

GOMOS Daily Report 21-JUL-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	23JUL2004 04:00:47
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (21JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (22JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	16
Nb of prods with errors	0

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

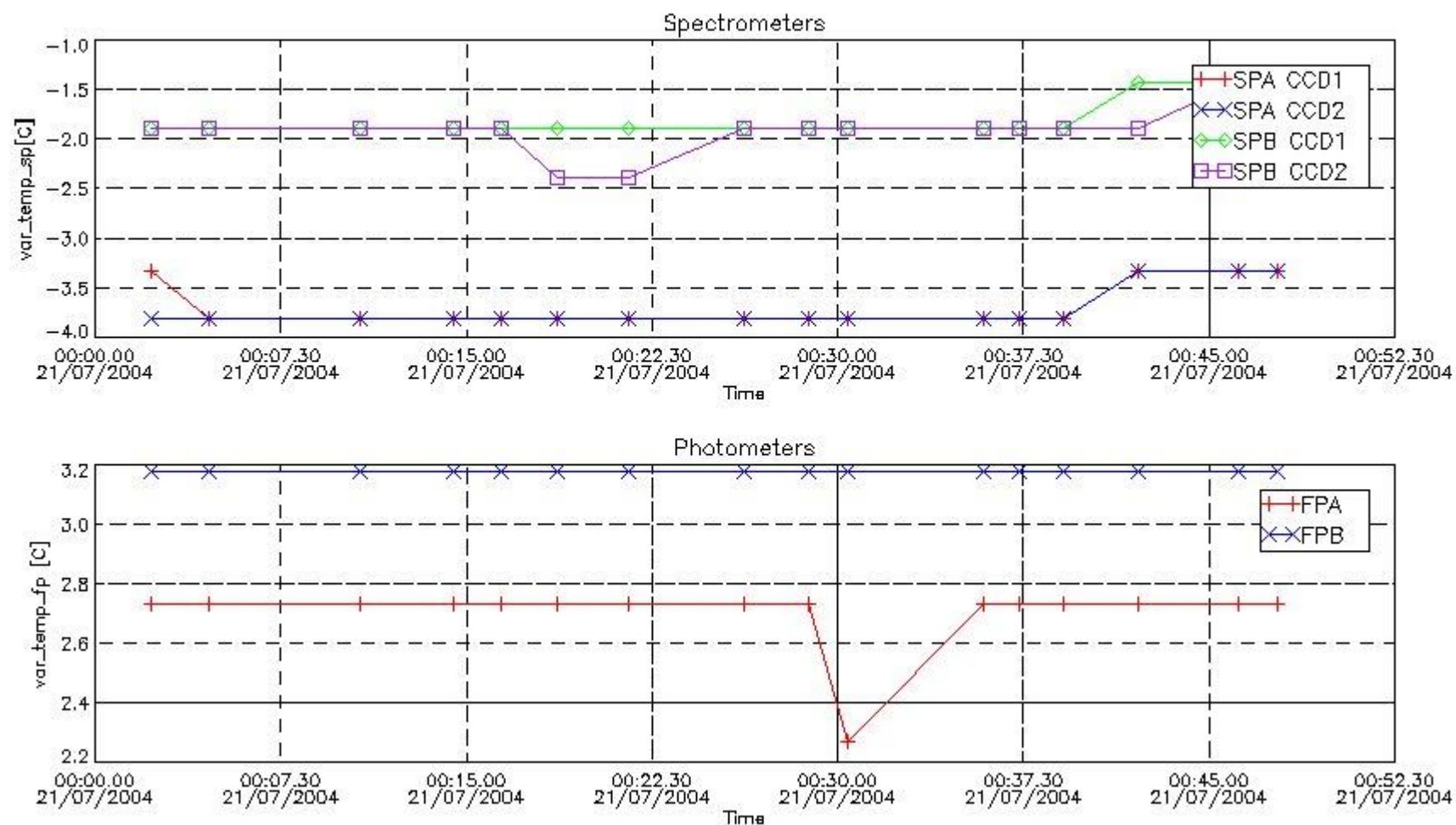
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Summary of processed GOM_TRA_1P products

!Warning: No products without errors in DARK limb contitions found

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040721_000216_000000372028_00417_12495_0012.N1	21-JUL-2004 00:02:16	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	12495	No
GOM_TRA_1PNPDE20040721_000436_000000392028_00417_12495_0013.N1	21-JUL-2004 00:04:36	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	12495	No
GOM_TRA_1PNPDE20040721_001040_000000402028_00417_12495_0014.N1	21-JUL-2004 00:10:40	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	12495	No
GOM_TRA_1PNPDE20040721_001430_000000402028_00417_12495_0015.N1	21-JUL-2004 00:14:30	Bright	40.000	144	18Del Cyg	2.8600	11000.	80	12495	No
GOM_TRA_1PNPDE20040721_001626_000000502028_00417_12495_0016.N1	21-JUL-2004 00:16:26	Bright	50.000	19	50Alp Cyg	1.2460	10500.	100	12495	No
GOM_TRA_1PNPDE20040721_001841_000000392028_00417_12495_0017.N1	21-JUL-2004 00:18:41	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	12495	No
GOM_TRA_1PNPDE20040721_002134_000000442028_00417_12495_0018.N1	21-JUL-2004 00:21:34	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	12495	No
GOM_TRA_1PNPDE20040721_002611_000000362028_00417_12495_0019.N1	21-JUL-2004 00:26:11	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	12495	No
GOM_TRA_1PNPDE20040721_002847_000000542028_00417_12495_0020.N1	21-JUL-2004 00:28:47	Bright	53.500	74	11Bet Cas	2.2680	6600.0	107	12495	No
GOM_TRA_1PNPDE20040721_003023_000000502028_00417_12495_0021.N1	21-JUL-2004 00:30:23	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	12495	No
GOM_TRA_1PNPDE20040721_003553_000000452028_00417_12495_0022.N1	21-JUL-2004 00:35:53	Bright	44.500	160	23Gam Per	2.9300	4700.0	89	12495	No
GOM_TRA_1PNPDE20040721_003719_000000462028_00417_12495_0023.N1	21-JUL-2004 00:37:19	Bright	46.000	35	33Alp Per	1.7950	6250.0	92	12495	No
GOM_TRA_1PNPDE20040721_003908_000000692028_00417_12495_0024.N1	21-JUL-2004 00:39:08	Twilight	68.500	73	57Gam1And	2.2600	13100.	137	12495	No
GOM_TRA_1PNPDE20040721_004207_000001322028_00417_12495_0025.N1	21-JUL-2004 00:42:07	Twilight	131.50	53	43Bet And	2.0480	3300.0	263	12495	No
GOM_TRA_1PNPDE20040721_004612_000000522028_00417_12495_0026.N1	21-JUL-2004 00:46:12	Twilight	51.500	146	25Eta Tau	2.8730	15200.	103	12495	No
GOM_TRA_1PNPDE20040721_004747_000000472028_00417_12495_0027.N1	21-JUL-2004 00:47:47	Twilight	47.000	13	87Alp Tau	0.86700	3800.0	94	12495	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

No products without errors in DARK limb conditions found. No plot performed.

