

GOMOS Daily Report 03-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	05DEC2004 05:07:02

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (03DEC2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (04DEC2004 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)

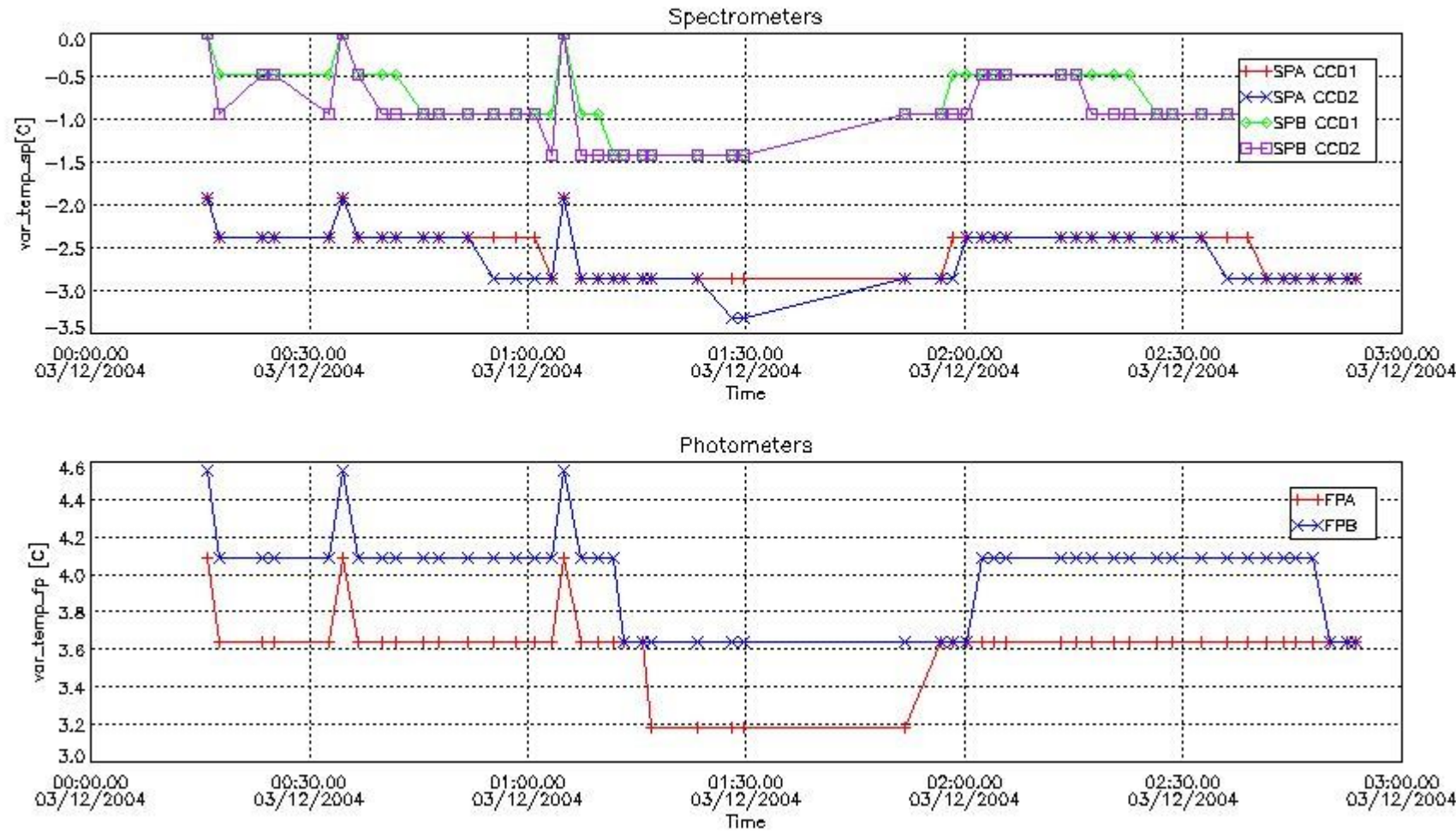
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20041203_001604_000000522032_00345_14427_0000.N1	03-DEC-2004 00:16:04	Twilight	52.000	163	7Del Crv	2.9450	11000.	104	14427	Yes
2	GOM_TRA_1PNPDE20041203_001740_000000532032_00345_14427_0001.N1	03-DEC-2004 00:17:40	Twilight	53.000	106	9Bet Crv	2.6480	5600.0	106	14427	No
3	GOM_TRA_1PNPDE20041203_002329_000000412032_00345_14427_0003.N1	03-DEC-2004 00:23:29	Dark	40.500	77	Eps Cen	2.3030	28000.	81	14427	No
4	GOM_TRA_1PNPDE20041203_002504_000000422032_00345_14427_0004.N1	03-DEC-2004 00:25:04	Dark	42.000	10	Bet Cen	0.61000	28000.	84	14427	No
5	GOM_TRA_1PNPDE20041203_003236_000000442032_00346_14428_0005.N1	03-DEC-2004 00:32:36	Dark	43.500	29	Bet Car	1.6720	10200.	87	14428	No
6	GOM_TRA_1PNPDE20041203_003438_000000482032_00346_14428_0006.N1	03-DEC-2004 00:34:38	Dark	48.000	41	Eps Car	1.8600	4100.0	96	14428	No
7	GOM_TRA_1PNPDE20041203_003647_000000512032_00346_14428_0007.N1	03-DEC-2004 00:36:47	Dark	51.000	34	Gam2Vel	1.7930	23000.	102	14428	No
8	GOM_TRA_1PNPDE20041203_003957_000000512032_00346_14428_0008.N1	03-DEC-2004 00:39:57	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	14428	No
9	GOM_TRA_1PNPDE20041203_004159_000000642032_00346_14428_0009.N1	03-DEC-2004 00:41:59	Dark	63.500	117	Pi Pup	2.7060	3800.0	127	14428	No
10	GOM_TRA_1PNPDE20041203_004543_000000632032_00346_14428_0010.N1	03-DEC-2004 00:45:43	Dark	62.500	23	21Eps CMa	1.5020	26000.	125	14428	No
11	GOM_TRA_1PNPDE20041203_004749_000000692032_00346_14428_0011.N1	03-DEC-2004 00:47:49	Dark	69.000	179	24Omi2CMa	3.0320	24000.	138	14428	No
12	GOM_TRA_1PNPDE20041203_005148_000000842032_00346_14428_0012.N1	03-DEC-2004 00:51:48	Twilight	83.500	1	9Alp CMa	-1.4400	11000.	167	14428	No
13	GOM_TRA_1PNPDE20041203_005524_000000552032_00346_14428_0013.N1	03-DEC-2004 00:55:24	Bright	55.000	7	19Bet Ori	0.10000	14000.	110	14428	No
14	GOM_TRA_1PNPDE20041203_005815_000000602032_00346_14428_0014.N1	03-DEC-2004 00:58:15	Bright	59.500	30	46Eps Ori	1.6940	30000.	119	14428	No
15	GOM_TRA_1PNPDE20041203_010054_000000632032_00346_14428_0015.N1	03-DEC-2004 01:00:54	Bright	62.500	27	24Gam Ori	1.6360	26000.	125	14428	No
16	GOM_TRA_1PNPDE20041203_010316_000000612032_00346_14428_0016.N1	03-DEC-2004 01:03:16	Bright	61.000	13	87Alp Tau	0.86700	3800.0	122	14428	No
17	GOM_TRA_1PNPDE20041203_010457_000000422032_00346_14428_0017.N1	03-DEC-2004 01:04:57	Bright	41.500	146	25Eta Tau	2.8730	15200.	83	14428	No
18	GOM_TRA_1PNPDE20041203_010717_000000412032_00346_14428_0018.N1	03-DEC-2004 01:07:17	Bright	40.500	150	44Zet Per	2.8900	28000.	81	14428	No
19	GOM_TRA_1PNPDE20041203_010935_000000412032_00346_14428_0019.N1	03-DEC-2004 01:09:35	Bright	40.500	79	26Bet Per	2.3100	13100.	81	14428	No
20	GOM_TRA_1PNPDE20041203_011146_000000372032_00346_14428_0020.N1	03-DEC-2004 01:11:46	Bright	37.000	175	39Del Per	3.0100	19400.	74	14428	No
21	GOM_TRA_1PNPDE20041203_011309_000000392032_00346_14428_0021.N1	03-DEC-2004 01:13:09	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	14428	No
22	GOM_TRA_1PNPDE20041203_011538_000000372032_00346_14428_0022.N1	03-DEC-2004 01:15:38	Bright	37.000	110	37Del Cas	2.6780	8900.0	74	14428	No
23	GOM_TRA_1PNPDE20041203_011654_000000392032_00346_14428_0023.N1	03-DEC-2004 01:16:54	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	14428	No
24	GOM_TRA_1PNPDE20041203_012314_000000402032_00346_14428_0024.N1	03-DEC-2004 01:23:14	Bright	39.500	49	1Alp UMi	1.9900	6300.0	79	14428	No
25	GOM_TRA_1PNPDE20041203_012756_000000382032_00346_14428_0025.N1	03-DEC-2004 01:27:56	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	14428	No
26	GOM_TRA_1PNPDE20041203_012944_000000442032_00346_14428_0026.N1	03-DEC-2004 01:29:44	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	14428	No
27	GOM_TRA_1PNPDE20041203_015151_000000512032_00346_14428_0000.N1	03-DEC-2004 01:51:51	Twilight	51.000	121	29Gam Vir	2.7400	7200.0	102	14428	No
28	GOM_TRA_1PNPDE20041203_015642_000000482032_00346_14428_0001.N1	03-DEC-2004 01:56:42	Twilight	48.000	163	7Del Crv	2.9450	11000.	96	14428	No
29	GOM_TRA_1PNPDE20041203_015816_000000542032_00346_14428_0002.N1	03-DEC-2004 01:58:16	Twilight	53.500	106	9Bet Crv	2.6480	5600.0	107	14428	No
30	GOM_TRA_1PNPDE20041203_020008_000000412032_00346_14428_0003.N1	03-DEC-2004 02:00:08	Twilight	40.500	123	1ot Cen	2.7500	10200.	81	14428	No
31	GOM_TRA_1PNPDE20041203_020214_000000402032_00346_14428_0004.N1	03-DEC-2004 02:02:14	Twilight	39.500	95	Zet Cen	2.5450	26000.	79	14428	No
32	GOM_TRA_1PNPDE20041203_020405_000000392032_00346_14428_0005.N1	03-DEC-2004 02:04:05	Dark	39.000	77	Eps Cen	2.3030	28000.	78	14428	No
33	GOM_TRA_1PNPDE20041203_020540_000000482032_00346_14428_0006.N1	03-DEC-2004 02:05:40	Dark	47.500	10	Bet Cen	0.61000	28000.	95	14428	No
34	GOM_TRA_1PNPDE20041203_021314_000000412032_00347_14429_0007.N1	03-DEC-2004 02:13:14	Dark	41.000	29	Bet Car	1.6720	10200.	82	14429	No
35	GOM_TRA_1PNPDE20041203_021515_000000522032_00347_14429_0008.N1	03-DEC-2004 02:15:15	Dark	52.000	41	Eps Car	1.8600	4100.0	104	14429	No
36	GOM_TRA_1PNPDE20041203_021724_000000522032_00347_14429_0009.N1	03-DEC-2004 02:17:24	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	14429	No
37	GOM_TRA_1PNPDE20041203_022031_000000582032_00347_14429_0010.N1	03-DEC-2004 02:20:31	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	14429	No
38	GOM_TRA_1PNPDE20041203_022236_000000692032_00347_14429_0011.N1	03-DEC-2004 02:22:36	Dark	69.000	117	Pi Pup	2.7060	3800.0	138	14429	No
39	GOM_TRA_1PNPDE20041203_022620_000000662032_00347_14429_0012.N1	03-DEC-2004 02:26:20	Dark	65.500	23	21Eps CMa	1.5020	26000.	131	14429	No
40	GOM_TRA_1PNPDE20041203_022825_000000672032_00347_14429_0013.N1	03-DEC-2004 02:28:25	Dark	67.000	179	24Omi2CMa	3.0320	24000.	134	14429	No
41	GOM_TRA_1PNPDE20041203_023224_000000872032_00347_14429_0014.N1	03-DEC-2004 02:32:24	Twilight	86.500	1	9Alp CMa	-1.4400	11000.	173	14429	No
42	GOM_TRA_1PNPDE20041203_023600_000000632032_00347_14429_0015.N1	03-DEC-2004 02:36:00	Bright	63.000	7	19Bet Ori	0.10000	14000.	126	14429	No
43	GOM_TRA_1PNPDE20041203_023851_000000642032_00347_14429_0016.N1	03-DEC-2004 02:38:51	Bright	64.000	30	46Eps Ori	1.6940	30000.	128	14429	No
44	GOM_TRA_1PNPDE20041203_024130_000000612032_00347_14429_0017.N1	03-DEC-2004 02:41:30	Bright	60.500	27	24Gam Ori	1.6360	26000.	121	14429	No
45	GOM_TRA_1PNPDE20041203_024351_000000612032_00347_14429_0018.N1	03-DEC-2004 02:43:51	Bright	61.000	13	87Alp Tau	0.86700	3800.0	122	14429	No
46	GOM_TRA_1PNPDE20041203_024531_000000422032_00347_14429_0019.N1	03-DEC-2004 02:45:31	Bright	41.500	146	25Eta Tau	2.8730	15200.	83	14429	No

