

GOMOS Daily Report 24-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	27JAN2005 05:03:13

Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-3D (24JAN2005 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (25JAN2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

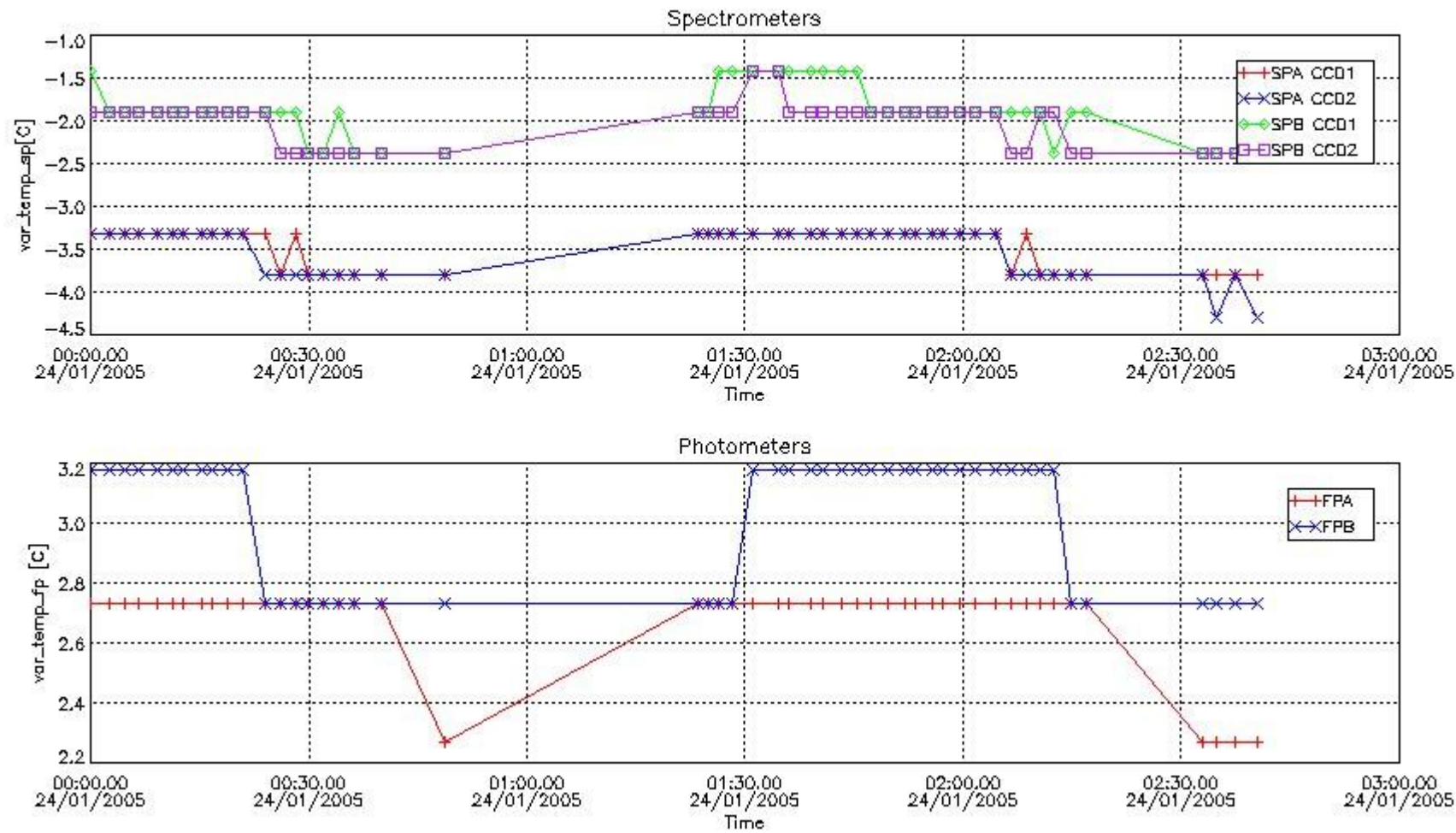
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20050124_000000_000000512034_00088_15172_0008.N1	24-JAN-2005 00:00:00	Dark	50.500	99	Del Cen	2.5750	26000.	101	15172	No
2	GOM_TRA_1PNPDE20050124_000236_000000412034_00088_15172_0009.N1	24-JAN-2005 00:02:36	Dark	40.500	29	Bet Car	1.6720	10200.	81	15172	No
3	GOM_TRA_1PNPDE20050124_000446_000000452034_00088_15172_0010.N1	24-JAN-2005 00:04:46	Dark	45.000	71	Iot Car	2.2460	7700.0	90	15172	No
4	GOM_TRA_1PNPDE20050124_000635_000000432034_00088_15172_0011.N1	24-JAN-2005 00:06:35	Dark	42.500	46	Del Vel	1.9540	10600.	85	15172	No
5	GOM_TRA_1PNPDE20050124_000905_000000522034_00088_15172_0012.N1	24-JAN-2005 00:09:05	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	15172	No
6	GOM_TRA_1PNPDE20050124_001118_000000412034_00088_15172_0013.N1	24-JAN-2005 00:11:18	Dark	41.000	70	Zet Pup	2.2460	39000.	82	15172	No
7	GOM_TRA_1PNPDE20050124_001248_000000442034_00088_15172_0014.N1	24-JAN-2005 00:12:48	Dark	44.000	117	Pi Pup	2.7060	3800.0	88	15172	No
8	GOM_TRA_1PNPDE20050124_001516_000000442034_00088_15172_0015.N1	24-JAN-2005 00:15:16	Twilight	43.500	23	21Eps CMa	1.5020	26000.	87	15172	No
9	GOM_TRA_1PNPDE20050124_001639_000000412034_00088_15172_0016.N1	24-JAN-2005 00:16:39	Twilight	40.500	179	24Omi2CMa	3.0320	24000.	81	15172	No
10	GOM_TRA_1PNPDE20050124_001849_000000452034_00088_15172_0017.N1	24-JAN-2005 00:18:49	Bright	45.000	1	9Alp CMa	-1.4400	11000.	90	15172	No
11	GOM_TRA_1PNPDE20050124_002103_000000622034_00088_15172_0018.N1	24-JAN-2005 00:21:03	Bright	62.000	48	30Alp Hya	1.9770	4100.0	124	15172	No
12	GOM_TRA_1PNPDE20050124_002355_000000432034_00088_15172_0019.N1	24-JAN-2005 00:23:55	Bright	43.000	30	46Eps Ori	1.6940	30000.	86	15172	No
13	GOM_TRA_1PNPDE20050124_002601_000000472034_00088_15172_0020.N1	24-JAN-2005 00:26:01	Bright	46.500	14	58Alp Ori	0.87000	3000.0	93	15172	No
14	GOM_TRA_1PNPDE20050124_002809_000000412034_00088_15172_0021.N1	24-JAN-2005 00:28:09	Bright	41.000	44	24Gam Gem	1.9280	11000.	82	15172	No
15	GOM_TRA_1PNPDE20050124_002955_000000432034_00088_15172_0022.N1	24-JAN-2005 00:29:55	Bright	42.500	151	13Mu Gem	2.8900	3000.0	85	15172	No
16	GOM_TRA_1PNPDE20050124_003159_000000472034_00088_15172_0023.N1	24-JAN-2005 00:31:59	Bright	47.000	17	78Bet Gem	1.1610	4500.0	94	15172	No
17	GOM_TRA_1PNPDE20050124_003409_000000372034_00088_15172_0024.N1	24-JAN-2005 00:34:09	Bright	37.000	107	37The Aur	2.6490	11000.	74	15172	No
18	GOM_TRA_1PNPDE20050124_003617_000000382034_00088_15172_0025.N1	24-JAN-2005 00:36:17	Bright	38.000	42	34Bet Aur	1.9000	10200.	76	15172	No
19	GOM_TRA_1PNPDE20050124_003957_000001412034_00088_15172_0026.N1	24-JAN-2005 00:39:57	Bright	141.00	51	41Gam1Leo	2.0100	4500.0	282	15172	No
20	GOM_TRA_1PNPDE20050124_004848_000000382034_00088_15172_0027.N1	24-JAN-2005 00:48:48	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	15172	No
21	GOM_TRA_1PNPDE20050124_012326_000000472034_00088_15172_0000.N1	24-JAN-2005 01:23:26	Twilight	47.000	16	21Alp Sco	1.0200	3000.0	94	15172	No
22	GOM_TRA_1PNPDE20050124_012452_000000452034_00088_15172_0001.N1	24-JAN-2005 01:24:52	Twilight	44.500	75	26Eps Sco	2.2910	4250.0	89	15172	No
23	GOM_TRA_1PNPDE20050124_012621_000000422034_00088_15172_0002.N1	24-JAN-2005 01:26:21	Twilight	41.500	40	The Sco	1.8590	7100.0	83	15172	No
24	GOM_TRA_1PNPDE20050124_012817_000000392034_00088_15172_0003.N1	24-JAN-2005 01:28:17	Twilight	39.000	147	Alp Ara	2.8770	26000.	78	15172	No
25	GOM_TRA_1PNPDE20050124_013101_000000442034_00088_15172_0004.N1	24-JAN-2005 01:31:01	Dark	44.000	109	Bet Lup	2.6770	26000.	88	15172	No
26	GOM_TRA_1PNPDE20050124_013434_000000462034_00089_15173_0005.N1	24-JAN-2005 01:34:34	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	15173	No
27	GOM_TRA_1PNPDE20050124_013603_000000442034_00089_15173_0006.N1	24-JAN-2005 01:36:03	Dark	43.500	77	Eps Cen	2.3030	28000.	87	15173	No
28	GOM_TRA_1PNPDE20050124_013908_000000422034_00089_15173_0007.N1	24-JAN-2005 01:39:08	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	15173	No
29	GOM_TRA_1PNPDE20050124_014038_000000482034_00089_15173_0008.N1	24-JAN-2005 01:40:38	Dark	48.000	99	Del Cen	2.5750	26000.	96	15173	No
30	GOM_TRA_1PNPDE20050124_014312_000000402034_00089_15173_0009.N1	24-JAN-2005 01:43:12	Dark	40.000	29	Bet Car	1.6720	10200.	80	15173	No
31	GOM_TRA_1PNPDE20050124_014522_000000412034_00089_15173_0010.N1	24-JAN-2005 01:45:22	Dark	41.000	71	Iot Car	2.2460	7700.0	82	15173	No
32	GOM_TRA_1PNPDE20050124_014711_000000412034_00089_15173_0011.N1	24-JAN-2005 01:47:11	Dark	41.000	46	Del Vel	1.9540	10600.	82	15173	No
33	GOM_TRA_1PNPDE20050124_014941_000000522034_00089_15173_0012.N1	24-JAN-2005 01:49:41	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	15173	No
34	GOM_TRA_1PNPDE20050124_015153_000000462034_00089_15173_0013.N1	24-JAN-2005 01:51:53	Dark	45.500	70	Zet Pup	2.2460	39000.	91	15173	No
35	GOM_TRA_1PNPDE20050124_015324_000000492034_00089_15173_0014.N1	24-JAN-2005 01:53:24	Dark	49.000	117	Pi Pup	2.7060	3800.0	98	15173	No
36	GOM_TRA_1PNPDE20050124_015552_000000462034_00089_15173_0015.N1	24-JAN-2005 01:55:52	Twilight	45.500	23	21Eps CMa	1.5020	26000.	91	15173	No
37	GOM_TRA_1PNPDE20050124_015715_000000422034_00089_15173_0016.N1	24-JAN-2005 01:57:15	Twilight	42.000	179	24Omi2CMa	3.0320	24000.	84	15173	No
38	GOM_TRA_1PNPDE20050124_015925_000000492034_00089_15173_0017.N1	24-JAN-2005 01:59:25	Bright	49.000	1	9Alp CMa	-1.4400	11000.	98	15173	No
39	GOM_TRA_1PNPDE20050124_020138_000000752034_00089_15173_0018.N1	24-JAN-2005 02:01:38	Bright	74.500	48	30Alp Hya	1.9770	4100.0	149	15173	No
40	GOM_TRA_1PNPDE20050124_020431_000000452034_00089_15173_0019.N1	24-JAN-2005 02:04:31	Bright	45.000	30	46Eps Ori	1.6940	30000.	90	15173	No
41	GOM_TRA_1PNPDE20050124_020637_000000522034_00089_15173_0020.N1	24-JAN-2005 02:06:37	Bright	52.000	14	58Alp Ori	0.87000	3000.0	104	15173	No
42	GOM_TRA_1PNPDE20050124_020846_000000412034_00089_15173_0021.N1	24-JAN-2005 02:08:46	Bright	40.500	44	24Gam Gem	1.9280	11000.	81	15173	No
43	GOM_TRA_1PNPDE20050124_021031_000000412034_00089_15173_0022.N1	24-JAN-2005 02:10:31	Bright	41.000	151	13Mu Gem	2.8900	3000.0	82	15173	No
44	GOM_TRA_1PNPDE20050124_021235_000000582034_00089_15173_0023.N1	24-JAN-2005 02:12:35	Bright	58.000	17	78Bet Gem	1.1610	4500.0	116	15173	No
45	GOM_TRA_1PNPDE20050124_021445_000000382034_00089_15173_0024.N1	24-JAN-2005 02:14:45	Bright	38.000	107	37The Aur	2.6490	11000.	76	15173	No
46	GOM_TRA_1PNPDE20050124_021653_000000392034_00089_15173_0025.N1	24-JAN-2005 02:16:53	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	15173	No

