

GOMOS Daily Report 15-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	17OCT2004 05:01:33
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (15OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (16OCT2004 00:00:00)

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

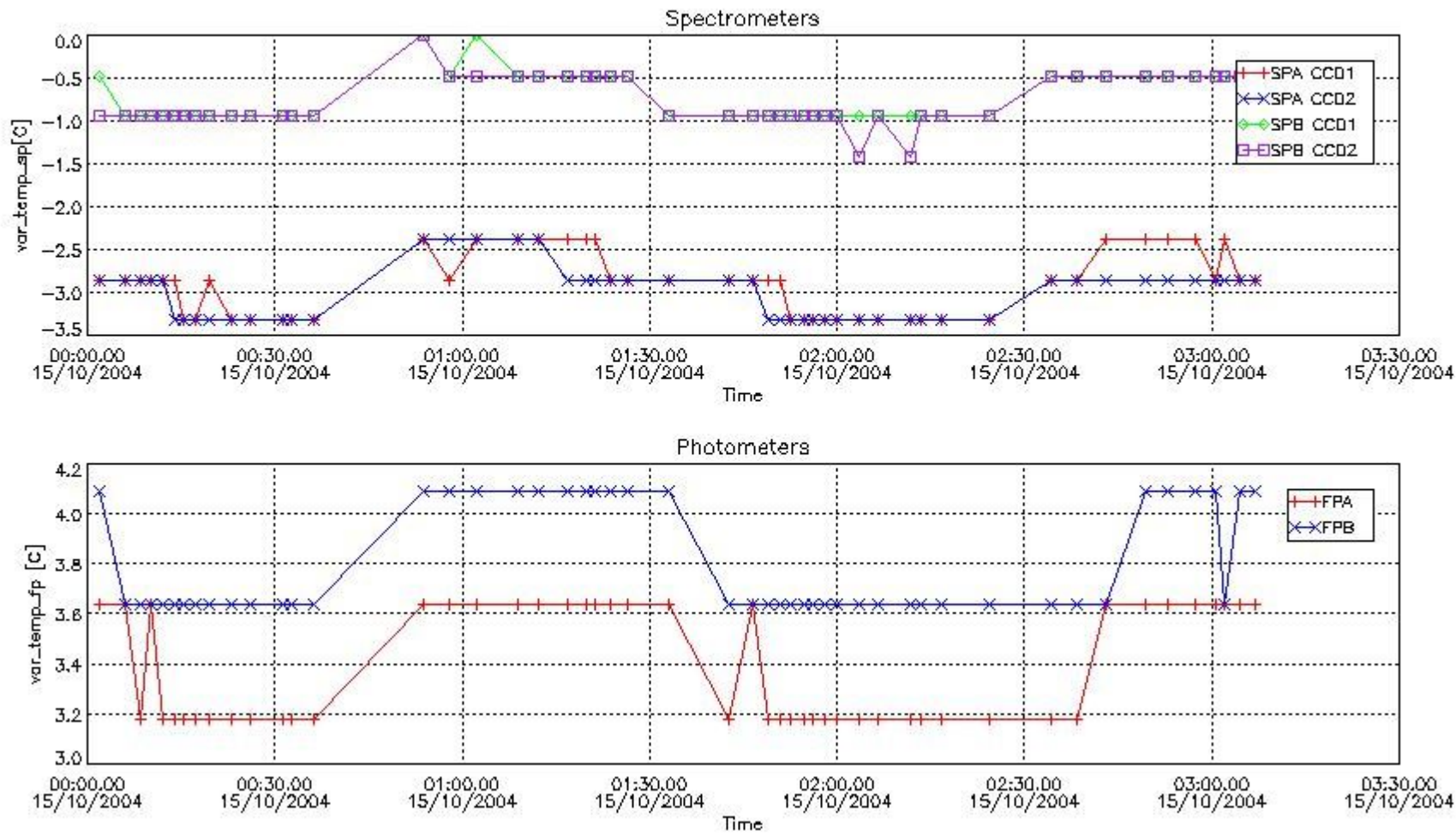
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20041015_000158_000000412031_00145_13726_0010.N1	15-OCT-2004 00:01:58	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	13726	No
GOM_TRA_1PNPDE20041015_000557_000000392031_00145_13726_0011.N1	15-OCT-2004 00:05:57	Bright	38.500	58	21Alp And	2.0730	11000.	77	13726	No
GOM_TRA_1PNPDE20041015_000831_000000462031_00145_13726_0012.N1	15-OCT-2004 00:08:31	Bright	45.500	53	43Bet And	2.0480	3300.0	91	13726	No
GOM_TRA_1PNPDE20041015_001013_000000482031_00145_13726_0013.N1	15-OCT-2004 00:10:13	Bright	47.500	173	4Bet Tri	3.0040	8900.0	95	13726	No
GOM_TRA_1PNPDE20041015_001201_000000512031_00145_13726_0014.N1	15-OCT-2004 00:12:01	Bright	51.000	73	57Gam1And	2.2600	13100.	102	13726	No
GOM_TRA_1PNPDE20041015_001401_000000372031_00145_13726_0015.N1	15-OCT-2004 00:14:01	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	13726	No
GOM_TRA_1PNPDE20041015_001523_000000392031_00145_13726_0016.N1	15-OCT-2004 00:15:23	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	13726	No
GOM_TRA_1PNPDE20041015_001723_000000452031_00145_13726_0017.N1	15-OCT-2004 00:17:23	Bright	44.500	160	23Gam Per	2.9300	4700.0	89	13726	No
GOM_TRA_1PNPDE20041015_001927_000000692031_00145_13726_0018.N1	15-OCT-2004 00:19:27	Bright	69.000	149	45Eps Per	2.8880	30000.	138	13726	No
GOM_TRA_1PNPDE20041015_002258_000000402031_00145_13726_0019.N1	15-OCT-2004 00:22:58	Bright	39.500	49	1Alp UMi	1.9900	6300.0	79	13726	No
GOM_TRA_1PNPDE20041015_002556_000000412031_00145_13726_0020.N1	15-OCT-2004 00:25:56	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	13726	No
GOM_TRA_1PNPDE20041015_003113_000000402031_00145_13726_0021.N1	15-OCT-2004 00:31:13	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	13726	No
GOM_TRA_1PNPDE20041015_003246_000000532031_00145_13726_0022.N1	15-OCT-2004 00:32:46	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	13726	No
GOM_TRA_1PNPDE20041015_003610_000000522031_00145_13726_0023.N1	15-OCT-2004 00:36:10	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	13726	No
GOM_TRA_1PNPDE20041015_005341_000000632031_00145_13726_0000.N1	15-OCT-2004 00:53:41	Twilight	63.000	48	30Alp Hya	1.9770	4100.0	126	13726	No
GOM_TRA_1PNPDE20041015_005749_000001392031_00145_13726_0001.N1	15-OCT-2004 00:57:49	Dark	138.50	8	10Alp CMi	0.40000	6500.0	277	13726	No
GOM_TRA_1PNPDE20041015_010226_000000402031_00145_13726_0002.N1	15-OCT-2004 01:02:26	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	13726	No
GOM_TRA_1PNPDE20041015_010850_000000412031_00146_13727_0003.N1	15-OCT-2004 01:08:50	Dark	40.500	29	Bet Car	1.6720	10200.	81	13727	No
GOM_TRA_1PNPDE20041015_011217_000001562031_00146_13727_0004.N1	15-OCT-2004 01:12:17	Dark	155.50	1	9Alp CMa	-1.4400	11000.	311	13727	No
GOM_TRA_1PNPDE20041015_011645_000000682031_00146_13727_0005.N1	15-OCT-2004 01:16:45	Dark	67.500	108	Alp Col	2.6520	15200.	135	13727	No
GOM_TRA_1PNPDE20041015_011953_000000392031_00146_13727_0006.N1	15-OCT-2004 01:19:53	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	13727	No
GOM_TRA_1PNPDE20041015_012119_000000482031_00146_13727_0007.N1	15-OCT-2004 01:21:19	Dark	47.500	9	Alp Eri	0.45300	24000.	95	13727	No
GOM_TRA_1PNPDE20041015_012351_000000472031_00146_13727_0008.N1	15-OCT-2004 01:23:51	Dark	46.500	157	The1Eri	2.9060	9300.0	93	13727	No
GOM_TRA_1PNPDE20041015_012620_000000462031_00146_13727_0009.N1	15-OCT-2004 01:26:20	Twilight	46.000	84	Alp Phe	2.3970	4500.0	92	13727	No
GOM_TRA_1PNPDE20041015_013256_000000482031_00146_13727_0010.N1	15-OCT-2004 01:32:56	Bright	48.000	52	16Bet Cet	2.0370	4500.0	96	13727	No
GOM_TRA_1PNPDE20041015_014236_000000402031_00146_13727_0011.N1	15-OCT-2004 01:42:36	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	13727	No
GOM_TRA_1PNPDE20041015_014633_000000402031_00146_13727_0012.N1	15-OCT-2004 01:46:33	Bright	39.500	58	21Alp And	2.0730	11000.	79	13727	No
GOM_TRA_1PNPDE20041015_014905_000000472031_00146_13727_0013.N1	15-OCT-2004 01:49:05	Bright	47.000	53	43Bet And	2.0480	3300.0	94	13727	No
GOM_TRA_1PNPDE20041015_015048_000000472031_00146_13727_0014.N1	15-OCT-2004 01:50:48	Bright	47.000	173	4Bet Tri	3.0040	8900.0	94	13727	No
GOM_TRA_1PNPDE20041015_015238_000000472031_00146_13727_0015.N1	15-OCT-2004 01:52:38	Bright	46.500	73	57Gam1And	2.2600	13100.	93	13727	No
GOM_TRA_1PNPDE20041015_015437_000000432031_00146_13727_0016.N1	15-OCT-2004 01:54:37	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	13727	No
GOM_TRA_1PNPDE20041015_015559_000000412031_00146_13727_0017.N1	15-OCT-2004 01:55:59	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	13727	No
GOM_TRA_1PNPDE20041015_015758_000000492031_00146_13727_0018.N1	15-OCT-2004 01:57:58	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	13727	No
GOM_TRA_1PNPDE20041015_020001_000000702031_00146_13727_0019.N1	15-OCT-2004 02:00:01	Bright	69.500	149	45Eps Per	2.8880	30000.	139	13727	No
GOM_TRA_1PNPDE20041015_020334_000000412031_00146_13727_0020.N1	15-OCT-2004 02:03:34	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	13727	No
GOM_TRA_1PNPDE20041015_020634_000000402031_00146_13727_0000.N1	15-OCT-2004 02:06:34	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	13727	No
GOM_TRA_1PNPDE20041015_021149_000000412031_00146_13727_0001.N1	15-OCT-2004 02:11:49	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	13727	No
GOM_TRA_1PNPDE20041015_021321_000000412031_00146_13727_0002.N1	15-OCT-2004 02:13:21	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	13727	No
GOM_TRA_1PNPDE20041015_021646_000000522031_00146_13727_0003.N1	15-OCT-2004 02:16:46	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	13727	No
GOM_TRA_1PNPDE20041015_022429_000000992031_00146_13727_0004.N1	15-OCT-2004 02:24:29	Bright	99.000	17	78Bet Gem	1.1610	4500.0	198	13727	No
GOM_TRA_1PNPDE20041015_023419_000000542031_00146_13727_0005.N1	15-OCT-2004 02:34:19	Twilight	54.000	48	30Alp Hya	1.9770	4100.0	108	13727	No
GOM_TRA_1PNPDE20041015_023828_000001352031_00146_13727_0006.N1	15-OCT-2004 02:38:28	Dark	135.00	8	10Alp CMi	0.40000	6500.0	270	13727	No
GOM_TRA_1PNPDE20041015_024302_000000402031_00146_13727_0007.N1	15-OCT-2004 02:43:02	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	13727	No
GOM_TRA_1PNPDE20041015_024927_000000432031_00147_13728_0008.N1	15-OCT-2004 02:49:27	Dark	43.000	29	Bet Car	1.6720	10200.	86	13728	No
GOM_TRA_1PNPDE20041015_025256_000001432031_00147_13728_0009.N1	15-OCT-2004 02:52:56	Dark	142.50	1	9Alp CMa	-1.4400	11000.	285	13728	No
GOM_TRA_1PNPDE20041015_025721_000000702031_00147_13728_0010.N1	15-OCT-2004 02:57:21	Dark	69.500	108	Alp Col	2.6520	15200.	139	13728	No
GOM_TRA_1PNPDE20041015_030029_000000402031_00147_13728_0011.N1	15-OCT-2004 03:00:29	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	13728	No
GOM_TRA_1PNPDE20041015_030155_000000512031_00147_13728_0012.N1	15-OCT-2004 03:01:55	Dark	51.000	9	Alp Eri	0.45300	24000.	102	13728	No
GOM_TRA_1PNPDE20041015_030428_000000482031_00147_13728_0013.N1	15-OCT-2004 03:04:28	Dark	47.500	157	The1Eri	2.9060	9300.0	95	13728	No