47	GOM_TRA_1PNPDE20041203_024751_000000442032_00347_14429_0020.N1	03-DEC-2004 02:47:51	Bright	43.500	150	44Zet Per	2.8900	28000.	87	14429	No
48	GOM_TRA_1PNPDE20041203_025011_000000412032_00347_14429_0021.N1	03-DEC-2004 02:50:11	Bright	40.500	79	26Bet Per	2.3100	13100.	81	14429	No
49	GOM_TRA_1PNPDE20041203_025221_000000392032_00347_14429_0022.N1	03-DEC-2004 02:52:21	Bright	39.000	175	39Del Per	3.0100	19400.	78	14429	No
50	GOM_TRA_1PNPDE20041203_025345_000000392032_00347_14429_0023.N1	03-DEC-2004 02:53:45	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	14429	No

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



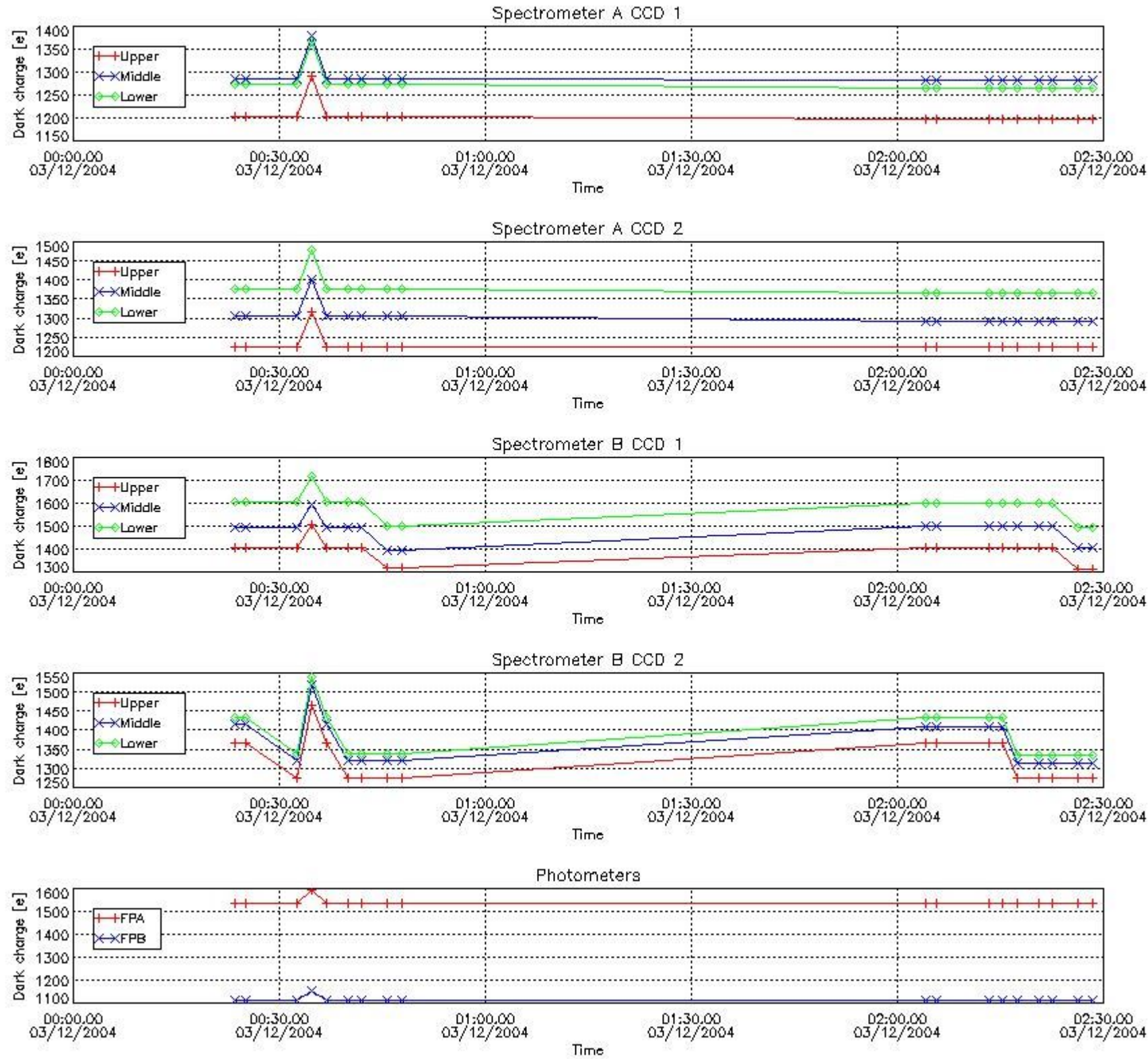
4. Overview of dark signal processing per product

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



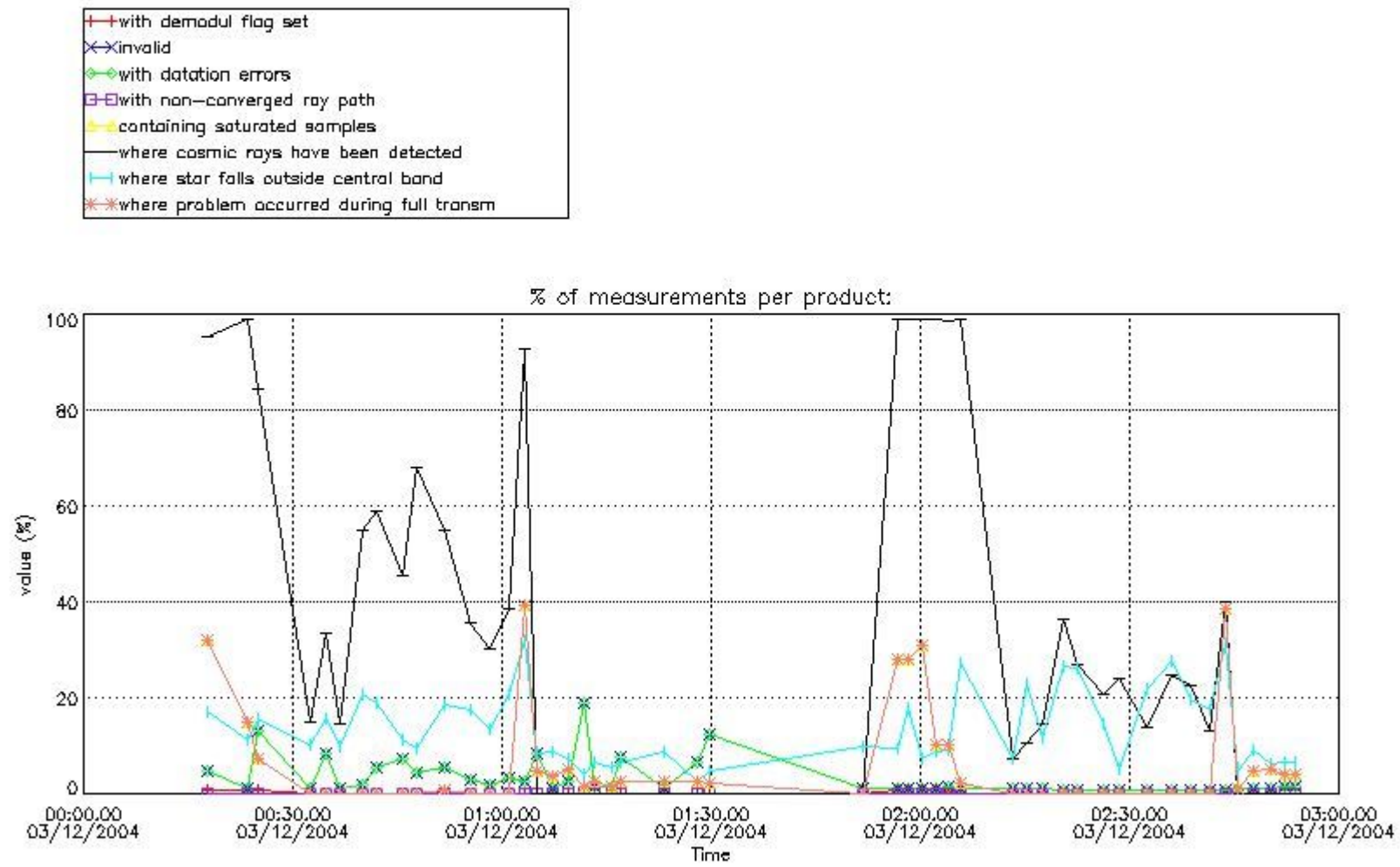
5. Demodulation flag and quality information monitoring

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.

