

GOMOS Daily Report 21-JAN-2005

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	22JAN2005 05:03:29

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (21JAN2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (22JAN2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	28
Nb of prods with errors	1

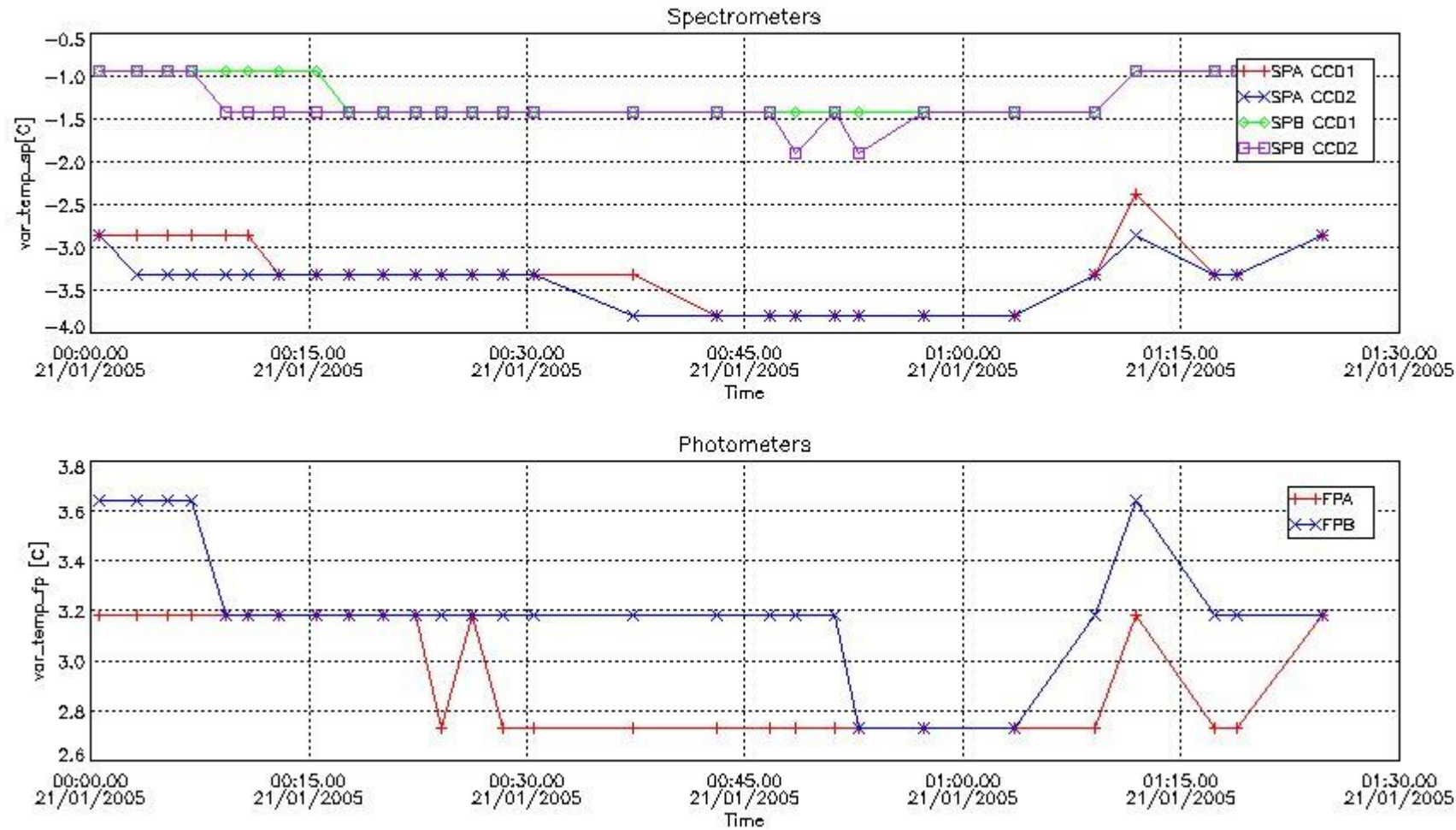
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20050121_000034_000000462034_00045_15129_0009.N1	21-JAN-2005 00:00:34	Dark	46.000	46	Del Vel	1.9540	10600.	92	15129	No
2	GOM_TRA_1PNPDE20050121_000314_000000472034_00045_15129_0010.N1	21-JAN-2005 00:03:14	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	15129	No
3	GOM_TRA_1PNPDE20050121_000520_000000442034_00045_15129_0011.N1	21-JAN-2005 00:05:20	Dark	43.500	70	Zet Pup	2.2460	39000.	87	15129	No
4	GOM_TRA_1PNPDE20050121_000653_000000442034_00045_15129_0012.N1	21-JAN-2005 00:06:53	Dark	44.000	117	Pi Pup	2.7060	3800.0	88	15129	No
5	GOM_TRA_1PNPDE20050121_000920_000000462034_00045_15129_0013.N1	21-JAN-2005 00:09:20	Twilight	46.000	23	21Eps CMa	1.5020	26000.	92	15129	No
6	GOM_TRA_1PNPDE20050121_001046_000000422034_00045_15129_0014.N1	21-JAN-2005 00:10:46	Twilight	42.000	179	24Omi2CMa	3.0320	24000.	84	15129	No
7	GOM_TRA_1PNPDE20050121_001257_000000512034_00045_15129_0015.N1	21-JAN-2005 00:12:57	Twilight	51.000	1	9Alp CMa	-1.4400	11000.	102	15129	No
8	GOM_TRA_1PNPDE20050121_001530_000000432034_00045_15129_0016.N1	21-JAN-2005 00:15:30	Bright	42.500	56	53Kap Ori	2.0650	30000.	85	15129	No
9	GOM_TRA_1PNPDE20050121_001743_000000432034_00045_15129_0017.N1	21-JAN-2005 00:17:43	Bright	43.000	33	50Zet Ori	1.7660	30000.	86	15129	No
10	GOM_TRA_1PNPDE20050121_002007_000000522034_00045_15129_0018.N1	21-JAN-2005 00:20:07	Bright	52.000	14	58Alp Ori	0.87000	3000.0	104	15129	No
11	GOM_TRA_1PNPDE20050121_002222_000000512034_00045_15129_0019.N1	21-JAN-2005 00:22:22	Bright	51.000	44	24Gam Gem	1.9280	11000.	102	15129	No
12	GOM_TRA_1PNPDE20050121_002408_000000442034_00045_15129_0020.N1	21-JAN-2005 00:24:08	Bright	43.500	151	13Mu Gem	2.8900	3000.0	87	15129	No
13	GOM_TRA_1PNPDE20050121_002616_000000402034_00045_15129_0021.N1	21-JAN-2005 00:26:16	Bright	40.000	28	12Bet Tau	1.6500	15200.	80	15129	No
14	GOM_TRA_1PNPDE20050121_002820_000000362034_00045_15129_0022.N1	21-JAN-2005 00:28:20	Bright	36.000	107	37The Aur	2.6490	11000.	72	15129	No
15	GOM_TRA_1PNPDE20050121_003029_000000382034_00045_15129_0023.N1	21-JAN-2005 00:30:29	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	15129	No
16	GOM_TRA_1PNPDE20050121_003717_000002462034_00045_15129_0024.N1	21-JAN-2005 00:37:17	Bright	246.00	51	41Gam1Leo	2.0100	4500.0	492	15129	No
17	GOM_TRA_1PNPDE20050121_004303_000000372034_00045_15129_0025.N1	21-JAN-2005 00:43:03	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	15129	No
18	GOM_TRA_1PNPDE20050121_004644_000000382034_00045_15129_0026.N1	21-JAN-2005 00:46:44	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	15129	No
19	GOM_TRA_1PNPDE20050121_004826_000000542034_00045_15129_0027.N1	21-JAN-2005 00:48:26	Bright	54.000	32	77Eps UMa	1.7630	11000.	108	15129	No
20	GOM_TRA_1PNPDE20050121_005113_000000402034_00045_15129_0028.N1	21-JAN-2005 00:51:13	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	15129	No
21	GOM_TRA_1PNPDE20050121_005246_000000592034_00045_15129_0029.N1	21-JAN-2005 00:52:46	Bright	59.000	39	85Eta UMa	1.8540	24000.	118	15129	No
22	GOM_TRA_1PNPDE20050121_005714_000000402034_00045_15129_0030.N1	21-JAN-2005 00:57:14	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	15129	No
23	GOM_TRA_1PNPDE20050121_010332_000000682034_00045_15129_0031.N1	21-JAN-2005 01:03:32	Bright	68.000	83		2.3780	11000.	136	15129	No
24	GOM_TRA_1PNPDE20050121_010902_000001242034_00045_15129_0032.N1	21-JAN-2005 01:09:02	Twilight	124.00	3	16Alp Boo	-0.050000	4250.0	248	15129	No
25	GOM_TRA_1PNPDE20050121_011154_000001602034_00045_15129_0000.N1	21-JAN-2005 01:11:54	Twilight	160.00	111	8Eta Boo	2.6800	6000.0	320	15129	Yes
26	GOM_TRA_1PNPDE20050121_011719_000000532034_00045_15129_0001.N1	21-JAN-2005 01:17:19	Twilight	52.500	16	21Alp Sco	1.0200	3000.0	105	15129	No
27	GOM_TRA_1PNPDE20050121_011851_000000452034_00045_15129_0002.N1	21-JAN-2005 01:18:51	Twilight	45.000	75	26Eps Sco	2.2910	4250.0	90	15129	No
28	GOM_TRA_1PNPDE20050121_012442_000000432034_00045_15129_0003.N1	21-JAN-2005 01:24:42	Dark	42.500	109	Bet Lup	2.6770	26000.	85	15129	No