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



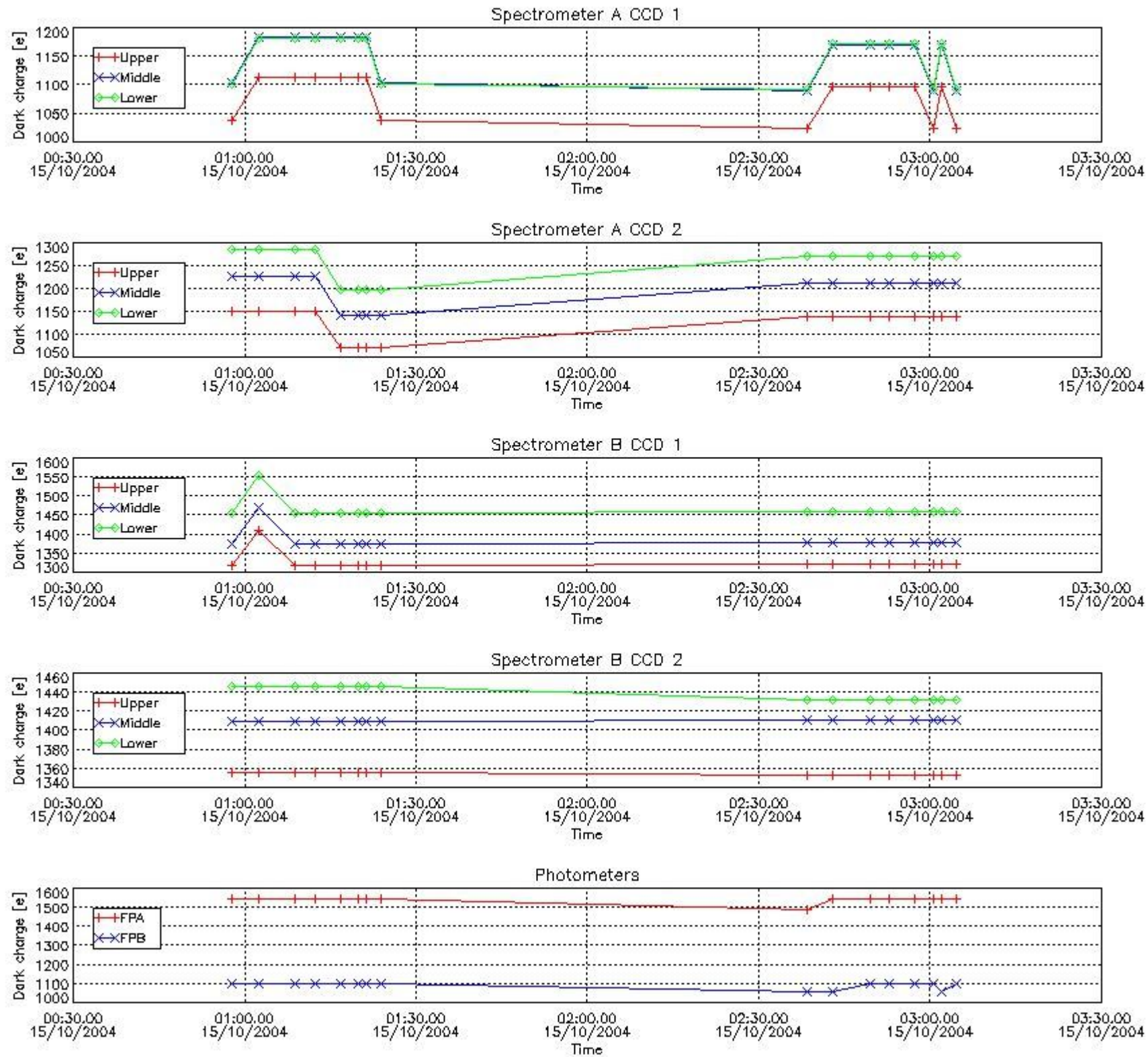
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



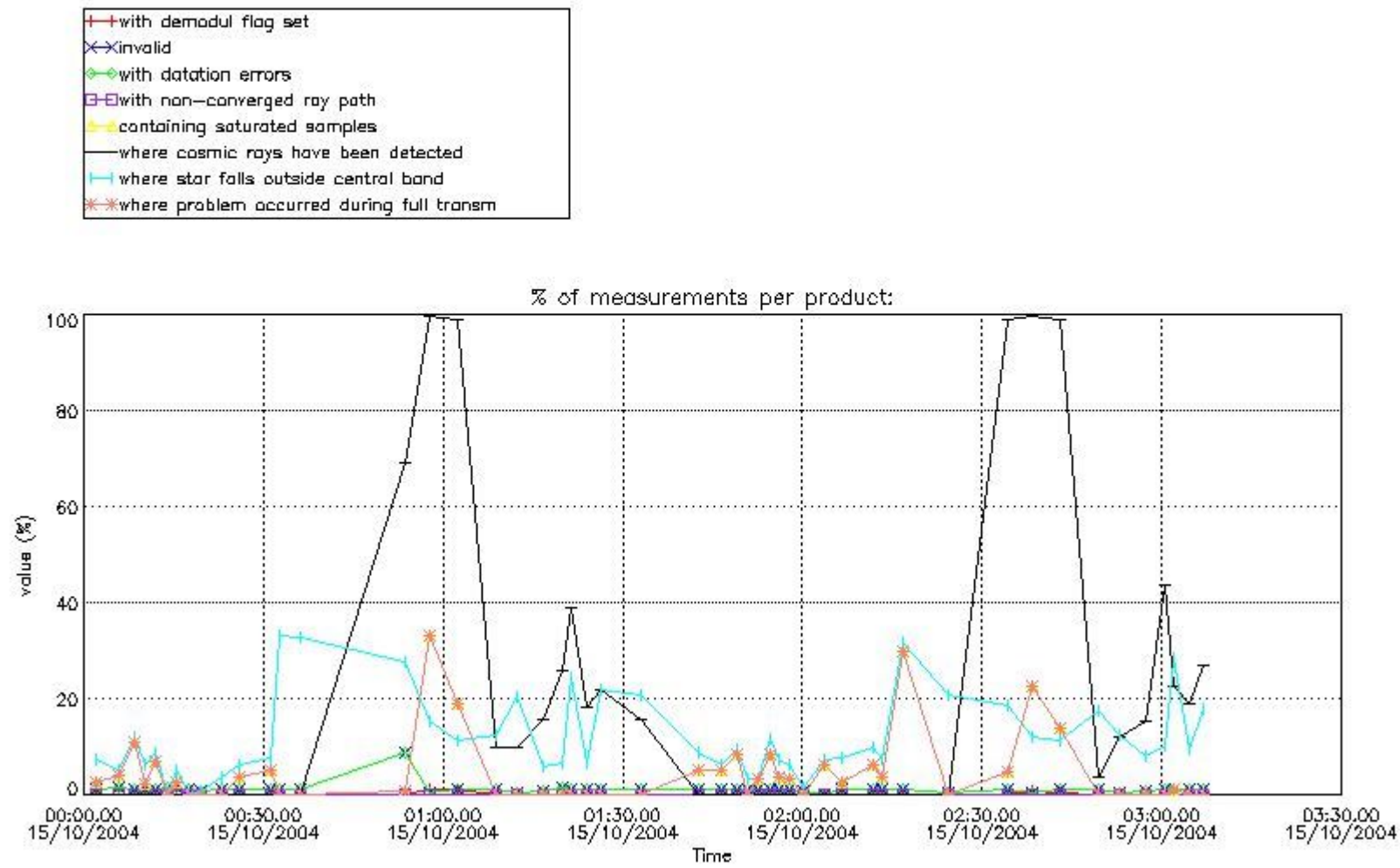
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