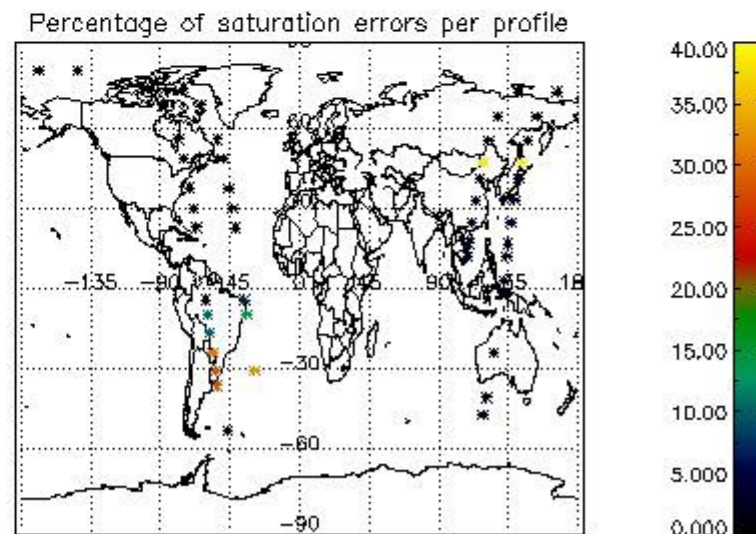
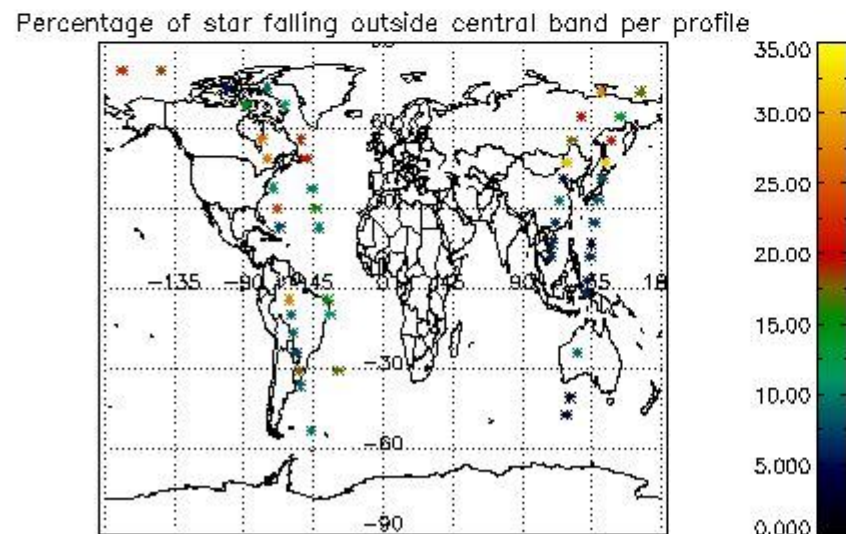
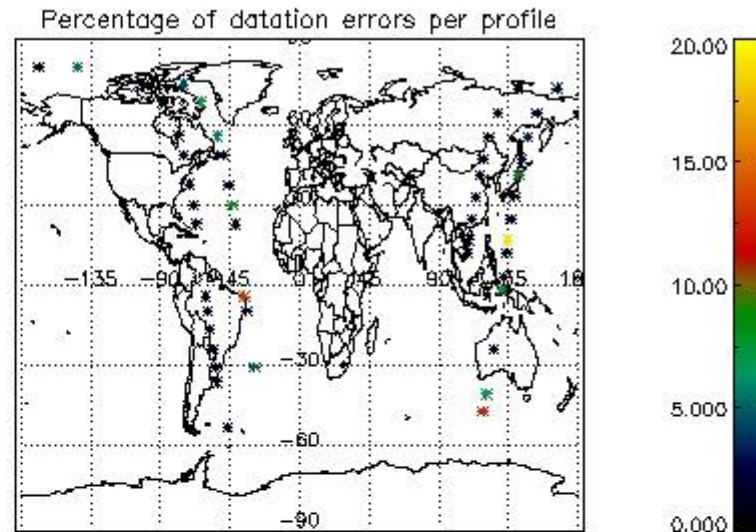
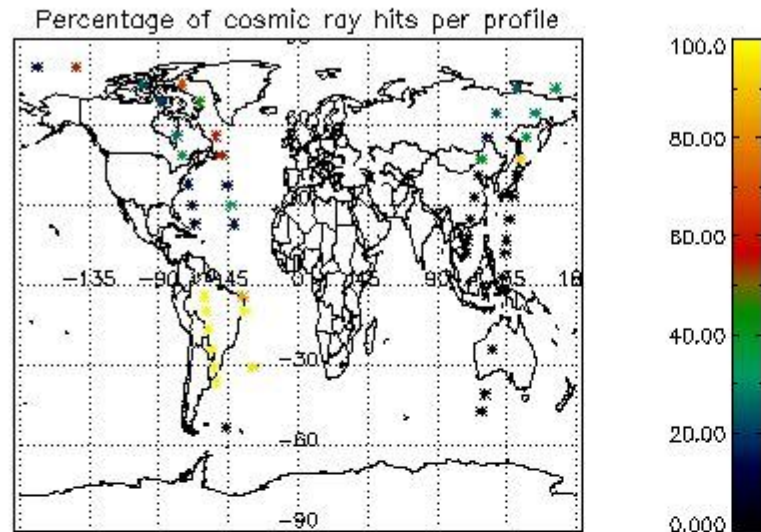
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.7347 %
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)



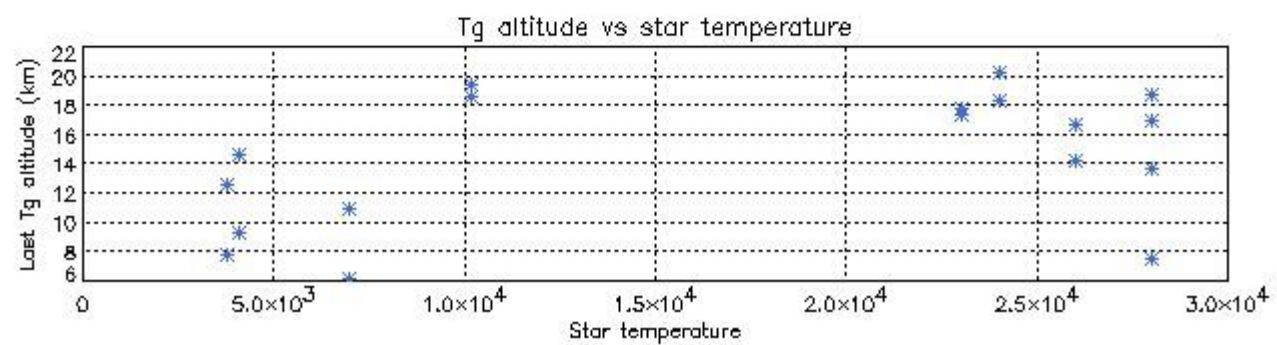
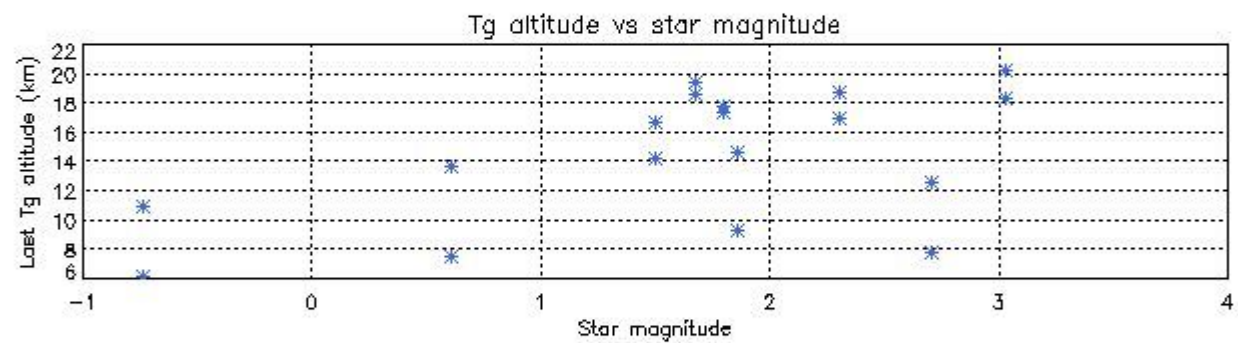
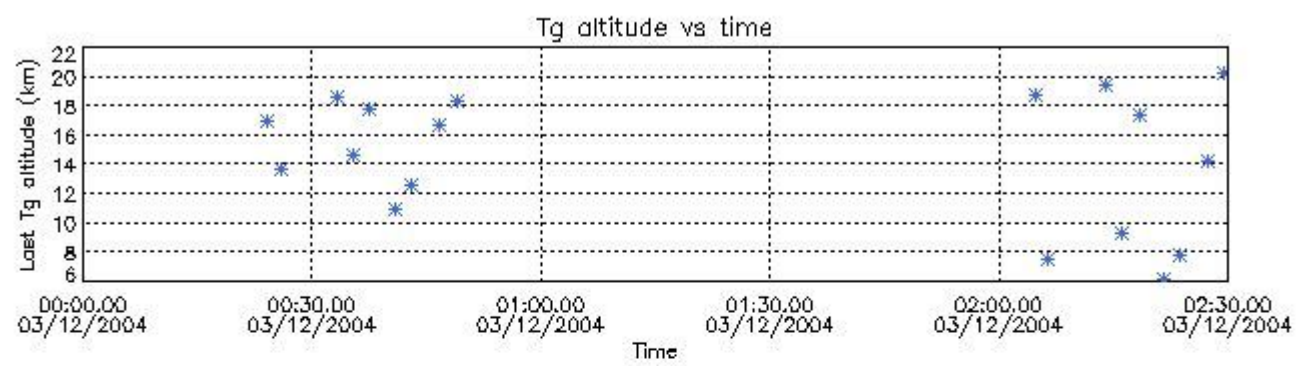
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.483	17.161	14.862
St. deviation:	4.4968	5.8680	3.5027
Maximum:	20.236	24.193	19.247
Minimum:	6.1371	5.3321	10.489
Number of data:	18.000	23.000	8.0000

