

GOMOS Daily Report 28-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: BRIG H T products](#)

[6.3 Plot of star tangent altitude lost: TWI L I G H T 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	29JUN2004 03:42:50
Data source version	GOMOS/4.02
Start time of products	28-JUN-2004 (28JUN2004 00:00:00)
Stop time of products	29-JUN-2004 (29JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

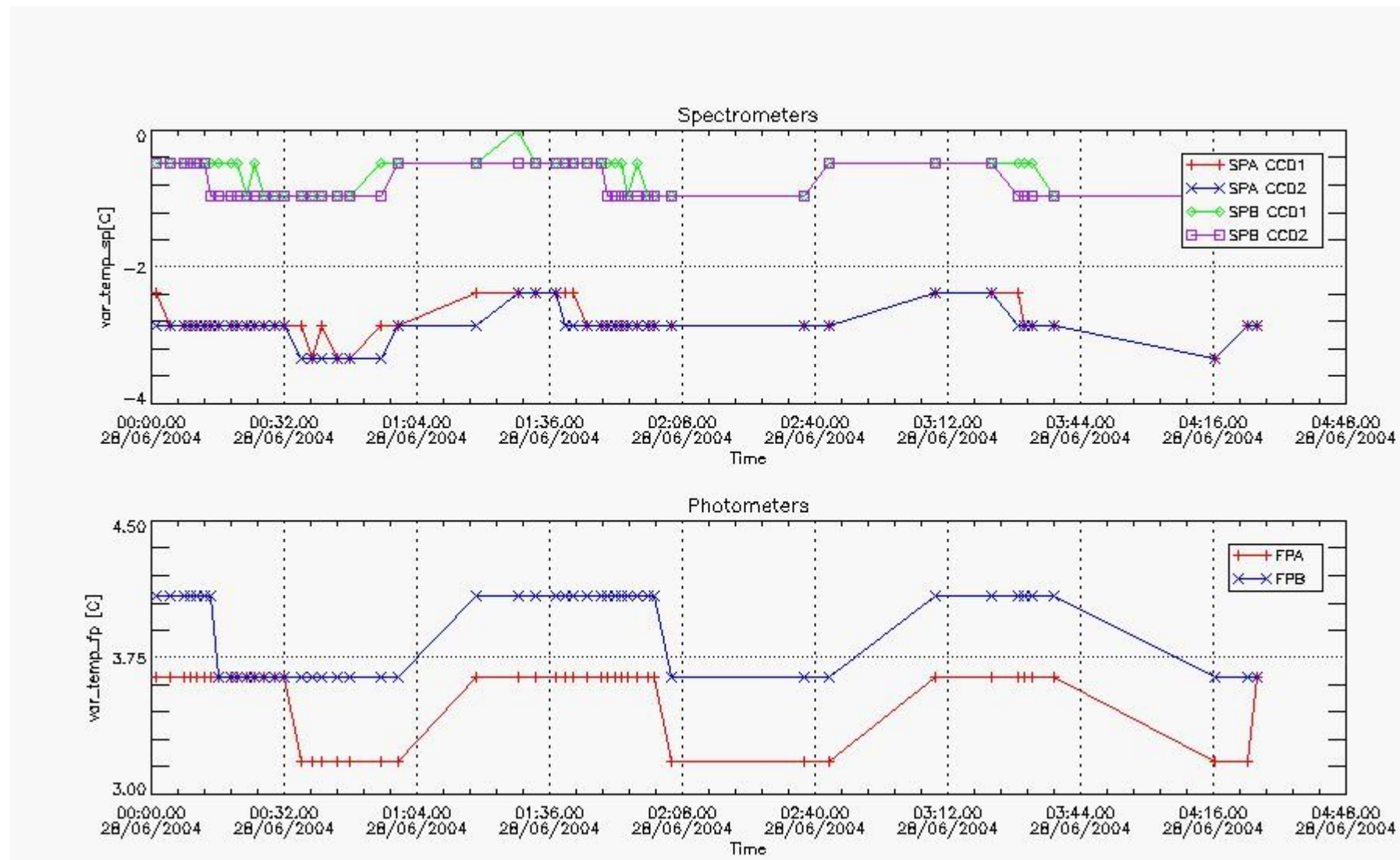
2. Summary of products arrived in PCF

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_1PNPDE20040628_000113_000000512028_00088_12166_0004.N1	28-JUN-2004 00:01:13	Dark	50.500	31	Alp Gru	1.7340	15200.	101	12166	No
GOM_TRA_1PNPDE20040628_000431_000000522028_00088_12166_0005.N1	28-JUN-2004 00:04:31	Twilight	51.500	43	Alp TrA	1.9100	4250.0	103	12166	No
GOM_TRA_1PNPDE20040628_000753_000000432028_00088_12166_0006.N1	28-JUN-2004 00:07:53	Bright	42.500	141	Bet Ara	2.8400	4600.0	85	12166	No
GOM_TRA_1PNPDE20040628_000918_000000422028_00088_12166_0007.N1	28-JUN-2004 00:09:18	Bright	42.000	147	Alp Ara	2.8770	26000.	84	12166	No
GOM_TRA_1PNPDE20040628_001105_000000462028_00088_12166_0008.N1	28-JUN-2004 00:11:05	Bright	45.500	40	The Sco	1.8590	7100.0	91	12166	No
GOM_TRA_1PNPDE20040628_001245_000000442028_00088_12166_0009.N1	28-JUN-2004 00:12:45	Bright	44.000	25	35Lam Sco	1.6200	28000.	88	12166	No
GOM_TRA_1PNPDE20040628_001410_000000532028_00088_12166_0010.N1	28-JUN-2004 00:14:10	Bright	53.000	116	19Del Sgr	2.7000	4100.0	106	12166	No
GOM_TRA_1PNPDE20040628_001618_000000482028_00088_12166_0011.N1	28-JUN-2004 00:16:18	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	12166	No
GOM_TRA_1PNPDE20040628_001901_000000402028_00088_12166_0012.N1	28-JUN-2004 00:19:01	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	12166	No
GOM_TRA_1PNPDE20040628_002044_000000412028_00088_12166_0013.N1	28-JUN-2004 00:20:44	Bright	41.000	98	13Zet Oph	2.5710	30000.	82	12166	No
GOM_TRA_1PNPDE20040628_002253_000000412028_00088_12166_0014.N1	28-JUN-2004 00:22:53	Bright	40.500	120	1Del Oph	2.7340	3200.0	81	12166	No
GOM_TRA_1PNPDE20040628_002447_000000412028_00088_12166_0015.N1	28-JUN-2004 00:24:47	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	12166	No
GOM_TRA_1PNPDE20040628_002708_000000402028_00088_12166_0016.N1	28-JUN-2004 00:27:08	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	12166	No
GOM_TRA_1PNPDE20040628_002943_000000392028_00088_12166_0017.N1	28-JUN-2004 00:29:43	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	12166	No
GOM_TRA_1PNPDE20040628_003149_000000372028_00088_12166_0018.N1	28-JUN-2004 00:31:49	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	12166	No
GOM_TRA_1PNPDE20040628_003617_000000472028_00088_12166_0019.N1	28-JUN-2004 00:36:17	Bright	47.000	5	3Alp Lyr	0.033000	11000.	94	12166	No
GOM_TRA_1PNPDE20040628_003840_000000402028_00088_12166_0020.N1	28-JUN-2004 00:38:40	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	12166	No
GOM_TRA_1PNPDE20040628_004056_000000402028_00088_12166_0021.N1	28-JUN-2004 00:40:56	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	12166	No
GOM_TRA_1PNPDE20040628_004450_000000352028_00088_12166_0022.N1	28-JUN-2004 00:44:50	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	12166	No
GOM_TRA_1PNPDE20040628_004755_000000452028_00088_12166_0023.N1	28-JUN-2004 00:47:55	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	12166	No
GOM_TRA_1PNPDE20040628_005509_000000692028_00088_12166_0024.N1	28-JUN-2004 00:55:09	Bright	69.000	74	11Bet Cas	2.2680	6600.0	138	12166	No
GOM_TRA_1PNPDE20040628_005928_000000412028_00088_12166_0026.N1	28-JUN-2004 00:59:28	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	12166	No
GOM_TRA_1PNPDE20040628_011814_000000492028_00088_12166_0000.N1	28-JUN-2004 01:18:14	Dark	48.500	165	34Gam Eri	2.9500	3200.0	97	12166	No
GOM_TRA_1PNPDE20040628_012823_000000872028_00088_12166_0001.N1	28-JUN-2004 01:28:23	Dark	86.500	52	16Bet Cet	2.0370	4500.0	173	12166	No
GOM_TRA_1PNPDE20040628_013239_000000422028_00089_12167_0002.N1	28-JUN-2004 01:32:39	Dark	42.000	9	Alp Eri	0.45300	24000.	84	12167	No
GOM_TRA_1PNPDE20040628_013728_000000402028_00089_12167_0003.N1	28-JUN-2004 01:37:28	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12167	No
GOM_TRA_1PNPDE20040628_013951_000000642028_00089_12167_0004.N1	28-JUN-2004 01:39:51	Dark	63.500	63	Bet Gru	2.1500	2800.0	127	12167	No
GOM_TRA_1PNPDE20040628_014149_000000502028_00089_12167_0005.N1	28-JUN-2004 01:41:49	Dark	50.000	31	Alp Gru	1.7340	15200.	100	12167	No
GOM_TRA_1PNPDE20040628_014507_000000442028_00089_12167_0006.N1	28-JUN-2004 01:45:07	Twilight	43.500	43	Alp TrA	1.9100	4250.0	87	12167	No
GOM_TRA_1PNPDE20040628_014829_000000472028_00089_12167_0007.N1	28-JUN-2004 01:48:29	Bright	46.500	141	Bet Ara	2.8400	4600.0	93	12167	No
GOM_TRA_1PNPDE20040628_014955_000000402028_00089_12167_0008.N1	28-JUN-2004 01:49:55	Bright	39.500	147	Alp Ara	2.8770	26000.	79	12167	No
GOM_TRA_1PNPDE20040628_015143_000000442028_00089_12167_0009.N1	28-JUN-2004 01:51:43	Bright	44.000	40	The Sco	1.8590	7100.0	88	12167	No
GOM_TRA_1PNPDE20040628_015323_000000412028_00089_12167_0010.N1	28-JUN-2004 01:53:23	Bright	41.000	25	35Lam Sco	1.6200	28000.	82	12167	No
GOM_TRA_1PNPDE20040628_015445_000000562028_00089_12167_0011.N1	28-JUN-2004 01:54:45	Bright	56.000	116	19Del Sgr	2.7000	4100.0	112	12167	No
GOM_TRA_1PNPDE20040628_015654_000000482028_00089_12167_0012.N1	28-JUN-2004 01:56:54	Bright	48.000	155	41Pi Sgr	2.9000	6600.0	96	12167	No
GOM_TRA_1PNPDE20040628_015937_000000402028_00089_12167_0013.N1	28-JUN-2004 01:59:37	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	12167	No
GOM_TRA_1PNPDE20040628_020122_000000402028_00089_12167_0014.N1	28-JUN-2004 02:01:22	Bright	39.500	98	13Zet Oph	2.5710	30000.	79	12167	No
GOM_TRA_1PNPDE20040628_020523_000000412028_00089_12167_0016.N1	28-JUN-2004 02:05:23	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	12167	No
GOM_TRA_1PNPDE20040628_023724_000000482028_00089_12167_0001.N1	28-JUN-2004 02:37:24	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	12167	No
GOM_TRA_1PNPDE20040628_024330_000000472028_00089_12167_0004.N1	28-JUN-2004 02:43:30	Twilight	47.000	73	57Gam1And	2.2600	13100.	94	12167	No
GOM_TRA_1PNPDE20040628_030901_000000732028_00089_12167_0010.N1	28-JUN-2004 03:09:01	Dark	73.000	52	16Bet Cet	2.0370	4500.0	146	12167	No
GOM_TRA_1PNPDE20040628_032226_000000502028_00090_12168_0014.N1	28-JUN-2004 03:22:26	Dark	49.500	31	Alp Gru	1.7340	15200.	99	12168	No
GOM_TRA_1PNPDE20040628_032903_000000442028_00090_12168_0016.N1	28-JUN-2004 03:29:03	Bright	43.500	141	Bet Ara	2.8400	4600.0	87	12168	No
GOM_TRA_1PNPDE20040628_033030_000000422028_00090_12168_0017.N1	28-JUN-2004 03:30:30	Bright	42.000	147	Alp Ara	2.8770	26000.	84	12168	No
GOM_TRA_1PNPDE20040628_033219_000000492028_00090_12168_0018.N1	28-JUN-2004 03:32:19	Bright	48.500	40	The Sco	1.8590	7100.0	97	12168	No
GOM_TRA_1PNPDE20040628_033730_000000472028_00090_12168_0021.N1	28-JUN-2004 03:37:30	Bright	47.000	155	41Pi Sgr	2.9000	6600.0	94	12168	No
GOM_TRA_1PNPDE20040628_041620_000000502028_00090_12168_0000.N1	28-JUN-2004 04:16:20	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	12168	No
GOM_TRA_1PNPDE20040628_042406_000000482028_00090_12168_0004.N1	28-JUN-2004 04:24:06	Twilight	47.500	73	57Gam1And	2.2600	13100.	95	12168	No
GOM_TRA_1PNPDE20040628_042636_000000812028_00090_12168_0005.N1	28-JUN-2004 04:26:36	Twilight	81.000	53	43Bet And	2.0480	3300.0	162	12168	No

