

GOMOS Daily Report 21-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	23DEC2004 05:02:55

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (21DEC2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (22DEC2004 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

2. Summary of products arrived in PCF (Product Control Facility)

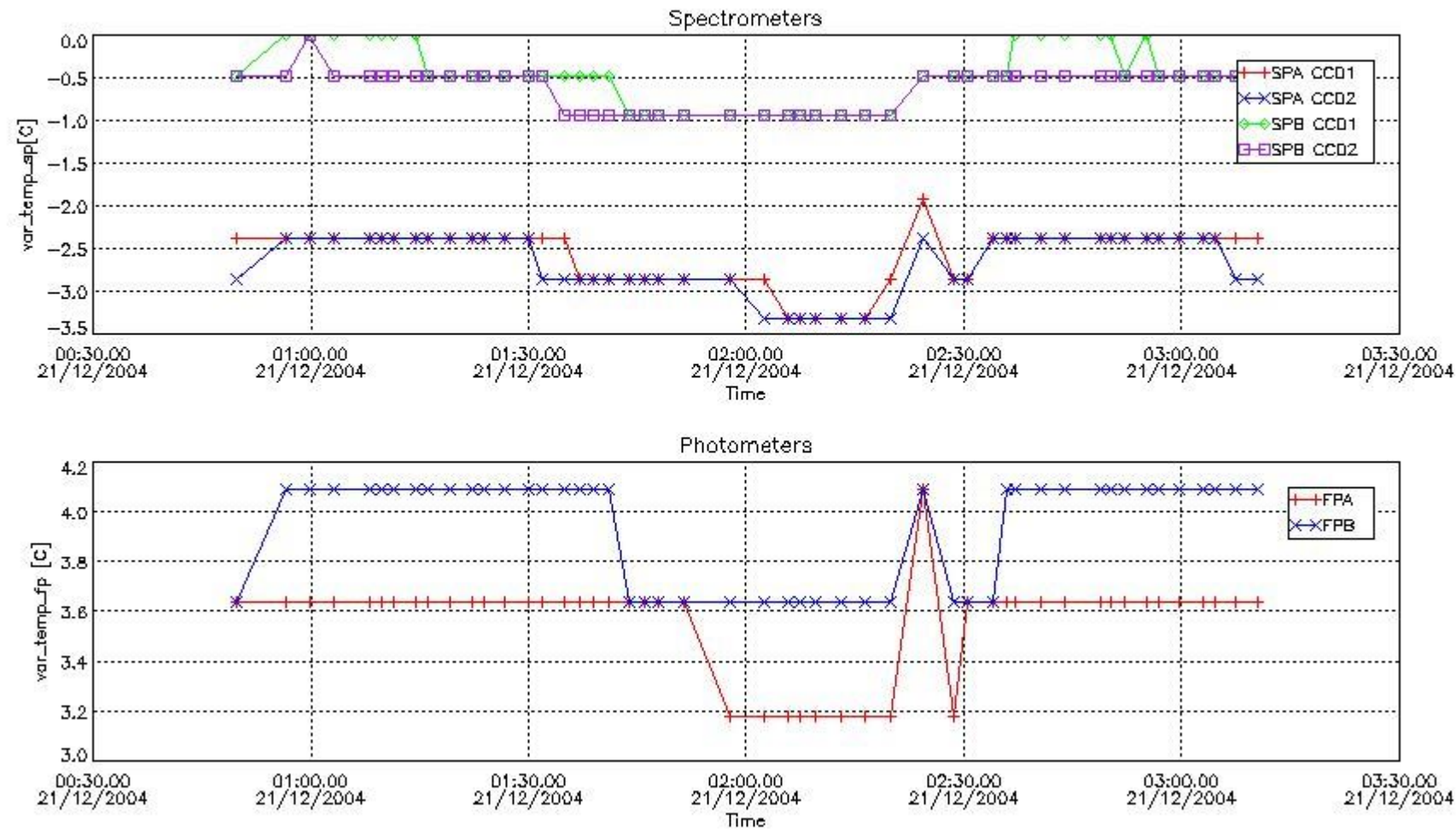
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20041221_004951_000000542033_00102_14685_0000.N1	21-DEC-2004 00:49:51	Twilight	53.500	15	67Alp Vir	0.97600	28000.	107	14685	No
2	GOM_TRA_1PNPDE20041221_005629_000000412033_00102_14685_0001.N1	21-DEC-2004 00:56:29	Twilight	40.500	78	Alp Lup	2.3040	28000.	81	14685	No
3	GOM_TRA_1PNPDE20041221_005957_000000492033_00102_14685_0002.N1	21-DEC-2004 00:59:57	Dark	49.000	4	Alp1Cen	-0.010000	5800.0	98	14685	No
4	GOM_TRA_1PNPDE20041221_010314_000000462033_00103_14686_0003.N1	21-DEC-2004 01:03:14	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	14686	No
5	GOM_TRA_1PNPDE20041221_010813_000000412033_00103_14686_0004.N1	21-DEC-2004 01:08:13	Dark	40.500	159	Ups Car	2.9200	7200.0	81	14686	No
6	GOM_TRA_1PNPDE20041221_010940_000000472033_00103_14686_0005.N1	21-DEC-2004 01:09:40	Dark	47.000	71	lot Car	2.2460	7700.0	94	14686	No
7	GOM_TRA_1PNPDE20041221_011129_000000522033_00103_14686_0006.N1	21-DEC-2004 01:11:29	Dark	52.000	41	Eps Car	1.8600	4100.0	104	14686	No
8	GOM_TRA_1PNPDE20041221_011425_000000562033_00103_14686_0007.N1	21-DEC-2004 01:14:25	Dark	55.500	34	Gam2Vel	1.7930	23000.	111	14686	No
9	GOM_TRA_1PNPDE20041221_011611_000000542033_00103_14686_0008.N1	21-DEC-2004 01:16:11	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	14686	No
10	GOM_TRA_1PNPDE20041221_011906_000000522033_00103_14686_0009.N1	21-DEC-2004 01:19:06	Dark	52.000	117	Pi Pup	2.7060	3800.0	104	14686	No
11	GOM_TRA_1PNPDE20041221_012210_000000542033_00103_14686_0010.N1	21-DEC-2004 01:22:10	Dark	53.500	23	21Eps CMa	1.5020	26000.	107	14686	No
12	GOM_TRA_1PNPDE20041221_012354_000000552033_00103_14686_0011.N1	21-DEC-2004 01:23:54	Dark	55.000	179	24Omi2CMa	3.0320	24000.	110	14686	No
13	GOM_TRA_1PNPDE20041221_012641_000000642033_00103_14686_0012.N1	21-DEC-2004 01:26:41	Twilight	63.500	1	9Alp CMa	-1.4400	11000.	127	14686	No
14	GOM_TRA_1PNPDE20041221_012953_000000502033_00103_14686_0013.N1	21-DEC-2004 01:29:53	Bright	50.000	7	19Bet Ori	0.10000	14000.	100	14686	No
15	GOM_TRA_1PNPDE20041221_013159_000000492033_00103_14686_0014.N1	21-DEC-2004 01:31:59	Bright	49.000	30	46Eps Ori	1.6940	30000.	98	14686	No
16	GOM_TRA_1PNPDE20041221_013453_000000562033_00103_14686_0015.N1	21-DEC-2004 01:34:53	Bright	56.000	14	58Alp Ori	0.87000	3000.0	112	14686	No
17	GOM_TRA_1PNPDE20041221_013707_000000482033_00103_14686_0016.N1	21-DEC-2004 01:37:07	Bright	47.500	13	87Alp Tau	0.86700	3800.0	95	14686	No
18	GOM_TRA_1PNPDE20041221_013857_000000452033_00103_14686_0017.N1	21-DEC-2004 01:38:57	Bright	45.000	176	23Zet Tau	3.0200	22000.	90	14686	No
19	GOM_TRA_1PNPDE20041221_014102_000000432033_00103_14686_0018.N1	21-DEC-2004 01:41:02	Bright	43.000	28	12Bet Tau	1.6500	15200.	86	14686	No
20	GOM_TRA_1PNPDE20041221_014347_000000402033_00103_14686_0019.N1	21-DEC-2004 01:43:47	Bright	39.500	149	45Eps Per	2.8880	30000.	79	14686	No
21	GOM_TRA_1PNPDE20041221_014603_000000372033_00103_14686_0020.N1	21-DEC-2004 01:46:03	Bright	36.500	175	39Del Per	3.0100	19400.	73	14686	No
22	GOM_TRA_1PNPDE20041221_014757_000000382033_00103_14686_0021.N1	21-DEC-2004 01:47:57	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	14686	No
23	GOM_TRA_1PNPDE20041221_015125_000000382033_00103_14686_0022.N1	21-DEC-2004 01:51:25	Bright	37.500	110	37Del Cas	2.6780	8900.0	75	14686	No
24	GOM_TRA_1PNPDE20041221_015739_000000382033_00103_14686_0023.N1	21-DEC-2004 01:57:39	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	14686	No
25	GOM_TRA_1PNPDE20041221_020222_000000392033_00103_14686_0024.N1	21-DEC-2004 02:02:22	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	14686	No
26	GOM_TRA_1PNPDE20041221_020548_000000382033_00103_14686_0025.N1	21-DEC-2004 02:05:48	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	14686	No
27	GOM_TRA_1PNPDE20041221_020729_000000452033_00103_14686_0026.N1	21-DEC-2004 02:07:29	Bright	44.500	55	79Zet UMa	2.0600	10200.	89	14686	No
28	GOM_TRA_1PNPDE20041221_020930_000000602033_00103_14686_0027.N1	21-DEC-2004 02:09:30	Bright	60.000	39	85Eta UMa	1.8540	24000.	120	14686	No
29	GOM_TRA_1PNPDE20041221_021301_000000422033_00103_14686_0028.N1	21-DEC-2004 02:13:01	Bright	42.000	180	27Gam Boo	3.0400	8000.0	84	14686	No
30	GOM_TRA_1PNPDE20041221_021623_000000412033_00103_14686_0029.N1	21-DEC-2004 02:16:23	Bright	41.000	83		2.3780	11000.	82	14686	No
31	GOM_TRA_1PNPDE20041221_021956_000000642033_00103_14686_0030.N1	21-DEC-2004 02:19:56	Bright	64.000	111	8Eta Boo	2.6800	6000.0	128	14686	No
32	GOM_TRA_1PNPDE20041221_022427_000000632033_00103_14686_0000.N1	21-DEC-2004 02:24:27	Twilight	62.500	138	47Eps Vir	2.8280	4700.0	125	14686	Yes
33	GOM_TRA_1PNPDE20041221_022836_000000542033_00103_14686_0001.N1	21-DEC-2004 02:28:36	Twilight	54.000	122	9Alp2Lib	2.7470	9700.0	108	14686	No
34	GOM_TRA_1PNPDE20041221_023027_000000602033_00103_14686_0002.N1	21-DEC-2004 02:30:27	Twilight	60.000	15	67Alp Vir	0.97600	28000.	120	14686	No
35	GOM_TRA_1PNPDE20041221_023356_000000552033_00103_14686_0003.N1	21-DEC-2004 02:33:56	Twilight	55.000	169	46Gam Hya	2.9910	4700.0	110	14686	No
36	GOM_TRA_1PNPDE20041221_023553_000000402033_00103_14686_0004.N1	21-DEC-2004 02:35:53	Twilight	40.000	81	Eta Cen	2.3560	28000.	80	14686	No
37	GOM_TRA_1PNPDE20041221_023704_000000392033_00103_14686_0005.N1	21-DEC-2004 02:37:04	Twilight	38.500	78	Alp Lup	2.3040	28000.	77	14686	No
38	GOM_TRA_1PNPDE20041221_024032_000000502033_00103_14686_0006.N1	21-DEC-2004 02:40:32	Dark	49.500	4	Alp1Cen	-0.010000	5800.0	99	14686	No
39	GOM_TRA_1PNPDE20041221_024351_000000422033_00104_14687_0007.N1	21-DEC-2004 02:43:51	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	14687	No
40	GOM_TRA_1PNPDE20041221_024849_000000402033_00104_14687_0008.N1	21-DEC-2004 02:48:49	Dark	40.000	159	Ups Car	2.9200	7200.0	80	14687	No
41	GOM_TRA_1PNPDE20041221_025017_000000502033_00104_14687_0009.N1	21-DEC-2004 02:50:17	Dark	50.000	71	lot Car	2.2460	7700.0	100	14687	No
42	GOM_TRA_1PNPDE20041221_025207_000000482033_00104_14687_0010.N1	21-DEC-2004 02:52:07	Dark	48.000	41	Eps Car	1.8600	4100.0	96	14687	No
43	GOM_TRA_1PNPDE20041221_025504_000000492033_00104_14687_0011.N1	21-DEC-2004 02:55:04	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	14687	No
44	GOM_TRA_1PNPDE20041221_025648_000000542033_00104_14687_0012.N1	21-DEC-2004 02:56:48	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	14687	No
45	GOM_TRA_1PNPDE20041221_025943_000000552033_00104_14687_0013.N1	21-DEC-2004 02:59:43	Dark	55.000	117	Pi Pup	2.7060	3800.0	110	14687	No
46	GOM_TRA_1PNPDE20041221_030249_000000552033_00104_14687_0014.N1	21-DEC-2004 03:02:49	Dark	55.000	23	21Eps CMa	1.5020	26000.	110	14687	No

