GOMOS Daily Report 24-JUN-2004

Level 0 and Level 1 products

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Level 2 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	25JUN2004 07:01:31
Data source version	GOMOS/4.02
Start time of products	24-JUN-2004 (24JUN2004 00:00:00)
Stop time of products	25-JUN-2004 (25JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

2. Summary of products arrived in PCF

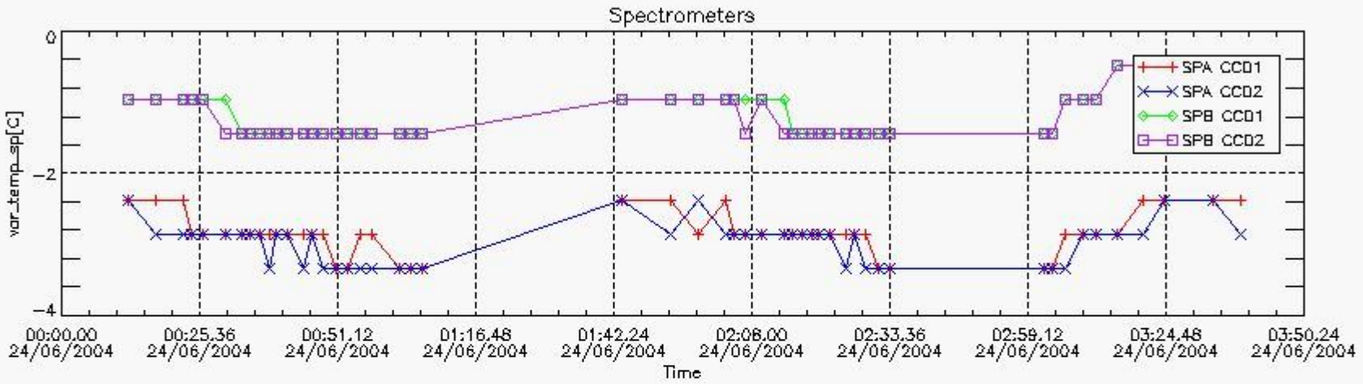
2.1 Level 0 products arrived in PCF (see template here)

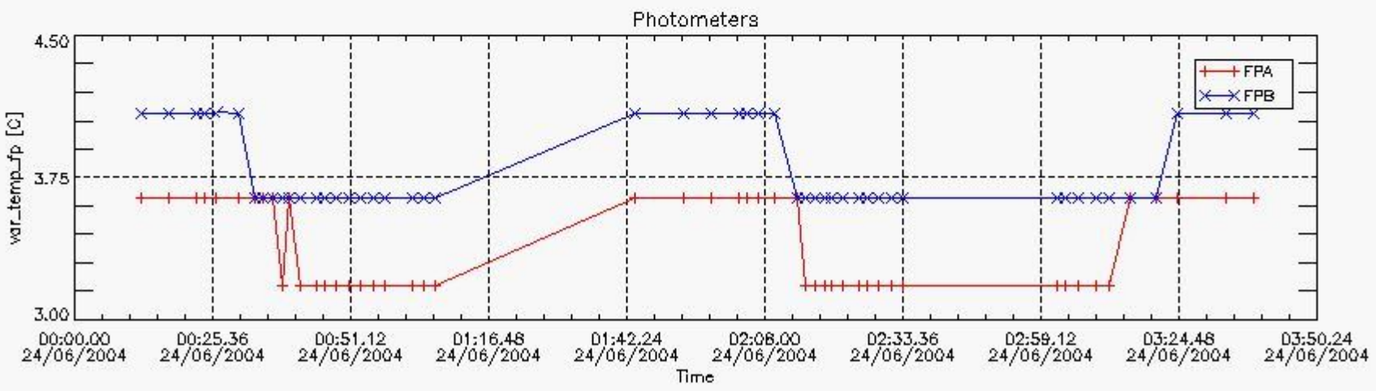
2.2 Summary of processed GOM_TRA_1P products.

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040624_001212_000000712028_00030_12108_0000.N1	24-JUN-2004 00:12:12	Dark	71.000	52	16Bet Cet	2.0370	4500.0	142	12108	No
GOM_TRA_1PNPDE20040624_001729_000000542028_00031_12109_0001.N1	24-JUN-2004 00:17:29	Dark	54.000	9	Alp Eri	0.45300	24000.	108	12109	No
GOM_TRA_1PNPDE20040624_002232_000000402028_00031_12109_0002.N1	24-JUN-2004 00:22:32	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	12109	No
GOM_TRA_1PNPDE20040624_002410_000000562028_00031_12109_0003.N1	24-JUN-2004 00:24:10	Dark	56.000	63	Bet Gru	2.1500	2800.0	112	12109	No
GOM_TRA_1PNPDE20040624_002612_000000512028_00031_12109_0004.N1	24-JUN-2004 00:26:12	Dark	51.000	31	Alp Gru	1.7340	15200.	102	12109	No
GOM_TRA_1PNPDE20040624_003019_000000512028_00031_12109_0005.N1	24-JUN-2004 00:30:19	Twilight	50.500	43	Alp TrA	1.9100	4250.0	101	12109	No
GOM_TRA_1PNPDE20040624_003334_000000422028_00031_12109_0006.N1	24-JUN-2004 00:33:34	Bright	41.500	141	Bet Ara	2.8400	4600.0	83	12109	No
GOM_TRA_1PNPDE20040624_003457_000000442028_00031_12109_0007.N1	24-JUN-2004 00:34:57	Bright	43.500	147	Alp Ara	2.8770	26000.	87	12109	No
GOM_TRA_1PNPDE20040624_003646_000000462028_00031_12109_0008.N1	24-JUN-2004 00:36:46	Bright	46.000	40	The Sco	1.8590	7100.0	92	12109	No
GOM_TRA_1PNPDE20040624_003827_000000452028_00031_12109_0009.N1	24-JUN-2004 00:38:27	Bright	45.000	25	35Lam Sco	1.6200	28000.	90	12109	No
GOM_TRA_1PNPDE20040624_003946_000000512028_00031_12109_0010.N1	24-JUN-2004 00:39:46	Bright	51.000	116	19Del Sgr	2.7000	4100.0	102	12109	No
GOM_TRA_1PNPDE20040624_004158_000000522028_00031_12109_0011.N1	24-JUN-2004 00:41:58	Bright	52.000	155	41Pi Sgr	2.9000	6600.0	104	12109	No
GOM_TRA_1PNPDE20040624_004444_000000422028_00031_12109_0012.N1	24-JUN-2004 00:44:44	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	12109	No
GOM_TRA_1PNPDE20040624_004628_000000412028_00031_12109_0013.N1	24-JUN-2004 00:46:28	Bright	40.500	98	13Zet Oph	2.5710	30000.	81	12109	No
GOM_TRA_1PNPDE20040624_004837_000000392028_00031_12109_0014.N1	24-JUN-2004 00:48:37	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12109	No
GOM_TRA_1PNPDE20040624_005044_000000412028_00031_12109_0015.N1	24-JUN-2004 00:50:44	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	12109	No
GOM_TRA_1PNPDE20040624_005308_000000422028_00031_12109_0016.N1	24-JUN-2004 00:53:08	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	12109	No
GOM_TRA_1PNPDE20040624_005532_000000382028_00031_12109_0017.N1	24-JUN-2004 00:55:32	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	12109	No
GOM_TRA_1PNPDE20040624_005726_000000372028_00031_12109_0018.N1	24-JUN-2004 00:57:26	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	12109	No
GOM_TRA_1PNPDE20040624_010243_000000452028_00031_12109_0019.N1	24-JUN-2004 01:02:43	Bright	45.000	5	3Alp Lyr	0.033000	11000.	90	12109	No
GOM_TRA_1PNPDE20040624_010446_000000372028_00031_12109_0020.N1	24-JUN-2004 01:04:46	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	12109	No
GOM_TRA_1PNPDE20040624_010650_000000392028_00031_12109_0021.N1	24-JUN-2004 01:06:50	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	12109	No
GOM_TRA_1PNPDE20040624_014357_000000392028_00031_12109_0000.N1	24-JUN-2004 01:43:57	Dark	38.500	165	34Gam Eri	2.9500	3200.0	77	12109	No
GOM_TRA_1PNPDE20040624_015249_000000682028_00031_12109_0001.N1	24-JUN-2004 01:52:49	Dark	67.500	52	16Bet Cet	2.0370	4500.0	135	12109	No
GOM_TRA_1PNPDE20040624_015806_000000452028_00032_12110_0002.N1	24-JUN-2004 01:58:06	Dark	45.000	9	Alp Eri	0.45300	24000.	90	12110	No
GOM_TRA_1PNPDE20040624_020306_000000412028_00032_12110_0003.N1	24-JUN-2004 02:03:06	Dark	41.000	135	Bet Hyi	2.8200	5800.0	82	12110	No
GOM_TRA_1PNPDE20040624_020447_000000562028_00032_12110_0004.N1	24-JUN-2004 02:04:47	Dark	56.000	63	Bet Gru	2.1500	2800.0	112	12110	No
GOM_TRA_1PNPDE20040624_020648_000000512028_00032_12110_0005.N1	24-JUN-2004 02:06:48	Dark	51.000	31	Alp Gru	1.7340	15200.	102	12110	No
GOM_TRA_1PNPDE20040624_020949_000000492028_00032_12110_0006.N1	24-JUN-2004 02:09:49	Twilight	48.500	45	Alp Pav	1.9400	26000.	97	12110	No
GOM_TRA_1PNPDE20040624_021408_000000442028_00032_12110_0007.N1	24-JUN-2004 02:14:08	Bright	44.000	141	Bet Ara	2.8400	4600.0	88	12110	No
GOM_TRA_1PNPDE20040624_021535_000000412028_00032_12110_0008.N1	24-JUN-2004 02:15:35	Bright	40.500	147	Alp Ara	2.8770	26000.	81	12110	No
GOM_TRA_1PNPDE20040624_021722_000000482028_00032_12110_0009.N1	24-JUN-2004 02:17:22	Bright	48.000	40	The Sco	1.8590	7100.0	96	12110	No
GOM_TRA_1PNPDE20040624_021900_000000462028_00032_12110_0010.N1	24-JUN-2004 02:19:00	Bright	45.500	38	20Eps Sgr	1.8360	11000.	91	12110	No
GOM_TRA_1PNPDE20040624_022024_000000502028_00032_12110_0011.N1	24-JUN-2004 02:20:24	Bright	50.000	116	19Del Sgr	2.7000	4100.0	100	12110	No
GOM_TRA_1PNPDE20040624_022234_000000512028_00032_12110_0012.N1	24-JUN-2004 02:22:34	Bright	50.500	155	41Pi Sgr	2.9000	6600.0	101	12110	No
GOM_TRA_1PNPDE20040624_022520_000000422028_00032_12110_0013.N1	24-JUN-2004 02:25:20	Bright	42.000	86	35Eta Oph	2.4300	10200.	84	12110	No
GOM_TRA_1PNPDE20040624_022704_000000412028_00032_12110_0014.N1	24-JUN-2004 02:27:04	Bright	40.500	98	13Zet Oph	2.5710	30000.	81	12110	No
GOM_TRA_1PNPDE20040624_022913_000000382028_00032_12110_0015.N1	24-JUN-2004 02:29:13	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	12110	No
GOM_TRA_1PNPDE20040624_023120_000000422028_00032_12110_0016.N1	24-JUN-2004 02:31:20	Bright	41.500	126	60Bet Oph	2.7700	4250.0	83	12110	No
GOM_TRA_1PNPDE20040624_023343_000000422028_00032_12110_0017.N1	24-JUN-2004 02:33:43	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	12110	No
GOM_TRA_1PNPDE20040624_030204_000000462028_00032_12110_0000.N1	24-JUN-2004 03:02:04	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	12110	No
GOM_TRA_1PNPDE20040624_030338_000000482028_00032_12110_0001.N1	24-JUN-2004 03:03:38	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	12110	No
GOM_TRA_1PNPDE20040624_030559_000000372028_00032_12110_0002.N1	24-JUN-2004 03:05:59	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	12110	No
GOM_TRA_1PNPDE20040624_030923_000000472028_00032_12110_0003.N1	24-JUN-2004 03:09:23	Twilight	46.500	73	57Gam1And	2.2600	13100.	93	12110	No
GOM_TRA_1PNPDE20040624_031151_000000662028_00032_12110_0004.N1	24-JUN-2004 03:11:51	Twilight	66.000	53	43Bet And	2.0480	3300.0	132	12110	No
GOM_TRA_1PNPDE20040624_031546_000000542028_00032_12110_0005.N1	24-JUN-2004 03:15:46	Twilight	54.000	50	13Alp Ari	2.0070	4250.0	108	12110	No
GOM_TRA_1PNPDE20040624_032035_000000432028_00032_12110_0006.N1	24-JUN-2004 03:20:35	Dark	42.500	94	92Alp Cet	2.5260	3100.0	85	12110	No
GOM_TRA_1PNPDE20040624_032433_000000382028_00032_12110_0007.N1	24-JUN-2004 03:24:33	Dark	37.500	165	34Gam Eri	2.9500	3200.0	75	12110	No
GOM_TRA_1PNPDE20040624_033326_000000632028_00032_12110_0008.N1	24-JUN-2004 03:33:26	Dark	62.500	52	16Bet Cet	2.0370	4500.0	125	12110	No