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



4. Overview of dark signal processing per product

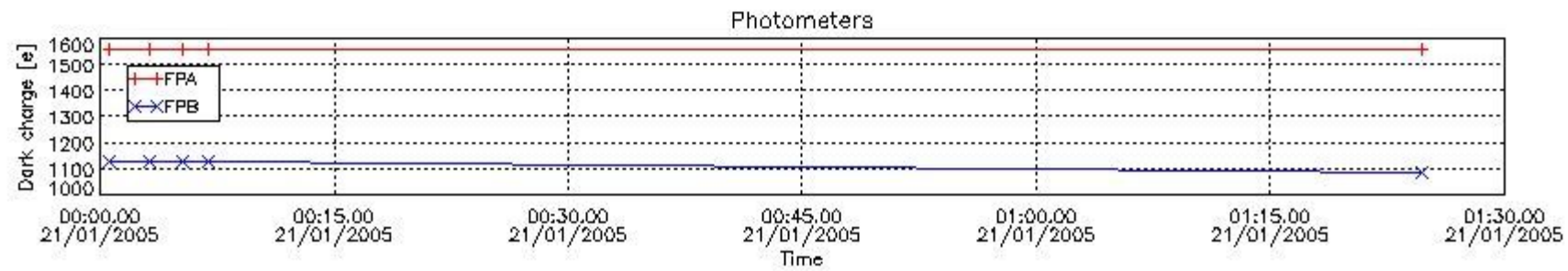
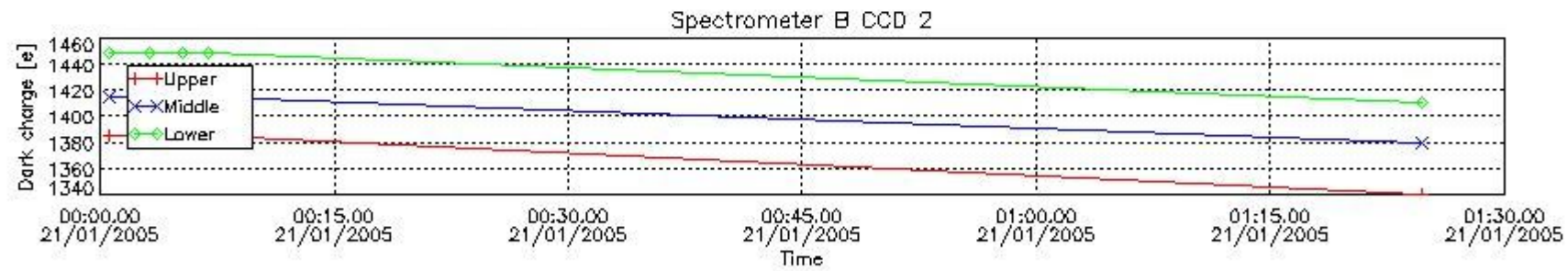
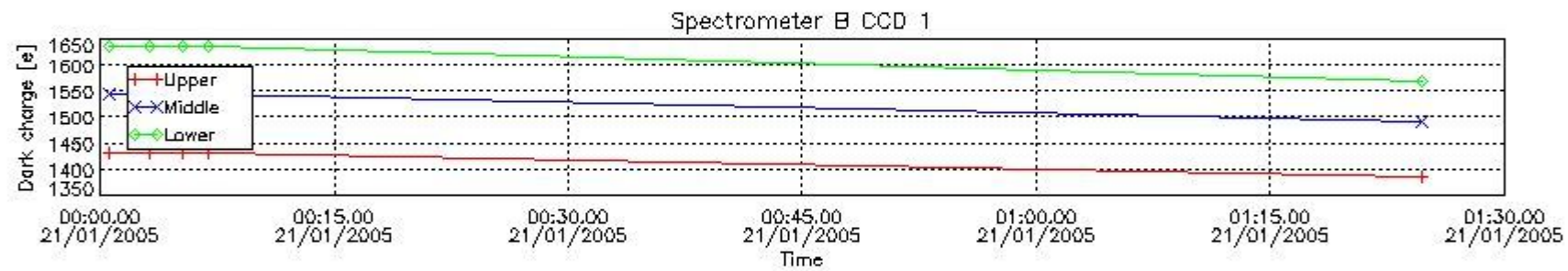
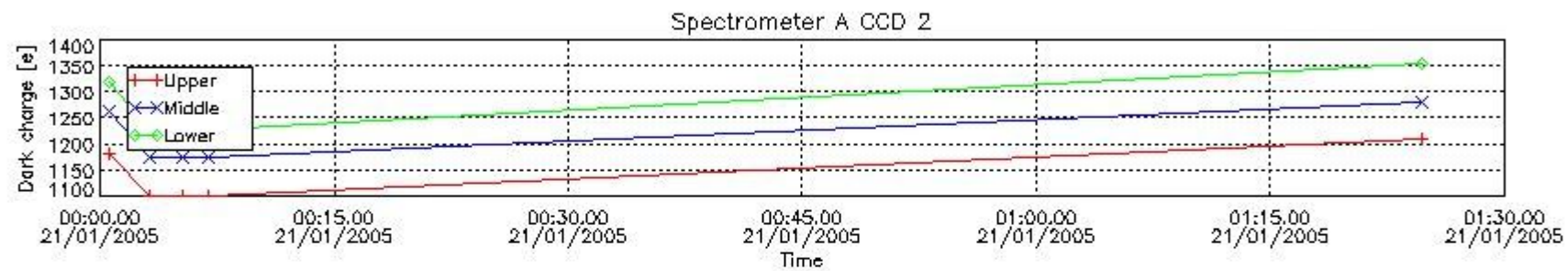
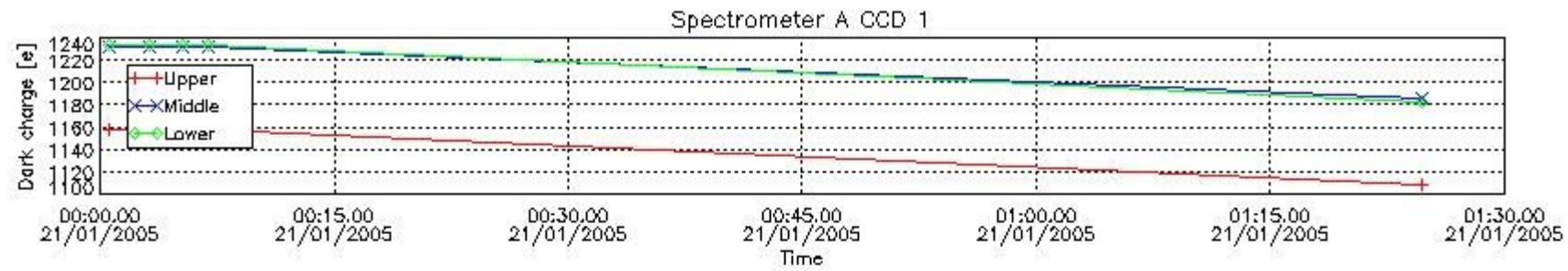
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20050121_011154_000001602034_00045_15129_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20050121_011719_000000532034_00045_15129_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20050121_011851_000000452034_00045_15129_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20050121_012442_000000432034_00045_15129_0003.N1	DC map used (0)

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



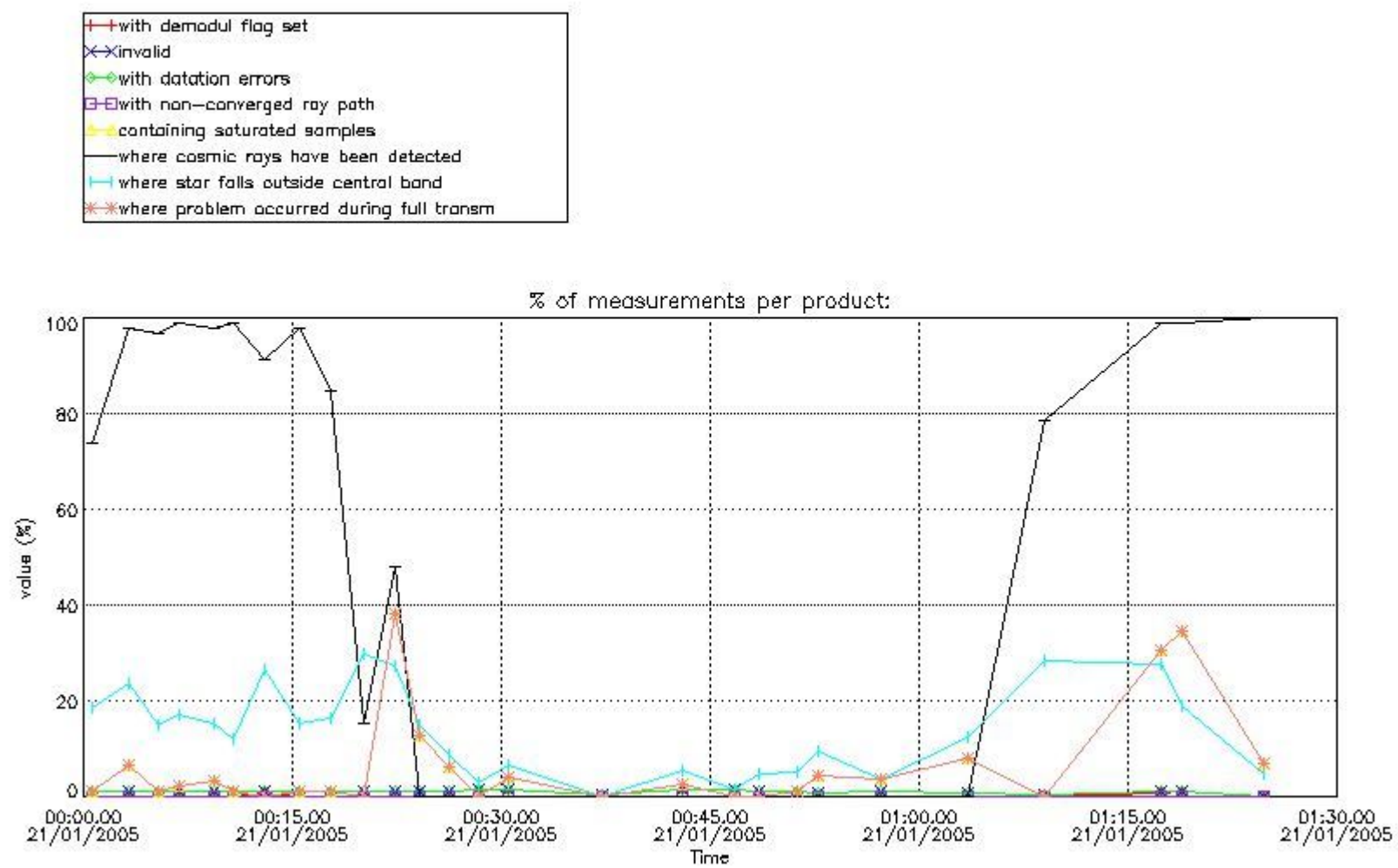
5. Demodulation flag and quality information monitoring

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.

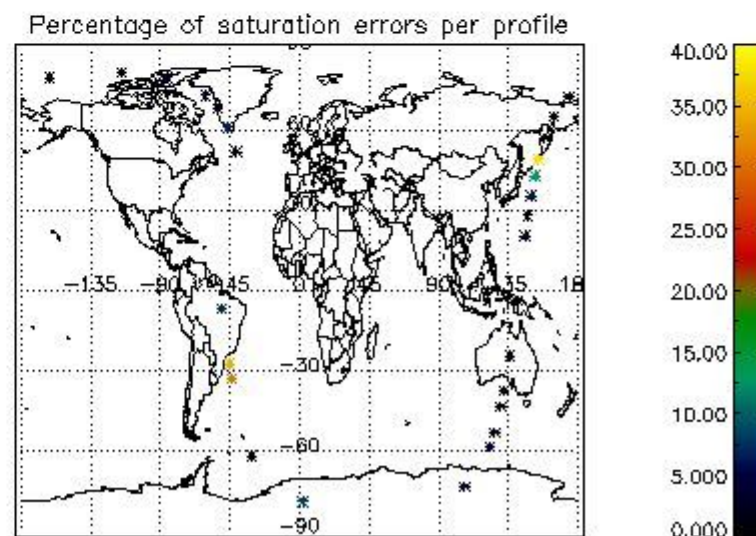
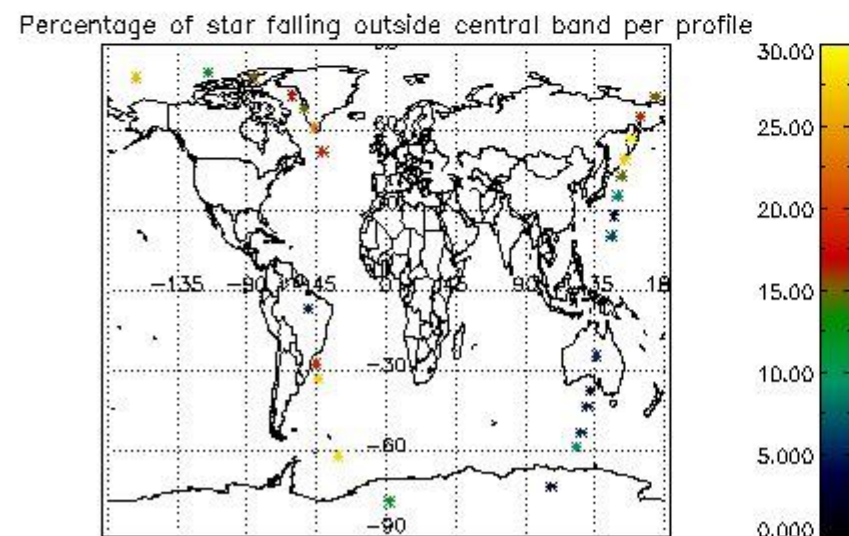
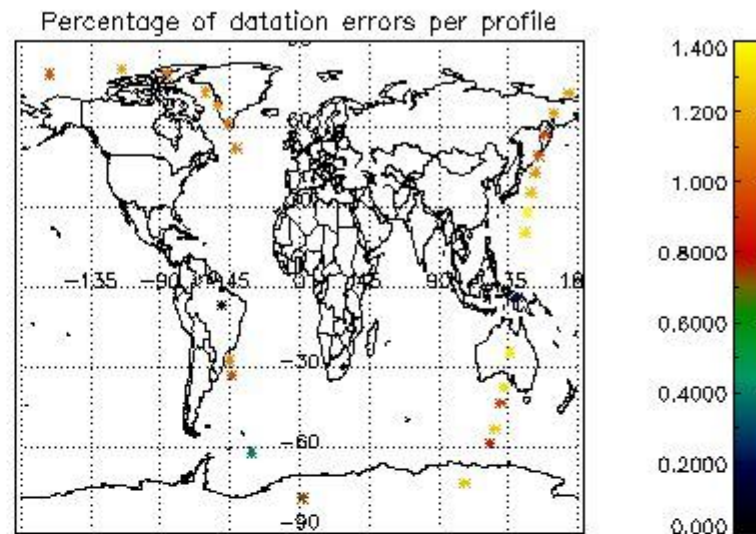
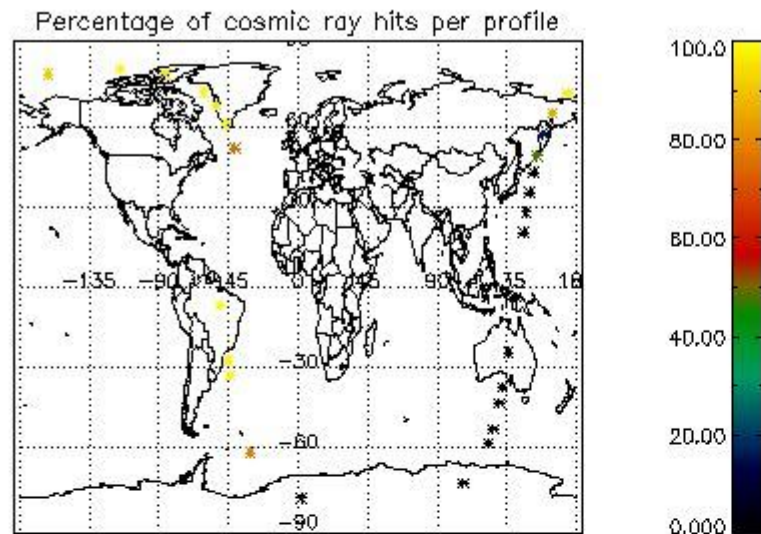
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.0370 %
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)



