

GOMOS Daily Report 28-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	30DEC2004 05:03:26

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (28DEC2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (29DEC2004 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

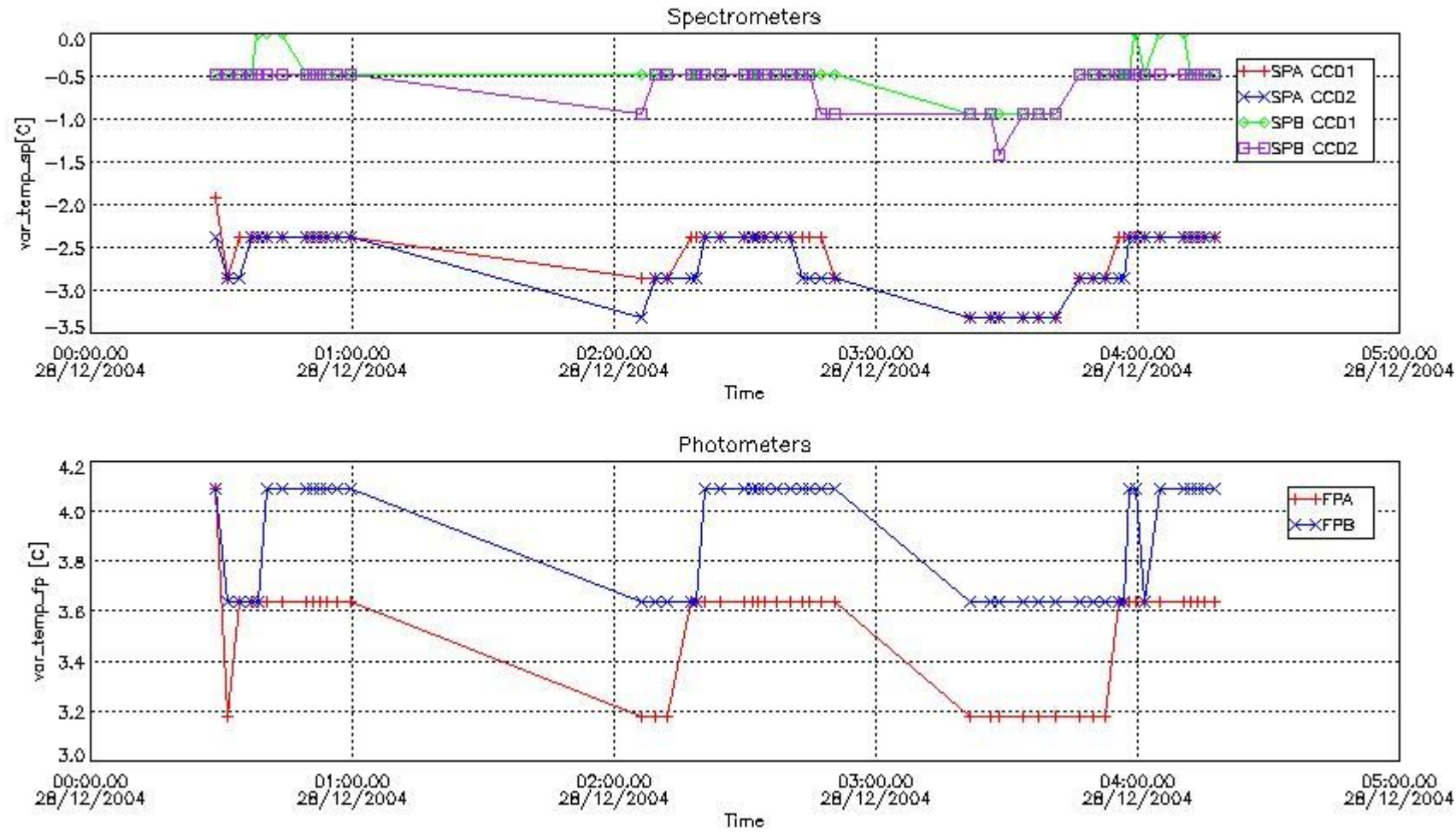
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20041228_002839_000000452033_00202_14785_0000.N1	28-DEC-2004 00:28:39	Twilight	45.000	122	9Alp2Lib	2.7470	9700.0	90	14785	Yes
2	GOM_TRA_1PNPDE20041228_003126_000000672033_00202_14785_0001.N1	28-DEC-2004 00:31:26	Twilight	67.000	15	67Alp Vir	0.97600	28000.	134	14785	No
3	GOM_TRA_1PNPDE20041228_003417_000000412033_00202_14785_0002.N1	28-DEC-2004 00:34:17	Twilight	40.500	131	Gam Lup	2.8000	26000.	81	14785	No
4	GOM_TRA_1PNPDE20041228_003656_000000412033_00202_14785_0003.N1	28-DEC-2004 00:36:56	Twilight	40.500	78	Alp Lup	2.3040	28000.	81	14785	No
5	GOM_TRA_1PNPDE20041228_003816_000000422033_00202_14785_0004.N1	28-DEC-2004 00:38:16	Dark	42.000	95	Zet Cen	2.5450	26000.	84	14785	No
6	GOM_TRA_1PNPDE20041228_004015_000000452033_00202_14785_0005.N1	28-DEC-2004 00:40:15	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	14785	No
7	GOM_TRA_1PNPDE20041228_004353_000000472033_00203_14786_0006.N1	28-DEC-2004 00:43:53	Dark	46.500	12	Alp1Cru	0.77500	30000.	93	14786	No
8	GOM_TRA_1PNPDE20041228_004919_000000412033_00203_14786_0007.N1	28-DEC-2004 00:49:19	Dark	41.000	29	Bet Car	1.6720	10200.	82	14786	No
9	GOM_TRA_1PNPDE20041228_005100_000000462033_00203_14786_0008.N1	28-DEC-2004 00:51:00	Dark	45.500	91	Kap Vel	2.4900	26000.	91	14786	No
10	GOM_TRA_1PNPDE20041228_005226_000000482033_00203_14786_0009.N1	28-DEC-2004 00:52:26	Dark	47.500	46	Del Vel	1.9540	10600.	95	14786	No
11	GOM_TRA_1PNPDE20041228_005355_000000602033_00203_14786_0010.N1	28-DEC-2004 00:53:55	Dark	60.000	65	Lam Vel	2.2040	4400.0	120	14786	No
12	GOM_TRA_1PNPDE20041228_005635_000000482033_00203_14786_0011.N1	28-DEC-2004 00:56:35	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	14786	No
13	GOM_TRA_1PNPDE20041228_005944_000000472033_00203_14786_0012.N1	28-DEC-2004 00:59:44	Dark	47.000	117	Pi Pup	2.7060	3800.0	94	14786	No
14	GOM_TRA_1PNPDE20041228_020607_000000842033_00203_14786_0000.N1	28-DEC-2004 02:06:07	Twilight	84.000	138	47Eps Vir	2.8280	4700.0	168	14786	No
15	GOM_TRA_1PNPDE20041228_020916_000000442033_00203_14786_0001.N1	28-DEC-2004 02:09:16	Twilight	44.000	122	9Alp2Lib	2.7470	9700.0	88	14786	No
16	GOM_TRA_1PNPDE20041228_021203_000000732033_00203_14786_0002.N1	28-DEC-2004 02:12:03	Twilight	73.000	15	67Alp Vir	0.97600	28000.	146	14786	No
17	GOM_TRA_1PNPDE20041228_021732_000000422033_00203_14786_0003.N1	28-DEC-2004 02:17:32	Twilight	42.000	78	Alp Lup	2.3040	28000.	84	14786	No
18	GOM_TRA_1PNPDE20041228_021852_000000422033_00203_14786_0004.N1	28-DEC-2004 02:18:52	Dark	41.500	95	Zet Cen	2.5450	26000.	83	14786	No
19	GOM_TRA_1PNPDE20041228_022051_000000522033_00203_14786_0005.N1	28-DEC-2004 02:20:51	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	14786	No
20	GOM_TRA_1PNPDE20041228_022430_000000452033_00204_14787_0006.N1	28-DEC-2004 02:24:30	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	14787	No
21	GOM_TRA_1PNPDE20041228_022955_000000432033_00204_14787_0007.N1	28-DEC-2004 02:29:55	Dark	42.500	29	Bet Car	1.6720	10200.	85	14787	No
22	GOM_TRA_1PNPDE20041228_023134_000000462033_00204_14787_0008.N1	28-DEC-2004 02:31:34	Dark	46.000	91	Kap Vel	2.4900	26000.	92	14787	No
23	GOM_TRA_1PNPDE20041228_023302_000000462033_00204_14787_0009.N1	28-DEC-2004 02:33:02	Dark	45.500	46	Del Vel	1.9540	10600.	91	14787	No
24	GOM_TRA_1PNPDE20041228_023432_000000582033_00204_14787_0010.N1	28-DEC-2004 02:34:32	Dark	57.500	65	Lam Vel	2.2040	4400.0	115	14787	No
25	GOM_TRA_1PNPDE20041228_023712_000000412033_00204_14787_0011.N1	28-DEC-2004 02:37:12	Dark	41.000	2	Alp Car	-0.73600	7000.0	82	14787	No
26	GOM_TRA_1PNPDE20041228_024020_000000532033_00204_14787_0012.N1	28-DEC-2004 02:40:20	Dark	52.500	117	Pi Pup	2.7060	3800.0	105	14787	No
27	GOM_TRA_1PNPDE20041228_024314_000000522033_00204_14787_0013.N1	28-DEC-2004 02:43:14	Dark	51.500	23	21Eps CMa	1.5020	26000.	103	14787	No
28	GOM_TRA_1PNPDE20041228_024449_000000502033_00204_14787_0014.N1	28-DEC-2004 02:44:49	Dark	50.000	179	24Omi2CMa	3.0320	24000.	100	14787	No
29	GOM_TRA_1PNPDE20041228_024722_000000622033_00204_14787_0015.N1	28-DEC-2004 02:47:22	Twilight	62.000	1	9Alp CMa	-1.4400	11000.	124	14787	No
30	GOM_TRA_1PNPDE20041228_025030_000000522033_00204_14787_0016.N1	28-DEC-2004 02:50:30	Bright	52.000	7	19Bet Ori	0.10000	14000.	104	14787	No
31	GOM_TRA_1PNPDE20041228_032137_000000502033_00204_14787_0000.N1	28-DEC-2004 03:21:37	Bright	50.000	36	50Alp UMa	1.8000	6300.0	100	14787	No
32	GOM_TRA_1PNPDE20041228_032625_000000382033_00204_14787_0001.N1	28-DEC-2004 03:26:25	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	14787	No
33	GOM_TRA_1PNPDE20041228_032825_000000392033_00204_14787_0002.N1	28-DEC-2004 03:28:25	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	14787	No
34	GOM_TRA_1PNPDE20041228_033338_000000422033_00204_14787_0003.N1	28-DEC-2004 03:33:38	Bright	41.500	180	27Gam Boo	3.0400	8000.0	83	14787	No
35	GOM_TRA_1PNPDE20041228_033711_000000592033_00204_14787_0004.N1	28-DEC-2004 03:37:11	Bright	59.000	83		2.3780	11000.	118	14787	No
36	GOM_TRA_1PNPDE20041228_034106_000000522033_00204_14787_0005.N1	28-DEC-2004 03:41:06	Bright	51.500	111	8Eta Boo	2.6800	6000.0	103	14787	No
37	GOM_TRA_1PNPDE20041228_034644_000000862033_00204_14787_0006.N1	28-DEC-2004 03:46:44	Twilight	85.500	138	47Eps Vir	2.8280	4700.0	171	14787	No
38	GOM_TRA_1PNPDE20041228_034952_000000442033_00204_14787_0007.N1	28-DEC-2004 03:49:52	Twilight	44.000	122	9Alp2Lib	2.7470	9700.0	88	14787	No
39	GOM_TRA_1PNPDE20041228_035240_000000732033_00204_14787_0008.N1	28-DEC-2004 03:52:40	Twilight	72.500	15	67Alp Vir	0.97600	28000.	145	14787	No
40	GOM_TRA_1PNPDE20041228_035529_000000402033_00204_14787_0009.N1	28-DEC-2004 03:55:29	Twilight	39.500	131	Gam Lup	2.8000	26000.	79	14787	No
41	GOM_TRA_1PNPDE20041228_035642_000000412033_00204_14787_0010.N1	28-DEC-2004 03:56:42	Twilight	40.500	109	Bet Lup	2.6770	26000.	81	14787	No
42	GOM_TRA_1PNPDE20041228_035809_000000412033_00204_14787_0011.N1	28-DEC-2004 03:58:09	Twilight	40.500	78	Alp Lup	2.3040	28000.	81	14787	No
43	GOM_TRA_1PNPDE20041228_035929_000000412033_00204_14787_0012.N1	28-DEC-2004 03:59:29	Dark	41.000	95	Zet Cen	2.5450	26000.	82	14787	No
44	GOM_TRA_1PNPDE20041228_040126_000000502033_00204_14787_0013.N1	28-DEC-2004 04:01:26	Dark	49.500	4	Alp1Cen	-0.010000	5800.0	99	14787	No
45	GOM_TRA_1PNPDE20041228_040507_000000412033_00205_14788_0014.N1	28-DEC-2004 04:05:07	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	14788	No
46	GOM_TRA_1PNPDE20041228_041031_000000412033_00205_14788_0015.N1	28-DEC-2004 04:10:31	Dark	40.500	29	Bet Car	1.6720	10200.	81	14788	No