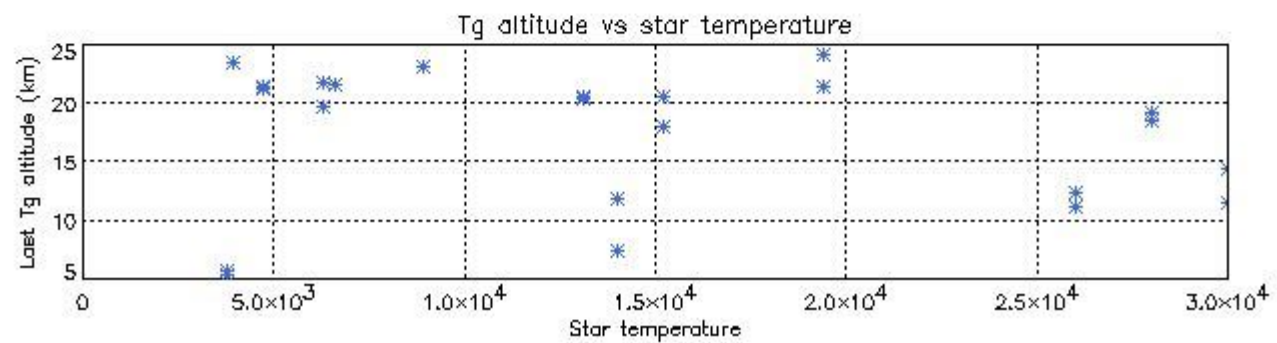
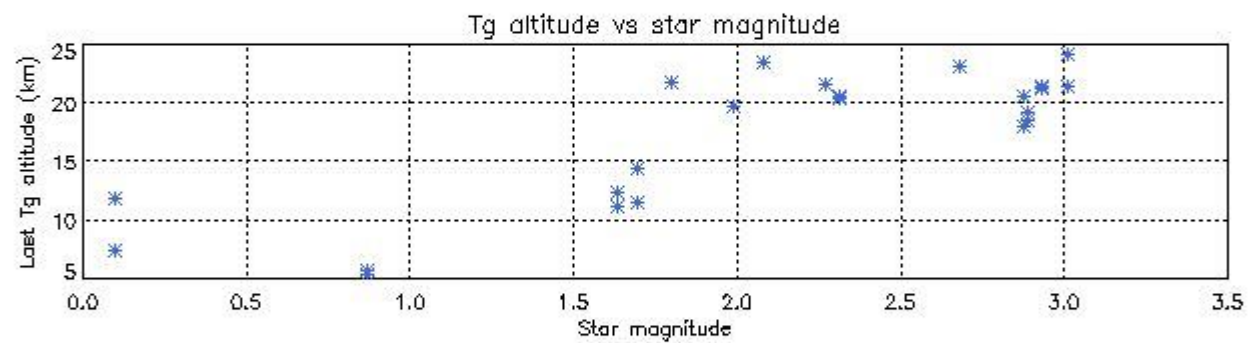
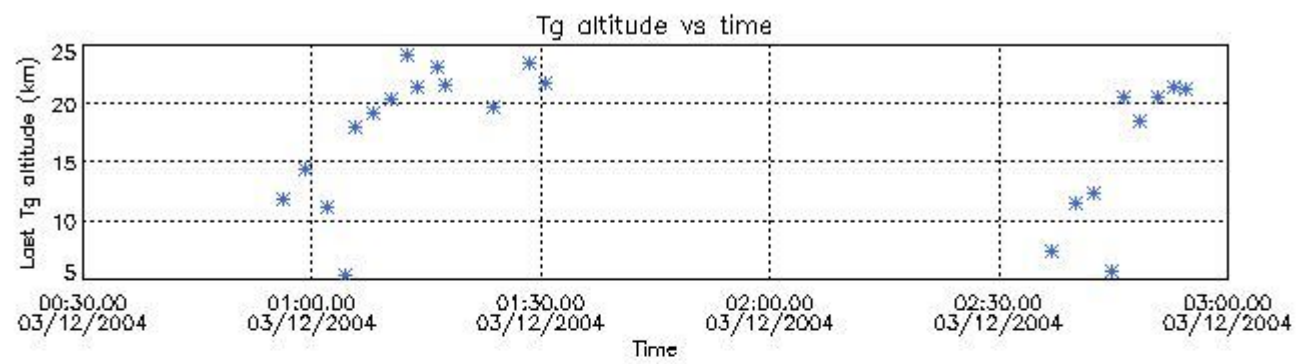
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



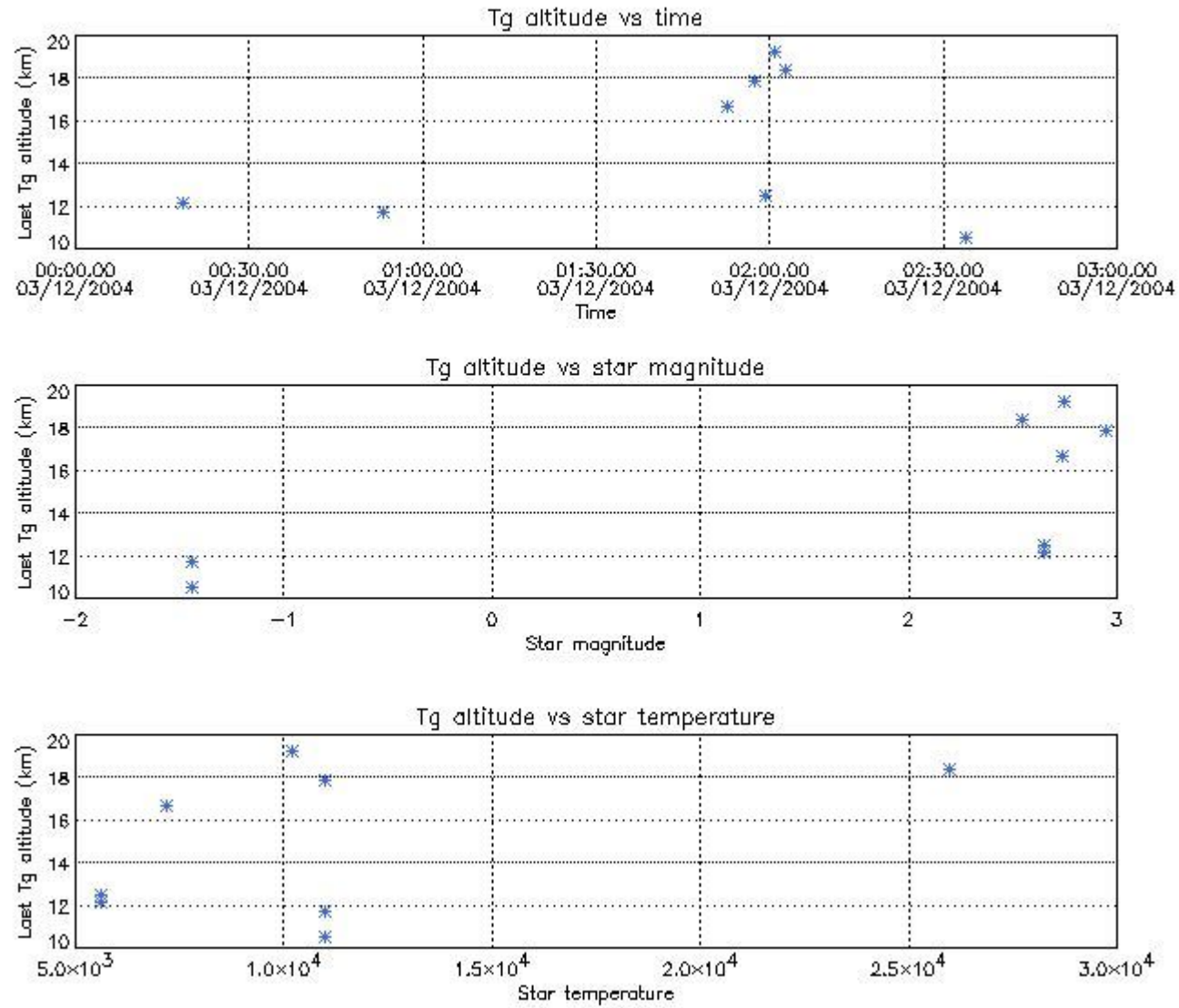
6.3 Plot for BRIGHT limb products

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

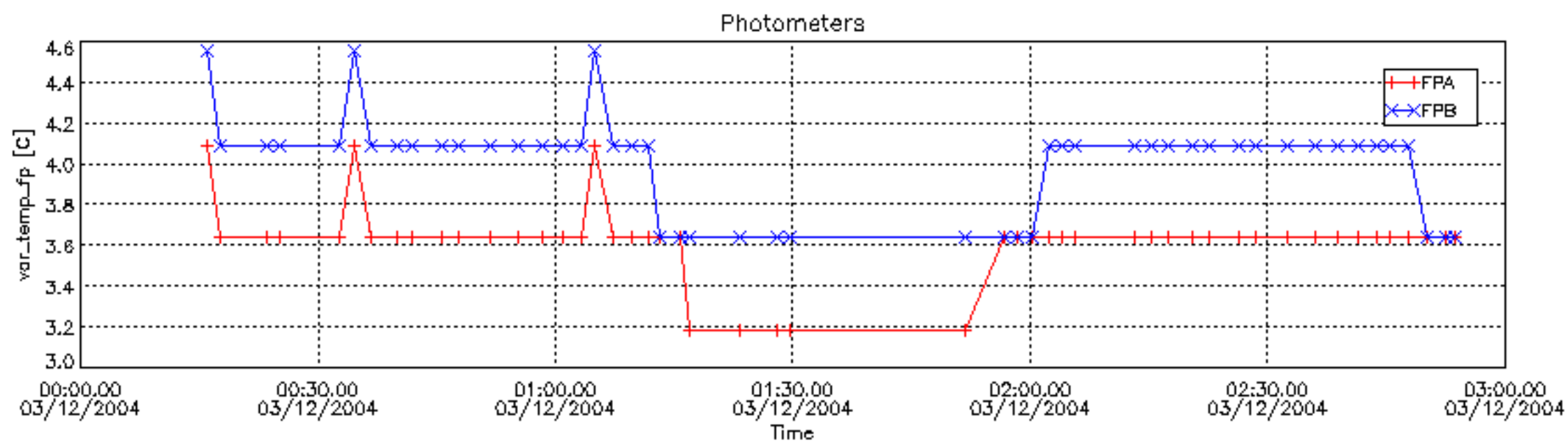
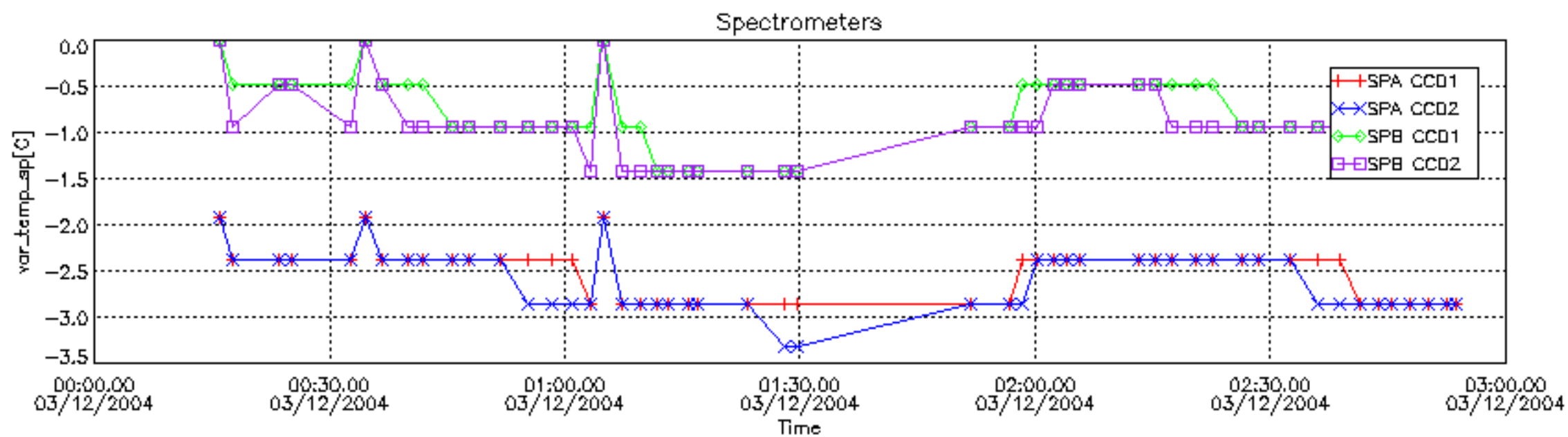
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

