GOMOS Daily Report 15-SEP-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	16SEP2005 05:04:09

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (15SEP2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (16SEP2005 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)

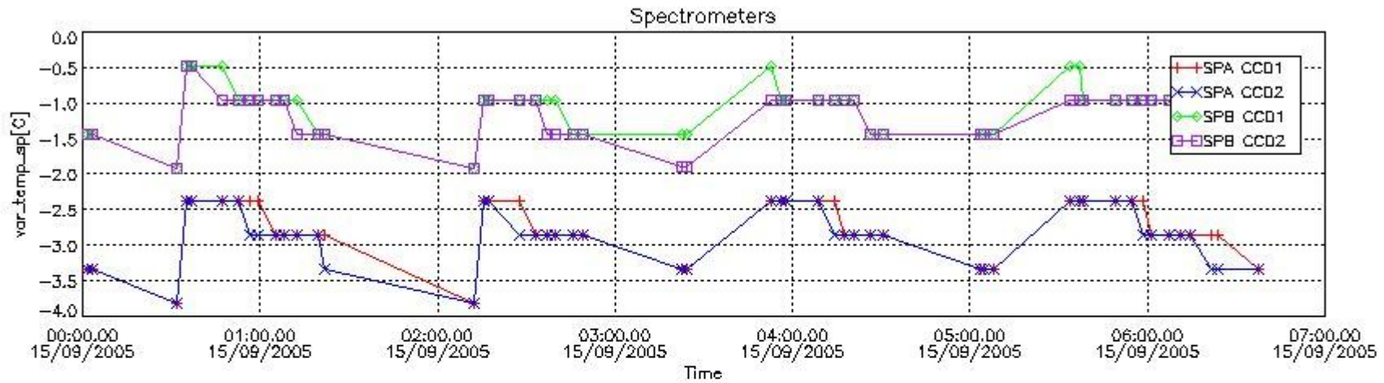
2.1 Level 0 products arrived in PCF (see template here)

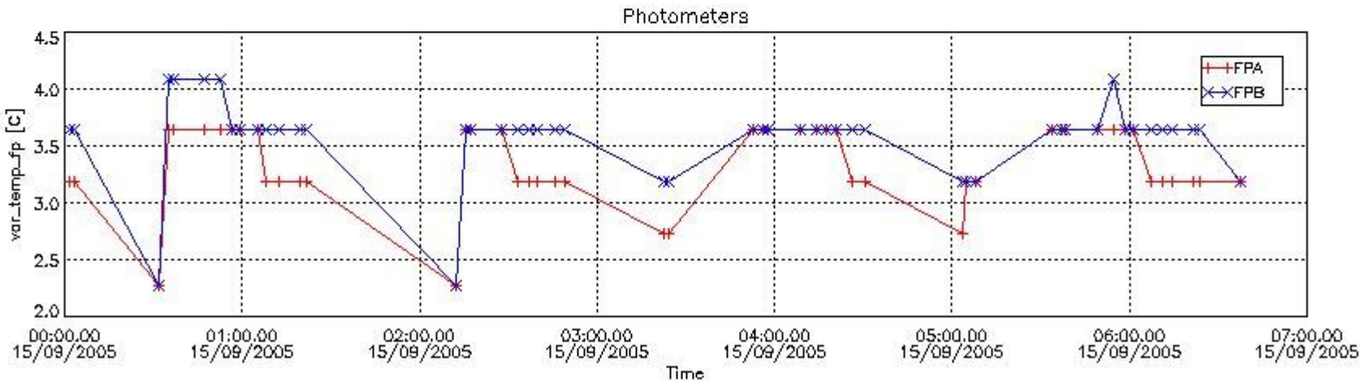
2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20050915_000138_000000362040_00431_18521_0003.N1	15-SEP-2005 00:01:38	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18521	No
2	GOM_TRA_1PNPDE20050915_000304_000000352040_00431_18521_0004.N1	15-SEP-2005 00:03:04	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	18521	No
3	GOM_TRA_1PNPDE20050915_003150_000000432040_00431_18521_0000.N1	15-SEP-2005 00:31:50	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	18521	No
4	GOM_TRA_1PNPDE20050915_003507_000000402040_00431_18521_0001.N1	15-SEP-2005 00:35:07	Dark	39.500	46	Del Vel	1.9540	10600.	79	18521	No
5	GOM_TRA_1PNPDE20050915_003638_000000432040_00431_18521_0002.N1	15-SEP-2005 00:36:38	Dark	43.000	41	Eps Car	1.8600	4100.0	86	18521	No
6	GOM_TRA_1PNPDE20050915_004715_000000382040_00432_18522_0003.N1	15-SEP-2005 00:47:15	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	18522	No
7	GOM_TRA_1PNPDE20050915_005248_000000392040_00432_18522_0004.N1	15-SEP-2005 00:52:48	Dark	38.500	148	Alp Tuc	2.8780	4100.0	77	18522	No
8	GOM_TRA_1PNPDE20050915_005631_000000402040_00432_18522_0005.N1	15-SEP-2005 00:56:31	Twilight	39.500	31	Alp Gru	1.7340	15200.	79	18522	No
9	GOM_TRA_1PNPDE20050915_005918_000000382040_00432_18522_0006.N1	15-SEP-2005 00:59:18	Bright	37.500	172	Gam Gru	3.0030	13100.	75	18522	No
10	GOM_TRA_1PNPDE20050915_010515_000000402040_00432_18522_0007.N1	15-SEP-2005 01:05:15	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	18522	No
11	GOM_TRA_1PNPDE20050915_010820_000000382040_00432_18522_0008.N1	15-SEP-2005 01:08:20	Bright	37.500	154	22Bet Aqr	2.8990	5700.0	75	18522	No
12	GOM_TRA_1PNPDE20050915_011229_000000382040_00432_18522_0009.N1	15-SEP-2005 01:12:29	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	18522	No
13	GOM_TRA_1PNPDE20050915_011946_000000352040_00432_18522_0010.N1	15-SEP-2005 01:19:46	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	18522	No
14	GOM_TRA_1PNPDE20050915_012152_000000372040_00432_18522_0011.N1	15-SEP-2005 01:21:52	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	18522	No
15	GOM_TRA_1PNPDE20050915_021226_000000402040_00432_18522_0000.N1	15-SEP-2005 02:12:26	Dark	40.000	65	Lam Vel	2.2040	4400.0	80	18522	No
16	GOM_TRA_1PNPDE20050915_021543_000000372040_00432_18522_0001.N1	15-SEP-2005 02:15:43	Dark	36.500	46	Del Vel	1.9540	10600.	73	18522	No
17	GOM_TRA_1PNPDE20050915_021715_000000472040_00432_18522_0002.N1	15-SEP-2005 02:17:15	Dark	46.500	41	Eps Car	1.8600	4100.0	93	18522	No
18	GOM_TRA_1PNPDE20050915_022751_000000372040_00433_18523_0003.N1	15-SEP-2005 02:27:51	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	18523	No
19	GOM_TRA_1PNPDE20050915_023324_000000372040_00433_18523_0004.N1	15-SEP-2005 02:33:24	Dark	37.000	148	Alp Tuc	2.8780	4100.0	74	18523	No
20	GOM_TRA_1PNPDE20050915_023707_000000372040_00433_18523_0005.N1	15-SEP-2005 02:37:07	Twilight	37.000	31	Alp Gru	1.7340	15200.	74	18523	No
21	GOM_TRA_1PNPDE20050915_023954_000000372040_00433_18523_0006.N1	15-SEP-2005 02:39:54	Bright	37.000	172	Gam Gru	3.0030	13100.	74	18523	No
22	GOM_TRA_1PNPDE20050915_024551_000000392040_00433_18523_0007.N1	15-SEP-2005 02:45:51	Bright	39.000	142	49Del Cap	2.8500	8900.0	78	18523	No
23	GOM_TRA_1PNPDE20050915_024856_000000372040_00433_18523_0008.N1	15-SEP-2005 02:48:56	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	18523	No
24	GOM_TRA_1PNPDE20050915_032250_000000372040_00433_18523_0000.N1	15-SEP-2005 03:22:50	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	18523	No
25	GOM_TRA_1PNPDE20050915_032416_000000432040_00433_18523_0001.N1	15-SEP-2005 03:24:16	Bright	42.500	82	48Bet UMa	2.3650	10600.	85	18523	No
26	GOM_TRA_1PNPDE20050915_035303_000000422040_00433_18523_0002.N1	15-SEP-2005 03:53:03	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	18523	No
27	GOM_TRA_1PNPDE20050915_035620_000000382040_00433_18523_0003.N1	15-SEP-2005 03:56:20	Dark	38.000	46	Del Vel	1.9540	10600.	76	18523	No
28	GOM_TRA_1PNPDE20050915_035751_000000442040_00433_18523_0004.N1	15-SEP-2005 03:57:51	Dark	43.500	41	Eps Car	1.8600	4100.0	87	18523	No
29	GOM_TRA_1PNPDE20050915_040827_000000382040_00434_18524_0005.N1	15-SEP-2005 04:08:27	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	18524	No
30	GOM_TRA_1PNPDE20050915_041400_000000412040_00434_18524_0006.N1	15-SEP-2005 04:14:00	Dark	40.500	148	Alp Tuc	2.8780	4100.0	81	18524	No
31	GOM_TRA_1PNPDE20050915_041744_000000432040_00434_18524_0007.N1	15-SEP-2005 04:17:44	Twilight	43.000	31	Alp Gru	1.7340	15200.	86	18524	No
32	GOM_TRA_1PNPDE20050915_042031_000000382040_00434_18524_0008.N1	15-SEP-2005 04:20:31	Bright	37.500	172	Gam Gru	3.0030	13100.	75	18524	No
33	GOM_TRA_1PNPDE20050915_042627_000000372040_00434_18524_0009.N1	15-SEP-2005 04:26:27	Bright	37.000	142	49Del Cap	2.8500	8900.0	74	18524	No
34	GOM_TRA_1PNPDE20050915_043042_000000102040_00434_18524_0010.N1	15-SEP-2005 04:30:42	Twilight	10.000	162	34Alp Aqr	2.9440	5350.0	20	18524	No
35	GOM_TRA_1PNPDE20050915_050327_000000362040_00434_18524_0000.N1	15-SEP-2005 05:03:27	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18524	No
36	GOM_TRA_1PNPDE20050915_050453_000000522040_00434_18524_0001.N1	15-SEP-2005 05:04:53	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	18524	No
37	GOM_TRA_1PNPDE20050915_050758_000000092040_00434_18524_0002.N1	15-SEP-2005 05:07:58	Twilight	9.0000	174	52Psi UMa	3.0040	4400.0	18	18524	No
38	GOM_TRA_1PNPDE20050915_053339_000000422040_00434_18524_0003.N1	15-SEP-2005 05:33:39	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	18524	No
39	GOM_TRA_1PNPDE20050915_053656_000000392040_00434_18524_0004.N1	15-SEP-2005 05:36:56	Dark	39.000	46	Del Vel	1.9540	10600.	78	18524	No
40	GOM_TRA_1PNPDE20050915_053827_000000422040_00434_18524_0005.N1	15-SEP-2005 05:38:27	Dark	42.000	41	Eps Car	1.8600	4100.0	84	18524	No
41	GOM_TRA_1PNPDE20050915_054903_000000372040_00435_18525_0006.N1	15-SEP-2005 05:49:03	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18525	No
42	GOM_TRA_1PNPDE20050915_055436_000000462040_00435_18525_0007.N1	15-SEP-2005 05:54:36	Dark	45.500	148	Alp Tuc	2.8780	4100.0	91	18525	No
43	GOM_TRA_1PNPDE20050915_055820_000000392040_00435_18525_0008.N1	15-SEP-2005 05:58:20	Twilight	38.500	31	Alp Gru	1.7340	15200.	77	18525	No
44	GOM_TRA_1PNPDE20050915_060107_000000372040_00435_18525_0009.N1	15-SEP-2005 06:01:07	Bright	36.500	172	Gam Gru	3.0030	13100.	73	18525	No
45	GOM_TRA_1PNPDE20050915_060703_000000412040_00435_18525_0010.N1	15-SEP-2005 06:07:03	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	18525	No
46	GOM_TRA_1PNPDE20050915_061118_000000102040_00435_18525_0011.N1	15-SEP-2005 06:11:18	Twilight	10.000	162	34Alp Aqr	2.9440	5350.0	20	18525	No

