

GOMOS Daily Report 26-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	28OCT2004 05:01:53
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (26OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (27OCT2004 00:00:00)

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

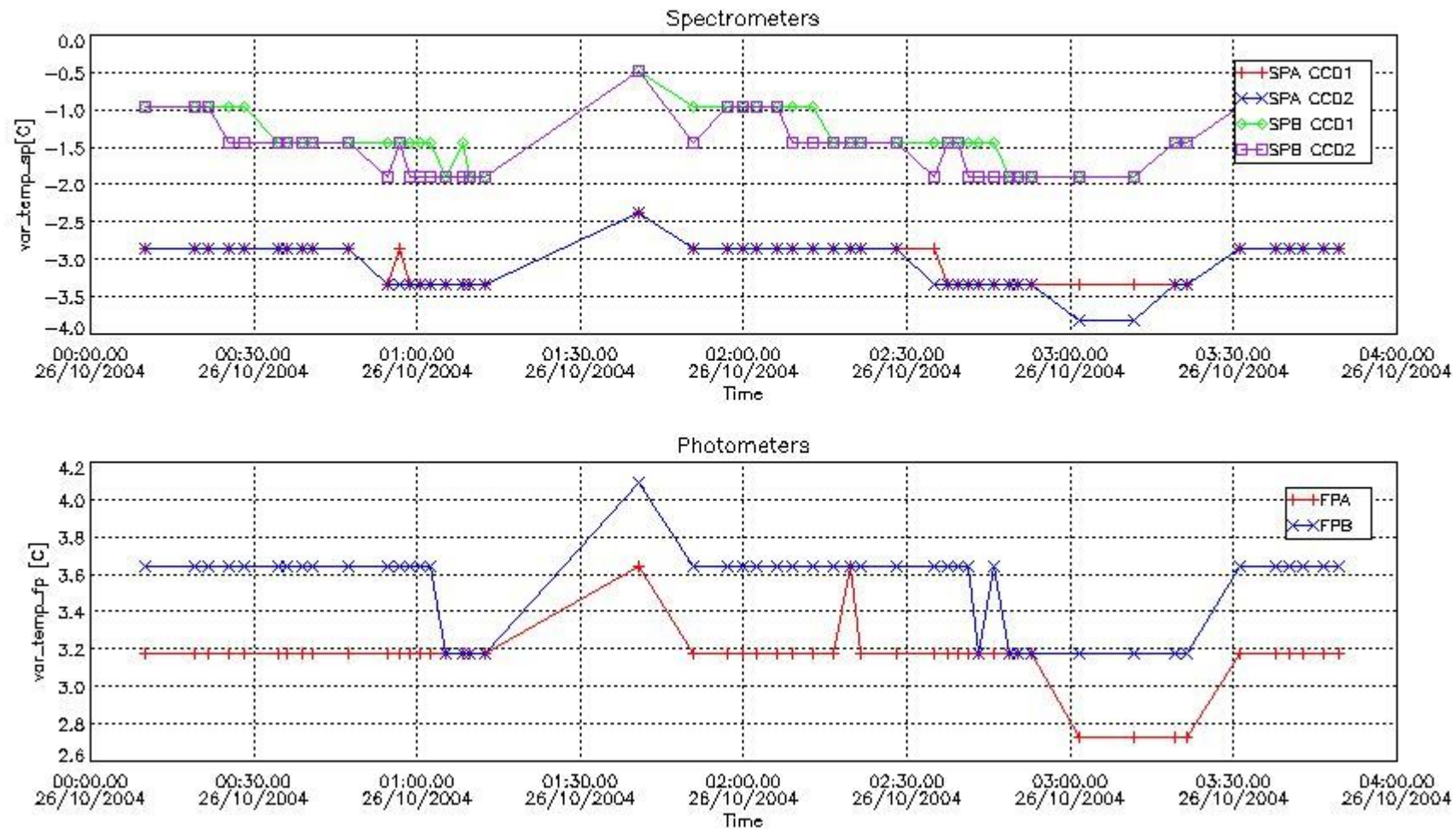
2. Summary of products arrived in PCF (Product Control Facility)

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

2.2 Summary of processed GOM_TRA_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20041026_000959_000000632031_00302_13883_0000.N1	26-OCT-2004 00:09:59	Twilight	63.000	48	30Alp Hya	1.9770	4100.0	126	13883	No
GOM_TRA_1PNPDE20041026_001903_000000552031_00302_13883_0001.N1	26-OCT-2004 00:19:03	Dark	55.000	65	Lam Vel	2.2040	4400.0	110	13883	No
GOM_TRA_1PNPDE20041026_002136_000000452031_00303_13884_0002.N1	26-OCT-2004 00:21:36	Dark	44.500	71	lot Car	2.2460	7700.0	89	13884	No
GOM_TRA_1PNPDE20041026_002524_000000752031_00303_13884_0003.N1	26-OCT-2004 00:25:24	Dark	74.500	88	31Eta CMa	2.4480	20000.	149	13884	No
GOM_TRA_1PNPDE20041026_002811_000000532031_00303_13884_0004.N1	26-OCT-2004 00:28:11	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	13884	No
GOM_TRA_1PNPDE20041026_003434_000000402031_00303_13884_0005.N1	26-OCT-2004 00:34:34	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	13884	No
GOM_TRA_1PNPDE20041026_003558_000000462031_00303_13884_0006.N1	26-OCT-2004 00:35:58	Dark	46.000	9	Alp Eri	0.45300	24000.	92	13884	No
GOM_TRA_1PNPDE20041026_003901_000000472031_00303_13884_0007.N1	26-OCT-2004 00:39:01	Dark	46.500	157	The1Eri	2.9060	9300.0	93	13884	No
GOM_TRA_1PNPDE20041026_004049_000000442031_00303_13884_0008.N1	26-OCT-2004 00:40:49	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	13884	No
GOM_TRA_1PNPDE20041026_004722_000000452031_00303_13884_0009.N1	26-OCT-2004 00:47:22	Bright	45.000	52	16Bet Cet	2.0370	4500.0	90	13884	No
GOM_TRA_1PNPDE20041026_005432_000000632031_00303_13884_0010.N1	26-OCT-2004 00:54:32	Bright	62.500	94	92Alp Cet	2.5260	3100.0	125	13884	No
GOM_TRA_1PNPDE20041026_005651_000000372031_00303_13884_0011.N1	26-OCT-2004 00:56:51	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	13884	No
GOM_TRA_1PNPDE20041026_005842_000000422031_00303_13884_0012.N1	26-OCT-2004 00:58:42	Bright	41.500	105	6Bet Ari	2.6450	8900.0	83	13884	No
GOM_TRA_1PNPDE20041026_010041_000000412031_00303_13884_0013.N1	26-OCT-2004 01:00:41	Bright	40.500	58	21Alp And	2.0730	11000.	81	13884	No
GOM_TRA_1PNPDE20041026_010232_000000422031_00303_13884_0014.N1	26-OCT-2004 01:02:32	Bright	42.000	53	43Bet And	2.0480	3300.0	84	13884	No
GOM_TRA_1PNPDE20041026_010520_000000442031_00303_13884_0015.N1	26-OCT-2004 01:05:20	Bright	44.000	73	57Gam1And	2.2600	13100.	88	13884	No
GOM_TRA_1PNPDE20041026_010820_000000362031_00303_13884_0016.N1	26-OCT-2004 01:08:20	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	13884	No
GOM_TRA_1PNPDE20041026_010936_000000382031_00303_13884_0017.N1	26-OCT-2004 01:09:36	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	13884	No
GOM_TRA_1PNPDE20041026_011223_000000402031_00303_13884_0018.N1	26-OCT-2004 01:12:23	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	13884	No
GOM_TRA_1PNPDE20041026_014048_000002402031_00303_13884_0000.N1	26-OCT-2004 01:40:48	Twilight	239.50	17	78Bet Gem	1.1610	4500.0	479	13884	Yes
GOM_TRA_1PNPDE20041026_015036_000000632031_00303_13884_0001.N1	26-OCT-2004 01:50:36	Twilight	63.000	48	30Alp Hya	1.9770	4100.0	126	13884	No
GOM_TRA_1PNPDE20041026_015706_000000412031_00303_13884_0002.N1	26-OCT-2004 01:57:06	Dark	41.000	99	Del Cen	2.5750	26000.	82	13884	No
GOM_TRA_1PNPDE20041026_015941_000000512031_00303_13884_0003.N1	26-OCT-2004 01:59:41	Dark	51.000	65	Lam Vel	2.2040	4400.0	102	13884	No
GOM_TRA_1PNPDE20041026_020212_000000422031_00304_13885_0004.N1	26-OCT-2004 02:02:12	Dark	41.500	71	lot Car	2.2460	7700.0	83	13885	No
GOM_TRA_1PNPDE20041026_020601_000000732031_00304_13885_0005.N1	26-OCT-2004 02:06:01	Dark	72.500	88	31Eta CMa	2.4480	20000.	145	13885	No
GOM_TRA_1PNPDE20041026_020847_000000552031_00304_13885_0006.N1	26-OCT-2004 02:08:47	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	13885	No
GOM_TRA_1PNPDE20041026_021243_000000752031_00304_13885_0007.N1	26-OCT-2004 02:12:43	Dark	74.500	177	1Zet CMa	3.0220	26000.	149	13885	No
GOM_TRA_1PNPDE20041026_021633_000000472031_00304_13885_0008.N1	26-OCT-2004 02:16:33	Dark	47.000	9	Alp Eri	0.45300	24000.	94	13885	No
GOM_TRA_1PNPDE20041026_021937_000000482031_00304_13885_0009.N1	26-OCT-2004 02:19:37	Dark	47.500	157	The1Eri	2.9060	9300.0	95	13885	No
GOM_TRA_1PNPDE20041026_022125_000000472031_00304_13885_0010.N1	26-OCT-2004 02:21:25	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	13885	No
GOM_TRA_1PNPDE20041026_022758_000000452031_00304_13885_0011.N1	26-OCT-2004 02:27:58	Bright	45.000	52	16Bet Cet	2.0370	4500.0	90	13885	No
GOM_TRA_1PNPDE20041026_023507_000000632031_00304_13885_0012.N1	26-OCT-2004 02:35:07	Bright	63.000	94	92Alp Cet	2.5260	3100.0	126	13885	No
GOM_TRA_1PNPDE20041026_023726_000000382031_00304_13885_0013.N1	26-OCT-2004 02:37:26	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	13885	No
GOM_TRA_1PNPDE20041026_023918_000000432031_00304_13885_0014.N1	26-OCT-2004 02:39:18	Bright	42.500	105	6Bet Ari	2.6450	8900.0	85	13885	No
GOM_TRA_1PNPDE20041026_024117_000000402031_00304_13885_0015.N1	26-OCT-2004 02:41:17	Bright	40.000	58	21Alp And	2.0730	11000.	80	13885	No
GOM_TRA_1PNPDE20041026_024309_000000422031_00304_13885_0016.N1	26-OCT-2004 02:43:09	Bright	41.500	53	43Bet And	2.0480	3300.0	83	13885	No
GOM_TRA_1PNPDE20041026_024556_000000432031_00304_13885_0017.N1	26-OCT-2004 02:45:56	Bright	43.000	73	57Gam1And	2.2600	13100.	86	13885	No
GOM_TRA_1PNPDE20041026_024856_000000392031_00304_13885_0018.N1	26-OCT-2004 02:48:56	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	13885	No
GOM_TRA_1PNPDE20041026_025012_000000382031_00304_13885_0019.N1	26-OCT-2004 02:50:12	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	13885	No
GOM_TRA_1PNPDE20041026_025300_000000402031_00304_13885_0020.N1	26-OCT-2004 02:53:00	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	13885	No
GOM_TRA_1PNPDE20041026_030146_000000392031_00304_13885_0000.N1	26-OCT-2004 03:01:46	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	13885	No
GOM_TRA_1PNPDE20041026_031135_000000392031_00304_13885_0001.N1	26-OCT-2004 03:11:35	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	13885	No
GOM_TRA_1PNPDE20041026_031907_000000532031_00304_13885_0002.N1	26-OCT-2004 03:19:07	Bright	53.000	166	17Eps Leo	2.9800	6000.0	106	13885	No
GOM_TRA_1PNPDE20041026_032125_000002522031_00304_13885_0003.N1	26-OCT-2004 03:21:25	Twilight	251.50	17	78Bet Gem	1.1610	4500.0	503	13885	No
GOM_TRA_1PNPDE20041026_033112_000000652031_00304_13885_0004.N1	26-OCT-2004 03:31:12	Twilight	65.000	48	30Alp Hya	1.9770	4100.0	130	13885	No
GOM_TRA_1PNPDE20041026_033743_000000402031_00304_13885_0005.N1	26-OCT-2004 03:37:43	Dark	40.000	99	Del Cen	2.5750	26000.	80	13885	No
GOM_TRA_1PNPDE20041026_034019_000000582031_00304_13885_0006.N1	26-OCT-2004 03:40:19	Dark	58.000	65	Lam Vel	2.2040	4400.0	116	13885	No
GOM_TRA_1PNPDE20041026_034249_000000422031_00305_13886_0007.N1	26-OCT-2004 03:42:49	Dark	41.500	71	lot Car	2.2460	7700.0	83	13886	No
GOM_TRA_1PNPDE20041026_034639_000000732031_00305_13886_0008.N1	26-OCT-2004 03:46:39	Dark	73.000	88	31Eta CMa	2.4480	20000.	146	13886	No

