

GOMOS Daily Report 17-JUN-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](#)

[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	18JUN2004 03:41:09
Data source version	GOMOS/4.02
Start time of products	17-JUN-2004 (17JUN2004 00:00:00)
Stop time of products	18-JUN-2004 (18JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	42
Nb of prods with errors	0

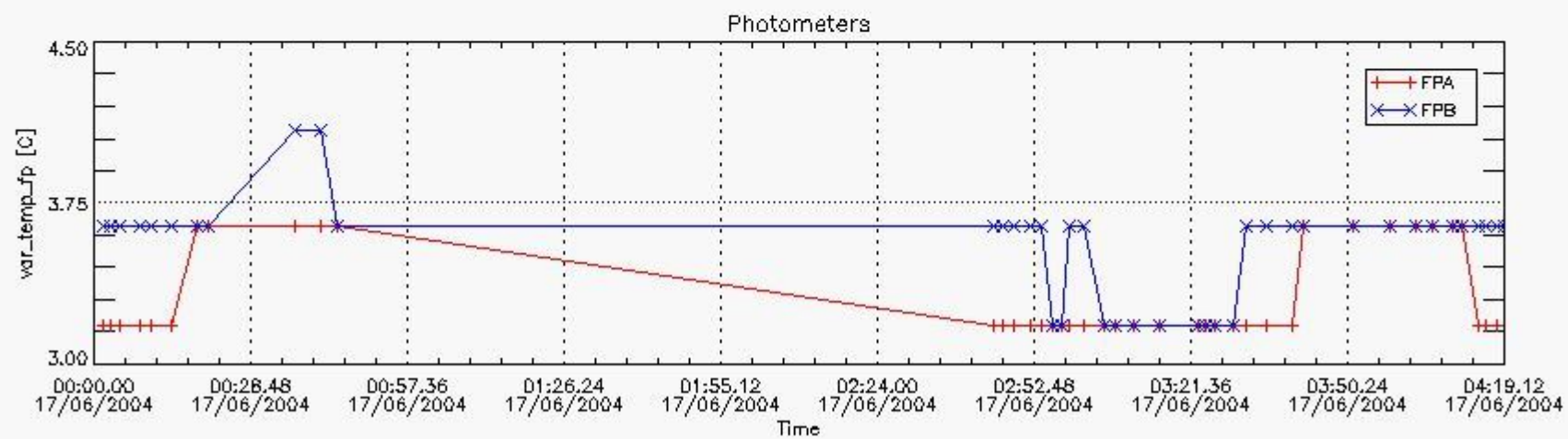
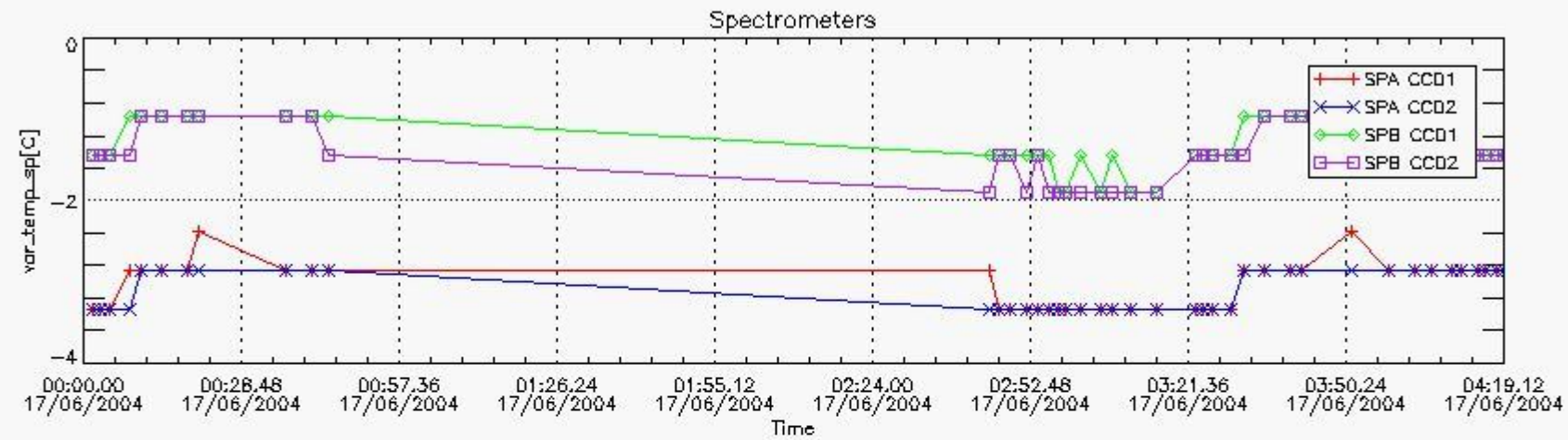
2. Summary of products arrived in PCF

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

2.2 Summary of processed GOM_TRA_1P products.

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040617_000141_000000652027_00431_12008_0015.N1	17-JUN-2004 00:01:41	Bright	65.000	74	11Bet Cas	2.2680	6600.0	130	12008	No
GOM_TRA_1PNPDE20040617_000306_000000452027_00431_12008_0016.N1	17-JUN-2004 00:03:06	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	12008	No
GOM_TRA_1PNPDE20040617_000453_000000362027_00431_12008_0017.N1	17-JUN-2004 00:04:53	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	12008	No
GOM_TRA_1PNPDE20040617_000820_000000482027_00431_12008_0018.N1	17-JUN-2004 00:08:20	Twilight	48.000	73	57Gam1And	2.2600	13100.	96	12008	No
GOM_TRA_1PNPDE20040617_001040_000000672027_00431_12008_0019.N1	17-JUN-2004 00:10:40	Twilight	67.000	53	43Bet And	2.0480	3300.0	134	12008	No
GOM_TRA_1PNPDE20040617_001415_000000562027_00431_12008_0020.N1	17-JUN-2004 00:14:15	Twilight	56.000	50	13Alp Ari	2.0070	4250.0	112	12008	No
GOM_TRA_1PNPDE20040617_001901_000000412027_00431_12008_0021.N1	17-JUN-2004 00:19:01	Twilight	40.500	94	92Alp Cet	2.5260	3100.0	81	12008	No
GOM_TRA_1PNPDE20040617_002103_000000822027_00431_12008_0022.N1	17-JUN-2004 00:21:03	Dark	82.000	140	88Gam Peg	2.8340	26000.	164	12008	No
GOM_TRA_1PNPDE20040617_003657_000000462027_00431_12008_0023.N1	17-JUN-2004 00:36:57	Dark	45.500	9	Alp Eri	0.45300	24000.	91	12008	No
GOM_TRA_1PNPDE20040617_004132_000000732027_00432_12009_0024.N1	17-JUN-2004 00:41:32	Dark	73.000	18	24Alp PsA	1.1660	9700.0	146	12009	No
GOM_TRA_1PNPDE20040617_004443_000000512027_00432_12009_0025.N1	17-JUN-2004 00:44:43	Dark	51.000	31	Alp Gru	1.7340	15200.	102	12009	No
GOM_TRA_1PNPDE20040617_024518_000000402027_00433_12010_0000.N1	17-JUN-2004 02:45:18	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	12010	No
GOM_TRA_1PNPDE20040617_024701_000000402027_00433_12010_0001.N1	17-JUN-2004 02:47:01	Bright	40.000	98	13Zet Oph	2.5710	30000.	80	12010	No
GOM_TRA_1PNPDE20040617_024907_000000392027_00433_12010_0002.N1	17-JUN-2004 02:49:07	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12010	No
GOM_TRA_1PNPDE20040617_025210_000000382027_00433_12010_0003.N1	17-JUN-2004 02:52:10	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	12010	No
GOM_TRA_1PNPDE20040617_025413_000000432027_00433_12010_0004.N1	17-JUN-2004 02:54:13	Bright	42.500	59	55Alp Oph	2.0800	8900.0	85	12010	No
GOM_TRA_1PNPDE20040617_025616_000000382027_00433_12010_0005.N1	17-JUN-2004 02:56:16	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	12010	No
GOM_TRA_1PNPDE20040617_025752_000000392027_00433_12010_0006.N1	17-JUN-2004 02:57:52	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	12010	No
GOM_TRA_1PNPDE20040617_025916_000000412027_00433_12010_0007.N1	17-JUN-2004 02:59:16	Bright	40.500	133	40Zet Her	2.8070	6000.0	81	12010	No
GOM_TRA_1PNPDE20040617_030154_000000362027_00433_12010_0008.N1	17-JUN-2004 03:01:54	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	12010	No
GOM_TRA_1PNPDE20040617_030541_000000412027_00433_12010_0009.N1	17-JUN-2004 03:05:41	Bright	40.500	39	85Eta UMa	1.8540	24000.	81	12010	No
GOM_TRA_1PNPDE20040617_030740_000000352027_00433_12010_0010.N1	17-JUN-2004 03:07:40	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	12010	No
GOM_TRA_1PNPDE20040617_031112_000000352027_00433_12010_0011.N1	17-JUN-2004 03:11:12	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	12010	No
GOM_TRA_1PNPDE20040617_031548_000000382027_00433_12010_0012.N1	17-JUN-2004 03:15:48	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	12010	No
GOM_TRA_1PNPDE20040617_032252_000000472027_00433_12010_0013.N1	17-JUN-2004 03:22:52	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	12010	No
GOM_TRA_1PNPDE20040617_032417_000000462027_00433_12010_0014.N1	17-JUN-2004 03:24:17	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	12010	No
GOM_TRA_1PNPDE20040617_032604_000000372027_00433_12010_0015.N1	17-JUN-2004 03:26:04	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	12010	No
GOM_TRA_1PNPDE20040617_032932_000000402027_00433_12010_0016.N1	17-JUN-2004 03:29:32	Twilight	39.500	73	57Gam1And	2.2600	13100.	79	12010	No
GOM_TRA_1PNPDE20040617_033153_000000572027_00433_12010_0017.N1	17-JUN-2004 03:31:53	Twilight	57.000	53	43Bet And	2.0480	3300.0	114	12010	No
GOM_TRA_1PNPDE20040617_033527_000000542027_00433_12010_0018.N1	17-JUN-2004 03:35:27	Twilight	54.000	50	13Alp Ari	2.0070	4250.0	108	12010	No
GOM_TRA_1PNPDE20040617_034011_000000502027_00433_12010_0019.N1	17-JUN-2004 03:40:11	Twilight	50.000	94	92Alp Cet	2.5260	3100.0	100	12010	No
GOM_TRA_1PNPDE20040617_034217_000000802027_00433_12010_0020.N1	17-JUN-2004 03:42:17	Dark	79.500	140	88Gam Peg	2.8340	26000.	159	12010	No
GOM_TRA_1PNPDE20040617_035127_000000622027_00433_12010_0021.N1	17-JUN-2004 03:51:27	Dark	61.500	52	16Bet Cet	2.0370	4500.0	123	12010	No
GOM_TRA_1PNPDE20040617_035811_000000512027_00433_12010_0022.N1	17-JUN-2004 03:58:11	Dark	51.000	9	Alp Eri	0.45300	24000.	102	12010	No
GOM_TRA_1PNPDE20040617_040248_000000742027_00434_12011_0023.N1	17-JUN-2004 04:02:48	Dark	73.500	18	24Alp PsA	1.1660	9700.0	147	12011	No
GOM_TRA_1PNPDE20040617_040556_000000502027_00434_12011_0024.N1	17-JUN-2004 04:05:56	Dark	50.000	31	Alp Gru	1.7340	15200.	100	12011	No
GOM_TRA_1PNPDE20040617_040938_000000452027_00434_12011_0025.N1	17-JUN-2004 04:09:38	Twilight	44.500	45	Alp Pav	1.9400	26000.	89	12011	No
GOM_TRA_1PNPDE20040617_041126_000000432027_00434_12011_0026.N1	17-JUN-2004 04:11:26	Twilight	43.000	43	Alp TrA	1.9100	4250.0	86	12011	No
GOM_TRA_1PNPDE20040617_041432_000000432027_00434_12011_0027.N1	17-JUN-2004 04:14:32	Bright	42.500	141	Bet Ara	2.8400	4600.0	85	12011	No
GOM_TRA_1PNPDE20040617_041555_000000392027_00434_12011_0028.N1	17-JUN-2004 04:15:55	Bright	39.000	147	Alp Ara	2.8770	26000.	78	12011	No
GOM_TRA_1PNPDE20040617_041740_000000462027_00434_12011_0029.N1	17-JUN-2004 04:17:40	Bright	45.500	40	The Sco	1.8590	7100.0	91	12011	No
GOM_TRA_1PNPDE20040617_041911_000000472027_00434_12011_0030.N1	17-JUN-2004 04:19:11	Bright	46.500	38	20Eps Sgr	1.8360	11000.	93	12011	No

