GOMOS Daily Report 05-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	06AUG2004 05:03:11
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (05AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (06AUG2004 00:00:00)

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

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

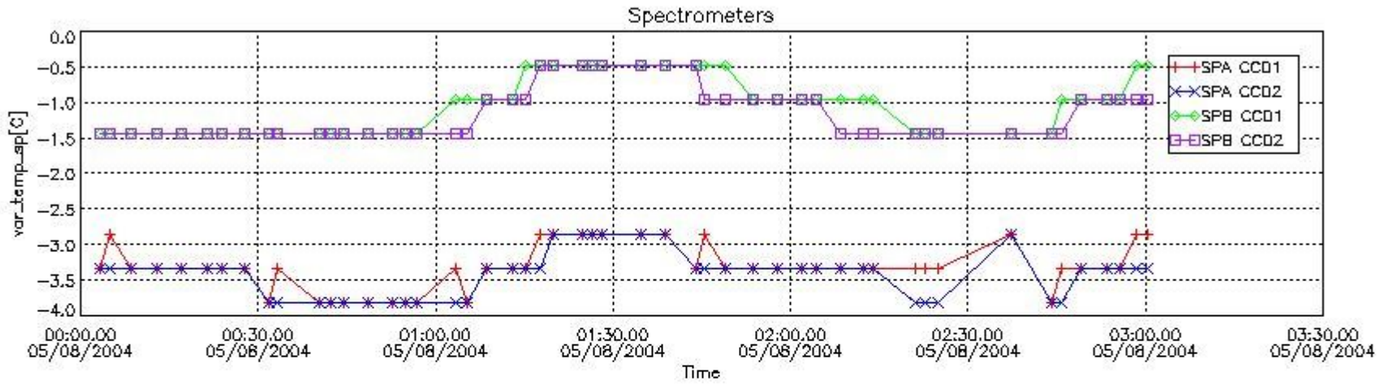
2.1 Level 0 products arrived in PCF (see template here)

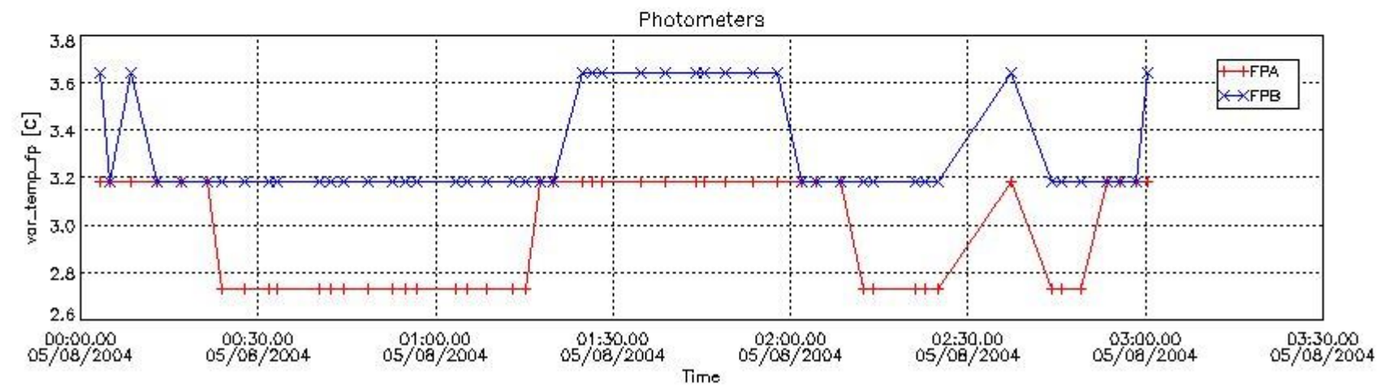
2.2 Summary of processed GOM_TRA_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040805_000320_000000462029_00131_12710_0005.N1	05-AUG-2004 00:03:20	Dark	45.500	9	Alp Eri	0.45300	24000.	91	12710	No
GOM_TRA_1PNPDE20040805_000450_000000422029_00131_12710_0006.N1	05-AUG-2004 00:04:50	Dark	41.500	135	Bet Hyi	2.8200	5800.0	83	12710	No
GOM_TRA_1PNPDE20040805_000825_000000602029_00131_12710_0007.N1	05-AUG-2004 00:08:25	Dark	60.000	84	Alp Phe	2.3970	4500.0	120	12710	No
GOM_TRA_1PNPDE20040805_001257_000000422029_00131_12710_0008.N1	05-AUG-2004 00:12:57	Twilight	42.000	45	Alp Pav	1.9400	26000.	84	12710	No
GOM_TRA_1PNPDE20040805_001704_000000652029_00131_12710_0009.N1	05-AUG-2004 00:17:04	Bright	65.000	18	24Alp PsA	1.1660	9700.0	130	12710	No
GOM_TRA_1PNPDE20040805_002116_000000412029_00131_12710_0010.N1	05-AUG-2004 00:21:16	Bright	41.000	103	38Zet Sgr	2.6000	9700.0	82	12710	No
GOM_TRA_1PNPDE20040805_002346_000000502029_00131_12710_0011.N1	05-AUG-2004 00:23:46	Bright	49.500	142	49Del Cap	2.8500	8900.0	99	12710	No
GOM_TRA_1PNPDE20040805_002741_000000522029_00131_12710_0012.N1	05-AUG-2004 00:27:41	Bright	52.000	154	22Bet Aqr	2.8990	5700.0	104	12710	No
GOM_TRA_1PNPDE20040805_003149_000000392029_00131_12710_0013.N1	05-AUG-2004 00:31:49	Bright	38.500	11	53Alp Aql	0.76500	8000.0	77	12710	No
GOM_TRA_1PNPDE20040805_003321_000000382029_00131_12710_0014.N1	05-AUG-2004 00:33:21	Bright	38.000	168	17Zet Aql	2.9860	11000.	76	12710	No
GOM_TRA_1PNPDE20040805_004027_000000422029_00131_12710_0015.N1	05-AUG-2004 00:40:27	Bright	41.500	5	3Alp Lyr	0.033000	11000.	83	12710	No
GOM_TRA_1PNPDE20040805_004216_000000372029_00131_12710_0016.N1	05-AUG-2004 00:42:16	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	12710	No
GOM_TRA_1PNPDE20040805_004420_000000402029_00131_12710_0017.N1	05-AUG-2004 00:44:20	Bright	40.000	69	33Gam Dra	2.2310	3800.0	80	12710	No
GOM_TRA_1PNPDE20040805_004829_000000402029_00131_12710_0018.N1	05-AUG-2004 00:48:29	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	12710	No
GOM_TRA_1PNPDE20040805_005235_000000352029_00131_12710_0019.N1	05-AUG-2004 00:52:35	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	12710	No
GOM_TRA_1PNPDE20040805_005452_000000352029_00131_12710_0020.N1	05-AUG-2004 00:54:52	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	12710	No
GOM_TRA_1PNPDE20040805_005646_000000502029_00131_12710_0021.N1	05-AUG-2004 00:56:46	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	12710	No
GOM_TRA_1PNPDE20040805_010328_000000512029_00131_12710_0022.N1	05-AUG-2004 01:03:28	Bright	50.500	160	23Gam Per	2.9300	4700.0	101	12710	No
GOM_TRA_1PNPDE20040805_010513_000000502029_00131_12710_0023.N1	05-AUG-2004 01:05:13	Bright	50.000	35	33Alp Per	1.7950	6250.0	100	12710	No
GOM_TRA_1PNPDE20040805_010835_000000632029_00131_12710_0024.N1	05-AUG-2004 01:08:35	Twilight	63.000	79	26Bet Per	2.3100	13100.	126	12710	No
GOM_TRA_1PNPDE20040805_011257_000000492029_00131_12710_0025.N1	05-AUG-2004 01:12:57	Twilight	49.000	28	12Bet Tau	1.6500	15200.	98	12710	No
GOM_TRA_1PNPDE20040805_011505_000000432029_00131_12710_0026.N1	05-AUG-2004 01:15:05	Twilight	43.000	176	23Zet Tau	3.0200	22000.	86	12710	No
GOM_TRA_1PNPDE20040805_011748_000000622029_00131_12710_0027.N1	05-AUG-2004 01:17:48	Twilight	62.000	13	87Alp Tau	0.86700	3800.0	124	12710	No
GOM_TRA_1PNPDE20040805_011944_000000432029_00131_12710_0028.N1	05-AUG-2004 01:19:44	Twilight	43.000	27	24Gam Ori	1.6360	26000.	86	12710	No
GOM_TRA_1PNPDE20040805_012443_000000442029_00131_12710_0000.N1	05-AUG-2004 01:24:43	Dark	43.500	1	9Alp CMa	-1.4400	11000.	87	12710	No
GOM_TRA_1PNPDE20040805_012621_000000452029_00131_12710_0001.N1	05-AUG-2004 01:26:21	Dark	45.000	101	11Alp Lep	2.5820	7000.0	90	12710	No
GOM_TRA_1PNPDE20040805_012801_000000422029_00131_12710_0002.N1	05-AUG-2004 01:28:01	Dark	41.500	23	21Eps CMa	1.5020	26000.	83	12710	No
GOM_TRA_1PNPDE20040805_013447_000000432029_00131_12710_0003.N1	05-AUG-2004 01:34:47	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	12710	No
GOM_TRA_1PNPDE20040805_013846_000000512029_00132_12711_0004.N1	05-AUG-2004 01:38:46	Dark	50.500	157	The1Eri	2.9060	9300.0	101	12711	No
GOM_TRA_1PNPDE20040805_014355_000000492029_00132_12711_0005.N1	05-AUG-2004 01:43:55	Dark	49.000	9	Alp Eri	0.45300	24000.	98	12711	No
GOM_TRA_1PNPDE20040805_014529_000000402029_00132_12711_0006.N1	05-AUG-2004 01:45:29	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	12711	No
GOM_TRA_1PNPDE20040805_014902_000000732029_00132_12711_0007.N1	05-AUG-2004 01:49:02	Dark	73.000	84	Alp Phe	2.3970	4500.0	146	12711	No
GOM_TRA_1PNPDE20040805_015333_000000482029_00132_12711_0008.N1	05-AUG-2004 01:53:33	Twilight	48.000	45	Alp Pav	1.9400	26000.	96	12711	No
GOM_TRA_1PNPDE20040805_015741_000000672029_00132_12711_0009.N1	05-AUG-2004 01:57:41	Bright	66.500	18	24Alp PsA	1.1660	9700.0	133	12711	No
GOM_TRA_1PNPDE20040805_020152_000000482029_00132_12711_0010.N1	05-AUG-2004 02:01:52	Bright	47.500	103	38Zet Sgr	2.6000	9700.0	95	12711	No
GOM_TRA_1PNPDE20040805_020423_000000522029_00132_12711_0011.N1	05-AUG-2004 02:04:23	Bright	52.000	142	49Del Cap	2.8500	8900.0	104	12711	No
GOM_TRA_1PNPDE20040805_020820_000000522029_00132_12711_0012.N1	05-AUG-2004 02:08:20	Bright	52.000	154	22Bet Aqr	2.8990	5700.0	104	12711	No
GOM_TRA_1PNPDE20040805_021224_000000402029_00132_12711_0013.N1	05-AUG-2004 02:12:24	Bright	39.500	11	53Alp Aql	0.76500	8000.0	79	12711	No
GOM_TRA_1PNPDE20040805_021355_000000402029_00132_12711_0014.N1	05-AUG-2004 02:13:55	Bright	39.500	168	17Zet Aql	2.9860	11000.	79	12711	No
GOM_TRA_1PNPDE20040805_022104_000000382029_00132_12711_0015.N1	05-AUG-2004 02:21:04	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	12711	No
GOM_TRA_1PNPDE20040805_022251_000000372029_00132_12711_0016.N1	05-AUG-2004 02:22:51	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	12711	No
GOM_TRA_1PNPDE20040805_022454_000000382029_00132_12711_0017.N1	05-AUG-2004 02:24:54	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	12711	No
GOM_TRA_1PNPDE20040805_023721_000000492029_00132_12711_0000.N1	05-AUG-2004 02:37:21	Bright	49.000	76	27Gam Cas	2.3000	30000.	98	12711	Yes
GOM_TRA_1PNPDE20040805_024404_000000502029_00132_12711_0001.N1	05-AUG-2004 02:44:04	Bright	50.000	160	23Gam Per	2.9300	4700.0	100	12711	No
GOM_TRA_1PNPDE20040805_024549_000000522029_00132_12711_0002.N1	05-AUG-2004 02:45:49	Bright	52.000	35	33Alp Per	1.7950	6250.0	104	12711	No
GOM_TRA_1PNPDE20040805_024911_000000612029_00132_12711_0003.N1	05-AUG-2004 02:49:11	Twilight	61.000	79	26Bet Per	2.3100	13100.	122	12711	No
GOM_TRA_1PNPDE20040805_025330_000000492029_00132_12711_0004.N1	05-AUG-2004 02:53:30	Twilight	49.000	28	12Bet Tau	1.6500	15200.	98	12711	No
GOM_TRA_1PNPDE20040805_025540_000000452029_00132_12711_0005.N1	05-AUG-2004 02:55:40	Twilight	45.000	176	23Zet Tau	3.0200	22000.	90	12711	No
GOM_TRA_1PNPDE20040805_025824_000000642029_00132_12711_0006.N1	05-AUG-2004 02:58:24	Twilight	63.500	13	87Alp Tau	0.86700	3800.0	127	12711	No

