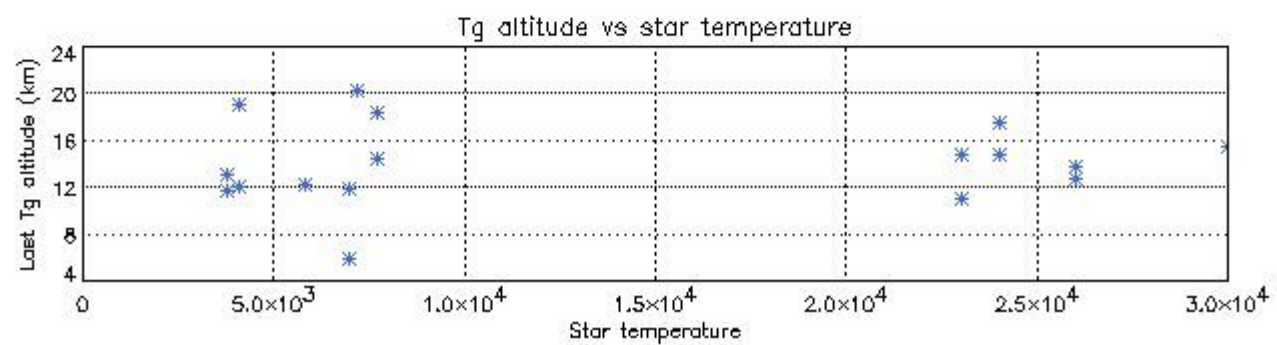
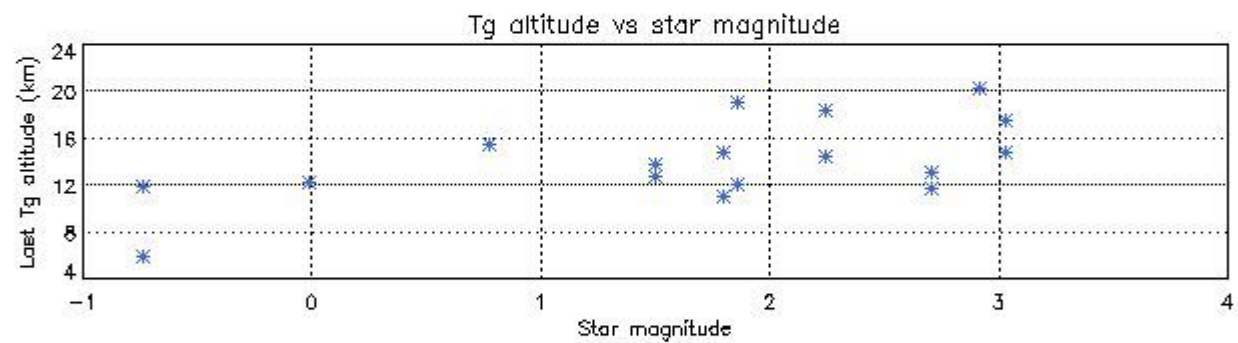
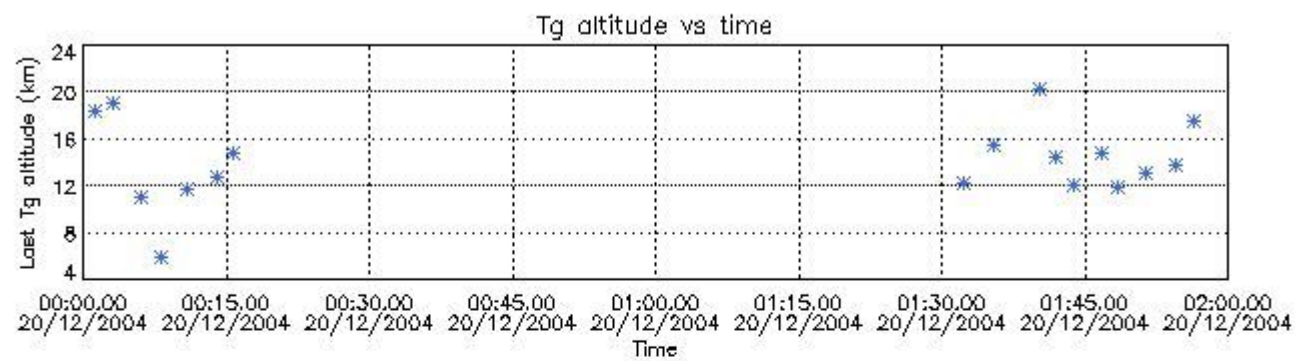
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.032	17.064	13.159
St. deviation:	3.4784	6.5723	5.6213
Maximum:	20.285	28.703	20.396
Minimum:	5.8165	6.0287	6.2208
Number of data:	17.000	26.000	6.0000

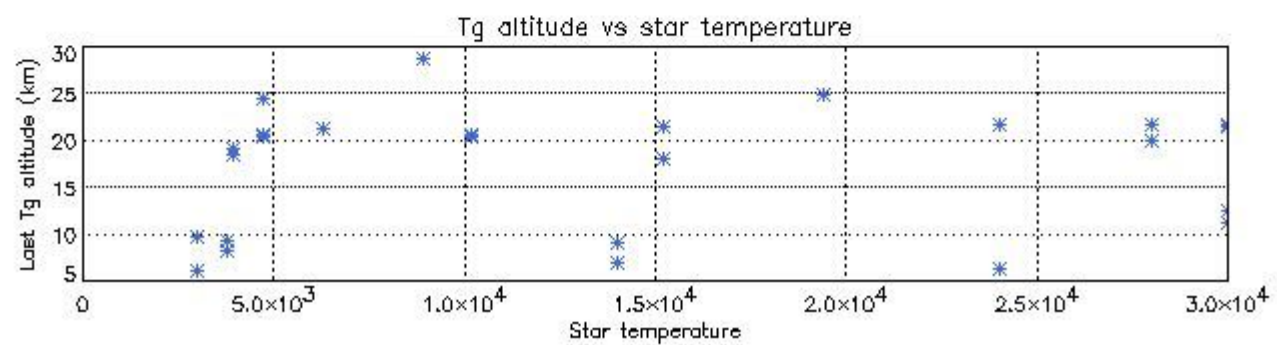
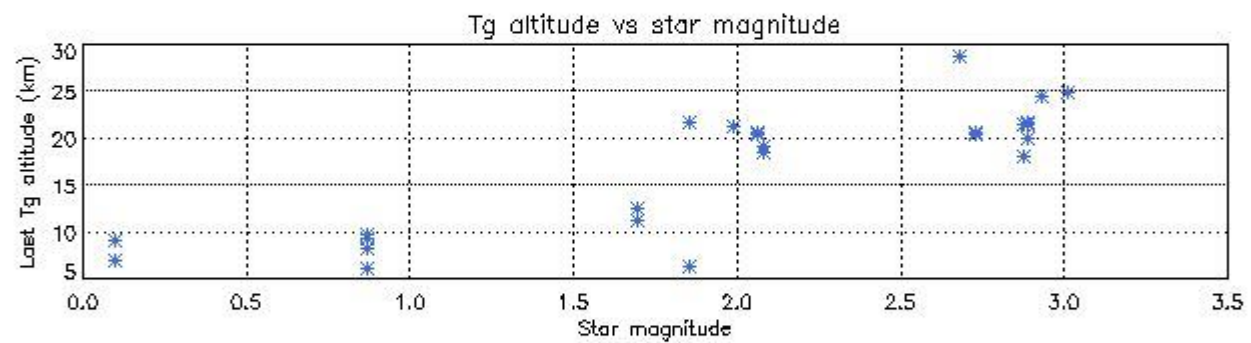
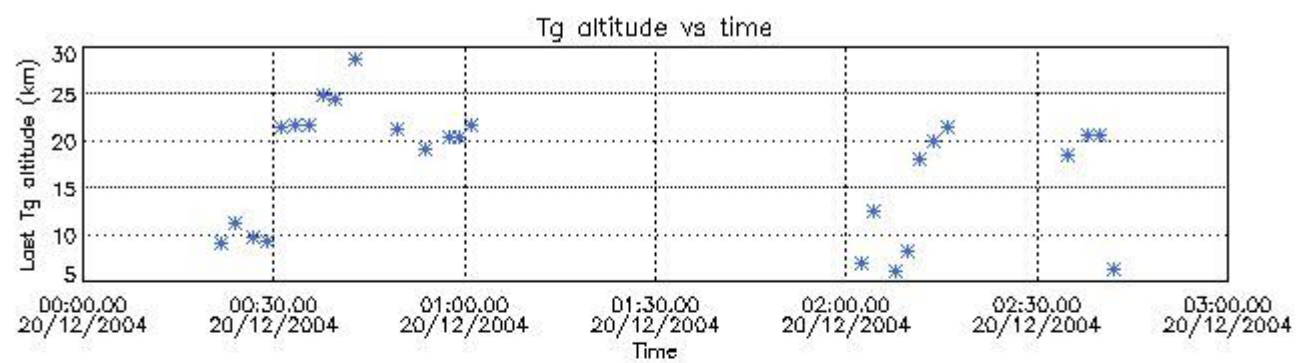