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



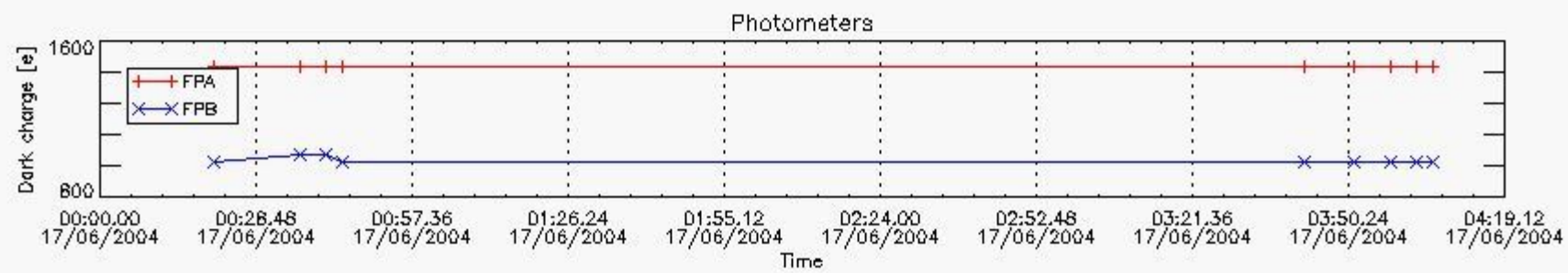
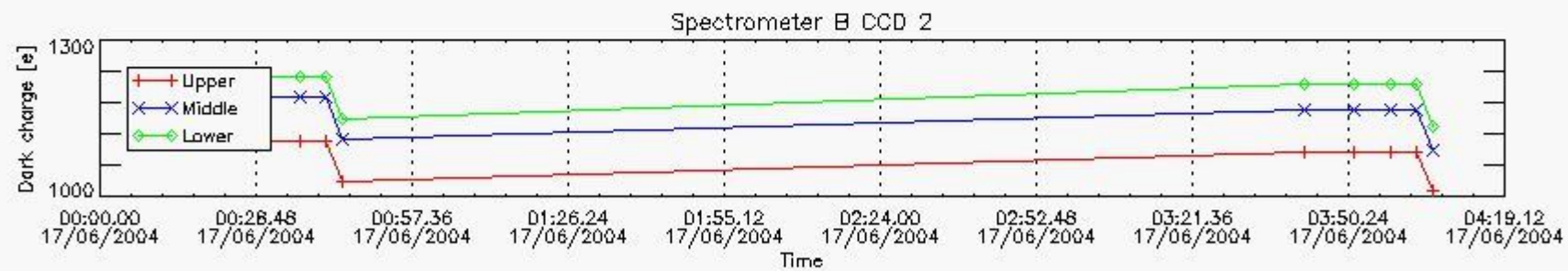
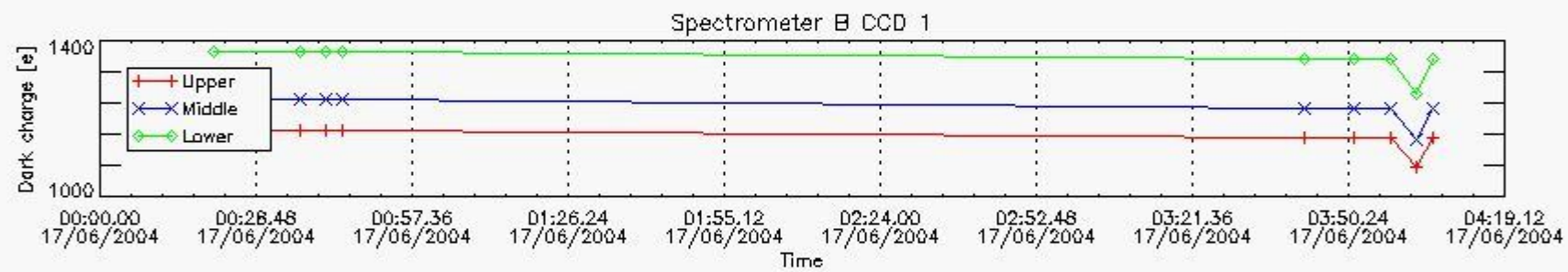
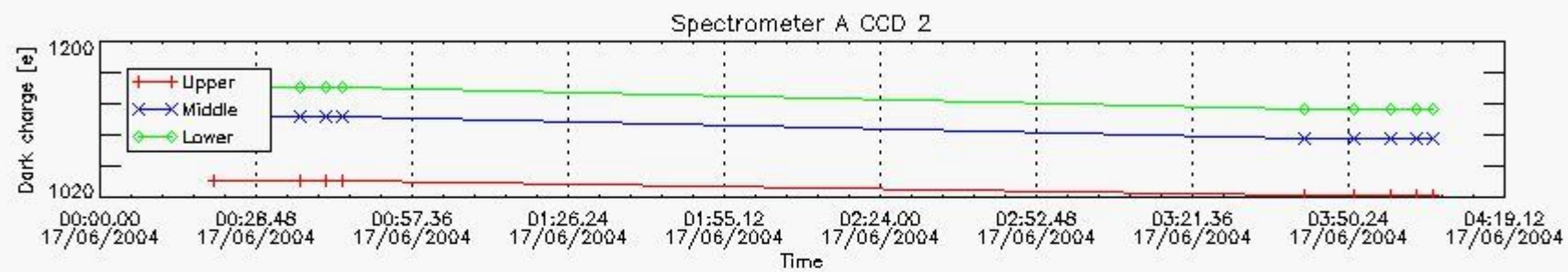
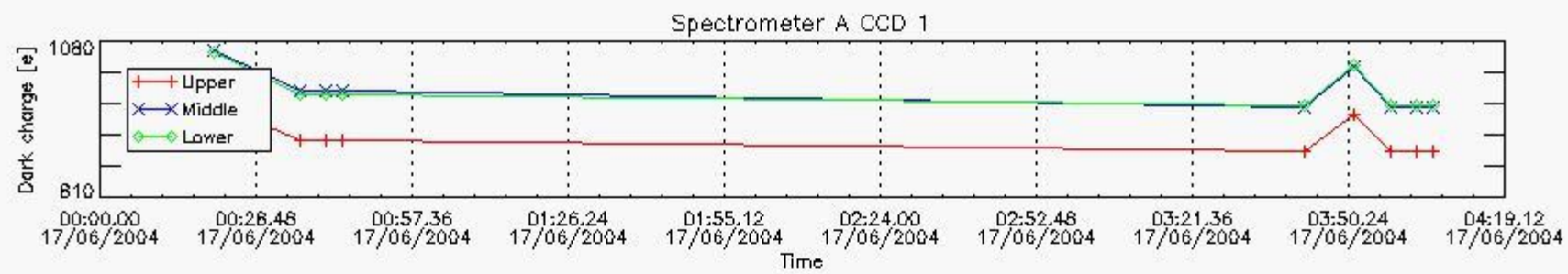
4. Overview of dark signal processing per product

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



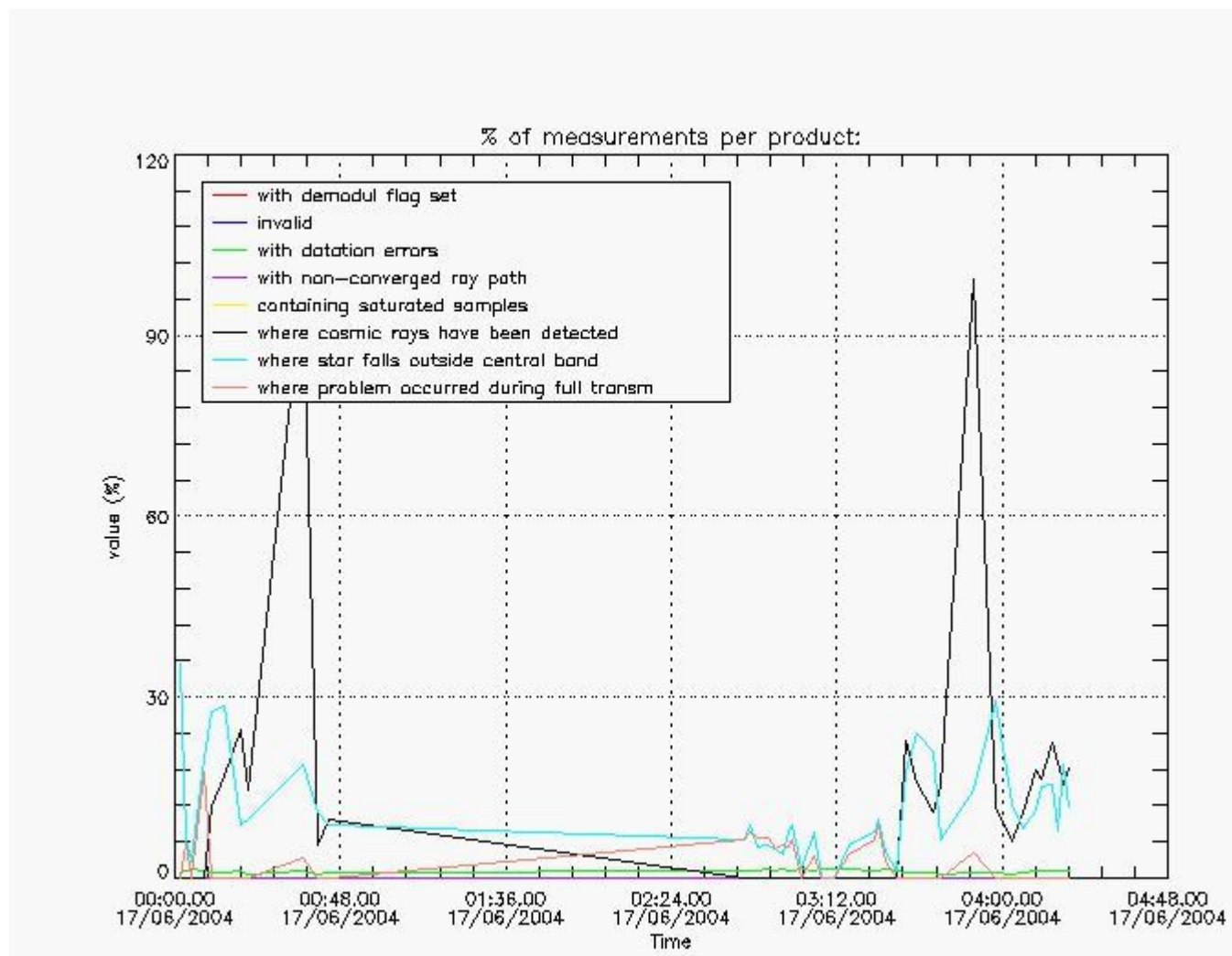
5. Demodulation flag and quality information monitoring

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:

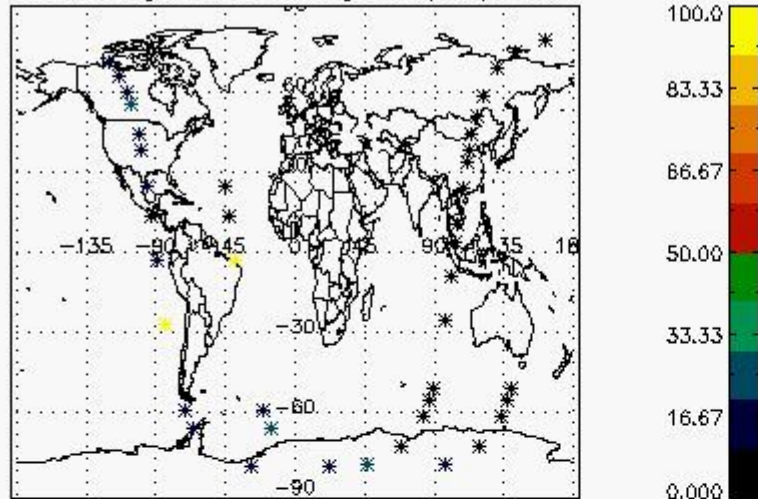
At least one measurement with demodulation flag set:	7.14286 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

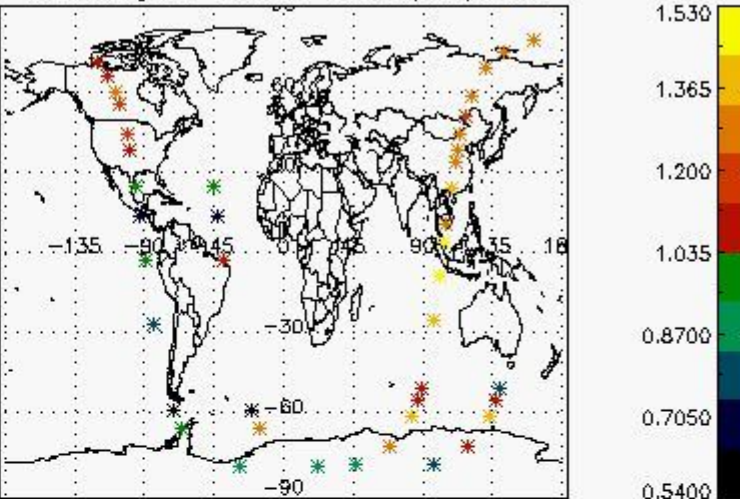


5.3 Plot quality information per product (world map)

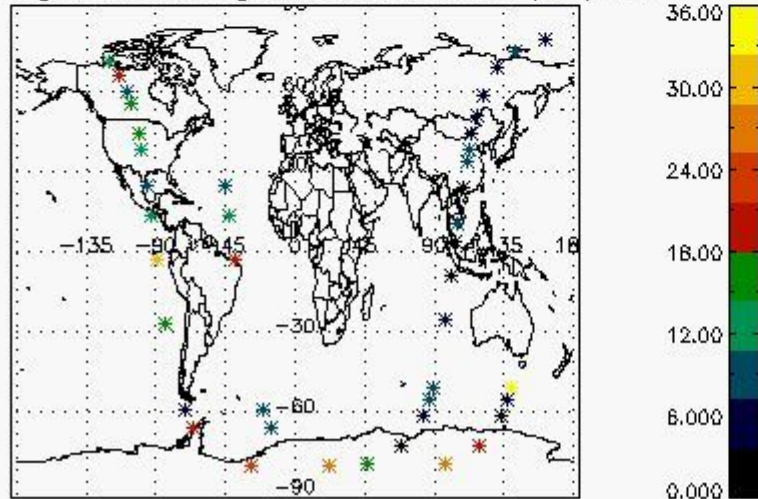
Percentage of cosmic ray hits per profile



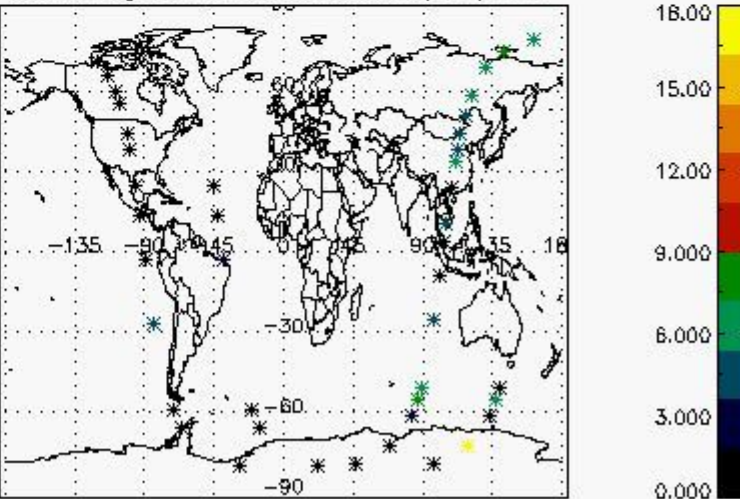
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



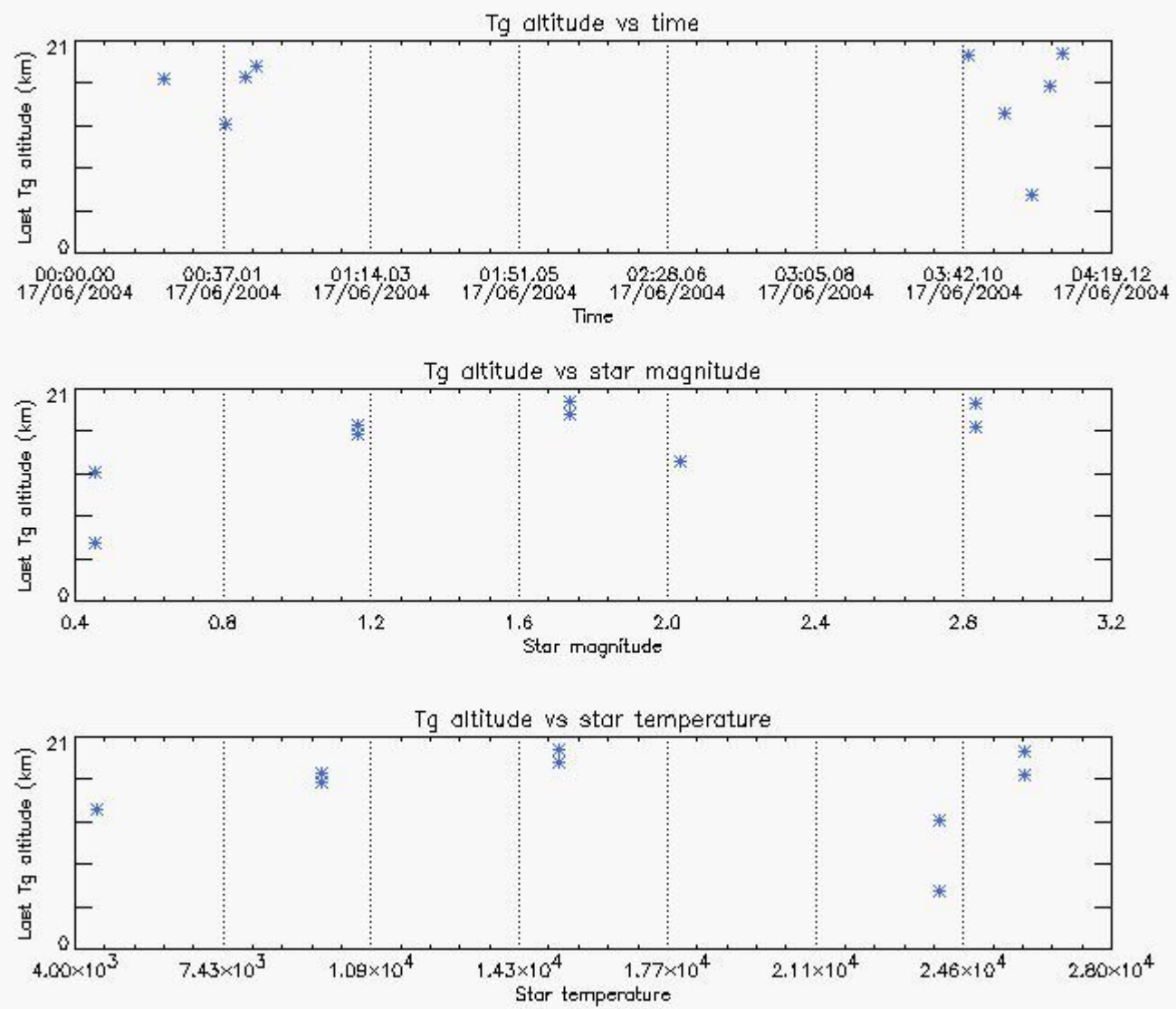
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.687	20.341	12.963
St. deviation:	4.3876	5.3967	5.5097
Maximum:	19.760	29.144	24.163
Minimum:	5.8094	3.8606	6.7437
Number of data:	9.0000	23.000	10.000

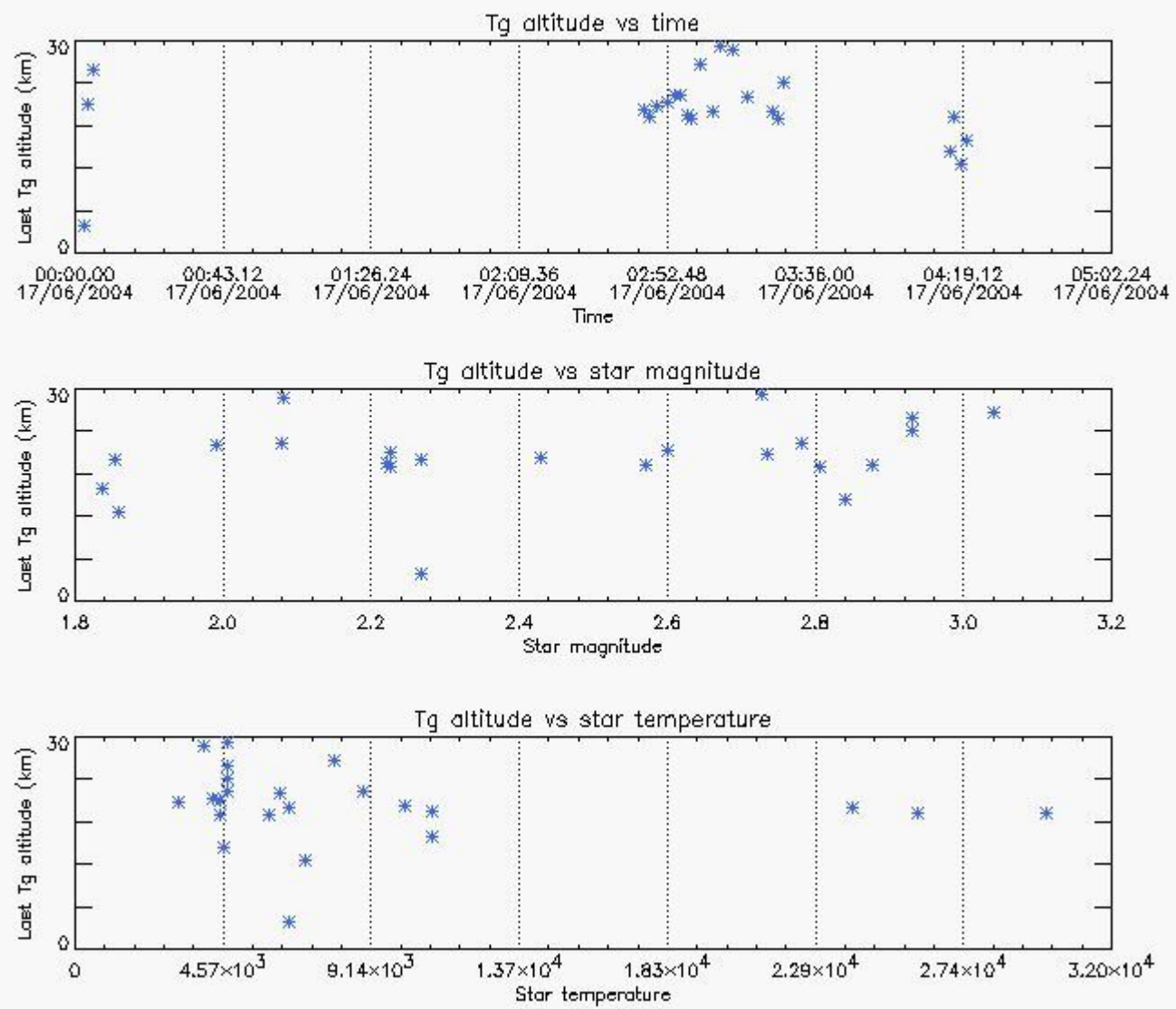
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