47	GOM_TRA_1PNPDE20041228_041214_000000432033_00205_14788_0016.N1	28-DEC-2004 04:12:14	Dark	42.500	91	Kap Vel	2.4900	26000.	85	14788	No
48	GOM_TRA_1PNPDE20041228_041340_000000452033_00205_14788_0017.N1	28-DEC-2004 04:13:40	Dark	44.500	46	Del Vel	1.9540	10600.	89	14788	No
49	GOM_TRA_1PNPDE20041228_041509_000000662033_00205_14788_0018.N1	28-DEC-2004 04:15:09	Dark	66.000	65	Lam Vel	2.2040	4400.0	132	14788	No
50	GOM_TRA_1PNPDE20041228_041745_000000482033_00205_14788_0019.N1	28-DEC-2004 04:17:45	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	14788	No

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



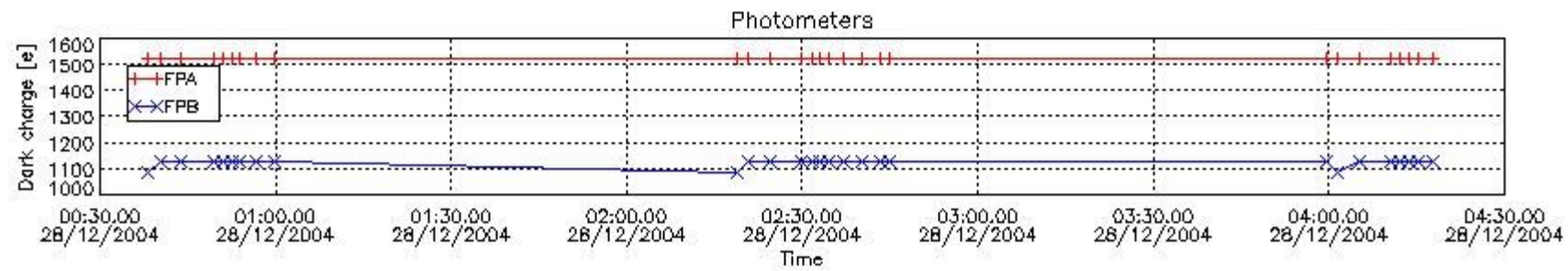
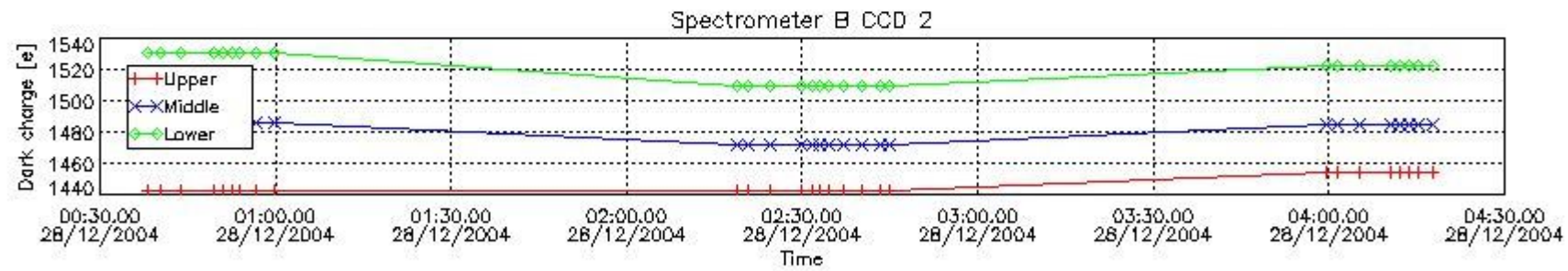
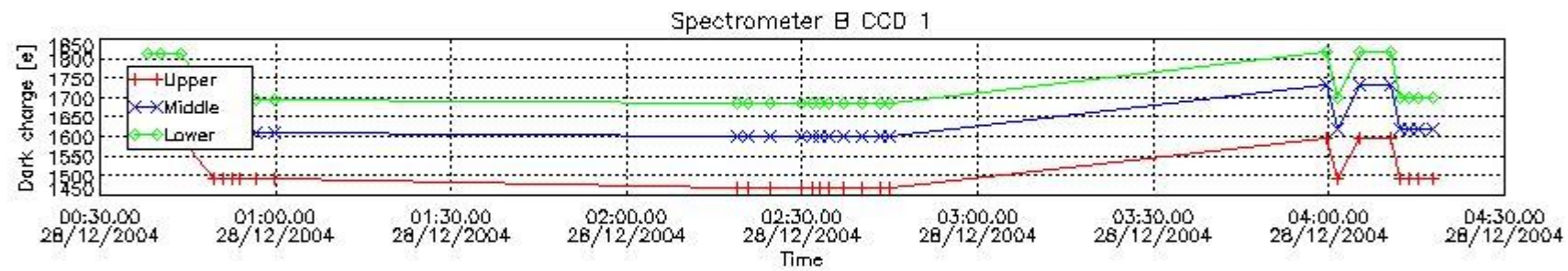
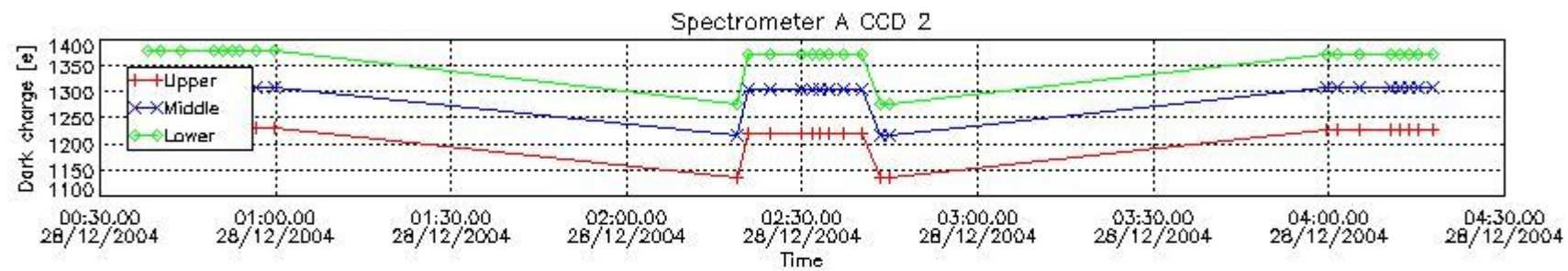
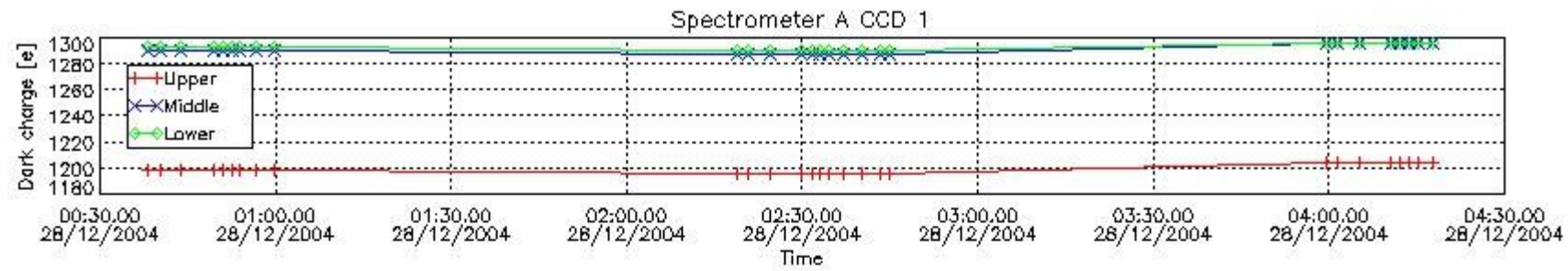
4. Overview of dark signal processing per product

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



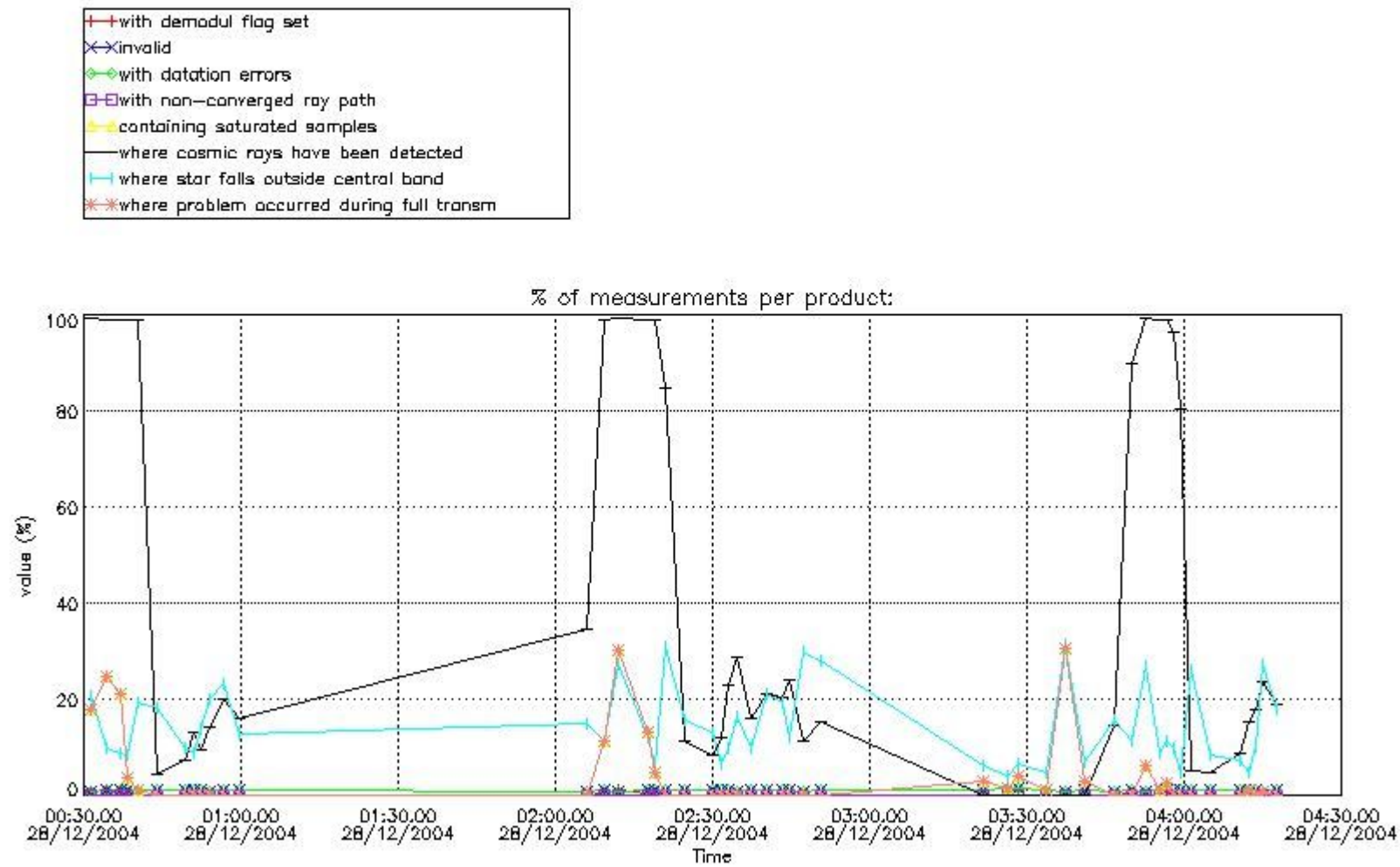
5. Demodulation flag and quality information monitoring

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.

