

GOMOS Daily Report 14-DEC-2004

Level 0 and Level 1 products

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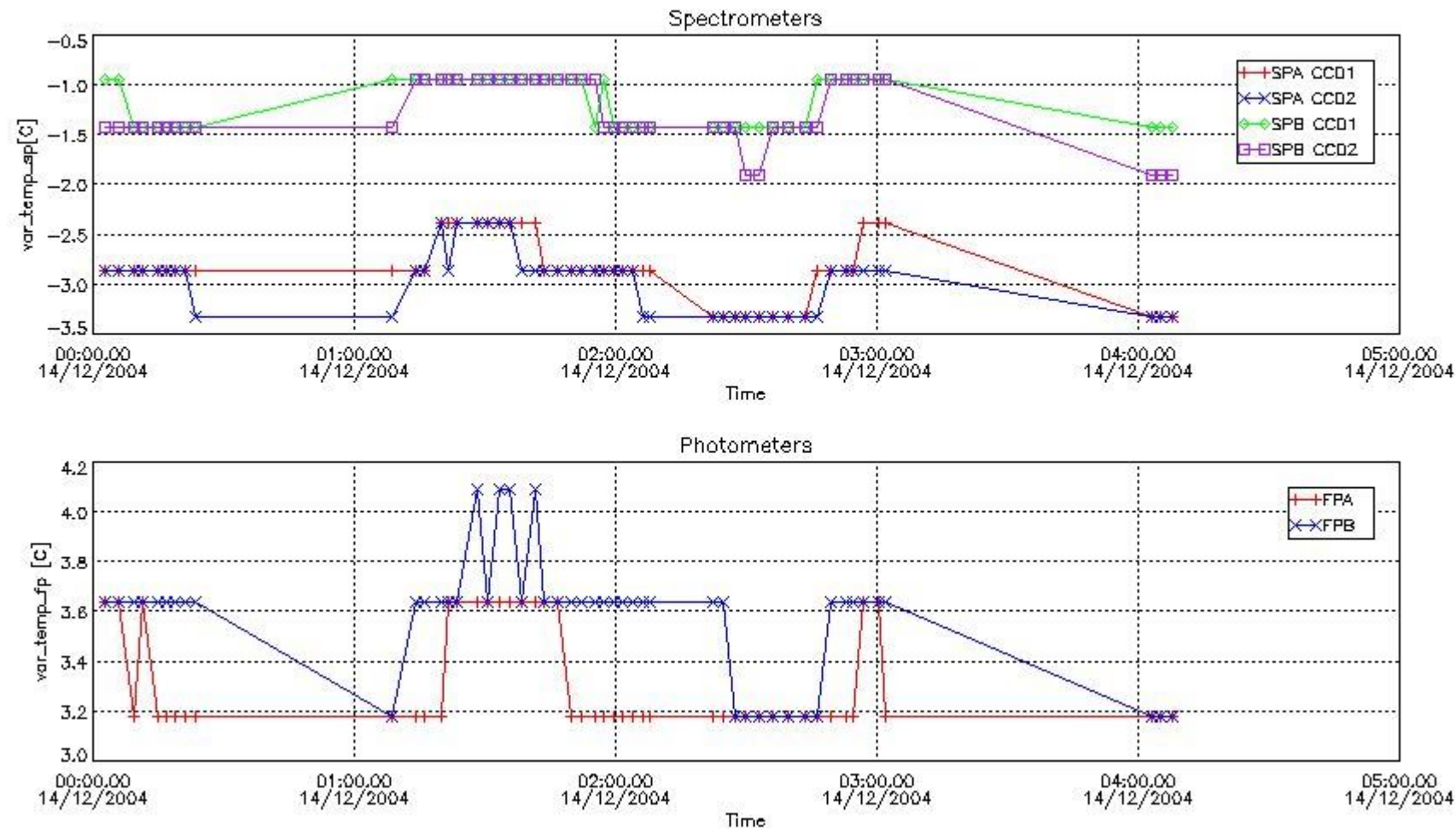
1. General Info

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	16DEC2004 05:05:39

47	GOM_TRA_1PNPDE20041214_030205_00000402033_00004_14587_0014.N1	14-DEC-2004 03:02:05	Dark	40.000	20	Bet Cru	1.2530	30000.	80	14587	No
48	GOM_TRA_1PNPDE20041214_040306_00000442033_00004_14587_0000.N1	14-DEC-2004 04:03:06	Bright	43.500	60	7Bet UMi	2.0810	3950.0	87	14587	No
49	GOM_TRA_1PNPDE20041214_040511_00000532033_00004_14587_0001.N1	14-DEC-2004 04:05:11	Bright	52.500	82	48Bet UMa	2.3650	10600.	105	14587	No
50	GOM_TRA_1PNPDE20041214_040751_00000432033_00004_14587_0002.N1	14-DEC-2004 04:07:51	Bright	42.500	32	77Eps UMa	1.7630	11000.	85	14587	No

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



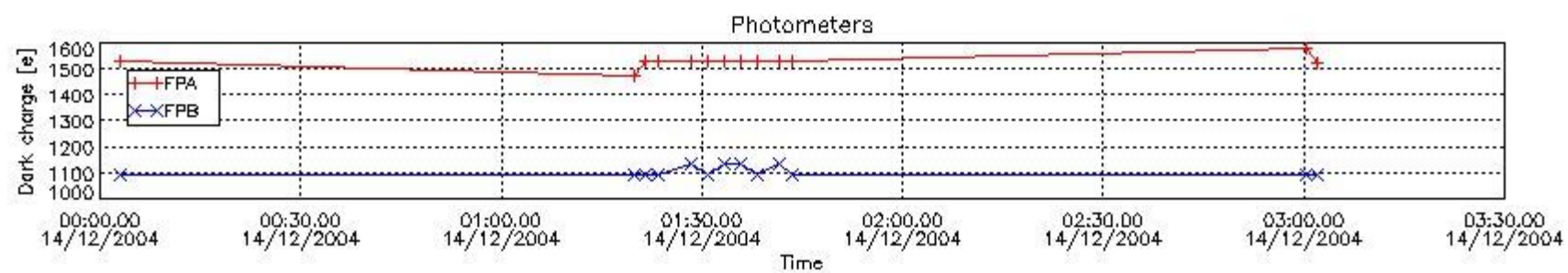
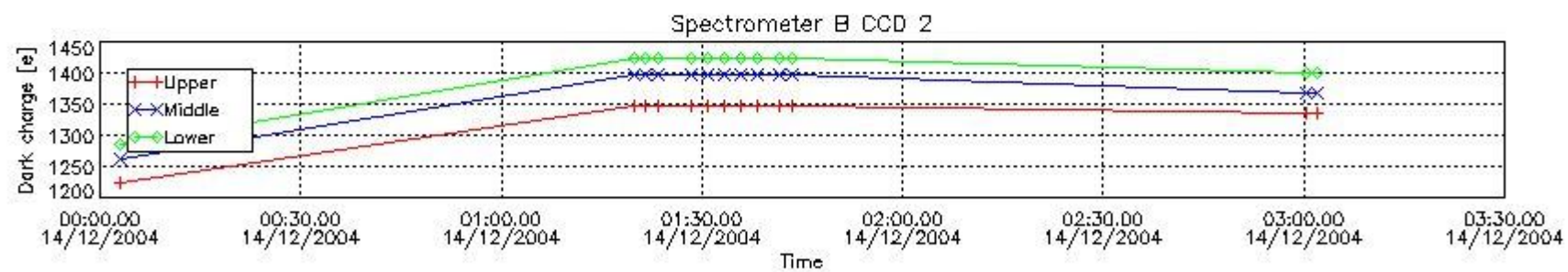
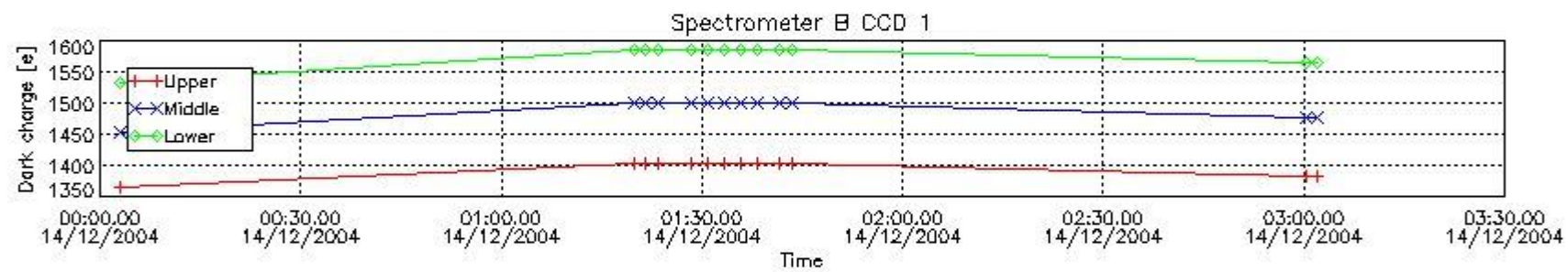
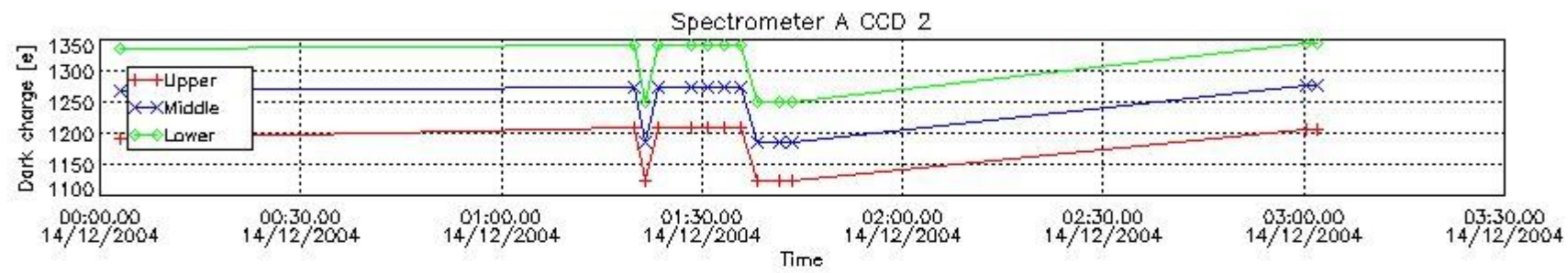
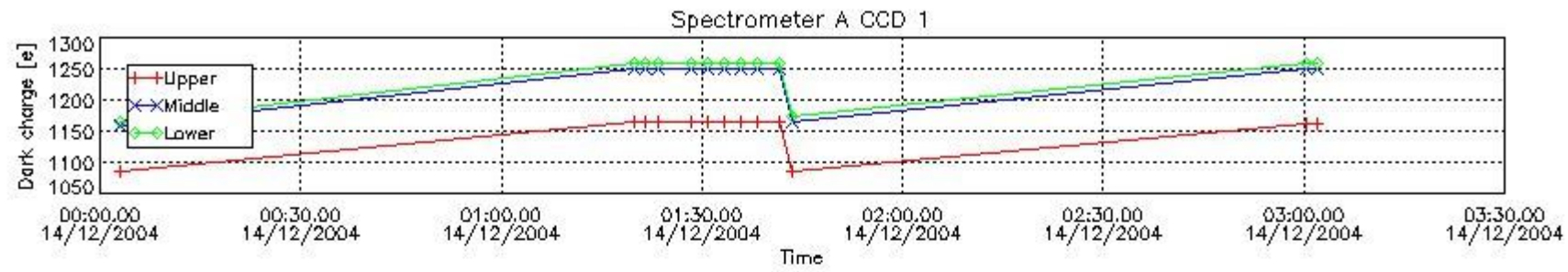
4. Overview of dark signal processing per product

