GOMOS Daily Report 03-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	05OCT2005 05:02:09

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (03OCT2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (04OCT2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

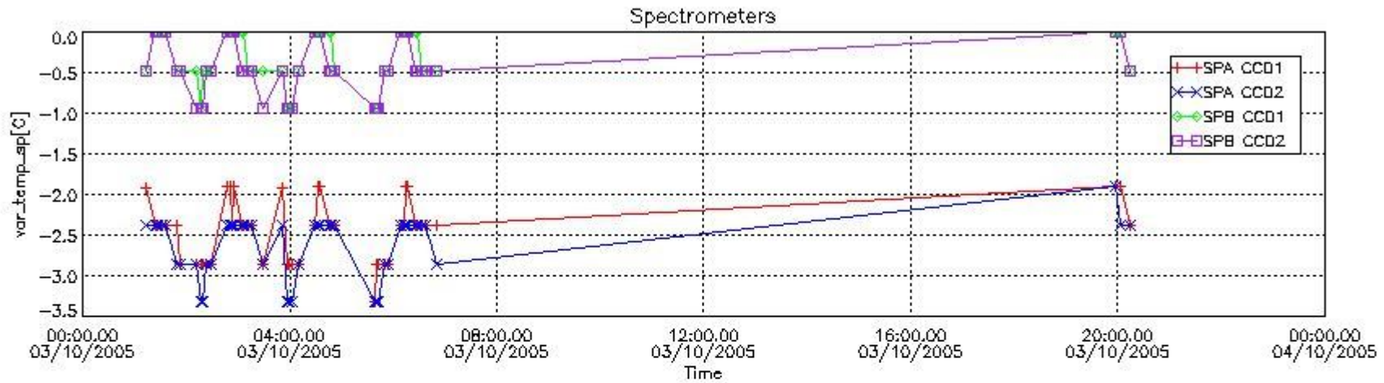
2.1 Level 0 products arrived in PCF (see template here)

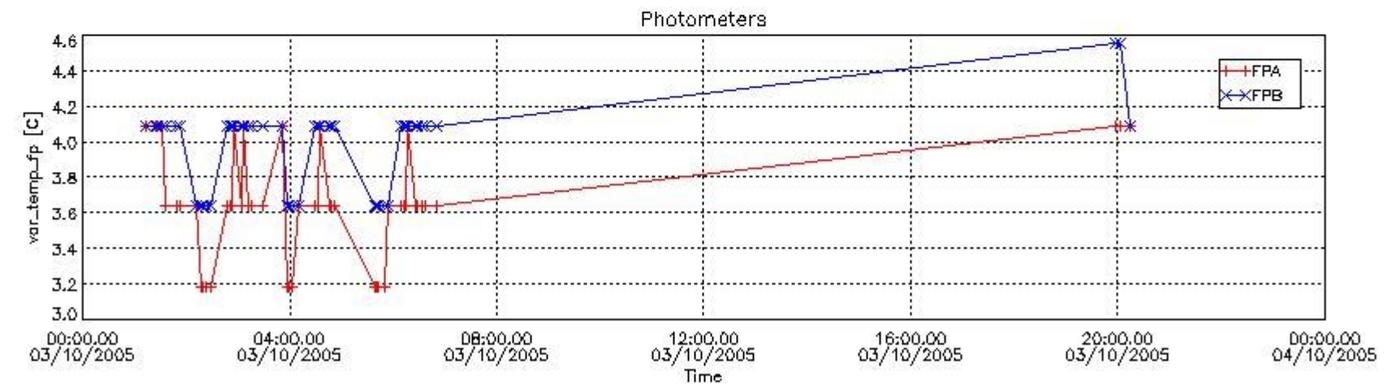
2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20051003_011359_000000372041_00189_18780_0000.N1	03-OCT-2005 01:13:59	Dark	36.500	29	Bet Car	1.6720	10200.	73	18780	No
2	GOM_TRA_1PNPDE20051003_012439_000000402041_00189_18780_0001.N1	03-OCT-2005 01:24:39	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	18780	No
3	GOM_TRA_1PNPDE20051003_012606_000000502041_00189_18780_0002.N1	03-OCT-2005 01:26:06	Dark	50.000	9	Alp Eri	0.45300	24000.	100	18780	No
4	GOM_TRA_1PNPDE20051003_013125_000000382041_00189_18780_0003.N1	03-OCT-2005 01:31:25	Twilight	37.500	84	Alp Phe	2.3970	4500.0	75	18780	No
5	GOM_TRA_1PNPDE20051003_013601_000000402041_00189_18780_0004.N1	03-OCT-2005 01:36:01	Bright	39.500	18	24Alp PsA	1.1660	9700.0	79	18780	No
6	GOM_TRA_1PNPDE20051003_014825_000000362041_00189_18780_0005.N1	03-OCT-2005 01:48:25	Bright	35.500	90	54Alp Peg	2.4870	11000.	71	18780	No
7	GOM_TRA_1PNPDE20051003_015202_000000362041_00189_18780_0006.N1	03-OCT-2005 01:52:02	Bright	36.000	93	53Bet Peg	2.5200	3100.0	72	18780	No
8	GOM_TRA_1PNPDE20051003_021135_000000372041_00189_18780_0000.N1	03-OCT-2005 02:11:35	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	18780	No
9	GOM_TRA_1PNPDE20051003_021724_000000362041_00189_18780_0001.N1	03-OCT-2005 02:17:24	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	18780	No
10	GOM_TRA_1PNPDE20051003_021855_000000342041_00189_18780_0002.N1	03-OCT-2005 02:18:55	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	18780	No
11	GOM_TRA_1PNPDE20051003_022209_000000342041_00189_18780_0003.N1	03-OCT-2005 02:22:09	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18780	No
12	GOM_TRA_1PNPDE20051003_022932_000000342041_00189_18780_0004.N1	03-OCT-2005 02:29:32	Twilight	33.500	51	41Gam1Leo	2.0100	4500.0	67	18780	No
13	GOM_TRA_1PNPDE20051003_024809_000000452041_00189_18780_0005.N1	03-OCT-2005 02:48:09	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	18780	No
14	GOM_TRA_1PNPDE20051003_025126_000000382041_00189_18780_0006.N1	03-OCT-2005 02:51:26	Dark	38.000	46	Del Vel	1.9540	10600.	76	18780	No
15	GOM_TRA_1PNPDE20051003_025301_000000482041_00190_18781_0007.N1	03-OCT-2005 02:53:01	Dark	48.000	41	Eps Car	1.8600	4100.0	96	18781	No
16	GOM_TRA_1PNPDE20051003_025435_000000372041_00190_18781_0008.N1	03-OCT-2005 02:54:35	Dark	36.500	29	Bet Car	1.6720	10200.	73	18781	No
17	GOM_TRA_1PNPDE20051003_030515_000000392041_00190_18781_0009.N1	03-OCT-2005 03:05:15	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	18781	No
18	GOM_TRA_1PNPDE20051003_030643_000000452041_00190_18781_0010.N1	03-OCT-2005 03:06:43	Dark	44.500	9	Alp Eri	0.45300	24000.	89	18781	No
19	GOM_TRA_1PNPDE20051003_031201_000000432041_00190_18781_0011.N1	03-OCT-2005 03:12:01	Twilight	43.000	84	Alp Phe	2.3970	4500.0	86	18781	No
20	GOM_TRA_1PNPDE20051003_031637_000000392041_00190_18781_0012.N1	03-OCT-2005 03:16:37	Bright	39.000	18	24Alp PsA	1.1660	9700.0	78	18781	No
21	GOM_TRA_1PNPDE20051003_032901_000000362041_00190_18781_0013.N1	03-OCT-2005 03:29:01	Bright	35.500	90	54Alp Peg	2.4870	11000.	71	18781	No
22	GOM_TRA_1PNPDE20051003_035211_000000372041_00190_18781_0000.N1	03-OCT-2005 03:52:11	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	18781	Yes
23	GOM_TRA_1PNPDE20051003_035800_000000352041_00190_18781_0001.N1	03-OCT-2005 03:58:00	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	18781	No
24	GOM_TRA_1PNPDE20051003_035931_000000352041_00190_18781_0002.N1	03-OCT-2005 03:59:31	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	18781	No
25	GOM_TRA_1PNPDE20051003_040245_000000512041_00190_18781_0003.N1	03-OCT-2005 04:02:45	Bright	51.000	174	52Psi UMa	3.0040	4400.0	102	18781	No
26	GOM_TRA_1PNPDE20051003_041008_000000332041_00190_18781_0004.N1	03-OCT-2005 04:10:08	Twilight	33.000	51	41Gam1Leo	2.0100	4500.0	66	18781	No
27	GOM_TRA_1PNPDE20051003_042846_000000462041_00190_18781_0005.N1	03-OCT-2005 04:28:46	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	18781	No
28	GOM_TRA_1PNPDE20051003_043202_000000392041_00190_18781_0006.N1	03-OCT-2005 04:32:02	Dark	38.500	46	Del Vel	1.9540	10600.	77	18781	No
29	GOM_TRA_1PNPDE20051003_043338_000000502041_00191_18782_0007.N1	03-OCT-2005 04:33:38	Dark	49.500	41	Eps Car	1.8600	4100.0	99	18782	No
30	GOM_TRA_1PNPDE20051003_043511_000000372041_00191_18782_0008.N1	03-OCT-2005 04:35:11	Dark	36.500	29	Bet Car	1.6720	10200.	73	18782	No
31	GOM_TRA_1PNPDE20051003_044551_000000392041_00191_18782_0009.N1	03-OCT-2005 04:45:51	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	18782	No
32	GOM_TRA_1PNPDE20051003_044719_000000412041_00191_18782_0010.N1	03-OCT-2005 04:47:19	Dark	40.500	9	Alp Eri	0.45300	24000.	81	18782	No
33	GOM_TRA_1PNPDE20051003_045237_000000412041_00191_18782_0011.N1	03-OCT-2005 04:52:37	Twilight	40.500	84	Alp Phe	2.3970	4500.0	81	18782	No
34	GOM_TRA_1PNPDE20051003_053836_000000382041_00191_18782_0000.N1	03-OCT-2005 05:38:36	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	18782	No
35	GOM_TRA_1PNPDE20051003_054007_000000362041_00191_18782_0001.N1	03-OCT-2005 05:40:07	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	18782	No
36	GOM_TRA_1PNPDE20051003_054321_000000342041_00191_18782_0002.N1	03-OCT-2005 05:43:21	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	18782	No
37	GOM_TRA_1PNPDE20051003_055044_000000332041_00191_18782_0003.N1	03-OCT-2005 05:50:44	Twilight	33.000	51	41Gam1Leo	2.0100	4500.0	66	18782	No
38	GOM_TRA_1PNPDE20051003_055306_000000332041_00191_18782_0004.N1	03-OCT-2005 05:53:06	Twilight	32.500	22	32Alp Leo	1.3600	15200.	65	18782	No
39	GOM_TRA_1PNPDE20051003_060922_000000412041_00191_18782_0005.N1	03-OCT-2005 06:09:22	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	18782	No
40	GOM_TRA_1PNPDE20051003_061239_000000432041_00191_18782_0006.N1	03-OCT-2005 06:12:39	Dark	43.000	46	Del Vel	1.9540	10600.	86	18782	No
41	GOM_TRA_1PNPDE20051003_061414_000000442041_00192_18783_0007.N1	03-OCT-2005 06:14:14	Dark	44.000	41	Eps Car	1.8600	4100.0	88	18783	No
42	GOM_TRA_1PNPDE20051003_061548_000000402041_00192_18783_0008.N1	03-OCT-2005 06:15:48	Dark	39.500	29	Bet Car	1.6720	10200.	79	18783	No
43	GOM_TRA_1PNPDE20051003_062628_000000382041_00192_18783_0009.N1	03-OCT-2005 06:26:28	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	18783	No
44	GOM_TRA_1PNPDE20051003_062755_000000502041_00192_18783_0010.N1	03-OCT-2005 06:27:55	Dark	50.000	9	Alp Eri	0.45300	24000.	100	18783	No
45	GOM_TRA_1PNPDE20051003_063314_000000452041_00192_18783_0011.N1	03-OCT-2005 06:33:14	Twilight	45.000	84	Alp Phe	2.3970	4500.0	90	18783	No
46	GOM_TRA_1PNPDE20051003_063750_000000452041_00192_18783_0012.N1	03-OCT-2005 06:37:50	Bright	45.000	18	24Alp PsA	1.1660	9700.0	90	18783	No

