

GOMOS Daily Report 08-OCT-2004

Level 0 and Level 1 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	10OCT2004 05:01:46
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (08OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (09OCT2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

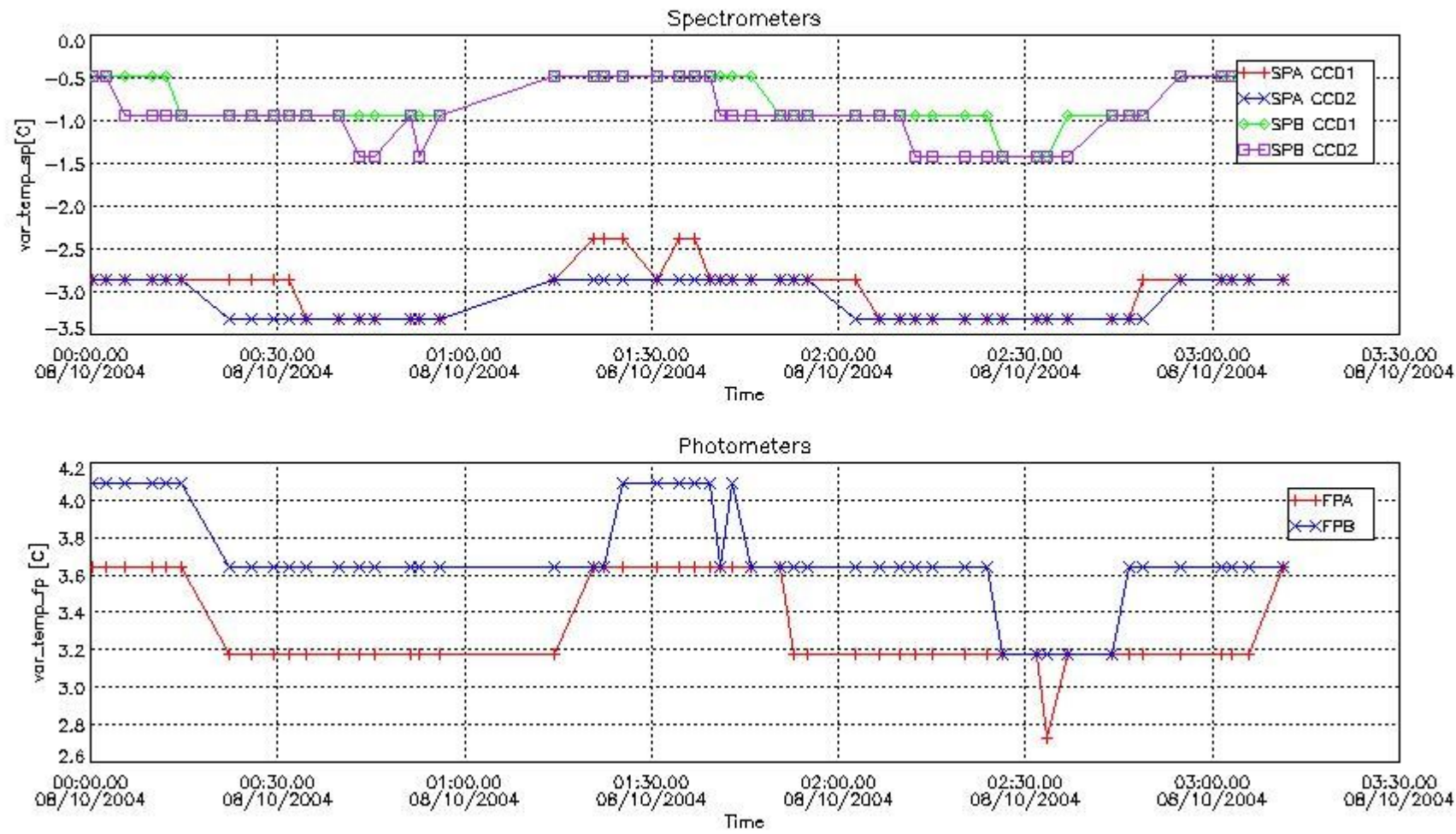
2. Summary of products arrived in PCF (Product Control Facility)

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

2.2 Summary of processed GOM_TRA_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20041008_000017_000000452031_00045_13626_0008.N1	08-OCT-2004 00:00:17	Dark	45.000	9	Alp Eri	0.45300	24000.	90	13626	No
GOM_TRA_1PNPDE20041008_000225_000000502031_00045_13626_0009.N1	08-OCT-2004 00:02:25	Dark	49.500	157	The1Eri	2.9060	9300.0	99	13626	No
GOM_TRA_1PNPDE20041008_000528_000000532031_00045_13626_0010.N1	08-OCT-2004 00:05:28	Twilight	52.500	84	Alp Phe	2.3970	4500.0	105	13626	No
GOM_TRA_1PNPDE20041008_000959_000000462031_00045_13626_0011.N1	08-OCT-2004 00:09:59	Bright	46.000	18	24Alp PsA	1.1660	9700.0	92	13626	No
GOM_TRA_1PNPDE20041008_001210_000000512031_00045_13626_0012.N1	08-OCT-2004 00:12:10	Bright	50.500	52	16Bet Cet	2.0370	4500.0	101	13626	No
GOM_TRA_1PNPDE20041008_001428_000001972031_00045_13626_0013.N1	08-OCT-2004 00:14:28	Bright	196.50	165	34Gam Eri	2.9500	3200.0	393	13626	No
GOM_TRA_1PNPDE20041008_002210_000000412031_00045_13626_0014.N1	08-OCT-2004 00:22:10	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	13626	No
GOM_TRA_1PNPDE20041008_002552_000000402031_00045_13626_0015.N1	08-OCT-2004 00:25:52	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13626	No
GOM_TRA_1PNPDE20041008_002919_000000482031_00045_13626_0016.N1	08-OCT-2004 00:29:19	Bright	47.500	53	43Bet And	2.0480	3300.0	95	13626	No
GOM_TRA_1PNPDE20041008_003145_000000542031_00045_13626_0017.N1	08-OCT-2004 00:31:45	Bright	53.500	173	4Bet Tri	3.0040	8900.0	107	13626	No
GOM_TRA_1PNPDE20041008_003431_000000402031_00045_13626_0018.N1	08-OCT-2004 00:34:31	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	13626	No
GOM_TRA_1PNPDE20041008_003942_000000572031_00045_13626_0019.N1	08-OCT-2004 00:39:42	Bright	56.500	35	33Alp Per	1.7950	6250.0	113	13626	No
GOM_TRA_1PNPDE20041008_004305_000000412031_00045_13626_0020.N1	08-OCT-2004 00:43:05	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	13626	No
GOM_TRA_1PNPDE20041008_004537_000000442031_00045_13626_0021.N1	08-OCT-2004 00:45:37	Bright	44.000	60	7Bet UMi	2.0810	3950.0	88	13626	No
GOM_TRA_1PNPDE20041008_005113_000000422031_00045_13626_0022.N1	08-OCT-2004 00:51:13	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	13626	No
GOM_TRA_1PNPDE20041008_005244_000000412031_00045_13626_0023.N1	08-OCT-2004 00:52:44	Bright	40.500	82	48Bet UMa	2.3650	10600.	81	13626	No
GOM_TRA_1PNPDE20041008_005602_000000382031_00045_13626_0024.N1	08-OCT-2004 00:56:02	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	13626	No
GOM_TRA_1PNPDE20041008_011420_000000952031_00045_13626_0000.N1	08-OCT-2004 01:14:20	Dark	94.500	8	10Alp CMi	0.40000	6500.0	189	13626	No
GOM_TRA_1PNPDE20041008_012044_000000552031_00045_13626_0001.N1	08-OCT-2004 01:20:44	Dark	54.500	132	15Rho Pup	2.8030	6900.0	109	13626	No
GOM_TRA_1PNPDE20041008_012227_000000512031_00045_13626_0002.N1	08-OCT-2004 01:22:27	Dark	51.000	65	Lam Vel	2.2040	4400.0	102	13626	No
GOM_TRA_1PNPDE20041008_012520_000000502031_00045_13626_0003.N1	08-OCT-2004 01:25:20	Dark	50.000	34	Gam2Vel	1.7930	23000.	100	13626	No
GOM_TRA_1PNPDE20041008_013046_000000522031_00046_13627_0004.N1	08-OCT-2004 01:30:46	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	13627	No
GOM_TRA_1PNPDE20041008_013421_000000672031_00046_13627_0005.N1	08-OCT-2004 01:34:21	Dark	66.500	108	Alp Col	2.6520	15200.	133	13627	No
GOM_TRA_1PNPDE20041008_013652_000000402031_00046_13627_0006.N1	08-OCT-2004 01:36:52	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	13627	No
GOM_TRA_1PNPDE20041008_013926_000000412031_00046_13627_0007.N1	08-OCT-2004 01:39:26	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	13627	No
GOM_TRA_1PNPDE20041008_014054_000000452031_00046_13627_0008.N1	08-OCT-2004 01:40:54	Dark	45.000	9	Alp Eri	0.45300	24000.	90	13627	No
GOM_TRA_1PNPDE20041008_014302_000000502031_00046_13627_0009.N1	08-OCT-2004 01:43:02	Dark	50.000	157	The1Eri	2.9060	9300.0	100	13627	No
GOM_TRA_1PNPDE20041008_014605_000000442031_00046_13627_0010.N1	08-OCT-2004 01:46:05	Twilight	44.000	84	Alp Phe	2.3970	4500.0	88	13627	No
GOM_TRA_1PNPDE20041008_015035_000000462031_00046_13627_0011.N1	08-OCT-2004 01:50:35	Bright	46.000	18	24Alp PsA	1.1660	9700.0	92	13627	No
GOM_TRA_1PNPDE20041008_015248_000000462031_00046_13627_0012.N1	08-OCT-2004 01:52:48	Bright	46.000	52	16Bet Cet	2.0370	4500.0	92	13627	No
GOM_TRA_1PNPDE20041008_015503_000001982031_00046_13627_0013.N1	08-OCT-2004 01:55:03	Bright	198.00	165	34Gam Eri	2.9500	3200.0	396	13627	No
GOM_TRA_1PNPDE20041008_020246_000000392031_00046_13627_0014.N1	08-OCT-2004 02:02:46	Bright	38.500	140	88Gam Peg	2.8340	26000.	77	13627	No
GOM_TRA_1PNPDE20041008_020626_000000432031_00046_13627_0015.N1	08-OCT-2004 02:06:26	Bright	42.500	93	53Bet Peg	2.5200	3100.0	85	13627	No
GOM_TRA_1PNPDE20041008_020954_000000472031_00046_13627_0016.N1	08-OCT-2004 02:09:54	Bright	47.000	53	43Bet And	2.0480	3300.0	94	13627	No
GOM_TRA_1PNPDE20041008_021220_000000522031_00046_13627_0017.N1	08-OCT-2004 02:12:20	Bright	52.000	173	4Bet Tri	3.0040	8900.0	104	13627	No
GOM_TRA_1PNPDE20041008_021505_000000442031_00046_13627_0018.N1	08-OCT-2004 02:15:05	Bright	43.500	68	18Alp Cas	2.2250	4500.0	87	13627	No
GOM_TRA_1PNPDE20041008_022017_000000562031_00046_13627_0019.N1	08-OCT-2004 02:20:17	Bright	56.000	35	33Alp Per	1.7950	6250.0	112	13627	No
GOM_TRA_1PNPDE20041008_022342_000000392031_00046_13627_0020.N1	08-OCT-2004 02:23:42	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13627	No
GOM_TRA_1PNPDE20041008_022616_000000412031_00046_13627_0000.N1	08-OCT-2004 02:26:16	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	13627	No
GOM_TRA_1PNPDE20041008_023149_000000422031_00046_13627_0001.N1	08-OCT-2004 02:31:49	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	13627	No
GOM_TRA_1PNPDE20041008_023323_000000432031_00046_13627_0002.N1	08-OCT-2004 02:33:23	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	13627	No
GOM_TRA_1PNPDE20041008_023638_000000522031_00046_13627_0003.N1	08-OCT-2004 02:36:38	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	13627	No
GOM_TRA_1PNPDE20041008_024351_000000782031_00046_13627_0004.N1	08-OCT-2004 02:43:51	Bright	78.000	17	78Bet Gem	1.1610	4500.0	156	13627	No
GOM_TRA_1PNPDE20041008_024634_000000402031_00046_13627_0005.N1	08-OCT-2004 02:46:34	Twilight	39.500	22	32Alp Leo	1.3600	15200.	79	13627	No
GOM_TRA_1PNPDE20041008_024856_000001942031_00046_13627_0006.N1	08-OCT-2004 02:48:56	Twilight	194.00	170	27Eps Gem	3.0000	9700.0	388	13627	No
GOM_TRA_1PNPDE20041008_025458_000000952031_00046_13627_0007.N1	08-OCT-2004 02:54:58	Dark	95.000	8	10Alp CMi	0.40000	6500.0	190	13627	No
GOM_TRA_1PNPDE20041008_030121_000000502031_00046_13627_0008.N1	08-OCT-2004 03:01:21	Dark	49.500	132	15Rho Pup	2.8030	6900.0	99	13627	No
GOM_TRA_1PNPDE20041008_030302_000000492031_00046_13627_0009.N1	08-OCT-2004 03:03:02	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	13627	No
GOM_TRA_1PNPDE20041008_030557_000000482031_00046_13627_0010.N1	08-OCT-2004 03:05:57	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	13627	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 subtracted 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).