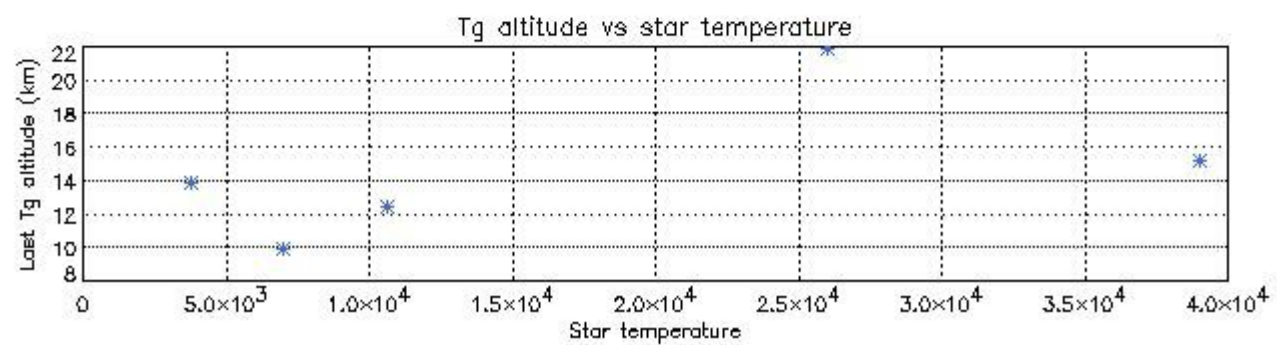
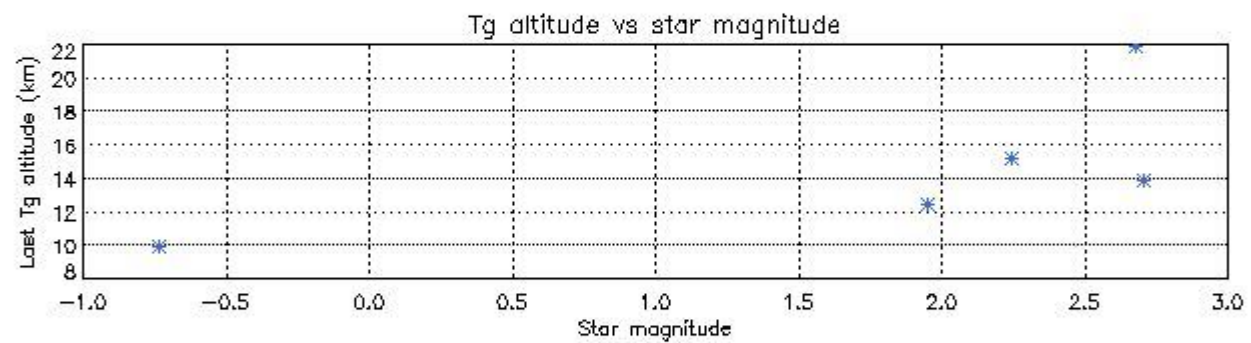
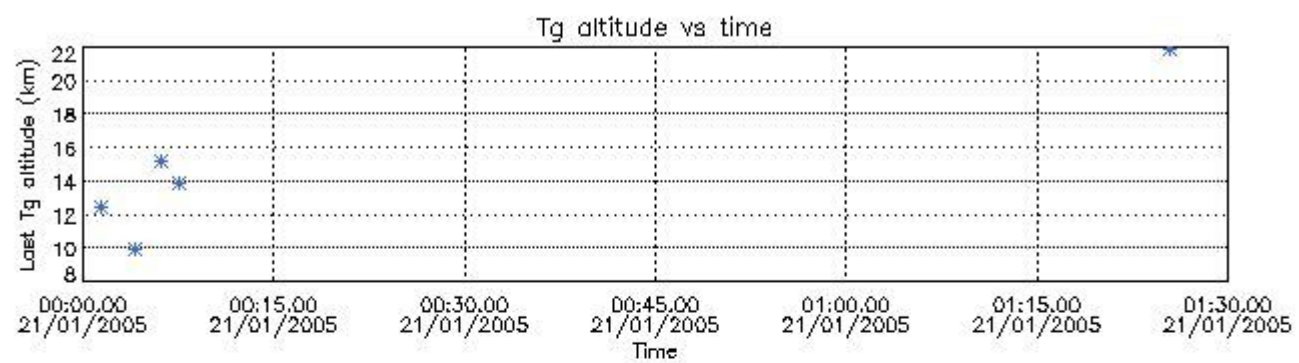
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.630	17.948	10.382
St. deviation:	4.5177	6.0921	3.6829
Maximum:	21.917	26.081	15.754
Minimum:	9.8912	6.3351	7.0800
Number of data:	5.0000	16.000	6.0000

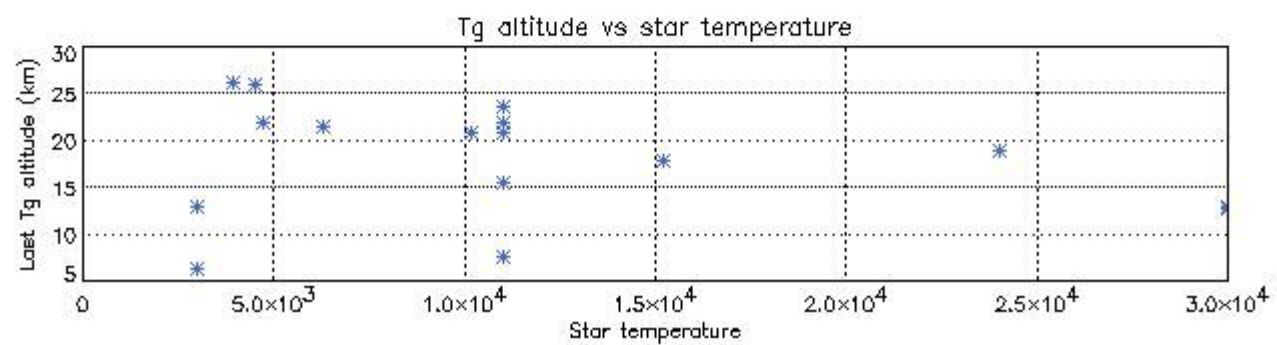
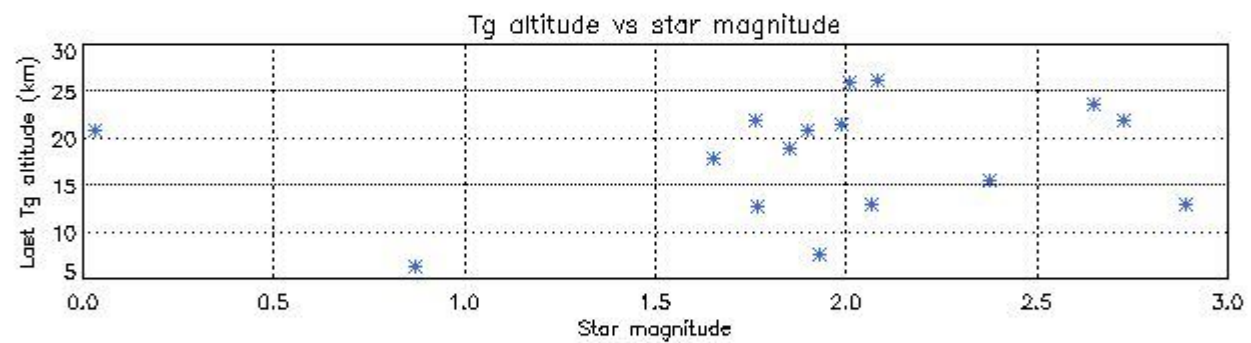
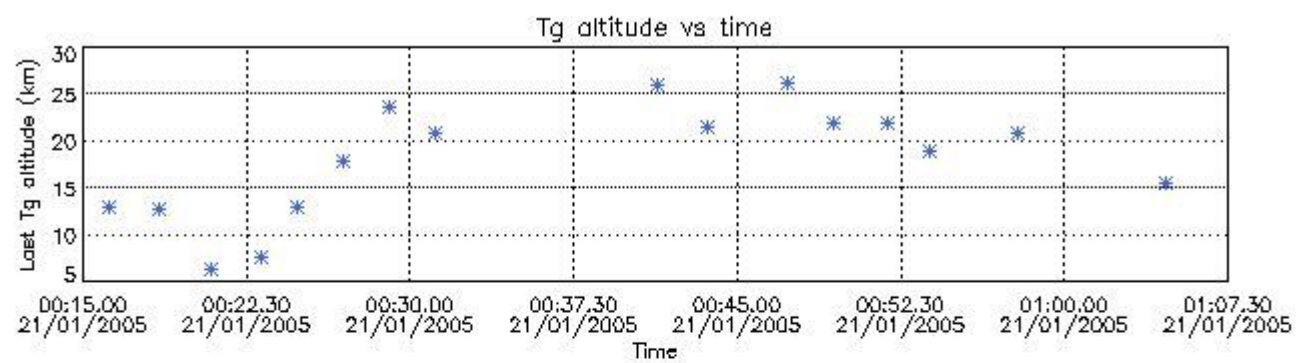
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