47	GOM_TRA_1PNPDE20051003_065013_000000372041_00192_18783_0013.N1	03-OCT-2005 06:50:13	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	18783	No
48	GOM_TRA_1PNPDE20051003_195803_000000412041_00200_18791_0000.N1	03-OCT-2005 19:58:03	Twilight	40.500	84	Alp Phe	2.3970	4500.0	81	18791	No
49	GOM_TRA_1PNPDE20051003_200238_000000392041_00200_18791_0001.N1	03-OCT-2005 20:02:38	Bright	39.000	18	24Alp PsA	1.1660	9700.0	78	18791	No
50	GOM_TRA_1PNPDE20051003_201501_000000362041_00200_18791_0002.N1	03-OCT-2005 20:15:01	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	18791	No

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





4. Overview of dark signal processing per product

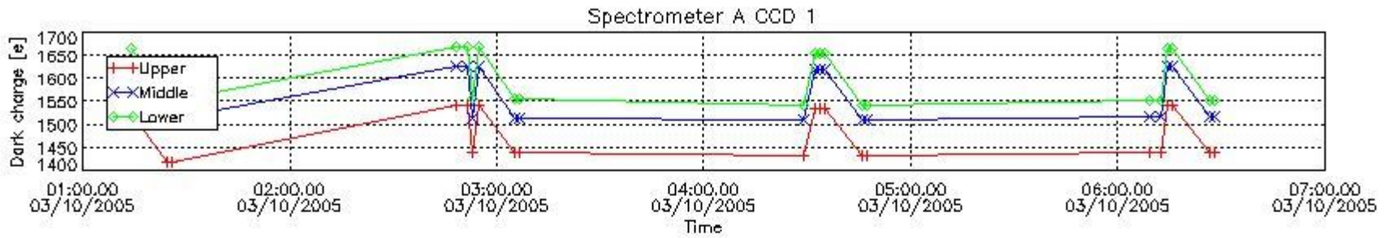
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

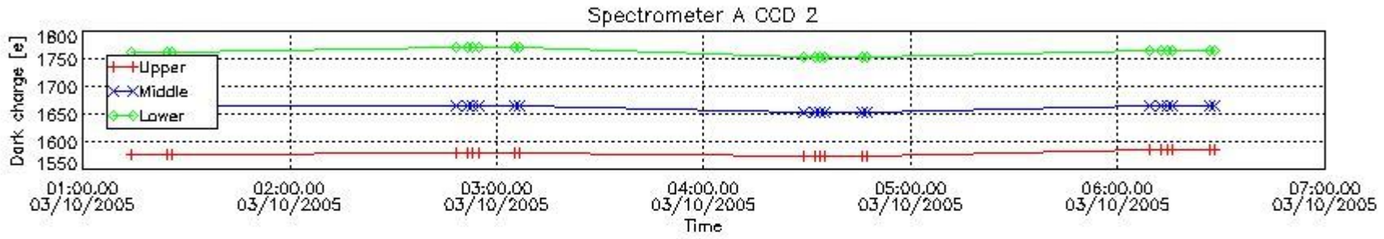
4.1 These products did not use the DSA observation for DC computation:

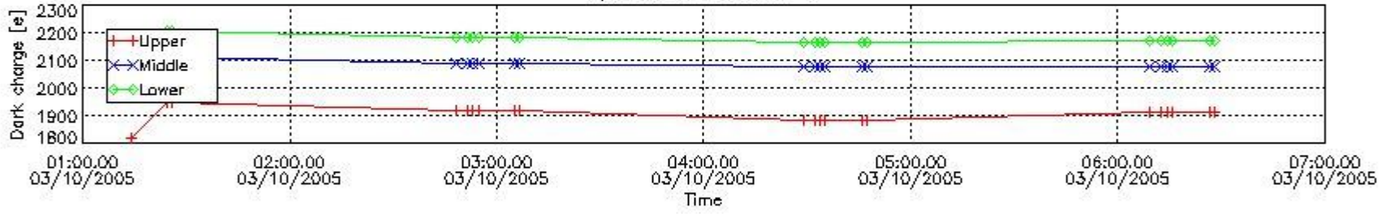
Product name	DC information
GOM_TRA_1PNPDE20051003_011359_000000372041_00189_18780_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20051003_012439_000000402041_00189_18780_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20051003_012606_000000502041_00189_18780_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20051003_013125_000000382041_00189_18780_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20051003_013601_000000402041_00189_18780_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20051003_014825_000000362041_00189_18780_0005.N1	DC map used (0)

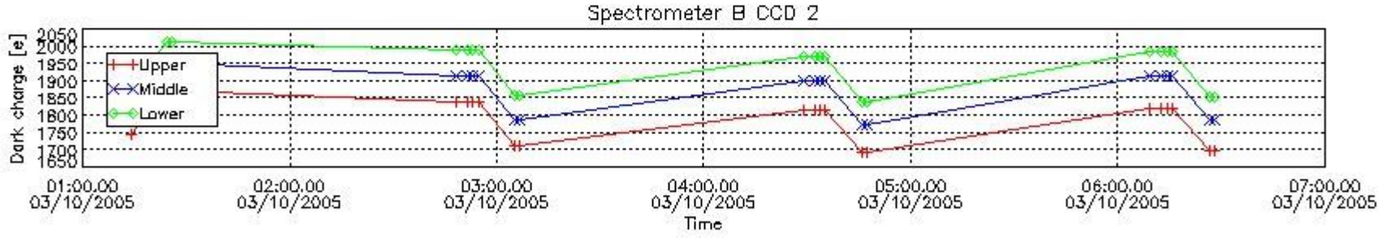
GOM_TRA_1PNPDE20051003_015202_000000362041_00189_18780_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20051003_195803_000000412041_00200_18791_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20051003_200238_000000392041_00200_18791_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20051003_201501_000000362041_00200_18791_0002.N1	DC map used (0)

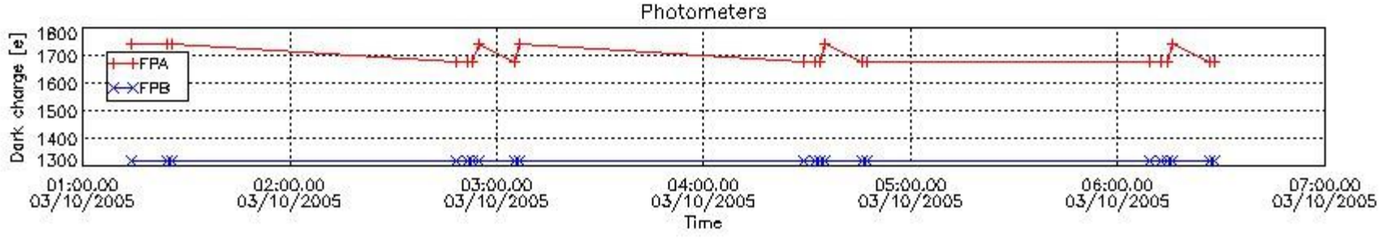
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