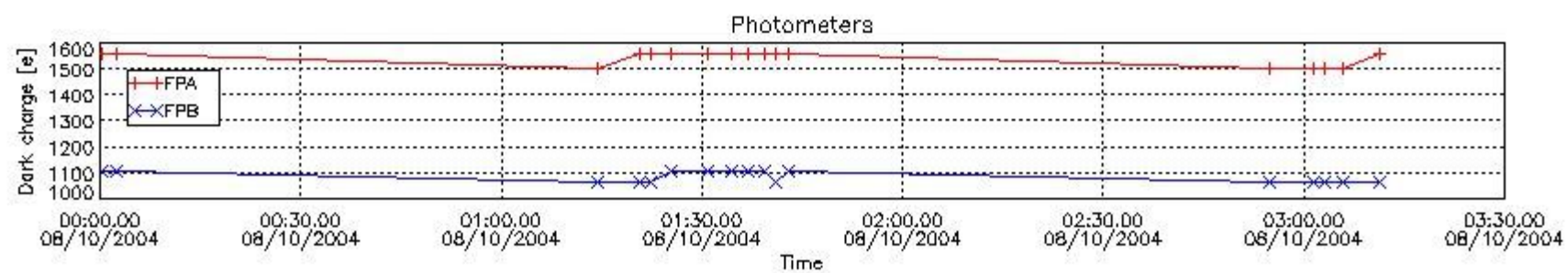
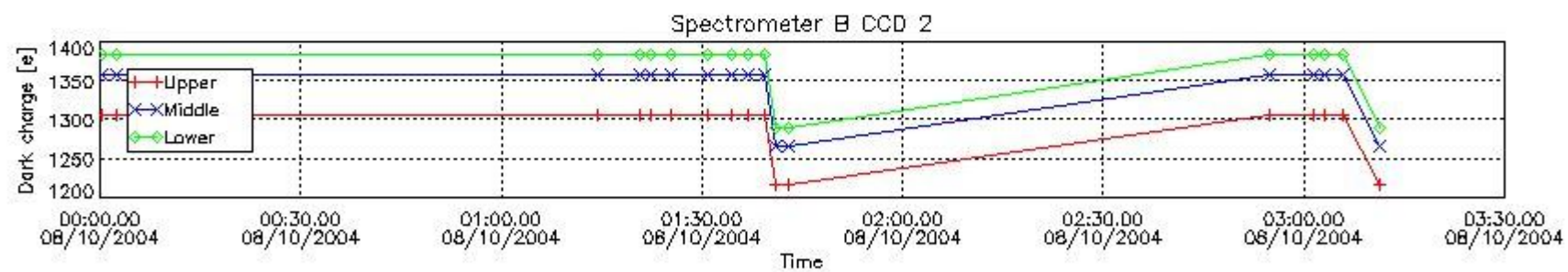
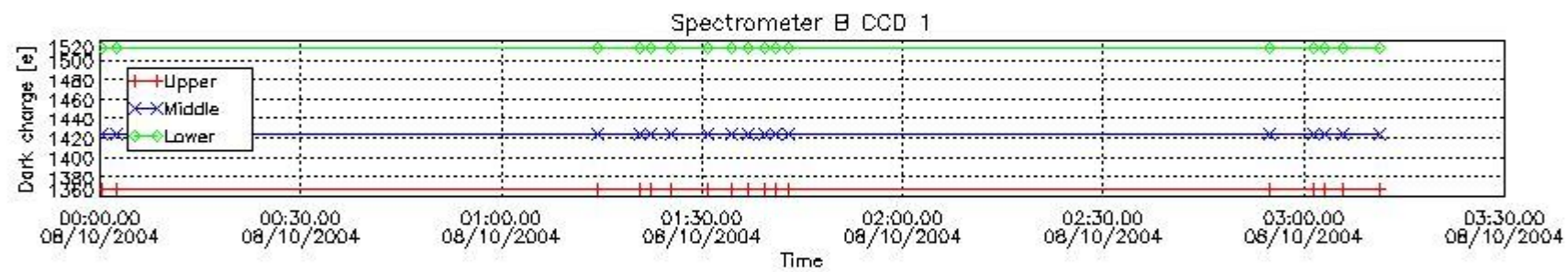
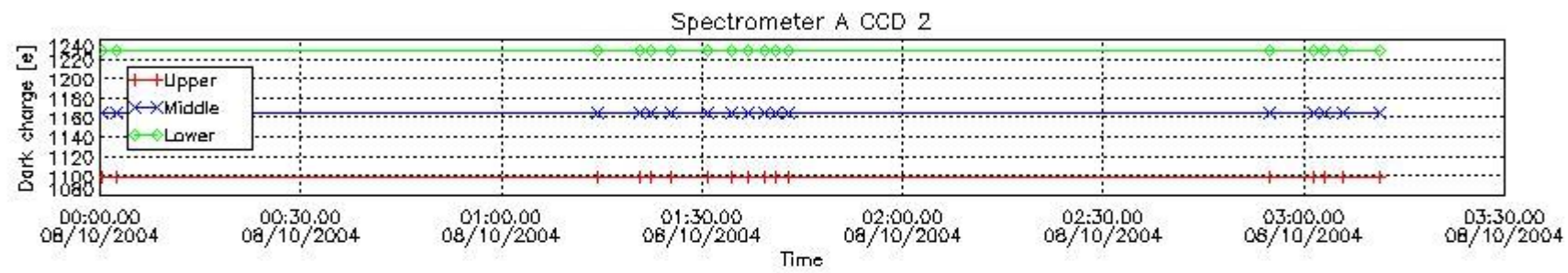
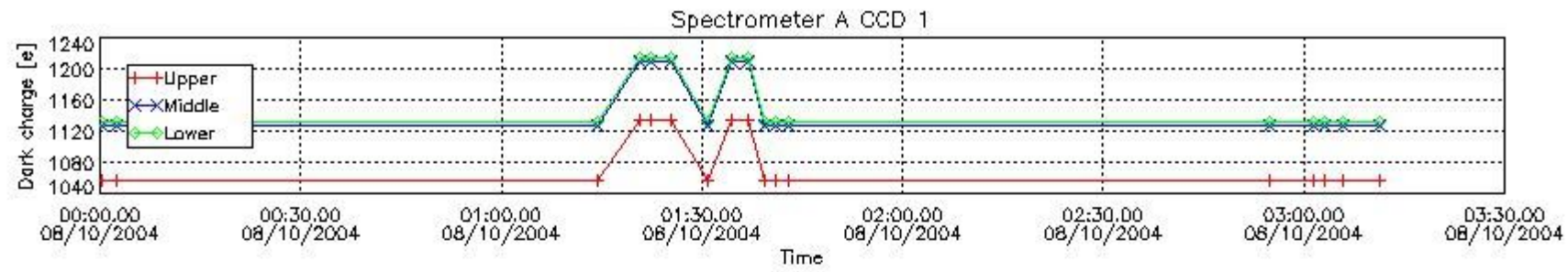
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20041008_000017_000000452031_00045_13626_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_000225_000000502031_00045_13626_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_000528_000000532031_00045_13626_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_000959_000000462031_00045_13626_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_001210_000000512031_00045_13626_0012.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_001428_000001972031_00045_13626_0013.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_002210_000000412031_00045_13626_0014.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_002552_000000402031_00045_13626_0015.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_002919_000000482031_00045_13626_0016.N1	DC map used (0)

GOM_TRA_1PNPDE20041008_003145_000000542031_00045_13626_0017.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_003431_000000402031_00045_13626_0018.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_003942_000000572031_00045_13626_0019.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_004305_000000412031_00045_13626_0020.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_004537_000000442031_00045_13626_0021.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_005113_000000422031_00045_13626_0022.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_005244_000000412031_00045_13626_0023.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_005602_000000382031_00045_13626_0024.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_011420_000000952031_00045_13626_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_012044_000000552031_00045_13626_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_012227_000000512031_00045_13626_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_012520_000000502031_00045_13626_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_013046_000000522031_00046_13627_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_013421_000000672031_00046_13627_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_013652_000000402031_00046_13627_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_013926_000000412031_00046_13627_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_014054_000000452031_00046_13627_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_014302_000000502031_00046_13627_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_014605_000000442031_00046_13627_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_015035_000000462031_00046_13627_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_015248_000000462031_00046_13627_0012.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_015503_000001982031_00046_13627_0013.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_020246_000000392031_00046_13627_0014.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_020626_000000432031_00046_13627_0015.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_020954_000000472031_00046_13627_0016.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_021220_000000522031_00046_13627_0017.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_021505_000000442031_00046_13627_0018.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_022017_000000562031_00046_13627_0019.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_022342_000000392031_00046_13627_0020.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_022616_000000412031_00046_13627_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_023149_000000422031_00046_13627_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_023323_000000432031_00046_13627_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_023638_000000522031_00046_13627_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_024351_000000782031_00046_13627_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_024634_000000402031_00046_13627_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_024856_000001942031_00046_13627_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_025458_000000952031_00046_13627_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_030121_000000502031_00046_13627_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_030302_000000492031_00046_13627_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_030557_000000482031_00046_13627_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20041008_031124_000000502031_00047_13628_0011.N1	DC map used (0)