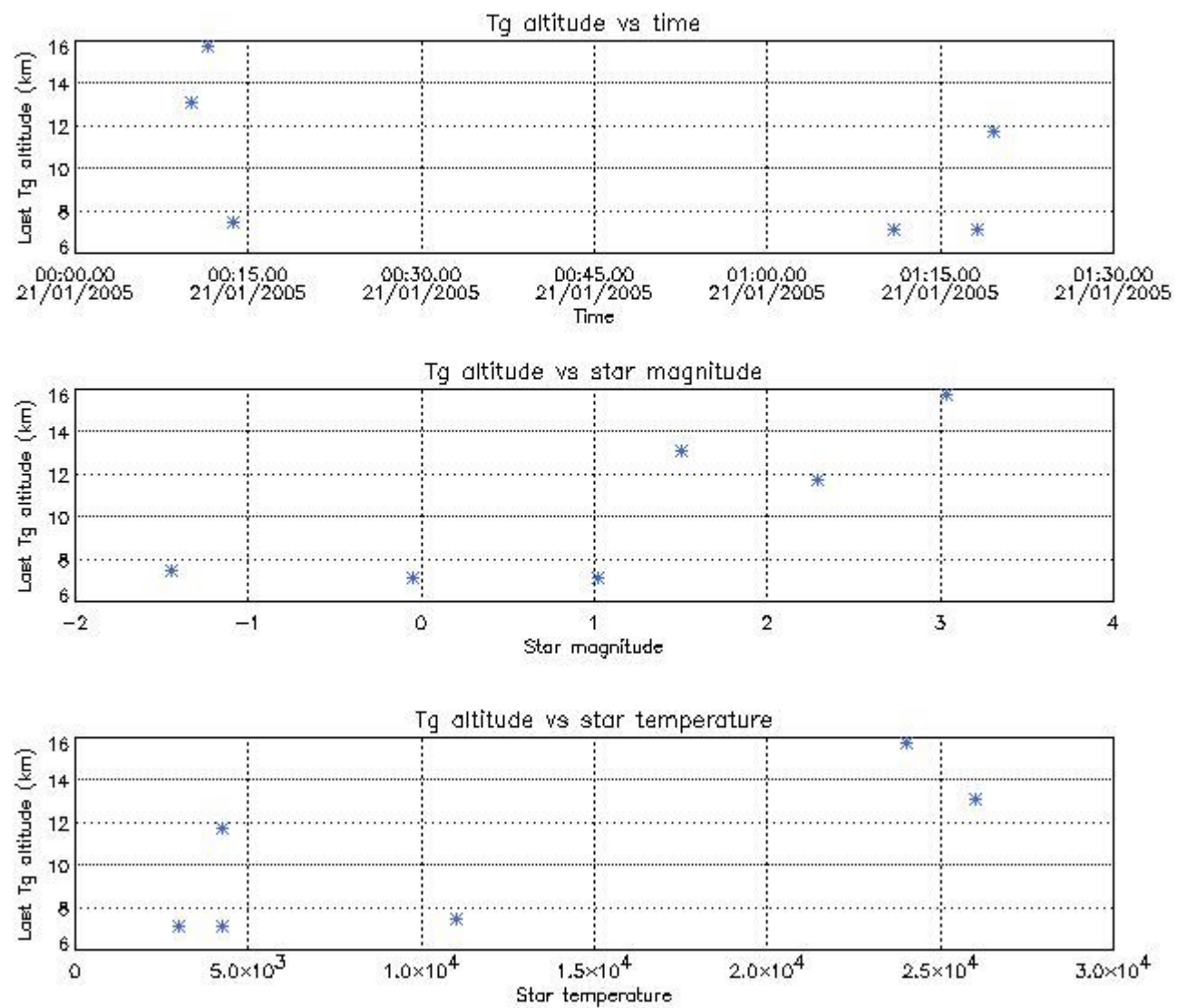
6.3 Plot for BRIGHT limb products

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

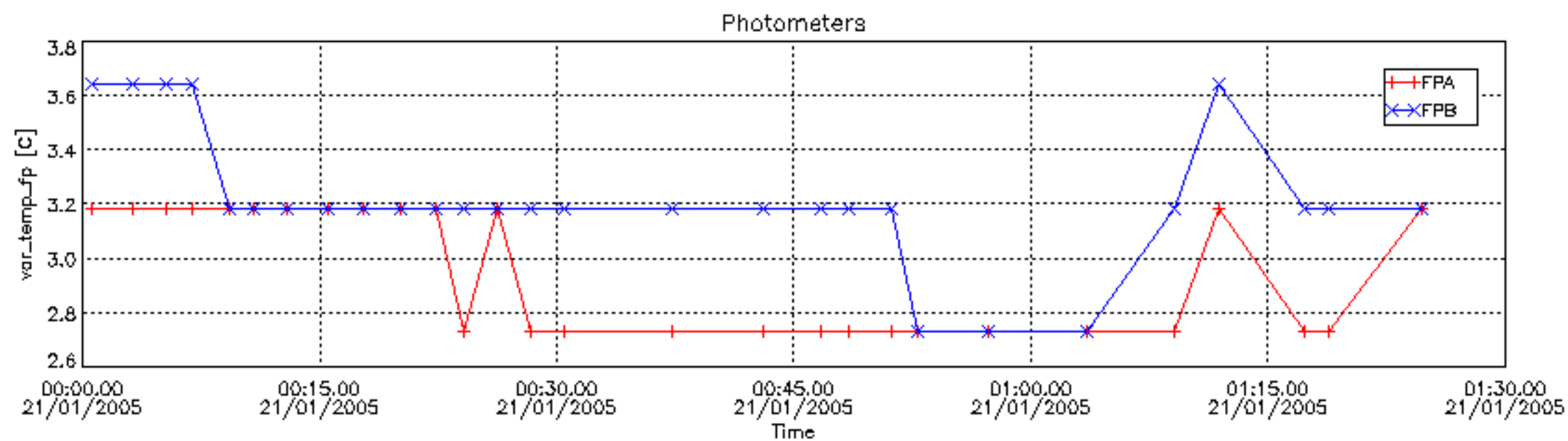
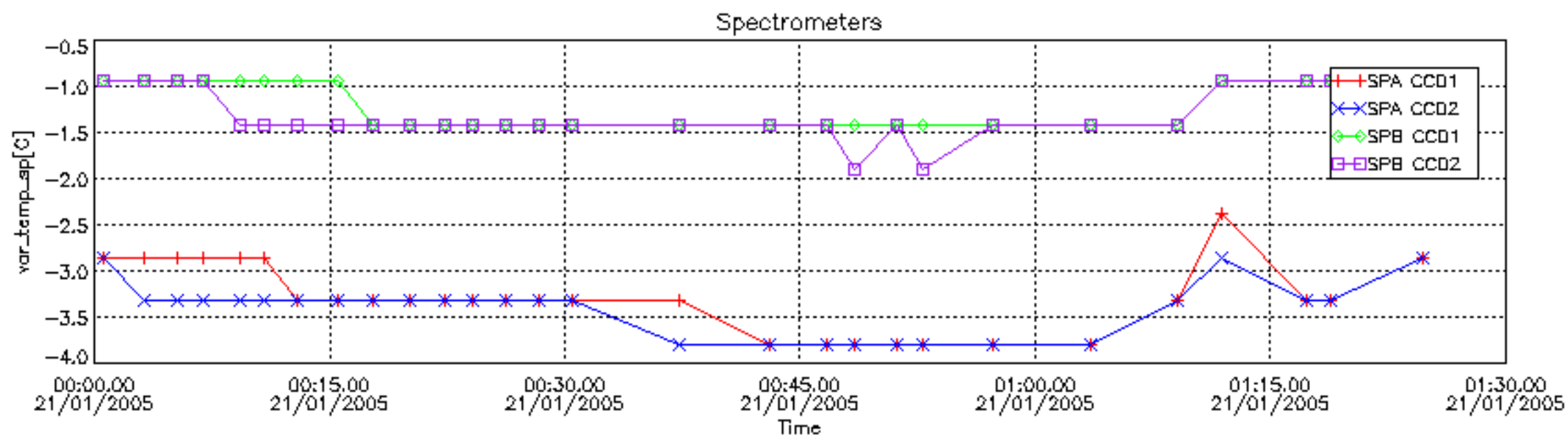
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

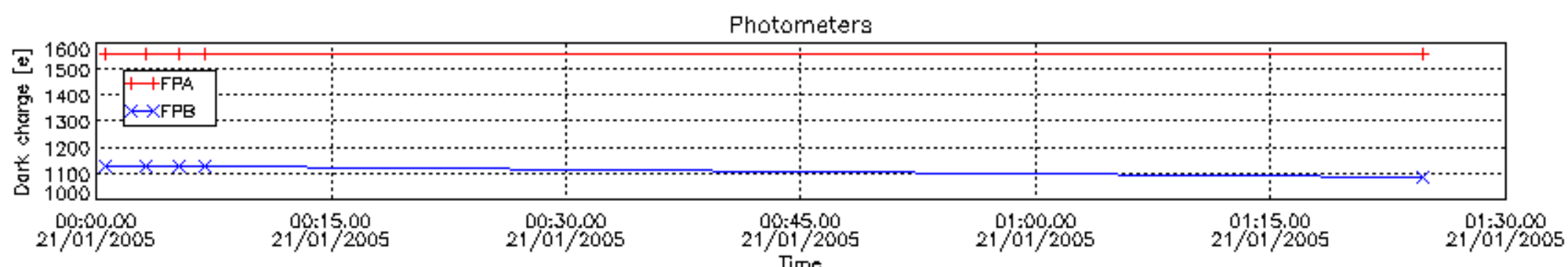
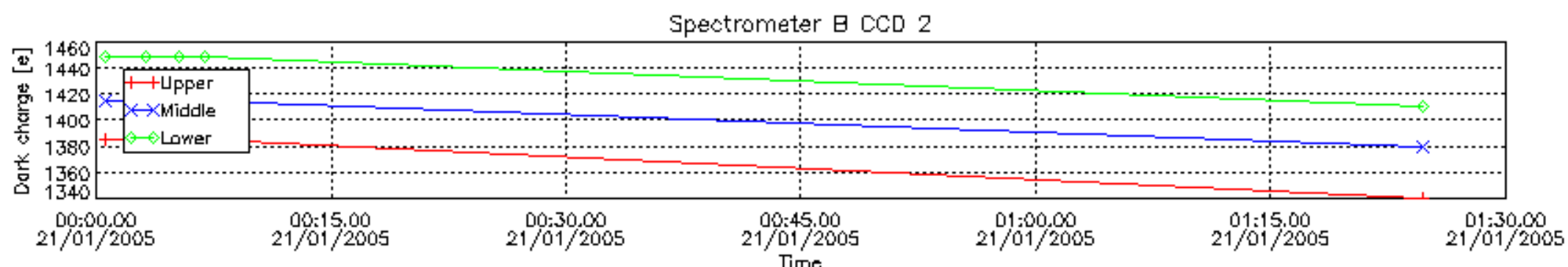
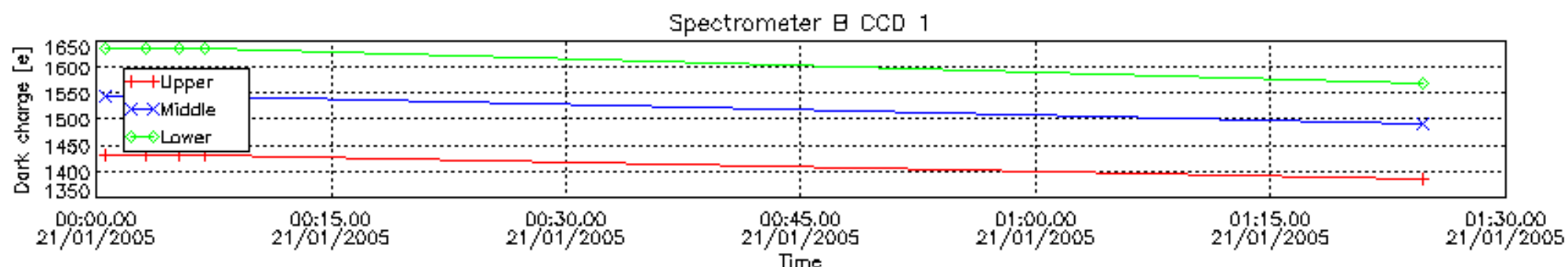
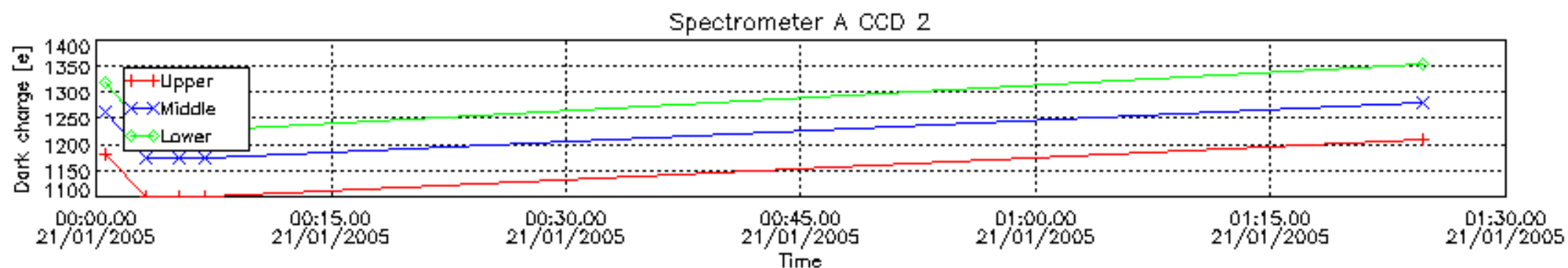
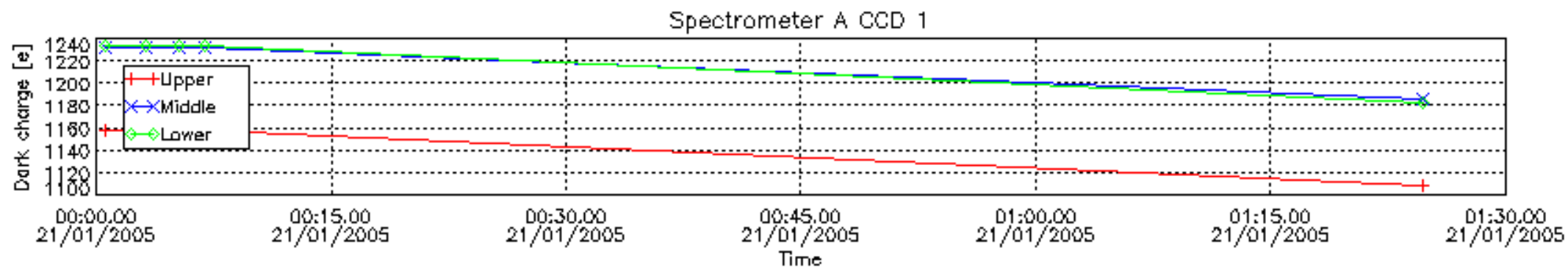
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.3	1448.1	1460.8	1447.3
St. deviation:	5.5313	6.8083	5.2873	6.6449
Maximum:	1502.0	1495.0	1497.0	1485.0
Minimum:	1381.0	1374.0	1442.0	1417.0
Number of data:	5600.0	5600.0	22050.	22050.