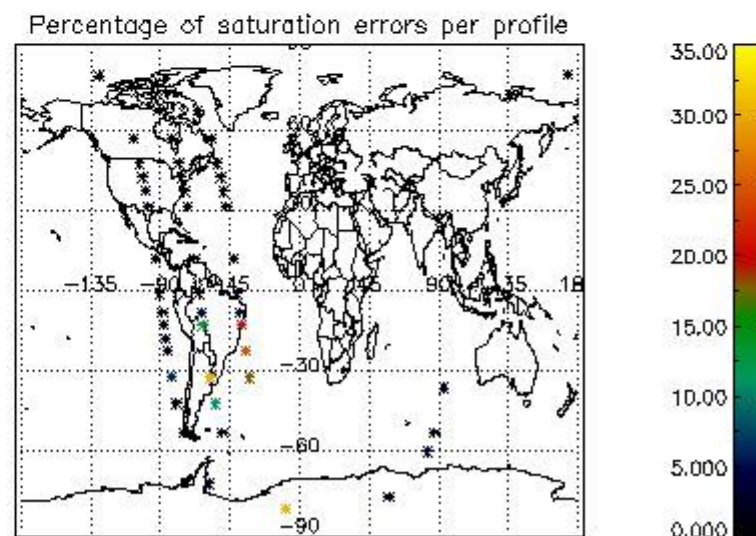
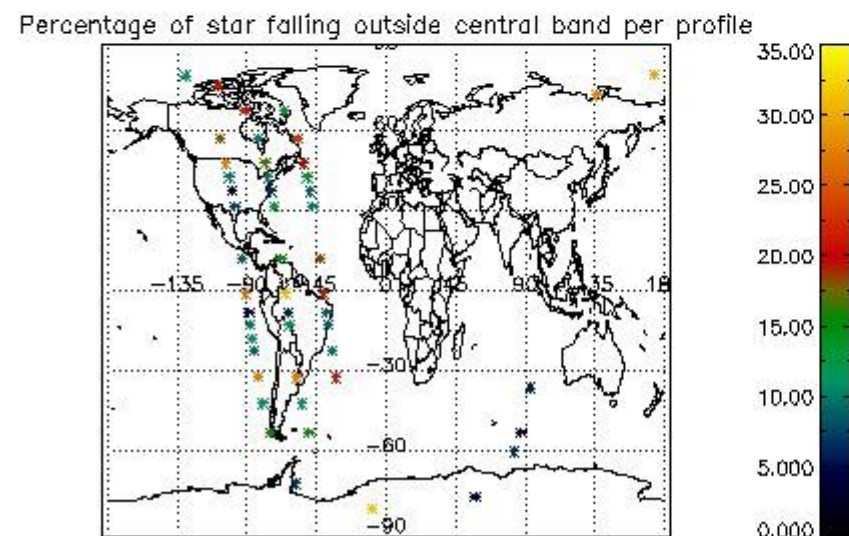
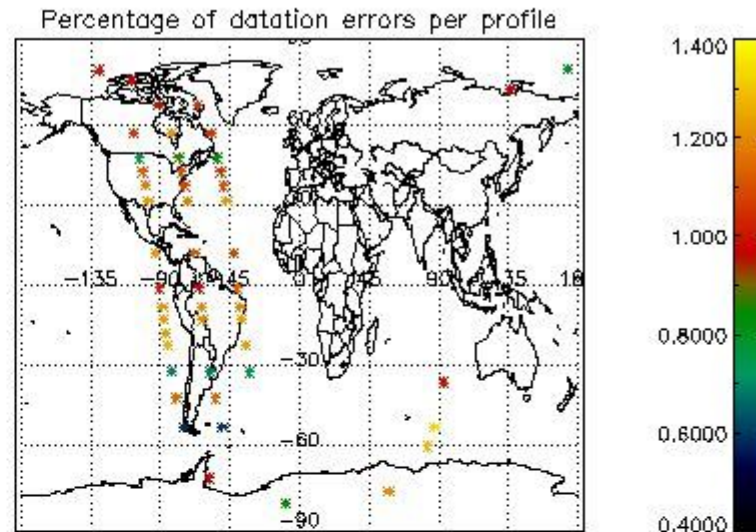
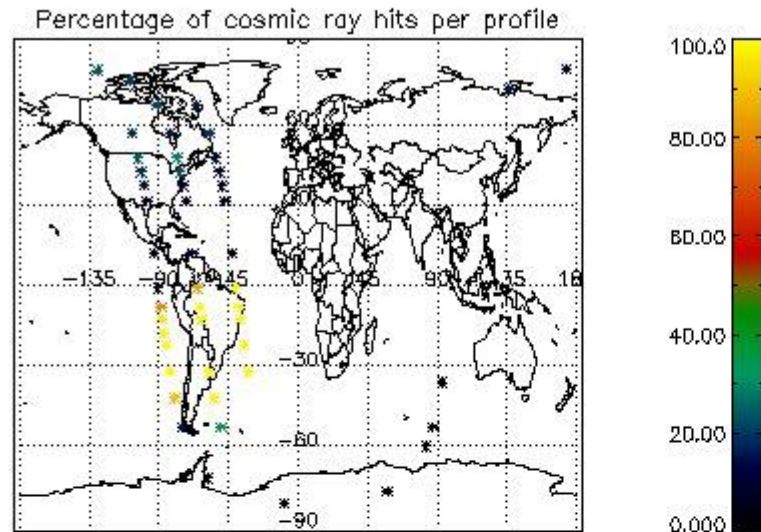
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.6939 %
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)



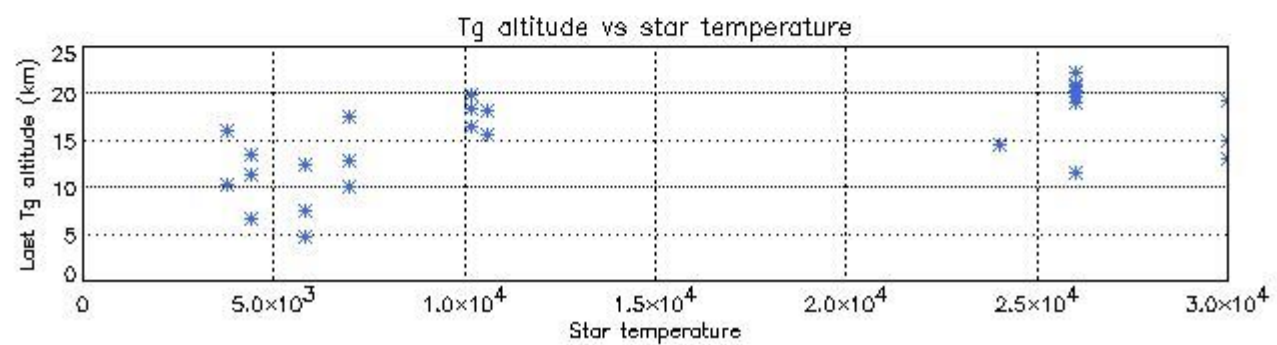
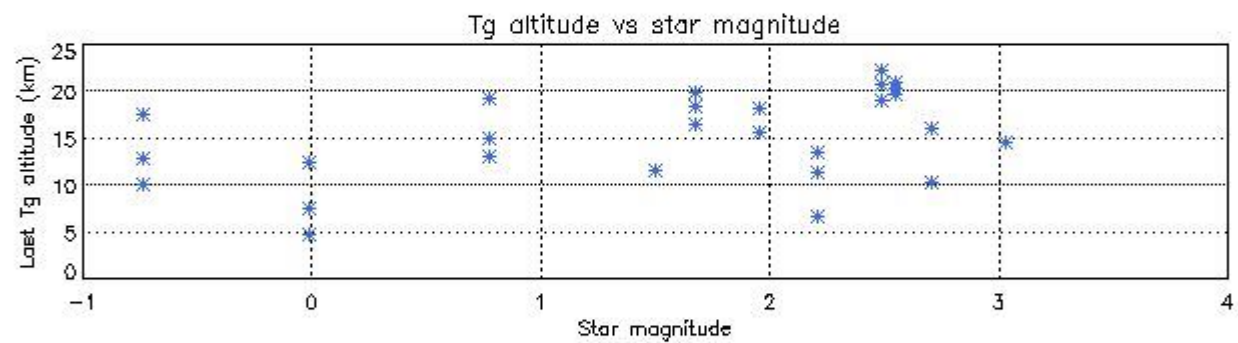
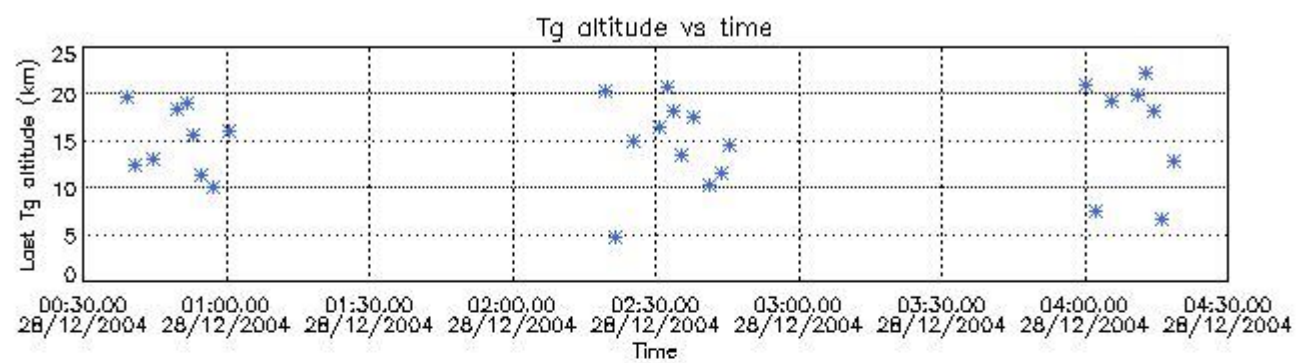
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.197	16.828	14.003
St. deviation:	4.6773	7.4051	4.3939
Maximum:	22.300	22.984	18.643
Minimum:	4.7336	5.4067	6.2748
Number of data:	28.000	7.0000	14.000