47	GOM_TRA_1PNPDE20050124_023256_000000422034_00089_15173_0000.N1	24-JAN-2005 02:32:56	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	15173	No
48	GOM_TRA_1PNPDE20050124_023455_000000392034_00089_15173_0001.N1	24-JAN-2005 02:34:55	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	15173	No
49	GOM_TRA_1PNPDE20050124_023729_000000412034_00089_15173_0002.N1	24-JAN-2005 02:37:29	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	15173	No
50	GOM_TRA_1PNPDE20050124_024024_000000372034_00089_15173_0003.N1	24-JAN-2005 02:40:24	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	15173	No

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



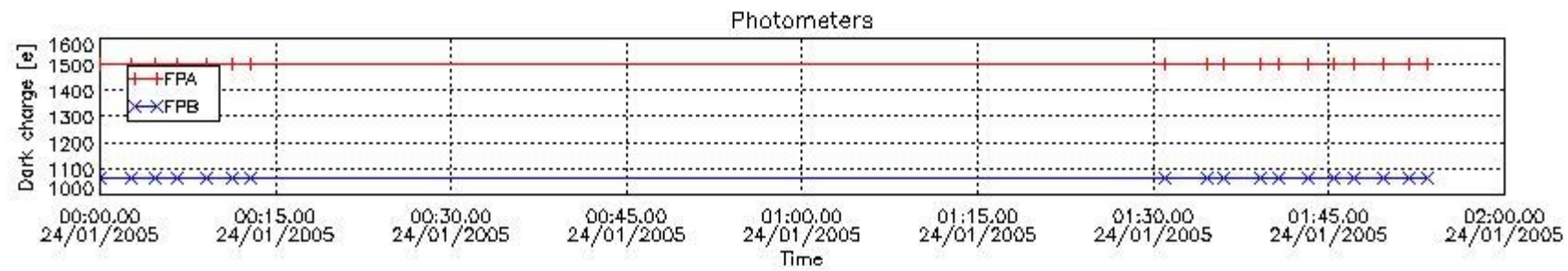
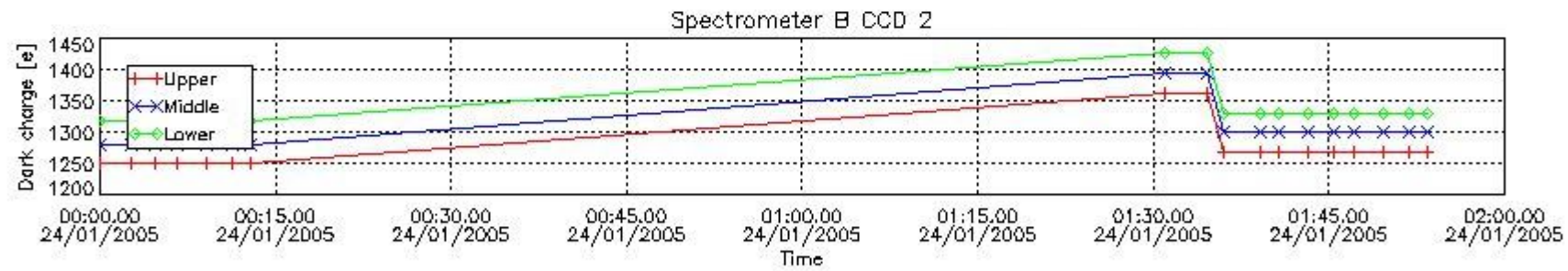
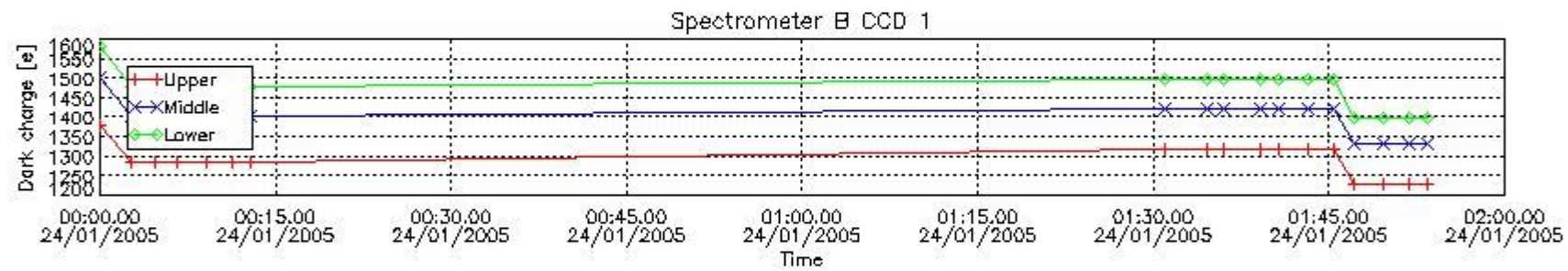
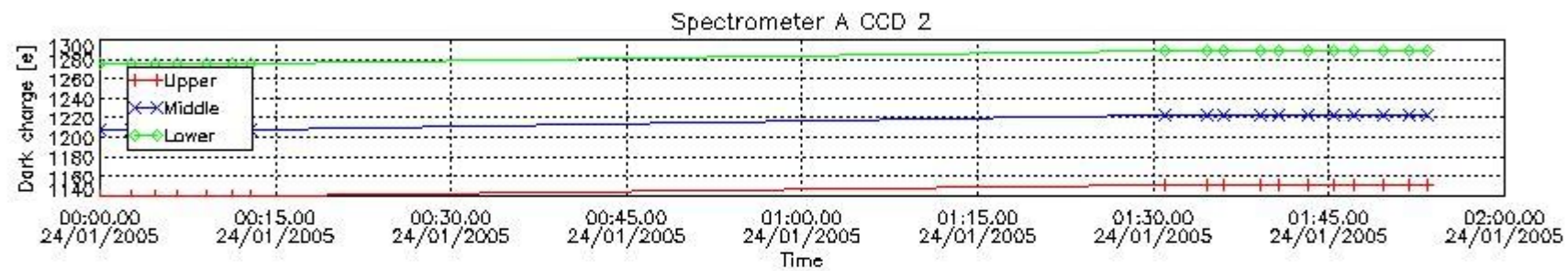
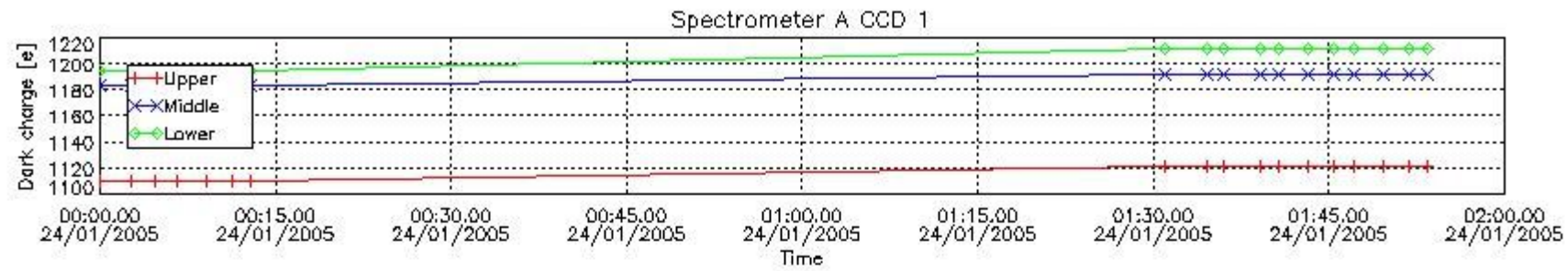
4. Overview of dark signal processing per product

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



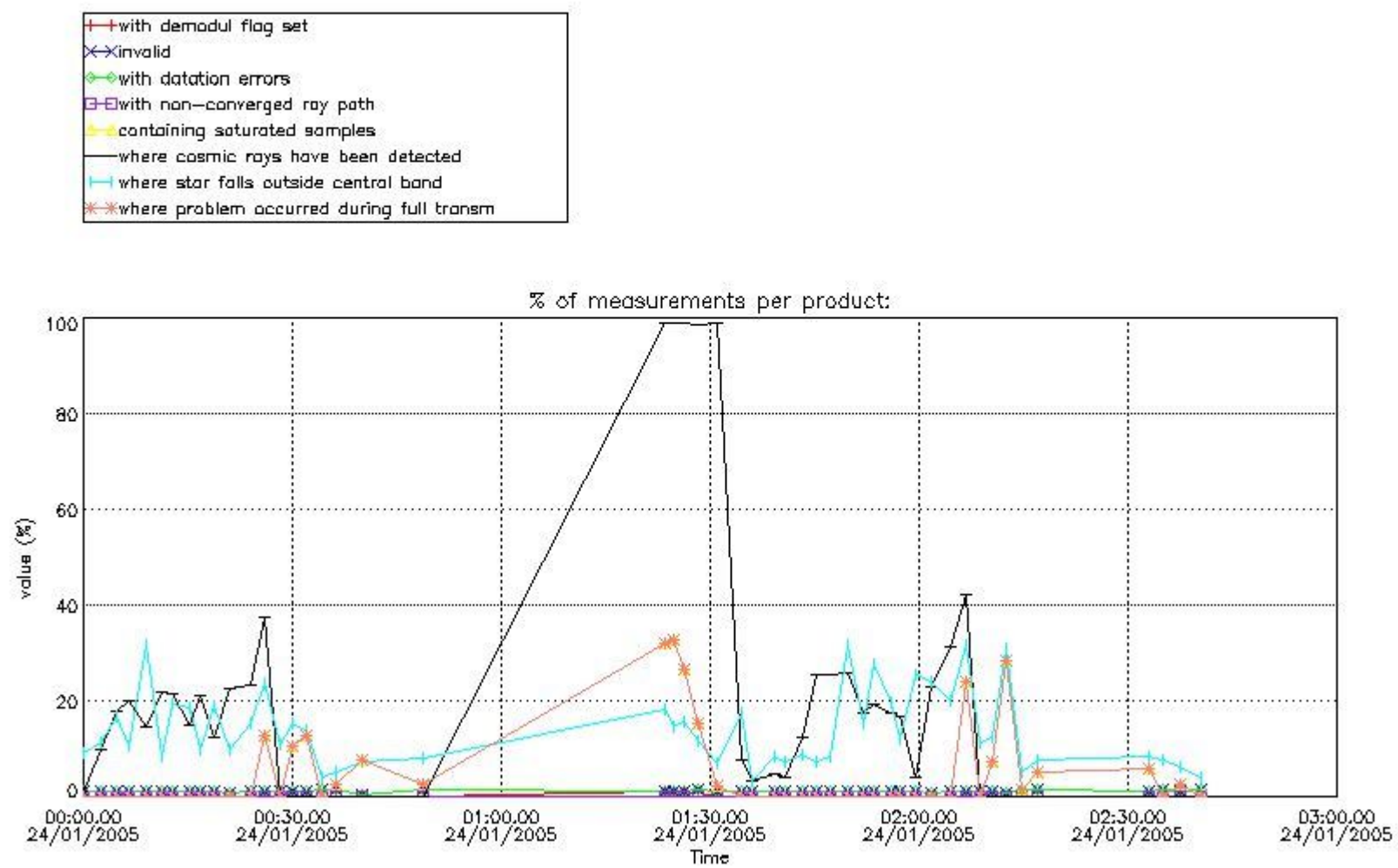
5. Demodulation flag and quality information monitoring

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.