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



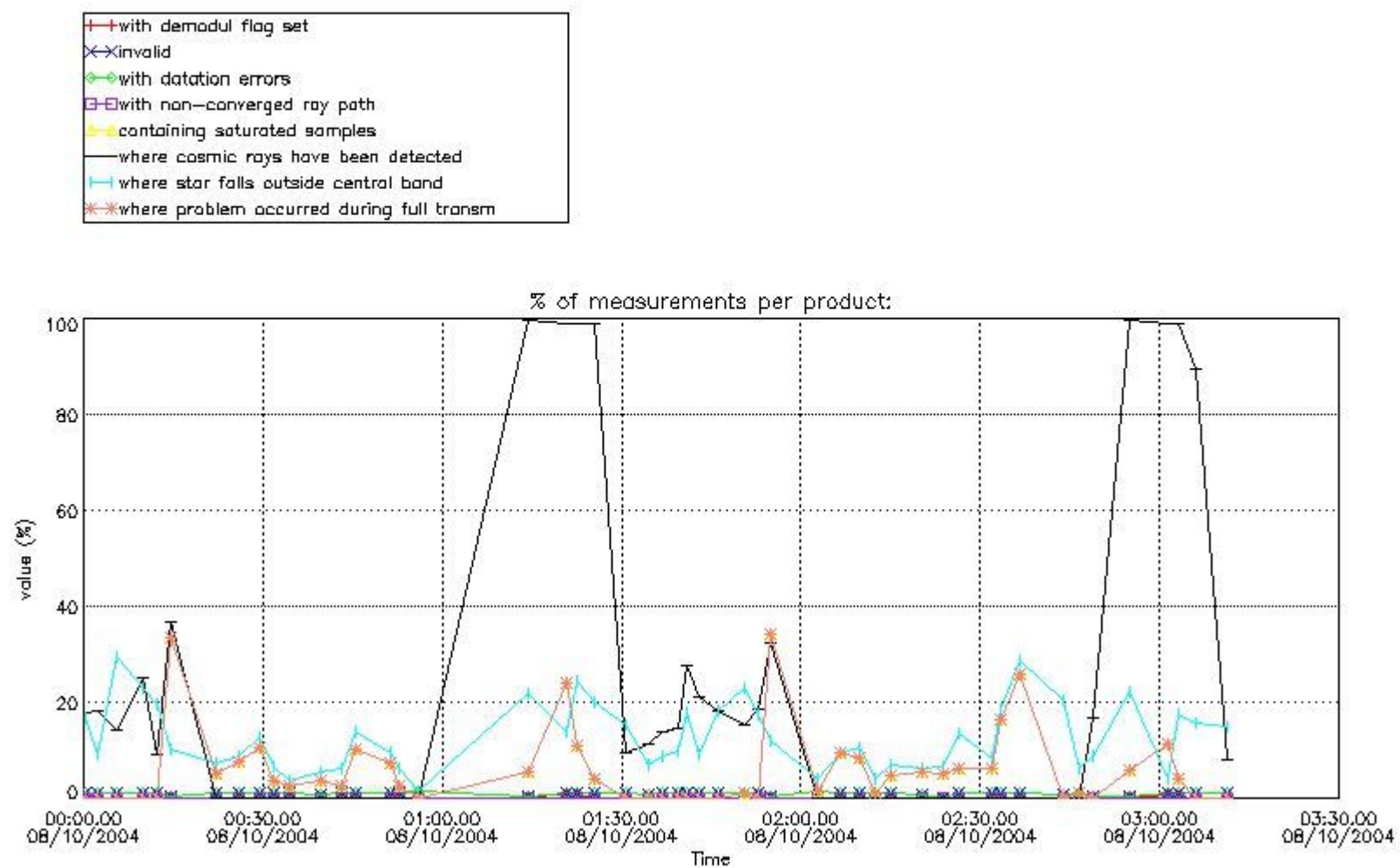
5. Demodulation flag and quality information monitoring

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.

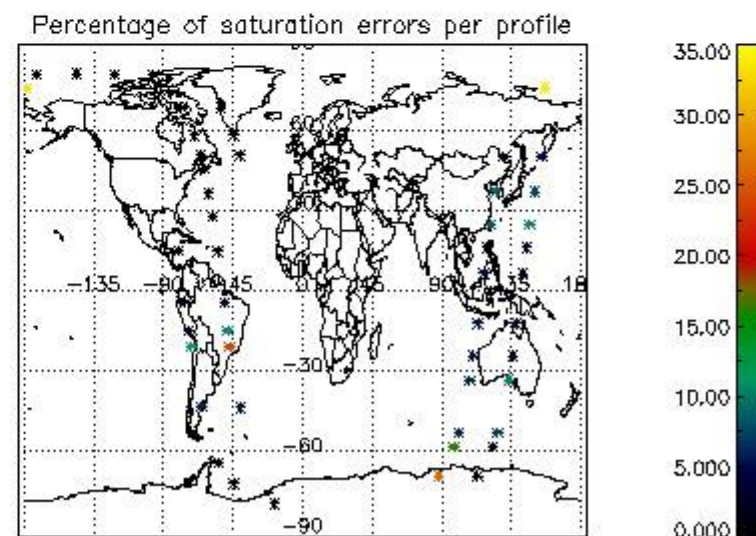
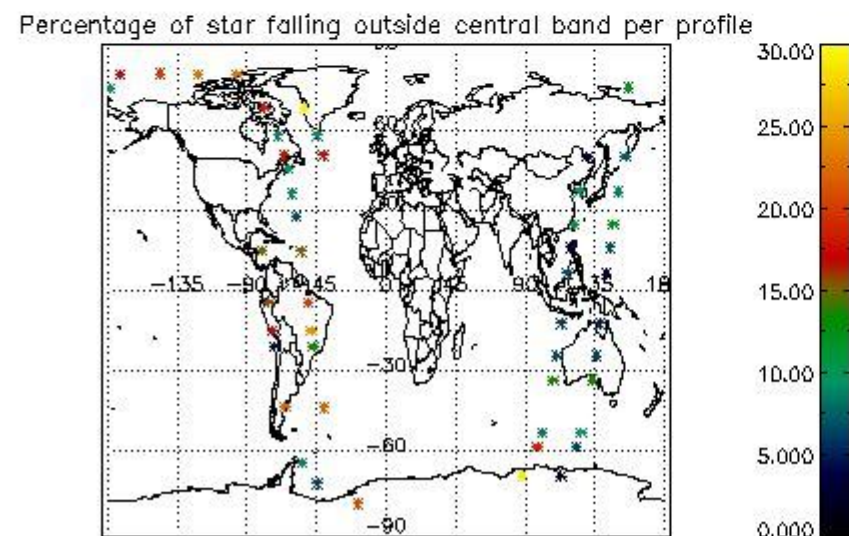
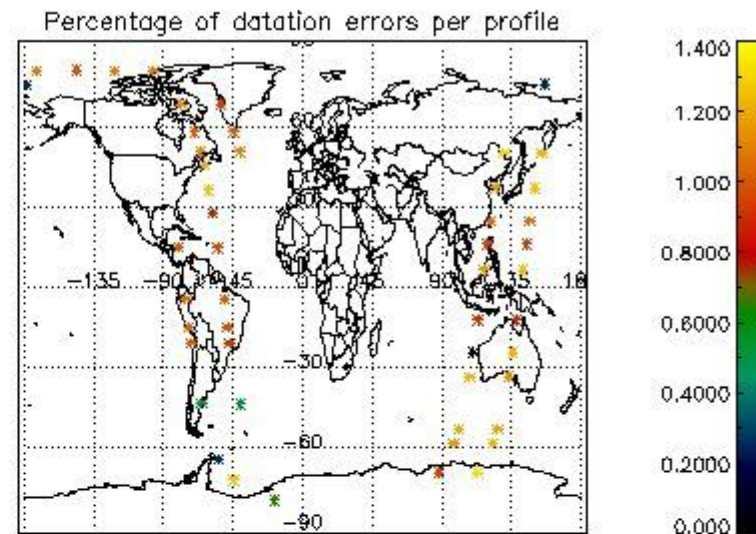
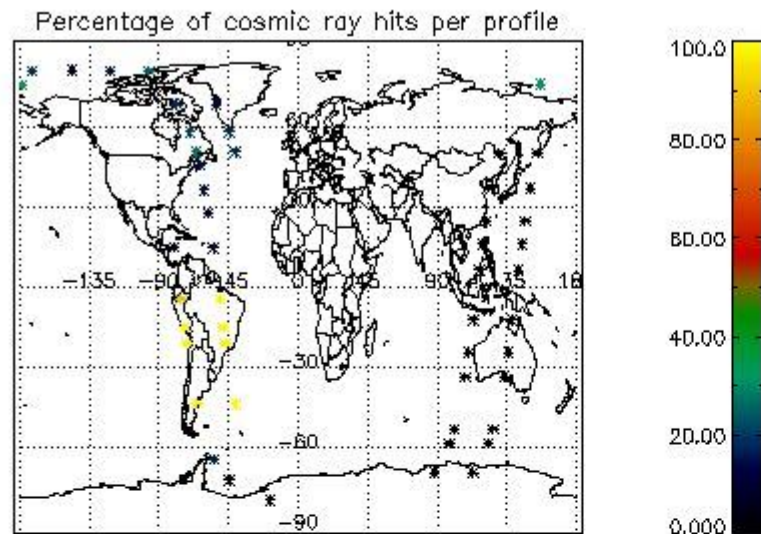
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.0000 %
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)



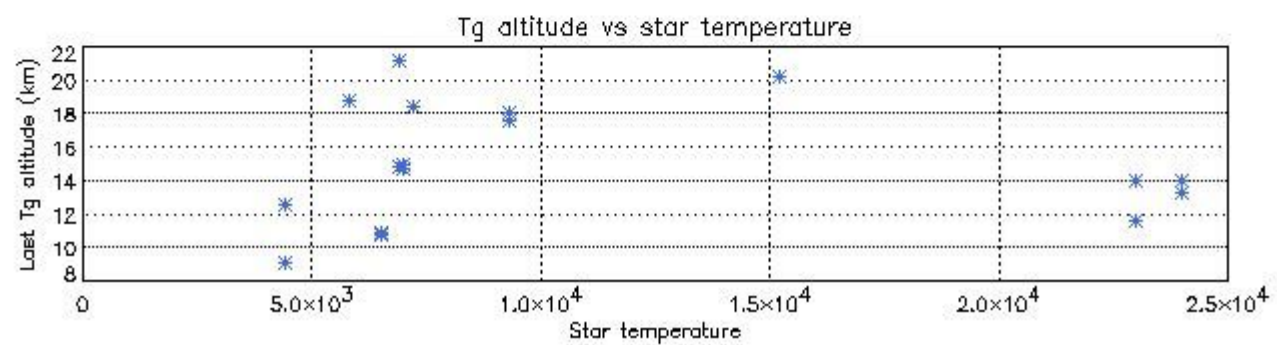
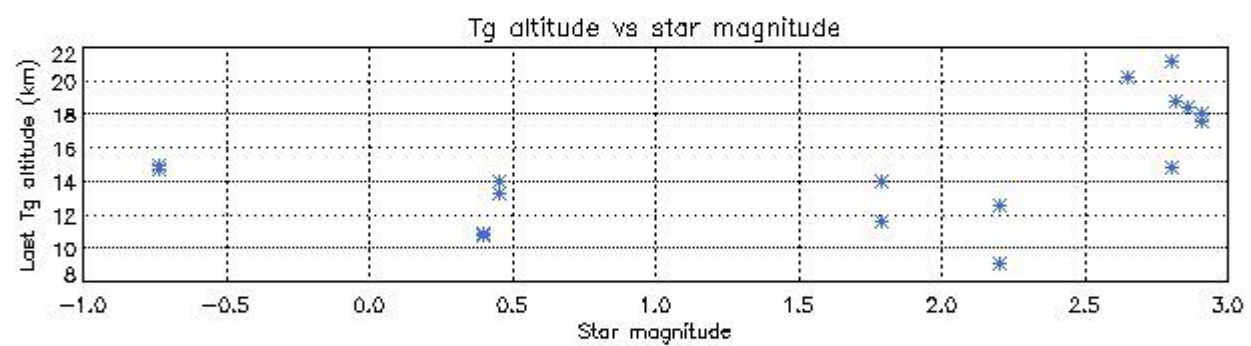
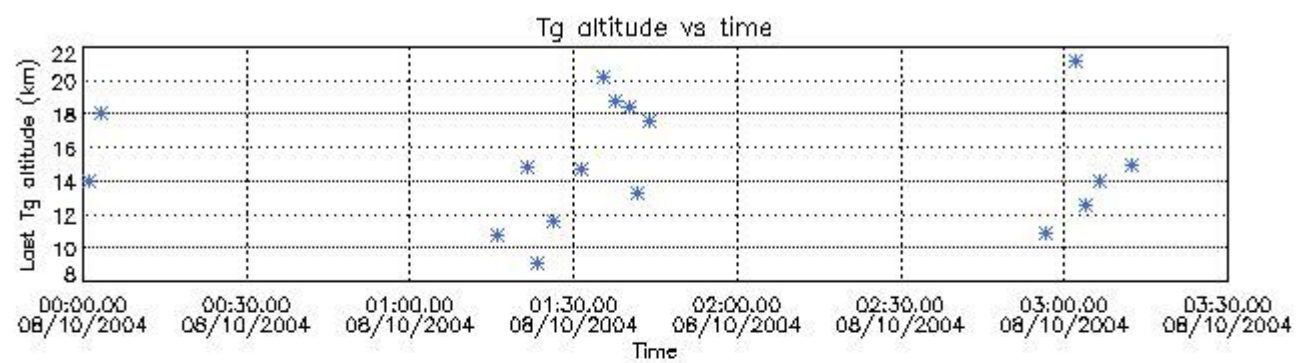
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.986	17.717	14.175
St. deviation:	3.5420	4.5165	6.3417
Maximum:	21.169	25.077	19.407
Minimum:	9.0491	7.4786	5.7541
Number of data:	17.000	29.000	4.0000