47	GOM_TRA_1PNPDE20041221_030431_000000542033_00104_14687_0015.N1	21-DEC-2004 03:04:31	Dark	53.500	179	24Omi2CMa	3.0320	24000.	107	14687	No
48	GOM_TRA_1PNPDE20041221_030719_000000662033_00104_14687_0016.N1	21-DEC-2004 03:07:19	Twilight	65.500	1	9Alp CMa	-1.4400	11000.	131	14687	No
49	GOM_TRA_1PNPDE20041221_031029_000000512033_00104_14687_0017.N1	21-DEC-2004 03:10:29	Bright	50.500	7	19Bet Ori	0.10000	14000.	101	14687	No

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



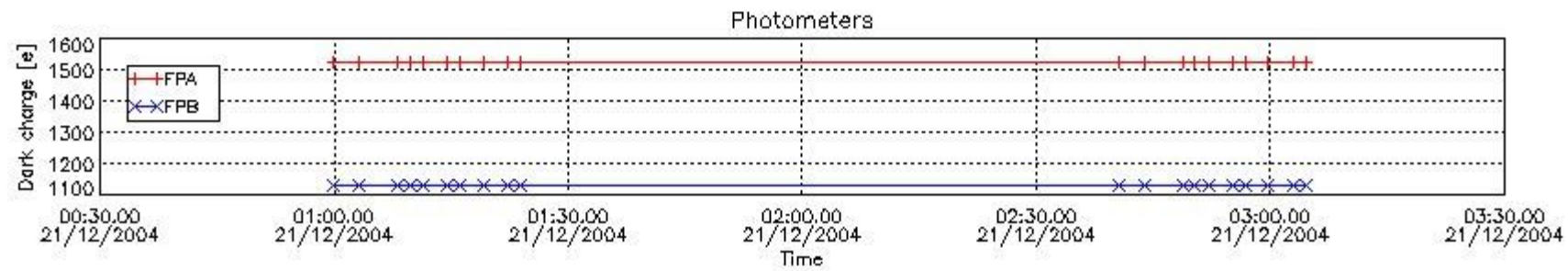
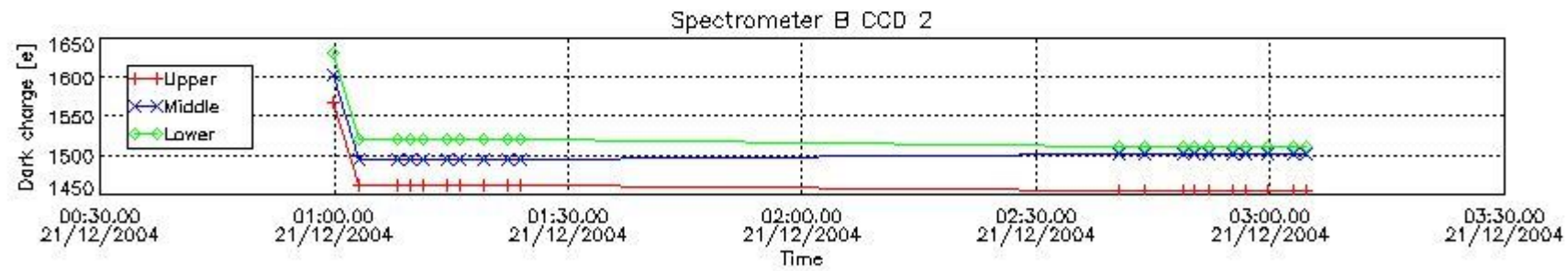
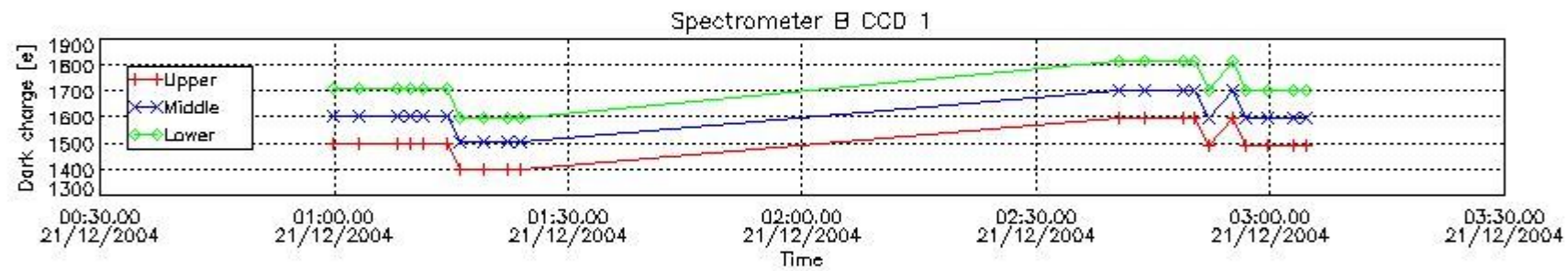
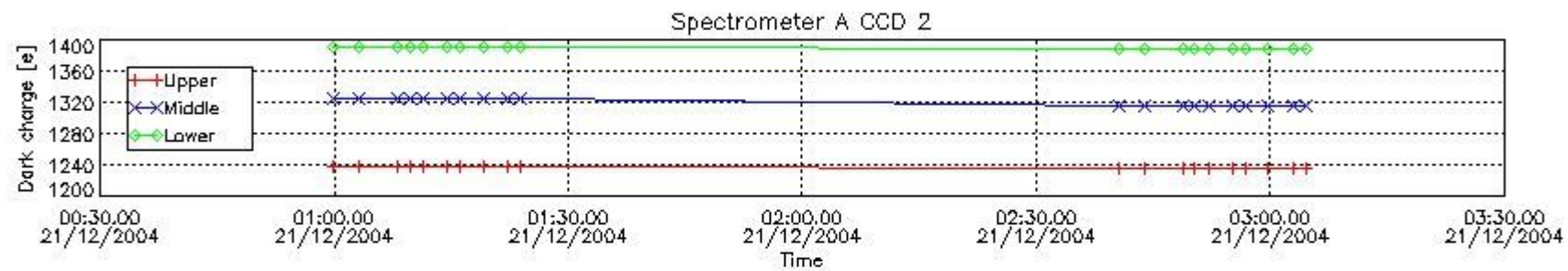
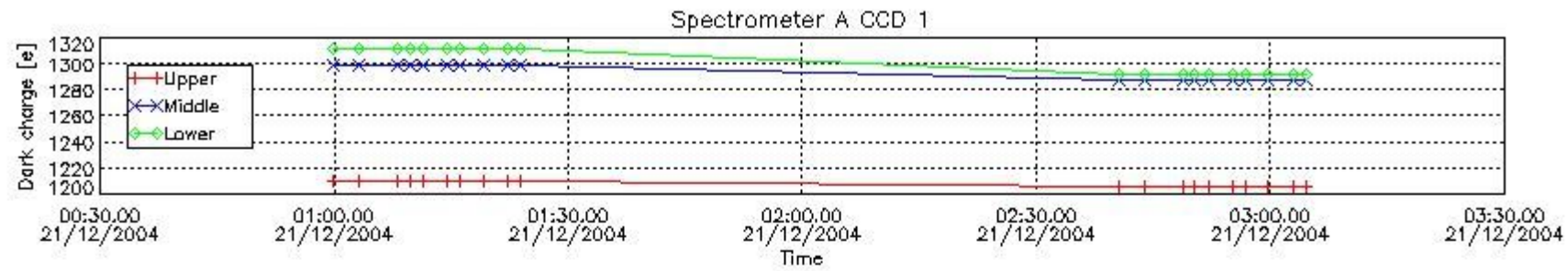
4. Overview of dark signal processing per product

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



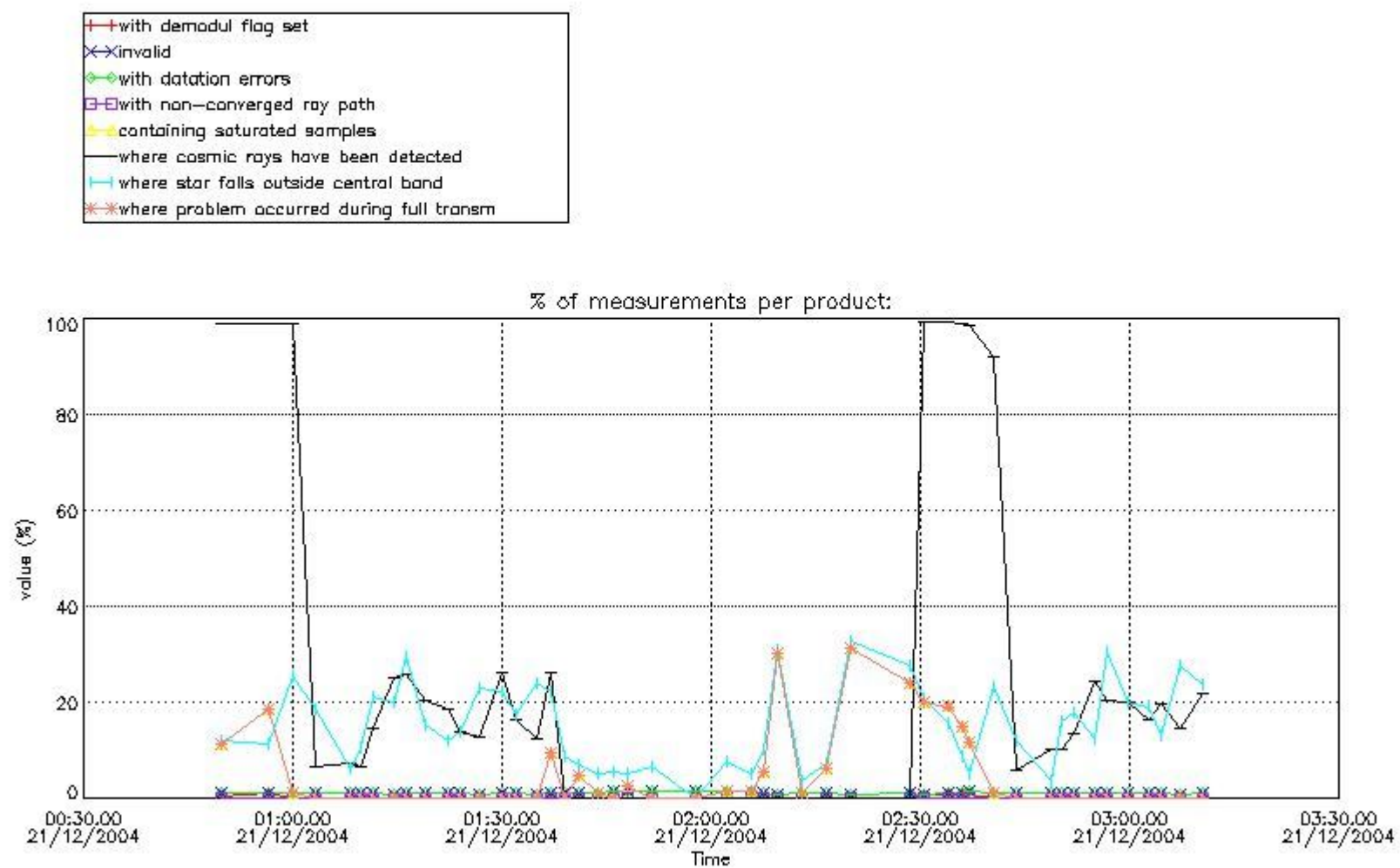
5. Demodulation flag and quality information monitoring

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.