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



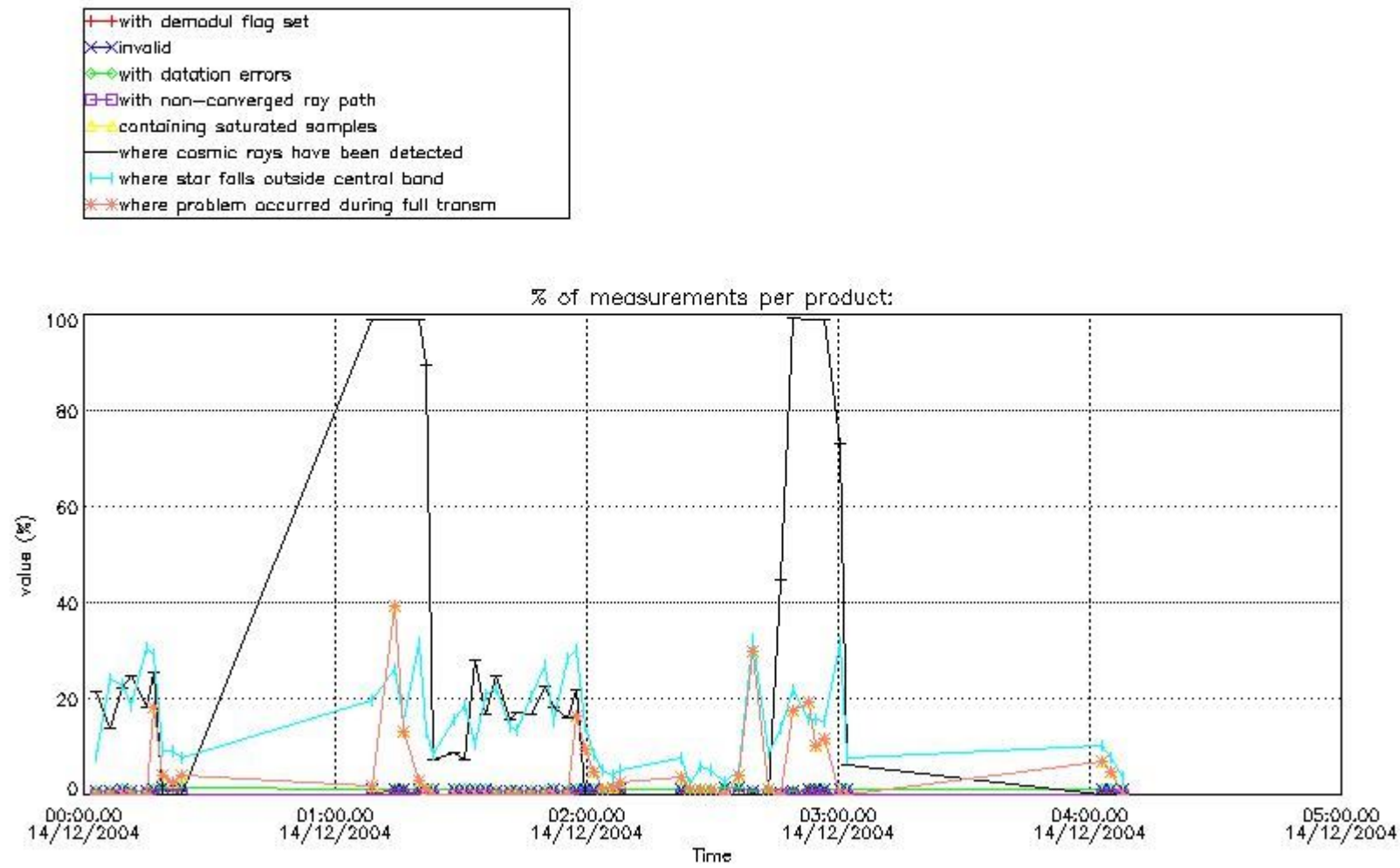
5. Demodulation flag and quality information monitoring

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.

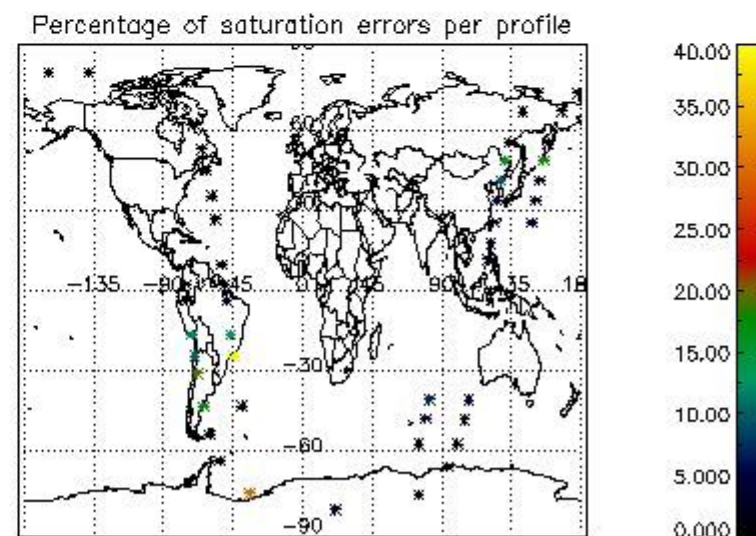
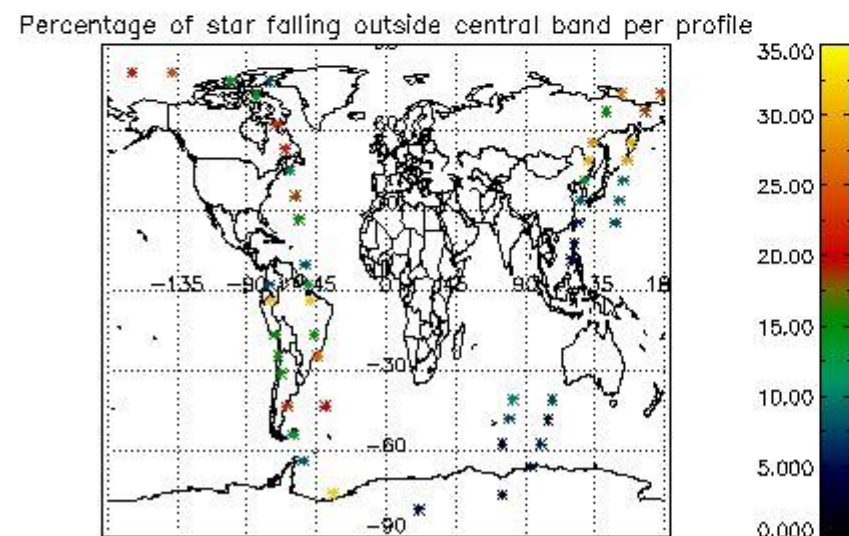
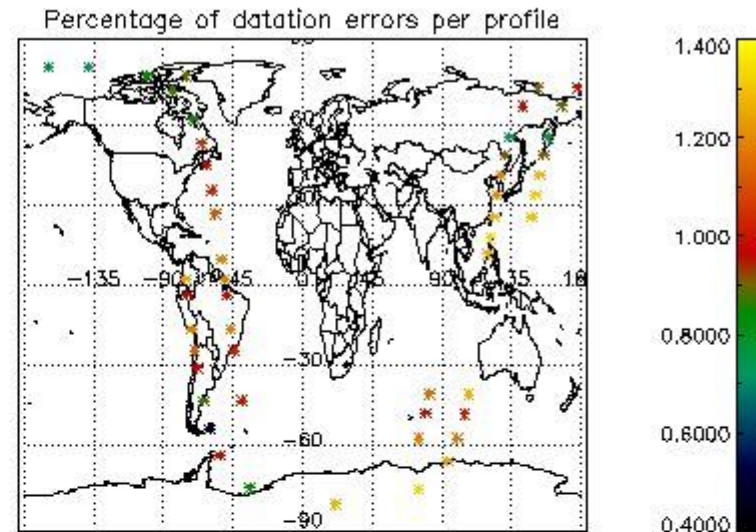
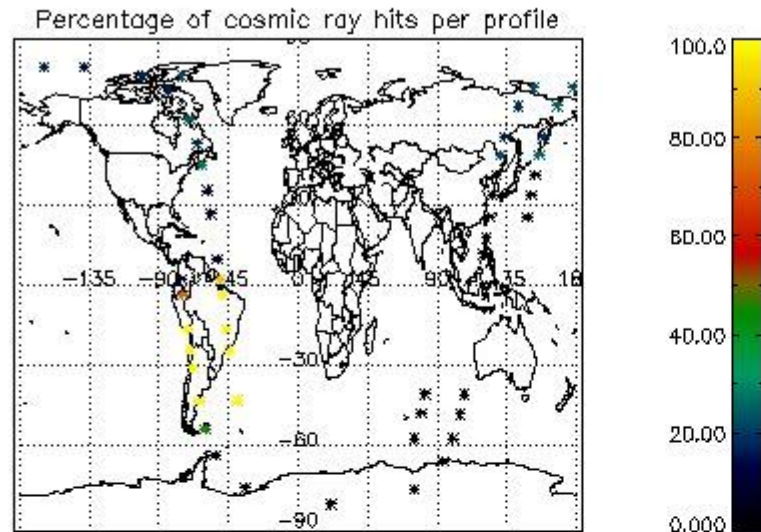
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.0000 %
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)