5. Demodulation flag and quality information monitoring

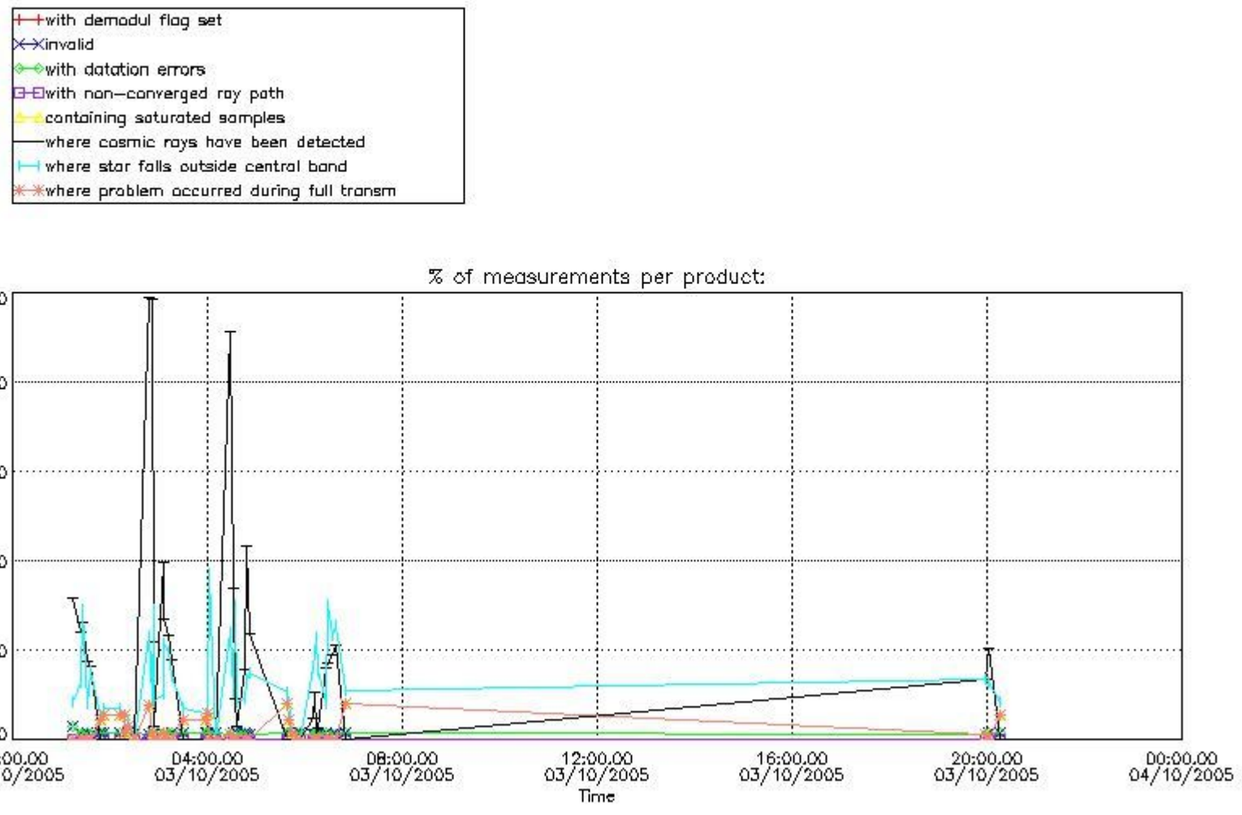
In this section it is presented the modulation information extracted from the pcd (product confidence data)

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:

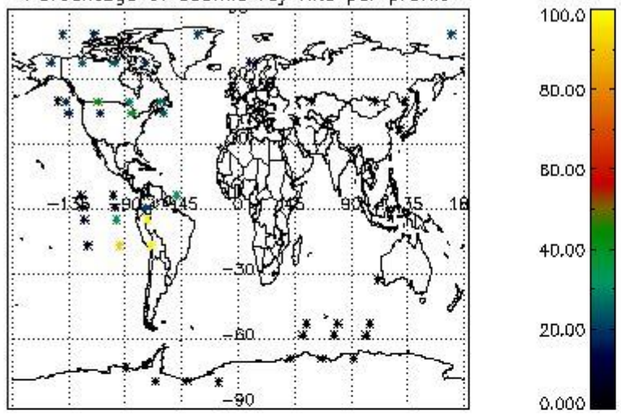
At least one measurement with demodulation flag set:	16.3265 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

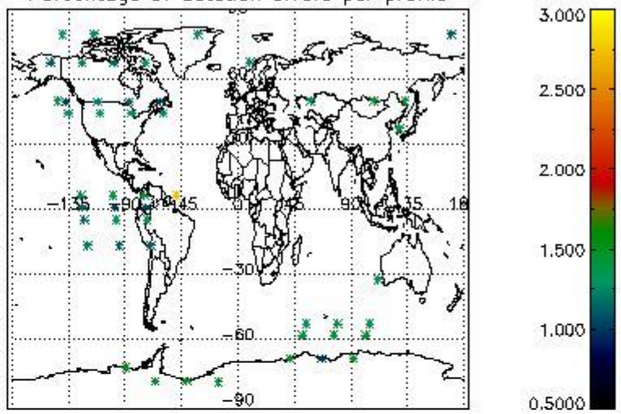


5.3 Plot quality information per product (world map)

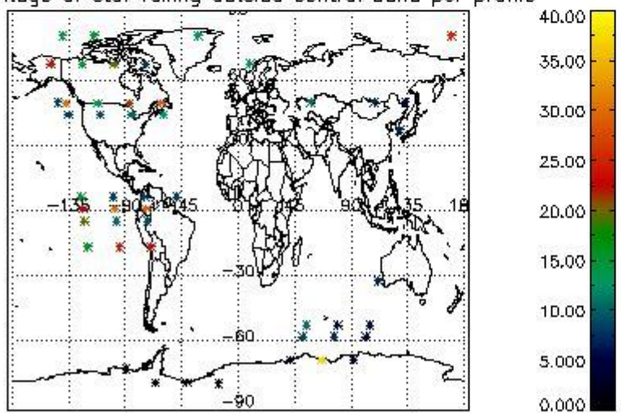
Percentage of cosmic ray hits per profile



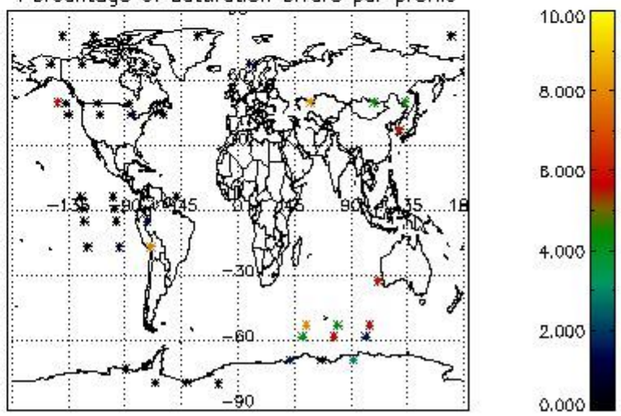
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



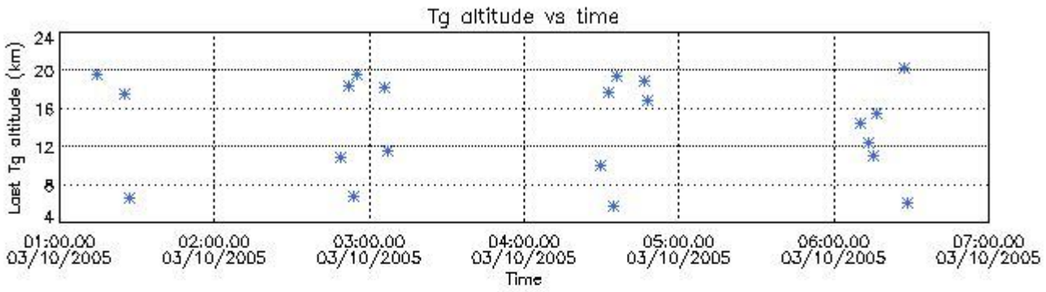
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

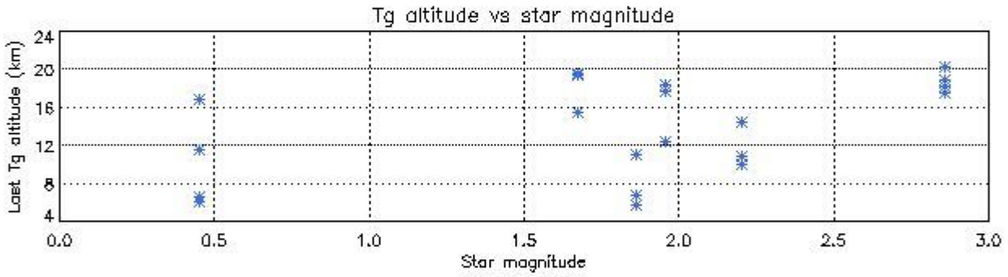
6.1 Statistics on tangent altitude lost:

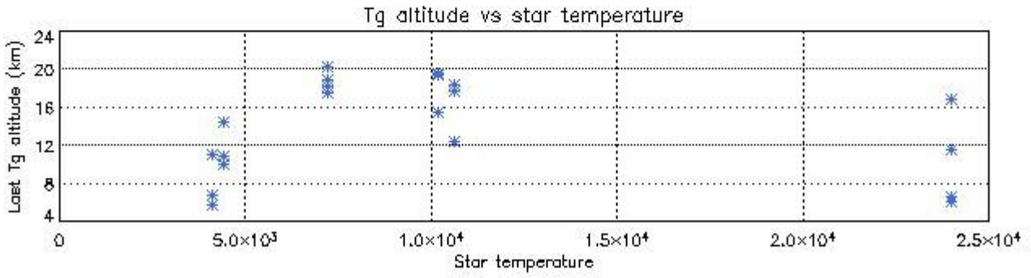
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.120	18.697	20.274
St. deviation:	5.0484	5.0667	6.9930
Maximum:	20.177	25.170	29.197
Minimum:	5.7418	4.4167	10.594
Number of data:	21.000	19.000	9.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