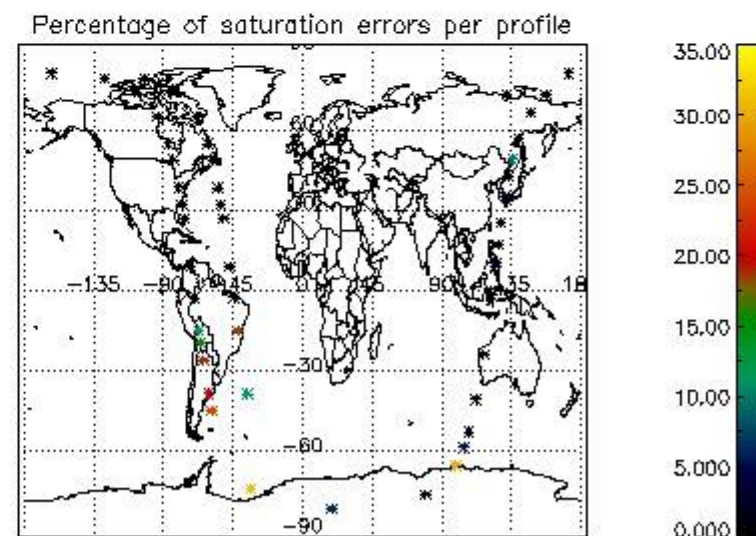
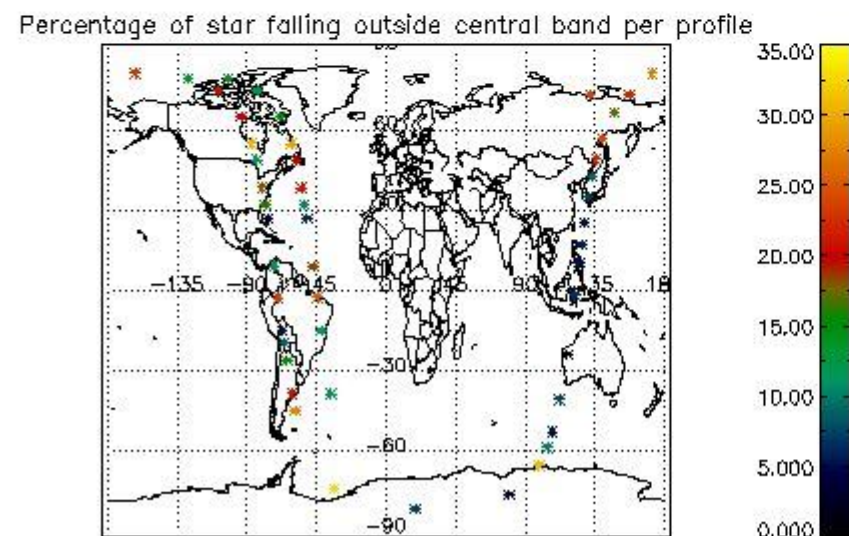
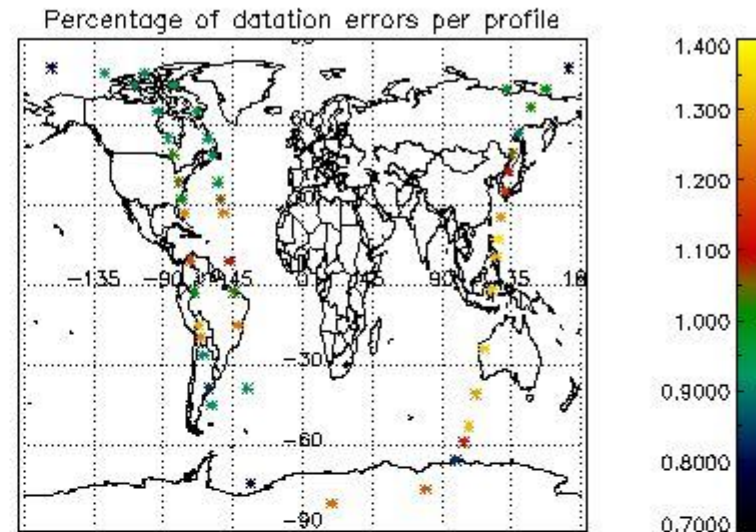
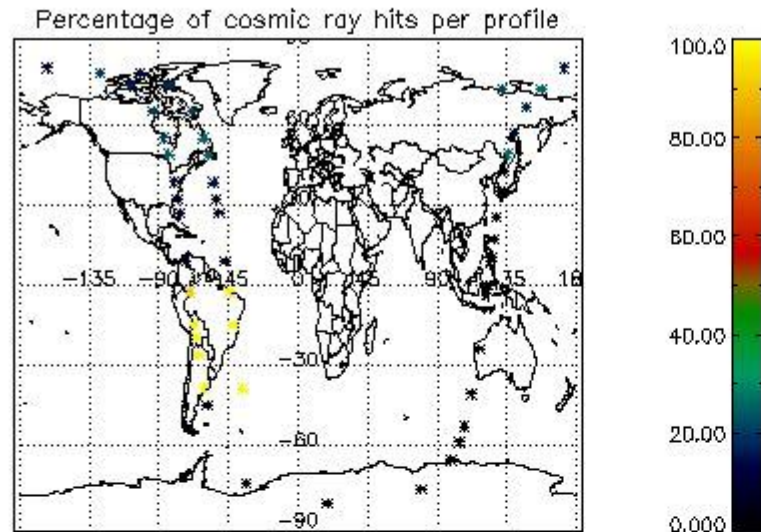
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.0000 %
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)



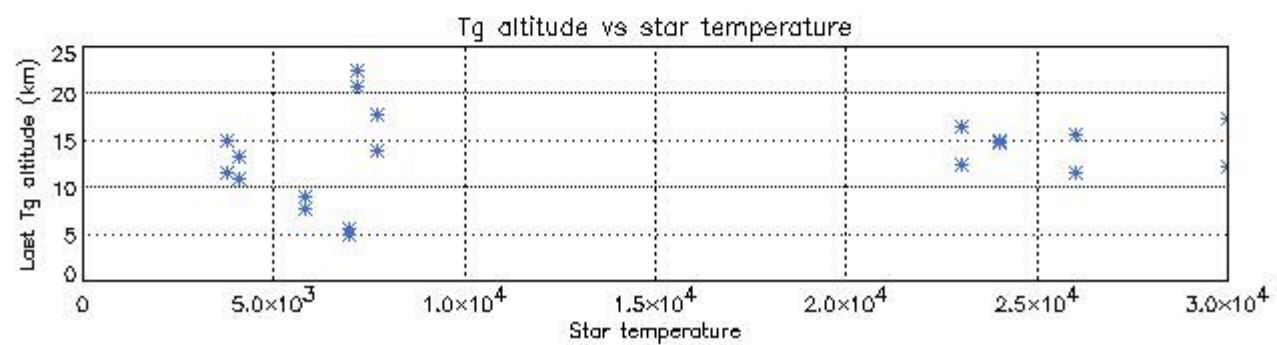
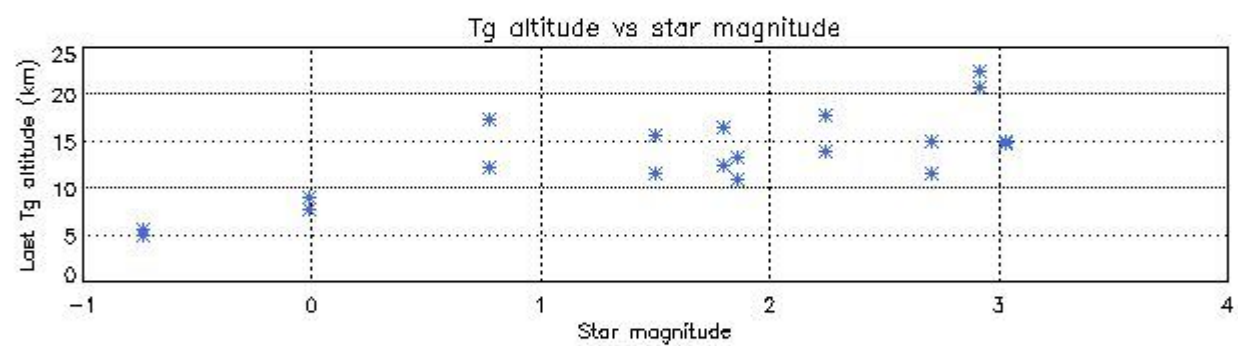
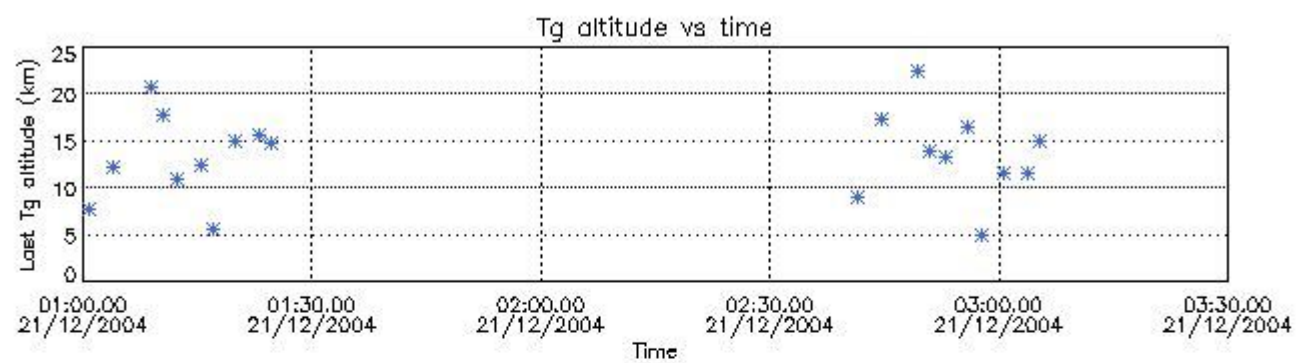
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.362	16.727	13.304
St. deviation:	4.5657	6.7734	4.9996
Maximum:	22.531	27.440	21.320
Minimum:	4.8446	4.8304	7.2106
Number of data:	20.000	19.000	9.0000