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



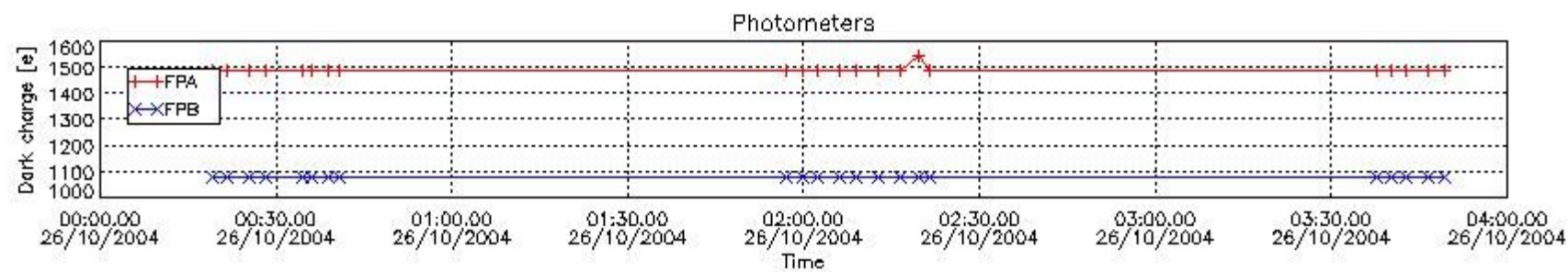
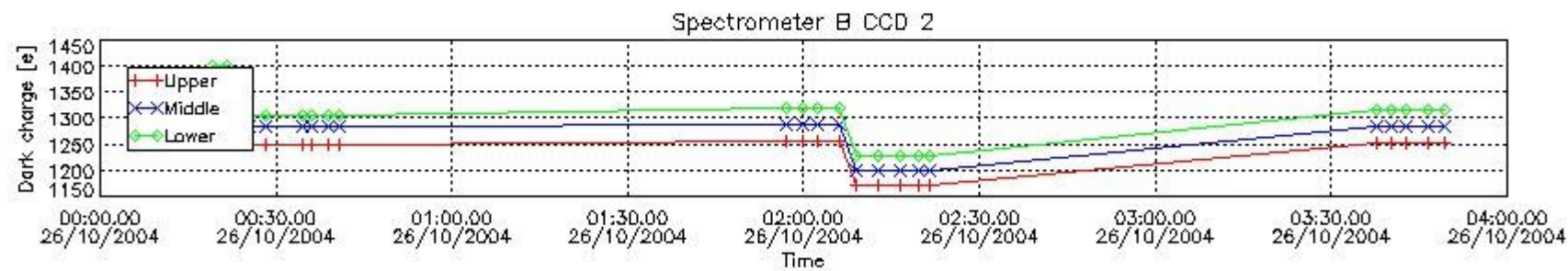
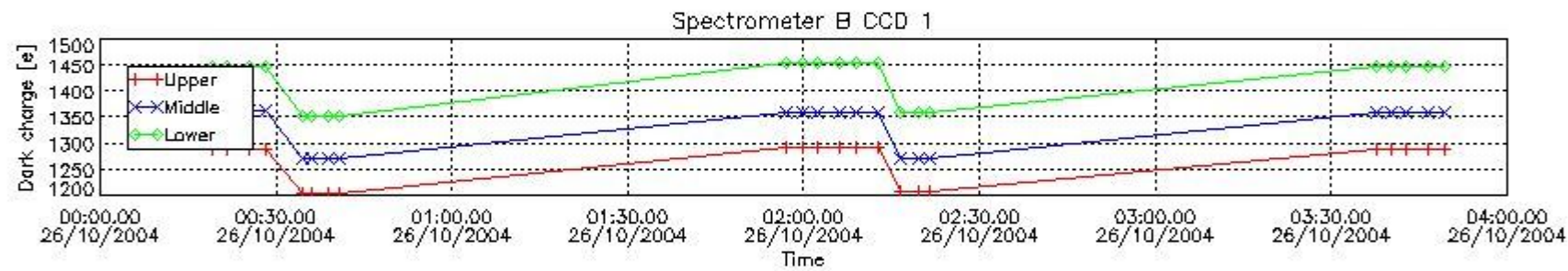
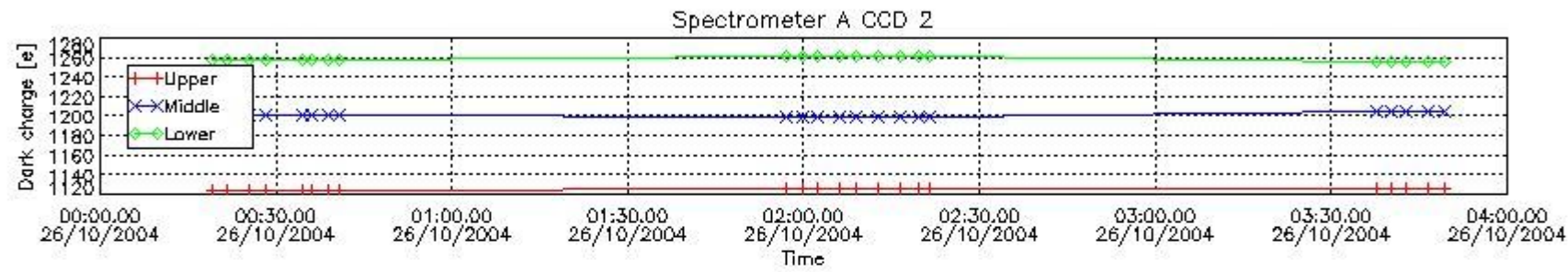
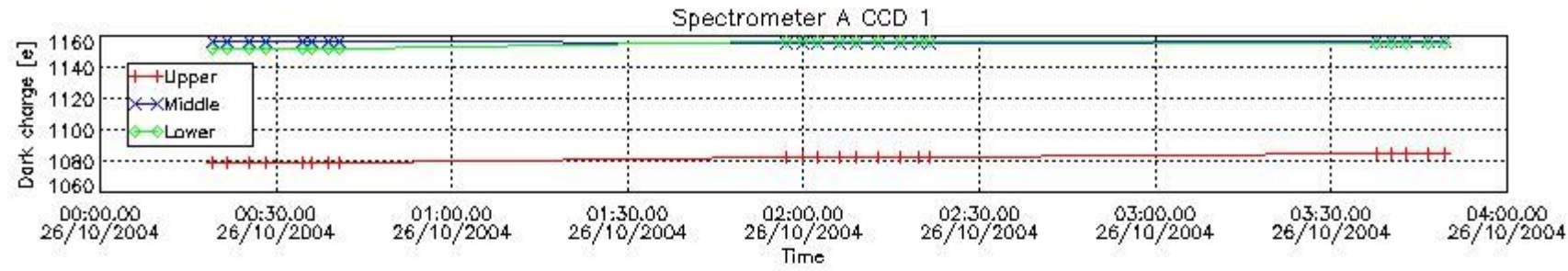
4. Overview of dark signal processing per product

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



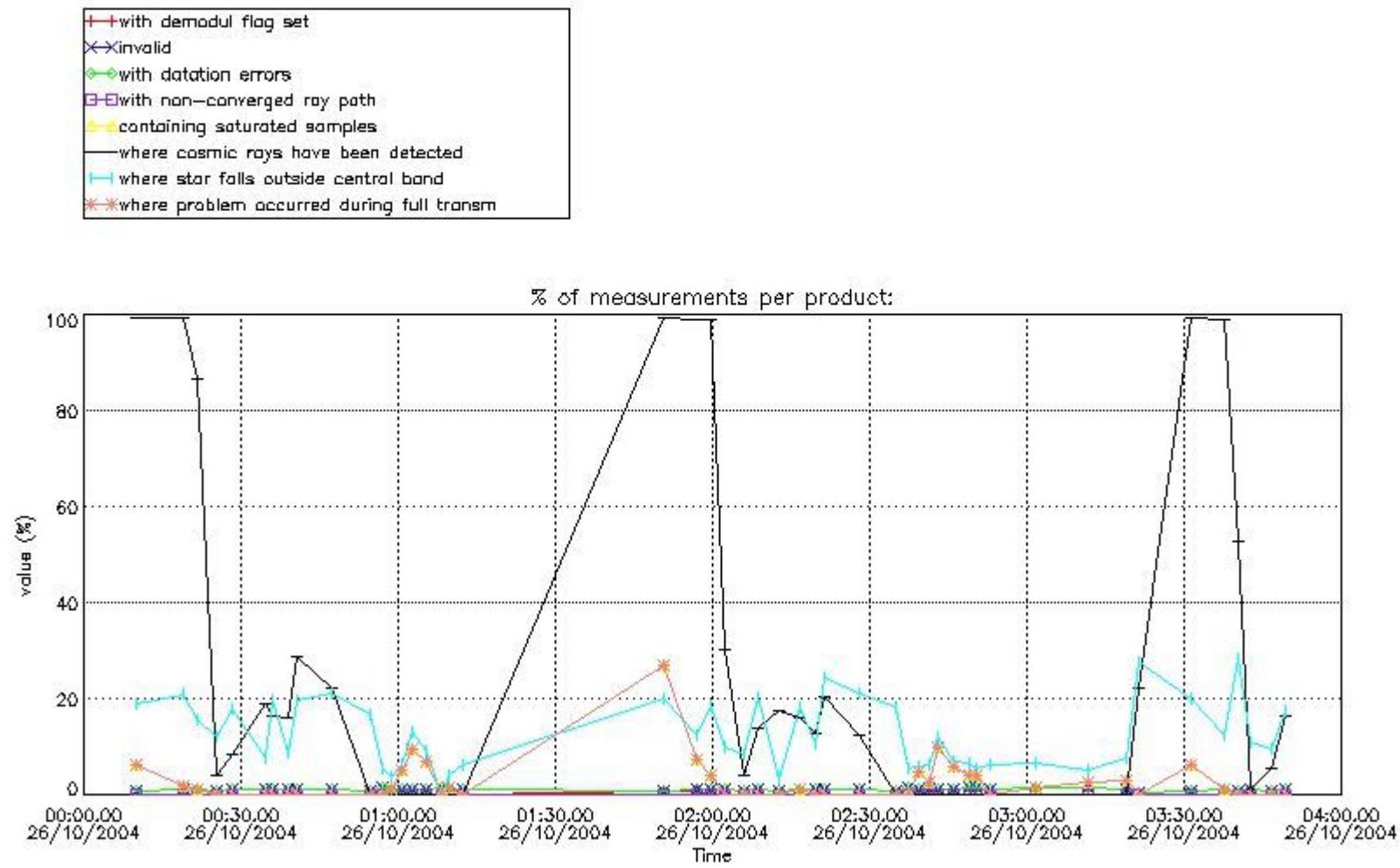
5. Demodulation flag and quality information monitoring

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.