GOM_TRA_1PNPDE20040624_033841_000000502028_00033_12111_0009.N1	24-JUN-2004 03:38:41	Dark	50.000	9	Alp Eri	0.45300	24000.	100	12111	No

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



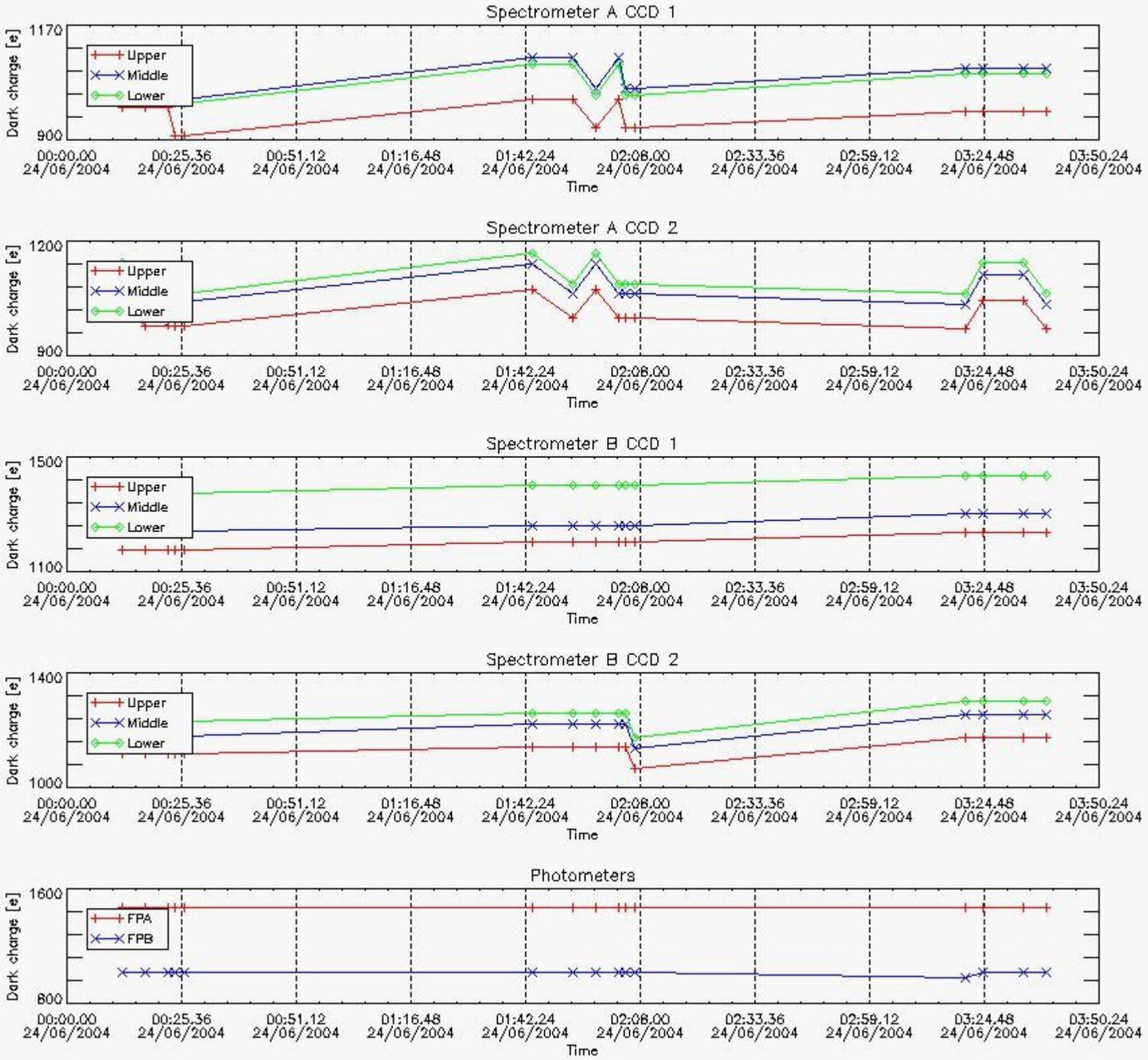


4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted 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



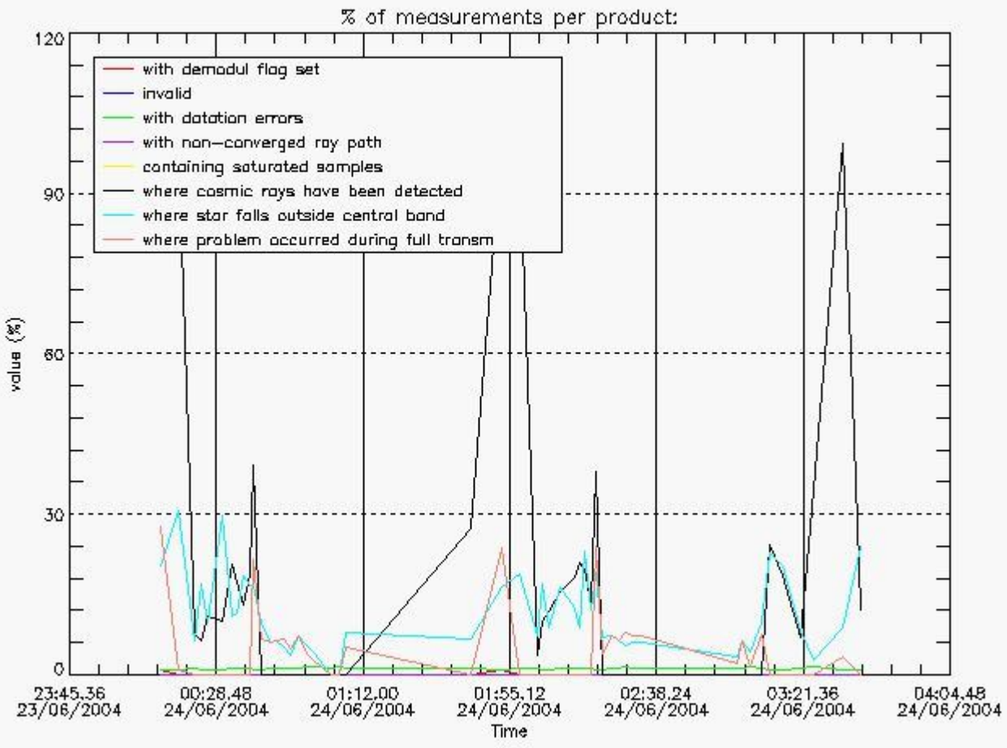
5. Demodulation flag and quality information monitoring

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.