5. Demodulation flag and quality information monitoring

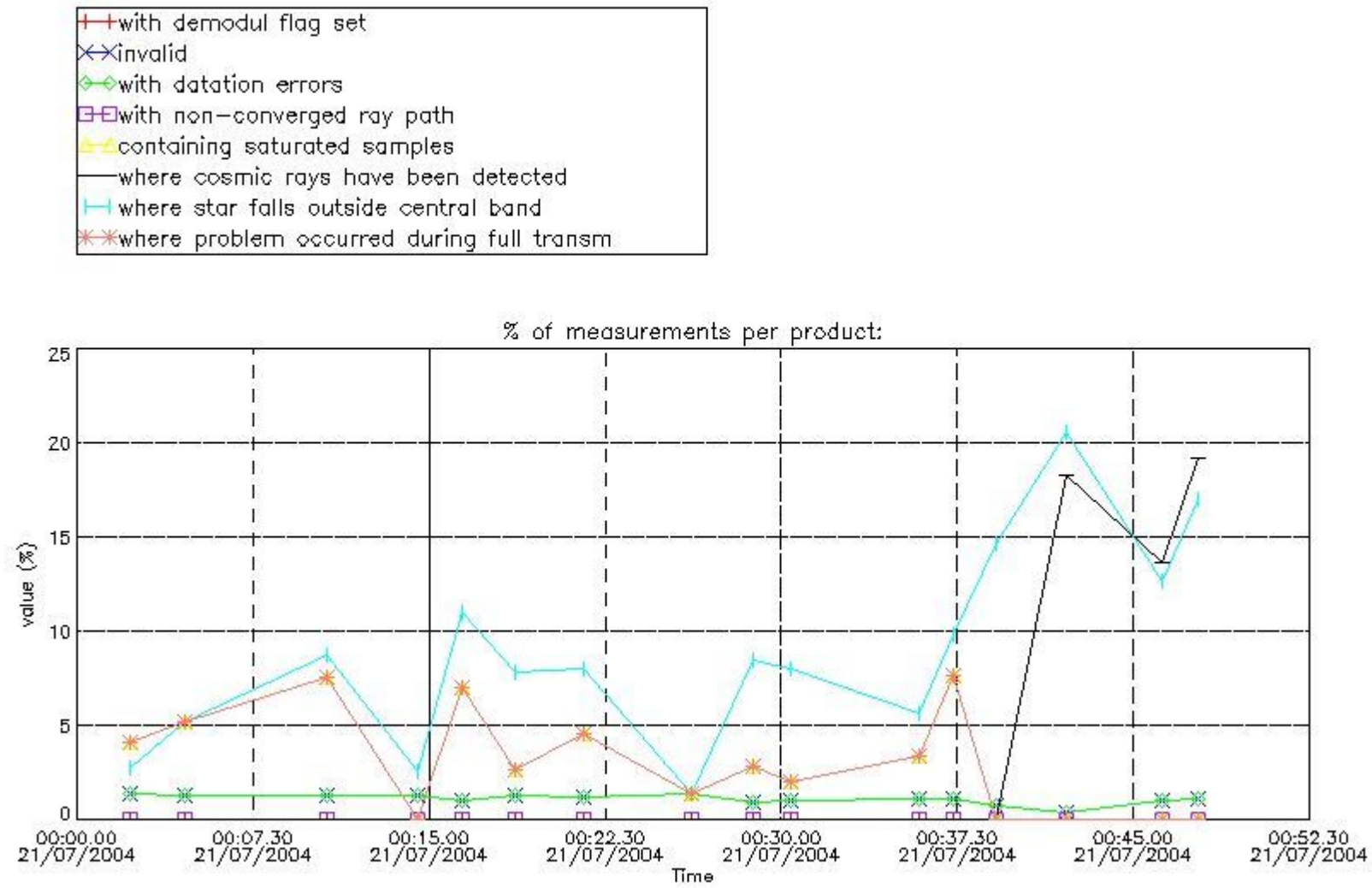
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	0.00000 %
Reference spectrum computed from DB:	0.00000 %

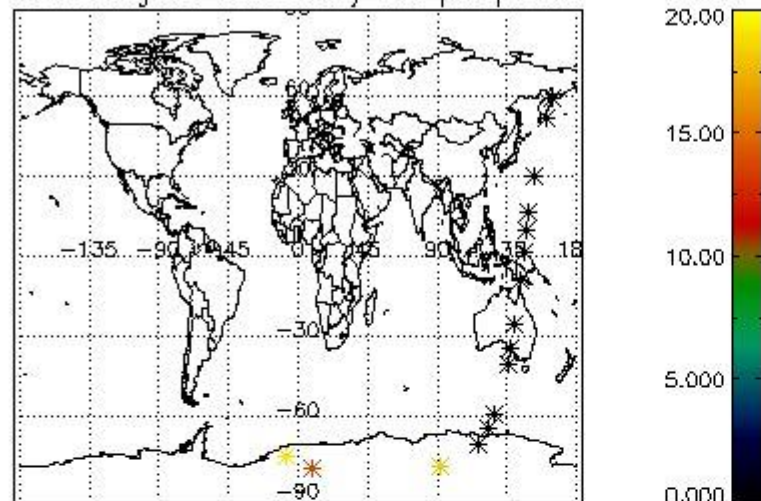
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

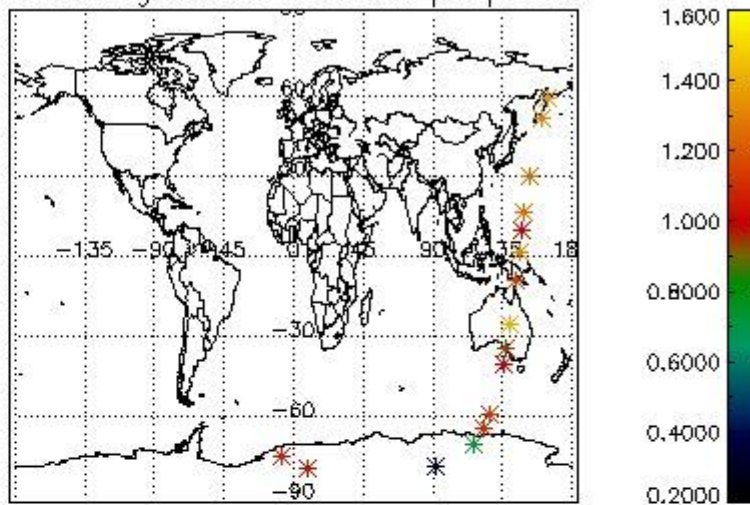


5.3 Plot quality information per product (world map)

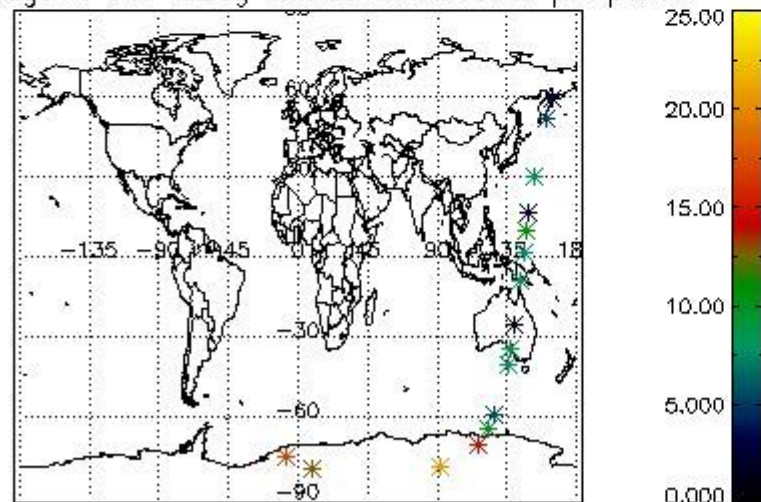
Percentage of cosmic ray hits per profile



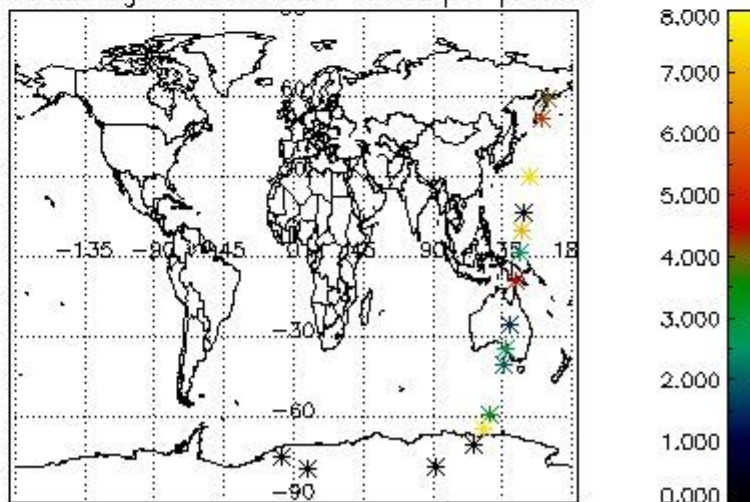
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