GOM_TRA_1PNPDE20040805_030020_000000472029_00132_12711_0007.N1	05-AUG-2004 03:00:20	Twilight	46.500	27	24Gam Ori	1.6360	26000.	93	12711	No

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



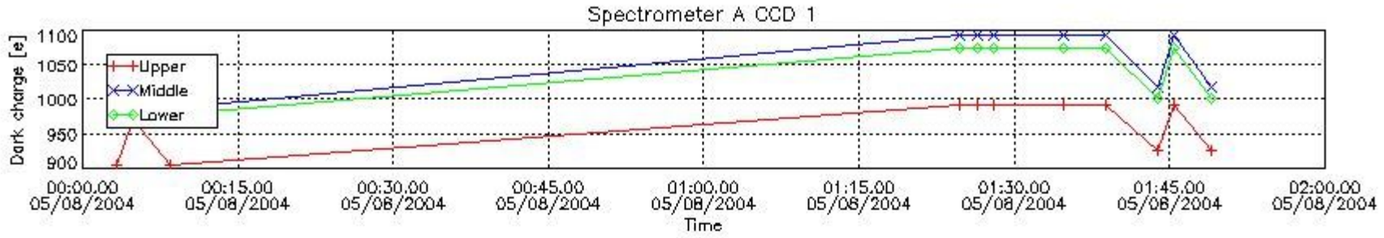


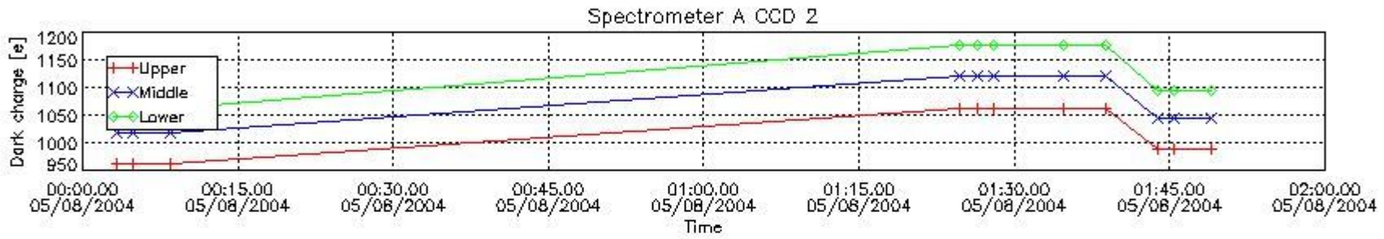
4. Overview of dark signal processing per product

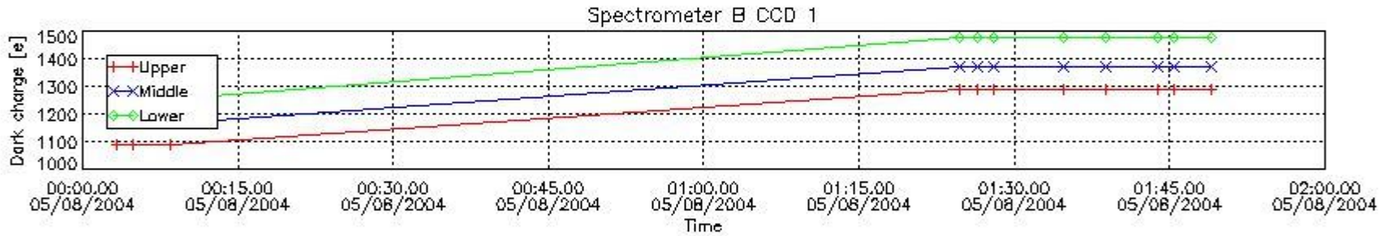
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

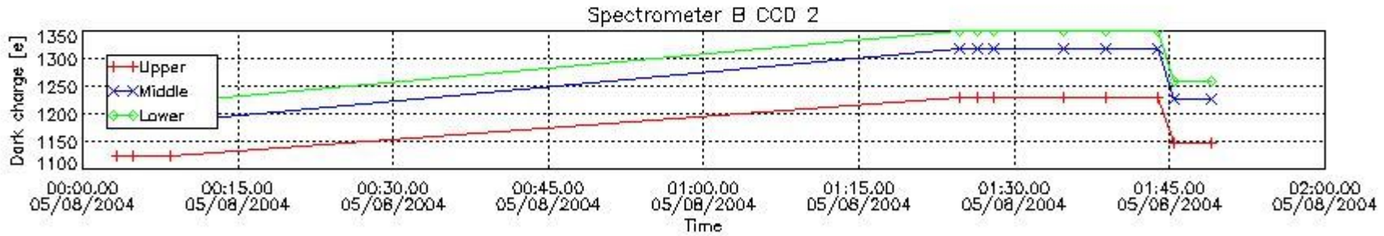
4.1 All products used the DSA observation for the DC computation

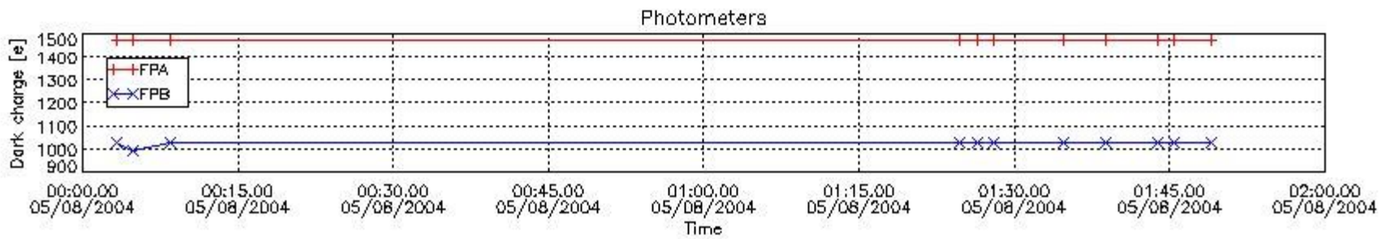
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