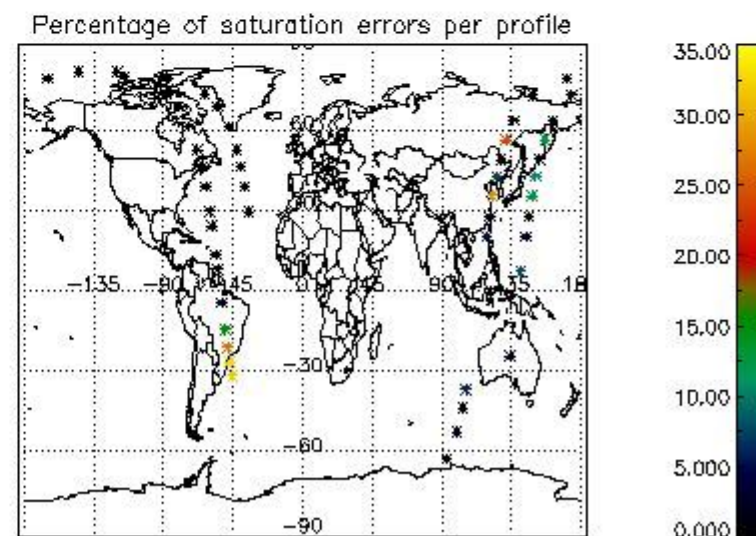
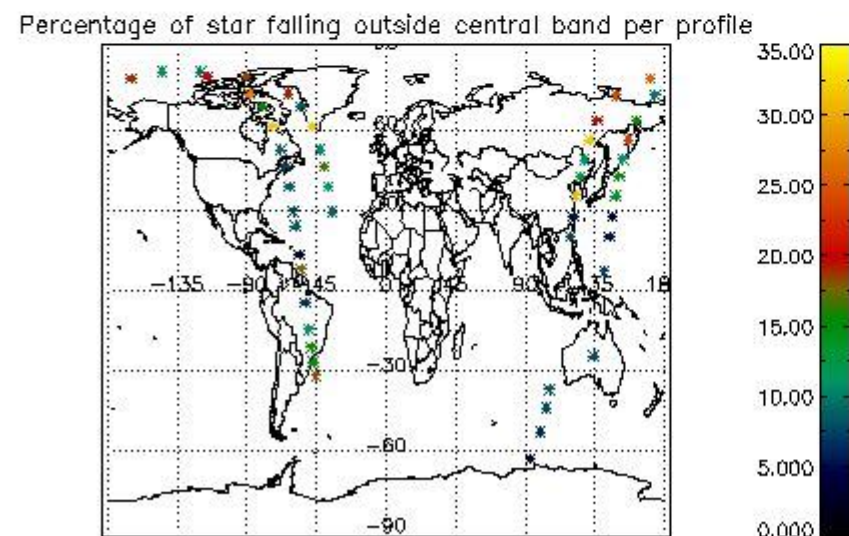
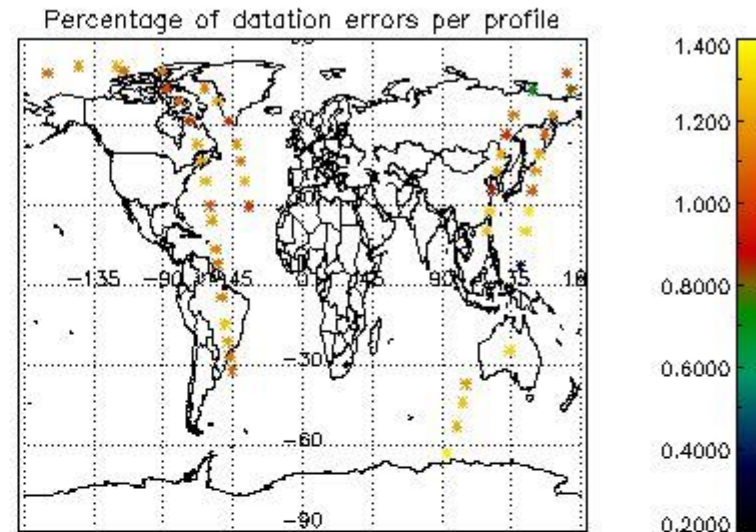
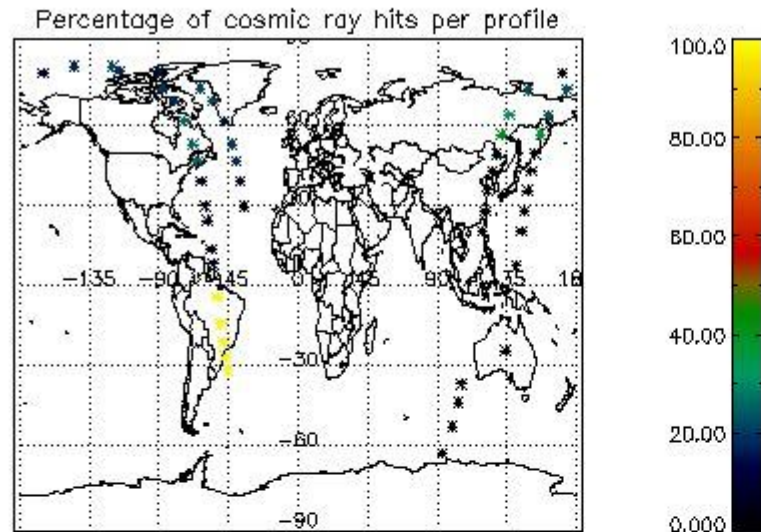
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



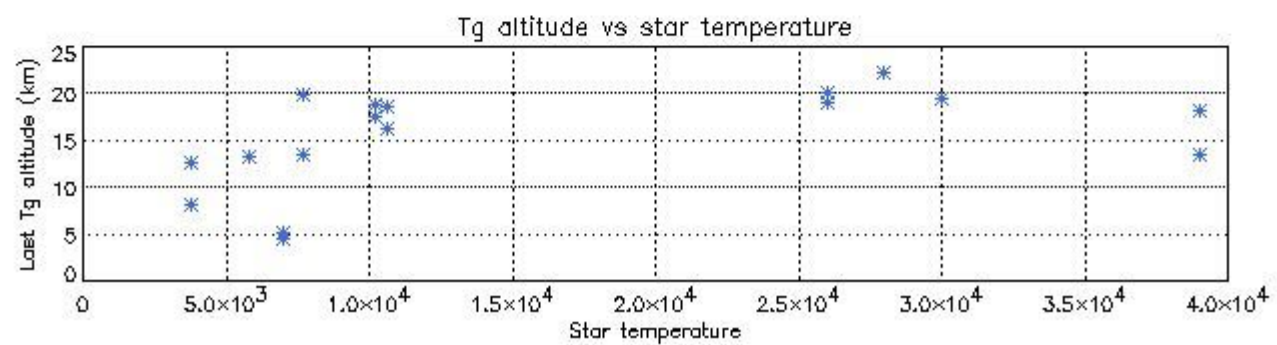
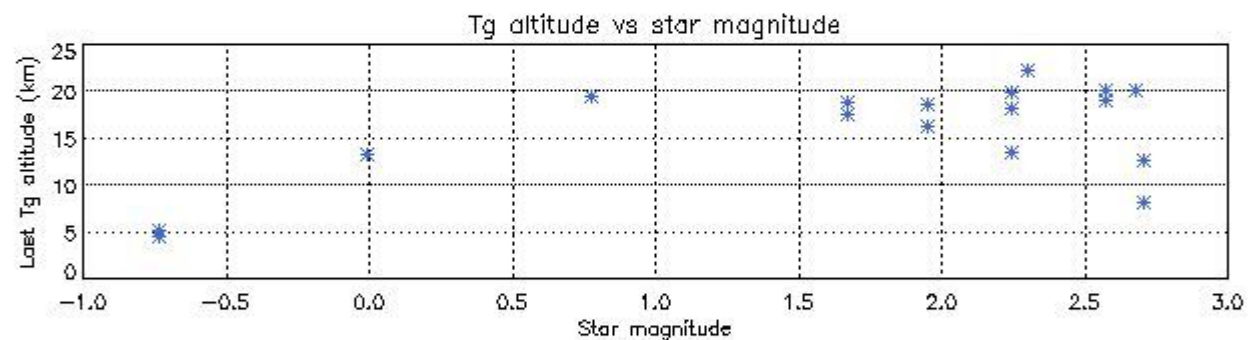
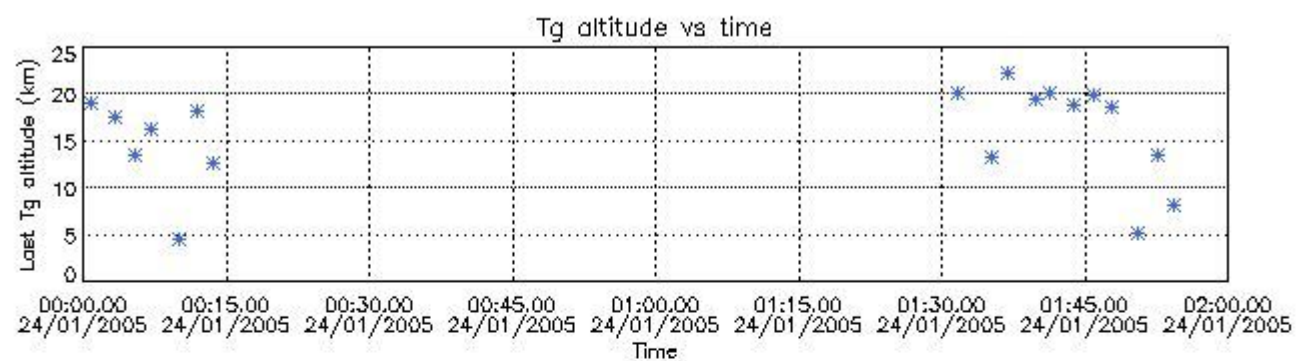
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.578	15.703	14.046
St. deviation:	5.2880	5.3843	2.1315
Maximum:	22.184	23.217	17.272
Minimum:	4.4459	5.3905	10.651
Number of data:	18.000	24.000	8.0000

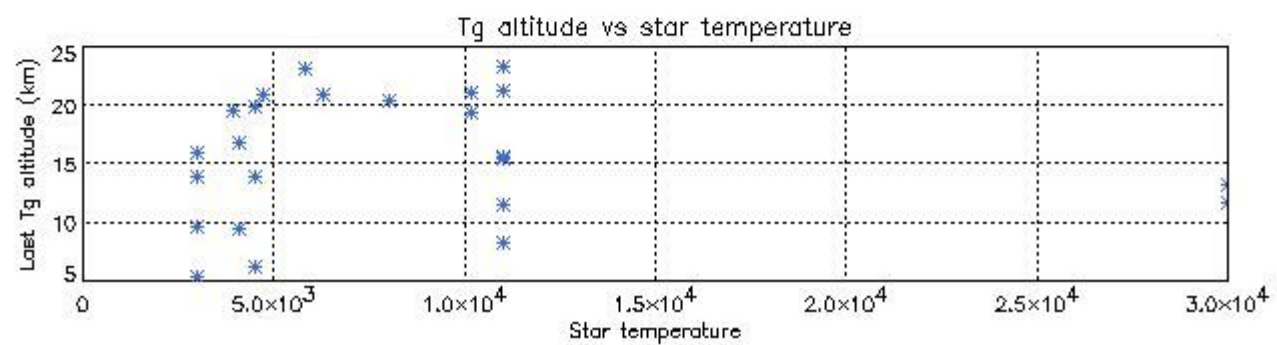
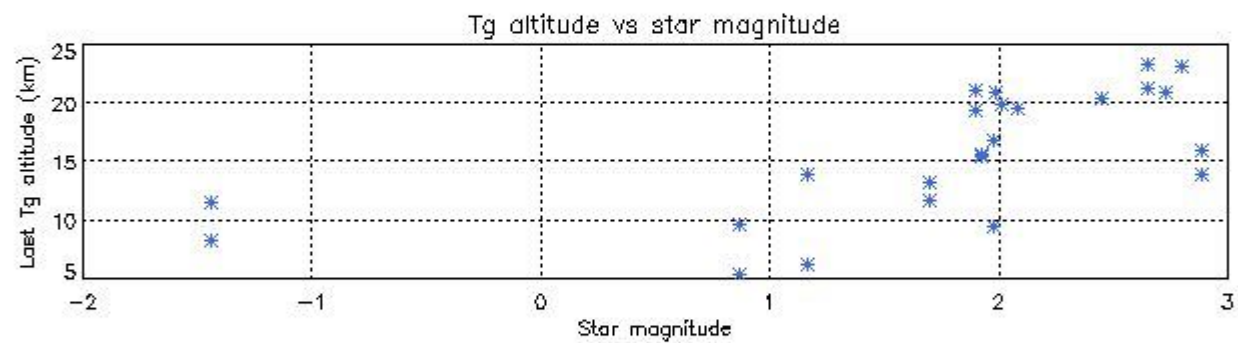
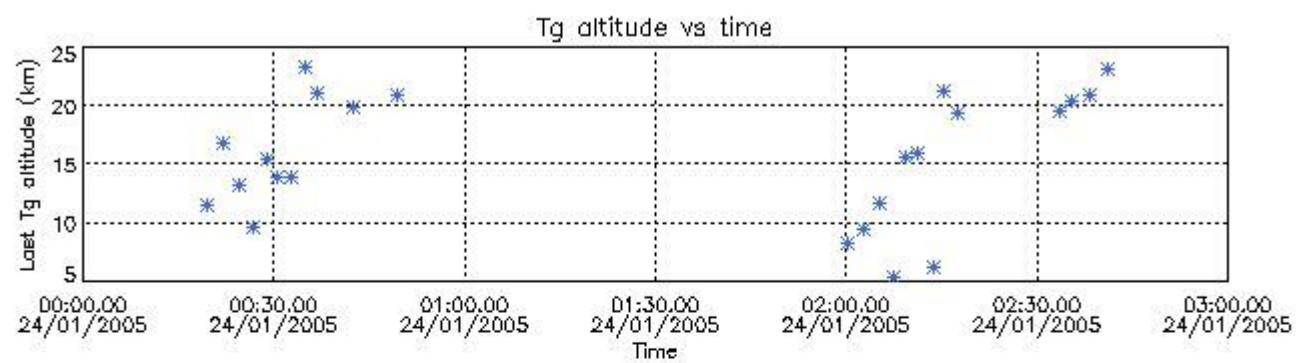
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