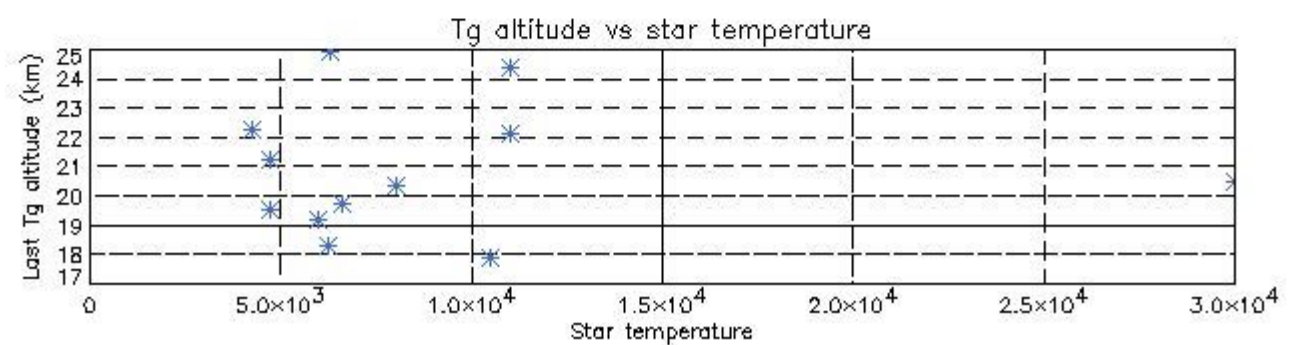
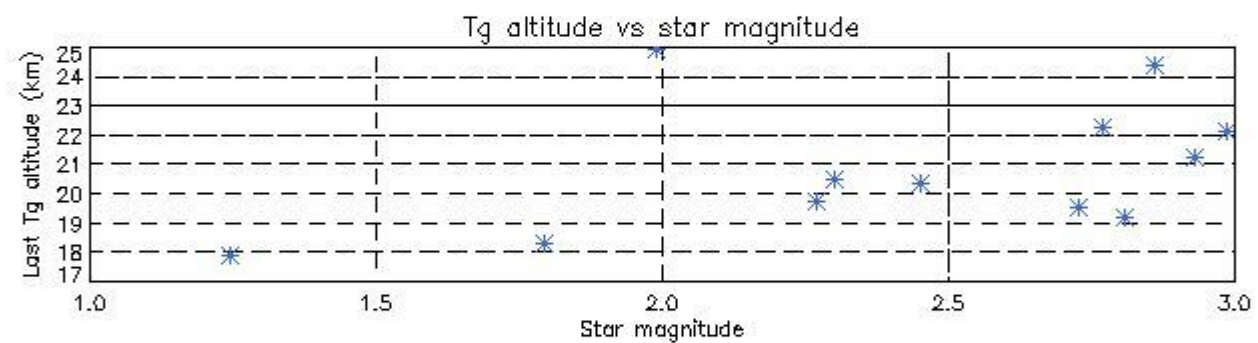
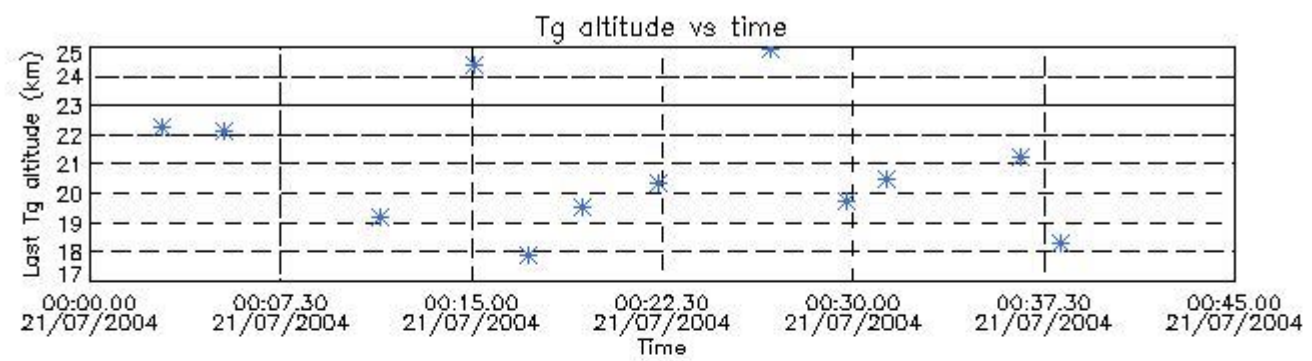
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	NaN	20.874	13.062
St. deviation:	NaN	2.2200	1.1652
Maximum:	NaN	24.912	14.157
Minimum:	NaN	17.915	11.887
Number of data:	NaN	12.000	4.0000

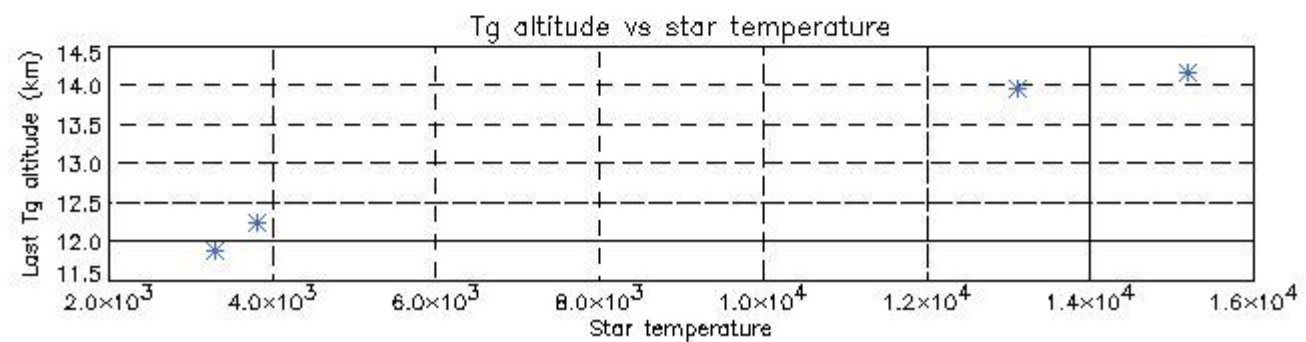
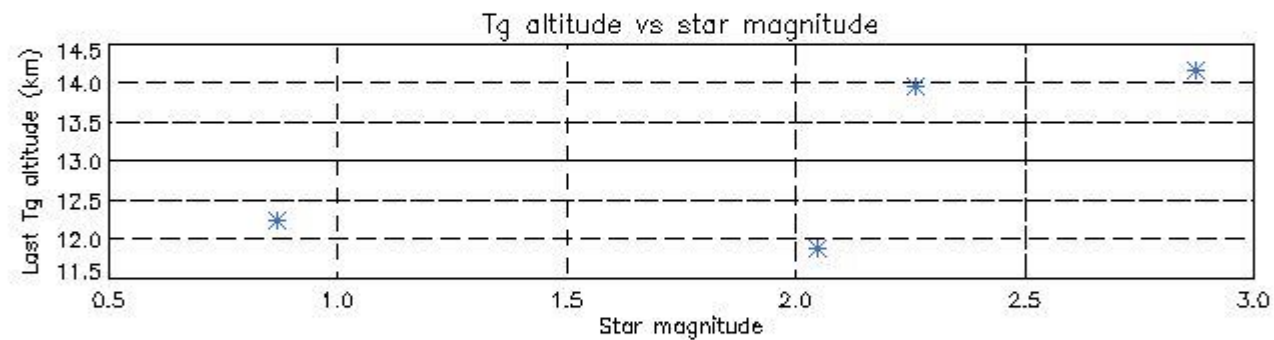
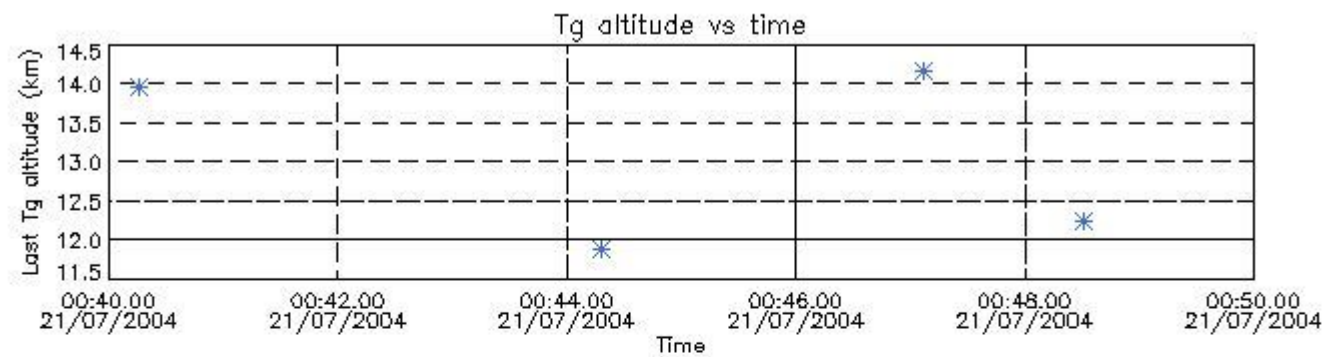
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