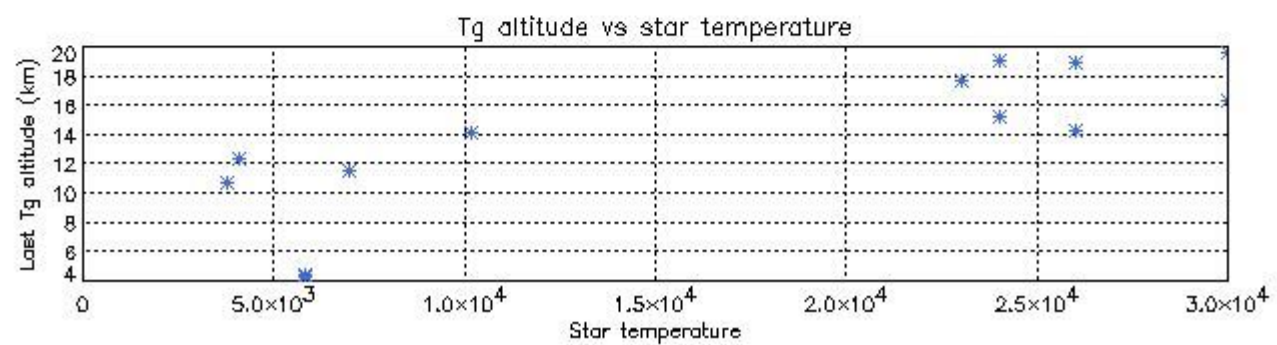
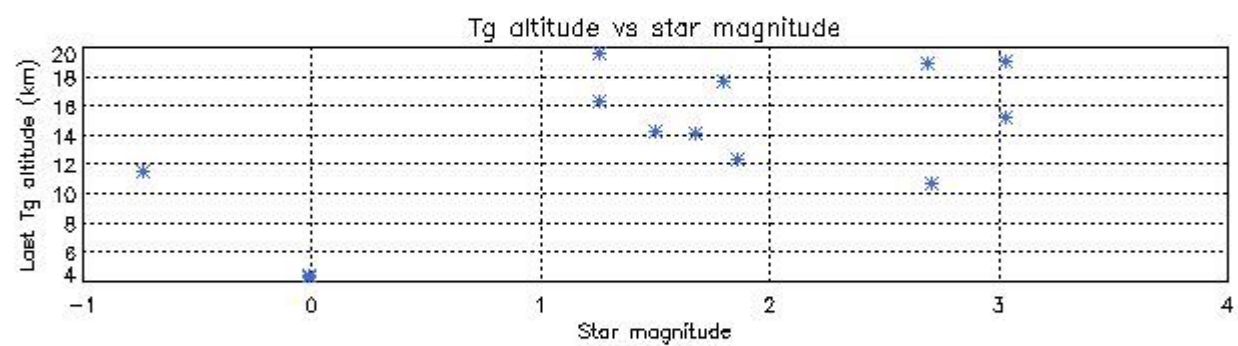
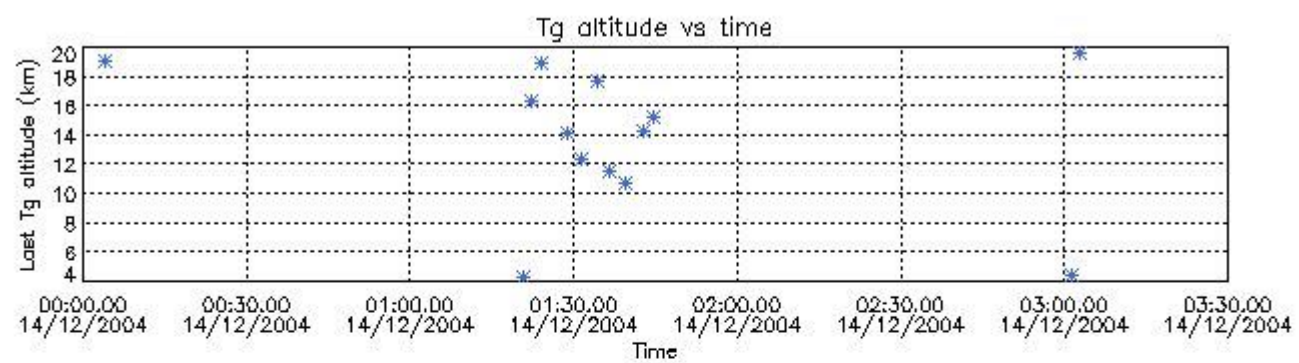
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.730	16.372	12.074
St. deviation:	5.0616	6.4216	2.5007
Maximum:	19.650	24.304	15.422
Minimum:	4.2632	5.7227	7.9193
Number of data:	13.000	27.000	10.000

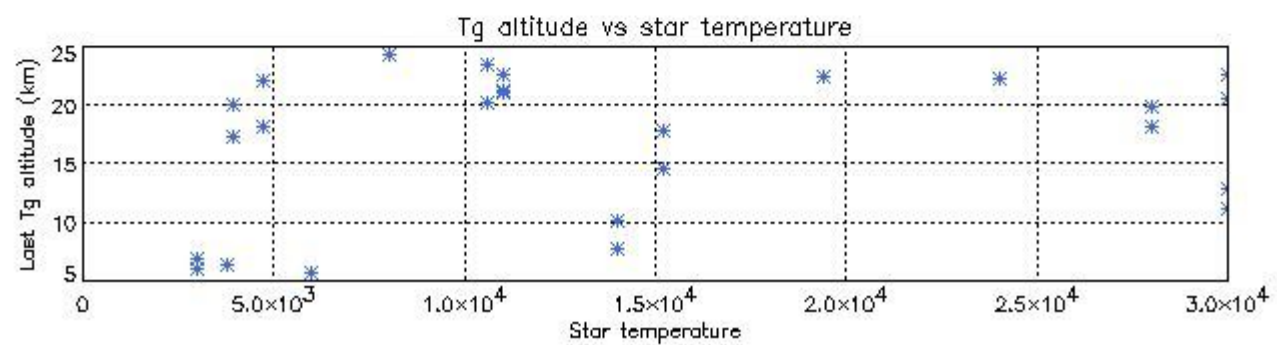
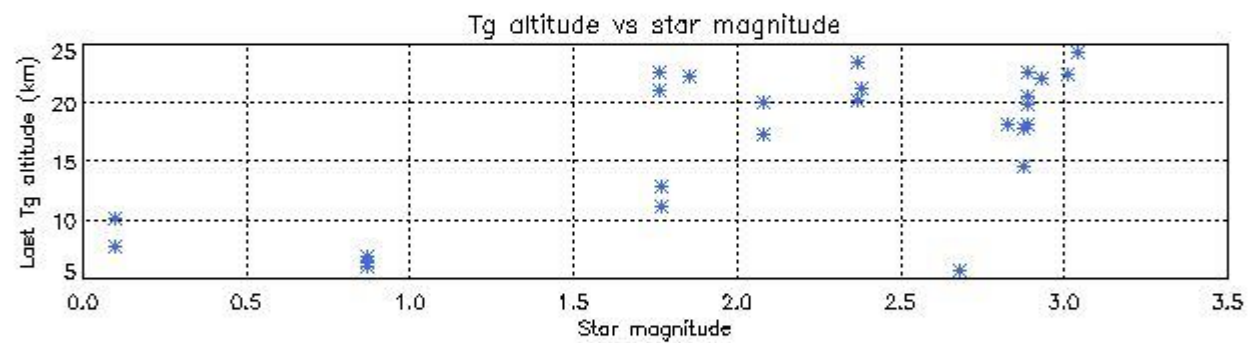
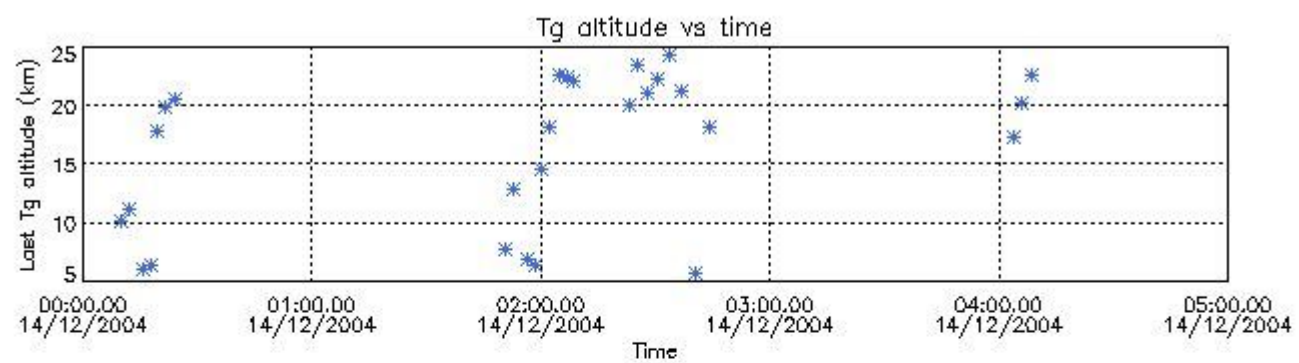
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