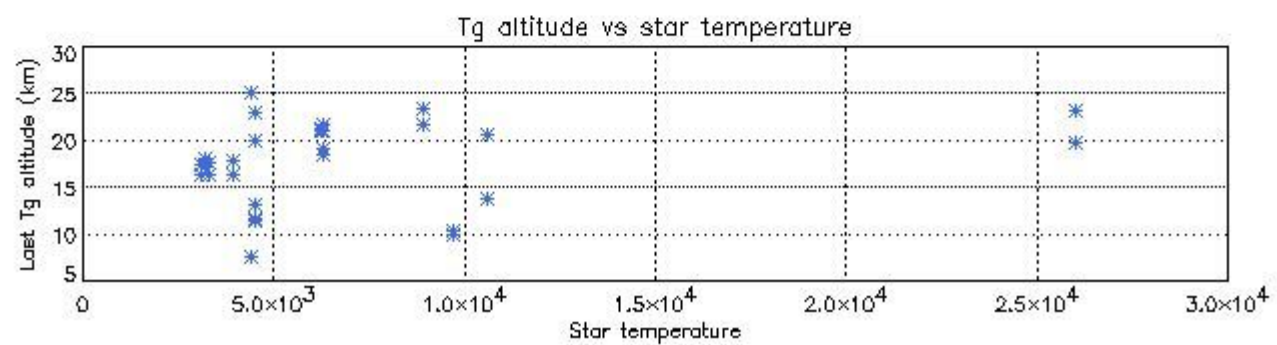
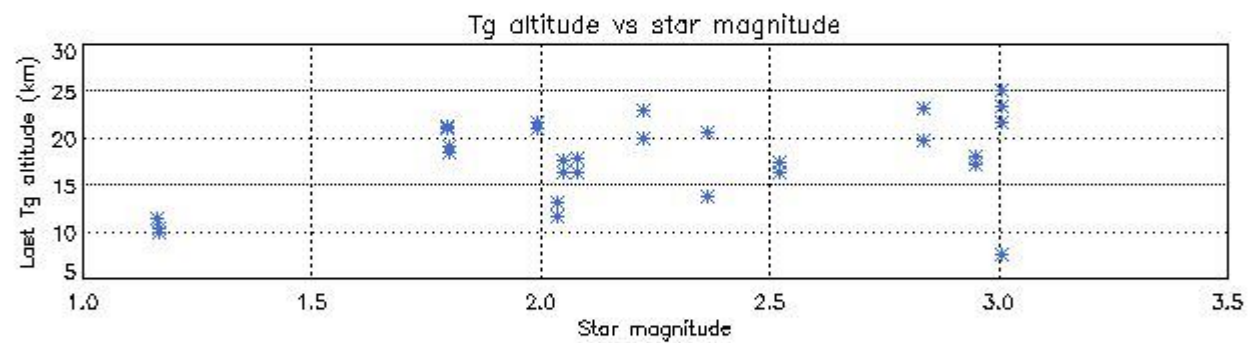
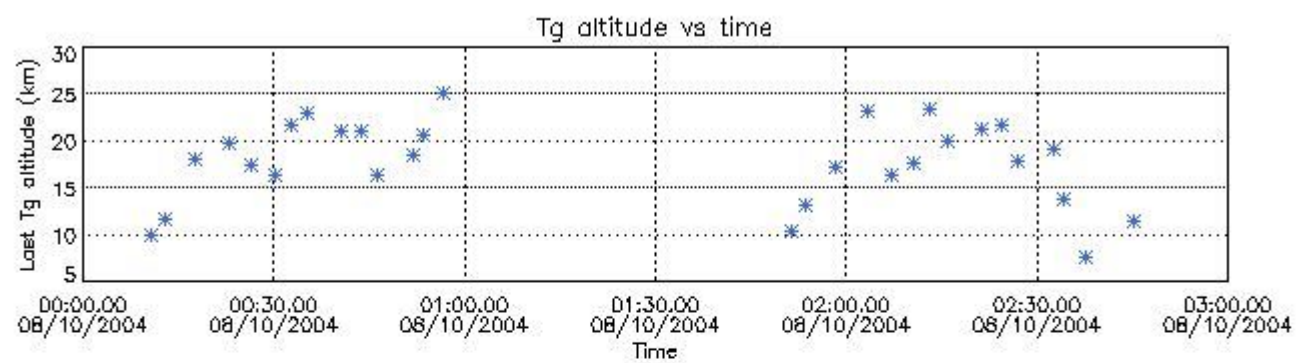
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



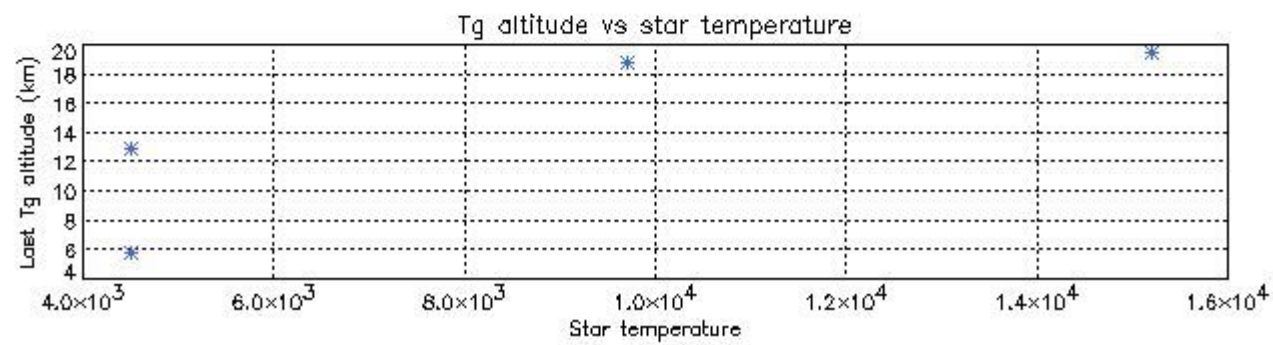
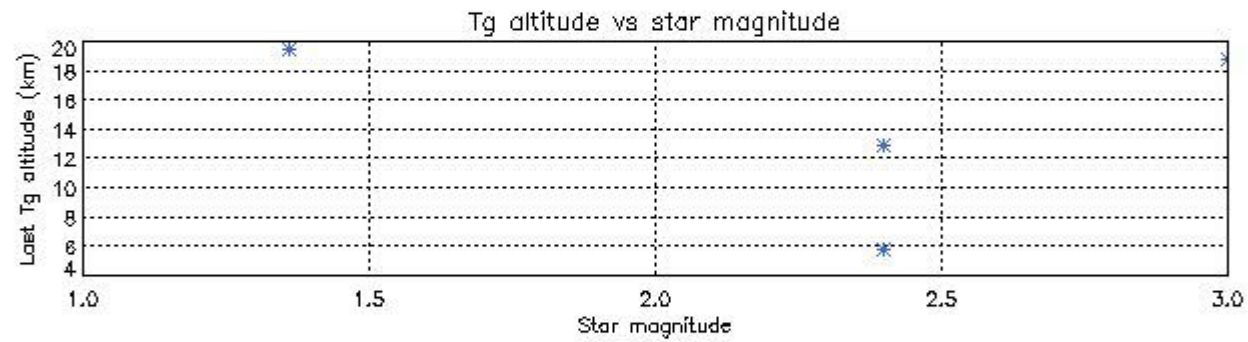
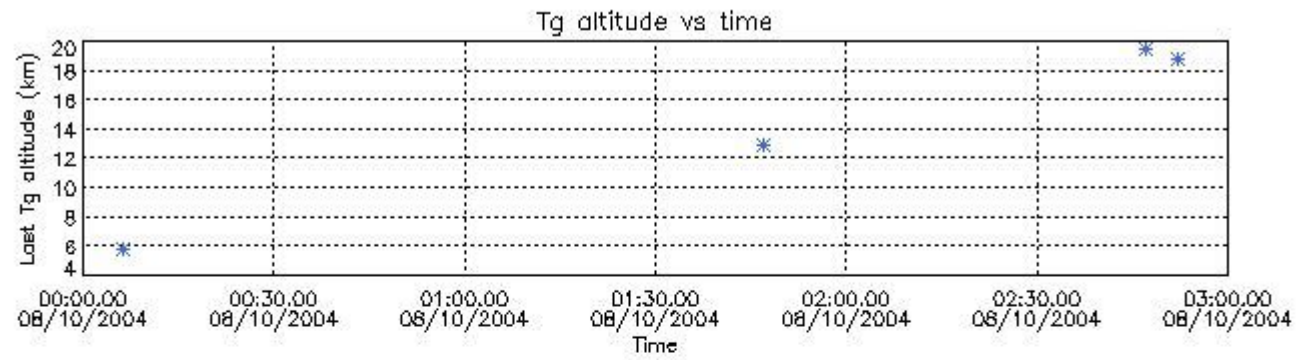
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

