

GOMOS Daily Report 22-DEC-2004

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0 products arrived in PCF during actual month \(see template \[here\]\(#\)\)](#)

[2.2 Level 1 products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Statistics on SATU Noise Equivalent Angle](#)

[8. Auxiliary Data Files used for the production reported in section 2.2](#)

[Level 2 products](#)

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	25DEC2004 05:32:09

Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-3D (22DEC2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (23DEC2004 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)

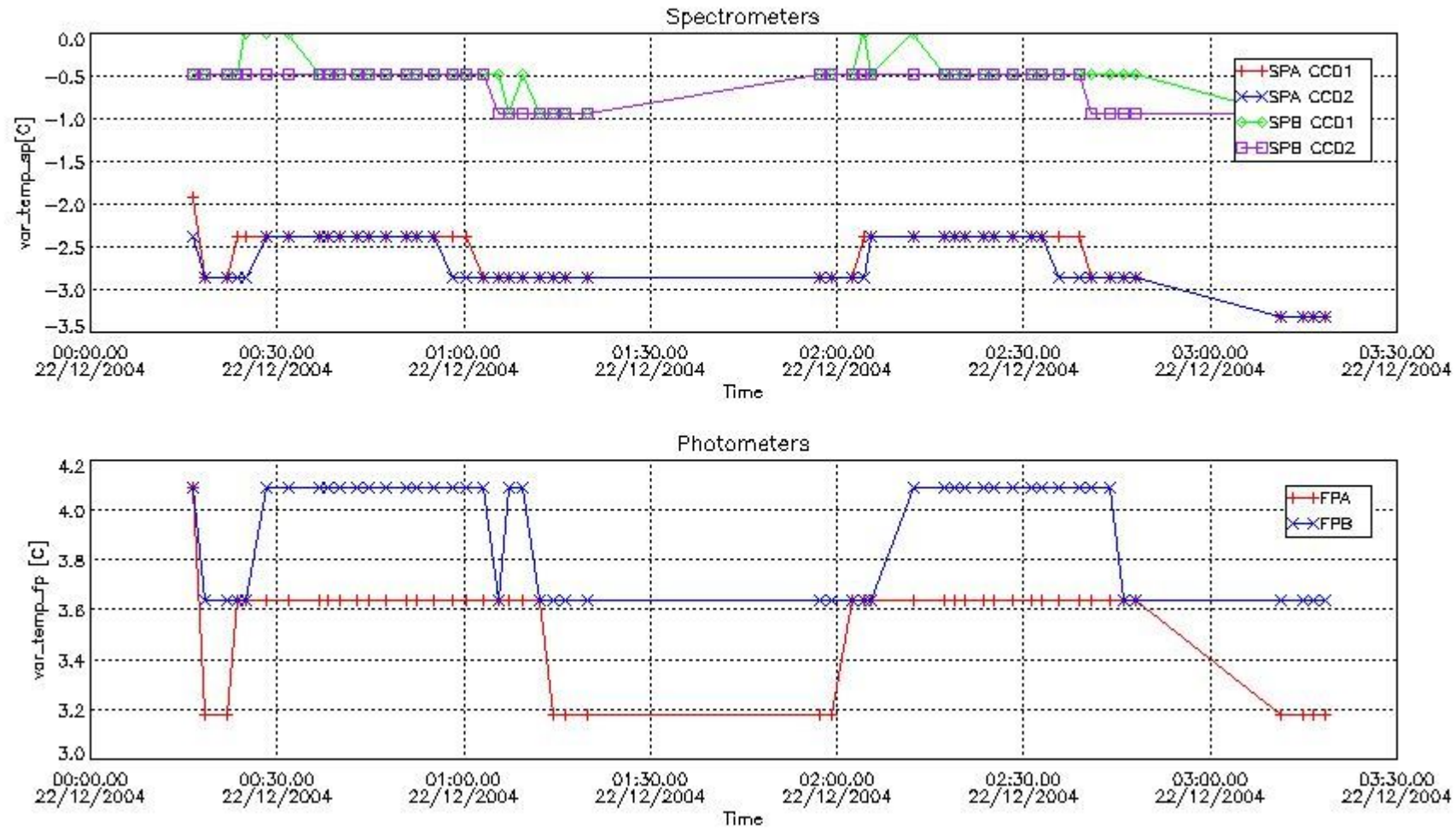
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20041222_001630_000000392033_00116_14699_0000.N1	22-DEC-2004 00:16:30	Twilight	38.500	122	9Alp2Lib	2.7470	9700.0	77	14699	Yes
2	GOM_TRA_1PNPDE20041222_001827_000000532033_00116_14699_0001.N1	22-DEC-2004 00:18:27	Twilight	52.500	15	67Alp Vir	0.97600	28000.	105	14699	No
3	GOM_TRA_1PNPDE20041222_002155_000000532033_00116_14699_0002.N1	22-DEC-2004 00:21:55	Twilight	53.000	169	46Gam Hya	2.9910	4700.0	106	14699	No
4	GOM_TRA_1PNPDE20041222_002344_000000402033_00116_14699_0003.N1	22-DEC-2004 00:23:44	Twilight	40.000	81	Eta Cen	2.3560	28000.	80	14699	No
5	GOM_TRA_1PNPDE20041222_002456_000000402033_00116_14699_0004.N1	22-DEC-2004 00:24:56	Twilight	40.000	78	Alp Lup	2.3040	28000.	80	14699	No
6	GOM_TRA_1PNPDE20041222_002823_000000442033_00116_14699_0005.N1	22-DEC-2004 00:28:23	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	14699	No
7	GOM_TRA_1PNPDE20041222_003144_000000492033_00117_14700_0006.N1	22-DEC-2004 00:31:44	Dark	49.000	12	Alp1Cru	0.77500	30000.	98	14700	No
8	GOM_TRA_1PNPDE20041222_003642_000000412033_00117_14700_0007.N1	22-DEC-2004 00:36:42	Dark	40.500	159	Ups Car	2.9200	7200.0	81	14700	No
9	GOM_TRA_1PNPDE20041222_003811_000000452033_00117_14700_0008.N1	22-DEC-2004 00:38:11	Dark	45.000	71	Iot Car	2.2460	7700.0	90	14700	No
10	GOM_TRA_1PNPDE20041222_003959_000000482033_00117_14700_0009.N1	22-DEC-2004 00:39:59	Dark	47.500	41	Eps Car	1.8600	4100.0	95	14700	No
11	GOM_TRA_1PNPDE20041222_004257_000000532033_00117_14700_0010.N1	22-DEC-2004 00:42:57	Dark	52.500	34	Gam2Vel	1.7930	23000.	105	14700	No
12	GOM_TRA_1PNPDE20041222_004438_000000542033_00117_14700_0011.N1	22-DEC-2004 00:44:38	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	14700	No
13	GOM_TRA_1PNPDE20041222_004734_000000532033_00117_14700_0012.N1	22-DEC-2004 00:47:34	Dark	52.500	117	Pi Pup	2.7060	3800.0	105	14700	No
14	GOM_TRA_1PNPDE20041222_005041_000000522033_00117_14700_0013.N1	22-DEC-2004 00:50:41	Dark	51.500	23	21Eps CMa	1.5020	26000.	103	14700	No
15	GOM_TRA_1PNPDE20041222_005221_000000522033_00117_14700_0014.N1	22-DEC-2004 00:52:21	Dark	52.000	179	24Omi2CMa	3.0320	24000.	104	14700	No
16	GOM_TRA_1PNPDE20041222_005507_000000632033_00117_14700_0015.N1	22-DEC-2004 00:55:07	Twilight	62.500	1	9Alp CMa	-1.4400	11000.	125	14700	No
17	GOM_TRA_1PNPDE20041222_005815_000000512033_00117_14700_0016.N1	22-DEC-2004 00:58:15	Bright	50.500	7	19Bet Ori	0.10000	14000.	101	14700	No
18	GOM_TRA_1PNPDE20041222_010019_000000522033_00117_14700_0017.N1	22-DEC-2004 01:00:19	Bright	51.500	30	46Eps Ori	1.6940	30000.	103	14700	No
19	GOM_TRA_1PNPDE20041222_010312_000000612033_00117_14700_0018.N1	22-DEC-2004 01:03:12	Bright	61.000	14	58Alp Ori	0.87000	3000.0	122	14700	No
20	GOM_TRA_1PNPDE20041222_010528_000000522033_00117_14700_0019.N1	22-DEC-2004 01:05:28	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	14700	No
21	GOM_TRA_1PNPDE20041222_010717_000000432033_00117_14700_0020.N1	22-DEC-2004 01:07:17	Bright	42.500	176	23Zet Tau	3.0200	22000.	85	14700	No
22	GOM_TRA_1PNPDE20041222_010921_000000452033_00117_14700_0021.N1	22-DEC-2004 01:09:21	Bright	44.500	28	12Bet Tau	1.6500	15200.	89	14700	No
23	GOM_TRA_1PNPDE20041222_011211_000000392033_00117_14700_0022.N1	22-DEC-2004 01:12:11	Bright	38.500	149	45Eps Per	2.8880	30000.	77	14700	No
24	GOM_TRA_1PNPDE20041222_011425_000000392033_00117_14700_0023.N1	22-DEC-2004 01:14:25	Bright	38.500	175	39Del Per	3.0100	19400.	77	14700	No
25	GOM_TRA_1PNPDE20041222_011622_000000392033_00117_14700_0024.N1	22-DEC-2004 01:16:22	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	14700	No
26	GOM_TRA_1PNPDE20041222_011953_000000392033_00117_14700_0025.N1	22-DEC-2004 01:19:53	Bright	38.500	110	37Del Cas	2.6780	8900.0	77	14700	No
27	GOM_TRA_1PNPDE20041222_015706_000000412033_00117_14700_0000.N1	22-DEC-2004 01:57:06	Twilight	41.000	122	9Alp2Lib	2.7470	9700.0	82	14700	No
28	GOM_TRA_1PNPDE20041222_015904_000000572033_00117_14700_0001.N1	22-DEC-2004 01:59:04	Twilight	57.000	15	67Alp Vir	0.97600	28000.	114	14700	No
29	GOM_TRA_1PNPDE20041222_020234_000000542033_00117_14700_0002.N1	22-DEC-2004 02:02:34	Twilight	54.000	169	46Gam Hya	2.9910	4700.0	108	14700	No
30	GOM_TRA_1PNPDE20041222_020421_000000432033_00117_14700_0003.N1	22-DEC-2004 02:04:21	Twilight	42.500	81	Eta Cen	2.3560	28000.	85	14700	No
31	GOM_TRA_1PNPDE20041222_020533_000000412033_00117_14700_0004.N1	22-DEC-2004 02:05:33	Twilight	41.000	78	Alp Lup	2.3040	28000.	82	14700	No
32	GOM_TRA_1PNPDE20041222_021220_000000432033_00118_14701_0005.N1	22-DEC-2004 02:12:20	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	14701	No
33	GOM_TRA_1PNPDE20041222_021717_000000442033_00118_14701_0006.N1	22-DEC-2004 02:17:17	Dark	43.500	159	Ups Car	2.9200	7200.0	87	14701	No
34	GOM_TRA_1PNPDE20041222_021848_000000472033_00118_14701_0007.N1	22-DEC-2004 02:18:48	Dark	46.500	71	Iot Car	2.2460	7700.0	93	14701	No
35	GOM_TRA_1PNPDE20041222_022037_000000532033_00118_14701_0008.N1	22-DEC-2004 02:20:37	Dark	52.500	41	Eps Car	1.8600	4100.0	105	14701	No
36	GOM_TRA_1PNPDE20041222_022333_000000512033_00118_14701_0009.N1	22-DEC-2004 02:23:33	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	14701	No
37	GOM_TRA_1PNPDE20041222_022515_000000482033_00118_14701_0010.N1	22-DEC-2004 02:25:15	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	14701	No
38	GOM_TRA_1PNPDE20041222_022812_000000502033_00118_14701_0011.N1	22-DEC-2004 02:28:12	Dark	50.000	117	Pi Pup	2.7060	3800.0	100	14701	No
39	GOM_TRA_1PNPDE20041222_023117_000000512033_00118_14701_0012.N1	22-DEC-2004 02:31:17	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	14701	No
40	GOM_TRA_1PNPDE20041222_023257_000000532033_00118_14701_0013.N1	22-DEC-2004 02:32:57	Dark	52.500	179	24Omi2CMa	3.0320	24000.	105	14701	No
41	GOM_TRA_1PNPDE20041222_023543_000000632033_00118_14701_0014.N1	22-DEC-2004 02:35:43	Twilight	63.000	1	9Alp CMa	-1.4400	11000.	126	14701	No
42	GOM_TRA_1PNPDE20041222_023851_000000512033_00118_14701_0015.N1	22-DEC-2004 02:38:51	Bright	51.000	7	19Bet Ori	0.10000	14000.	102	14701	No
43	GOM_TRA_1PNPDE20041222_024055_000000522033_00118_14701_0016.N1	22-DEC-2004 02:40:55	Bright	51.500	30	46Eps Ori	1.6940	30000.	103	14701	No
44	GOM_TRA_1PNPDE20041222_024348_000000612033_00118_14701_0017.N1	22-DEC-2004 02:43:48	Bright	61.000	14	58Alp Ori	0.87000	3000.0	122	14701	No
45	GOM_TRA_1PNPDE20041222_024606_000000472033_00118_14701_0018.N1	22-DEC-2004 02:46:06	Bright	46.500	13	87Alp Tau	0.86700	3800.0	93	14701	No
46	GOM_TRA_1PNPDE20041222_024753_000000432033_00118_14701_0019.N1	22-DEC-2004 02:47:53	Bright	42.500	176	23Zet Tau	3.0200	22000.	85	14701	No

47	GOM_TRA_1PNPDE20041222_031120_00000412033_00118_14701_0000.N1	22-DEC-2004 03:11:20	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	14701	No
48	GOM_TRA_1PNPDE20041222_031449_00000392033_00118_14701_0001.N1	22-DEC-2004 03:14:49	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	14701	No
49	GOM_TRA_1PNPDE20041222_031625_00000422033_00118_14701_0002.N1	22-DEC-2004 03:16:25	Bright	41.500	55	79Zet UMa	2.0600	10200.	83	14701	No
50	GOM_TRA_1PNPDE20041222_031828_00000502033_00118_14701_0003.N1	22-DEC-2004 03:18:28	Bright	49.500	39	85Eta UMa	1.8540	24000.	99	14701	No