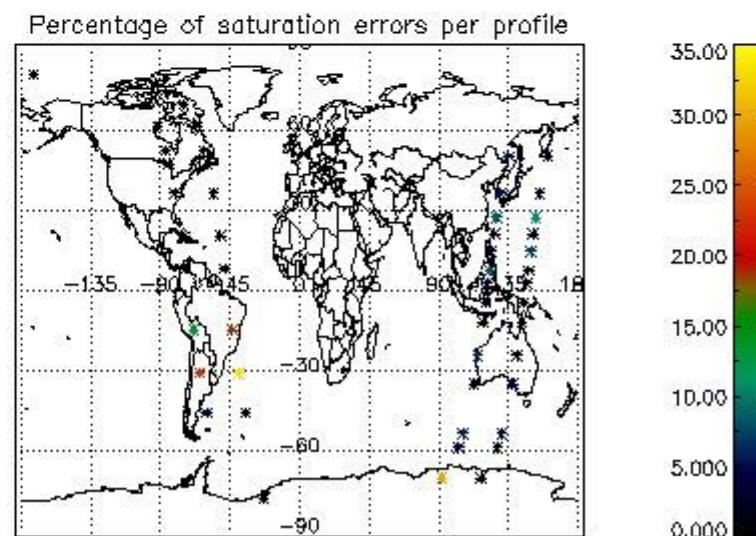
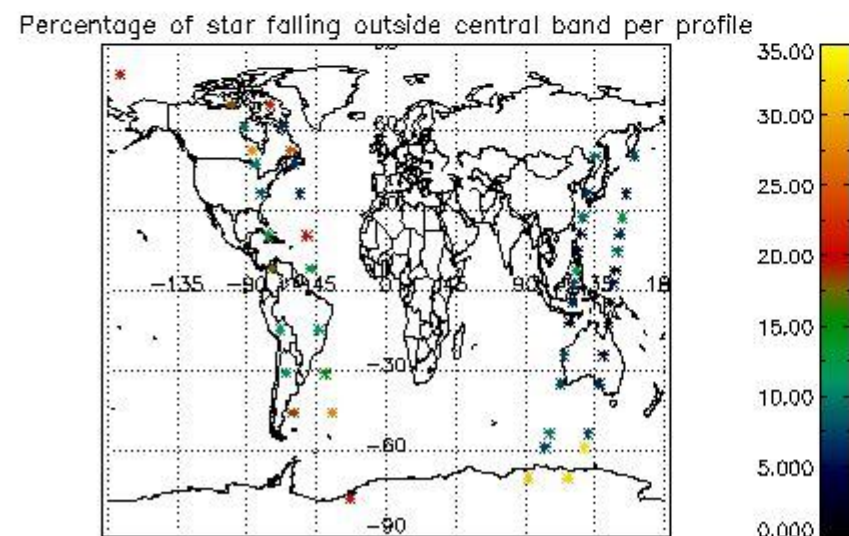
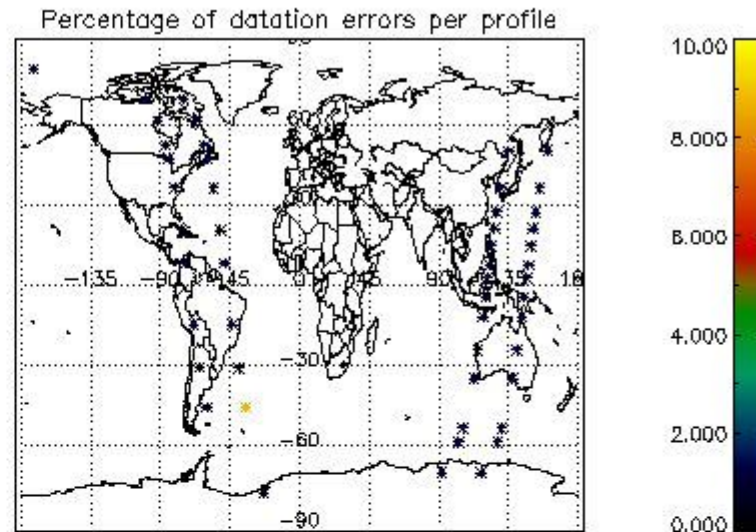
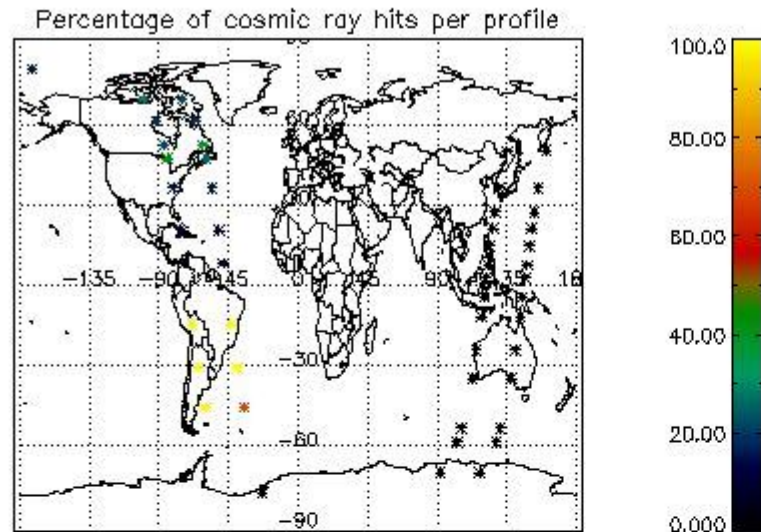
5.1 Percentage of products during reporting period with:

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



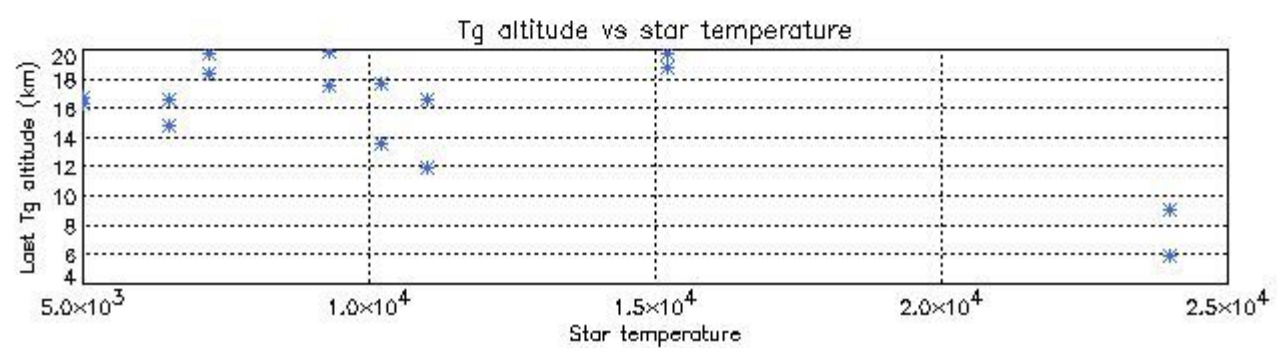
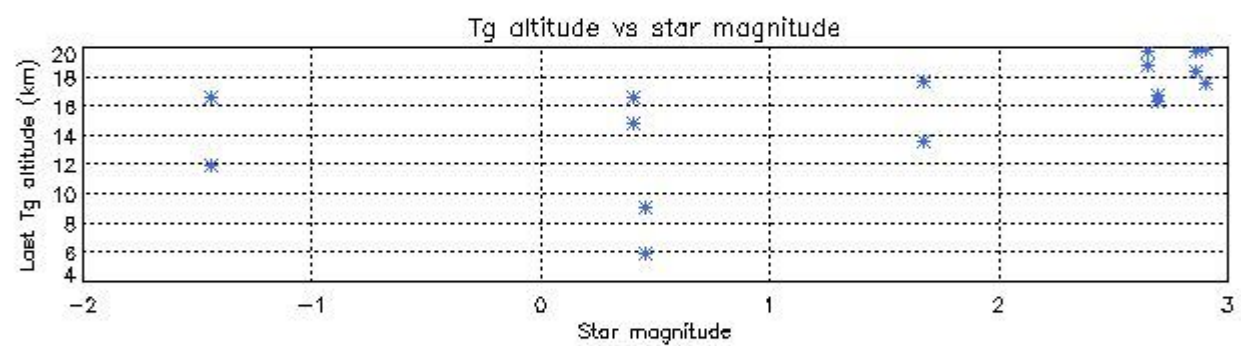
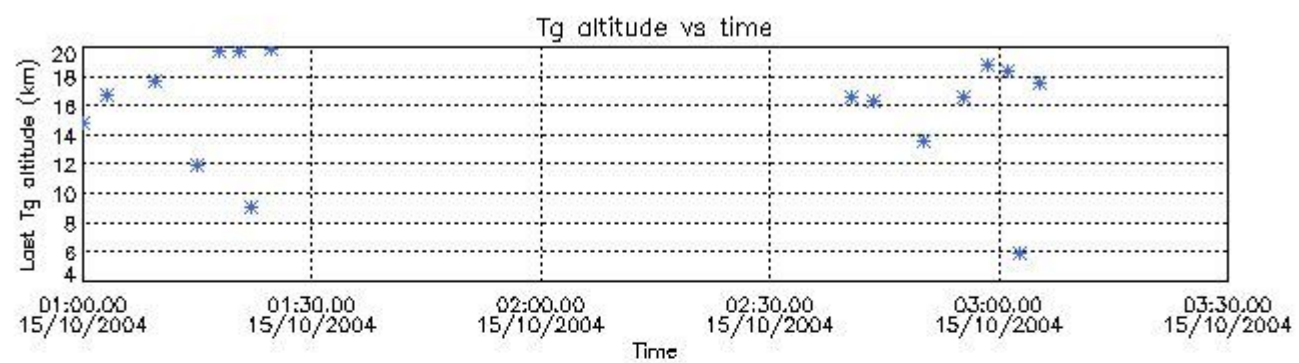
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.846	19.052	10.560
St. deviation:	3.9700	6.0109	2.8610
Maximum:	19.913	28.901	12.626
Minimum:	5.9708	5.3307	6.3985
Number of data:	16.000	30.000	4.0000