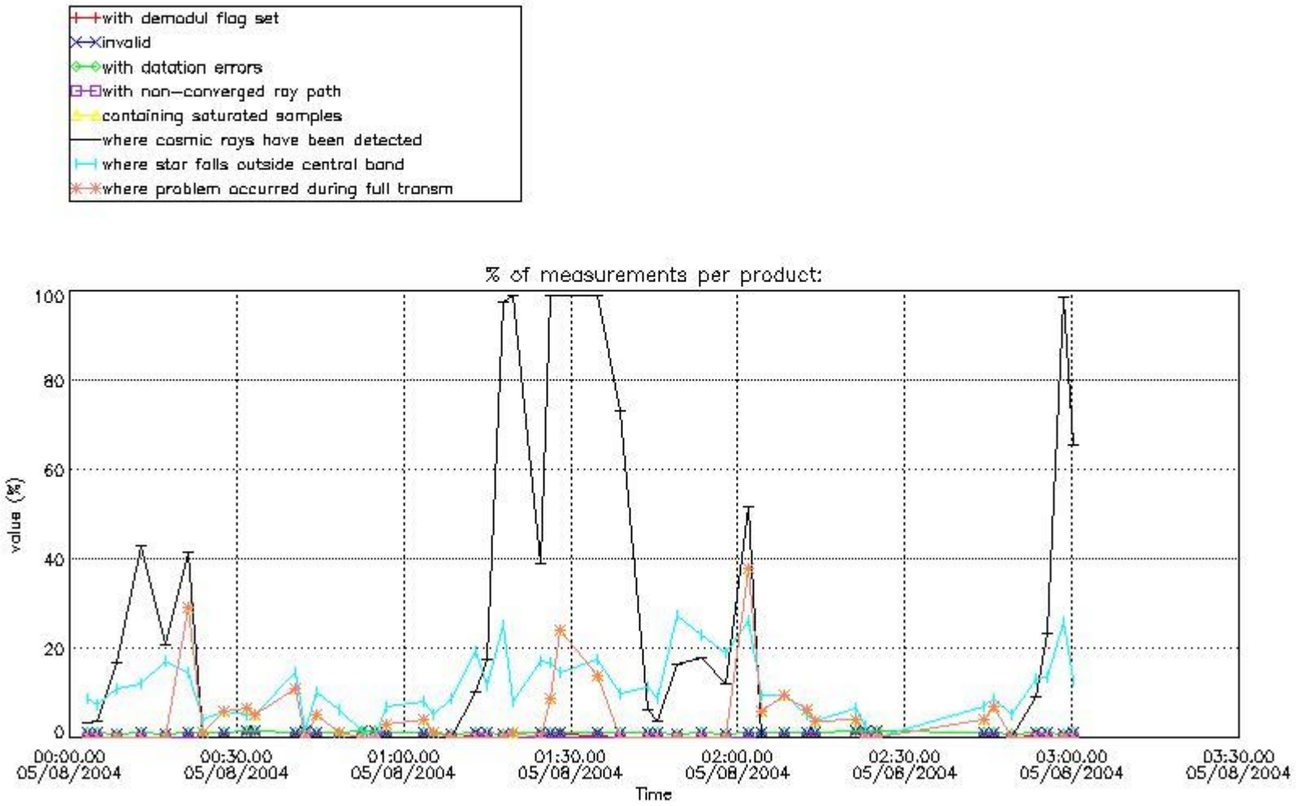
5. Demodulation flag and quality information monitoring

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:

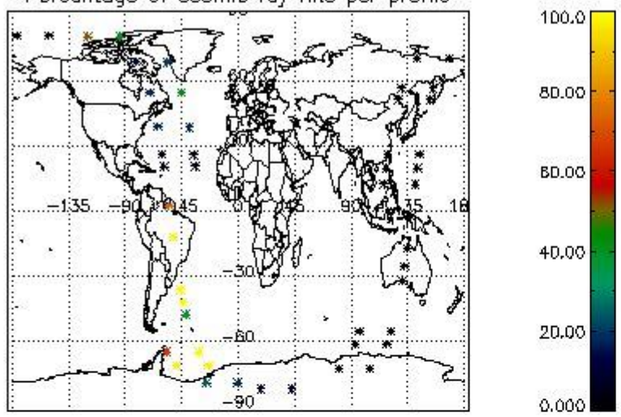
At least one measurement with demodulation flag set:	18.3673 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

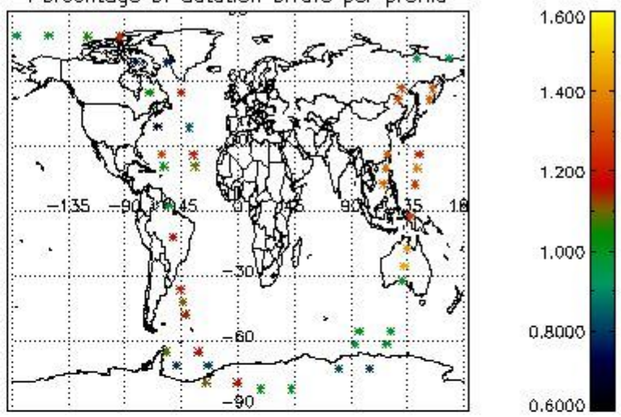


5.3 Plot quality information per product (world map)

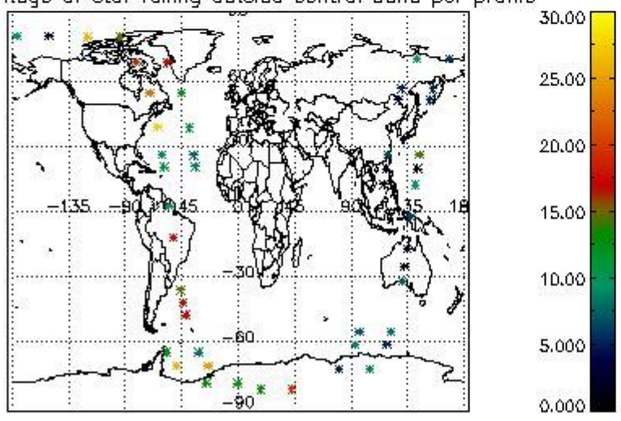
Percentage of cosmic ray hits per profile



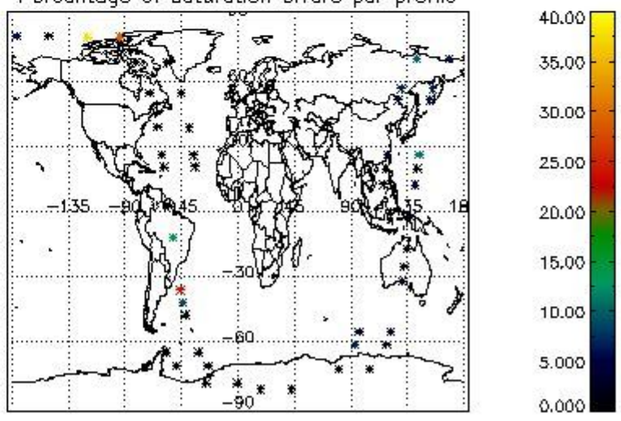
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



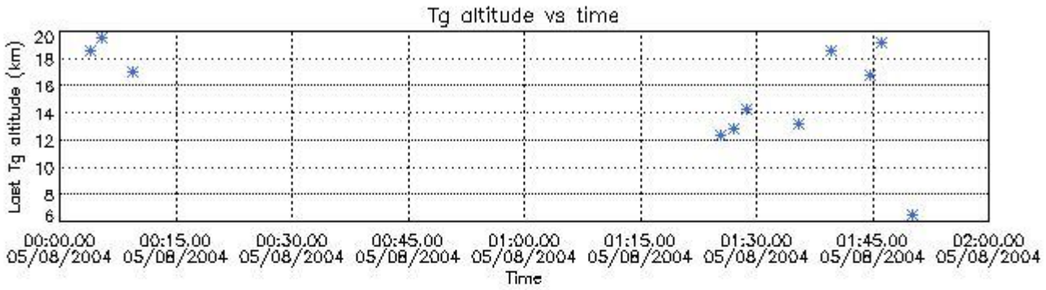
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

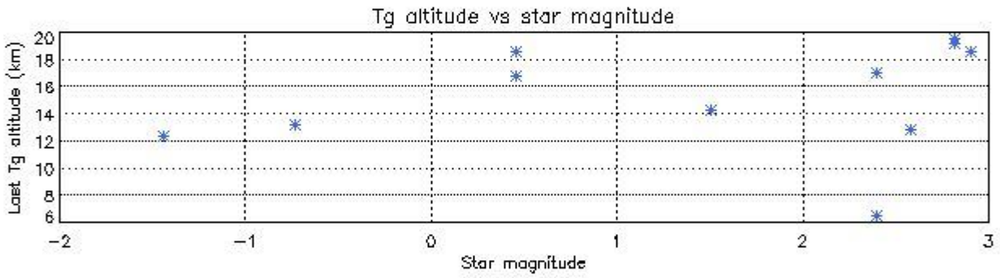
6.1 Statistics on tangent altitude lost:

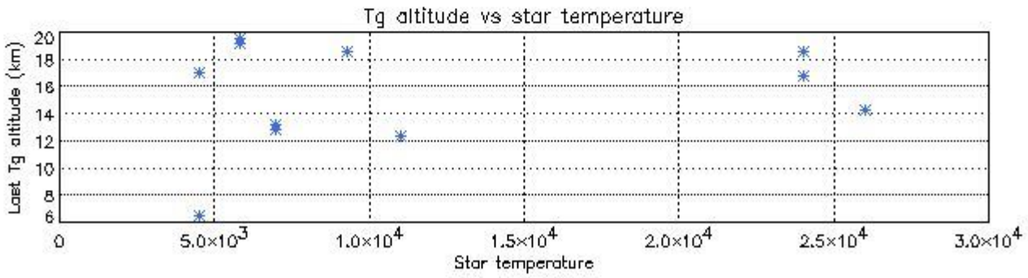
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.337	19.966	14.079
St. deviation:	3.9771	4.7082	3.9587
Maximum:	19.570	28.578	20.251
Minimum:	6.4511	8.4649	8.1238
Number of data:	11.000	26.000	12.000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

