GOMOS Daily Report 10-AUG-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	12AUG2004 05:01:33
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (10AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (11AUG2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	0

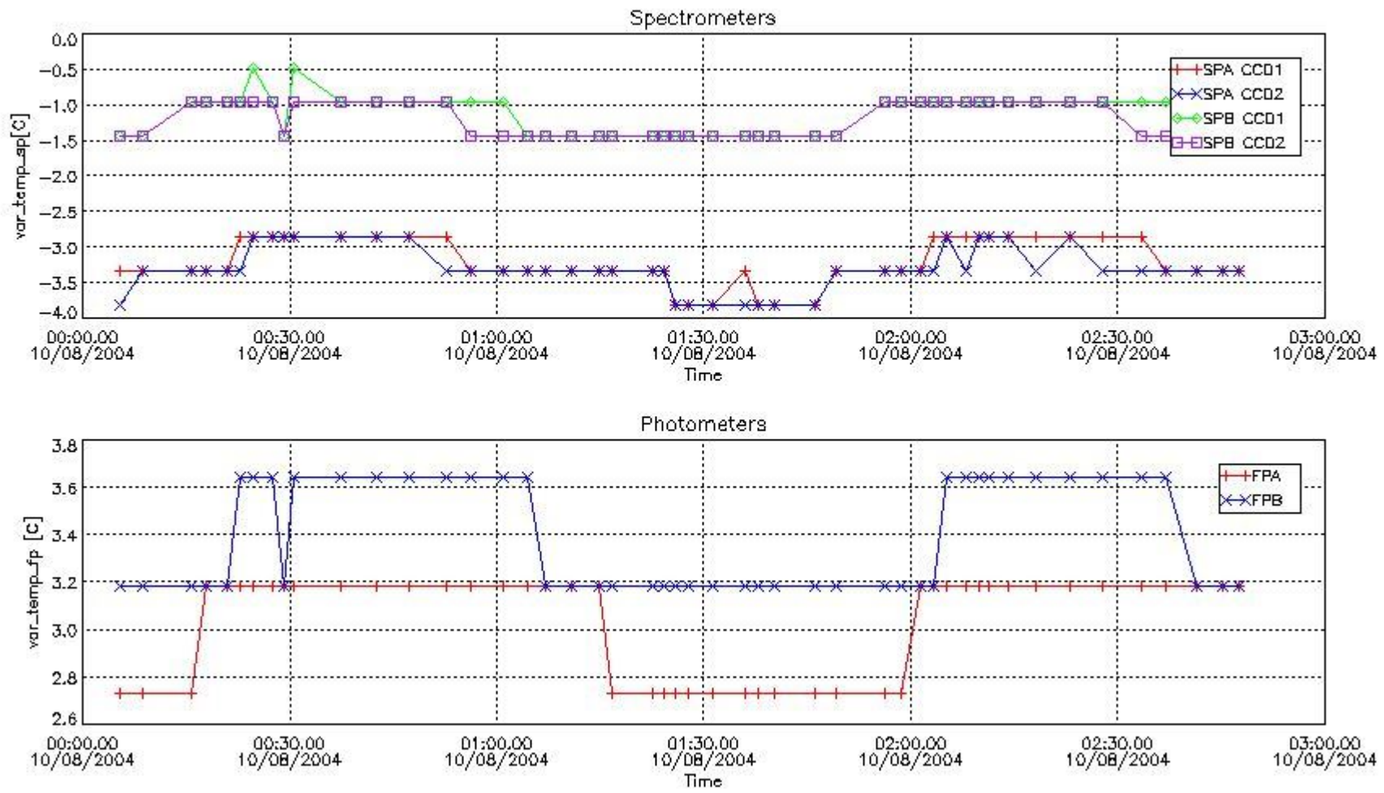
2. Summary of products arrived in PCF (Product Control Facility)

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

2.2 Summary of processed GOM_TRA_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040810_000525_000000532029_00202_12781_0022.N1	10-AUG-2004 00:05:25	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	12781	No
GOM_TRA_1PNPDE20040810_000838_000002552029_00202_12781_0023.N1	10-AUG-2004 00:08:38	Twilight	255.00	53	43Bet And	2.0480	3300.0	510	12781	No
GOM_TRA_1PNPDE20040810_001540_000000512029_00202_12781_0024.N1	10-AUG-2004 00:15:40	Twilight	51.000	28	12Bet Tau	1.6500	15200.	102	12781	No
GOM_TRA_1PNPDE20040810_001753_000000452029_00202_12781_0025.N1	10-AUG-2004 00:17:53	Twilight	45.000	176	23Zet Tau	3.0200	22000.	90	12781	No
GOM_TRA_1PNPDE20040810_002054_000000692029_00202_12781_0026.N1	10-AUG-2004 00:20:54	Twilight	68.500	13	87Alp Tau	0.86700	3800.0	137	12781	No
GOM_TRA_1PNPDE20040810_002245_000000512029_00202_12781_0027.N1	10-AUG-2004 00:22:45	Twilight	51.000	27	24Gam Ori	1.6360	26000.	102	12781	No
GOM_TRA_1PNPDE20040810_002440_000000482029_00202_12781_0028.N1	10-AUG-2004 00:24:40	Dark	48.000	30	46Eps Ori	1.6940	30000.	96	12781	No
GOM_TRA_1PNPDE20040810_002727_000000522029_00202_12781_0029.N1	10-AUG-2004 00:27:27	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	12781	No
GOM_TRA_1PNPDE20040810_002913_000000402029_00202_12781_0000.N1	10-AUG-2004 00:29:13	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	12781	No
GOM_TRA_1PNPDE20040810_003039_000000422029_00202_12781_0001.N1	10-AUG-2004 00:30:39	Dark	42.000	23	21Eps CMa	1.5020	26000.	84	12781	No
GOM_TRA_1PNPDE20040810_003728_000000522029_00202_12781_0002.N1	10-AUG-2004 00:37:28	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	12781	No
GOM_TRA_1PNPDE20040810_004232_000000542029_00203_12782_0003.N1	10-AUG-2004 00:42:32	Dark	54.000	157	The1Eri	2.9060	9300.0	108	12782	No
GOM_TRA_1PNPDE20040810_004716_000000562029_00203_12782_0004.N1	10-AUG-2004 00:47:16	Dark	55.500	9	Alp Eri	0.45300	24000.	111	12782	No
GOM_TRA_1PNPDE20040810_005244_000000672029_00203_12782_0005.N1	10-AUG-2004 00:52:44	Twilight	66.500	84	Alp Phe	2.3970	4500.0	133	12782	No
GOM_TRA_1PNPDE20040810_005620_000000472029_00203_12782_0006.N1	10-AUG-2004 00:56:20	Twilight	46.500	45	Alp Pav	1.9400	26000.	93	12782	No
GOM_TRA_1PNPDE20040810_010050_000000582029_00203_12782_0007.N1	10-AUG-2004 01:00:50	Bright	58.000	18	24Alp PsA	1.1660	9700.0	116	12782	No
GOM_TRA_1PNPDE20040810_010434_000000432029_00203_12782_0008.N1	10-AUG-2004 01:04:34	Bright	43.000	103	38Zet Sgr	2.6000	9700.0	86	12782	No
GOM_TRA_1PNPDE20040810_010700_000000482029_00203_12782_0009.N1	10-AUG-2004 01:07:00	Bright	47.500	142	49Del Cap	2.8500	8900.0	95	12782	No
GOM_TRA_1PNPDE20040810_011042_000000472029_00203_12782_0010.N1	10-AUG-2004 01:10:42	Bright	47.000	154	22Bet Aqr	2.8990	5700.0	94	12782	No
GOM_TRA_1PNPDE20040810_011455_000000402029_00203_12782_0011.N1	10-AUG-2004 01:14:55	Bright	39.500	11	53Alp Aql	0.76500	8000.0	79	12782	No
GOM_TRA_1PNPDE20040810_011637_000000392029_00203_12782_0012.N1	10-AUG-2004 01:16:37	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	12782	No
GOM_TRA_1PNPDE20040810_012239_000000432029_00203_12782_0013.N1	10-AUG-2004 01:22:39	Bright	42.500	92	53Eps Cyg	2.5000	4500.0	85	12782	No
GOM_TRA_1PNPDE20040810_012409_000000412029_00203_12782_0014.N1	10-AUG-2004 01:24:09	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	12782	No
GOM_TRA_1PNPDE20040810_012553_000000422029_00203_12782_0015.N1	10-AUG-2004 01:25:53	Bright	41.500	19	50Alp Cyg	1.2460	10500.	83	12782	No
GOM_TRA_1PNPDE20040810_012744_000000422029_00203_12782_0016.N1	10-AUG-2004 01:27:44	Bright	41.500	69	33Gam Dra	2.2310	3800.0	83	12782	No
GOM_TRA_1PNPDE20040810_013119_000000412029_00203_12782_0017.N1	10-AUG-2004 01:31:19	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	12782	No
GOM_TRA_1PNPDE20040810_013602_000000402029_00203_12782_0018.N1	10-AUG-2004 01:36:02	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	12782	No
GOM_TRA_1PNPDE20040810_013756_000000372029_00203_12782_0019.N1	10-AUG-2004 01:37:56	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	12782	No
GOM_TRA_1PNPDE20040810_014021_000000502029_00203_12782_0020.N1	10-AUG-2004 01:40:21	Bright	50.000	110	37Del Cas	2.6780	8900.0	100	12782	No
GOM_TRA_1PNPDE20040810_014601_000000512029_00203_12782_0021.N1	10-AUG-2004 01:46:01	Bright	50.500	160	23Gam Per	2.9300	4700.0	101	12782	No
GOM_TRA_1PNPDE20040810_014912_000002552029_00203_12782_0022.N1	10-AUG-2004 01:49:12	Twilight	255.00	53	43Bet And	2.0480	3300.0	510	12782	No
GOM_TRA_1PNPDE20040810_015616_000000502029_00203_12782_0023.N1	10-AUG-2004 01:56:16	Twilight	49.500	28	12Bet Tau	1.6500	15200.	99	12782	No
GOM_TRA_1PNPDE20040810_015829_000000462029_00203_12782_0024.N1	10-AUG-2004 01:58:29	Twilight	45.500	176	23Zet Tau	3.0200	22000.	91	12782	No
GOM_TRA_1PNPDE20040810_020130_000000642029_00203_12782_0025.N1	10-AUG-2004 02:01:30	Twilight	64.000	13	87Alp Tau	0.86700	3800.0	128	12782	No
GOM_TRA_1PNPDE20040810_020321_000000522029_00203_12782_0026.N1	10-AUG-2004 02:03:21	Twilight	51.500	27	24Gam Ori	1.6360	26000.	103	12782	No
GOM_TRA_1PNPDE20040810_020517_000000492029_00203_12782_0000.N1	10-AUG-2004 02:05:17	Dark	49.000	30	46Eps Ori	1.6940	30000.	98	12782	No
GOM_TRA_1PNPDE20040810_020804_000000452029_00203_12782_0001.N1	10-AUG-2004 02:08:04	Dark	44.500	1	9Alp CMa	-1.4400	11000.	89	12782	No
GOM_TRA_1PNPDE20040810_020949_000000372029_00203_12782_0002.N1	10-AUG-2004 02:09:49	Dark	36.500	179	24Omi2CMa	3.0320	24000.	73	12782	No
GOM_TRA_1PNPDE20040810_021116_000000422029_00203_12782_0003.N1	10-AUG-2004 02:11:16	Dark	41.500	23	21Eps CMa	1.5020	26000.	83	12782	No
GOM_TRA_1PNPDE20040810_021404_000000452029_00203_12782_0004.N1	10-AUG-2004 02:14:04	Dark	44.500	108	Alp Col	2.6520	15200.	89	12782	No
GOM_TRA_1PNPDE20040810_021804_000000462029_00203_12782_0005.N1	10-AUG-2004 02:18:04	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	12782	No
GOM_TRA_1PNPDE20040810_022309_000000522029_00204_12783_0006.N1	10-AUG-2004 02:23:09	Dark	52.000	157	The1Eri	2.9060	9300.0	104	12783	No
GOM_TRA_1PNPDE20040810_022752_000000482029_00204_12783_0007.N1	10-AUG-2004 02:27:52	Dark	47.500	9	Alp Eri	0.45300	24000.	95	12783	No
GOM_TRA_1PNPDE20040810_023320_000000682029_00204_12783_0008.N1	10-AUG-2004 02:33:20	Twilight	67.500	84	Alp Phe	2.3970	4500.0	135	12783	No
GOM_TRA_1PNPDE20040810_023656_000000412029_00204_12783_0009.N1	10-AUG-2004 02:36:56	Twilight	41.000	45	Alp Pav	1.9400	26000.	82	12783	No
GOM_TRA_1PNPDE20040810_024127_000000622029_00204_12783_0010.N1	10-AUG-2004 02:41:27	Bright	61.500	18	24Alp PsA	1.1660	9700.0	123	12783	No
GOM_TRA_1PNPDE20040810_024509_000000442029_00204_12783_0011.N1	10-AUG-2004 02:45:09	Bright	44.000	103	38Zet Sgr	2.6000	9700.0	88	12783	No
GOM_TRA_1PNPDE20040810_024736_000000472029_00204_12783_0012.N1	10-AUG-2004 02:47:36	Bright	47.000	142	49Del Cap	2.8500	8900.0	94	12783	No