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



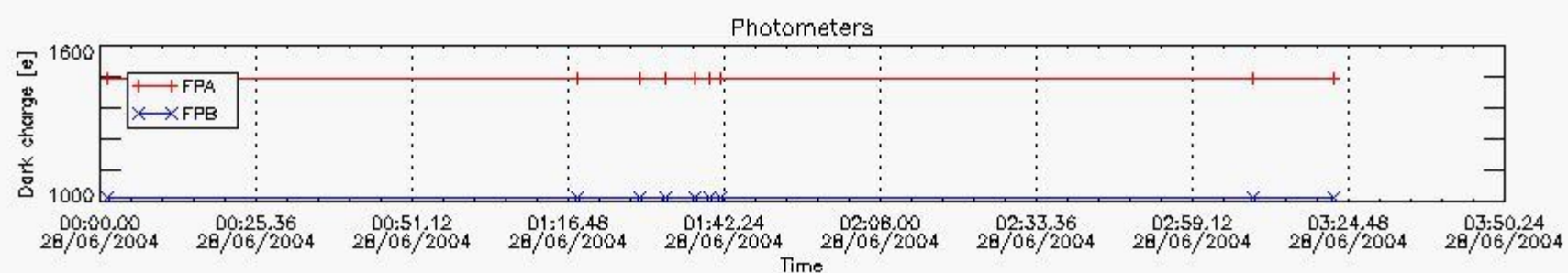
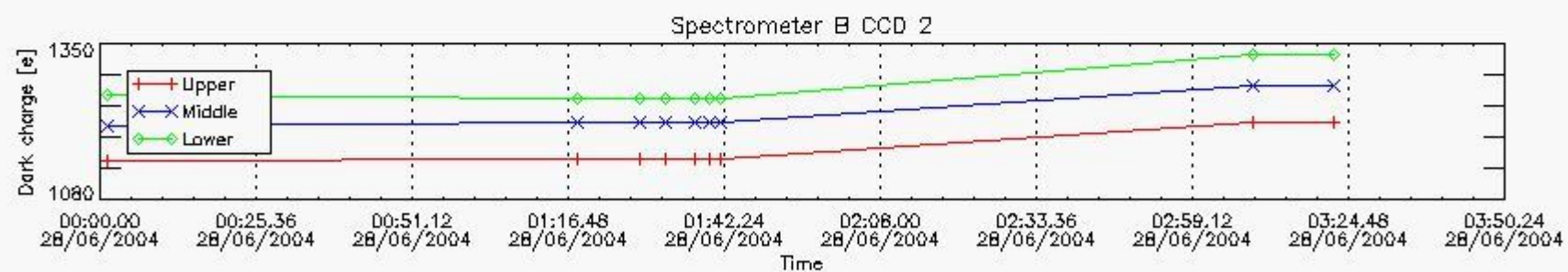
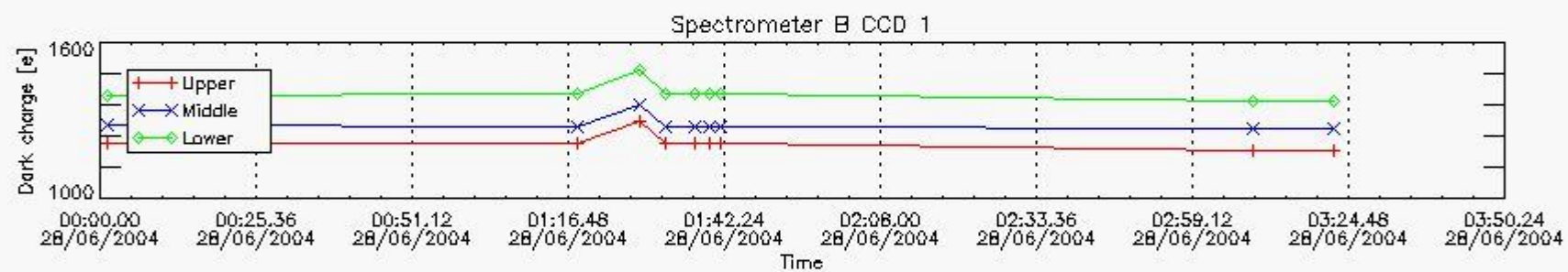
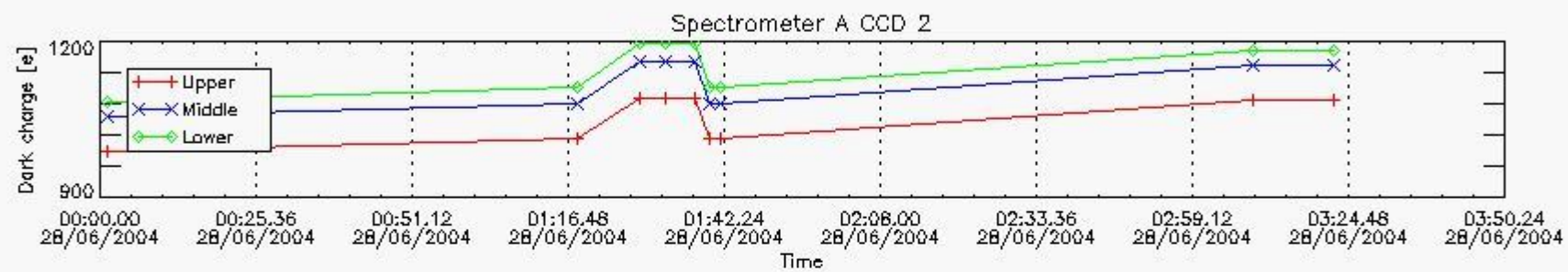
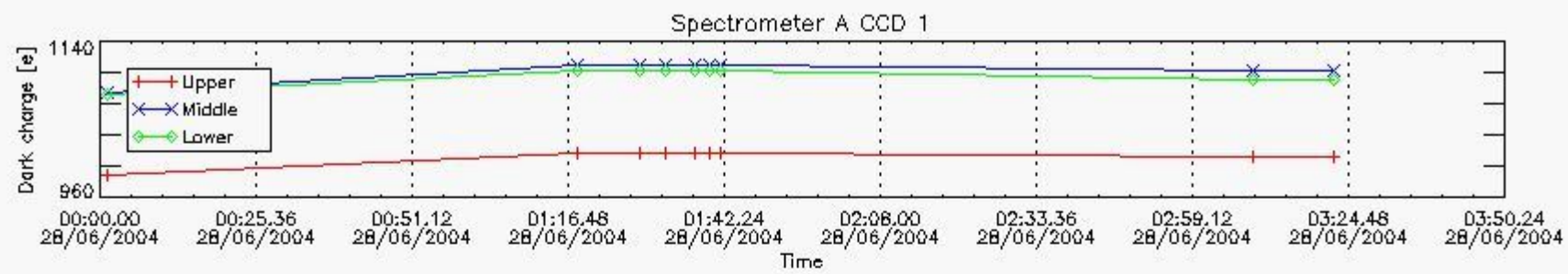
4. Overview of dark signal processing per product

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



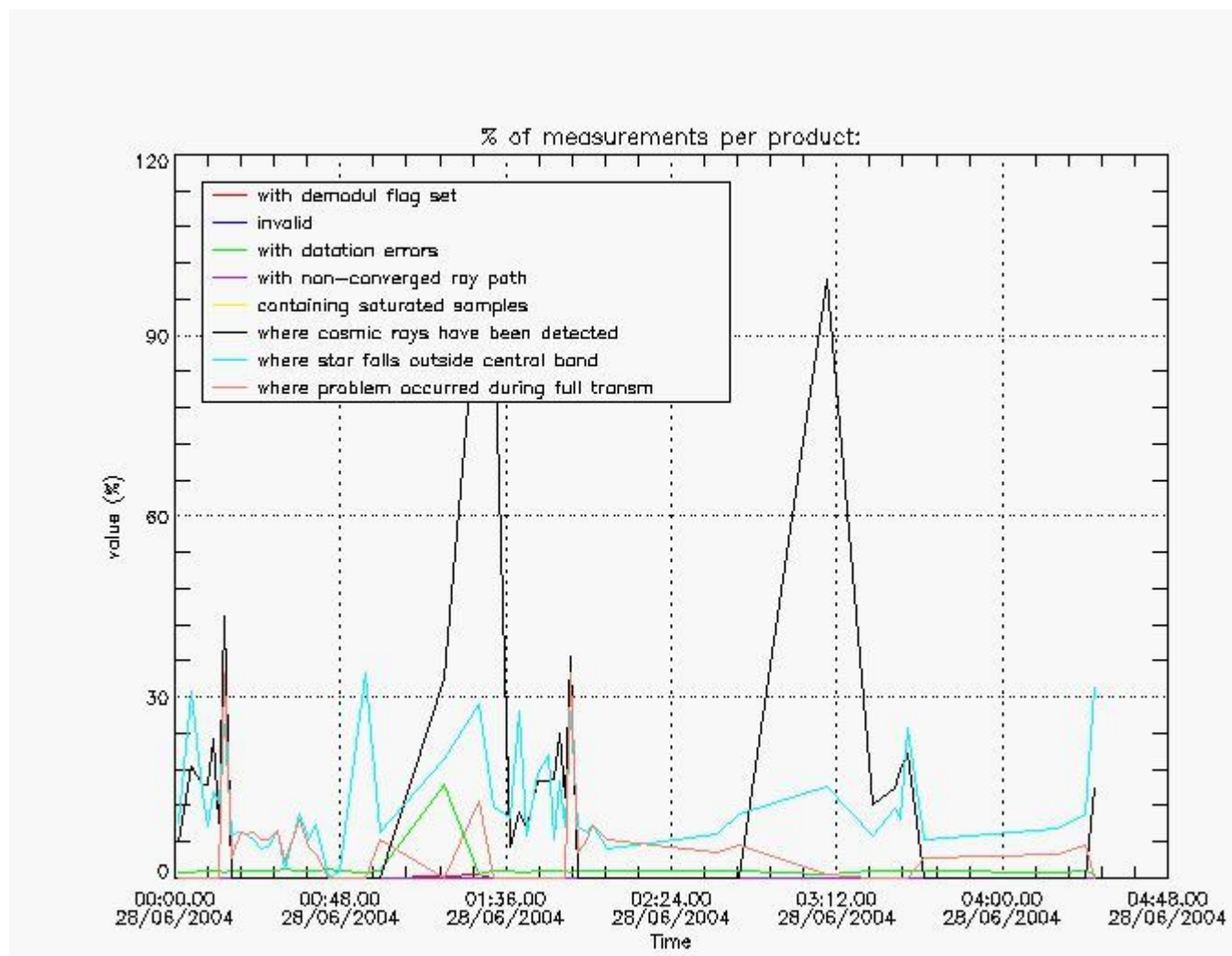
5. Demodulation flag and quality information monitoring

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.

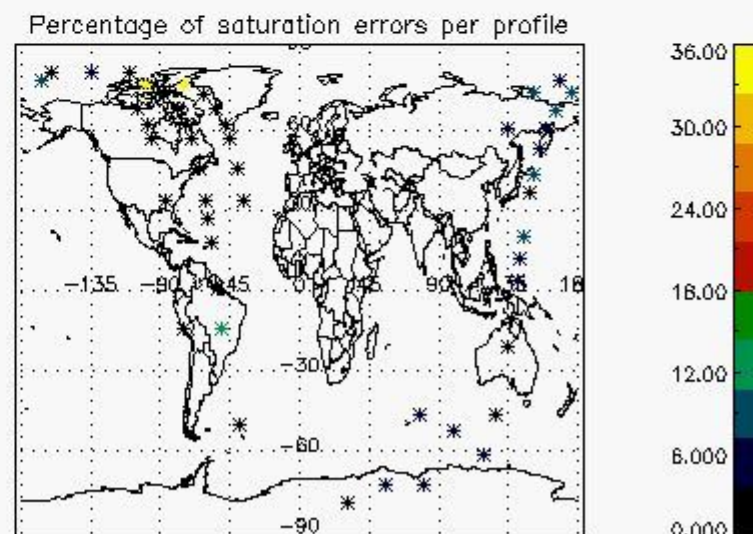
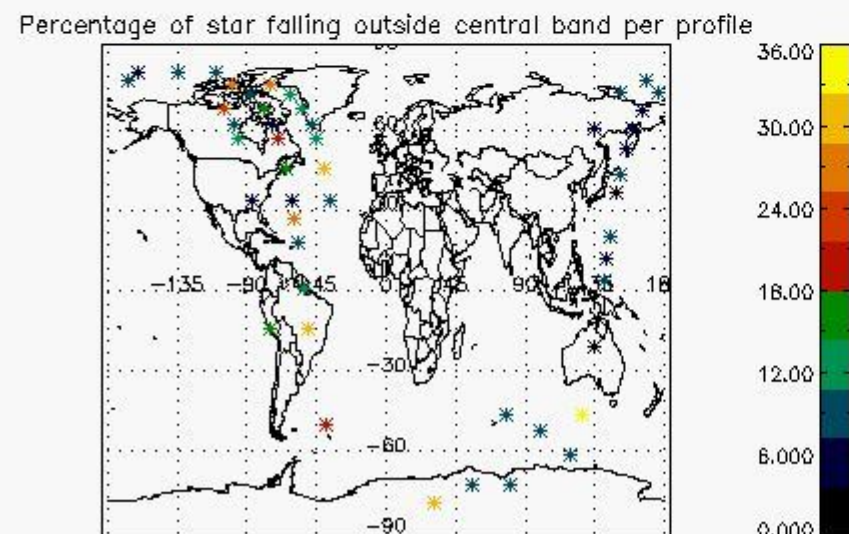
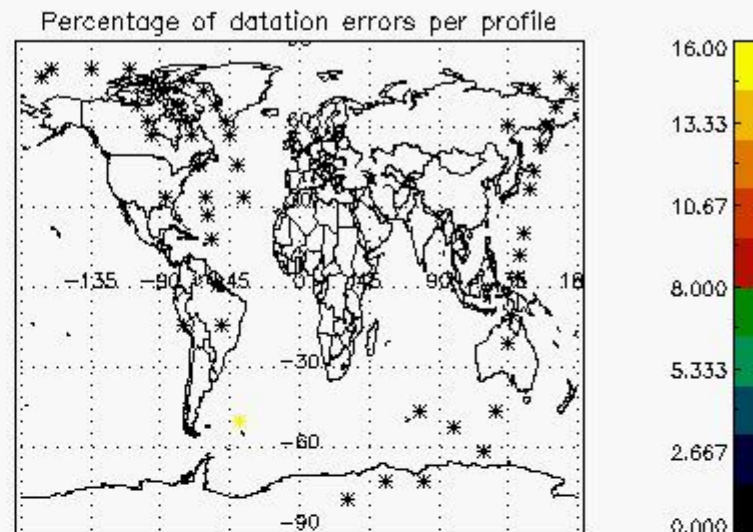
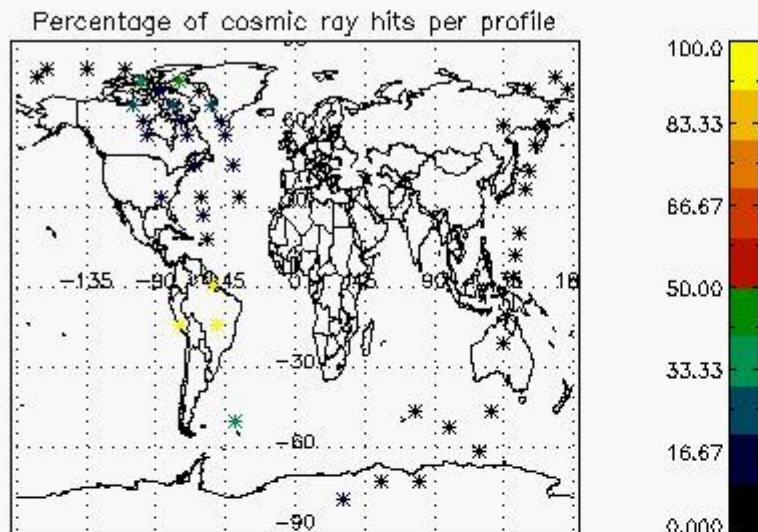
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	6.12245 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