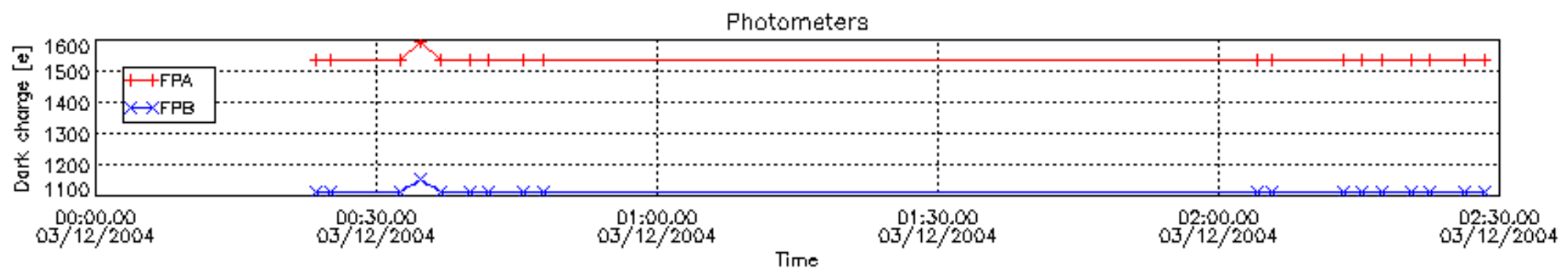
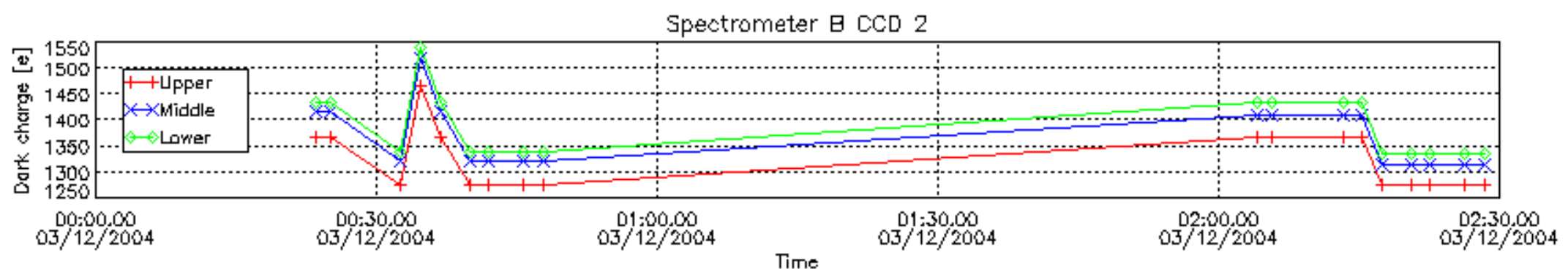
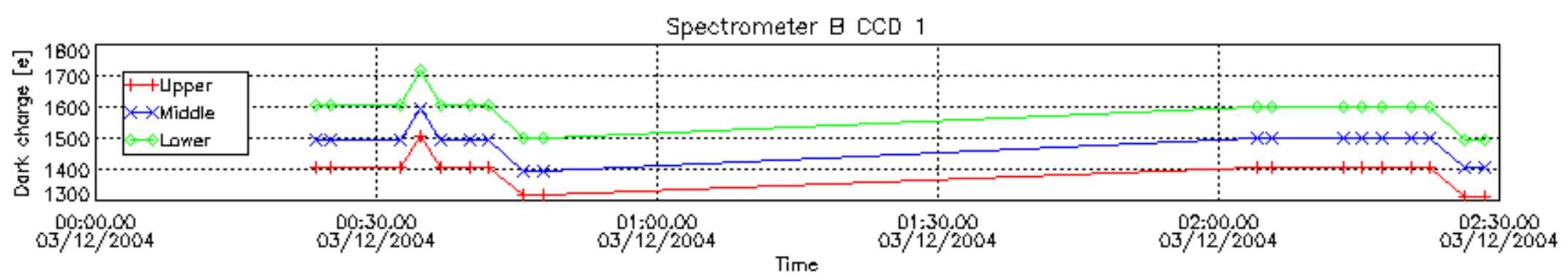
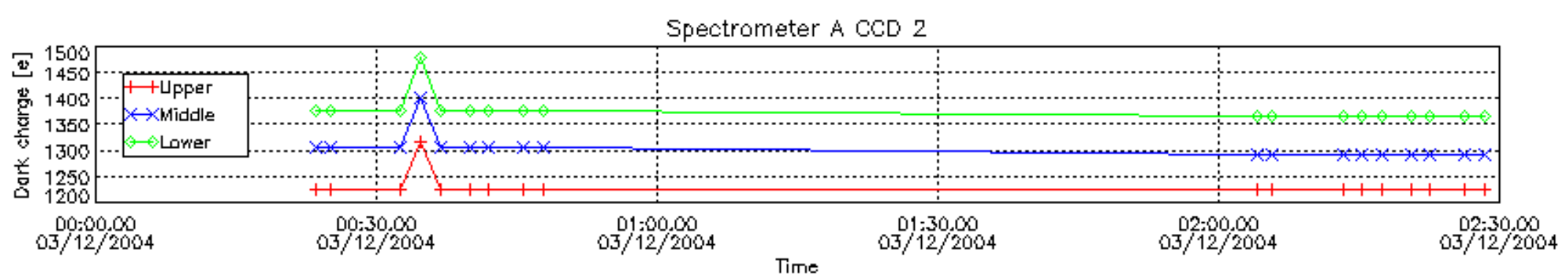
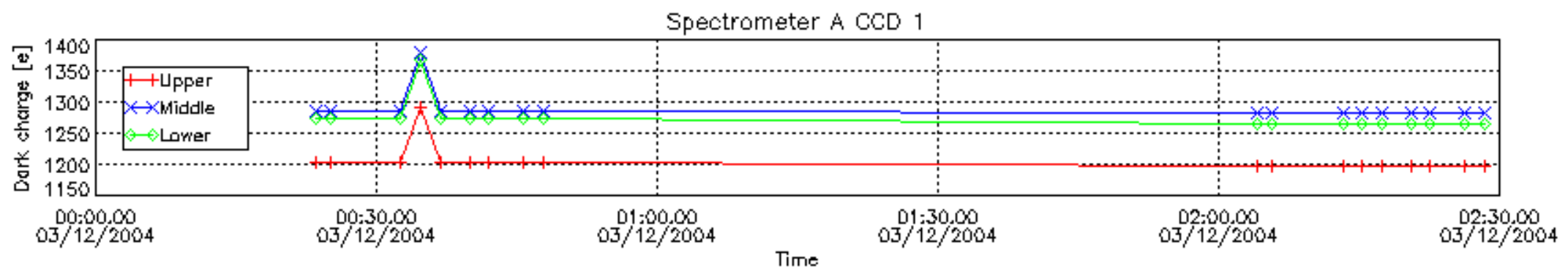
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.2	1447.6	1462.0	1447.6
St. deviation:	10.401	6.6804	7.7704	8.8234
Maximum:	4021.0	1498.0	1717.0	1517.0
Minimum:	1423.0	1403.0	1430.0	1417.0
Number of data:	23950.	23950.	27550.	27550.

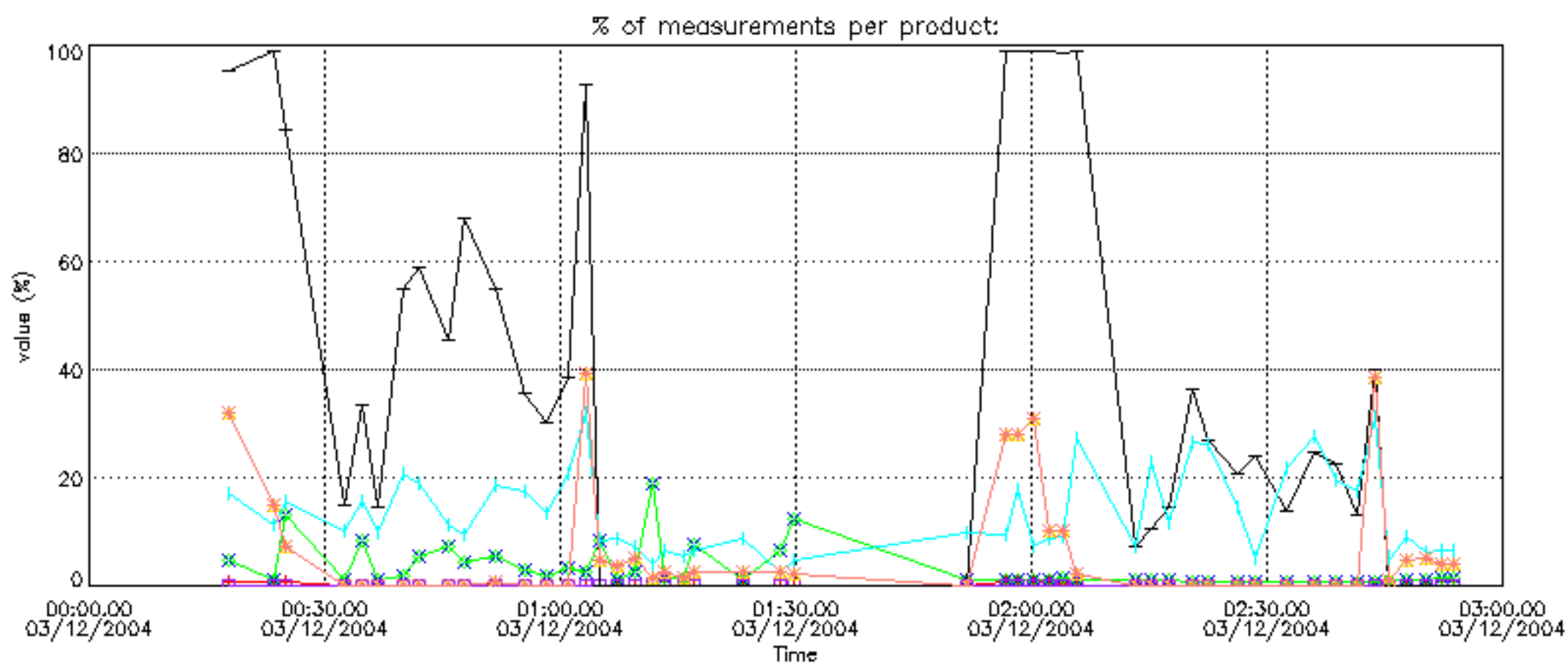
8. Auxiliary Data Files used for the production reported in section 2.2

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.