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

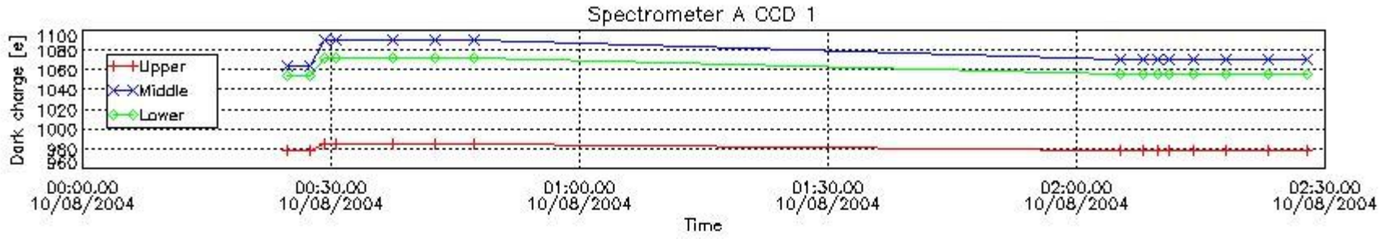


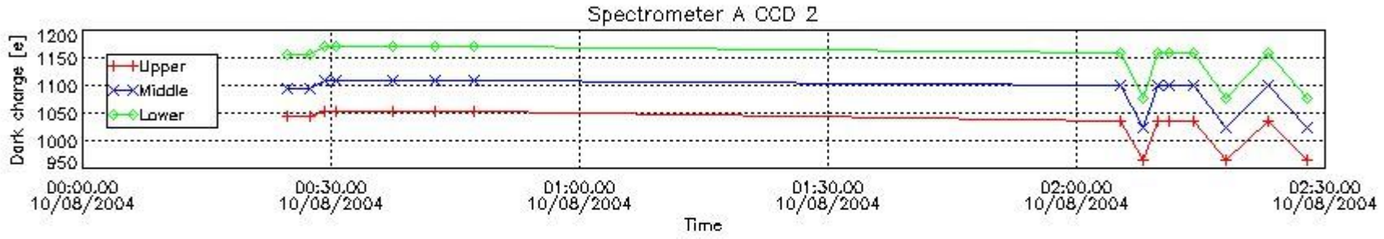
4. Overview of dark signal processing per product

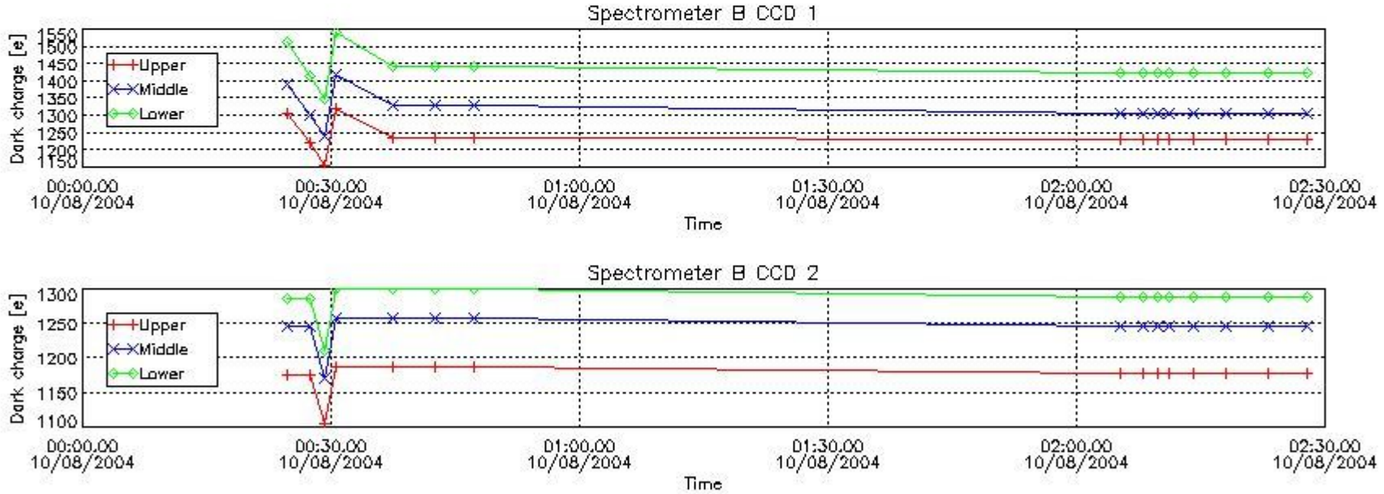
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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.