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



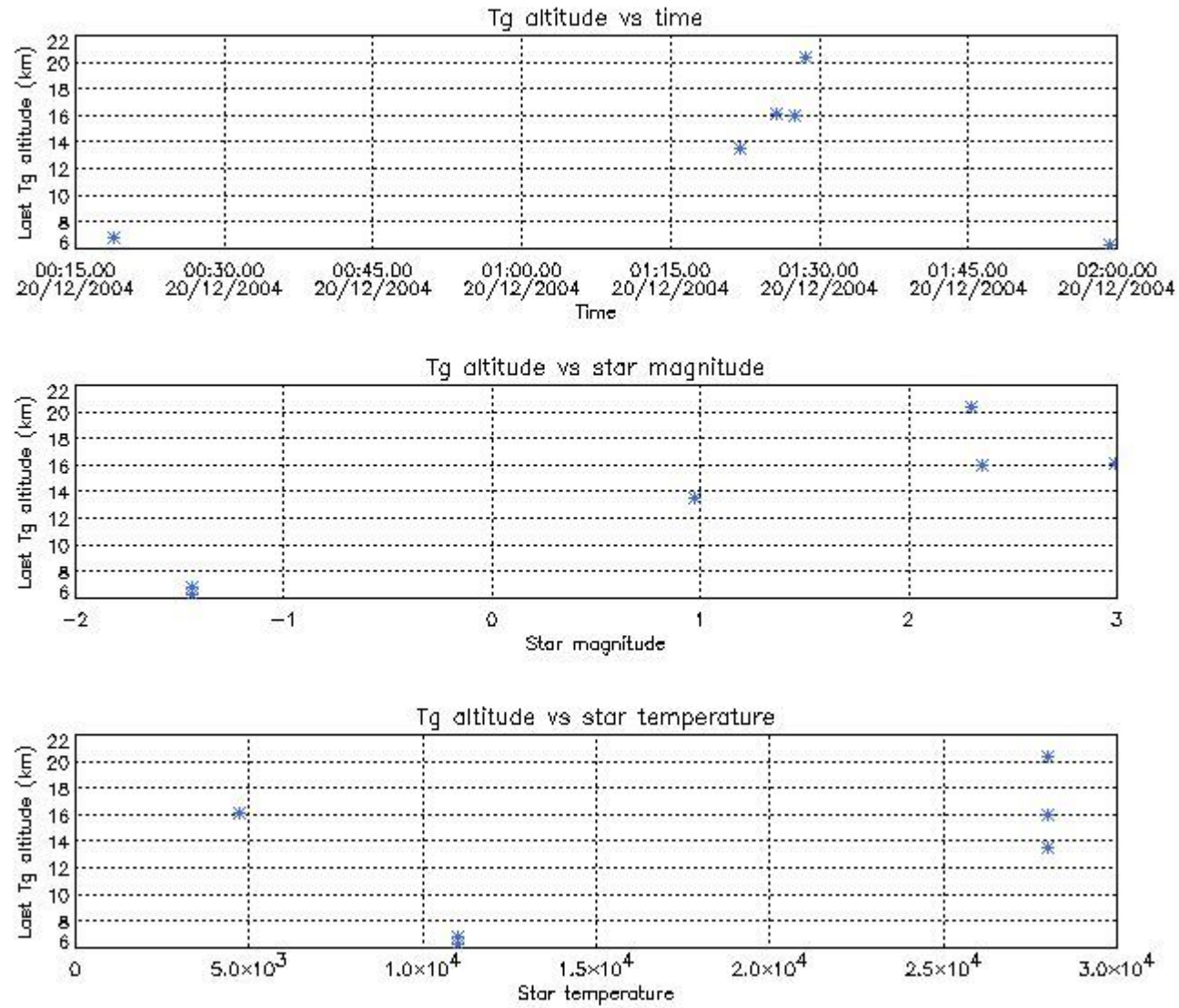
6.3 Plot for BRIGHT limb products

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

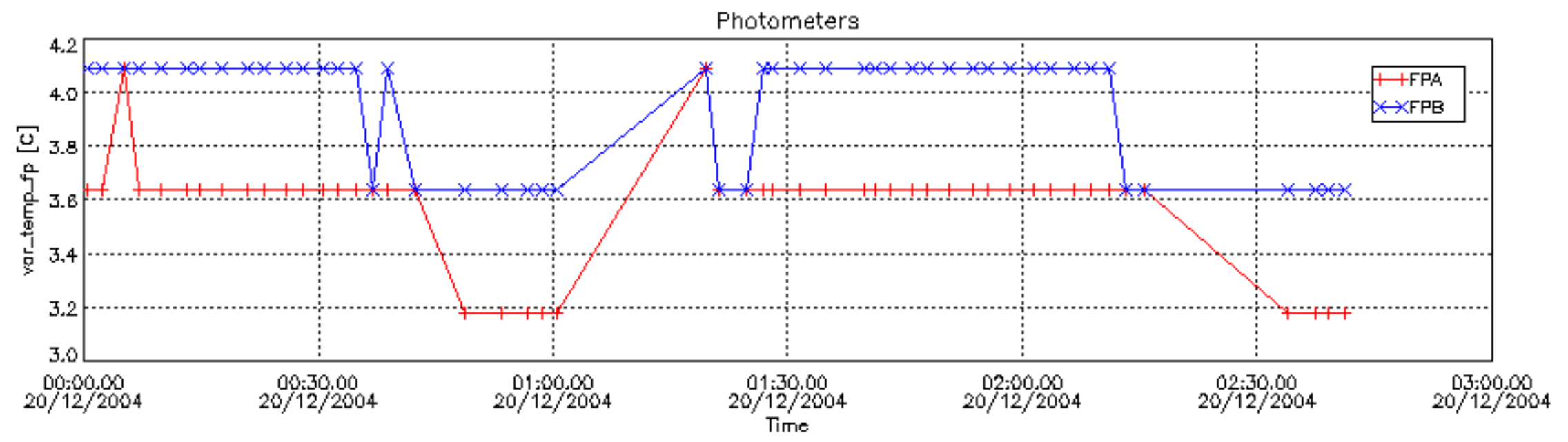
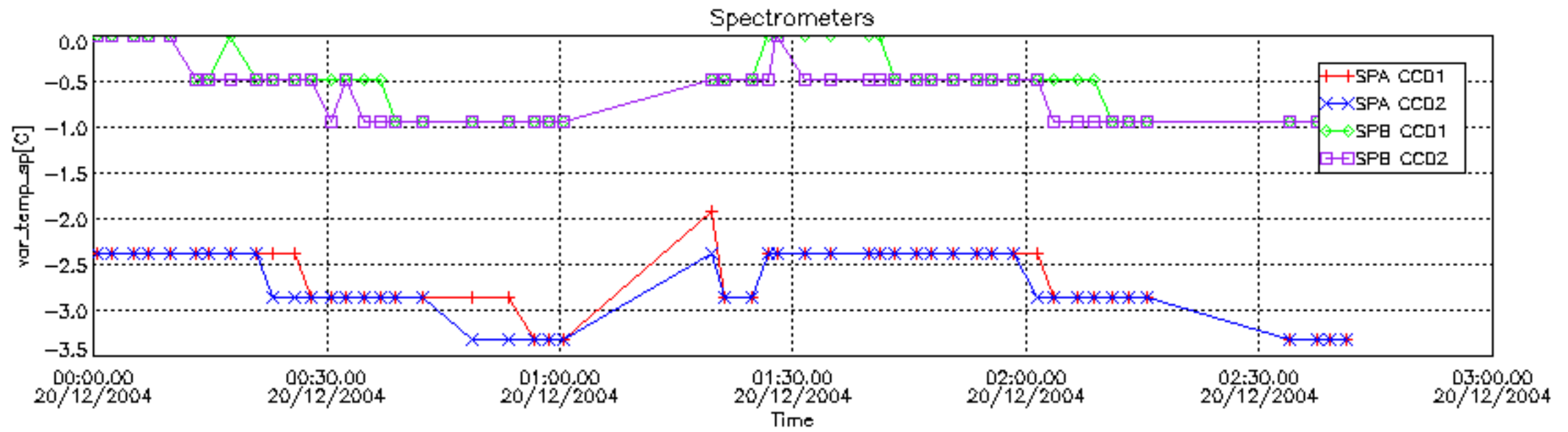
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

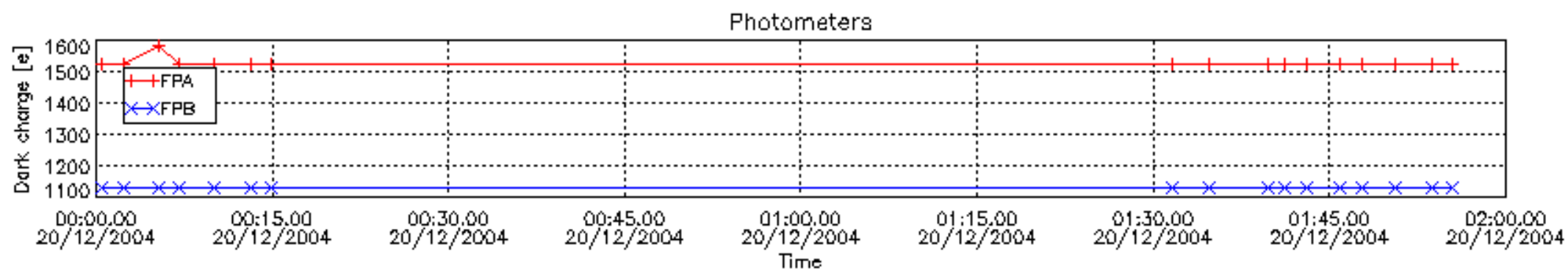
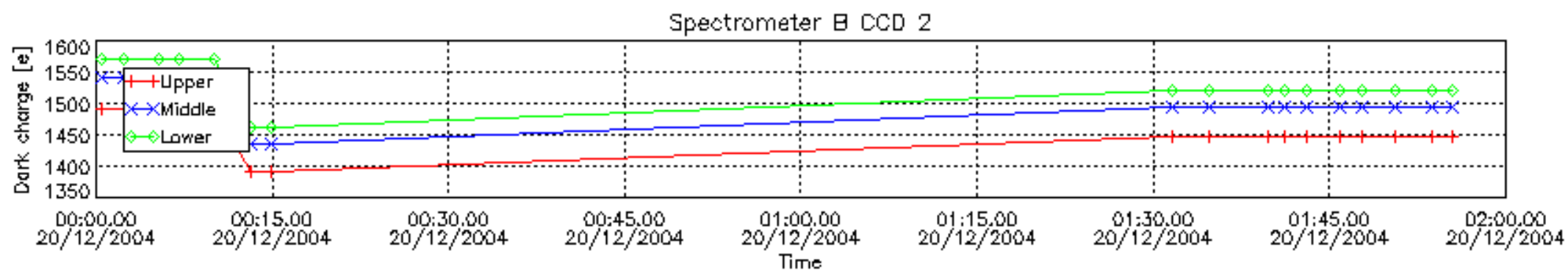
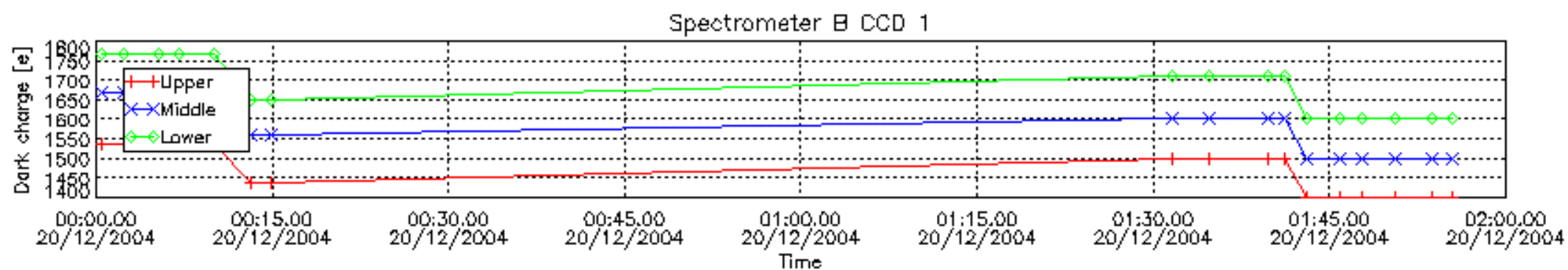