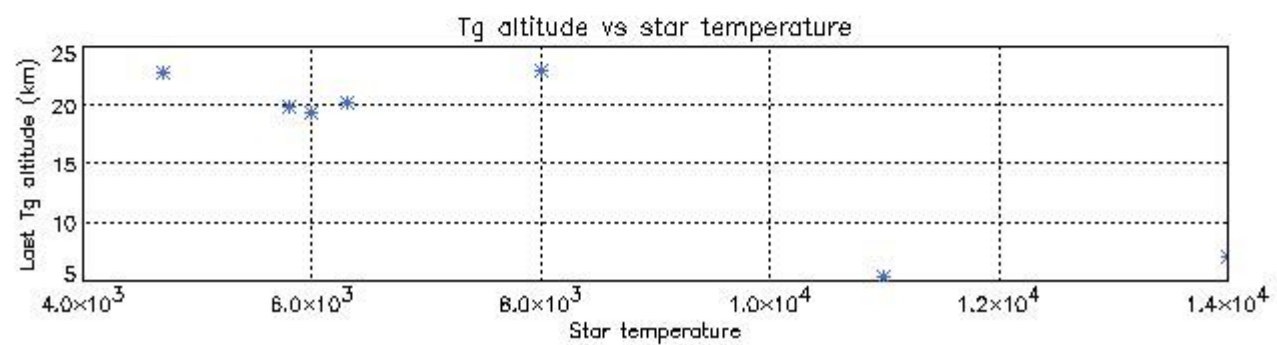
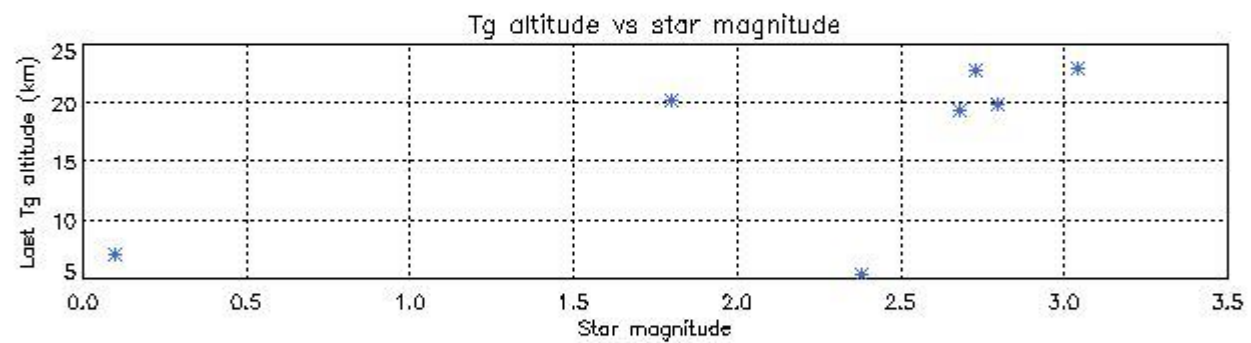
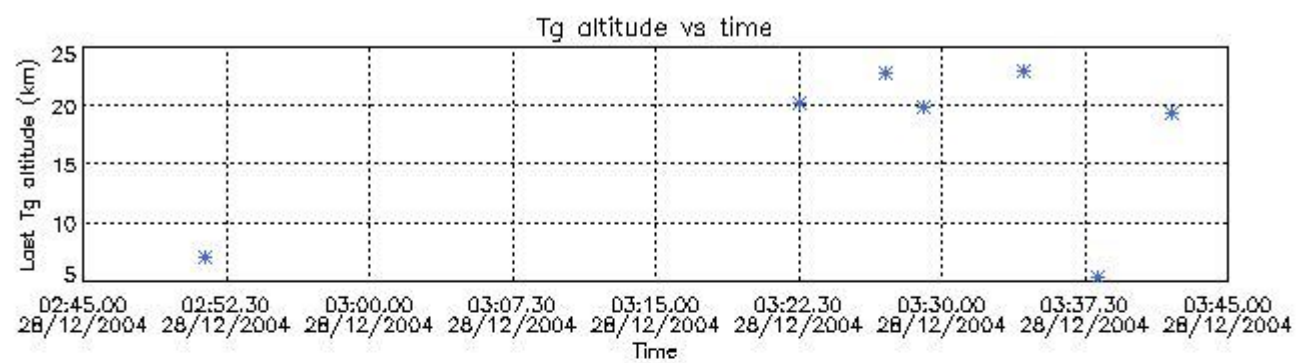
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



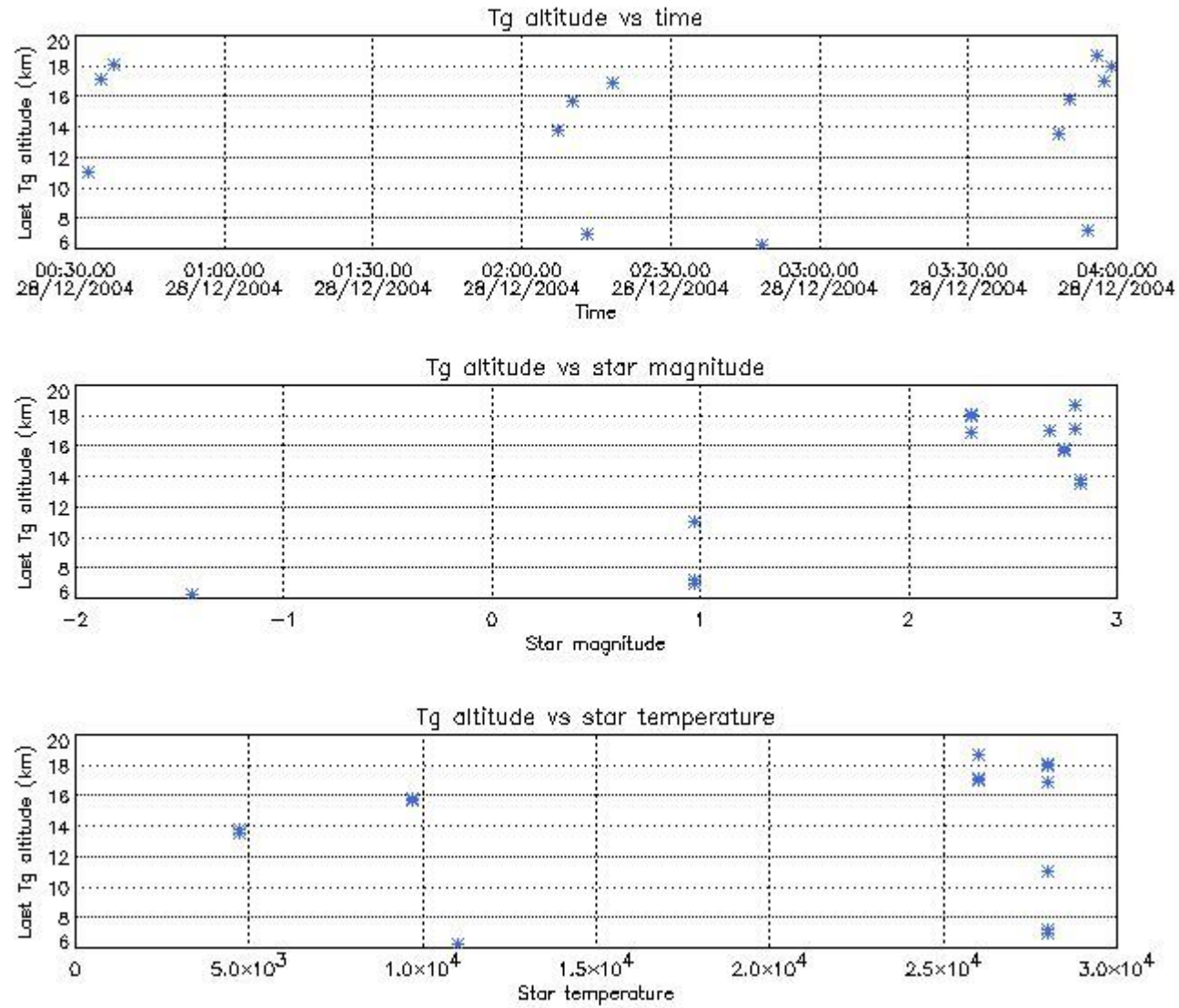
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

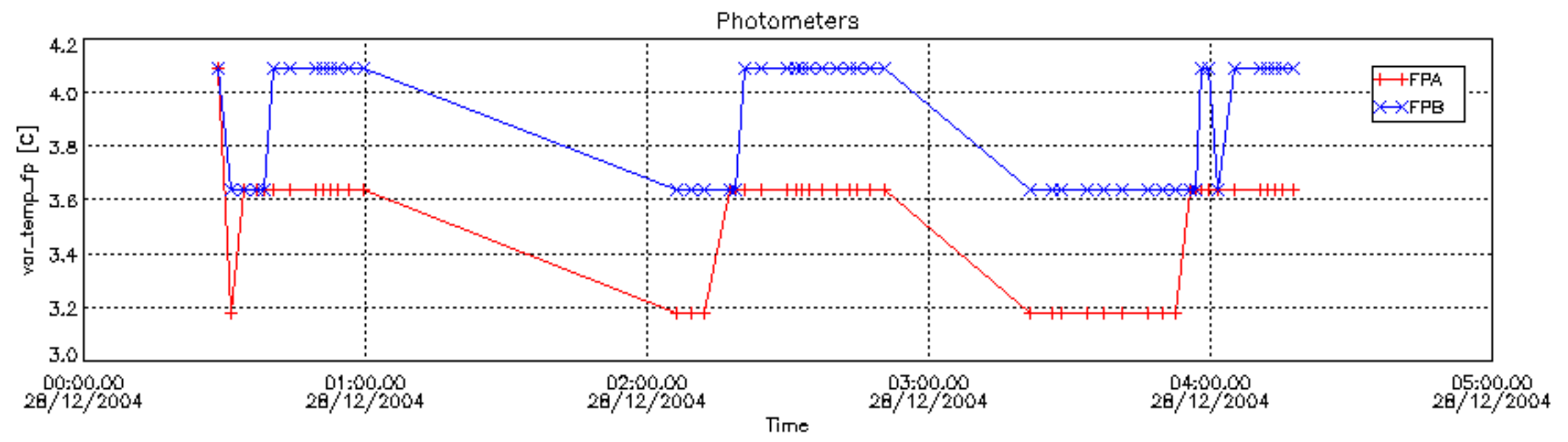
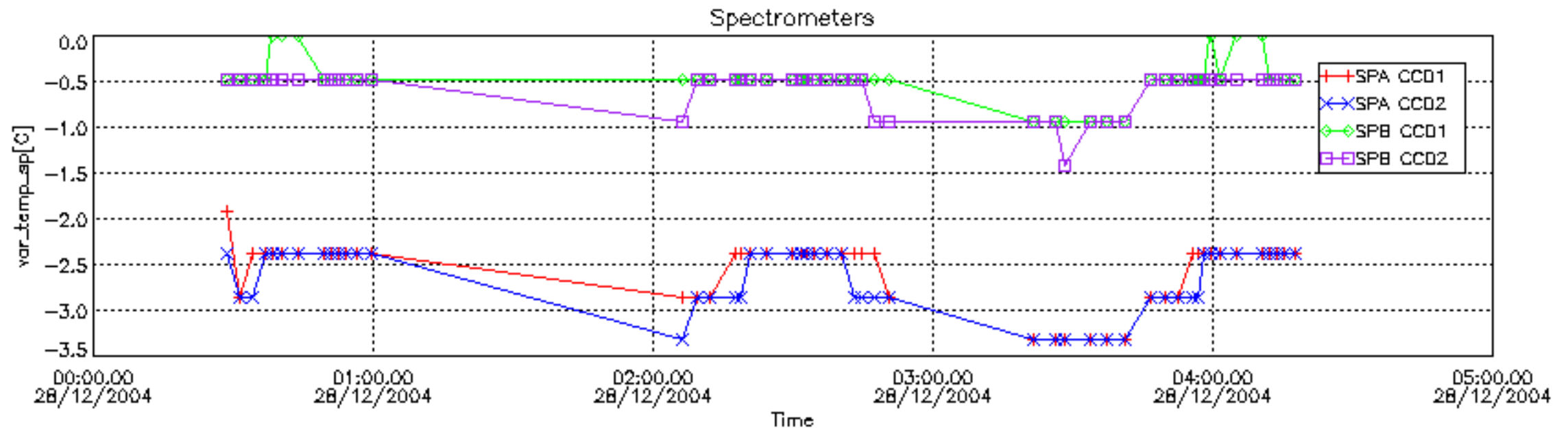
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