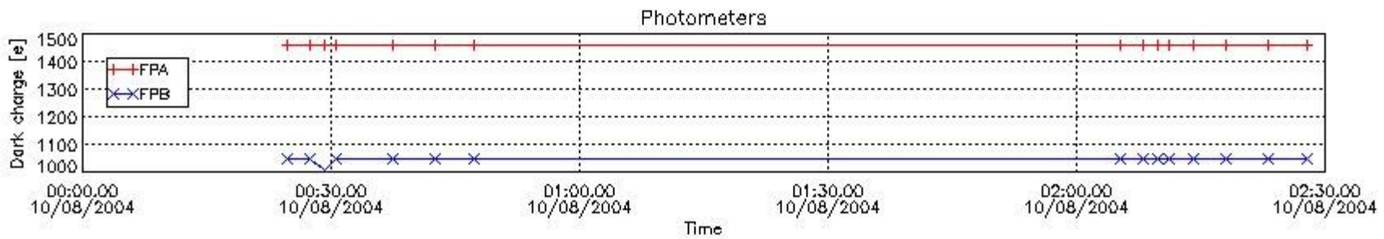
4.1 All products used the DSA observation for the DC computation

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used









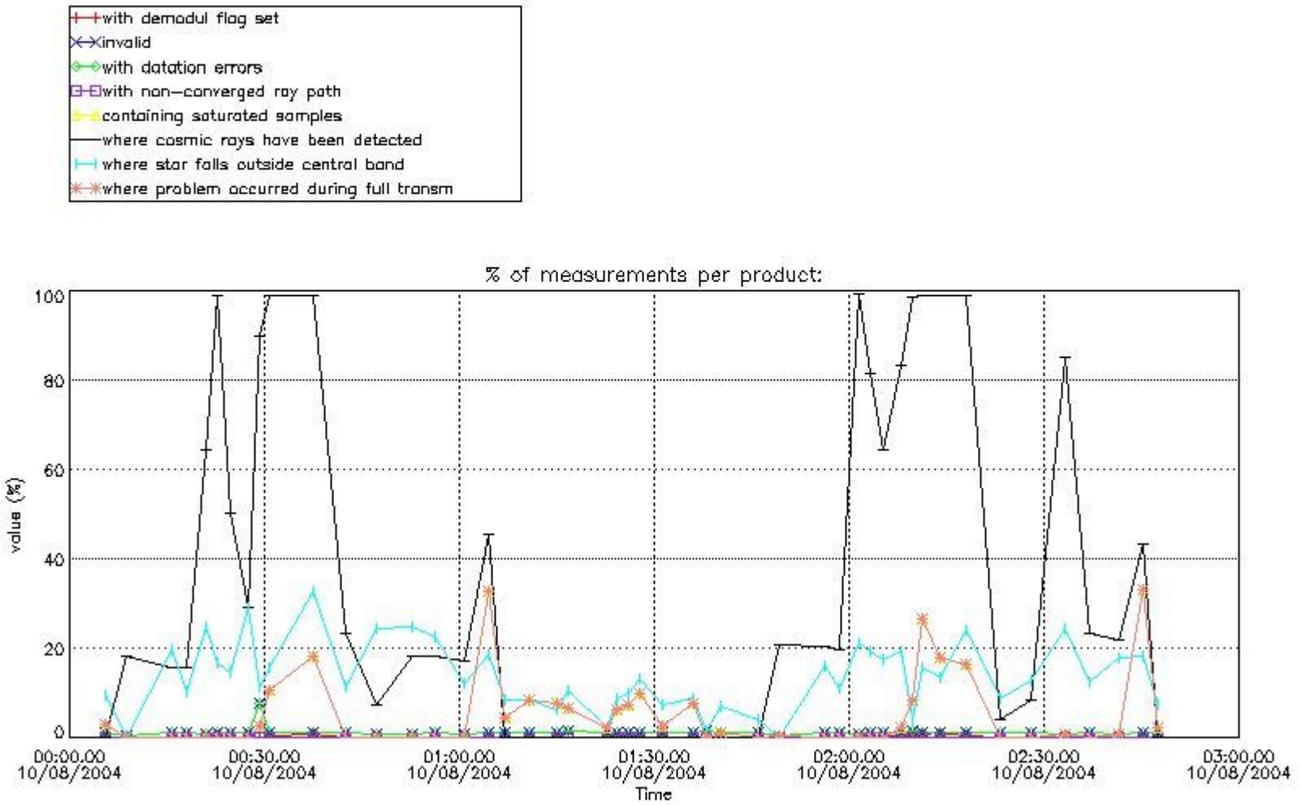
5. Demodulation flag and quality information monitoring

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:

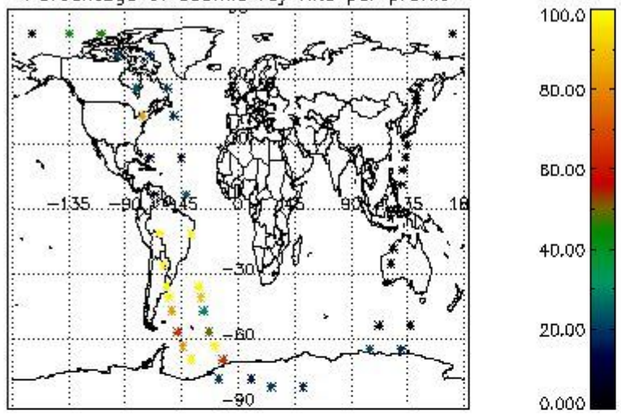
At least one measurement with demodulation flag set:	33.3333 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

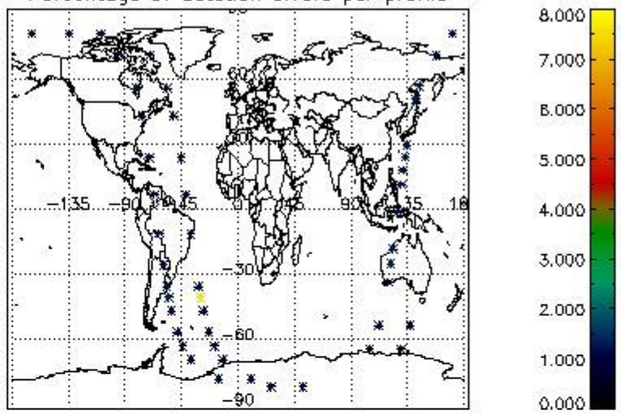


5.3 Plot quality information per product (world map)

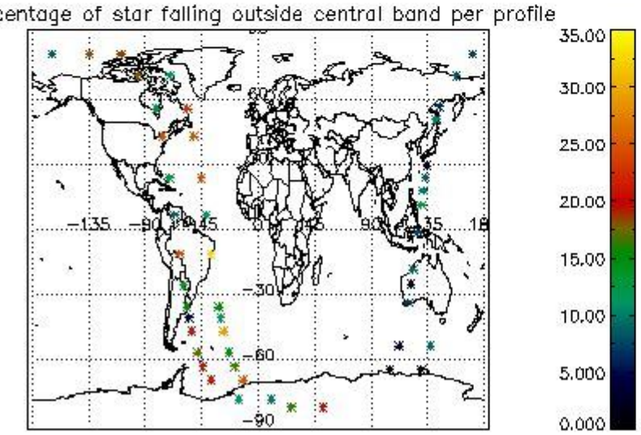
Percentage of cosmic ray hits per profile



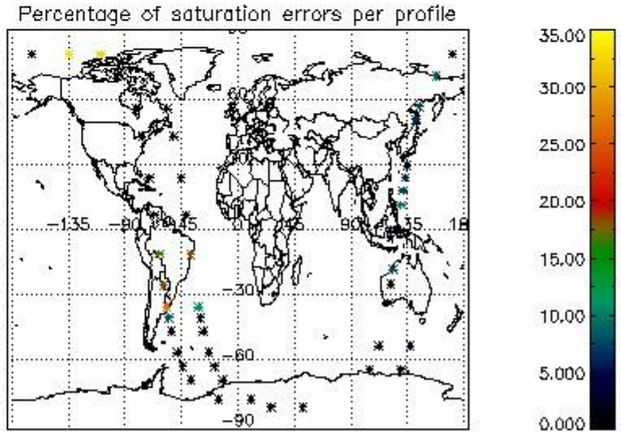
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



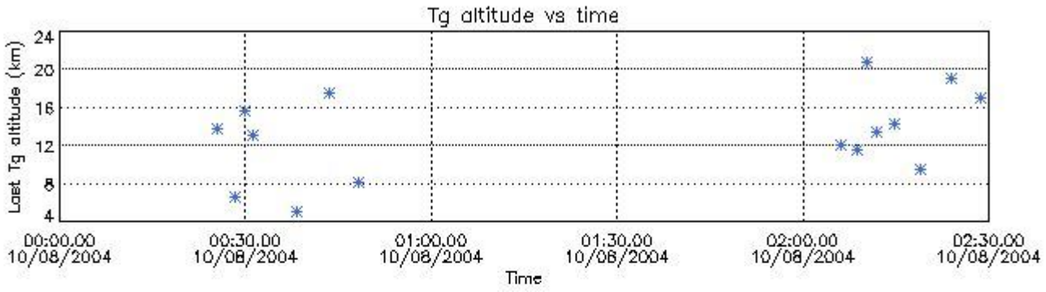
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

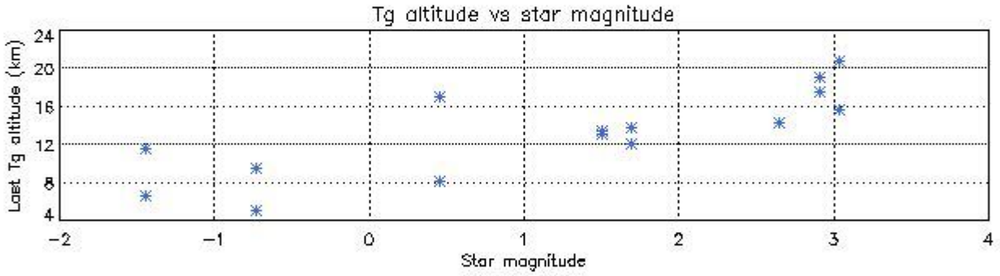
6.1 Statistics on tangent altitude lost:

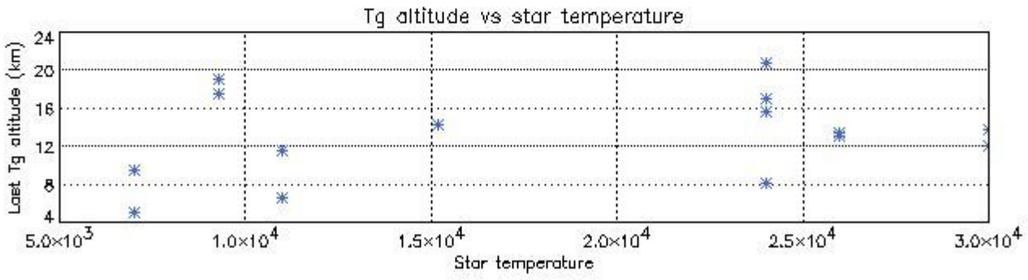
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.131	18.772	14.474
St. deviation:	4.5296	3.6093	7.1902
Maximum:	20.741	25.974	30.248
Minimum:	4.9905	12.598	8.0213
Number of data:	15.000	19.000	14.000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