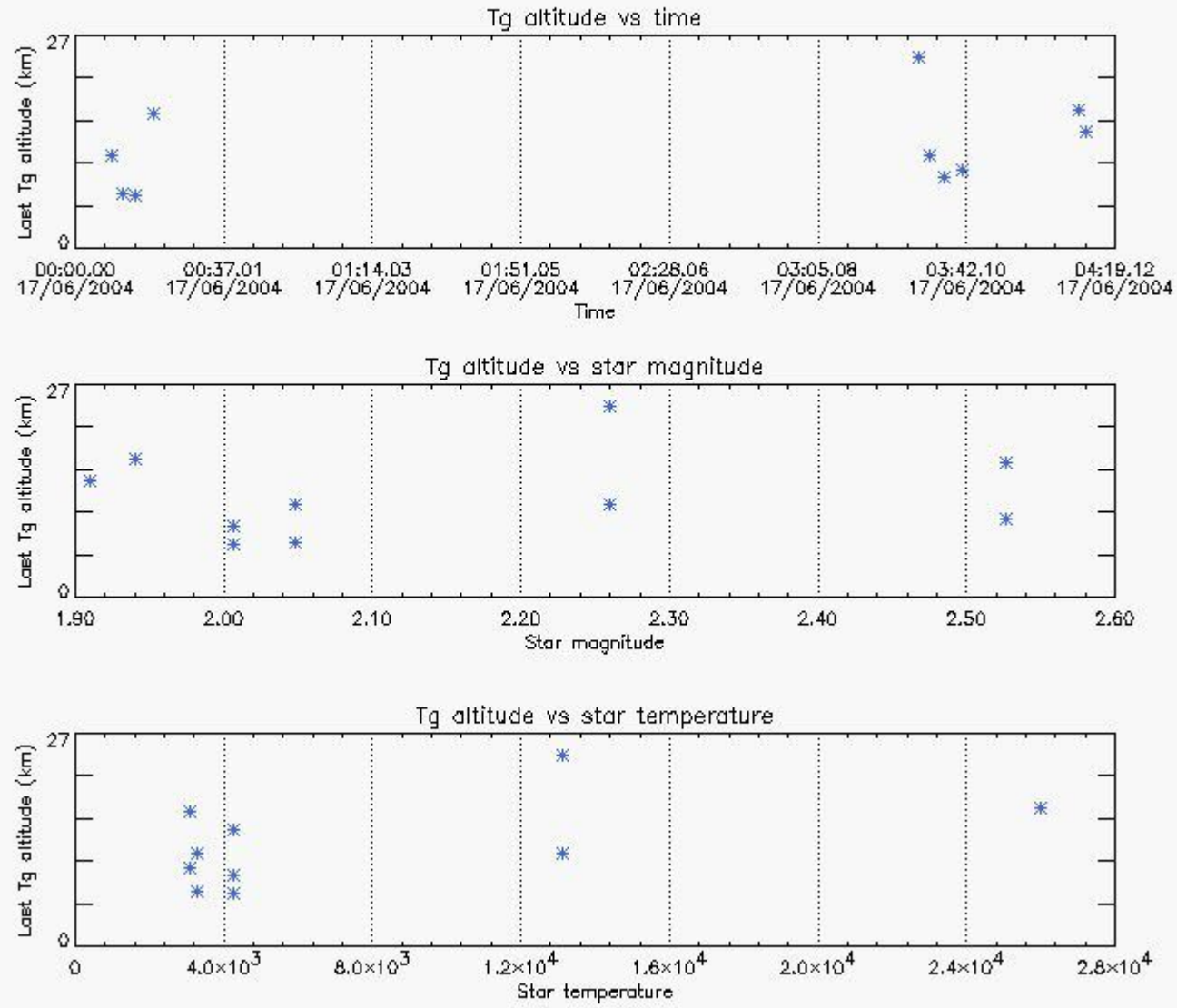
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

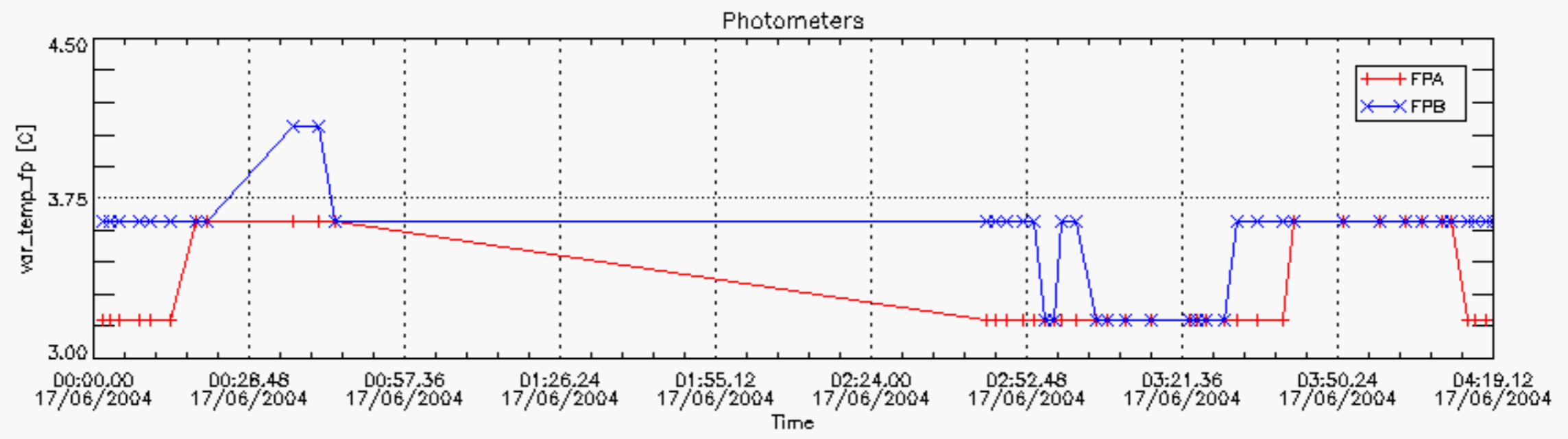
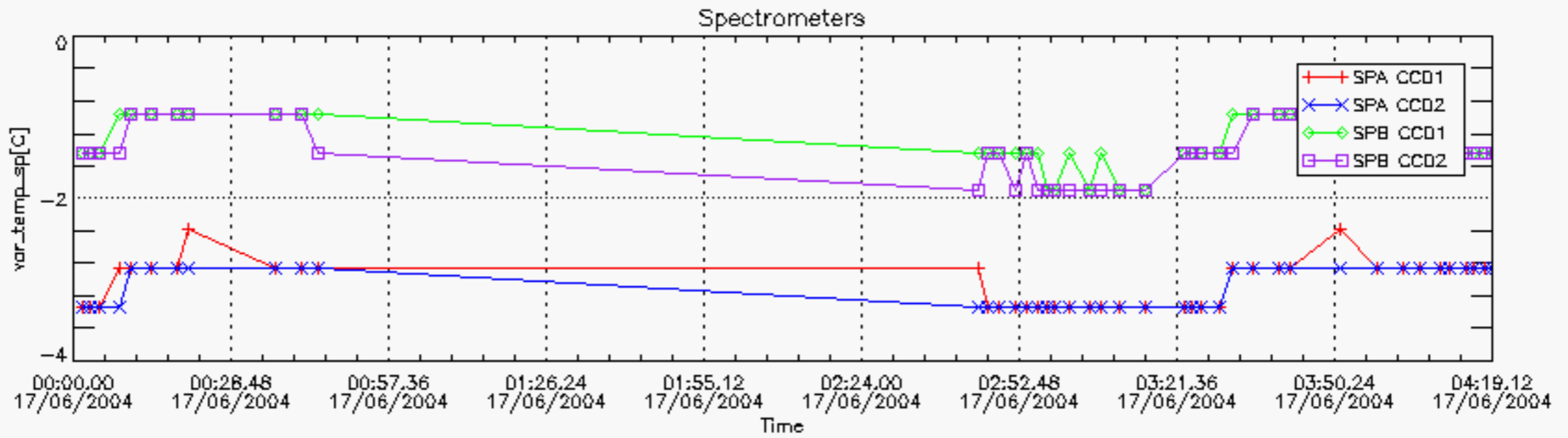
Tangent altitude at which the star is lost

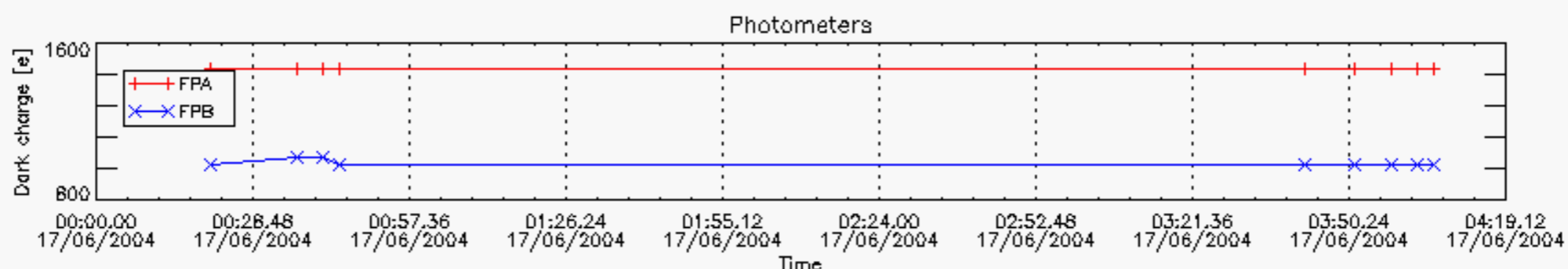
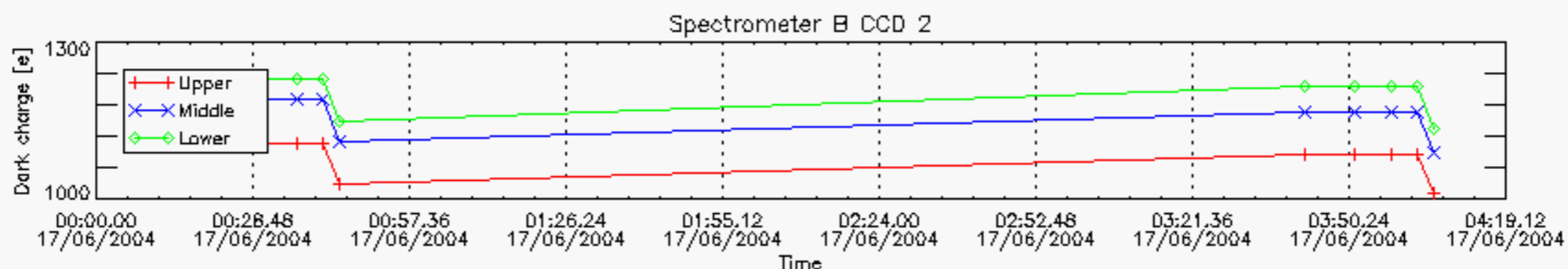
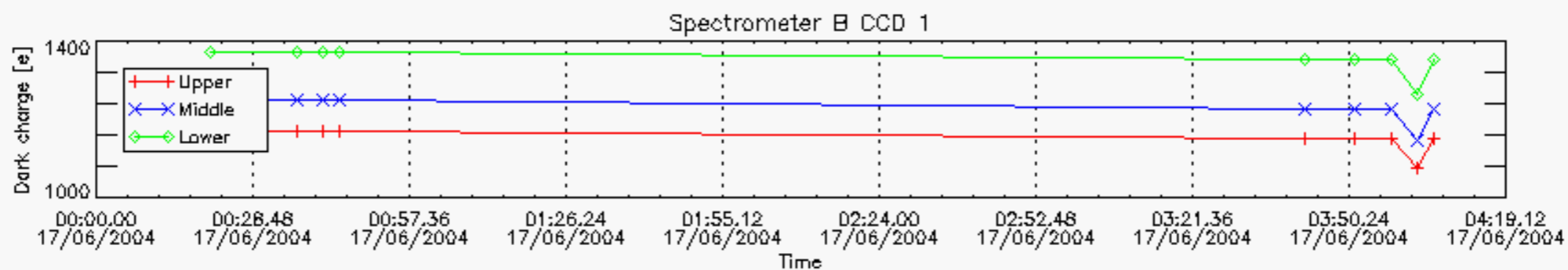
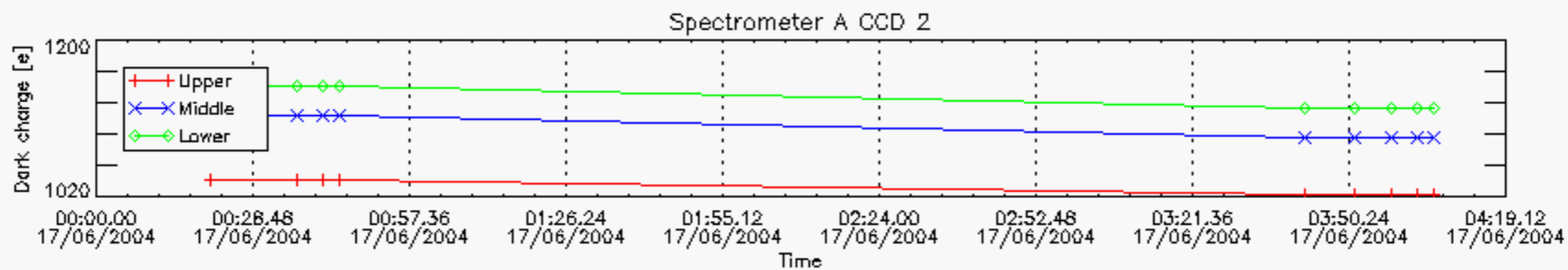
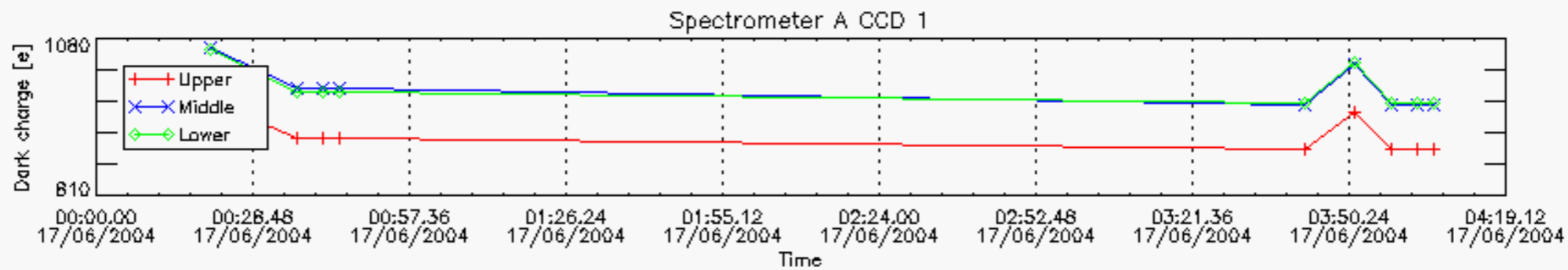