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



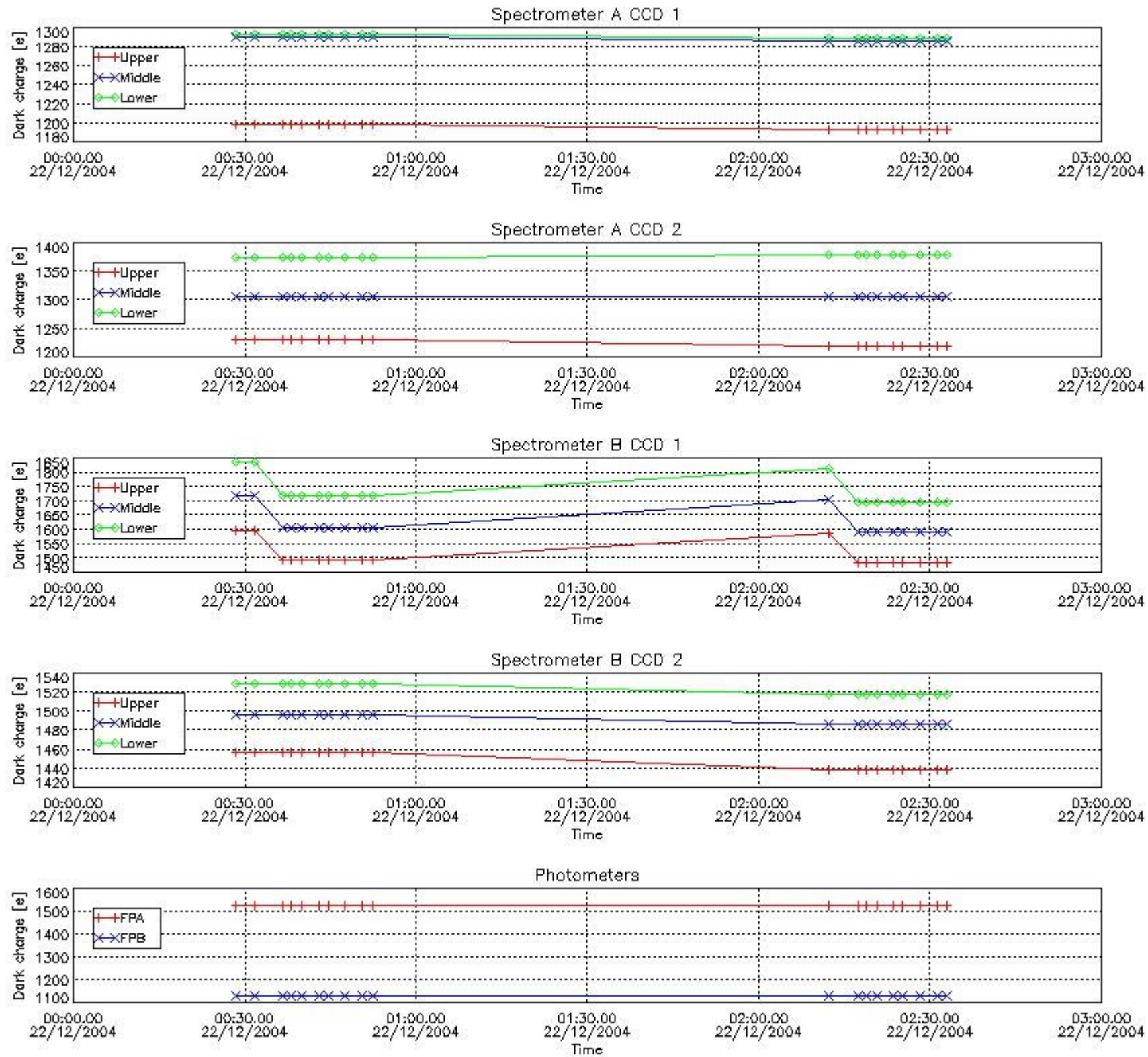
4. Overview of dark signal processing per product

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



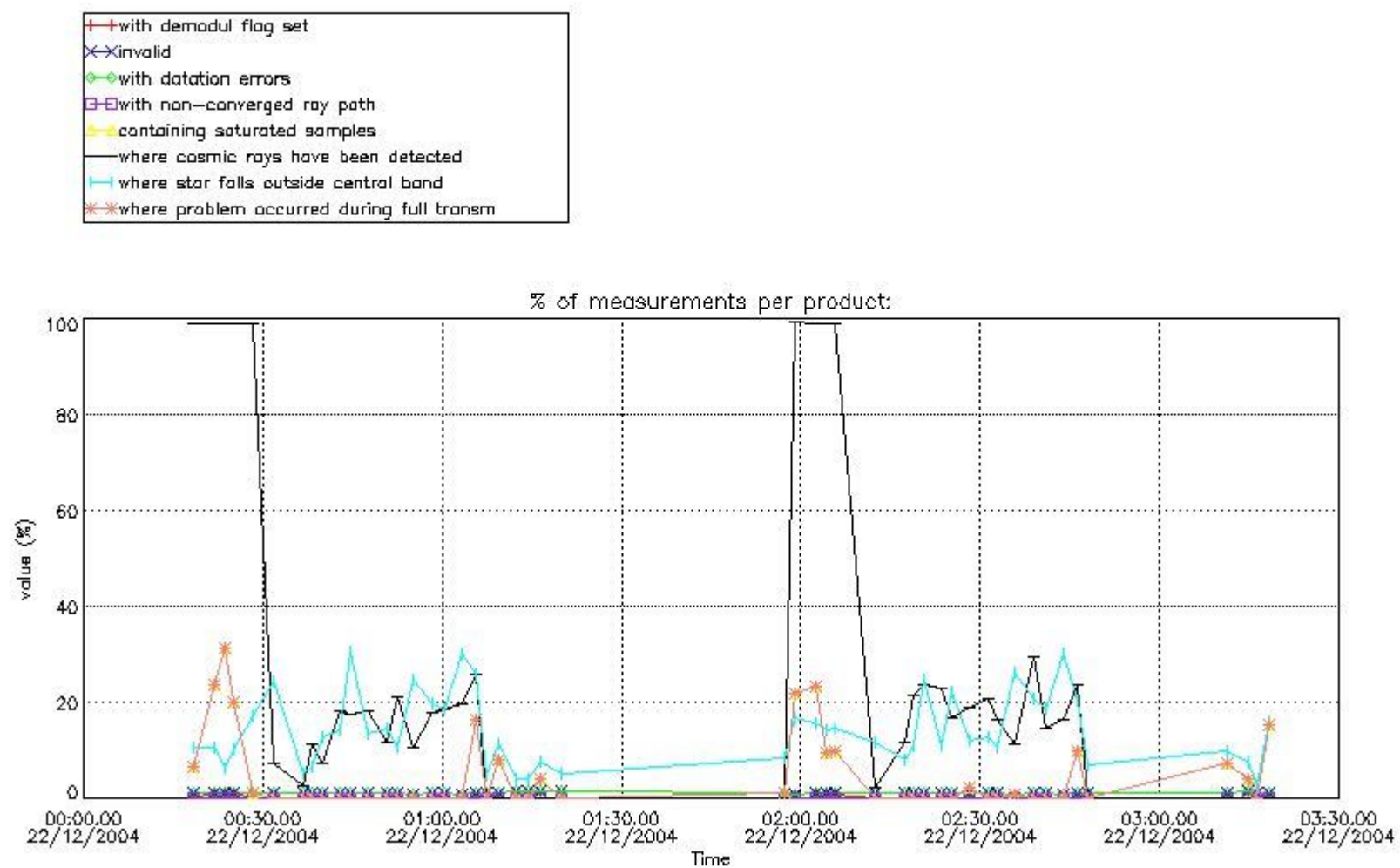
5. Demodulation flag and quality information monitoring

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.

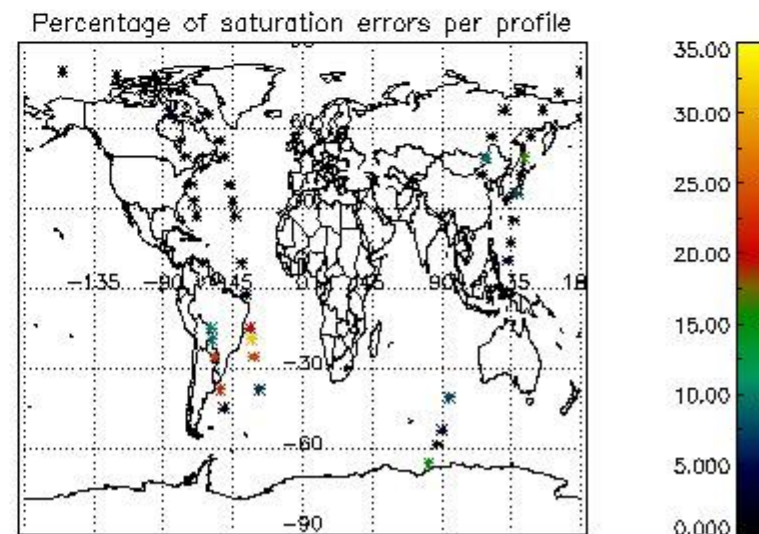
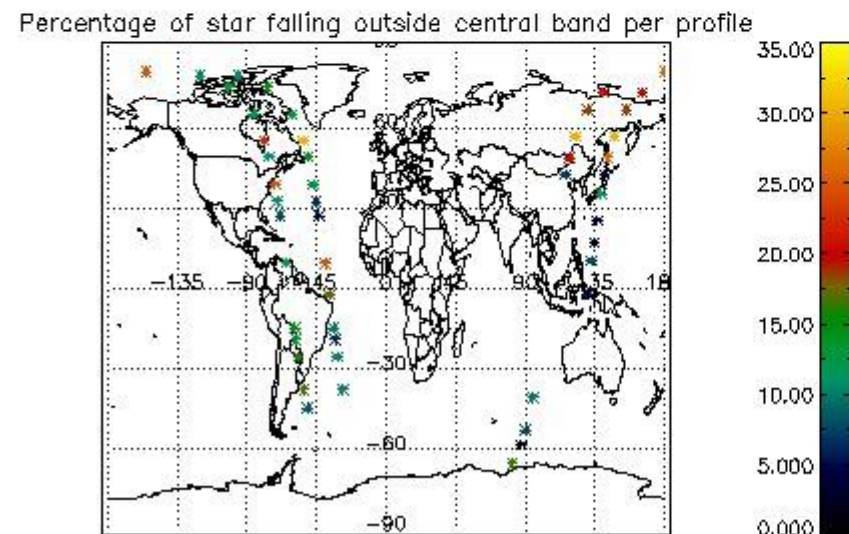
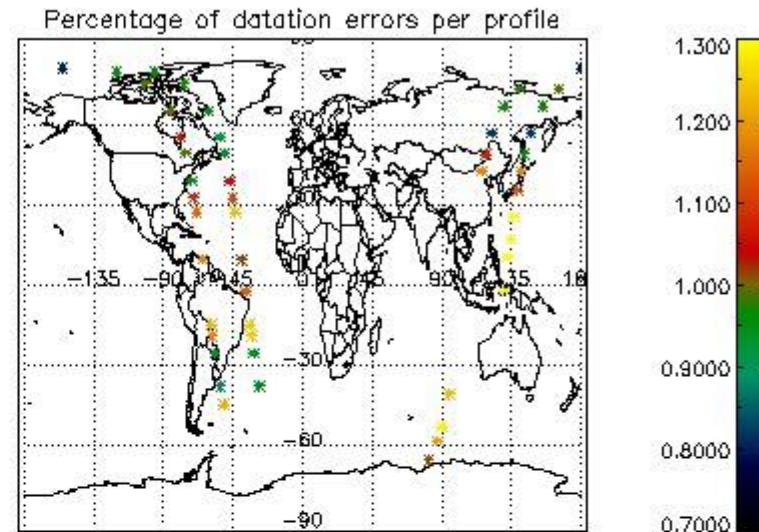
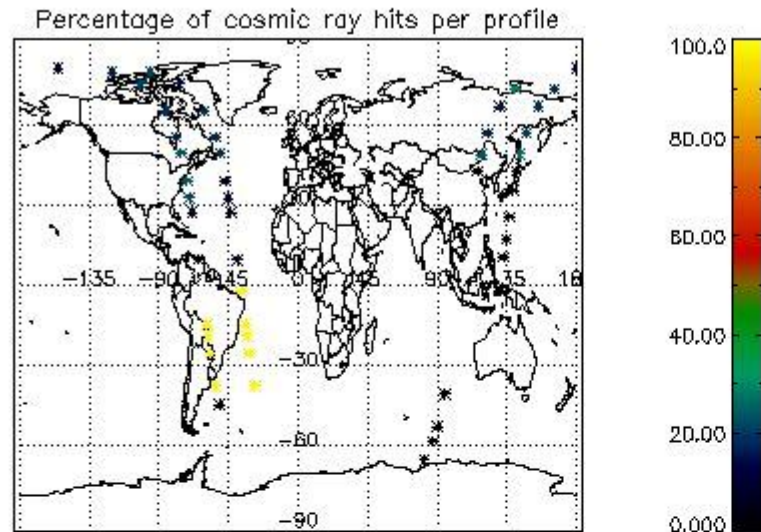
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.4898 %
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)