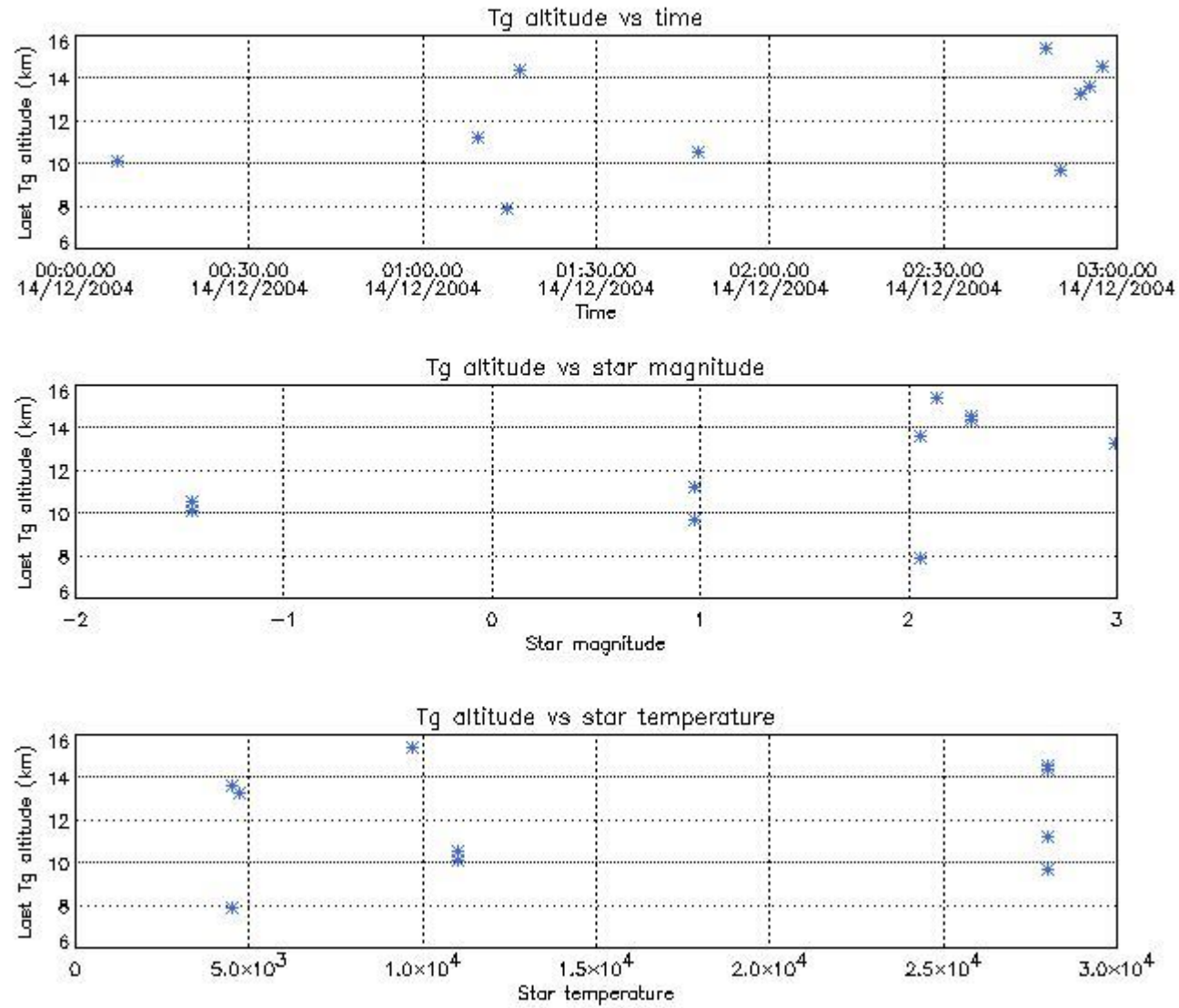
6.3 Plot for BRIGHT limb products

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

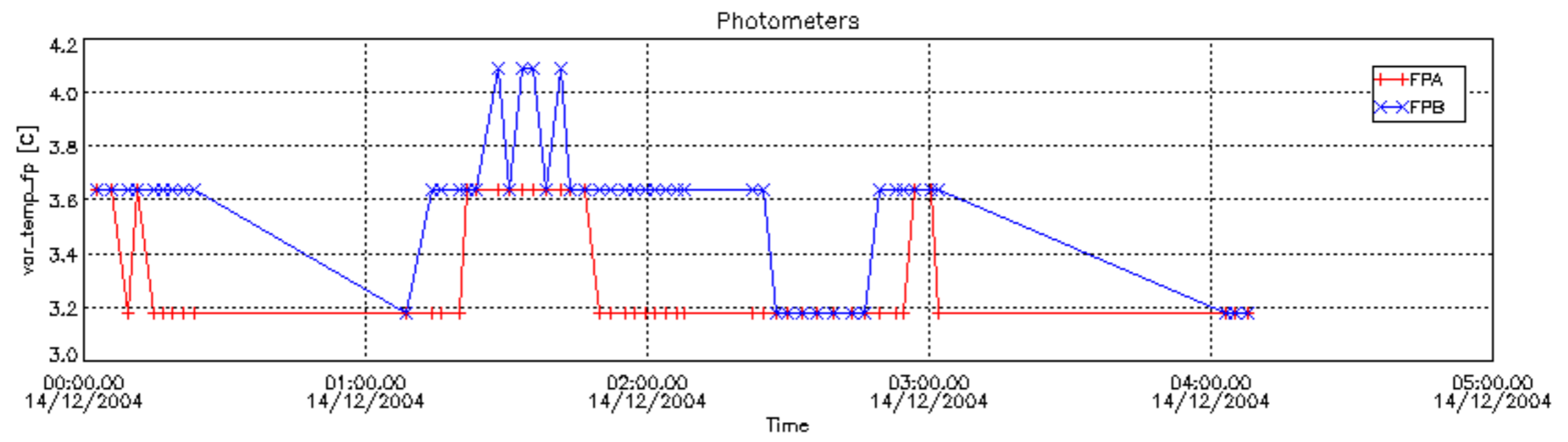
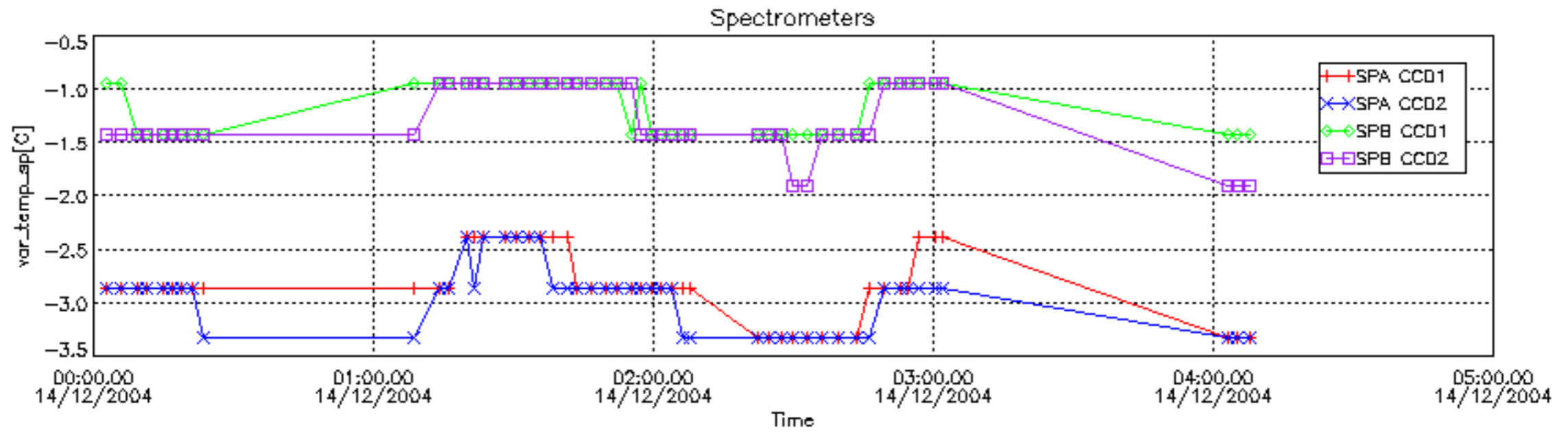
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

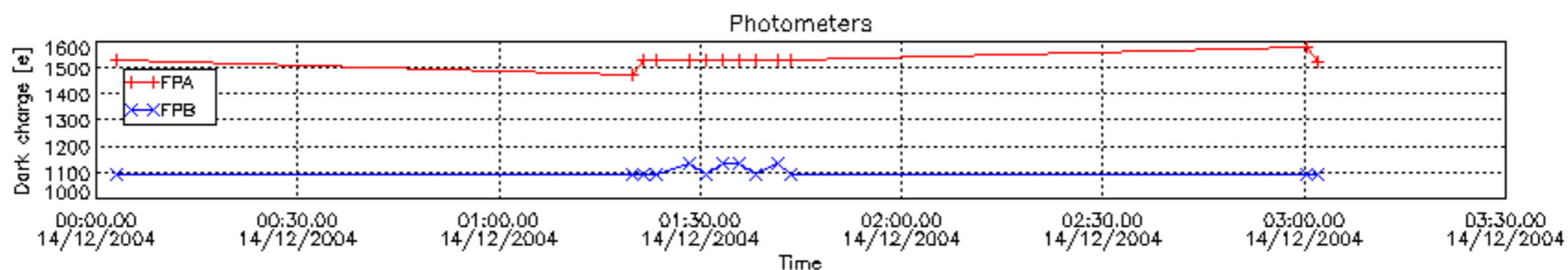
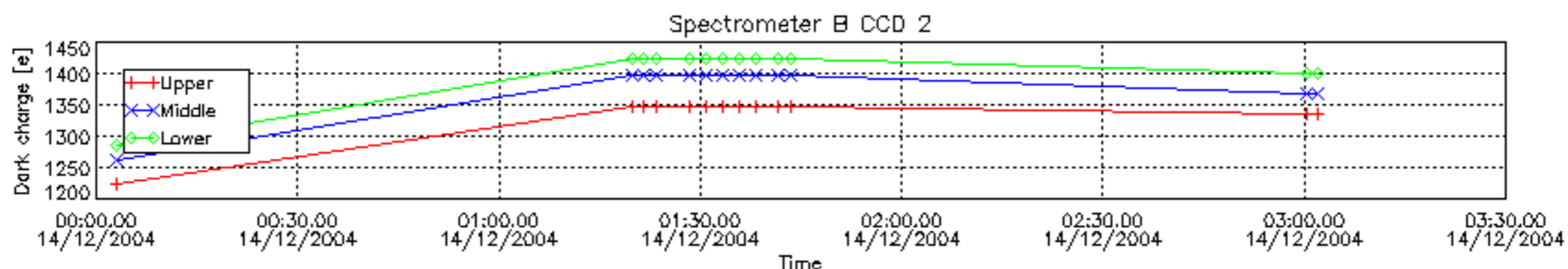
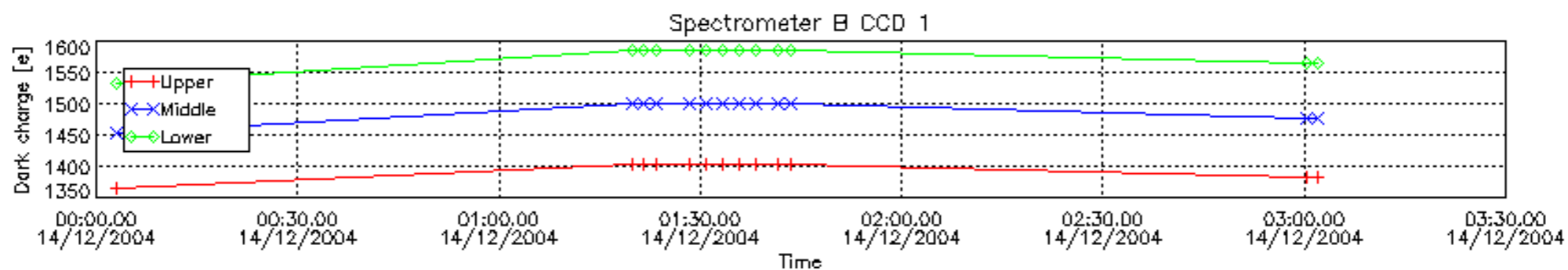
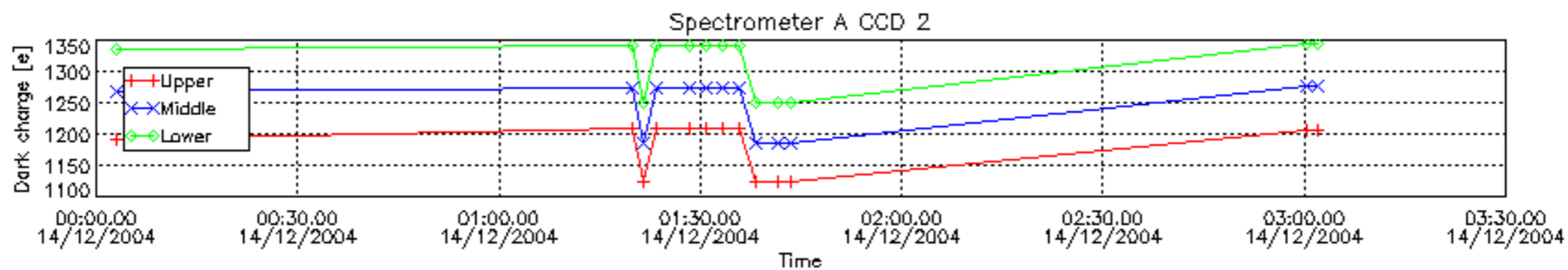
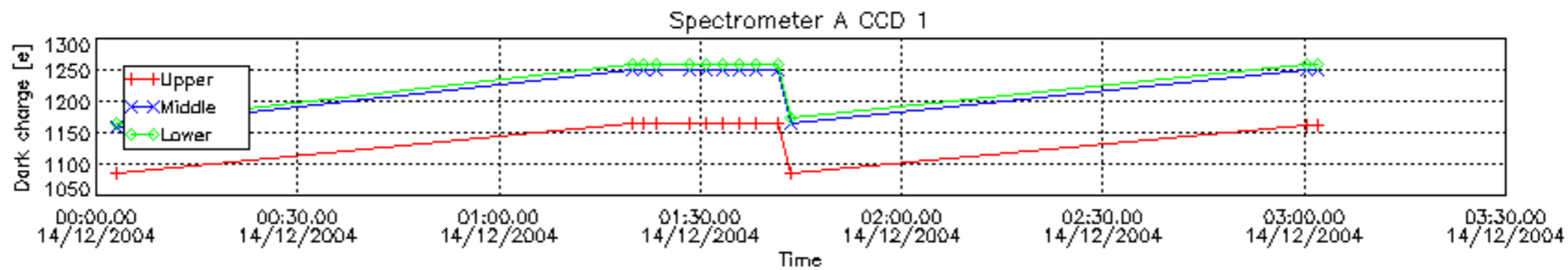
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1446.9	1461.8	1447.7
St. deviation:	5.1206	7.0184	7.6677	9.2474
Maximum:	1512.0	1496.0	1519.0	1509.0
Minimum:	1448.0	1427.0	1441.0	1422.0
Number of data:	16400.	16400.	32450.	32450.