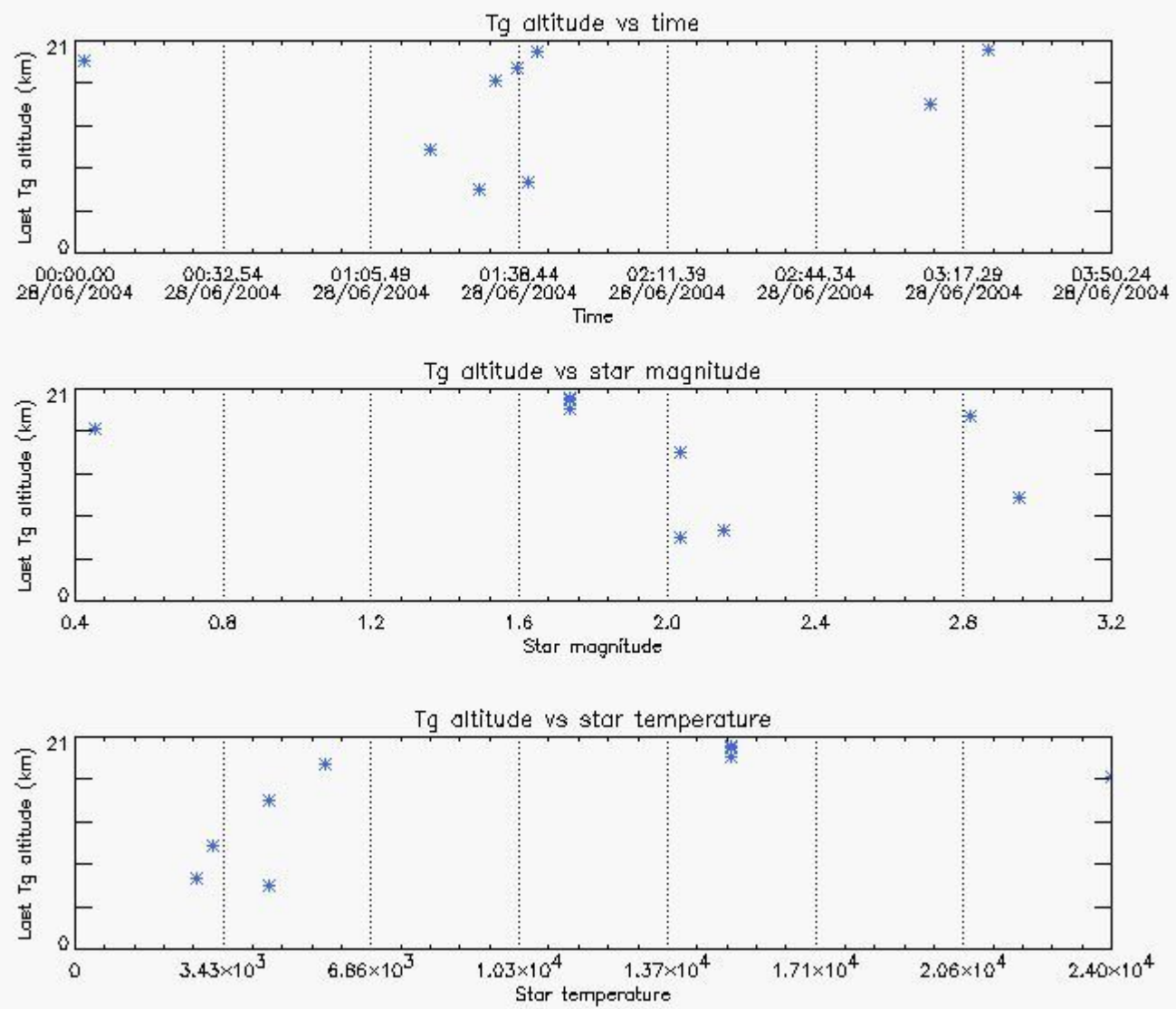
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.727	17.892	11.727
St. deviation:	5.5211	5.0997	6.1395
Maximum:	20.122	30.062	17.600
Minimum:	6.3218	4.5969	5.1339
Number of data:	9.0000	35.000	5.0000

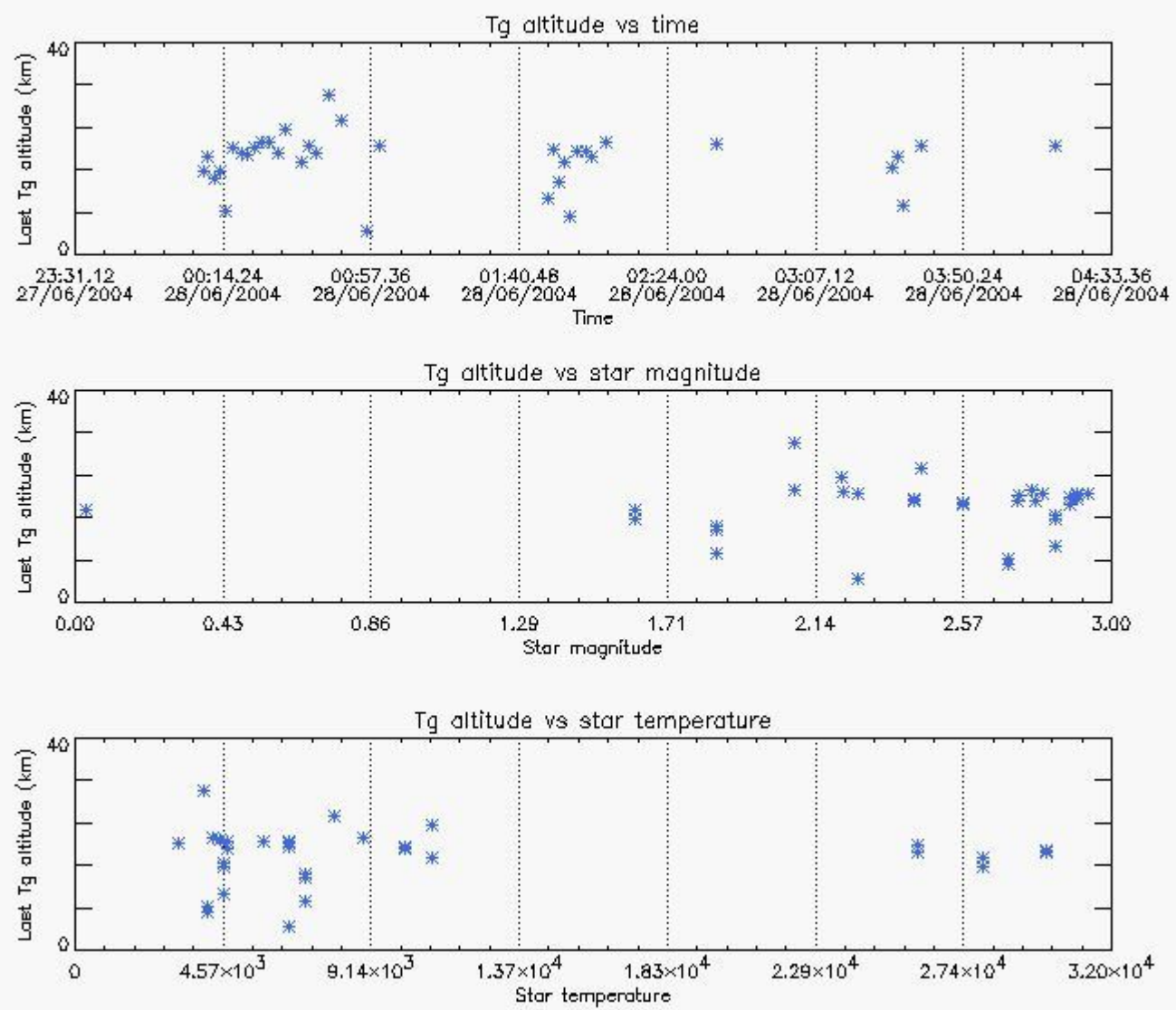
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



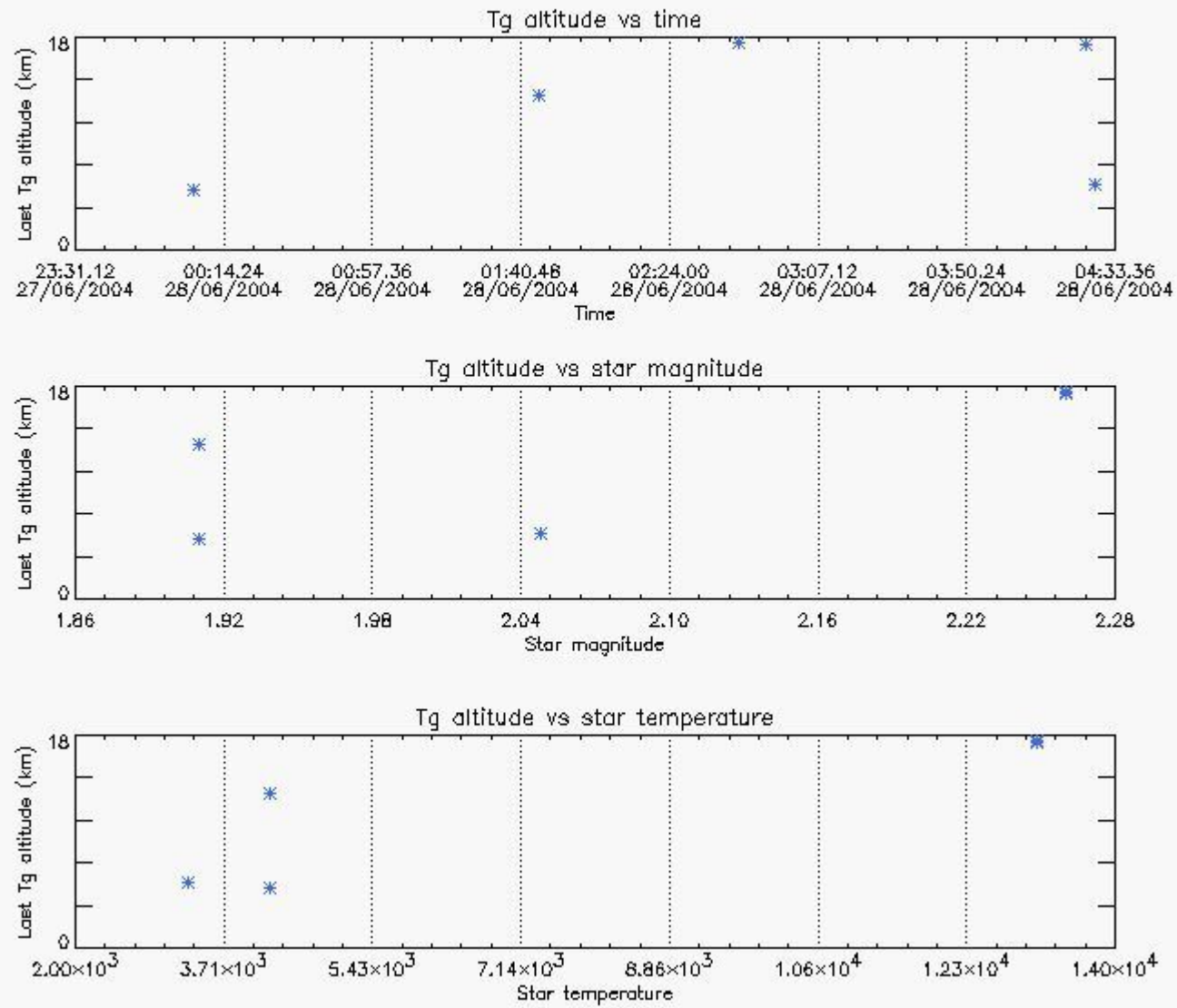
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