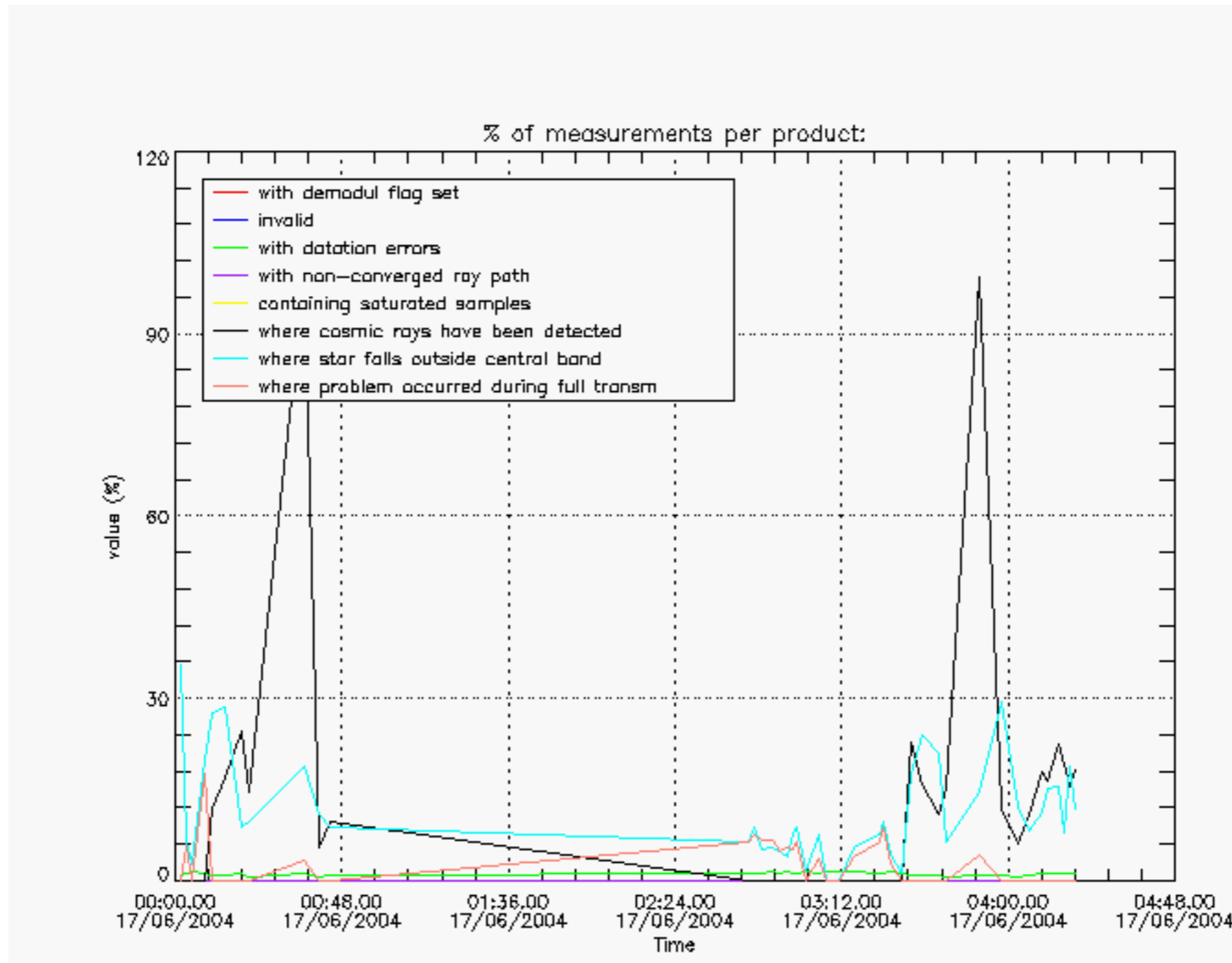
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

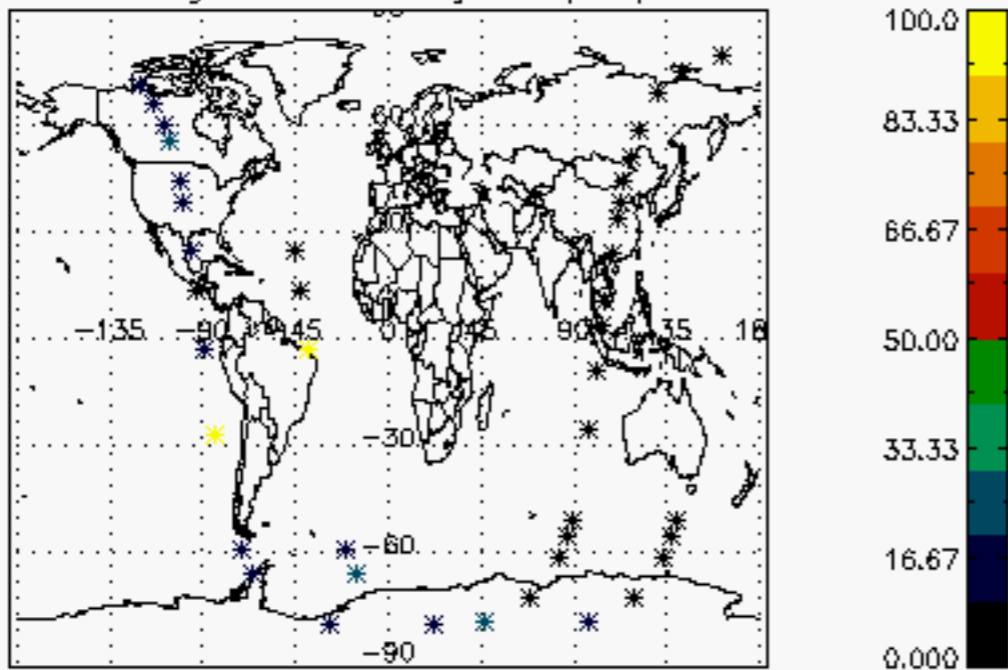
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.5	1449.0	1461.2	1446.6
St. deviation:	4.9374	6.4631	7.0268	8.2076
Maximum:	1505.0	1499.0	1521.0	1491.0
Minimum:	1447.0	1425.0	1448.0	1424.0
Number of data:	14850.	14850.	25050.	25050.



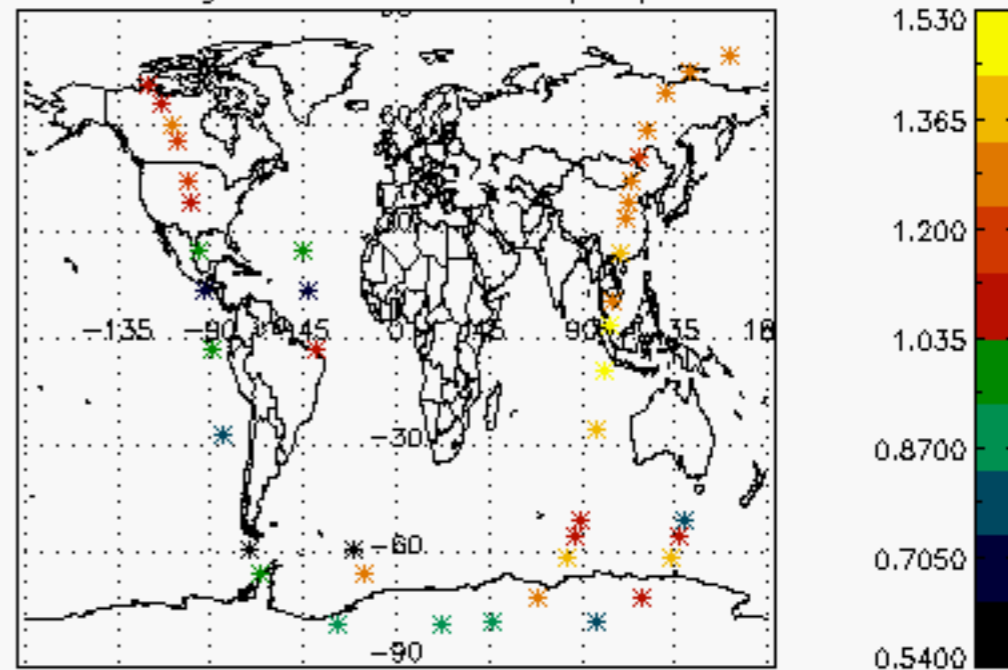




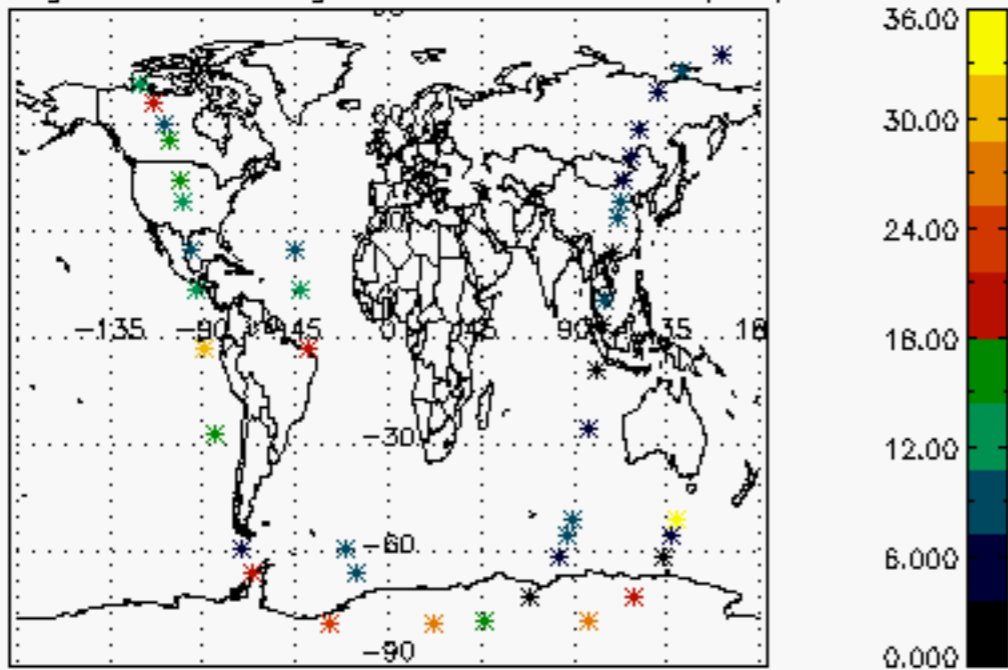
Percentage of cosmic ray hits per profile