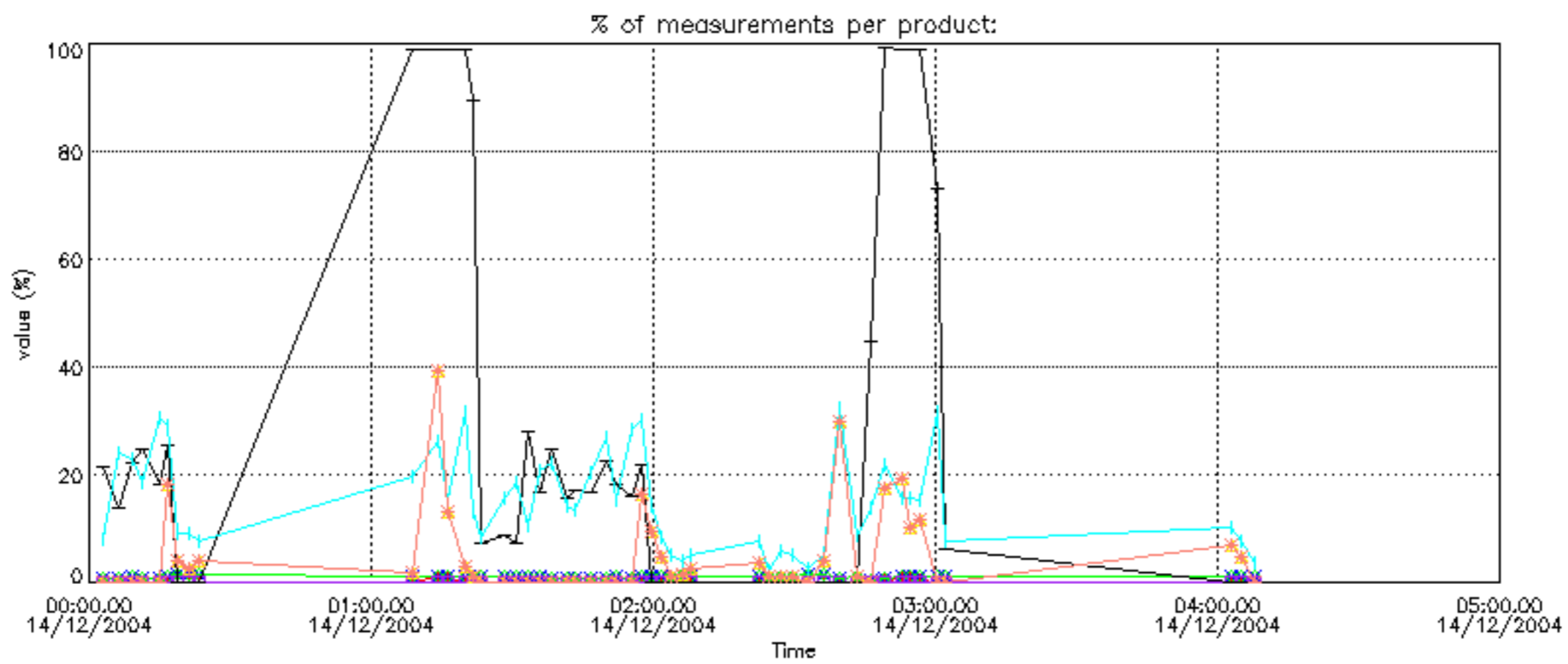
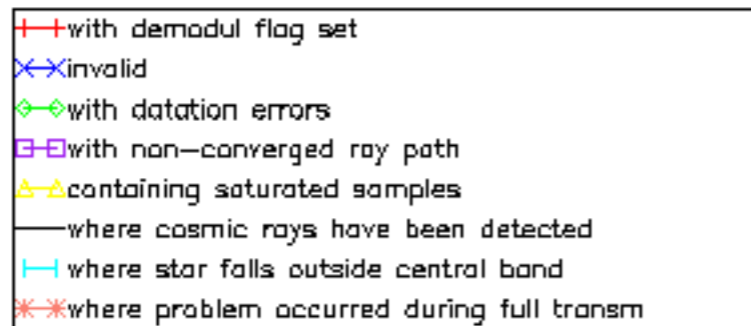
8. Auxiliary Data Files used for the production reported in section 2.2

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.

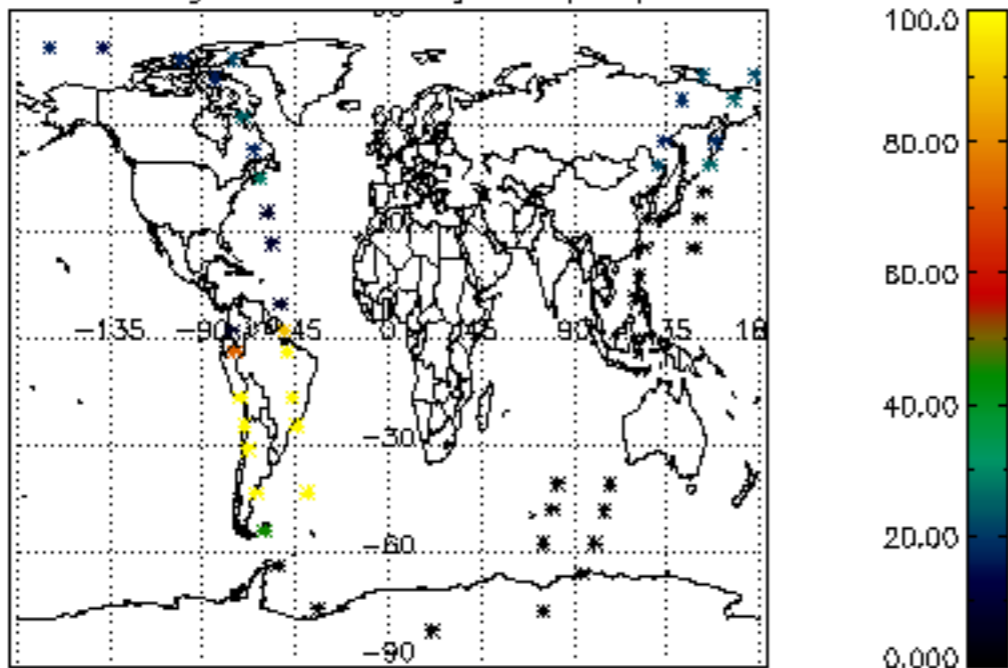
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	14-DEC-2004 00:02:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041207_081221_20041205_000000_20100101_000000	1	14-DEC-2004 00:02:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041213_094740_20041211_000000_20100101_000000	33	14-DEC-2004 02:22:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	14-DEC-2004 00:02:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-DEC-2004 00:02:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	14-DEC-2004 00:02:55
ECMWF_FILE	AUX_ECF_AXNECM20041213_060612_20041213_210000_20041214_090000	1	14-DEC-2004 00:02:55
ECMWF_FILE	AUX_ECF_AXNECM20041213_193023_20041214_030000_20041214_150000	48	14-DEC-2004 04:03:06
OPTIONAL_ECMWF_FILE	NOT USED	1	14-DEC-2004 00:02:55
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041213_234002_20041213_183826_20041223_200438	1	14-DEC-2004 00:02:55



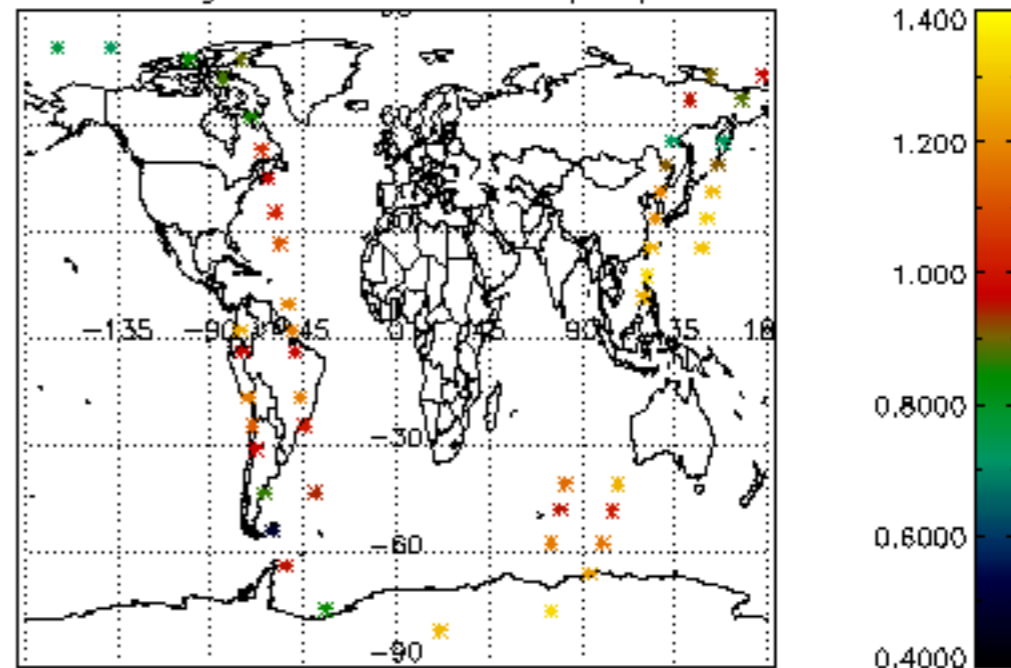




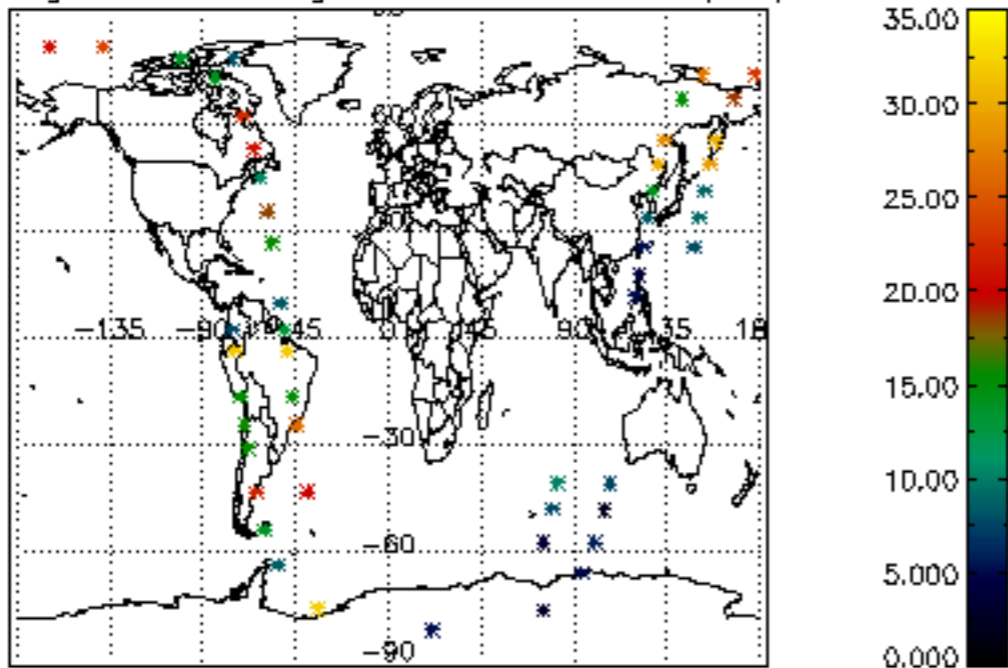
Percentage of cosmic ray hits per profile