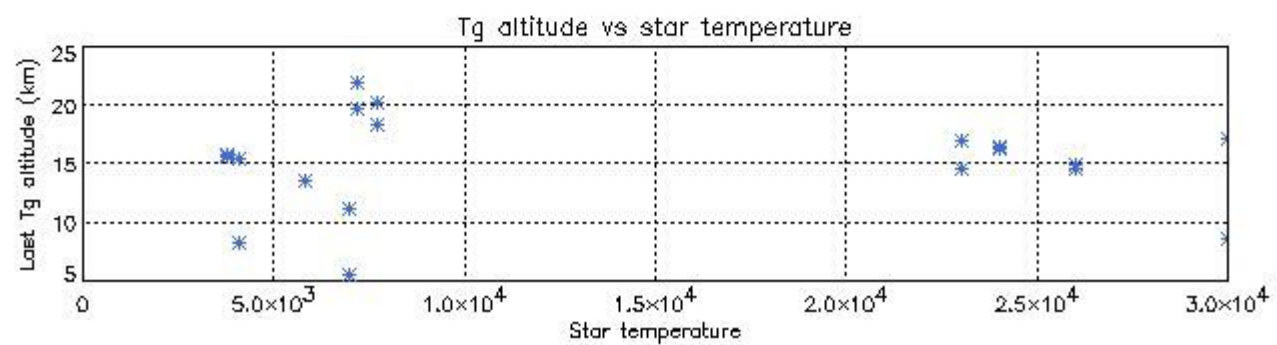
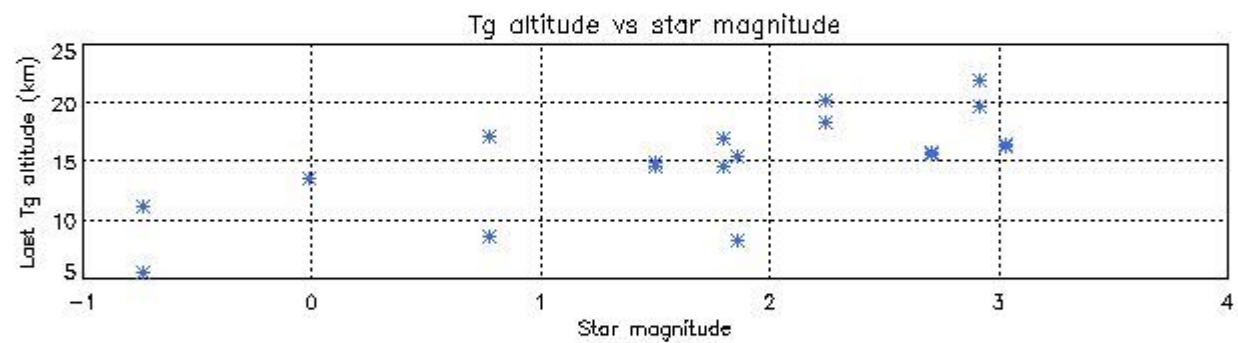
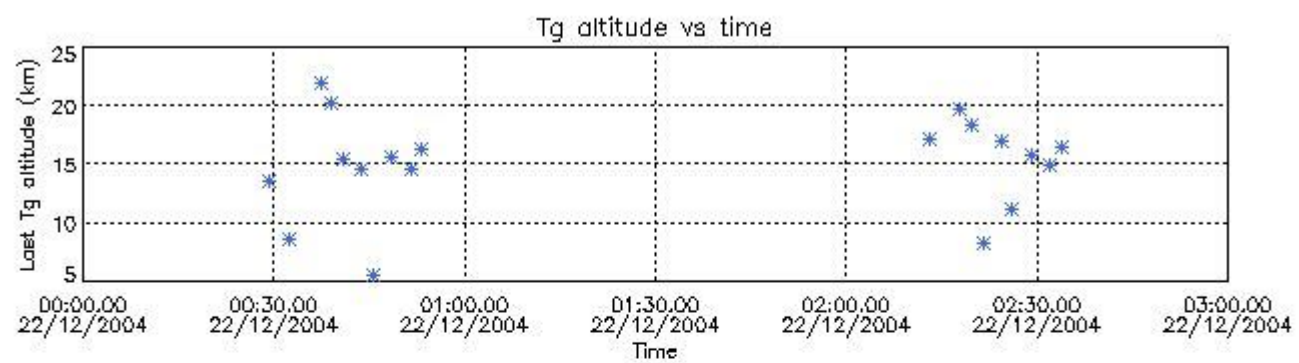
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.004	15.684	14.839
St. deviation:	4.1612	6.3323	3.7773
Maximum:	21.934	24.237	19.642
Minimum:	5.5936	5.9172	8.3351
Number of data:	19.000	19.000	11.000

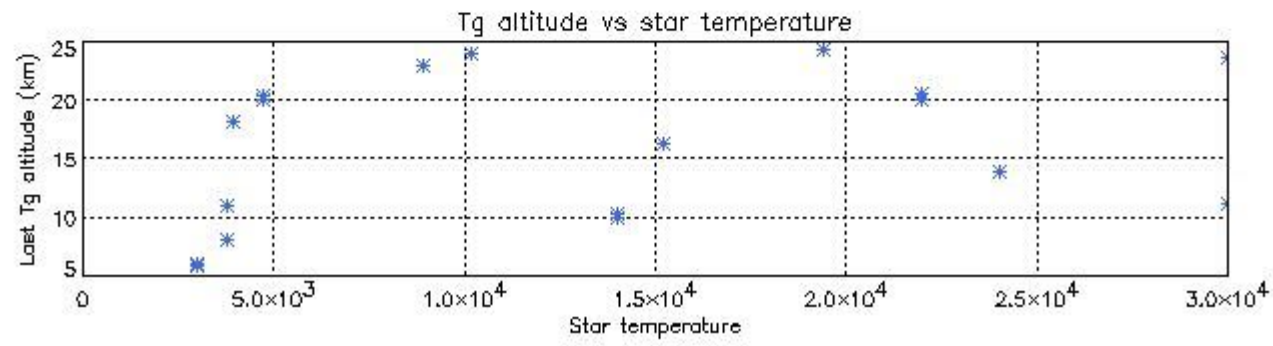
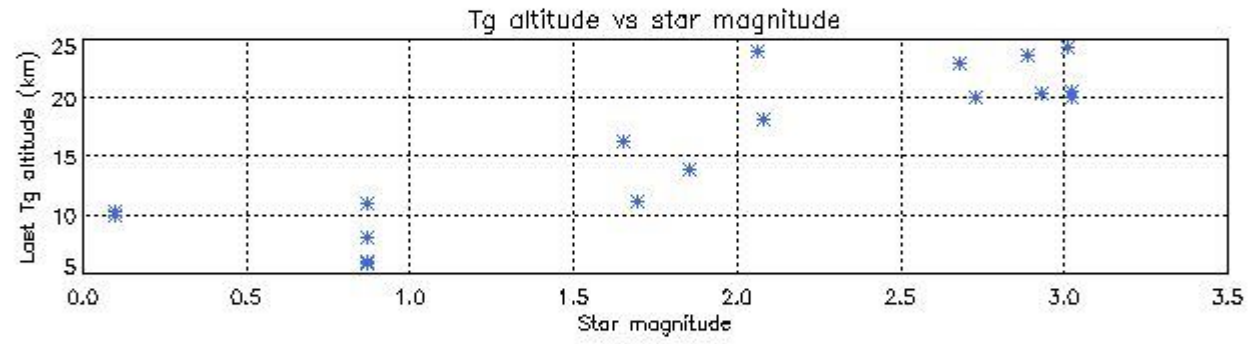
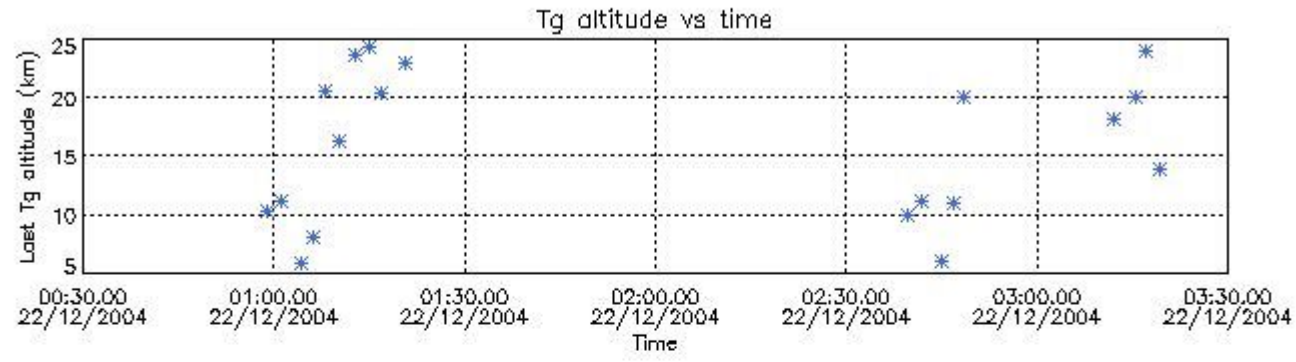
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



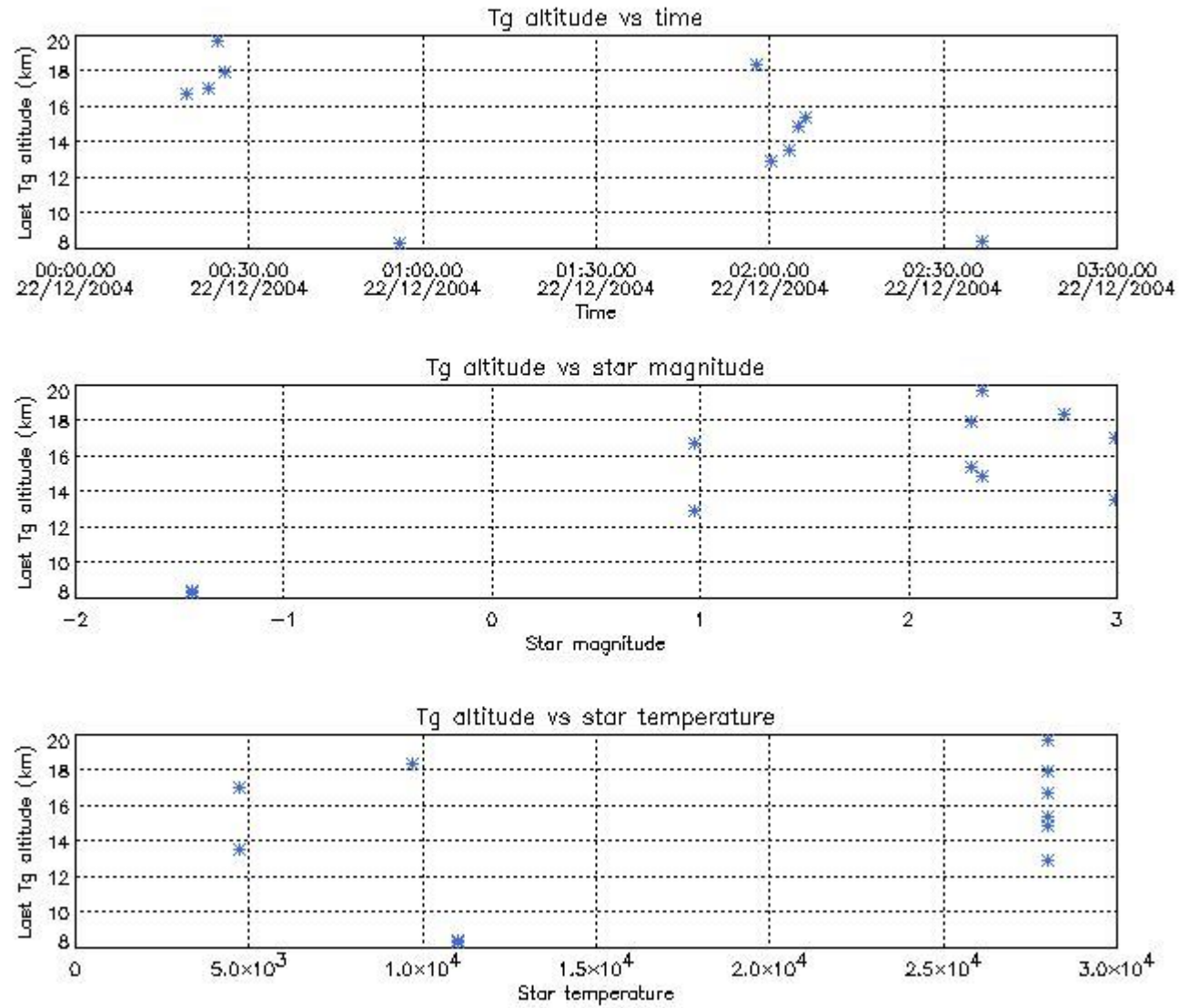
6.3 Plot for BRIGHT limb products

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

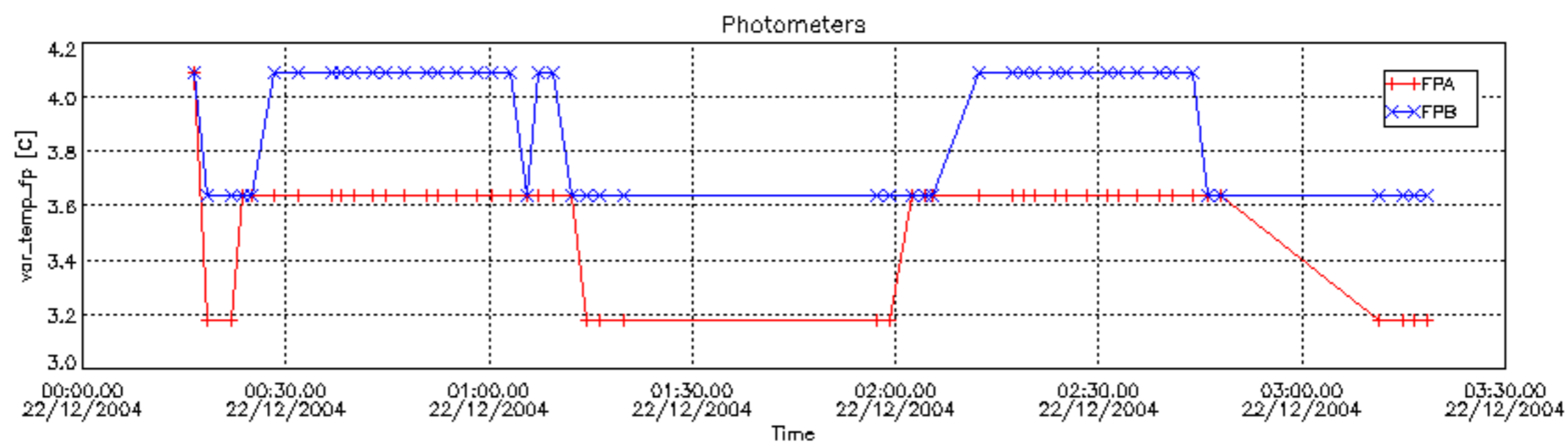
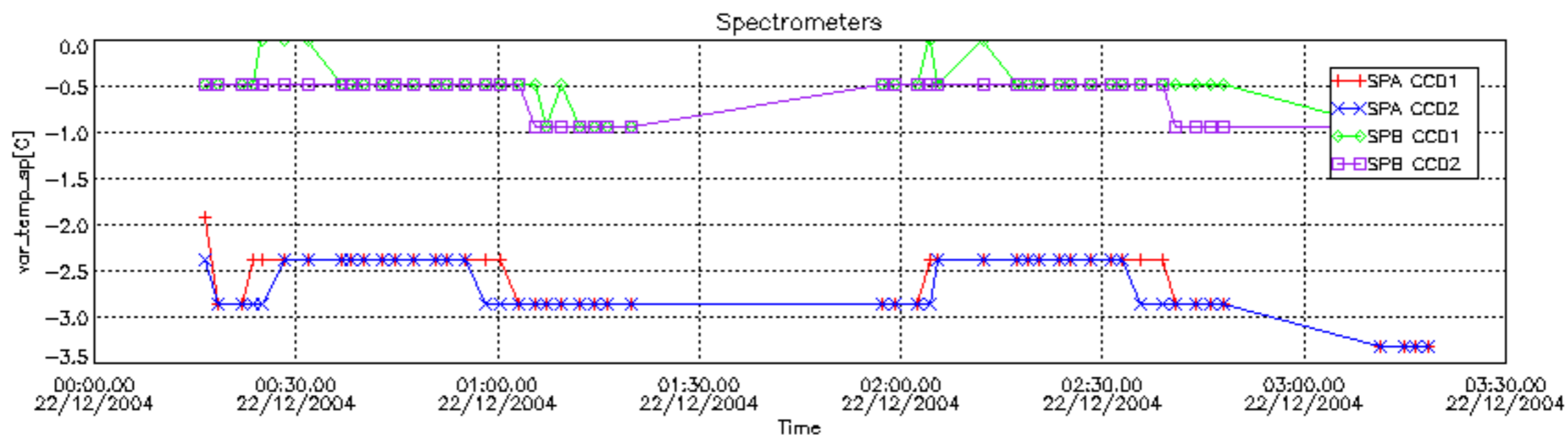
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