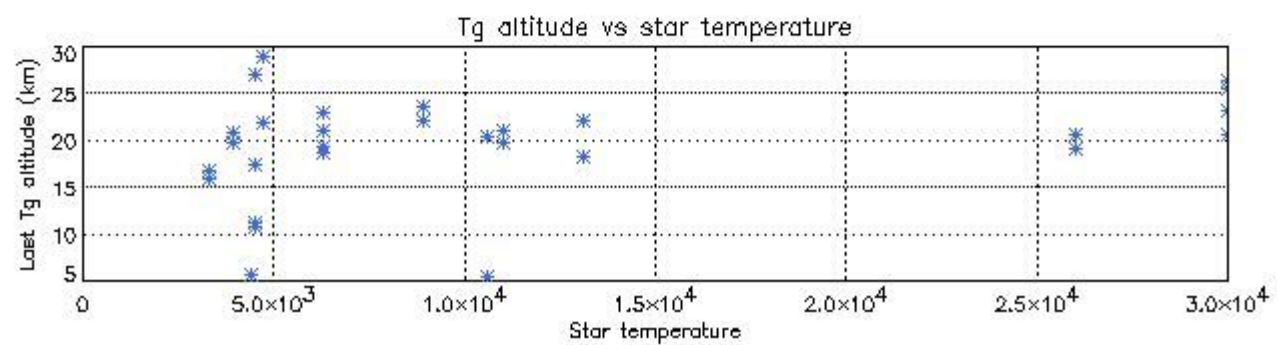
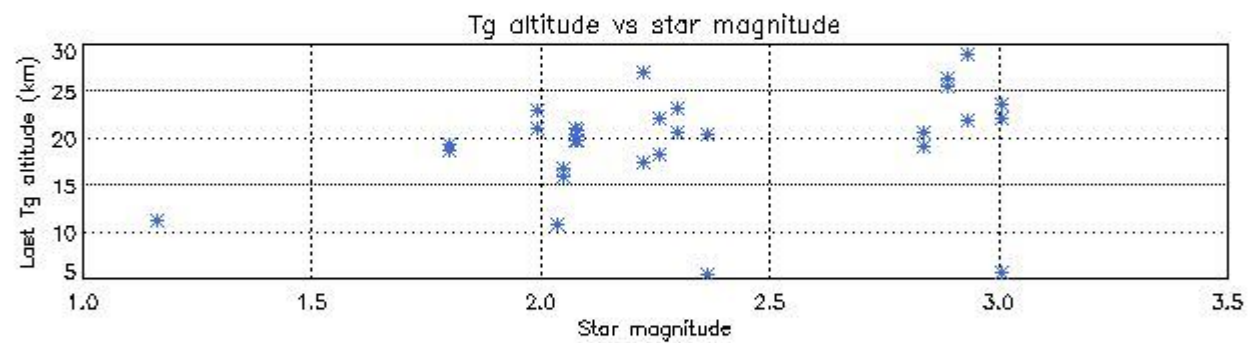
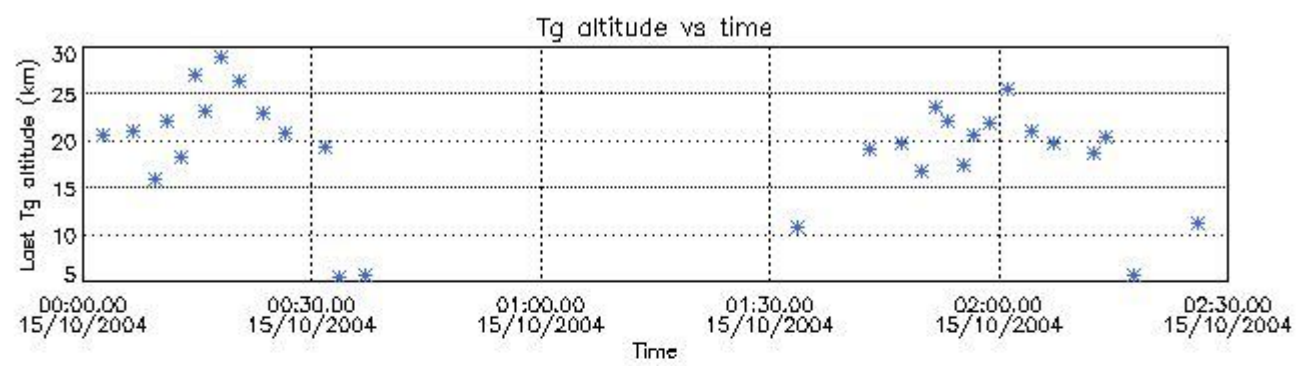
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



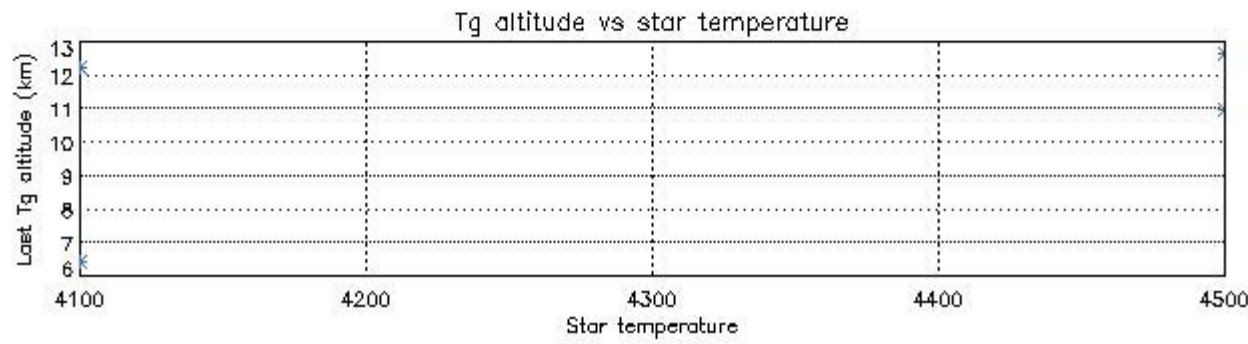
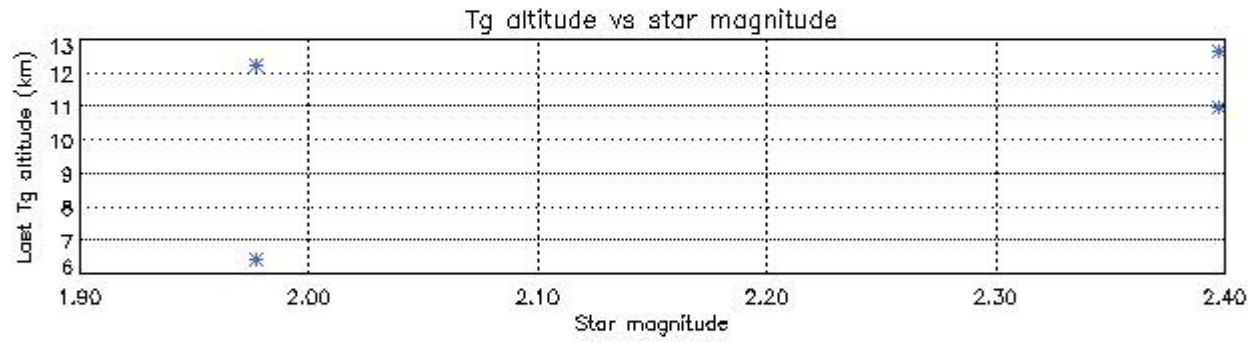
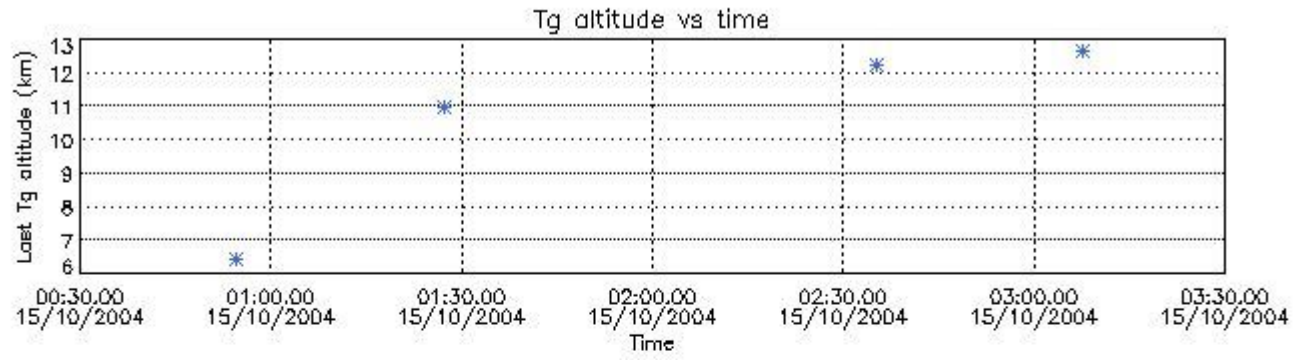
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

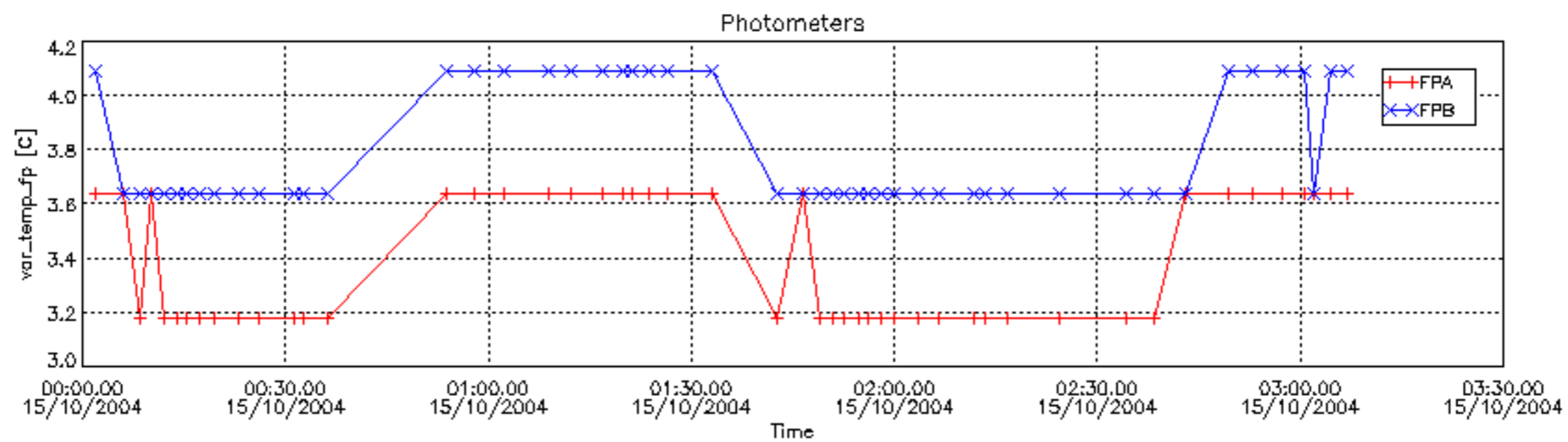
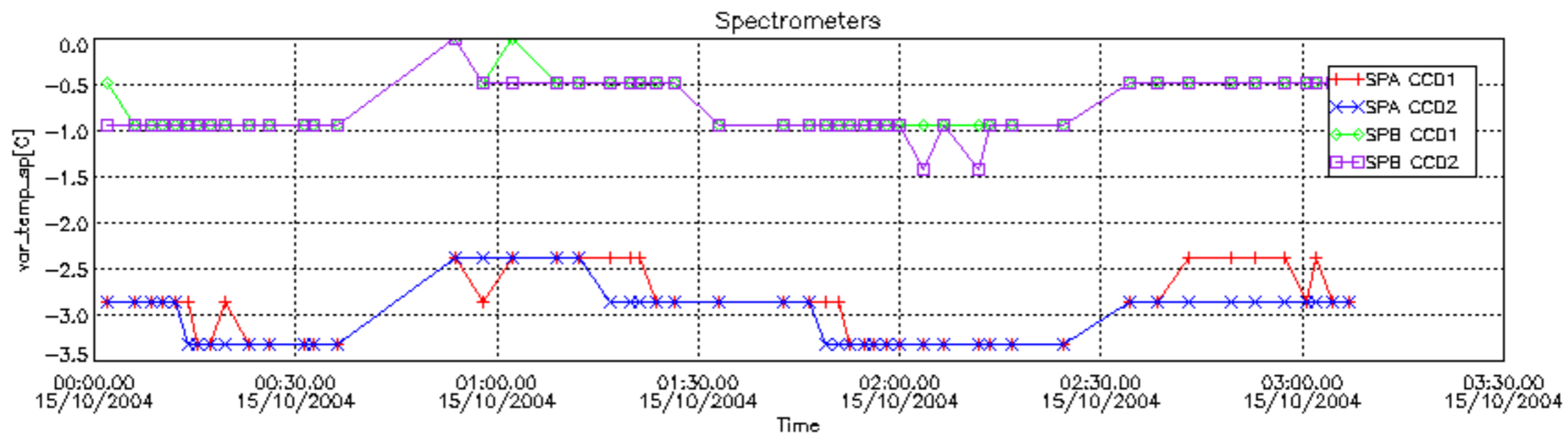
Tangent altitude at which the star is lost