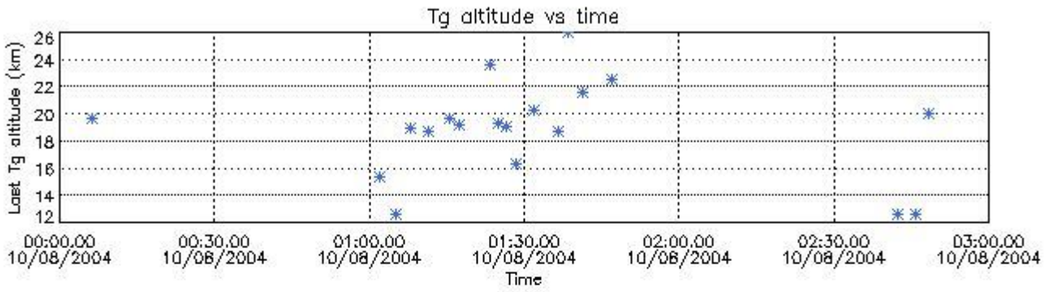


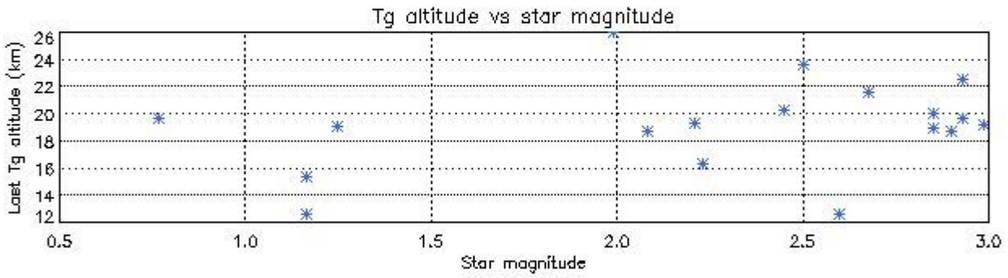


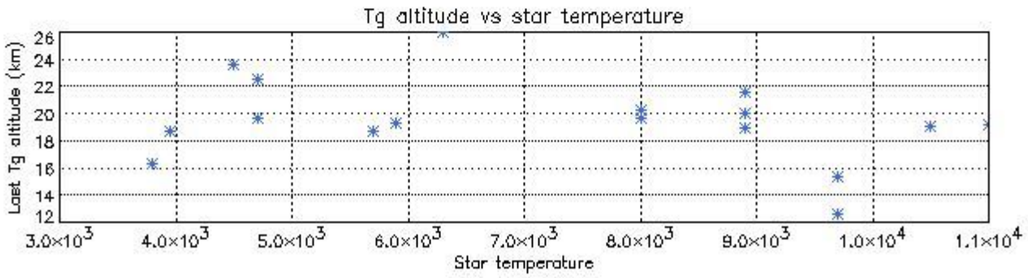


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

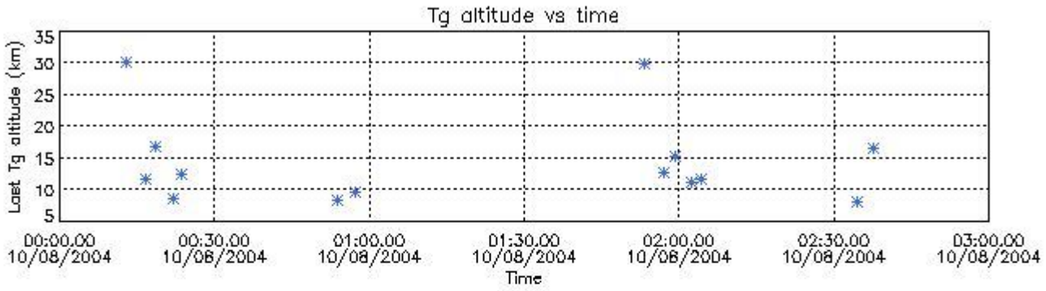


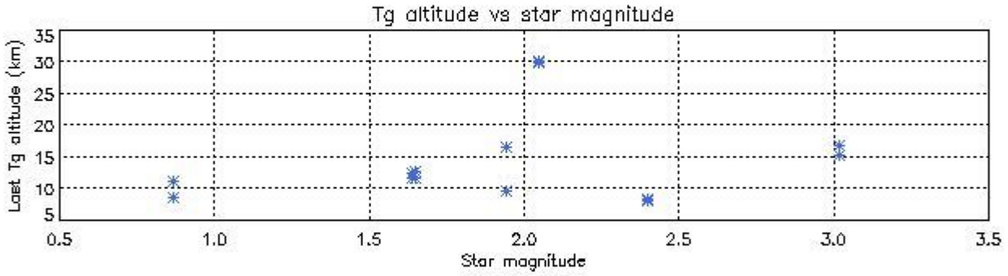


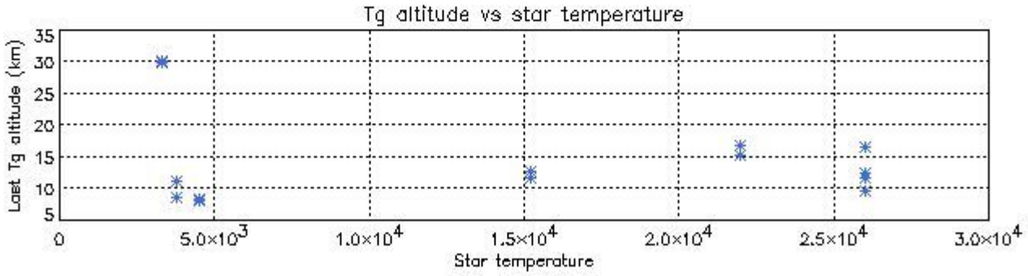


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



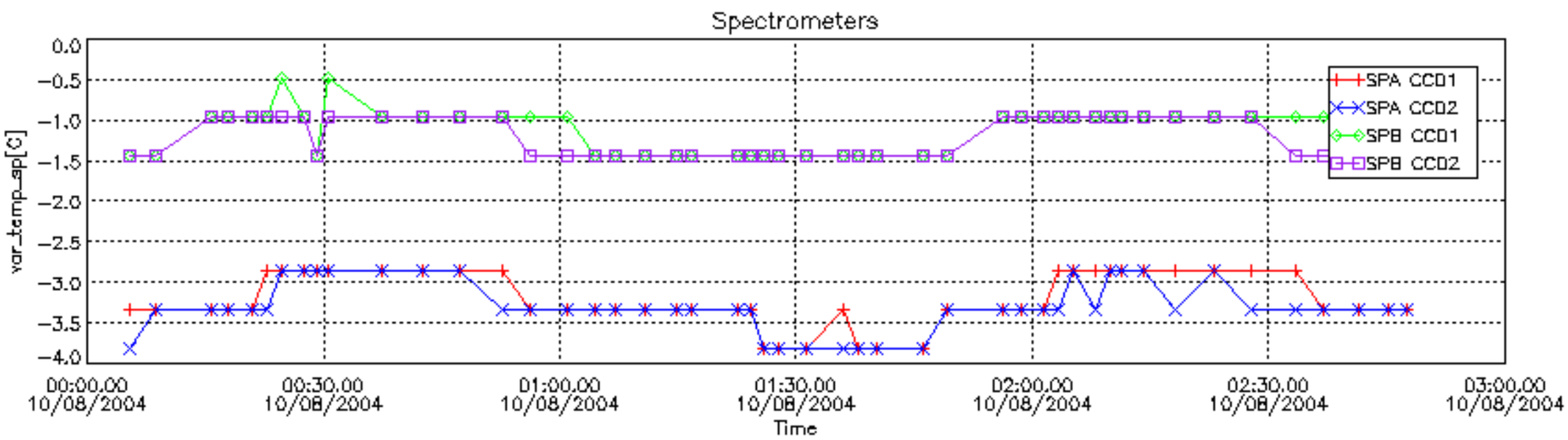




7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1460.3	1446.5	1461.8	1447.3
St. deviation:	5.3016	6.6628	6.8070	7.4476
Maximum:	1630.0	1601.0	1507.0	1490.0
Minimum:	1455.0	1438.0	1430.0	1413.0
Number of data:	17300.	17300.	22250.	22250.


