GOMOS Daily Report 25-OCT-2005

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	27OCT2005 05:06:37

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (25OCT2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (26OCT2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

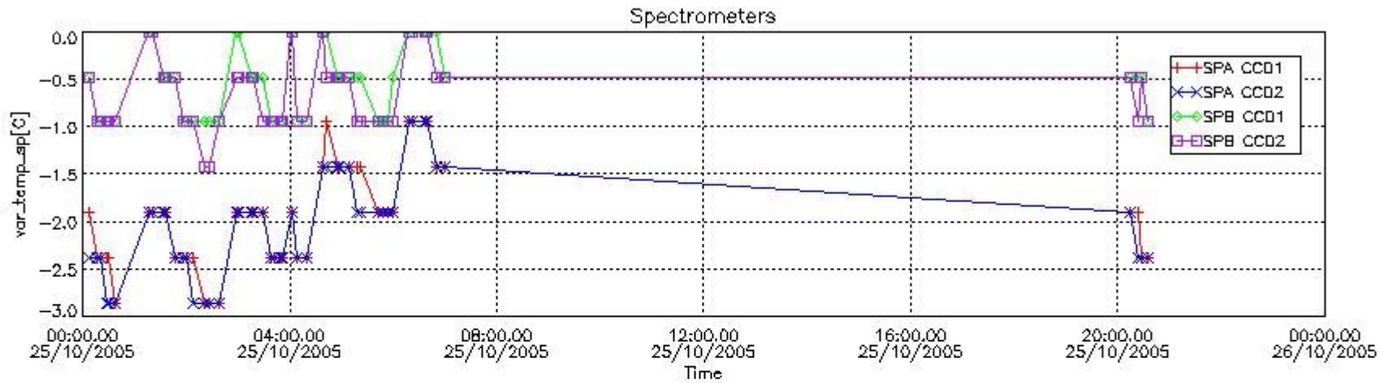
2.1 Level 0 products arrived in PCF (see template here)

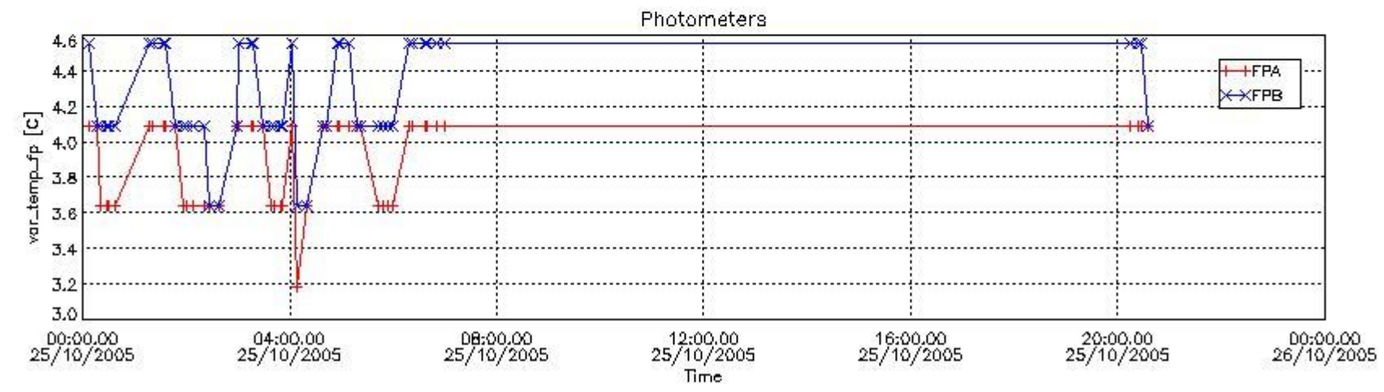
2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20051025_000706_000000462042_00002_19094_0004.N1	25-OCT-2005 00:07:06	Bright	46.000	52	16Bet Cet	2.0370	4500.0	92	19094	No
2	GOM_TRA_1PNPDE20051025_001635_000000362042_00002_19094_0005.N1	25-OCT-2005 00:16:35	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	19094	No
3	GOM_TRA_1PNPDE20051025_002028_000000362042_00002_19094_0006.N1	25-OCT-2005 00:20:28	Bright	35.500	58	21Alp And	2.0730	11000.	71	19094	No
4	GOM_TRA_1PNPDE20051025_002809_000000362042_00002_19094_0007.N1	25-OCT-2005 00:28:09	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	19094	No
5	GOM_TRA_1PNPDE20051025_002925_000000382042_00002_19094_0008.N1	25-OCT-2005 00:29:25	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	19094	No
6	GOM_TRA_1PNPDE20051025_003723_000000372042_00002_19094_0009.N1	25-OCT-2005 00:37:23	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	19094	No
7	GOM_TRA_1PNPDE20051025_011726_000000382042_00002_19094_0000.N1	25-OCT-2005 01:17:26	Dark	38.000	113	Mu Vel	2.6920	5000.0	76	19094	No
8	GOM_TRA_1PNPDE20051025_012053_000000382042_00003_19095_0001.N1	25-OCT-2005 01:20:53	Dark	38.000	91	Kap Vel	2.4900	26000.	76	19095	No
9	GOM_TRA_1PNPDE20051025_013454_000000372042_00003_19095_0002.N1	25-OCT-2005 01:34:54	Dark	37.000	143	Alp Hyi	2.8570	7200.0	74	19095	No
10	GOM_TRA_1PNPDE20051025_013618_000000412042_00003_19095_0003.N1	25-OCT-2005 01:36:18	Dark	40.500	9	Alp Eri	0.45300	24000.	81	19095	No
11	GOM_TRA_1PNPDE20051025_014742_000000422042_00003_19095_0004.N1	25-OCT-2005 01:47:42	Bright	41.500	52	16Bet Cet	2.0370	4500.0	83	19095	No
12	GOM_TRA_1PNPDE20051025_015711_000000342042_00003_19095_0005.N1	25-OCT-2005 01:57:11	Bright	34.000	140	88Gam Peg	2.8340	26000.	68	19095	No
13	GOM_TRA_1PNPDE20051025_020104_000000372042_00003_19095_0006.N1	25-OCT-2005 02:01:04	Bright	37.000	58	21Alp And	2.0730	11000.	74	19095	No
14	GOM_TRA_1PNPDE20051025_020844_000000362042_00003_19095_0007.N1	25-OCT-2005 02:08:44	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	19095	No
15	GOM_TRA_1PNPDE20051025_022129_000000362042_00003_19095_0000.N1	25-OCT-2005 02:21:29	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	19095	No
16	GOM_TRA_1PNPDE20051025_022728_000000362042_00003_19095_0001.N1	25-OCT-2005 02:27:28	Bright	36.000	32	77Eps UMa	1.7630	11000.	72	19095	No
17	GOM_TRA_1PNPDE20051025_023824_000000542042_00003_19095_0002.N1	25-OCT-2005 02:38:24	Bright	54.000	96	68Del Leo	2.5600	9300.0	108	19095	No
18	GOM_TRA_1PNPDE20051025_025802_000000382042_00003_19095_0003.N1	25-OCT-2005 02:58:02	Dark	37.500	113	Mu Vel	2.6920	5000.0	75	19095	No
19	GOM_TRA_1PNPDE20051025_030130_000000382042_00004_19096_0004.N1	25-OCT-2005 03:01:30	Dark	38.000	91	Kap Vel	2.4900	26000.	76	19096	No
20	GOM_TRA_1PNPDE20051025_031530_000000372042_00004_19096_0005.N1	25-OCT-2005 03:15:30	Dark	37.000	143	Alp Hyi	2.8570	7200.0	74	19096	No
21	GOM_TRA_1PNPDE20051025_031654_000000452042_00004_19096_0006.N1	25-OCT-2005 03:16:54	Dark	45.000	9	Alp Eri	0.45300	24000.	90	19096	No
22	GOM_TRA_1PNPDE20051025_032818_000000382042_00004_19096_0007.N1	25-OCT-2005 03:28:18	Bright	38.000	52	16Bet Cet	2.0370	4500.0	76	19096	No
23	GOM_TRA_1PNPDE20051025_033747_000000352042_00004_19096_0008.N1	25-OCT-2005 03:37:47	Bright	34.500	140	88Gam Peg	2.8340	26000.	69	19096	No
24	GOM_TRA_1PNPDE20051025_034140_000000362042_00004_19096_0009.N1	25-OCT-2005 03:41:40	Bright	36.000	58	21Alp And	2.0730	11000.	72	19096	No
25	GOM_TRA_1PNPDE20051025_034920_000000362042_00004_19096_0010.N1	25-OCT-2005 03:49:20	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	19096	No
26	GOM_TRA_1PNPDE20051025_035036_000000372042_00004_19096_0011.N1	25-OCT-2005 03:50:36	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	19096	No
27	GOM_TRA_1PNPDE20051025_040206_000000362042_00004_19096_0000.N1	25-OCT-2005 04:02:06	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	19096	No
28	GOM_TRA_1PNPDE20051025_040804_000000372042_00004_19096_0001.N1	25-OCT-2005 04:08:04	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	19096	No
29	GOM_TRA_1PNPDE20051025_041900_000000362042_00004_19096_0002.N1	25-OCT-2005 04:19:00	Bright	36.000	96	68Del Leo	2.5600	9300.0	72	19096	No
30	GOM_TRA_1PNPDE20051025_043839_000000402042_00004_19096_0003.N1	25-OCT-2005 04:38:39	Dark	39.500	113	Mu Vel	2.6920	5000.0	79	19096	No
31	GOM_TRA_1PNPDE20051025_044206_000000382042_00005_19097_0004.N1	25-OCT-2005 04:42:06	Dark	37.500	91	Kap Vel	2.4900	26000.	75	19097	No
32	GOM_TRA_1PNPDE20051025_045606_000000382042_00005_19097_0005.N1	25-OCT-2005 04:56:06	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	19097	No
33	GOM_TRA_1PNPDE20051025_045731_000000392042_00005_19097_0006.N1	25-OCT-2005 04:57:31	Dark	38.500	9	Alp Eri	0.45300	24000.	77	19097	No
34	GOM_TRA_1PNPDE20051025_050854_000000392042_00005_19097_0007.N1	25-OCT-2005 05:08:54	Bright	39.000	52	16Bet Cet	2.0370	4500.0	78	19097	No
35	GOM_TRA_1PNPDE20051025_051824_000000342042_00005_19097_0008.N1	25-OCT-2005 05:18:24	Bright	34.000	140	88Gam Peg	2.8340	26000.	68	19097	No
36	GOM_TRA_1PNPDE20051025_052217_000000352042_00005_19097_0009.N1	25-OCT-2005 05:22:17	Bright	34.500	58	21Alp And	2.0730	11000.	69	19097	No
37	GOM_TRA_1PNPDE20051025_054242_000000372042_00005_19097_0000.N1	25-OCT-2005 05:42:42	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	19097	No
38	GOM_TRA_1PNPDE20051025_054841_000000362042_00005_19097_0001.N1	25-OCT-2005 05:48:41	Bright	35.500	32	77Eps UMa	1.7630	11000.	71	19097	No
39	GOM_TRA_1PNPDE20051025_055330_000000322042_00005_19097_0002.N1	25-OCT-2005 05:53:30	Bright	32.000	152	12Alp2CVn	2.8900	11000.	64	19097	No
40	GOM_TRA_1PNPDE20051025_055937_000000362042_00005_19097_0003.N1	25-OCT-2005 05:59:37	Bright	35.500	96	68Del Leo	2.5600	9300.0	71	19097	No
41	GOM_TRA_1PNPDE20051025_061915_000000412042_00005_19097_0004.N1	25-OCT-2005 06:19:15	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	19097	No
42	GOM_TRA_1PNPDE20051025_062243_000000402042_00006_19098_0005.N1	25-OCT-2005 06:22:43	Dark	40.000	91	Kap Vel	2.4900	26000.	80	19098	No
43	GOM_TRA_1PNPDE20051025_063642_000000372042_00006_19098_0006.N1	25-OCT-2005 06:36:42	Dark	37.000	143	Alp Hyi	2.8570	7200.0	74	19098	No
44	GOM_TRA_1PNPDE20051025_063807_000000482042_00006_19098_0007.N1	25-OCT-2005 06:38:07	Dark	48.000	9	Alp Eri	0.45300	24000.	96	19098	No
45	GOM_TRA_1PNPDE20051025_064931_000000412042_00006_19098_0008.N1	25-OCT-2005 06:49:31	Bright	40.500	52	16Bet Cet	2.0370	4500.0	81	19098	No
46	GOM_TRA_1PNPDE20051025_065900_000000342042_00006_19098_0009.N1	25-OCT-2005 06:59:00	Bright	34.000	140	88Gam Peg	2.8340	26000.	68	19098	No