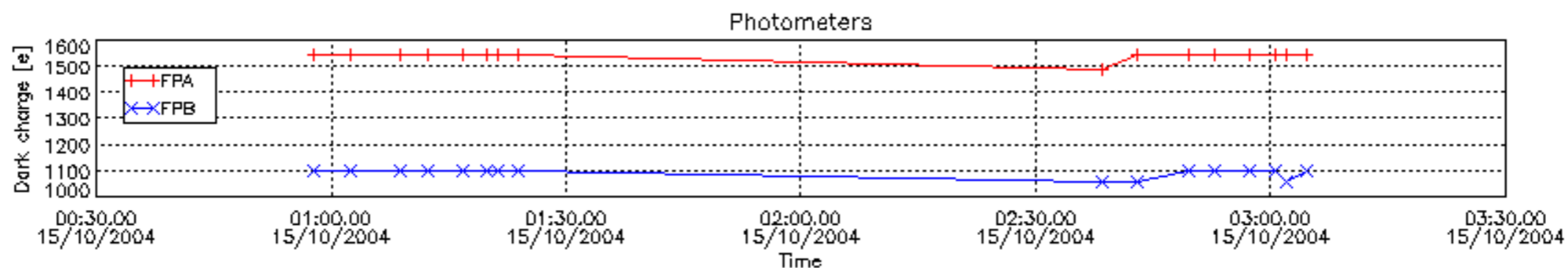
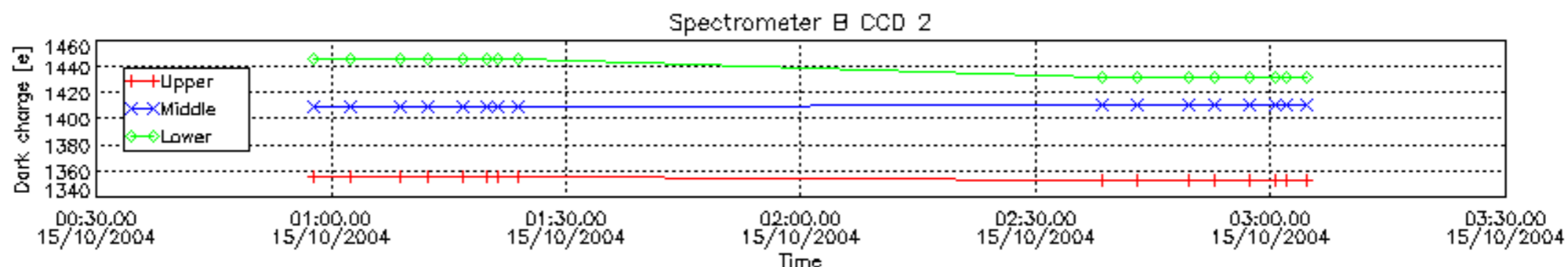
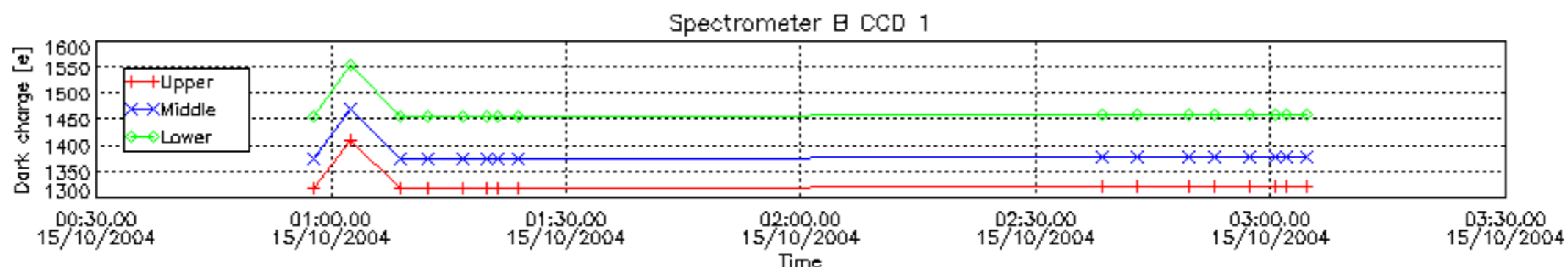
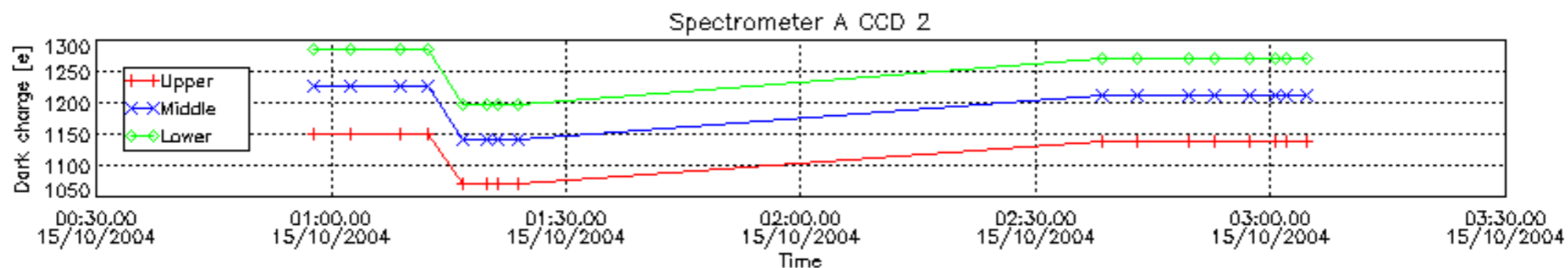
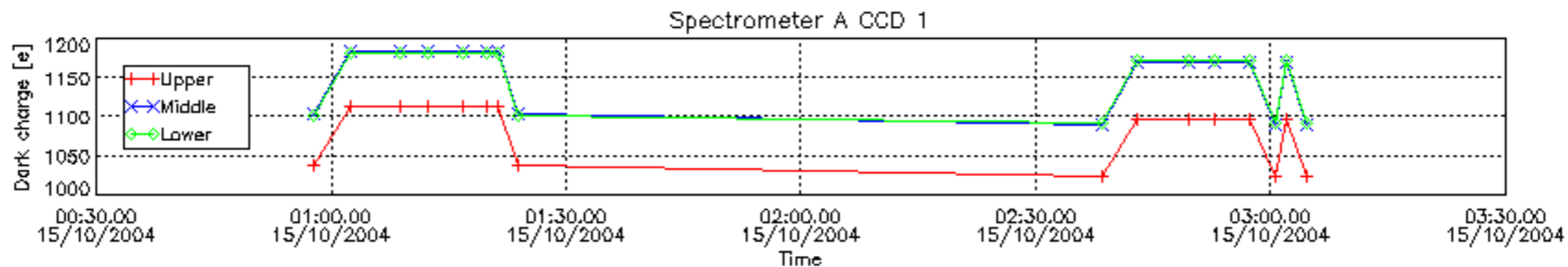


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

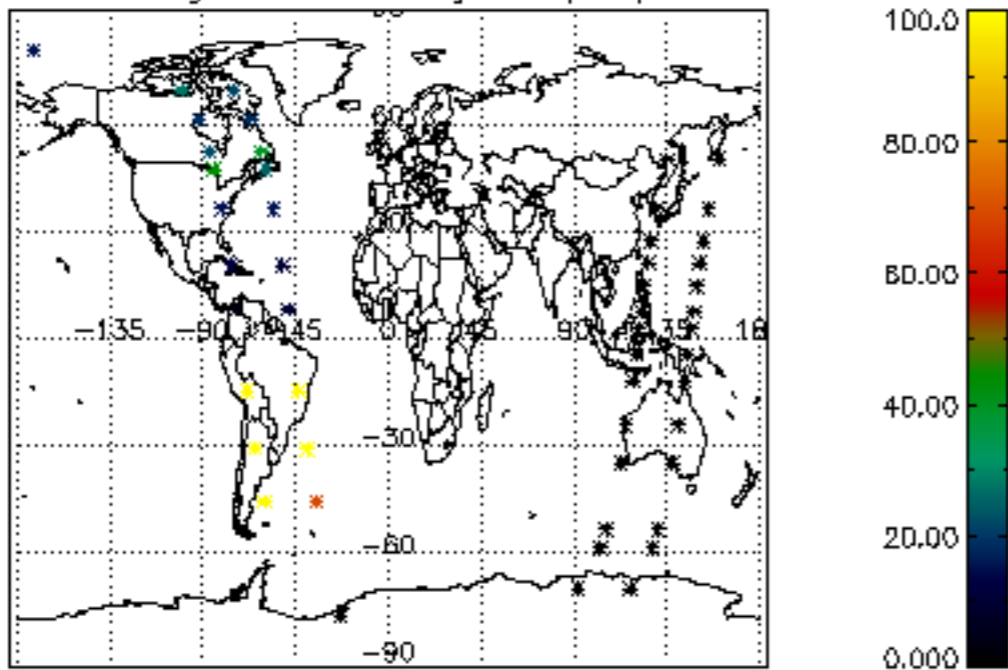
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.9	1448.8	1461.8	1447.5
St. deviation:	5.2740	6.6803	7.5593	8.3641
Maximum:	1500.0	1710.0	1523.0	1506.0
Minimum:	1429.0	1410.0	1450.0	1432.0
Number of data:	27800.	27800.	37800.	37800.