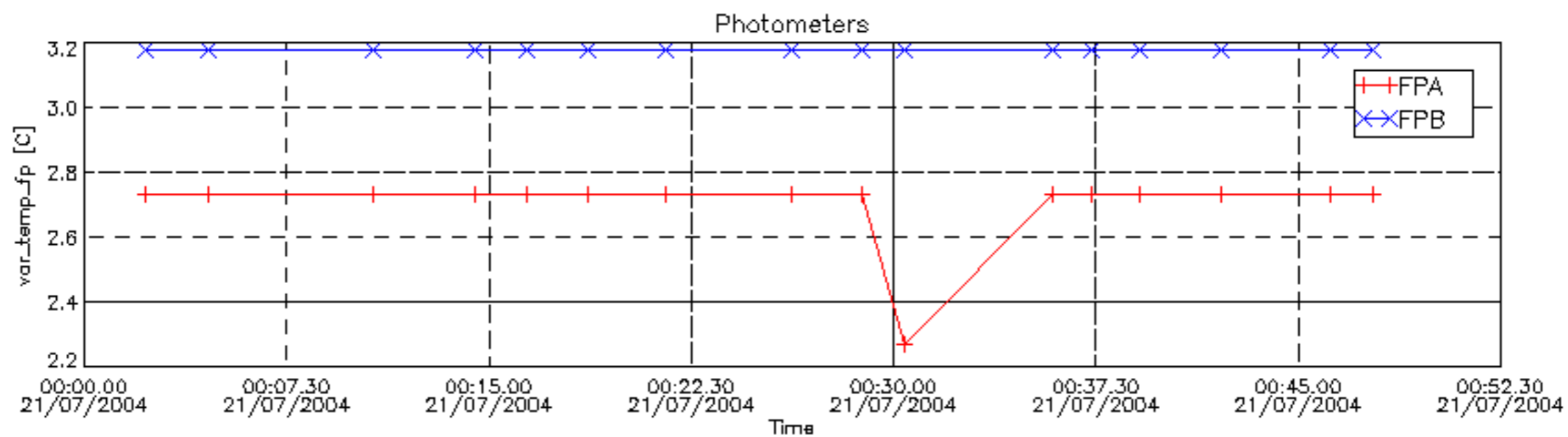
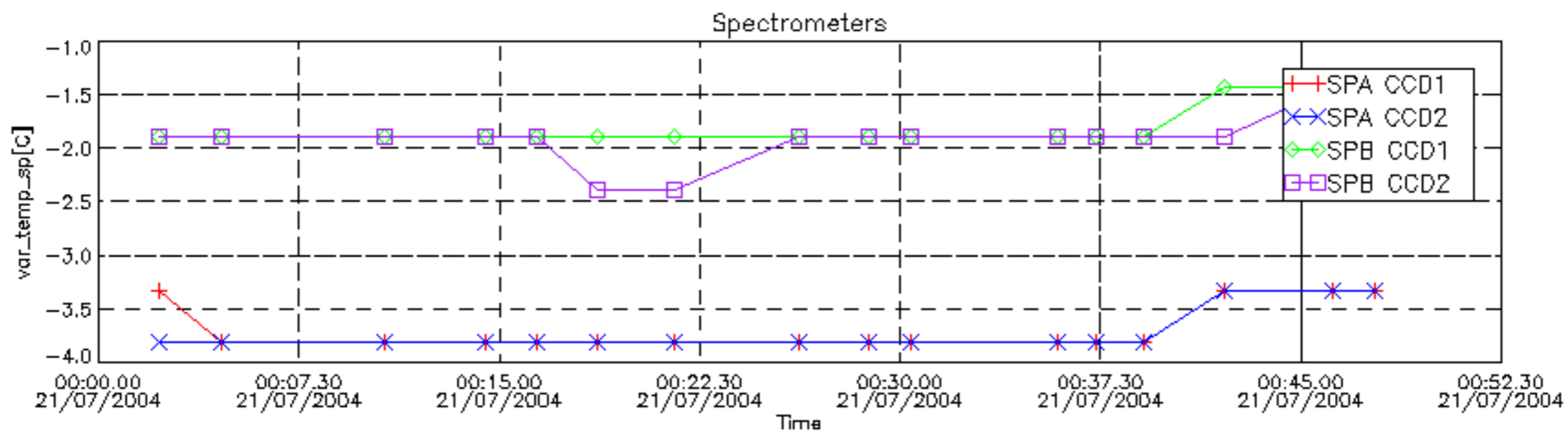
Tangent altitude at which the star is lost

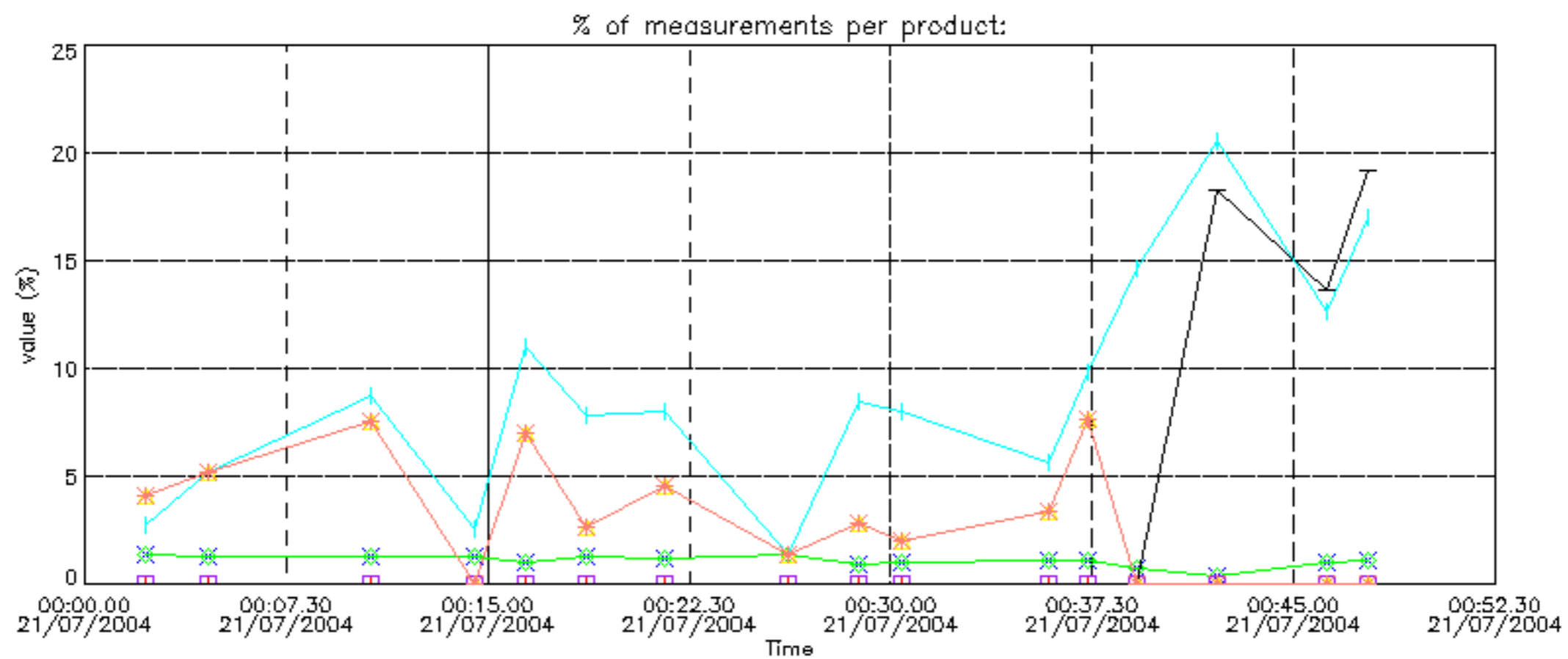
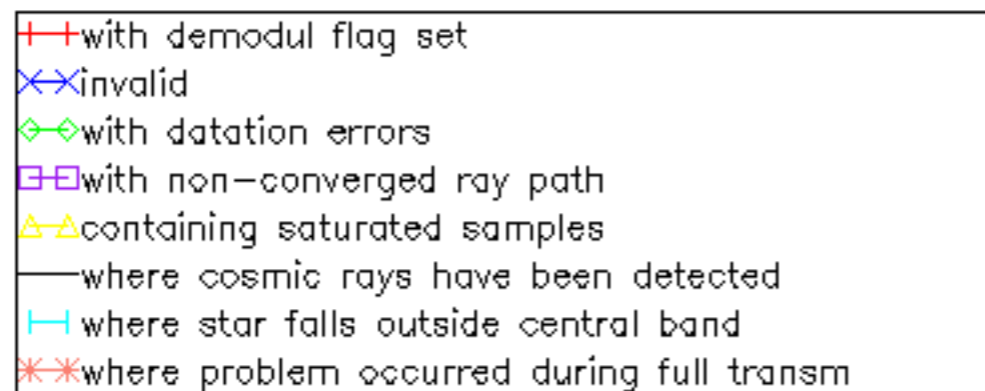