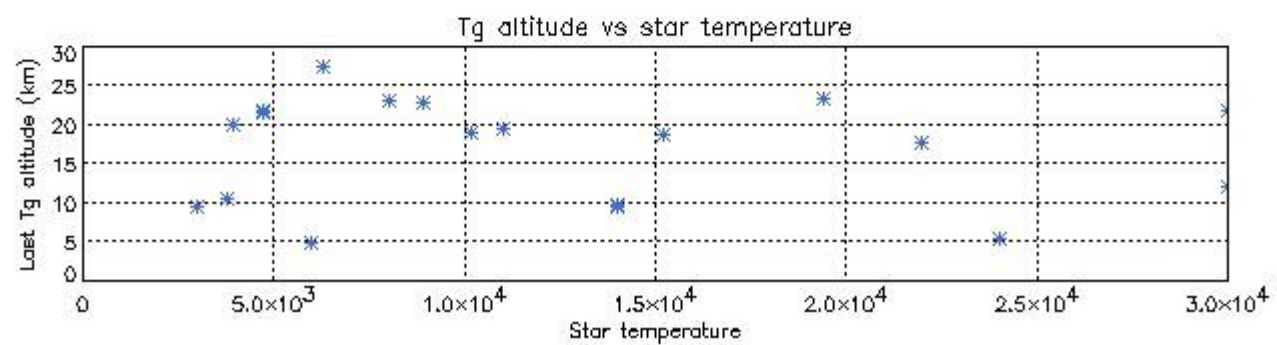
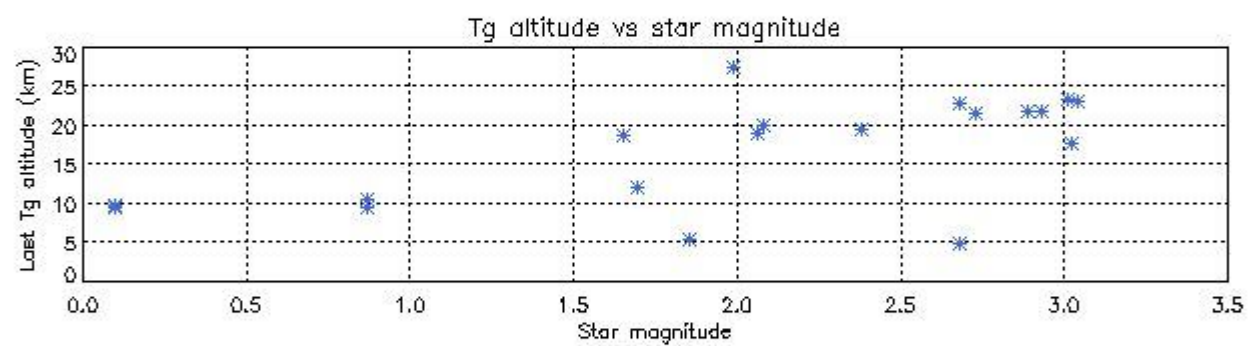
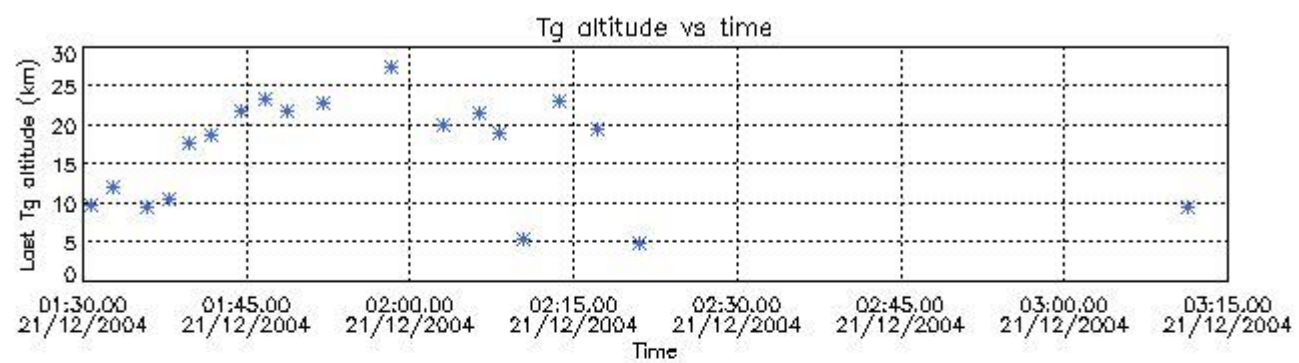
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



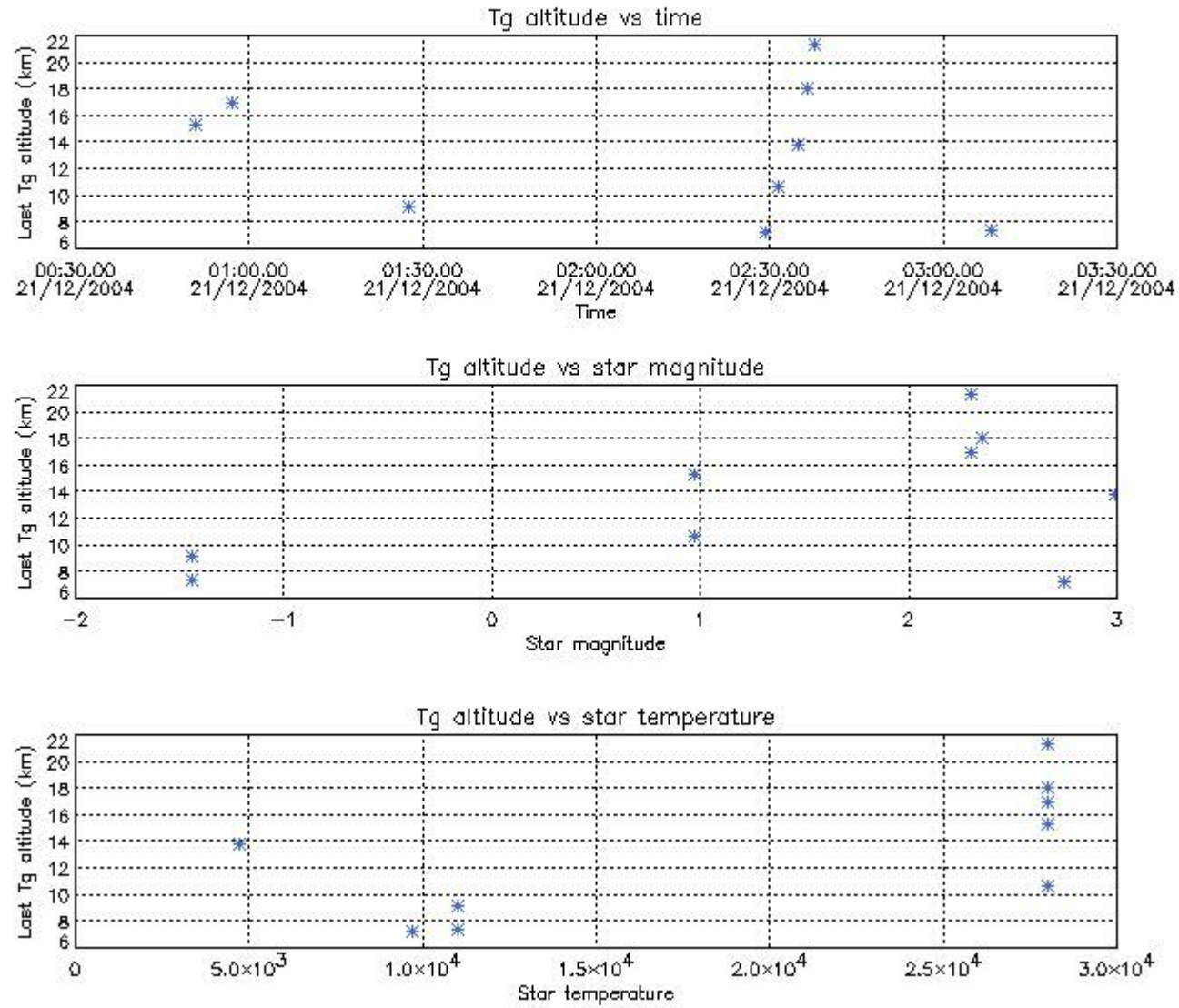
6.3 Plot for BRIGHT limb products

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

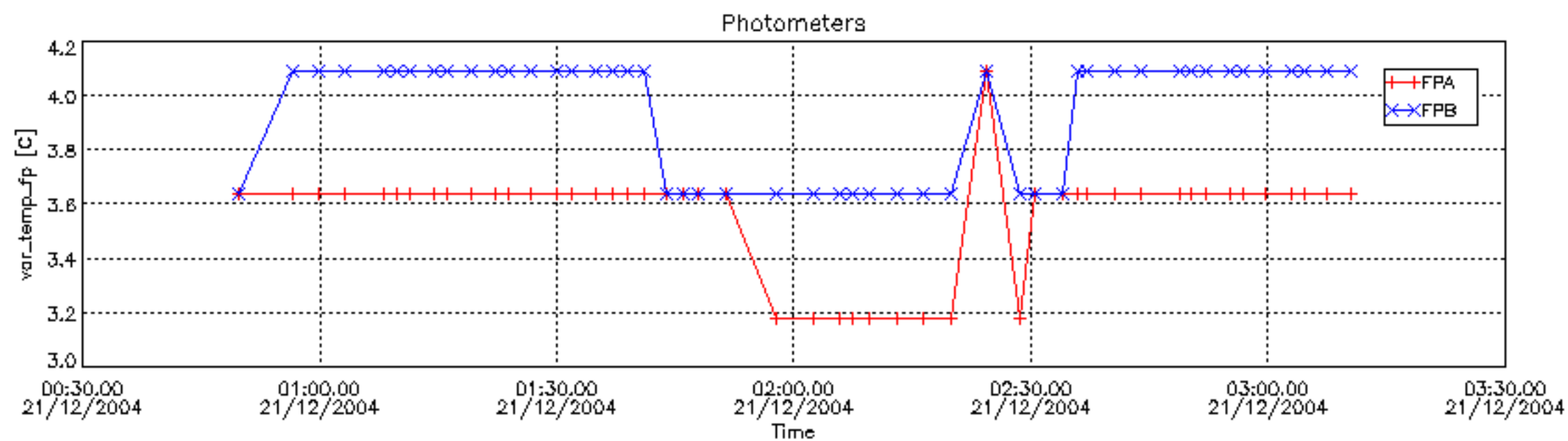
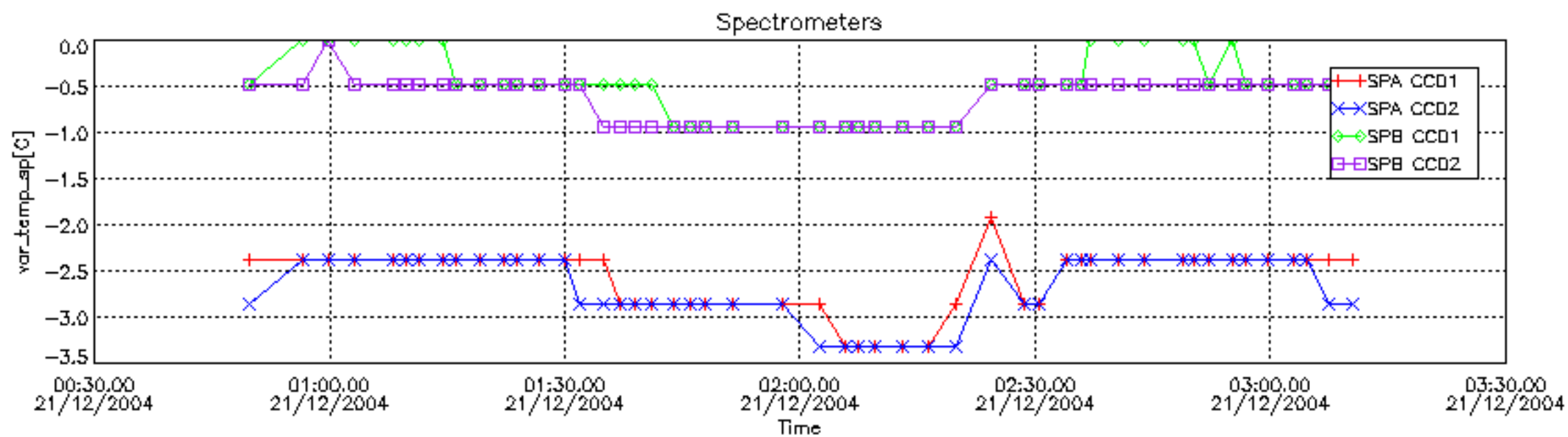
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