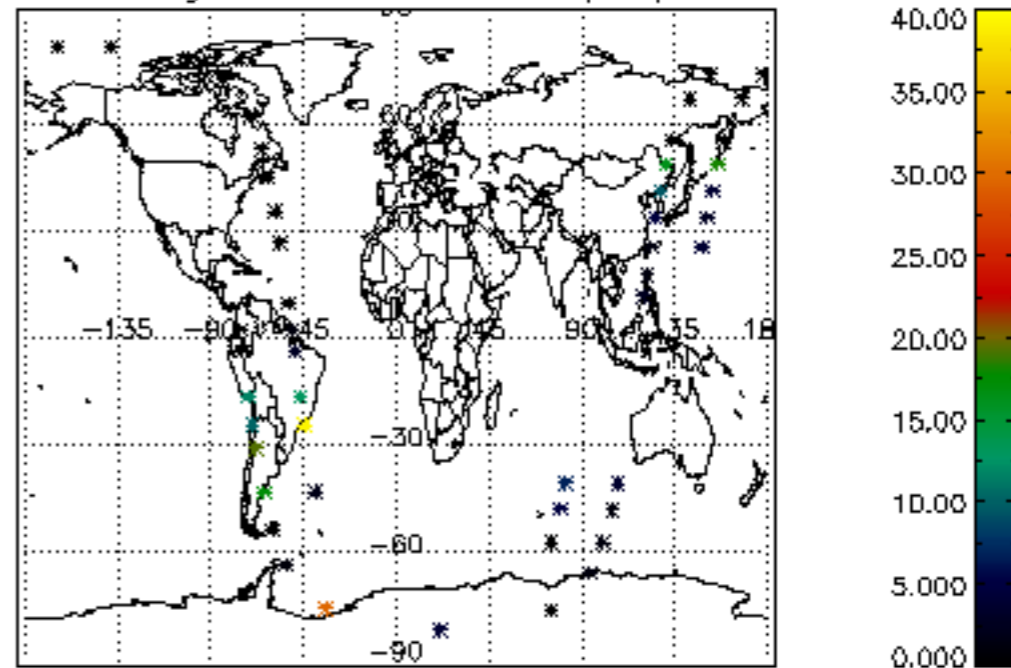
Percentage of datation errors per profile



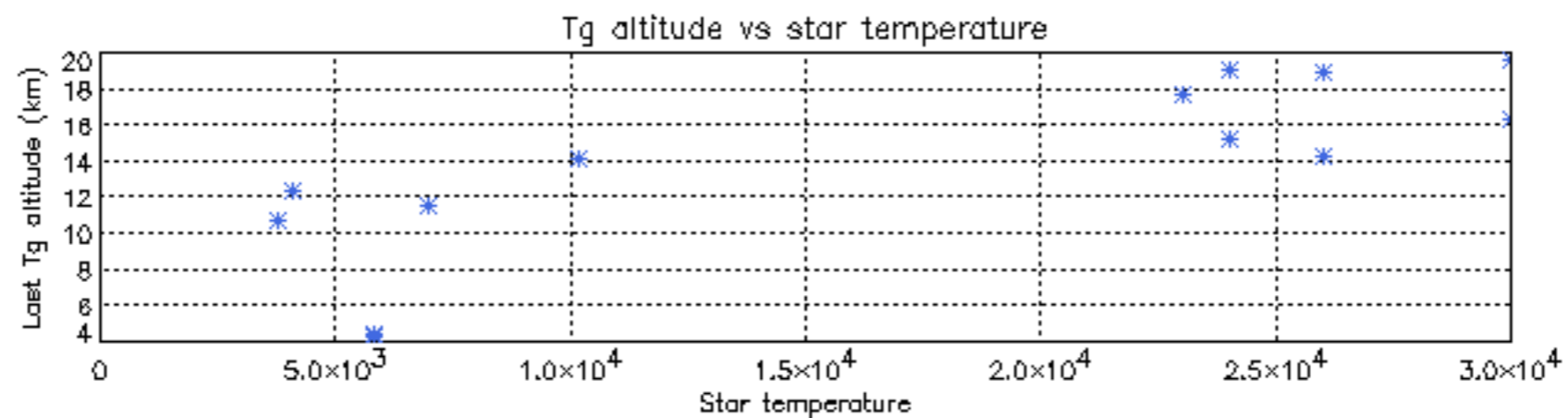
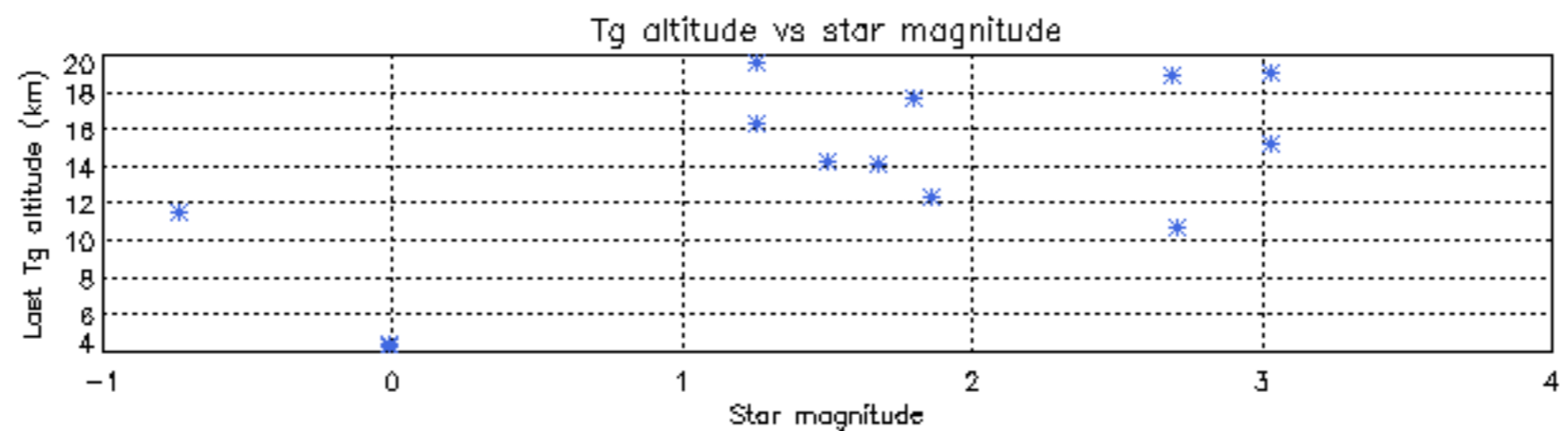
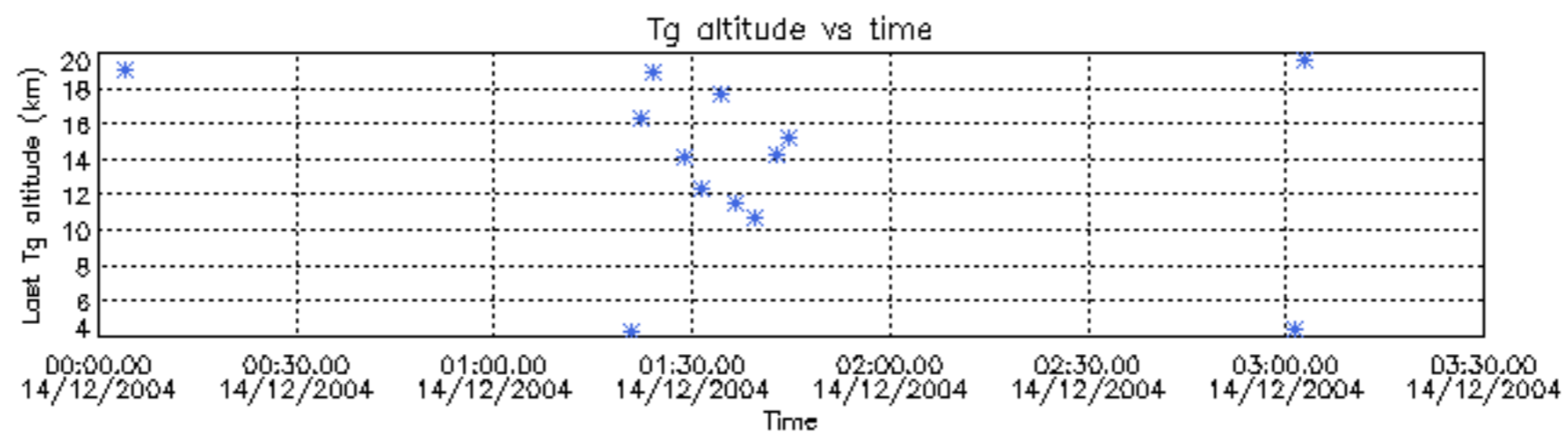
Percentage of star falling outside central band per profile