47	GOM_TRA_1PNPDE20051025_201419_000000442042_00014_19106_0000.N1	25-OCT-2005 20:14:19	Bright	43.500	52	16Bet Cet	2.0370	4500.0	87	19106	No
48	GOM_TRA_1PNPDE20051025_202348_000000342042_00014_19106_0001.N1	25-OCT-2005 20:23:48	Bright	34.000	140	88Gam Peg	2.8340	26000.	68	19106	No
49	GOM_TRA_1PNPDE20051025_202741_000000362042_00014_19106_0002.N1	25-OCT-2005 20:27:41	Bright	35.500	58	21Alp And	2.0730	11000.	71	19106	No
50	GOM_TRA_1PNPDE20051025_203519_000000372042_00014_19106_0003.N1	25-OCT-2005 20:35:19	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	19106	No

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





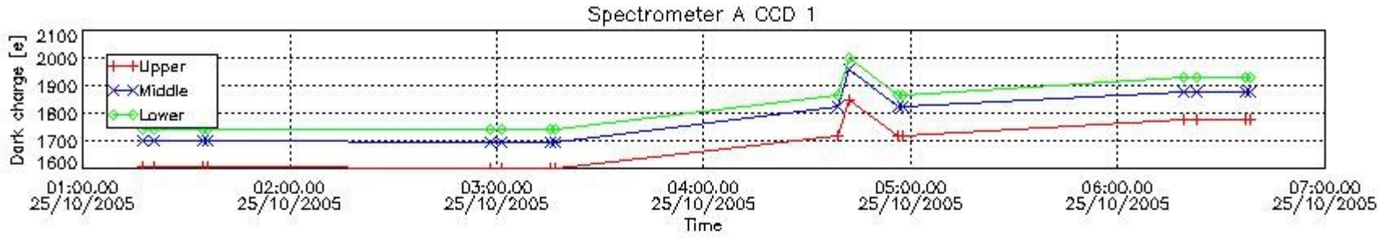
4. Overview of dark signal processing per product

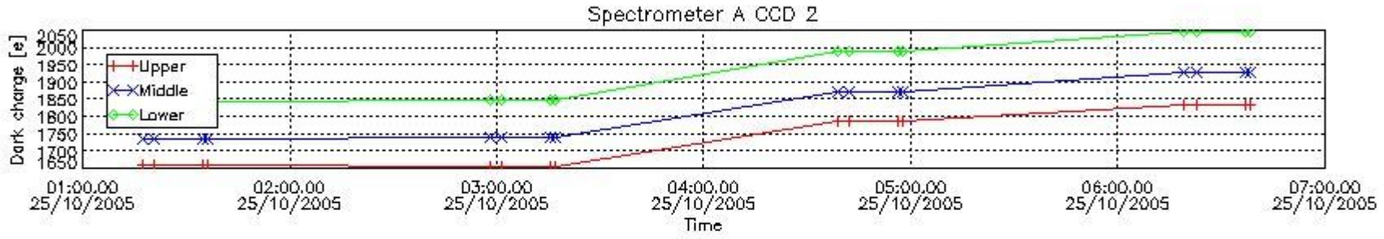
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

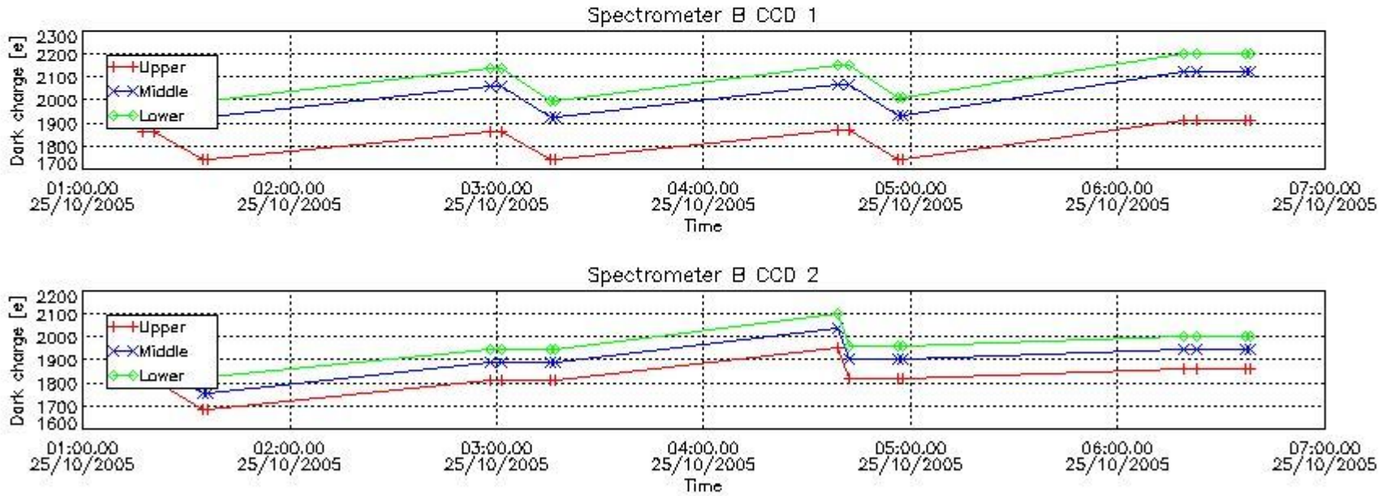
4.1 These products did not use the DSA observation for DC computation:

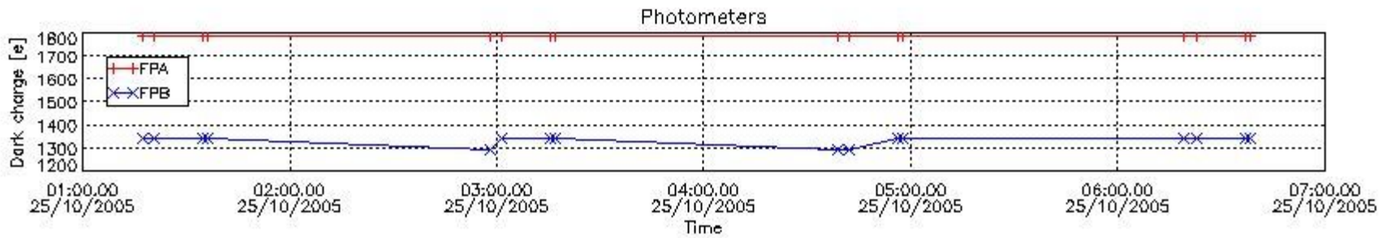
Product name	DC information
GOM_TRA_1PNPDE20051025_201419_000000442042_00014_19106_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20051025_202348_000000342042_00014_19106_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20051025_202741_000000362042_00014_19106_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20051025_203519_000000372042_00014_19106_0003.N1	DC map used (0)

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









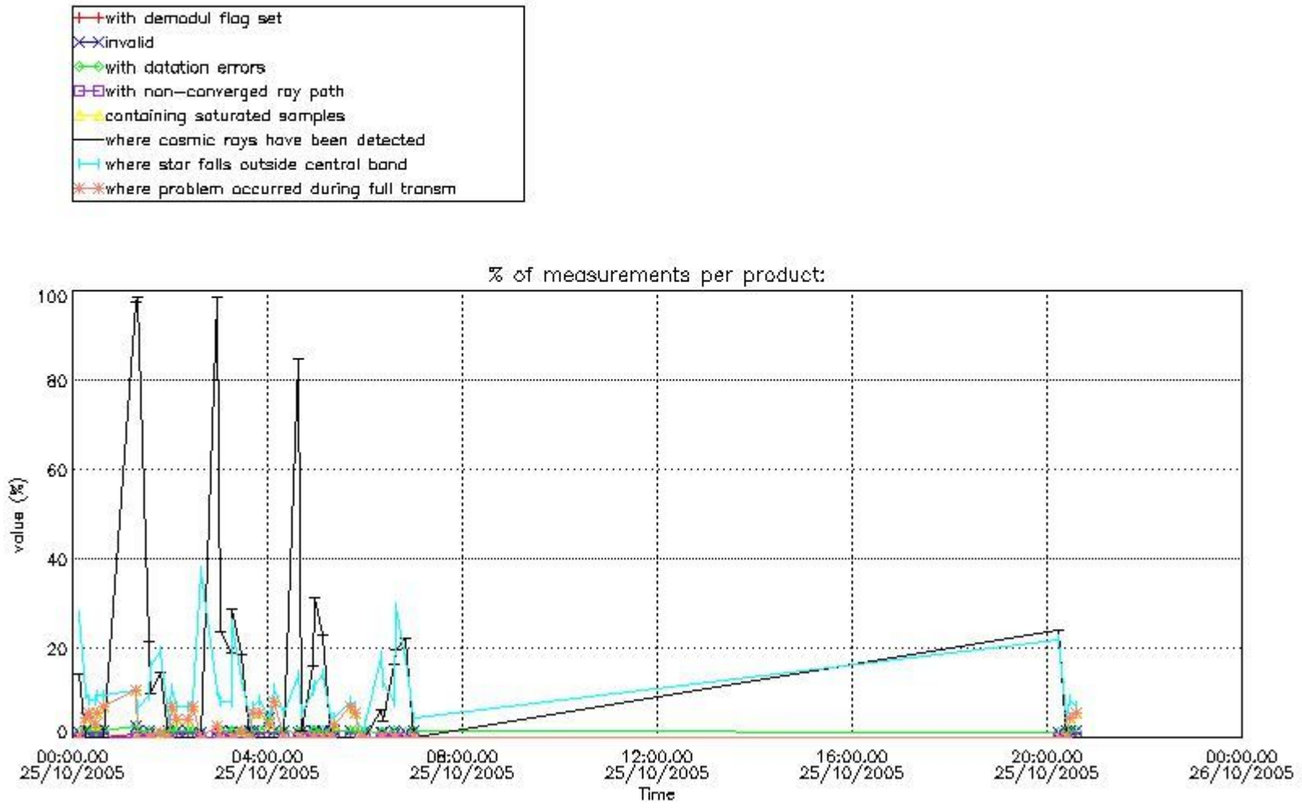
5. Demodulation flag and quality information monitoring

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:

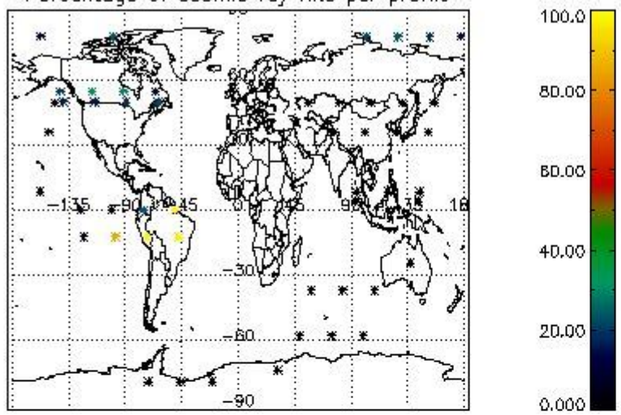
At least one measurement with demodulation flag set:	10.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

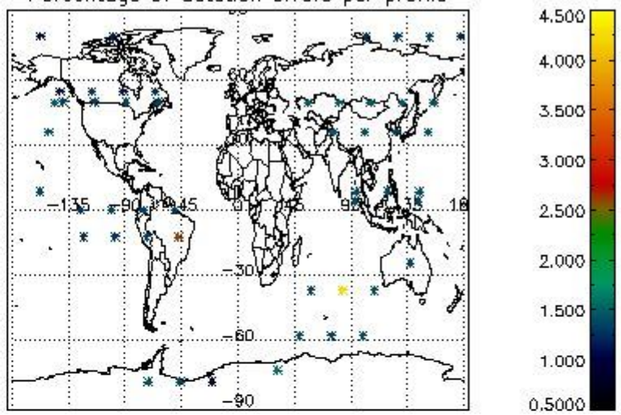


5.3 Plot quality information per product (world map)

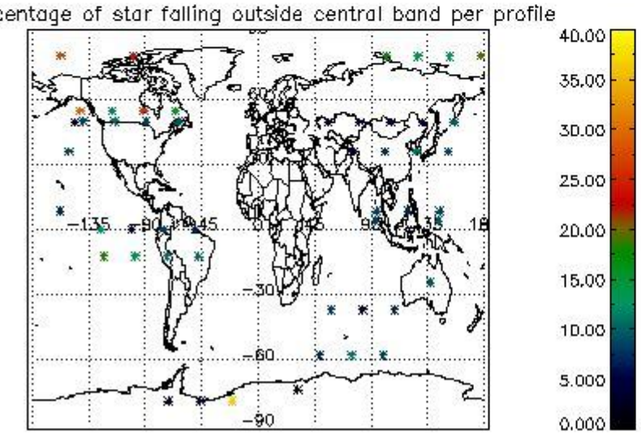
Percentage of cosmic ray hits per profile



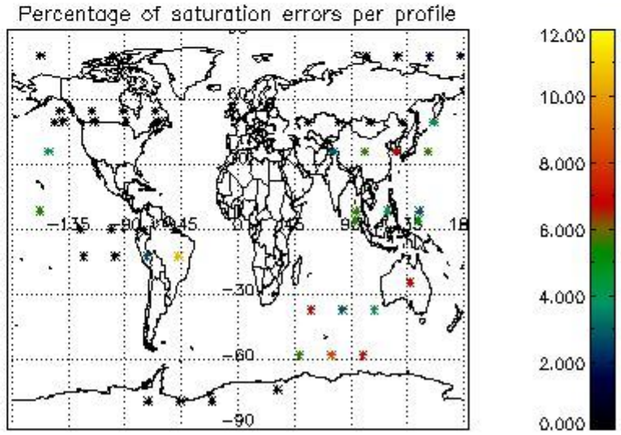
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