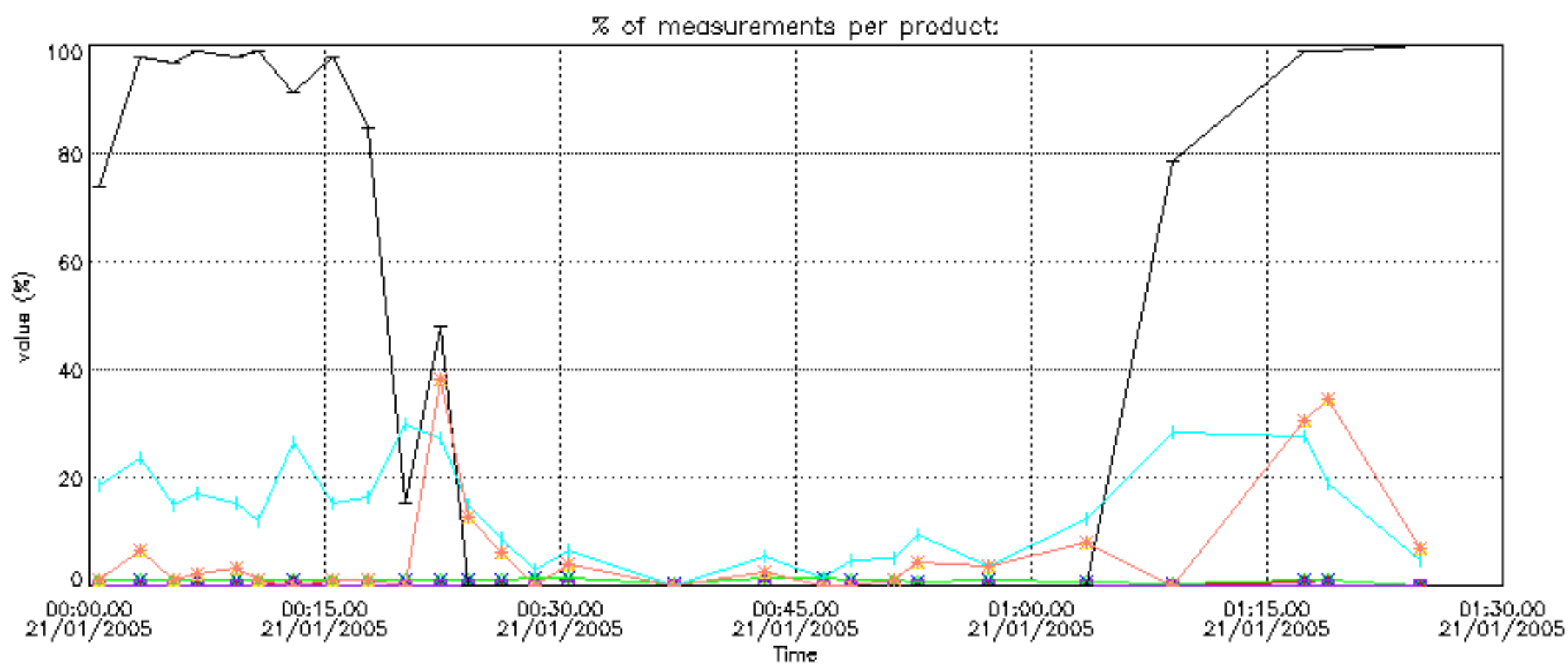
8. Auxiliary Data Files used for the production reported in section 2.2

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.

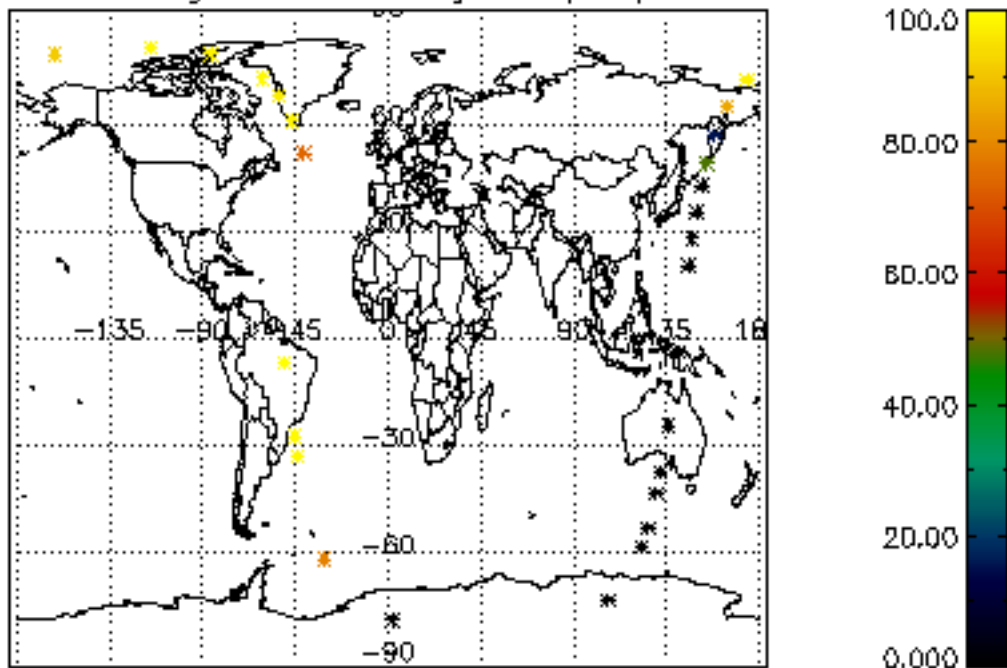
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	21-JAN-2005 00:00:34
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050110_095700_20050108_000000_20100101_000000	1	21-JAN-2005 00:00:34
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	21-JAN-2005 00:00:34
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-JAN-2005 00:00:34
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	21-JAN-2005 00:00:34
ECMWF_FILE	AUX_ECF_AXNECM20050120_064729_20050120_210000_20050121_090000	1	21-JAN-2005 00:00:34
OPTIONAL_ECMWF_FILE	NOT USED	1	21-JAN-2005 00:00:34
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050120_233933_20050120_184411_20050130_201025	1	21-JAN-2005 00:00:34



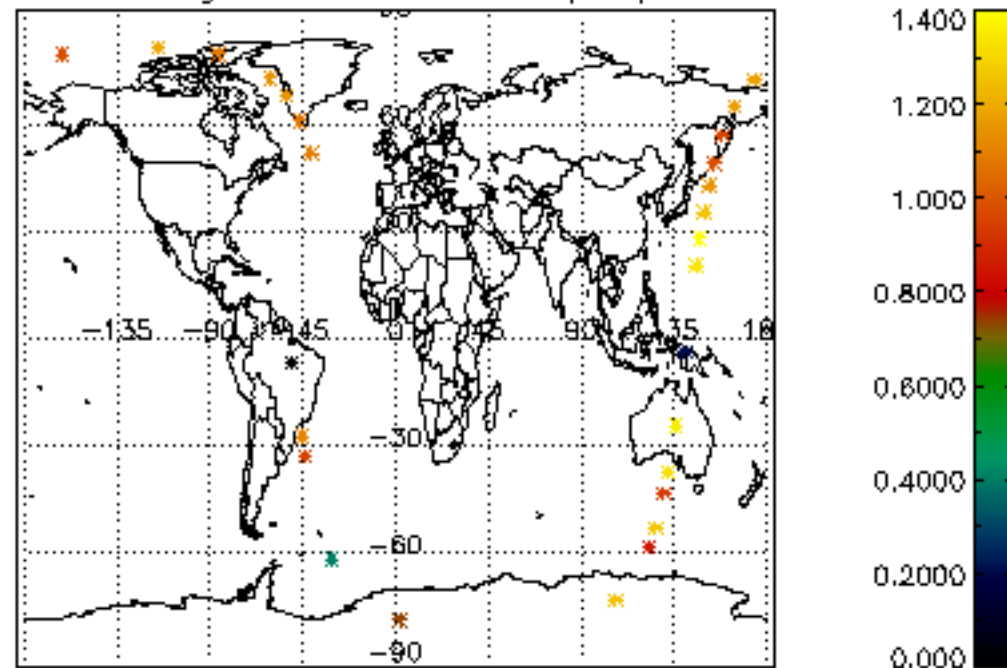




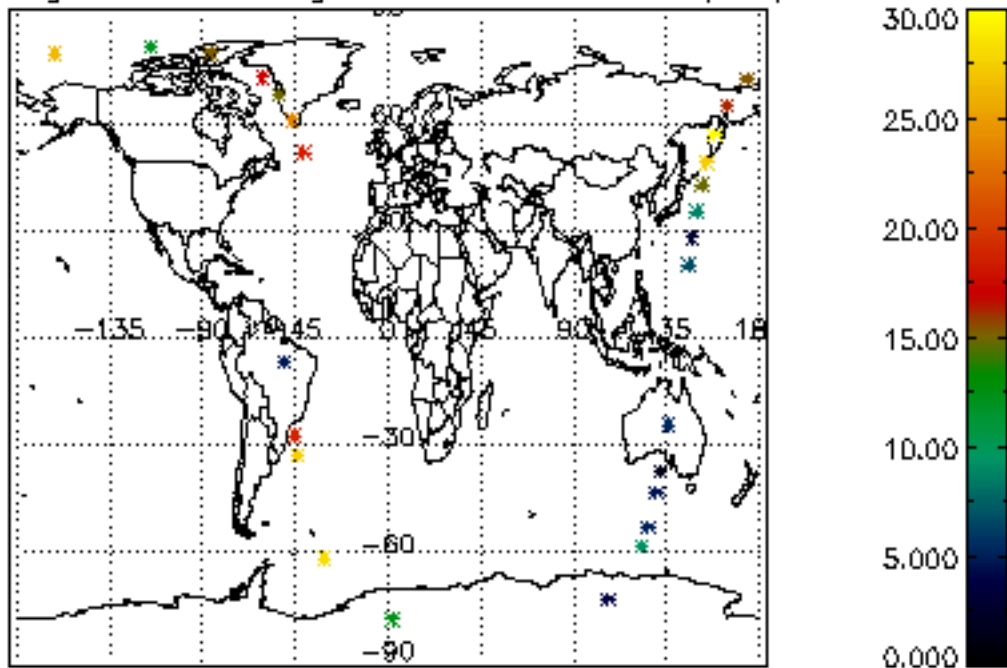
Percentage of cosmic ray hits per profile



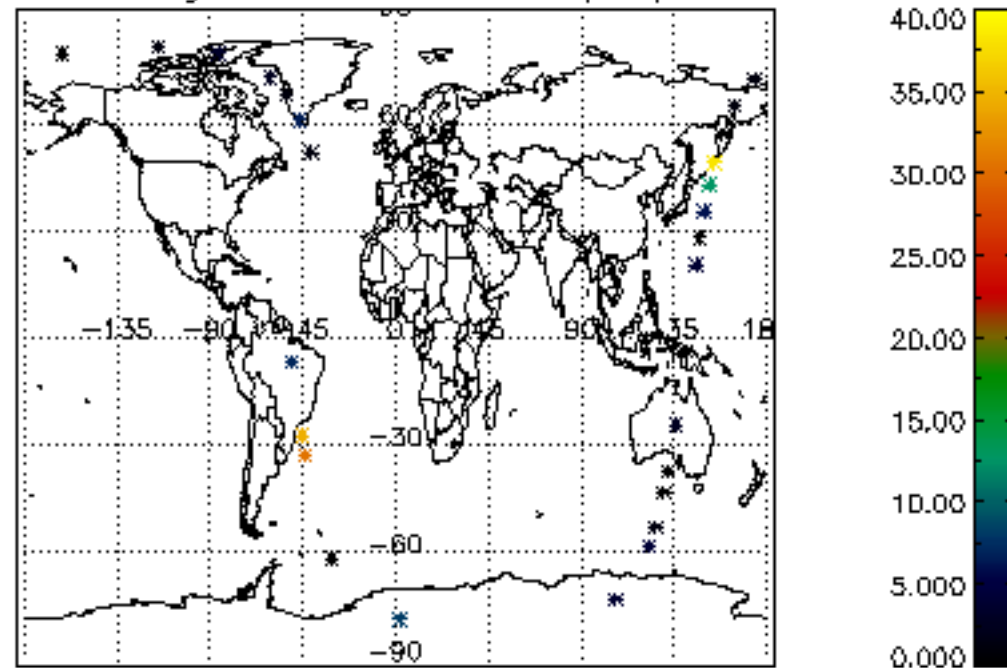
Percentage of datation errors per profile