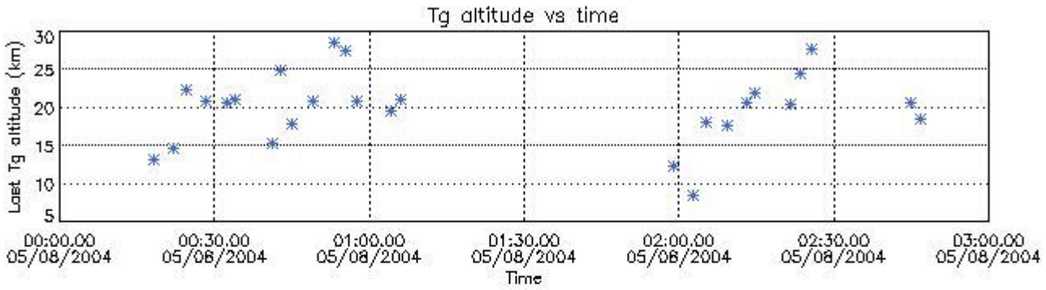


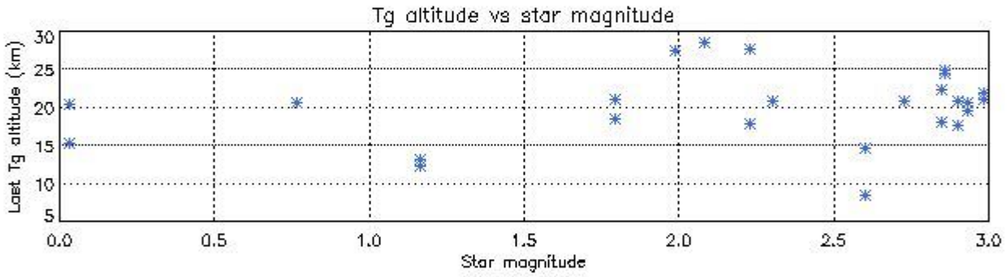


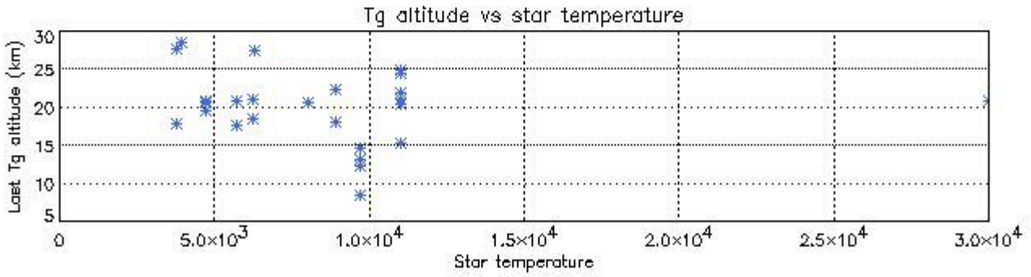


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

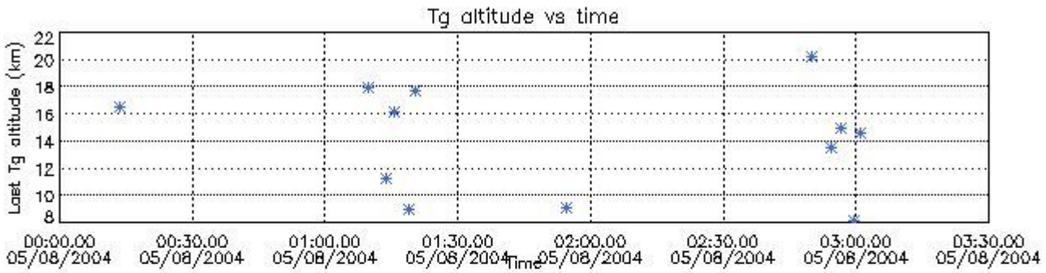


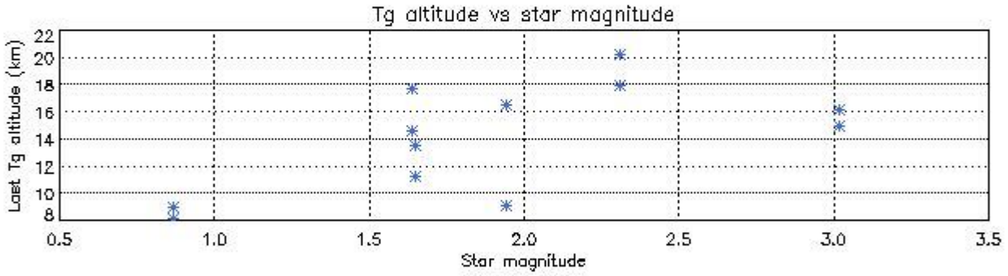


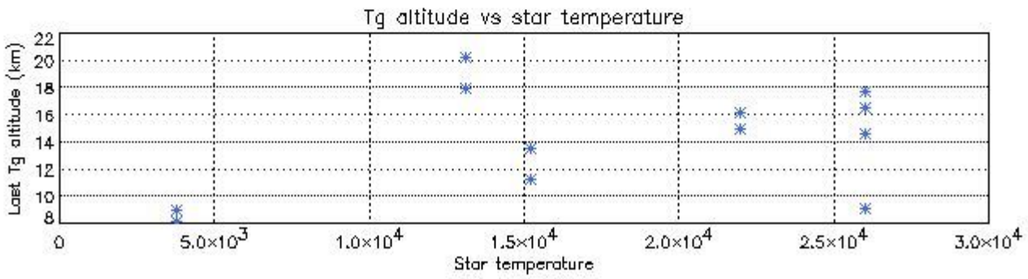


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



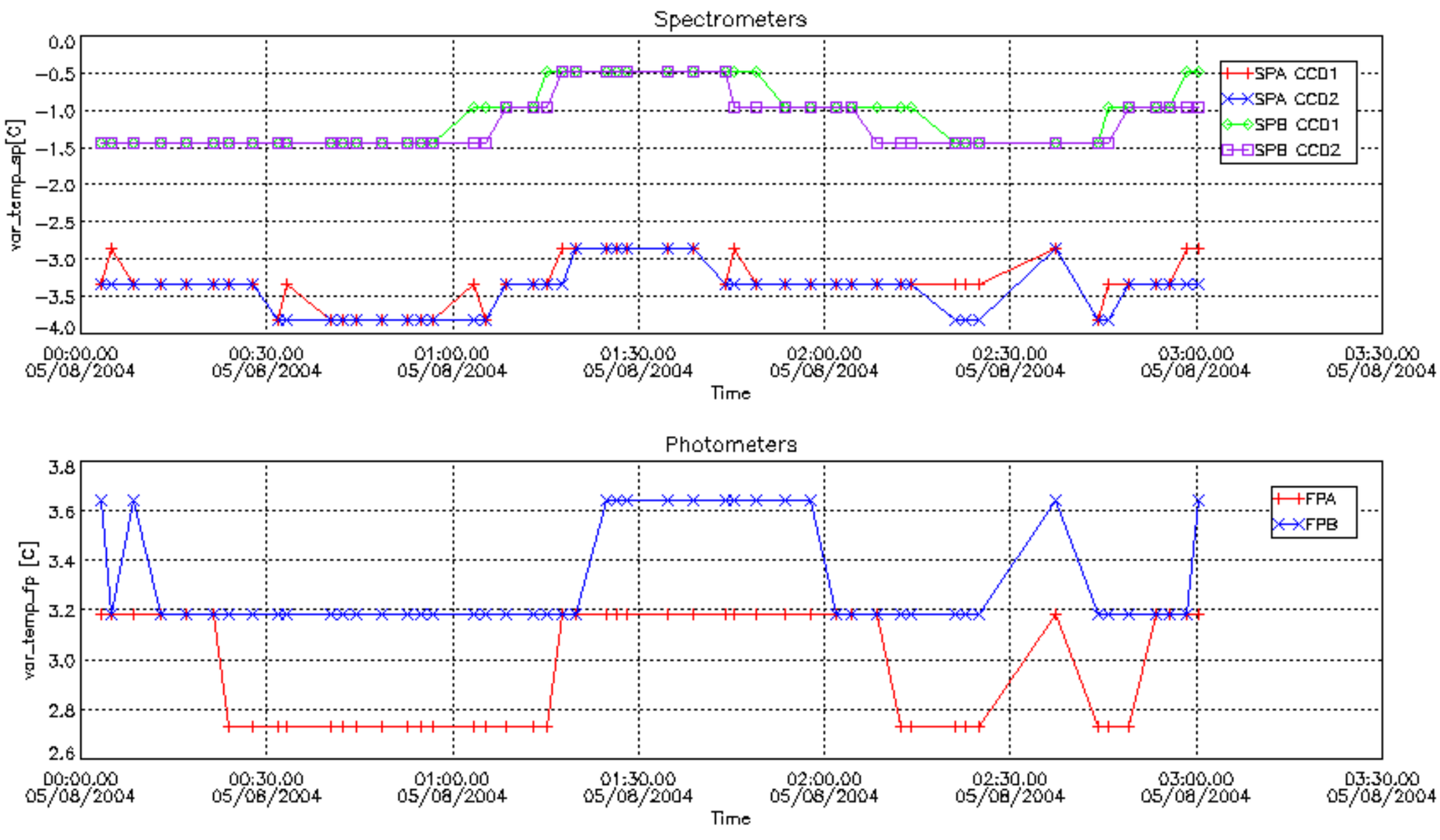


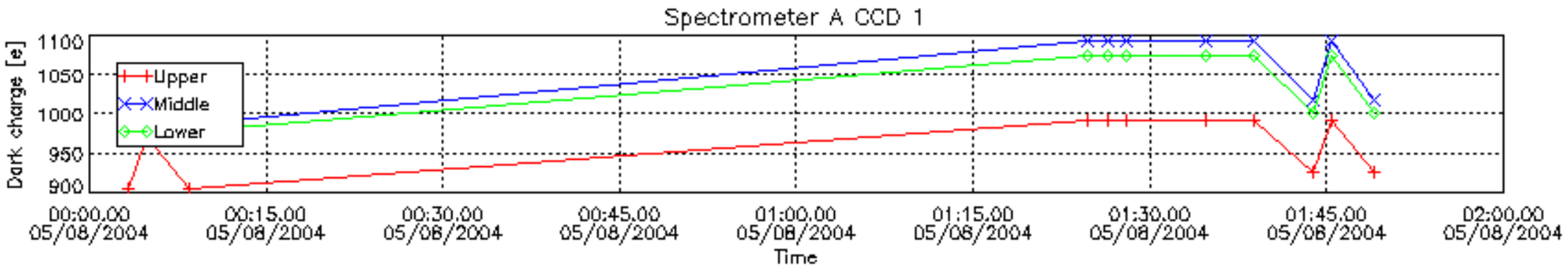


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1460.9	1447.2	1461.7	1447.7
St. deviation:	4.5723	5.4774	6.9540	7.8814
Maximum:	1513.0	1560.0	1514.0	1505.0
Minimum:	1454.0	1432.0	1442.0	1440.0
Number of data:	14400.	14400.	30850.	30850.


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 05/08/2004
00:30.00 05/08/2004
01:00.00 05/08/2004
01:30.00 05/08/2004
02:00.00 05/08/2004
02:30.00 05/08/2004
03:00.00 05/08/2004
03:30.00 05/08/2004
Time
Photometers
var_temp_fp [C]
3.8
3.6
3.4
3.2
3.0
2.8
2.6
FPA
FPB
00:00.00 05/08/2004
00:30.00 05/08/2004
01:00.00 05/08/2004
01:30.00 05/08/2004
02:00.00 05/08/2004
02:30.00 05/08/2004
03:00.00 05/08/2004
03:30.00 05/08/2004
Time


Spectrometer A CCD 1
Dark charge [e]
1100
1050
1000
950
900
Upper
Middle
Lower
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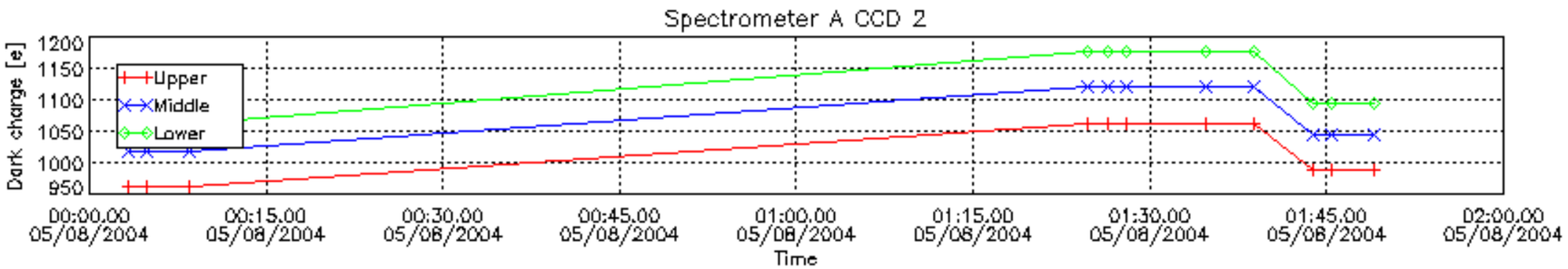