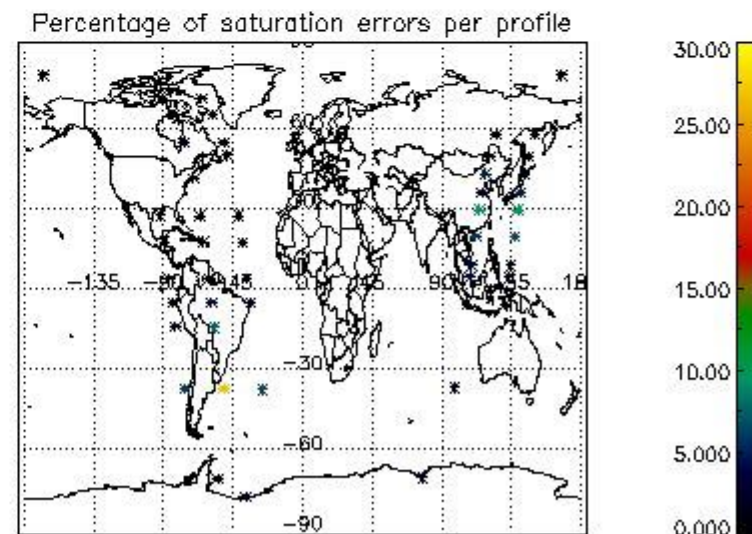
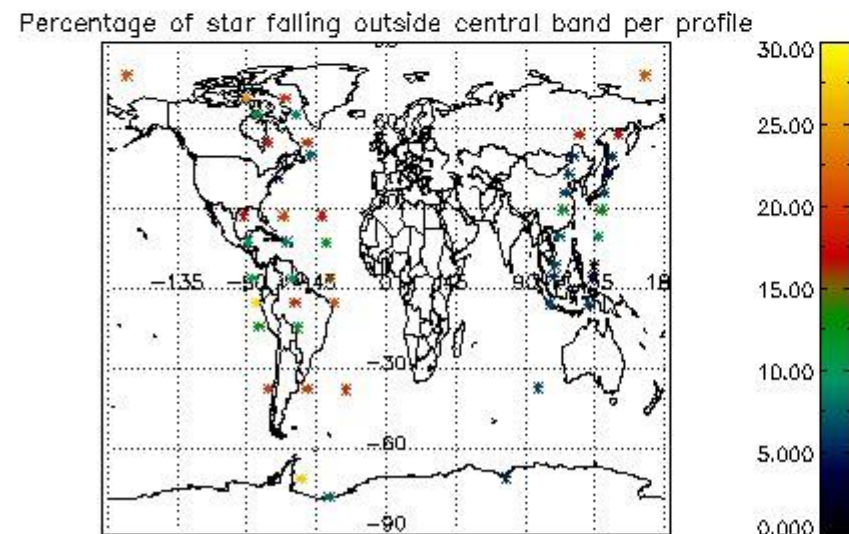
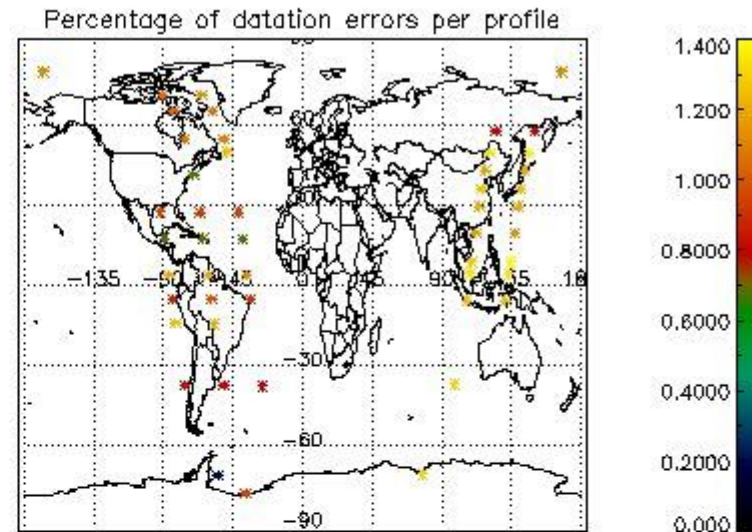
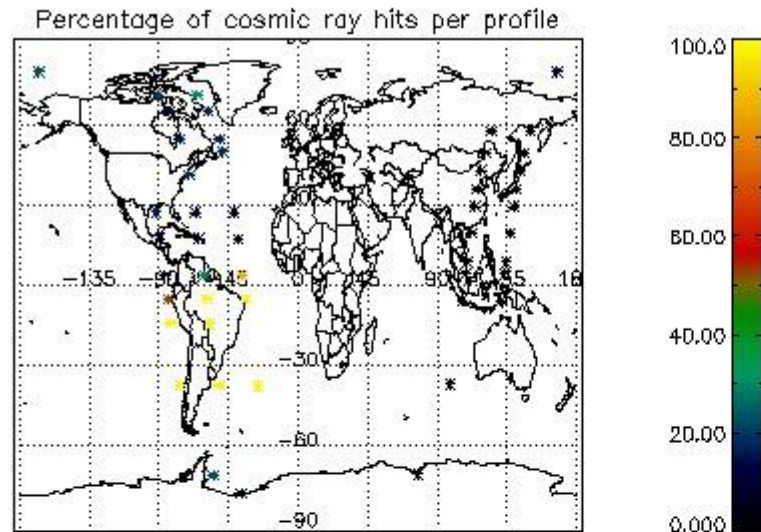
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.3673 %
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)



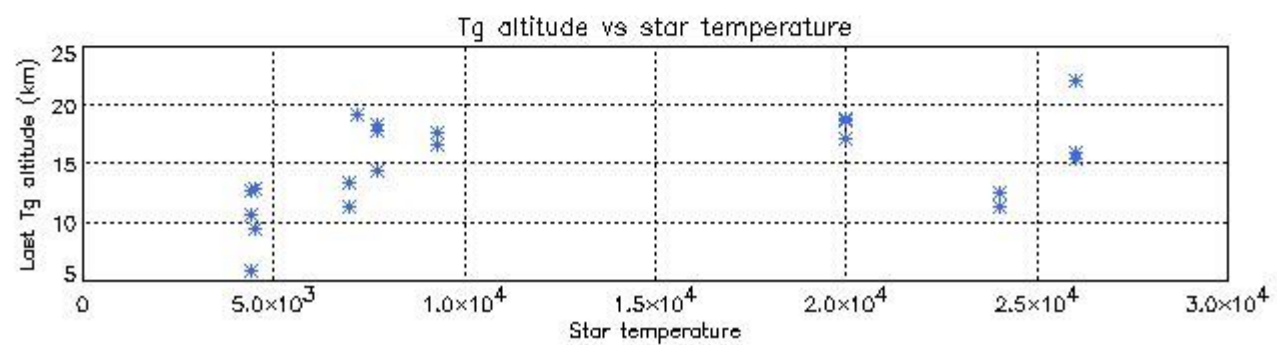
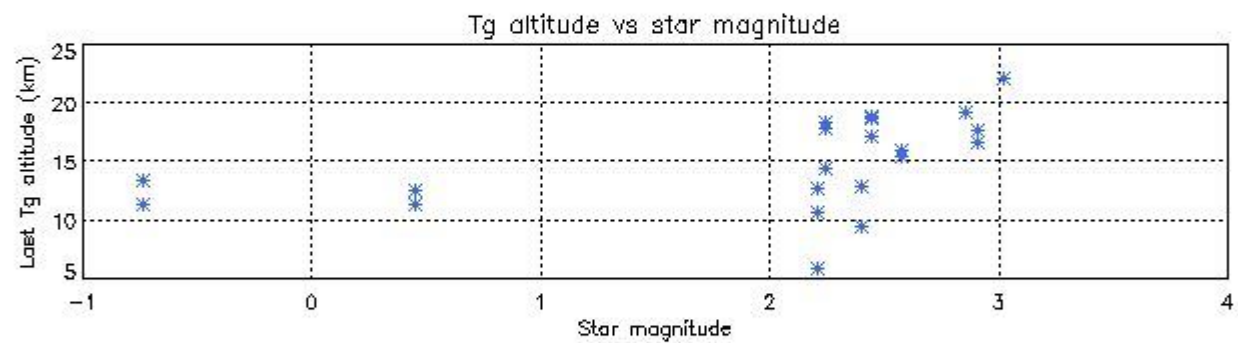
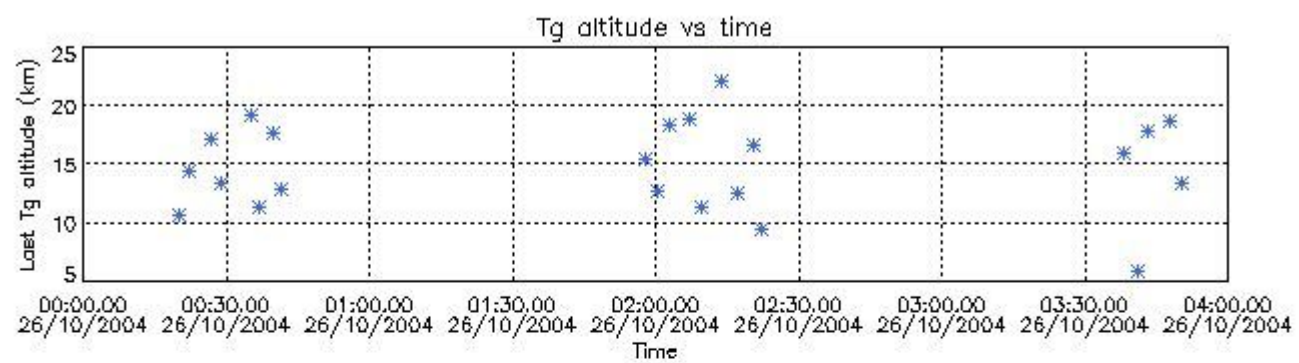
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.824	19.045	11.750
St. deviation:	3.8636	4.2301	0.68216
Maximum:	22.173	27.138	12.494
Minimum:	5.8864	10.503	11.037
Number of data:	22.000	23.000	4.0000