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

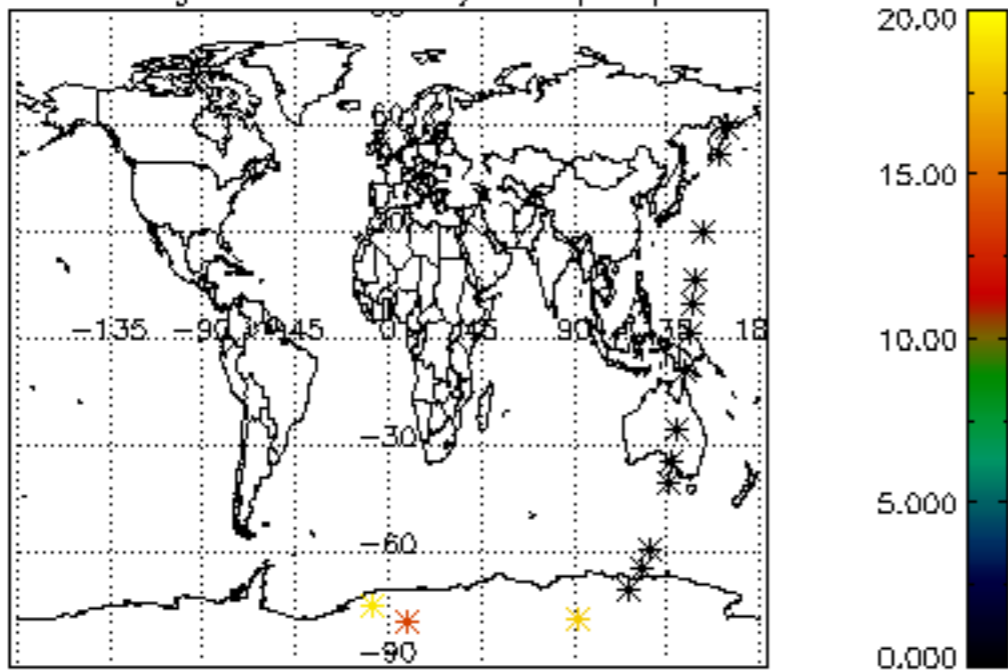
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	NaN	NaN	1461.9	1447.0
St. deviation:	NaN	NaN	7.8235	8.5443
Maximum:	NaN	NaN	1511.0	1494.0
Minimum:	NaN	NaN	1443.0	1437.0
Number of data:	NaN	NaN	13450.	13450.

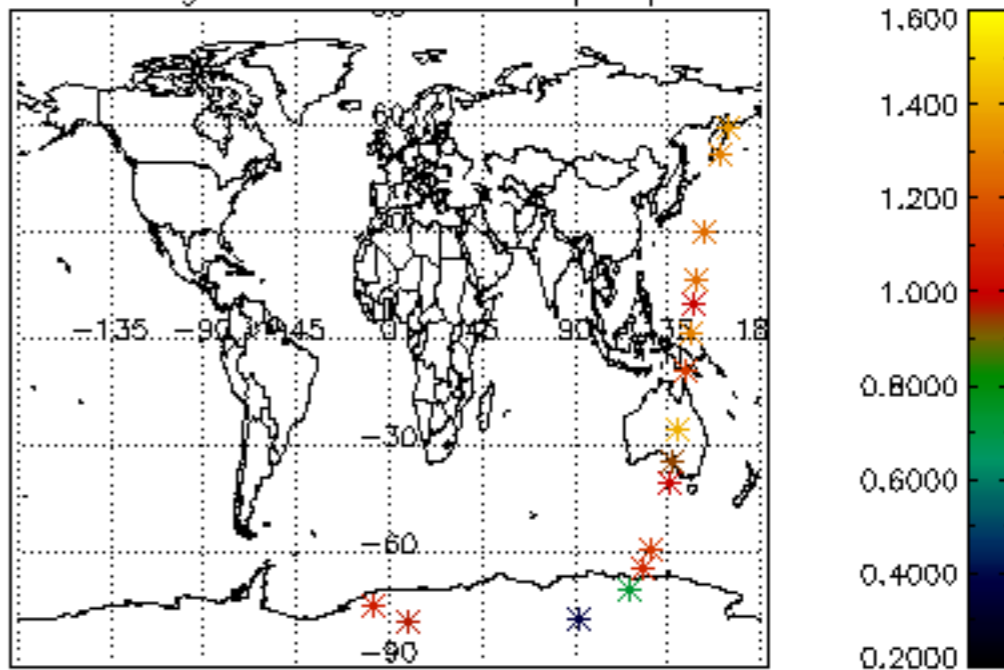




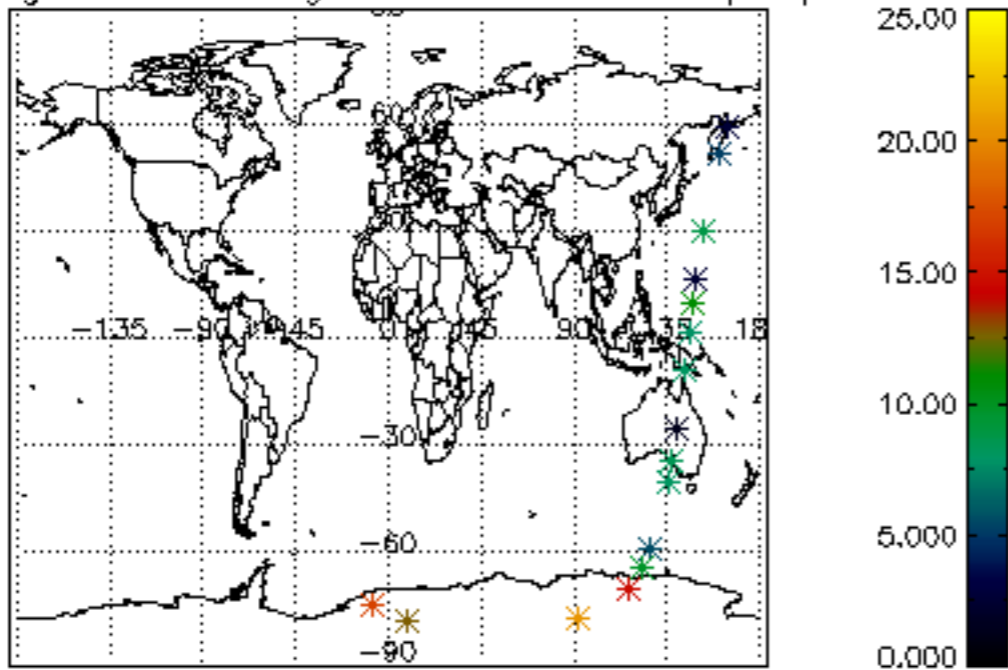
Percentage of cosmic ray hits per profile



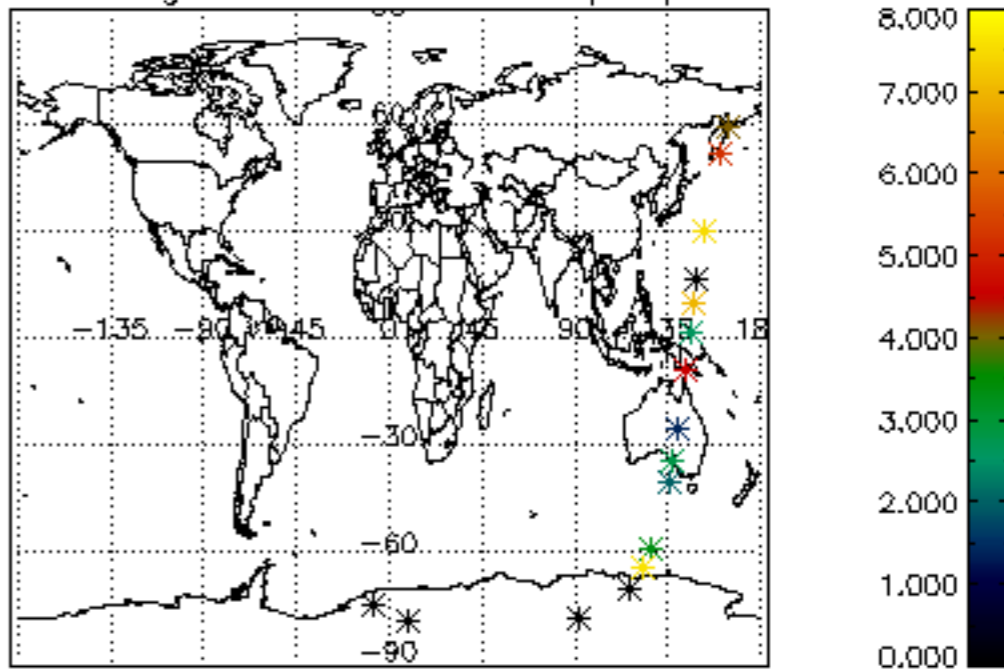
Percentage of datation errors per profile