47	GOM_TRA_1PNPDE20050915_061418_000000382040_00435_18525_0012.N1	15-SEP-2005 06:14:18	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	18525	No
48	GOM_TRA_1PNPDE20050915_062135_000000392040_00435_18525_0013.N1	15-SEP-2005 06:21:35	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	18525	No
49	GOM_TRA_1PNPDE20050915_062341_000000372040_00435_18525_0014.N1	15-SEP-2005 06:23:41	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	18525	No
50	GOM_TRA_1PNPDE20050915_063739_000000382040_00435_18525_0015.N1	15-SEP-2005 06:37:39	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	18525	No

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





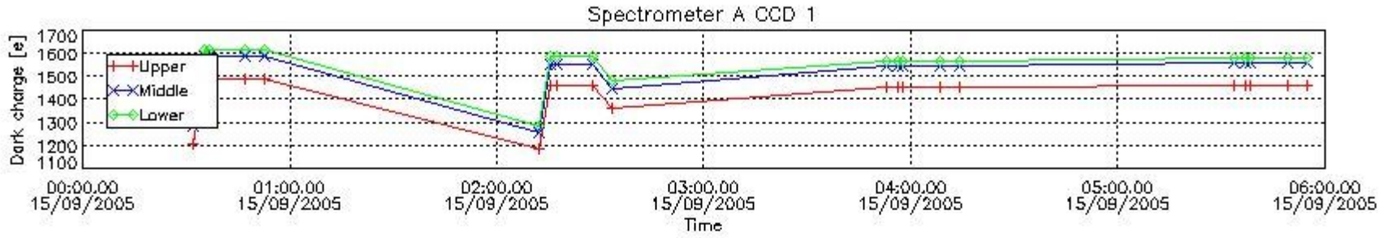
4. Overview of dark signal processing per product

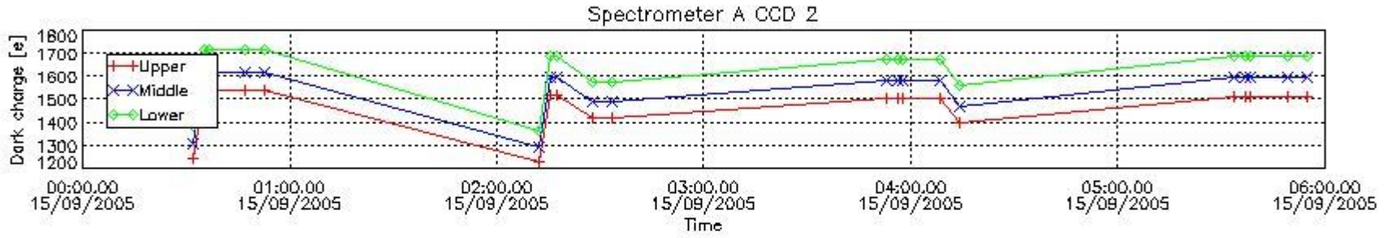
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

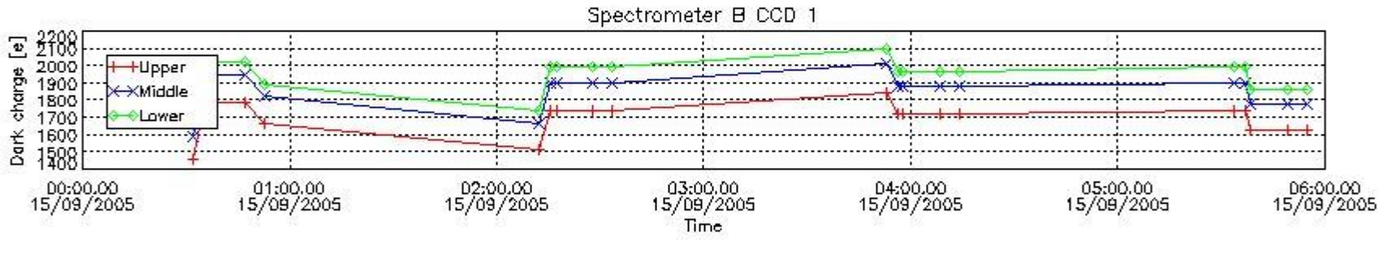
4.1 These products did not use the DSA observation for DC computation:

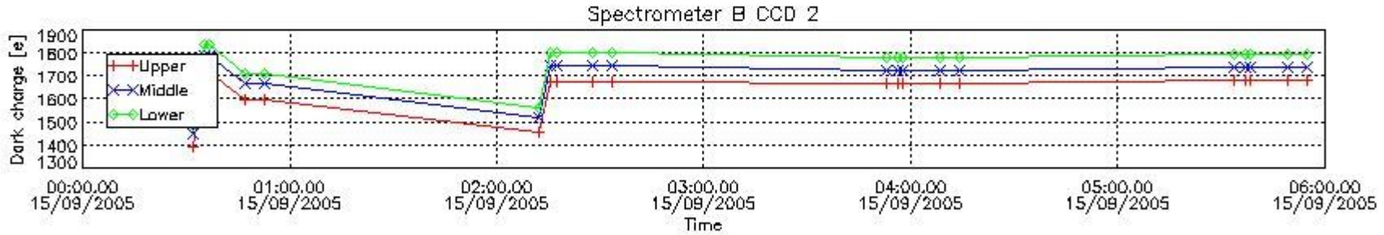
Product name	DC information
GOM_TRA_1PNPDE20050915_000138_000000362040_00431_18521_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20050915_000304_000000352040_00431_18521_0004.N1	DC map used (0)

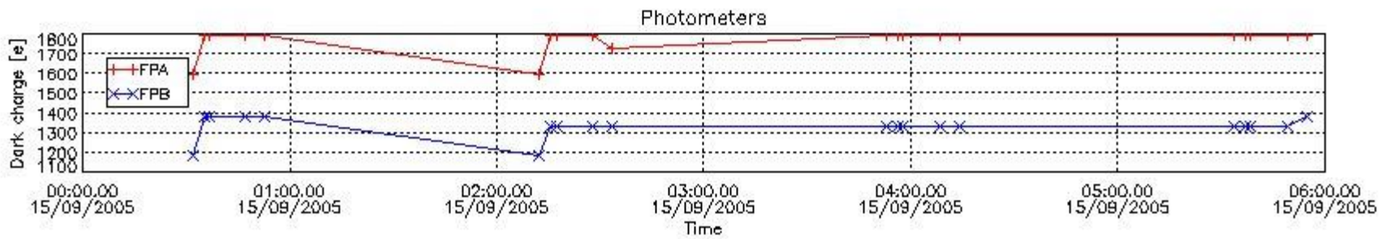
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











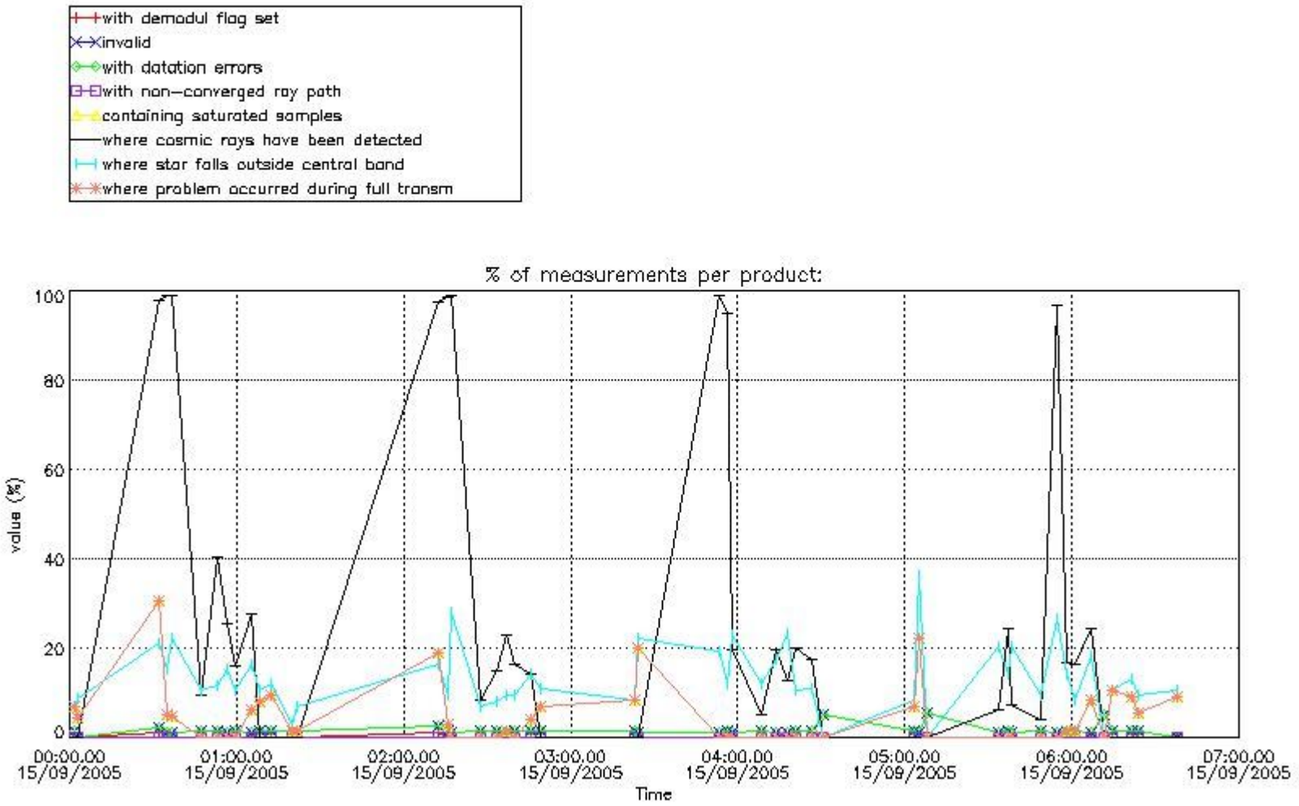
5. Demodulation flag and quality information monitoring

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.