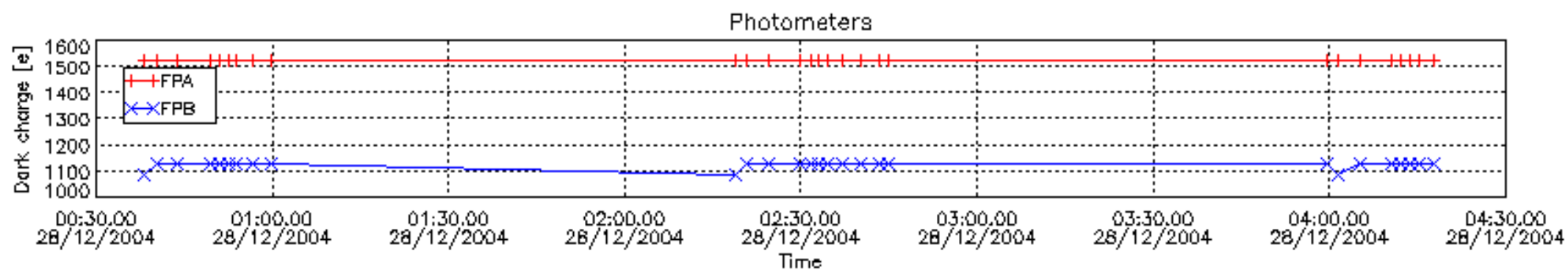
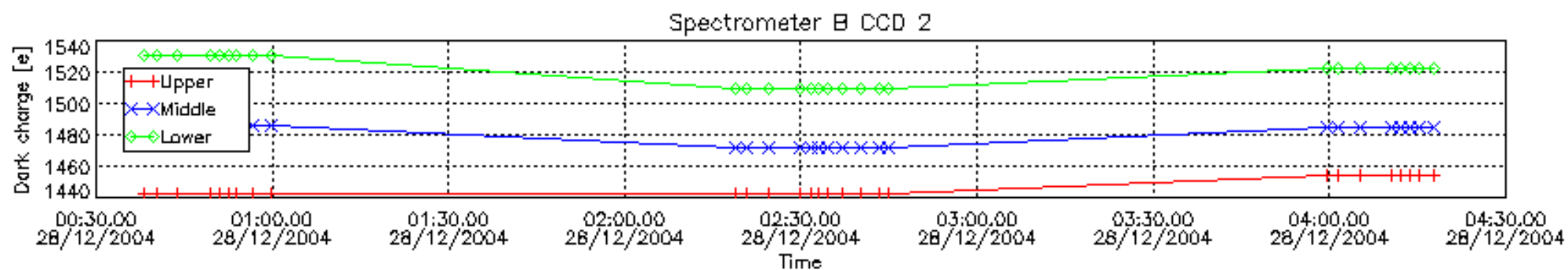
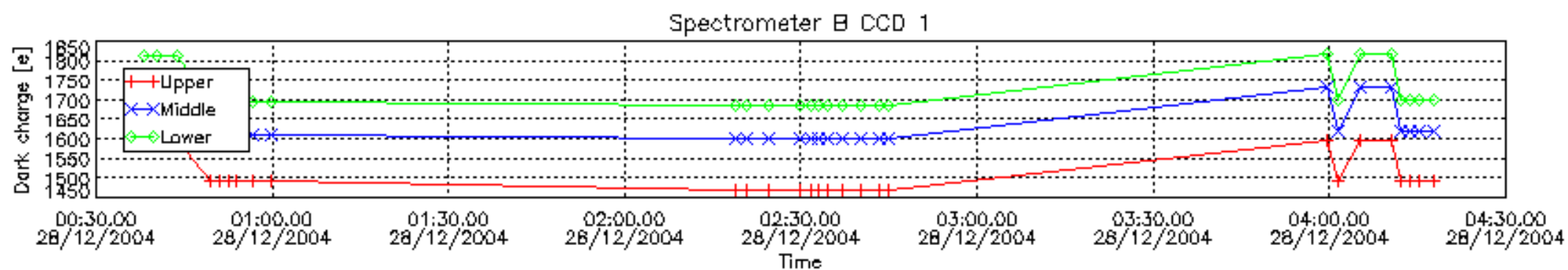
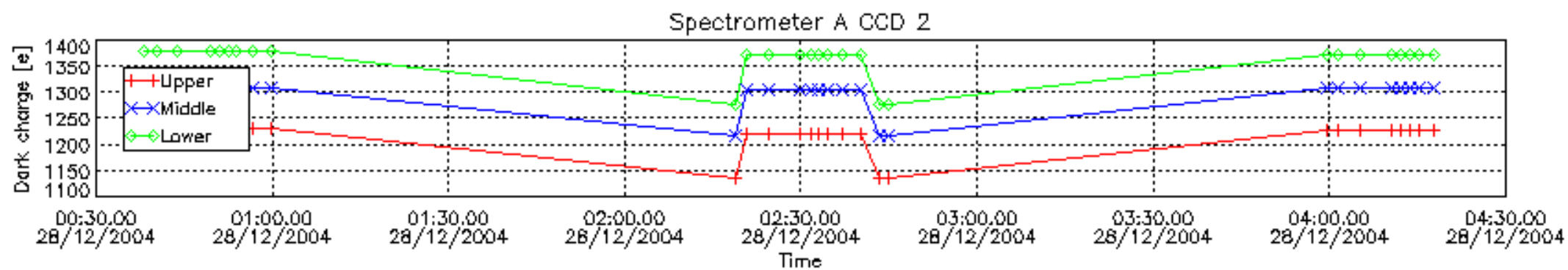
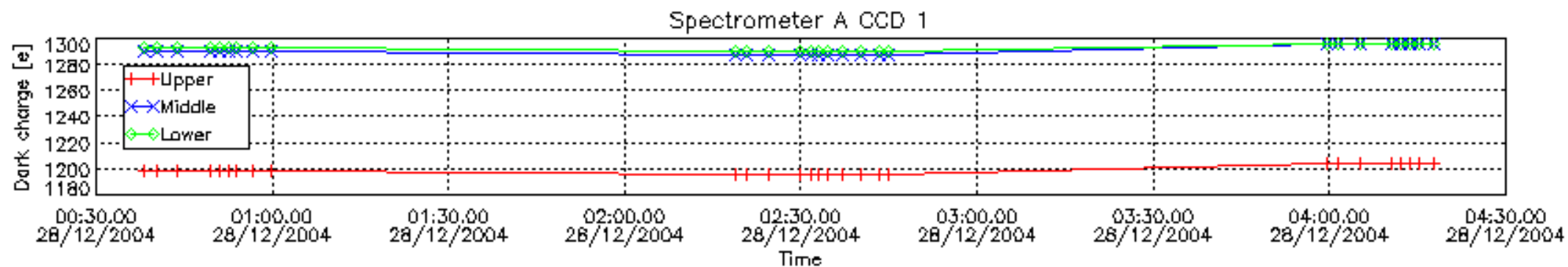
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.6	1446.4	1461.1	1448.5
St. deviation:	4.7337	7.5990	6.6664	9.1209
Maximum:	1553.0	1729.0	1515.0	1507.0
Minimum:	1449.0	1428.0	1437.0	1411.0
Number of data:	34450.	34450.	8100.0	8100.0

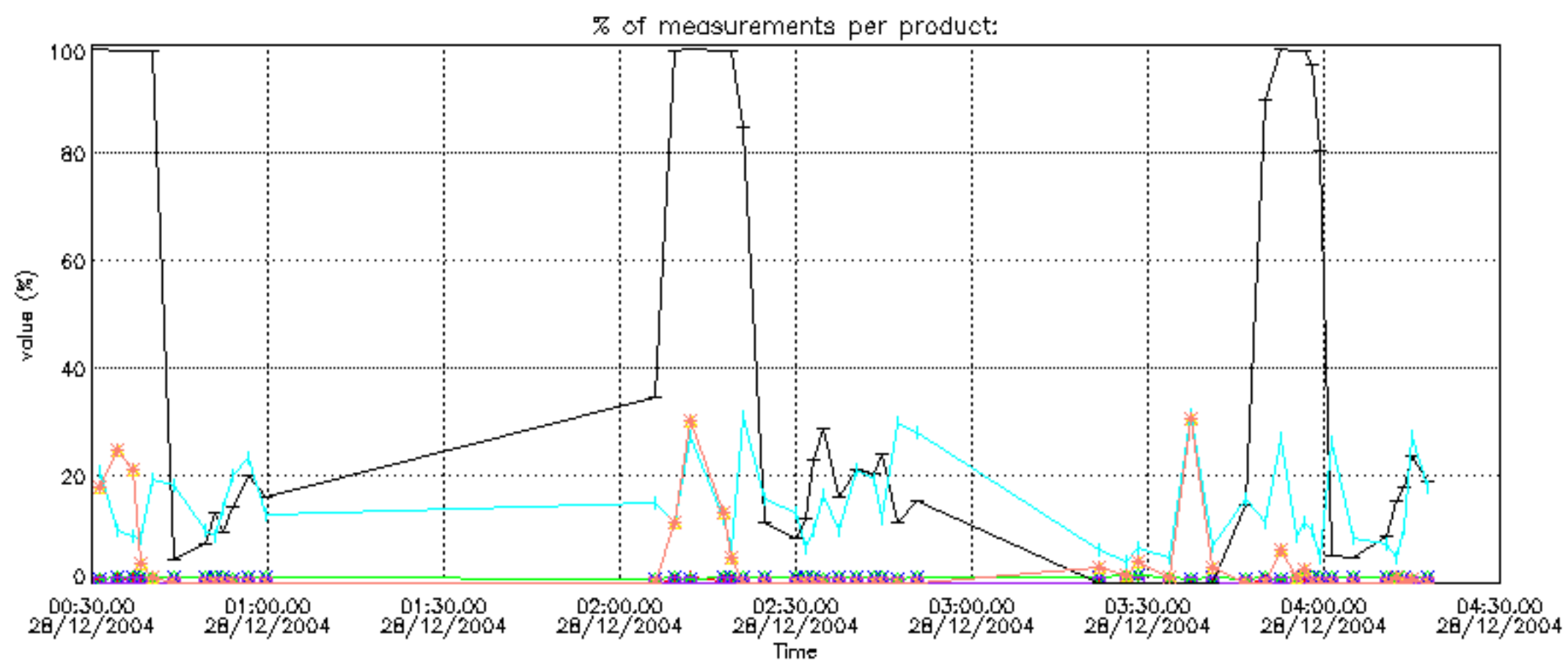
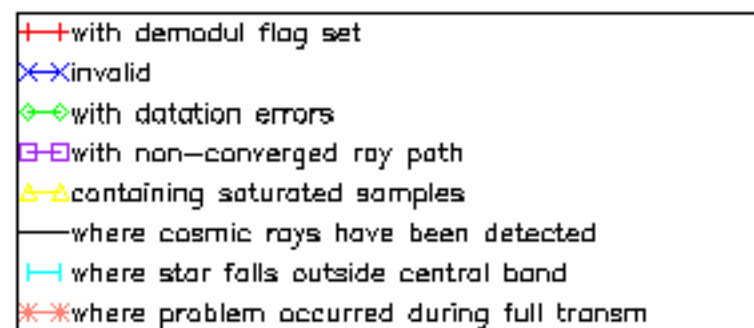
8. Auxiliary Data Files used for the production reported in section 2.2

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.