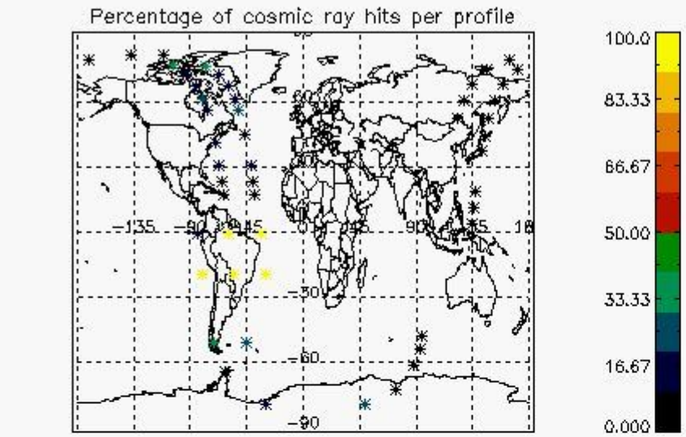
5.1 Percentage of products during reporting period with:

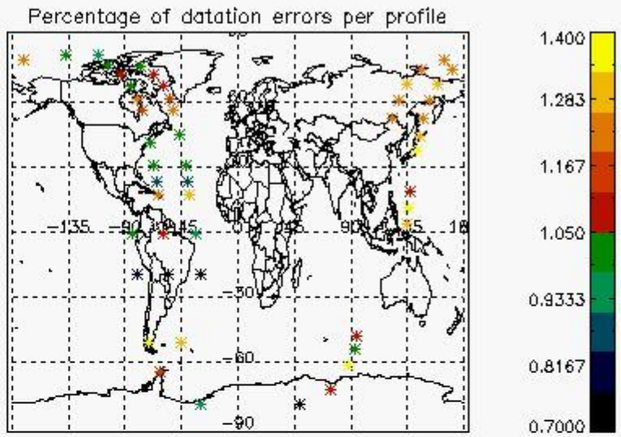
At least one measurement with demodulation flag set:	12.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

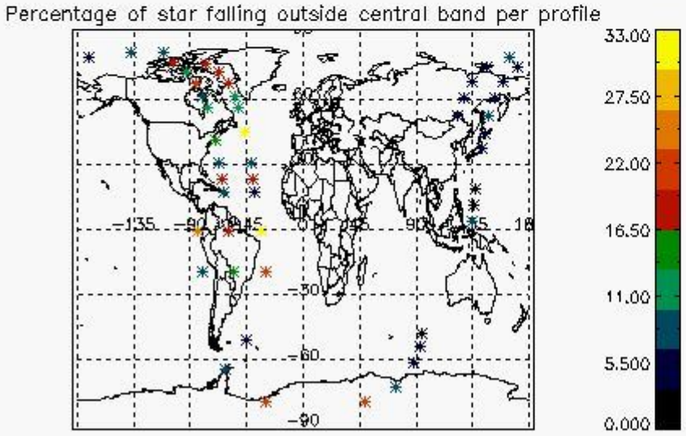
5.2 Plot quality information per product (time dependant)

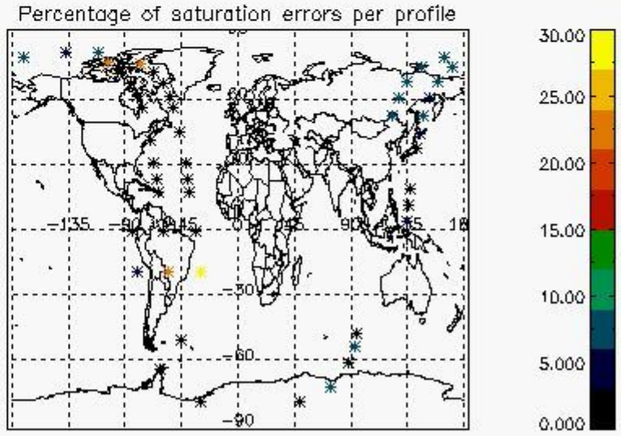


5.3 Plot quality information per product (world map)









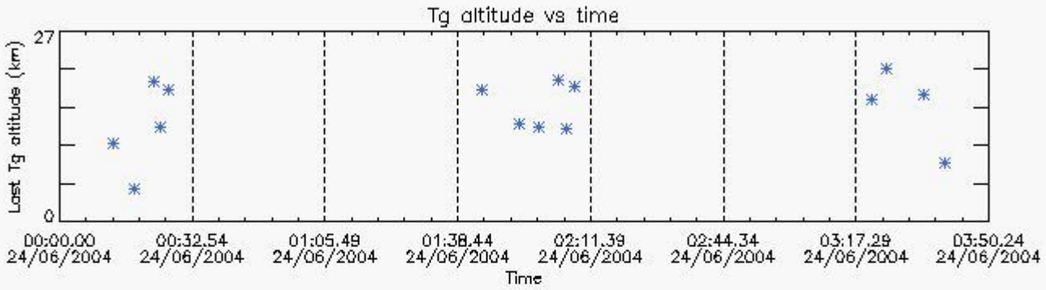
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

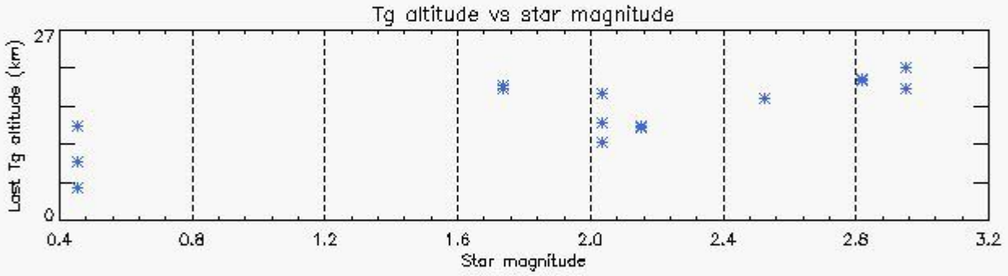
6.1 Statistics on tangent altitude lost:

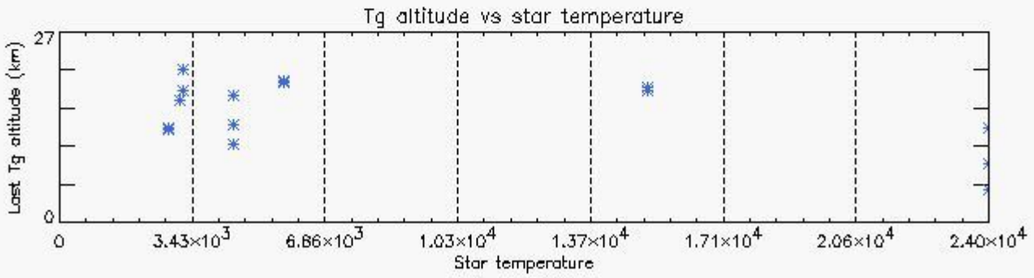
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.444	19.053	11.755
St. deviation:	4.8440	4.2638	4.4004
Maximum:	21.750	27.576	17.713
Minimum:	4.6241	9.9712	5.8076
Number of data:	15.000	30.000	5.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