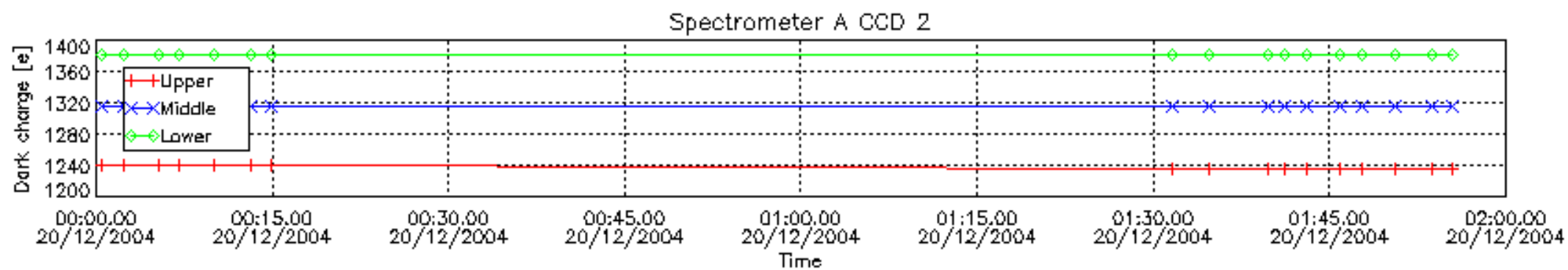
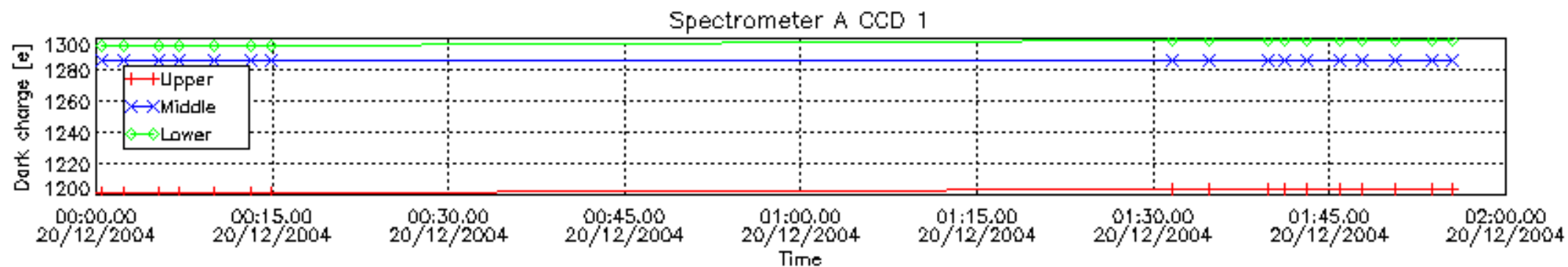
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.3	1447.6	1461.1	1446.7
St. deviation:	4.7533	7.5155	7.4865	10.055
Maximum:	1507.0	1502.0	1525.0	1513.0
Minimum:	1423.0	1395.0	1434.0	1420.0
Number of data:	22150.	22150.	29350.	29350.

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

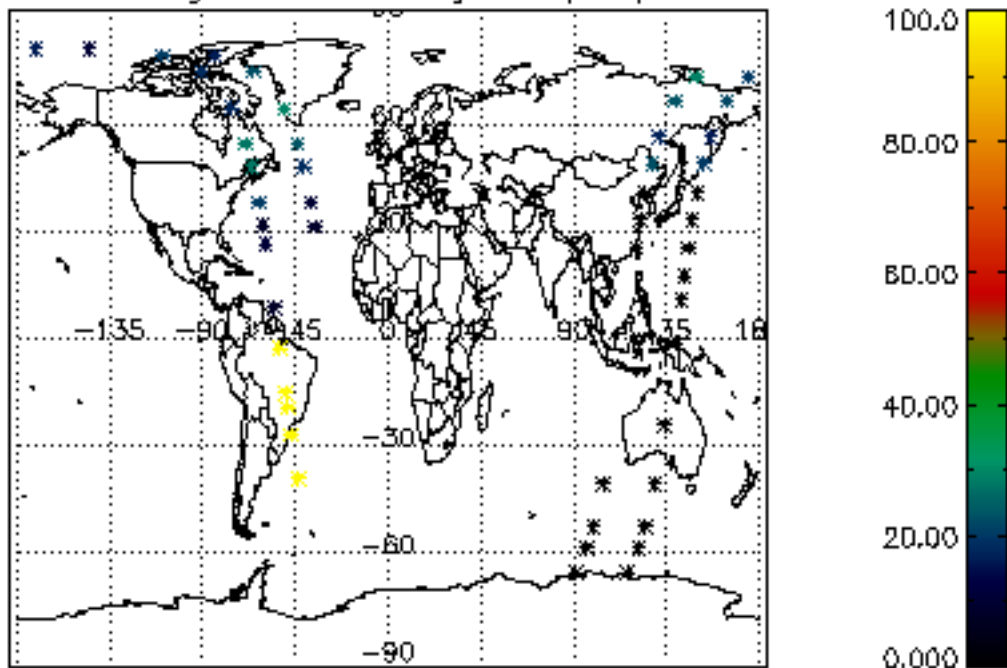