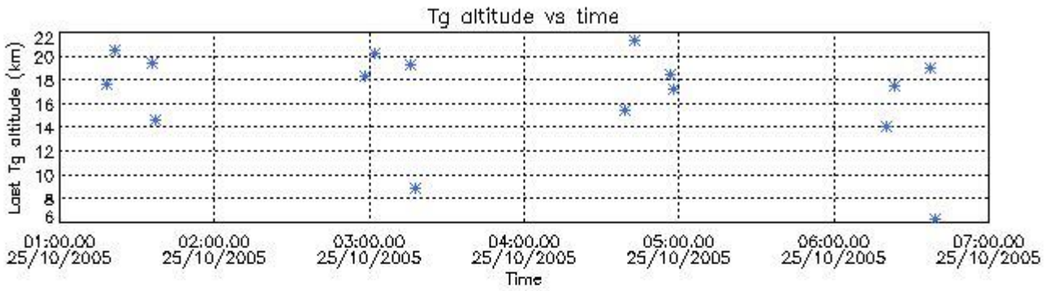
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

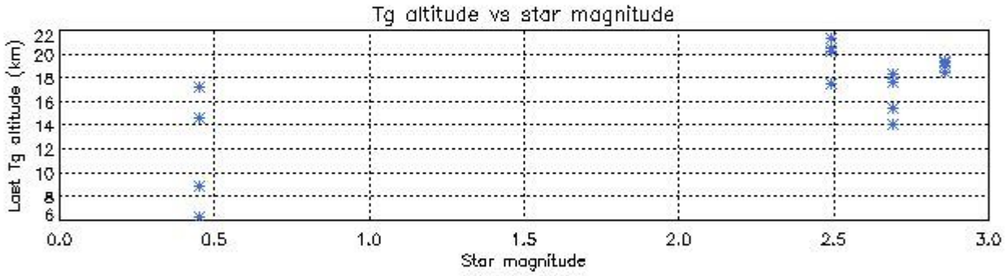
6.1 Statistics on tangent altitude lost:

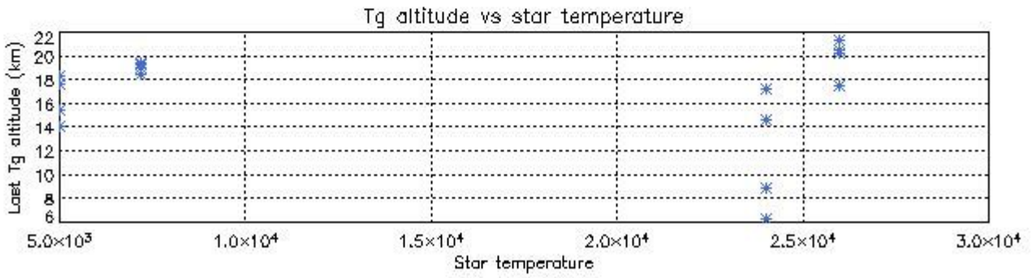
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.749	19.159	NaN
St. deviation:	4.1339	4.7757	NaN
Maximum:	21.252	29.678	NaN
Minimum:	6.2749	4.3667	NaN
Number of data:	16.000	34.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

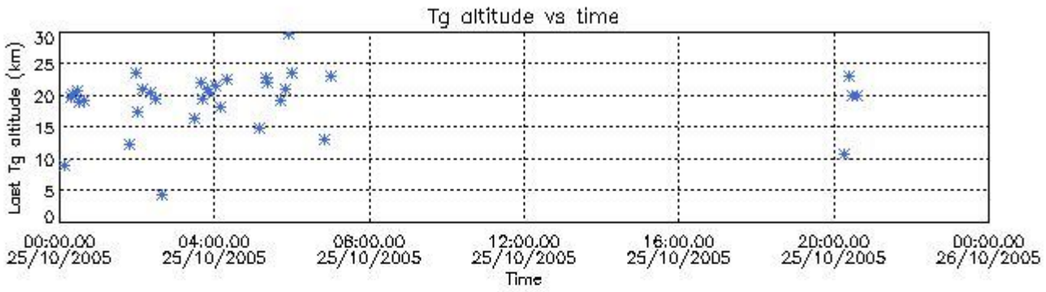


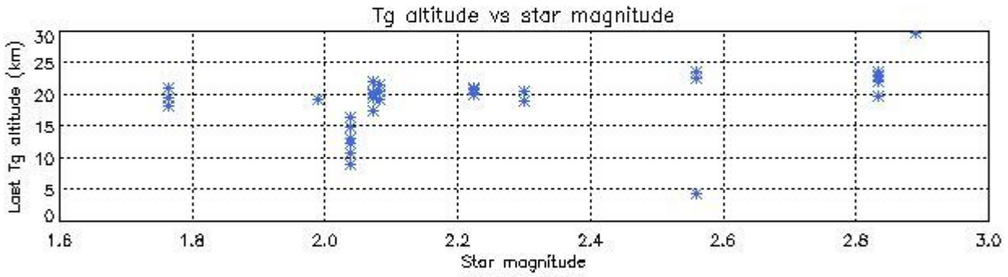


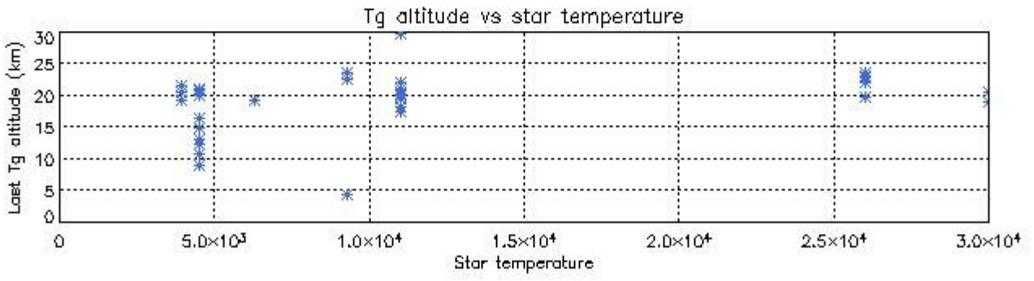


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost







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

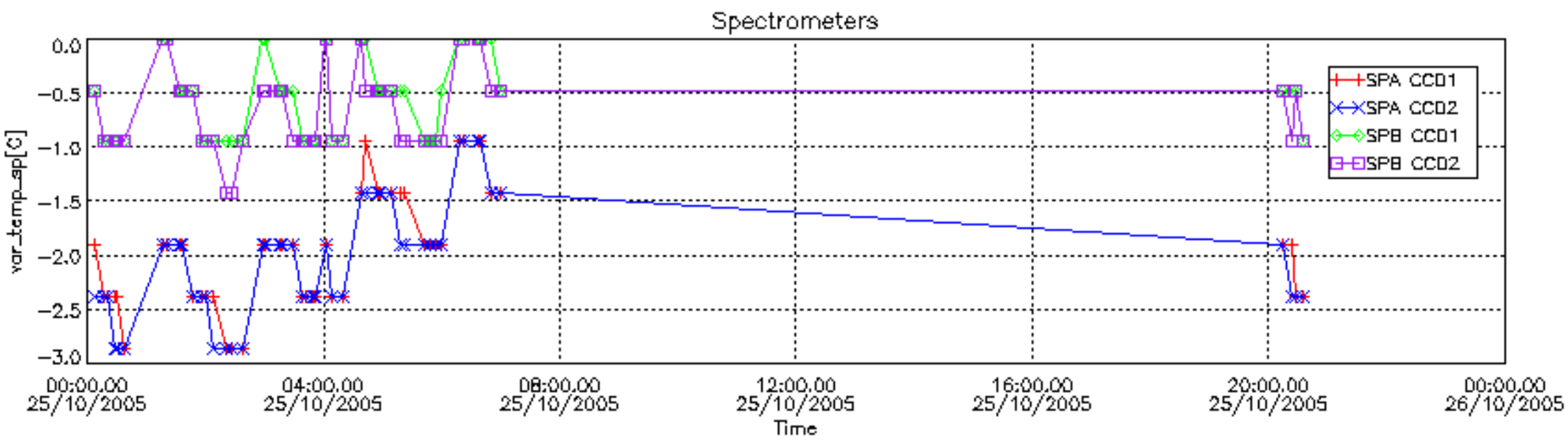
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.
Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1460.0	1447.5	1460.1	1445.7
St. deviation:	7.1631	14.860	8.1472	14.733
Maximum:	1498.0	1499.0	1525.0	1527.0
Minimum:	1453.0	1430.0	1446.0	1418.0
Number of data:	13800.	13800.	27850.	27850.