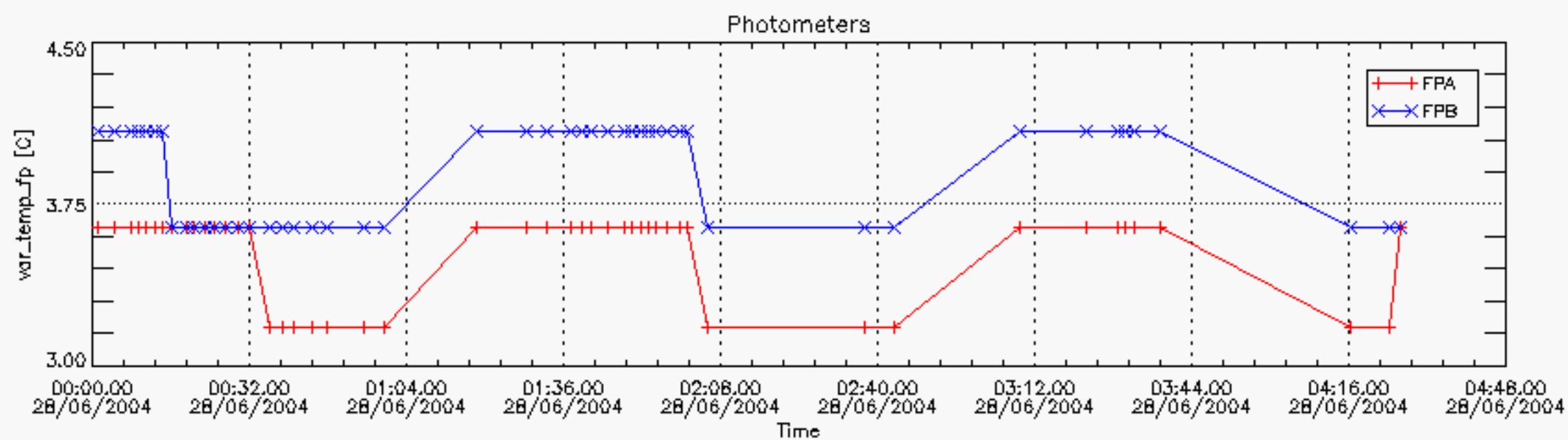
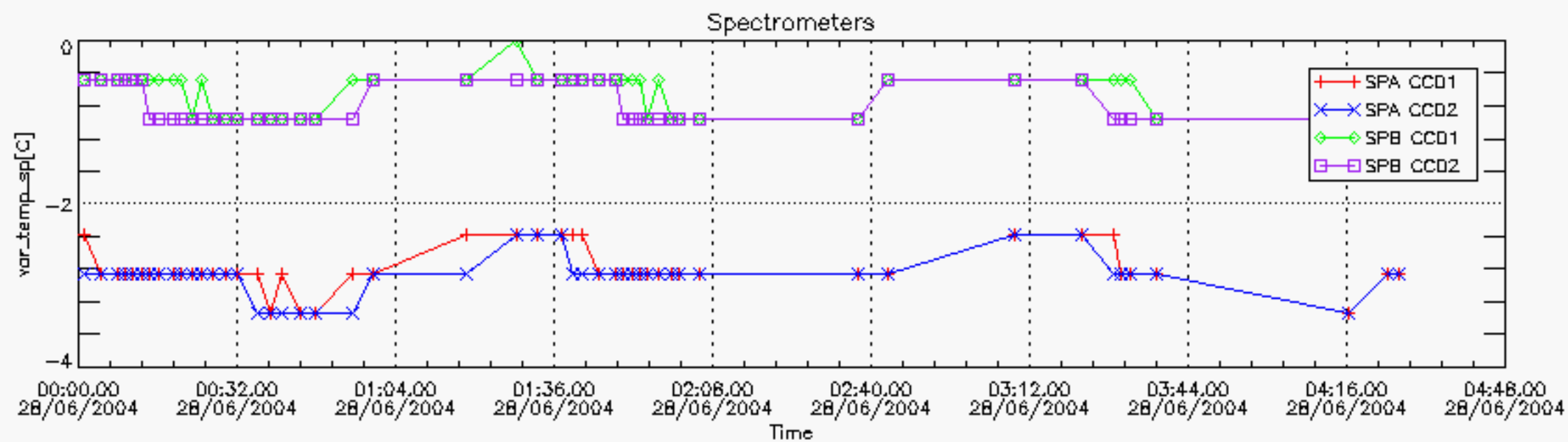
Tangent altitude at which the star is lost

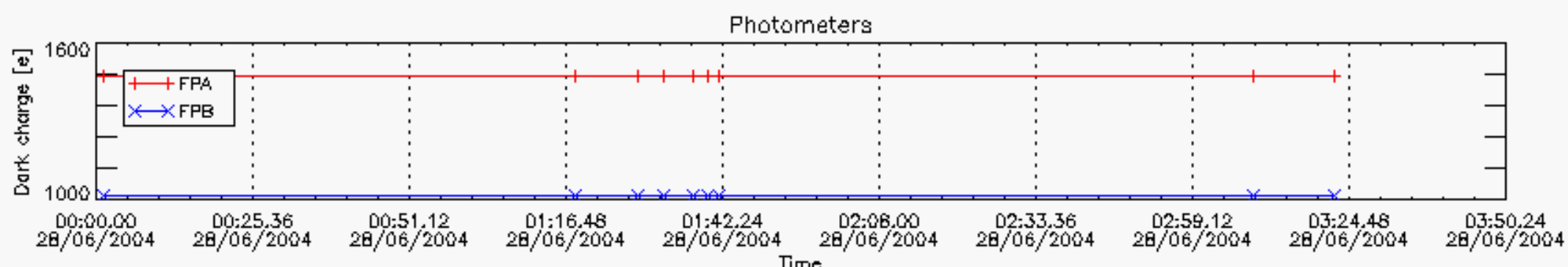
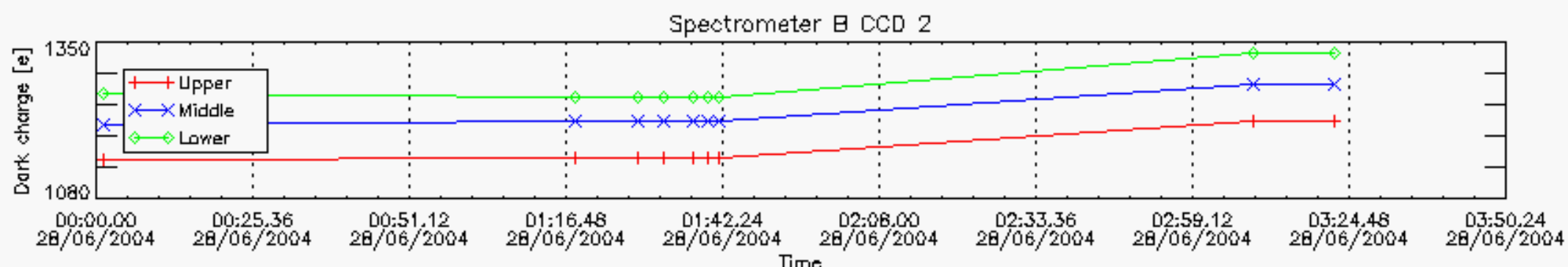
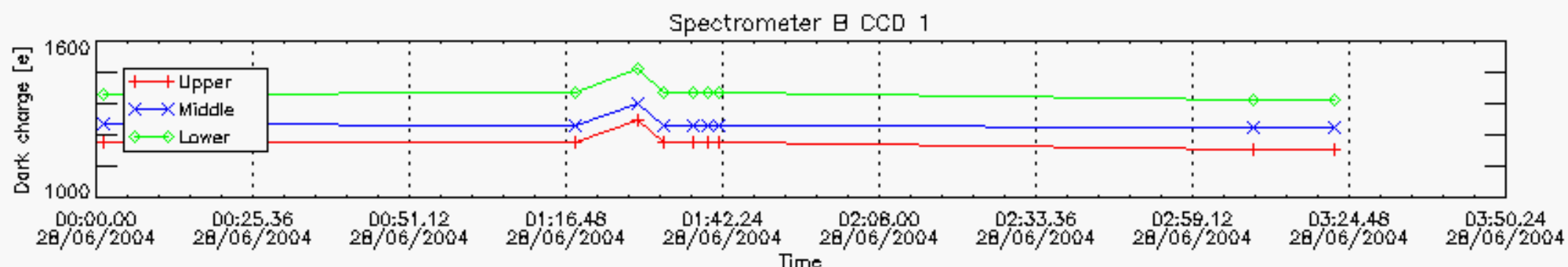
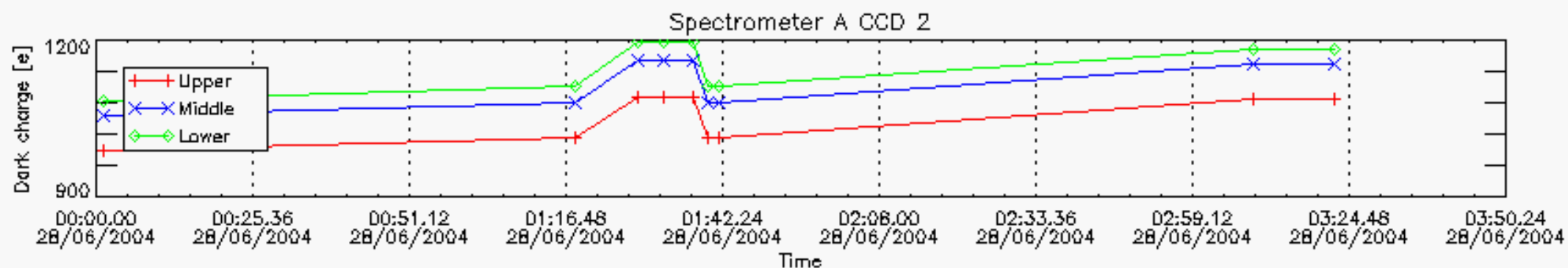
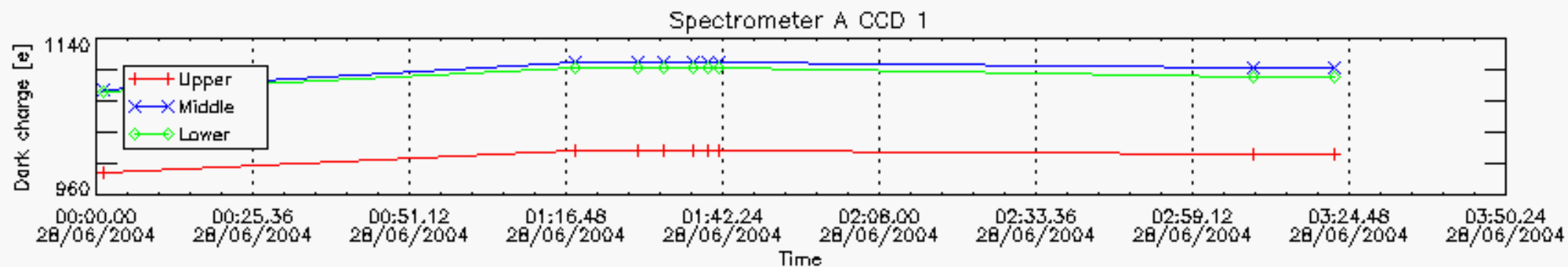