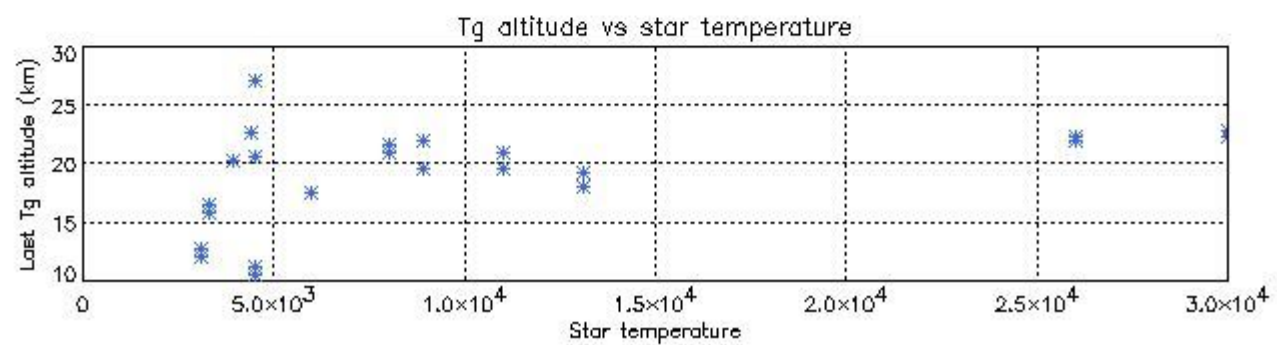
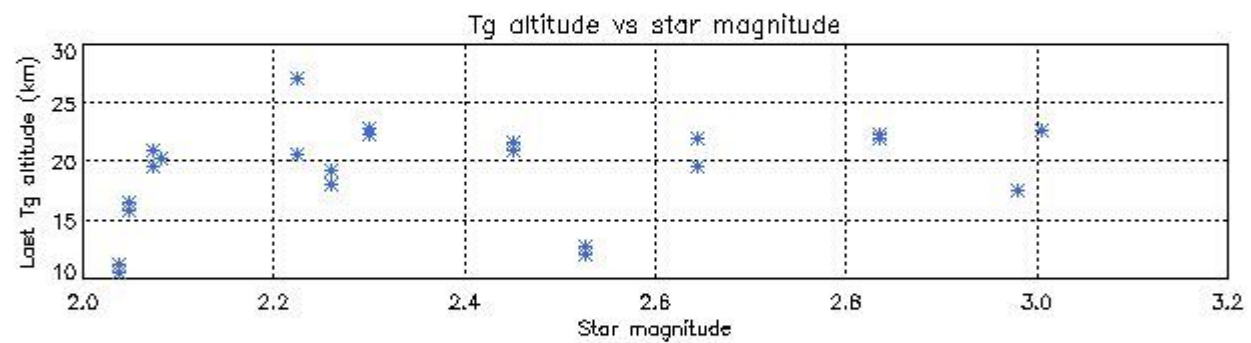
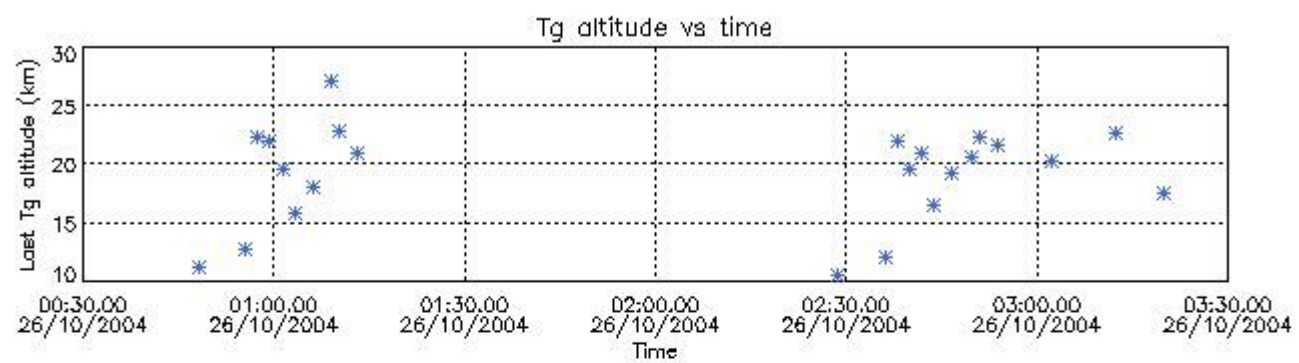
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



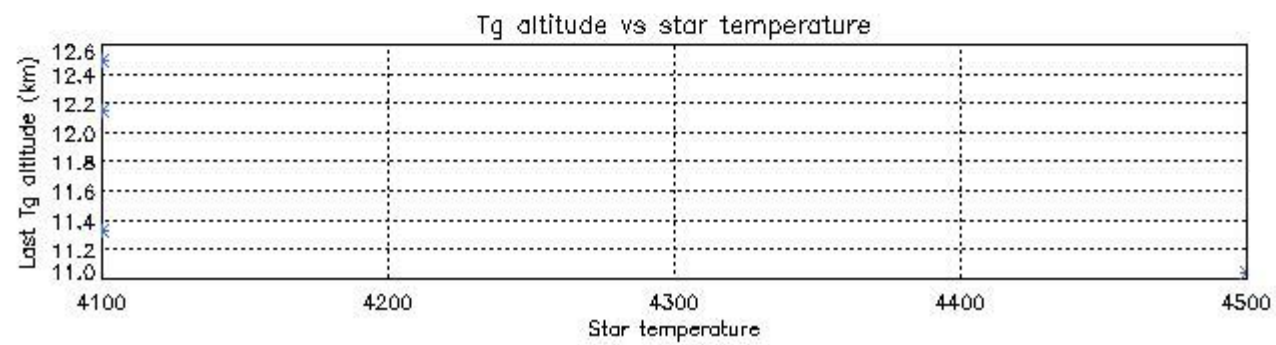
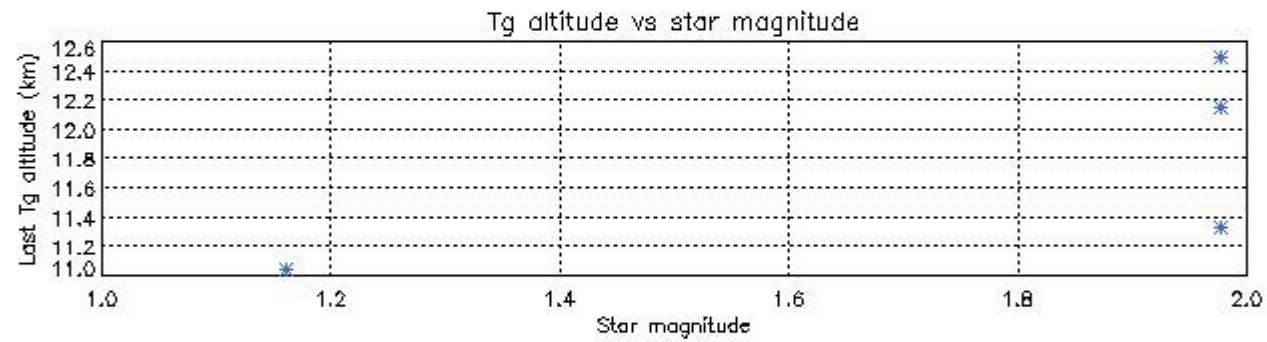
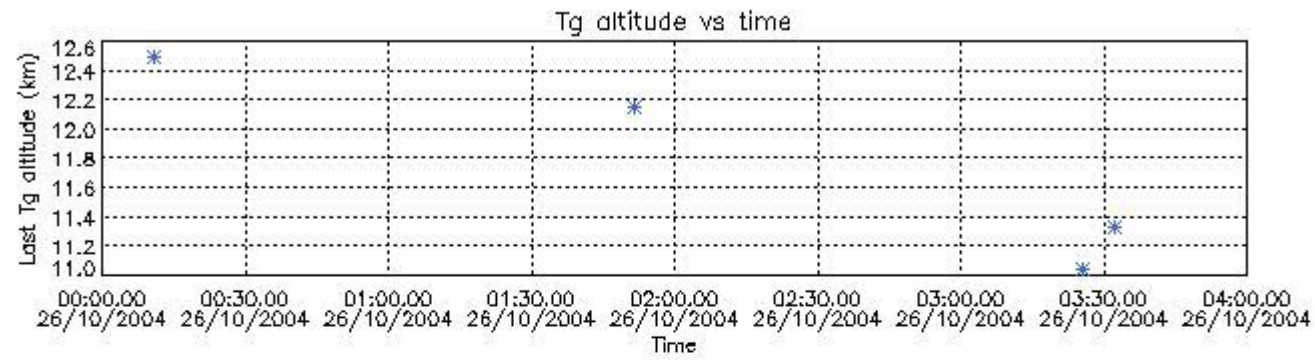
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

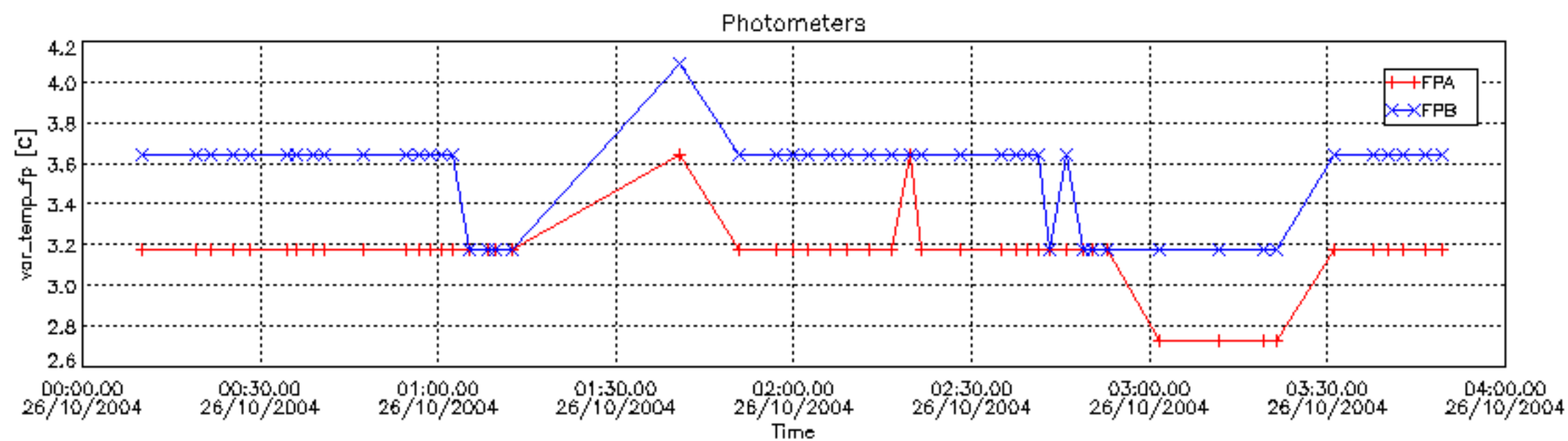
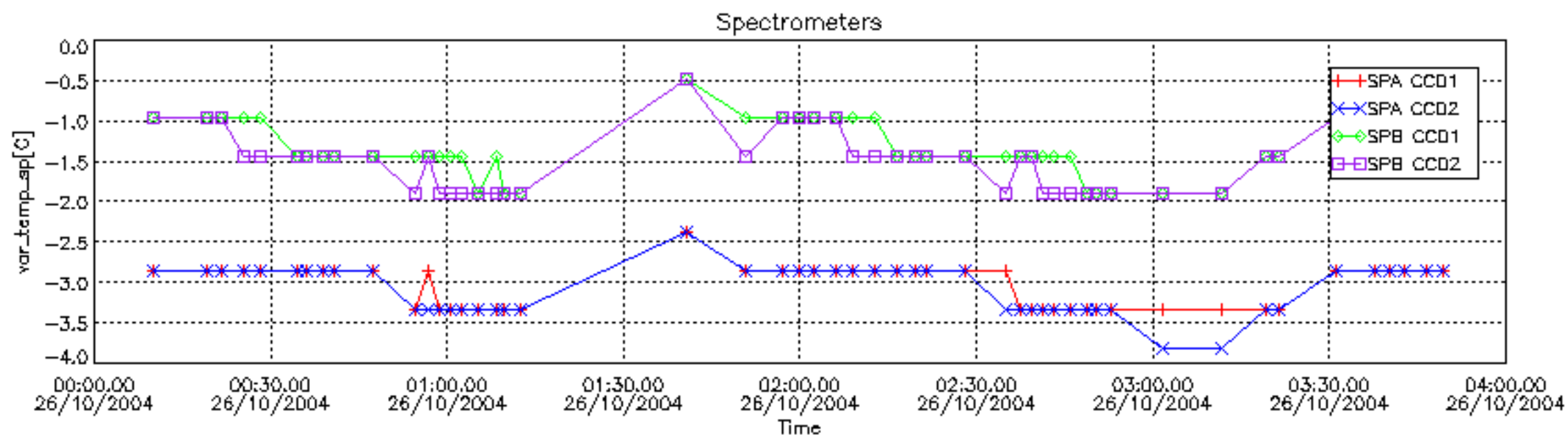
Tangent altitude at which the star is lost