8. Auxiliary Data Files used for the production reported in section 2.2

The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	25-OCT-2005 00:07:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20051020_122240_20051017_000000_20100101_000000	1	25-OCT-2005 00:07:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	25-OCT-2005 00:07:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-OCT-2005 00:07:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	25-OCT-2005 00:07:06
ECMWF_FILE	AUX_ECF_AXNECM20051024_060317_20051024_210000_20051025_090000	1	25-OCT-2005 00:07:06
ECMWF_FILE	AUX_ECF_AXNECM20051024_192900_20051025_030000_20051025_150000	27	25-OCT-2005 04:02:06
ECMWF_FILE	AUX_ECA_AXNECM20051025_065903_20051024_210000_20051025_090000	37	25-OCT-2005 05:42:42
ECMWF_FILE	AUX_ECF_AXNECM20051025_055928_20051025_150000_20051026_030000	47	25-OCT-2005 20:14:19
OPTIONAL_ECMWF_FILE	NOT USED	1	25-OCT-2005 00:07:06
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20051024_220932_000041442042_00001_19093_0709.N1	1	25-OCT-2005 00:07:06
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20051024_232355_000057382042_00001_19093_0710.N1	7	25-OCT-2005 01:17:26
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20051025_021915_000057382042_00003_19095_0712.N1	15	25-OCT-2005 02:21:29
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20051025_040012_000057382042_00004_19096_0713.N1	37	25-OCT-2005 05:42:42
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20051024_232844_20051024_183831_20051103_200444	47	25-OCT-2005 20:14:19


Spectrometers
var_temp_sp[C]
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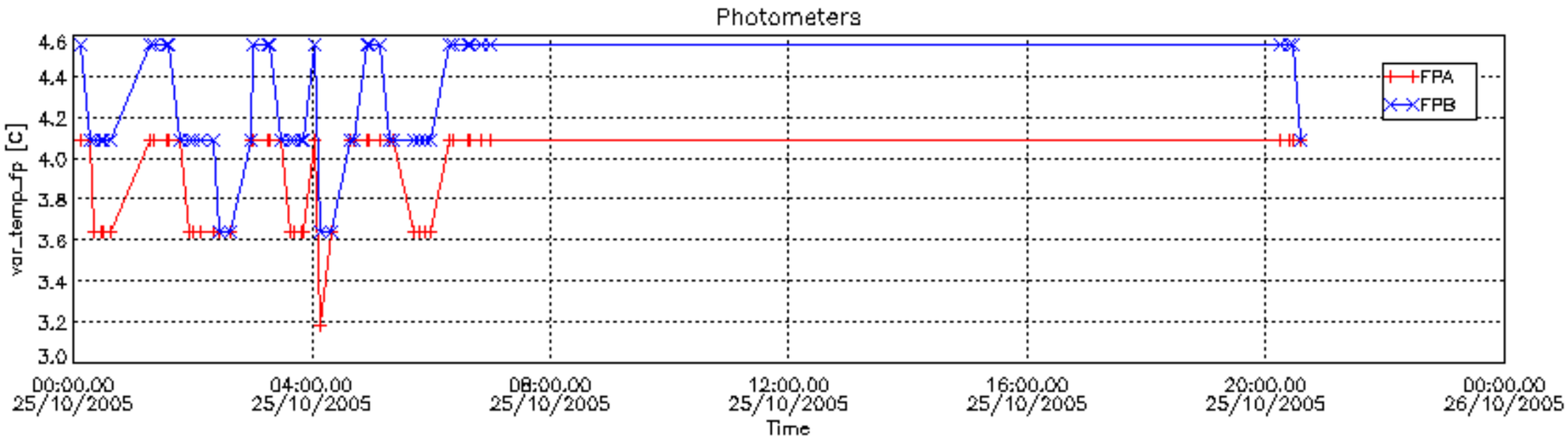
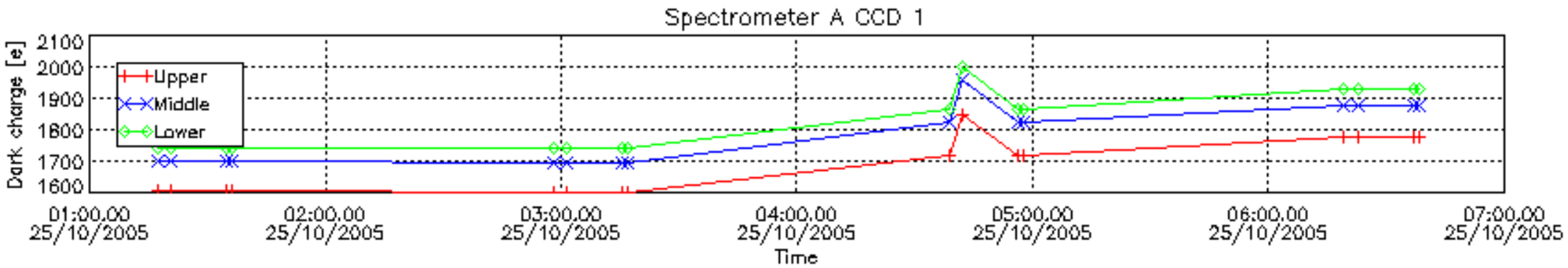
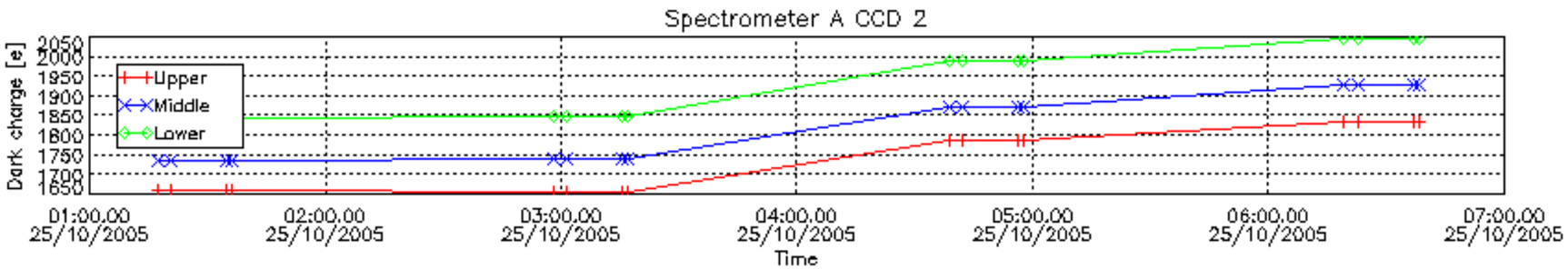
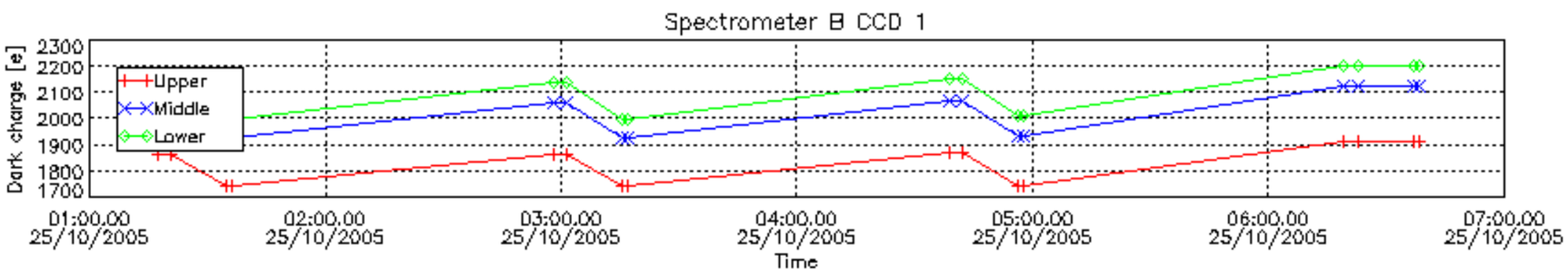
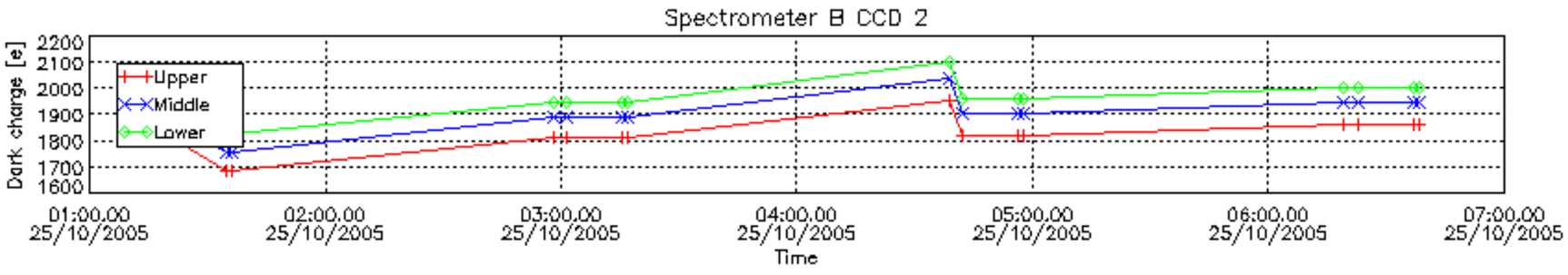
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
25/10/2005
04:00.00
25/10/2005
08:00.00
25/10/2005
12:00.00
25/10/2005
16:00.00
25/10/2005
20:00.00
25/10/2005
00:00.00
26/10/2005
Time