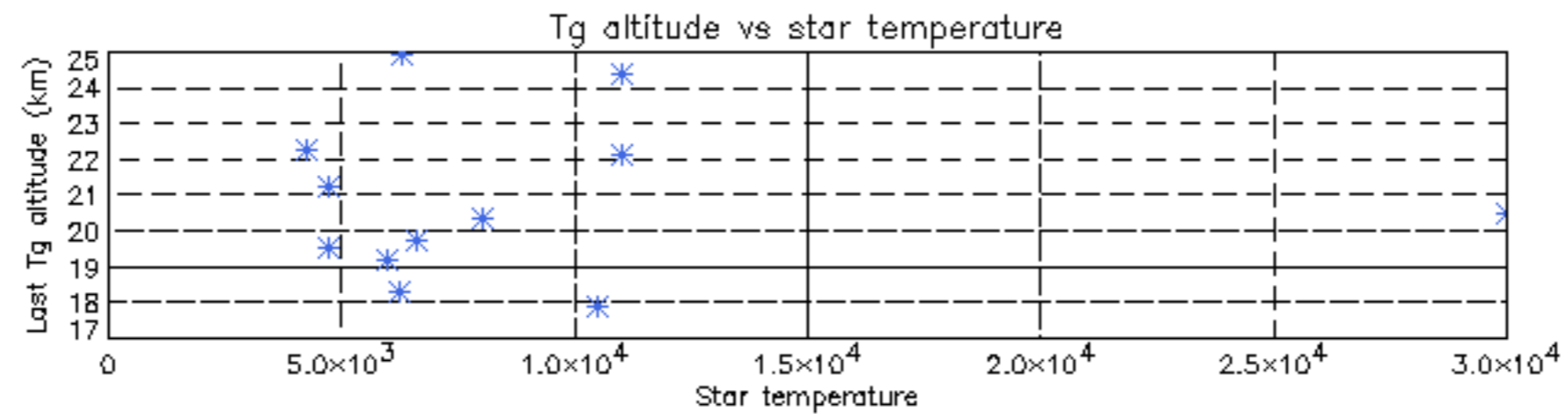
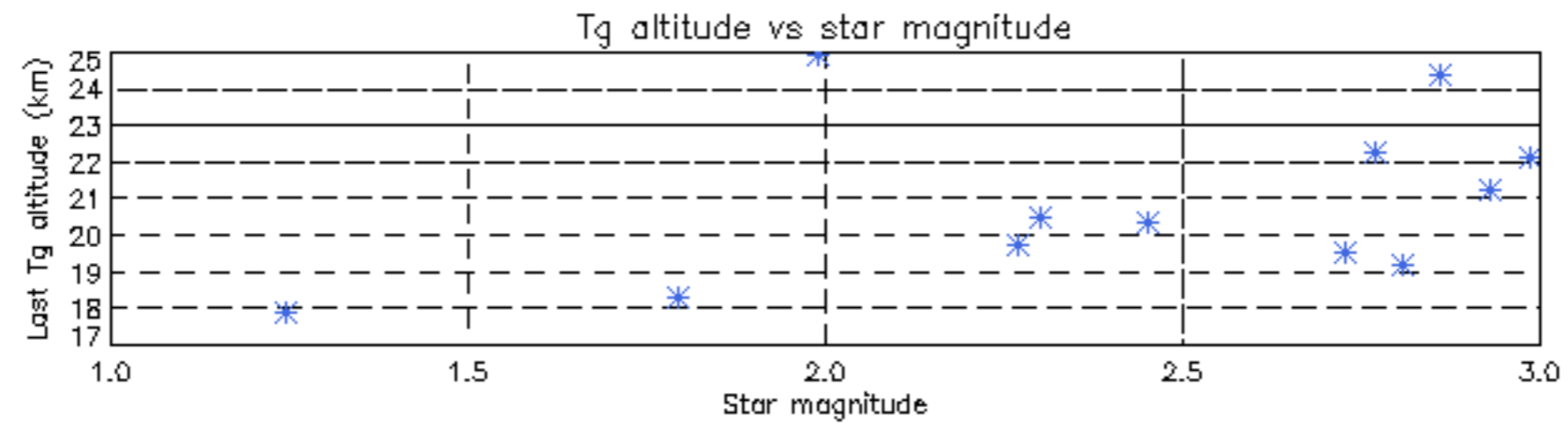
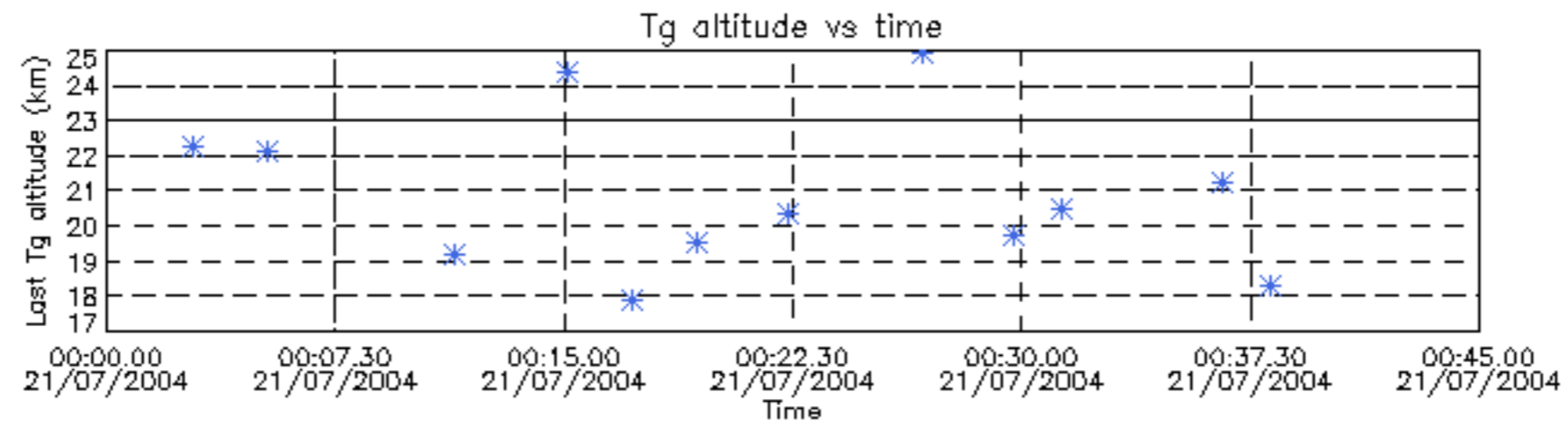
Percentage of star falling outside central band per profile