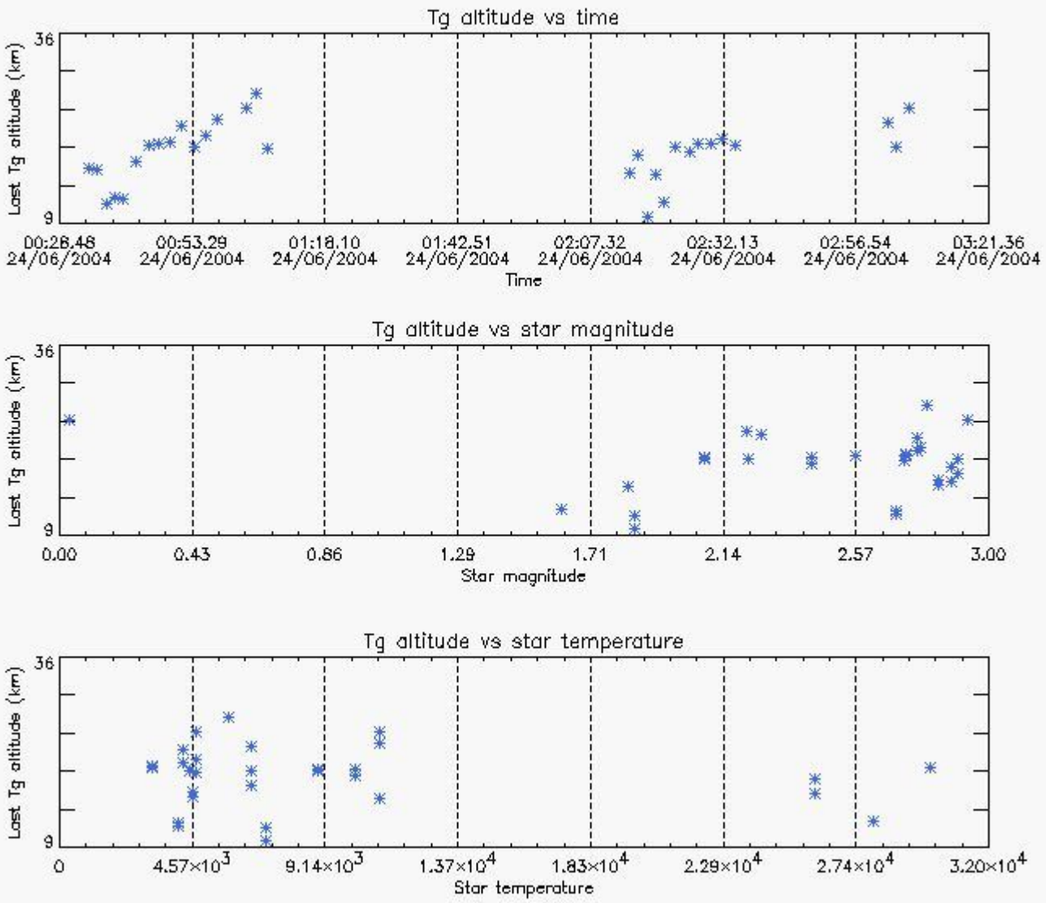






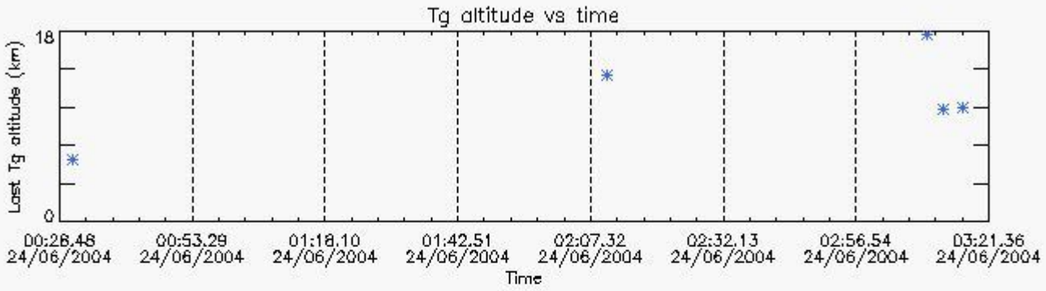
6.3 Plot for BRIGHT limb products

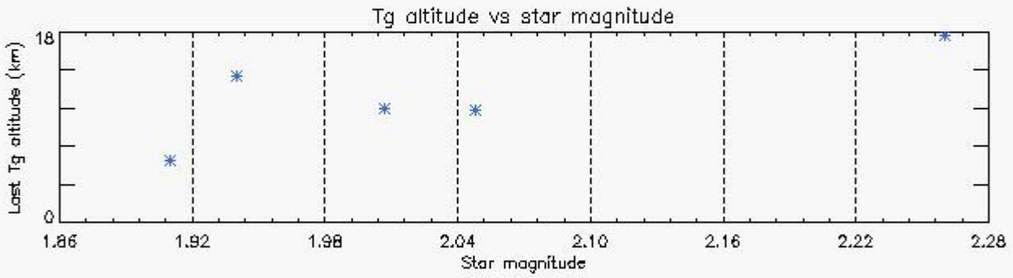
Tangent altitude at which the star is lost

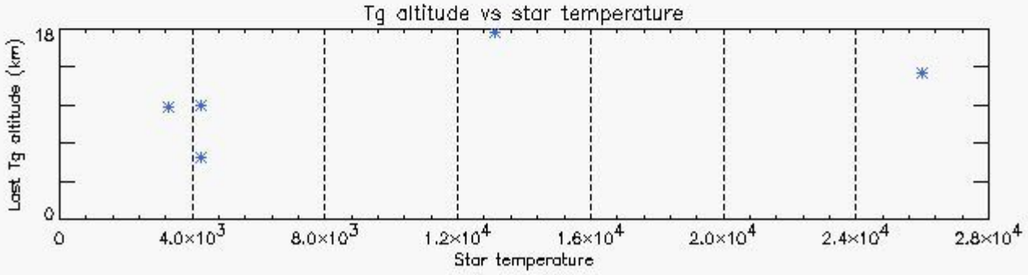


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



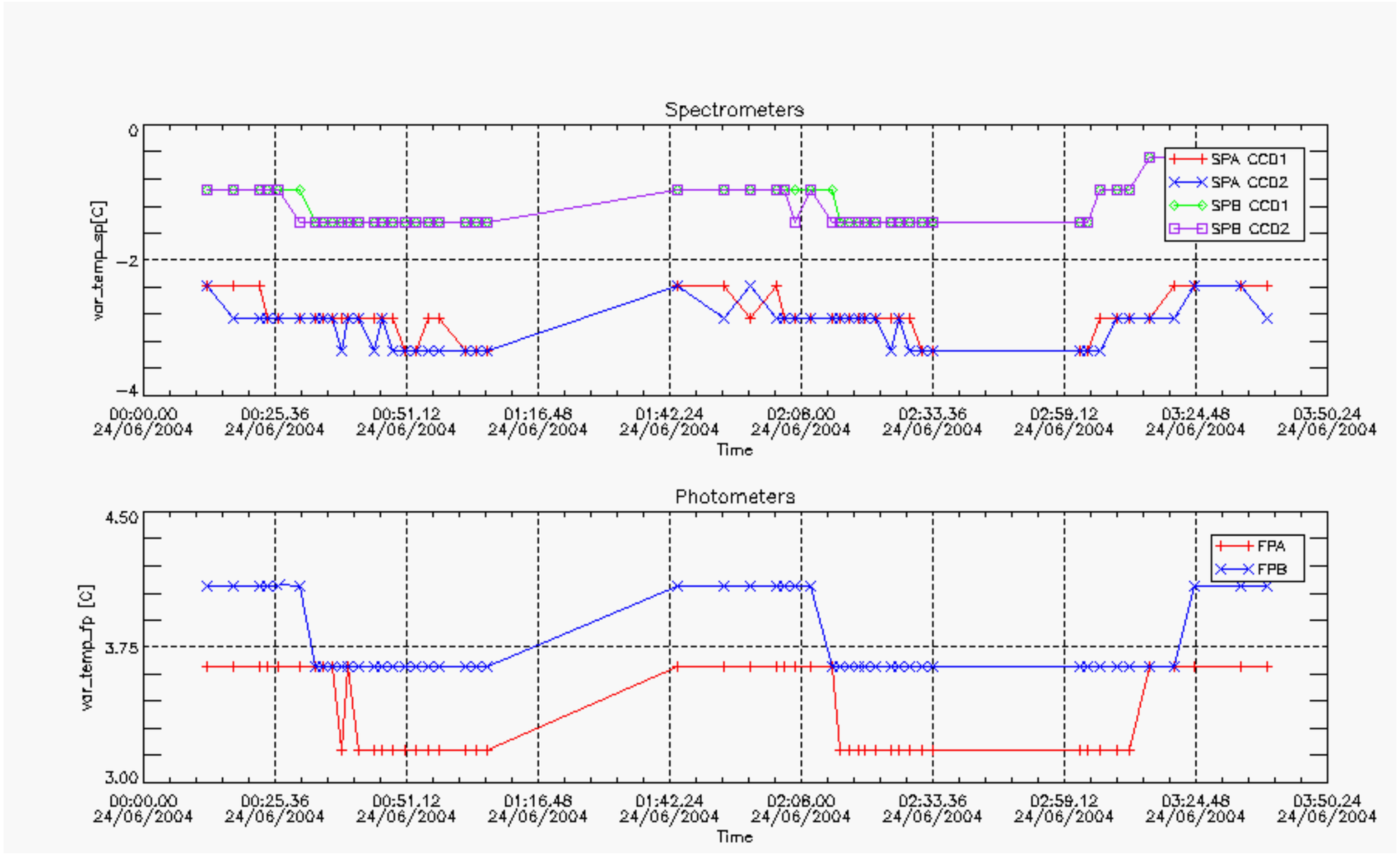


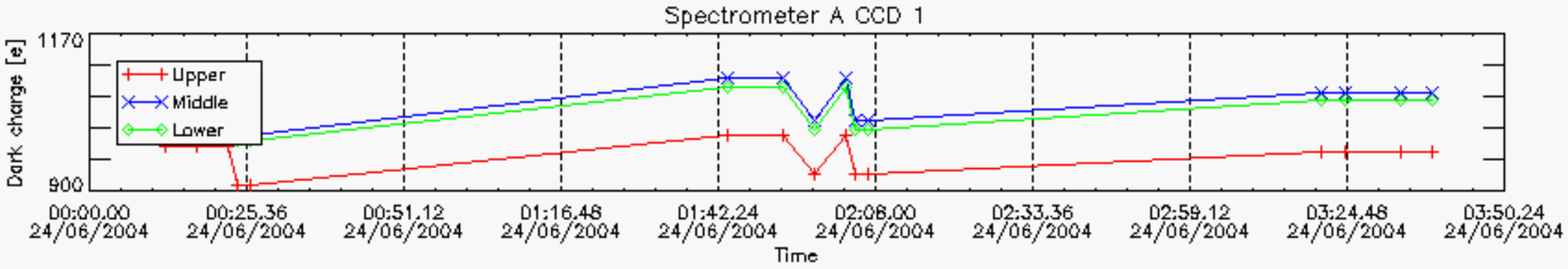


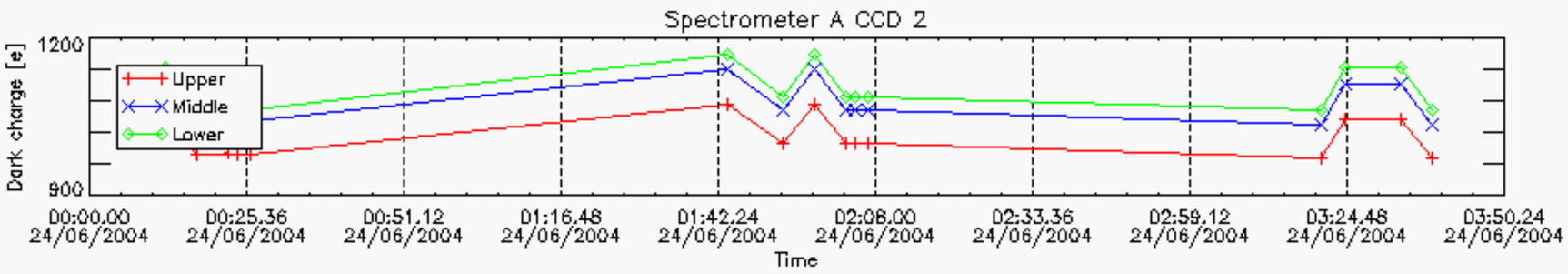
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1460.9	1447.8	1461.7	1447.0
St. deviation:	3.4603	4.6916	6.7657	7.8141
Maximum:	1502.0	1520.0	1500.0	1491.0
Minimum:	1454.0	1429.0	1428.0	1422.0
Number of data:	20050.	20050.	35800.	35800.