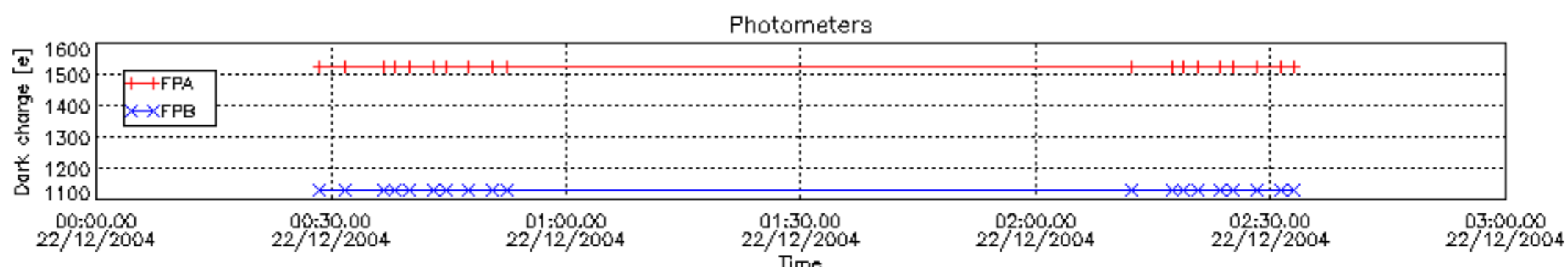
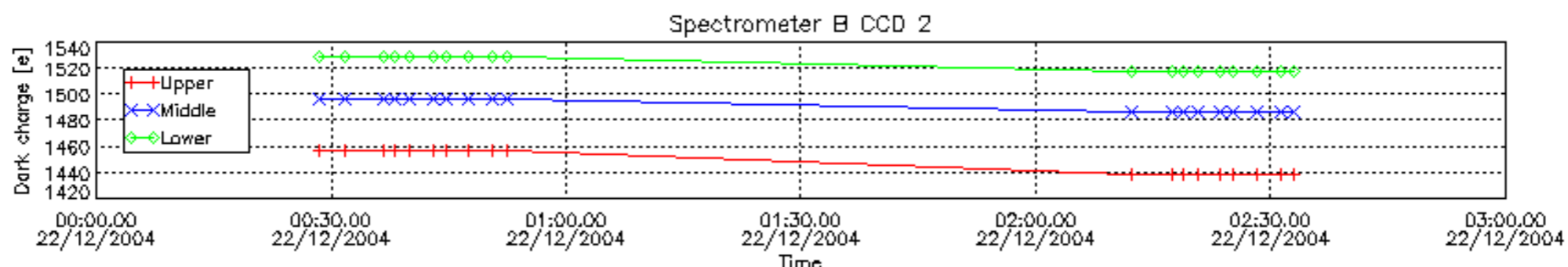
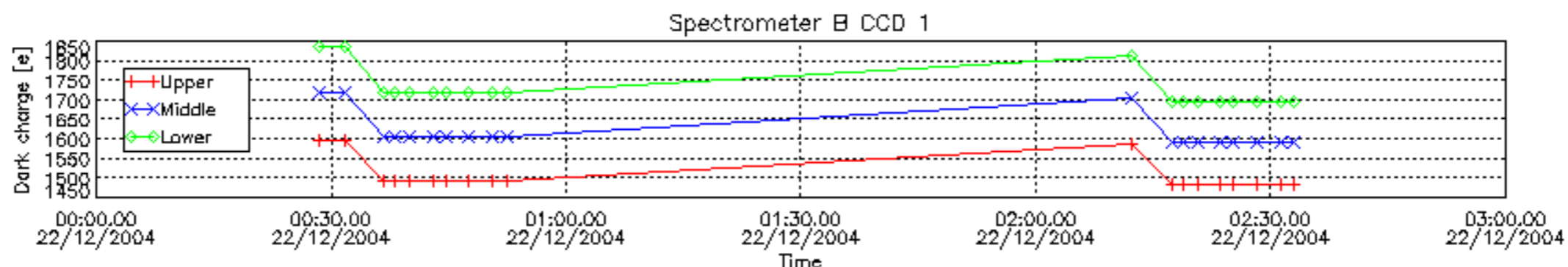
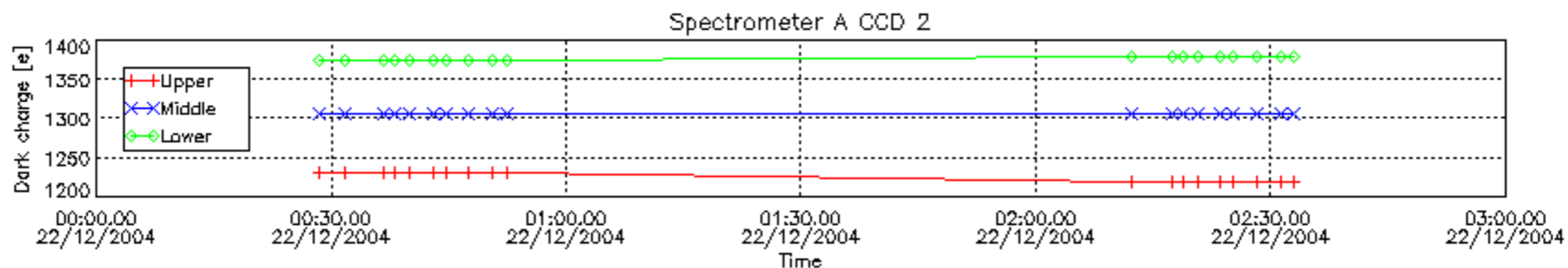
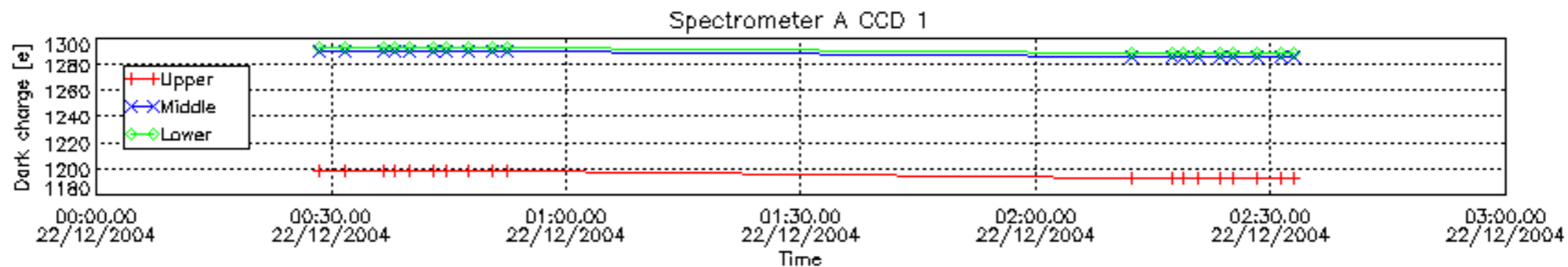
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.1	1446.9	1461.4	1446.3
St. deviation:	4.9349	7.5892	6.8989	9.6092
Maximum:	1500.0	1503.0	1523.0	1516.0
Minimum:	1421.0	1398.0	1437.0	1419.0
Number of data:	24900.	24900.	22850.	22850.

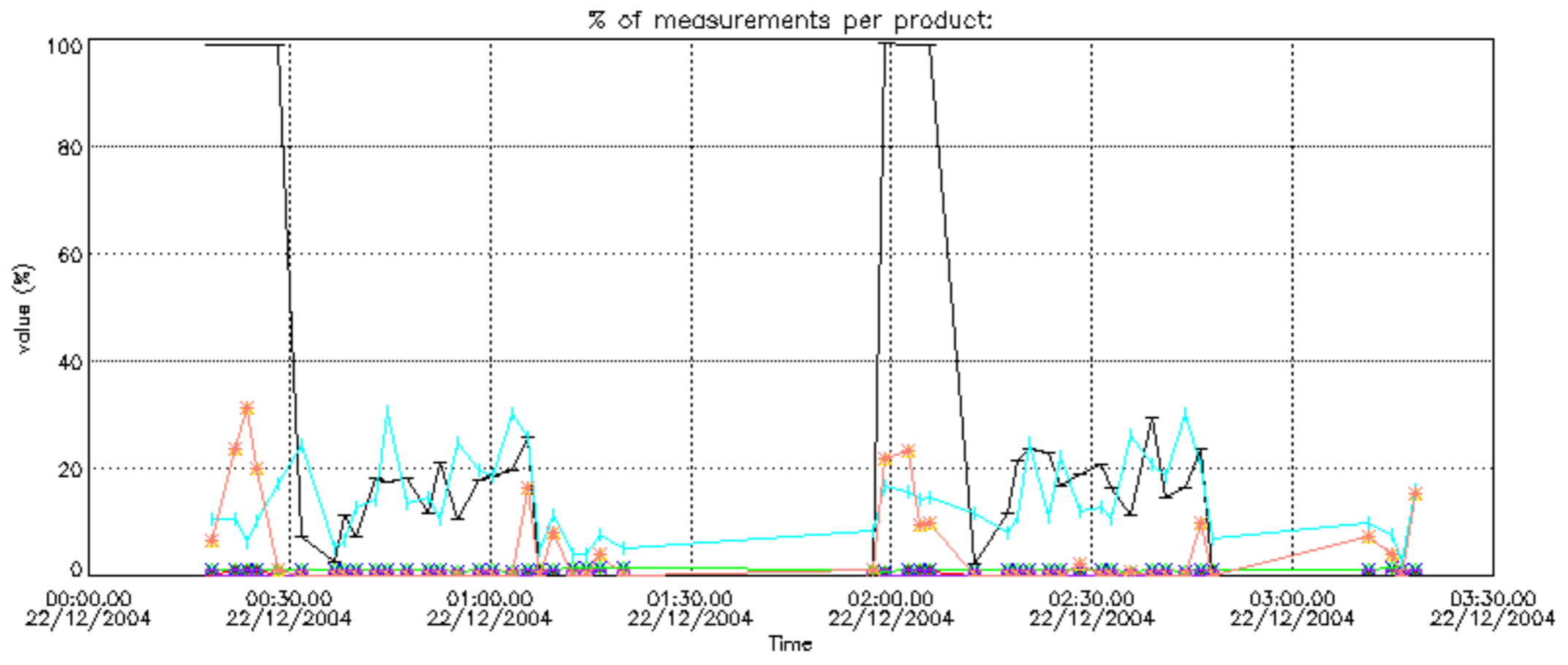
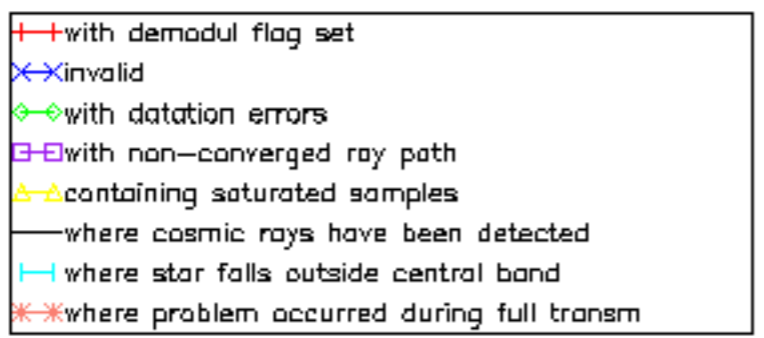
8. Auxiliary Data Files used for the production reported in section 2.2

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.