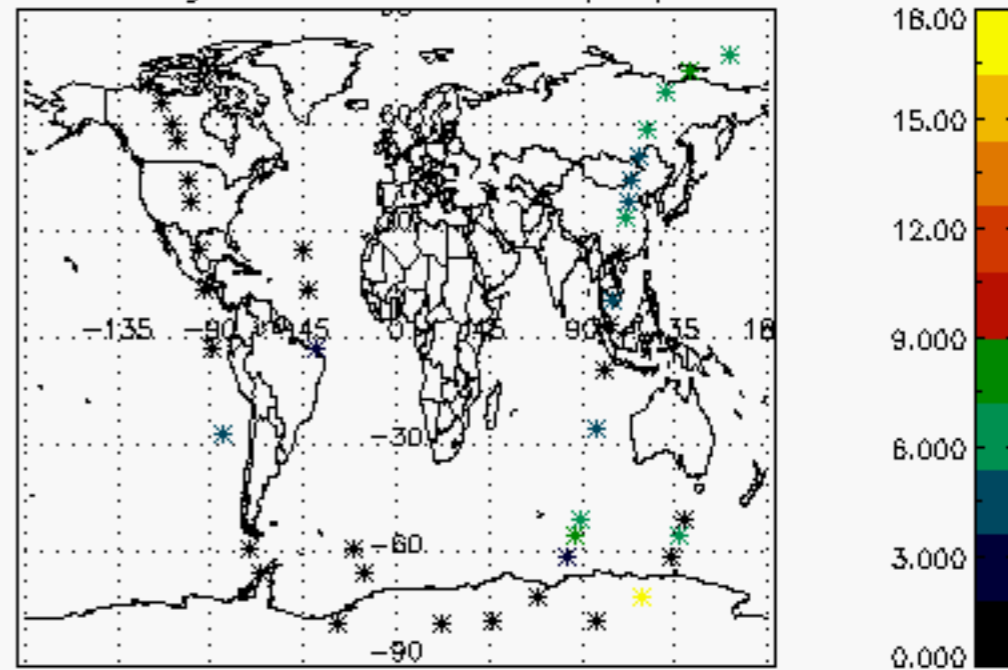
Percentage of datation errors per profile



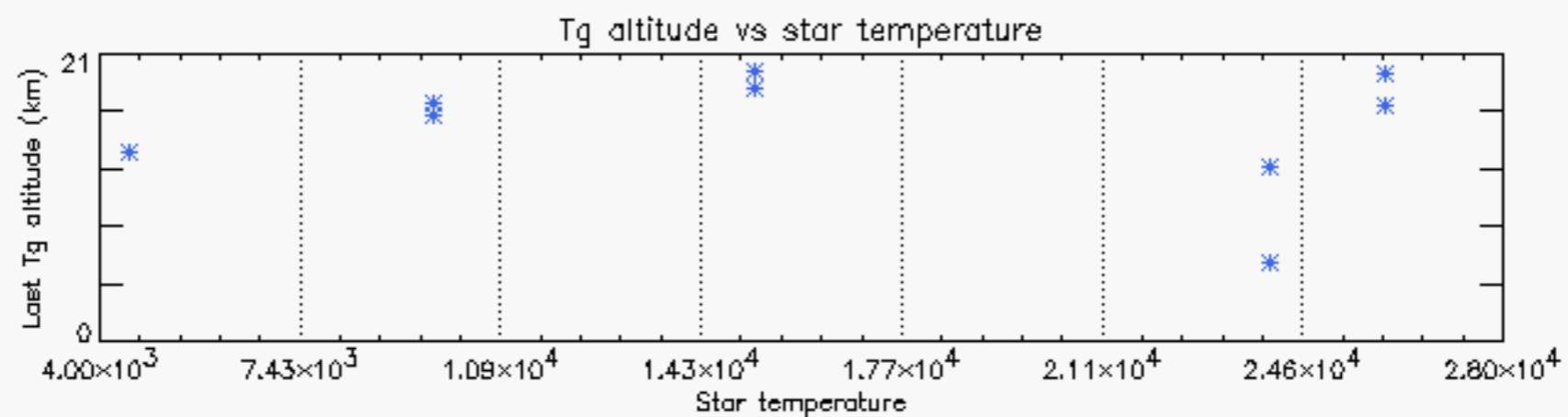
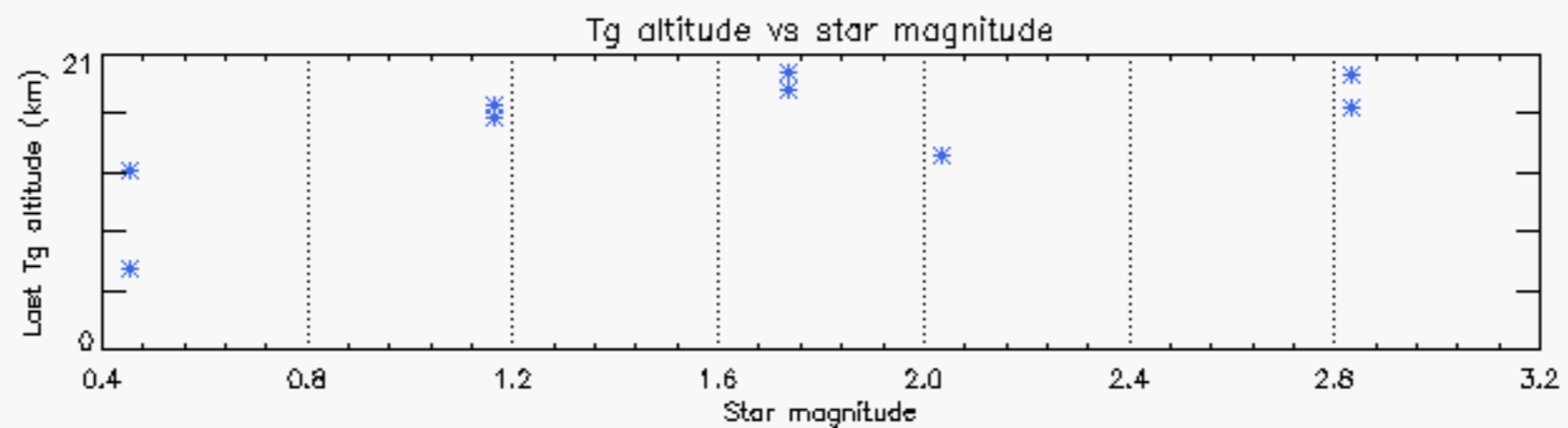
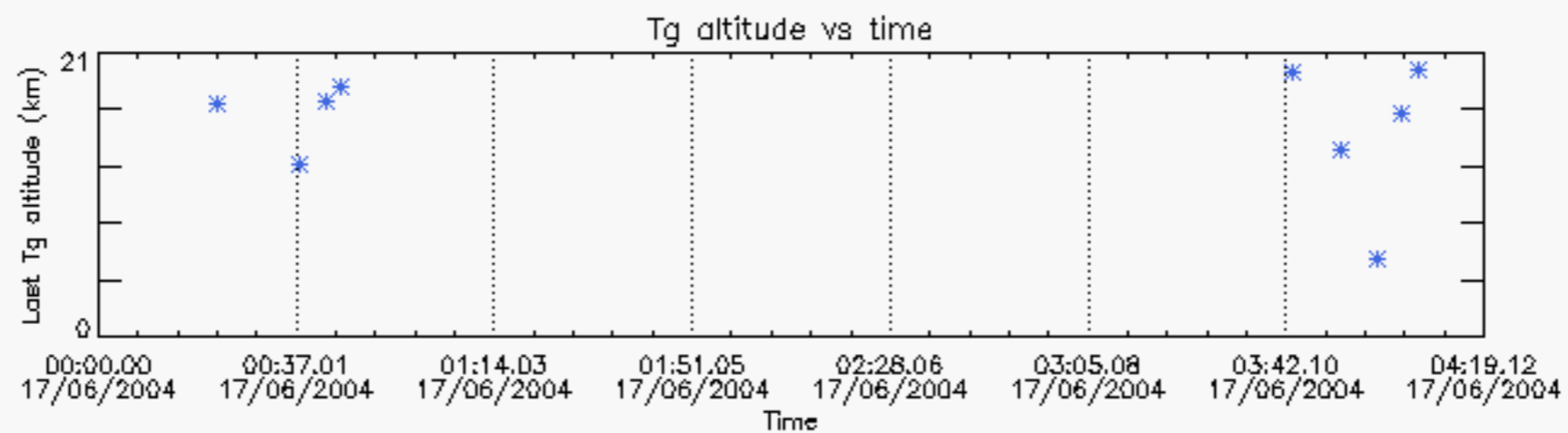
Percentage of star falling outside central band per profile