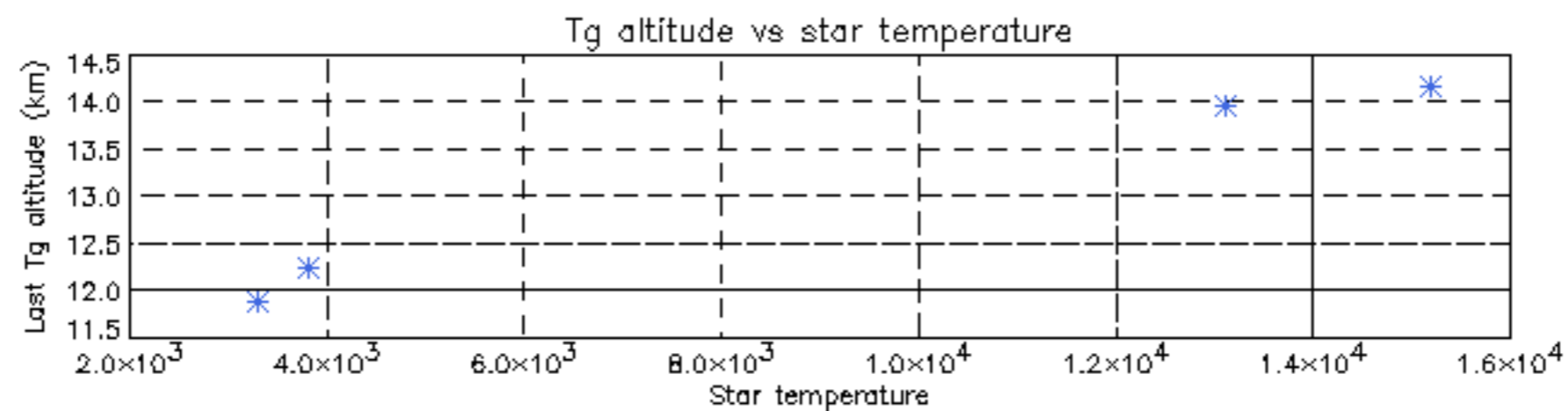
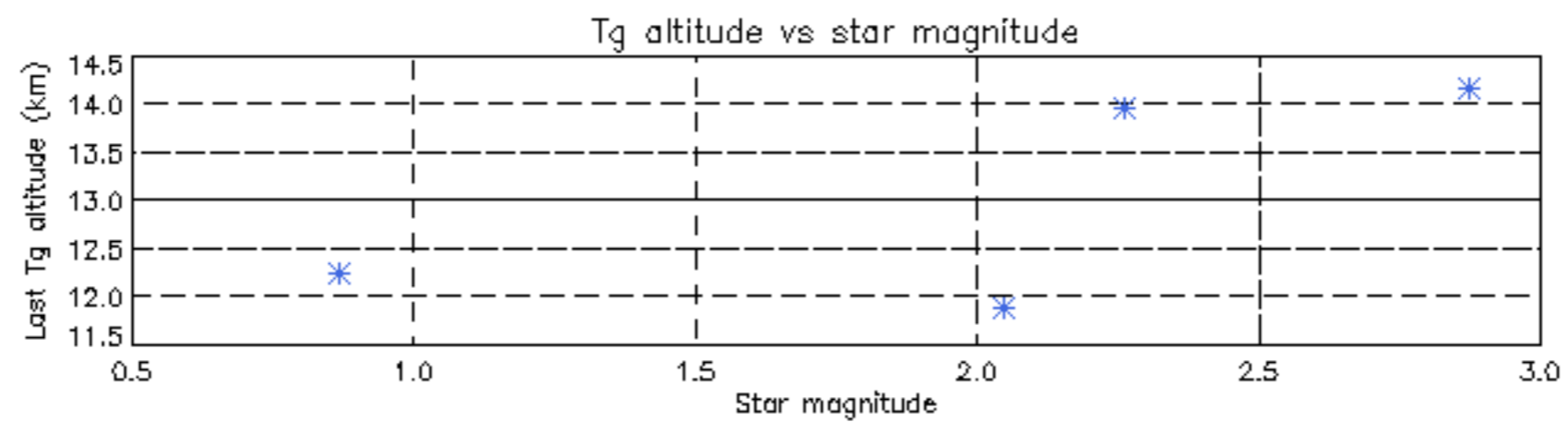
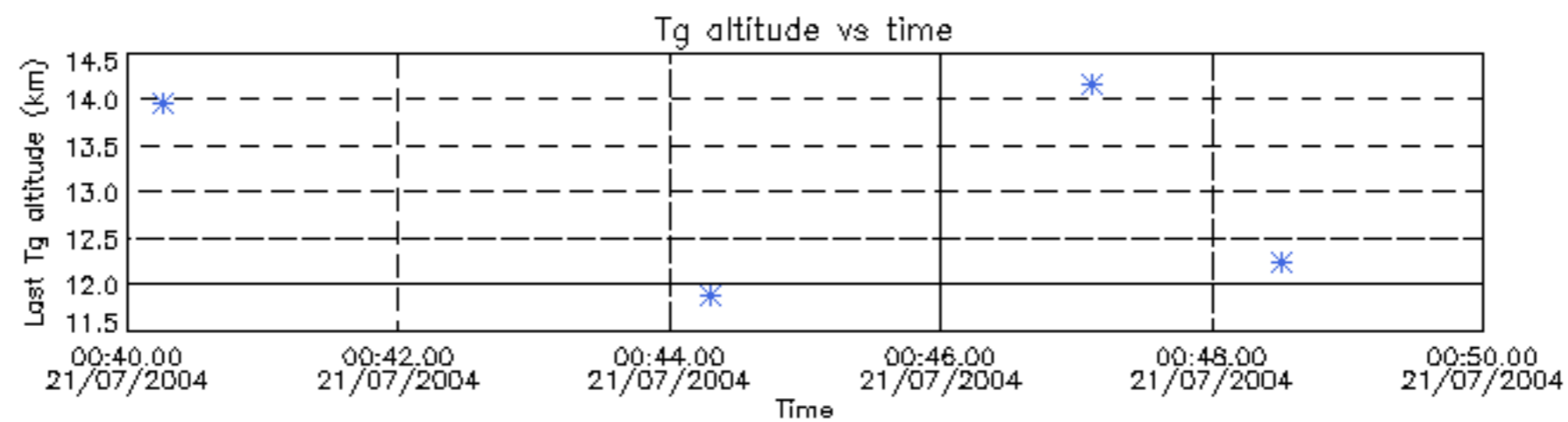
Percentage of saturation errors per profile



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL_0PNPDE20040701_012416_000043092028_00131_12209_0074.N1

1;	-831.6;	01-JUL-2004	01:24:16;	Dark	;	47.5;	165;	34Gam Eri	;	2.95;	3200;occ;	95;	9;	12209
2;	-494.6;	01-JUL-2004	01:29:53;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12209
3;	-163.9;	01-JUL-2004	01:35:23;	Dark	;	77.5;	52;	16Bet Cet	;	2.04;	4500;occ;	155;	0;	12209
4;	36.9;	01-JUL-2004	01:38:44;	Dark	;	53.0;	9;	Alp Eri	;	0.45;	24000;occ;	106;	0;	12210
5;	314.6;	01-JUL-2004	01:43:22;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12210
6;	489.7;	01-JUL-2004	01:46:17;	Dark	;	58.5;	63;	Bet Gru	;	2.15;	2800;occ;	117;	0;	12210
7;	585.8;	01-JUL-2004	01:47:53;	Dark	;	86.5;	18;	24Alp PsA	;	1.17;	9700;occ;	173;	0;	12210
8;	746.2;	01-JUL-2004	01:50:33;	Dark	;	44.0;	45;	Alp Pav	;	1.94;	26000;occ;	88;	0;	12210
9;	975.1;	01-JUL-2004	01:54:22;	Dark	;	40.0;	141;	Bet Ara	;	2.84;	4600;occ;	80;	0;	12210
10;	1061.4;	01-JUL-2004	01:55:49;	Dark	;	40.0;	147;	Alp Ara	;	2.88;	26000;occ;	80;	0;	12210
11;	1169.8;	01-JUL-2004	01:57:37;	Dark	;	45.5;	40;	The Sco	;	1.86;	7100;occ;	91;	0;	12210
12;	1269.3;	01-JUL-2004	01:59:17;	Dark	;	46.0;	25;	35Lam Sco	;	1.62;	28000;occ;	92;	0;	12210
13;	1354.2;	01-JUL-2004	02:00:41;	Dark	;	55.0;	116;	19Del Sgr	;	2.70;	4100;occ;	110;	0;	12210
14;	1480.2;	01-JUL-2004	02:02:47;	Bright;		45.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	90;	0;	12210
15;	1641.2;	01-JUL-2004	02:05:28;	Bright;		39.0;	86;	35Eta Oph	;	2.43;	10200;occ;	78;	0;	12210
16;	1744.8;	01-JUL-2004	02:07:12;	Bright;		41.0;	98;	13Zet Oph	;	2.57;	30000;occ;	82;	0;	12210
17;	1877.5;	01-JUL-2004	02:09:25;	Bright;		40.5;	120;	1Del Oph	;	2.73;	3200;occ;	81;	0;	12210
18;	1979.7;	01-JUL-2004	02:11:07;	Bright;		39.5;	126;	60Bet Oph	;	2.77;	4250;occ;	79;	0;	12210
19;	2119.5;	01-JUL-2004	02:13:27;	Bright;		39.0;	59;	55Alp Oph	;	2.08;	8900;occ;	78;	0;	12210
20;	2281.8;	01-JUL-2004	02:16:09;	Bright;		37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12210
21;	2445.7;	01-JUL-2004	02:18:53;	Bright;		37.5;	133;	40Zet Her	;	2.81;	6000;occ;	75;	0;	12210
22;	2647.9;	01-JUL-2004	02:22:15;	Bright;		48.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	97;	0;	12210
23;	2806.6;	01-JUL-2004	02:24:54;	Bright;		39.0;	130;	23Bet Dra	;	2.80;	5800;occ;	78;	0;	12210
24;	2948.0;	01-JUL-2004	02:27:15;	Bright;		39.0;	119;	14Eta Dra	;	2.73;	4700;occ;	78;	0;	12210
25;	3190.4;	01-JUL-2004	02:31:18;	Bright;		36.0;	60;	7Bet UMi	;	2.08;	3950;occ;	72;	0;	12210
26;	3339.1;	01-JUL-2004	02:33:46;	Bright;		43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;	12210
27;	3442.7;	01-JUL-2004	02:35:30;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	12210