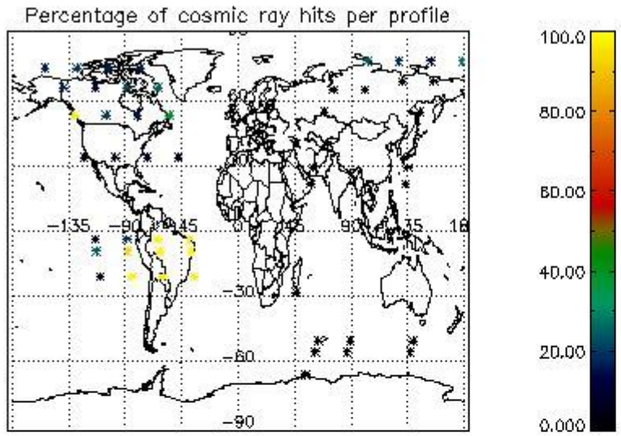
5.1 Percentage of products during reporting period with:

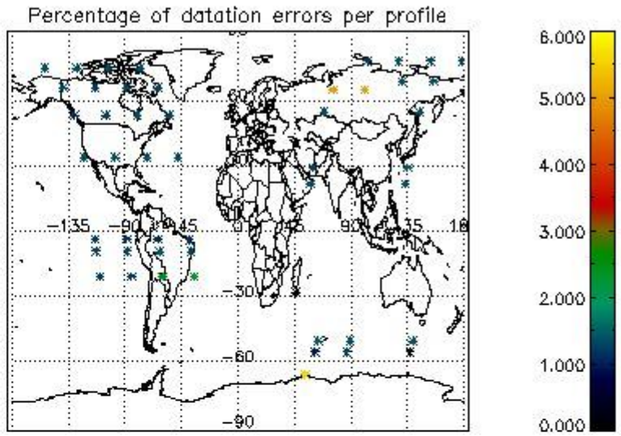
At least one measurement with demodulation flag set:	28.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

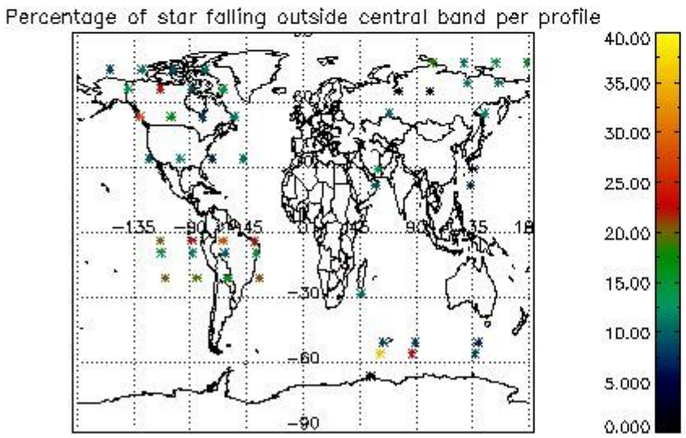
5.2 Plot quality information per product (time dependant)

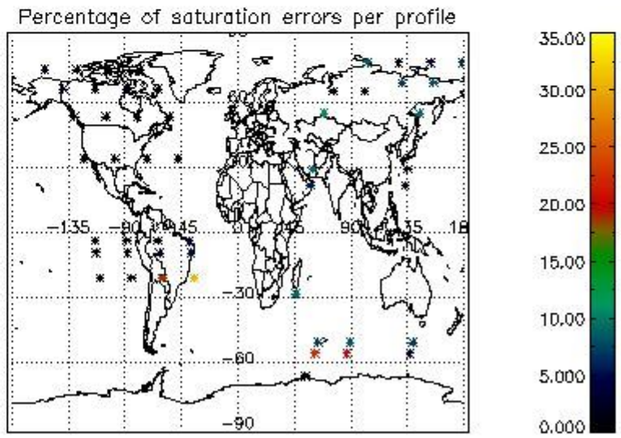


5.3 Plot quality information per product (world map)









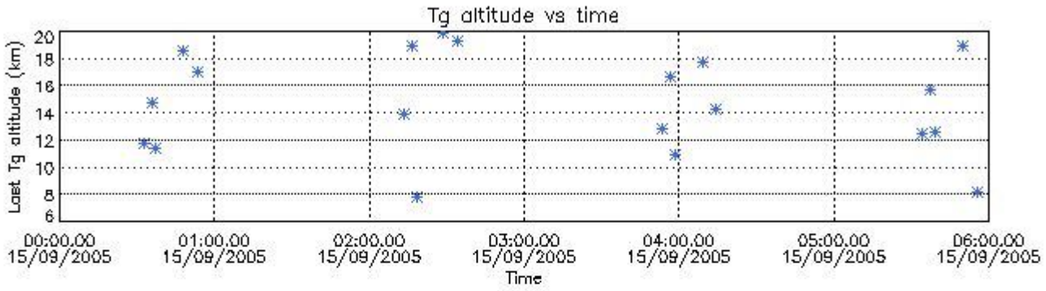
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

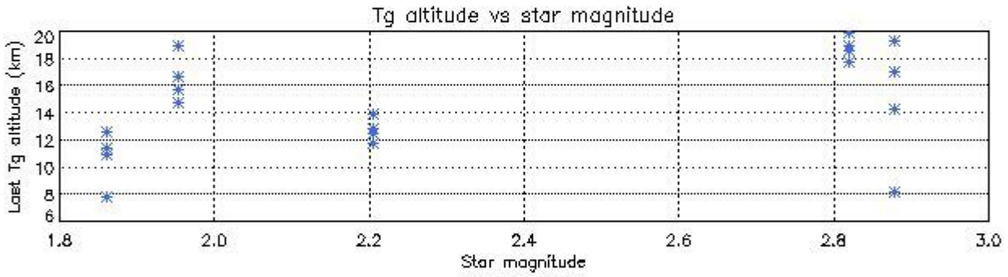
6.1 Statistics on tangent altitude lost:

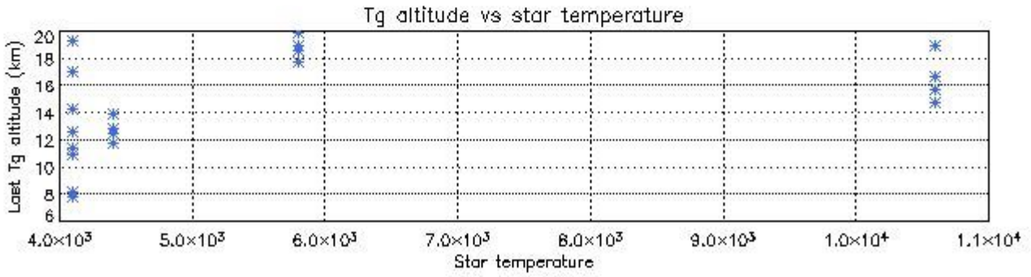
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.658	17.215	52.113
St. deviation:	3.6731	4.0954	45.829
Maximum:	19.861	23.260	104.27
Minimum:	7.8517	3.7900	11.365
Number of data:	20.000	23.000	7.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