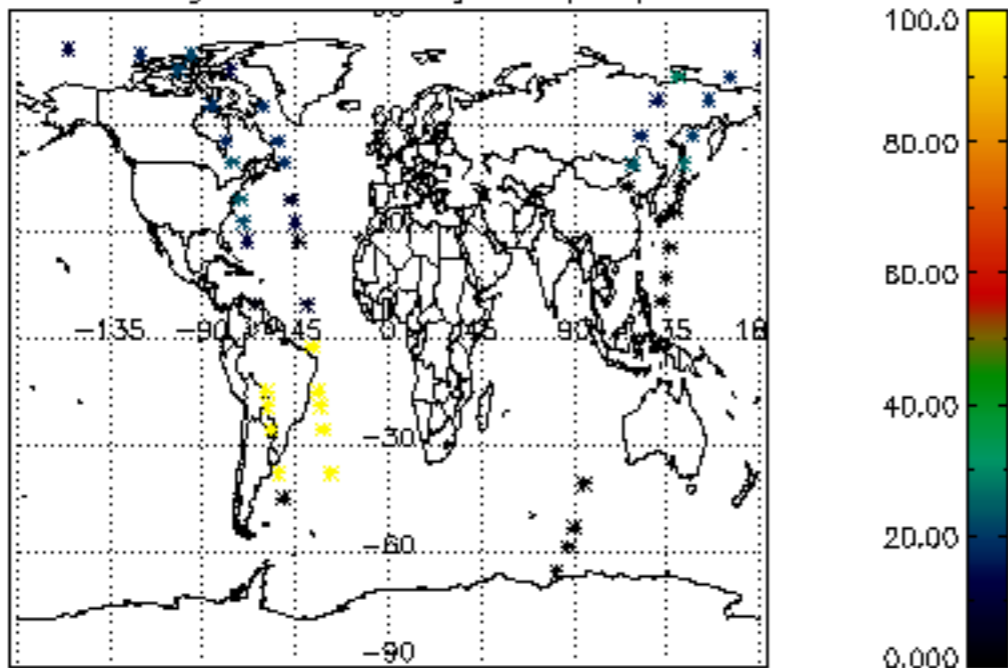
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	22-DEC-2004 00:16:30
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	22-DEC-2004 00:16:30
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	22-DEC-2004 00:16:30
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-DEC-2004 00:16:30
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	22-DEC-2004 00:16:30
ECMWF_FILE	AUX_ECF_AXNECM20041221_060946_20041221_210000_20041222_090000	1	22-DEC-2004 00:16:30
ECMWF_FILE	AUX_ECA_AXNECM20041222_071107_20041221_210000_20041222_090000	13	22-DEC-2004 00:47:34
ECMWF_FILE	AUX_ECF_AXNECM20041221_060946_20041221_210000_20041222_090000	27	22-DEC-2004 01:57:06
ECMWF_FILE	AUX_ECF_AXNECM20041221_193118_20041222_030000_20041222_150000	47	22-DEC-2004 03:11:20
OPTIONAL_ECMWF_FILE	NOT USED	1	22-DEC-2004 00:16:30
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041221_224104_20041221_192717_20041231_205329	1	22-DEC-2004 00:16:30



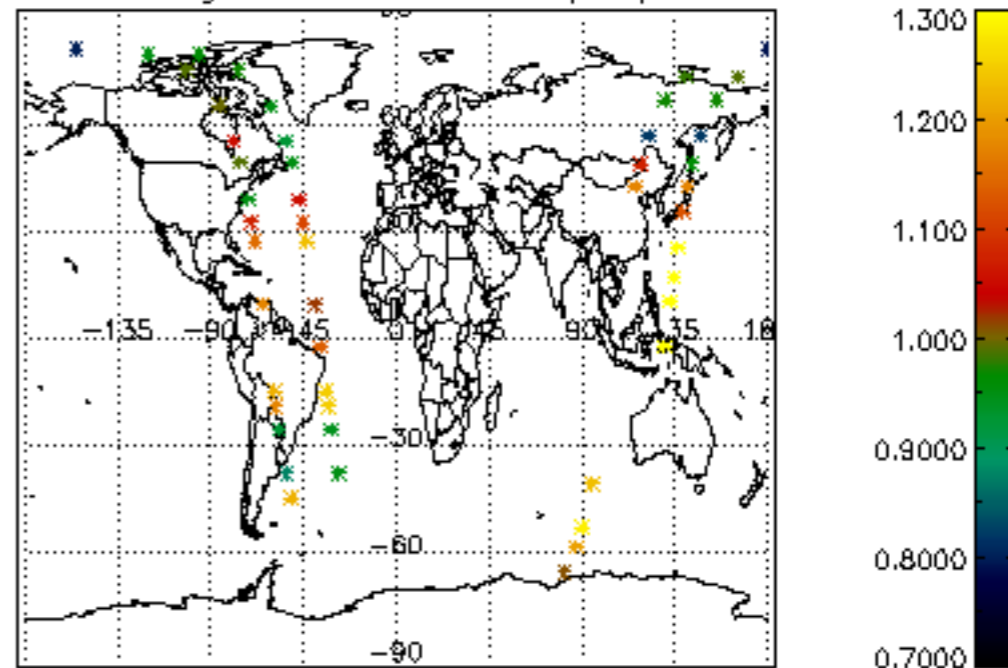




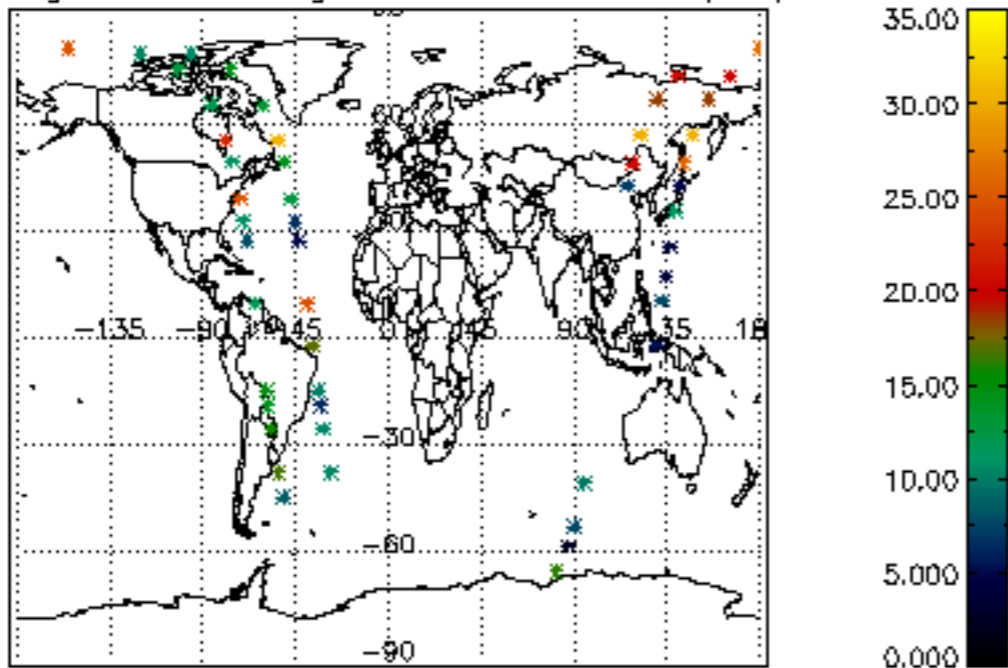
Percentage of cosmic ray hits per profile



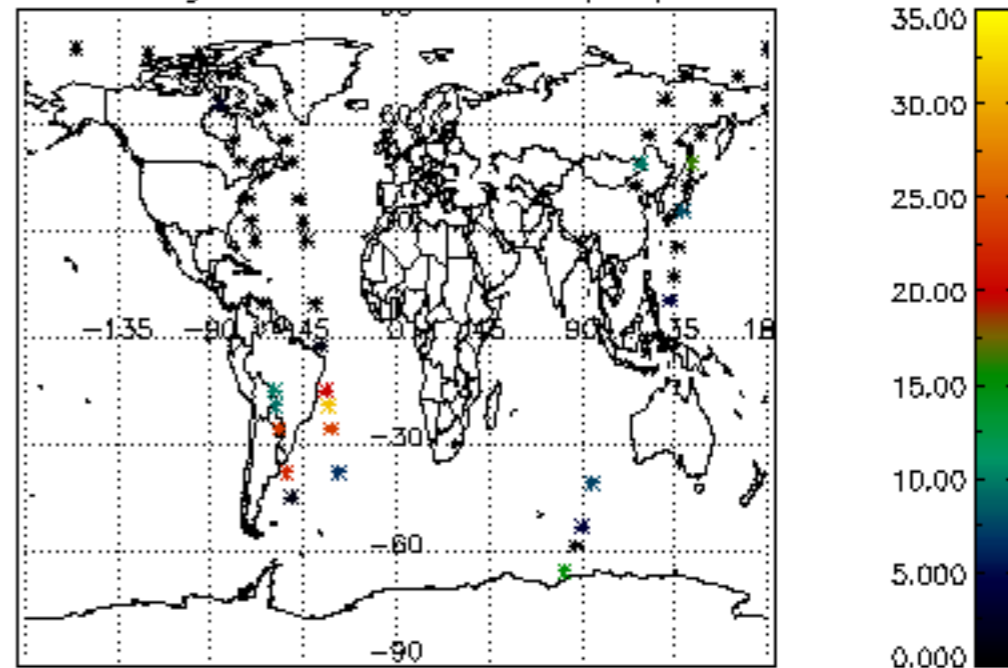
Percentage of datation errors per profile



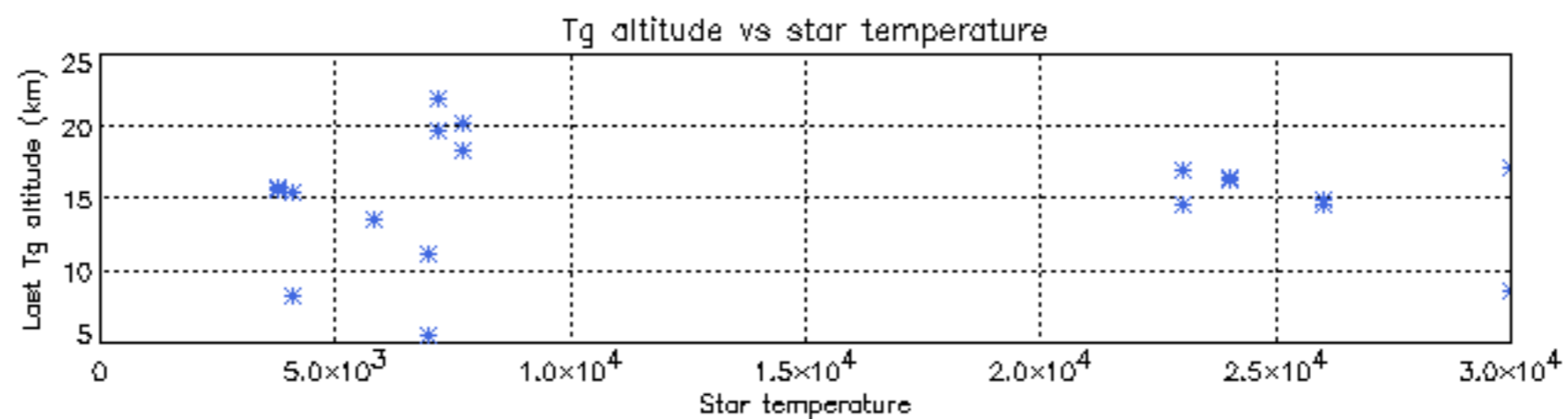
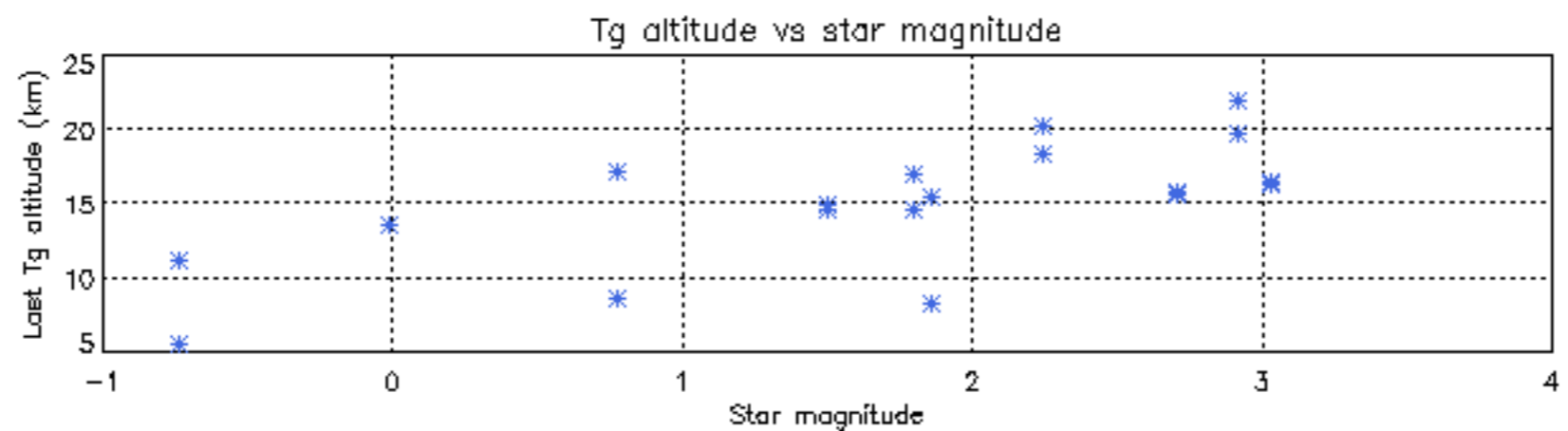
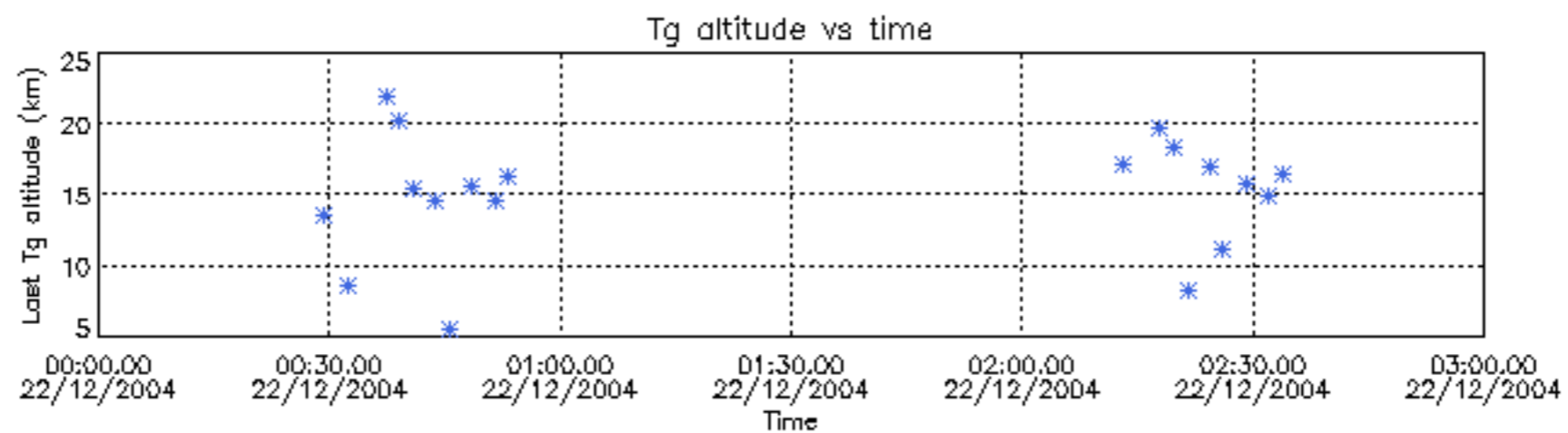
Percentage of star falling outside central band per profile