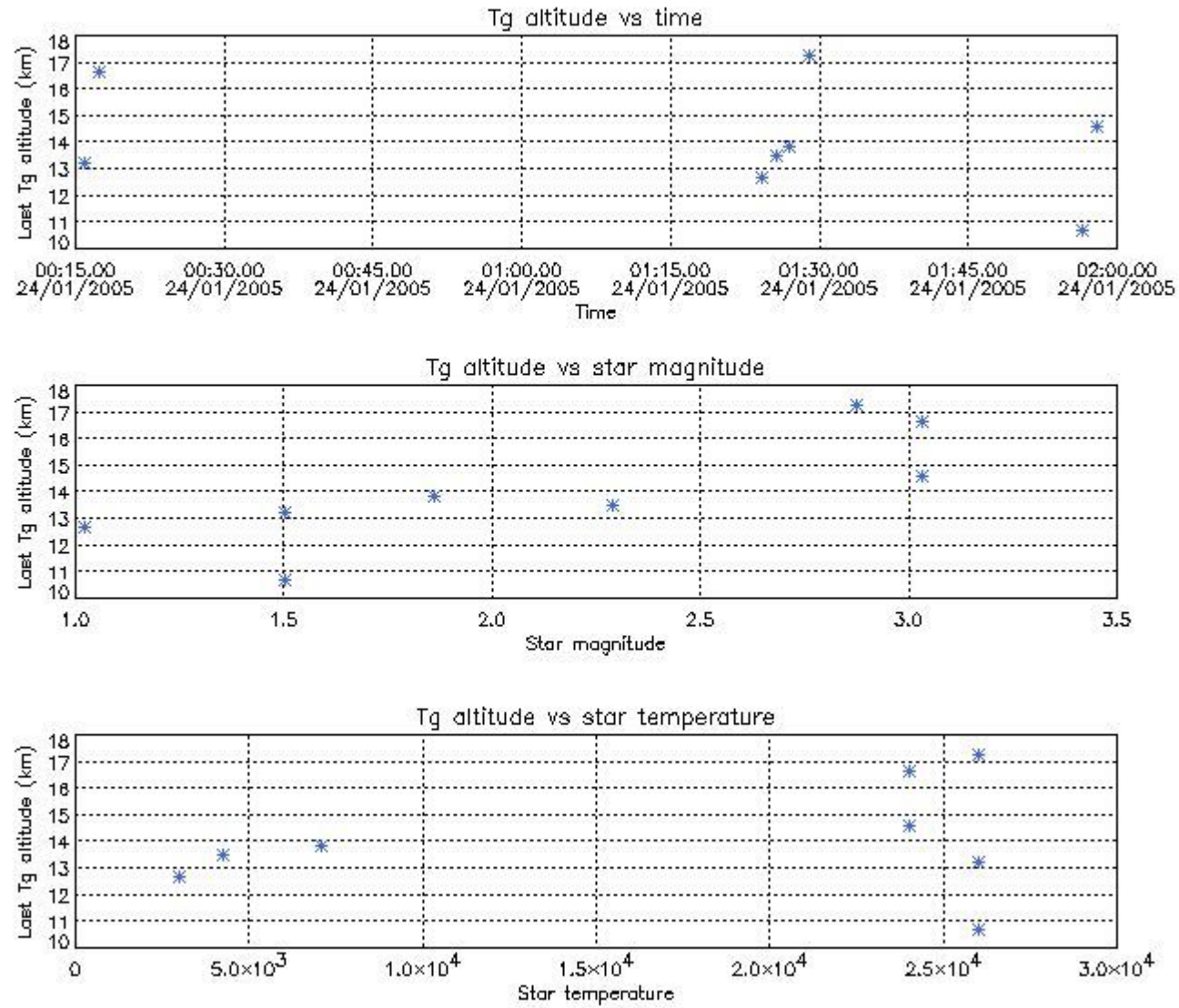
6.3 Plot for BRIGHT limb products

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

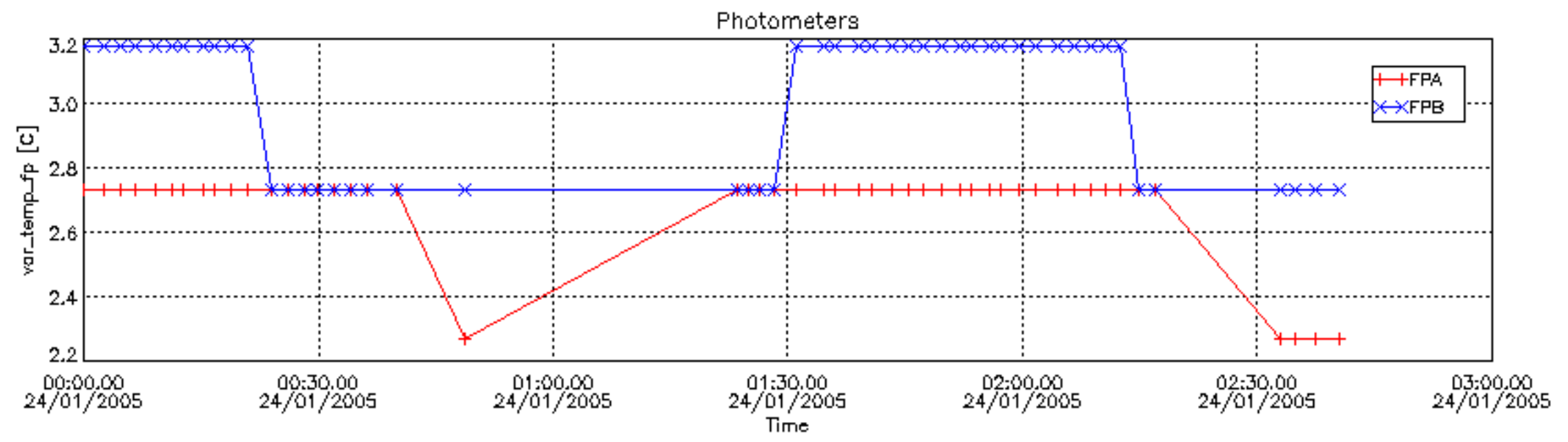
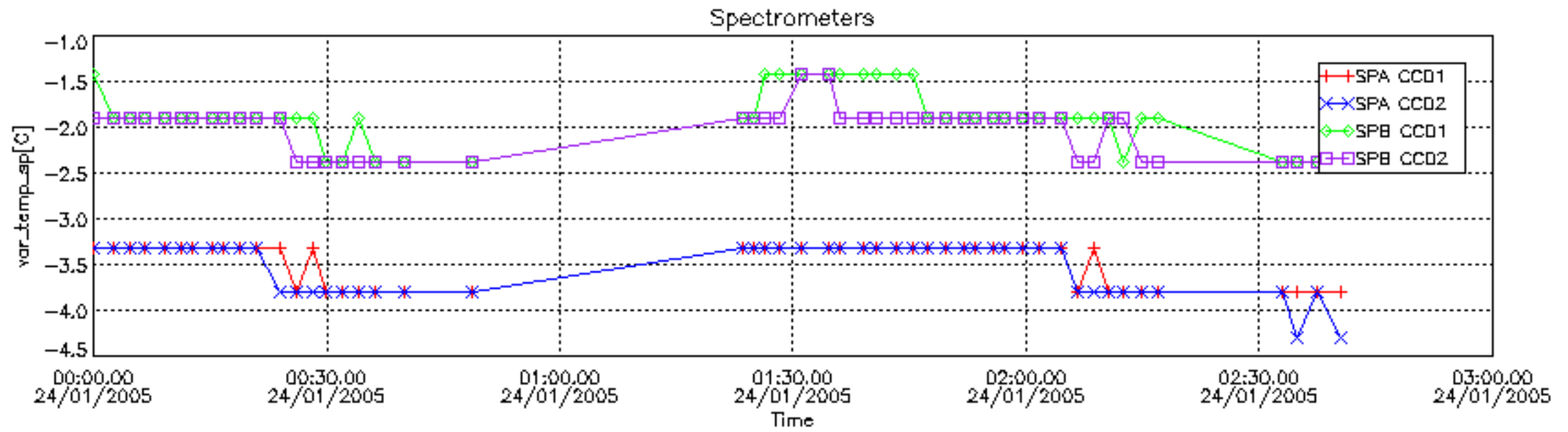
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