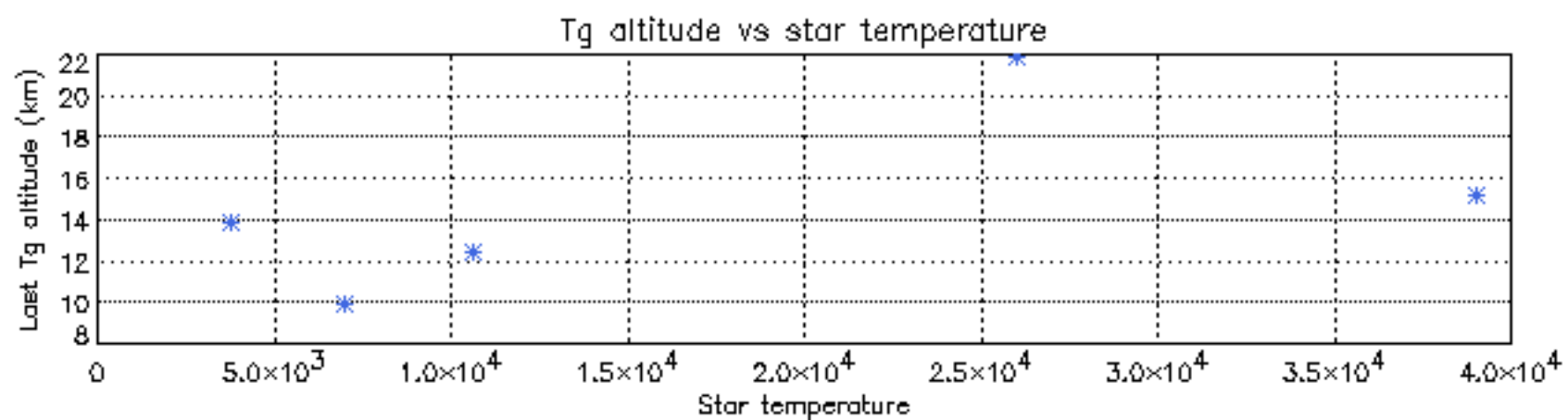
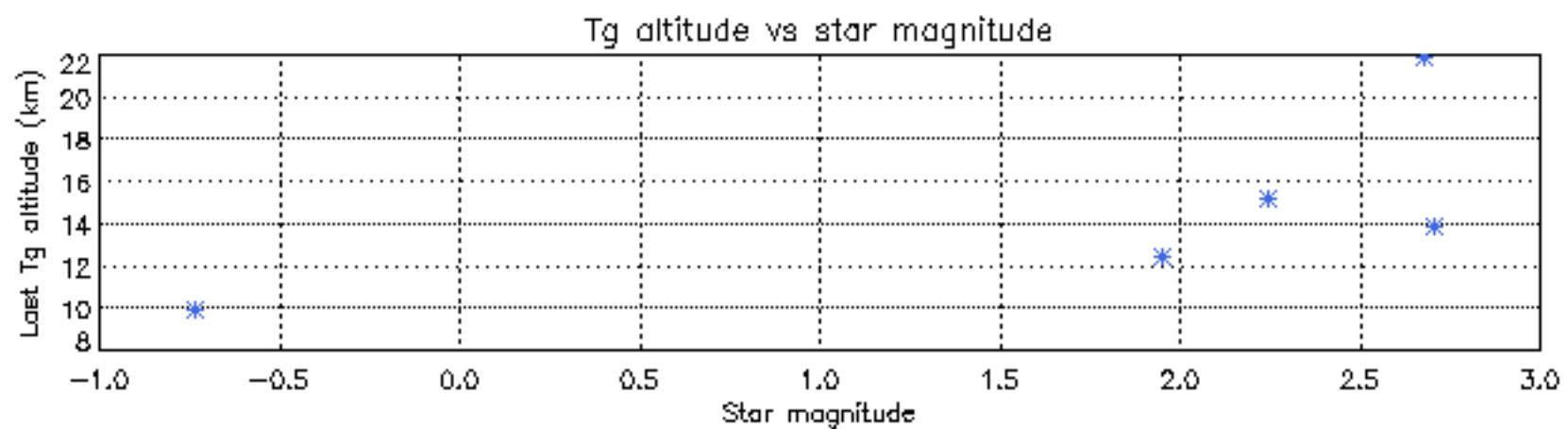
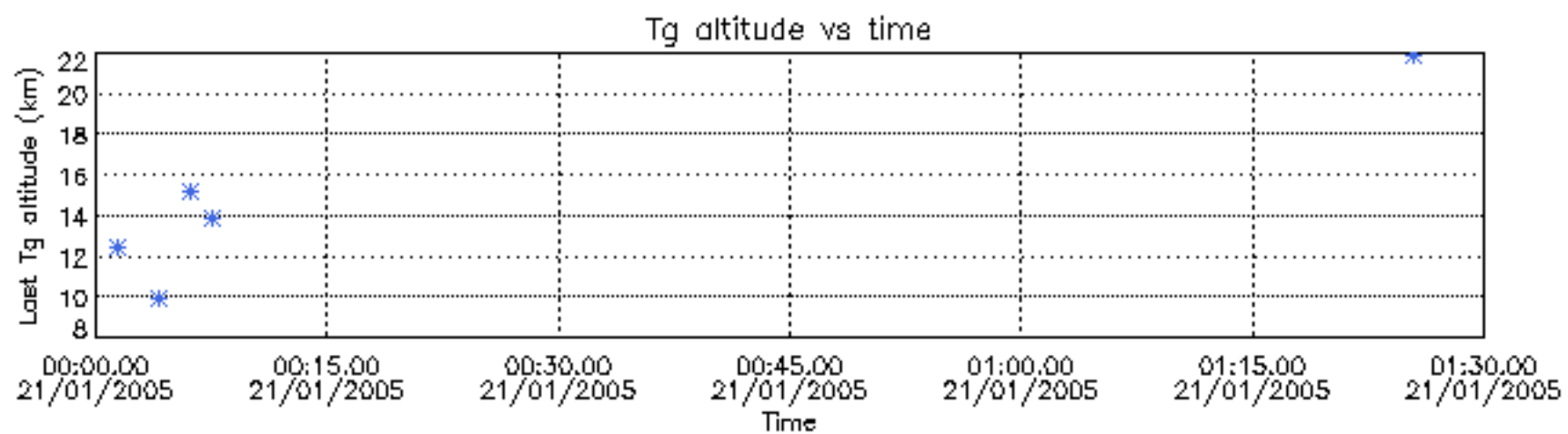
Percentage of star falling outside central band per profile



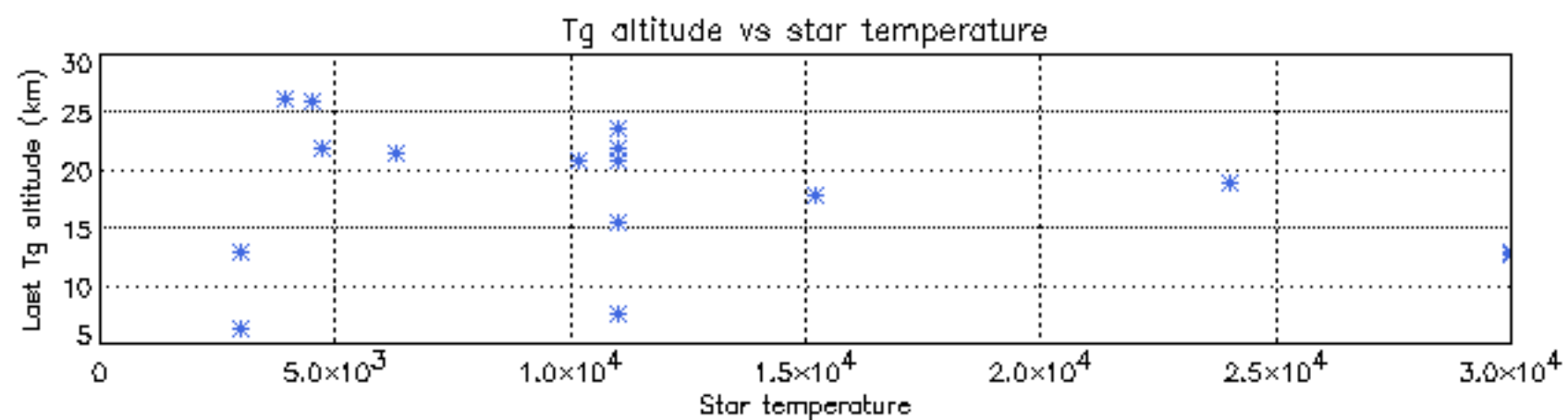
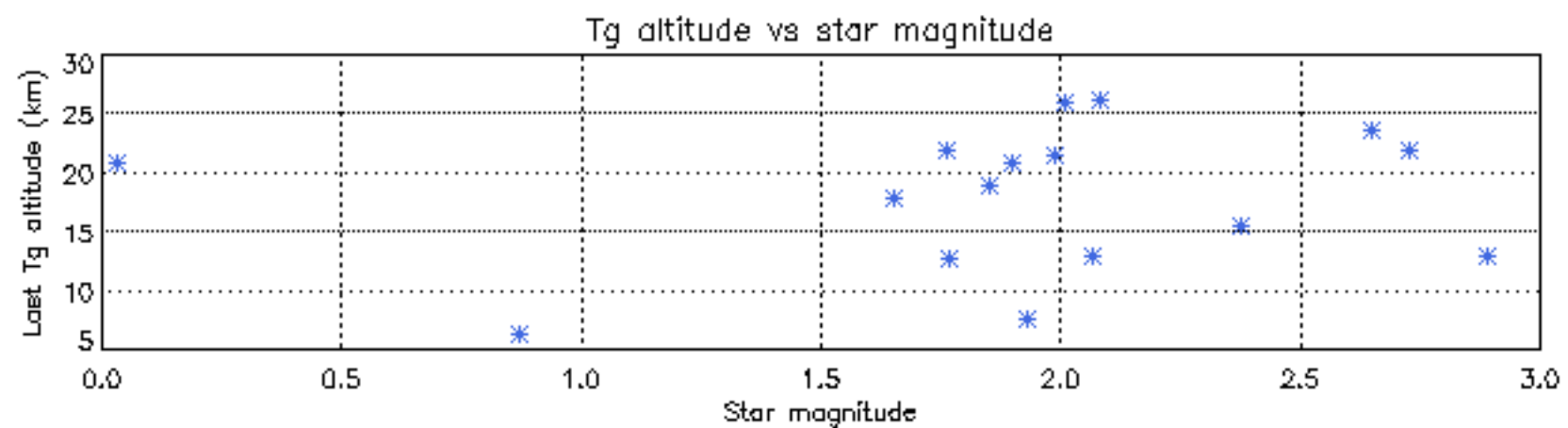
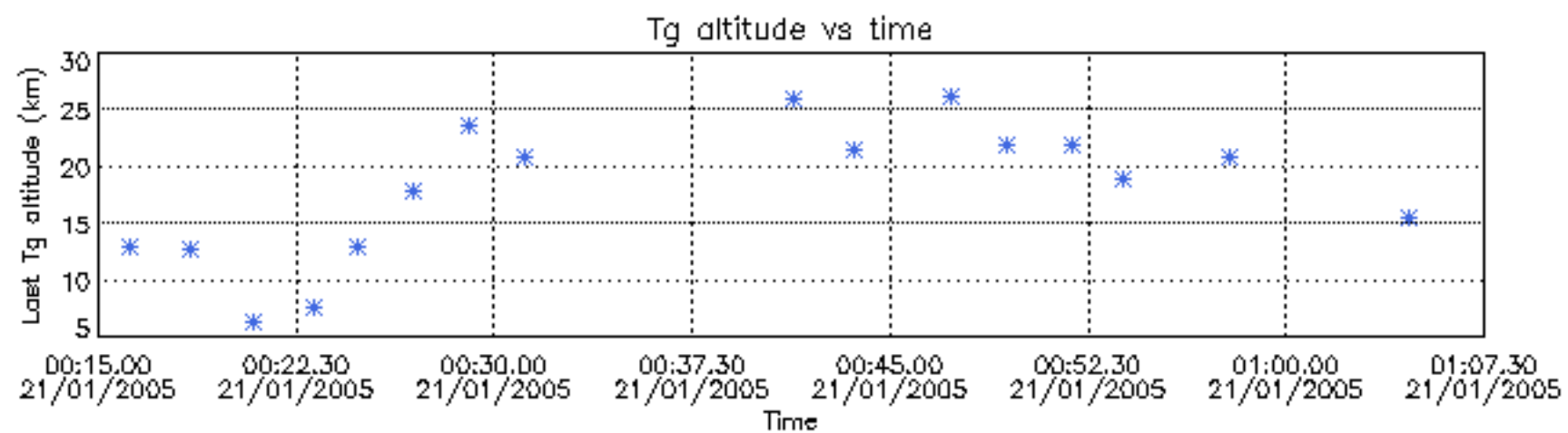
Percentage of saturation errors per profile