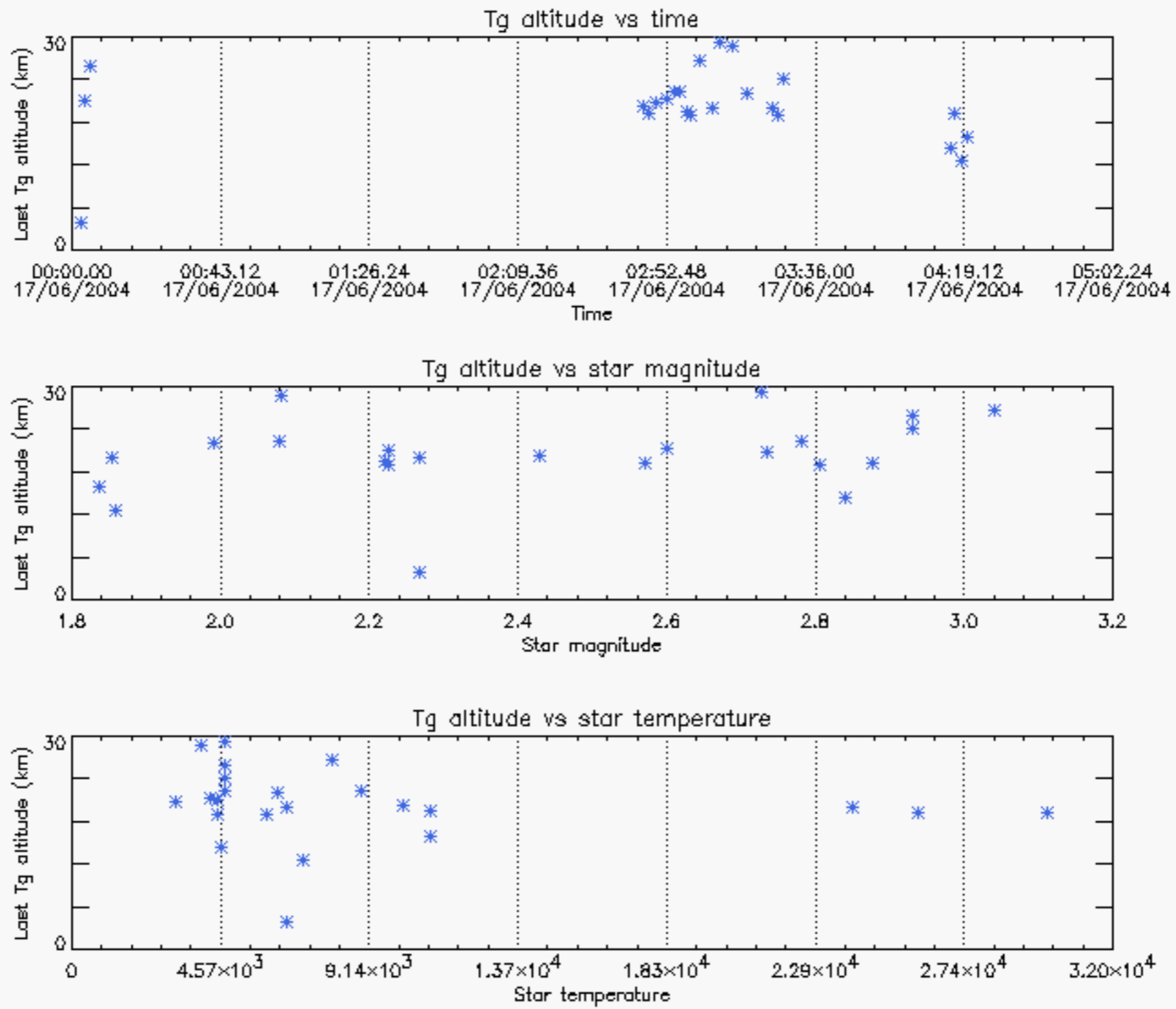
Percentage of saturation errors per profile



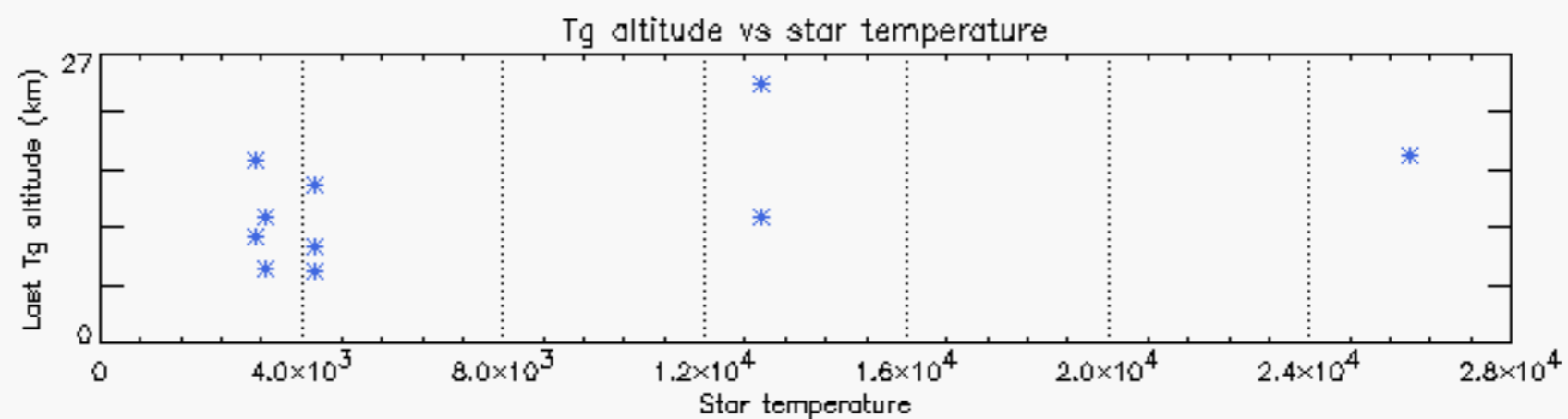
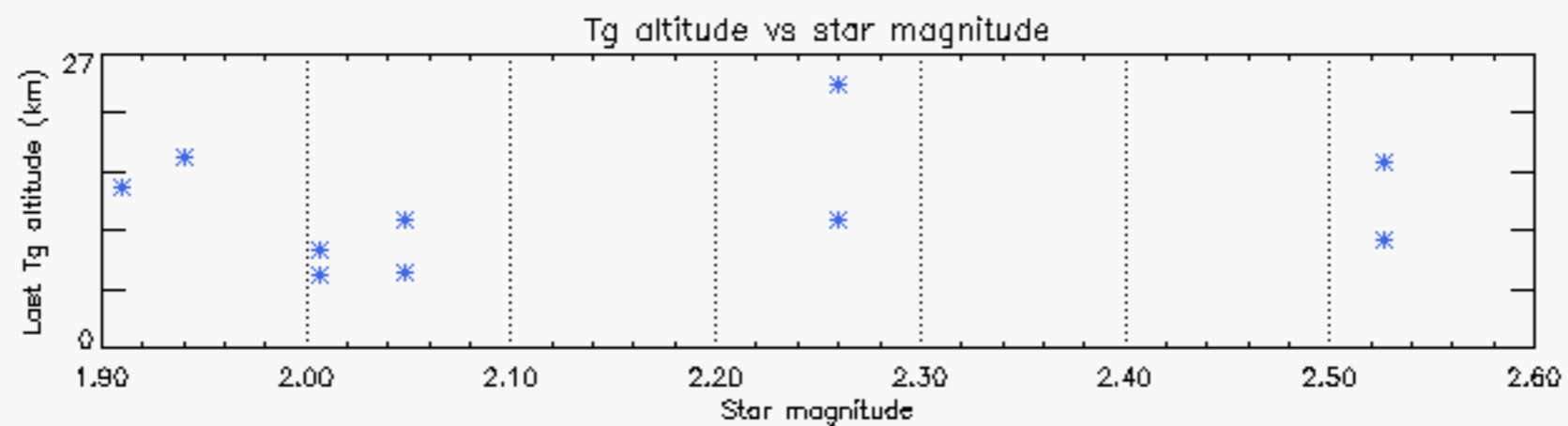
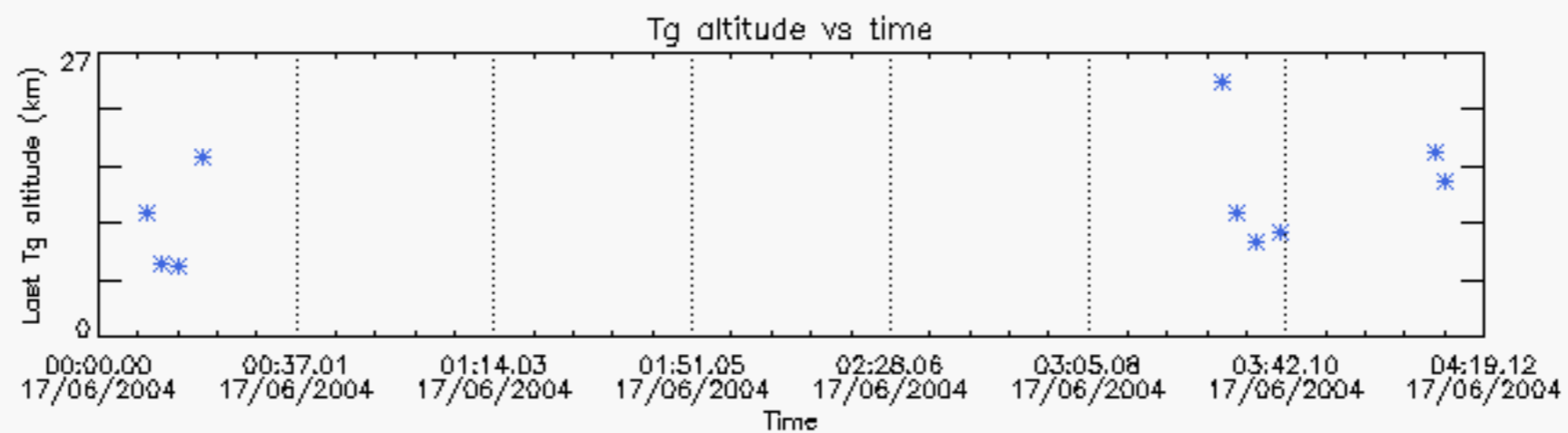
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040601_060933_000061532027_00206_11783_0854.N1

1;-4410.1; 01-JUN-2004 06:09:33; Bright; 47.0; 86; 35Eta Oph ; 2.43; 10200;occ; 94; 71;11783
 2;-4334.4; 01-JUN-2004 06:10:49; Bright; 42.5; 98; 13Zet Oph ; 2.57; 30000;occ; 85; 0;11783
 3;-4203.2; 01-JUN-2004 06:13:00; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;11783
 4;-4022.5; 01-JUN-2004 06:16:01; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;11783
 5;-3779.7; 01-JUN-2004 06:20:04; Bright; 38.0; 3; 16Alp Boo ;-0.05; 4250;occ; 76; 0;11783
 6;-3664.8; 01-JUN-2004 06:21:59; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;11783
 7;-3473.2; 01-JUN-2004 06:25:10; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;11783
 8;-3268.2; 01-JUN-2004 06:28:35; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;11783
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26;	493.7;	01-JUN-2004	10:52:29;	Dark	;	45.5;	45;	Alp Pav	;	1.94;	26000;occ;	91;	0;11786
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16;-1642.6; 01-JUN-2004 13:38:05; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;11787
17;-1478.6; 01-JUN-2004 13:40:49; Dark ; 56.5; 58; 21Alp And ; 2.07; 11000;occ; 113; 0;11787
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22;-470.5; 01-JUN-2004 13:57:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11787
23;-237.0; 01-JUN-2004 14:01:30; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;11787
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25; 86.4; 01-JUN-2004 14:06:53; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;11788
26; 199.9; 01-JUN-2004 14:08:47; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;11788
27; 494.8; 01-JUN-2004 14:13:42; Dark ; 46.5; 45; Alp Pav ; 1.94; 26000;occ; 93; 0;11788
28; 705.6; 01-JUN-2004 14:17:13; Dark ; 43.5; 43; Alp TrA ; 1.91; 4250;occ; 87; 0;11788
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31; 1039.8; 01-JUN-2004 14:22:47; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;11788
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26;-552.6; 09-JUN-2004 18:06:19; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;11904
27;-446.2; 09-JUN-2004 18:08:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11904
28;-82.6; 09-JUN-2004 18:14:09; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;11904
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```