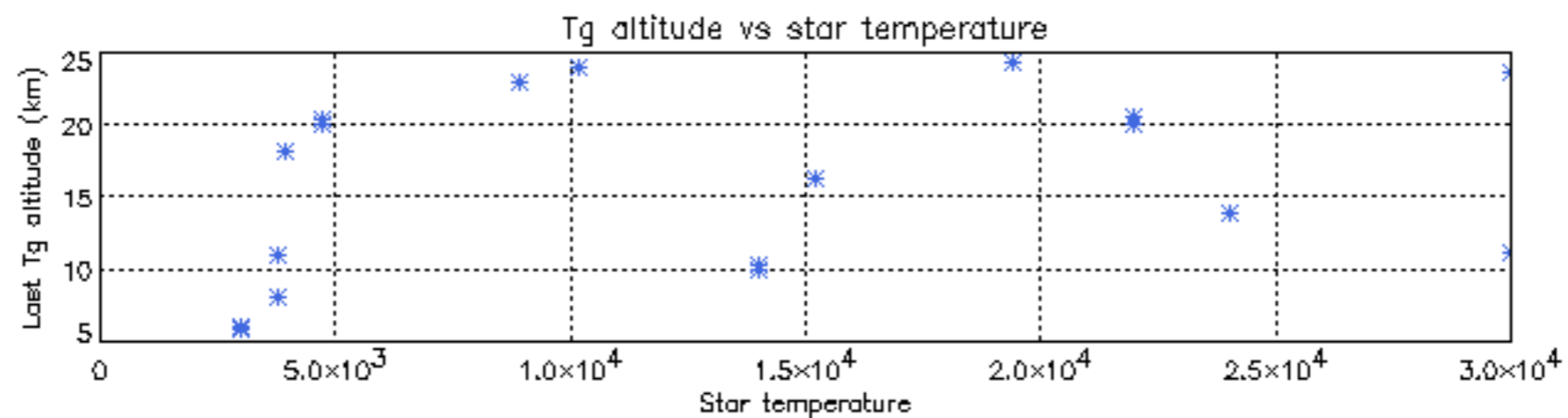
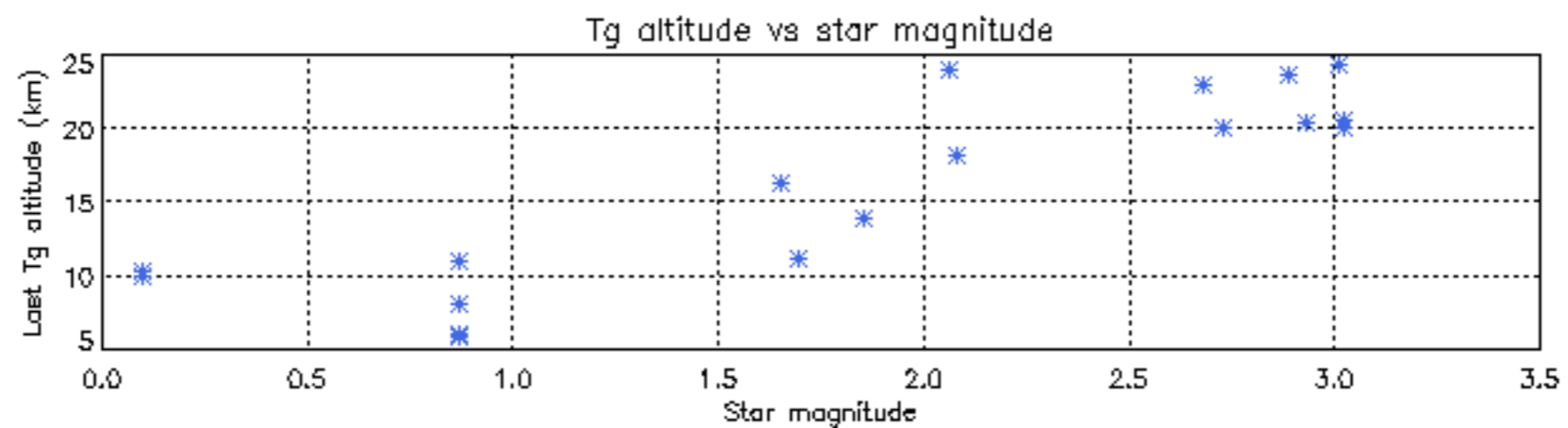
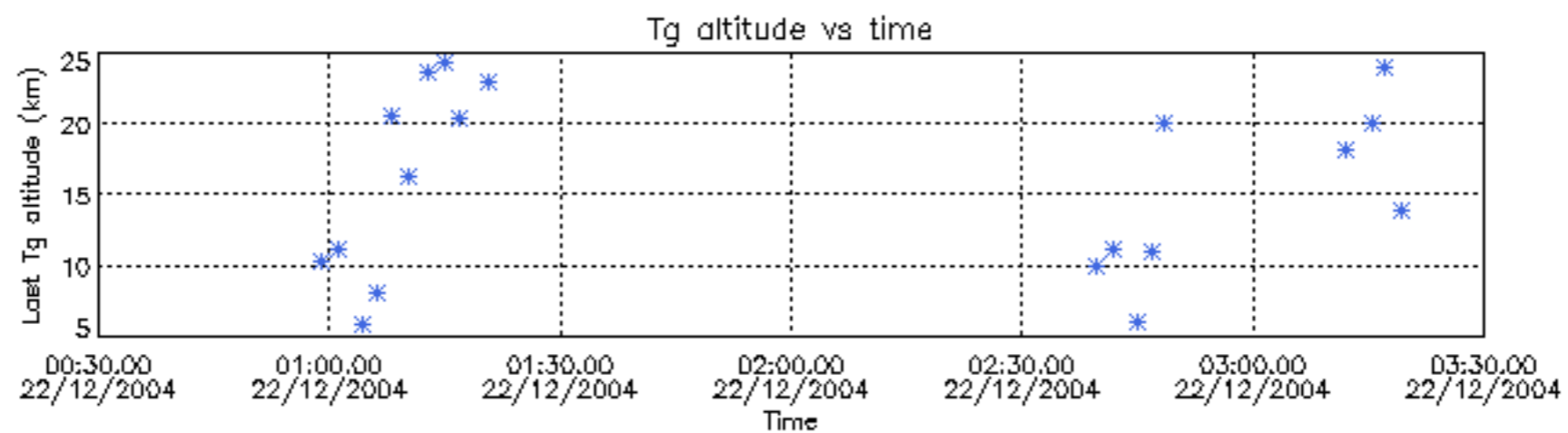
Percentage of saturation errors per profile



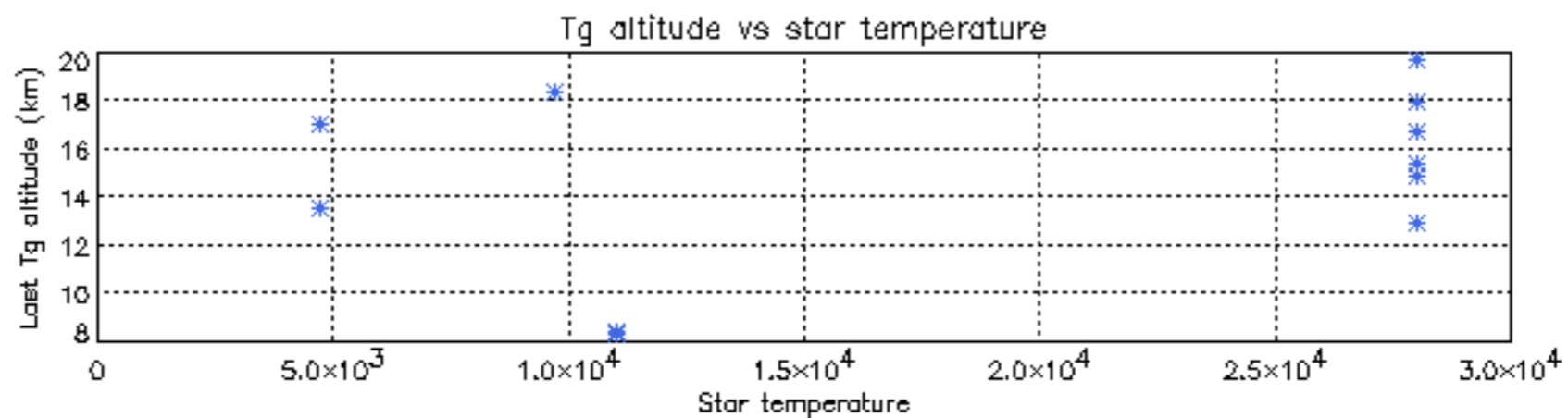
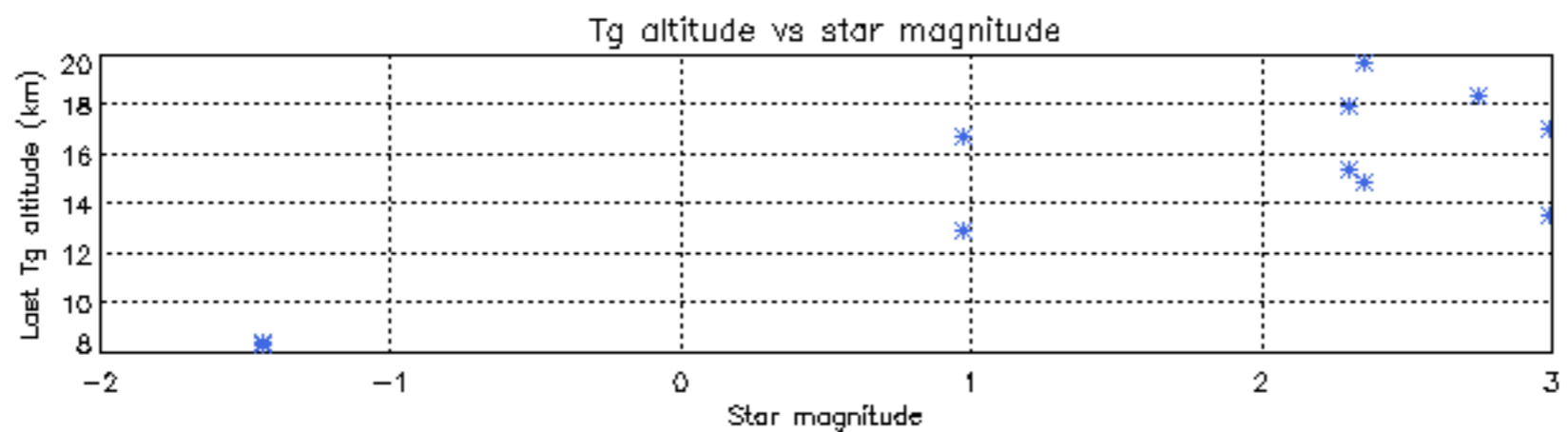
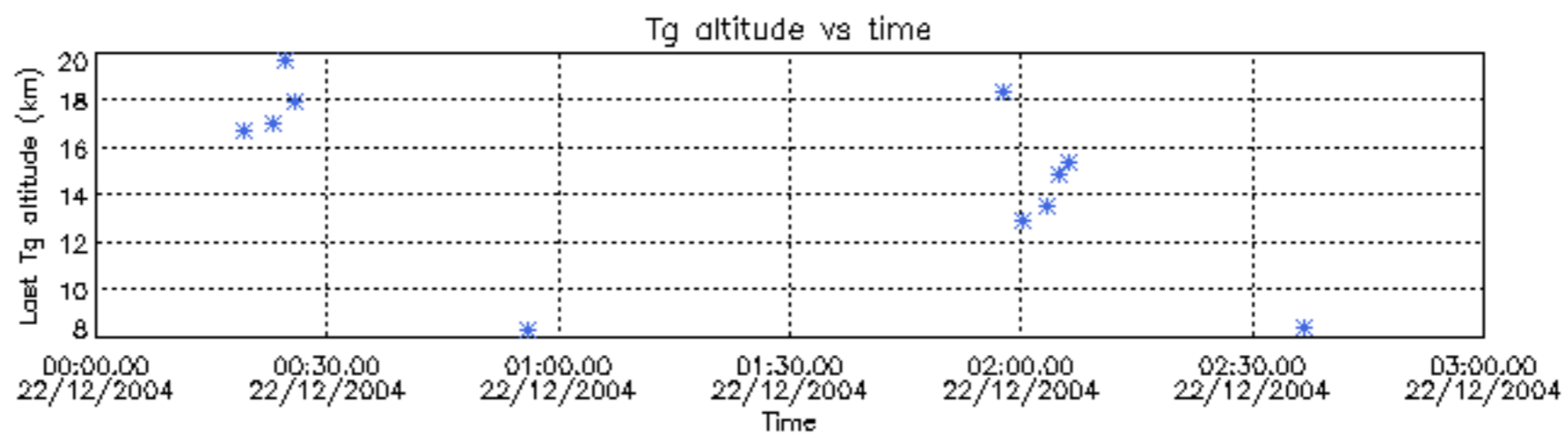
Tangent altitude at which the star is lost