00:15.00 05/08/2004
00:30.00 05/08/2004
00:45.00 05/08/2004
01:00.00 05/08/2004
01:15.00 05/08/2004
01:30.00 05/08/2004
01:45.00 05/08/2004
02:00.00 05/08/2004
Time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Dark charge [e]
1200
1150
1100
1050
1000
950
Upper
Middle
Lower
00:00.00 05/08/2004
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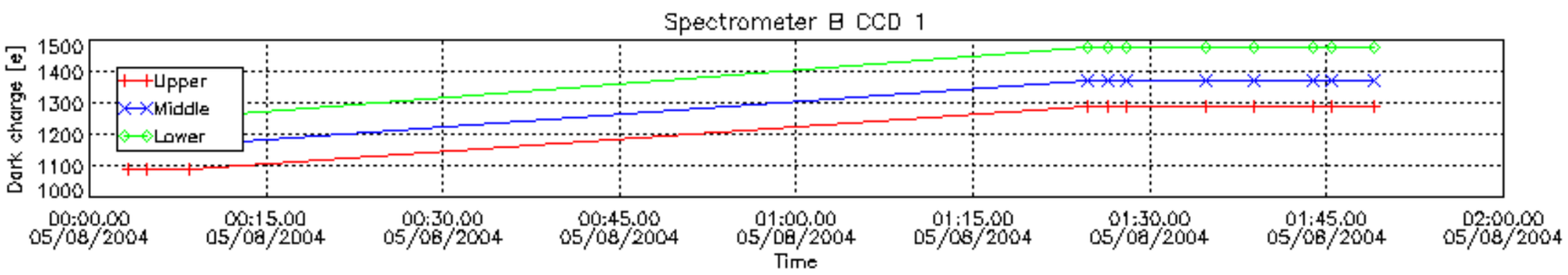
00:30.00 05/08/2004
00:45.00 05/08/2004
01:00.00 05/08/2004
01:15.00 05/08/2004
01:30.00 05/08/2004
01:45.00 05/08/2004
02:00.00 05/08/2004
Time


Spectrometer B CCD 1
Dark charge [e]
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1400
1300
1200
1100
1000
Upper
Middle
Lower
00:00.00 05/08/2004
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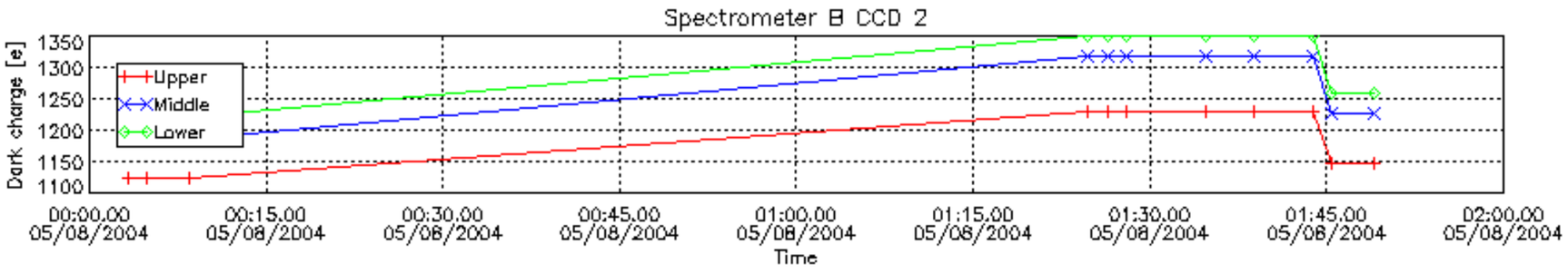
00:30.00 05/08/2004
00:45.00 05/08/2004
01:00.00 05/08/2004
01:15.00 05/08/2004
01:30.00 05/08/2004
01:45.00 05/08/2004
02:00.00 05/08/2004
Time


Spectrometer B CCD 2
Dark charge [e]
1350
1300
1250
1200
1150
1100
Upper
Middle
Lower
00:00.00 05/08/2004
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00:45.00 05/08/2004
01:00.00 05/08/2004
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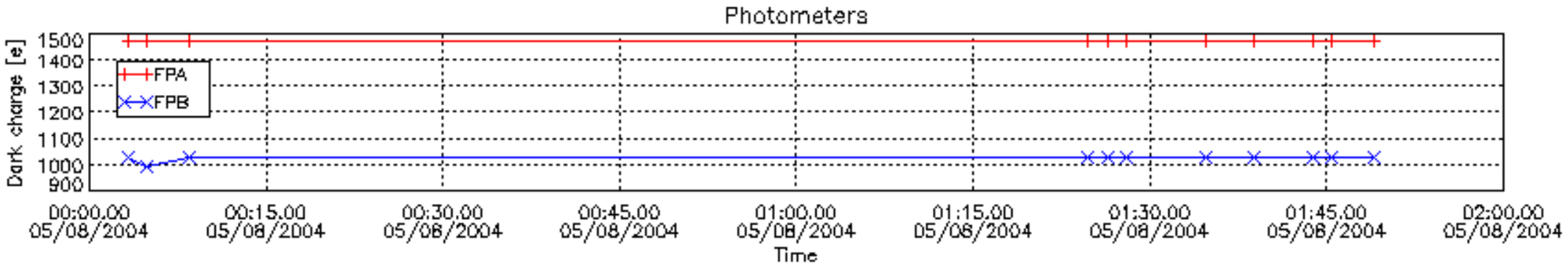
01:30.00 05/08/2004
01:45.00 05/08/2004
02:00.00 05/08/2004
Time