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27; 181.5; 09-JUN-2004 01:32:33; Dark ; 64.0; 63; Bet Gru ; 2.15; 2800;occ; 128; 0;11895
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30; 848.5; 09-JUN-2004 03:24:16; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11896
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3;	-4950.1;	09-JUN-2004	18:33:37;	Dark	;	47.5;	40;	The Sco	;	1.86;	7100;occ;	95;	0;	11905
4;	-4844.8;	09-JUN-2004	18:35:22;	Dark	;	44.5;	25;	35Lam Sco	;	1.62;	28000;occ;	89;	0;	11905
5;	-4747.2;	09-JUN-2004	18:37:00;	Dark	;	60.5;	57;	34Sig Sgr	;	2.07;	26000;occ;	121;	0;	11905
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7;	-4433.8;	09-JUN-2004	18:42:13;	Bright;		43.5;	86;	35Eta Oph	;	2.43;	10200;occ;	87;	0;	11905
8;	-4327.5;	09-JUN-2004	18:44:00;	Bright;		39.5;	98;	13Zet Oph	;	2.57;	30000;occ;	79;	0;	11905
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11;	-3848.1;	09-JUN-2004	18:51:59;	Bright;		49.0;	59;	55Alp Oph	;	2.08;	8900;occ;	98;	0;	11905
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13;	-3647.8;	09-JUN-2004	18:55:19;	Bright;		39.5;	83;		;	2.38;	11000;occ;	79;	0;	11905
14;	-3559.3;	09-JUN-2004	18:56:48;	Bright;		42.5;	133;	40Zet Her	;	2.81;	6000;occ;	85;	0;	11905
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16;	-3236.0;	09-JUN-2004	19:02:11;	Bright;		39.0;	39;	85Eta UMa	;	1.85;	24000;occ;	78;	0;	11905
17;	-3124.2;	09-JUN-2004	19:04:03;	Bright;		40.0;	55;	79Zet UMa	;	2.06;	10200;occ;	80;	0;	11905
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22;	-2018.7;	09-JUN-2004	19:22:28;	Dark	;	255.0;	92;	53Eps Cyg	;	2.50;	4500;occ;	510;	0;	11905
23;	-1632.0;	09-JUN-2004	19:28:55;	Dark	;	62.0;	53;	43Bet And	;	2.05;	3300;occ;	124;	0;	11905
24;	-1435.1;	09-JUN-2004	19:32:12;	Dark	;	46.0;	50;	13Alp Ari	;	2.01;	4250;occ;	92;	0;	11905
25;	-1317.6;	09-JUN-2004	19:34:10;	Dark	;	133.0;	93;	53Bet Peg	;	2.52;	3100;occ;	266;	0;	11905
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13;	-3646.9;	09-JUN-2004	20:35:56;	Bright;		37.0;	83;		;	2.38;	11000;occ;	74;	0;	11906
14;	-3559.4;	09-JUN-2004	20:37:24;	Bright;		41.0;	133;	40Zet Her	;	2.81;	6000;occ;	82;	0;	11906
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17;	-3124.3;	09-JUN-2004	20:44:39;	Bright;		40.0;	55;	79Zet UMa	;	2.06;	10200;occ;	80;	0;	11906
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23;	-1632.2;	09-JUN-2004	21:09:31;	Dark	;	54.5;	53;	43Bet And	;	2.05;	3300;occ;	109;	0;	11906
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25;	-1317.1;	09-JUN-2004	21:14:46;	Dark	;	132.0;	93;	53Bet Peg	;	2.52;	3100;occ;	264;	0;	11906
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27;	-550.5;	09-JUN-2004	21:27:33;	Dark	;	53.0;	52;	16Bet Cet	;	2.04;	4500;occ;	106;	0;	11906
28;	-445.7;	09-JUN-2004	21:29:17;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	11906
29;	-82.3;	09-JUN-2004	21:35:21;	Dark	;	47.5;	9;	Alp Eri	;	0.45;	24000;occ;	95;	0;	11906
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/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040610_062649_000061572027_00335_11912_0940.N1

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/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040610_081055_000059472027_00336_11913_0941.N1

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/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040610_094943_000059522027_00337_11914_0942.N1

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16;-1310.5; 10-JUN-2004 10:39:40; Dark ; 135.5; 93; 53Bet Peg ; 2.52; 3100;occ; 271; 0;11914
17;-1096.1; 10-JUN-2004 10:43:14; Dark ; 64.0; 140; 88Gam Peg ; 2.83; 26000;occ; 128; 0;11914
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19;-443.5; 10-JUN-2004 10:54:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11914
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24; 732.8; 10-JUN-2004 11:13:43; Dark ; 50.5; 43; Alp TrA ; 1.91; 4250;occ; 101; 0;11915
25; 851.1; 10-JUN-2004 11:15:41; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11915
26; 985.7; 10-JUN-2004 11:17:56; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;11915
27; 1089.4; 10-JUN-2004 11:19:40; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;11915
28; 1194.5; 10-JUN-2004 11:21:25; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;11915
29; 1292.8; 10-JUN-2004 11:23:03; Dark ; 76.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 152; 0;11915
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31; 1603.5; 10-JUN-2004 11:28:14; Bright; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;11915
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22; 73.2; 10-JUN-2004 12:43:19; Dark ; 69.5; 18; 24Alp PsA ; 1.17; 9700;occ; 139; 0;11916
23; 323.0; 10-JUN-2004 12:47:29; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;11916
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26; 851.3; 10-JUN-2004 12:56:18; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;11916
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6;-3753.2; 10-JUN-2004 13:20:09; Bright; 43.0; 127; 27Bet Her ; 2.78; 4700;occ; 86; 0;11916
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23; 323.4; 10-JUN-2004 14:28:06; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;11917
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27; 985.3; 10-JUN-2004 14:39:07; Dark ; 44.0; 147; Alp Ara ; 2.88; 26000;occ; 88; 0;11917
28; 1090.1; 10-JUN-2004 14:40:52; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;11917
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13;-2503.6; 11-JUN-2004 06:26:58; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;11926
14;-2101.7; 11-JUN-2004 06:33:40; Bright; 255.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 510; 0;11926
15;-1770.3; 11-JUN-2004 06:39:11; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;11926

```

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16;-1630.3; 11-JUN-2004 06:41:31; Dark ; 55.5; 53; 43Bet And ; 2.05; 3300;occ; 111; 0;11926
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22; 90.4; 11-JUN-2004 07:10:12; Dark ; 66.0; 18; 24Alp PsA ; 1.17; 9700;occ; 132; 0;11927
23; 213.1; 11-JUN-2004 07:12:15; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;11927
24; 334.7; 11-JUN-2004 07:14:16; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;11927
25; 427.4; 11-JUN-2004 07:15:49; Dark ; 59.0; 172; Gam Gru ; 3.00; 13100;occ; 118; 0;11927
26; 587.5; 11-JUN-2004 07:18:29; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11927
27; 735.6; 11-JUN-2004 07:20:57; Dark ; 46.5; 43; Alp TrA ; 1.91; 4250;occ; 93; 0;11927
28; 909.8; 11-JUN-2004 07:23:51; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;11927
29; 990.4; 11-JUN-2004 07:25:12; Dark ; 42.0; 147; Alp Ara ; 2.88; 26000;occ; 84; 0;11927
30; 1094.5; 11-JUN-2004 07:26:56; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;11927
31; 1198.7; 11-JUN-2004 07:28:40; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;11927
32; 1298.5; 11-JUN-2004 07:30:20; Dark ; 72.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 144; 0;11927
33; 1411.4; 11-JUN-2004 07:32:13; Bright; 63.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 126; 0;11927
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23; 214.3; 11-JUN-2004 08:52:52; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;11928
24; 335.8; 11-JUN-2004 08:54:53; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;11928
25; 428.6; 11-JUN-2004 08:56:26; Dark ; 59.0; 172; Gam Gru ; 3.00; 13100;occ; 118; 0;11928
26; 588.1; 11-JUN-2004 08:59:06; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11928
27; 735.7; 11-JUN-2004 09:01:33; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;11928
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32; 1298.7; 11-JUN-2004 09:10:56; Dark ; 58.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 117; 0;11928
33; 1411.9; 11-JUN-2004 09:12:49; Bright; 65.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 130; 0;11928
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```

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21; 215.1; 11-JUN-2004 10:33:28; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;11929
22; 336.2; 11-JUN-2004 10:35:30; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;11929
23; 429.6; 11-JUN-2004 10:37:03; Dark ; 59.0; 172; Gam Gru ; 3.00; 13100;occ; 118; 0;11929
24; 588.5; 11-JUN-2004 10:39:42; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11929
25; 735.3; 11-JUN-2004 10:42:09; Dark ; 51.5; 43; Alp TrA ; 1.91; 4250;occ; 103; 0;11929
26; 910.4; 11-JUN-2004 10:45:04; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;11929
27; 990.7; 11-JUN-2004 10:46:24; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;11929
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29; 1199.0; 11-JUN-2004 10:49:52; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;11929
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31; 1412.3; 11-JUN-2004 10:53:26; Bright; 62.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 125; 0;11929
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32; 1095.4; 11-JUN-2004 15:49:56; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;11932
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21; -66.9; 13-JUN-2004 11:06:08; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;11957
22; 140.6; 13-JUN-2004 11:09:36; Dark ; 67.5; 18; 24Alp PsA ; 1.17; 9700;occ; 135; 0;11958
23; 364.8; 13-JUN-2004 11:13:20; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;11958
24; 469.0; 13-JUN-2004 11:15:04; Dark ; 62.0; 172; Gam Gru ; 3.00; 13100;occ; 124; 0;11958
25; 605.8; 13-JUN-2004 11:17:21; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;11958
26; 740.2; 13-JUN-2004 11:19:35; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;11958
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28; 999.7; 13-JUN-2004 11:23:55; Dark ; 43.0; 147; Alp Ara ; 2.88; 26000;occ; 86; 0;11958
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31; 1310.4; 13-JUN-2004 11:29:06; Dark ; 57.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 115; 0;11958
32; 1419.8; 13-JUN-2004 11:30:55; Bright; 61.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 123; 0;11958
33; 1608.0; 13-JUN-2004 11:34:03; Bright; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;11958
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2;-4322.4; 13-JUN-2004 11:35:49; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;11958
3;-4196.2; 13-JUN-2004 11:37:55; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;11958
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13;-2591.4; 13-JUN-2004 12:04:40; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;11958
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22; -67.0; 13-JUN-2004 12:46:44; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;11958
23; 141.9; 13-JUN-2004 12:50:13; Dark ; 69.0; 18; 24Alp PsA ; 1.17; 9700;occ; 138; 0;11959
24; 365.9; 13-JUN-2004 12:53:57; Dark ; 53.5; 31; Alp Gru ; 1.73; 15200;occ; 107; 0;11959
25; 470.7; 13-JUN-2004 12:55:42; Dark ; 60.5; 172; Gam Gru ; 3.00; 13100;occ; 121; 0;11959
26; 606.5; 13-JUN-2004 12:57:58; Dark ; 46.0; 45; Alp Pav ; 1.94; 26000;occ; 92; 0;11959
27; 739.8; 13-JUN-2004 13:00:11; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;11959
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31; 1192.3; 13-JUN-2004 13:07:43; Dark ; 48.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 96; 0;11959
32; 1310.8; 13-JUN-2004 13:09:42; Dark ; 66.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 133; 0;11959
33; 1420.2; 13-JUN-2004 13:11:31; Bright; 60.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 121; 0;11959
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8;-3572.6; 13-JUN-2004 13:28:54; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;11959
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22; -66.6; 13-JUN-2004 14:27:20; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;11959
23; 143.5; 13-JUN-2004 14:30:50; Dark ; 71.5; 18; 24Alp PsA ; 1.17; 9700;occ; 143; 0;11960
24; 366.8; 13-JUN-2004 14:34:34; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;11960
25; 471.5; 13-JUN-2004 14:36:18; Dark ; 60.5; 172; Gam Gru ; 3.00; 13100;occ; 121; 0;11960
26; 607.1; 13-JUN-2004 14:38:34; Dark ; 46.5; 45; Alp Pav ; 1.94; 26000;occ; 93; 0;11960
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31; 1208.2; 13-JUN-2004 14:48:35; Dark ; 47.0; 25; 35Lam Sco ; 1.62; 28000;occ; 94; 0;11960
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21; -537.5; 13-JUN-2004 16:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11960
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25; 368.2; 13-JUN-2004 16:15:11; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;11961
26; 473.3; 13-JUN-2004 16:16:56; Dark ; 59.0; 172; Gam Gru ; 3.00; 13100;occ; 118; 0;11961
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3;-4614.5; 13-JUN-2004 16:32:45; Bright; 61.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 122; 0;11961
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```

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22;-1304.8; 10-JUN-2004 22:23:57; Dark ; 151.5; 93; 53Bet Peg ; 2.52; 3100;occ; 303; 0;11921
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24; -441.5; 10-JUN-2004 22:38:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11921
25; -78.9; 10-JUN-2004 22:44:23; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;11921
26; 328.4; 10-JUN-2004 22:51:10; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;11922
27; 419.4; 10-JUN-2004 22:52:41; Dark ; 59.0; 172; Gam Gru ; 3.00; 13100;occ; 118; 0;11922
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33; 1193.6; 10-JUN-2004 23:05:36; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;11922
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```



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24; 462.8; 13-JUN-2004 02:51:58; Dark ; 60.0; 172; Gam Gru ; 3.00; 13100;occ; 120; 0;11953
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```

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