Spectrometers
var_temp_sp[C]
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
−3.5
−4.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00 10/08/2004
00:30.00 10/08/2004
01:00.00 10/08/2004
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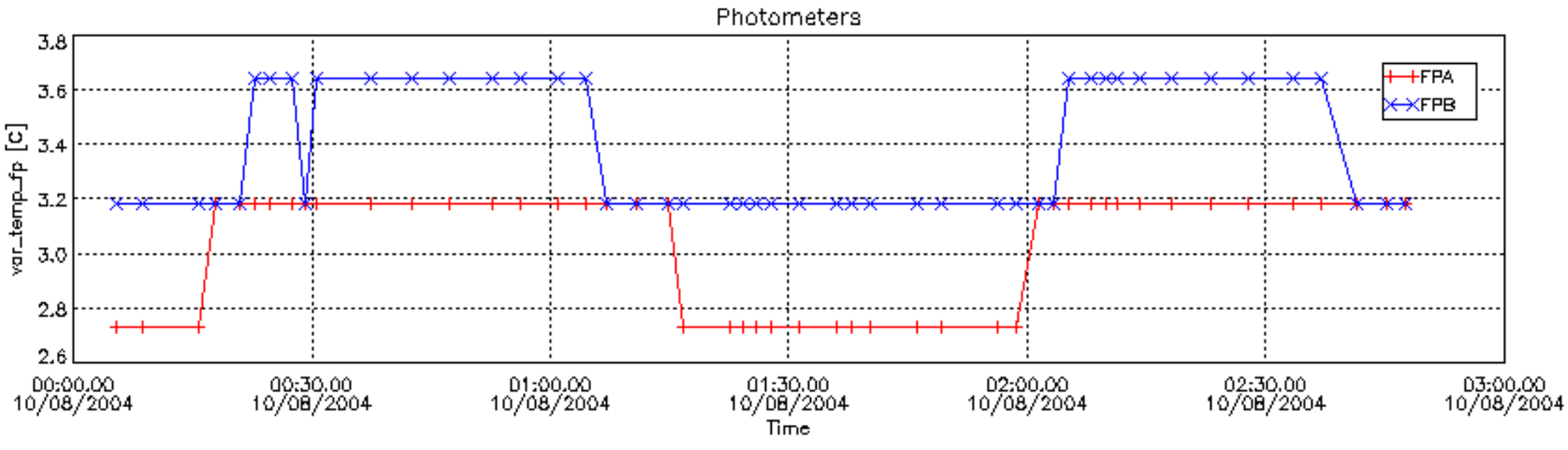
Time


Photometers
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3.4
3.2
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2.6
FPA
FPB
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01:00.00 10/08/2004
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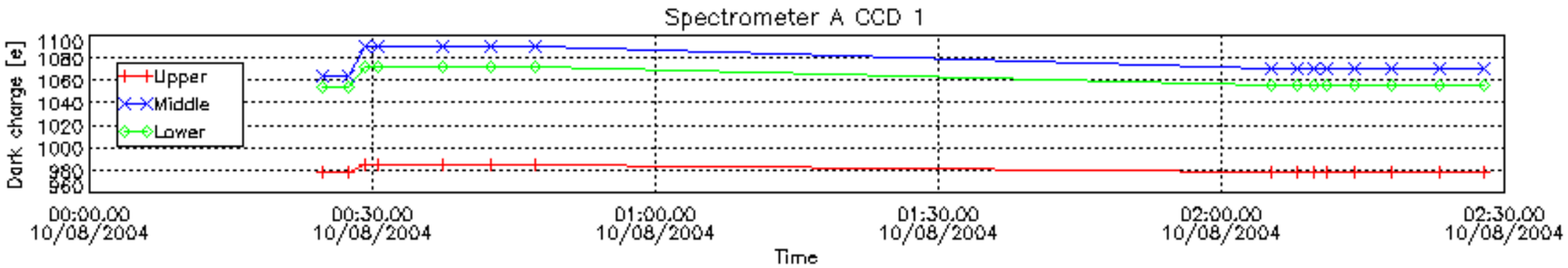
Time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1040
1020
1000
980
960
Upper
Middle
Lower
00:00.00
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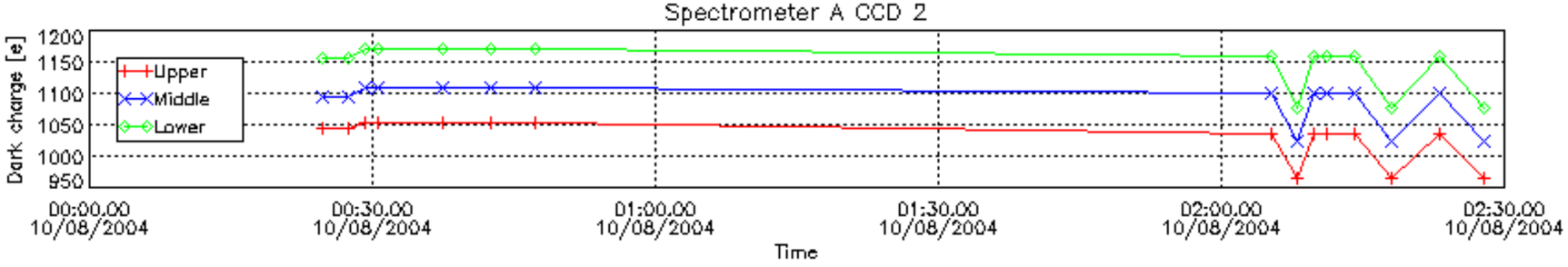
00:30.00
10/08/2004
01:00.00
10/08/2004
01:30.00
10/08/2004
02:00.00
10/08/2004
02:30.00
10/08/2004
Time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Dark charge [e]
1200
1150
1100
1050
1000
950
Upper
Middle
Lower
00:00.00
10/08/2004
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10/08/2004
01:00.00
10/08/2004
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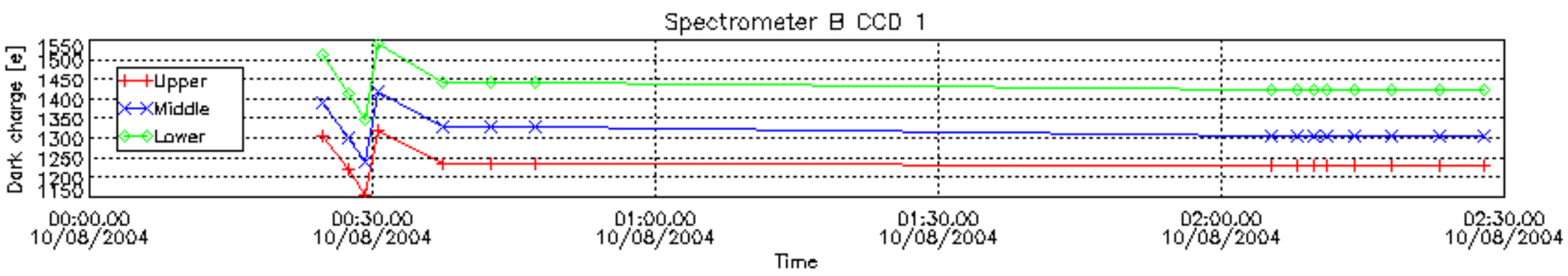
10/08/2004
02:30.00
10/08/2004
Time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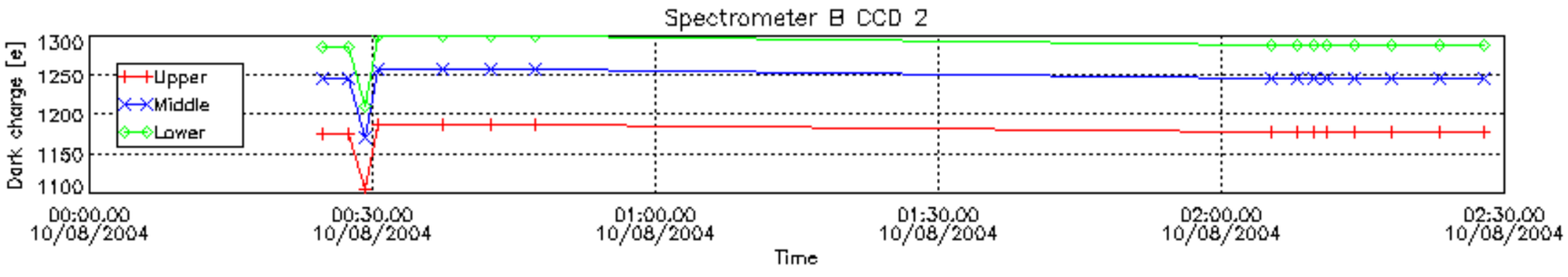
1500
1450
1400
1350
1300
1250
1200
1150
Upper
Middle
Lower
00:00.00
10/08/2004
00:30.00
10/08/2004
01:00.00
10/08/2004
01:30.00
10/08/2004
02:00.00
10/08/2004
02:30.00
10/08/2004
Time


Spectrometer B CCD 2
Dark charge [e]
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1250
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1150
1100
Upper
Middle
Lower
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10/08/2004
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10/08/2004
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01:30.00
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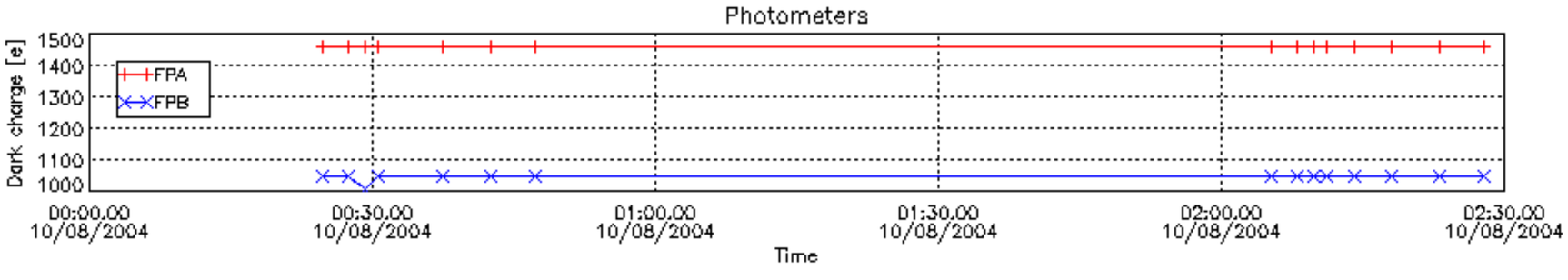
02:00.00
10/08/2004
02:30.00
10/08/2004
Time