Spectrometers
var_temp_sp[C]
0
−2
−4
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00 24/06/2004
00:25.36 24/06/2004
00:51.12 24/06/2004
01:16.48 24/06/2004
01:42.24 24/06/2004
02:08.00 24/06/2004
02:33.36 24/06/2004
02:59.12 24/06/2004
03:24.48 24/06/2004
03:50.24 24/06/2004
Time
Photometers
var_temp_fp [C]
4.50
3.75
3.00
FPA
FPB
00:00.00 24/06/2004
00:25.36 24/06/2004
00:51.12 24/06/2004
01:16.48 24/06/2004
01:42.24 24/06/2004
02:08.00 24/06/2004
02:33.36 24/06/2004
02:59.12 24/06/2004
03:24.48 24/06/2004
03:50.24 24/06/2004
Time


Spectrometer A CCD 1
Dark charge [e]
1170
900
Upper
Middle
Lower
00:00.00 24/06/2004
00:25.36 24/06/2004
00:51.12 24/06/2004
01:16.48 24/06/2004
01:42.24 24/06/2004
02:08.00 24/06/2004
02:33.36 24/06/2004
02:59.12 24/06/2004
03:24.48 24/06/2004
03:50.24 24/06/2004
Time


Spectrometer A CCD 2
Dark charge [e]
1200
900
Upper
Middle
Lower
00:00.00 24/06/2004
00:25.36 24/06/2004
00:51.12 24/06/2004
01:16.48 24/06/2004
01:42.24 24/06/2004
02:08.00 24/06/2004
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02:59.12 24/06/2004
03:24.48 24/06/2004
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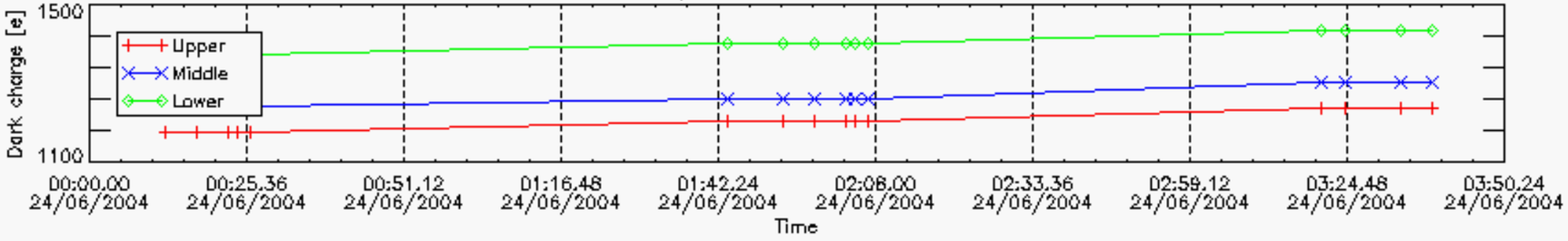
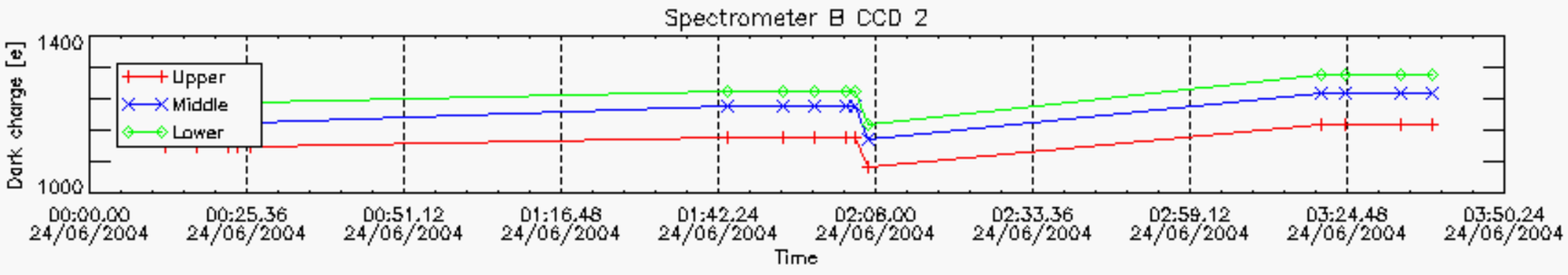
Time


Spectrometer B CCD 1
Dark charge [e]
1500
1100
Upper
Middle
Lower
00:00.00 24/06/2004
00:25.36 24/06/2004
00:51.12 24/06/2004
01:16.48 24/06/2004
01:42.24 24/06/2004
02:08.00 24/06/2004
02:33.36 24/06/2004
02:59.12 24/06/2004
03:24.48 24/06/2004
03:50.24 24/06/2004
Time


Spectrometer B CCD 2
Dark charge [e]
1400
1000
Upper
Middle
Lower
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00:25.36 24/06/2004
00:51.12 24/06/2004
01:16.48 24/06/2004
01:42.24 24/06/2004
02:08.00 24/06/2004
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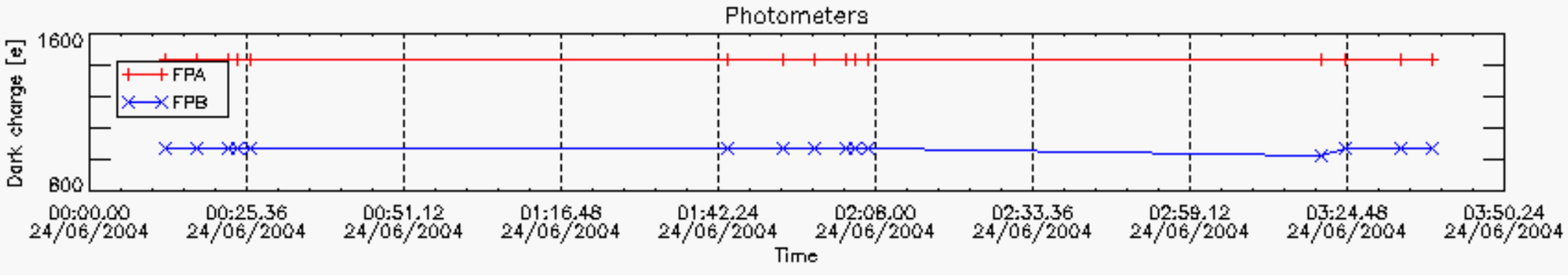
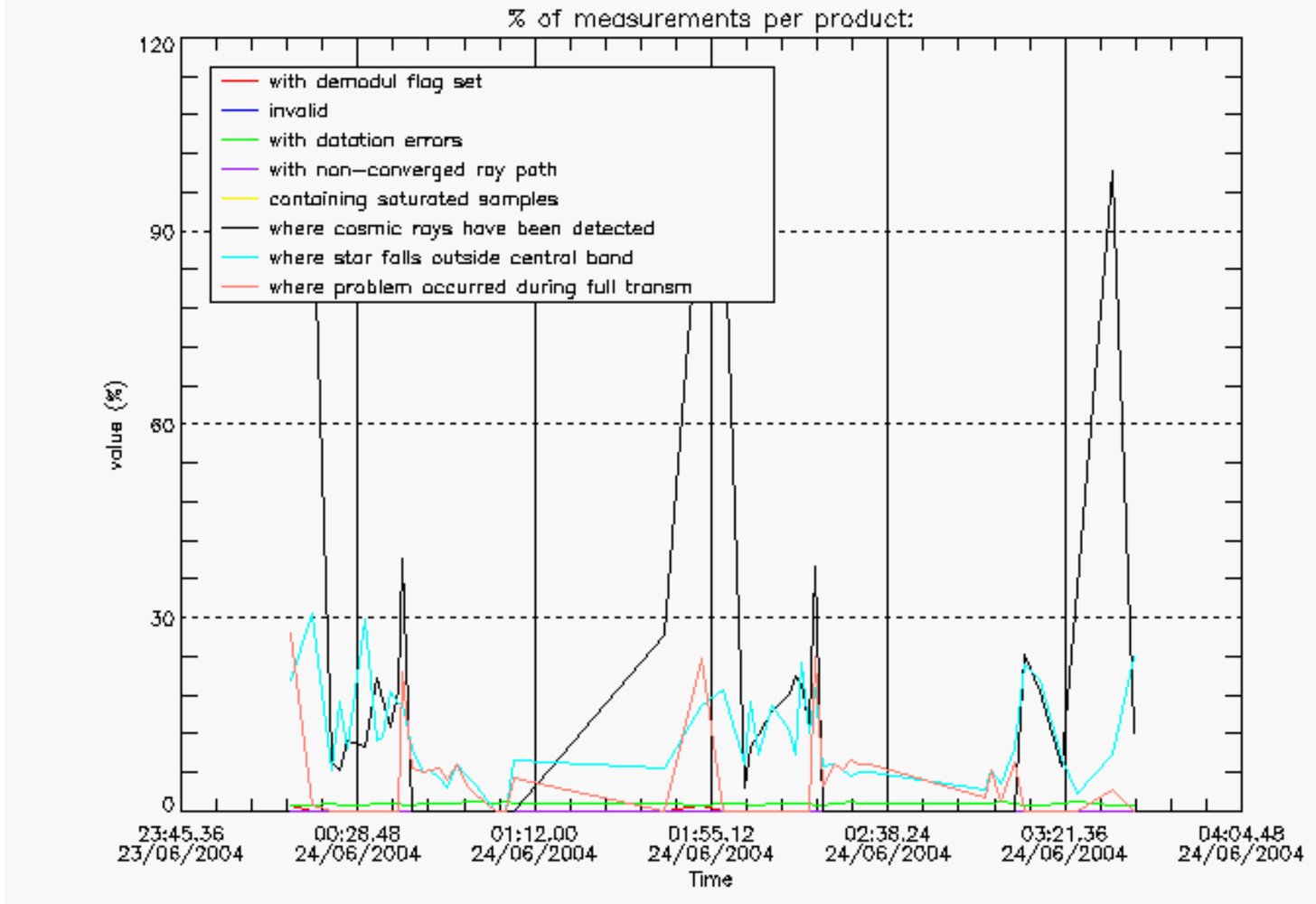
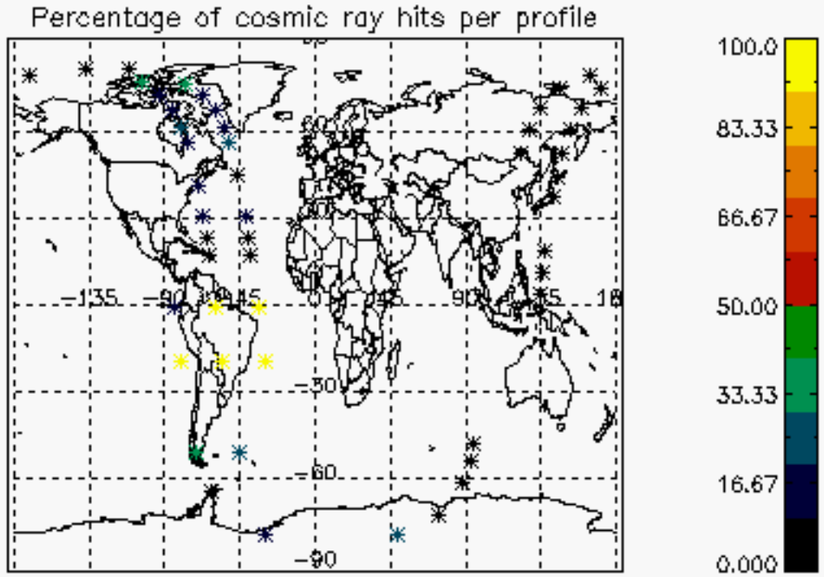
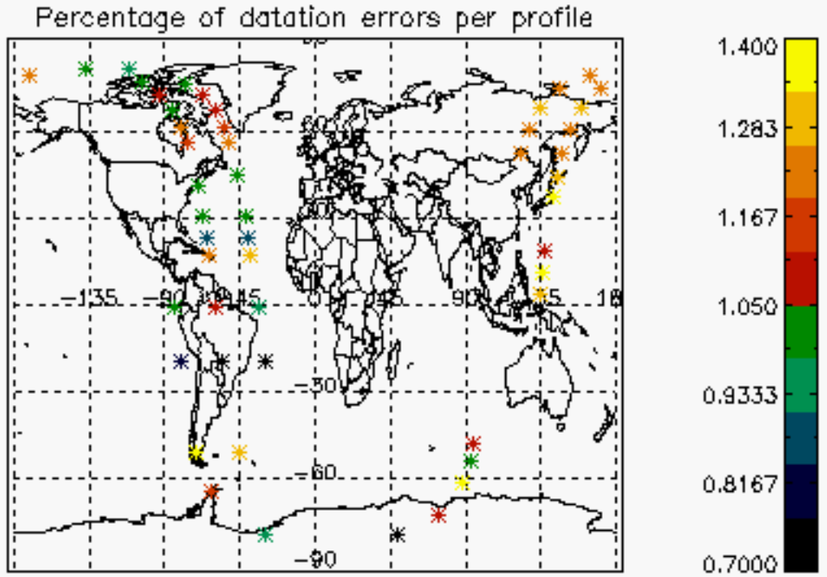
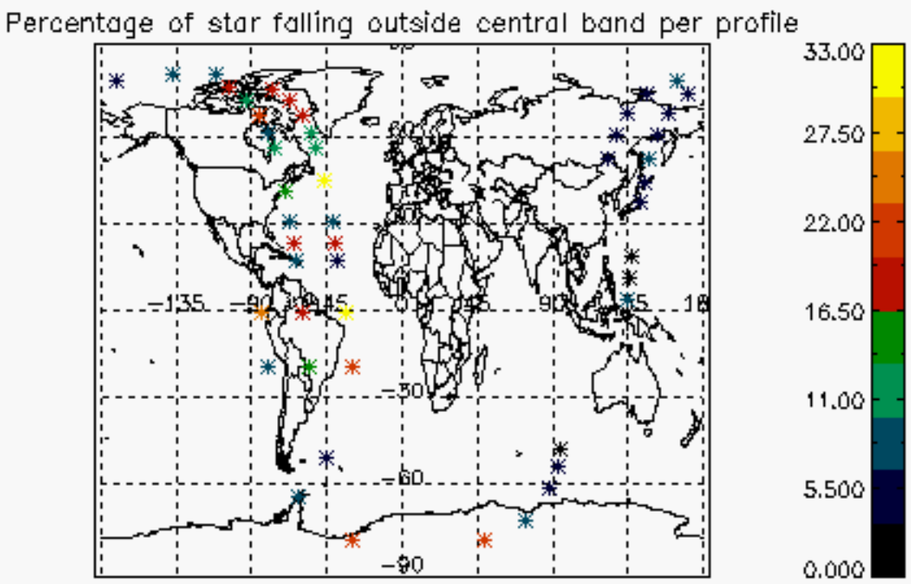
02:59.12 24/06/2004
03:24.48 24/06/2004
03:50.24 24/06/2004
Time