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	20-DEC-2004 00:00:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	20-DEC-2004 00:00:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	20-DEC-2004 00:00:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-DEC-2004 00:00:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	20-DEC-2004 00:00:32
ECMWF_FILE	AUX_ECF_AXNECM20041219_060705_20041219_210000_20041220_090000	1	20-DEC-2004 00:00:32
OPTIONAL_ECMWF_FILE	NOT USED	1	20-DEC-2004 00:00:32
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041219_234639_20041219_184955_20041229_201607	1	20-DEC-2004 00:00:32

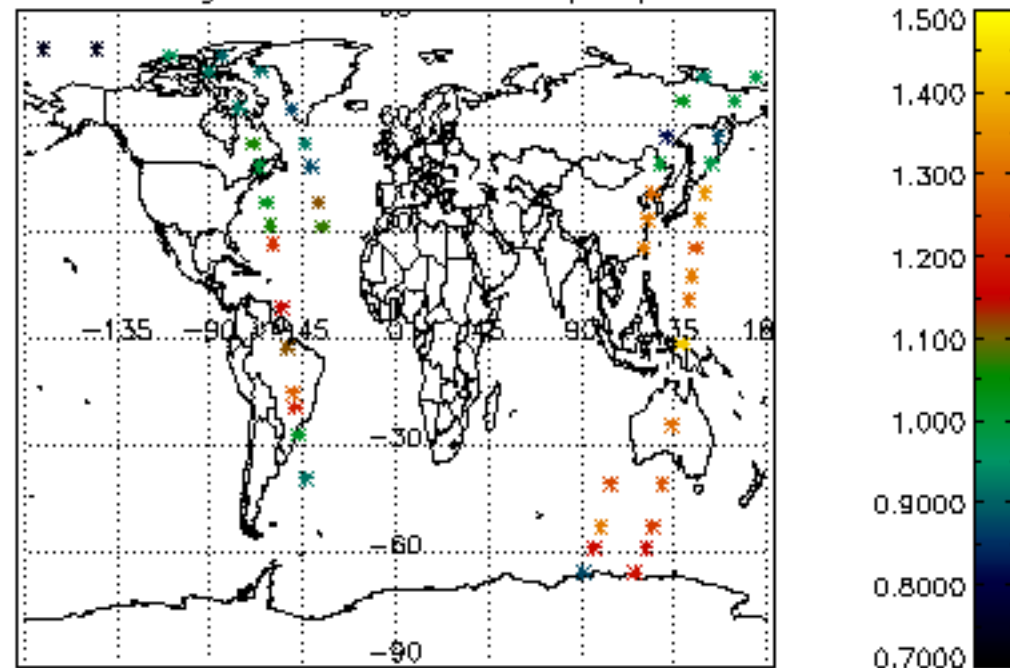




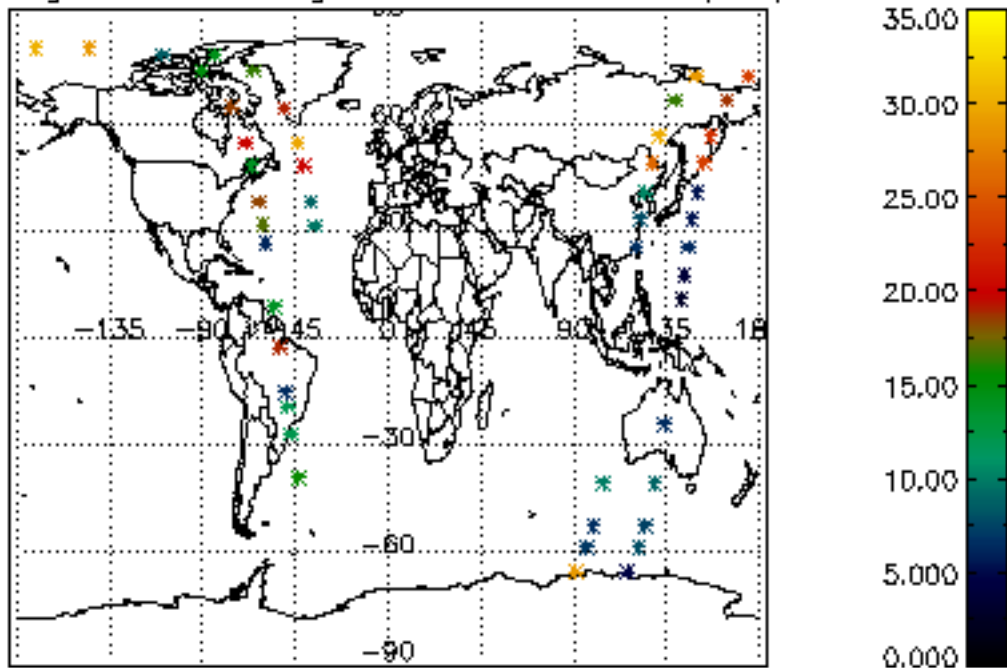
Percentage of cosmic ray hits per profile



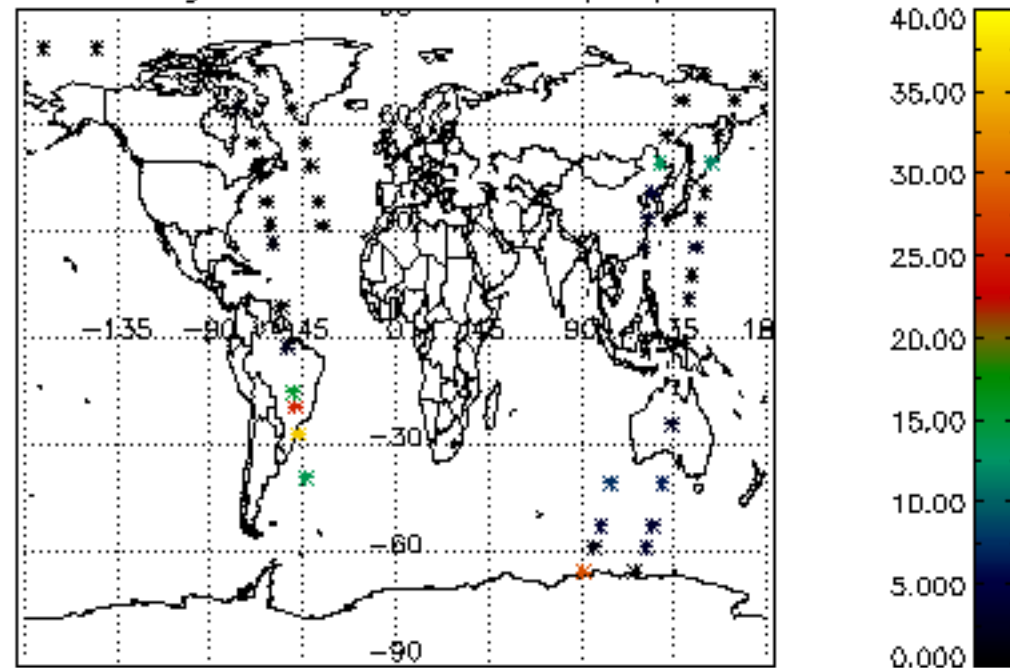
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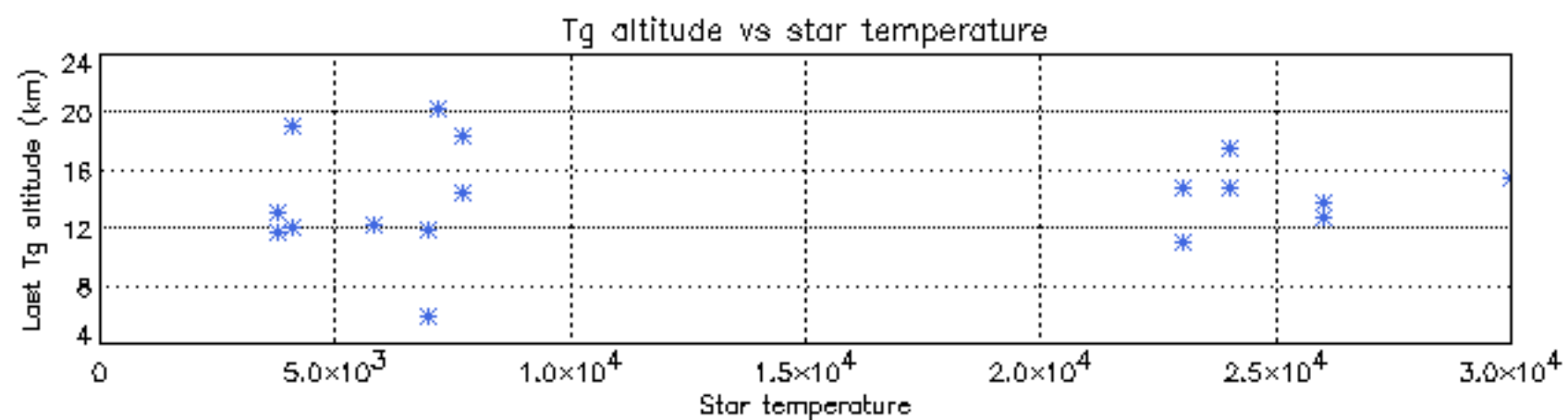
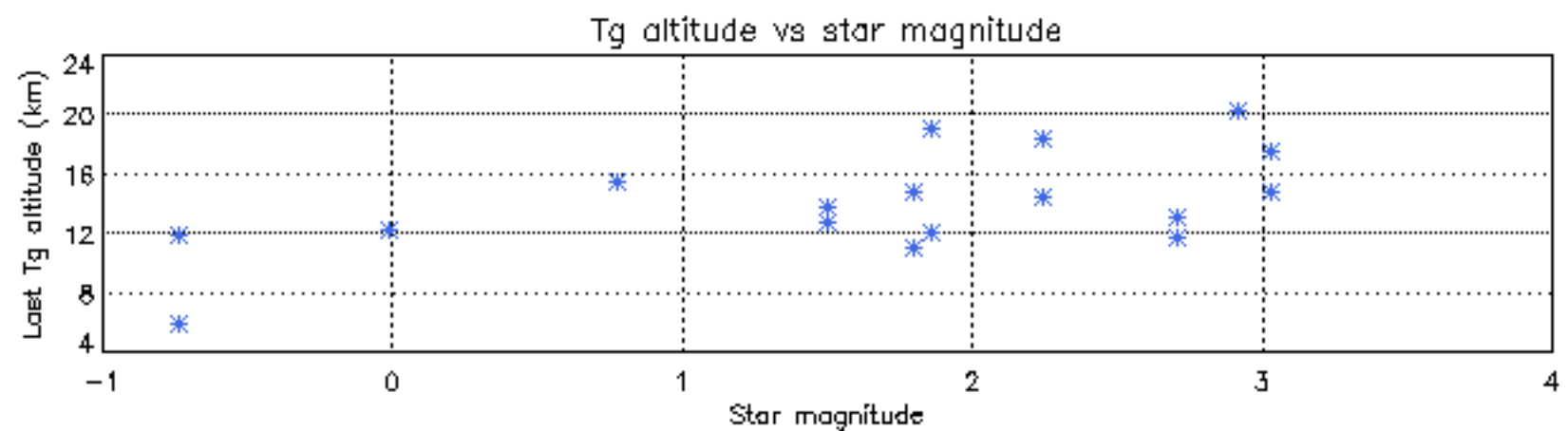