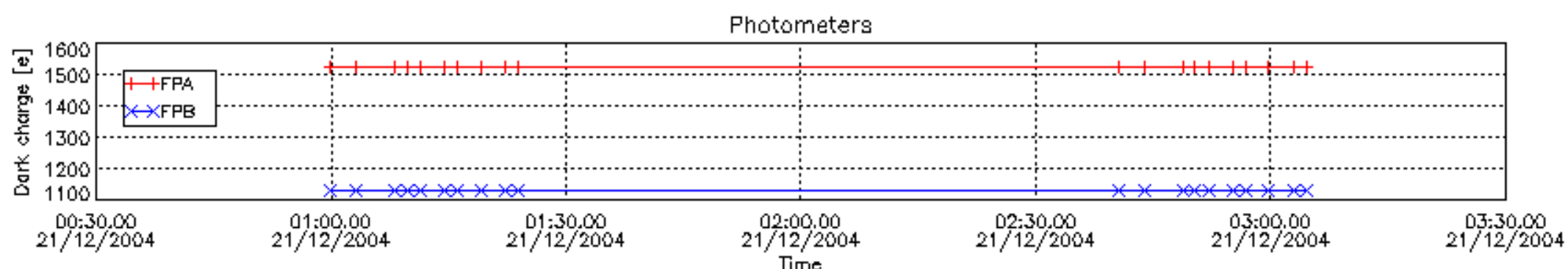
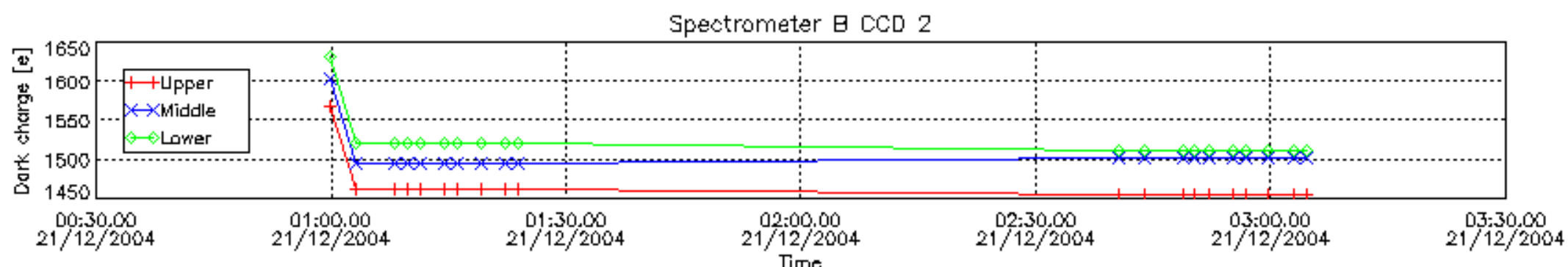
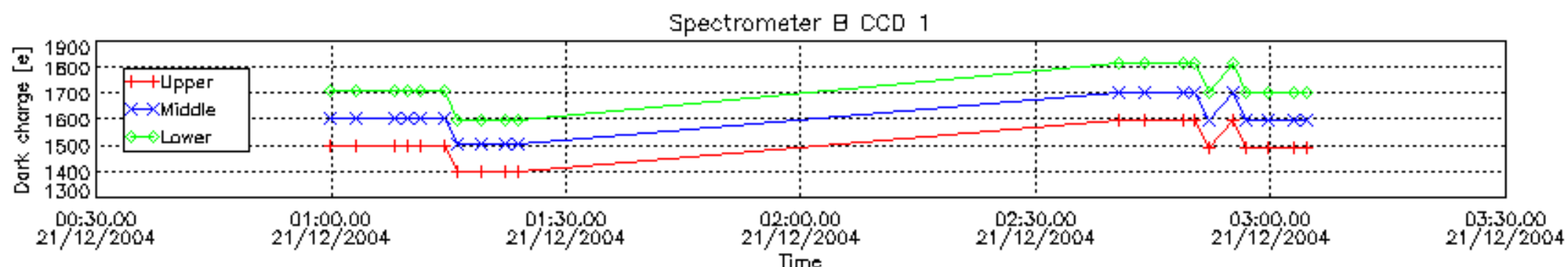
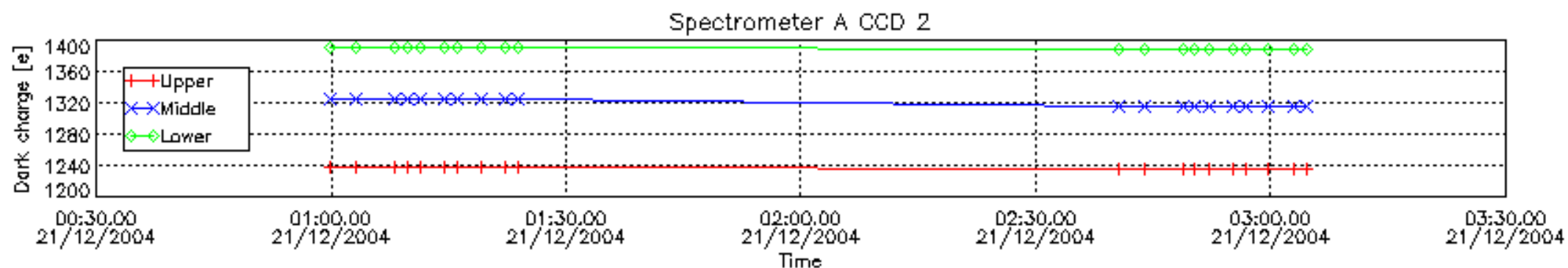
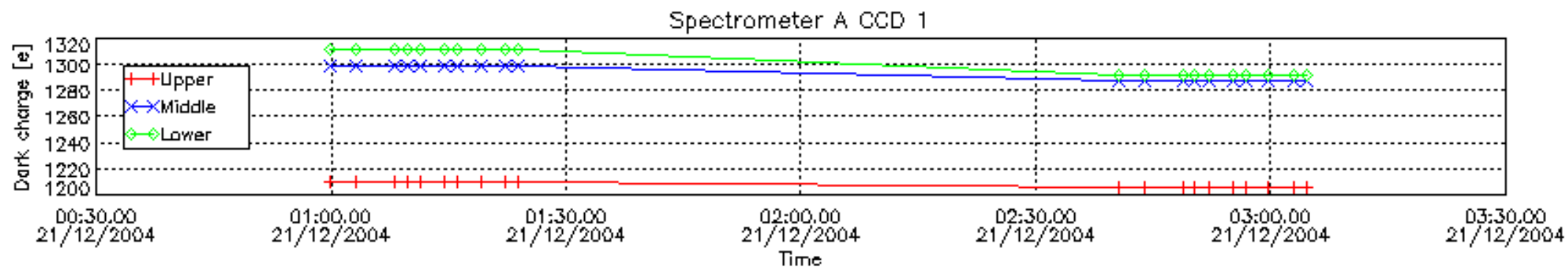
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.2	1446.9	1461.3	1447.3
St. deviation:	4.6609	7.4833	7.4765	10.170
Maximum:	1508.0	1507.0	1529.0	1513.0
Minimum:	1423.0	1400.0	1449.0	1440.0
Number of data:	25900.	25900.	21900.	21900.

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

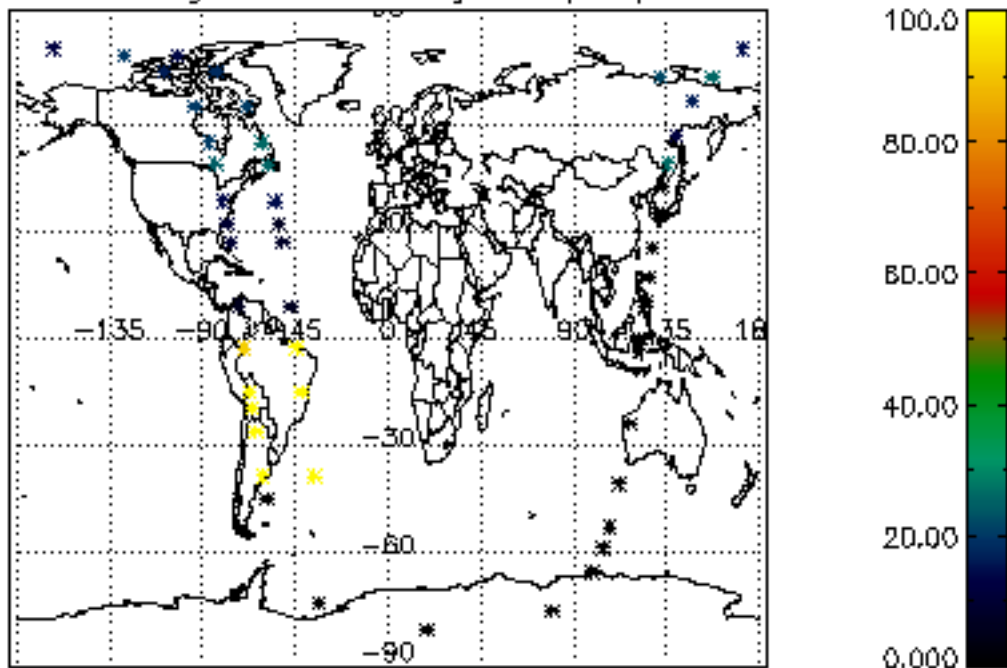
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	21-DEC-2004 00:49:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	21-DEC-2004 00:49:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	21-DEC-2004 00:49:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-DEC-2004 00:49:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	21-DEC-2004 00:49:51
ECMWF_FILE	AUX_ECF_AXNECM20041220_060711_20041220_210000_20041221_090000	1	21-DEC-2004 00:49:51
ECMWF_FILE	AUX_ECA_AXNECM20041221_065932_20041220_210000_20041221_090000	16	21-DEC-2004 01:34:53
OPTIONAL_ECMWF_FILE	NOT USED	1	21-DEC-2004 00:49:51
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041220_230927_20041220_195854_20041230_212506	1	21-DEC-2004 00:49:51