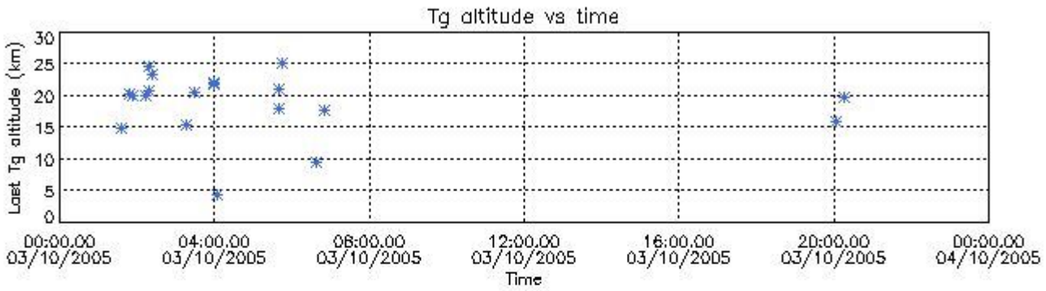


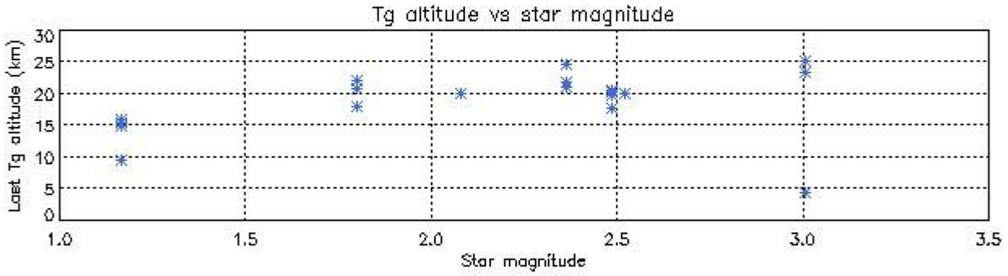


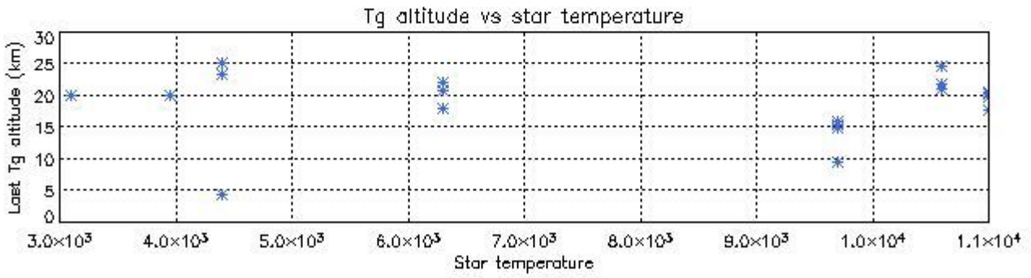


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

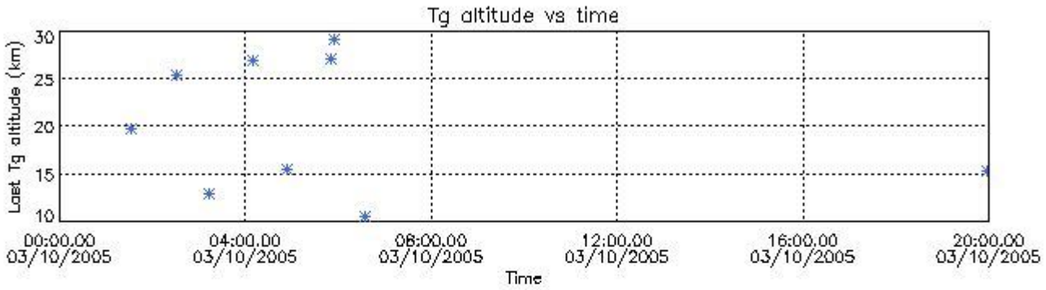


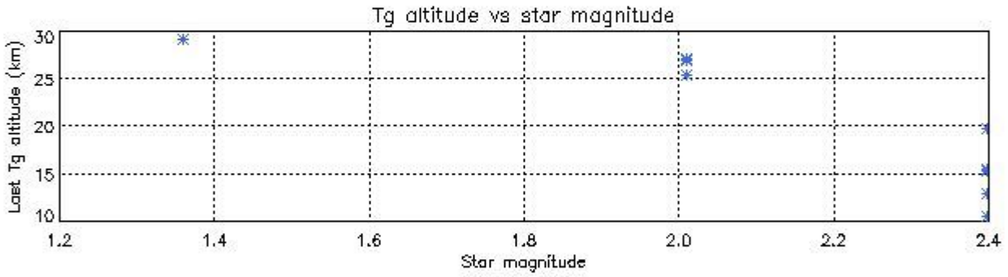


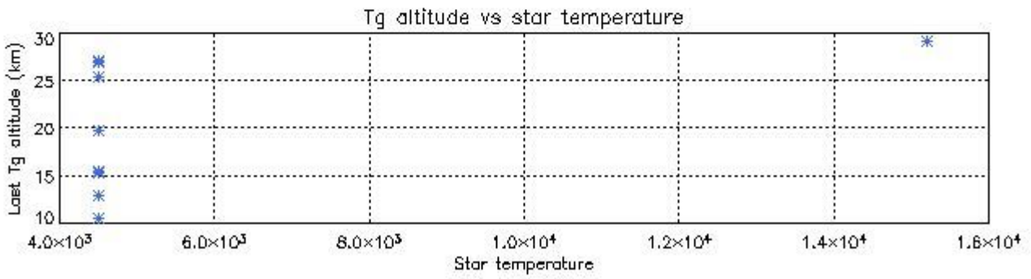


6.3 Plot for TWILIGHT limb products

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

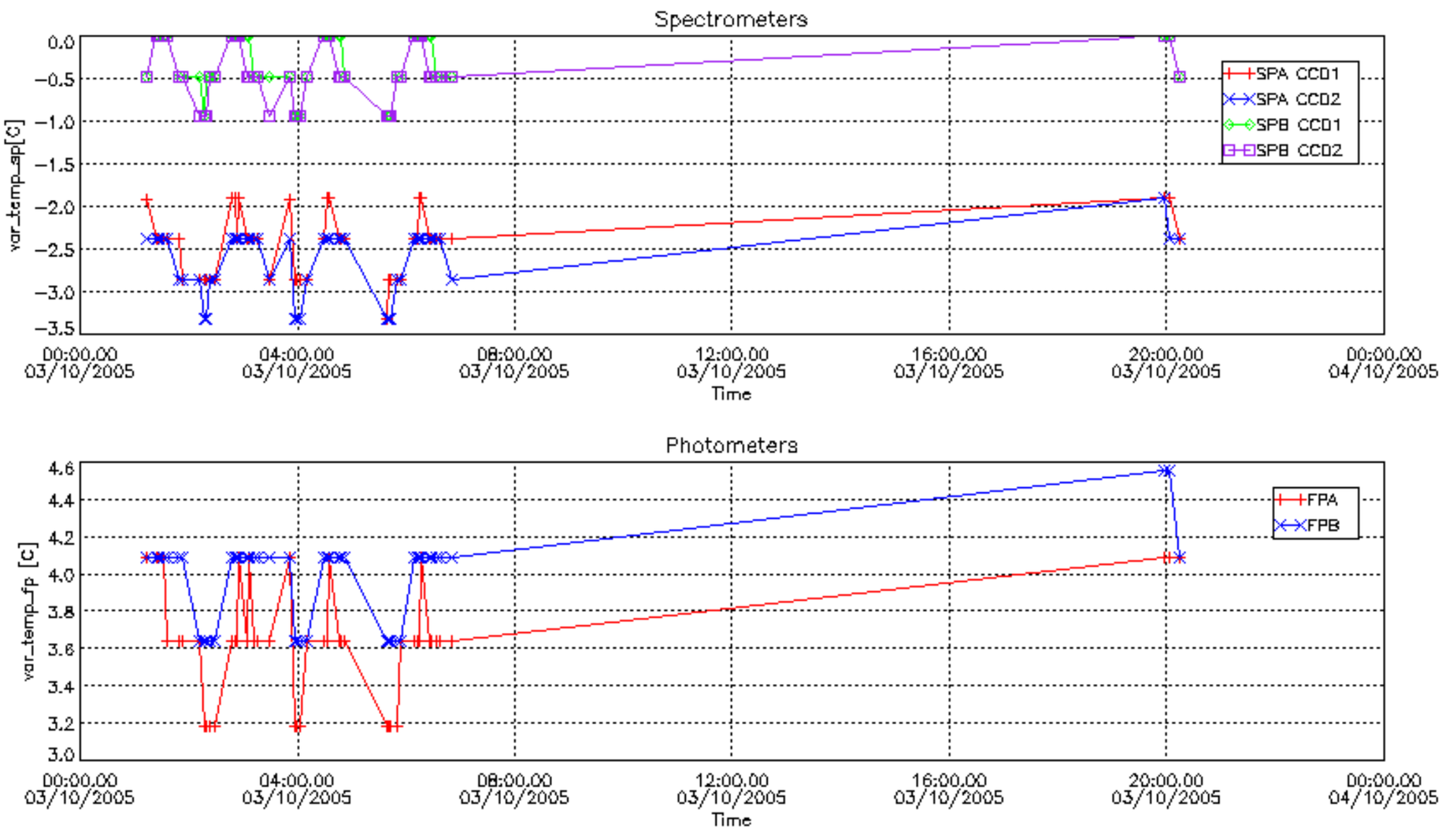
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.
Statistics above 105 km are computed for every occultation, giving four values per occultation: 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.

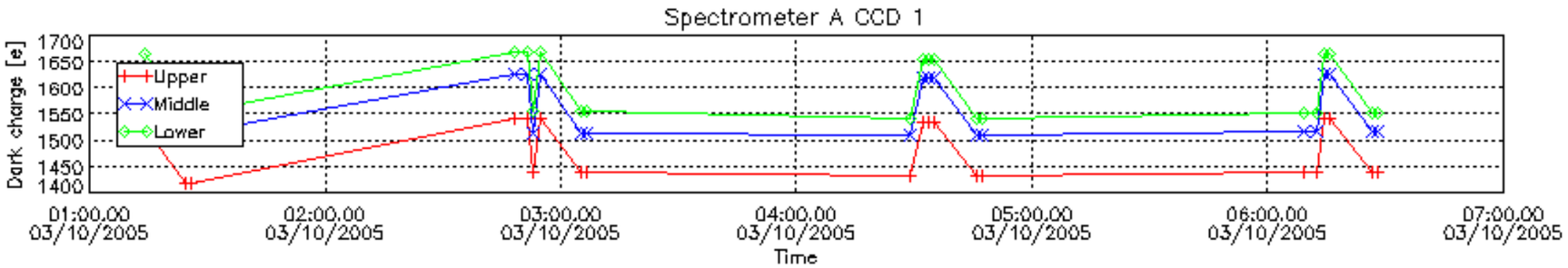
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.2	1445.8	1459.6	1446.8
St. deviation:	4.6107	10.125	6.8028	12.578
Maximum:	1496.0	1493.0	1497.0	1498.0
Minimum:	1454.0	1426.0	1431.0	1393.0
Number of data:	18350.	18350.	15450.	15450.