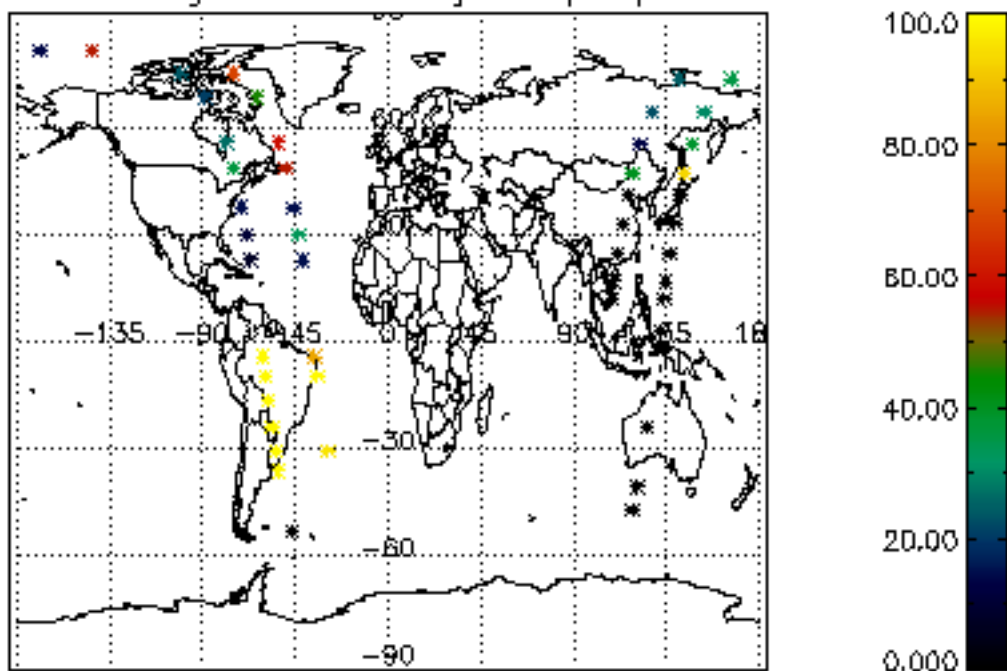
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	03-DEC-2004 00:16:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041129_135000_20041127_000000_20100101_000000	1	03-DEC-2004 00:16:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	03-DEC-2004 00:16:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-DEC-2004 00:16:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	03-DEC-2004 00:16:04
ECMWF_FILE	AUX_ECA_AXNECM20041203_070830_20041202_210000_20041203_090000	1	03-DEC-2004 00:16:04
ECMWF_FILE	AUX_ECF_AXNECM20041202_060858_20041202_210000_20041203_090000	27	03-DEC-2004 01:51:51
OPTIONAL_ECMWF_FILE	NOT USED	1	03-DEC-2004 00:16:04
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041202_223840_20041202_192428_20041212_205039	1	03-DEC-2004 00:16:04



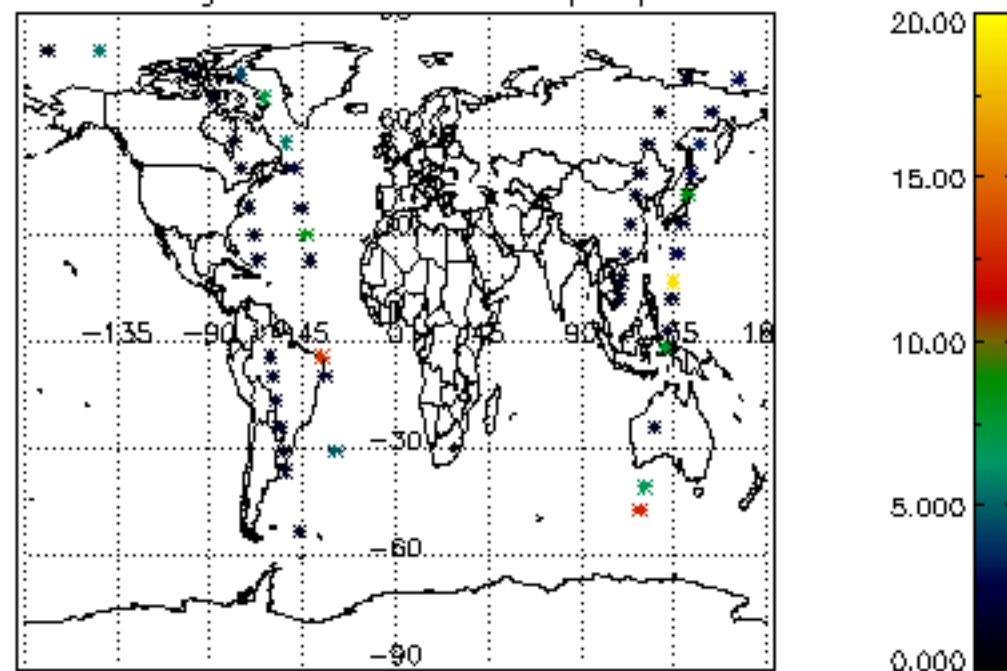




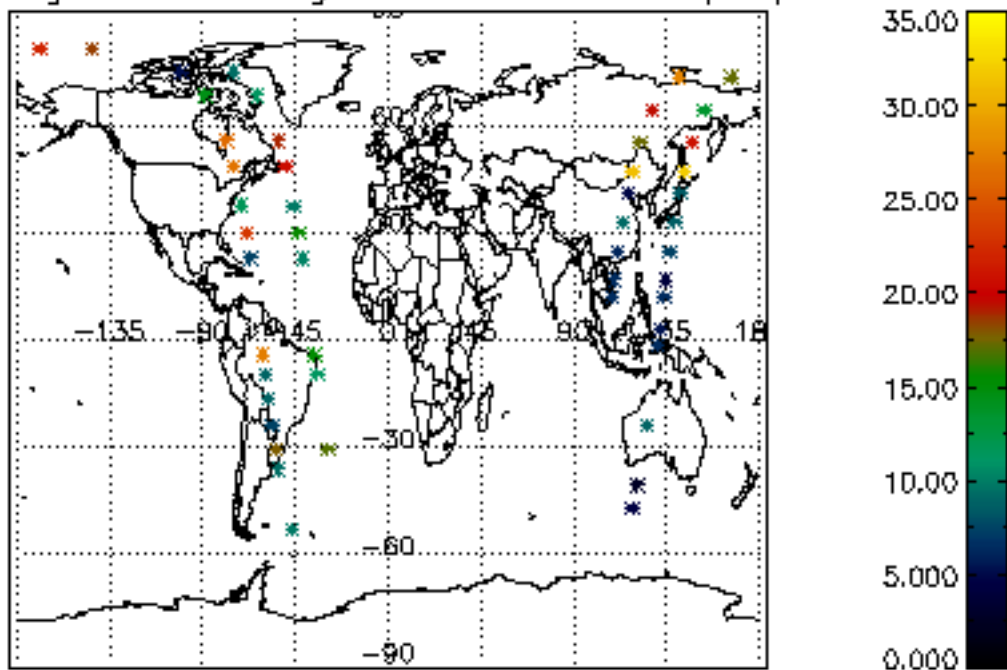
Percentage of cosmic ray hits per profile



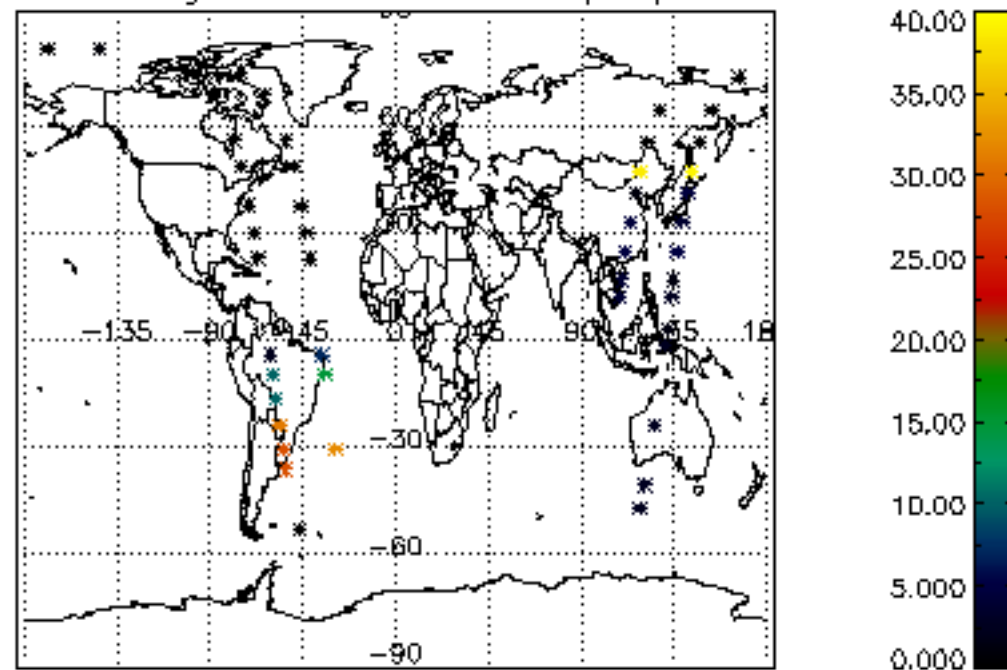
Percentage of datation errors per profile