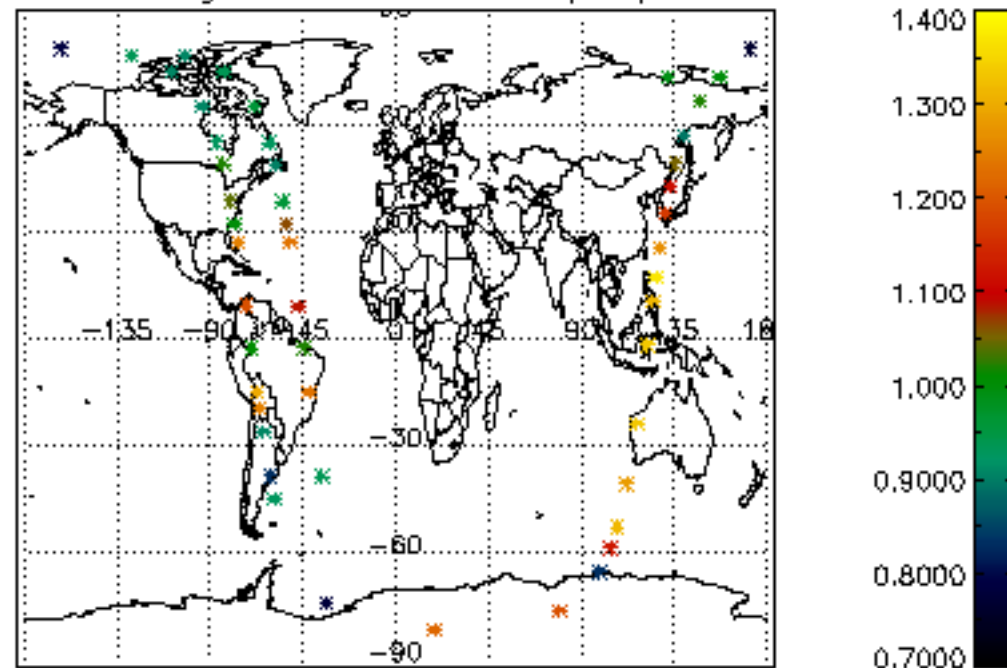




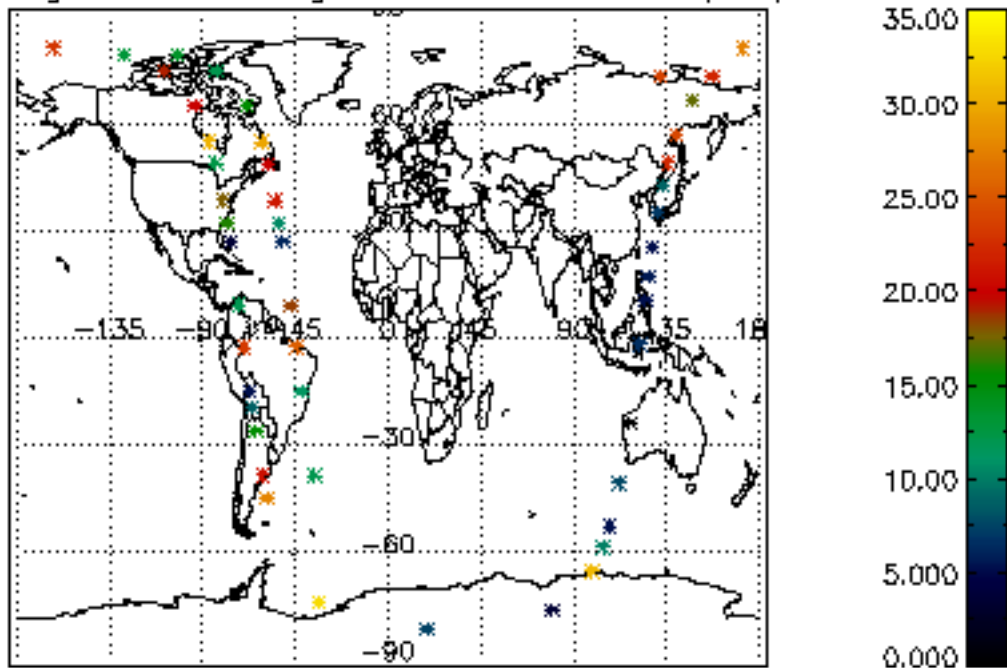
Percentage of cosmic ray hits per profile



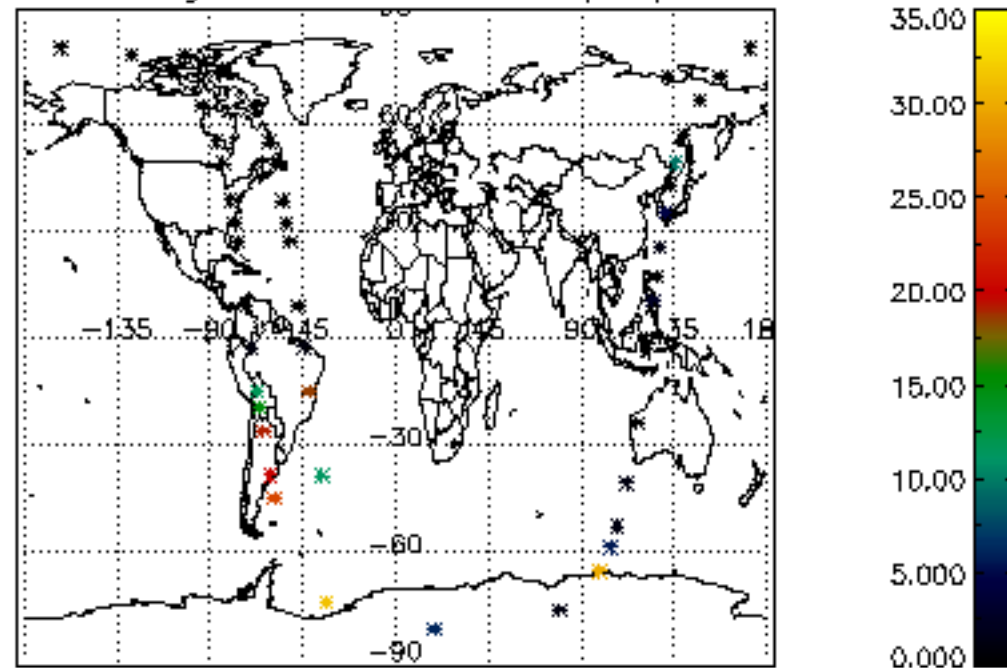
Percentage of datation errors per profile



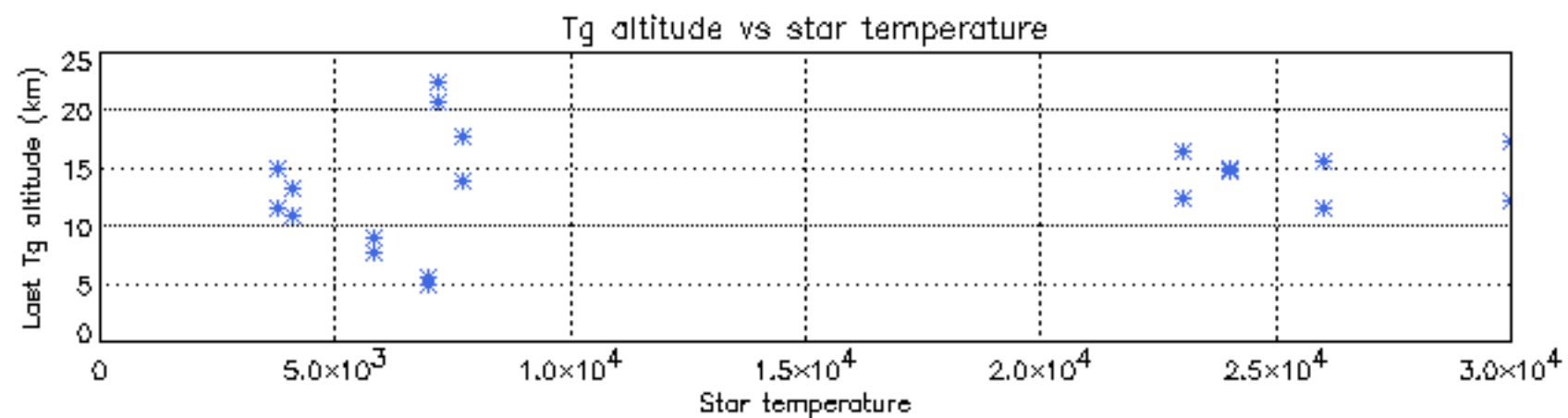
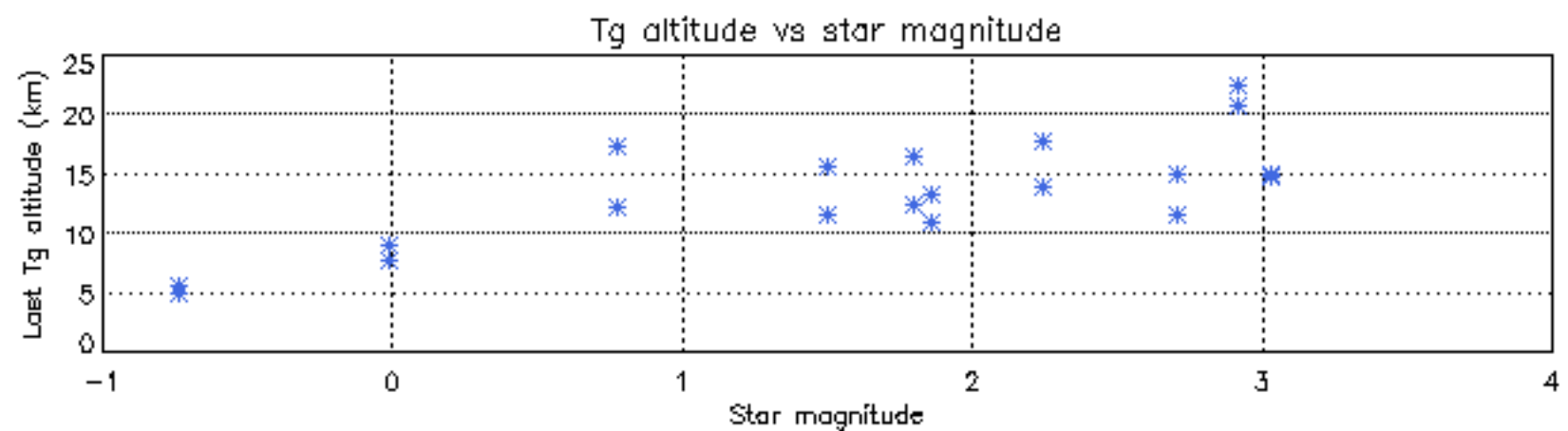
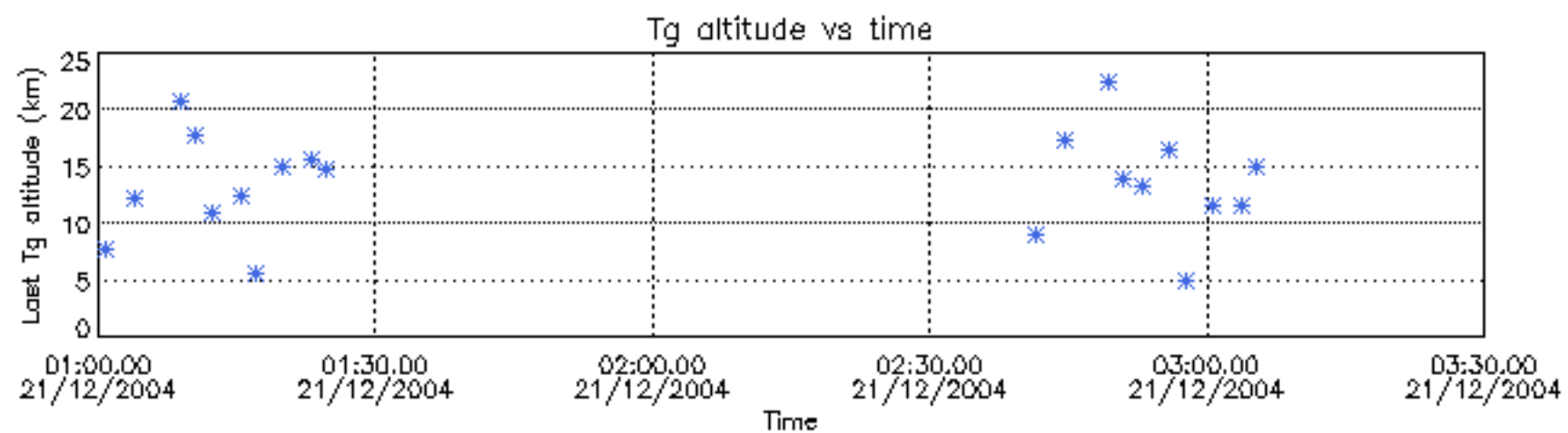
Percentage of star falling outside central band per profile