Photometers
Dark charge [e]
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1300
1200
1100
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FPA
FPB
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00:30.00
10/08/2004
01:00.00
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02:00.00
10/08/2004
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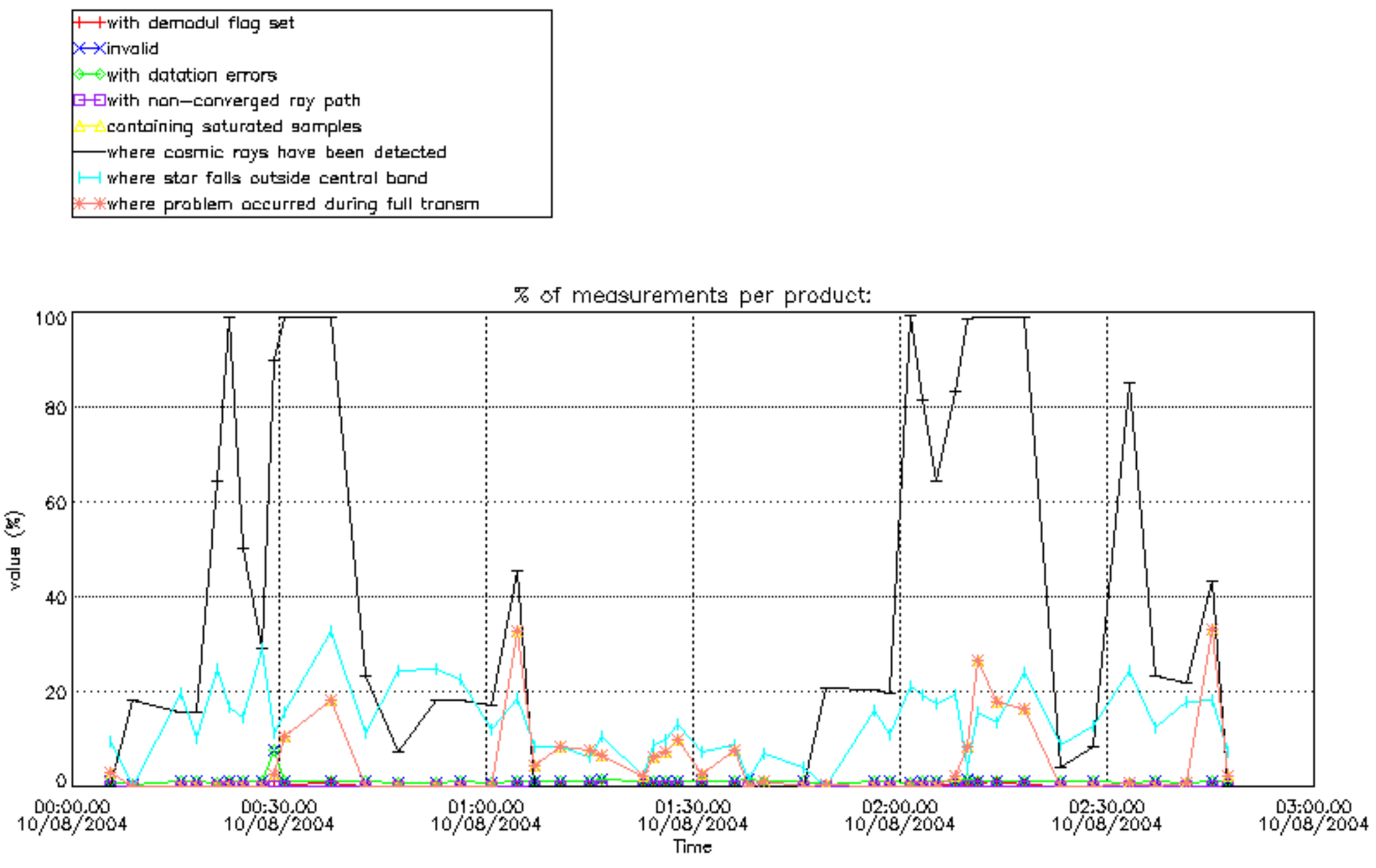
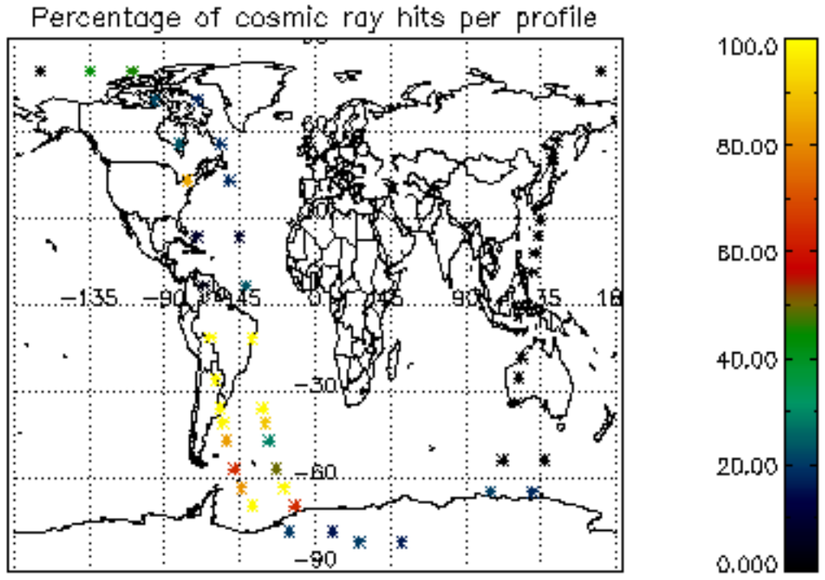
10/08/2004
Time


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
% of measurements per product:
100
80
60
40
20
0
value (%)
00:00.00
10/08/2004
00:30.00
10/08/2004
01:00.00
10/08/2004
01:30.00
10/08/2004
02:00.00
10/08/2004
02:30.00
10/08/2004
03:00.00
10/08/2004
Time


Percentage of cosmic ray hits per profile
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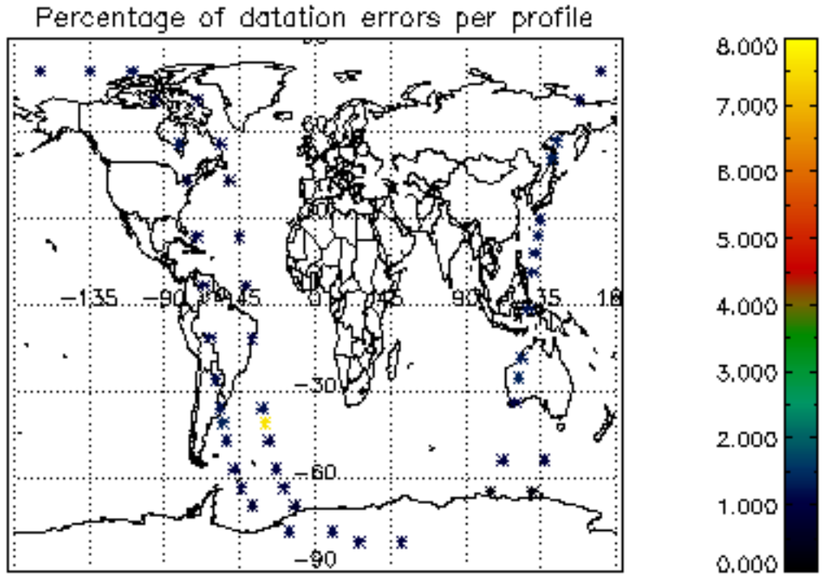
80.00
60.00
40.00
20.00
0.000
-135
-90
-45
0
45
90
135
180
-30
-60
-90


Percentage of datation errors per profile
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7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000
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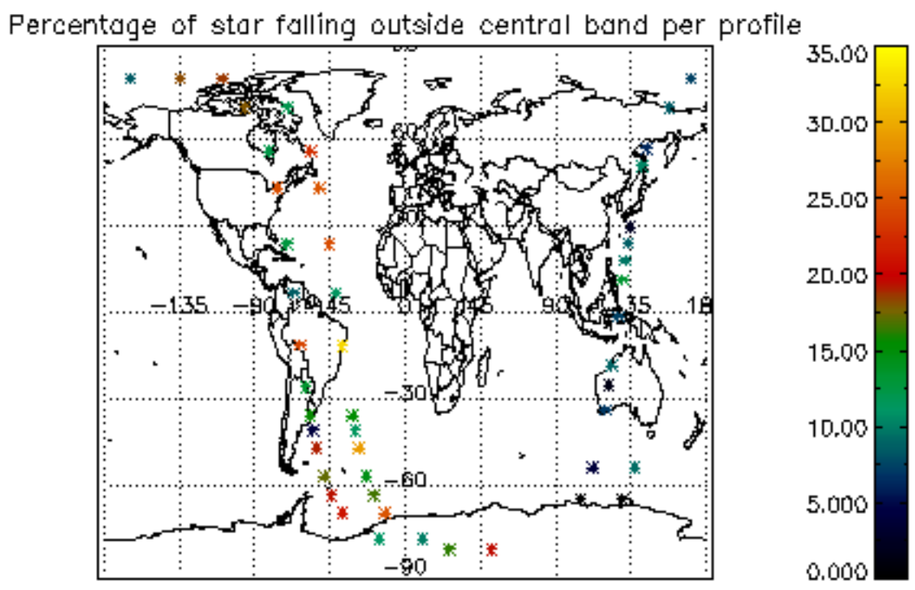
-90
-45
0
45
90
135
180
-30
-60
-90