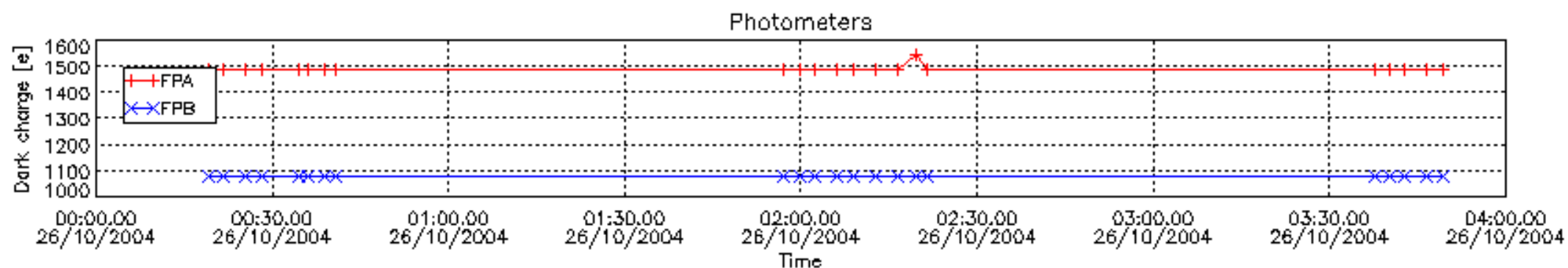
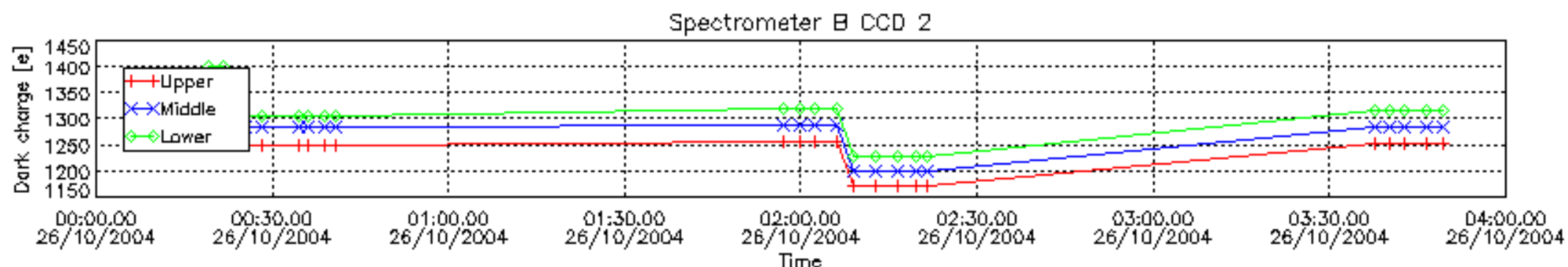
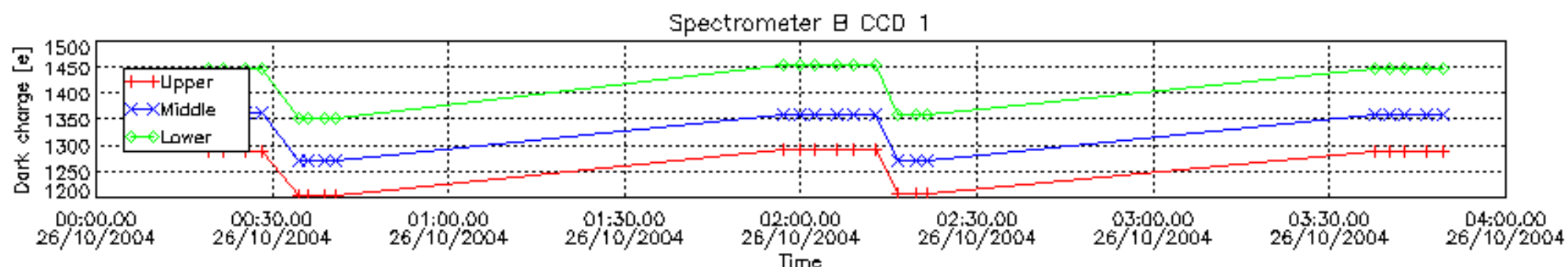
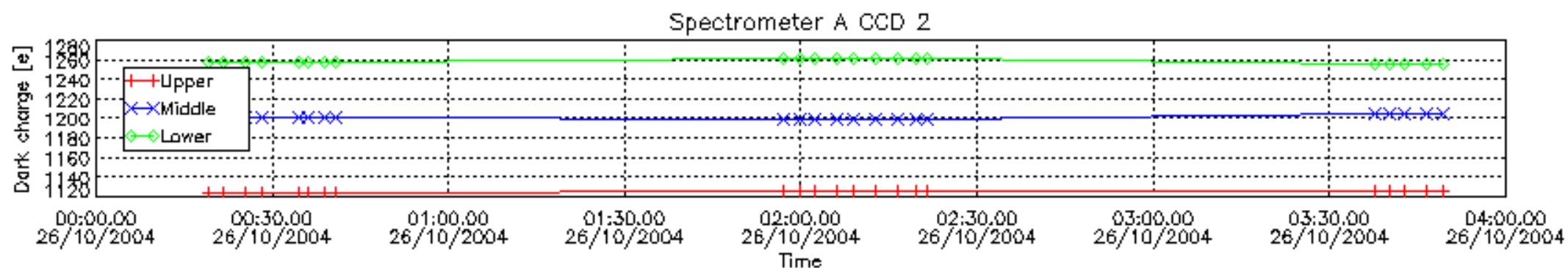
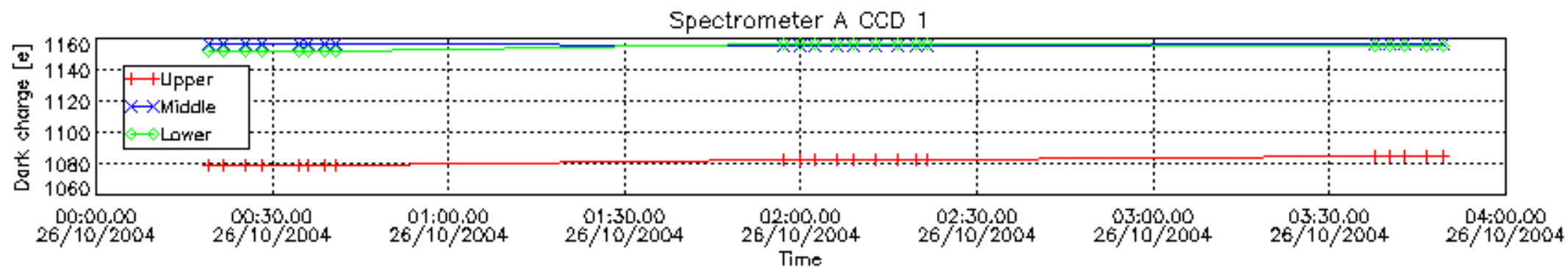


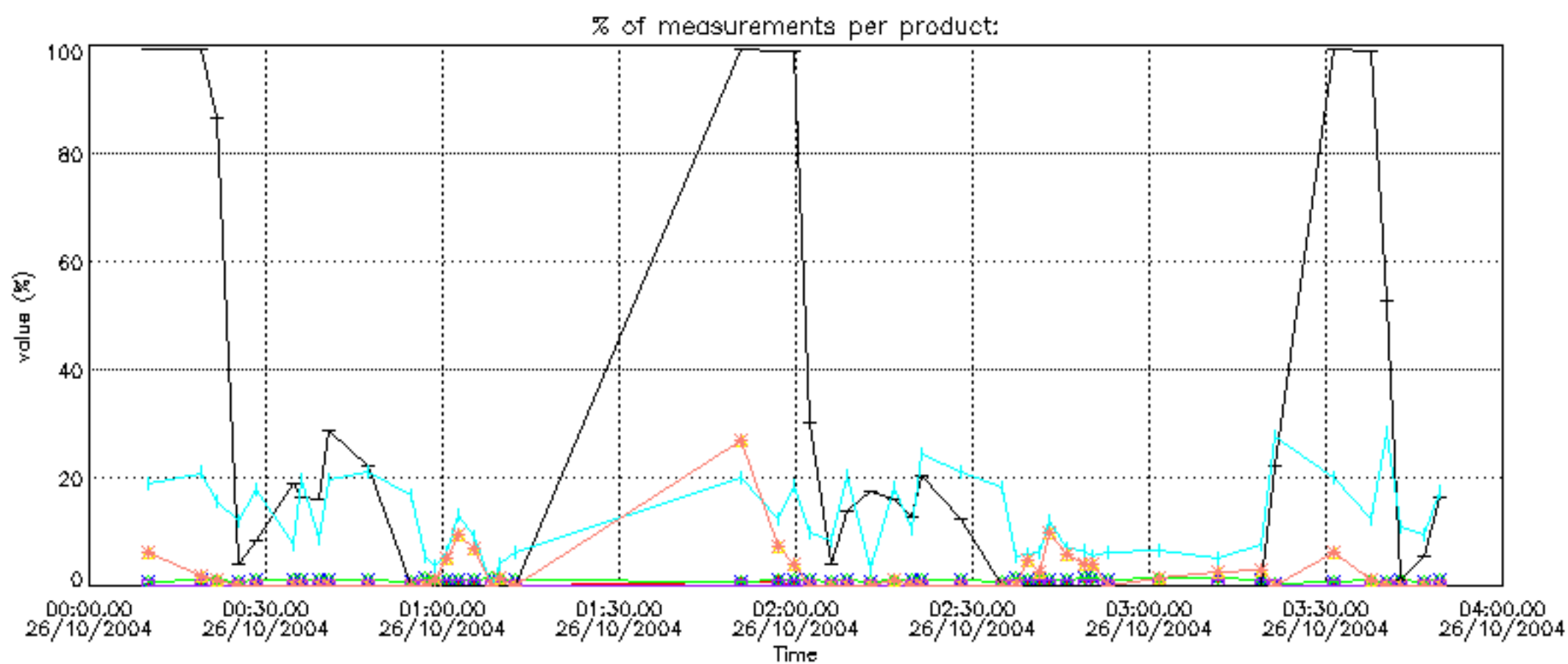
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