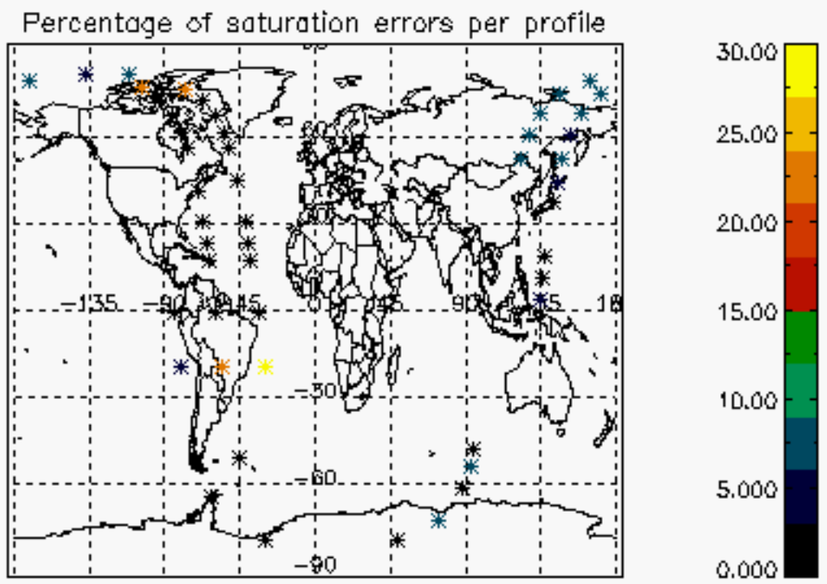

Photometers
Dark charge [e]
1600
800
FPA
FPB
00:00.00 24/06/2004
00:25.36 24/06/2004
00:51.12 24/06/2004
01:16.48 24/06/2004
01:42.24 24/06/2004
02:08.00 24/06/2004
02:33.36 24/06/2004
02:59.12 24/06/2004
03:24.48 24/06/2004
03:50.24 24/06/2004
Time


% of measurements per product:
with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
value (%)
120
90
60
30
0
23:45.36
23/06/2004
00:28.48
24/06/2004
01:12.00
24/06/2004
01:55.12
24/06/2004
02:38.24
24/06/2004
03:21.36
24/06/2004
04:04.48
24/06/2004
Time

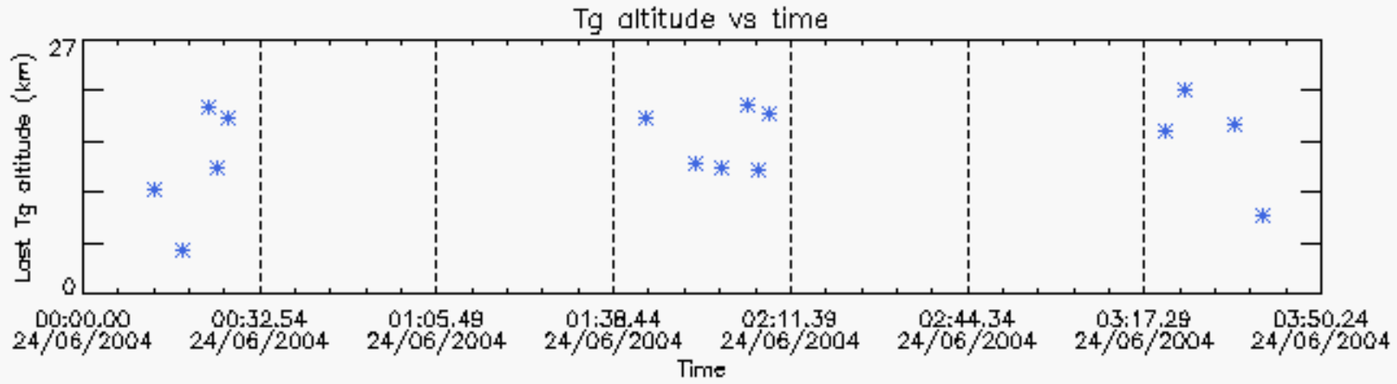

Percentage of cosmic ray hits per profile
100.0
83.33
66.67
50.00
33.33
16.67
0.000
-135
-90
-45
0
45
90
135
180
-30
-60
-90

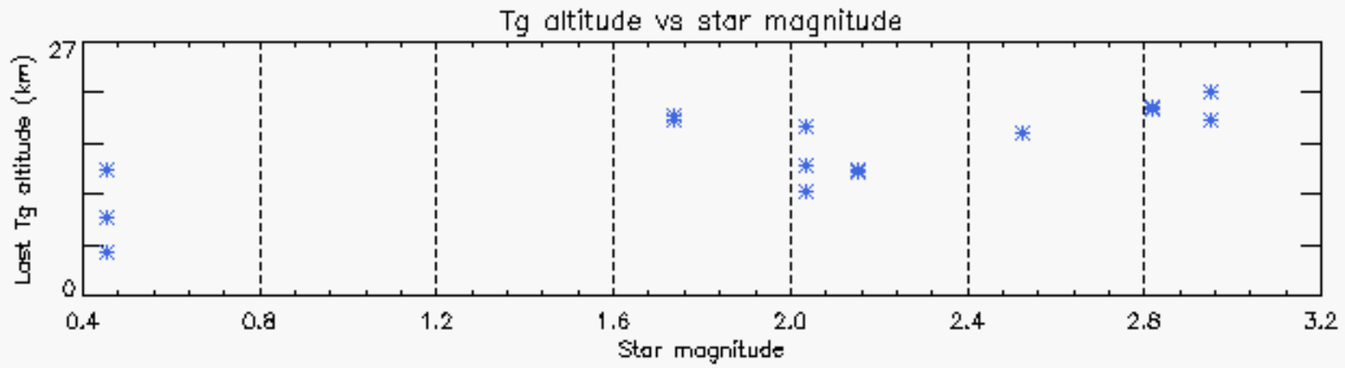

Percentage of datation errors per profile
1.400
1.283
1.167
1.050
0.9333
0.8167
0.7000
-135
-90
-45
0
45
90
135
180
-30
-60
-90