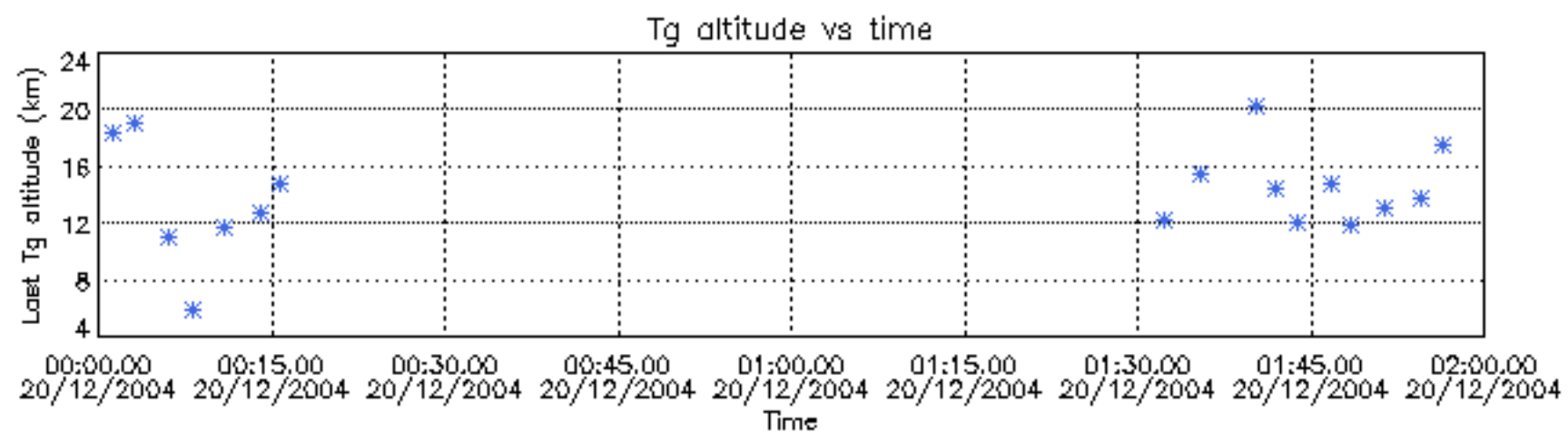
Percentage of star falling outside central band per profile



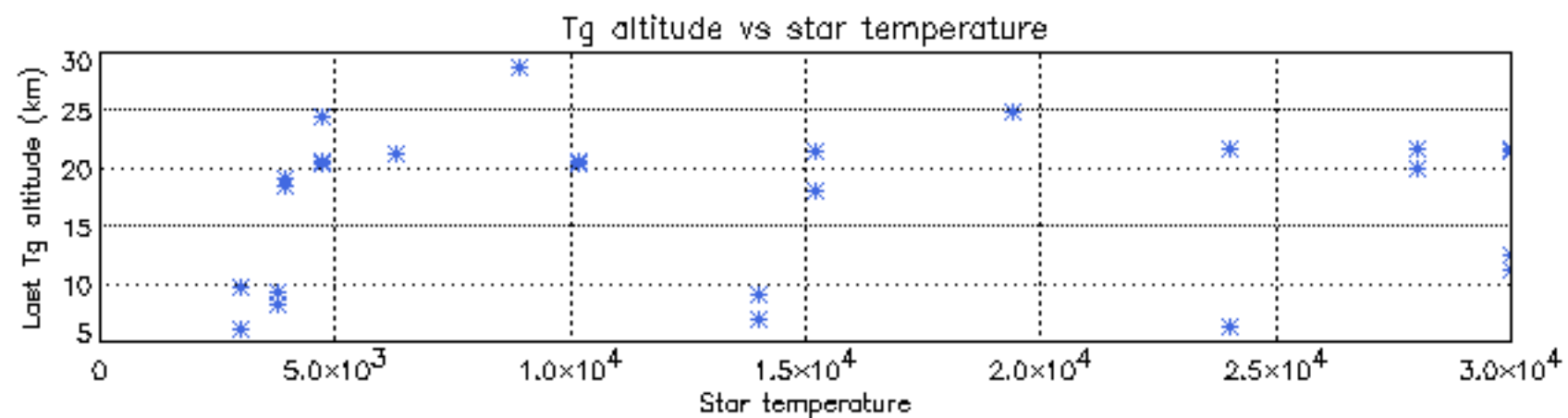
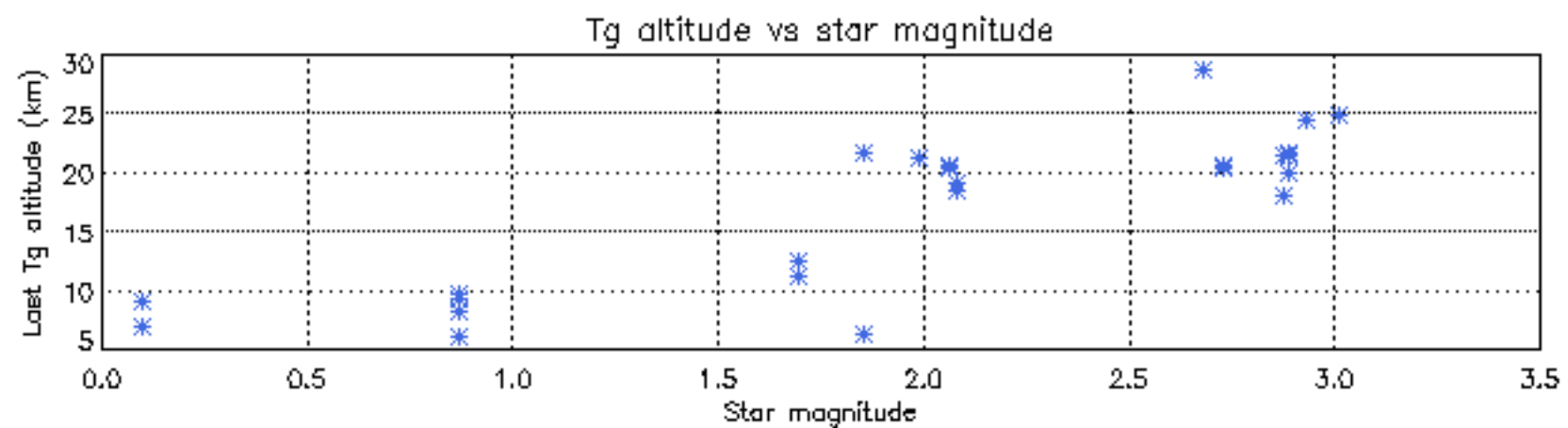
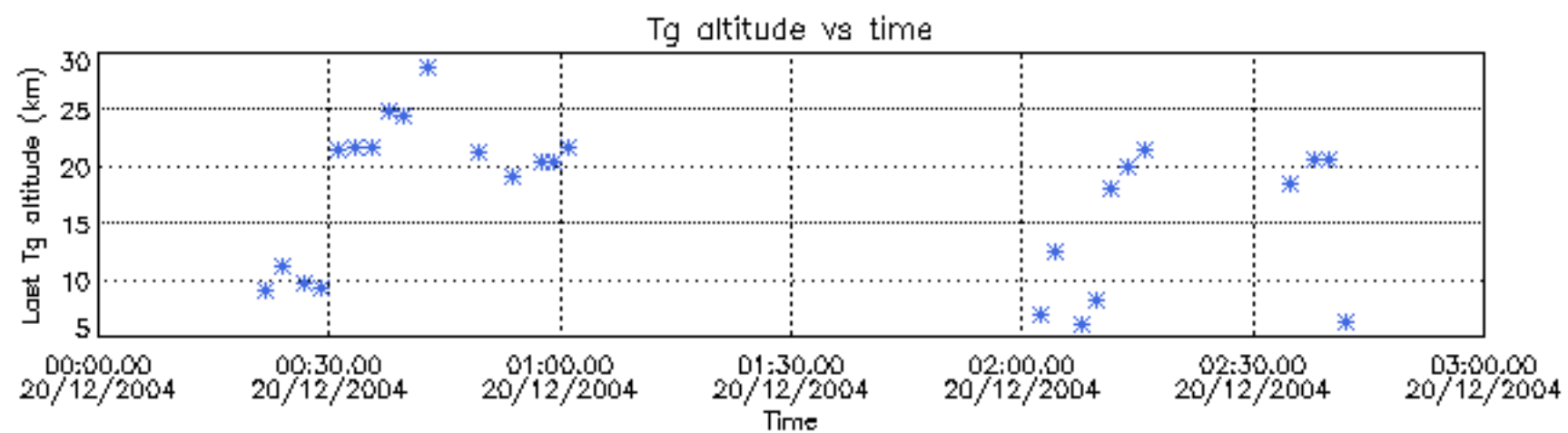
Percentage of saturation errors per profile



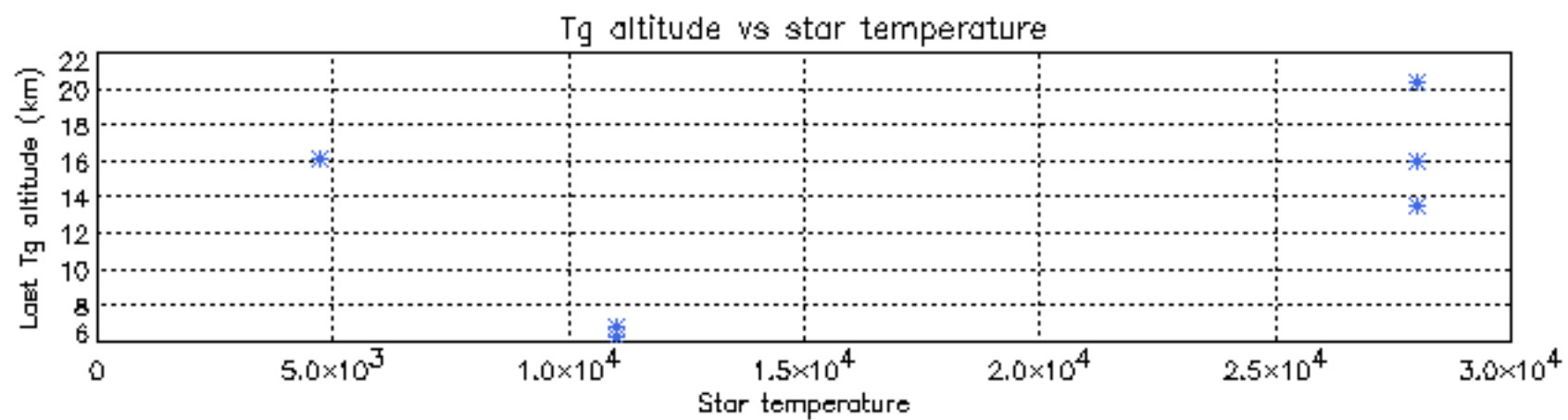
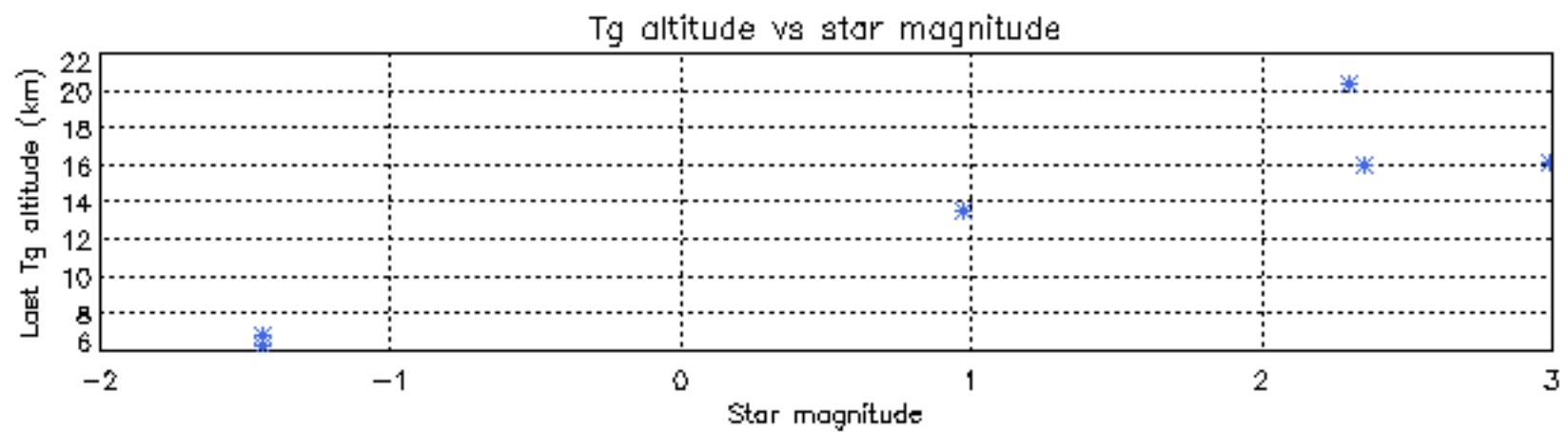
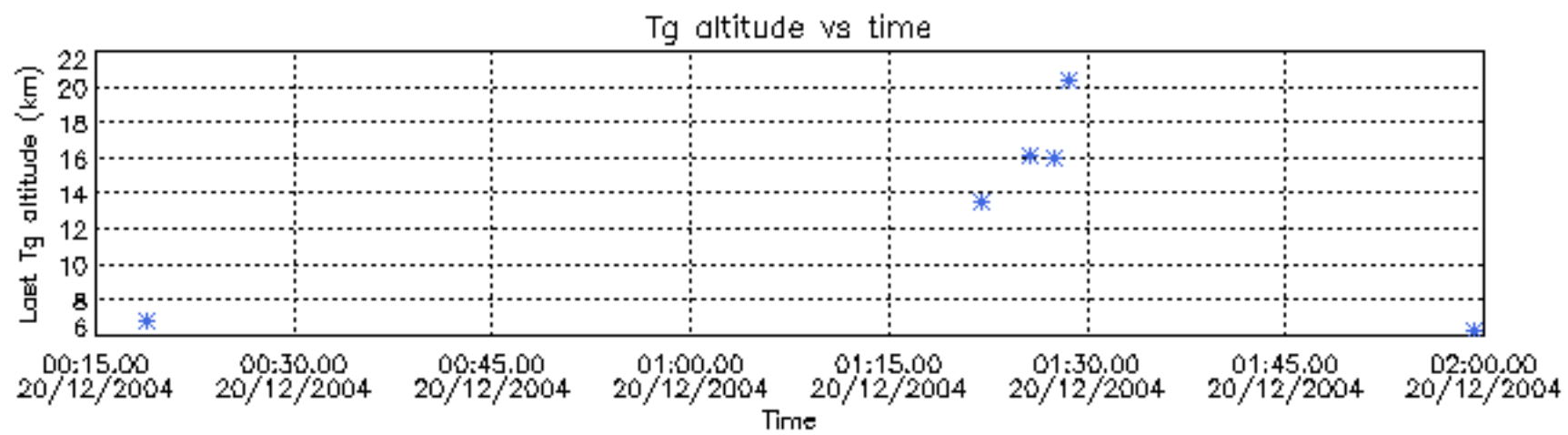
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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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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21; 2225.1; 01-DEC-2004 22:13:46; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;14412
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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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
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
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19;	2085.3;	01-DEC-2004	23:52:02;	Dark	;	66.5;	27;	24Gam Ori	;	1.64;	26000;occ;	133;	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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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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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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