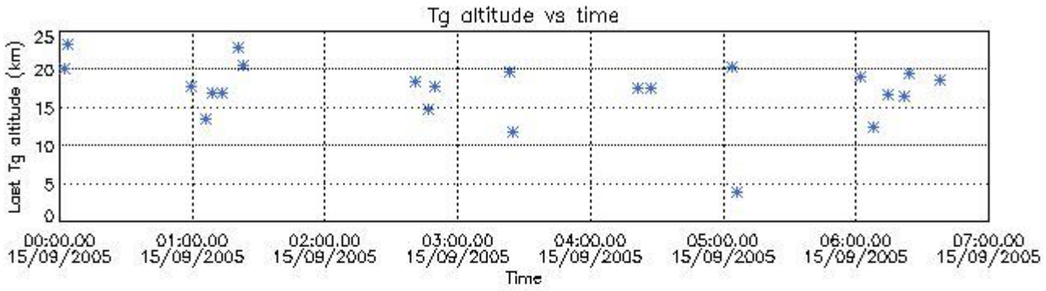


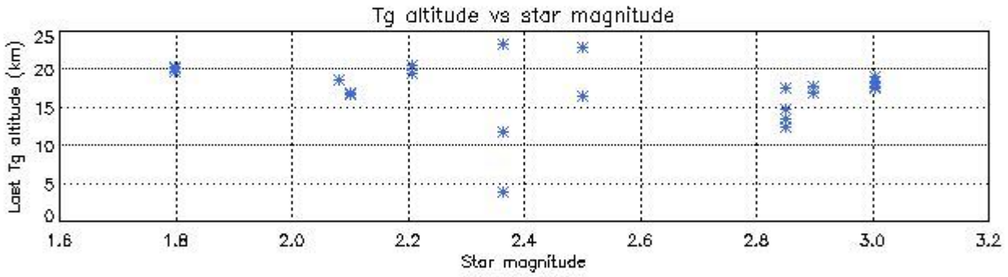


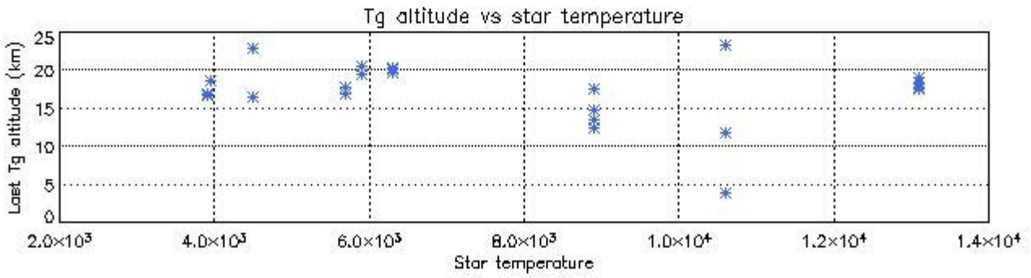


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

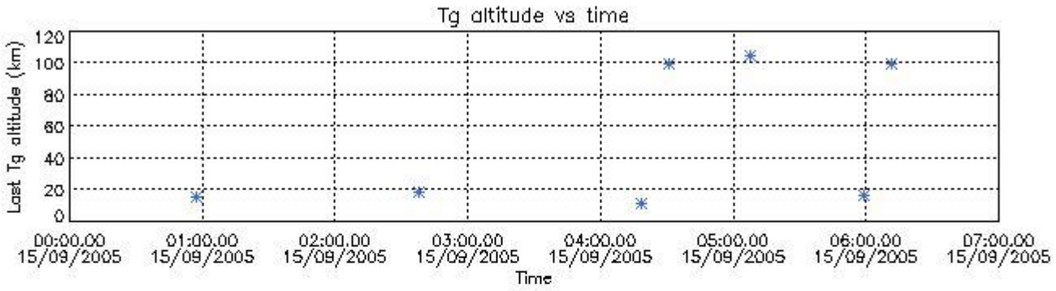


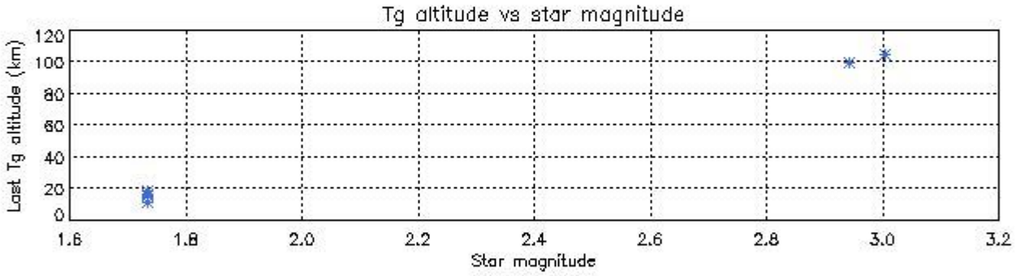


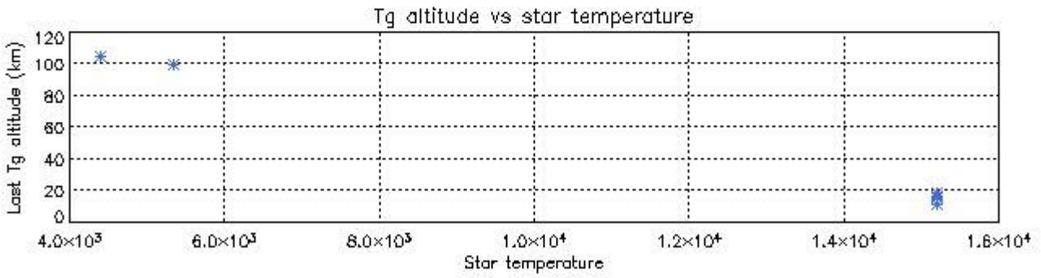


6.3 Plot for TWILIGHT limb products

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

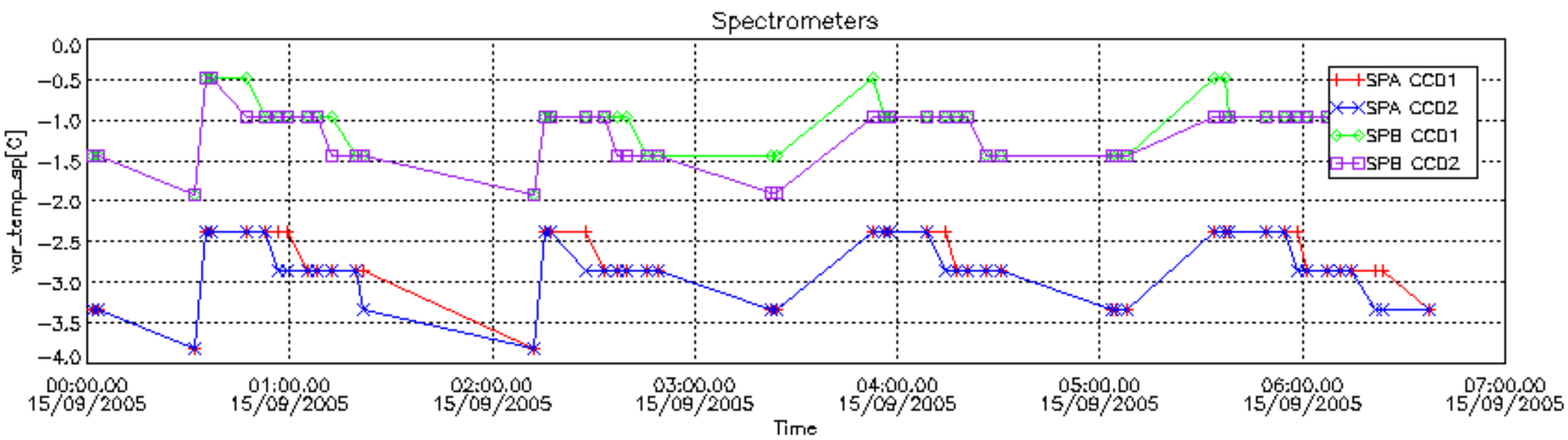
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.
Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1458.7	1444.9	1459.1	1446.5
St. deviation:	4.4394	9.9472	8.4306	15.836
Maximum:	1487.0	1482.0	1519.0	1519.0
Minimum:	1446.0	1416.0	1448.0	1426.0
Number of data:	16700.	16700.	19000.	19000.

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	15-SEP-2005 00:01:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050908_122716_20050907_000000_20100101_000000	1	15-SEP-2005 00:01:38
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	15-SEP-2005 00:01:38
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-SEP-2005 00:01:38
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	15-SEP-2005 00:01:38
ECMWF_FILE	AUX_ECF_AXNECM20050914_060546_20050914_210000_20050915_090000	1	15-SEP-2005 00:01:38
ECMWF_FILE	AUX_ECA_AXNECM20050915_071216_20050914_210000_20050915_090000	12	15-SEP-2005 01:12:29
ECMWF_FILE	AUX_ECF_AXNECM20050914_060546_20050914_210000_20050915_090000	15	15-SEP-2005 02:12:26
ECMWF_FILE	AUX_ECF_AXNECM20050914_192518_20050915_030000_20050915_150000	24	15-SEP-2005 03:22:50
ECMWF_FILE	AUX_ECA_AXNECM20050915_071216_20050914_210000_20050915_090000	35	15-SEP-2005 05:03:27
OPTIONAL_ECMWF_FILE	NOT USED	1	15-SEP-2005 00:01:38
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050914_224518_20050914_193557_20050924_210212	1	15-SEP-2005 00:01:38