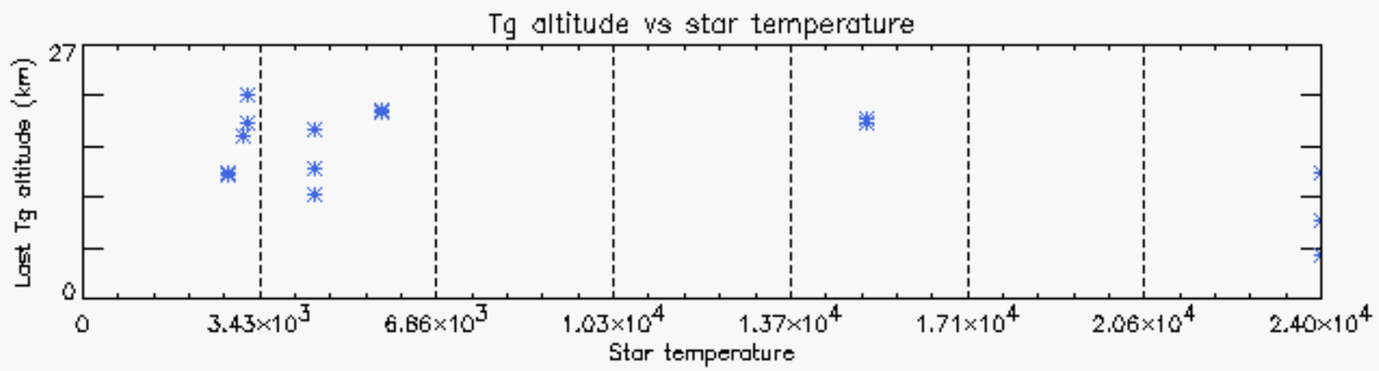

Percentage of star falling outside central band per profile
33.00
27.50
22.00
16.50
11.00
5.500
0.000
-135
-90
-45
0
45
90
135
180
-30
-60
-90


Percentage of saturation errors per profile
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-135
-90
-45
0
45
90
135
180
-30
-60
-90

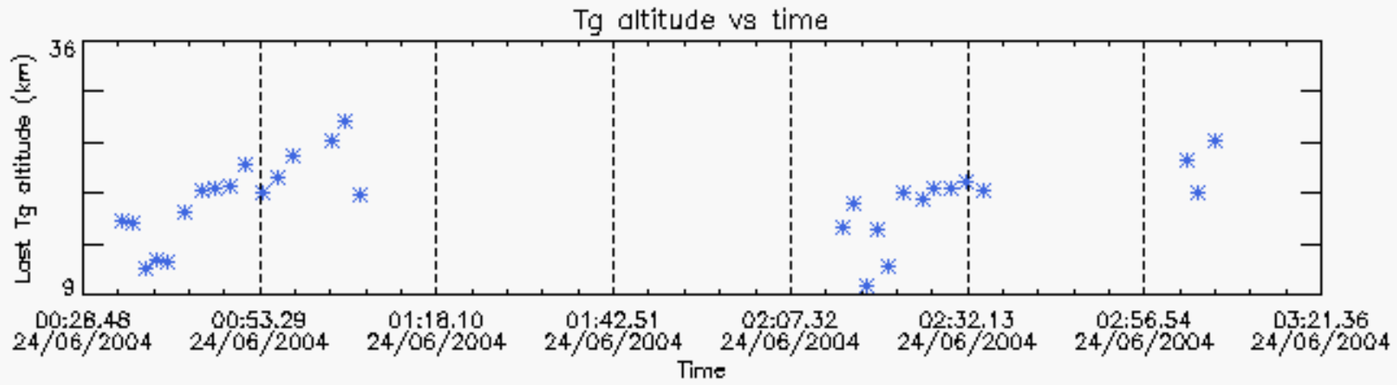
Tangent altitude at which the star is lost

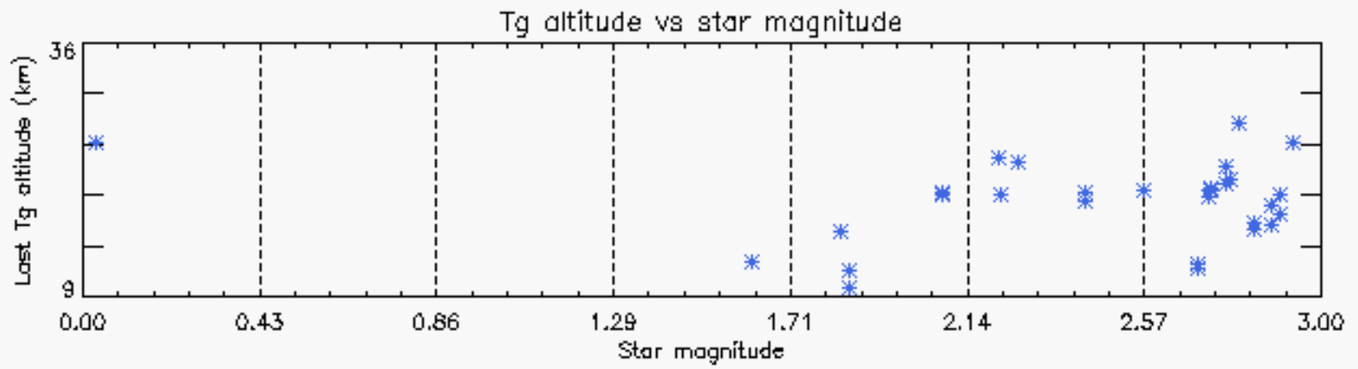


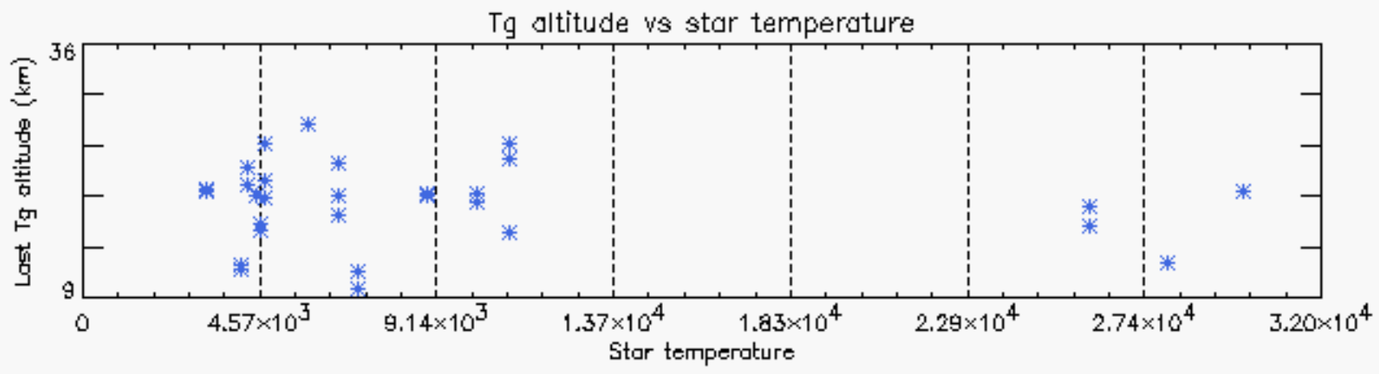




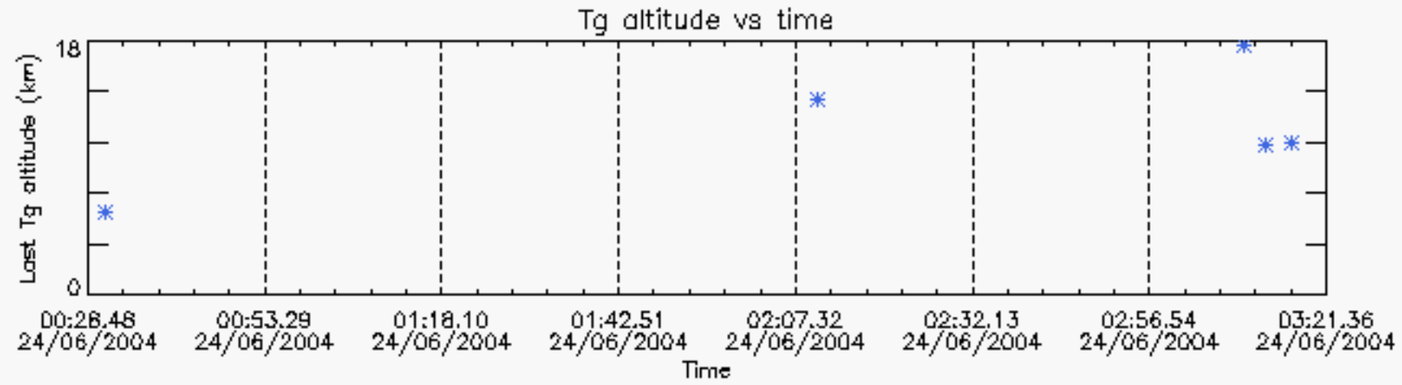
Tangent altitude at which the star is lost