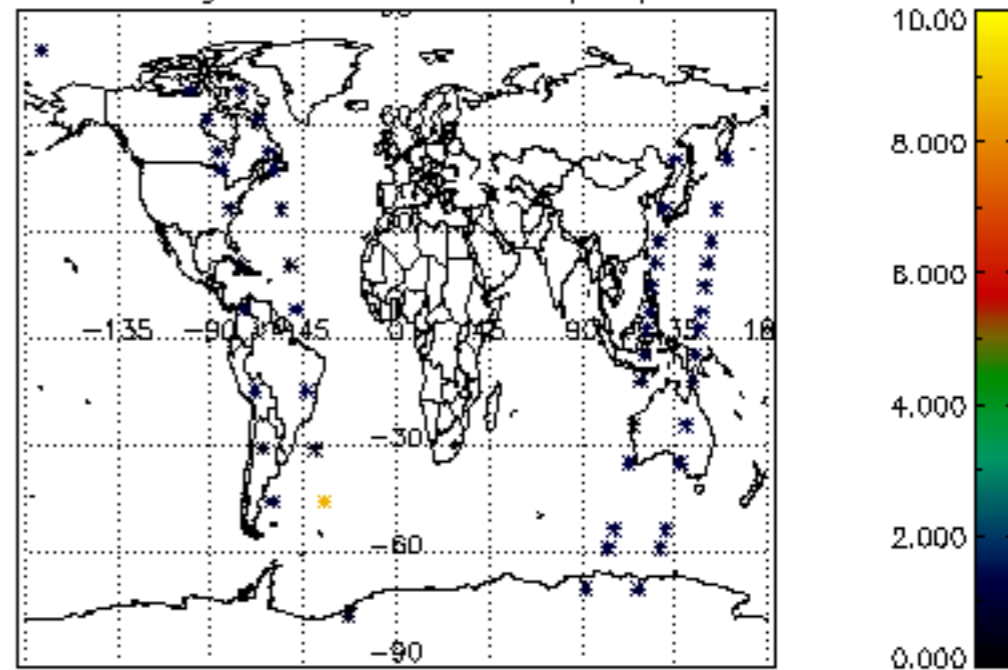




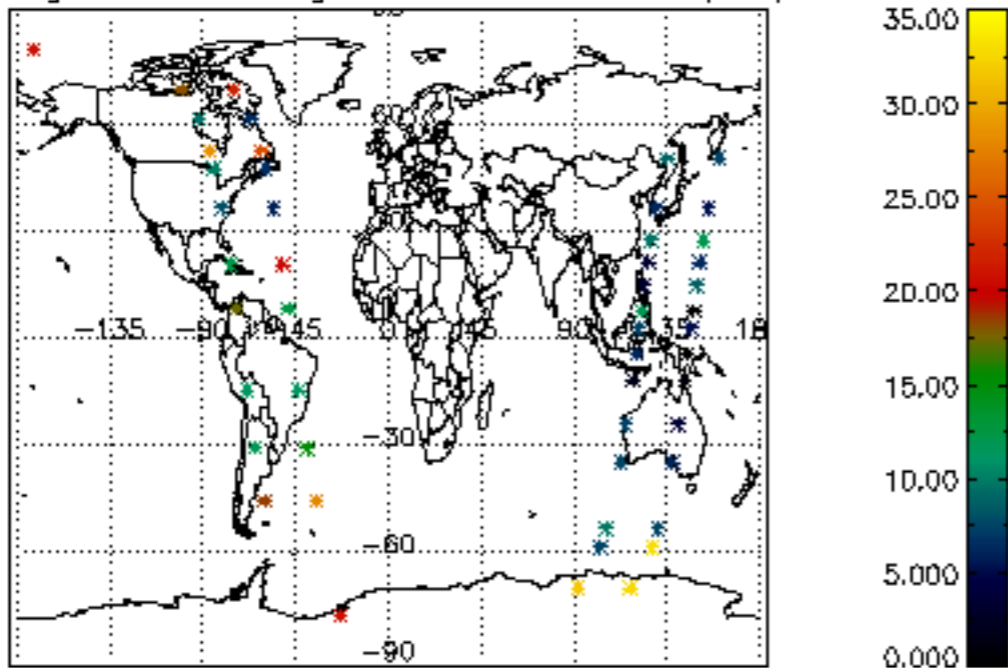
Percentage of cosmic ray hits per profile



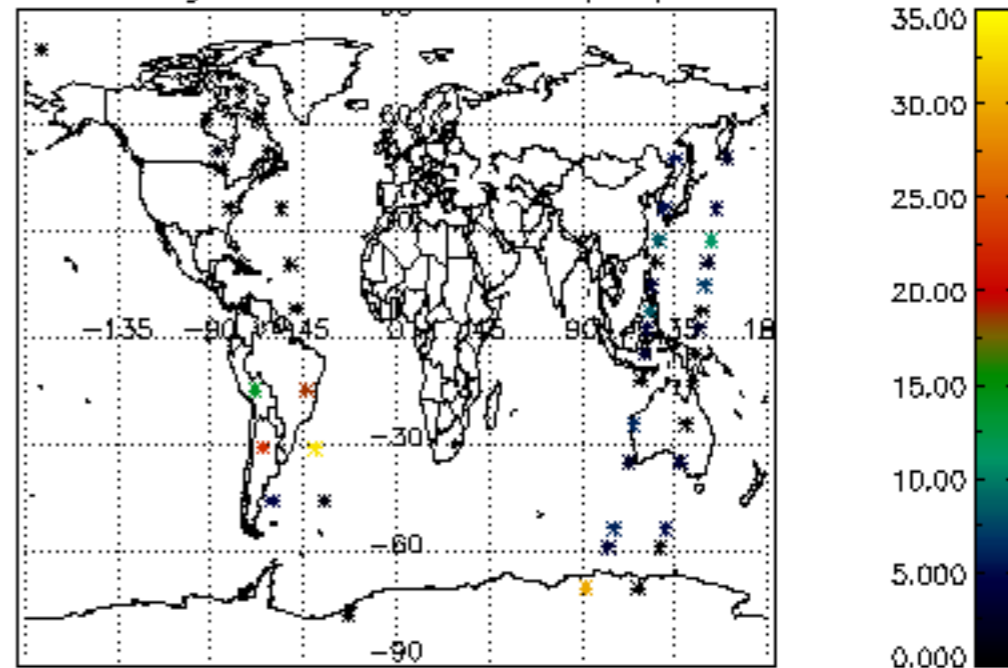
Percentage of datation errors per profile



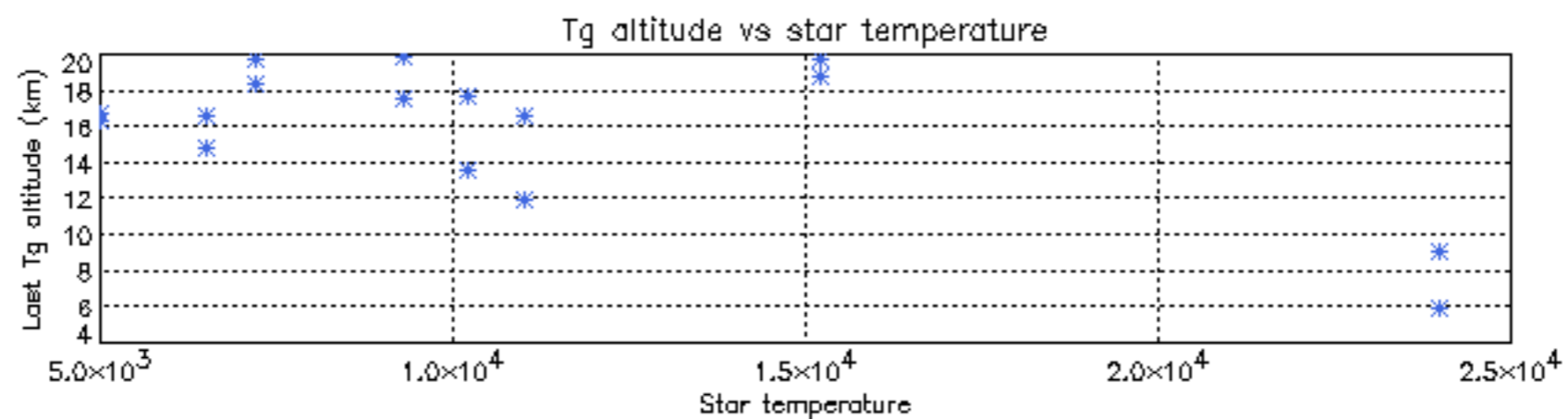
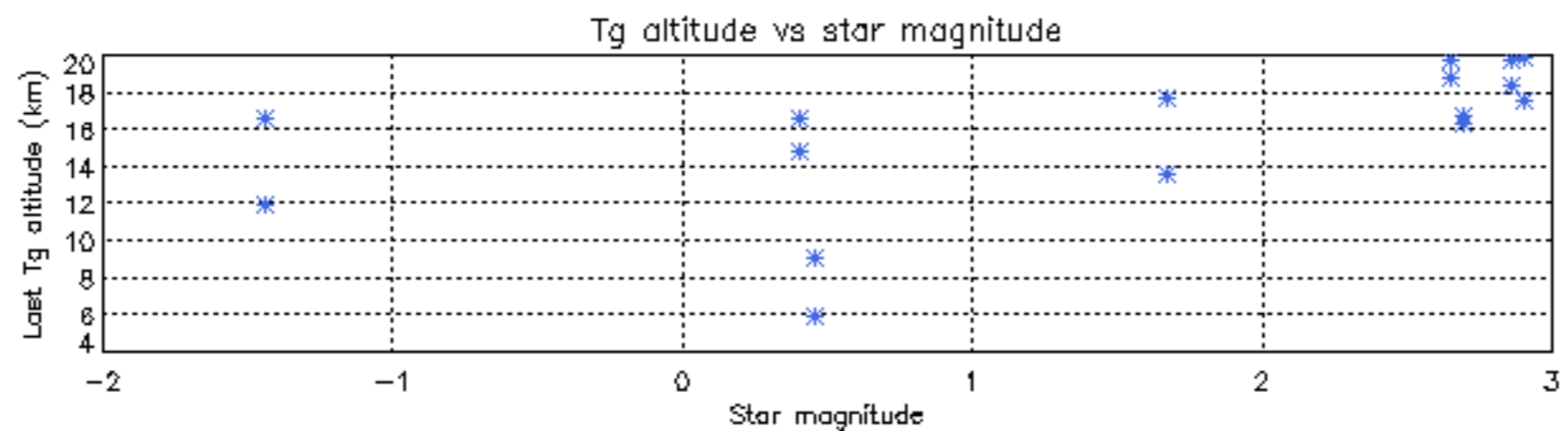
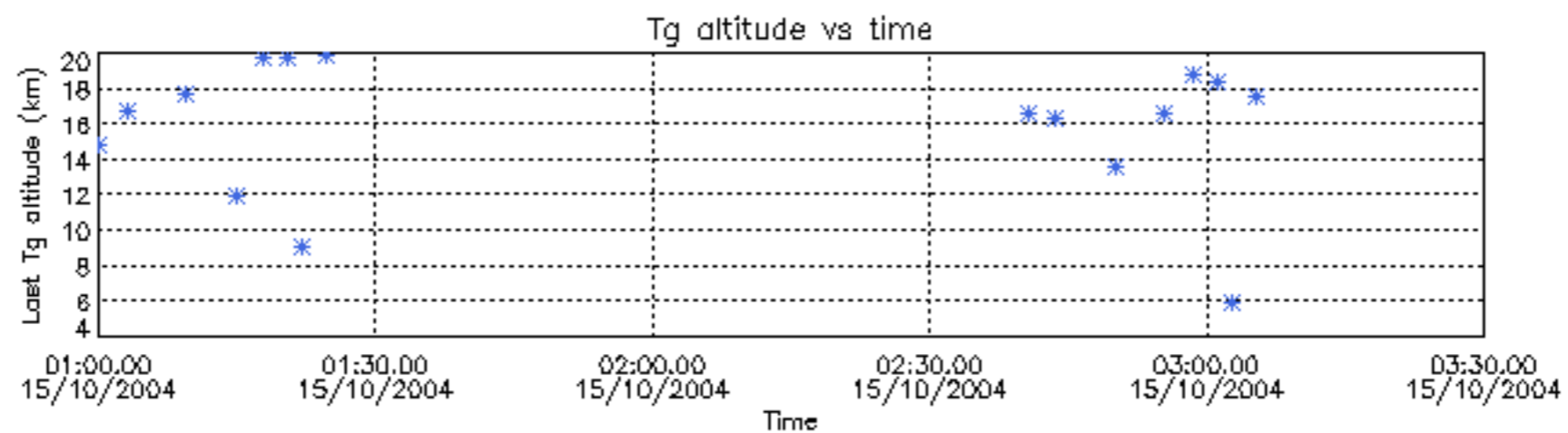
Percentage of star falling outside central band per profile