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
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 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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 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
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19; 609.3; 01-DEC-2004 05:00:51; Dark ; 62.5; 34; Gam2Vel ; 1.79; 23000;occ; 125; 0;14402
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
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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
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5;-1899.6; 01-DEC-2004 05:59:38; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;14402
6;-1724.4; 01-DEC-2004 06:02:33; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;14402
7;-1543.3; 01-DEC-2004 06:05:34; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;14402
8;-1390.9; 01-DEC-2004 06:08:07; Bright; 36.5; 3; 16Alp Boo ; -0.05; 4250;occ; 73; 0;14402
9;-1169.8; 01-DEC-2004 06:11:48; Bright; 72.5; 96; 68Del Leo ; 2.56; 9300;occ; 145; 0;14402
10; -914.3; 01-DEC-2004 06:16:03; Bright; 62.0; 121; 29Gam Vir ; 2.74; 7200;occ; 124; 0;14402
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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
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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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21; 923.7; 01-DEC-2004 06:46:41; Dark ; 74.0; 117; Pi Pup ; 2.71; 3800;occ; 148; 0;14403
22; 1150.2; 01-DEC-2004 06:50:28; Dark ; 71.0; 23; 21Eps CMa ; 1.50; 26000;occ; 142; 0;14403
23; 1278.7; 01-DEC-2004 06:52:36; Dark ; 74.0; 179; 240mi2CMa ; 3.03; 24000;occ; 148; 0;14403
24; 1529.5; 01-DEC-2004 06:56:47; Dark ; 98.5; 1; 9Alp CMa ; -1.44; 11000;occ; 197; 0;14403
25; 1750.1; 01-DEC-2004 07:00:28; Dark ; 68.0; 7; 19Bet Ori ; 0.10; 14000;occ; 136; 0;14403
26; 1928.3; 01-DEC-2004 07:03:26; Dark ; 60.5; 30; 46Eps Ori ; 1.69; 30000;occ; 121; 0;14403
27; 2091.0; 01-DEC-2004 07:06:08; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;14403
28; 2227.7; 01-DEC-2004 07:08:25; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;14403
29; 2326.2; 01-DEC-2004 07:10:04; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;14403
30; 2467.2; 01-DEC-2004 07:12:25; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;14403
31; 2603.3; 01-DEC-2004 07:14:41; Bright; 38.5; 79; 26Bet Per ; 2.31; 13100;occ; 77; 0;14403
32; 2735.1; 01-DEC-2004 07:16:53; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;14403
33; 2816.2; 01-DEC-2004 07:18:14; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;14403
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35; 3419.8; 01-DEC-2004 07:28:17; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;14403
36; 3699.5; 01-DEC-2004 07:32:57; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;14403
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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
9; -913.7; 01-DEC-2004 07:56:40; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;14403
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15; 1154.5; 01-DEC-2004 21:55:55; Dark ; 68.0; 23; 21Eps CMA ; 1.50; 26000;occ; 136; 0;14412
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
18; 1749.5; 01-DEC-2004 22:05:50; Dark ; 61.5; 7; 19Bet Ori ; 0.10; 14000;occ; 123; 0;14412
19; 1925.6; 01-DEC-2004 22:08:46; Dark ; 65.0; 30; 46Eps Ori ; 1.69; 30000;occ; 130; 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
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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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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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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
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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
28;	3700.6;	02-DEC-2004	00:18:57;	Bright;	;	39.5;	60;	7Bet UMi	;	2.08;	3950;occ;	79;	0;	14413
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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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25; -68.7; 09-DEC-2004 12:20:47; Dark ; 40.5; 4; Alp1Cen ;-0.01; 5800;occ; 81; 0;14520
26; 13.0; 09-DEC-2004 12:22:08; Dark ; 39.5; 20; Bet Cru ; 1.25; 30000;occ; 79; 0;14521
27; 188.7; 09-DEC-2004 12:25:04; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;14521
28; 305.2; 09-DEC-2004 12:27:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14521
29; 421.4; 09-DEC-2004 12:28:57; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;14521
30; 556.7; 09-DEC-2004 12:31:12; Dark ; 49.0; 41; Eps Car ; 1.86; 4100;occ; 98; 0;14521
31; 707.8; 09-DEC-2004 12:33:43; Dark ; 56.0; 34; Gam2Vel ; 1.79; 23000;occ; 112; 0;14521
32; 864.9; 09-DEC-2004 12:36:20; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;14521
33; 1011.4; 09-DEC-2004 12:38:47; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;14521
34; 1220.7; 09-DEC-2004 12:42:16; Dark ; 60.5; 23; 21Eps CMA ; 1.50; 26000;occ; 121; 0;14521
35; 1336.2; 09-DEC-2004 12:44:12; Dark ; 60.0; 179; 240mi2CMA ; 3.03; 24000;occ; 120; 0;14521
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6;-3484.8; 09-DEC-2004 13:04:26; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;14521
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16;-1524.9; 09-DEC-2004 13:37:06; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;14521
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23; -359.6; 09-DEC-2004 13:56:32; Dark ; 42.5; 123; Iot Cen ; 2.75; 10200;occ; 85; 0;14521
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26; 12.9; 09-DEC-2004 14:02:44; Dark ; 50.0; 20; Bet Cru ; 1.25; 30000;occ; 100; 0;14522
27; 189.6; 09-DEC-2004 14:05:41; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;14522
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30; 559.7; 09-DEC-2004 14:11:51; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;14522
31; 708.7; 09-DEC-2004 14:14:20; Dark ; 60.5; 34; Gam2Vel ; 1.79; 23000;occ; 121; 0;14522
32; 865.4; 09-DEC-2004 14:16:57; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;14522
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22; -437.6; 09-DEC-2004 15:35:50; Dark ; 49.0; 54; 5The Cen ; 2.06; 4500;occ; 98; 0;14522
23; -359.3; 09-DEC-2004 15:37:08; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;14522
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25; -68.4; 09-DEC-2004 15:41:59; Dark ; 48.5; 4; Alp1Cen ;-0.01; 5800;occ; 97; 0;14522
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6; -68.0; 09-DEC-2004 22:24:23; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;14526
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9; 423.8; 09-DEC-2004 22:32:35; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;14527
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23; 2553.2; 09-DEC-2004 23:08:04; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;14527
24; 2675.0; 09-DEC-2004 23:10:06; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;14527

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33; 4327.9; 09-DEC-2004 23:37:39; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;14527
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36; 4917.3; 09-DEC-2004 23:47:28; Bright; 66.0; 138; 47Eps Vir ; 2.83; 4700;occ; 132; 0;14527
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16; 1541.7; 10-DEC-2004 00:31:48; Dark ; 74.0; 1; 9Alp CMa ; -1.44; 11000;occ; 148; 0;14528
17; 1743.8; 10-DEC-2004 00:35:11; Dark ; 59.5; 7; 19Bet Ori ; 0.10; 14000;occ; 119; 0;14528
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23; 2553.2; 10-DEC-2004 00:48:40; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;14528
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27; 3148.0; 10-DEC-2004 00:58:35; Bright; 95.5; 24; 66Alp Gem ; 1.58; 10200;occ; 191; 0;14528
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32; 4138.7; 10-DEC-2004 01:15:06; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;14528
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34; 4512.1; 10-DEC-2004 01:21:19; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;14528
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36; 4918.1; 10-DEC-2004 01:28:05; Bright; 66.0; 138; 47Eps Vir ; 2.83; 4700;occ; 132; 0;14528
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 36; 712.3; 09-DEC-2004 20:56:47; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;14526

/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041210_013357_000042202032_00446_14528_1382.N1

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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041210_024825_000057912032_00447_14529_1383.N1

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37; 1342.1; 10-DEC-2004 12:12:40; Dark ; 62.5; 179; 240mi2CMa ; 3.03; 24000;occ; 125; 0;14535
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041210_121653_000058302032_00453_14535_1626.N1
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2;-4290.3; 10-DEC-2004 12:19:24; Dark ; 59.0; 7; 19Bet Ori ; 0.10; 14000;occ; 118; 0;14535
3;-4142.8; 10-DEC-2004 12:21:51; Dark ; 58.5; 30; 46Eps Ori ; 1.69; 30000;occ; 117; 0;14535
4;-3994.6; 10-DEC-2004 12:24:19; Dark ; 52.5; 27; 24Gam Ori ; 1.64; 26000;occ; 105; 0;14535
5;-3839.0; 10-DEC-2004 12:26:55; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;14535
6;-3586.0; 10-DEC-2004 12:31:08; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;14535
7;-3480.2; 10-DEC-2004 12:32:54; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;14535
8;-3044.1; 10-DEC-2004 12:40:10; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;14535
9;-2905.6; 10-DEC-2004 12:42:28; Bright; 95.5; 24; 66Alp Gem ; 1.58; 10200;occ; 191; 0;14535
10;-2616.0; 10-DEC-2004 12:47:18; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;14535
11;-2332.5; 10-DEC-2004 12:52:01; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;14535
12;-2149.9; 10-DEC-2004 12:55:04; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;14535
13;-2040.8; 10-DEC-2004 12:56:53; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;14535
14;-1897.3; 10-DEC-2004 12:59:17; Bright; 40.5; 39; 85Eta UMa ; 1.85; 24000;occ; 81; 0;14535
15;-1707.0; 10-DEC-2004 13:02:27; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;14535
16;-1520.7; 10-DEC-2004 13:05:33; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;14535
17;-1329.2; 10-DEC-2004 13:08:45; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;14535
18;-1113.7; 10-DEC-2004 13:12:20; Bright; 47.5; 138; 47Eps Vir ; 2.83; 4700;occ; 95; 0;14535
19;-985.2; 10-DEC-2004 13:14:29; Dark ; 93.0; 62; 94Bet Leo ; 2.14; 9700;occ; 186; 0;14535
20;-760.4; 10-DEC-2004 13:18:14; Dark ; 52.5; 15; 67Alp Vir ; 0.98; 28000;occ; 105; 0;14535
21;-551.7; 10-DEC-2004 13:21:42; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;14535
22;-430.4; 10-DEC-2004 13:23:44; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;14535
23;-351.0; 10-DEC-2004 13:25:03; Dark ; 40.0; 123; Iot Cen ; 2.75; 10200;occ; 80; 0;14535
24;-247.4; 10-DEC-2004 13:26:47; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;14535
25;-67.0; 10-DEC-2004 13:29:47; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;14535
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27; 201.7; 10-DEC-2004 13:34:16; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;14536
28; 309.6; 10-DEC-2004 13:36:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14536
29; 427.6; 10-DEC-2004 13:38:02; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;14536
30; 567.9; 10-DEC-2004 13:40:22; Dark ; 53.0; 41; Eps Car ; 1.86; 4100;occ; 106; 0;14536
31; 719.6; 10-DEC-2004 13:42:54; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;14536
32; 871.7; 10-DEC-2004 13:45:26; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;14536
33; 1021.8; 10-DEC-2004 13:47:56; Dark ; 59.0; 117; Pi Pup ; 2.71; 3800;occ; 118; 0;14536
34; 1225.9; 10-DEC-2004 13:51:20; Dark ; 65.5; 23; 21Eps CMa ; 1.50; 26000;occ; 131; 0;14536
35; 1342.5; 10-DEC-2004 13:53:16; Dark ; 47.0; 179; 240mi2CMa ; 3.03; 24000;occ; 94; 0;14536
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041210_135638_000057242032_00454_14536_1627.N1

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4;-3994.6; 10-DEC-2004 14:04:55; Dark ; 56.5; 27; 24Gam Ori ; 1.64; 26000;occ; 113; 0;14536
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6;-3586.2; 10-DEC-2004 14:11:44; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;14536
7;-3479.8; 10-DEC-2004 14:13:30; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;14536
8;-3044.3; 10-DEC-2004 14:20:46; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;14536
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11;-2333.1; 10-DEC-2004 14:32:37; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;14536
12;-2150.5; 10-DEC-2004 14:35:39; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;14536
13;-2041.0; 10-DEC-2004 14:37:29; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;14536
14;-1898.3; 10-DEC-2004 14:39:52; Bright; 42.5; 39; 85Eta UMa ; 1.85; 24000;occ; 85; 0;14536
15;-1707.3; 10-DEC-2004 14:43:03; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;14536
16;-1520.6; 10-DEC-2004 14:46:09; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;14536
17;-1329.7; 10-DEC-2004 14:49:20; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;14536
18;-1112.9; 10-DEC-2004 14:52:57; Bright; 49.5; 138; 47Eps Vir ; 2.83; 4700;occ; 99; 0;14536
19; -983.7; 10-DEC-2004 14:55:06; Dark ; 82.0; 62; 94Bet Leo ; 2.14; 9700;occ; 164; 0;14536
20; -760.2; 10-DEC-2004 14:58:50; Dark ; 48.5; 15; 67Alp Vir ; 0.98; 28000;occ; 97; 0;14536
21; -551.4; 10-DEC-2004 15:02:19; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;14536
22; -430.4; 10-DEC-2004 15:04:20; Dark ; 46.0; 54; 5The Cen ; 2.06; 4500;occ; 92; 0;14536
23; -350.7; 10-DEC-2004 15:05:39; Dark ; 41.5; 123; Iot Cen ; 2.75; 10200;occ; 83; 0;14536
24; -247.2; 10-DEC-2004 15:07:23; Dark ; 38.5; 95; Zet Cen ; 2.55; 26000;occ; 77; 0;14536
25; -68.0; 10-DEC-2004 15:10:22; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;14536
26; 18.8; 10-DEC-2004 15:11:49; Dark ; 40.5; 20; Bet Cru ; 1.25; 30000;occ; 81; 0;14537
27; 200.7; 10-DEC-2004 15:14:51; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;14537
28; 309.9; 10-DEC-2004 15:16:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14537
29; 427.3; 10-DEC-2004 15:18:37; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;14537
30; 568.4; 10-DEC-2004 15:20:58; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;14537
31; 718.5; 10-DEC-2004 15:23:28; Dark ; 52.5; 34; Gam2Vel ; 1.79; 23000;occ; 105; 0;14537
32; 870.3; 10-DEC-2004 15:26:00; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;14537
33; 1022.8; 10-DEC-2004 15:28:33; Dark ; 57.0; 117; Pi Pup ; 2.71; 3800;occ; 114; 0;14537
34; 1226.5; 10-DEC-2004 15:31:56; Dark ; 6.5; 23; 21Eps CMA ; 1.50; 26000;occ; 13; 0;14537

/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041210_203022_000041212032_00458_14540_1386.N1