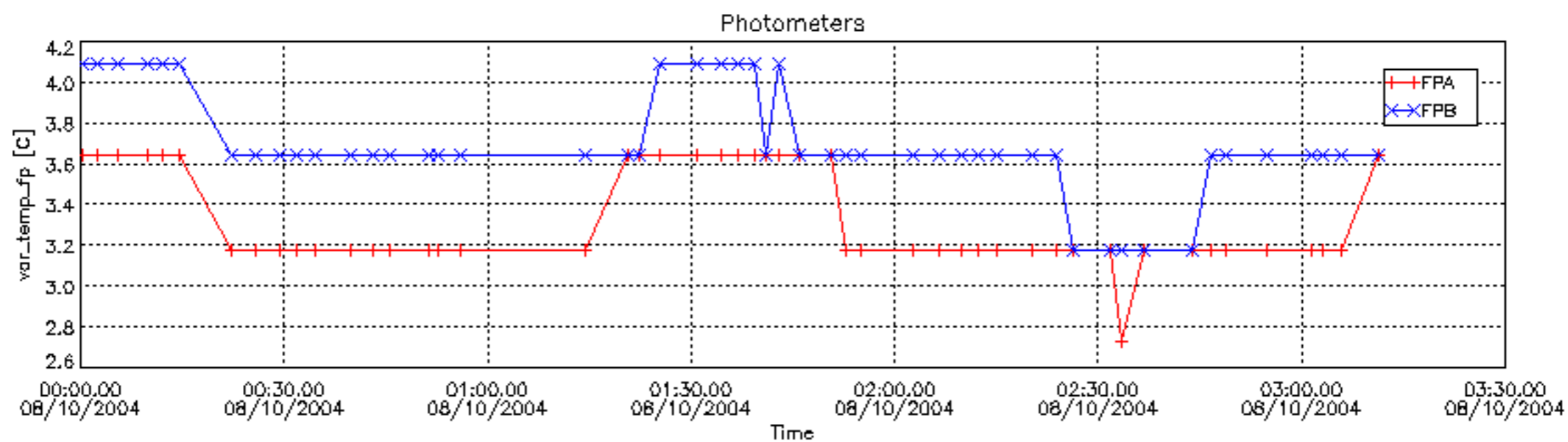
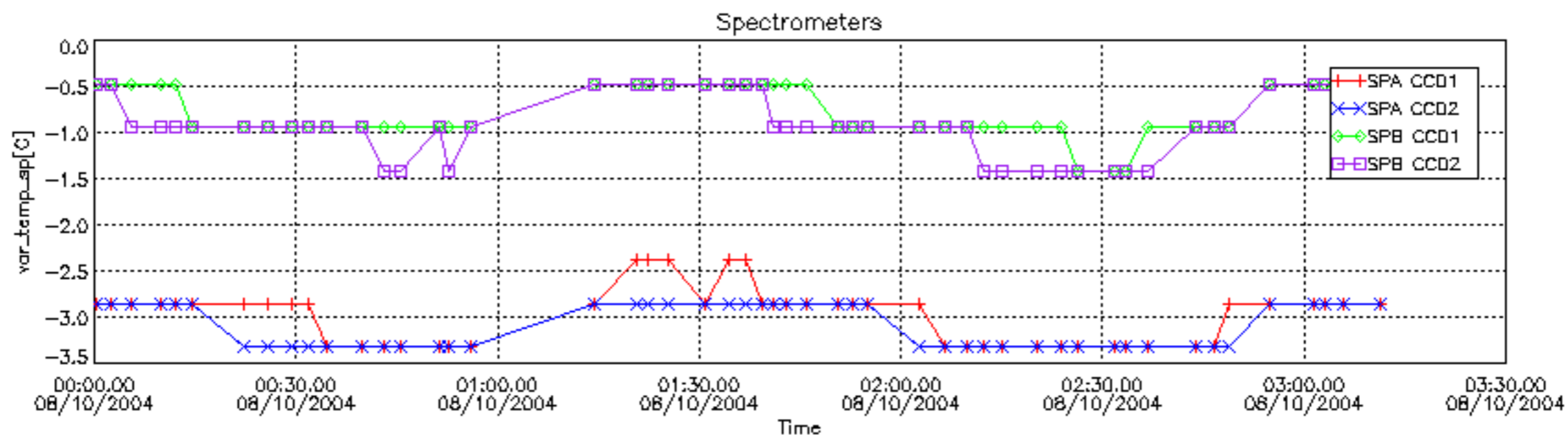
Tangent altitude at which the star is lost

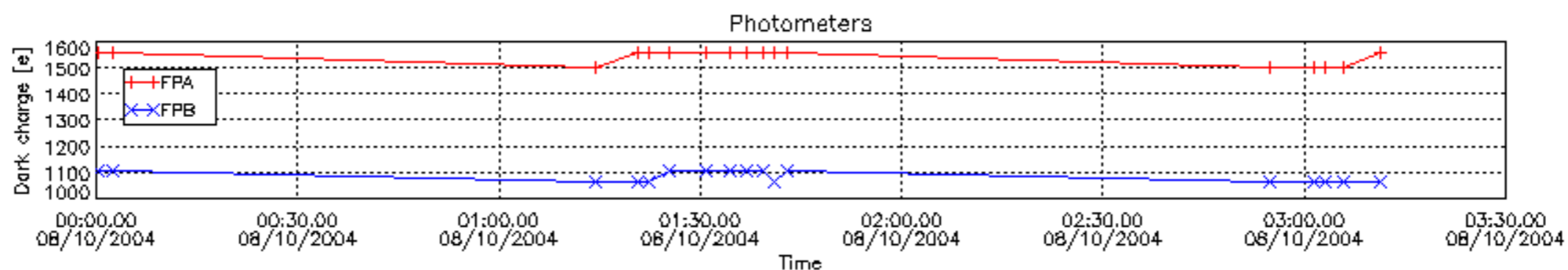
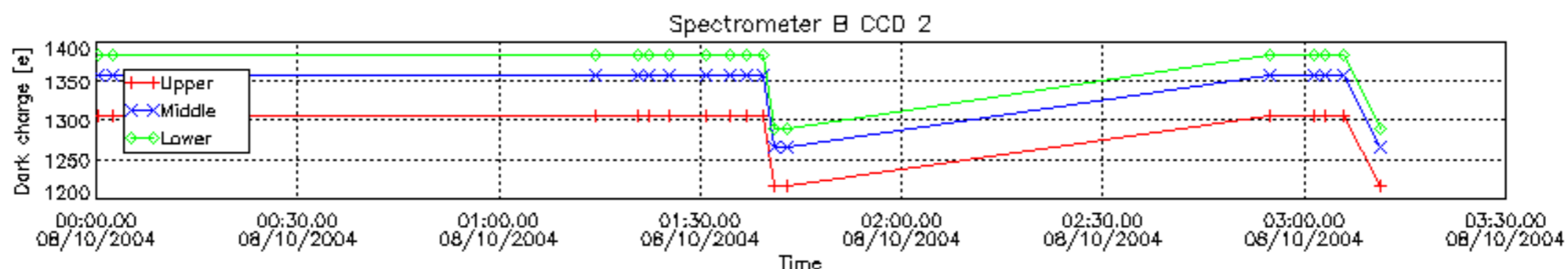
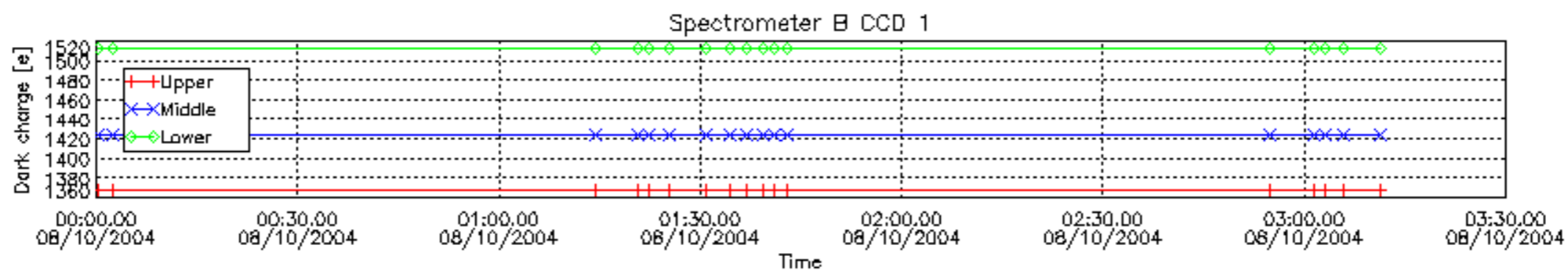
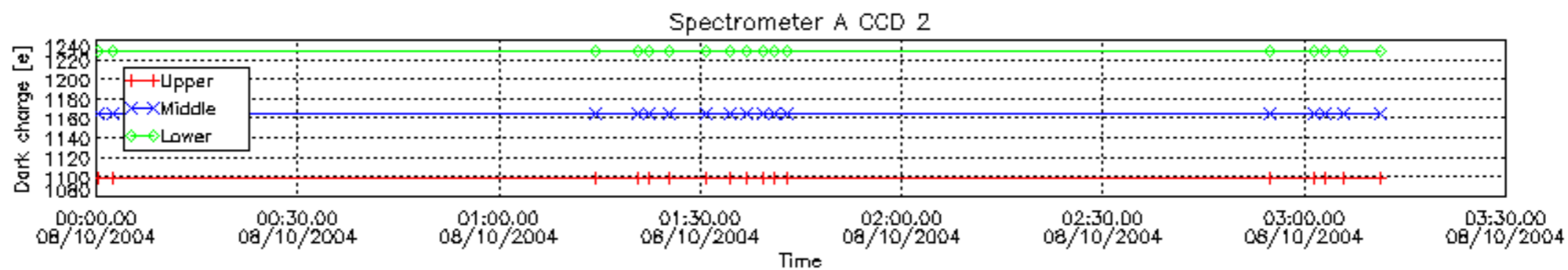
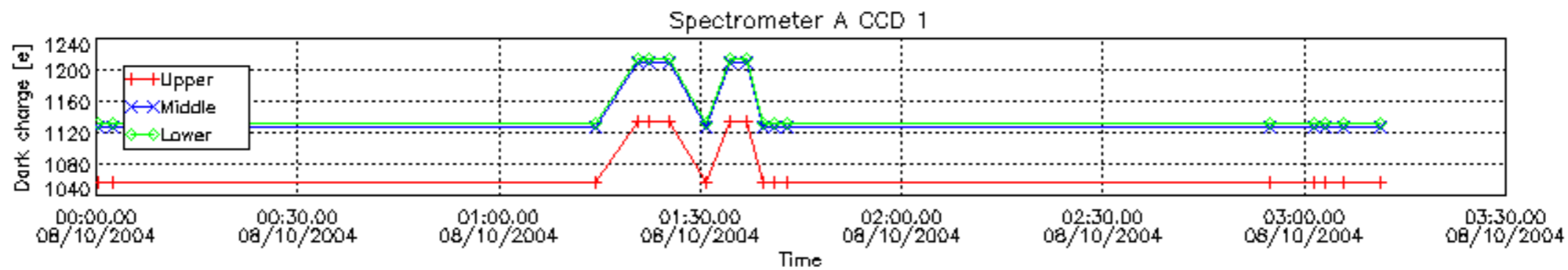