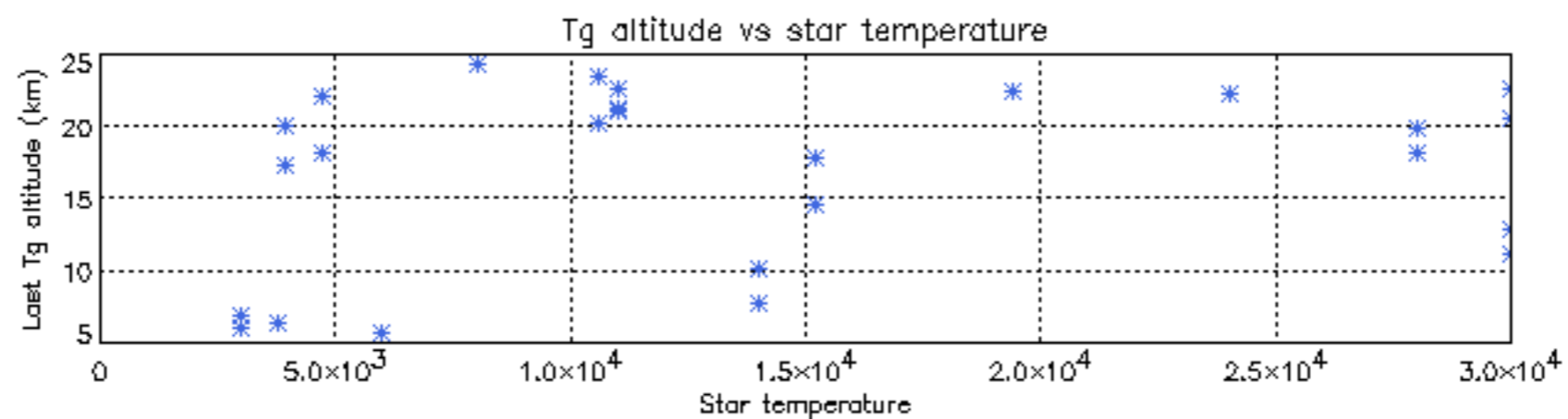
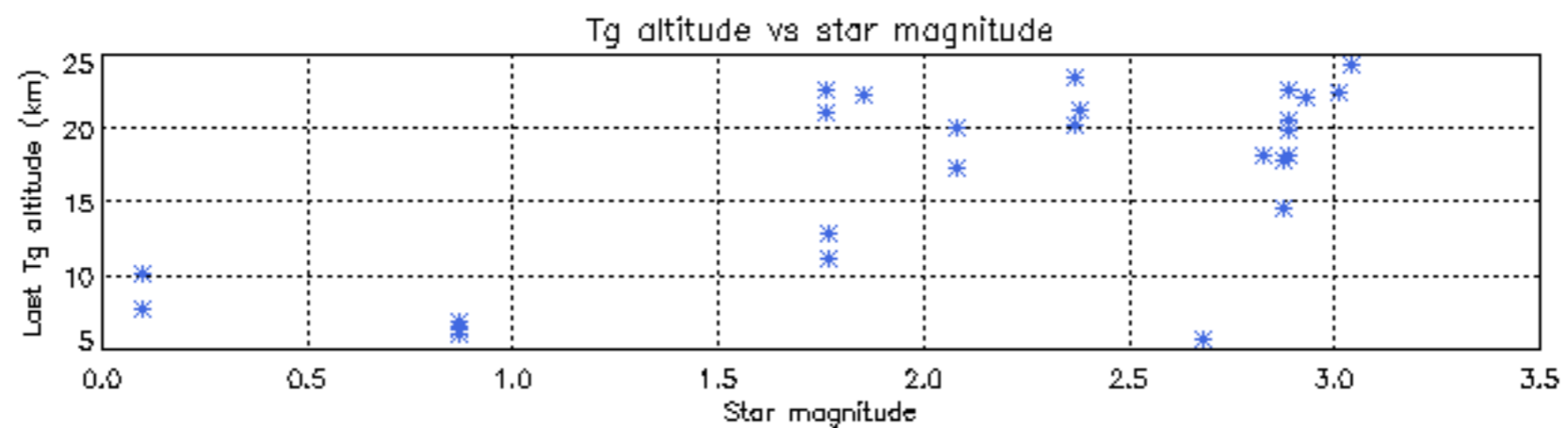
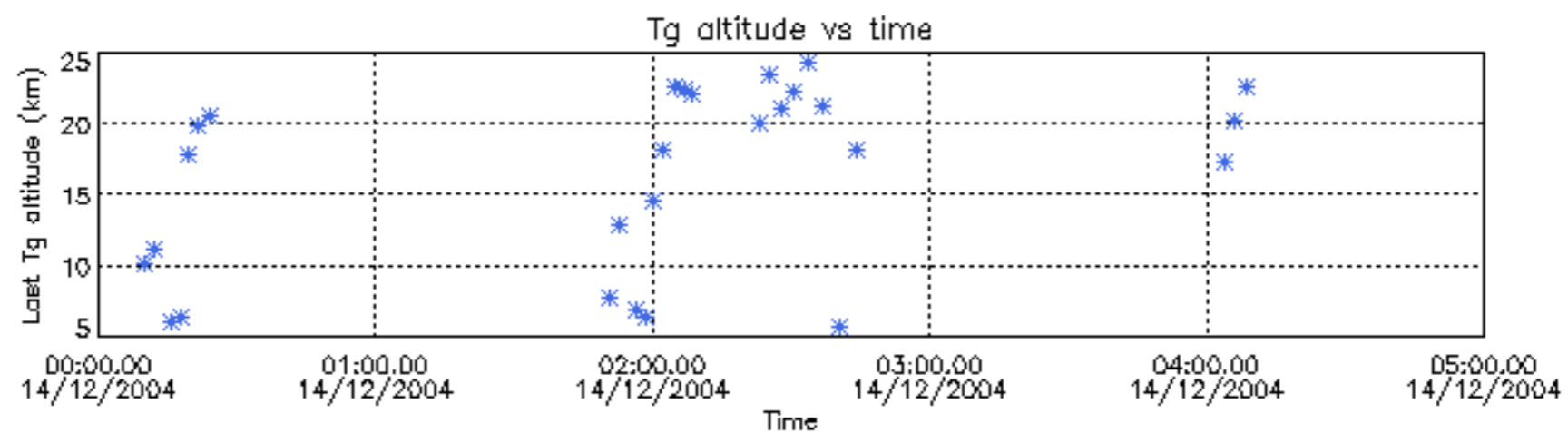
Percentage of saturation errors per profile



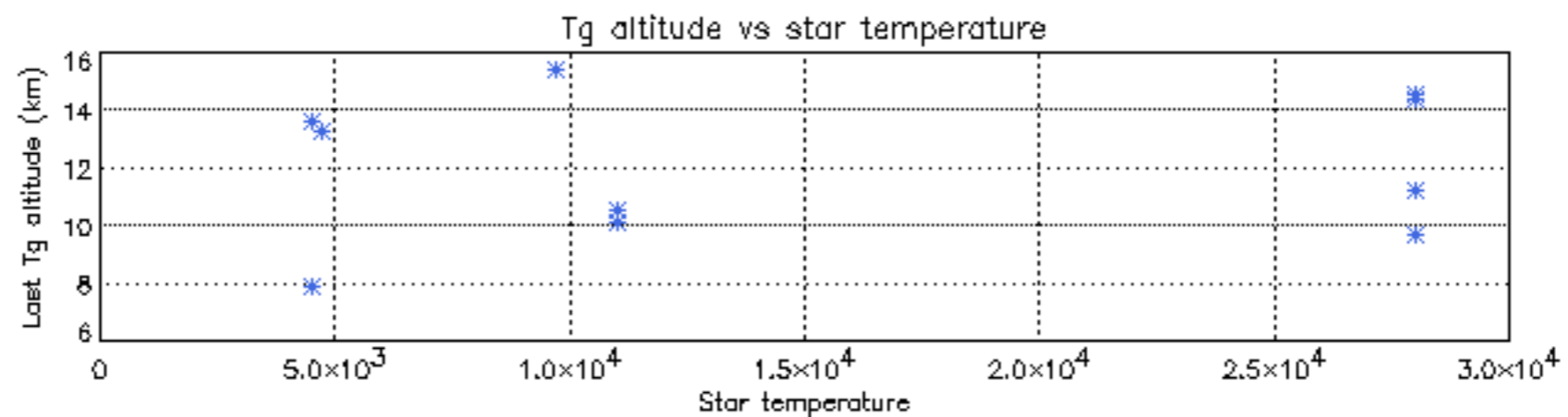
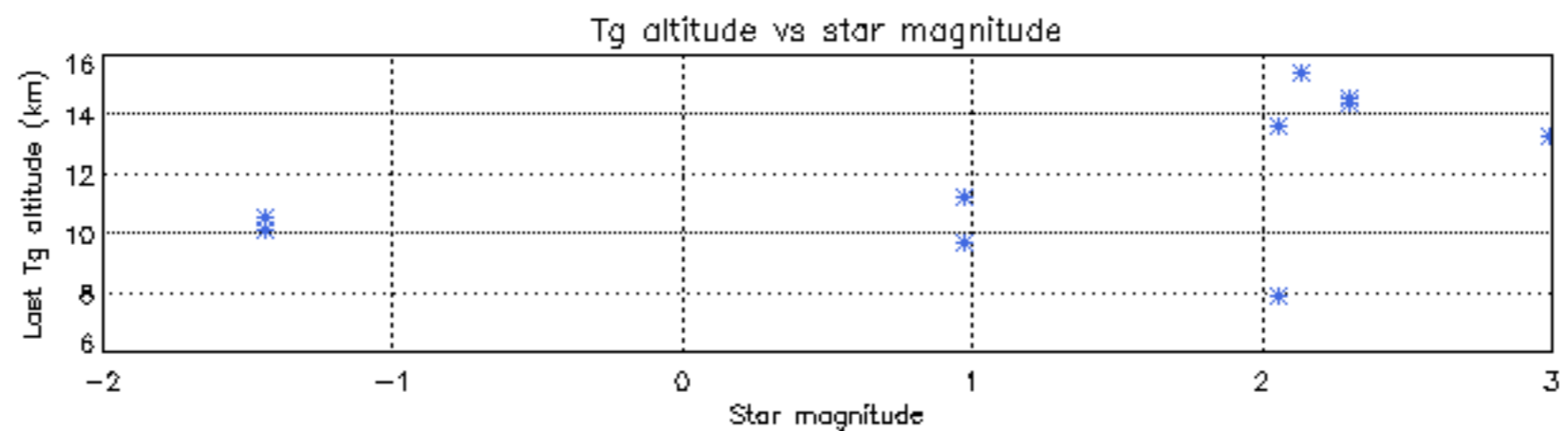
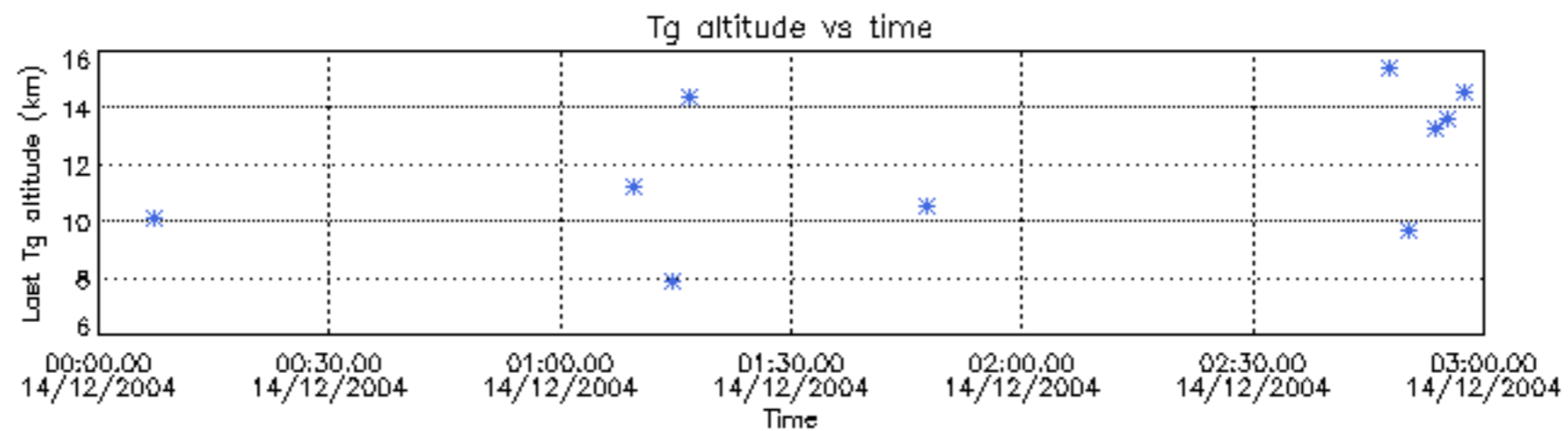
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041201_012037_000039862032_00317_14399_1281.N1