Percentage of star falling outside central band per profile
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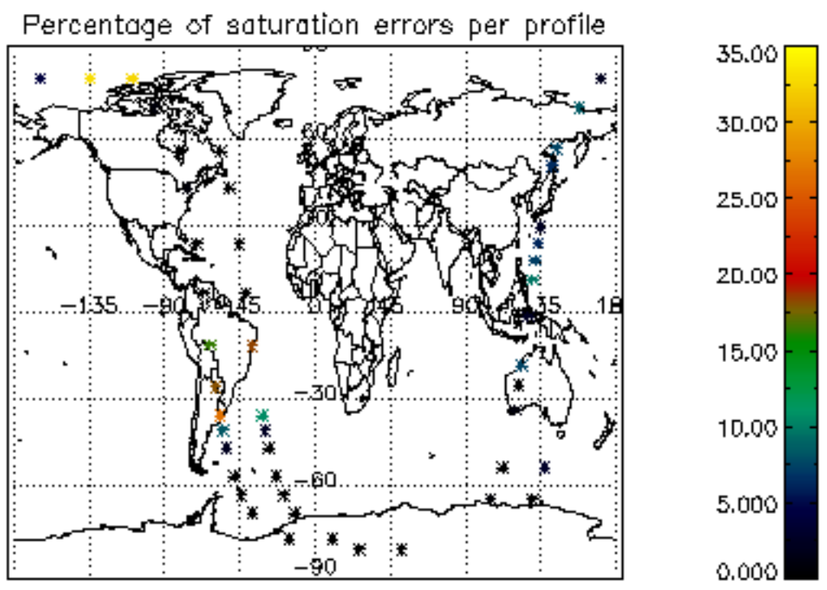
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-135
-90
-45
0
45
90
135
180
-30
-60
-90


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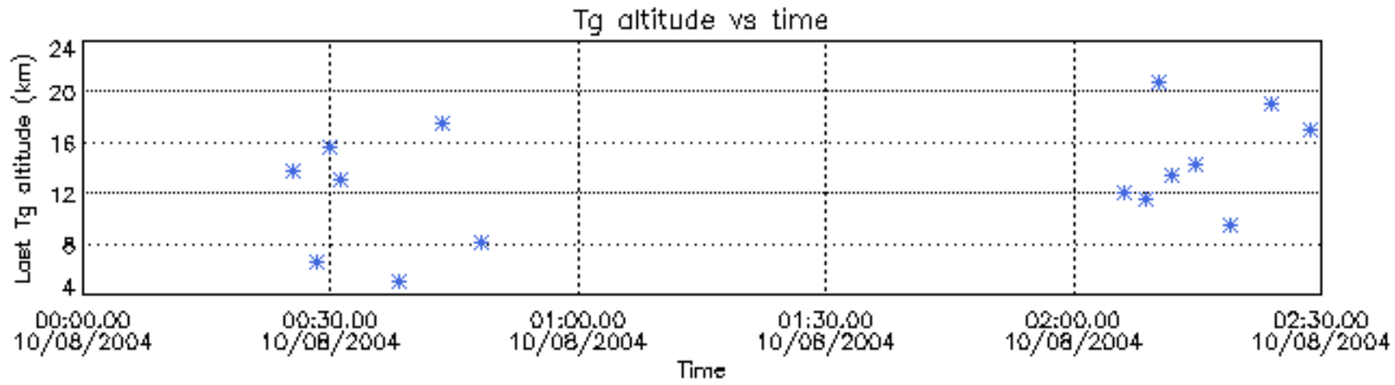
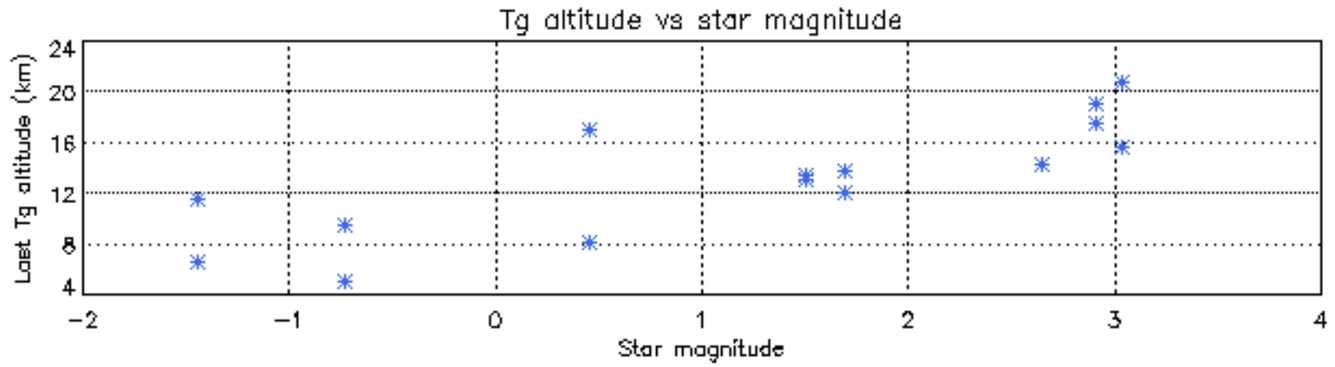
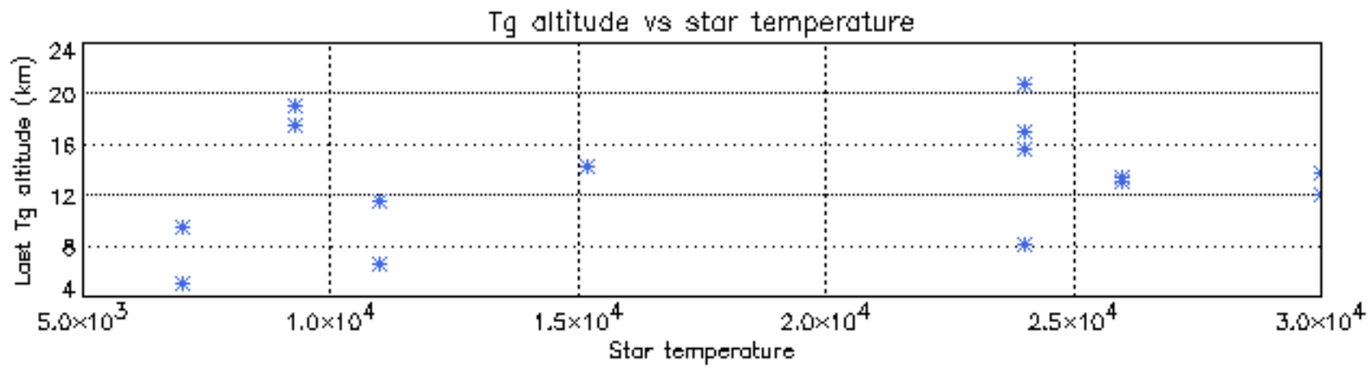
-90
-45
0
45
90
135
180
-30
-60
-90

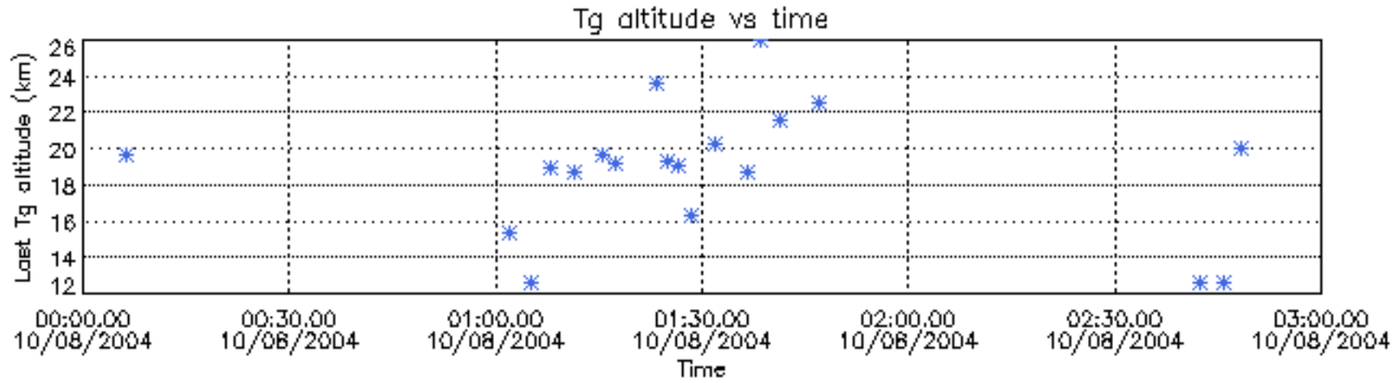
Tangent altitude at which the star is lost