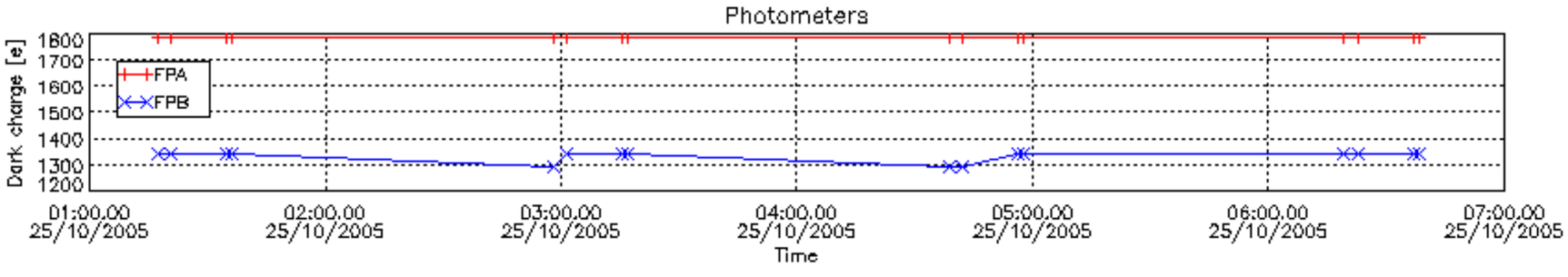

Photometers
var_temp_fp [C]
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
FPA
FPB
00:00.00
25/10/2005
04:00.00
25/10/2005
08:00.00
25/10/2005
12:00.00
25/10/2005
16:00.00
25/10/2005
20:00.00
25/10/2005
00:00.00
26/10/2005
Time

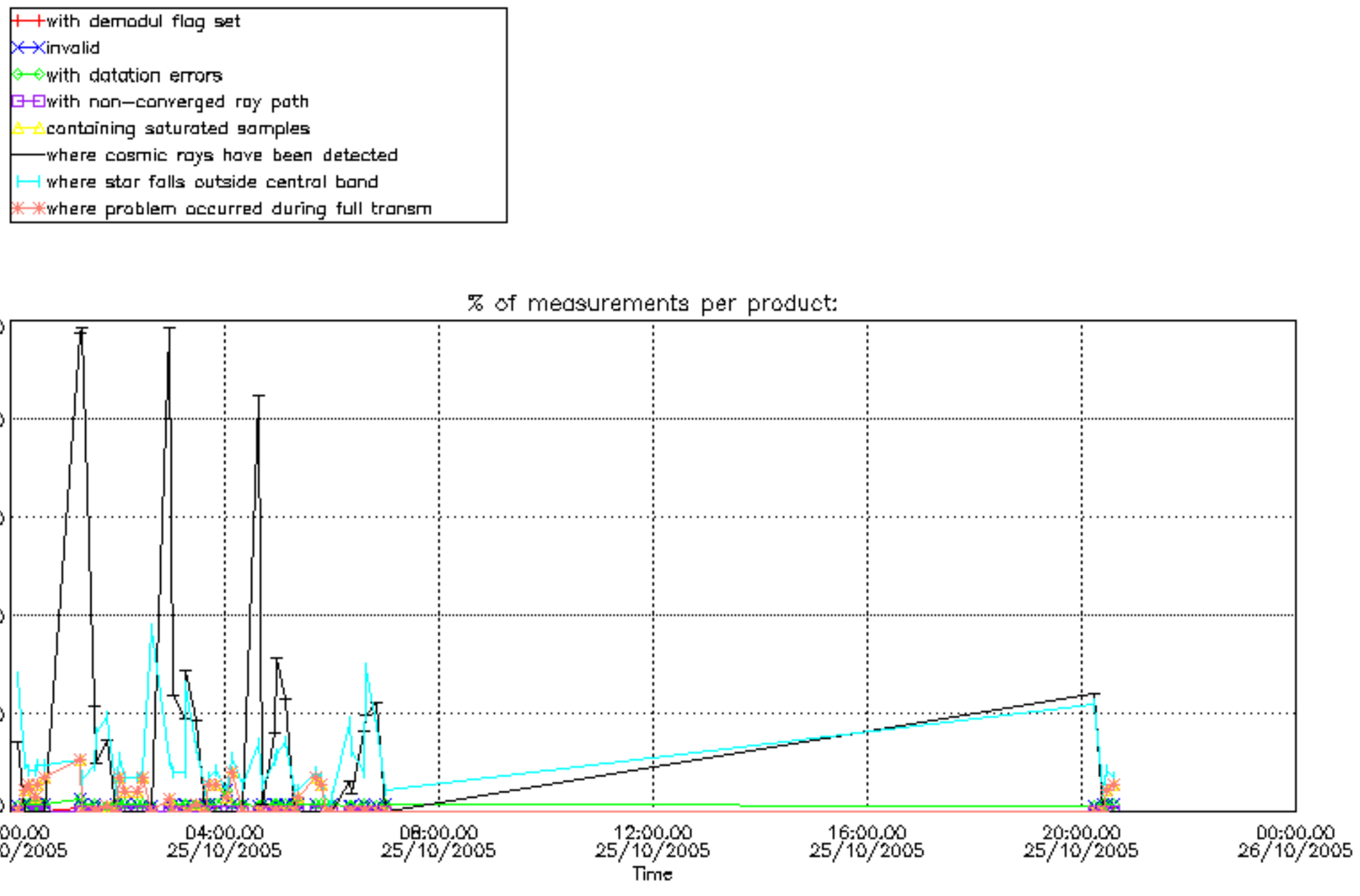

Spectrometer A CCD 1
Dark charge [e]
2100
2000
1900
1800
1700
1600
Upper
Middle
Lower
01:00.00
25/10/2005
02:00.00
25/10/2005
03:00.00
25/10/2005
04:00.00
25/10/2005
05:00.00
25/10/2005
06:00.00
25/10/2005
07:00.00
25/10/2005
Time

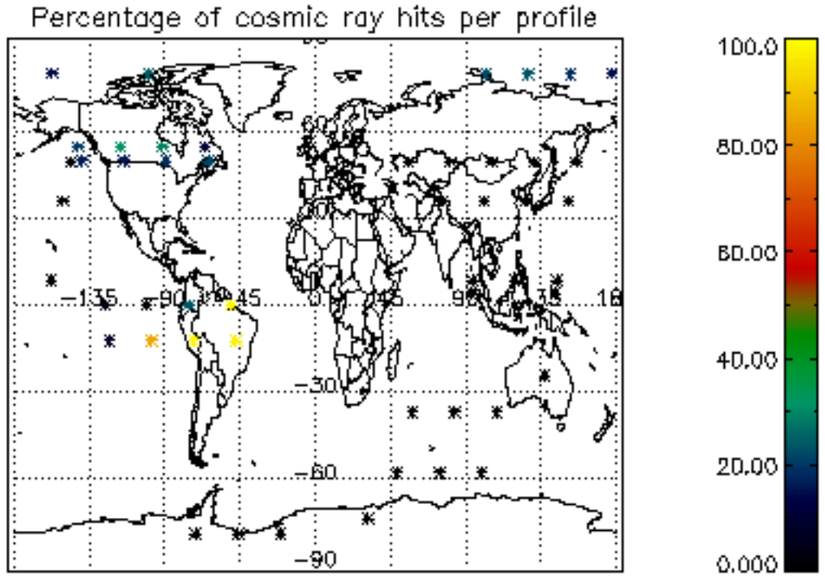

Spectrometer A CCD 2
Dark charge [e]
2050
2000
1950
1900
1850
1800
1750
1700
1650
Upper
Middle
Lower
01:00.00
25/10/2005
02:00.00
25/10/2005
03:00.00
25/10/2005
04:00.00
25/10/2005
05:00.00
25/10/2005
06:00.00
25/10/2005
07:00.00
25/10/2005
Time

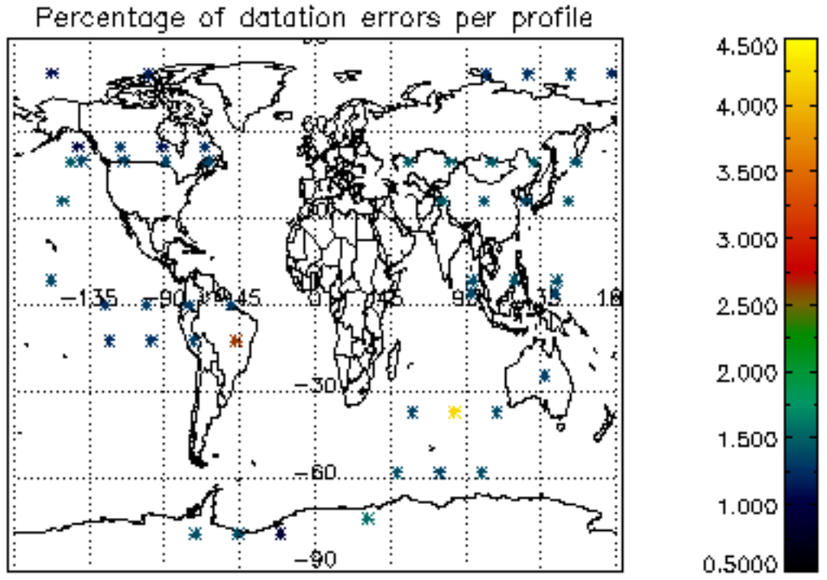

Spectrometer B CCD 1
Dark charge [e]
2300
2200
2100
2000
1900
1800
1700
Upper
Middle
Lower
01:00.00
25/10/2005
02:00.00
25/10/2005
03:00.00
25/10/2005
04:00.00
25/10/2005
05:00.00
25/10/2005
06:00.00
25/10/2005
07:00.00
25/10/2005
Time