Spectrometers
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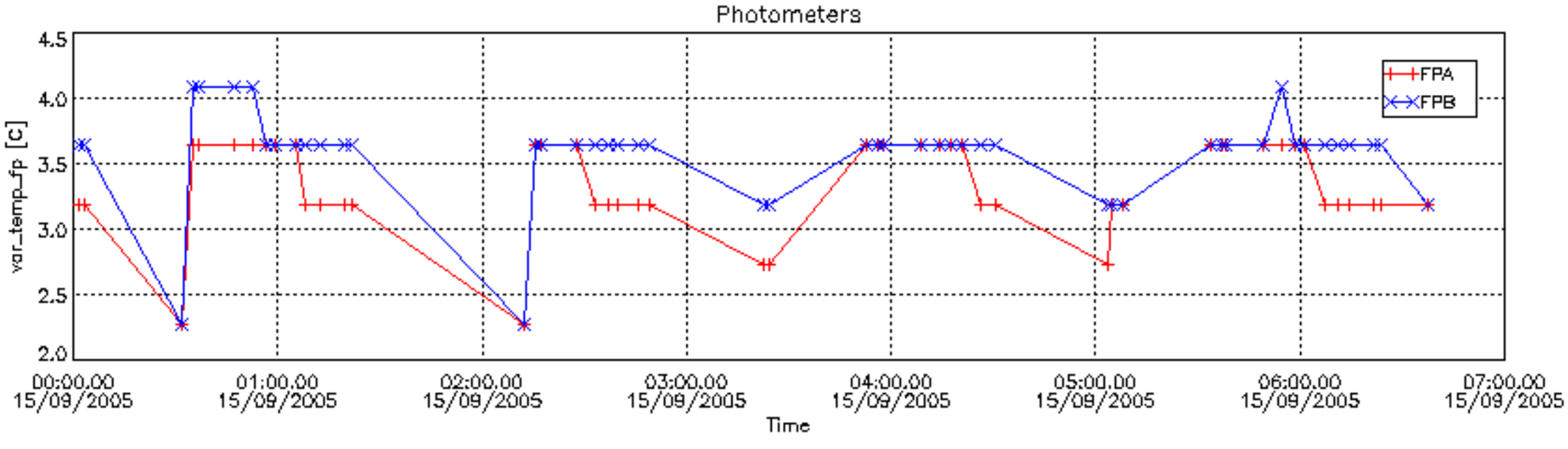
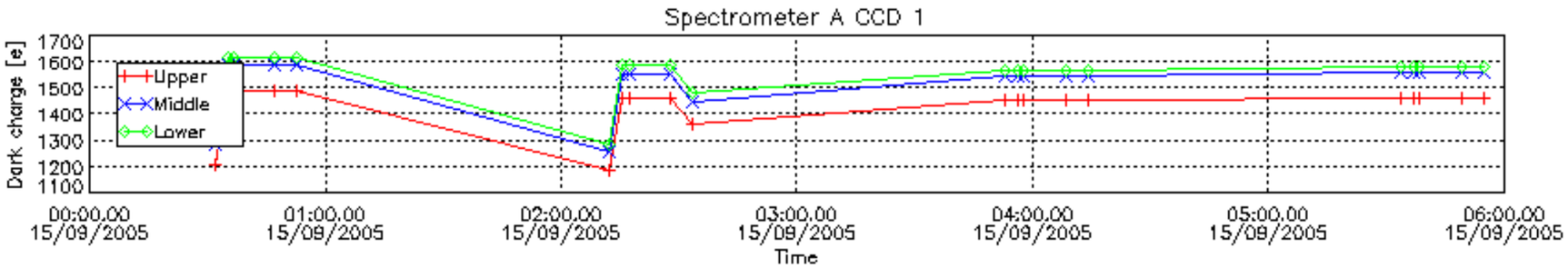
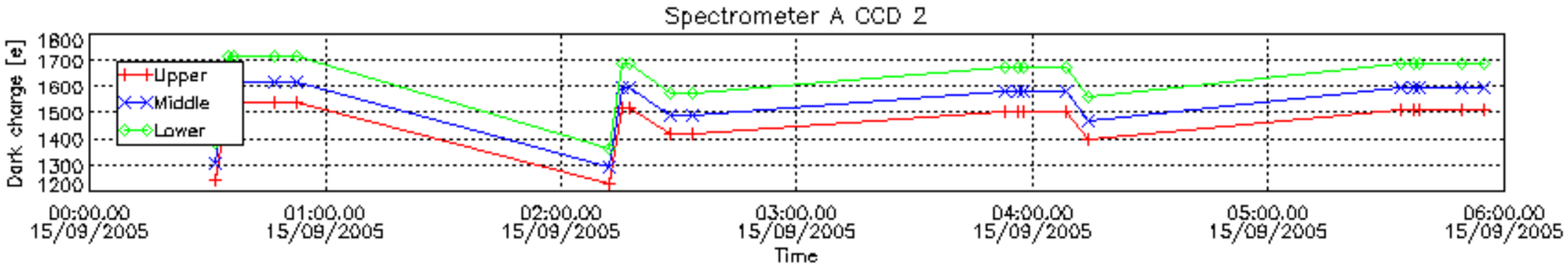
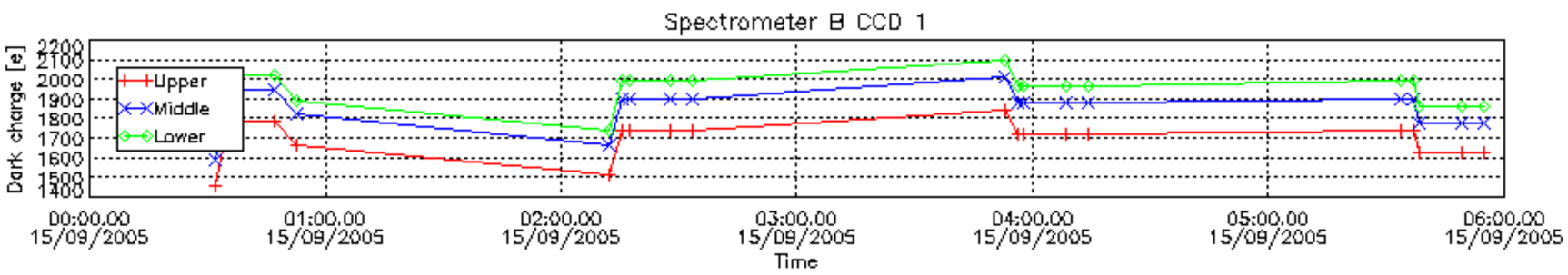
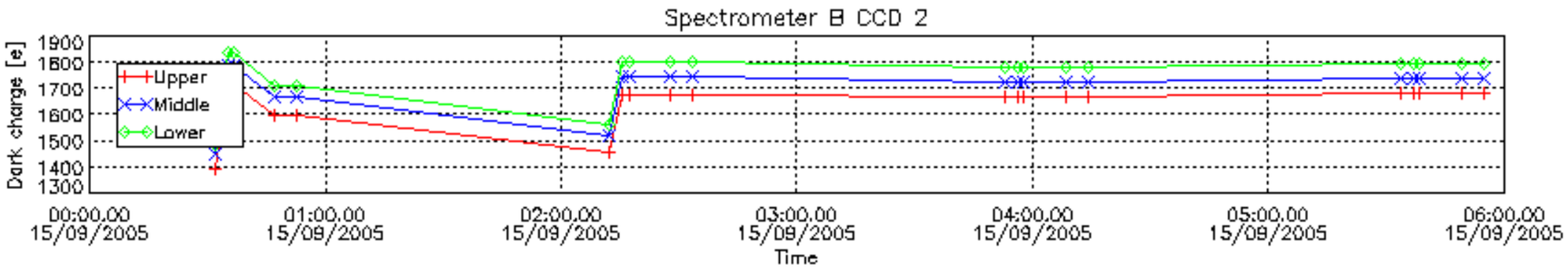
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
−3.5
−4.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
15/09/2005
01:00.00
02:00.00
03:00.00
04:00.00
05:00.00
06:00.00
07:00.00
Time

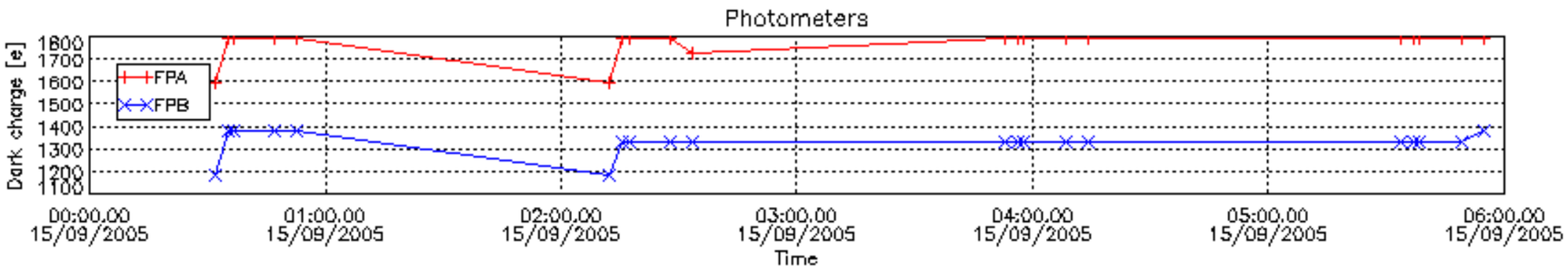

Photometers
var_temp_fp [C]
4.5
4.0
3.5
3.0
2.5
2.0
FPA
FPB
00:00.00
15/09/2005
01:00.00
02:00.00
03:00.00
04:00.00
05:00.00
06:00.00
07:00.00
Time


Spectrometer A CCD 1
Dark charge [e]
1700
1600
1500
1400
1300
1200
1100
Upper
Middle
Lower
00:00.00 15/09/2005
01:00.00 15/09/2005
02:00.00 15/09/2005
03:00.00 15/09/2005
04:00.00 15/09/2005
05:00.00 15/09/2005
06:00.00 15/09/2005
Time


Spectrometer A CCD 2
Dark charge [e]
1800
1700
1600
1500
1400
1300
1200
Upper
Middle
Lower
00:00.00 15/09/2005
01:00.00 15/09/2005
02:00.00 15/09/2005
03:00.00 15/09/2005
04:00.00 15/09/2005
05:00.00 15/09/2005
06:00.00 15/09/2005
Time

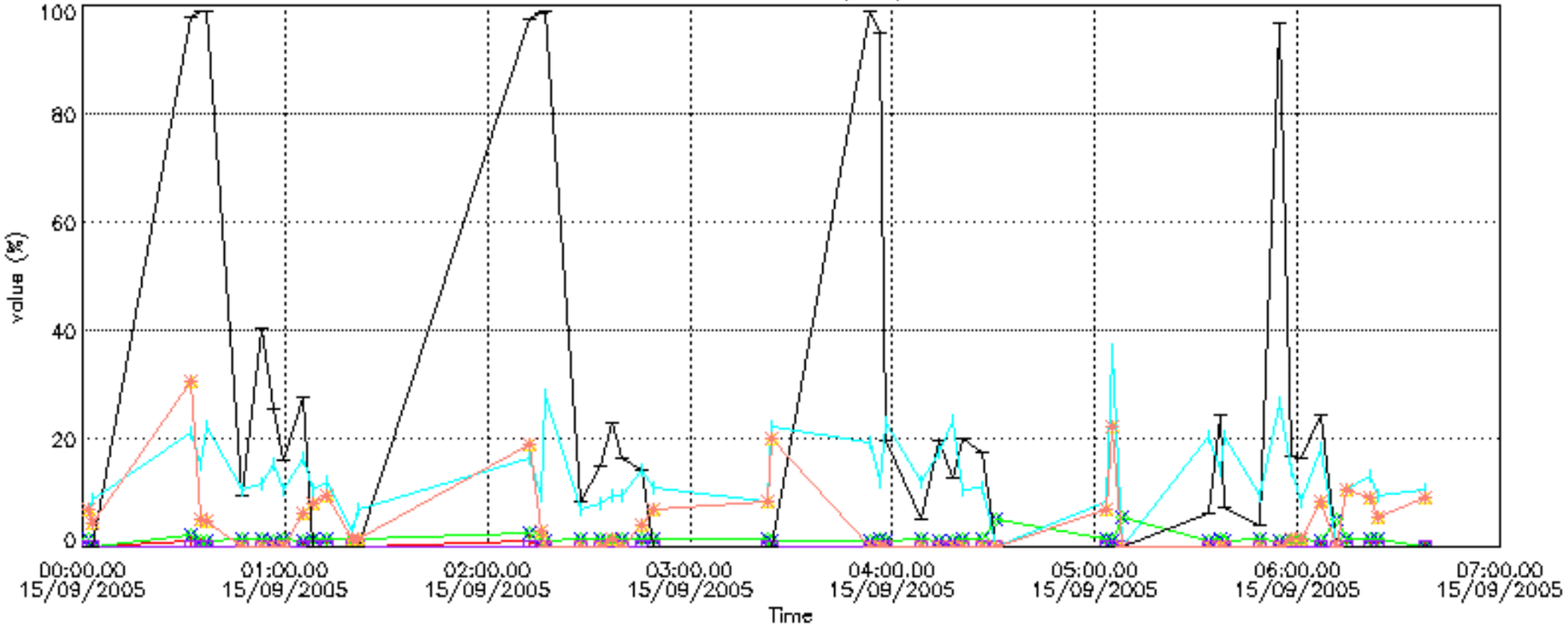

Spectrometer B CCD 1
Dark charge [e]
2200
2100
2000
1900
1800
1700
1600
1500
1400
Upper
Middle
Lower
00:00.00 15/09/2005
01:00.00 15/09/2005
02:00.00 15/09/2005
03:00.00 15/09/2005
04:00.00 15/09/2005
05:00.00 15/09/2005
06:00.00 15/09/2005
Time