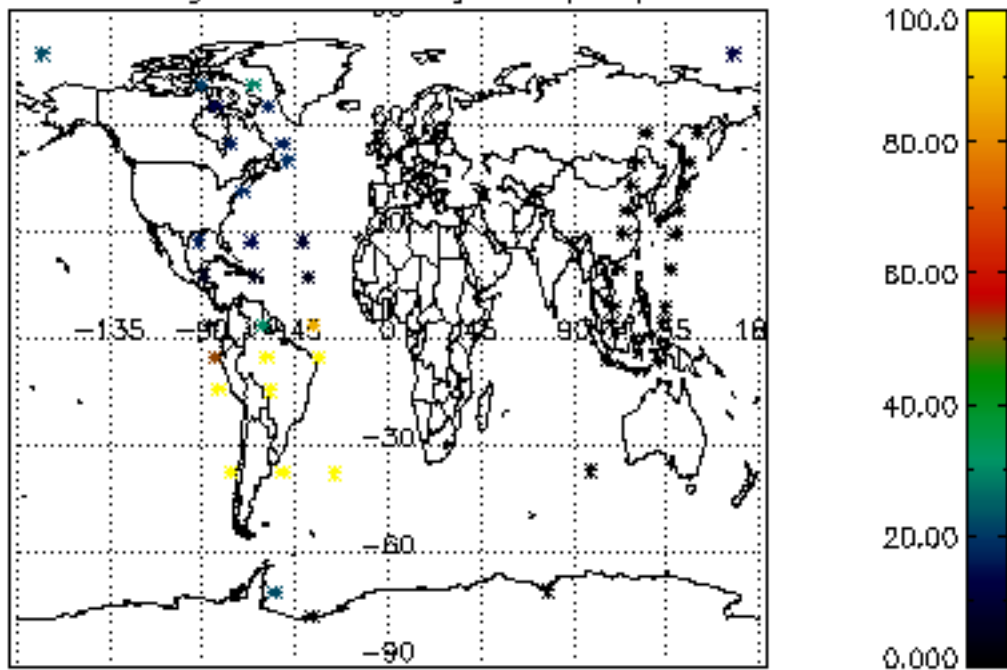
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.3	1447.1	1461.2	1446.9
St. deviation:	5.6778	6.6299	6.5905	7.4010
Maximum:	1809.0	1544.0	1511.0	1496.0
Minimum:	1459.0	1428.0	1441.0	1416.0
Number of data:	30150.	30150.	26300.	26300.



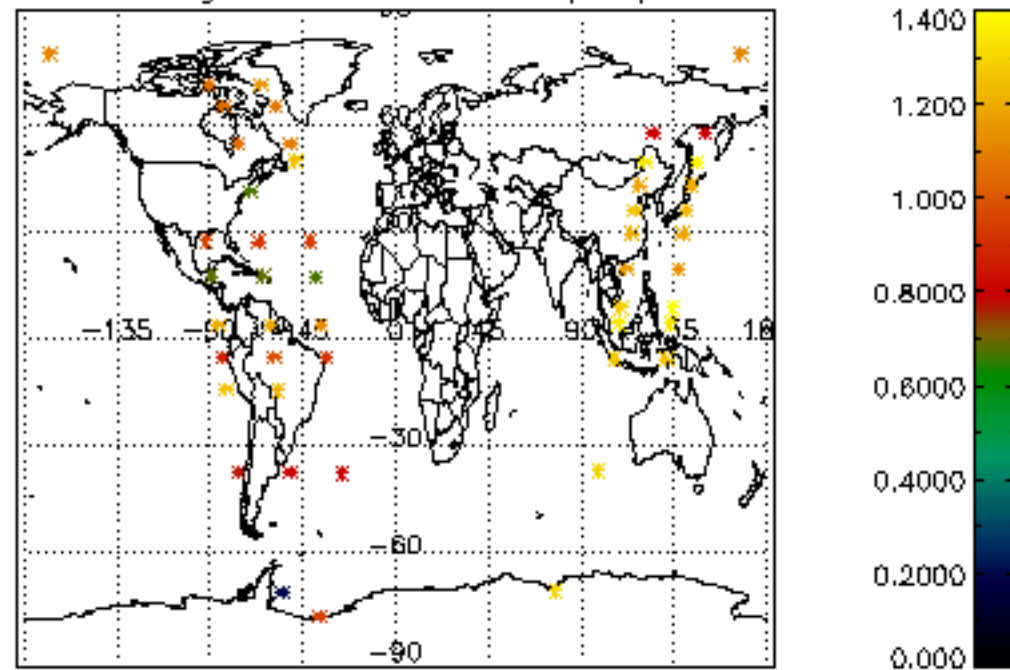




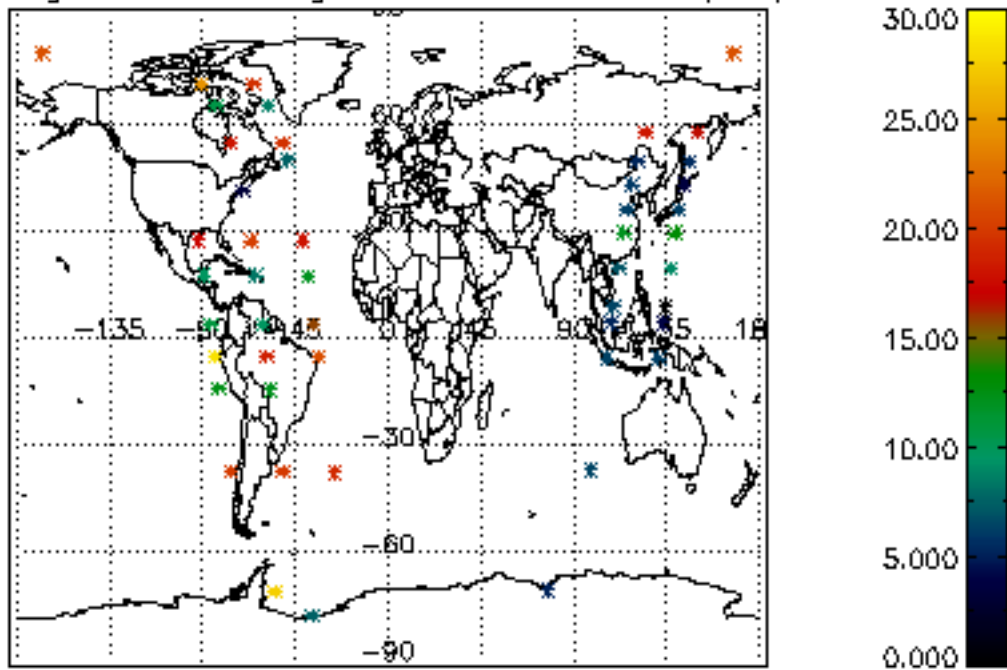
Percentage of cosmic ray hits per profile



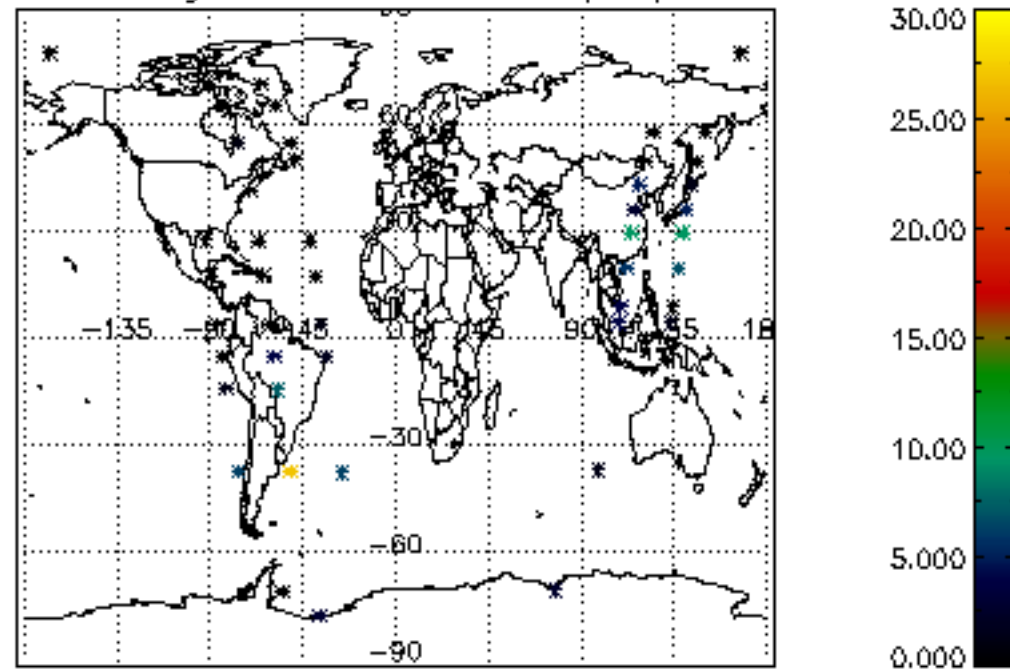
Percentage of datation errors per profile