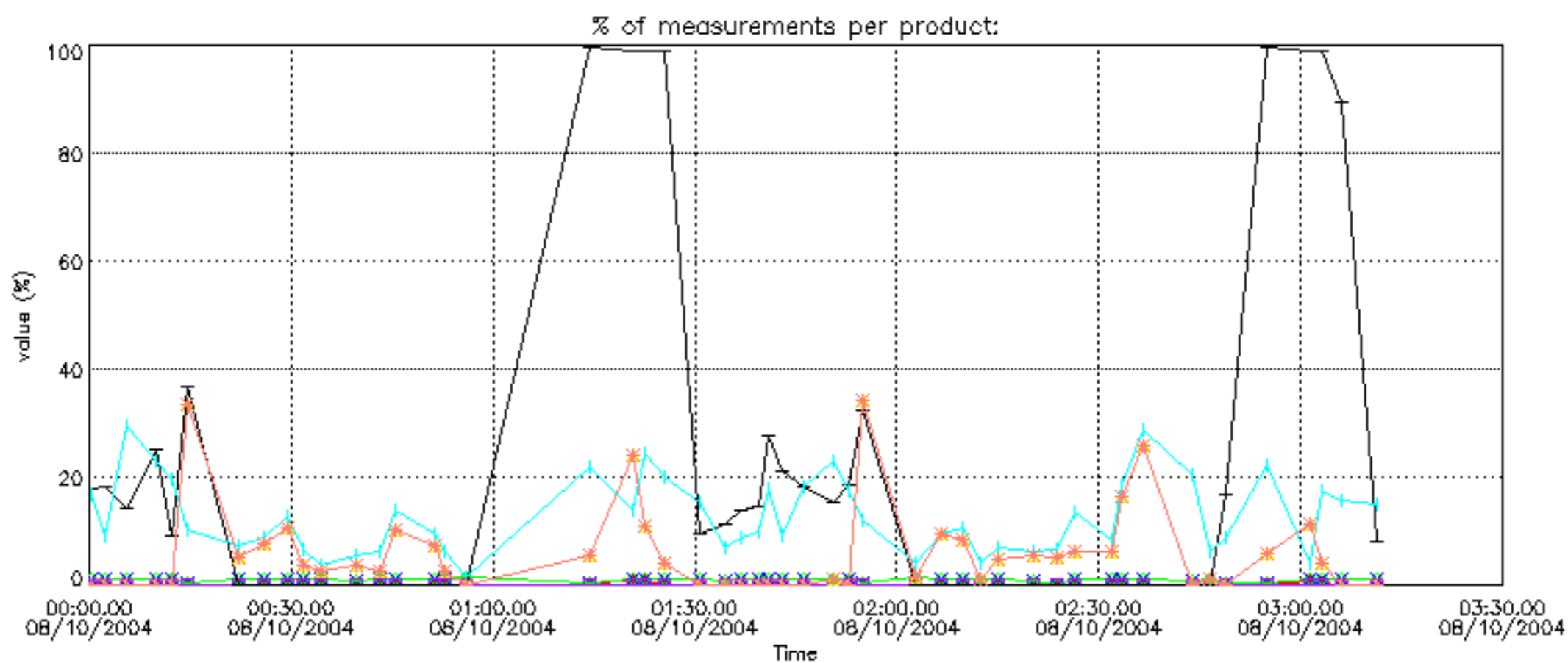
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

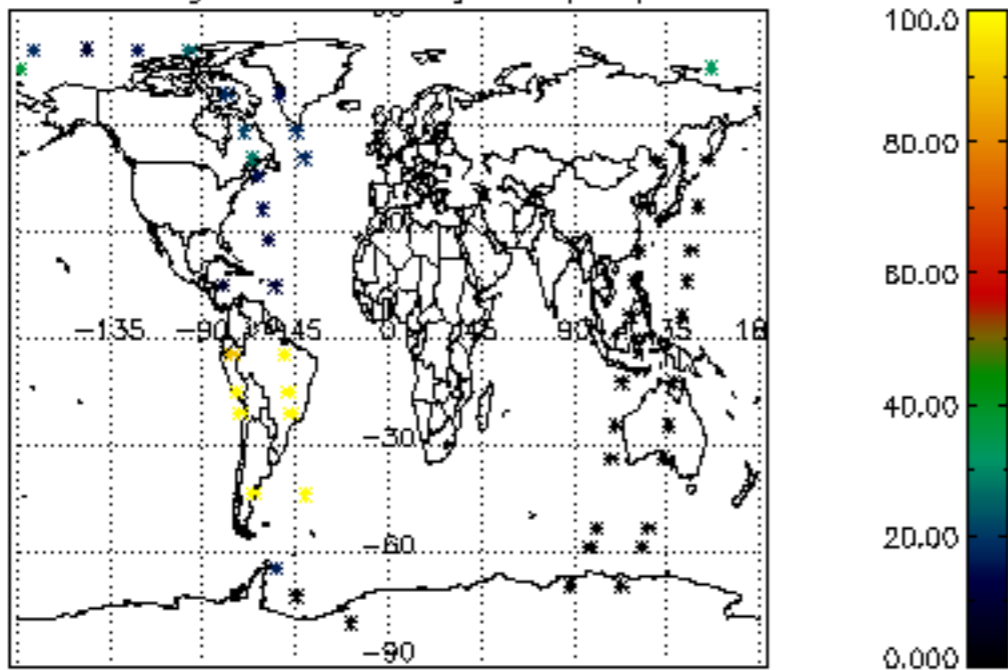
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.1	1448.6	1461.6	1447.8
St. deviation:	5.3081	5.8415	5.6992	6.6211
Maximum:	1721.0	1594.0	1519.0	1496.0
Minimum:	1458.0	1432.0	1450.0	1429.0
Number of data:	24150.	24150.	40450.	40450.



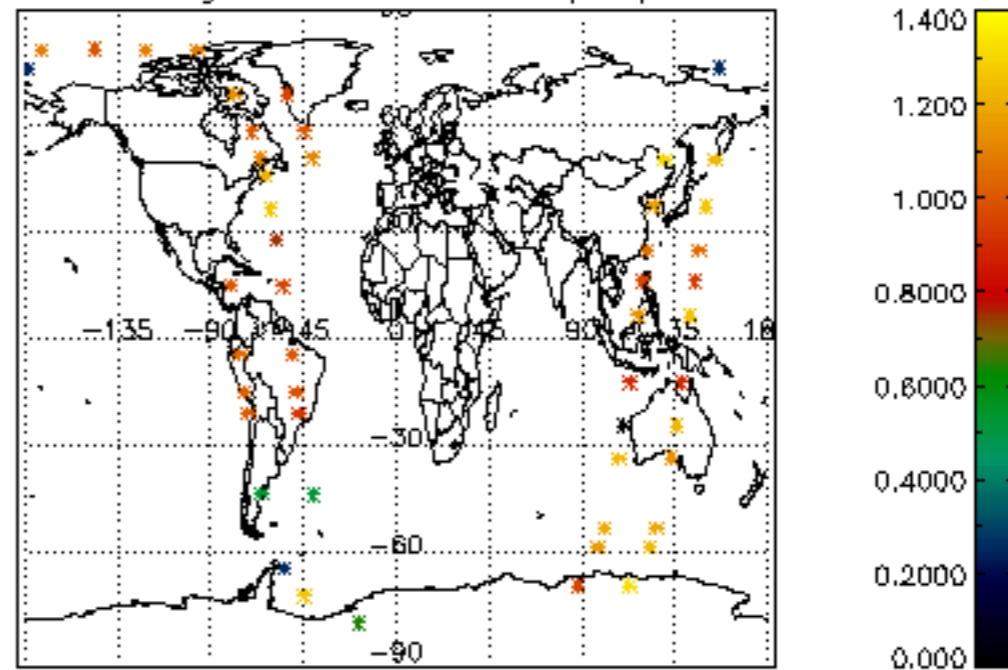




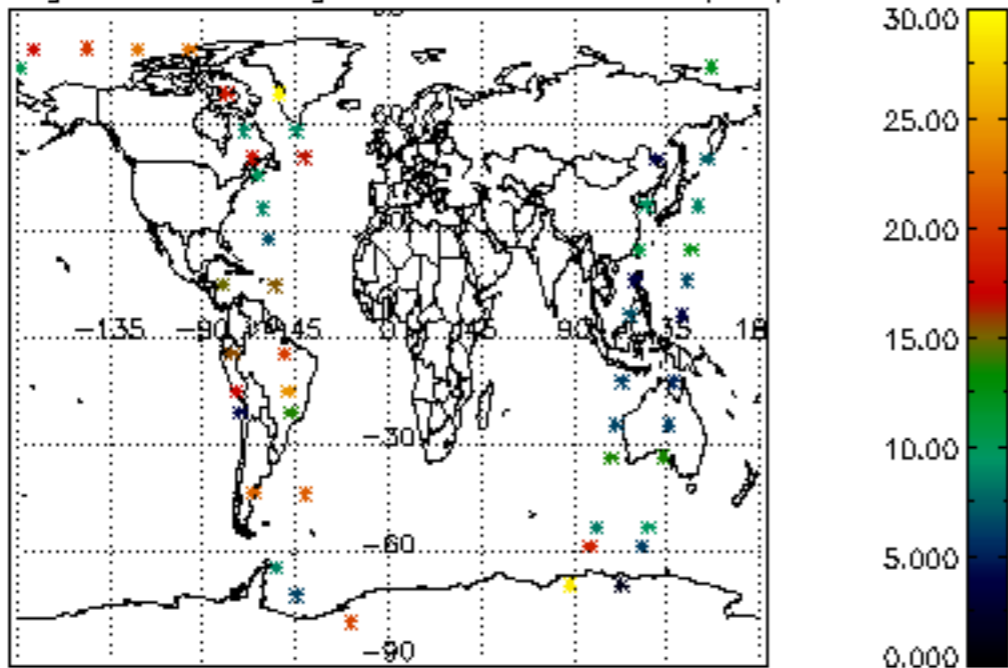
Percentage of cosmic ray hits per profile



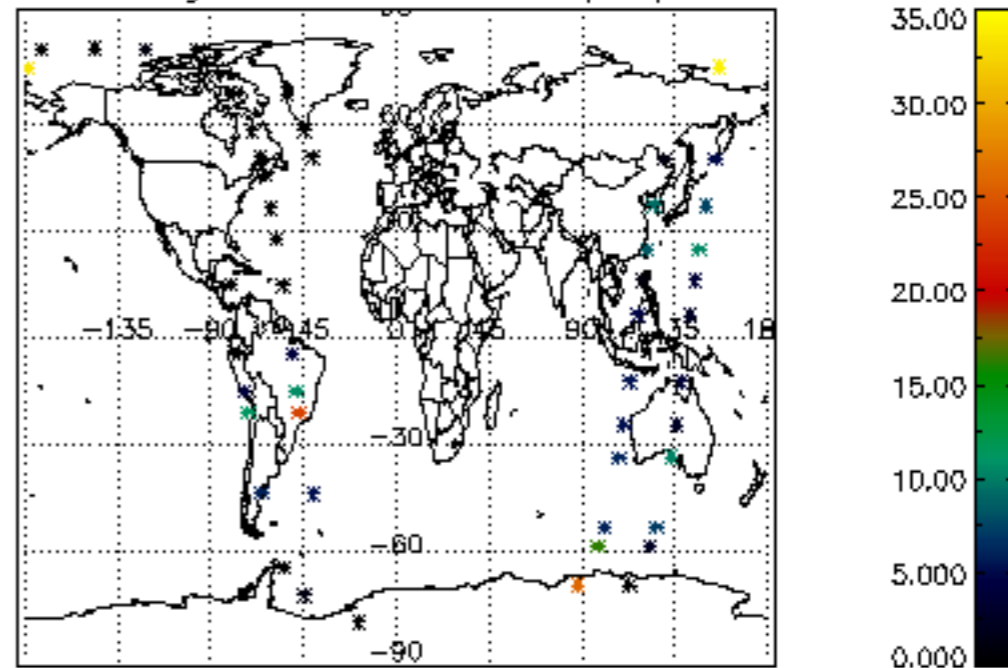
Percentage of datation errors per profile