/data4_2/GOMOS/level0/GOM_NL_0PNPDE20040701_024108_000057342028_00132_12210_0075.N1

1;	-2254.9;	01-JUL-2004	02:41:08;	Bright;		50.5;	74;	11Bet Cas	;	2.27;	6600;occ;	101;	0;	12210
2;	-2161.2;	01-JUL-2004	02:42:42;	Bright;		41.5;	110;	37Del Cas	;	2.68;	8900;occ;	83;	0;	12210
3;	-1976.0;	01-JUL-2004	02:45:47;	Bright;		46.5;	160;	23Gam Per	;	2.93;	4700;occ;	93;	0;	12210
4;	-1871.6;	01-JUL-2004	02:47:31;	Bright;		36.0;	175;	39Del Per	;	3.01;	19400;occ;	72;	0;	12210
5;	-1770.5;	01-JUL-2004	02:49:13;	Bright;		52.5;	73;	57Gam1And	;	2.26;	13100;occ;	105;	0;	12210
6;	-1616.9;	01-JUL-2004	02:51:46;	Dark	;	68.5;	53;	43Bet And	;	2.05;	3300;occ;	137;	0;	12210
7;	-1355.5;	01-JUL-2004	02:56:08;	Dark	;	66.5;	50;	13Alp Ari	;	2.01;	4250;occ;	133;	0;	12210
8;	-1058.3;	01-JUL-2004	03:01:05;	Dark	;	58.0;	94;	92Alp Cet	;	2.53;	3100;occ;	116;	0;	12210
9;	-835.8;	01-JUL-2004	03:04:47;	Dark	;	46.5;	165;	34Gam Eri	;	2.95;	3200;occ;	93;	0;	12210
10;	-494.4;	01-JUL-2004	03:10:29;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12210
11;	-330.3;	01-JUL-2004	03:13:13;	Dark	;	40.5;	157;	The1Eri	;	2.91;	9300;occ;	81;	0;	12210
12;	-162.7;	01-JUL-2004	03:16:00;	Dark	;	90.5;	52;	16Bet Cet	;	2.04;	4500;occ;	181;	0;	12210
13;	38.0;	01-JUL-2004	03:19:21;	Dark	;	50.0;	9;	Alp Eri	;	0.45;	24000;occ;	100;	0;	12211
14;	314.9;	01-JUL-2004	03:23:58;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12211
15;	490.7;	01-JUL-2004	03:26:54;	Dark	;	65.5;	63;	Bet Gru	;	2.15;	2800;occ;	131;	0;	12211
16;	587.9;	01-JUL-2004	03:28:31;	Dark	;	82.5;	18;	24Alp PsA	;	1.17;	9700;occ;	165;	0;	12211
17;	747.1;	01-JUL-2004	03:31:10;	Dark	;	44.5;	45;	Alp Pav	;	1.94;	26000;occ;	89;	0;	12211
18;	975.2;	01-JUL-2004	03:34:58;	Dark	;	41.0;	141;	Bet Ara	;	2.84;	4600;occ;	82;	0;	12211
19;	1062.4;	01-JUL-2004	03:36:25;	Dark	;	41.0;	147;	Alp Ara	;	2.88;	26000;occ;	82;	0;	12211
20;	1170.6;	01-JUL-2004	03:38:14;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;occ;	83;	0;	12211
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21;	-816.7;	05-JUL-2004	11:02:15;	Dark	;	46.5;	165;	34Gam	Eri	;	2.95;	3200;	occ;	93;	0;	12272
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33;	3584.2;	22-JUL-2004	06:39:21;	Bright;	52.0;	74;	11Bet Cas	;	2.27;	6600;occ;	104;	0;	12513	

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 5;-1823.1; 22-JUL-2004 06:49:50; Bright; 69.0; 73; 57Gam1And ; 2.26; 13100;occ; 138; 0;12513
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 7;-1388.7; 22-JUL-2004 06:57:04; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;12513
 8;-1293.5; 22-JUL-2004 06:58:39; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;12513
 9;-1167.3; 22-JUL-2004 07:00:45; Dark ; 39.5; 27; 24Gam Ori ; 1.64; 26000;occ; 79; 0;12513
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 12; -774.6; 22-JUL-2004 07:07:18; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;12513
 13; -512.9; 22-JUL-2004 07:11:40; Dark ; 40.5; 108; Alp Col ; 2.65; 15200;occ; 81; 0;12513
 14; -384.5; 22-JUL-2004 07:13:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12513
 15; -144.6; 22-JUL-2004 07:17:48; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;12513
 16; 214.8; 22-JUL-2004 07:23:48; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;12514
 17; 389.5; 22-JUL-2004 07:26:42; Dark ; 40.5; 135; Bet Hyi ; 2.82; 5800;occ; 81; 0;12514
 18; 653.6; 22-JUL-2004 07:31:06; Dark ; 45.0; 148; Alp Tuc ; 2.88; 4100;occ; 90; 0;12514
 19; 754.4; 22-JUL-2004 07:32:47; Dark ; 65.0; 63; Bet Gru ; 2.15; 2800;occ; 130; 0;12514
 20; 839.8; 22-JUL-2004 07:34:12; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;12514
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 22; 1262.6; 22-JUL-2004 07:41:15; Dark ; 41.0; 178; Iot1Sco ; 3.02; 6550;occ; 82; 0;12514
 23; 1338.0; 22-JUL-2004 07:42:31; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;12514
 24; 1452.1; 22-JUL-2004 07:44:25; Bright; 38.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 77; 0;12514
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 19; -914.8; 22-JUL-2004 08:45:34; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;12514
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 21; -512.7; 22-JUL-2004 08:52:16; Dark ; 38.5; 108; Alp Col ; 2.65; 15200;occ; 77; 0;12514
 22; -383.9; 22-JUL-2004 08:54:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12514
 23; -144.1; 22-JUL-2004 08:58:24; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;12514
 24; 215.5; 22-JUL-2004 09:04:24; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;12515
 25; 389.7; 22-JUL-2004 09:07:18; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;12515
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 28; 840.4; 22-JUL-2004 09:14:49; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;12515
 29; 1014.5; 22-JUL-2004 09:17:43; Dark ; 84.5; 18; 24Alp PsA ; 1.17; 9700;occ; 169; 0;12515
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 31; 1452.2; 22-JUL-2004 09:25:01; Bright; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;12515
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19; -722.5; 22-JUL-2004 10:29:22; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;12515
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21; -383.4; 22-JUL-2004 10:35:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12515
22; -142.6; 22-JUL-2004 10:39:02; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;12515
23; 215.7; 22-JUL-2004 10:45:00; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;12516
24; 389.4; 22-JUL-2004 10:47:54; Dark ; 39.0; 135; Bet Hyi ; 2.82; 5800;occ; 78; 0;12516
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28; 1018.3; 22-JUL-2004 10:58:23; Dark ; 81.0; 18; 24Alp PsA ; 1.17; 9700;occ; 162; 0;12516
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27; 755.4; 22-JUL-2004 12:34:36; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;12517
28; 841.1; 22-JUL-2004 12:36:01; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;12517
29; 1018.3; 22-JUL-2004 12:38:59; Dark ; 81.5; 18; 24Alp PsA ; 1.17; 9700;occ; 163; 0;12517
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9;-2454.3; 22-JUL-2004 13:21:42; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;12517
10;-2354.5; 22-JUL-2004 13:23:22; Bright; 48.5; 76; 27Gam Cas ; 2.30; 30000;occ; 97; 0;12517
11;-2017.6; 22-JUL-2004 13:28:59; Bright; 64.0; 160; 23Gam Per ; 2.93; 4700;occ; 128; 0;12517

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