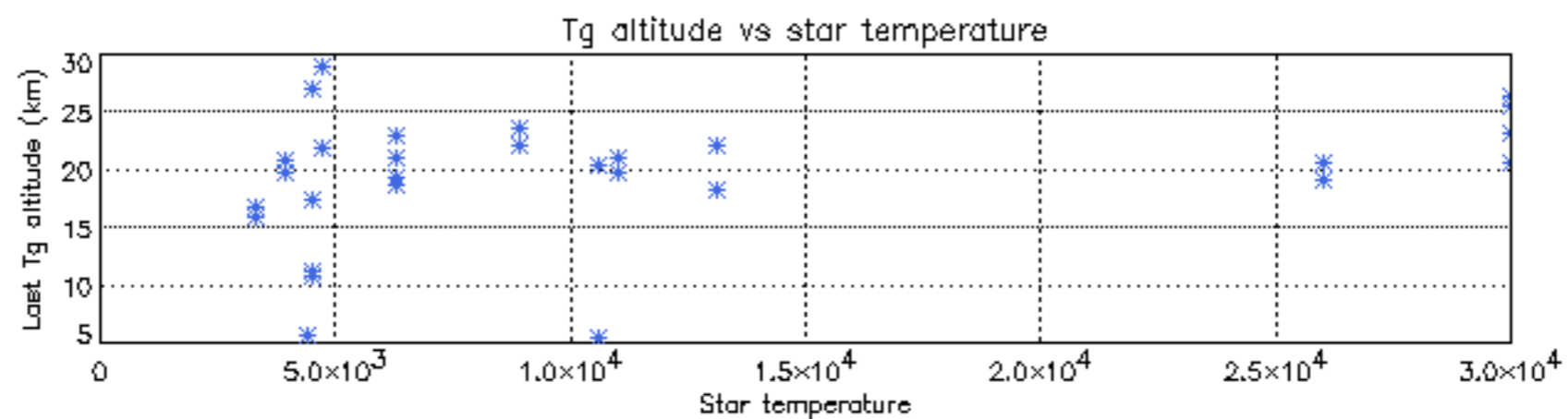
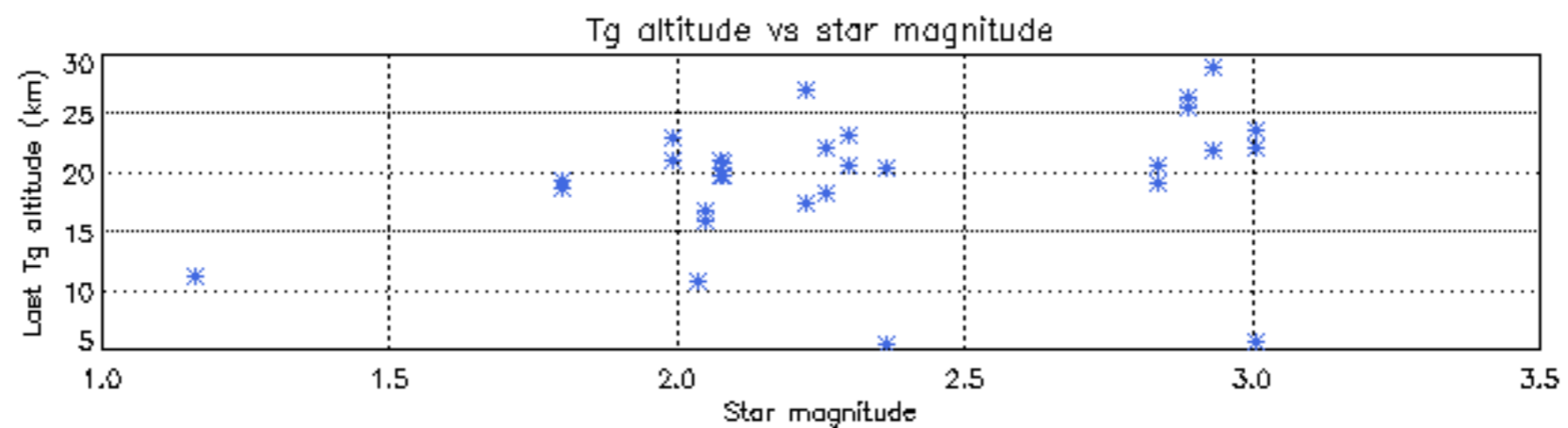
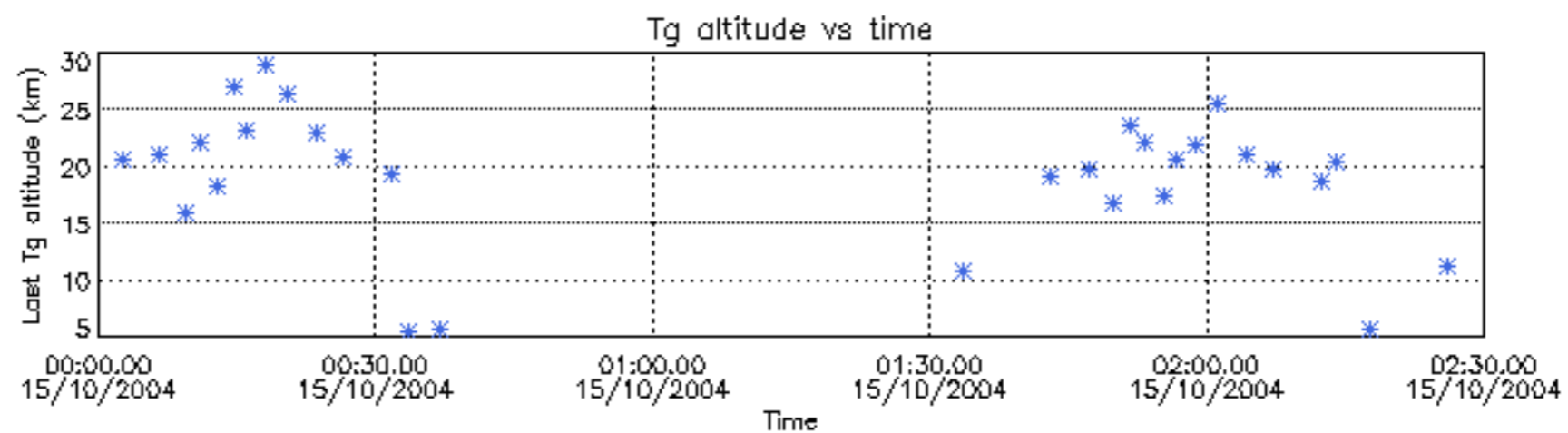
Percentage of saturation errors per profile