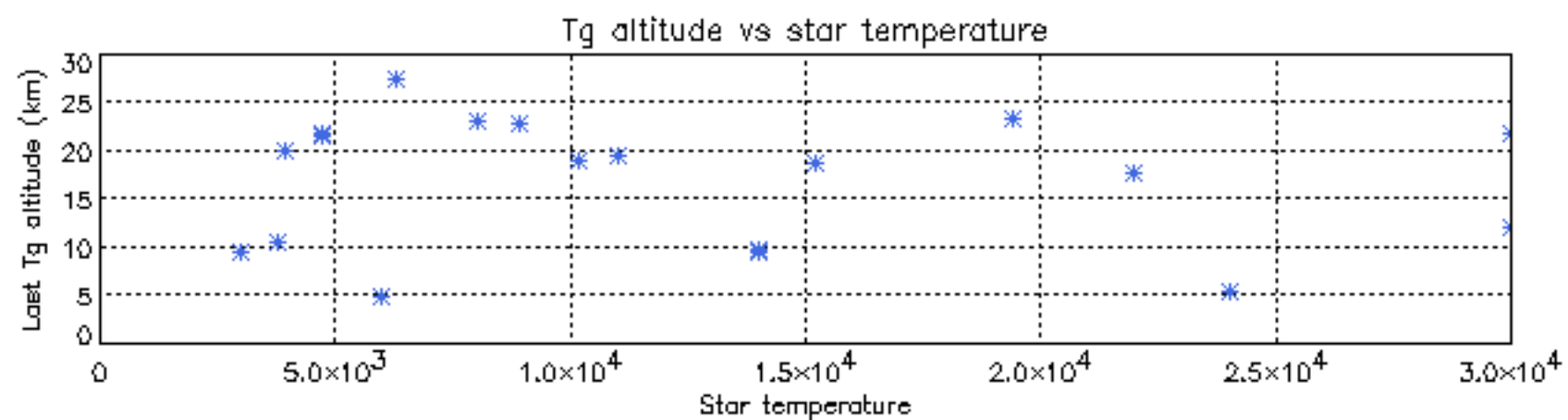
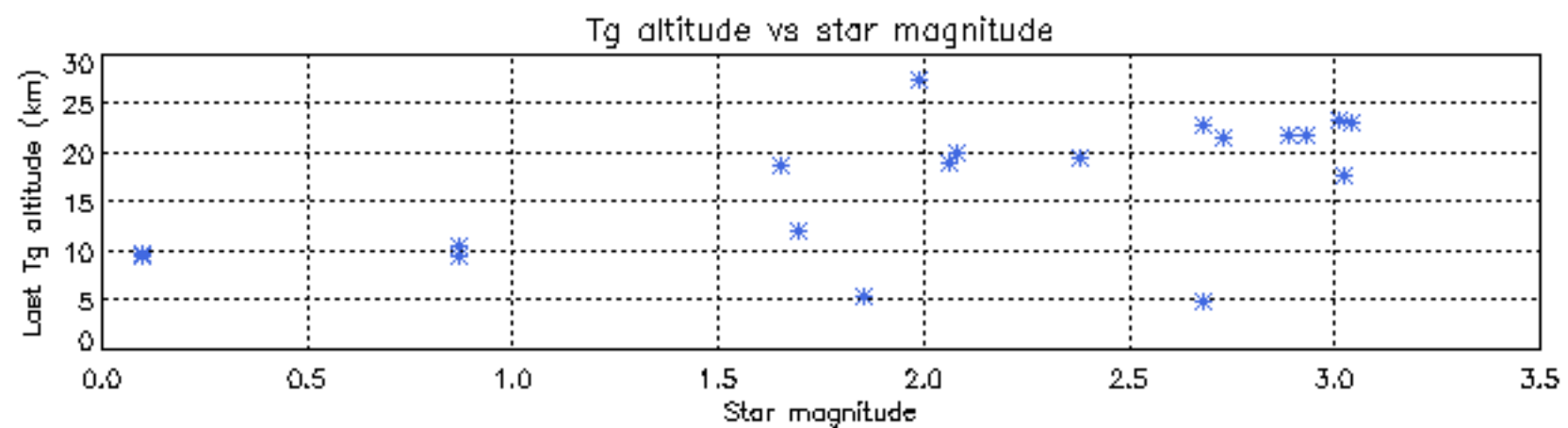
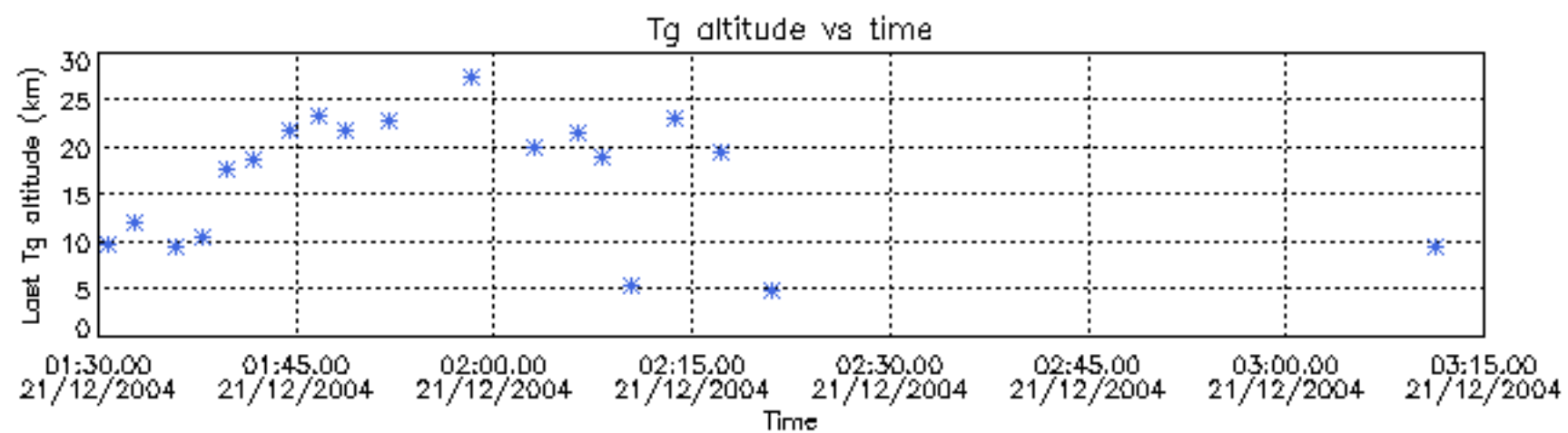
Percentage of saturation errors per profile



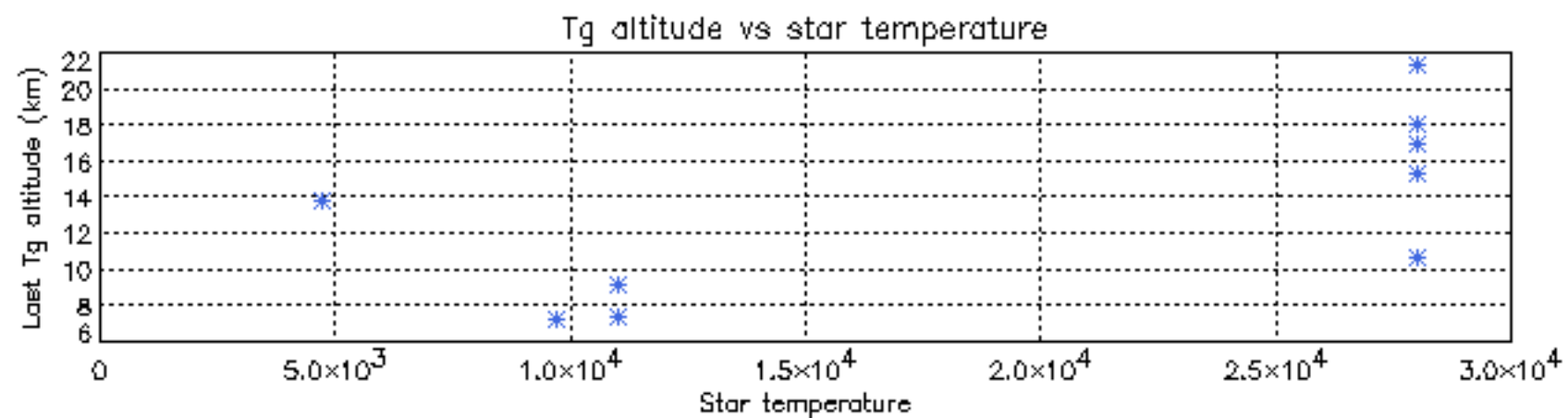
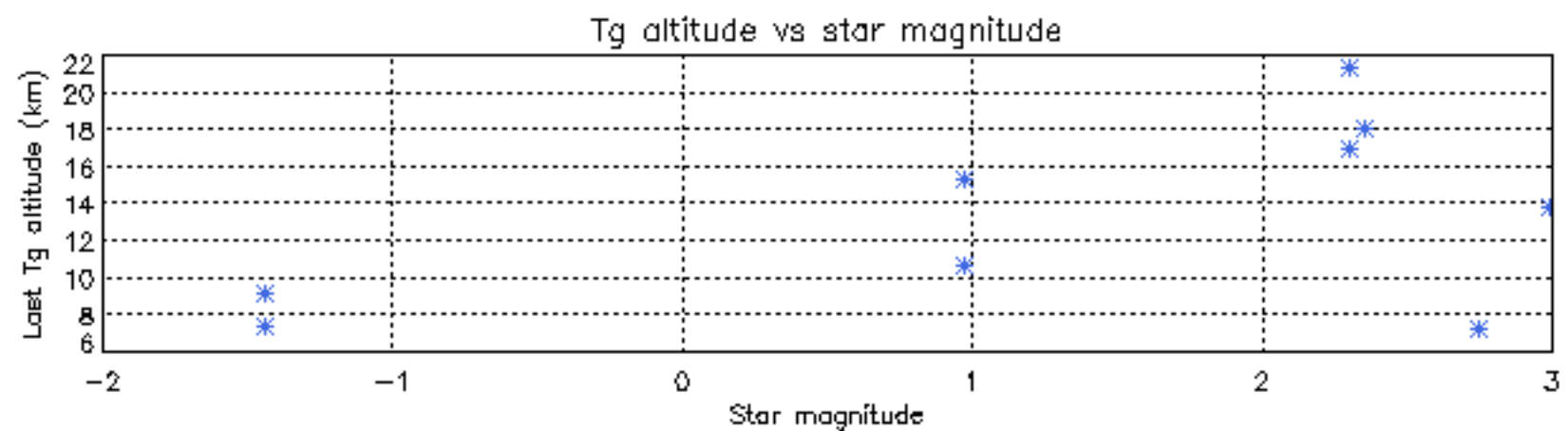
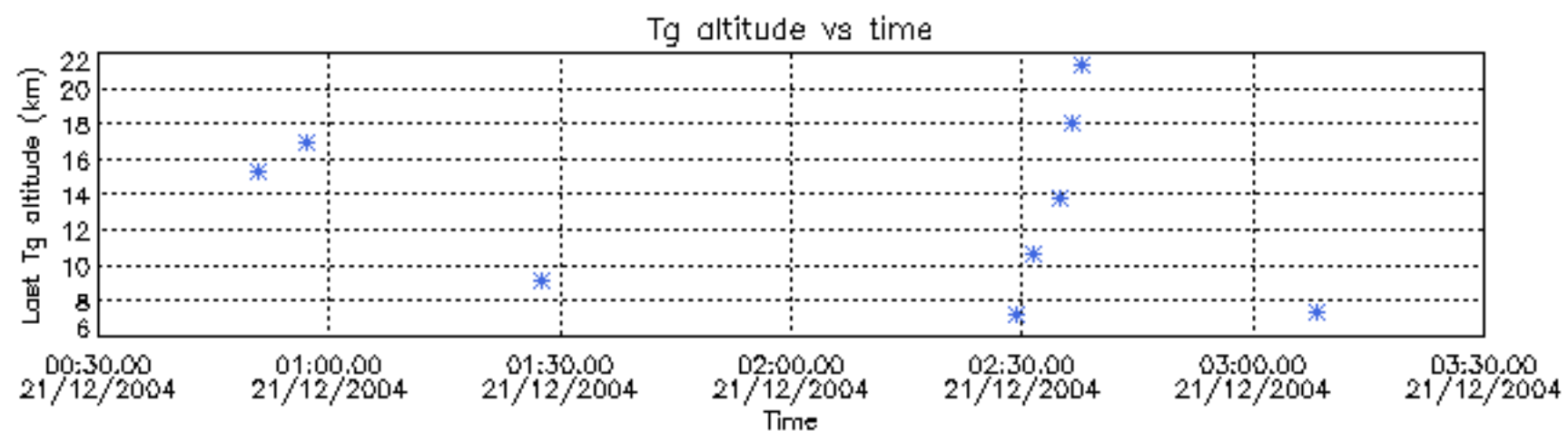
Tangent altitude at which the star is lost