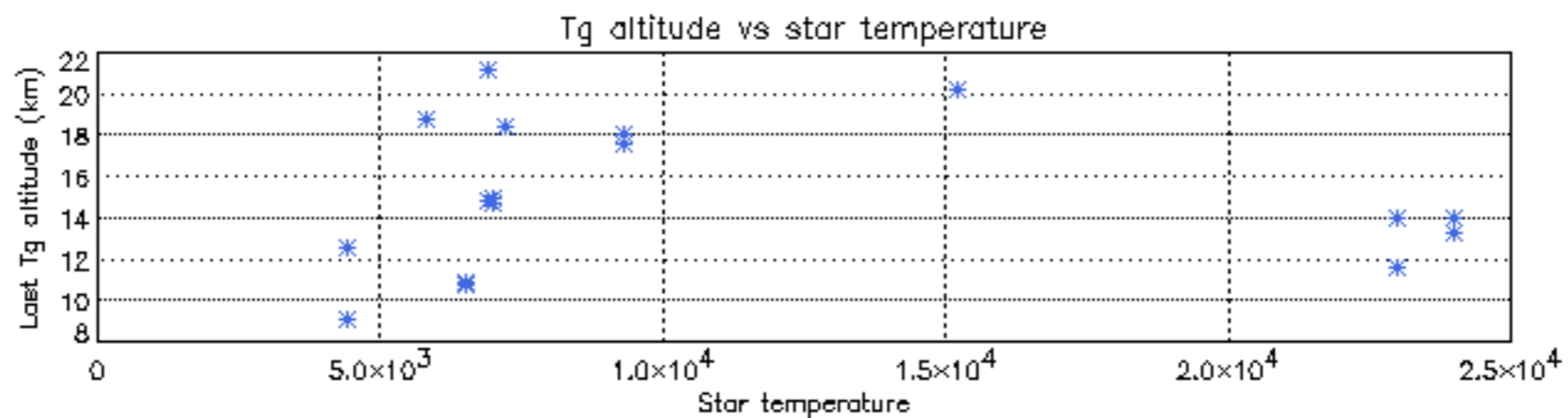
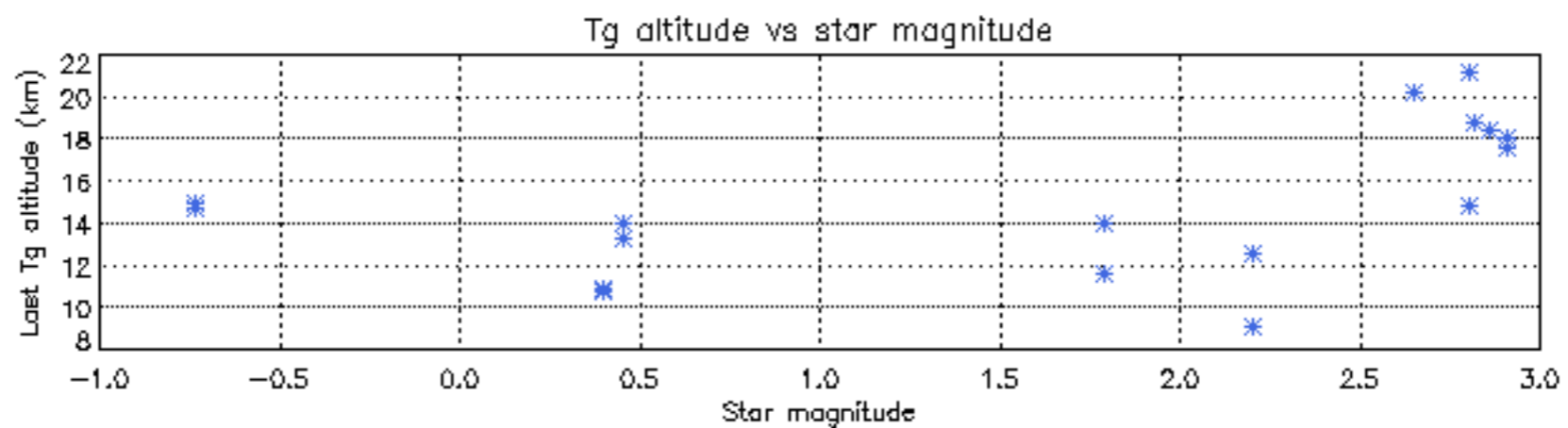
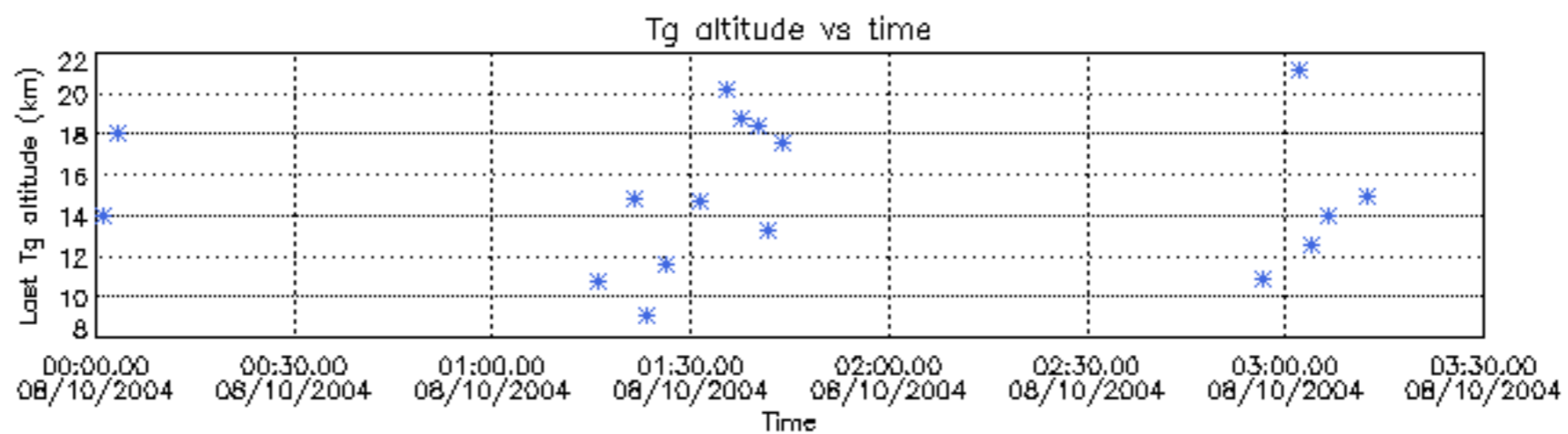
Percentage of star falling outside central band per profile



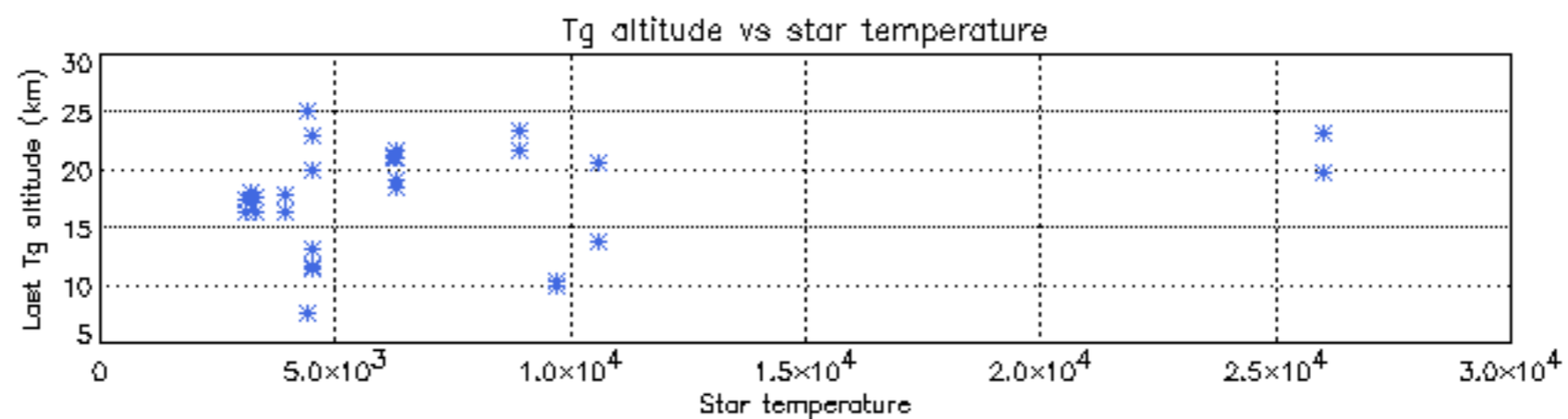
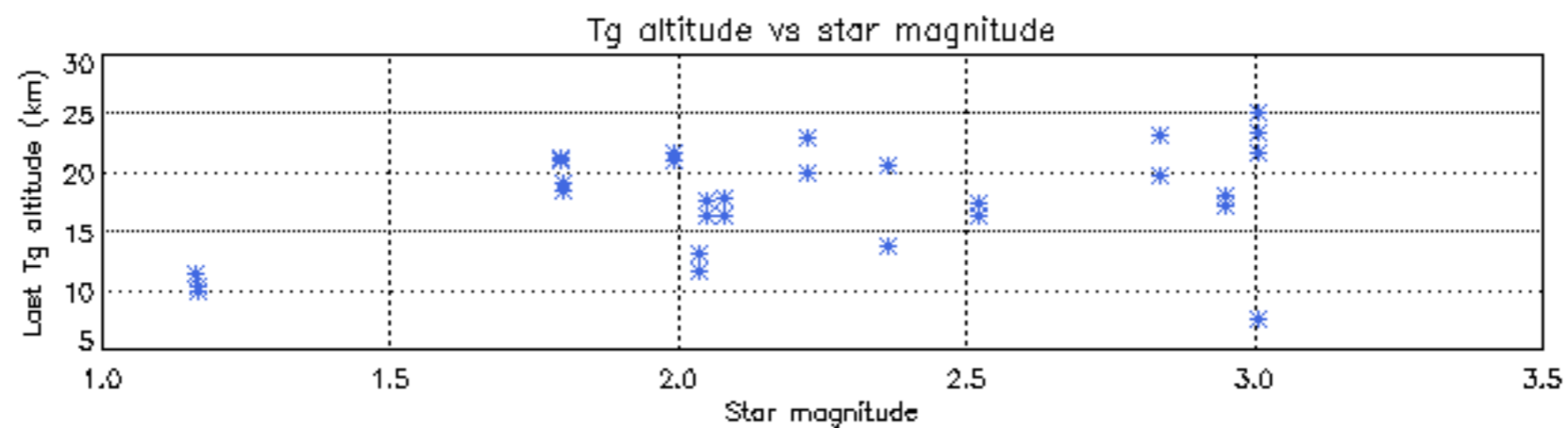
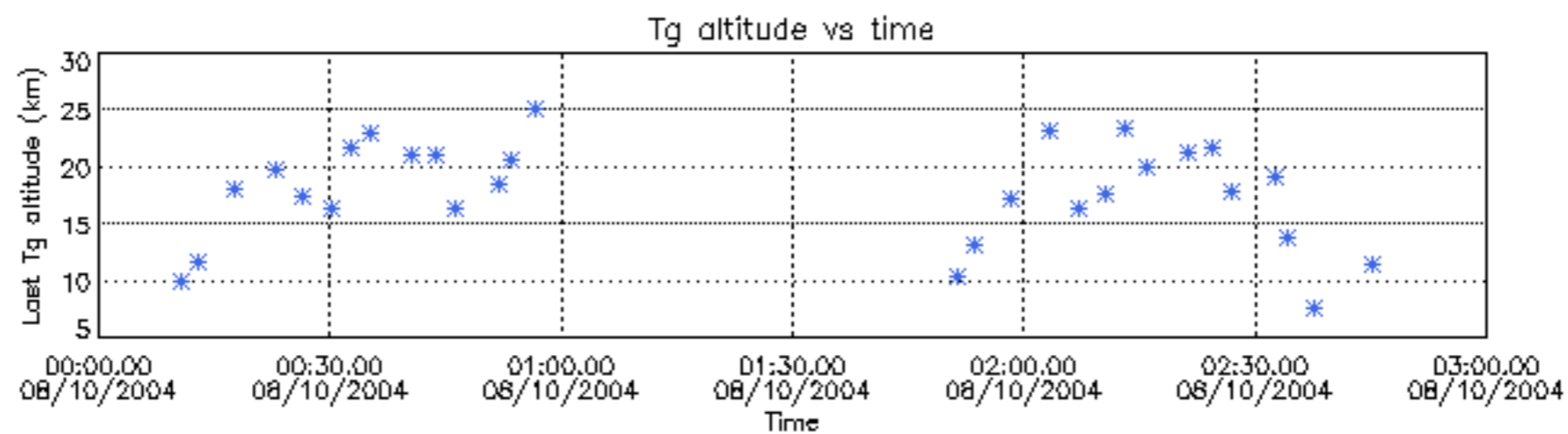
Percentage of saturation errors per profile