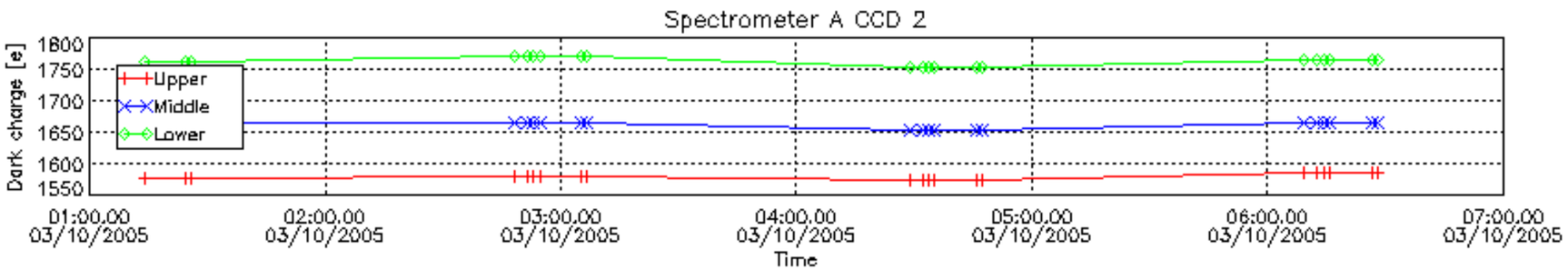
8. Auxiliary Data Files used for the production reported in section 2.2

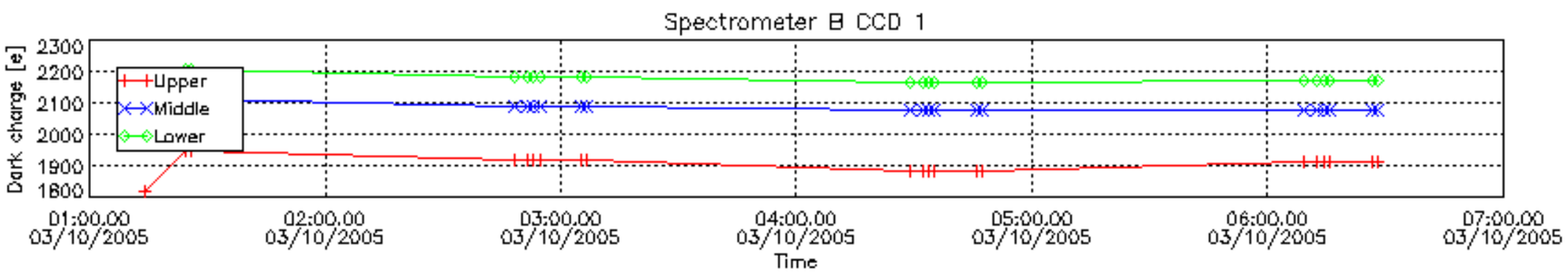
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

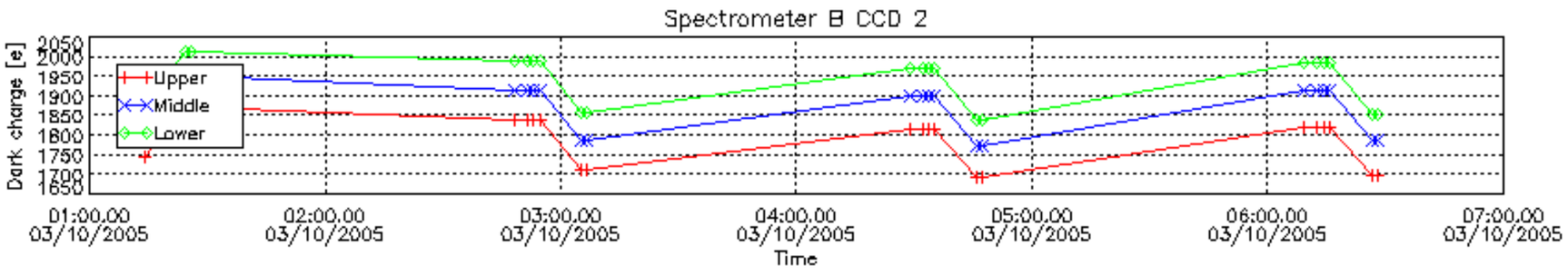
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	03-OCT-2005 01:13:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050919_104724_20050917_000000_20100101_000000	1	03-OCT-2005 01:13:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	03-OCT-2005 01:13:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-OCT-2005 01:13:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	03-OCT-2005 01:13:59
ECMWF_FILE	AUX_ECF_AXNECM20051002_060730_20051002_210000_20051003_090000	1	03-OCT-2005 01:13:59
ECMWF_FILE	AUX_ECF_AXNECM20051002_192705_20051003_030000_20051003_150000	22	03-OCT-2005 03:52:11
ECMWF_FILE	AUX_ECA_AXNECM20051003_070704_20051002_210000_20051003_090000	34	03-OCT-2005 05:38:36
ECMWF_FILE	AUX_ECA_AXNECM20051003_190748_20051003_090000_20051003_210000	48	03-OCT-2005 19:58:03
OPTIONAL_ECMWF_FILE	NOT USED	1	03-OCT-2005 01:13:59
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20051002_232655_20051002_182952_20051012_213642	1	03-OCT-2005 01:13:59

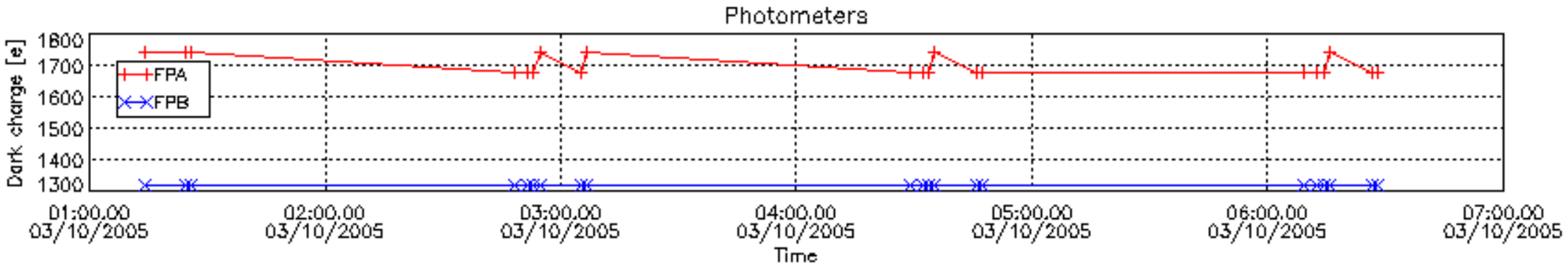

Spectrometers
var_temp_sp[C]
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
−3.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
03/10/2005
04:00.00
03/10/2005
08:00.00
03/10/2005
12:00.00
03/10/2005
16:00.00
03/10/2005
20:00.00
03/10/2005
00:00.00
04/10/2005
Time
Photometers
var_temp_fp [C]
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
FPA
FPB
00:00.00
03/10/2005
04:00.00
03/10/2005
08:00.00
03/10/2005
12:00.00
03/10/2005
16:00.00
03/10/2005
20:00.00
03/10/2005
00:00.00
04/10/2005
Time

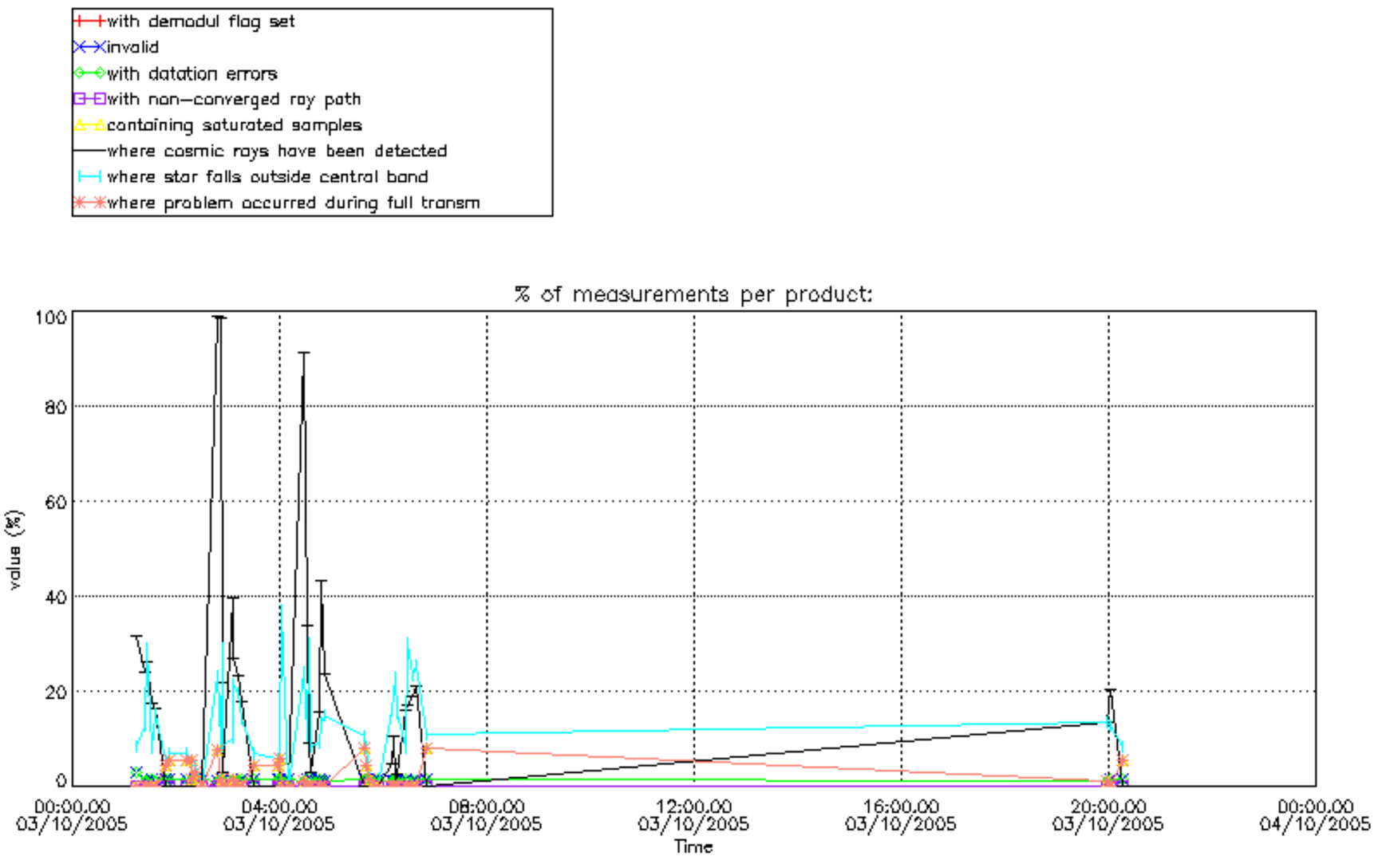

Spectrometer A CCD 1
Dark charge [e]
1700
1650
1600
1550
1500
1450
1400
Upper
Middle
Lower
01:00.00 03/10/2005
02:00.00 03/10/2005
03:00.00 03/10/2005
04:00.00 03/10/2005
05:00.00 03/10/2005
06:00.00 03/10/2005
07:00.00 03/10/2005
Time