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

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 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
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 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
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 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
 26; 1929.1; 01-DEC-2004 03:42:15; Dark ; 64.0; 30; 46Eps Ori ; 1.69; 30000;occ; 128; 0;14401
 27; 2092.4; 01-DEC-2004 03:44:58; Dark ; 63.0; 27; 24Gam Ori ; 1.64; 26000;occ; 126; 0;14401
 28; 2226.0; 01-DEC-2004 03:47:12; Bright; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;14401
 29; 2325.2; 01-DEC-2004 03:48:51; Bright; 40.0; 146; 25Eta Tau ; 2.87; 15200;occ; 80; 0;14401
 30; 2465.1; 01-DEC-2004 03:51:11; Bright; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;14401
 31; 2600.6; 01-DEC-2004 03:53:26; Bright; 41.5; 79; 26Bet Per ; 2.31; 13100;occ; 83; 0;14401
 32; 2734.9; 01-DEC-2004 03:55:40; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;14401
 33; 2815.1; 01-DEC-2004 03:57:01; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;14401
 34; 2957.0; 01-DEC-2004 03:59:22; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;14401
 35; 3419.2; 01-DEC-2004 04:07:05; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;14401

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 3; -2122.4; 01-DEC-2004 04:15:19; Bright; 47.5; 82; 48Bet UMA ; 2.37; 10600;occ; 95; 0;14401
 4; -2023.8; 01-DEC-2004 04:16:58; Bright; 43.0; 32; 77Eps UMA ; 1.76; 11000;occ; 86; 0;14401
 5; -1898.6; 01-DEC-2004 04:19:03; Bright; 36.5; 39; 85Eta UMA ; 1.85; 24000;occ; 73; 0;14401
 6; -1724.4; 01-DEC-2004 04:21:57; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;14401

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7;-1545.4; 01-DEC-2004 04:24:56; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;14401
8;-1390.7; 01-DEC-2004 04:27:31; Bright; 35.5; 3; 16Alp Boo ; -0.05; 4250;occ; 71; 0;14401
9;-1170.0; 01-DEC-2004 04:31:12; Bright; 76.0; 96; 68Del Leo ; 2.56; 9300;occ; 152; 0;14401
10; -914.4; 01-DEC-2004 04:35:27; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;14401
11; -628.4; 01-DEC-2004 04:40:13; Dark ; 48.0; 163; 7Del Crv ; 2.94; 11000;occ; 96; 0;14401
12; -530.4; 01-DEC-2004 04:41:51; Dark ; 51.0; 106; 9Bet Crv ; 2.65; 5600;occ; 102; 0;14401
13; -412.9; 01-DEC-2004 04:43:49; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;14401
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15; -74.6; 01-DEC-2004 04:49:27; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;14401
16; 206.4; 01-DEC-2004 04:54:08; Dark ; 40.5; 124; The Car ; 2.76; 30000;occ; 81; 0;14402
17; 363.8; 01-DEC-2004 04:56:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14402
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19; 609.3; 01-DEC-2004 05:00:51; Dark ; 62.5; 34; Gam2Vel ; 1.79; 23000;occ; 125; 0;14402
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21; 920.6; 01-DEC-2004 05:06:02; Dark ; 67.5; 117; Pi Pup ; 2.71; 3800;occ; 135; 0;14402
22; 1147.7; 01-DEC-2004 05:09:49; Dark ; 68.0; 23; 21Eps CMa ; 1.50; 26000;occ; 136; 0;14402
23; 1277.6; 01-DEC-2004 05:11:59; Dark ; 73.5; 179; 240mi2CMa ; 3.03; 24000;occ; 147; 0;14402
24; 1529.4; 01-DEC-2004 05:16:11; Dark ; 94.5; 1; 9Alp CMa ; -1.44; 11000;occ; 189; 0;14402
25; 1749.6; 01-DEC-2004 05:19:51; Dark ; 59.0; 7; 19Bet Ori ; 0.10; 14000;occ; 118; 0;14402
26; 1926.9; 01-DEC-2004 05:22:48; Dark ; 71.5; 30; 46Eps Ori ; 1.69; 30000;occ; 143; 0;14402
27; 2090.8; 01-DEC-2004 05:25:32; Dark ; 67.0; 27; 24Gam Ori ; 1.64; 26000;occ; 134; 0;14402
28; 2227.3; 01-DEC-2004 05:27:49; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;14402
29; 2325.7; 01-DEC-2004 05:29:27; Bright; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0;14402
30; 2466.7; 01-DEC-2004 05:31:48; Bright; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;14402
31; 2603.0; 01-DEC-2004 05:34:04; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;14402
32; 2735.0; 01-DEC-2004 05:36:17; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;14402
33; 2816.1; 01-DEC-2004 05:37:38; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0;14402
34; 2957.7; 01-DEC-2004 05:39:59; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;14402
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5;-1899.6; 01-DEC-2004 05:59:38; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;14402
6;-1724.4; 01-DEC-2004 06:02:33; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;14402
7;-1543.3; 01-DEC-2004 06:05:34; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;14402
8;-1390.9; 01-DEC-2004 06:08:07; Bright; 36.5; 3; 16Alp Boo ; -0.05; 4250;occ; 73; 0;14402
9;-1169.8; 01-DEC-2004 06:11:48; Bright; 72.5; 96; 68Del Leo ; 2.56; 9300;occ; 145; 0;14402
10; -914.3; 01-DEC-2004 06:16:03; Bright; 62.0; 121; 29Gam Vir ; 2.74; 7200;occ; 124; 0;14402
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13; -412.2; 01-DEC-2004 06:24:25; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;14402
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16; 207.0; 01-DEC-2004 06:34:45; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0;14403
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21; 923.7; 01-DEC-2004 06:46:41; Dark ; 74.0; 117; Pi Pup ; 2.71; 3800;occ; 148; 0;14403
22; 1150.2; 01-DEC-2004 06:50:28; Dark ; 71.0; 23; 21Eps CMa ; 1.50; 26000;occ; 142; 0;14403
23; 1278.7; 01-DEC-2004 06:52:36; Dark ; 74.0; 179; 240mi2CMa ; 3.03; 24000;occ; 148; 0;14403
24; 1529.5; 01-DEC-2004 06:56:47; Dark ; 98.5; 1; 9Alp CMa ; -1.44; 11000;occ; 197; 0;14403
25; 1750.1; 01-DEC-2004 07:00:28; Dark ; 68.0; 7; 19Bet Ori ; 0.10; 14000;occ; 136; 0;14403
26; 1928.3; 01-DEC-2004 07:03:26; Dark ; 60.5; 30; 46Eps Ori ; 1.69; 30000;occ; 121; 0;14403
27; 2091.0; 01-DEC-2004 07:06:08; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;14403
28; 2227.7; 01-DEC-2004 07:08:25; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;14403
29; 2326.2; 01-DEC-2004 07:10:04; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;14403
30; 2467.2; 01-DEC-2004 07:12:25; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;14403
31; 2603.3; 01-DEC-2004 07:14:41; Bright; 38.5; 79; 26Bet Per ; 2.31; 13100;occ; 77; 0;14403
32; 2735.1; 01-DEC-2004 07:16:53; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;14403
33; 2816.2; 01-DEC-2004 07:18:14; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;14403
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35; 3419.8; 01-DEC-2004 07:28:17; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;14403
36; 3699.5; 01-DEC-2004 07:32:57; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;14403
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4;-1899.0; 01-DEC-2004 07:40:14; Bright; 38.5; 39; 85Eta UMA ; 1.85; 24000;occ; 77; 0;14403
5;-1723.4; 01-DEC-2004 07:43:10; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;14403
6;-1543.2; 01-DEC-2004 07:46:10; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;14403
7;-1390.7; 01-DEC-2004 07:48:43; Bright; 35.5; 3; 16Alp Boo ; -0.05; 4250;occ; 71; 0;14403
8;-1168.5; 01-DEC-2004 07:52:25; Bright; 75.5; 96; 68Del Leo ; 2.56; 9300;occ; 151; 0;14403
9; -913.7; 01-DEC-2004 07:56:40; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;14403
10; -626.7; 01-DEC-2004 08:01:27; Dark ; 49.0; 163; 7Del Crv ; 2.94; 11000;occ; 98; 0;14403
11; -529.1; 01-DEC-2004 08:03:04; Dark ; 47.5; 106; 9Bet Crv ; 2.65; 5600;occ; 95; 0;14403
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13;	-2985.3;	22-DEC-2004	16:25:18;	Bright;	;	40.5;	110;	37Del Cas	;	2.68;	8900;occ;	81;	0;	14709
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7;	1564.8;	22-DEC-2004	21:02:20;	Dark	;	61.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	123;	0;	14712
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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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21; 2354.0; 29-DEC-2004 02:28:46; Bright; 37.0; 146; 25Eta Tau ; 2.87; 15200;occ; 74; 0;14801
22; 2469.6; 29-DEC-2004 02:30:42; Bright; 40.0; 114; 3Iot Aur ; 2.69; 4600;occ; 80; 0;14801
23; 2573.6; 29-DEC-2004 02:32:26; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;14801
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17; 609.4; 29-DEC-2004 07:01:29; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;14804
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4;	-289.4;	29-DEC-2004	21:51:54;	Dark	;	49.5;	54;	5The Cen	;	2.06;	4500;occ;	99;	0;	14812
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13;	824.1;	29-DEC-2004	22:10:27;	Dark	;	65.5;	65;	Lam Vel	;	2.20;	4400;occ;	131;	0;	14813
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26;	2572.7;	29-DEC-2004	22:39:36;	Bright;	;	40.0;	107;	37The Aur	;	2.65;	11000;occ;	80;	0;	14813
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13;	970.0;	29-DEC-2004	23:53:29;	Dark	;	53.0;	2;	Alp Car	;	-0.74;	7000;occ;	106;	0;	14814
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16;	1423.6;	30-DEC-2004	00:01:03;	Dark	;	51.0;	179;	240mi2CMA	;	3.03;	24000;occ;	102;	0;	14814
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