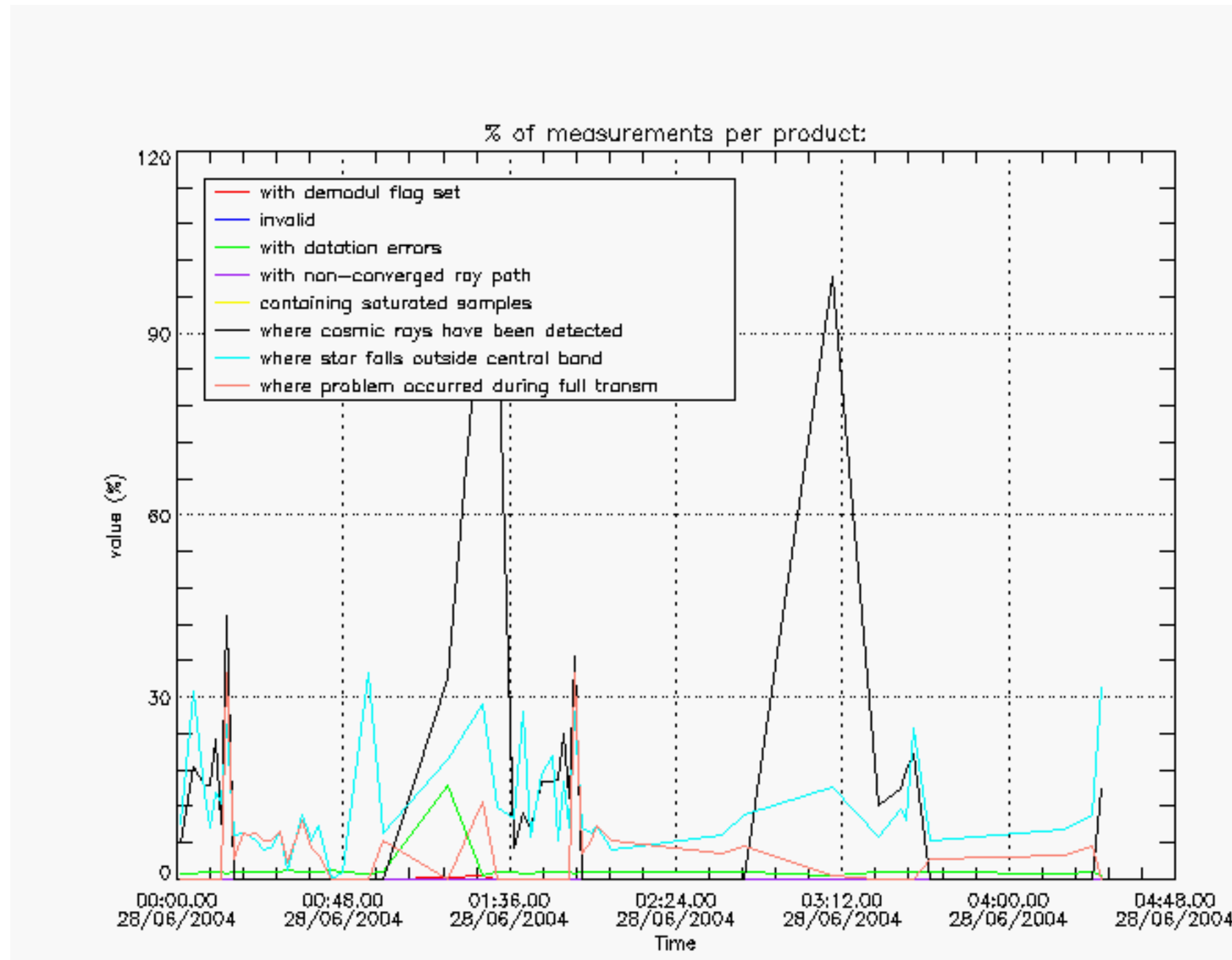
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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

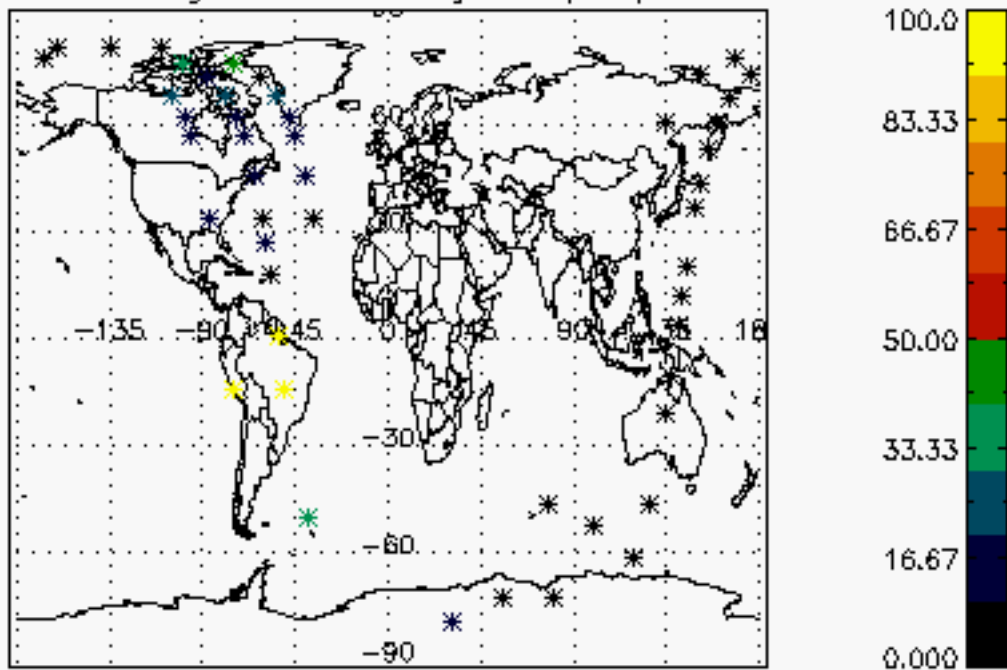
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.2	1448.5	1461.4	1446.9
St. deviation:	3.7265	5.3600	6.7327	7.9247
Maximum:	1542.0	1497.0	1503.0	1489.0
Minimum:	1449.0	1432.0	1443.0	1425.0
Number of data:	12750.	12750.	41800.	41800.



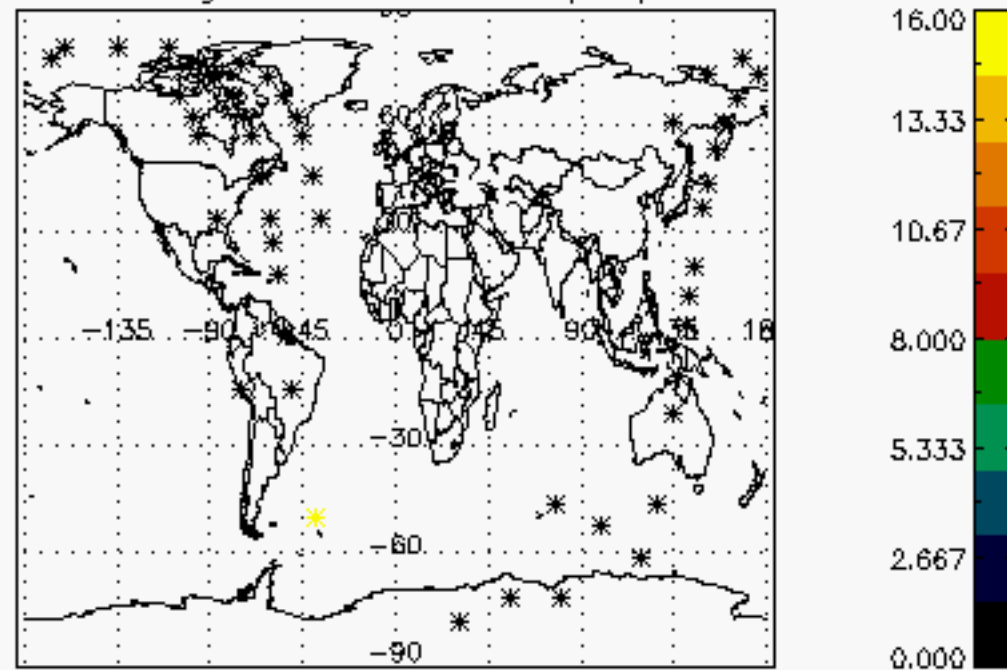




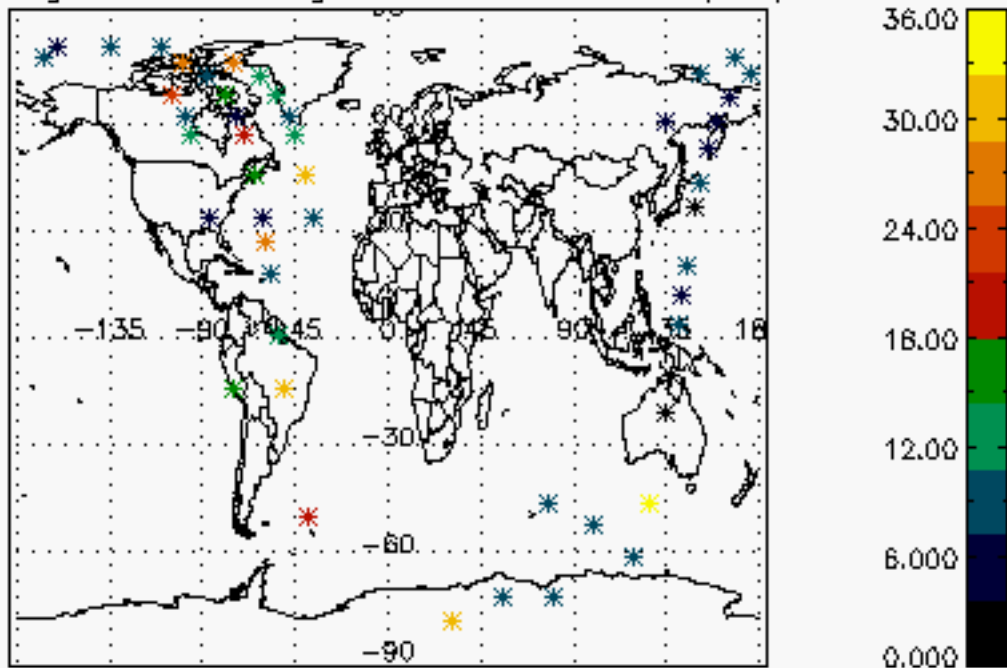
Percentage of cosmic ray hits per profile



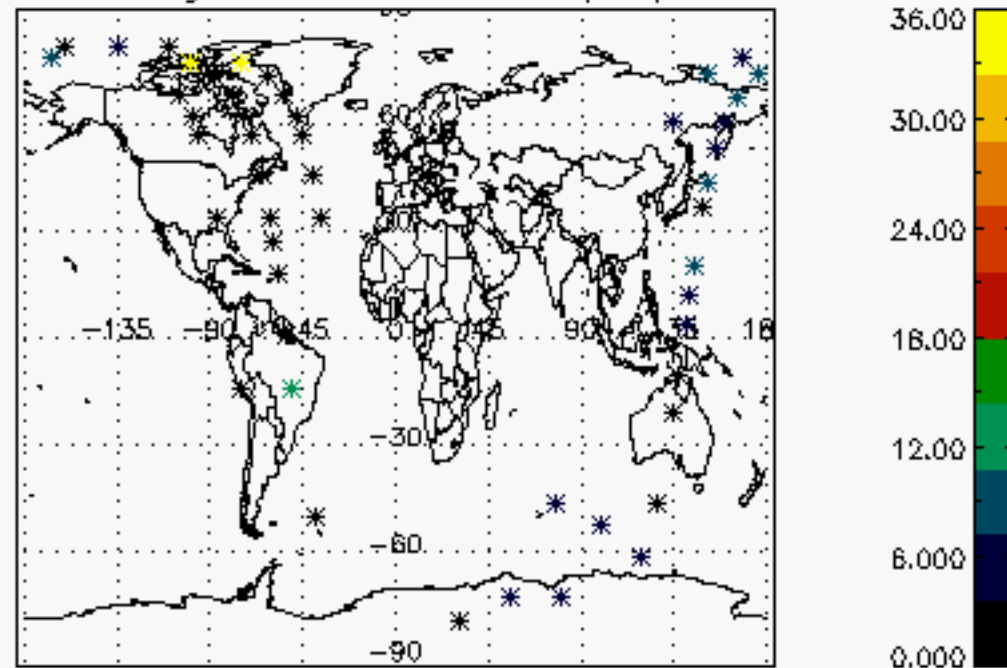
Percentage of datation errors per profile