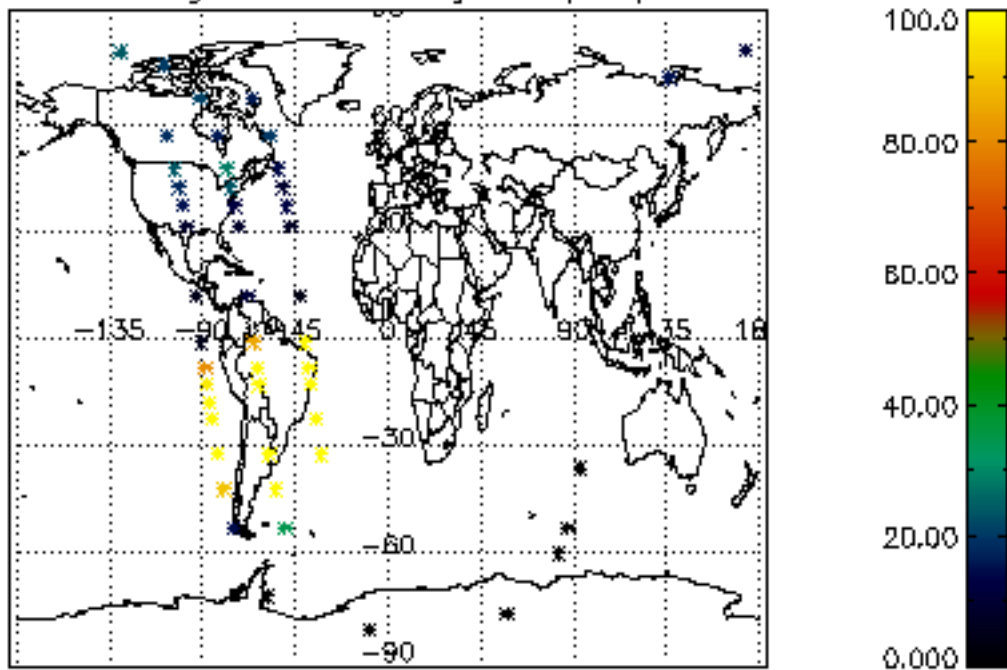
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	28-DEC-2004 00:28:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	28-DEC-2004 00:28:39
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	28-DEC-2004 00:28:39
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-DEC-2004 00:28:39
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	28-DEC-2004 00:28:39
ECMWF_FILE	AUX_ECF_AXNECM20041227_060639_20041227_210000_20041228_090000	1	28-DEC-2004 00:28:39
ECMWF_FILE	AUX_ECF_AXNECM20041227_192154_20041228_030000_20041228_150000	31	28-DEC-2004 03:21:37
OPTIONAL_ECMWF_FILE	NOT USED	1	28-DEC-2004 00:28:39
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041227_225145_20041227_193846_20050106_210458	1	28-DEC-2004 00:28:39



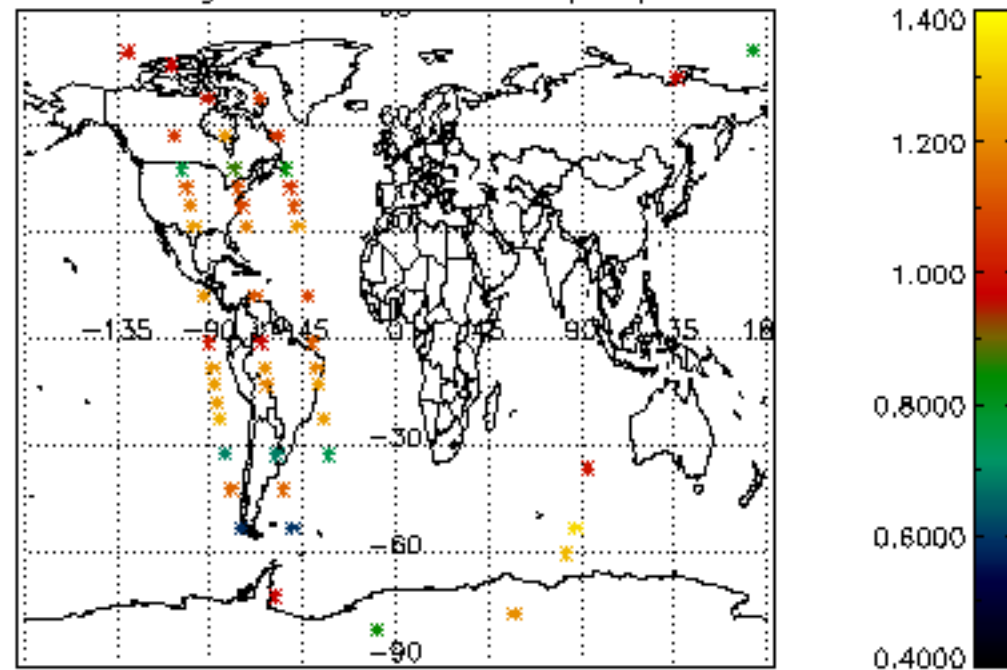




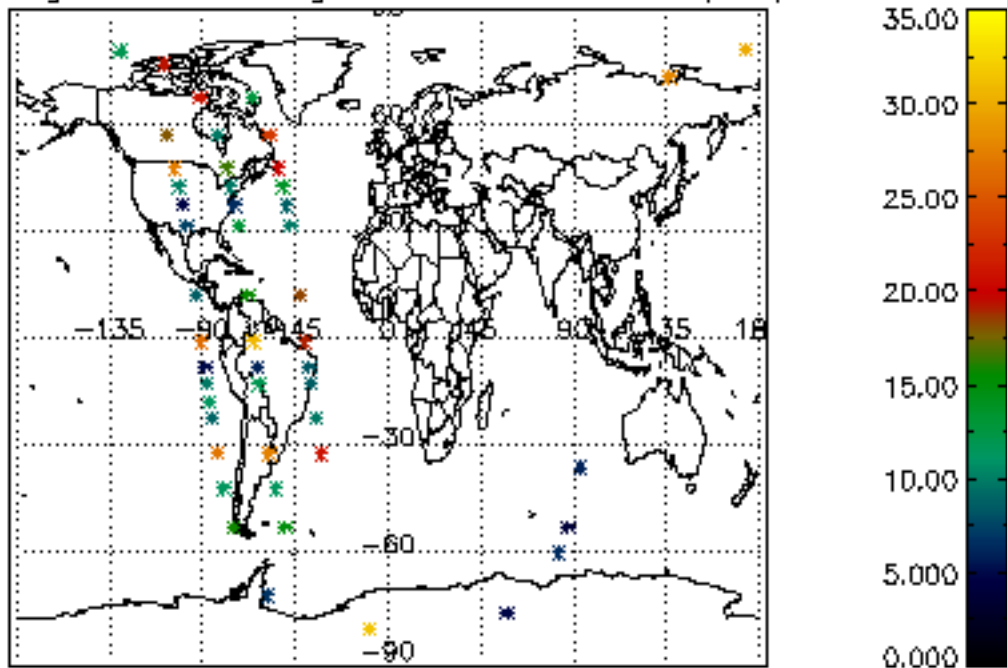
Percentage of cosmic ray hits per profile



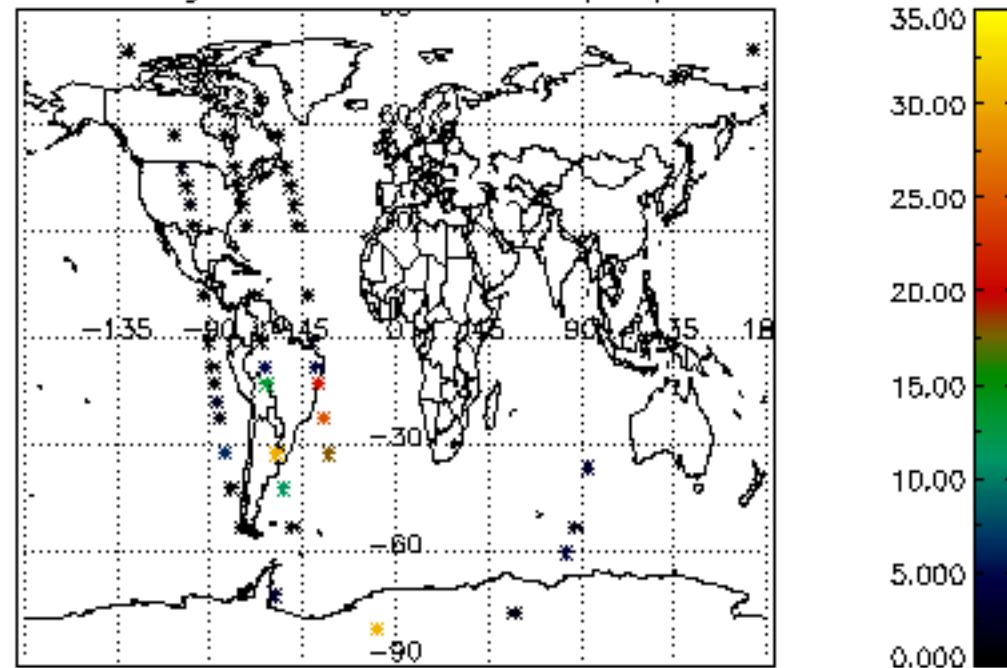
Percentage of datation errors per profile



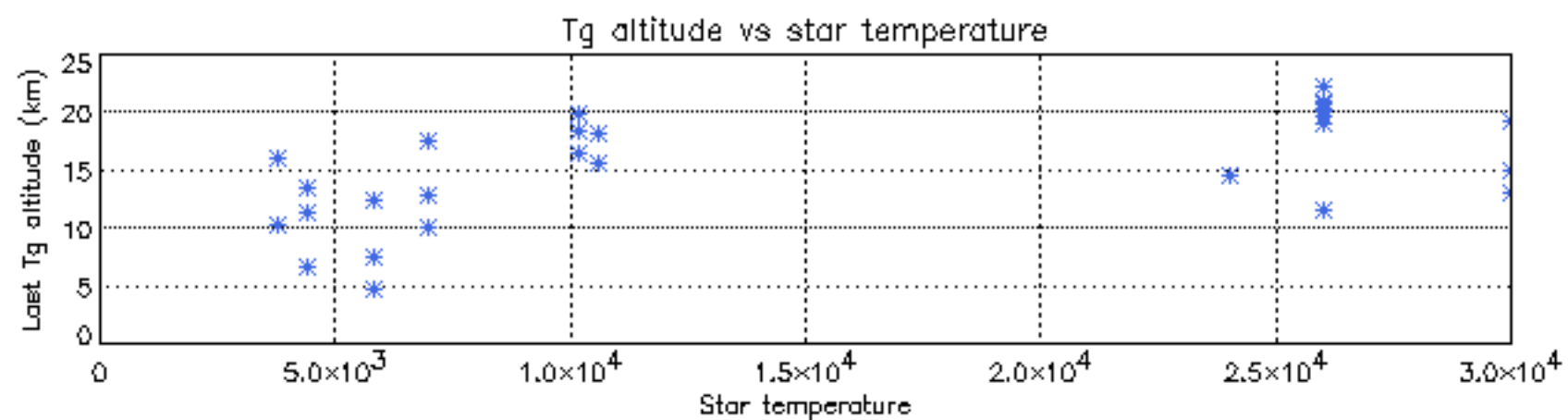
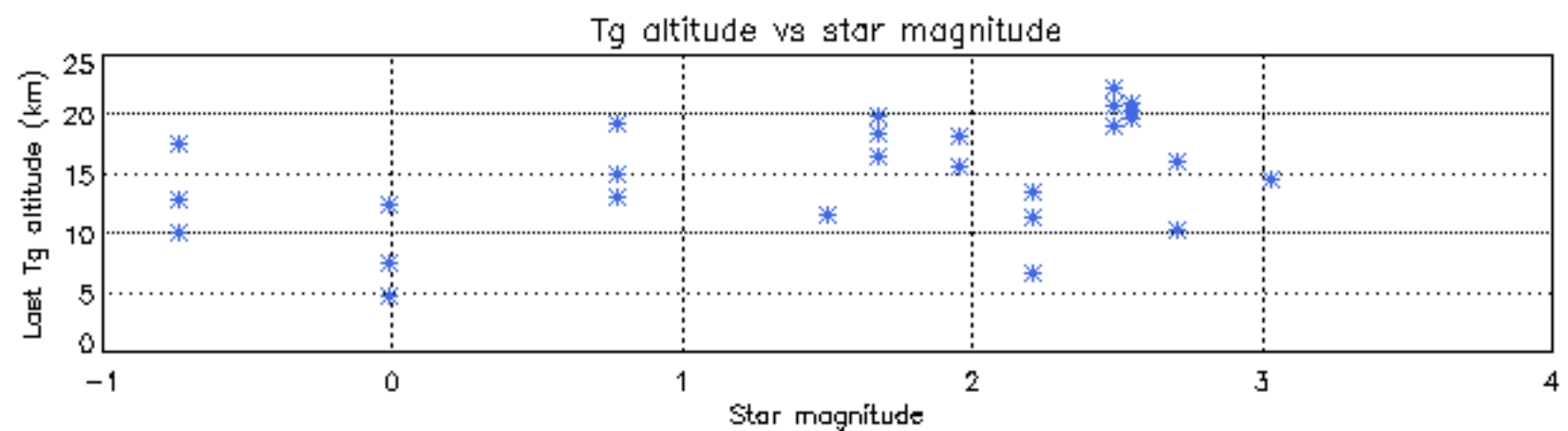
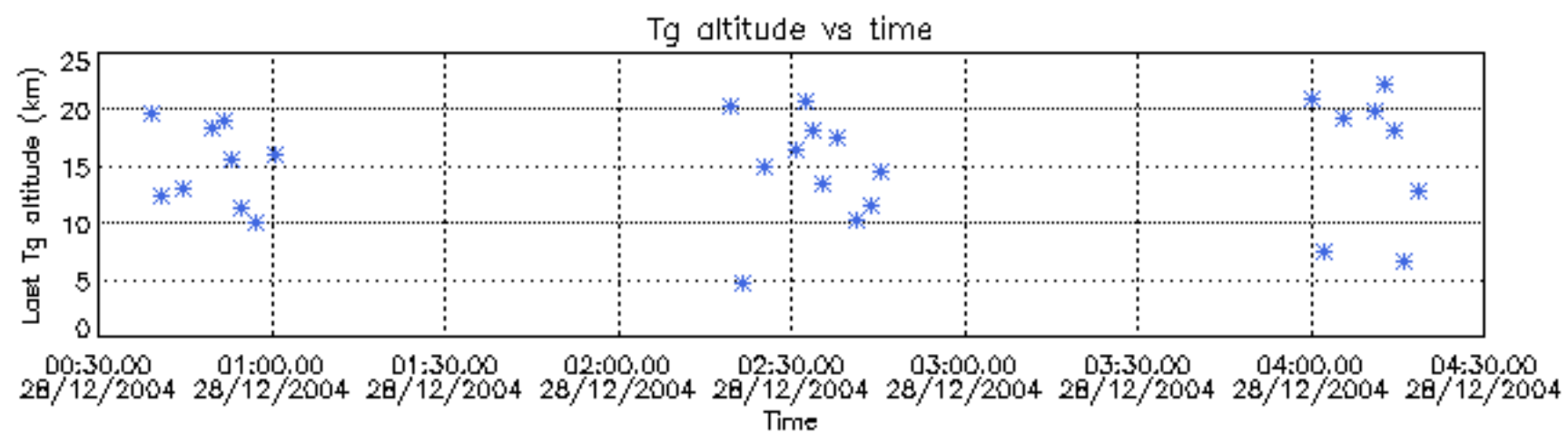
Percentage of star falling outside central band per profile