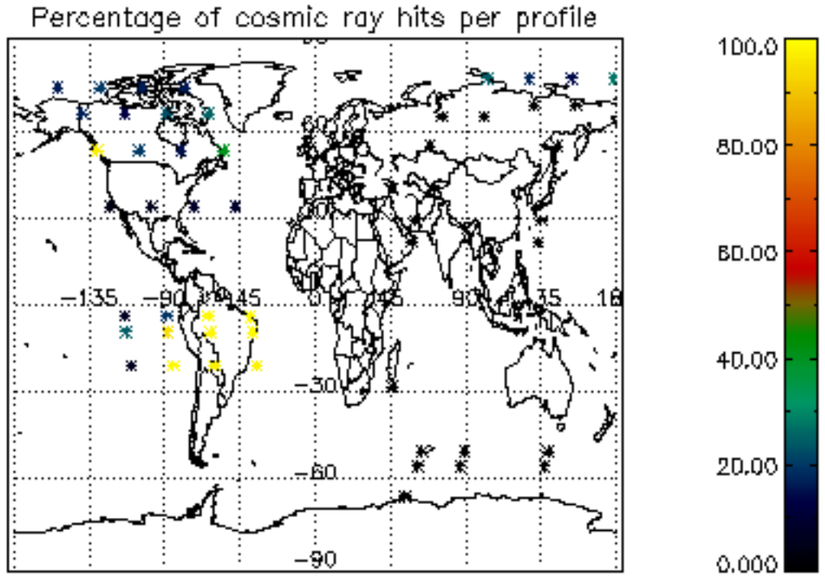

Spectrometer B CCD 2
Dark charge [e]
1900
1800
1700
1600
1500
1400
1300
Upper
Middle
Lower
00:00.00 15/09/2005
01:00.00 15/09/2005
02:00.00 15/09/2005
03:00.00 15/09/2005
04:00.00 15/09/2005
05:00.00 15/09/2005
06:00.00 15/09/2005
Time

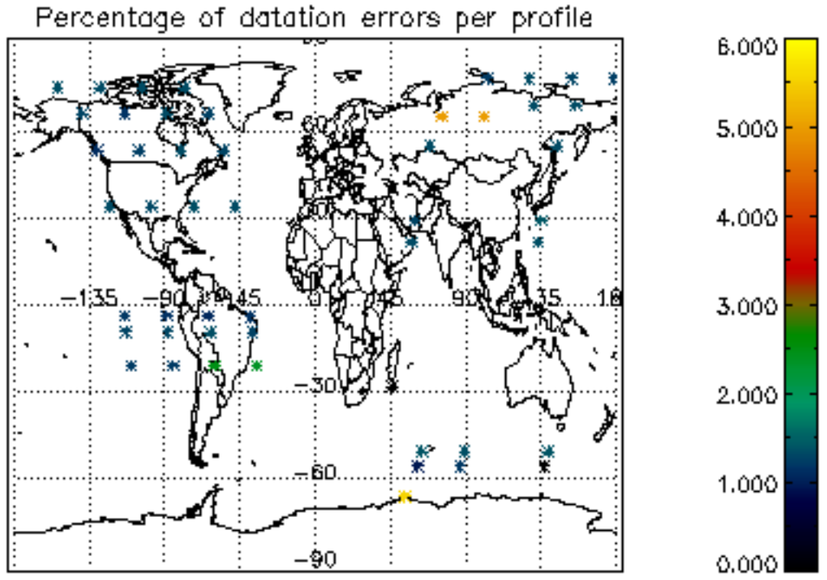

Photometers
Dark charge [e]
1800
1700
1600
1500
1400
1300
1200
1100
FPA
FPB
00:00.00 15/09/2005
01:00.00 15/09/2005
02:00.00 15/09/2005
03:00.00 15/09/2005
04:00.00 15/09/2005
05:00.00 15/09/2005
06:00.00 15/09/2005
Time

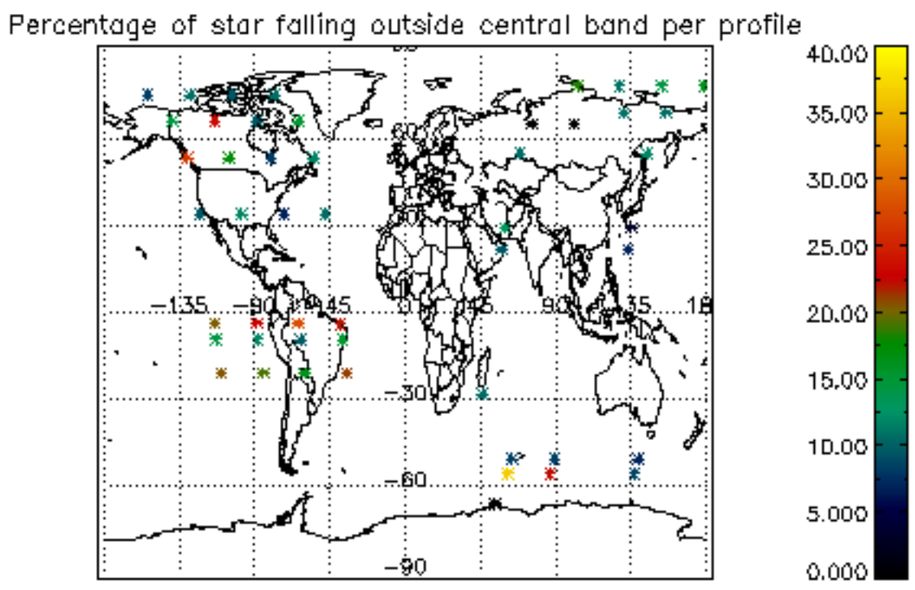
with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm

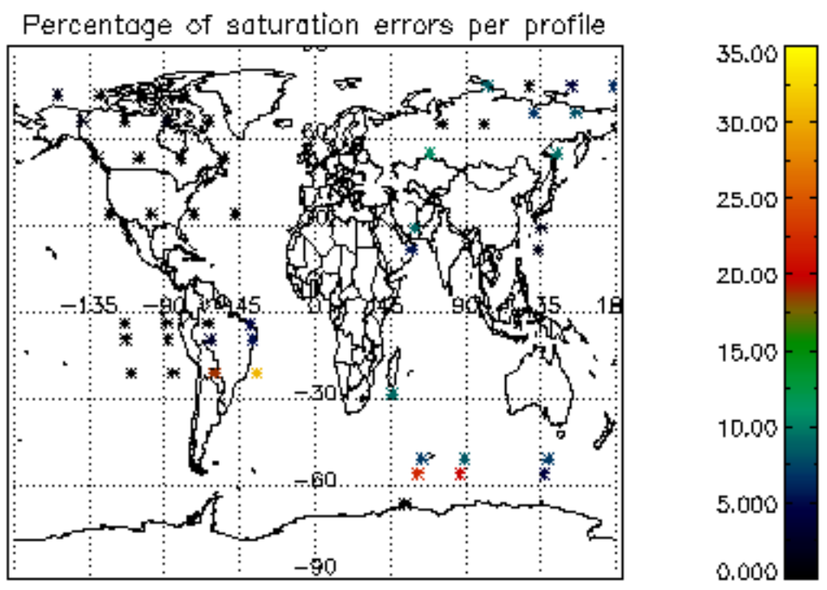
% of measurements per product:



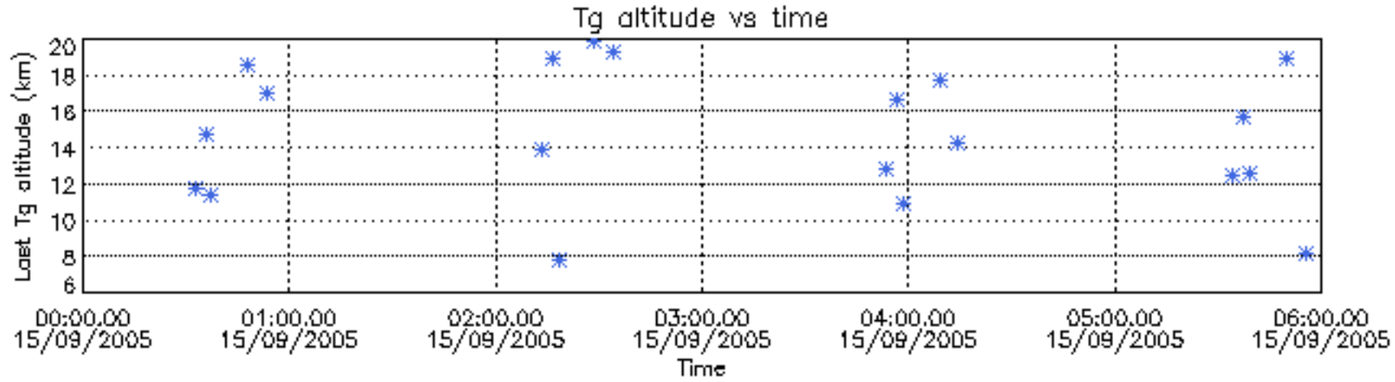

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

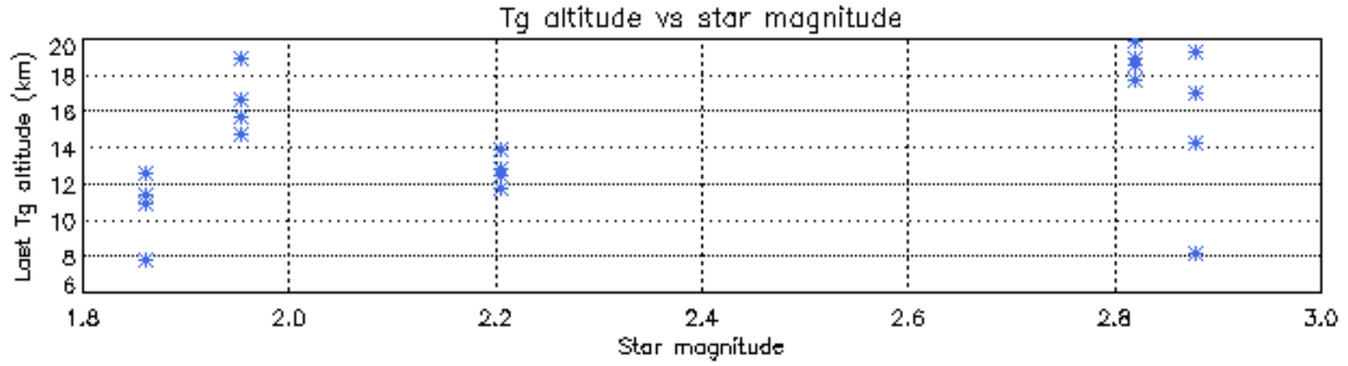

Percentage of datation errors per profile
6.000
5.000
4.000
3.000
2.000
1.000
0.000
−135
−90
−30
−60
−90