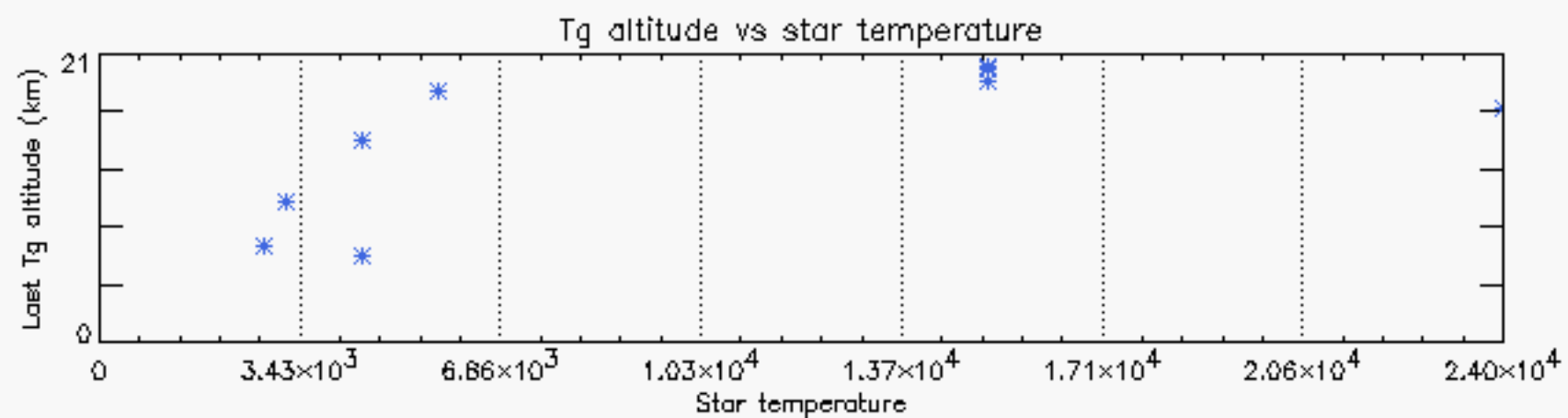
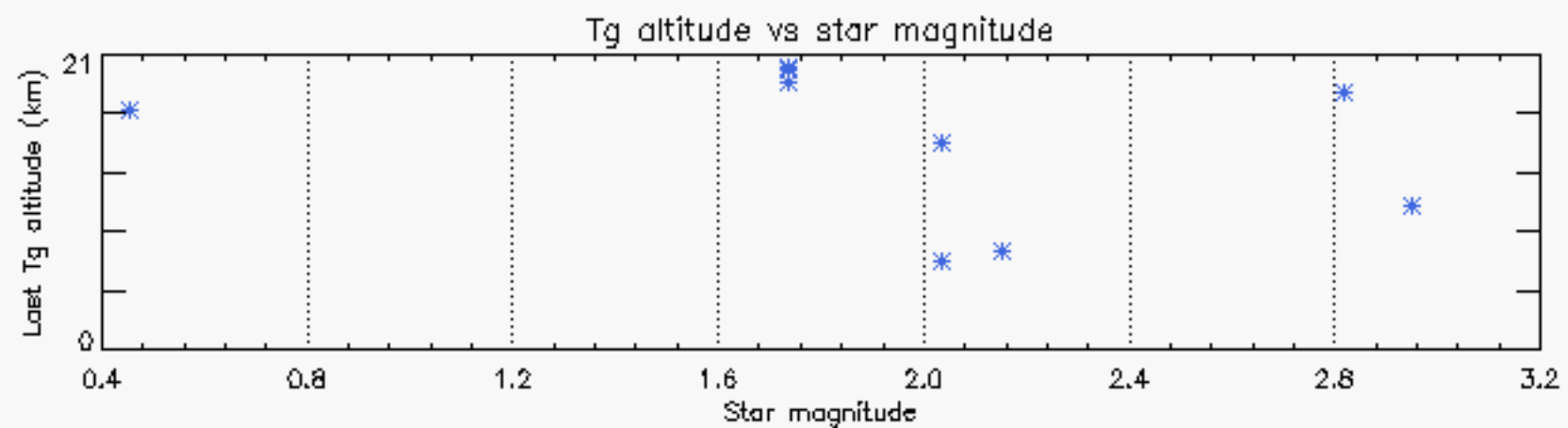
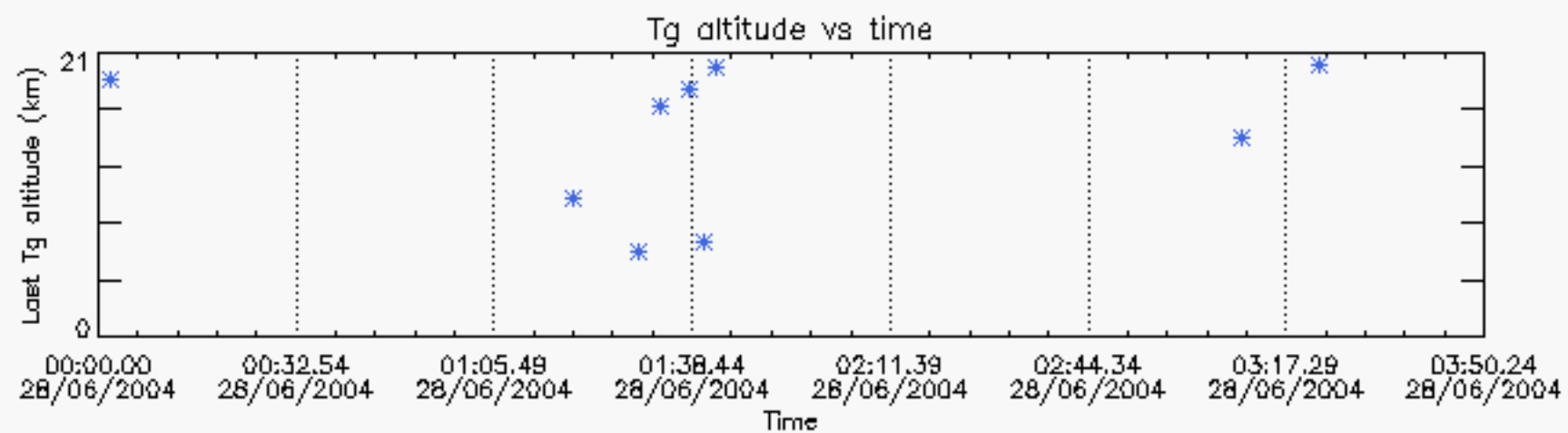
Percentage of star falling outside central band per profile



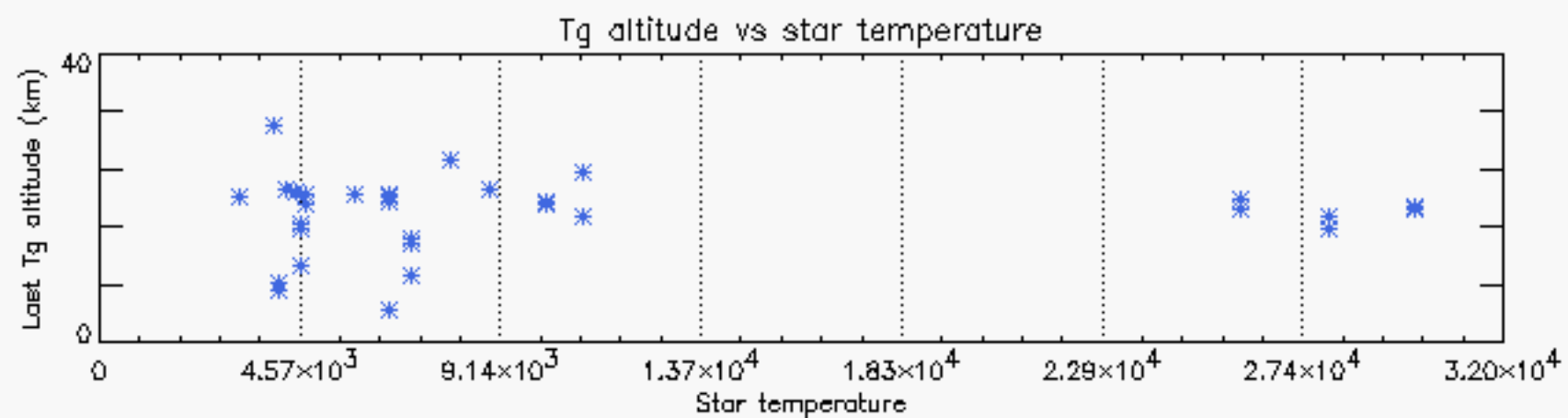
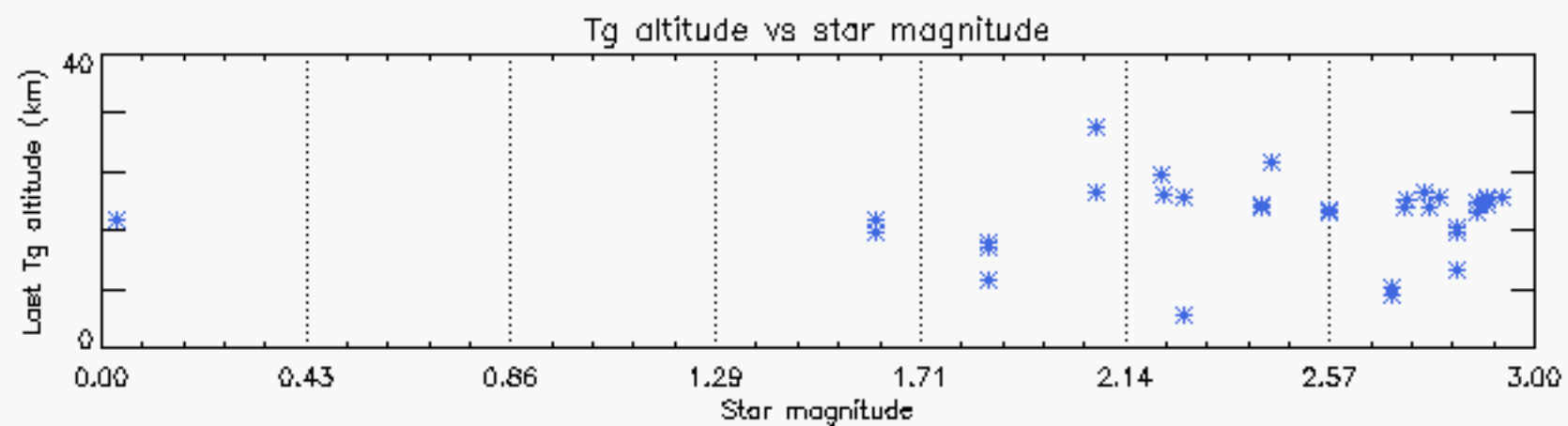
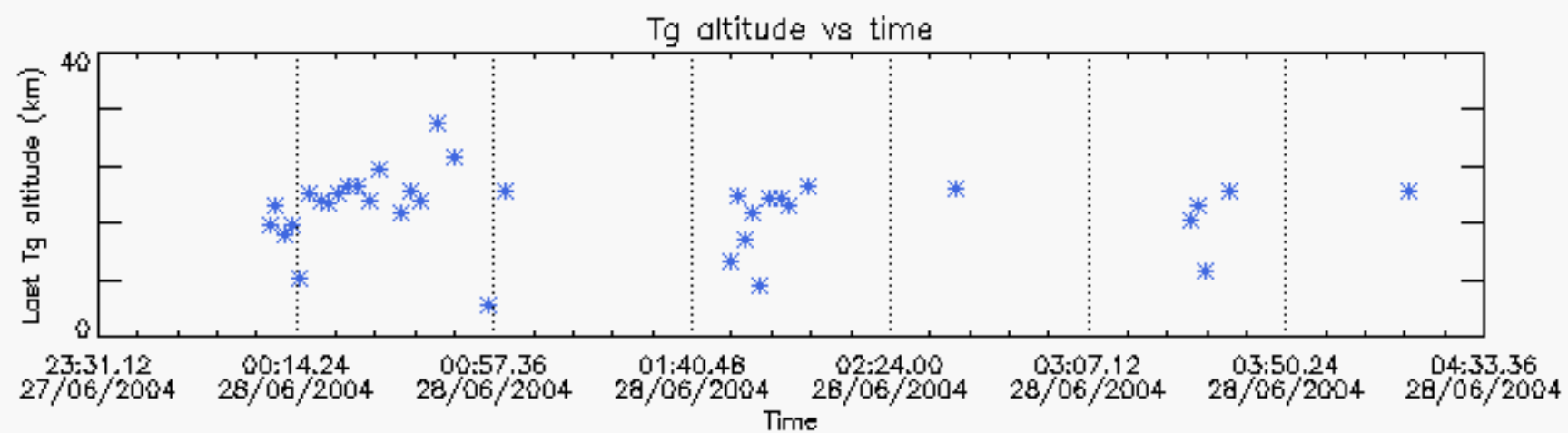
Percentage of saturation errors per profile