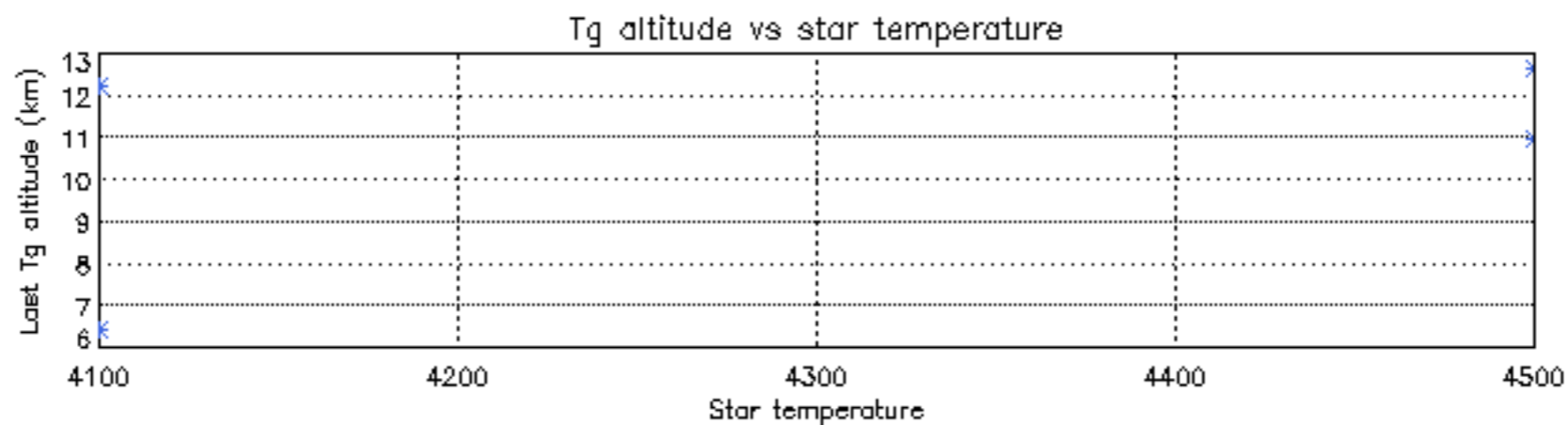
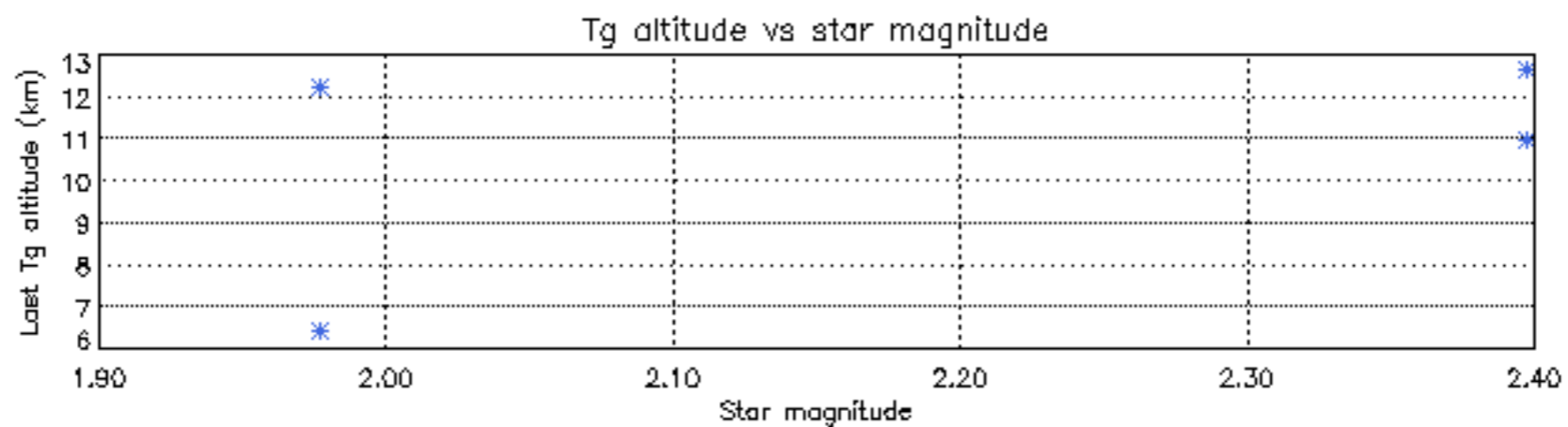
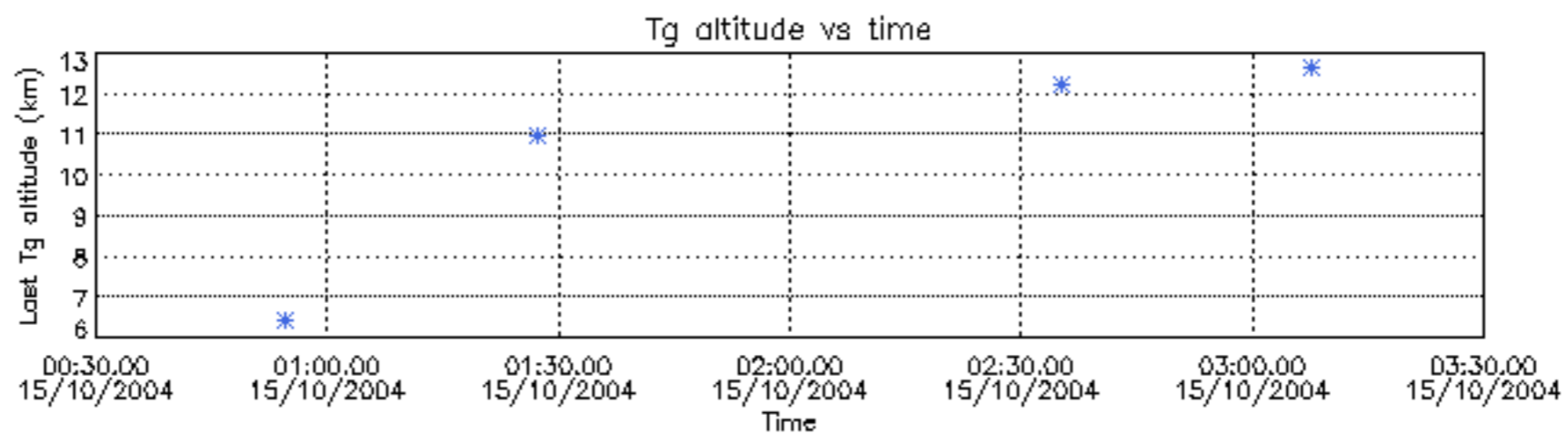
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 4; -140.4; 01-OCT-2004 01:44:23; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;13526
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 6; 171.9; 01-OCT-2004 01:49:35; Dark ; 56.5; 2; Alp Car ;-0.74; 7000;occ; 113; 0;13527
 7; 308.8; 01-OCT-2004 01:51:52; Dark ; 65.5; 108; Alp Col ; 2.65; 15200;occ; 131; 0;13527
 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
 10; 819.5; 01-OCT-2004 02:00:23; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13527
 11; 917.2; 01-OCT-2004 02:02:01; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;13527
 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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 14; 1556.0; 01-OCT-2004 02:12:40; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;13527
 15; 1944.2; 01-OCT-2004 02:19:08; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;13527
 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
 19; 2655.0; 01-OCT-2004 02:30:59; Bright; 50.0; 53; 43Bet And ; 2.05; 3300;occ; 100; 0;13527
 20; 2947.1; 01-OCT-2004 02:35:51; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 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
 23; 3423.8; 01-OCT-2004 02:43:47; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13527

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 3; -2042.4; 01-OCT-2004 02:53:17; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;13527
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 15; 603.4; 01-OCT-2004 03:37:23; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13528
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 19; 1141.4; 01-OCT-2004 03:46:21; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13528
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 21; 1555.6; 01-OCT-2004 03:53:15; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;13528
 22; 1944.5; 01-OCT-2004 03:59:44; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;13528
 23; 2166.4; 01-OCT-2004 04:03:26; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;13528
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 25; 2520.9; 01-OCT-2004 04:09:20; Bright; 64.0; 105; 6Bet Ari ; 2.64; 8900;occ; 128; 0;13528
 26; 2653.9; 01-OCT-2004 04:11:33; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13528
 27; 2947.6; 01-OCT-2004 04:16:27; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;13528
 28; 3026.9; 01-OCT-2004 04:17:46; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13528
 29; 3262.7; 01-OCT-2004 04:21:42; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;13528
 30; 3425.7; 01-OCT-2004 04:24:25; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13528
 31; 3552.0; 01-OCT-2004 04:26:32; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;13528

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 5; -1523.7; 01-OCT-2004 04:42:32; Bright; 59.0; 24; 66Alp Gem ; 1.58; 10200;occ; 118; 0;13528
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21; 1944.6; 01-OCT-2004 05:40:20; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;13529
22; 2166.4; 01-OCT-2004 05:44:02; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13529
23; 2385.0; 01-OCT-2004 05:47:41; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;13529
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25; 2653.3; 01-OCT-2004 05:52:09; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;13529
26; 2948.0; 01-OCT-2004 05:57:04; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;13529
27; 3027.0; 01-OCT-2004 05:58:23; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13529
28; 3261.7; 01-OCT-2004 06:02:17; Bright; 53.5; 160; 23Gam Per ; 2.93; 4700;occ; 107; 0;13529
29; 3426.7; 01-OCT-2004 06:05:02; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13529
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 2; 925.3; 01-OCT-2004 20:28:45; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;13538
 3; 1142.5; 01-OCT-2004 20:32:22; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13538
 4; 1422.0; 01-OCT-2004 20:37:01; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;13538
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 6; 1946.6; 01-OCT-2004 20:45:46; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;13538
 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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 9; 2508.1; 01-OCT-2004 20:55:07; Bright; 62.0; 105; 6Bet Ari ; 2.64; 8900;occ; 124; 0;13538
10; 2647.8; 01-OCT-2004 20:57:27; Bright; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;13538
11; 2946.2; 01-OCT-2004 21:02:25; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;13538
12; 3024.3; 01-OCT-2004 21:03:43; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;13538
13; 3253.1; 01-OCT-2004 21:07:32; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;13538
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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16; 3905.9; 01-OCT-2004 21:18:25; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;13538
17; 3996.3; 01-OCT-2004 21:19:55; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;13538
18; 4190.1; 01-OCT-2004 21:23:09; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;13538
19; 4327.2; 01-OCT-2004 21:25:26; Bright; 100.0; 107; 37The Aur ; 2.65; 11000;occ; 200; 0;13538
20; 4512.6; 01-OCT-2004 21:28:32; Bright; 63.0; 24; 66Alp Gem ; 1.58; 10200;occ; 126; 0;13538
21; 4811.6; 01-OCT-2004 21:33:31; Dark ; 106.0; 170; 27Eps Gem ; 3.00; 9700;occ; 212; 0;13538
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12; 925.3; 01-OCT-2004 22:09:20; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;13539
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22; 3023.5; 01-OCT-2004 22:44:19; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13539
23; 3252.2; 01-OCT-2004 22:48:07; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;13539
24; 3426.7; 01-OCT-2004 22:51:02; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13539
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27; 3995.6; 01-OCT-2004 23:00:31; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;13539
28; 4189.9; 01-OCT-2004 23:03:45; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;13539
29; 4326.7; 01-OCT-2004 23:06:02; Bright; 93.5; 107; 37The Aur ; 2.65; 11000;occ; 187; 0;13539
30; 4513.9; 01-OCT-2004 23:09:09; Bright; 60.0; 24; 66Alp Gem ; 1.58; 10200;occ; 120; 0;13539
31; 4812.7; 01-OCT-2004 23:14:08; Dark ; 107.0; 170; 27Eps Gem ; 3.00; 9700;occ; 214; 0;13539
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11; 926.1; 01-OCT-2004 23:49:57; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;13540
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11; 276.9; 17-OCT-2004 06:50:19; Dark ; 46.0; 161; Tau Pup ; 2.93; 4500;occ; 92; 0;13759
12; 455.4; 17-OCT-2004 06:53:18; Dark ; 180.5; 1; 9Alp CMA ; -1.44; 11000;occ; 361; 0;13759
13; 809.1; 17-OCT-2004 06:59:11; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13759
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23; 809.4; 17-OCT-2004 08:39:48; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13760
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