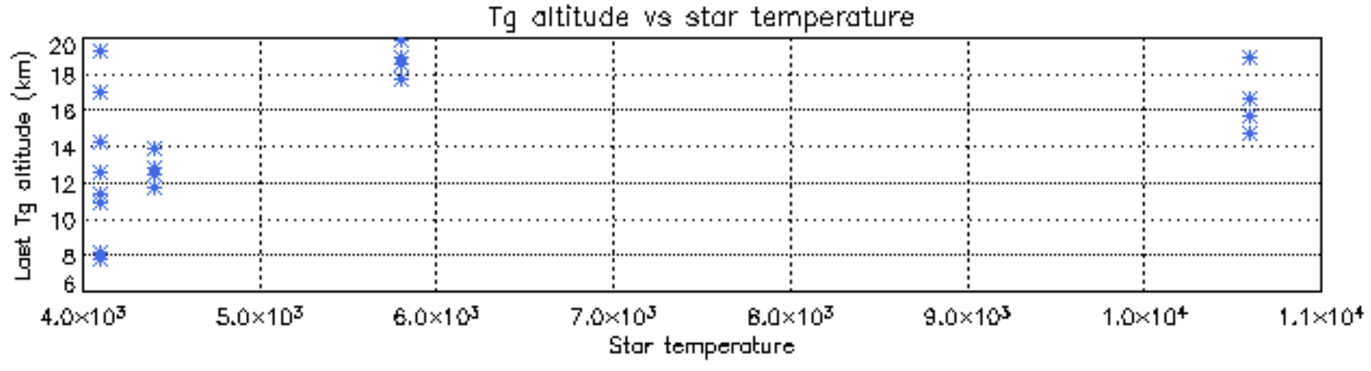

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


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

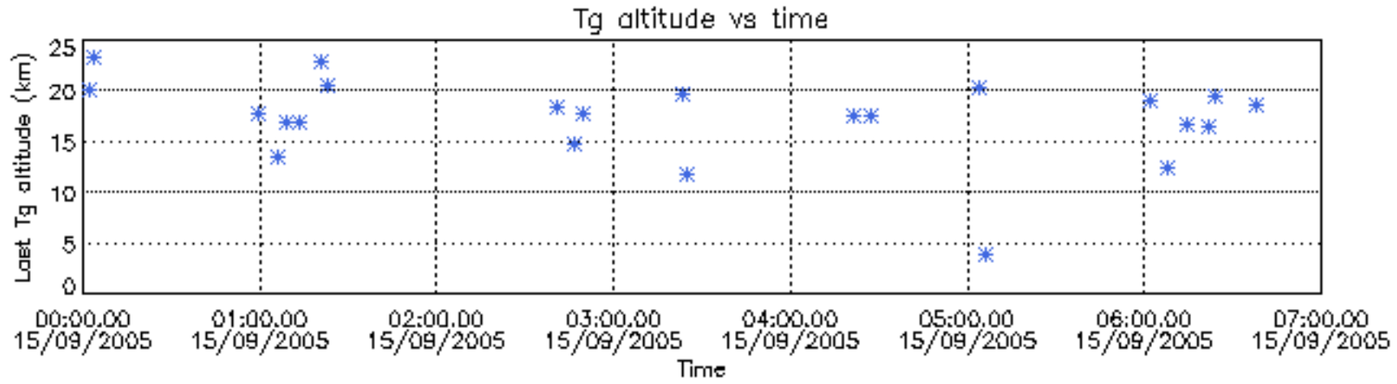
Tangent altitude at which the star is lost

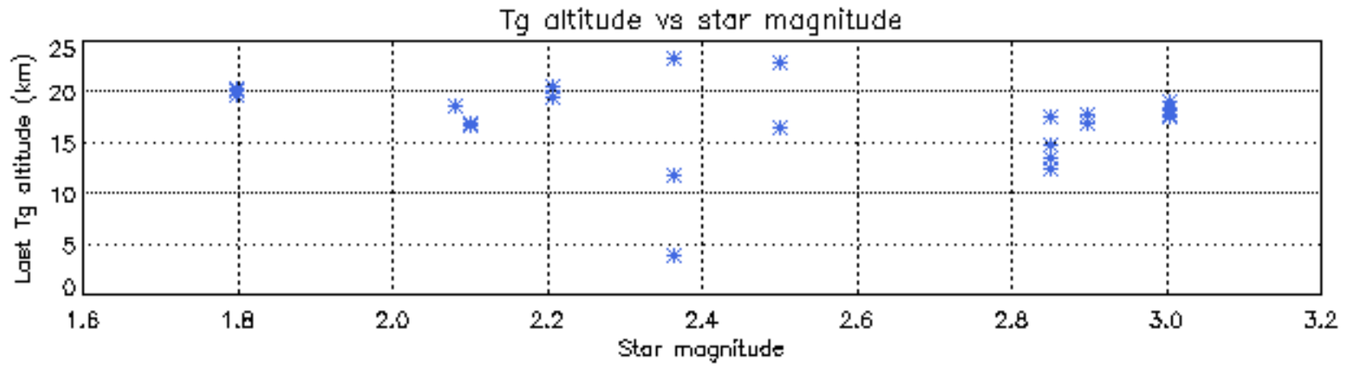


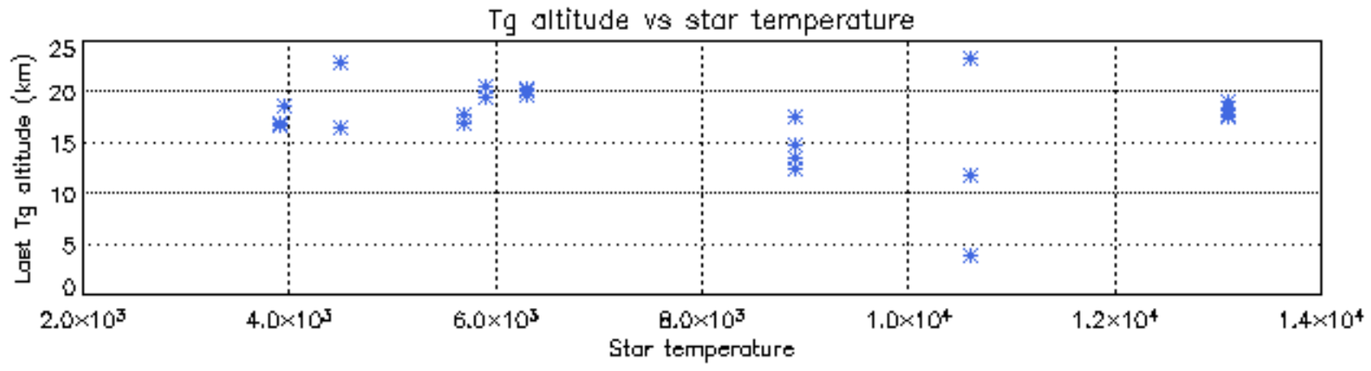




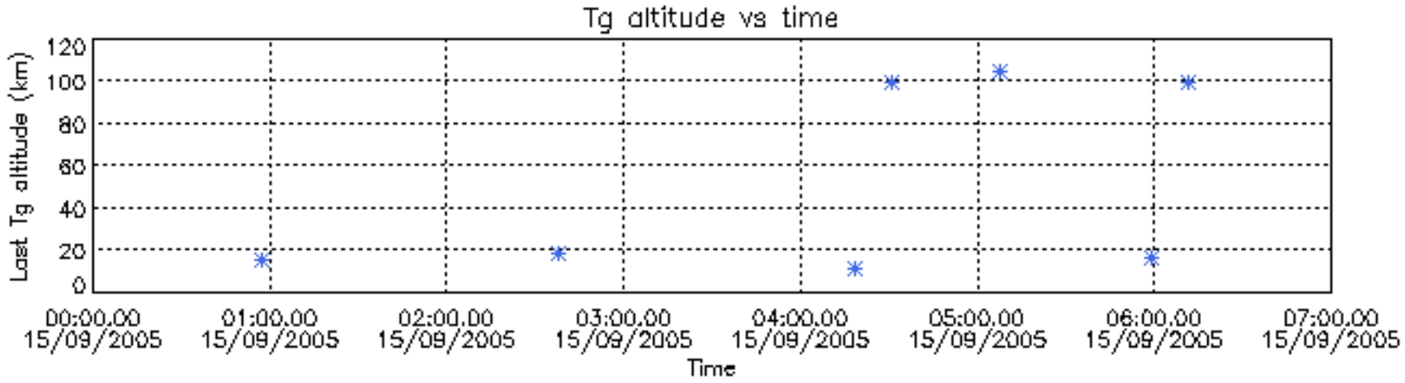
Tangent altitude at which the star is lost