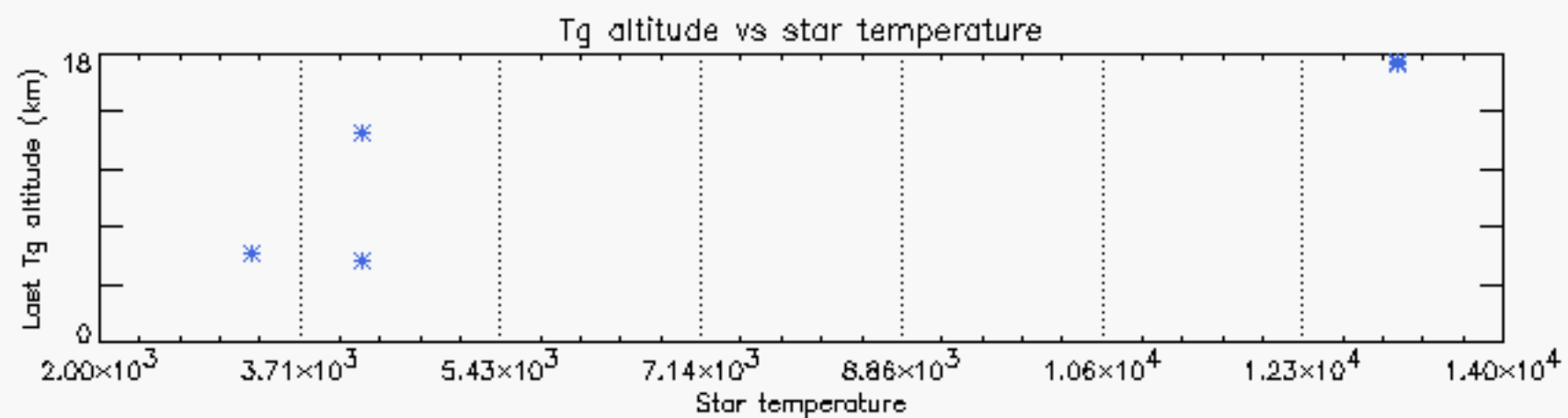
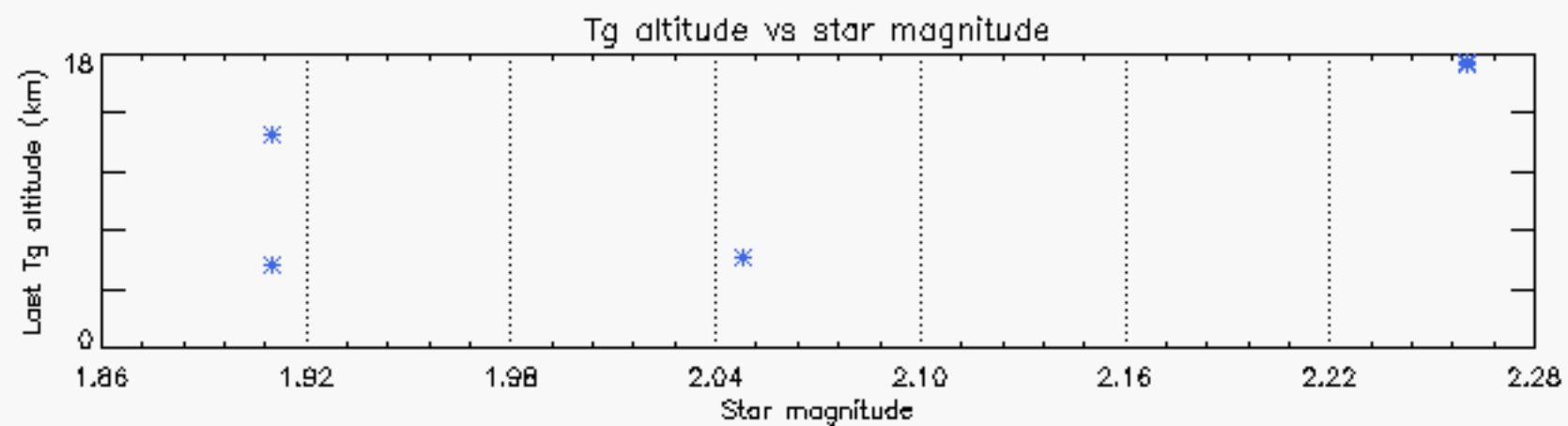
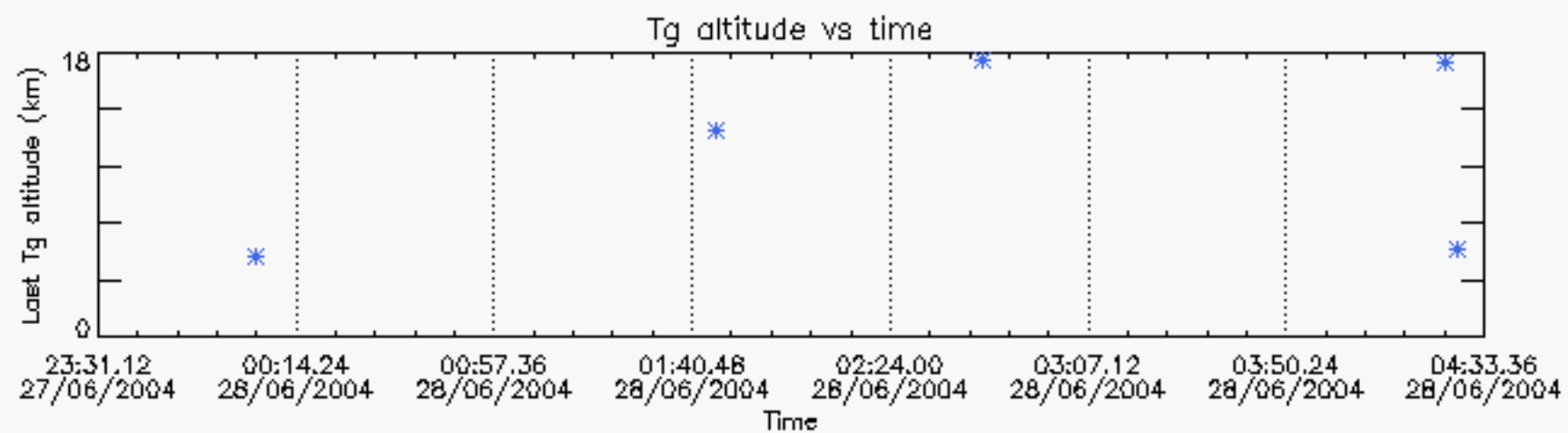
Tangent altitude at which the star is lost



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
9;	-3159.4;	01-JUN-2004	06:30:24;	Bright;	37.0;	55;	79Zet UMa	; 2.06;	10200;occ;	74;	0;	11783
10;	-3034.8;	01-JUN-2004	06:32:29;	Bright;	40.0;	119;	14Eta Dra	; 2.73;	4700;occ;	80;	0;	11783
11;	-2871.4;	01-JUN-2004	06:35:12;	Bright;	38.5;	60;	7Bet UMi	; 2.08;	3950;occ;	77;	0;	11783
12;	-2590.9;	01-JUN-2004	06:39:53;	Bright;	37.5;	49;	1Alp UMi	; 1.99;	6300;occ;	75;	0;	11783
13;	-2413.5;	01-JUN-2004	06:42:50;	Bright;	47.5;	89;	5Alp Cep	; 2.45;	8000;occ;	95;	0;	11783
14;	-1623.2;	01-JUN-2004	06:56:00;	Dark	; 180.0;	92;	53Eps Cyg	; 2.50;	4500;occ;	360;	0;	11783
15;	-1385.8;	01-JUN-2004	06:59:58;	Dark	; 91.0;	93;	53Bet Peg	; 2.52;	3100;occ;	182;	0;	11783
16;	-1180.9;	01-JUN-2004	07:03:23;	Dark	; 56.5;	140;	88Gam Peg	; 2.83;	26000;occ;	113;	0;	11783
17;	-975.5;	01-JUN-2004	07:06:48;	Dark	; 89.0;	90;	54Alp Peg	; 2.49;	11000;occ;	178;	0;	11783
18;	-639.9;	01-JUN-2004	07:12:24;	Dark	; 50.0;	52;	16Bet Cet	; 2.04;	4500;occ;	100;	0;	11783
19;	-471.2;	01-JUN-2004	07:15:12;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	11783
20;	-238.3;	01-JUN-2004	07:19:05;	Dark	; 44.5;	84;	Alp Phe	; 2.40;	4500;occ;	89;	0;	11783
21;	-111.7;	01-JUN-2004	07:21:12;	Dark	; 45.5;	9;	Alp Eri	; 0.45;	24000;occ;	91;	0;	11783
22;	83.3;	01-JUN-2004	07:24:27;	Dark	; 62.0;	63;	Bet Gru	; 2.15;	2800;occ;	124;	0;	11784
23;	196.7;	01-JUN-2004	07:26:20;	Dark	; 48.5;	31;	Alp Gru	; 1.73;	15200;occ;	97;	0;	11784
24;	492.8;	01-JUN-2004	07:31:16;	Dark	; 44.0;	45;	Alp Pav	; 1.94;	26000;occ;	88;	0;	11784
25;	707.4;	01-JUN-2004	07:34:51;	Dark	; 51.5;	43;	Alp TrA	; 1.91;	4250;occ;	103;	0;	11784
26;	831.3;	01-JUN-2004	07:36:55;	Dark	; 39.0;	134;	Bet TrA	; 2.81;	6600;occ;	78;	0;	11784
27;	937.5;	01-JUN-2004	07:38:41;	Dark	; 41.5;	147;	Alp Ara	; 2.88;	26000;occ;	83;	0;	11784
28;	1038.8;	01-JUN-2004	07:40:22;	Dark	; 46.5;	40;	The Sco	; 1.86;	7100;occ;	93;	0;	11784
29;	1146.6;	01-JUN-2004	07:42:10;	Dark	; 50.5;	25;	35Lam Sco	; 1.62;	28000;occ;	101;	0;	11784
30;	1252.0;	01-JUN-2004	07:43:56;	Dark	; 48.0;	75;	26Eps Sco	; 2.29;	4250;occ;	96;	0;	11784
31;	1373.5;	01-JUN-2004	07:45:57;	Dark	; 42.0;	136;	23Tau Sco	; 2.82;	30000;occ;	84;	0;	11784
32;	1498.2;	01-JUN-2004	07:48:02;	Bright;	41.5;	80;	7Del Sco	; 2.32;	30000;occ;	83;	0;	11784
33;	1590.3;	01-JUN-2004	07:49:34;	Bright;	47.5;	86;	35Eta Oph	; 2.43;	10200;occ;	95;	0;	11784
34;	1701.5;	01-JUN-2004	07:51:25;	Bright;	42.0;	98;	13Zet Oph	; 2.57;	30000;occ;	84;	0;	11784

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2;	-4022.3;	01-JUN-2004	07:56:37;	Bright;	37.5;	102;	24Alp Ser	; 2.60;	4250;occ;	75;	0;	11784
3;	-3779.4;	01-JUN-2004	08:00:40;	Bright;	36.0;	3;	16Alp Boo	; -0.05;	4250;occ;	72;	0;	11784
4;	-3664.5;	01-JUN-2004	08:02:35;	Bright;	38.0;	83;		; 2.38;	11000;occ;	76;	0;	11784
5;	-3473.0;	01-JUN-2004	08:05:46;	Bright;	35.0;	180;	27Gam Boo	; 3.04;	8000;occ;	70;	0;	11784
6;	-3267.8;	01-JUN-2004	08:09:12;	Bright;	37.0;	39;	85Eta UMa	; 1.85;	24000;occ;	74;	0;	11784
7;	-3159.2;	01-JUN-2004	08:11:00;	Bright;	36.5;	55;	79Zet UMa	; 2.06;	10200;occ;	73;	0;	11784
8;	-3035.3;	01-JUN-2004	08:13:04;	Bright;	39.5;	119;	14Eta Dra	; 2.73;	4700;occ;	79;	0;	11784
9;	-2871.6;	01-JUN-2004	08:15:48;	Bright;	34.5;	60;	7Bet UMi	; 2.08;	3950;occ;	69;	0;	11784
10;	-2590.9;	01-JUN-2004	08:20:29;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;	11784
11;	-2413.8;	01-JUN-2004	08:23:26;	Bright;	48.5;	89;	5Alp Cep	; 2.45;	8000;occ;	97;	0;	11784
12;	-1624.8;	01-JUN-2004	08:36:35;	Dark	; 180.0;	92;	53Eps Cyg	; 2.50;	4500;occ;	360;	0;	11784
13;	-1385.0;	01-JUN-2004	08:40:34;	Dark	; 94.0;	93;	53Bet Peg	; 2.52;	3100;occ;	188;	0;	11784
14;	-1180.3;	01-JUN-2004	08:43:59;	Dark	; 54.5;	140;	88Gam Peg	; 2.83;	26000;occ;	109;	0;	11784
15;	-974.1;	01-JUN-2004	08:47:25;	Dark	; 87.5;	90;	54Alp Peg	; 2.49;	11000;occ;	175;	0;	11784
16;	-639.4;	01-JUN-2004	08:53:00;	Dark	; 48.0;	52;	16Bet Cet	; 2.04;	4500;occ;	96;	0;	11784
17;	-471.0;	01-JUN-2004	08:55:48;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	11784
18;	-238.2;	01-JUN-2004	08:59:41;	Dark	; 46.5;	84;	Alp Phe	; 2.40;	4500;occ;	93;	0;	11784
19;	-111.3;	01-JUN-2004	09:01:48;	Dark	; 42.0;	9;	Alp Eri	; 0.45;	24000;occ;	84;	0;	11784
20;	84.2;	01-JUN-2004	09:05:04;	Dark	; 61.5;	63;	Bet Gru	; 2.15;	2800;occ;	123;	0;	11785
21;	197.4;	01-JUN-2004	09:06:57;	Dark	; 48.0;	31;	Alp Gru	; 1.73;	15200;occ;	96;	0;	11785
22;	493.5;	01-JUN-2004	09:11:53;	Dark	; 42.5;	45;	Alp Pav	; 1.94;	26000;occ;	85;	0;	11785
23;	707.7;	01-JUN-2004	09:15:27;	Dark	; 48.0;	43;	Alp TrA	; 1.91;	4250;occ;	96;	0;	11785
24;	831.2;	01-JUN-2004	09:17:31;	Dark	; 40.0;	134;	Bet TrA	; 2.81;	6600;occ;	80;	0;	11785
25;	938.0;	01-JUN-2004	09:19:17;	Dark	; 42.5;	147;	Alp Ara	; 2.88;	26000;occ;	85;	0;	11785
26;	1039.2;	01-JUN-2004	09:20:59;	Dark	; 46.5;	40;	The Sco	; 1.86;	7100;occ;	93;	0;	11785
27;	1146.7;	01-JUN-2004	09:22:46;	Dark	; 47.5;	25;	35Lam Sco	; 1.62;	28000;occ;	95;	0;	11785
28;	1252.1;	01-JUN-2004	09:24:32;	Dark	; 48.5;	75;	26Eps Sco	; 2.29;	4250;occ;	97;	0;	11785
29;	1373.6;	01-JUN-2004	09:26:33;	Dark	; 42.0;	136;	23Tau Sco	; 2.82;	30000;occ;	84;	0;	11785
30;	1498.2;	01-JUN-2004	09:28:38;	Bright;	38.5;	80;	7Del Sco	; 2.32;	30000;occ;	77;	0;	11785
31;	1590.3;	01-JUN-2004	09:30:10;	Bright;	46.5;	86;	35Eta Oph	; 2.43;	10200;occ;	93;	0;	11785
32;	1701.3;	01-JUN-2004	09:32:01;	Bright;	42.5;	98;	13Zet Oph	; 2.57;	30000;occ;	85;	0;	11785