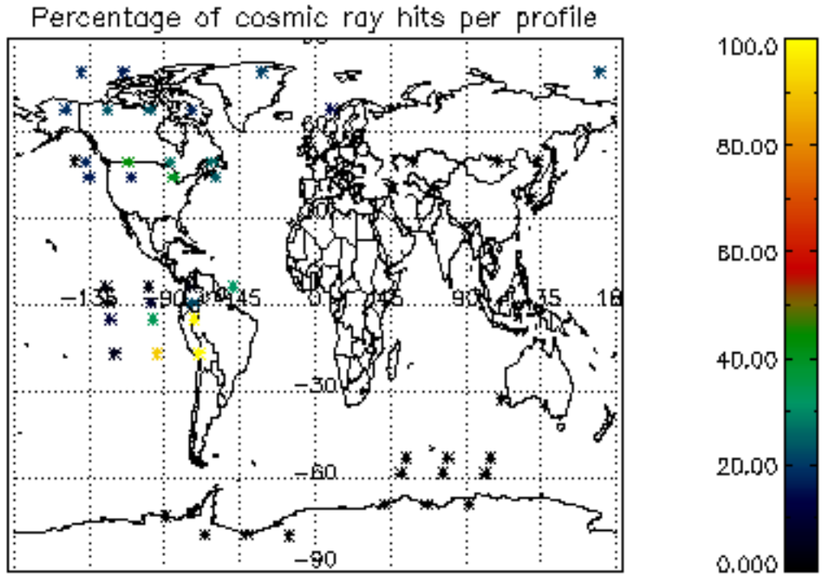

Spectrometer A CCD 2
Dark charge [e]
1800
1750
1700
1650
1600
1550
Upper
Middle
Lower
01:00.00 03/10/2005
02:00.00 03/10/2005
03:00.00 03/10/2005
04:00.00 03/10/2005
05:00.00 03/10/2005
06:00.00 03/10/2005
07:00.00 03/10/2005
Time

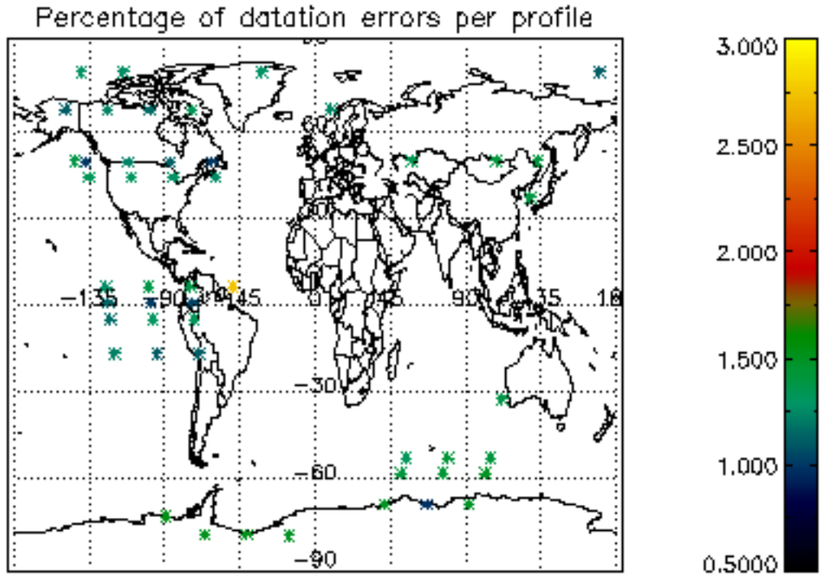

Spectrometer B CCD 1
Dark charge [e]
2300
2200
2100
2000
1900
1800
Upper
Middle
Lower
01:00.00 03/10/2005
02:00.00 03/10/2005
03:00.00 03/10/2005
04:00.00 03/10/2005
05:00.00 03/10/2005
06:00.00 03/10/2005
07:00.00 03/10/2005
Time

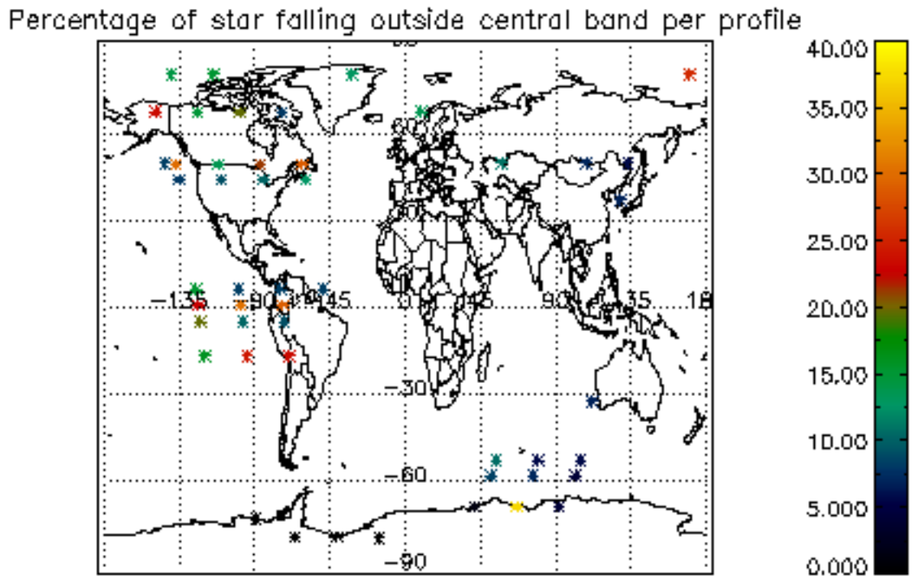

Spectrometer B CCD 2
Dark charge [e]
2050
2000
1950
1900
1850
1800
1750
1700
1650
Upper
Middle
Lower
01:00.00 03/10/2005
02:00.00 03/10/2005
03:00.00 03/10/2005
04:00.00 03/10/2005
05:00.00 03/10/2005
06:00.00 03/10/2005
07:00.00 03/10/2005
Time

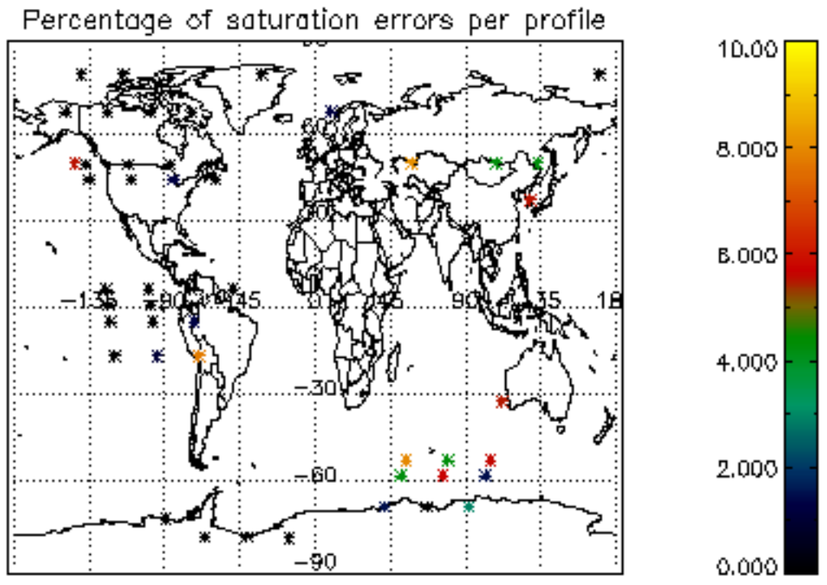

Photometers
Dark charge [e]
1800
1700
1600
1500
1400
1300
FPA
FPB
01:00.00 03/10/2005
02:00.00 03/10/2005
03:00.00 03/10/2005
04:00.00 03/10/2005
05:00.00 03/10/2005
06:00.00 03/10/2005
07:00.00 03/10/2005
Time


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 03/10/2005
04:00.00 03/10/2005
08:00.00 03/10/2005
12:00.00 03/10/2005
16:00.00 03/10/2005
20:00.00 03/10/2005
00:00.00 04/10/2005
Time