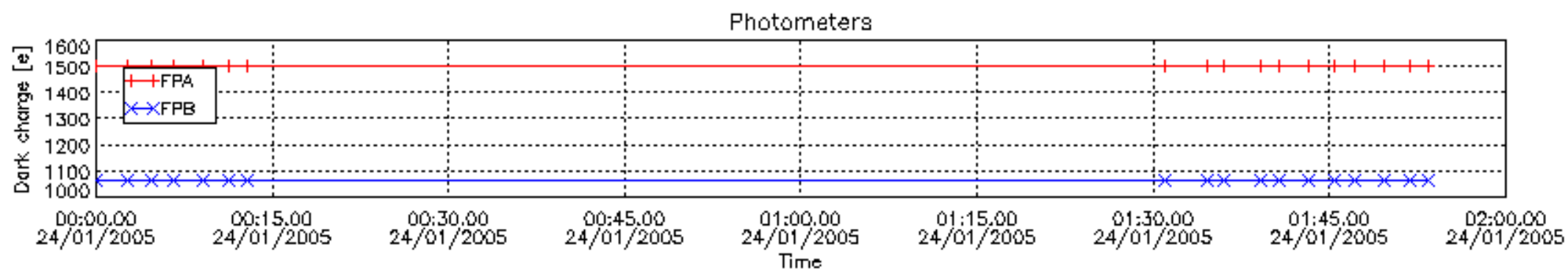
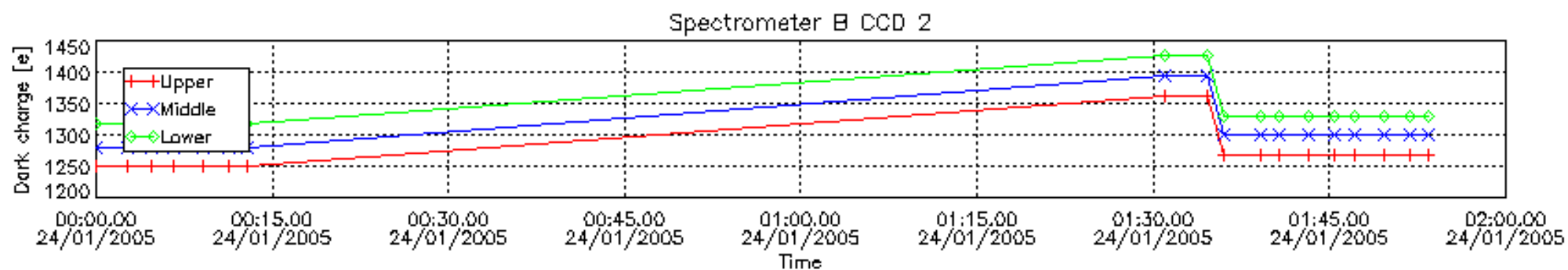
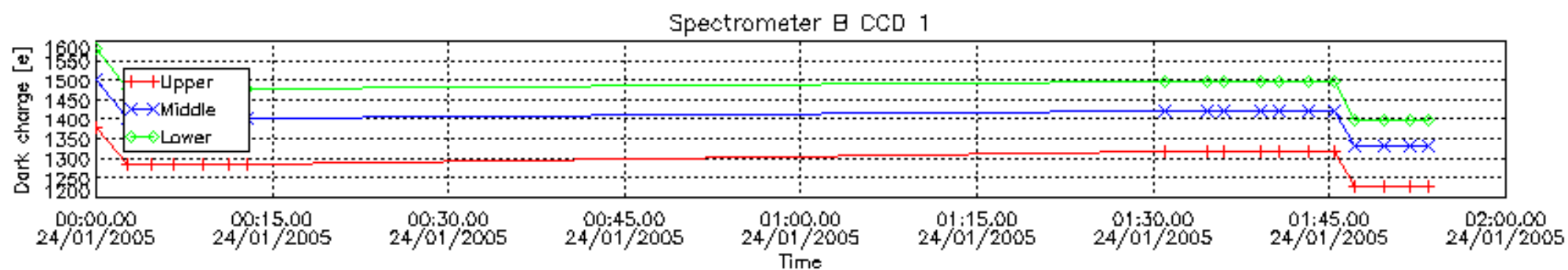
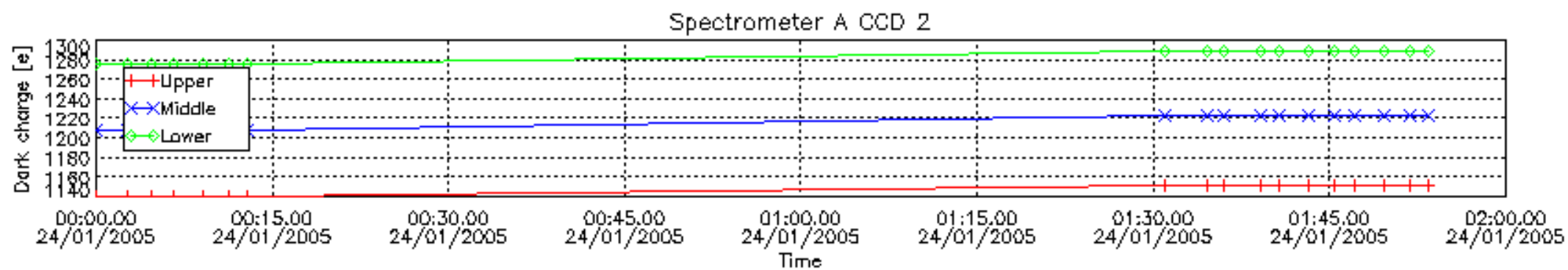
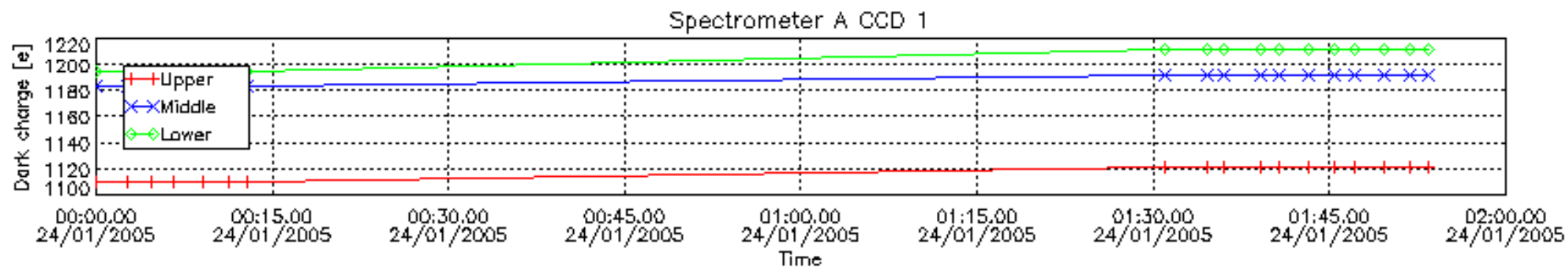
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.4	1446.5	1460.8	1447.1
St. deviation:	5.1327	6.3753	4.7913	5.9952
Maximum:	1492.0	1495.0	1501.0	1491.0
Minimum:	1452.0	1434.0	1433.0	1427.0
Number of data:	20850.	20850.	28350.	28350.

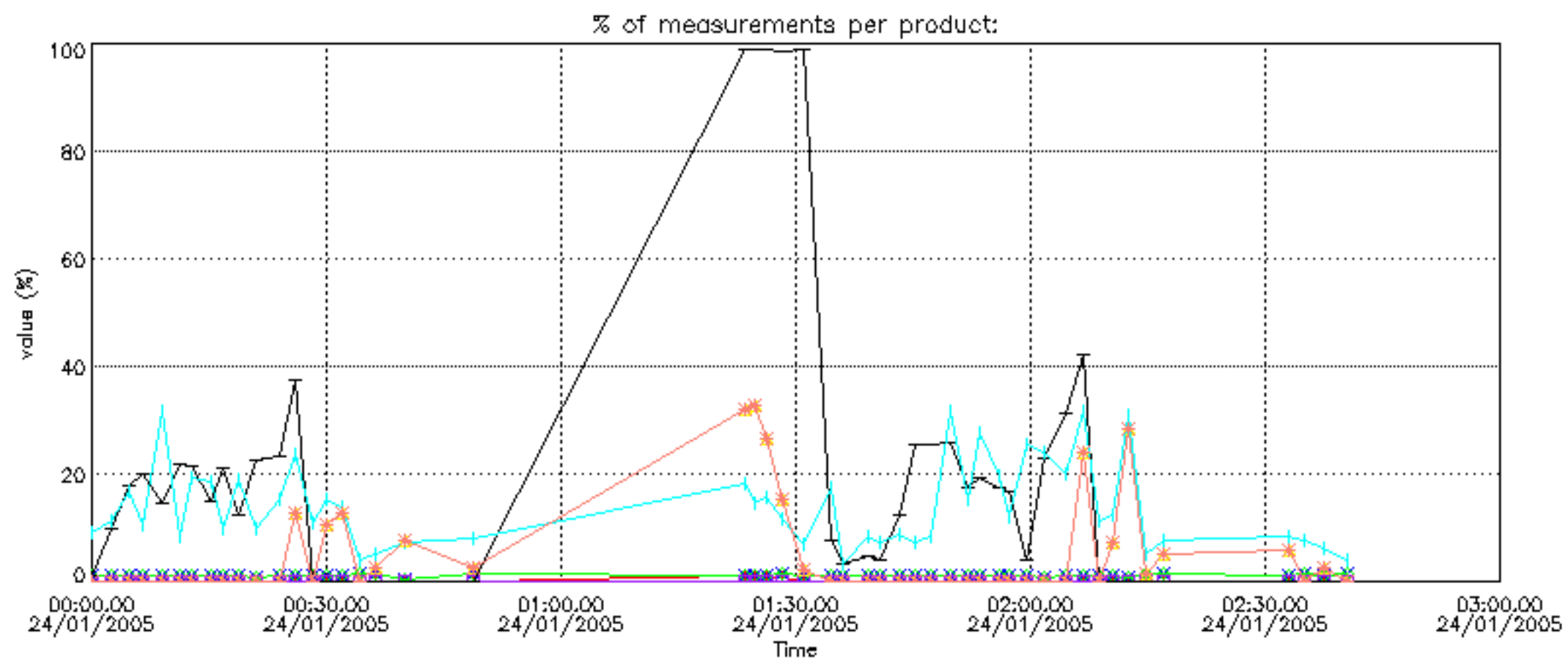
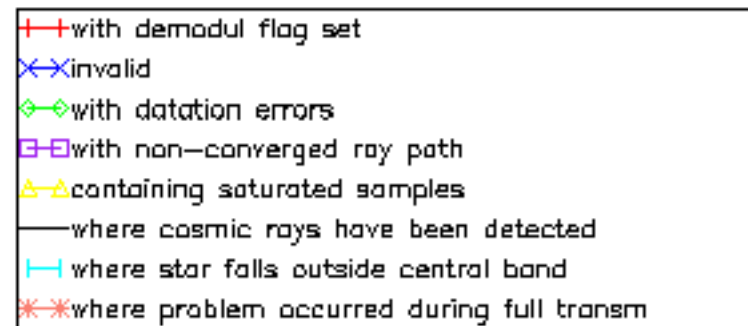
8. Auxiliary Data Files used for the production reported in section 2.2

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.

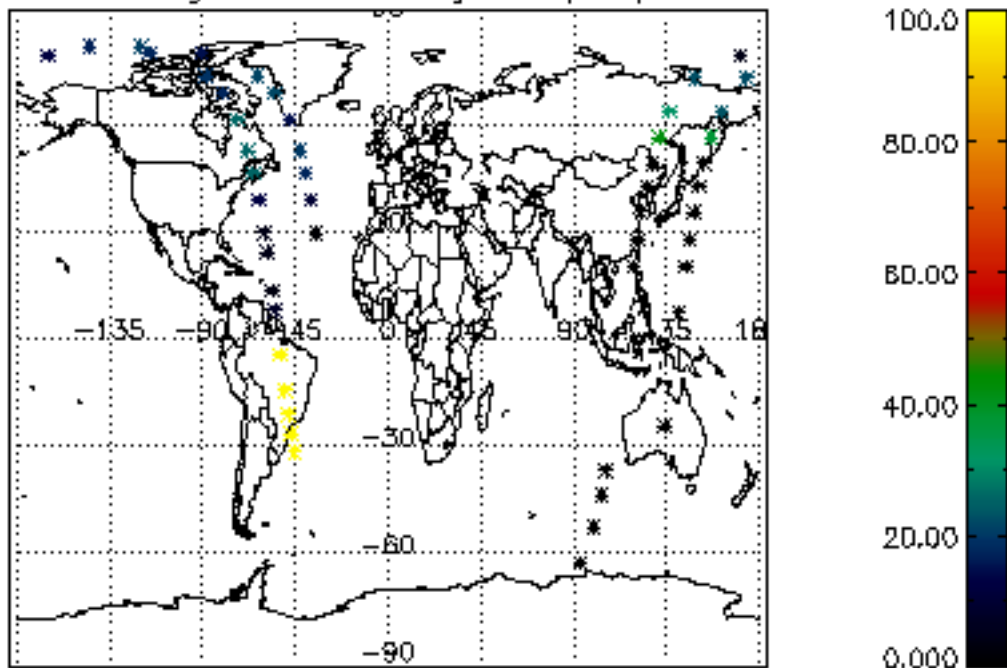
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	24-JAN-2005 00:00:00
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050117_132951_20050115_000000_20100101_000000	1	24-JAN-2005 00:00:00
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	24-JAN-2005 00:00:00
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-JAN-2005 00:00:00
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	24-JAN-2005 00:00:00
ECMWF_FILE	AUX_ECF_AXNECM20050123_060415_20050123_210000_20050124_090000	1	24-JAN-2005 00:00:00
OPTIONAL_ECMWF_FILE	NOT USED	1	24-JAN-2005 00:00:00
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050123_234343_20050123_184956_20050202_201610	1	24-JAN-2005 00:00:00