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 2; -4203.3; 01-JUN-2004 09:34:12; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;11785
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 4; -3779.4; 01-JUN-2004 09:41:16; Bright; 38.5; 3; 16Alp Boo ; -0.05; 4250;occ; 77; 0;11785
 5; -3669.2; 01-JUN-2004 09:43:06; Bright; 38.5; 67; 5Alp CrB ; 2.22; 11000;occ; 77; 0;11785
 6; -3473.5; 01-JUN-2004 09:46:22; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;11785
 7; -3267.9; 01-JUN-2004 09:49:47; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;11785
 8; -3159.9; 01-JUN-2004 09:51:35; Bright; 37.5; 55; 79Zet UMa ; 2.06; 10200;occ; 75; 0;11785
 9; -3035.6; 01-JUN-2004 09:53:40; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;11785
 10; -2871.8; 01-JUN-2004 09:56:23; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;11785
 11; -2591.2; 01-JUN-2004 10:01:04; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;11785
 12; -2414.1; 01-JUN-2004 10:04:01; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;11785
 13; -2271.4; 01-JUN-2004 10:06:24; Bright; 83.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 166; 0;11785
 14; -2109.3; 01-JUN-2004 10:09:06; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;11785
 15; -1642.5; 01-JUN-2004 10:16:53; Bright; 46.5; 53; 43Bet And ; 2.05; 3300;occ; 93; 0;11785
 16; -1479.3; 01-JUN-2004 10:19:36; Dark ; 57.5; 58; 21Alp And ; 2.07; 11000;occ; 115; 0;11785
 17; -1384.9; 01-JUN-2004 10:21:10; Dark ; 92.0; 93; 53Bet Peg ; 2.52; 3100;occ; 184; 0;11785
 18; -1179.9; 01-JUN-2004 10:24:35; Dark ; 54.5; 140; 88Gam Peg ; 2.83; 26000;occ; 109; 0;11785
 19; -972.5; 01-JUN-2004 10:28:03; Dark ; 90.5; 90; 54Alp Peg ; 2.49; 11000;occ; 181; 0;11785
 20; -639.0; 01-JUN-2004 10:33:36; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;11785
 21; -470.9; 01-JUN-2004 10:36:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11785
 22; -237.6; 01-JUN-2004 10:40:18; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;11785
 23; -111.6; 01-JUN-2004 10:42:24; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;11785
 24; 84.9; 01-JUN-2004 10:45:40; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;11786
 25; 198.2; 01-JUN-2004 10:47:34; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;11786
 26; 493.7; 01-JUN-2004 10:52:29; Dark ; 45.5; 45; Alp Pav ; 1.94; 26000;occ; 91; 0;11786
 27; 707.4; 01-JUN-2004 10:56:03; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;11786
 28; 830.9; 01-JUN-2004 10:58:06; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;11786
 29; 938.1; 01-JUN-2004 10:59:53; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;11786
 30; 1039.3; 01-JUN-2004 11:01:35; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;11786
 31; 1146.9; 01-JUN-2004 11:03:22; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;11786
 32; 1252.1; 01-JUN-2004 11:05:07; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;11786
 33; 1373.3; 01-JUN-2004 11:07:09; Dark ; 44.0; 136; 23Tau Sco ; 2.82; 30000;occ; 88; 0;11786
 34; 1497.9; 01-JUN-2004 11:09:13; Bright; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;11786
 35; 1590.0; 01-JUN-2004 11:10:45; Bright; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;11786

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 2; -4335.0; 01-JUN-2004 11:12:36; Bright; 44.0; 98; 13Zet Oph ; 2.57; 30000;occ; 88; 0;11786
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 5; -3779.8; 01-JUN-2004 11:21:51; Bright; 40.5; 3; 16Alp Boo ; -0.05; 4250;occ; 81; 0;11786
 6; -3669.5; 01-JUN-2004 11:23:42; Bright; 40.0; 67; 5Alp CrB ; 2.22; 11000;occ; 80; 0;11786
 7; -3474.4; 01-JUN-2004 11:26:57; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;11786
 8; -3268.7; 01-JUN-2004 11:30:23; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;11786
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 12; -2592.3; 01-JUN-2004 11:41:39; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;11786
 13; -2415.0; 01-JUN-2004 11:44:36; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;11786
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 15; -2109.8; 01-JUN-2004 11:49:41; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;11786
 16; -1642.0; 01-JUN-2004 11:57:29; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;11786
 17; -1479.1; 01-JUN-2004 12:00:12; Dark ; 57.0; 58; 21Alp And ; 2.07; 11000;occ; 114; 0;11786
 18; -1384.1; 01-JUN-2004 12:01:47; Dark ; 85.0; 93; 53Bet Peg ; 2.52; 3100;occ; 170; 0;11786
 19; -1179.0; 01-JUN-2004 12:05:12; Dark ; 54.0; 140; 88Gam Peg ; 2.83; 26000;occ; 108; 0;11786
 20; -970.9; 01-JUN-2004 12:08:40; Dark ; 89.5; 90; 54Alp Peg ; 2.49; 11000;occ; 179; 0;11786
 21; -639.4; 01-JUN-2004 12:14:12; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;11786
 22; -470.6; 01-JUN-2004 12:17:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11786
 23; -237.6; 01-JUN-2004 12:20:54; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;11786
 24; -111.0; 01-JUN-2004 12:23:00; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;11786
 25; 85.5; 01-JUN-2004 12:26:17; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;11787
 26; 198.9; 01-JUN-2004 12:28:10; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;11787
 27; 494.1; 01-JUN-2004 12:33:05; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11787
 28; 707.7; 01-JUN-2004 12:36:39; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;11787
 29; 831.2; 01-JUN-2004 12:38:42; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11787
 30; 938.2; 01-JUN-2004 12:40:29; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;11787
 31; 1039.4; 01-JUN-2004 12:42:11; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;11787

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32; 1147.0; 01-JUN-2004 12:43:58; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;11787
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34; 1373.0; 01-JUN-2004 12:47:44; Dark ; 46.0; 136; 23Tau Sco ; 2.82; 30000;occ; 92; 0;11787
35; 1497.1; 01-JUN-2004 12:49:48; Bright; 41.0; 80; 7Del Sco ; 2.32; 30000;occ; 82; 0;11787
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3;-4206.6; 01-JUN-2004 12:55:21; Bright; 44.0; 120; 1Del Oph ; 2.73; 3200;occ; 88; 0;11787
4;-4022.7; 01-JUN-2004 12:58:24; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;11787
5;-3780.1; 01-JUN-2004 13:02:27; Bright; 38.5; 3; 16Alp Boo ; -0.05; 4250;occ; 77; 0;11787
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```

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 32; 1603.8; 10-JUN-2004 08:07:02; Bright; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;11913
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/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040610_081055_000059472027_00336_11913_0941.N1

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 13;-1631.1; 10-JUN-2004 08:53:43; Dark ; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 0;11913
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 17; -544.6; 10-JUN-2004 09:11:50; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;11913
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 22; 578.8; 10-JUN-2004 09:30:33; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;11914
 23; 732.7; 10-JUN-2004 09:33:07; Dark ; 43.0; 43; Alp TrA ; 1.91; 4250;occ; 86; 0;11914
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 26; 1089.0; 10-JUN-2004 09:39:04; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;11914
 27; 1173.3; 10-JUN-2004 09:40:28; Dark ; 54.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 108; 0;11914
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 31; 1709.6; 10-JUN-2004 09:49:24; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;11914

/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040610_094943_000059522027_00337_11914_0942.N1

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```

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23; 579.4; 10-JUN-2004 11:11:10; Dark ; 46.5; 45; Alp Pav ; 1.94; 26000;occ; 93; 0;11915
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
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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
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20;-442.9; 10-JUN-2004 14:15:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11916
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22; 74.3; 10-JUN-2004 14:23:56; Dark ; 63.5; 18; 24Alp PsA ; 1.17; 9700;occ; 127; 0;11917
23; 323.4; 10-JUN-2004 14:28:06; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;11917
24; 580.0; 10-JUN-2004 14:32:22; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;11917
25; 733.3; 10-JUN-2004 14:34:56; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;11917
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7;-3753.4; 10-JUN-2004 15:00:45; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;11917
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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
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28; 909.8; 11-JUN-2004 07:23:51; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;11927
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31; 1198.7; 11-JUN-2004 07:28:40; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;11927
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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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24; 335.8; 11-JUN-2004 08:54:53; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;11928
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24; 216.6; 11-JUN-2004 13:54:42; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;11931
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4;-4182.8; 12-JUN-2004 13:50:21; Bright; 51.5; 0; ; 0.00; 0;occ; 103; 0;11945
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14;-2425.5; 12-JUN-2004 14:19:39; Bright; 51.5; 0; ; 0.00; 0;occ; 103; 0;11945
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23; 261.4; 12-JUN-2004 15:04:25; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;11946
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12;-3222.4; 12-JUN-2004 15:46:58; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;11946
13;-3109.4; 12-JUN-2004 15:48:51; Bright; 40.0; 55; 79Zet UMa ; 2.06; 10200;occ; 80; 0;11946
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22; -408.2; 12-JUN-2004 16:33:52; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;11946
23; -70.7; 12-JUN-2004 16:39:29; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;11946
24; 122.7; 12-JUN-2004 16:42:43; Dark ; 72.0; 18; 24Alp PsA ; 1.17; 9700;occ; 144; 0;11947
25; 261.1; 12-JUN-2004 16:45:01; Dark ; 40.5; 135; Bet Hyi ; 2.82; 5800;occ; 81; 0;11947
26; 354.6; 12-JUN-2004 16:46:35; Dark ; 55.5; 31; Alp Gru ; 1.73; 15200;occ; 111; 0;11947
27; 454.1; 12-JUN-2004 16:48:14; Dark ; 59.5; 172; Gam Gru ; 3.00; 13100;occ; 119; 0;11947
28; 599.3; 12-JUN-2004 16:50:39; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;11947
29; 738.5; 12-JUN-2004 16:52:59; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;11947
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31; 996.2; 12-JUN-2004 16:57:16; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;11947
32; 1101.0; 12-JUN-2004 16:59:01; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;11947
33; 1204.6; 12-JUN-2004 17:00:45; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;11947
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2;-4729.9; 12-JUN-2004 17:02:26; Dark ; 61.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 123; 0;11947
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4;-4428.6; 12-JUN-2004 17:07:27; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;11947
5;-4323.7; 12-JUN-2004 17:09:12; Bright; 39.5; 98; 13Zet Oph ; 2.57; 30000;occ; 79; 0;11947
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```

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22; -557.4; 12-JUN-2004 18:11:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11947
23; -407.9; 12-JUN-2004 18:14:28; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;11947
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25; 124.4; 12-JUN-2004 18:23:20; Dark ; 68.0; 18; 24Alp PsA ; 1.17; 9700;occ; 136; 0;11948
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24; 346.2; 12-JUN-2004 03:21:39; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;11939
25; 443.2; 12-JUN-2004 03:23:16; Dark ; 58.5; 172; Gam Gru ; 3.00; 13100;occ; 117; 0;11939
26; 594.4; 12-JUN-2004 03:25:47; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;11939
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24; 467.4; 13-JUN-2004 09:34:27; Dark ; 59.0; 172; Gam Gru ; 3.00; 13100;occ; 118; 0;11957
25; 605.5; 13-JUN-2004 09:36:45; Dark ; 46.5; 45; Alp Pav ; 1.94; 26000;occ; 93; 0;11957
26; 740.0; 13-JUN-2004 09:38:59; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;11957
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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
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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
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26; 606.5; 13-JUN-2004 12:57:58; Dark ; 46.0; 45; Alp Pav ; 1.94; 26000;occ; 92; 0;11959
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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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3;-4196.2; 13-JUN-2004 13:18:31; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;11959
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```

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```

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18;-1976.8; 13-JUN-2004 17:16:42; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;11961
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22;-1265.7; 13-JUN-2004 17:28:33; Dark ; 179.5; 93; 53Bet Peg ; 2.52; 3100;occ; 359; 0;11961
23; -536.0; 13-JUN-2004 17:40:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11961
24; -405.5; 13-JUN-2004 17:42:54; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;11961
25; -65.3; 13-JUN-2004 17:48:34; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;11961
26; 147.1; 13-JUN-2004 17:52:06; Dark ; 68.5; 18; 24Alp PsA ; 1.17; 9700;occ; 137; 0;11962
27; 369.0; 13-JUN-2004 17:55:48; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;11962
28; 474.6; 13-JUN-2004 17:57:34; Dark ; 60.5; 172; Gam Gru ; 3.00; 13100;occ; 121; 0;11962
29; 608.9; 13-JUN-2004 17:59:48; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11962
30; 740.5; 13-JUN-2004 18:01:59; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;11962
31; 856.2; 13-JUN-2004 18:03:55; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;11962
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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; 465.0; 13-JUN-2004 06:13:12; Dark ; 62.0; 172; Gam Gru ; 3.00; 13100;occ; 124; 0;11955
25; 604.3; 13-JUN-2004 06:15:32; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;11955
26; 739.5; 13-JUN-2004 06:17:47; Dark ; 52.0; 43; Alp TrA ; 1.91; 4250;occ; 104; 0;11955
27; 855.7; 13-JUN-2004 06:19:43; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;11955
28; 998.7; 13-JUN-2004 06:22:06; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;11955
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32; 1419.5; 13-JUN-2004 06:29:07; Bright; 59.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 119; 0;11955
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31; 609.7; 13-JUN-2004 19:40:25; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;11963
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26; 3349.1; 30-JUN-2004 01:24:57; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;12195
27; 3788.4; 30-JUN-2004 01:32:17; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;12195
28; 3889.9; 30-JUN-2004 01:33:58; Bright; 49.0; 68; 18Alp Cas ; 2.22; 4500;occ; 98; 0;12195
29; 4062.1; 30-JUN-2004 01:36:50; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;12195
30; 4164.1; 30-JUN-2004 01:38:32; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;12195
31; 4266.4; 30-JUN-2004 01:40:15; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;12195
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