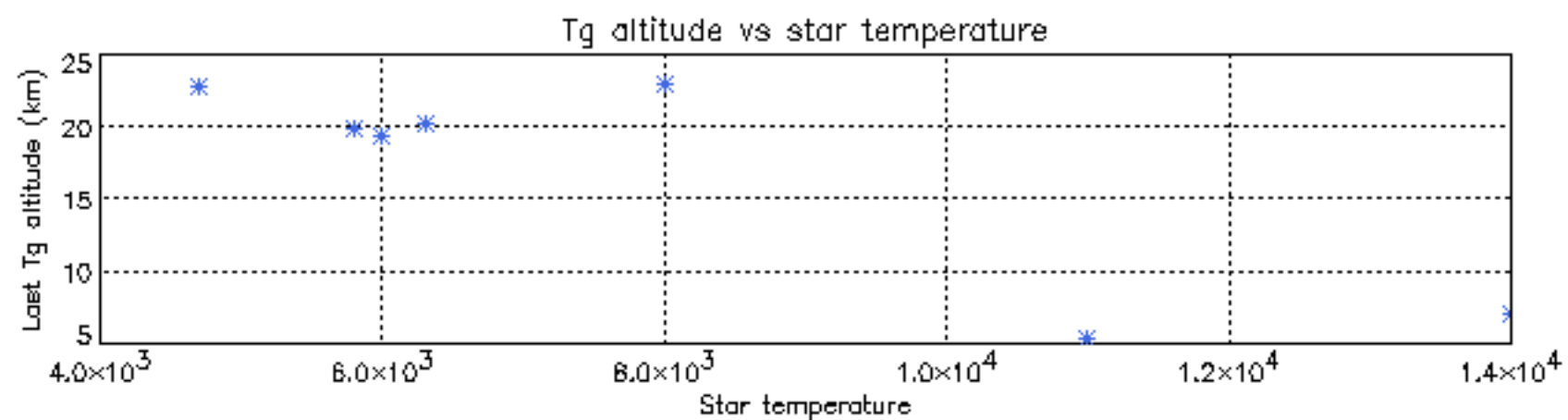
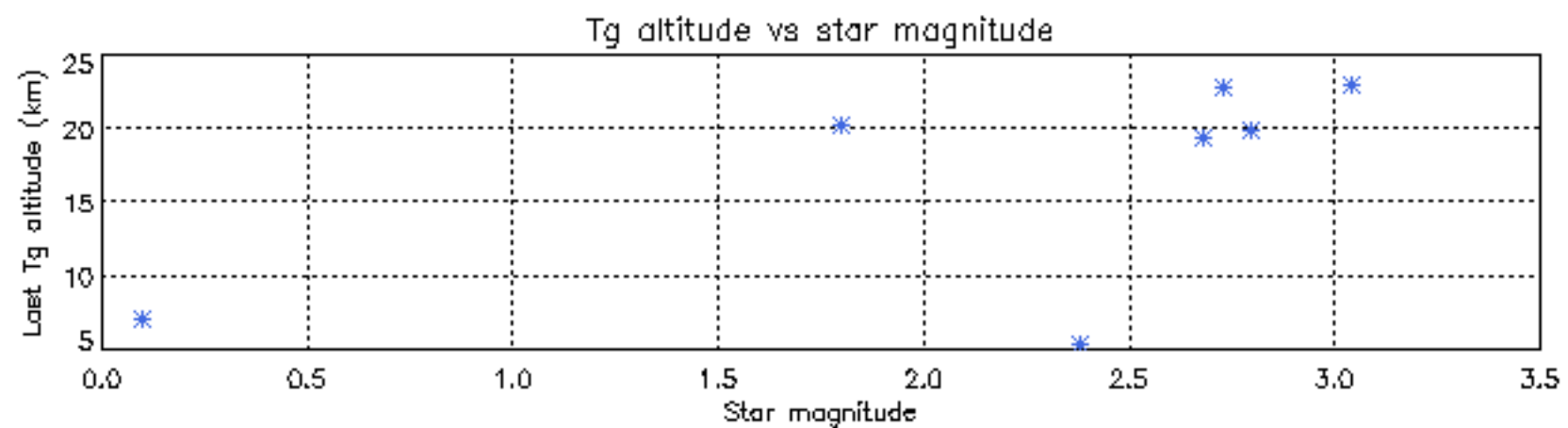
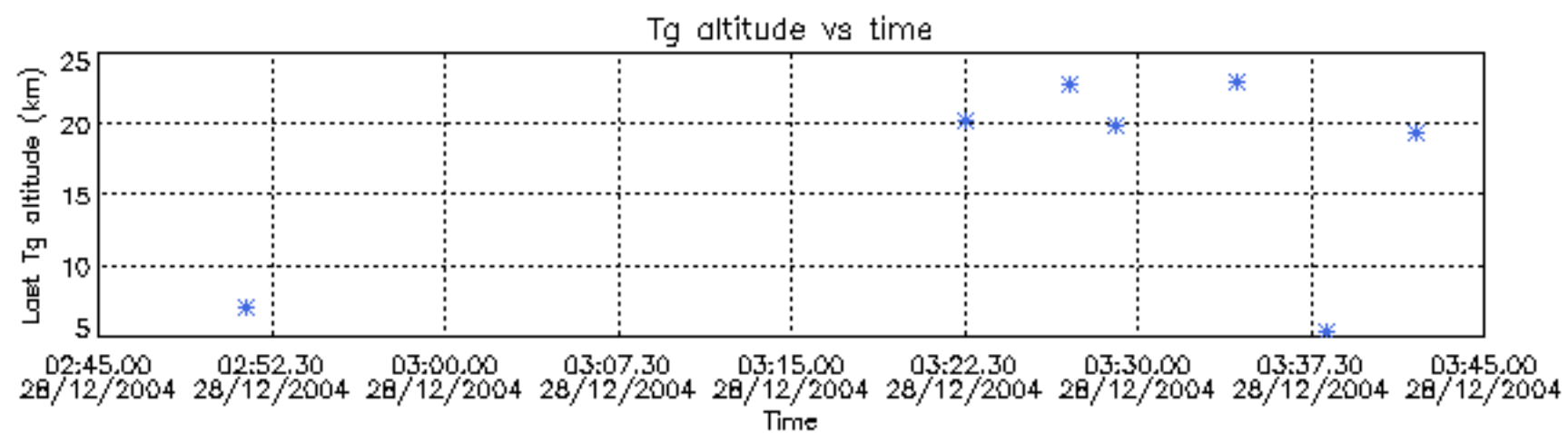
Percentage of saturation errors per profile



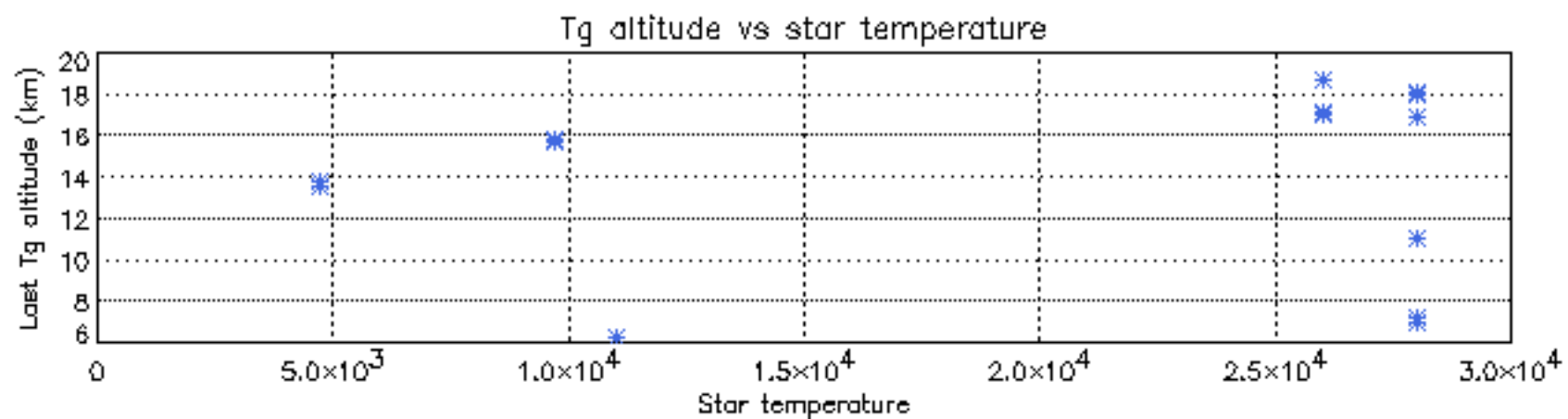
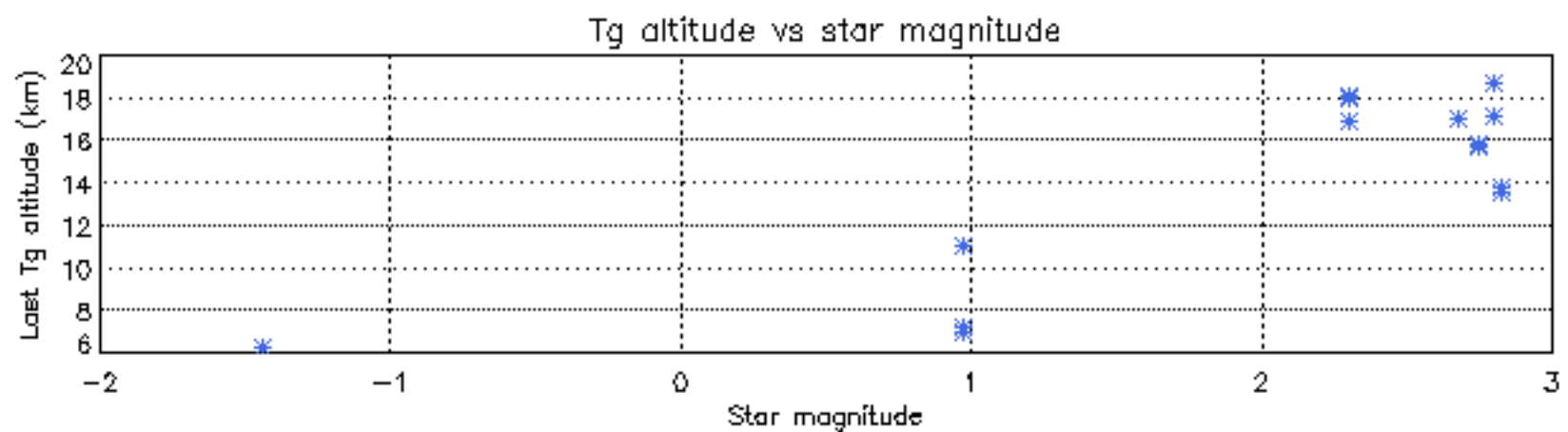
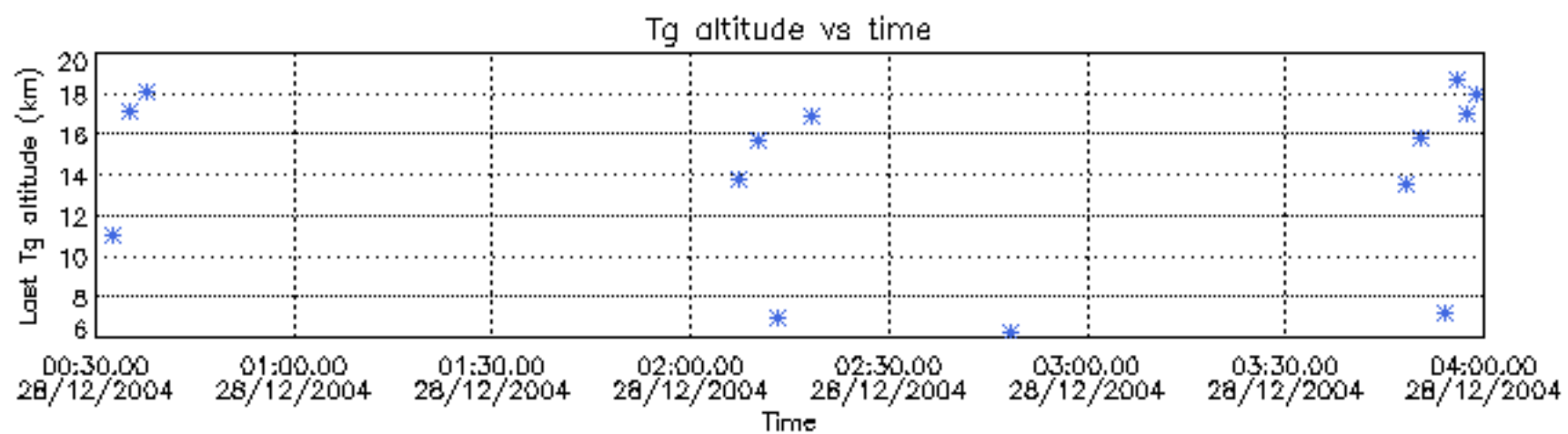
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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