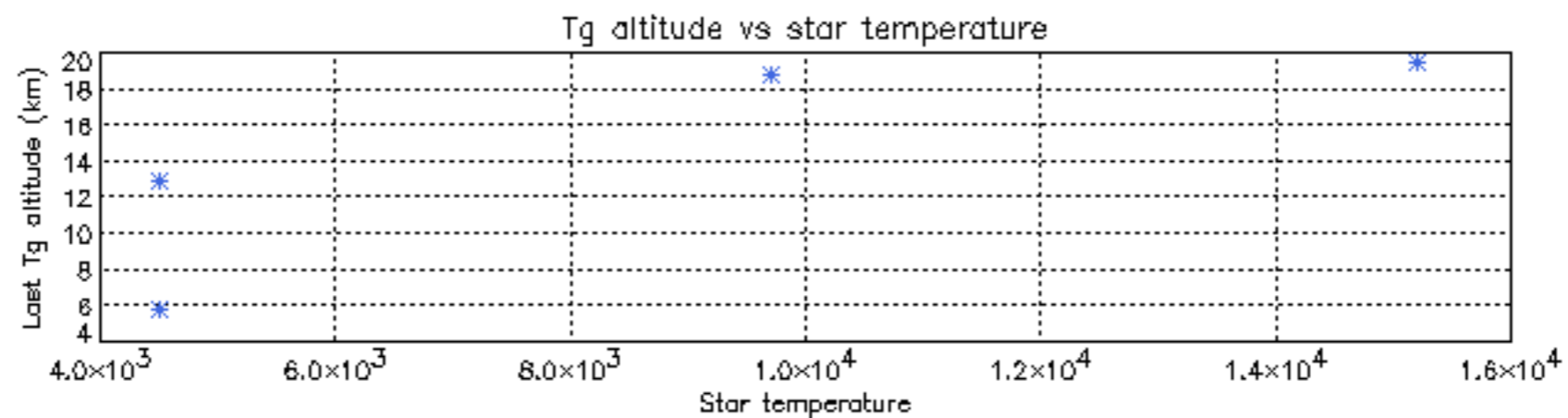
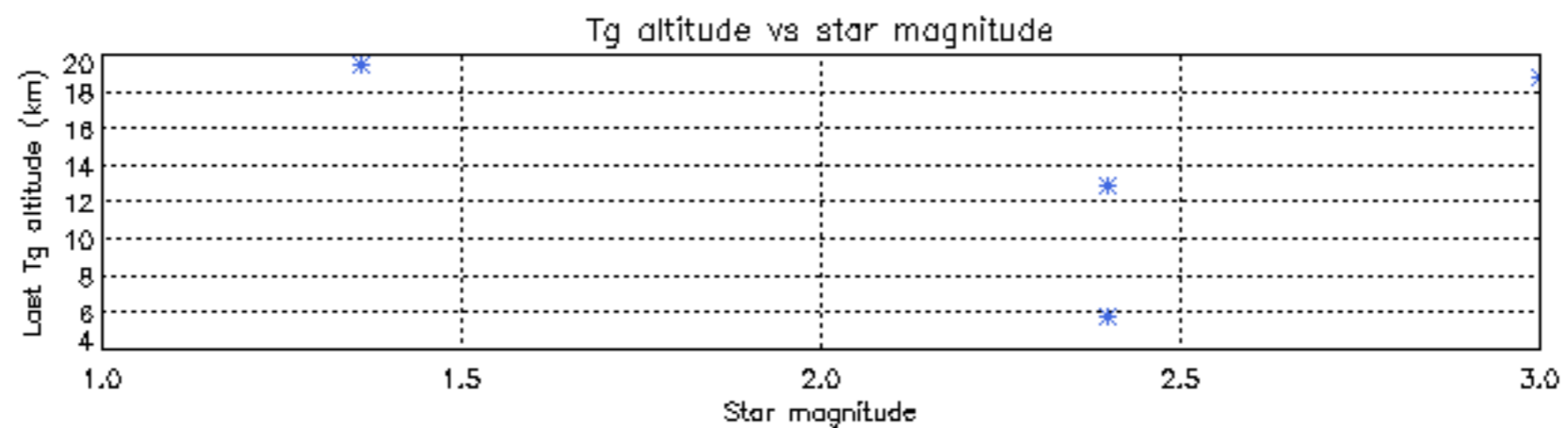
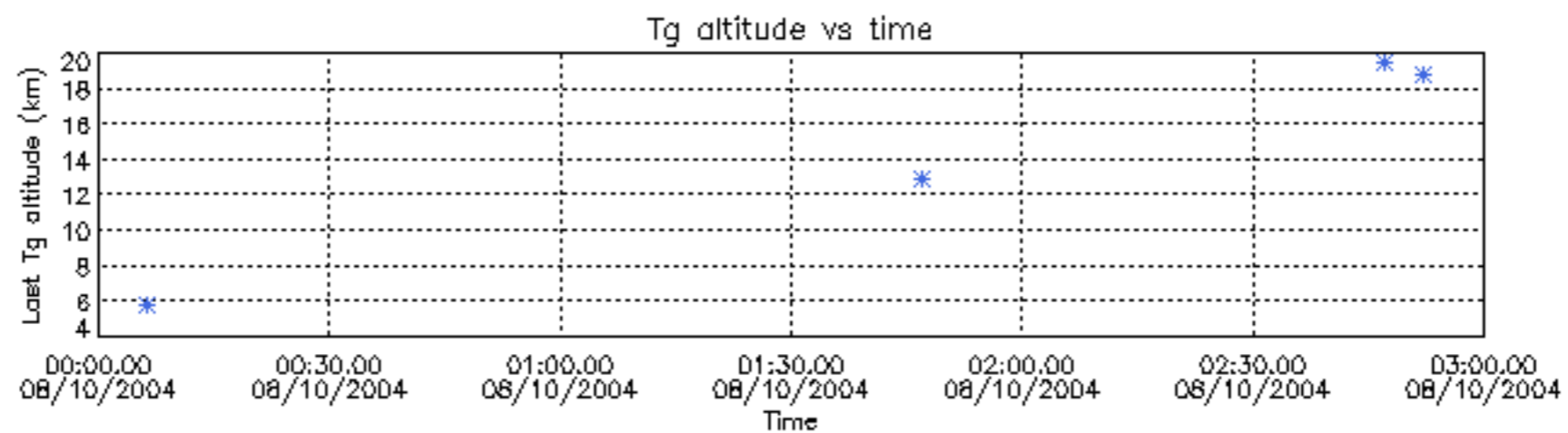
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 8; 602.9; 01-OCT-2004 01:56:46; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;13527
 9; 732.6; 01-OCT-2004 01:58:56; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13527
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 12; 1141.6; 01-OCT-2004 02:05:45; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;13527
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 16; 2166.5; 01-OCT-2004 02:22:50; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13527
 17; 2383.4; 01-OCT-2004 02:26:27; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;13527
 18; 2522.4; 01-OCT-2004 02:28:46; Bright; 65.5; 105; 6Bet Ari ; 2.64; 8900;occ; 131; 0;13527
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 22; 3263.7; 01-OCT-2004 02:41:07; Bright; 54.5; 160; 23Gam Per ; 2.93; 4700;occ; 109; 0;13527
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 10; -137.5; 01-OCT-2004 05:05:38; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;13528
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15; 733.3; 01-OCT-2004 05:20:09; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13529
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 7; 2167.5; 01-OCT-2004 20:49:27; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;13538
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14; 3427.1; 01-OCT-2004 21:10:26; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13538
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18; 4190.1; 01-OCT-2004 21:23:09; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;13538
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 13; 903.7; 19-OCT-2004 07:38:08; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;13788
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2; 1203.5; 20-OCT-2004 20:36:19; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;13810
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5; 2313.1; 20-OCT-2004 20:54:48; Bright; 45.0; 105; 6Bet Ari ; 2.64; 8900;occ; 90; 0;13810
6; 2428.7; 20-OCT-2004 20:56:44; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;13810
7; 2531.1; 20-OCT-2004 20:58:26; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;13810
8; 2719.7; 20-OCT-2004 21:01:35; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;13810
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13; 3620.4; 20-OCT-2004 21:16:36; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;13810
14; 3917.7; 20-OCT-2004 21:21:33; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;13810
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3;	-58.7;	20-OCT-2004	21:55:52;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13810
4;	209.3;	20-OCT-2004	22:00:20;	Dark	;	65.5;	117;	Pi Pup	;	2.71;	3800;occ;	131;	0;	13811
5;	398.7;	20-OCT-2004	22:03:30;	Dark	;	50.5;	2;	Alp Car	;	-0.74;	7000;occ;	101;	0;	13811
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7;	1078.9;	20-OCT-2004	22:14:50;	Dark	;	45.5;	157;	The1Eri	;	2.91;	9300;occ;	91;	0;	13811
8;	1203.7;	20-OCT-2004	22:16:55;	Dark	;	42.0;	84;	Alp Phe	;	2.40;	4500;occ;	84;	0;	13811
9;	1594.3;	20-OCT-2004	22:23:25;	Dark	;	47.5;	52;	16Bet Cet	;	2.04;	4500;occ;	95;	0;	13811
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13;	2531.0;	20-OCT-2004	22:39:02;	Bright;		40.5;	53;	43Bet And	;	2.05;	3300;occ;	81;	0;	13811
14;	2719.1;	20-OCT-2004	22:42:10;	Bright;		42.0;	73;	57Gam1And	;	2.26;	13100;occ;	84;	0;	13811
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4;	210.5;	20-OCT-2004	23:40:57;	Dark	;	59.5;	117;	Pi Pup	;	2.71;	3800;occ;	119;	0;	13812
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17;	3082.3;	21-OCT-2004	00:28:49;	Bright;		39.0;	89;	5Alp Cep	;	2.45;	8000;occ;	78;	0;	13812
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22;	4221.2;	21-OCT-2004	00:47:48;	Bright;		37.5;	174;	52Psi UMa	;	3.00;	4400;occ;	75;	0;	13812
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