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3; 1344.9; 10-DEC-2004 20:35:43; Dark ; 60.0; 179; 240mi2CMA ; 3.03; 24000;occ; 120; 0;14540
4; 1544.7; 10-DEC-2004 20:39:03; Dark ; 79.5; 1; 9Alp CMA ;-1.44; 11000;occ; 159; 0;14540
5; 1745.7; 10-DEC-2004 20:42:24; Dark ; 54.0; 7; 19Bet Ori ; 0.10; 14000;occ; 108; 0;14540
6; 1880.1; 10-DEC-2004 20:44:38; Dark ; 56.0; 33; 50Zet Ori ; 1.77; 30000;occ; 112; 0;14540
7; 2040.0; 10-DEC-2004 20:47:18; Dark ; 53.0; 27; 24Gam Ori ; 1.64; 26000;occ; 106; 0;14540
8; 2196.2; 10-DEC-2004 20:49:54; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;14540
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10; 2679.6; 10-DEC-2004 20:57:57; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;14540
11; 2816.9; 10-DEC-2004 21:00:15; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;14540
12; 2992.9; 10-DEC-2004 21:03:11; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;14540
13; 3118.0; 10-DEC-2004 21:05:16; Bright; 87.5; 24; 66Alp Gem ; 1.58; 10200;occ; 175; 0;14540
14; 3419.8; 10-DEC-2004 21:10:18; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;14540
15; 3702.8; 10-DEC-2004 21:15:01; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;14540
16; 3886.6; 10-DEC-2004 21:18:04; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;14540
17; 3994.2; 10-DEC-2004 21:19:52; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;14540
18; 4135.6; 10-DEC-2004 21:22:13; Bright; 44.0; 39; 85Eta UMa ; 1.85; 24000;occ; 88; 0;14540
19; 4329.6; 10-DEC-2004 21:25:27; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;14540
20; 4516.0; 10-DEC-2004 21:28:34; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;14540
21; 4707.1; 10-DEC-2004 21:31:45; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;14540
22; 4924.8; 10-DEC-2004 21:35:23; Bright; 46.5; 138; 47Eps Vir ; 2.83; 4700;occ; 93; 0;14540
23; 5057.3; 10-DEC-2004 21:37:35; Dark ; 88.5; 62; 94Bet Leo ; 2.14; 9700;occ; 177; 0;14540

/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041210_213848_000061822032_00458_14540_1387.N1

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4; -429.0; 10-DEC-2004 21:46:45; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;14540
5; -348.0; 10-DEC-2004 21:48:06; Dark ; 42.5; 123; Iot Cen ; 2.75; 10200;occ; 85; 0;14540
6; -245.8; 10-DEC-2004 21:49:48; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;14540
7; -66.6; 10-DEC-2004 21:52:47; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;14540
8; 20.7; 10-DEC-2004 21:54:14; Dark ; 40.5; 20; Bet Cru ; 1.25; 30000;occ; 81; 0;14541
9; 206.5; 10-DEC-2004 21:57:20; Dark ; 50.0; 113; Mu Vel ; 2.69; 5000;occ; 100; 0;14541

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11; 429.5; 10-DEC-2004 22:01:03; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;14541
12; 570.7; 10-DEC-2004 22:03:24; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;14541
13; 723.2; 10-DEC-2004 22:05:57; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0;14541
14; 873.7; 10-DEC-2004 22:08:27; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;14541
15; 1024.4; 10-DEC-2004 22:10:58; Dark ; 58.5; 117; Pi Pup ; 2.71; 3800;occ; 117; 0;14541
16; 1228.3; 10-DEC-2004 22:14:22; Dark ; 62.5; 23; 21Eps CMa ; 1.50; 26000;occ; 125; 0;14541
17; 1344.9; 10-DEC-2004 22:16:19; Dark ; 61.5; 179; 240mi2CMa ; 3.03; 24000;occ; 123; 0;14541
18; 1544.8; 10-DEC-2004 22:19:39; Dark ; 72.0; 1; 9Alp CMa ;-1.44; 11000;occ; 144; 0;14541
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22; 2195.6; 10-DEC-2004 22:30:29; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;14541
23; 2589.7; 10-DEC-2004 22:37:03; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;14541
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25; 2816.8; 10-DEC-2004 22:40:50; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;14541
26; 2993.2; 10-DEC-2004 22:43:47; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;14541
27; 3115.7; 10-DEC-2004 22:45:49; Bright; 94.5; 24; 66Alp Gem ; 1.58; 10200;occ; 189; 0;14541
28; 3417.3; 10-DEC-2004 22:50:51; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;14541
29; 3702.6; 10-DEC-2004 22:55:36; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;14541
30; 3886.2; 10-DEC-2004 22:58:40; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;14541
31; 3994.1; 10-DEC-2004 23:00:28; Bright; 43.5; 32; 77Eps UMa ; 1.76; 11000;occ; 87; 0;14541
32; 4137.4; 10-DEC-2004 23:02:51; Bright; 40.0; 39; 85Eta UMa ; 1.85; 24000;occ; 80; 0;14541
33; 4329.7; 10-DEC-2004 23:06:03; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;14541
34; 4516.1; 10-DEC-2004 23:09:10; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;14541
35; 4705.6; 10-DEC-2004 23:12:19; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;14541
36; 4925.4; 10-DEC-2004 23:15:59; Bright; 67.0; 138; 47Eps Vir ; 2.83; 4700;occ; 134; 0;14541
37; 5058.7; 10-DEC-2004 23:18:12; Dark ; 88.5; 62; 94Bet Leo ; 2.14; 9700;occ; 177; 0;14541
38; 5276.3; 10-DEC-2004 23:21:50; Dark ; 1.5; 15; 67Alp Vir ; 0.98; 28000;occ; 3; 0;14541
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041210_232150_000060912032_00459_14541_1388.N1
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 3; -429.4; 10-DEC-2004 23:27:20; Dark ; 47.0; 54; 5The Cen ; 2.06; 4500;occ; 94; 0;14541
 4; -349.2; 10-DEC-2004 23:28:40; Dark ; 42.5; 123; Iot Cen ; 2.75; 10200;occ; 85; 0;14541
 5; -245.3; 10-DEC-2004 23:30:24; Dark ; 38.5; 95; Zet Cen ; 2.55; 26000;occ; 77; 0;14541
 6; -66.4; 10-DEC-2004 23:33:23; Dark ; 45.5; 4; Alp1Cen ;-0.01; 5800;occ; 91; 0;14541
 7; 20.7; 10-DEC-2004 23:34:50; Dark ; 40.5; 20; Bet Cru ; 1.25; 30000;occ; 81; 0;14542
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10; 429.3; 10-DEC-2004 23:41:39; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;14542
11; 570.7; 10-DEC-2004 23:44:00; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;14542
12; 724.6; 10-DEC-2004 23:46:34; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;14542
13; 872.4; 10-DEC-2004 23:49:02; Dark ; 54.0; 2; Alp Car ;-0.74; 7000;occ; 108; 0;14542
14; 1025.9; 10-DEC-2004 23:51:35; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;14542
15; 1228.8; 10-DEC-2004 23:54:58; Dark ; 62.5; 23; 21Eps CMa ; 1.50; 26000;occ; 125; 0;14542
16; 1345.4; 10-DEC-2004 23:56:55; Dark ; 59.0; 179; 240mi2CMa ; 3.03; 24000;occ; 118; 0;14542
17; 1545.6; 11-DEC-2004 00:00:15; Dark ; 77.5; 1; 9Alp CMa ;-1.44; 11000;occ; 155; 0;14542
18; 1743.9; 11-DEC-2004 00:03:33; Dark ; 55.0; 7; 19Bet Ori ; 0.10; 14000;occ; 110; 0;14542
19; 1880.2; 11-DEC-2004 00:05:50; Dark ; 54.5; 33; 50Zet Ori ; 1.77; 30000;occ; 109; 0;14542
20; 2039.1; 11-DEC-2004 00:08:29; Dark ; 54.5; 27; 24Gam Ori ; 1.64; 26000;occ; 109; 0;14542
21; 2194.8; 11-DEC-2004 00:11:04; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;14542
22; 2589.7; 11-DEC-2004 00:17:39; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;14542
23; 2679.9; 11-DEC-2004 00:19:09; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;14542
24; 2817.0; 11-DEC-2004 00:21:27; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;14542
25; 2994.1; 11-DEC-2004 00:24:24; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0;14542
26; 3113.5; 11-DEC-2004 00:26:23; Bright; 95.5; 24; 66Alp Gem ; 1.58; 10200;occ; 191; 0;14542
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32; 4329.9; 11-DEC-2004 00:46:39; Bright; 53.0; 180; 27Gam Boo ; 3.04; 8000;occ; 106; 0;14542
33; 4516.8; 11-DEC-2004 00:49:46; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;14542
34; 4707.6; 11-DEC-2004 00:52:57; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;14542
35; 4926.2; 11-DEC-2004 00:56:36; Bright; 50.0; 138; 47Eps Vir ; 2.83; 4700;occ; 100; 0;14542
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23; -430.1; 10-DEC-2004 16:44:56; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;14537
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27; 19.5; 10-DEC-2004 16:52:25; Dark ; 49.5; 20; Bet Cru ; 1.25; 30000;occ; 99; 0;14538
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31; 569.0; 10-DEC-2004 17:01:35; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;14538
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13;-2616.9; 10-DEC-2004 17:49:05; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;14538
14;-2333.2; 10-DEC-2004 17:53:49; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;14538
15;-2150.3; 10-DEC-2004 17:56:52; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;14538
16;-2041.7; 10-DEC-2004 17:58:40; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;14538
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25; -429.4; 10-DEC-2004 18:25:33; Dark ; 45.5; 54; 5The Cen ; 2.06; 4500;occ; 91; 0;14538
26; -349.7; 10-DEC-2004 18:26:52; Dark ; 43.5; 123; Iot Cen ; 2.75; 10200;occ; 87; 0;14538
27; -246.8; 10-DEC-2004 18:28:35; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;14538
28; -66.5; 10-DEC-2004 18:31:35; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;14538
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31; 310.4; 10-DEC-2004 18:37:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14539
32; 428.7; 10-DEC-2004 18:39:51; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;14539
33; 570.0; 10-DEC-2004 18:42:12; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;14539

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14; -2616.8; 10-DEC-2004 19:29:41; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;14539
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33; 429.1; 10-DEC-2004 20:20:27; Dark ; 43.5; 29; Bet Car ; 1.67; 10200;occ; 87; 0;14540
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36; 873.3; 10-DEC-2004 20:27:51; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;14540
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7; 207.7; 11-DEC-2004 01:18:33; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;14543
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13; 1026.2; 11-DEC-2004 01:32:12; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;14543
14; 1231.1; 11-DEC-2004 01:35:37; Dark ; 64.0; 23; 21Eps CMa ; 1.50; 26000;occ; 128; 0;14543
15; 1345.7; 11-DEC-2004 01:37:31; Dark ; 62.0; 179; 240mi2CMa ; 3.03; 24000;occ; 124; 0;14543
16; 1545.7; 11-DEC-2004 01:40:51; Dark ; 75.0; 1; 9Alp CMa ; -1.44; 11000;occ; 150; 0;14543
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23; 2817.0; 11-DEC-2004 02:02:02; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;14543
24; 2994.2; 11-DEC-2004 02:05:00; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;14543
25; 3111.3; 11-DEC-2004 02:06:57; Bright; 91.5; 24; 66Alp Gem ; 1.58; 10200;occ; 183; 0;14543
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 16; 209.6; 11-DEC-2004 02:59:11; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;14544
 17; 311.9; 11-DEC-2004 03:00:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14544
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 22; 1026.9; 11-DEC-2004 03:12:48; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;14544
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7; 204.6; 22-DEC-2004 22:20:16; Dark ; 38.0; 112; Alp Mus ; 2.69; 26000;occ; 76; 0;14713

```

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16; 1400.8; 22-DEC-2004 22:40:12; Dark ; 52.0; 179; 240mi2CMa ; 3.03; 24000;occ; 104; 0;14713
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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041227_195122_000041092033_00200_14783_1564.N1

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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041227_082047_000060442033_00193_14776_1925.N1

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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041226_071154_000060852033_00178_14761_1914.N1

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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041227_163642_000058992033_00198_14781_1930.N1

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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041227_181718_000057542033_00199_14782_1931.N1

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31; 538.3; 30-DEC-2004 13:11:05; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;14822
32; 616.9; 30-DEC-2004 13:12:23; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;14822
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13;-3165.3; 30-DEC-2004 13:49:57; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0;14822
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22; 2100.9; 30-DEC-2004 22:00:07; Dark ; 81.5; 8; 10Alp CMi ; 0.40; 6500;occ; 163; 0;14827
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26; 2567.7; 30-DEC-2004 22:07:54; Bright; 41.5; 107; 37The Aur ; 2.65; 11000;occ; 83; 0;14827
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37; 4817.8; 30-DEC-2004 22:45:24; Bright; 53.5; 111; 8Eta Boo ; 2.68; 6000;occ; 107; 0;14827
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21;-2067.0; 31-DEC-2004 20:19:02; Bright; 47.5; 55; 79Zet UMa ; 2.06; 10200;occ; 95; 0;14840
22;-1929.2; 31-DEC-2004 20:21:20; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;14840
23;-1684.1; 31-DEC-2004 20:25:25; Bright; 42.5; 180; 27Gam Boo ; 3.04; 8000;occ; 85; 0;14840
24;-1463.7; 31-DEC-2004 20:29:05; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;14840
25;-1211.1; 31-DEC-2004 20:33:18; Bright; 54.5; 111; 8Eta Boo ; 2.68; 6000;occ; 109; 0;14840
26;-1010.4; 31-DEC-2004 20:36:38; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;14840
27; -843.3; 31-DEC-2004 20:39:26; Bright; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;14840
28; -684.4; 31-DEC-2004 20:42:05; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;14840
29; -476.6; 31-DEC-2004 20:45:32; Dark ; 76.5; 15; 67Alp Vir ; 0.98; 28000;occ; 153; 0;14840
30; -284.1; 31-DEC-2004 20:48:45; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;14840
31; -194.1; 31-DEC-2004 20:50:15; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;14840
32; -105.0; 31-DEC-2004 20:51:44; Dark ; 45.0; 95; Zet Cen ; 2.55; 26000;occ; 90; 0;14840
33; -4.7; 31-DEC-2004 20:53:24; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;14840
34; 105.9; 31-DEC-2004 20:55:15; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;14841
35; 227.8; 31-DEC-2004 20:57:17; Dark ; 47.0; 12; Alp1Cru ; 0.77; 30000;occ; 94; 0;14841
36; 400.3; 31-DEC-2004 21:00:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14841
37; 546.0; 31-DEC-2004 21:02:35; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;14841
38; 628.8; 31-DEC-2004 21:03:58; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;14841
39; 724.5; 31-DEC-2004 21:05:33; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;14841
40; 844.5; 31-DEC-2004 21:07:33; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;14841
41; 977.3; 31-DEC-2004 21:09:46; Dark ; 27.0; 2; Alp Car ;-0.74; 7000;occ; 54; 0;14841

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