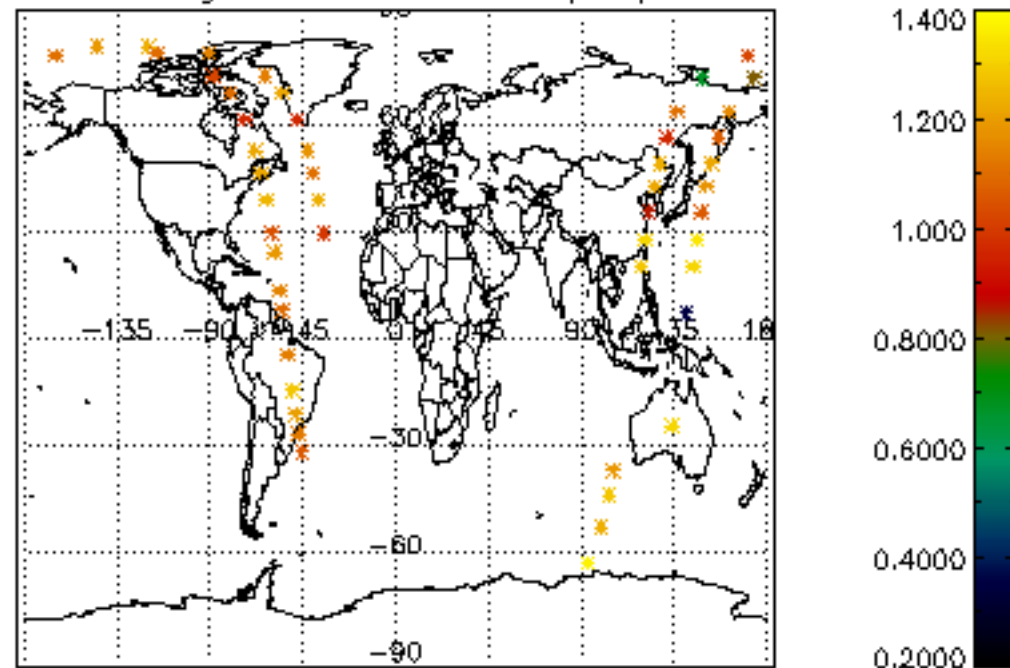




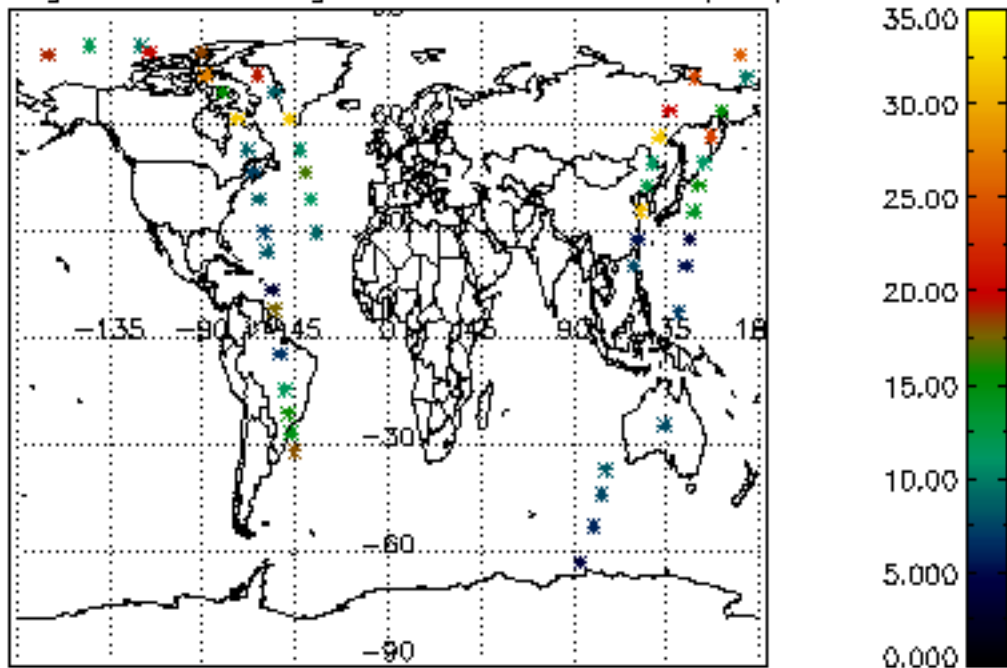
Percentage of cosmic ray hits per profile



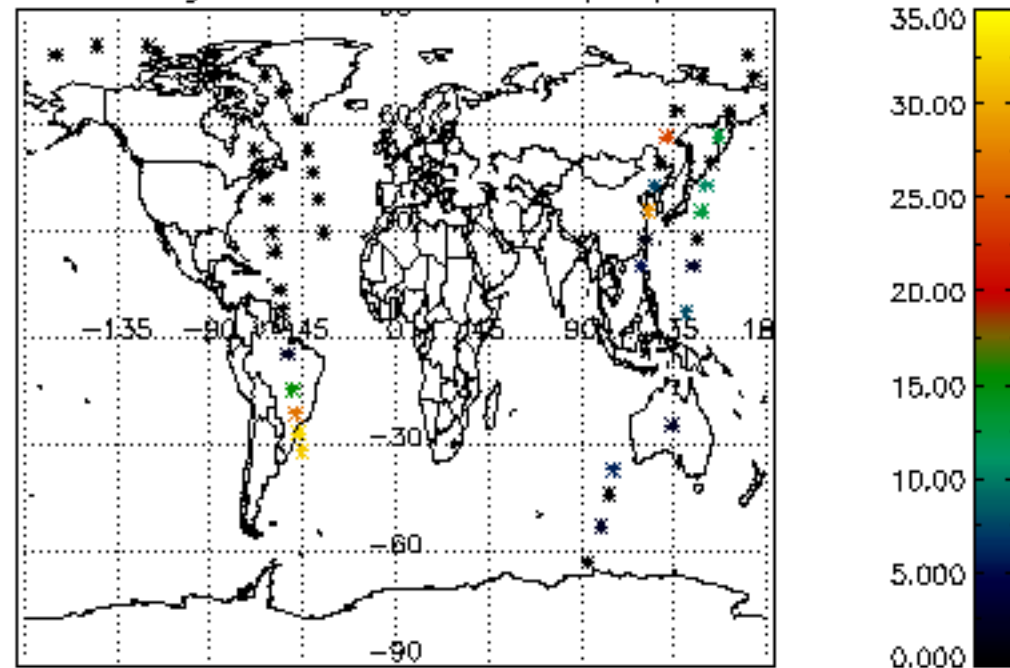
Percentage of datation errors per profile



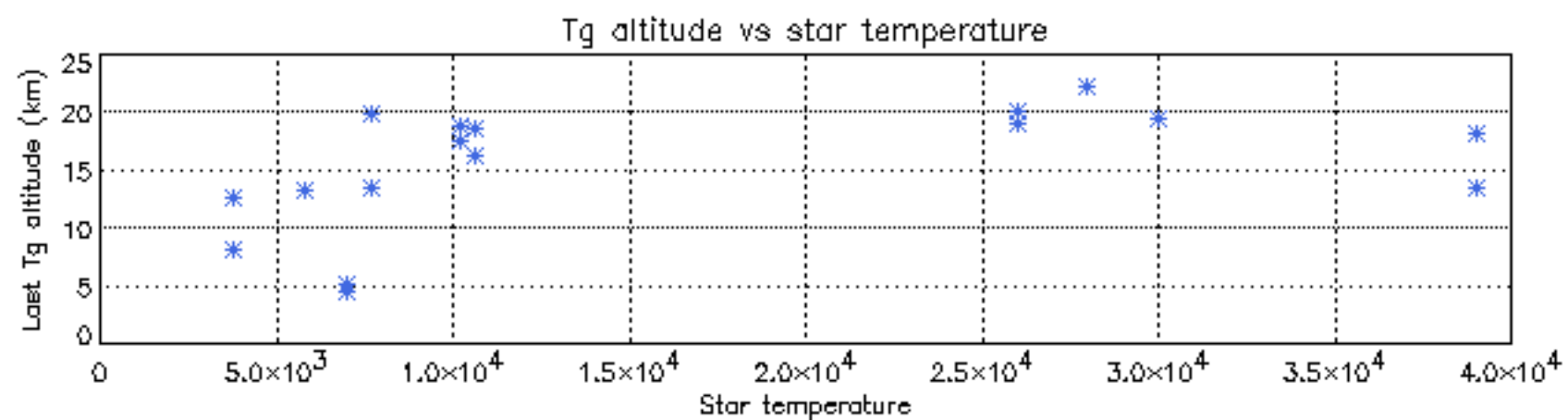
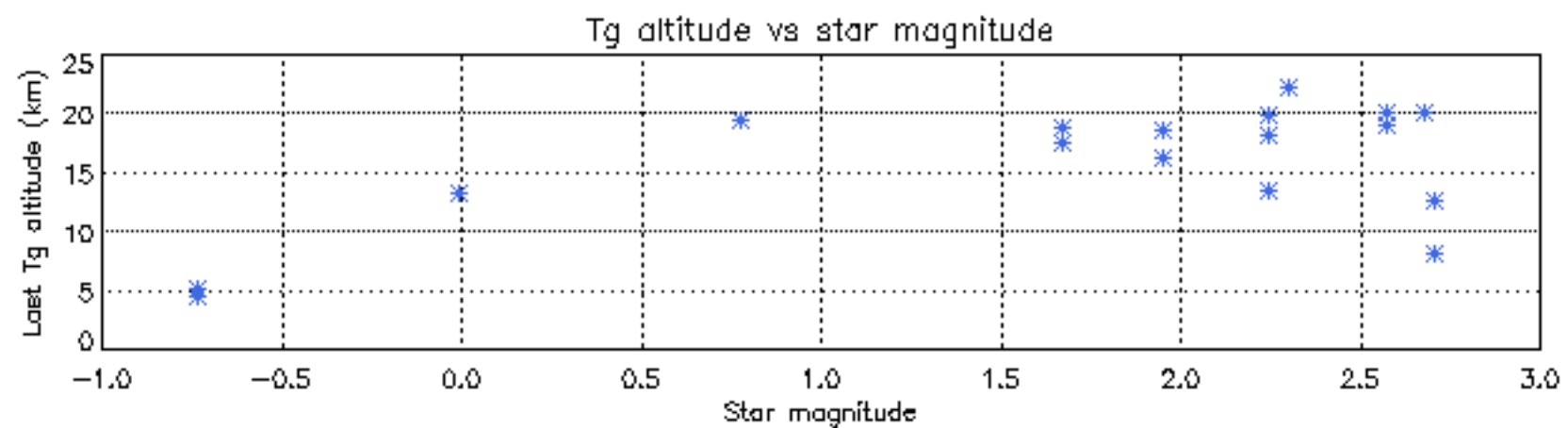
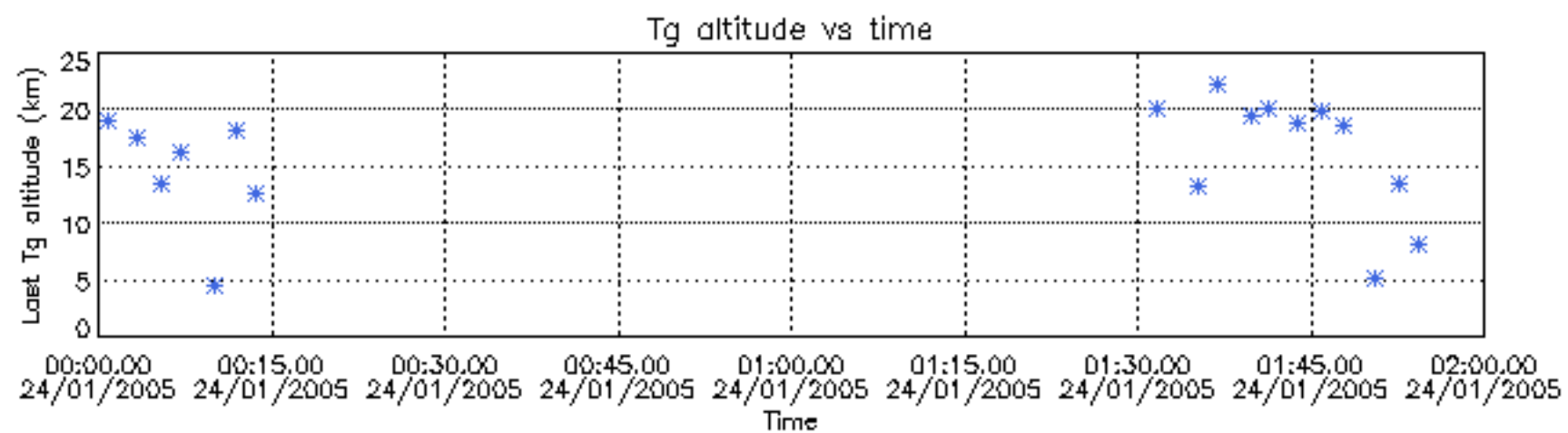
Percentage of star falling outside central band per profile