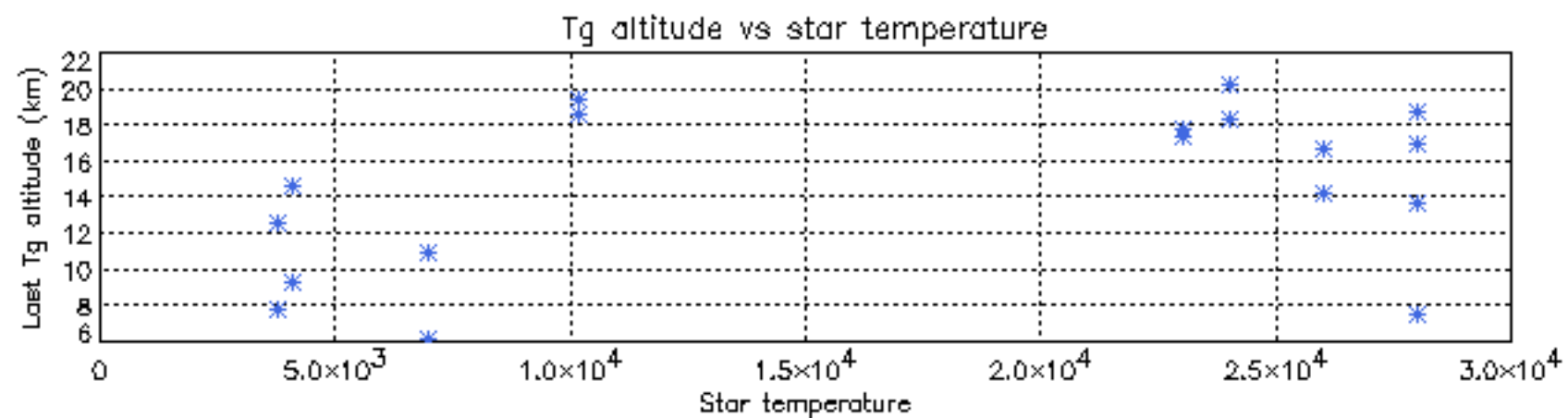
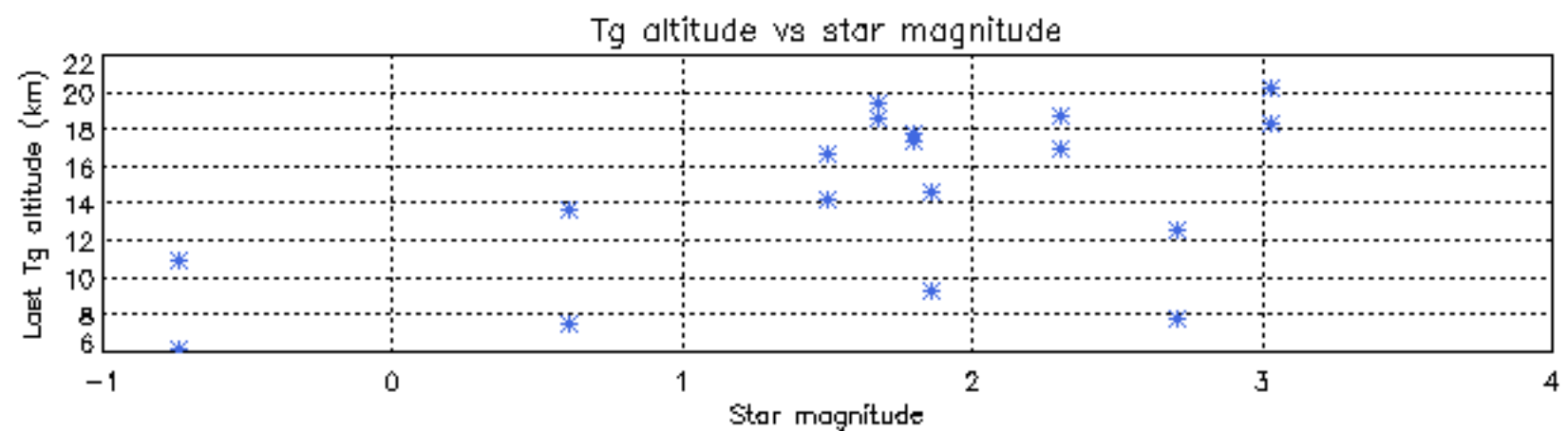
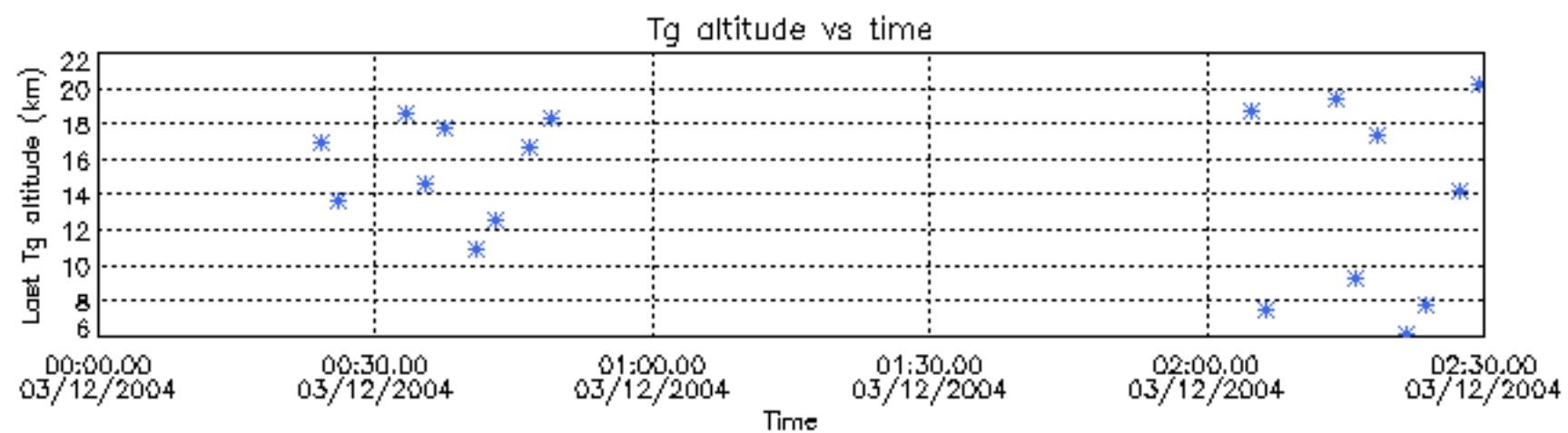
Percentage of star falling outside central band per profile



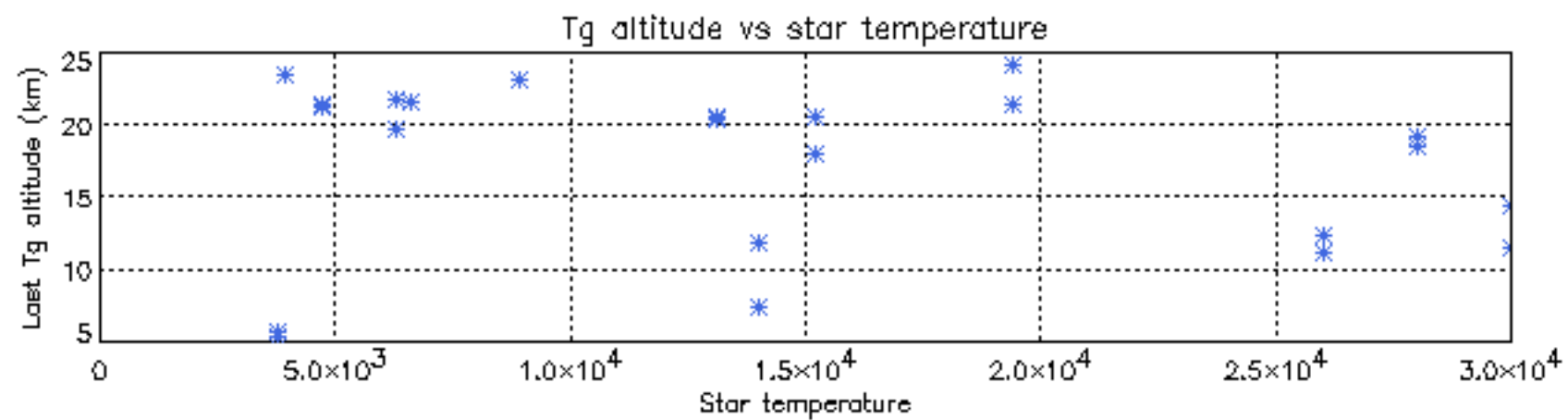
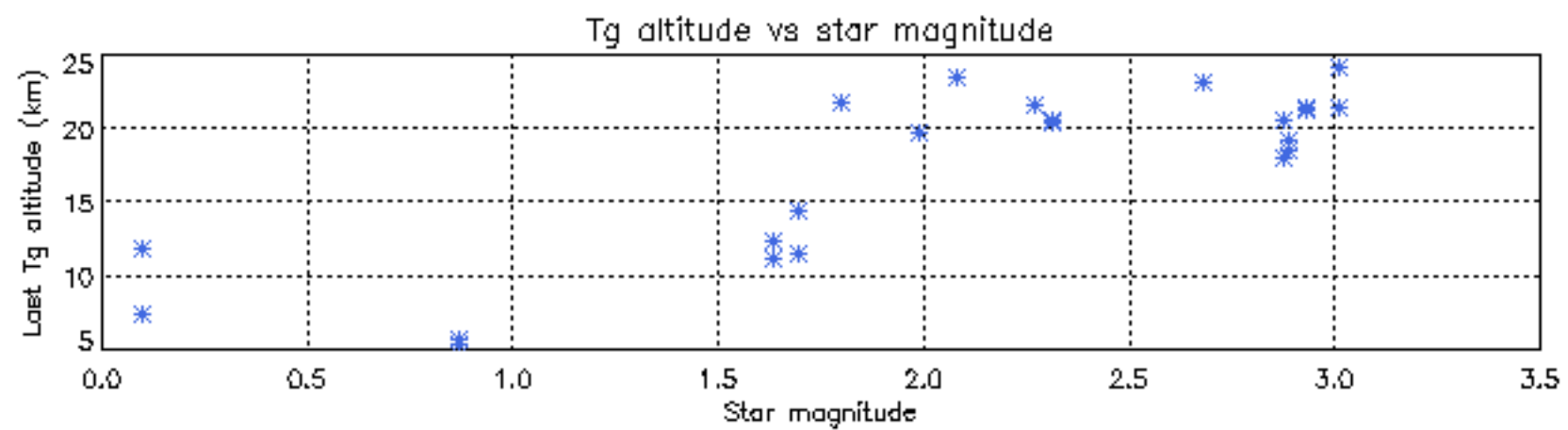
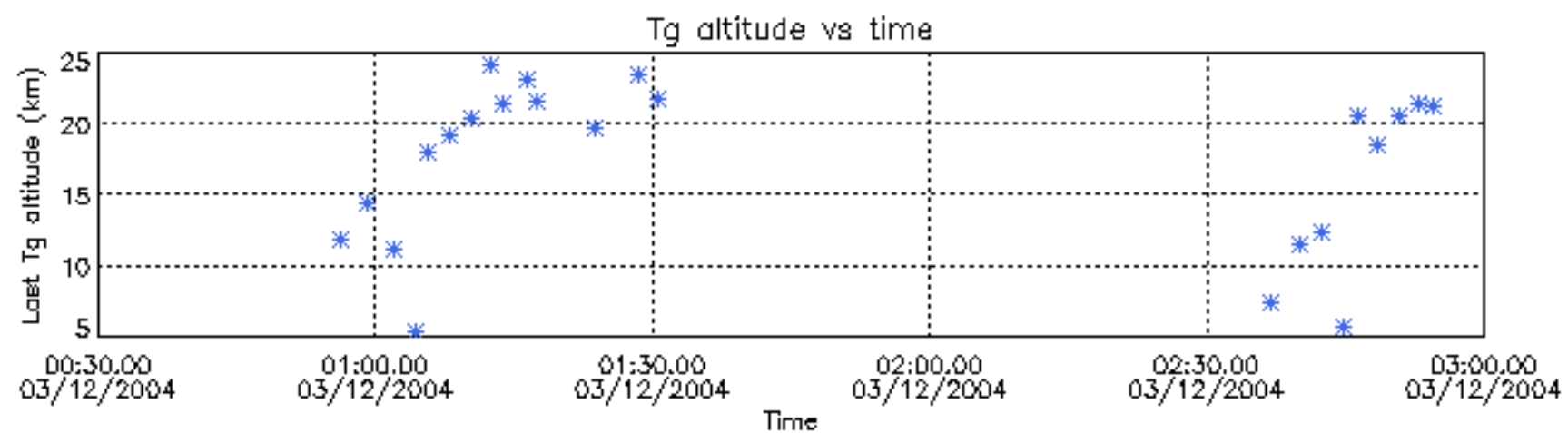
Percentage of saturation errors per profile