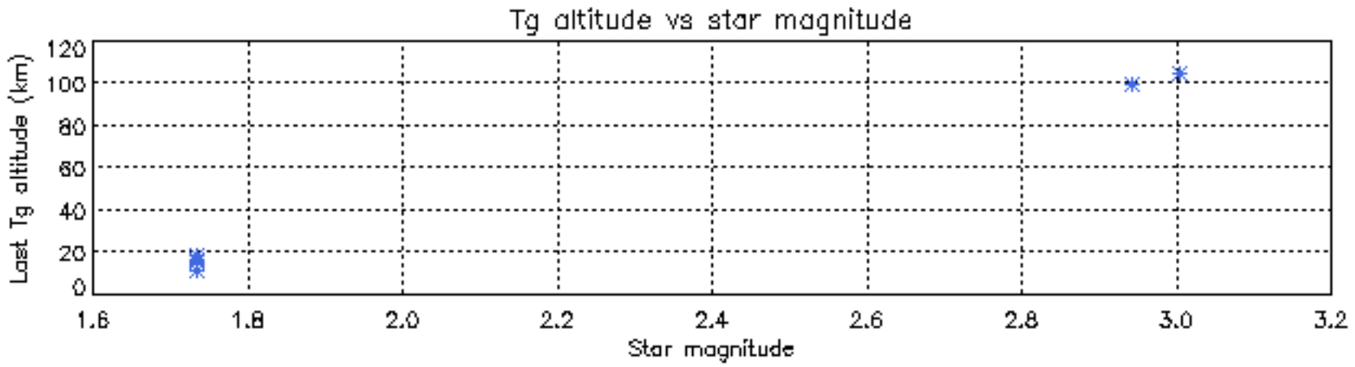


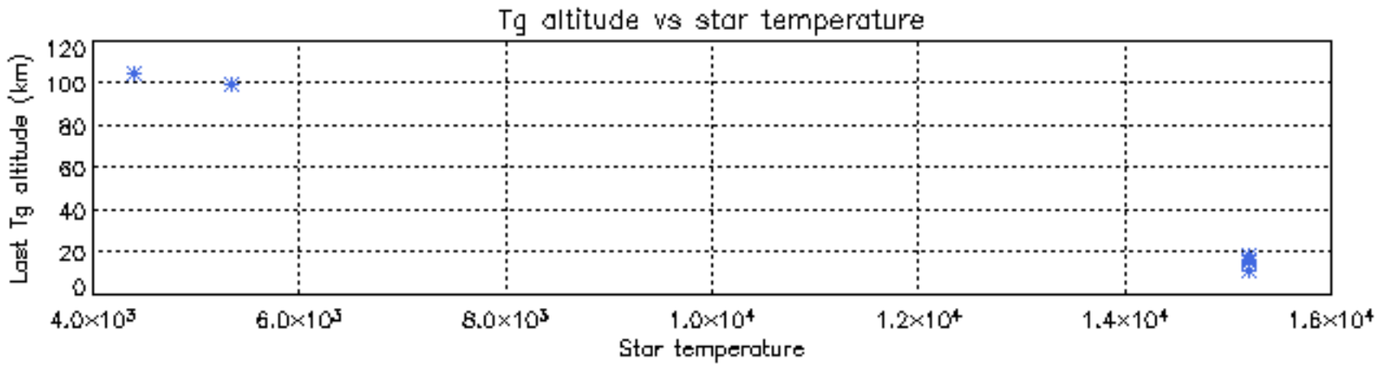




Tangent altitude at which the star is lost







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3; -403.8; 01-SEP-2005 06:13:03; Dark ; 39.0;   70;   Zet Pup ; 2.25; 39000;occ; 78;   0;18324
4; -276.3; 01-SEP-2005 06:15:11; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;18324
5; -93.0; 01-SEP-2005 06:18:14; Dark ; 38.5;   41;   Eps Car ; 1.86; 4100;occ; 77;   0;18324
6; 532.0; 01-SEP-2005 06:28:39; Dark ; 37.5; 135;   Bet Hyi ; 2.82; 5800;occ; 75;   0;18325
7; 866.3; 01-SEP-2005 06:34:13; Dark ; 47.0; 148;   Alp Tuc ; 2.88; 4100;occ; 94;   0;18325
8; 1085.9; 01-SEP-2005 06:37:53; Dark ; 41.5;   31;   Alp Gru ; 1.73; 15200;occ; 83;   0;18325
9; 1255.8; 01-SEP-2005 06:40:43; Dark ; 40.0; 172;   Gam Gru ; 3.00; 13100;occ; 80;   0;18325
10; 2601.3; 01-SEP-2005 07:03:08; Bright; 35.5;   66; 37Gam Cyg ; 2.21; 5900;occ; 71;   0;18325
11; 2706.4; 01-SEP-2005 07:04:53; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71;   0;18325
12; 3422.5; 01-SEP-2005 07:16:50; Bright; 37.0;   60; 7Bet UMi ; 2.08; 3950;occ; 74;   0;18325
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3; -277.5; 01-SEP-2005 01:13:22; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;18321
4; -93.2; 01-SEP-2005 01:16:26; Dark ; 42.0;   41;   Eps Car ; 1.86; 4100;occ; 84;   0;18321
5; 531.3; 01-SEP-2005 01:26:50; Dark ; 37.0; 135;   Bet Hyi ; 2.82; 5800;occ; 74;   0;18322
6; 865.6; 01-SEP-2005 01:32:25; Dark ; 39.0; 148;   Alp Tuc ; 2.88; 4100;occ; 78;   0;18322
7; 1085.1; 01-SEP-2005 01:36:04; Dark ; 37.0;   31;   Alp Gru ; 1.73; 15200;occ; 74;   0;18322
8; 1255.2; 01-SEP-2005 01:38:54; Dark ; 38.5; 172;   Gam Gru ; 3.00; 13100;occ; 77;   0;18322
9; 2600.7; 01-SEP-2005 02:01:20; Bright; 35.5;   66; 37Gam Cyg ; 2.21; 5900;occ; 71;   0;18322
10; 2705.5; 01-SEP-2005 02:03:05; Bright; 34.5; 144; 18Del Cyg ; 2.86; 11000;occ; 69;   0;18322
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6; 531.6; 01-SEP-2005 03:07:27; Dark ; 37.0; 135;   Bet Hyi ; 2.82; 5800;occ; 74;   0;18323
7; 865.9; 01-SEP-2005 03:13:01; Dark ; 40.0; 148;   Alp Tuc ; 2.88; 4100;occ; 80;   0;18323
8; 1085.5; 01-SEP-2005 03:16:40; Dark ; 39.0;   31;   Alp Gru ; 1.73; 15200;occ; 78;   0;18323
9; 1255.4; 01-SEP-2005 03:19:30; Dark ; 36.5; 172;   Gam Gru ; 3.00; 13100;occ; 73;   0;18323
10; 2601.0; 01-SEP-2005 03:41:56; Bright; 36.5;   66; 37Gam Cyg ; 2.21; 5900;occ; 73;   0;18323
11; 2705.9; 01-SEP-2005 03:43:41; Bright; 34.5; 144; 18Del Cyg ; 2.86; 11000;occ; 69;   0;18323
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6; 531.7; 01-SEP-2005 04:48:03; Dark ; 37.5; 135;   Bet Hyi ; 2.82; 5800;occ; 75;   0;18324
7; 866.1; 01-SEP-2005 04:53:37; Dark ; 38.0; 148;   Alp Tuc ; 2.88; 4100;occ; 76;   0;18324
8; 1085.7; 01-SEP-2005 04:57:17; Dark ; 38.5;   31;   Alp Gru ; 1.73; 15200;occ; 77;   0;18324
9; 1255.7; 01-SEP-2005 05:00:07; Dark ; 36.5; 172;   Gam Gru ; 3.00; 13100;occ; 73;   0;18324
10; 2601.2; 01-SEP-2005 05:22:32; Bright; 35.0;   66; 37Gam Cyg ; 2.21; 5900;occ; 70;   0;18324
11; 2706.0; 01-SEP-2005 05:24:17; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71;   0;18324
12; 3422.3; 01-SEP-2005 05:36:13; Bright; 33.5;   60; 7Bet UMi ; 2.08; 3950;occ; 67;   0;18324
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  10;-1858.4; 26-SEP-2005 14:26:11; Bright;  32.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  65;   0;18687
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  12; -896.9; 26-SEP-2005 14:42:13; Dark  ;  53.0;   48; 30Alp Hya  ; 1.98;  4100;occ; 106;   0;18687
  13; -315.6; 26-SEP-2005 14:51:54; Dark  ;  43.5;   65;   Lam Vel  ; 2.20;  4400;occ;  87;   0;18687
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  12; -896.5; 26-SEP-2005 16:22:49; Dark  ;  52.5;   48; 30Alp Hya  ; 1.98;  4100;occ; 105;   0;18688
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   4;-3869.4; 26-SEP-2005 17:13:52; Bright;  37.0;   90; 54Alp Peg  ; 2.49; 11000;occ;  74;   0;18689
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   7;-2606.4; 26-SEP-2005 17:34:55; Bright;  36.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  72;   0;18689
   8;-2501.4; 26-SEP-2005 17:36:40; Bright;  36.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  72;   0;18689
   9;-2137.8; 26-SEP-2005 17:42:44; Bright;  35.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  70;   0;18689
  10;-2048.5; 26-SEP-2005 17:44:13; Bright;  33.0;   82; 48Bet UMa  ; 2.37; 10600;occ;  66;   0;18689
  11;-1858.2; 26-SEP-2005 17:47:24; Bright;  33.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  67;   0;18689
  12;-1459.5; 26-SEP-2005 17:54:02; Bright;  35.0;  166; 17Eps Leo  ; 2.98;  6000;occ;  70;   0;18689
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  10;-1847.8; 30-SEP-2005 17:21:42; Bright;  32.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  65;   0;18746
  11;-1448.8; 30-SEP-2005 17:28:21; Bright;  35.5;  166; 17Eps Leo  ; 2.98;  6000;occ;  71;   0;18746
  12; -875.8; 30-SEP-2005 17:37:54; Dark  ;  45.5;   48; 30Alp Hya  ; 1.98;  4100;occ;  91;   0;18746
  13; -295.2; 30-SEP-2005 17:47:34; Dark  ;  41.0;   65;   Lam Vel  ; 2.20;  4400;occ;  82;   0;18746
  14; -205.6; 30-SEP-2005 17:49:04; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;18746
  15;  -97.6; 30-SEP-2005 17:50:52; Dark  ;  37.0;   46;   Del Vel  ; 1.95; 10600;occ;  74;   0;18746
  16;   -2.2; 30-SEP-2005 17:52:27; Dark  ;  47.5;   41;   Eps Car  ; 1.86;  4100;occ;  95;   0;18746
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   2;-4615.6; 30-SEP-2005 18:16:10; Dark  ;  41.0;   18; 24Alp PsA  ; 1.17;  9700;occ;  82;   0;18747
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   4;-3649.6; 30-SEP-2005 18:32:16; Bright;  36.0;   93; 53Bet Peg  ; 2.52;  3100;occ;  72;   0;18747
   5;-3036.6; 30-SEP-2005 18:42:29; Bright;  35.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  71;   0;18747
   6;-2607.3; 30-SEP-2005 18:49:38; Bright;  37.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  74;   0;18747
   7;-2484.9; 30-SEP-2005 18:51:41; Bright;  36.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  72;   0;18747
   8;-2130.7; 30-SEP-2005 18:57:35; Bright;  34.5;   36; 50Alp UMa  ; 1.80;  6300;occ;  69;   0;18747
   9;-2040.6; 30-SEP-2005 18:59:05; Bright;  33.0;   82; 48Bet UMa  ; 2.37; 10600;occ;  66;   0;18747
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  13; -294.8; 30-SEP-2005 19:28:11; Dark  ;  43.0;   65;   Lam Vel  ; 2.20;  4400;occ;  86;   0;18747
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