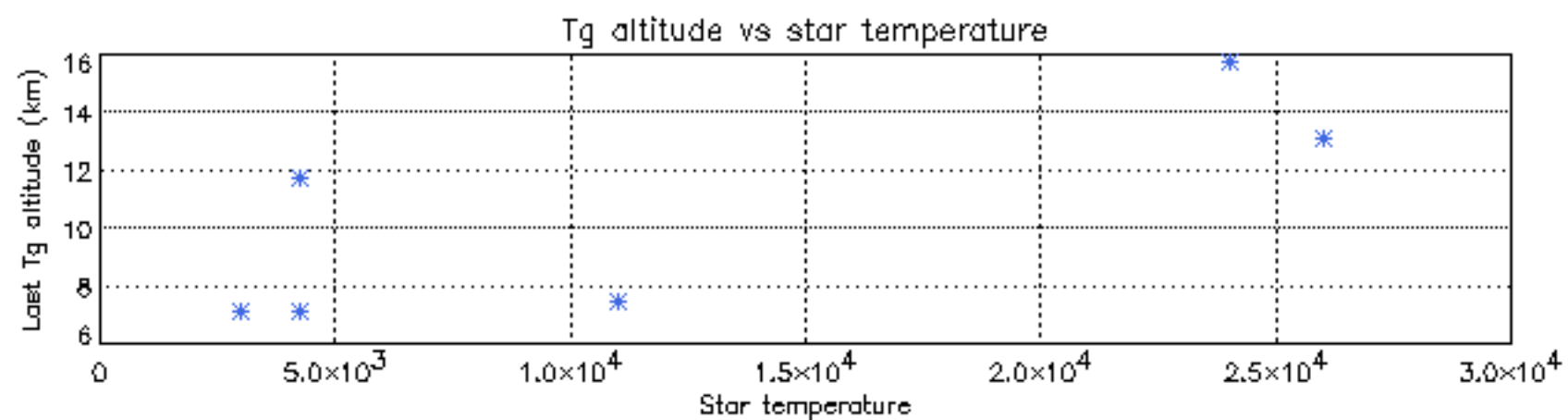
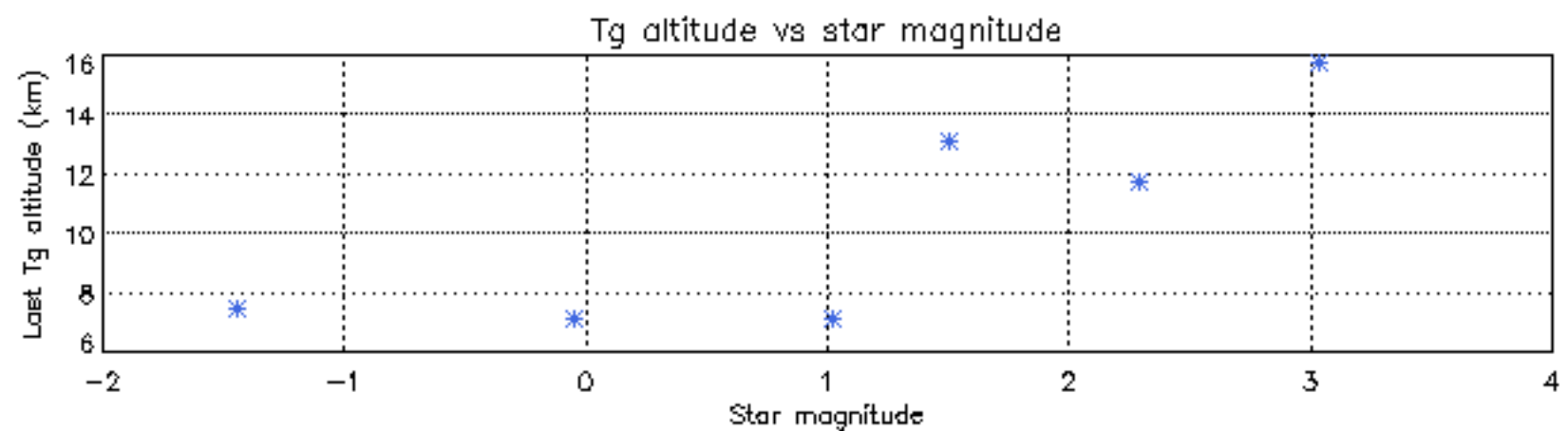
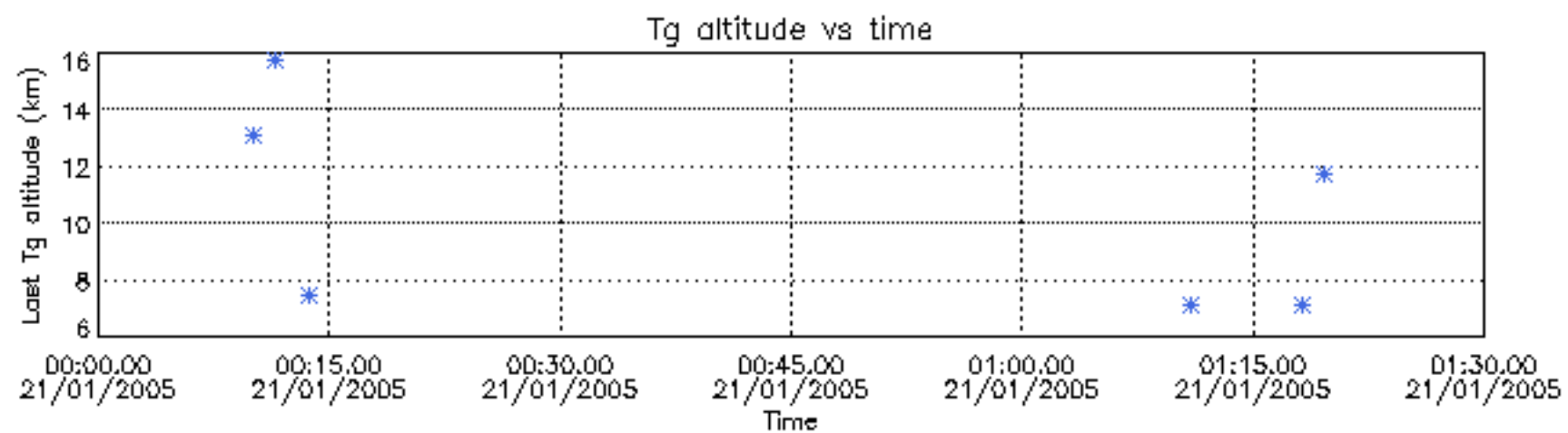
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20050101_000317_000059232033_00259_14842_1596.N1

1; -683.2; 01-JAN-2005 00:03:17; Dark ; 45.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 91; 0;14842
 2; -474.4; 01-JAN-2005 00:06:46; Dark ; 69.0; 15; 67Alp Vir ; 0.98; 28000;occ; 138; 0;14842
 3; -192.1; 01-JAN-2005 00:11:28; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;14842
 4; -105.7; 01-JAN-2005 00:12:55; Dark ; 45.0; 95; Zet Cen ; 2.55; 26000;occ; 90; 0;14842
 5; -2.3; 01-JAN-2005 00:14:38; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;14842
 6; 106.9; 01-JAN-2005 00:16:27; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 0;14843
 7; 227.0; 01-JAN-2005 00:18:28; Dark ; 55.0; 12; Alp1Cru ; 0.77; 30000;occ; 110; 0;14843
 8; 400.9; 01-JAN-2005 00:21:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14843
 9; 547.0; 01-JAN-2005 00:23:48; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;14843
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26;	2555.1;	03-JAN-2005	01:34:37;	Bright;	;	42.5;	107;	37The Aur	;	2.65;	11000;occ;	85;	0;	14872
27;	2687.7;	03-JAN-2005	01:36:50;	Bright;	;	43.5;	6;	13Alp Aur	;	0.08;	3400;occ;	87;	0;	14872
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37;	4579.9;	03-JAN-2005	02:08:22;	Bright;	;	46.0;	83;		;	2.38;	11000;occ;	92;	0;	14872
38;	4843.5;	03-JAN-2005	02:12:46;	Bright;	;	57.5;	111;	8Eta Boo	;	2.68;	6000;occ;	115;	0;	14872
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9; 709.5; 12-JAN-2005 01:21:07; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;15001
10; 790.1; 12-JAN-2005 01:22:28; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;15001
11; 1013.8; 12-JAN-2005 01:26:12; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;15001
12; 1117.3; 12-JAN-2005 01:27:55; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;15001
13; 1222.6; 12-JAN-2005 01:29:40; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;15001
14; 1376.0; 12-JAN-2005 01:32:14; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;15001
15; 1464.2; 12-JAN-2005 01:33:42; Dark ; 44.5; 179; 240mi2CMA ; 3.03; 24000;occ; 89; 0;15001
16; 1599.9; 12-JAN-2005 01:35:58; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;15001
17; 1795.2; 12-JAN-2005 01:39:13; Dark ; 38.0; 7; 19Bet Ori ; 0.10; 14000;occ; 76; 0;15001
18; 1896.8; 12-JAN-2005 01:40:54; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;15001
19; 2022.9; 12-JAN-2005 01:43:01; Dark ; 65.5; 8; 10Alp CMI ; 0.40; 6500;occ; 131; 0;15001
20; 2190.7; 12-JAN-2005 01:45:48; Dark ; 45.0; 44; 24Gam Gem ; 1.93; 11000;occ; 90; 0;15001
21; 2293.4; 12-JAN-2005 01:47:31; Bright; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;15001
22; 2397.7; 12-JAN-2005 01:49:15; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;15001
23; 2488.3; 12-JAN-2005 01:50:46; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0;15001
24; 2672.5; 12-JAN-2005 01:53:50; Bright; 39.0; 42; 34Bet Aur ; 1.90; 10200;occ; 78; 0;15001
25; 2799.9; 12-JAN-2005 01:55:58; Bright; 52.5; 175; 39Del Per ; 3.01; 19400;occ; 105; 0;15001

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1;	-2365.3;	12-JAN-2005	02:10:28;	Bright;	42.0;	60;	7Bet UMi	; 2.08;	3950;occ;	84;	6;	15001
2;	-2206.1;	12-JAN-2005	02:13:08;	Bright;	53.5;	32;	77Eps UMa	; 1.76;	11000;occ;	107;	0;	15001
3;	-1965.5;	12-JAN-2005	02:17:08;	Bright;	36.5;	130;	23Bet Dra	; 2.80;	5800;occ;	73;	0;	15001
4;	-1785.9;	12-JAN-2005	02:20:08;	Bright;	39.0;	5;	3Alp Lyr	; 0.03;	11000;occ;	78;	0;	15001
5;	-1683.0;	12-JAN-2005	02:21:51;	Bright;	49.5;	180;	27Gam Boo	; 3.04;	8000;occ;	99;	0;	15001
6;	-1424.4;	12-JAN-2005	02:26:09;	Bright;	53.5;	83;		; 2.38;	11000;occ;	107;	0;	15001
7;	-1306.3;	12-JAN-2005	02:28:07;	Bright;	38.0;	59;	55Alp Oph	; 2.08;	8900;occ;	76;	0;	15001
8;	-1088.0;	12-JAN-2005	02:31:46;	Dark	; 89.0;	111;	8Eta Boo	; 2.68;	6000;occ;	178;	0;	15001
9;	-873.0;	12-JAN-2005	02:35:21;	Bright;	38.5;	98;	13Zet Oph	; 2.57;	30000;occ;	77;	0;	15001
10;	-752.5;	12-JAN-2005	02:37:21;	Dark	; 48.5;	104;	27Bet Lib	; 2.61;	13100;occ;	97;	0;	15001
11;	-606.8;	12-JAN-2005	02:39:47;	Dark	; 50.0;	16;	21Alp Sco	; 1.02;	3000;occ;	100;	0;	15001
12;	-298.4;	12-JAN-2005	02:44:55;	Dark	; 40.0;	131;	Gam Lup	; 2.80;	26000;occ;	80;	0;	15001
13;	-180.6;	12-JAN-2005	02:46:53;	Dark	; 97.5;	15;	67Alp Vir	; 0.98;	28000;occ;	195;	0;	15001
14;	257.1;	12-JAN-2005	02:54:11;	Dark	; 46.5;	20;	Bet Cru	; 1.25;	30000;occ;	93;	0;	15002
15;	363.0;	12-JAN-2005	02:55:57;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	15002
16;	511.0;	12-JAN-2005	02:58:25;	Dark	; 40.5;	124;	The Car	; 2.76;	30000;occ;	81;	0;	15002
17;	600.8;	12-JAN-2005	02:59:54;	Dark	; 47.0;	29;	Bet Car	; 1.67;	10200;occ;	94;	0;	15002
18;	710.1;	12-JAN-2005	03:01:44;	Dark	; 44.0;	71;	Iot Car	; 2.25;	7700;occ;	88;	0;	15002
19;	789.8;	12-JAN-2005	03:03:03;	Dark	; 54.0;	41;	Eps Car	; 1.86;	4100;occ;	108;	0;	15002
20;	1014.5;	12-JAN-2005	03:06:48;	Dark	; 47.0;	2;	Alp Car	; -0.74;	7000;occ;	94;	0;	15002
21;	1117.5;	12-JAN-2005	03:08:31;	Dark	; 47.0;	70;	Zet Pup	; 2.25;	39000;occ;	94;	0;	15002
22;	1222.2;	12-JAN-2005	03:10:16;	Dark	; 48.5;	117;	Pi Pup	; 2.71;	3800;occ;	97;	0;	15002
23;	1376.3;	12-JAN-2005	03:12:50;	Dark	; 49.0;	23;	21Eps CMa	; 1.50;	26000;occ;	98;	0;	15002
24;	1464.5;	12-JAN-2005	03:14:18;	Dark	; 43.0;	179;	240mi2CMa	; 3.03;	24000;occ;	86;	0;	15002
25;	1600.1;	12-JAN-2005	03:16:34;	Dark	; 48.0;	1;	9Alp CMa	; -1.44;	11000;occ;	96;	0;	15002
26;	1795.3;	12-JAN-2005	03:19:49;	Dark	; 43.0;	7;	19Bet Ori	; 0.10;	14000;occ;	86;	0;	15002
27;	1896.9;	12-JAN-2005	03:21:31;	Dark	; 43.0;	30;	46Eps Ori	; 1.69;	30000;occ;	86;	0;	15002
28;	2022.6;	12-JAN-2005	03:23:36;	Dark	; 62.0;	8;	10Alp CMi	; 0.40;	6500;occ;	124;	0;	15002
29;	2190.6;	12-JAN-2005	03:26:24;	Dark	; 44.0;	44;	24Gam Gem	; 1.93;	11000;occ;	88;	0;	15002
30;	2292.6;	12-JAN-2005	03:28:06;	Bright;	44.5;	151;	13Mu Gem	; 2.89;	3000;occ;	89;	0;	15002
31;	2396.8;	12-JAN-2005	03:29:50;	Bright;	39.5;	28;	12Bet Tau	; 1.65;	15200;occ;	79;	0;	15002
32;	2487.8;	12-JAN-2005	03:31:21;	Bright;	40.5;	114;	3Iot Aur	; 2.69;	4600;occ;	81;	0;	15002
33;	2672.5;	12-JAN-2005	03:34:26;	Bright;	37.5;	42;	34Bet Aur	; 1.90;	10200;occ;	75;	0;	15002
34;	2800.1;	12-JAN-2005	03:36:34;	Bright;	37.0;	175;	39Del Per	; 3.01;	19400;occ;	74;	0;	15002