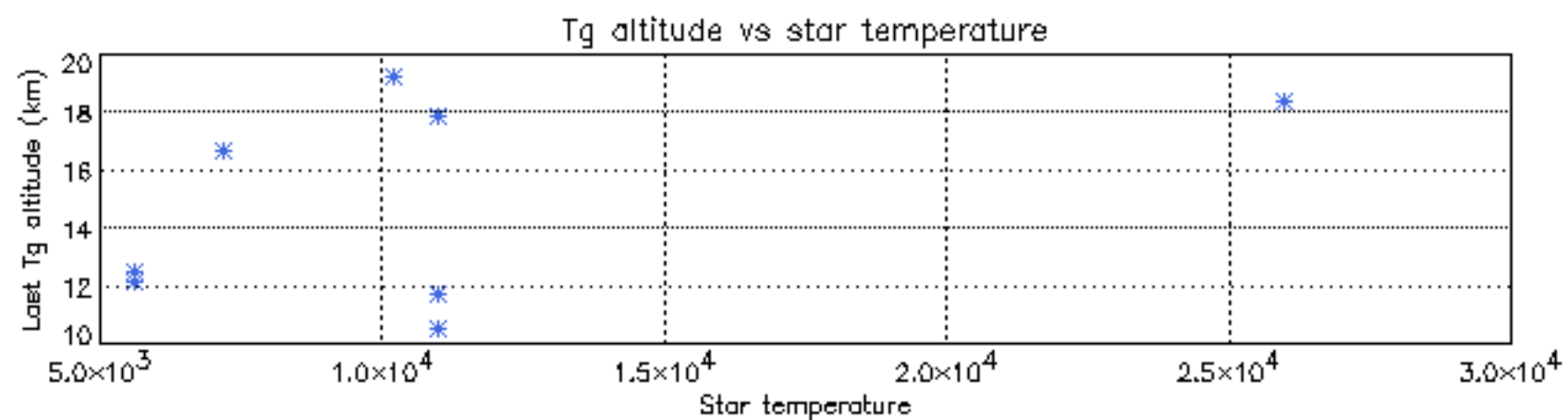
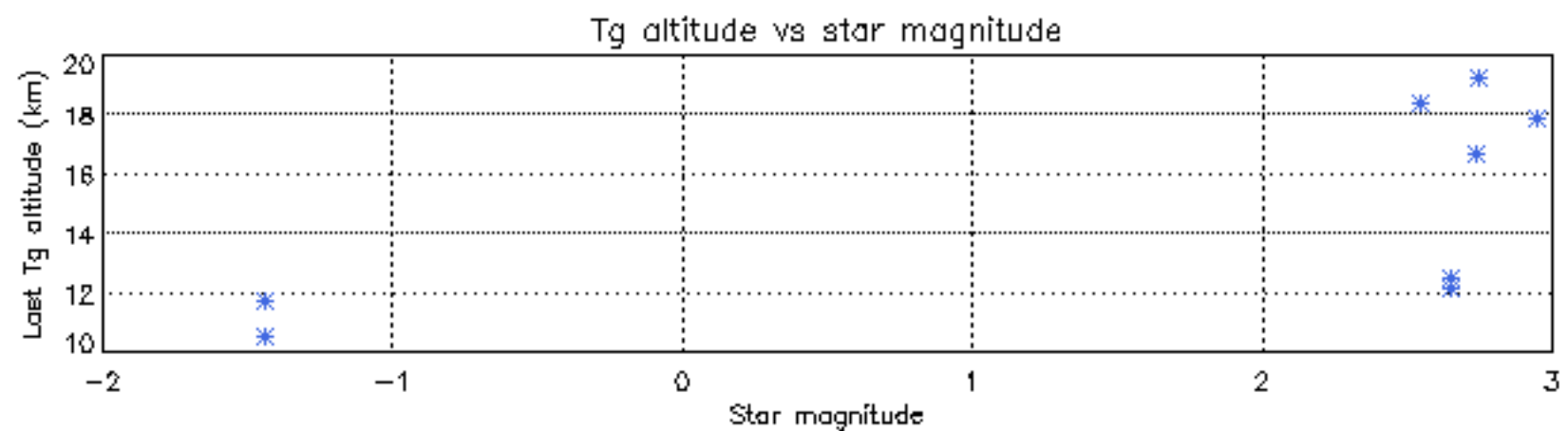
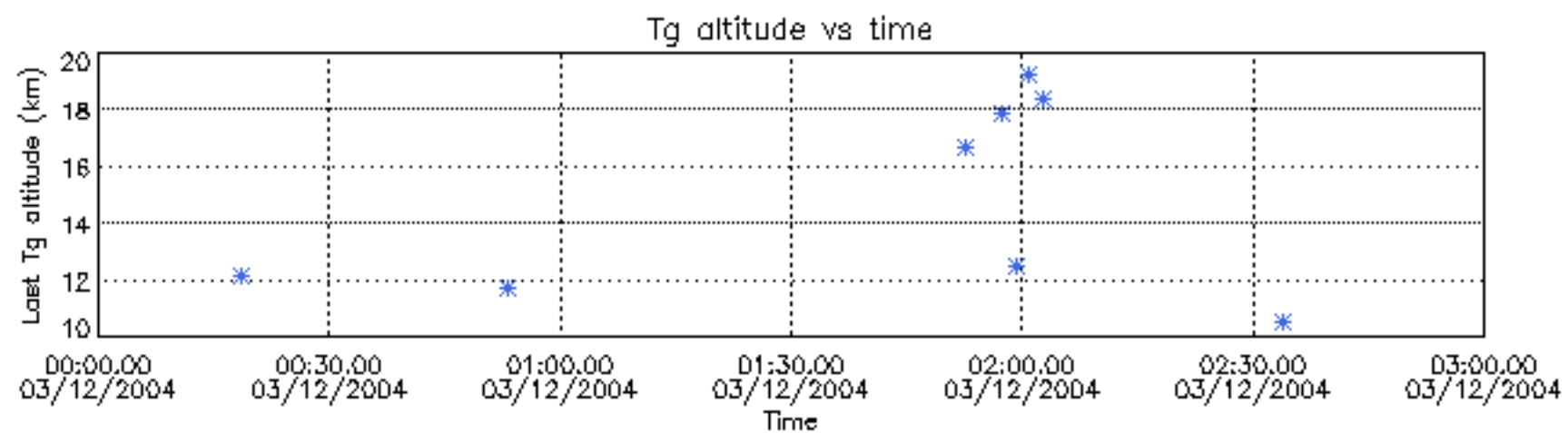
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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

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

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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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1; -2338.3; 01-DEC-2004 04:11:43; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;14401
 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
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16; 207.0; 01-DEC-2004 06:34:45; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0;14403
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
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21; 923.7; 01-DEC-2004 06:46:41; Dark ; 74.0; 117; Pi Pup ; 2.71; 3800;occ; 148; 0;14403
22; 1150.2; 01-DEC-2004 06:50:28; Dark ; 71.0; 23; 21Eps CMa ; 1.50; 26000;occ; 142; 0;14403
23; 1278.7; 01-DEC-2004 06:52:36; Dark ; 74.0; 179; 240mi2CMa ; 3.03; 24000;occ; 148; 0;14403
24; 1529.5; 01-DEC-2004 06:56:47; Dark ; 98.5; 1; 9Alp CMa ; -1.44; 11000;occ; 197; 0;14403
25; 1750.1; 01-DEC-2004 07:00:28; Dark ; 68.0; 7; 19Bet Ori ; 0.10; 14000;occ; 136; 0;14403
26; 1928.3; 01-DEC-2004 07:03:26; Dark ; 60.5; 30; 46Eps Ori ; 1.69; 30000;occ; 121; 0;14403
27; 2091.0; 01-DEC-2004 07:06:08; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;14403
28; 2227.7; 01-DEC-2004 07:08:25; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;14403
29; 2326.2; 01-DEC-2004 07:10:04; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;14403
30; 2467.2; 01-DEC-2004 07:12:25; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;14403
31; 2603.3; 01-DEC-2004 07:14:41; Bright; 38.5; 79; 26Bet Per ; 2.31; 13100;occ; 77; 0;14403
32; 2735.1; 01-DEC-2004 07:16:53; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;14403
33; 2816.2; 01-DEC-2004 07:18:14; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;14403
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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4;-1899.0; 01-DEC-2004 07:40:14; Bright; 38.5; 39; 85Eta UMA ; 1.85; 24000;occ; 77; 0;14403
5;-1723.4; 01-DEC-2004 07:43:10; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;14403
6;-1543.2; 01-DEC-2004 07:46:10; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;14403
7;-1390.7; 01-DEC-2004 07:48:43; Bright; 35.5; 3; 16Alp Boo ;-0.05; 4250;occ; 71; 0;14403
8;-1168.5; 01-DEC-2004 07:52:25; Bright; 75.5; 96; 68Del Leo ; 2.56; 9300;occ; 151; 0;14403
9; -913.7; 01-DEC-2004 07:56:40; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;14403
10; -626.7; 01-DEC-2004 08:01:27; Dark ; 49.0; 163; 7Del Crv ; 2.94; 11000;occ; 98; 0;14403
11; -529.1; 01-DEC-2004 08:03:04; Dark ; 47.5; 106; 9Bet Crv ; 2.65; 5600;occ; 95; 0;14403
12; -411.8; 01-DEC-2004 08:05:02; Dark ; 40.5; 123; Iot Cen ; 2.75; 10200;occ; 81; 0;14403
13; -171.5; 01-DEC-2004 08:09:02; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;14403
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17; 488.2; 01-DEC-2004 08:20:02; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;14404
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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
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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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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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36; 4646.9; 01-DEC-2004 22:54:08; Bright; 37.0; 3; 16Alp Boo ; -0.05; 4250;occ; 74; 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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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
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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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13;	-2337.9;	01-DEC-2004	15:55:55;	Bright;	;	41.0;	60;	7Bet UMi	;	2.08;	3950;occ;	82;	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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13;	824.1;	29-DEC-2004	22:10:27;	Dark	;	65.5;	65;	Lam Vel	;	2.20;	4400;occ;	131;	0;	14813
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23;	2237.1;	29-DEC-2004	22:34:00;	Dark	;	51.5;	44;	24Gam Gem	;	1.93;	11000;occ;	103;	0;	14813
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25;	2470.6;	29-DEC-2004	22:37:54;	Bright;	;	39.5;	114;	3Iot Aur	;	2.69;	4600;occ;	79;	0;	14813
26;	2572.7;	29-DEC-2004	22:39:36;	Bright;	;	40.0;	107;	37The Aur	;	2.65;	11000;occ;	80;	0;	14813
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31;	3610.7;	29-DEC-2004	22:56:54;	Bright;	;	51.5;	36;	50Alp UMA	;	1.80;	6300;occ;	103;	0;	14813
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13;	970.0;	29-DEC-2004	23:53:29;	Dark	;	53.0;	2;	Alp Car	;	-0.74;	7000;occ;	106;	0;	14814
14;	1158.9;	29-DEC-2004	23:56:38;	Dark	;	53.5;	117;	Pi Pup	;	2.71;	3800;occ;	107;	0;	14814
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16;	1423.6;	30-DEC-2004	00:01:03;	Dark	;	51.0;	179;	240mi2CMA	;	3.03;	24000;occ;	102;	0;	14814
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19;	1875.9;	30-DEC-2004	00:08:35;	Dark	;	43.5;	30;	46Eps Ori	;	1.69;	30000;occ;	87;	0;	14814
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27;	2791.8;	30-DEC-2004	00:23:51;	Bright;	;	39.0;	35;	33Alp Per	;	1.79;	6250;occ;	78;	0;	14814
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