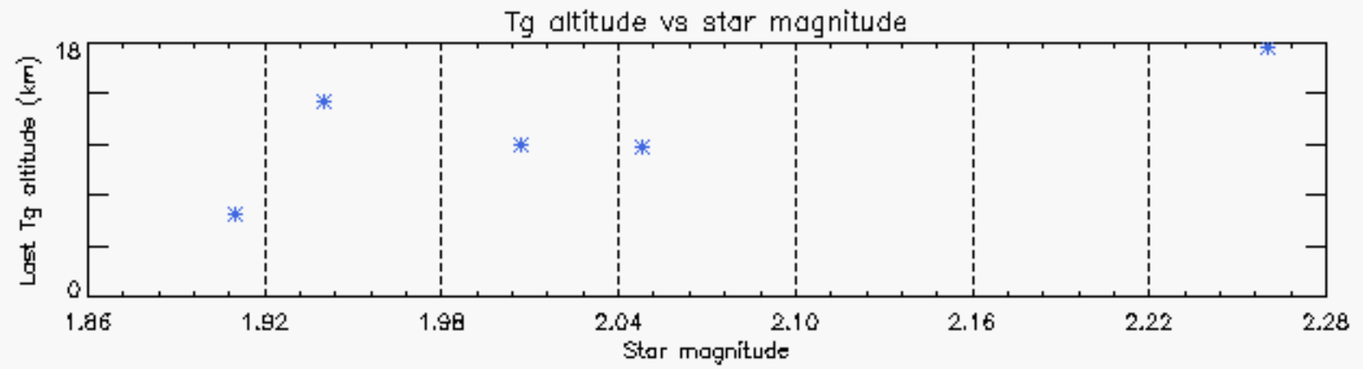


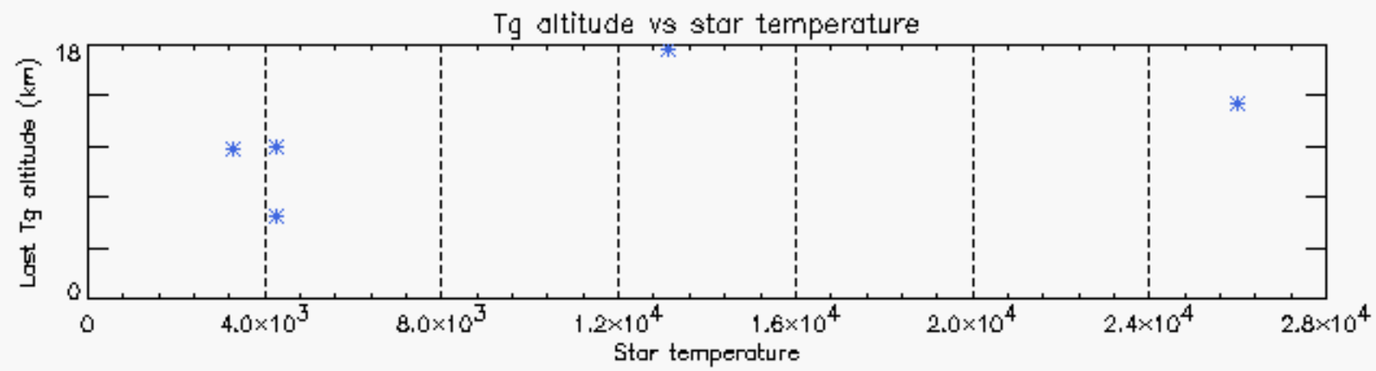




Tangent altitude at which the star is lost







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  16;-1974.6; 17-JUN-2004 13:29:40; Bright;  35.5;  160; 23Gam Per  ; 2.93;  4700;occ;  71;   0;12016
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  19;-1111.6; 20-JUN-2004 13:49:48; Dark ; 46.5;   94; 92Alp Cet ; 2.53; 3100;occ; 93;   0;12059
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  22; 2950.8; 23-JUN-2004 01:38:27; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76;   0;12095
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  26; 2125.2; 26-JUN-2004 04:51:38; Bright;  41.0;   59; 55Alp Oph  ; 2.08;  8900;occ;  82;   0;12140
  27; 2275.1; 26-JUN-2004 04:54:08; Bright;  39.5;  127; 27Bet Her  ; 2.78;  4700;occ;  79;   0;12140
  28; 2395.7; 26-JUN-2004 04:56:09; Bright;  38.5;   67;  5Alp CrB  ; 2.22; 11000;occ;  77;   0;12140
  29; 2684.5; 26-JUN-2004 05:00:57; Bright;  49.0;    5;  3Alp Lyr  ; 0.03; 11000;occ;  98;   0;12140
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   9;-3216.6; 26-JUN-2004 08:24:24; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81;   0;12142
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  12;-2591.6; 26-JUN-2004 08:34:49; Bright; 36.0;   49; 1Alp UMi ; 1.99; 6300;occ; 72;   0;12142
  13;-2221.7; 26-JUN-2004 08:40:59; Bright; 50.0;   74; 11Bet Cas ; 2.27; 6600;occ; 100;   0;12142
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 33; 4954.1; 26-JUN-2004 22:24:46; Dark ; 48.5;   94; 92Alp Cet ; 2.53; 3100;occ; 97;   0;12150
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  31; 2669.4; 28-JUN-2004 03:57:28; Bright; 47.5;   5; 3Alp Lyr ; 0.03; 11000;occ; 95;   0;12168
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  33; 2949.5; 28-JUN-2004 04:02:08; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76;   0;12168
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  15; 1638.8; 30-JUN-2004 00:56:27; Bright; 39.0;   86; 35Eta Oph ; 2.43; 10200;occ; 78;   0;12195
  16; 1744.1; 30-JUN-2004 00:58:12; Bright; 39.0;   98; 13Zet Oph ; 2.57; 30000;occ; 78;   0;12195
  17; 1874.4; 30-JUN-2004 01:00:23; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76;   0;12195
  18; 1980.0; 30-JUN-2004 01:02:08; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78;   0;12195
  19; 2120.3; 30-JUN-2004 01:04:28; Bright; 40.0;   59; 55Alp Oph ; 2.08; 8900;occ; 80;   0;12195
  20; 2280.4; 30-JUN-2004 01:07:09; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77;   0;12195
  21; 2445.7; 30-JUN-2004 01:09:54; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76;   0;12195
  22; 2654.8; 30-JUN-2004 01:13:23; Bright; 41.5;   5; 3Alp Lyr ; 0.03; 11000;occ; 83;   0;12195

  23; 2809.0; 30-JUN-2004 01:15:57; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77;   0;12195
  24; 2950.7; 30-JUN-2004 01:18:19; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75;   0;12195
  25; 3189.1; 30-JUN-2004 01:22:17; Bright; 39.0;   60; 7Bet UMi ; 2.08; 3950;occ; 78;   0;12195
  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
  32; 4418.8; 30-JUN-2004 01:42:47; Dark ; 69.0;   53; 43Bet And ; 2.05; 3300;occ; 138;   0;12195
  33; 4675.0; 30-JUN-2004 01:47:03; Dark ; 58.5;   50; 13Alp Ari ; 2.01; 4250;occ; 117;   0;12195
  34; 4972.4; 30-JUN-2004 01:52:01; Dark ; 55.0;   94; 92Alp Cet ; 2.53; 3100;occ; 110;   0;12195
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   1; -838.3; 30-JUN-2004 01:55:46; Dark ; 45.5; 165; 34Gam Eri ; 2.95; 3200;occ; 91;   0;12195
   2; -497.5; 30-JUN-2004 02:01:27; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;12195
   3; -189.3; 30-JUN-2004 02:06:35; Dark ; 77.5;   52; 16Bet Cet ; 2.04; 4500;occ; 155;   0;12195
   4;   30.4; 30-JUN-2004 02:10:14; Dark ; 42.5;   9;   Alp Eri ; 0.45; 24000;occ; 85;   0;12196
   5; 311.4; 30-JUN-2004 02:14:55; Dark ; 40.0; 135;   Bet Hyi ; 2.82; 5800;occ; 80;   0;12196
   6; 476.5; 30-JUN-2004 02:17:41; Dark ; 66.0;   63;   Bet Gru ; 2.15; 2800;occ; 132;   0;12196
   7; 593.5; 30-JUN-2004 02:19:38; Dark ; 50.0;   31;   Alp Gru ; 1.73; 15200;occ; 100;   0;12196
   8; 738.6; 30-JUN-2004 02:22:03; Dark ; 43.5;   45;   Alp Pav ; 1.94; 26000;occ; 87;   0;12196
   9; 972.0; 30-JUN-2004 02:25:56; Dark ; 42.5; 141;   Bet Ara ; 2.84; 4600;occ; 85;   0;12196
  10; 1056.9; 30-JUN-2004 02:27:21; Dark ; 43.5; 147;   Alp Ara ; 2.88; 26000;occ; 87;   0;12196
  11; 1167.3; 30-JUN-2004 02:29:11; Dark ; 42.0;   40;   The Sco ; 1.86; 7100;occ; 84;   0;12196
  12; 1266.7; 30-JUN-2004 02:30:51; Dark ; 45.5;   25; 35Lam Sco ; 1.62; 28000;occ; 91;   0;12196
  13; 1351.8; 30-JUN-2004 02:32:16; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110;   0;12196
  14; 1477.0; 30-JUN-2004 02:34:21; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94;   0;12196
  15; 1637.2; 30-JUN-2004 02:37:01; Bright; 41.5;   86; 35Eta Oph ; 2.43; 10200;occ; 83;   0;12196
  16; 1744.3; 30-JUN-2004 02:38:48; Bright; 39.0;   98; 13Zet Oph ; 2.57; 30000;occ; 78;   0;12196
  17; 1874.0; 30-JUN-2004 02:40:58; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79;   0;12196
  18; 1980.4; 30-JUN-2004 02:42:44; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77;   0;12196
  19; 2120.3; 30-JUN-2004 02:45:04; Bright; 40.0;   59; 55Alp Oph ; 2.08; 8900;occ; 80;   0;12196
  20; 2280.6; 30-JUN-2004 02:47:45; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75;   0;12196
  21; 2445.5; 30-JUN-2004 02:50:30; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75;   0;12196
  22; 2654.0; 30-JUN-2004 02:53:58; Bright; 47.5;   5; 3Alp Lyr ; 0.03; 11000;occ; 95;   0;12196
  23; 2808.6; 30-JUN-2004 02:56:33; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74;   0;12196
  24; 2950.4; 30-JUN-2004 02:58:54; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76;   0;12196
  25; 3188.7; 30-JUN-2004 03:02:53; Bright; 37.5;   60; 7Bet UMi ; 2.08; 3950;occ; 75;   0;12196
  26; 3348.3; 30-JUN-2004 03:05:32; Bright; 45.5;   89; 5Alp Cep ; 2.45; 8000;occ; 91;   0;12196