Photometers
Dark charge [e]
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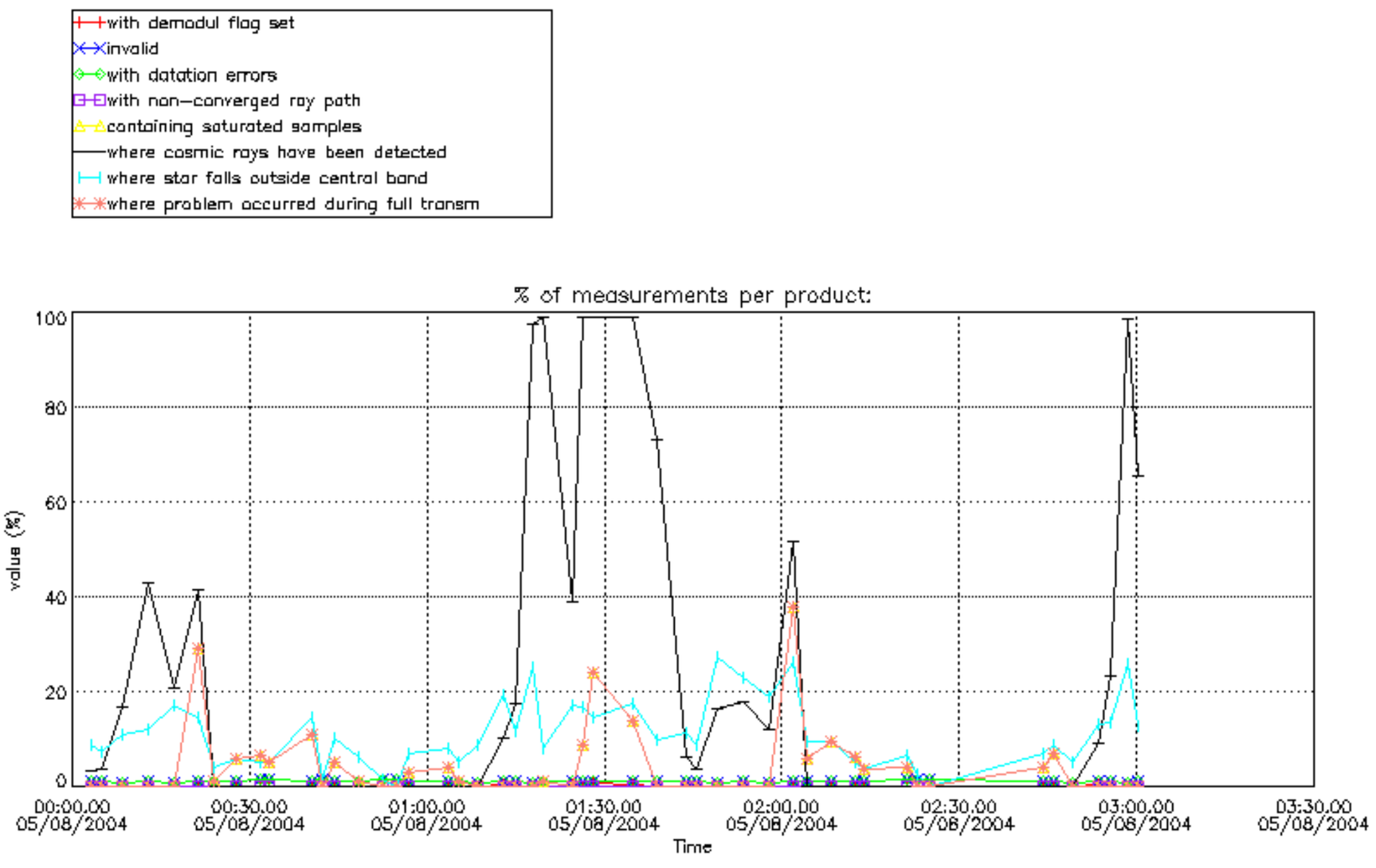
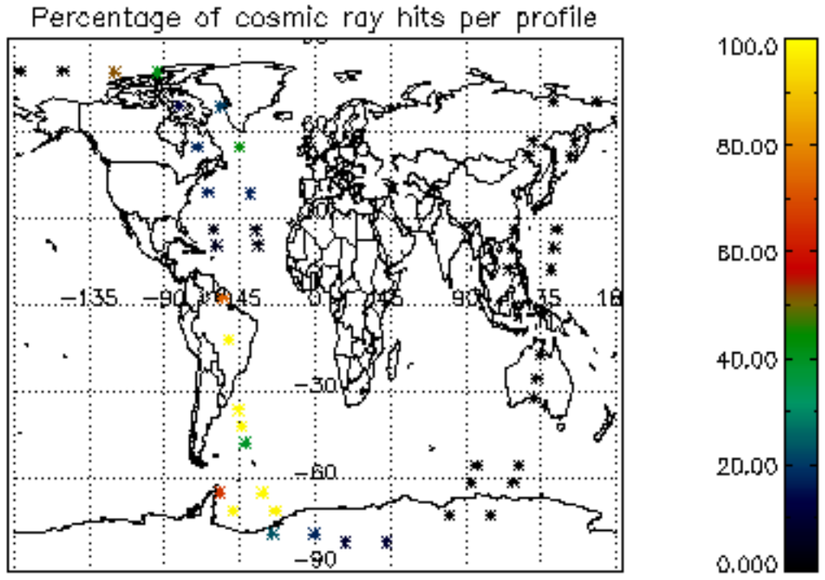
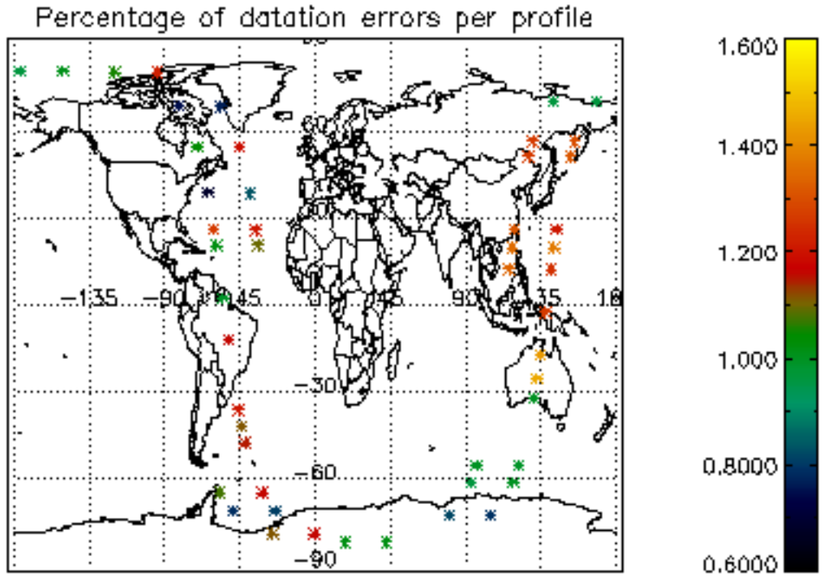
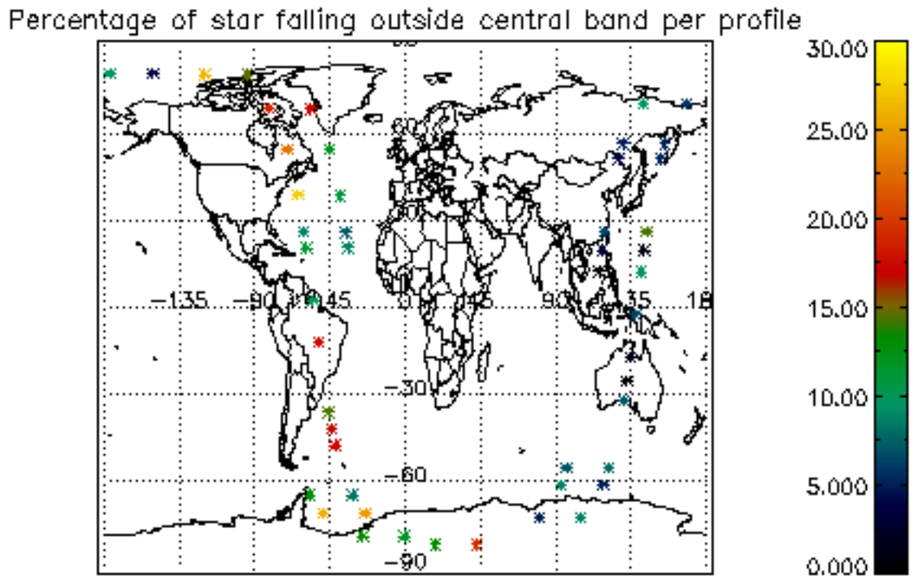
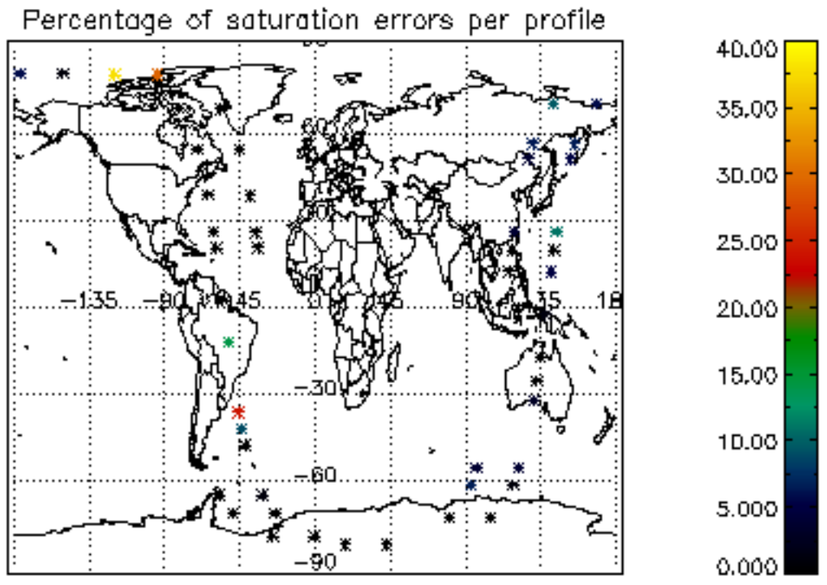
1400
1300
1200
1100
1000
900
FPA
FPB
00:00.00 05/08/2004
00:15.00 05/08/2004
00:30.00 05/08/2004
00:45.00 05/08/2004
01:00.00 05/08/2004
01:15.00 05/08/2004
01:30.00 05/08/2004
01:45.00 05/08/2004
02:00.00 05/08/2004
Time