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

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

1; -2338.3; 01-DEC-2004 02:31:07; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;14400
 2; -2217.7; 01-DEC-2004 02:33:08; Bright; 46.5; 36; 50Alp UMA ; 1.80; 6300;occ; 93; 0;14400
 3; -2121.5; 01-DEC-2004 02:34:44; Bright; 46.5; 82; 48Bet UMA ; 2.37; 10600;occ; 93; 0;14400
 4; -2024.4; 01-DEC-2004 02:36:21; Bright; 43.0; 32; 77Eps UMA ; 1.76; 11000;occ; 86; 0;14400
 5; -1898.3; 01-DEC-2004 02:38:27; Bright; 37.0; 39; 85Eta UMA ; 1.85; 24000;occ; 74; 0;14400
 6; -1724.8; 01-DEC-2004 02:41:21; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104; 0;14400
 7; -1545.5; 01-DEC-2004 02:44:20; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;14400
 8; -1390.8; 01-DEC-2004 02:46:55; Bright; 35.0; 3; 16Alp Boo ; -0.05; 4250;occ; 70; 0;14400
 9; -1171.0; 01-DEC-2004 02:50:35; Bright; 74.5; 96; 68Del Leo ; 2.56; 9300;occ; 149; 0;14400
 10; -914.8; 01-DEC-2004 02:54:51; Bright; 62.0; 121; 29Gam Vir ; 2.74; 7200;occ; 124; 0;14400
 11; -629.1; 01-DEC-2004 02:59:36; Dark ; 46.5; 163; 7Del Crv ; 2.94; 11000;occ; 93; 0;14400
 12; -531.4; 01-DEC-2004 03:01:14; Dark ; 48.0; 106; 9Bet Crv ; 2.65; 5600;occ; 96; 0;14400
 13; -413.6; 01-DEC-2004 03:03:12; Dark ; 40.0; 123; Tot Cen ; 2.75; 10200;occ; 80; 0;14400
 14; -172.8; 01-DEC-2004 03:07:13; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;14400
 15; -74.7; 01-DEC-2004 03:08:51; Dark ; 48.5; 10; Bet Cen ; 0.61; 28000;occ; 97; 0;14400
 16; 206.2; 01-DEC-2004 03:13:32; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;14401
 17; 360.9; 01-DEC-2004 03:16:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14401
 18; 484.6; 01-DEC-2004 03:18:10; Dark ; 49.0; 41; Eps Car ; 1.86; 4100;occ; 98; 0;14401
 19; 608.3; 01-DEC-2004 03:20:14; Dark ; 59.5; 34; Gam2Vel ; 1.79; 23000;occ; 119; 0;14401
 20; 807.5; 01-DEC-2004 03:23:33; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;14401
 21; 919.8; 01-DEC-2004 03:25:25; Dark ; 67.5; 117; Pi Pup ; 2.71; 3800;occ; 135; 0;14401
 22; 1148.8; 01-DEC-2004 03:29:14; Dark ; 69.0; 23; 21Eps CMA ; 1.50; 26000;occ; 138; 0;14401
 23; 1277.8; 01-DEC-2004 03:31:23; Dark ; 73.5; 179; 240mi2CMA ; 3.03; 24000;occ; 147; 0;14401
 24; 1529.8; 01-DEC-2004 03:35:35; Dark ; 88.5; 1; 9Alp CMA ; -1.44; 11000;occ; 177; 0;14401
 25; 1747.9; 01-DEC-2004 03:39:13; Dark ; 65.0; 7; 19Bet Ori ; 0.10; 14000;occ; 130; 0;14401
 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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 2; -2219.0; 01-DEC-2004 04:13:43; Bright; 48.5; 36; 50Alp UMA ; 1.80; 6300;occ; 97; 0;14401
 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
14; -172.2; 01-DEC-2004 04:47:49; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;14401
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
18; 487.5; 01-DEC-2004 04:58:49; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;14402
19; 609.3; 01-DEC-2004 05:00:51; Dark ; 62.5; 34; Gam2Vel ; 1.79; 23000;occ; 125; 0;14402
20; 808.6; 01-DEC-2004 05:04:10; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;14402
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
35; 3419.7; 01-DEC-2004 05:47:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;14402
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2;-2219.0; 01-DEC-2004 05:54:19; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;14402
3;-2122.7; 01-DEC-2004 05:55:55; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 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
11; -627.7; 01-DEC-2004 06:20:50; Dark ; 44.5; 163; 7Del Crv ; 2.94; 11000;occ; 89; 0;14402
12; -529.5; 01-DEC-2004 06:22:28; Dark ; 49.0; 106; 9Bet Crv ; 2.65; 5600;occ; 98; 0;14402
13; -412.2; 01-DEC-2004 06:24:25; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;14402
14; -171.7; 01-DEC-2004 06:28:26; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0;14402
15; -74.4; 01-DEC-2004 06:30:03; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;14402
16; 207.0; 01-DEC-2004 06:34:45; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0;14403
17; 366.7; 01-DEC-2004 06:37:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14403
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19; 610.0; 01-DEC-2004 06:41:28; Dark ; 50.0; 34; Gam2Vel ; 1.79; 23000;occ; 100; 0;14403
20; 809.1; 01-DEC-2004 06:44:47; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;14403
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
34; 2958.6; 01-DEC-2004 07:20:36; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;14403
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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3;-2024.9; 01-DEC-2004 07:38:09; Bright; 40.0; 32; 77Eps UMA ; 1.76; 11000;occ; 80; 0;14403
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
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16; 1283.3; 01-DEC-2004 21:58:04; Dark ; 74.0; 179; 240mi2CMA ; 3.03; 24000;occ; 148; 0;14412
17; 1530.6; 01-DEC-2004 22:02:11; Dark ; 92.5; 1; 9Alp CMA ; -1.44; 11000;occ; 185; 0;14412
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22; 2323.7; 01-DEC-2004 22:15:25; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;14412
23; 2464.7; 01-DEC-2004 22:17:46; Bright; 41.0; 150; 44Zet Per ; 2.89; 28000;occ; 82; 0;14412
24; 2601.9; 01-DEC-2004 22:20:03; Bright; 39.5; 79; 26Bet Per ; 2.31; 13100;occ; 79; 0;14412
25; 2732.2; 01-DEC-2004 22:22:13; Bright; 39.0; 175; 39Del Per ; 3.01; 19400;occ; 78; 0;14412
26; 2815.6; 01-DEC-2004 22:23:36; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;14412
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31; 3909.5; 01-DEC-2004 22:41:50; Bright; 49.5; 82; 48Bet UMA ; 2.37; 10600;occ; 99; 0;14412
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34; 4313.6; 01-DEC-2004 22:48:34; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;14412
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4;	-280.6;	01-DEC-2004	23:12:36;	Dark	;	40.0;	95;	Zet Cen	;	2.55;	26000;occ;	80;	0;	14412
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11;	619.3;	01-DEC-2004	23:27:36;	Dark	;	51.5;	34;	Gam2Vel	;	1.79;	23000;occ;	103;	0;	14413
12;	814.2;	01-DEC-2004	23:30:51;	Dark	;	58.0;	2;	Alp Car	;	-0.74;	7000;occ;	116;	0;	14413
13;	929.6;	01-DEC-2004	23:32:46;	Dark	;	63.5;	117;	Pi Pup	;	2.71;	3800;occ;	127;	0;	14413
14;	1155.2;	01-DEC-2004	23:36:32;	Dark	;	73.0;	23;	21Eps CMA	;	1.50;	26000;occ;	146;	0;	14413
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16;	1531.1;	01-DEC-2004	23:42:48;	Dark	;	92.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	184;	0;	14413
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21;	2323.4;	01-DEC-2004	23:56:00;	Bright;	;	42.0;	146;	25Eta Tau	;	2.87;	15200;occ;	84;	0;	14413
22;	2464.5;	01-DEC-2004	23:58:21;	Bright;	;	40.5;	150;	44Zet Per	;	2.89;	28000;occ;	81;	0;	14413
23;	2601.9;	02-DEC-2004	00:00:39;	Bright;	;	38.0;	79;	26Bet Per	;	2.31;	13100;occ;	76;	0;	14413
24;	2731.8;	02-DEC-2004	00:02:48;	Bright;	;	38.5;	175;	39Del Per	;	3.01;	19400;occ;	77;	0;	14413
25;	2815.2;	02-DEC-2004	00:04:12;	Bright;	;	37.0;	160;	23Gam Per	;	2.93;	4700;occ;	74;	0;	14413
26;	2959.4;	02-DEC-2004	00:06:36;	Bright;	;	38.0;	110;	37Del Cas	;	2.68;	8900;occ;	76;	0;	14413
27;	3419.1;	02-DEC-2004	00:14:16;	Bright;	;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	14413
28;	3700.6;	02-DEC-2004	00:18:57;	Bright;	;	39.5;	60;	7Bet UMi	;	2.08;	3950;occ;	79;	0;	14413
29;	3813.5;	02-DEC-2004	00:20:50;	Bright;	;	45.5;	36;	50Alp UMA	;	1.80;	6300;occ;	91;	0;	14413
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32;	4138.2;	02-DEC-2004	00:26:15;	Bright;	;	39.5;	39;	85Eta UMA	;	1.85;	24000;occ;	79;	0;	14413
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15;	-2124.6;	01-DEC-2004	15:59:28;	Bright;	;	44.0;	82;	48Bet UMA	;	2.37;	10600;occ;	88;	0;	14408
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17;	-1898.6;	01-DEC-2004	16:03:14;	Bright;	;	54.0;	39;	85Eta UMA	;	1.85;	24000;occ;	108;	0;	14408
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