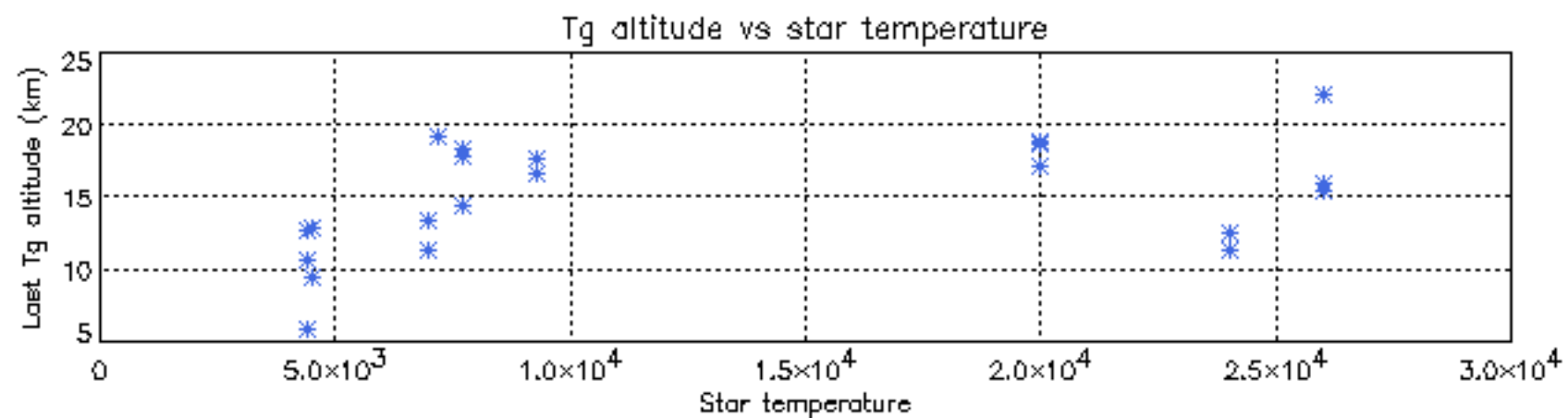
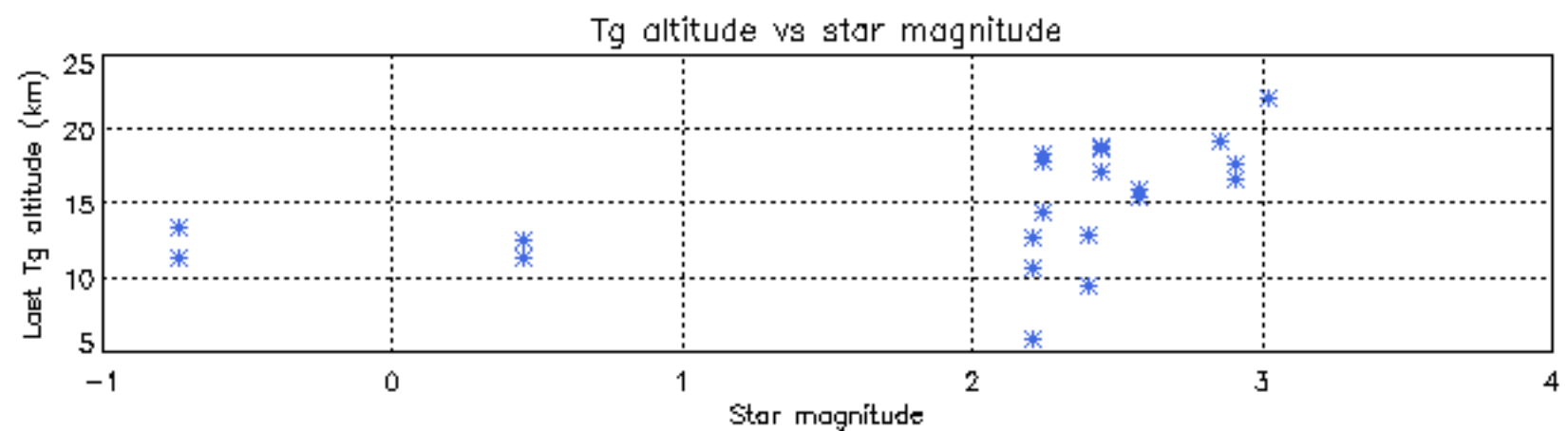
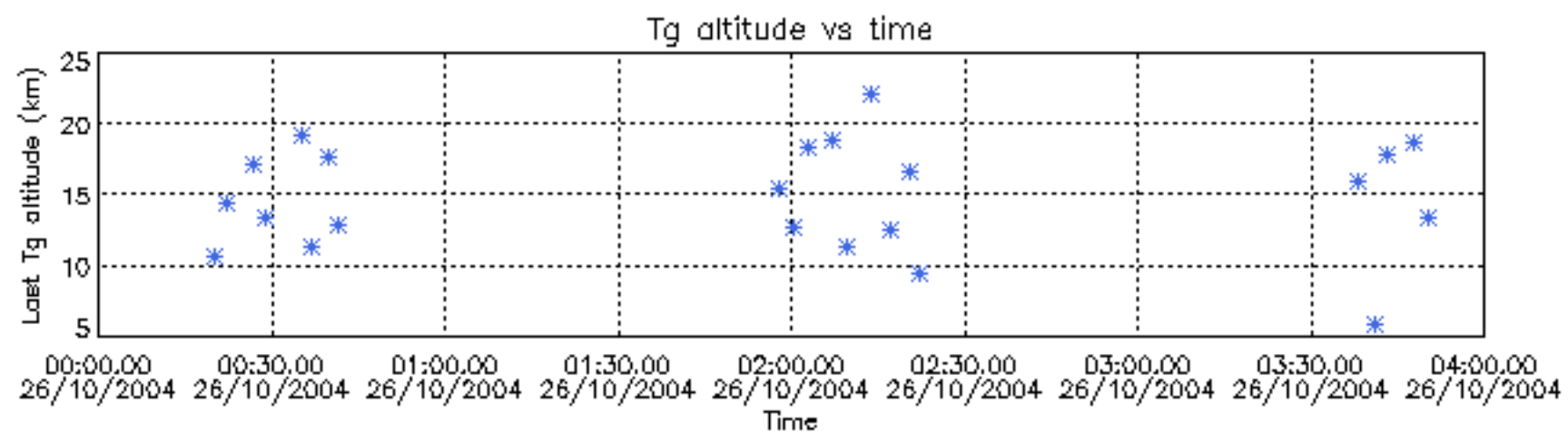
Percentage of star falling outside central band per profile



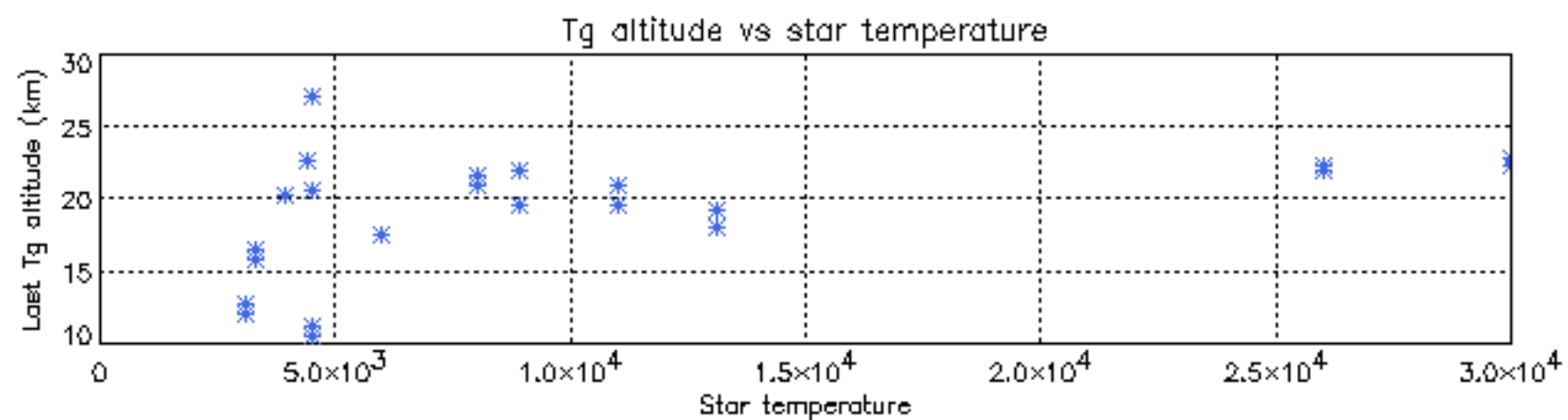
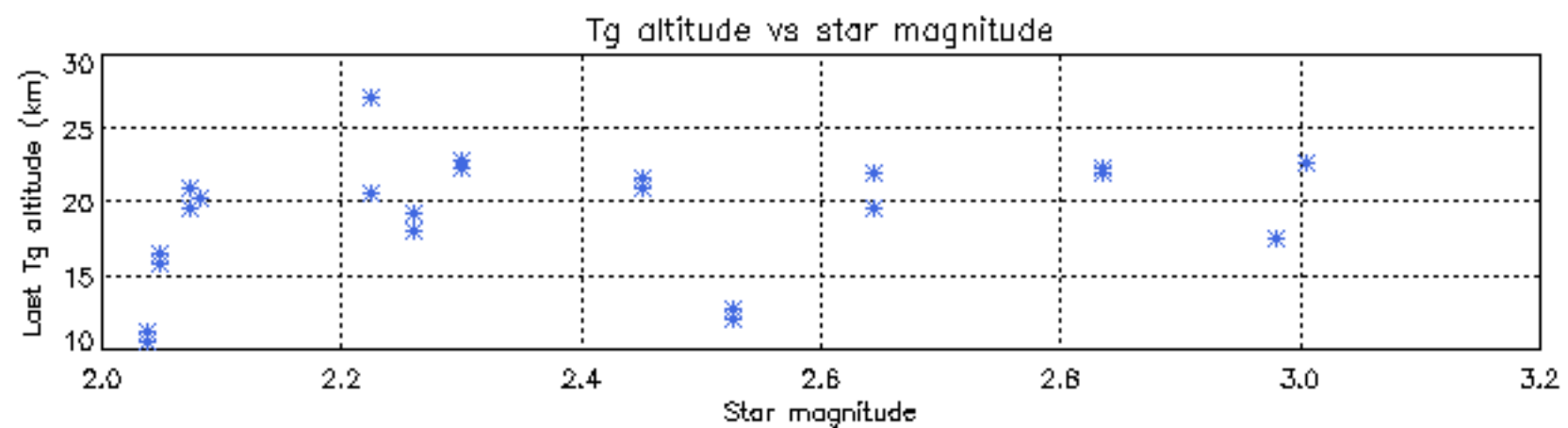
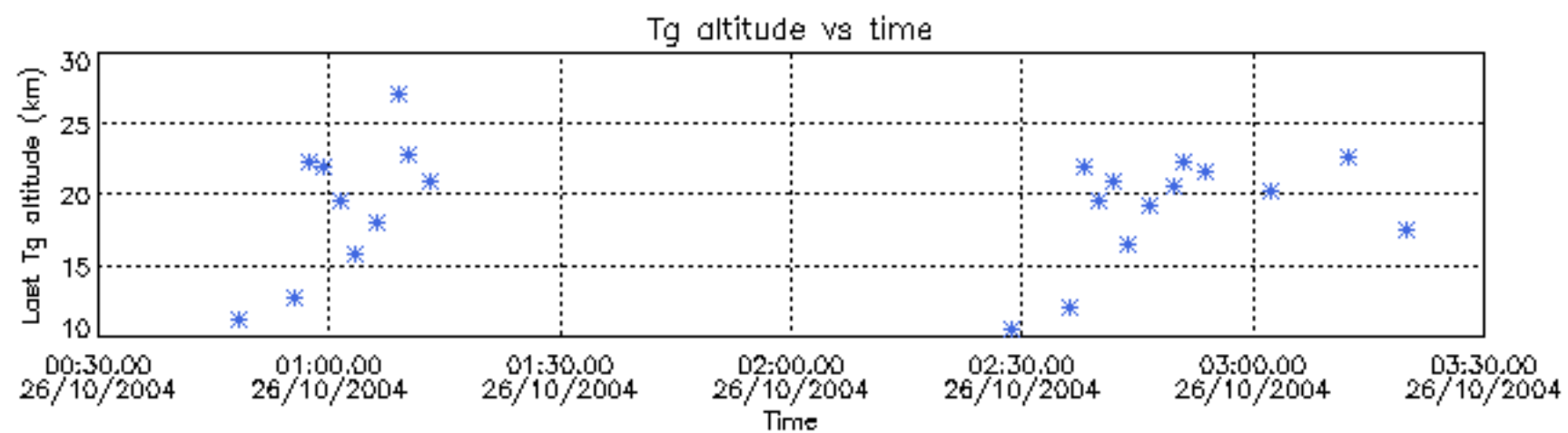
Percentage of saturation errors per profile