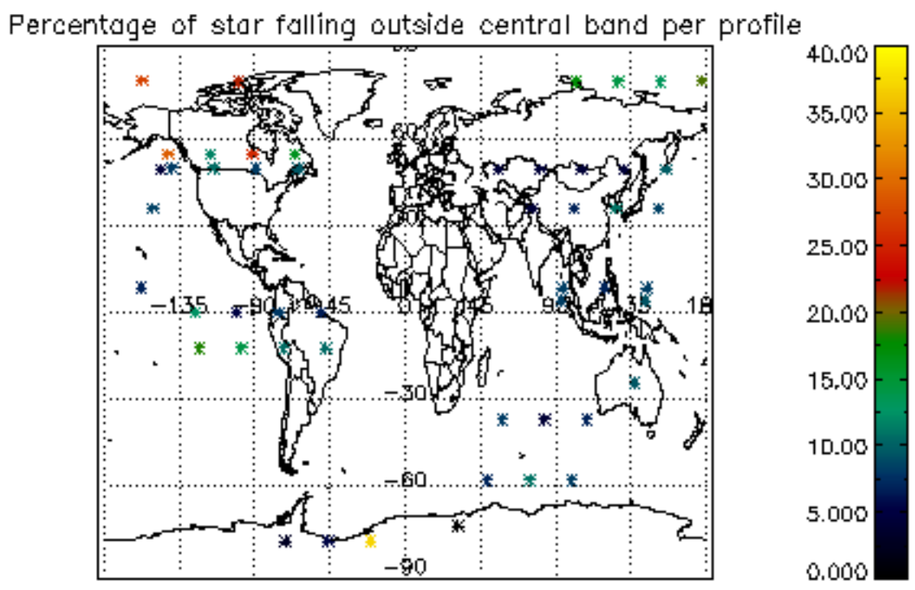

Spectrometer B CCD 2
Dark charge [e]
2200
2100
2000
1900
1800
1700
1600
Upper
Middle
Lower
01:00.00
25/10/2005
02:00.00
25/10/2005
03:00.00
25/10/2005
04:00.00
25/10/2005
05:00.00
25/10/2005
06:00.00
25/10/2005
07:00.00
25/10/2005
Time

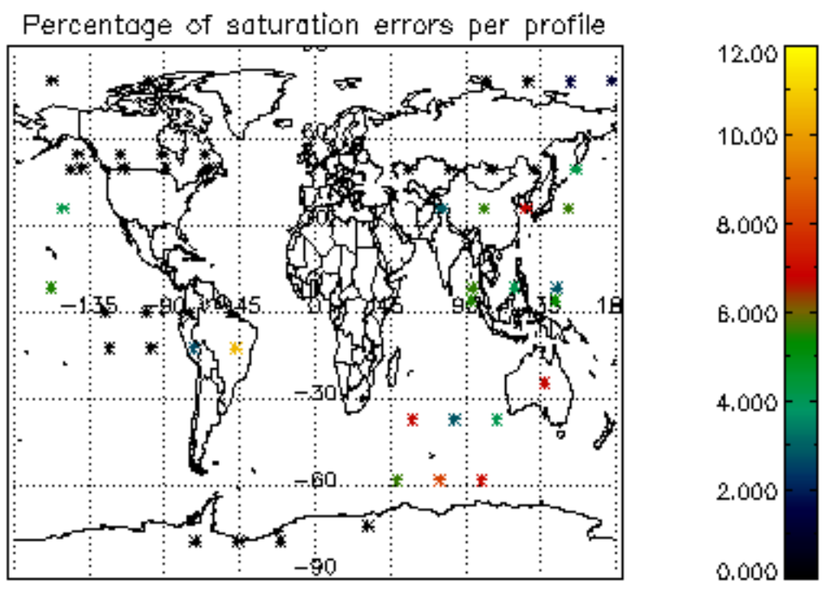

Photometers
Dark charge [e]
1800
1700
1600
1500
1400
1300
1200
FPA
FPB
01:00.00
25/10/2005
02:00.00
25/10/2005
03:00.00
25/10/2005
04:00.00
25/10/2005
05:00.00
25/10/2005
06:00.00
25/10/2005
07:00.00
25/10/2005
Time


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:
value (%)
100
80
60
40
20
0
00:00.00 25/10/2005
04:00.00 25/10/2005
08:00.00 25/10/2005
12:00.00 25/10/2005
16:00.00 25/10/2005
20:00.00 25/10/2005
00:00.00 26/10/2005
Time

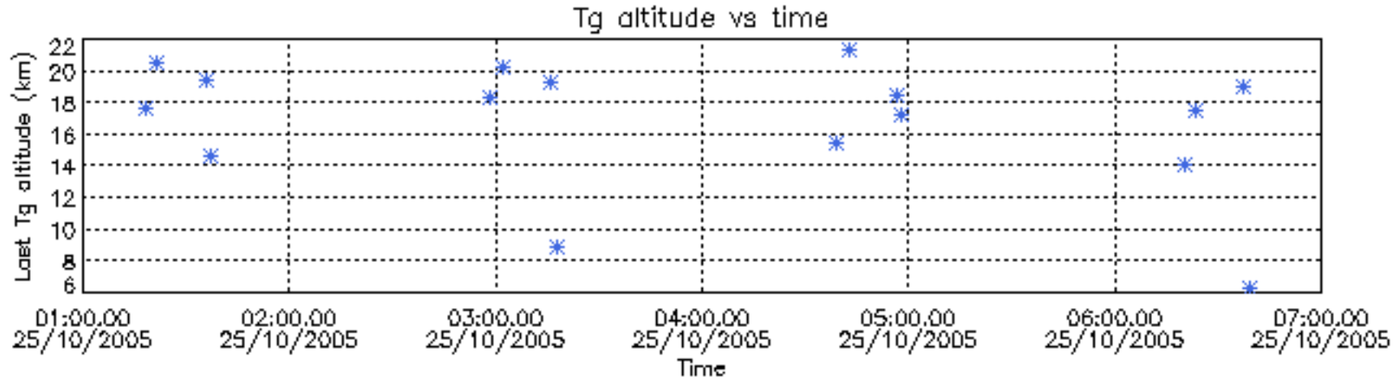

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
-135
-90
-45
0
45
90
135
180
-30
-60
-90

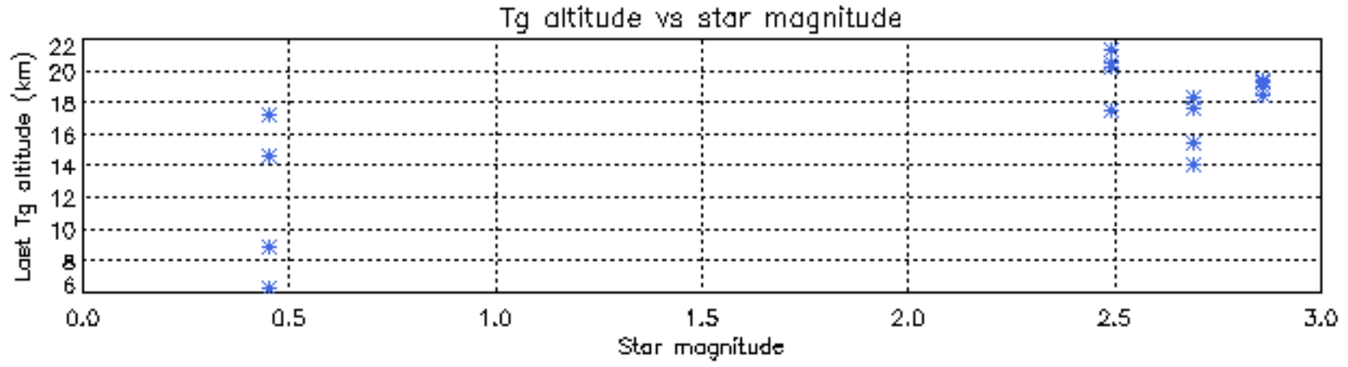

Percentage of datation errors per profile
4.500
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.5000
-135
-90
-45
0
45
90
135
180
-30
-60
-90