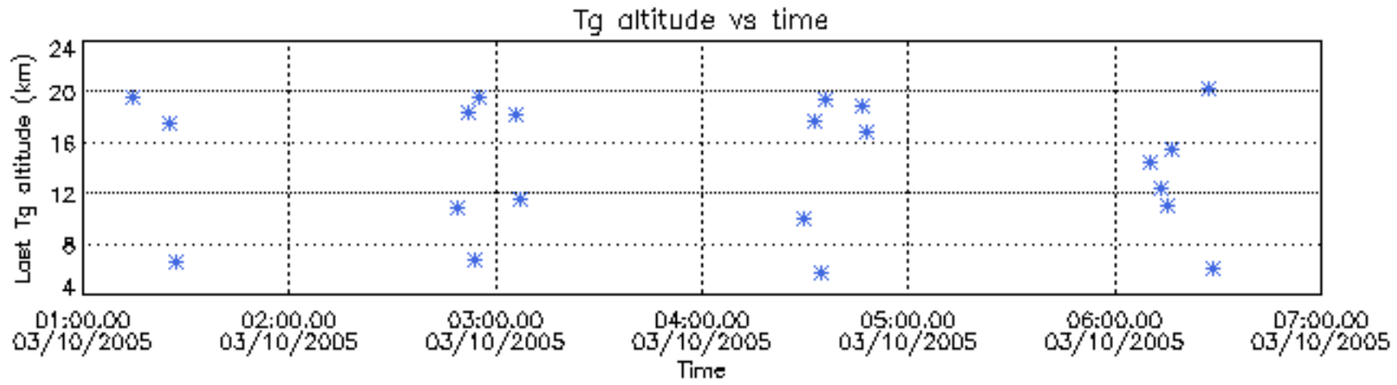

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
-30
-60
-90

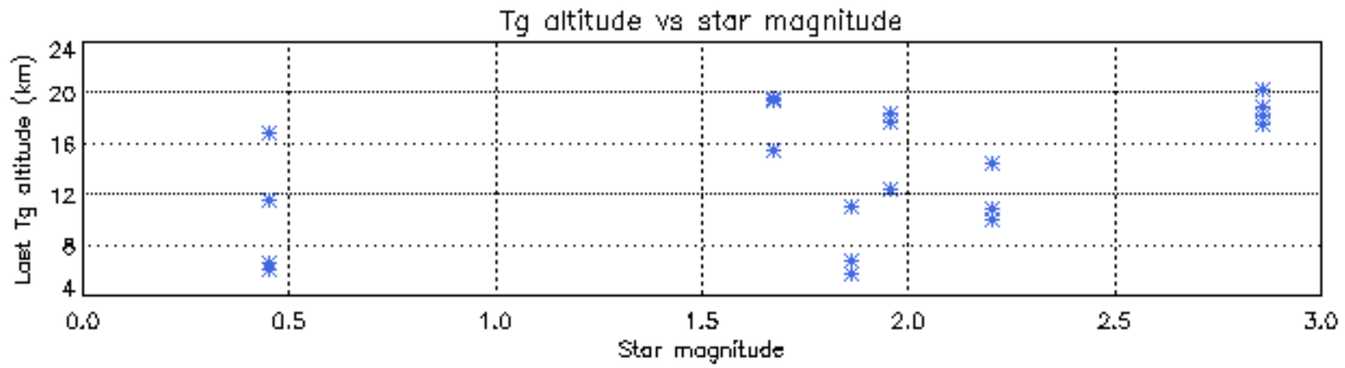

Percentage of datation errors per profile
3.000
2.500
2.000
1.500
1.000
0.5000
-30
-60
-90

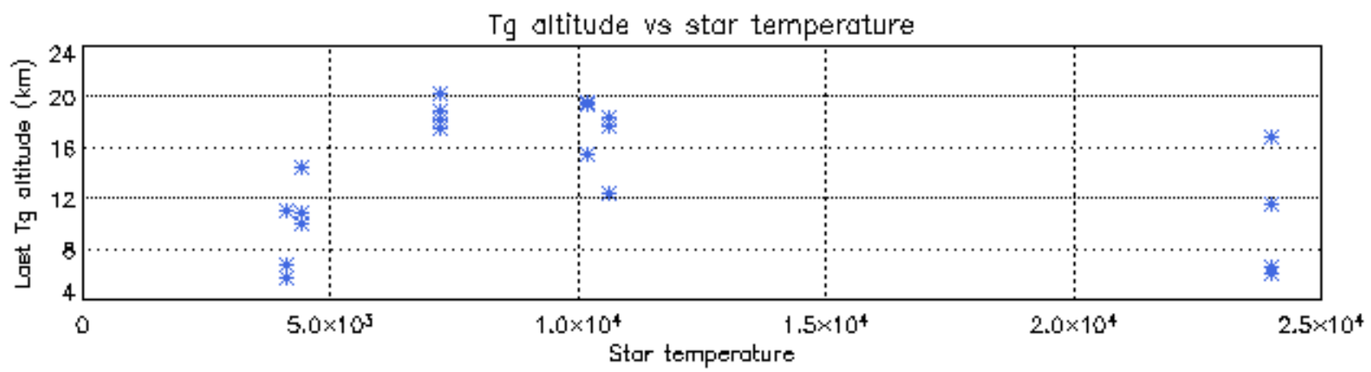

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-30
-60
-90


Percentage of saturation errors per profile
10.00
8.000
6.000
4.000
2.000
0.000
-30
-60
-90

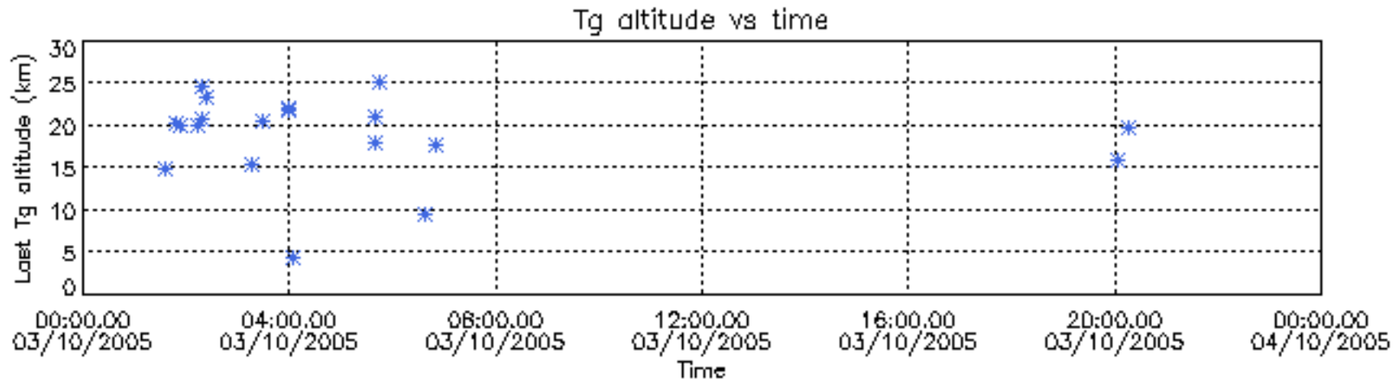
Tangent altitude at which the star is lost

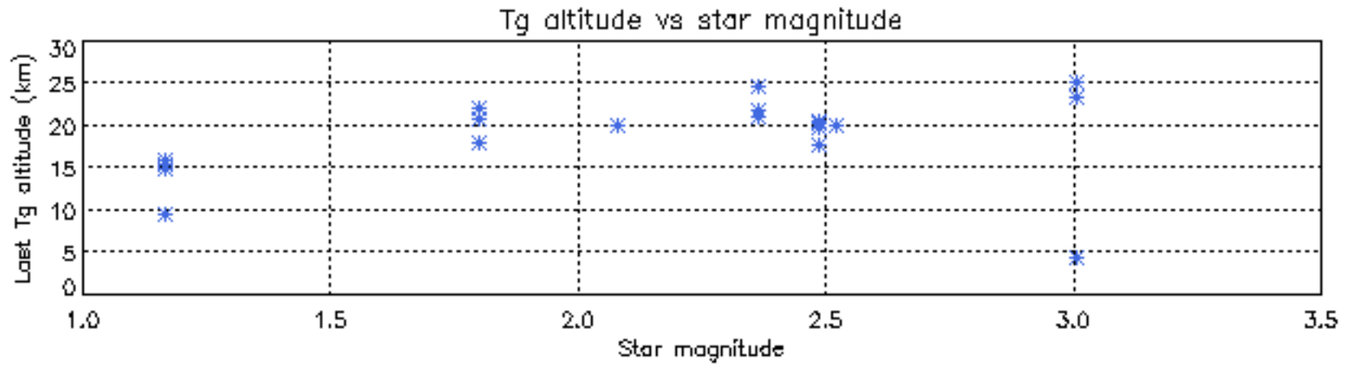


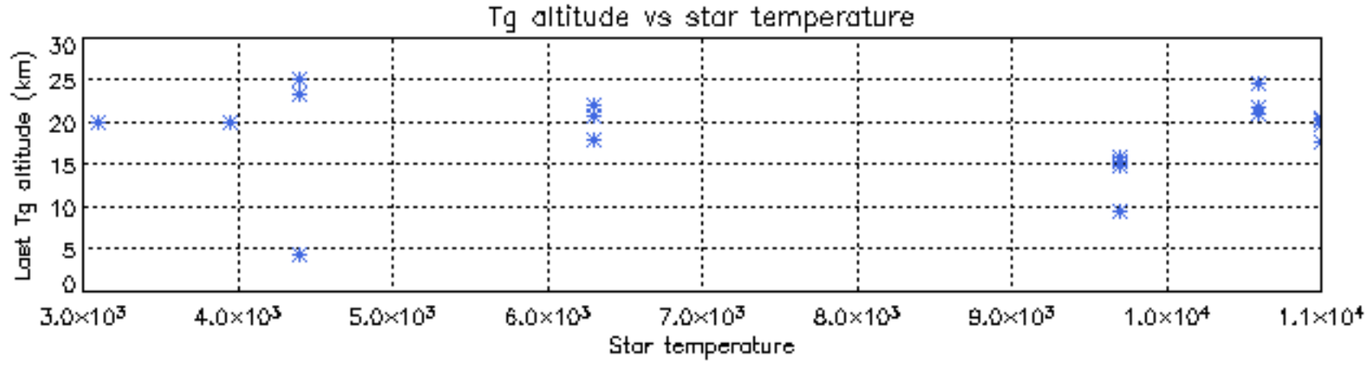




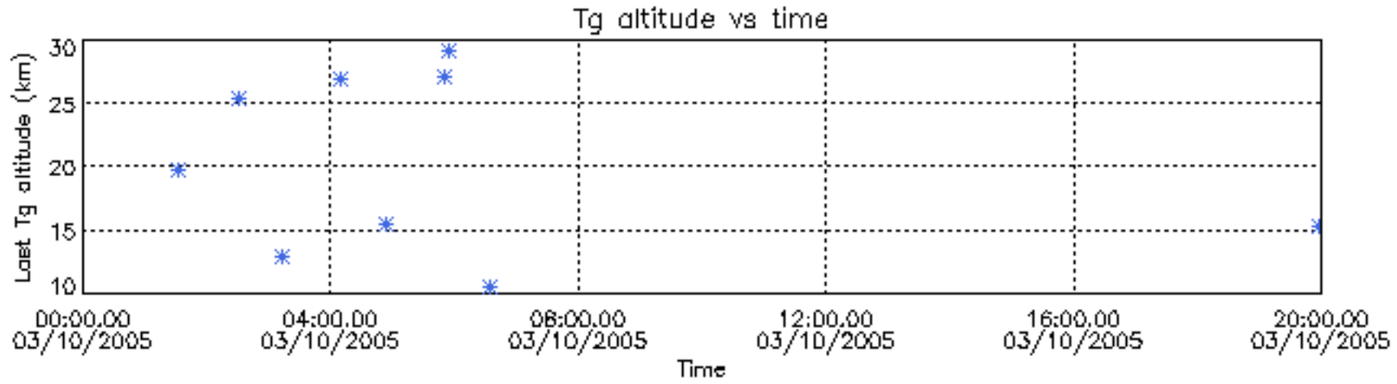
Tangent altitude at which the star is lost