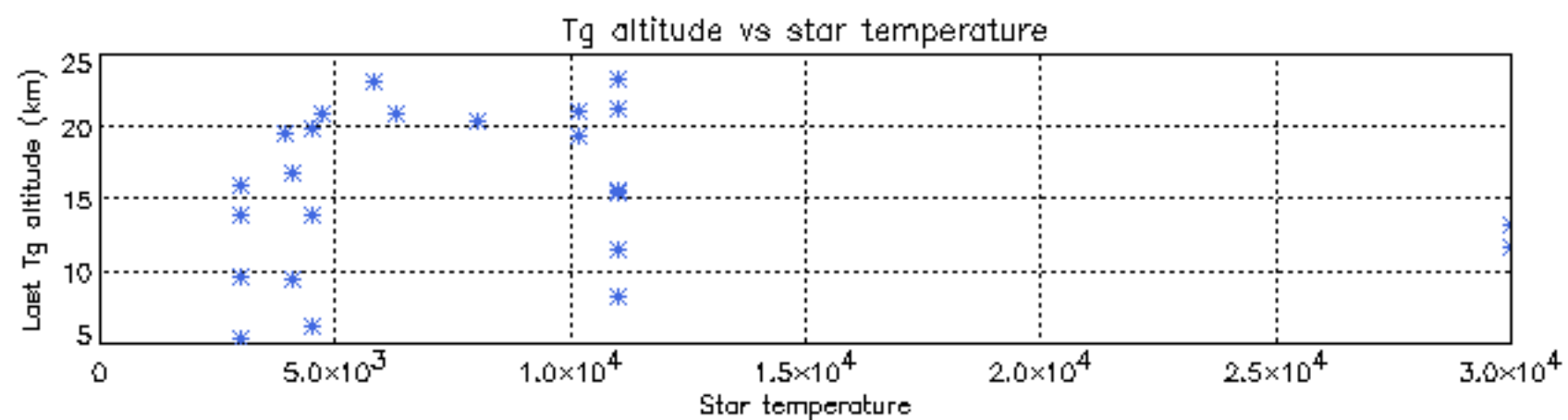
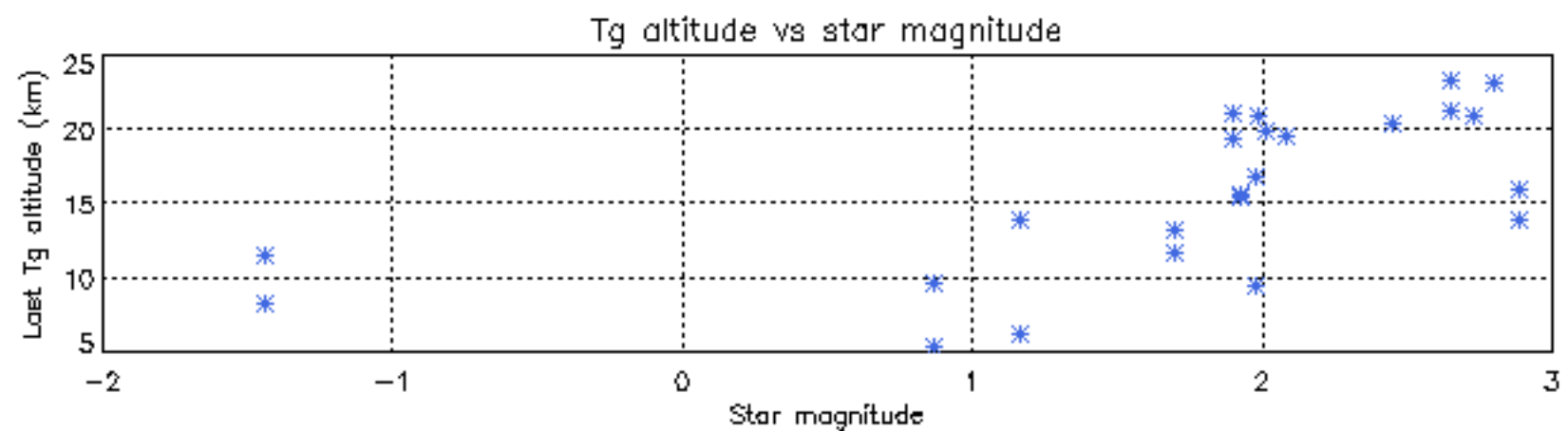
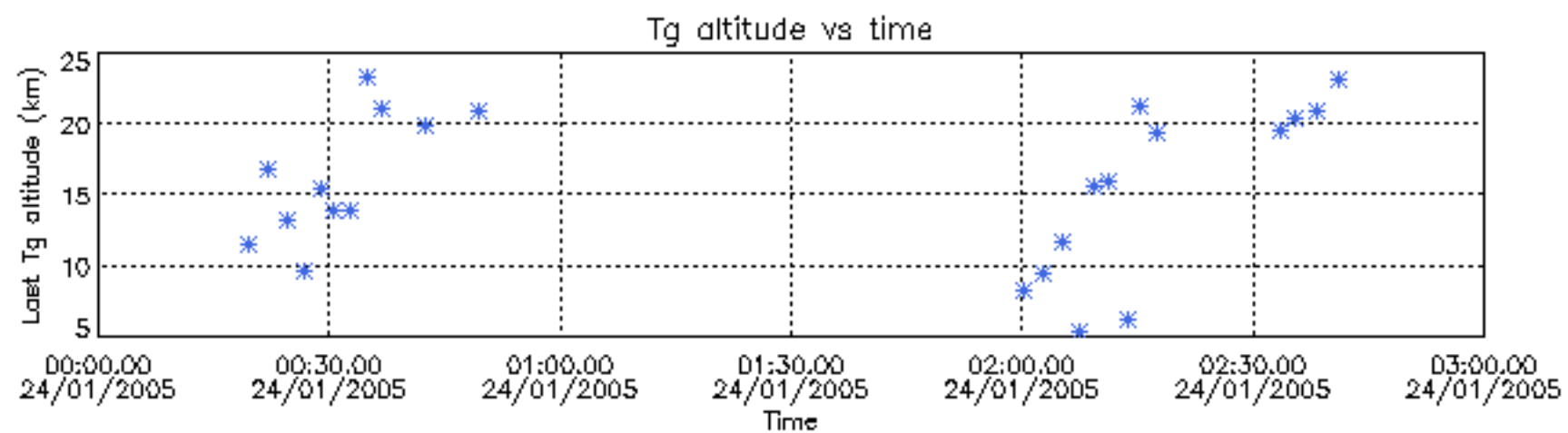
Percentage of saturation errors per profile



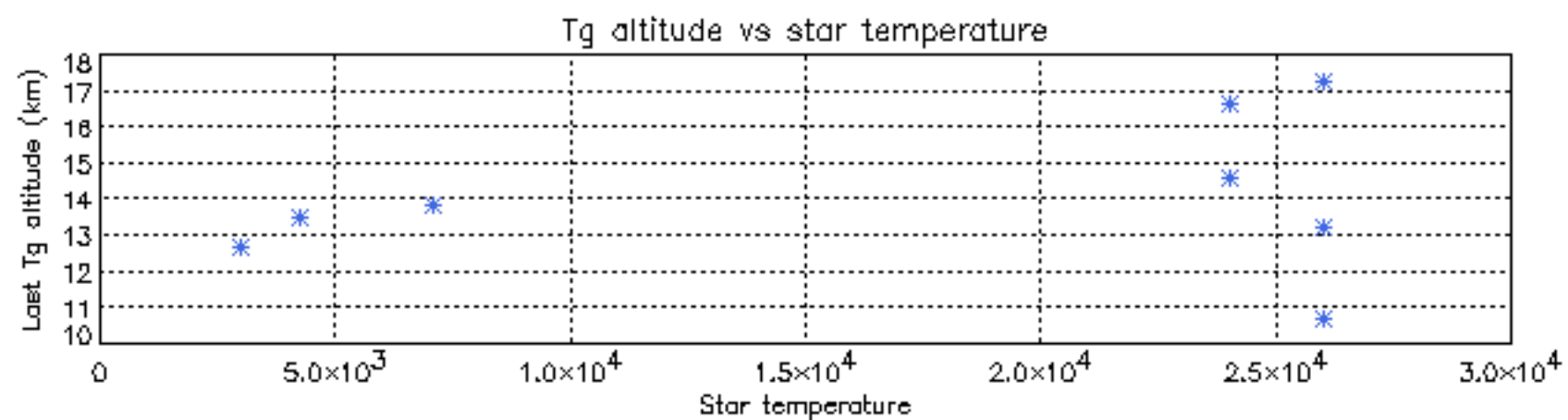
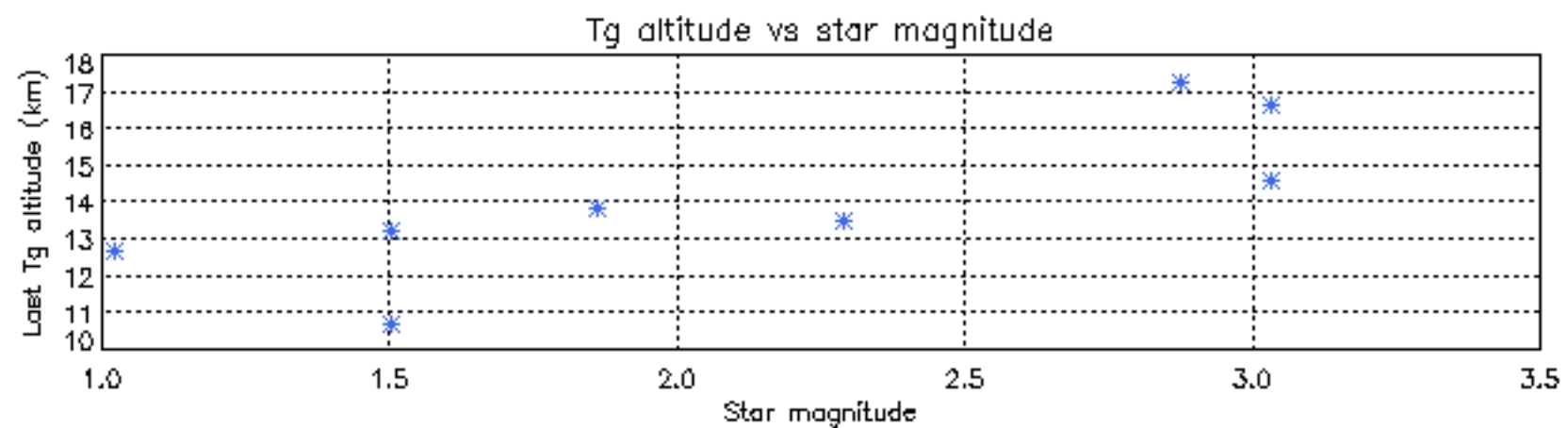
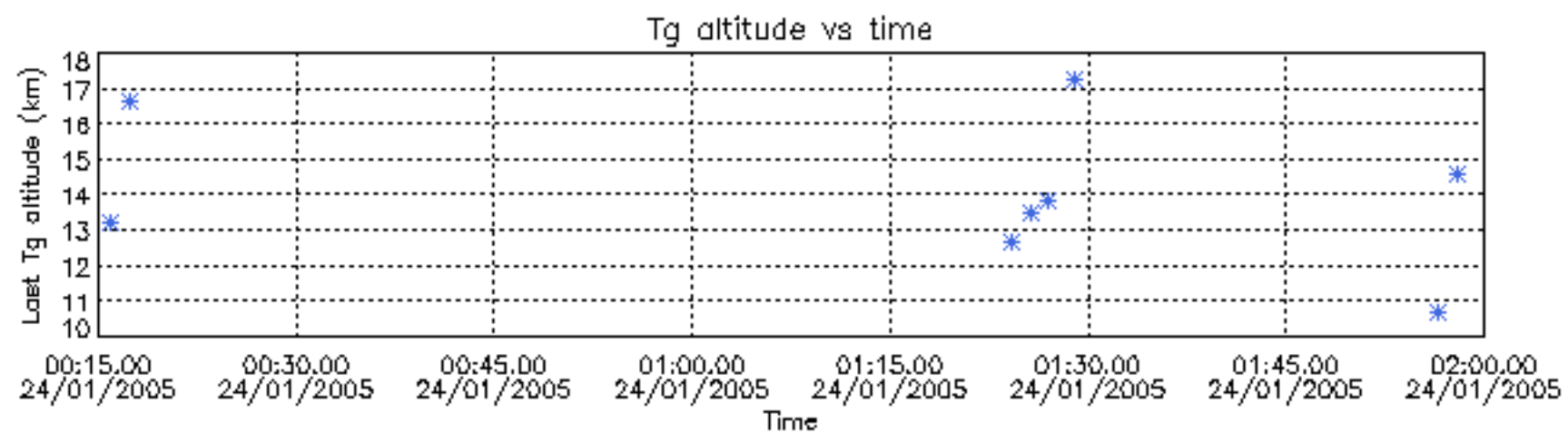
Tangent altitude at which the star is lost