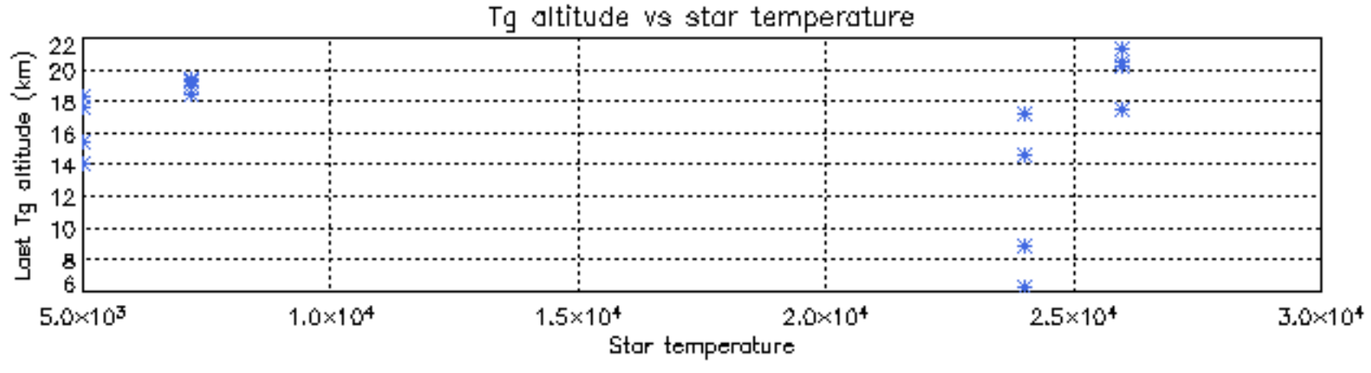

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-135
-90
-45
0
45
90
135
180
-30
-60
-90


Percentage of saturation errors per profile
12.00
10.00
8.000
6.000
4.000
2.000
0.000
-135
-90
-45
0
45
90
135
180
-30
-60
-90

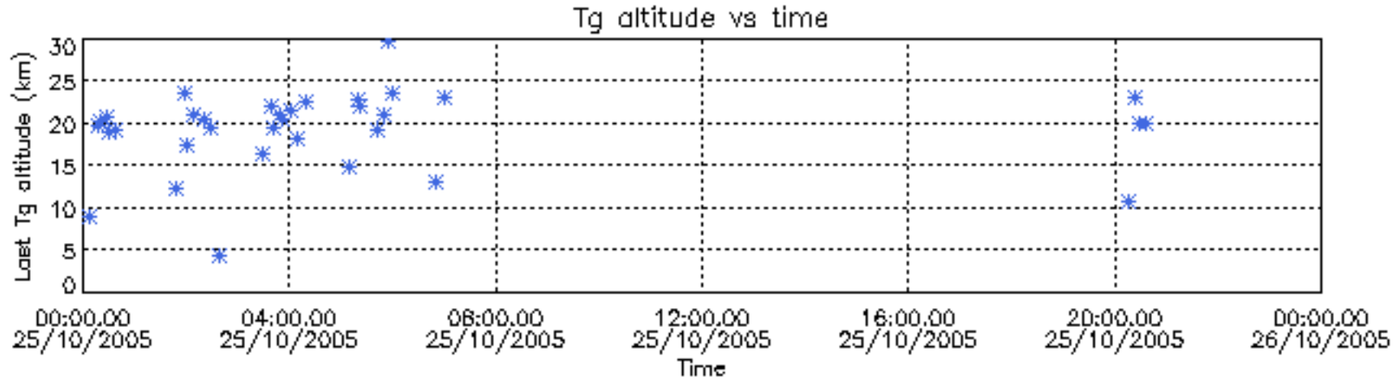
Tangent altitude at which the star is lost

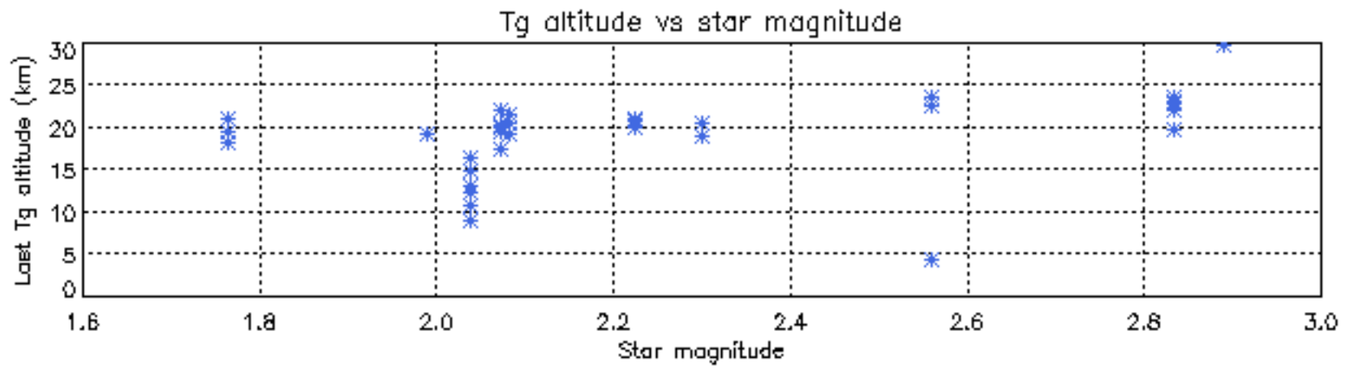


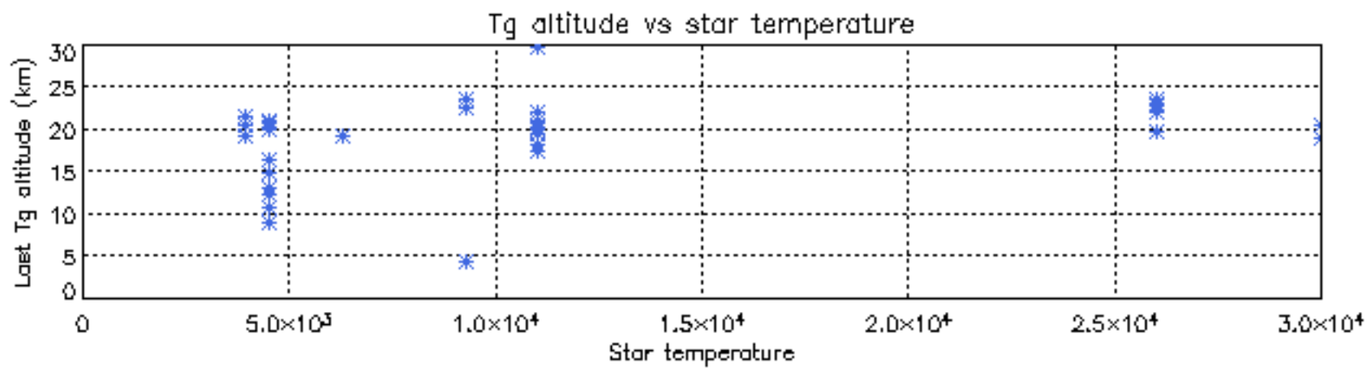




Tangent altitude at which the star is lost







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3; -96.3; 01-OCT-2005 00:33:17; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;18750
4; 732.5; 01-OCT-2005 00:47:06; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;18751
5; 820.1; 01-OCT-2005 00:48:33; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;18751
6; 1141.7; 01-OCT-2005 00:53:55; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;18751
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8; 2168.0; 01-OCT-2005 01:11:01; Bright; 35.5; 90; 54Alp Peg ; 2.49; 11000;occ; 71; 0;18751
9; 2386.2; 01-OCT-2005 01:14:39; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;18751
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16; 2386.5; 01-OCT-2005 06:16:28; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;18754

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   9;-1443.8; 02-OCT-2005 11:23:24; Bright;  35.0;  166; 17Eps Leo  ; 2.98;  6000;occ;  70;   0;18771
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   9; 4002.3; 04-OCT-2005 21:54:32; Bright;  35.0;   82; 48Bet UMa  ; 2.37; 10600;occ;  70;   0;18806
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  11;-1394.6; 04-OCT-2005 17:03:23; Bright;  33.5;   51; 41Gam1Leo  ; 2.01;  4500;occ;  67;   0;18803
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   8;-1828.9; 09-OCT-2005 15:58:40; Bright;  34.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  69;   0;18874
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  16; -17.3; 13-OCT-2005 19:24:12; Dark ; 40.0;   46;   Del Vel ; 1.95; 10600;occ; 80;   0;18933
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9; 2166.4; 15-OCT-2005 22:18:34; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69;   0;18964
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17; 4216.9; 15-OCT-2005 22:52:44; Bright; 40.5; 174; 52Psi UMa ; 3.00; 4400;occ; 81;   0;18964
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3;   -1.4; 15-OCT-2005 23:23:02; Dark ; 43.5;   46;   Del Vel ; 1.95; 10600;occ; 87;   0;18964
4; 142.6; 15-OCT-2005 23:25:26; Dark ; 37.5;   29;   Bet Car ; 1.67; 10200;occ; 75;   0;18965
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14; 3606.9; 16-OCT-2005 00:23:10; Bright; 35.0;   60; 7Bet UMi ; 2.08; 3950;occ; 70;   0;18965
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   9; 2868.5; 27-OCT-2005 02:46:05; Bright; 34.5;   68; 18Alp Cas ; 2.22; 4500;occ; 69;   0;19124
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