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1;	-2365.4;	12-JAN-2005	05:31:40;	Bright;	41.5;	60;	7Bet UMi	; 2.08;	3950;occ;	83;	5;	15003
2;	-2206.9;	12-JAN-2005	05:34:19;	Bright;	51.5;	32;	77Eps UMa	; 1.76;	11000;occ;	103;	0;	15003
3;	-1965.7;	12-JAN-2005	05:38:20;	Bright;	35.5;	130;	23Bet Dra	; 2.80;	5800;occ;	71;	0;	15003
4;	-1783.9;	12-JAN-2005	05:41:22;	Bright;	36.5;	5;	3Alp Lyr	; 0.03;	11000;occ;	73;	0;	15003
5;	-1683.2;	12-JAN-2005	05:43:02;	Bright;	49.0;	180;	27Gam Boo	; 3.04;	8000;occ;	98;	0;	15003
6;	-1424.1;	12-JAN-2005	05:47:22;	Bright;	53.5;	83;		; 2.38;	11000;occ;	107;	0;	15003
7;	-1304.1;	12-JAN-2005	05:49:22;	Bright;	36.5;	59;	55Alp Oph	; 2.08;	8900;occ;	73;	0;	15003
8;	-1086.0;	12-JAN-2005	05:53:00;	Dark	; 80.0;	111;	8Eta Boo	; 2.68;	6000;occ;	160;	0;	15003
9;	-872.5;	12-JAN-2005	05:56:33;	Bright;	53.0;	98;	13Zet Oph	; 2.57;	30000;occ;	106;	0;	15003
10;	-751.2;	12-JAN-2005	05:58:34;	Dark	; 50.5;	104;	27Bet Lib	; 2.61;	13100;occ;	101;	0;	15003
11;	-606.2;	12-JAN-2005	06:00:59;	Dark	; 45.0;	16;	21Alp Sco	; 1.02;	3000;occ;	90;	0;	15003
12;	-297.5;	12-JAN-2005	06:06:08;	Dark	; 43.0;	131;	Gam Lup	; 2.80;	26000;occ;	86;	0;	15003
13;	-175.8;	12-JAN-2005	06:08:10;	Dark	; 93.0;	15;	67Alp Vir	; 0.98;	28000;occ;	186;	0;	15003
14;	261.1;	12-JAN-2005	06:15:27;	Dark	; 42.5;	20;	Bet Cru	; 1.25;	30000;occ;	85;	0;	15004
15;	364.7;	12-JAN-2005	06:17:10;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	15004
16;	512.9;	12-JAN-2005	06:19:39;	Dark	; 41.0;	124;	The Car	; 2.76;	30000;occ;	82;	0;	15004
17;	602.3;	12-JAN-2005	06:21:08;	Dark	; 39.0;	29;	Bet Car	; 1.67;	10200;occ;	78;	0;	15004
18;	711.8;	12-JAN-2005	06:22:57;	Dark	; 42.0;	71;	Iot Car	; 2.25;	7700;occ;	84;	0;	15004
19;	791.2;	12-JAN-2005	06:24:17;	Dark	; 50.0;	41;	Eps Car	; 1.86;	4100;occ;	100;	0;	15004
20;	1014.8;	12-JAN-2005	06:28:00;	Dark	; 43.5;	2;	Alp Car	; -0.74;	7000;occ;	87;	0;	15004
21;	1118.9;	12-JAN-2005	06:29:45;	Dark	; 45.5;	70;	Zet Pup	; 2.25;	39000;occ;	91;	0;	15004
22;	1223.8;	12-JAN-2005	06:31:29;	Dark	; 45.0;	117;	Pi Pup	; 2.71;	3800;occ;	90;	0;	15004
23;	1379.5;	12-JAN-2005	06:34:05;	Dark	; 48.0;	23;	21Eps CMa	; 1.50;	26000;occ;	96;	0;	15004
24;	1465.4;	12-JAN-2005	06:35:31;	Dark	; 42.5;	179;	240mi2CMa	; 3.03;	24000;occ;	85;	0;	15004
25;	1601.4;	12-JAN-2005	06:37:47;	Dark	; 47.0;	1;	9Alp CMa	; -1.44;	11000;occ;	94;	0;	15004
26;	1795.3;	12-JAN-2005	06:41:01;	Dark	; 52.0;	7;	19Bet Ori	; 0.10;	14000;occ;	104;	0;	15004
27;	1896.9;	12-JAN-2005	06:42:43;	Dark	; 41.5;	30;	46Eps Ori	; 1.69;	30000;occ;	83;	0;	15004
28;	2022.0;	12-JAN-2005	06:44:48;	Dark	; 62.5;	8;	10Alp CMi	; 0.40;	6500;occ;	125;	0;	15004
29;	2191.3;	12-JAN-2005	06:47:37;	Dark	; 46.5;	44;	24Gam Gem	; 1.93;	11000;occ;	93;	0;	15004
30;	2293.0;	12-JAN-2005	06:49:19;	Bright;	45.0;	151;	13Mu Gem	; 2.89;	3000;occ;	90;	0;	15004
31;	2398.1;	12-JAN-2005	06:51:04;	Bright;	39.0;	28;	12Bet Tau	; 1.65;	15200;occ;	78;	0;	15004
32;	2488.8;	12-JAN-2005	06:52:34;	Bright;	39.5;	114;	3Iot Aur	; 2.69;	4600;occ;	79;	0;	15004

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33; 2672.4; 12-JAN-2005 06:55:38; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;15004
34; 2800.0; 12-JAN-2005 06:57:46; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;15004
35; 3667.9; 12-JAN-2005 07:12:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;15004
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2;-2207.9; 12-JAN-2005 07:14:54; Bright; 53.0; 32; 77Eps UMa ; 1.76; 11000;occ; 106; 0;15004
3;-1965.2; 12-JAN-2005 07:18:56; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;15004
4;-1783.6; 12-JAN-2005 07:21:58; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;15004
5;-1682.9; 12-JAN-2005 07:23:39; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0;15004
6;-1423.5; 12-JAN-2005 07:27:58; Bright; 53.5; 83; ; 2.38; 11000;occ; 107; 0;15004
7;-1084.9; 12-JAN-2005 07:33:37; Dark ; 82.0; 111; 8Eta Boo ; 2.68; 6000;occ; 164; 0;15004
8; -872.8; 12-JAN-2005 07:37:09; Bright; 39.5; 98; 13Zet Oph ; 2.57; 30000;occ; 79; 0;15004
9; -749.8; 12-JAN-2005 07:39:12; Dark ; 49.5; 104; 27Bet Lib ; 2.61; 13100;occ; 99; 0;15004
10; -605.9; 12-JAN-2005 07:41:36; Dark ; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;15004
11; -297.0; 12-JAN-2005 07:46:45; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;15004
12; -173.4; 12-JAN-2005 07:48:48; Dark ; 94.0; 15; 67Alp Vir ; 0.98; 28000;occ; 188; 0;15004
13; 261.6; 12-JAN-2005 07:56:03; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0;15005
14; 365.7; 12-JAN-2005 07:57:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;15005
15; 513.1; 12-JAN-2005 08:00:15; Dark ; 41.0; 124; The Car ; 2.76; 30000;occ; 82; 0;15005
16; 602.7; 12-JAN-2005 08:01:44; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;15005
17; 712.4; 12-JAN-2005 08:03:34; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;15005
18; 791.6; 12-JAN-2005 08:04:53; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;15005
19; 1014.6; 12-JAN-2005 08:08:36; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;15005
20; 1120.1; 12-JAN-2005 08:10:22; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;15005
21; 1224.1; 12-JAN-2005 08:12:06; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;15005
22; 1379.9; 12-JAN-2005 08:14:42; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;15005
23; 1465.7; 12-JAN-2005 08:16:07; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;15005
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2;-4138.9; 12-JAN-2005 08:23:19; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;15005
3;-4014.2; 12-JAN-2005 08:25:23; Dark ; 63.5; 8; 10Alp CMi ; 0.40; 6500;occ; 127; 0;15005
4;-3844.5; 12-JAN-2005 08:28:13; Dark ; 44.0; 44; 24Gam Gem ; 1.93; 11000;occ; 88; 0;15005
5;-3742.1; 12-JAN-2005 08:29:55; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;15005
6;-3637.7; 12-JAN-2005 08:31:40; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;15005
7;-3546.9; 12-JAN-2005 08:33:11; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;15005
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9;-3234.9; 12-JAN-2005 08:38:23; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0;15005
10;-2613.3; 12-JAN-2005 08:48:44; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;15005
11;-2368.3; 12-JAN-2005 08:52:49; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;15005
12;-2208.4; 12-JAN-2005 08:55:29; Bright; 54.0; 32; 77Eps UMa ; 1.76; 11000;occ; 108; 0;15005
13;-1966.1; 12-JAN-2005 08:59:31; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;15005
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21; -605.5; 12-JAN-2005 09:22:12; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;15005
22; -296.5; 12-JAN-2005 09:27:21; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;15005
23; -170.7; 12-JAN-2005 09:29:27; Dark ; 96.0; 15; 67Alp Vir ; 0.98; 28000;occ; 192; 0;15005
24; 10.8; 12-JAN-2005 09:32:28; Dark ; 43.5; 95; Zet Cen ; 2.55; 26000;occ; 87; 0;15006
25; 262.3; 12-JAN-2005 09:36:40; Dark ; 44.0; 20; Bet Cru ; 1.25; 30000;occ; 88; 0;15006
26; 366.6; 12-JAN-2005 09:38:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;15006
27; 513.5; 12-JAN-2005 09:40:51; Dark ; 41.0; 124; The Car ; 2.76; 30000;occ; 82; 0;15006
28; 602.9; 12-JAN-2005 09:42:20; Dark ; 47.0; 29; Bet Car ; 1.67; 10200;occ; 94; 0;15006
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33; 1224.4; 12-JAN-2005 09:52:42; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;15006
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27; 2929.0; 15-JAN-2005 23:51:40; Bright; 107.5; 166; 17Eps Leo ; 2.98; 6000;occ; 215; 0;15057
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5; 654.2; 24-JAN-2005 13:27:25; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;15180
6; 785.8; 24-JAN-2005 13:29:37; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;15180
7; 894.2; 24-JAN-2005 13:31:25; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;15180
8; 1041.2; 24-JAN-2005 13:33:52; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;15180
9; 1176.0; 24-JAN-2005 13:36:07; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;15180
10; 1265.4; 24-JAN-2005 13:37:36; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;15180
11; 1391.2; 24-JAN-2005 13:39:42; Dark ; 42.5; 88; 31Eta CMa ; 2.45; 20000;occ; 85; 0;15180
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2; 263.5; 25-JAN-2005 22:52:53; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;15200
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5; 660.8; 25-JAN-2005 22:59:30; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;15200
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17; 2296.5; 25-JAN-2005 23:26:46; Bright; 40.5; 151; 13Mu Gem ; 2.89; 3000;occ; 81; 0;15200
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