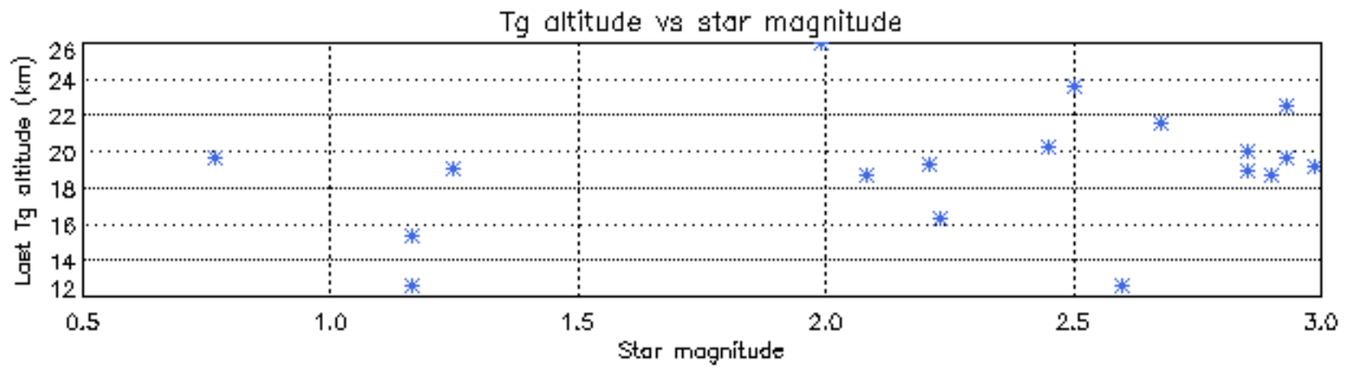


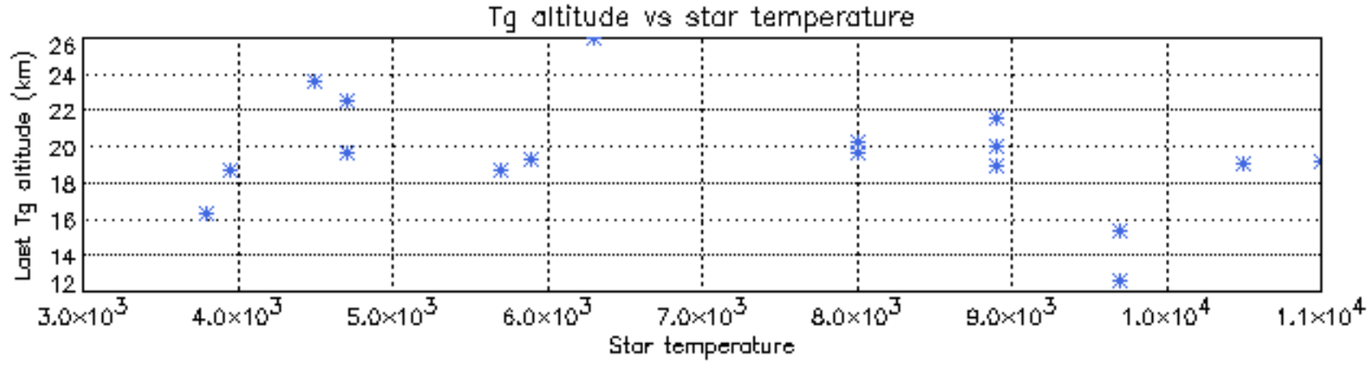




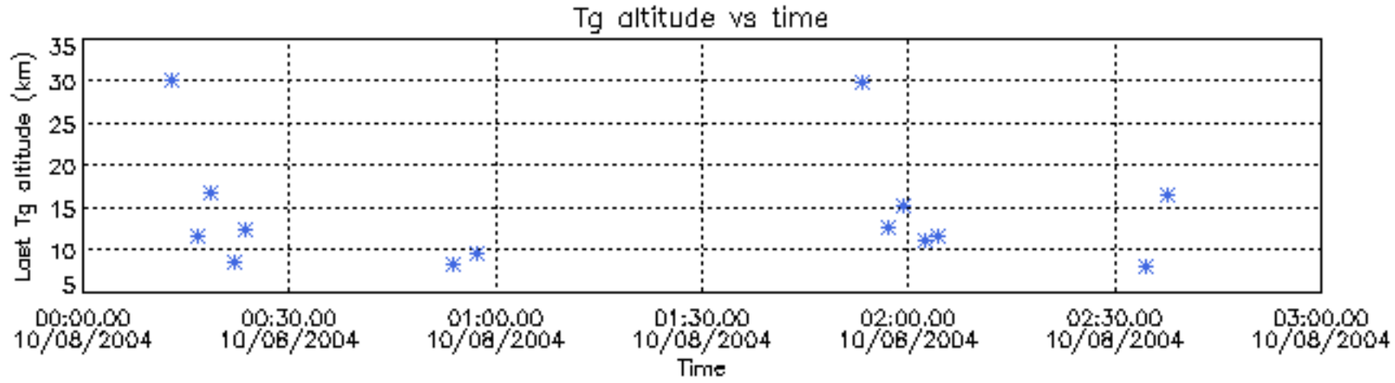
Tangent altitude at which the star is lost

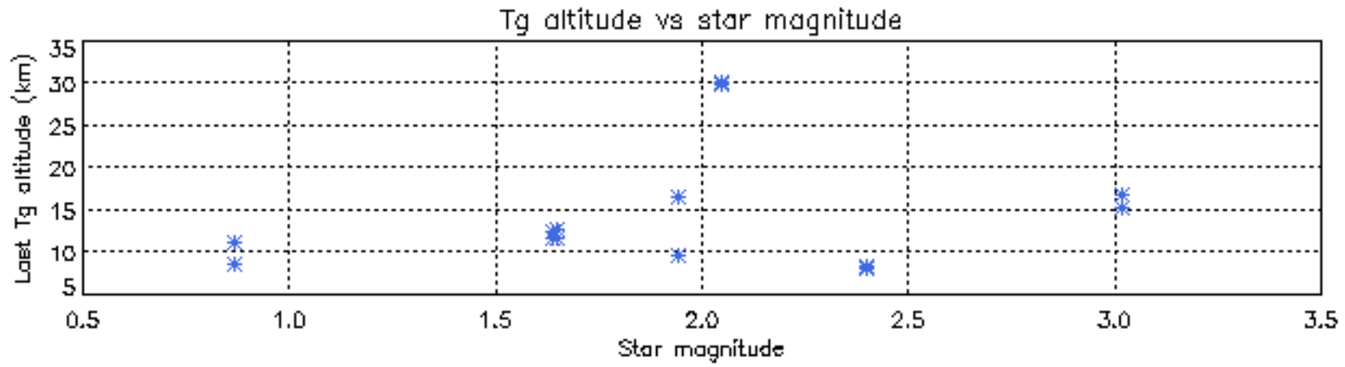


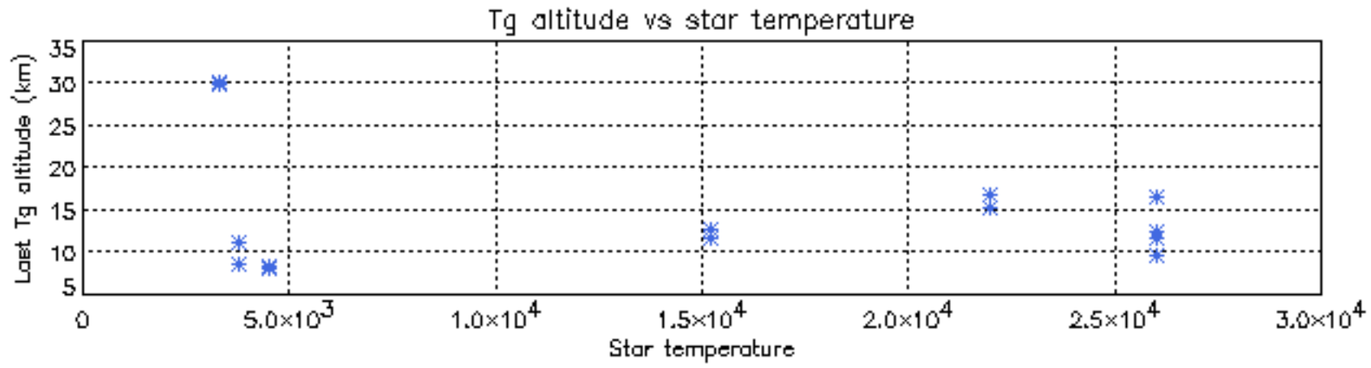




Tangent altitude at which the star is lost







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   5;-3347.7; 02-AUG-2004 12:20:49; Bright;  38.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  76;   0;12674
   6;-3235.8; 02-AUG-2004 12:22:41; Bright;  40.0;   69; 33Gam Dra  ; 2.23;  3800;occ;  80;   0;12674
   7;-2991.9; 02-AUG-2004 12:26:44; Bright;  39.0;  119; 14Eta Dra  ; 2.73;  4700;occ;  78;   0;12674
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  31; 1570.0; 02-AUG-2004 13:42:46; Bright;   1.5;  142; 49Del Cap  ; 2.85;  8900;occ;   3;   0;12675
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   8;-2991.4; 02-AUG-2004 14:07:21; Bright;  38.0;  119; 14Eta Dra  ; 2.73;  4700;occ;  76;   0;12675
   9;-2743.8; 02-AUG-2004 14:11:28; Bright;  39.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  78;   0;12675
  10;-2596.7; 02-AUG-2004 14:13:56; Bright;  37.5;   49;  1Alp UMi  ; 1.99;  6300;occ;  75;   0;12675
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  28;-144768594.9; 01-JAN-2000 01:27:17; Dark  ;  41.0;  135;   Bet Hyi  ; 2.82;  5800;occ;  82;   0;12675
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  30;-144768297.3; 01-JAN-2000 01:32:15; Dark  ;  45.5;  148;   Alp Tuc  ; 2.88;  4100;occ;  91;   0;12675
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  28;  716.8; 09-AUG-2004 11:27:49; Dark  ;  59.0;   84;   Alp Phe  ; 2.40;  4500;occ; 118;   0;12774
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  30; 1207.0; 09-AUG-2004 11:35:59; Dark  ;  63.0;   18; 24Alp PsA  ; 1.17;  9700;occ; 126;   0;12774
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  29; 944.6; 11-AUG-2004 13:49:34; Dark ; 39.5;   45;   Alp Pav ; 1.94; 26000;occ; 79;   0;12804
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   8;-3186.9; 15-AUG-2004 08:53:38; Bright;  40.0;   69; 33Gam Dra  ; 2.23;  3800;occ;  80;   0;12858
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  13; 1285.7; 22-AUG-2004 21:32:15; Dark ; 58.0;   18; 24Alp PsA ; 1.17; 9700;occ; 116;   0;12966
  14; 1600.7; 22-AUG-2004 21:37:30; Dark ; 46.5; 142; 49Del Cap ; 2.85; 8900;occ; 93;   0;12966
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  21; 2990.2; 23-AUG-2004 01:21:51; Bright;  36.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  73;   0;12968
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