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
 10; 628.2; 01-JAN-2005 00:25:09; Dark ; 51.5; 71; Iot Car ; 2.25; 7700;occ; 103; 0;14843
 11; 725.4; 01-JAN-2005 00:26:46; Dark ; 55.0; 41; Eps Car ; 1.86; 4100;occ; 110; 0;14843
 12; 846.1; 01-JAN-2005 00:28:47; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;14843
 13; 977.2; 01-JAN-2005 00:30:58; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;14843
 14; 1171.4; 01-JAN-2005 00:34:12; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14843
 15; 1339.3; 01-JAN-2005 00:37:00; Dark ; 50.5; 23; 21Eps CMa ; 1.50; 26000;occ; 101; 0;14843
 16; 1432.6; 01-JAN-2005 00:38:33; Dark ; 46.5; 179; 240mi2Cma ; 3.03; 24000;occ; 93; 0;14843
 17; 1579.6; 01-JAN-2005 00:41:00; Dark ; 55.5; 1; 9Alp Cma ;-1.44; 11000;occ; 111; 0;14843
 18; 1768.2; 01-JAN-2005 00:44:09; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;14843
 19; 1879.6; 01-JAN-2005 00:46:00; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;14843
 20; 2091.3; 01-JAN-2005 00:49:32; Dark ; 83.0; 8; 10Alp Cmi ; 0.40; 6500;occ; 166; 0;14843
 21; 2226.9; 01-JAN-2005 00:51:47; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;14843
 22; 2323.7; 01-JAN-2005 00:53:24; Bright; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;14843
 23; 2470.5; 01-JAN-2005 00:55:51; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0;14843
 24; 2562.0; 01-JAN-2005 00:57:23; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;14843
 25; 2690.9; 01-JAN-2005 00:59:32; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;14843
 26; 2799.5; 01-JAN-2005 01:01:20; Bright; 38.0; 35; 33Alp Per ; 1.79; 6250;occ; 76; 0;14843
 27; 2877.2; 01-JAN-2005 01:02:38; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;14843
 28; 3420.6; 01-JAN-2005 01:11:41; Bright; 38.5; 49; 1Alp Umi ; 1.99; 6300;occ; 77; 0;14843
 29; 3592.4; 01-JAN-2005 01:14:33; Bright; 50.0; 36; 50Alp UMa ; 1.80; 6300;occ; 100; 0;14843
 30; 3835.1; 01-JAN-2005 01:18:36; Bright; 56.5; 87; 64Gam UMa ; 2.43; 11000;occ; 113; 0;14843
 31; 3967.7; 01-JAN-2005 01:20:48; Bright; 46.5; 55; 79Zet UMa ; 2.06; 10200;occ; 93; 0;14843
 32; 4105.1; 01-JAN-2005 01:23:06; Bright; 48.5; 39; 85Eta UMa ; 1.85; 24000;occ; 97; 0;14843
 33; 4351.9; 01-JAN-2005 01:27:12; Bright; 62.0; 180; 27Gam Boo ; 3.04; 8000;occ; 124; 0;14843
 34; 4573.3; 01-JAN-2005 01:30:54; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;14843
 35; 4825.9; 01-JAN-2005 01:35:06; Bright; 56.5; 111; 8Eta Boo ; 2.68; 6000;occ; 113; 0;14843
 36; 5028.6; 01-JAN-2005 01:38:29; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;14843
 37; 5194.0; 01-JAN-2005 01:41:15; Bright; 47.0; 104; 27Bet Lib ; 2.61; 13100;occ; 94; 0;14843

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 4; -192.0; 01-JAN-2005 01:52:04; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;14843
 5; -103.3; 01-JAN-2005 01:53:33; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;14843
 6; -1.3; 01-JAN-2005 01:55:15; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;14843
 7; 107.7; 01-JAN-2005 01:57:04; Dark ; 49.0; 64; Gam Cen ; 2.20; 10600;occ; 98; 0;14844
 8; 227.5; 01-JAN-2005 01:59:04; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;14844
 9; 401.2; 01-JAN-2005 02:01:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14844
 10; 547.0; 01-JAN-2005 02:04:23; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;14844
 11; 630.6; 01-JAN-2005 02:05:47; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;14844
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 13; 847.2; 01-JAN-2005 02:09:24; Dark ; 55.0; 65; Lam Vel ; 2.20; 4400;occ; 110; 0;14844
 14; 977.4; 01-JAN-2005 02:11:34; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;14844
 15; 1170.1; 01-JAN-2005 02:14:47; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14844
 16; 1339.6; 01-JAN-2005 02:17:36; Dark ; 50.0; 23; 21Eps Cma ; 1.50; 26000;occ; 100; 0;14844
 17; 1432.3; 01-JAN-2005 02:19:09; Dark ; 45.5; 179; 240mi2Cma ; 3.03; 24000;occ; 91; 0;14844
 18; 1578.1; 01-JAN-2005 02:21:35; Dark ; 59.0; 1; 9Alp Cma ;-1.44; 11000;occ; 118; 0;14844
 19; 1767.7; 01-JAN-2005 02:24:44; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;14844
 20; 1877.4; 01-JAN-2005 02:26:34; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;14844
 21; 2090.4; 01-JAN-2005 02:30:07; Dark ; 69.5; 8; 10Alp Cmi ; 0.40; 6500;occ; 139; 0;14844
 22; 2226.3; 01-JAN-2005 02:32:23; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;14844
 23; 2321.7; 01-JAN-2005 02:33:58; Bright; 51.5; 151; 13Mu Gem ; 2.89; 3000;occ; 103; 0;14844
 24; 2470.5; 01-JAN-2005 02:36:27; Bright; 40.5; 114; 3Iot Aur ; 2.69; 4600;occ; 81; 0;14844
 25; 2563.4; 01-JAN-2005 02:38:00; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;14844
 26; 2690.9; 01-JAN-2005 02:40:07; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;14844
 27; 2800.2; 01-JAN-2005 02:41:57; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;14844
 28; 2877.5; 01-JAN-2005 02:43:14; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0;14844
 29; 3418.8; 01-JAN-2005 02:52:15; Bright; 36.5; 49; 1Alp Umi ; 1.99; 6300;occ; 73; 0;14844

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1;-2444.4; 01-JAN-2005 02:55:08; Bright; 50.0; 36; 50Alp UMA ; 1.80; 6300;occ; 100; 0;14844
 2;-2201.7; 01-JAN-2005 02:59:11; Bright; 56.0; 87; 64Gam UMA ; 2.43; 11000;occ; 112; 0;14844
 3;-2069.2; 01-JAN-2005 03:01:23; Bright; 48.0; 55; 79Zet UMA ; 2.06; 10200;occ; 96; 0;14844
 4;-1931.2; 01-JAN-2005 03:03:41; Bright; 47.5; 39; 85Eta UMA ; 1.85; 24000;occ; 95; 0;14844
 5;-1684.3; 01-JAN-2005 03:07:48; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;14844
 6;-1462.8; 01-JAN-2005 03:11:30; Bright; 46.5; 83; ; 2.38; 11000;occ; 93; 0;14844
 7;-1209.1; 01-JAN-2005 03:15:43; Bright; 54.5; 111; 8Eta Boo ; 2.68; 6000;occ; 109; 0;14844
 8;-1007.7; 01-JAN-2005 03:19:05; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;14844
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 10; -681.9; 01-JAN-2005 03:24:30; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;14844
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 13; -191.3; 01-JAN-2005 03:32:41; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;14844
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 17; 401.5; 01-JAN-2005 03:42:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14845
 18; 547.9; 01-JAN-2005 03:45:00; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;14845
 19; 631.8; 01-JAN-2005 03:46:24; Dark ; 50.0; 71; Iot Car ; 2.25; 7700;occ; 100; 0;14845
 20; 726.8; 01-JAN-2005 03:47:59; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;14845
 21; 847.6; 01-JAN-2005 03:50:00; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;14845
 22; 978.8; 01-JAN-2005 03:52:11; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;14845
 23; 1173.0; 01-JAN-2005 03:55:25; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14845
 24; 1340.7; 01-JAN-2005 03:58:13; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;14845
 25; 1432.4; 01-JAN-2005 03:59:45; Dark ; 48.0; 179; 240mi2CMA ; 3.03; 24000;occ; 96; 0;14845
 26; 1580.7; 01-JAN-2005 04:02:13; Dark ; 53.5; 1; 9Alp CMA ;-1.44; 11000;occ; 107; 0;14845
 27; 1768.6; 01-JAN-2005 04:05:21; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;14845
 28; 1879.9; 01-JAN-2005 04:07:12; Dark ; 43.5; 30; 46Eps Ori ; 1.69; 30000;occ; 87; 0;14845
 29; 2089.8; 01-JAN-2005 04:10:42; Dark ; 71.0; 8; 10Alp CMi ; 0.40; 6500;occ; 142; 0;14845
 30; 2225.7; 01-JAN-2005 04:12:58; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;14845
 31; 2323.8; 01-JAN-2005 04:14:36; Bright; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;14845
 32; 2470.6; 01-JAN-2005 04:17:03; Bright; 41.0; 114; 3Iot Aur ; 2.69; 4600;occ; 82; 0;14845
 33; 2563.8; 01-JAN-2005 04:18:36; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;14845
 34; 2690.8; 01-JAN-2005 04:20:43; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;14845
 35; 2800.2; 01-JAN-2005 04:22:33; Bright; 37.5; 35; 33Alp Per ; 1.79; 6250;occ; 75; 0;14845
 36; 2877.9; 01-JAN-2005 04:23:50; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;14845
 37; 3420.9; 01-JAN-2005 04:32:53; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;14845
 38; 3590.6; 01-JAN-2005 04:35:43; Bright; 50.5; 36; 50Alp UMa ; 1.80; 6300;occ; 101; 0;14845

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1;-2400.9; 01-JAN-2005 04:36:27; Bright; 51.0; 36; 50Alp UMA ; 1.80; 6300;occ; 102; 89;14845
 2;-2202.3; 01-JAN-2005 04:39:46; Bright; 56.0; 87; 64Gam UMA ; 2.43; 11000;occ; 112; 0;14845
 3;-2068.9; 01-JAN-2005 04:41:59; Bright; 47.5; 55; 79Zet UMA ; 2.06; 10200;occ; 95; 0;14845
 4;-1931.2; 01-JAN-2005 04:44:17; Bright; 48.0; 39; 85Eta UMA ; 1.85; 24000;occ; 96; 0;14845
 5;-1684.3; 01-JAN-2005 04:48:24; Bright; 42.5; 180; 27Gam Boo ; 3.04; 8000;occ; 85; 0;14845
 6;-1463.2; 01-JAN-2005 04:52:05; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;14845
 7;-1209.2; 01-JAN-2005 04:56:19; Bright; 56.5; 111; 8Eta Boo ; 2.68; 6000;occ; 113; 0;14845
 8;-1009.1; 01-JAN-2005 04:59:39; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;14845
 9; -840.6; 01-JAN-2005 05:02:28; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;14845
 10; -680.8; 01-JAN-2005 05:05:08; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;14845
 11; -470.2; 01-JAN-2005 05:08:38; Dark ; 83.5; 15; 67Alp Vir ; 0.98; 28000;occ; 167; 0;14845
 12; -280.0; 01-JAN-2005 05:11:48; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;14845
 13; -191.1; 01-JAN-2005 05:13:17; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;14845
 14; -100.9; 01-JAN-2005 05:14:47; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;14845
 15; -0.4; 01-JAN-2005 05:16:28; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;14845
 16; 231.6; 01-JAN-2005 05:20:20; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;14846
 17; 401.7; 01-JAN-2005 05:23:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14846
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 23; 1173.6; 01-JAN-2005 05:36:02; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;14846
 24; 1341.2; 01-JAN-2005 05:38:50; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;14846
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 26; 1581.1; 01-JAN-2005 05:42:49; Dark ; 59.0; 1; 9Alp CMA ;-1.44; 11000;occ; 118; 0;14846
 27; 1769.0; 01-JAN-2005 05:45:57; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;14846
 28; 1880.6; 01-JAN-2005 05:47:49; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;14846

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29; 2088.8; 01-JAN-2005 05:51:17; Dark ; 74.5; 8; 10Alp CMi ; 0.40; 6500;occ; 149; 0;14846
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31; 2323.8; 01-JAN-2005 05:55:12; Bright; 47.5; 151; 13Mu Gem ; 2.89; 3000;occ; 95; 0;14846
32; 2471.3; 01-JAN-2005 05:57:40; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;14846
33; 2564.2; 01-JAN-2005 05:59:13; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;14846
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6; 362.0; 12-JAN-2005 01:15:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;15001
7; 511.1; 12-JAN-2005 01:17:49; Dark ; 41.0; 124; The Car ; 2.76; 30000;occ; 82; 0;15001
8; 600.9; 12-JAN-2005 01:19:19; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;15001
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
24; 1601.5; 12-JAN-2005 08:18:23; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;15005
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1;-4240.2; 12-JAN-2005 08:21:37; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;15005
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
8;-3363.6; 12-JAN-2005 08:36:14; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;15005
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
14;-1782.7; 12-JAN-2005 09:02:35; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;15005
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17;-1303.8; 12-JAN-2005 09:10:34; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;15005
18;-1083.7; 12-JAN-2005 09:14:14; Dark ; 85.5; 111; 8Eta Boo ; 2.68; 6000;occ; 171; 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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30; 791.6; 12-JAN-2005 09:45:29; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;15006
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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
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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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