1; -532.4; 01-DEC-2004 01:20:37; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;14399
 2; -173.6; 01-DEC-2004 01:26:36; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;14399
 3; -74.8; 01-DEC-2004 01:28:15; Dark ; 49.5; 10; Bet Cen ; 0.61; 28000;occ; 99; 0;14399
 4; 41.1; 01-DEC-2004 01:30:11; Dark ; 45.0; 12; Alp1Cru ; 0.77; 30000;occ; 90; 0;14400
 5; 205.3; 01-DEC-2004 01:32:55; Dark ; 40.5; 124; The Car ; 2.76; 30000;occ; 81; 0;14400
 6; 357.9; 01-DEC-2004 01:35:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14400
 7; 483.9; 01-DEC-2004 01:37:34; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;14400
 8; 607.3; 01-DEC-2004 01:39:37; Dark ; 55.0; 34; Gam2Vel ; 1.79; 23000;occ; 110; 0;14400
 9; 806.9; 01-DEC-2004 01:42:57; Dark ; 56.5; 2; Alp Car ; -0.74; 7000;occ; 113; 0;14400
 10; 920.6; 01-DEC-2004 01:44:50; Dark ; 64.5; 117; Pi Pup ; 2.71; 3800;occ; 129; 0;14400
 11; 1148.0; 01-DEC-2004 01:48:38; Dark ; 71.0; 23; 21Eps CMA ; 1.50; 26000;occ; 142; 0;14400
 12; 1277.7; 01-DEC-2004 01:50:47; Dark ; 73.0; 179; 240mi2CMA ; 3.03; 24000;occ; 146; 0;14400
 13; 1529.6; 01-DEC-2004 01:54:59; Dark ; 107.0; 1; 9Alp CMA ; -1.44; 11000;occ; 214; 0;14400
 14; 1749.7; 01-DEC-2004 01:58:39; Dark ; 68.0; 7; 19Bet Ori ; 0.10; 14000;occ; 136; 0;14400
 15; 1929.4; 01-DEC-2004 02:01:39; Dark ; 63.5; 30; 46Eps Ori ; 1.69; 30000;occ; 127; 0;14400
 16; 2093.2; 01-DEC-2004 02:04:23; Dark ; 63.5; 27; 24Gam Ori ; 1.64; 26000;occ; 127; 0;14400
 17; 2228.0; 01-DEC-2004 02:06:38; Bright; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;14400
 18; 2325.2; 01-DEC-2004 02:08:15; Bright; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0;14400
 19; 2466.9; 01-DEC-2004 02:10:36; Bright; 41.5; 150; 44Zet Per ; 2.89; 28000;occ; 83; 0;14400
 20; 2600.6; 01-DEC-2004 02:12:50; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;14400
 21; 2734.5; 01-DEC-2004 02:15:04; Bright; 39.0; 175; 39Del Per ; 3.01; 19400;occ; 78; 0;14400
 22; 2815.2; 01-DEC-2004 02:16:25; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;14400
 23; 2957.2; 01-DEC-2004 02:18:47; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;14400
 24; 3417.2; 01-DEC-2004 02:26:27; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;14400

/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041201_023107_000057962032_00318_14400_1282.N1

1; -2338.3; 01-DEC-2004 02:31:07; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;14400
 2; -2217.7; 01-DEC-2004 02:33:08; Bright; 46.5; 36; 50Alp UMA ; 1.80; 6300;occ; 93; 0;14400
 3; -2121.5; 01-DEC-2004 02:34:44; Bright; 46.5; 82; 48Bet UMA ; 2.37; 10600;occ; 93; 0;14400
 4; -2024.4; 01-DEC-2004 02:36:21; Bright; 43.0; 32; 77Eps UMA ; 1.76; 11000;occ; 86; 0;14400
 5; -1898.3; 01-DEC-2004 02:38:27; Bright; 37.0; 39; 85Eta UMA ; 1.85; 24000;occ; 74; 0;14400
 6; -1724.8; 01-DEC-2004 02:41:21; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104; 0;14400
 7; -1545.5; 01-DEC-2004 02:44:20; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;14400
 8; -1390.8; 01-DEC-2004 02:46:55; Bright; 35.0; 3; 16Alp Boo ; -0.05; 4250;occ; 70; 0;14400
 9; -1171.0; 01-DEC-2004 02:50:35; Bright; 74.5; 96; 68Del Leo ; 2.56; 9300;occ; 149; 0;14400
 10; -914.8; 01-DEC-2004 02:54:51; Bright; 62.0; 121; 29Gam Vir ; 2.74; 7200;occ; 124; 0;14400
 11; -629.1; 01-DEC-2004 02:59:36; Dark ; 46.5; 163; 7Del Crv ; 2.94; 11000;occ; 93; 0;14400
 12; -531.4; 01-DEC-2004 03:01:14; Dark ; 48.0; 106; 9Bet Crv ; 2.65; 5600;occ; 96; 0;14400
 13; -413.6; 01-DEC-2004 03:03:12; Dark ; 40.0; 123; Tot Cen ; 2.75; 10200;occ; 80; 0;14400
 14; -172.8; 01-DEC-2004 03:07:13; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;14400
 15; -74.7; 01-DEC-2004 03:08:51; Dark ; 48.5; 10; Bet Cen ; 0.61; 28000;occ; 97; 0;14400
 16; 206.2; 01-DEC-2004 03:13:32; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;14401
 17; 360.9; 01-DEC-2004 03:16:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14401
 18; 484.6; 01-DEC-2004 03:18:10; Dark ; 49.0; 41; Eps Car ; 1.86; 4100;occ; 98; 0;14401
 19; 608.3; 01-DEC-2004 03:20:14; Dark ; 59.5; 34; Gam2Vel ; 1.79; 23000;occ; 119; 0;14401
 20; 807.5; 01-DEC-2004 03:23:33; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;14401
 21; 919.8; 01-DEC-2004 03:25:25; Dark ; 67.5; 117; Pi Pup ; 2.71; 3800;occ; 135; 0;14401
 22; 1148.8; 01-DEC-2004 03:29:14; Dark ; 69.0; 23; 21Eps CMA ; 1.50; 26000;occ; 138; 0;14401
 23; 1277.8; 01-DEC-2004 03:31:23; Dark ; 73.5; 179; 240mi2CMA ; 3.03; 24000;occ; 147; 0;14401
 24; 1529.8; 01-DEC-2004 03:35:35; Dark ; 88.5; 1; 9Alp CMA ; -1.44; 11000;occ; 177; 0;14401
 25; 1747.9; 01-DEC-2004 03:39:13; Dark ; 65.0; 7; 19Bet Ori ; 0.10; 14000;occ; 130; 0;14401
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4;	-4158.0;	22-DEC-2004	11:03:58;	Dark	;	48.5;	30;	46Eps Ori	;	1.69;	30000;occ;	97;	0;	14706
5;	-3989.0;	22-DEC-2004	11:06:47;	Dark	;	57.0;	14;	58Alp Ori	;	0.87;	3000;occ;	114;	0;	14706
6;	-3849.0;	22-DEC-2004	11:09:07;	Dark	;	52.0;	13;	87Alp Tau	;	0.87;	3800;occ;	104;	0;	14706
7;	-3743.8;	22-DEC-2004	11:10:52;	Bright;	42.5;	176;	23Zet Tau	;	3.02;	22000;occ;	85;	0;	14706	
8;	-3620.2;	22-DEC-2004	11:12:55;	Bright;	42.5;	28;	12Bet Tau	;	1.65;	15200;occ;	85;	0;	14706	
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12;	-2984.5;	22-DEC-2004	11:23:31;	Bright;	37.5;	110;	37Del Cas	;	2.68;	8900;occ;	75;	0;	14706	
13;	-2617.9;	22-DEC-2004	11:29:38;	Bright;	40.5;	49;	1Alp UMi	;	1.99;	6300;occ;	81;	0;	14706	
14;	-2336.5;	22-DEC-2004	11:34:19;	Bright;	41.5;	60;	7Bet UMi	;	2.08;	3950;occ;	83;	0;	14706	
15;	-2128.4;	22-DEC-2004	11:37:47;	Bright;	40.5;	119;	14Eta Dra	;	2.73;	4700;occ;	81;	0;	14706	
16;	-2031.9;	22-DEC-2004	11:39:24;	Bright;	44.0;	55;	79Zet UMa	;	2.06;	10200;occ;	88;	0;	14706	
17;	-1908.2;	22-DEC-2004	11:41:27;	Bright;	42.5;	39;	85Eta UMa	;	1.85;	24000;occ;	85;	0;	14706	
18;	-1691.7;	22-DEC-2004	11:45:04;	Bright;	56.0;	180;	27Gam Boo	;	3.04;	8000;occ;	112;	0;	14706	
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21;	-992.1;	22-DEC-2004	11:56:43;	Dark	;	69.0;	138;	47Eps Vir	;	2.83;	4700;occ;	138;	0;	14706
22;	-752.7;	22-DEC-2004	12:00:43;	Bright;	51.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	103;	0;	14706	
23;	-630.1;	22-DEC-2004	12:02:45;	Dark	;	55.5;	15;	67Alp Vir	;	0.98;	28000;occ;	111;	0;	14706
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25;	-244.7;	22-DEC-2004	12:09:11;	Dark	;	40.5;	78;	Alp Lup	;	2.30;	28000;occ;	81;	0;	14706
26;	-39.1;	22-DEC-2004	12:12:36;	Dark	;	44.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	88;	0;	14706
27;	163.1;	22-DEC-2004	12:15:59;	Dark	;	43.0;	12;	Alp1Cru	;	0.77;	30000;occ;	86;	0;	14707
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30;	553.2;	22-DEC-2004	12:22:29;	Dark	;	42.5;	71;	Iot Car	;	2.25;	7700;occ;	85;	0;	14707
31;	666.1;	22-DEC-2004	12:24:22;	Dark	;	45.0;	46;	Del Vel	;	1.95;	10600;occ;	90;	0;	14707
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33;	937.4;	22-DEC-2004	12:28:53;	Dark	;	50.5;	2;	Alp Car	;	-0.74;	7000;occ;	101;	0;	14707
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3;	-4158.5;	22-DEC-2004	12:44:33;	Dark	;	48.0;	30;	46Eps Ori	;	1.69;	30000;occ;	96;	0;	14707
4;	-3990.9;	22-DEC-2004	12:47:21;	Dark	;	58.5;	14;	58Alp Ori	;	0.87;	3000;occ;	117;	0;	14707

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16;-1908.4; 22-DEC-2004 13:22:03; Bright; 42.5; 39; 85Eta UMa ; 1.85; 24000;occ; 85; 0;14707
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29; 553.8; 22-DEC-2004 14:03:05; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;14708
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24;	-627.4;	22-DEC-2004	17:04:36;	Dark	;	58.0;	15;	67Alp Vir	;	0.98;	28000;occ;	116;	0;	14709
25;	-352.7;	22-DEC-2004	17:09:11;	Dark	;	46.0;	54;	5The Cen	;	2.06;	4500;occ;	92;	0;	14709
26;	-244.2;	22-DEC-2004	17:10:59;	Dark	;	39.5;	78;	Alp Lup	;	2.30;	28000;occ;	79;	0;	14709
27;	-37.9;	22-DEC-2004	17:14:25;	Dark	;	45.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	91;	0;	14709
28;	95.9;	22-DEC-2004	17:16:39;	Dark	;	46.5;	20;	Bet Cru	;	1.25;	30000;occ;	93;	0;	14710
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30;	361.5;	22-DEC-2004	17:21:05;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	14710
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33;	661.8;	22-DEC-2004	17:26:05;	Dark	;	49.5;	41;	Eps Car	;	1.86;	4100;occ;	99;	0;	14710
34;	841.4;	22-DEC-2004	17:29:05;	Dark	;	45.0;	34;	Gam2Vel	;	1.79;	23000;occ;	90;	0;	14710
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22; -1481.2; 25-DEC-2004 18:36:43; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;14753
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 33; 580.5; 25-DEC-2004 19:11:05; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;14754
 34; 684.2; 25-DEC-2004 19:12:48; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;14754
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 34; 604.3; 25-DEC-2004 20:52:04; Dark ; 46.5; 91; Kap Vel ; 2.49; 26000;occ; 93; 0;14755
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