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 05/08/2004
00:30.00 05/08/2004
01:00.00 05/08/2004
01:30.00 05/08/2004
02:00.00 05/08/2004
02:30.00 05/08/2004
03:00.00 05/08/2004
03:30.00 05/08/2004
Time

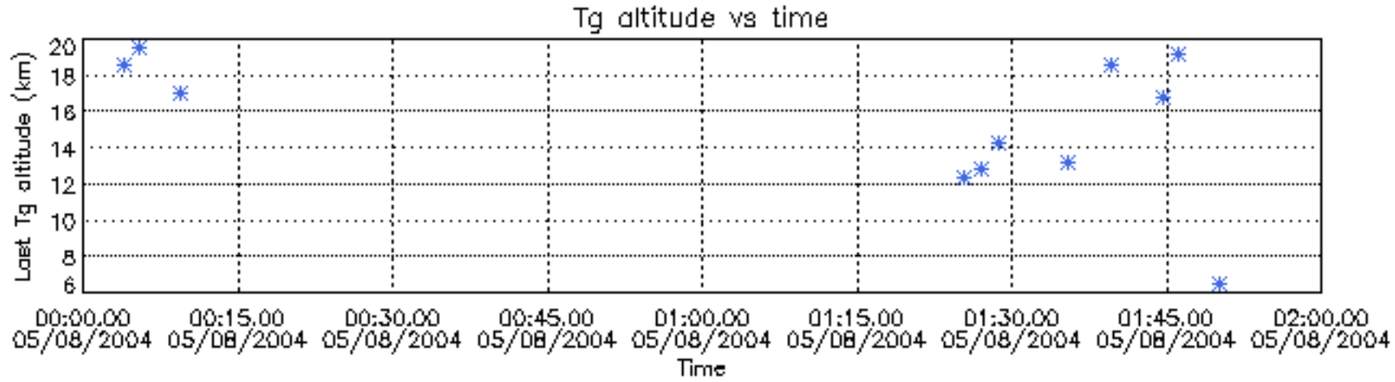

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

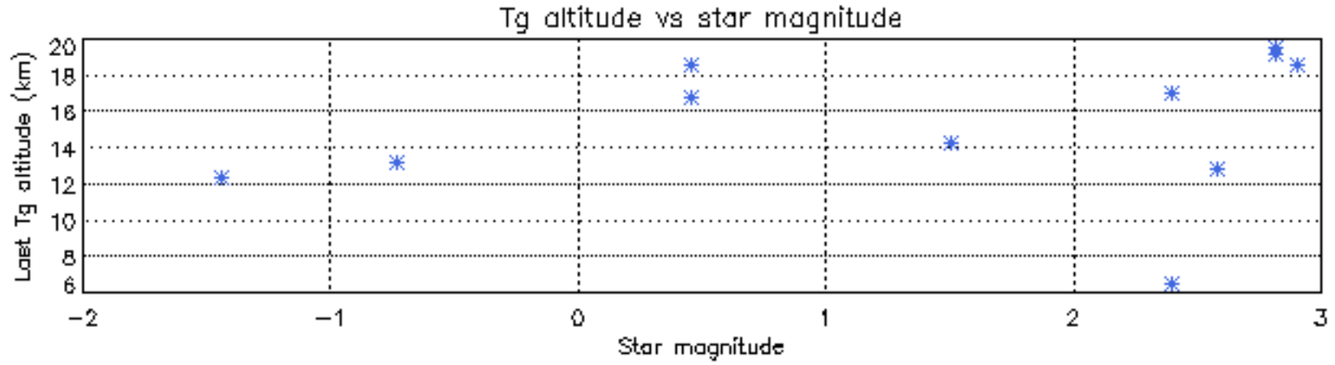

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
−135
−90
−30
−60
−90

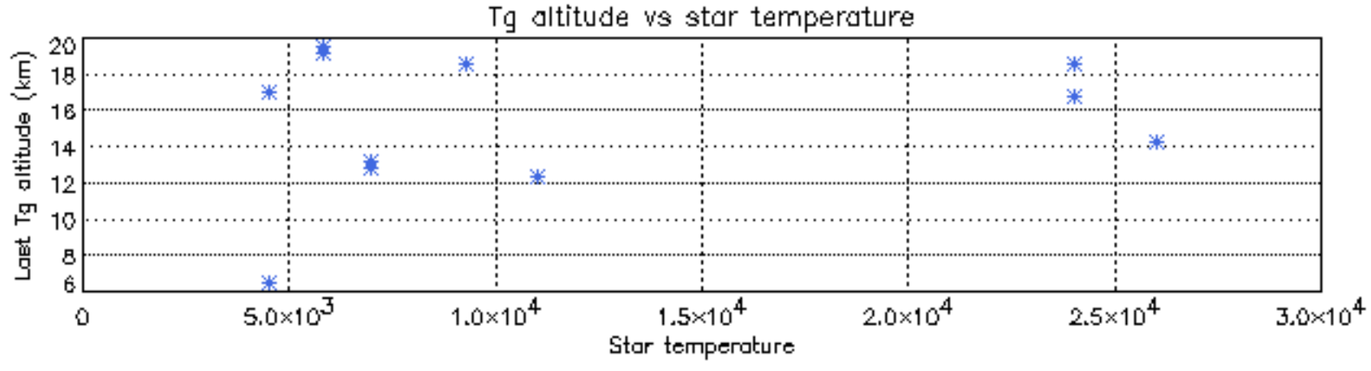

Percentage of star falling outside central band per profile
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90

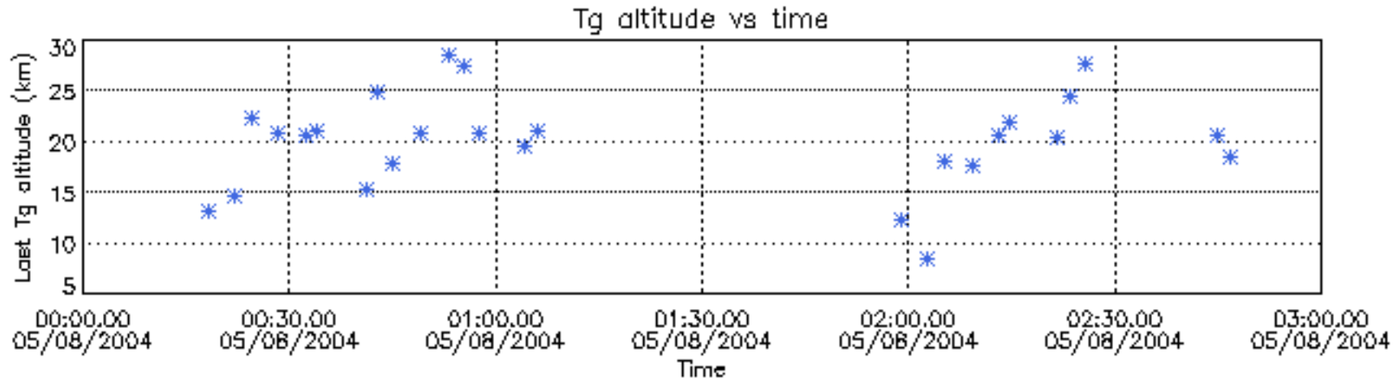
Tangent altitude at which the star is lost