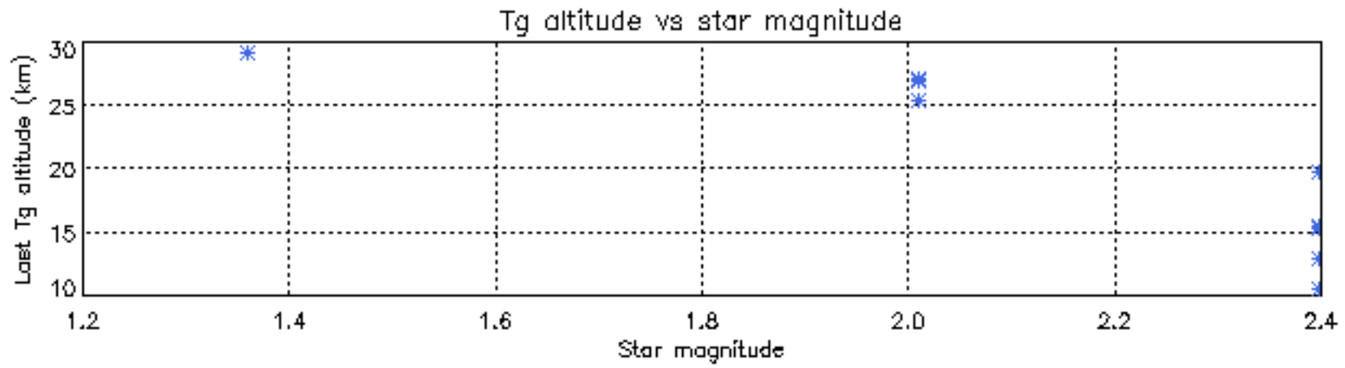


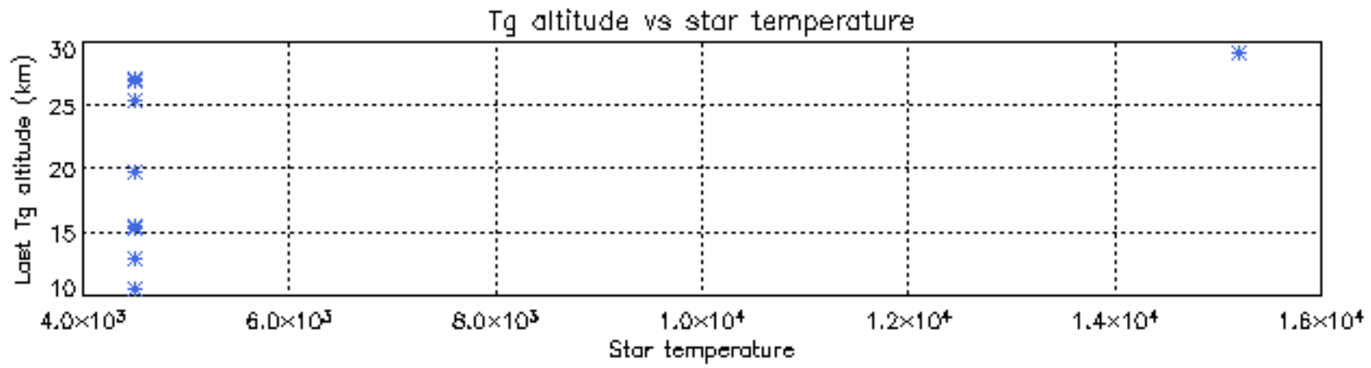




Tangent altitude at which the star is lost







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2; -204.0; 01-OCT-2005 00:31:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;18750
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
7; 1421.0; 01-OCT-2005 00:58:34; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;18751
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
10; 3000.1; 01-OCT-2005 01:24:53; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;18751
11; 3428.5; 01-OCT-2005 01:32:02; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;18751
12; 3552.1; 01-OCT-2005 01:34:05; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;18751
13; 3905.7; 01-OCT-2005 01:39:59; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;18751
14; 3995.9; 01-OCT-2005 01:41:29; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;18751
15; 4188.8; 01-OCT-2005 01:44:42; Bright; 33.0; 174; 52Psi UMa ; 3.00; 4400;occ; 66; 0;18751
16; 4588.2; 01-OCT-2005 01:51:21; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;18751
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3; -203.6; 01-OCT-2005 02:12:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;18751
4; -95.8; 01-OCT-2005 02:13:53; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;18751
5; 732.8; 01-OCT-2005 02:27:42; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;18752
6; 820.5; 01-OCT-2005 02:29:10; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;18752
7; 1142.1; 01-OCT-2005 02:34:31; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;18752
8; 1421.2; 01-OCT-2005 02:39:10; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;18752
9; 2168.0; 01-OCT-2005 02:51:37; Bright; 35.5; 90; 54Alp Peg ; 2.49; 11000;occ; 71; 0;18752
10; 2386.3; 01-OCT-2005 02:55:15; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;18752
11; 3000.4; 01-OCT-2005 03:05:29; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;18752
12; 3428.6; 01-OCT-2005 03:12:38; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;18752
13; 3552.4; 01-OCT-2005 03:14:41; Bright; 8.5; 60; 7Bet UMi ; 2.08; 3950;occ; 17; 0;18752
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2;-2130.1; 01-OCT-2005 03:20:35; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;18752
3;-2039.9; 01-OCT-2005 03:22:05; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;18752
4;-1846.9; 01-OCT-2005 03:25:18; Bright; 46.5; 174; 52Psi UMa ; 3.00; 4400;occ; 93; 0;18752
5;-1447.5; 01-OCT-2005 03:31:57; Bright; 36.0; 166; 17Eps Leo ; 2.98; 6000;occ; 72; 0;18752
6; -873.5; 01-OCT-2005 03:41:32; Dark ; 44.0; 48; 30Alp Hya ; 1.98; 4100;occ; 88; 0;18752
7; -292.8; 01-OCT-2005 03:51:12; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;18752
8; -203.2; 01-OCT-2005 03:52:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;18752
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10; -0.0; 01-OCT-2005 03:56:05; Dark ; 38.0; 41; Eps Car ; 1.86; 4100;occ; 76; 0;18752
11; 733.3; 01-OCT-2005 04:08:18; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;18753
12; 821.0; 01-OCT-2005 04:09:46; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;18753
13; 1142.6; 01-OCT-2005 04:15:08; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;18753
14; 1421.6; 01-OCT-2005 04:19:47; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;18753
15; 2168.1; 01-OCT-2005 04:32:13; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;18753
16; 2386.5; 01-OCT-2005 04:35:52; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;18753
17; 3000.7; 01-OCT-2005 04:46:06; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;18753
18; 3428.7; 01-OCT-2005 04:53:14; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;18753
19; 3552.8; 01-OCT-2005 04:55:18; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;18753
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4;-1447.4; 01-OCT-2005 05:12:34; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;18753
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13; 1142.7; 01-OCT-2005 05:55:44; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;18754
14; 1421.7; 01-OCT-2005 06:00:23; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;18754
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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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  13;  -93.5; 01-OCT-2005 12:17:31; Dark  ;  38.5;   46;   Del Vel  ; 1.95; 10600;occ;  77;   0;18757
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  16;  740.2; 02-OCT-2005 10:19:12; Dark  ;  39.0;  143;   Alp Hyi  ; 2.86;  7200;occ;  78;   0;18771
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   8;-1843.7; 02-OCT-2005 11:16:44; Bright;  32.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  65;   0;18771
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   9;-1843.5; 02-OCT-2005 12:57:20; Bright;  35.0;  174; 52Psi UMa  ; 3.00;  4400;occ;  70;   0;18772
  10;-1443.6; 02-OCT-2005 13:04:00; Bright;  34.0;  166; 17Eps Leo  ; 2.98;  6000;occ;  68;   0;18772
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  14; -40.9; 10-OCT-2005 09:14:27; Dark ; 39.0;   46;   Del Vel ; 1.95; 10600;occ; 78;   0;18884
  15; 124.1; 10-OCT-2005 09:17:12; Dark ; 37.0;   29;   Bet Car ; 1.67; 10200;occ; 74;   0;18885
  16; 780.3; 10-OCT-2005 09:28:09; Dark ; 38.5; 143;   Alp Hyi ; 2.86; 7200;occ; 77;   0;18885
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   8;-2026.6; 10-OCT-2005 12:02:33; Bright;  34.5;   82; 48Bet UMa  ; 2.37; 10600;occ;  69;   0;18886
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  14;  -39.9; 10-OCT-2005 12:35:40; Dark  ;  38.5;   46;   Del Vel  ; 1.95; 10600;occ;  77;   0;18886
  15;  124.7; 10-OCT-2005 12:38:25; Dark  ;  37.0;   29;   Bet Car  ; 1.67; 10200;occ;  74;   0;18887
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  12; -231.5; 10-OCT-2005 14:13:04; Dark  ;  53.5;   65;   Lam Vel  ; 2.20;  4400;occ; 107;   0;18887
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   6;-2447.7; 10-OCT-2005 15:16:44; Bright;  34.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  69;   0;18888
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   8;-2026.5; 10-OCT-2005 15:23:45; Bright;  36.0;   82; 48Bet UMa  ; 2.37; 10600;occ;  72;   0;18888
   9;-1827.2; 10-OCT-2005 15:27:05; Bright;  36.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  73;   0;18888
  10;-1376.7; 10-OCT-2005 15:34:35; Bright;  35.5;   51; 41Gam1Leo  ; 2.01;  4500;occ;  71;   0;18888
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  14; -140.6; 10-OCT-2005 17:35:47; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;18889
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