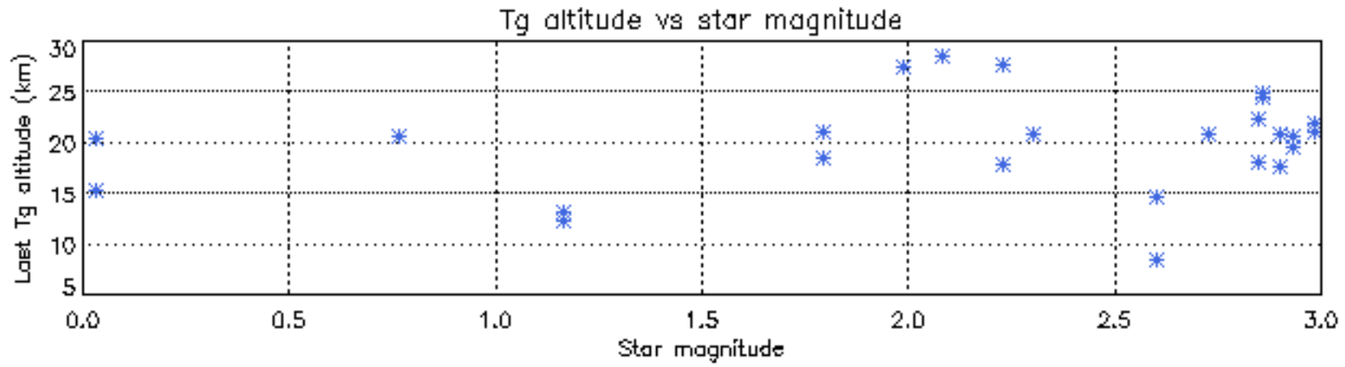


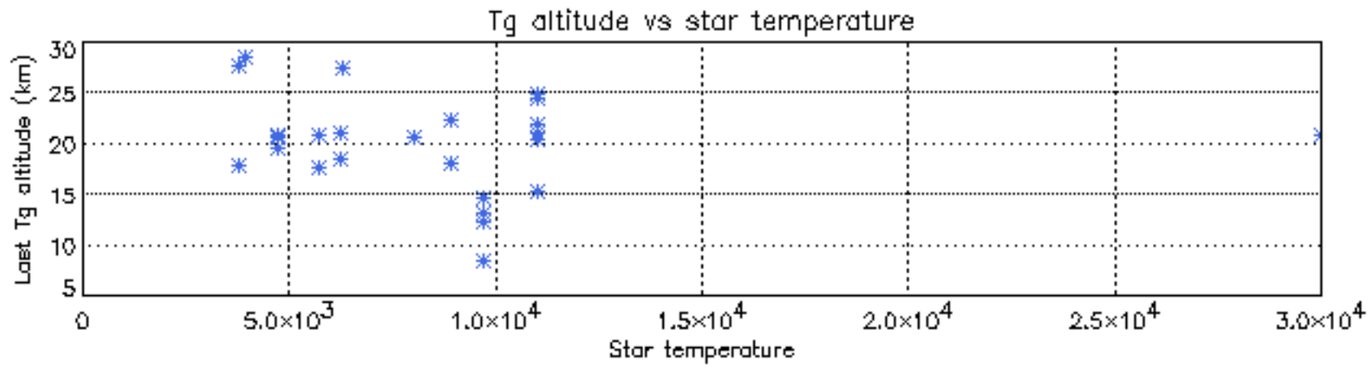




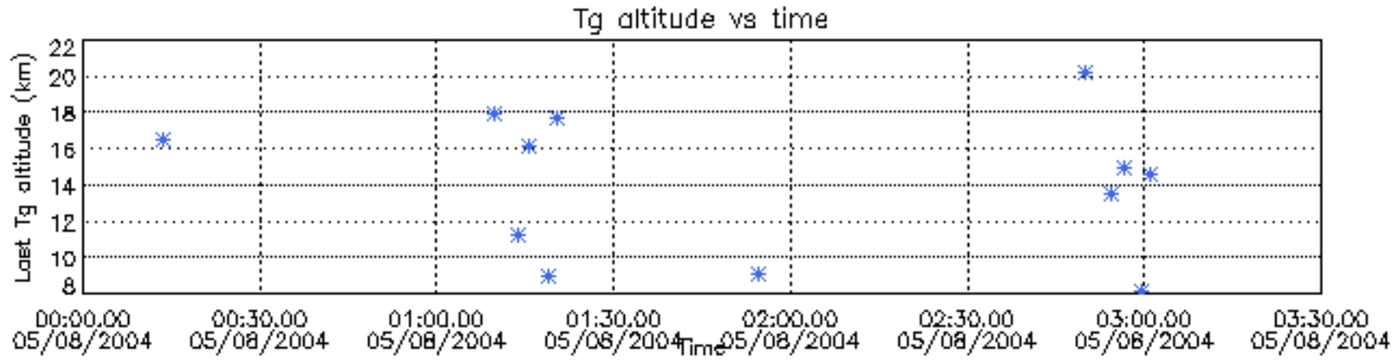
Tangent altitude at which the star is lost

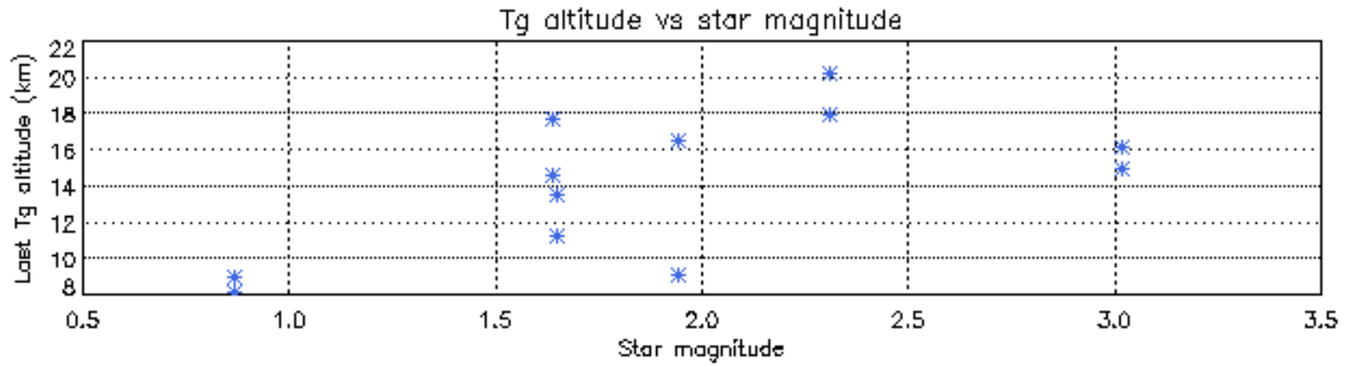


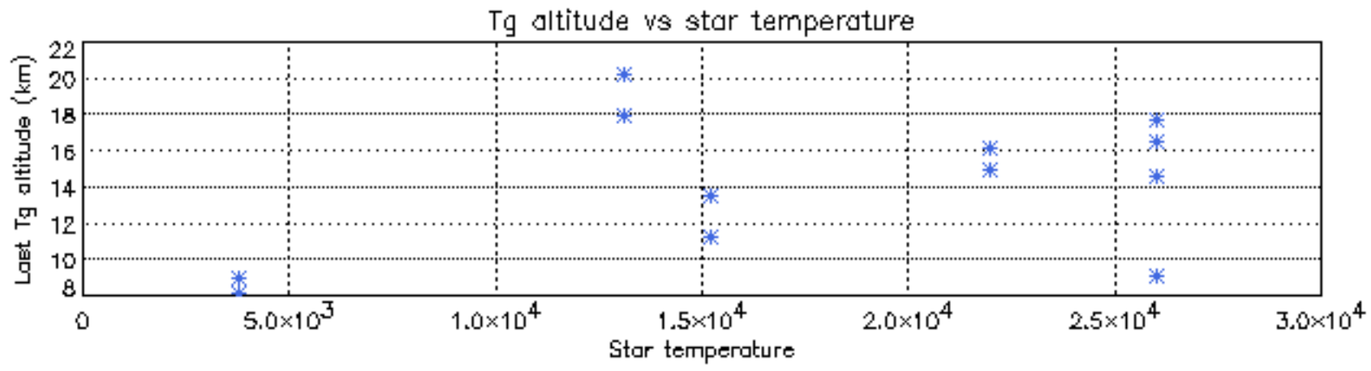




Tangent altitude at which the star is lost







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   4; -209.3; 01-AUG-2004 00:19:57; Dark ; 45.5;   2;   Alp Car ;-0.74; 7000;occ; 91;   0;12652
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   6; 424.1; 01-AUG-2004 00:30:30; Dark ; 40.5; 135;   Bet Hyi ; 2.82; 5800;occ; 81;   0;12653
   7; 592.4; 01-AUG-2004 00:33:19; Dark ; 60.5;   84;   Alp Phe ; 2.40; 4500;occ; 121;   0;12653
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   9; 919.0; 01-AUG-2004 00:38:45; Dark ; 50.0;   31;   Alp Gru ; 1.73; 15200;occ; 100;   0;12653
  10; 1133.7; 01-AUG-2004 00:42:20; Dark ; 68.5;   18; 24Alp PsA ; 1.17; 9700;occ; 137;   0;12653
  11; 1359.9; 01-AUG-2004 00:46:06; Dark ; 44.5;   38; 20Eps Sgr ; 1.84; 11000;occ; 89;   0;12653
  12; 1438.3; 01-AUG-2004 00:47:24; Bright; 40.0; 116; 19Del Sgr ; 2.70; 4100;occ; 80;   0;12653
  13; 1568.6; 01-AUG-2004 00:49:35; Bright; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108;   0;12653
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  18; 2691.7; 01-AUG-2004 01:08:18; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76;   0;12653
  19; 2794.9; 01-AUG-2004 01:10:01; Bright; 40.0;   69; 33Gam Dra ; 2.23; 3800;occ; 80;   0;12653
  20; 3036.2; 01-AUG-2004 01:14:02; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71;   0;12653
  21; 3282.9; 01-AUG-2004 01:18:09; Bright; 37.5;   60; 7Bet UMi ; 2.08; 3950;occ; 75;   0;12653
  22; 3438.2; 01-AUG-2004 01:20:44; Bright; 38.0;   49; 1Alp UMi ; 1.99; 6300;occ; 76;   0;12653
  23; 3592.9; 01-AUG-2004 01:23:19; Bright; 50.5;   76; 27Gam Cas ; 2.30; 30000;occ; 101;   0;12653
  24; 3976.0; 01-AUG-2004 01:29:42; Bright; 68.5; 160; 23Gam Per ; 2.93; 4700;occ; 137;   0;12653
  25; 4152.2; 01-AUG-2004 01:32:38; Bright; 80.5;   73; 57Gam1And ; 2.26; 13100;occ; 161;   0;12653
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  13; 1438.4; 01-AUG-2004 02:28:00; Bright; 42.0; 116; 19Del Sgr ; 2.70; 4100;occ; 84;   0;12654
  14; 1568.7; 01-AUG-2004 02:30:11; Bright; 53.5; 142; 49Del Cap ; 2.85; 8900;occ; 107;   0;12654
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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
   8;-2744.7; 02-AUG-2004 12:30:52; Bright;  40.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  80;   0;12674
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 Problem occurred when reading packet number 3241!
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   3;-3979.8; 02-AUG-2004 13:50:52; Bright;  38.5;   11; 53Alp Aql  ; 0.76;  8000;occ;  77;   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
  29;-144768406.0; 01-JAN-2000 01:30:26; Dark  ;  65.0;   84;   Alp Phe  ; 2.40;  4500;occ; 130;   0;12675
  30;-144768297.3; 01-JAN-2000 01:32:15; Dark  ;  45.5;  148;   Alp Tuc  ; 2.88;  4100;occ;  91;   0;12675
  31;-144768092.7; 01-JAN-2000 01:35:40; Dark  ;  52.0;   31;   Alp Gru  ; 1.73; 15200;occ; 104;  15;12675
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  8; 1802.5; 09-AUG-2004 21:49:30; Bright; 47.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 94;   0;12780
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