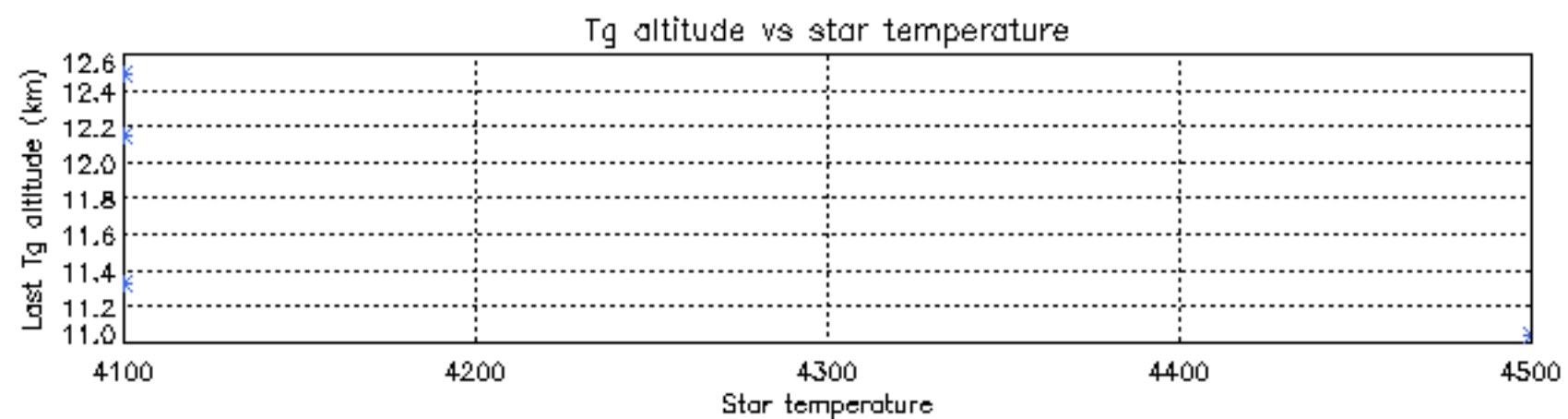
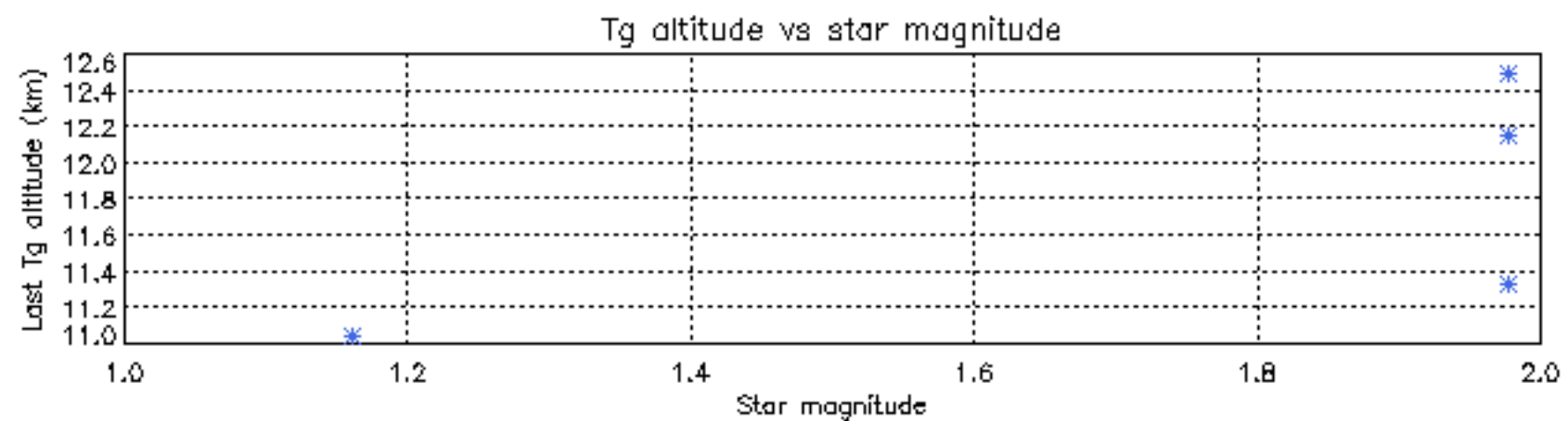
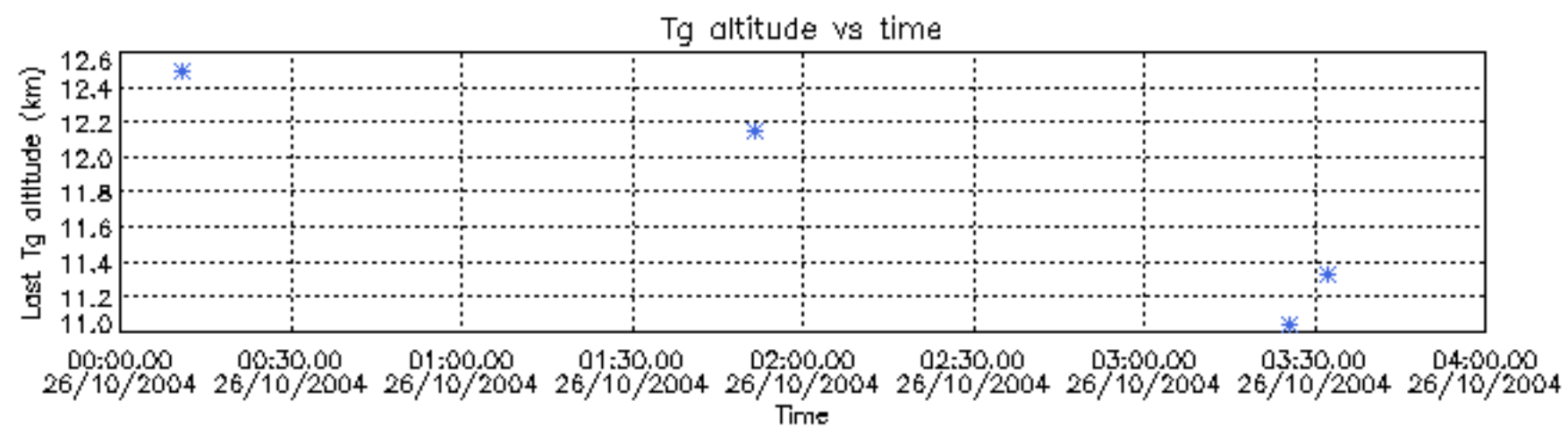
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041001_013221_000043242030_00446_13526_0792.N1

1; -862.4; 01-OCT-2004 01:32:21; Dark ; 72.5; 8; 10Alp CMi ; 0.40; 6500;occ; 145; 12;13526
 2; -448.3; 01-OCT-2004 01:39:15; Dark ; 54.0; 132; 15Rho Pup ; 2.80; 6900;occ; 108; 0;13526
 3; -295.0; 01-OCT-2004 01:41:49; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;13526
 4; -140.4; 01-OCT-2004 01:44:23; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;13526
 5; -37.9; 01-OCT-2004 01:46:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13526
 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
 13; 1420.2; 01-OCT-2004 02:10:24; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;13527
 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
 21; 3027.7; 01-OCT-2004 02:37:11; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;13527
 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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 2; -2134.3; 01-OCT-2004 02:51:45; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13527
 3; -2042.4; 01-OCT-2004 02:53:17; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;13527
 4; -1848.6; 01-OCT-2004 02:56:31; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13527
 5; -1704.1; 01-OCT-2004 02:58:55; Bright; 94.0; 107; 37The Aur ; 2.65; 11000;occ; 188; 0;13527
 6; -1523.1; 01-OCT-2004 03:01:56; Bright; 59.5; 24; 66Alp Gem ; 1.58; 10200;occ; 119; 0;13527
 7; -1234.3; 01-OCT-2004 03:06:45; Dark ; 107.5; 170; 27Eps Gem ; 3.00; 9700;occ; 215; 0;13527
 8; -867.5; 01-OCT-2004 03:12:52; Dark ; 86.0; 8; 10Alp CMi ; 0.40; 6500;occ; 172; 0;13527
 9; -447.3; 01-OCT-2004 03:19:52; Dark ; 52.0; 132; 15Rho Pup ; 2.80; 6900;occ; 104; 0;13527
 10; -293.8; 01-OCT-2004 03:22:26; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;13527
 11; -139.8; 01-OCT-2004 03:25:00; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;13527
 12; -37.1; 01-OCT-2004 03:26:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13527
 13; 172.8; 01-OCT-2004 03:30:12; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;13528
 14; 312.1; 01-OCT-2004 03:32:32; Dark ; 62.5; 108; Alp Col ; 2.65; 15200;occ; 125; 0;13528
 15; 603.4; 01-OCT-2004 03:37:23; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13528
 16; 732.7; 01-OCT-2004 03:39:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13528
 17; 820.0; 01-OCT-2004 03:41:00; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13528
 18; 918.0; 01-OCT-2004 03:42:37; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;13528
 19; 1141.4; 01-OCT-2004 03:46:21; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13528
 20; 1419.9; 01-OCT-2004 03:50:59; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;13528
 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
 24; 2384.5; 01-OCT-2004 04:07:04; Bright; 36.5; 93; 53Bet Peg ; 2.52; 3100;occ; 73; 0;13528
 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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1; -2132.4; 01-OCT-2004 04:32:23; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;13528
 2; -2042.3; 01-OCT-2004 04:33:53; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;13528
 3; -1848.5; 01-OCT-2004 04:37:07; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13528
 4; -1705.0; 01-OCT-2004 04:39:31; Bright; 90.5; 107; 37The Aur ; 2.65; 11000;occ; 181; 0;13528
 5; -1523.7; 01-OCT-2004 04:42:32; Bright; 59.0; 24; 66Alp Gem ; 1.58; 10200;occ; 118; 0;13528
 6; -1233.6; 01-OCT-2004 04:47:22; Dark ; 109.0; 170; 27Eps Gem ; 3.00; 9700;occ; 218; 0;13528
 7; -866.3; 01-OCT-2004 04:53:29; Dark ; 76.5; 8; 10Alp CMi ; 0.40; 6500;occ; 153; 0;13528
 8; -446.4; 01-OCT-2004 05:00:29; Dark ; 51.0; 132; 15Rho Pup ; 2.80; 6900;occ; 102; 0;13528
 9; -293.5; 01-OCT-2004 05:03:02; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;13528
 10; -137.5; 01-OCT-2004 05:05:38; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;13528
 11; -36.4; 01-OCT-2004 05:07:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13528


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13; 314.2; 01-OCT-2004 05:13:10; Dark ; 64.5; 108; Alp Col ; 2.65; 15200;occ; 129; 0;13529
14; 603.4; 01-OCT-2004 05:17:59; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13529
15; 733.3; 01-OCT-2004 05:20:09; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13529
16; 820.4; 01-OCT-2004 05:21:36; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;13529
17; 918.1; 01-OCT-2004 05:23:14; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13529
18; 1141.7; 01-OCT-2004 05:26:57; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;13529
19; 1420.1; 01-OCT-2004 05:31:36; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;13529
20; 1556.3; 01-OCT-2004 05:33:52; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;13529
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
24; 2519.0; 01-OCT-2004 05:49:55; Bright; 66.0; 105; 6Bet Ari ; 2.64; 8900;occ; 132; 0;13529
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
30; 3551.7; 01-OCT-2004 06:07:07; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13529
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 1; 849.9; 01-OCT-2004 20:27:29; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 51;13538
 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
 5; 1558.2; 01-OCT-2004 20:39:17; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;13538
 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
 8; 2385.0; 01-OCT-2004 20:53:04; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;13538
 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
15; 3554.7; 01-OCT-2004 21:12:34; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13538
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
22; 5177.4; 01-OCT-2004 21:39:37; Dark ; 87.5; 8; 10Alp CMi ; 0.40; 6500;occ; 175; 0;13538
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 2; -436.8; 01-OCT-2004 21:46:38; Dark ; 48.0; 132; 15Rho Pup ; 2.80; 6900;occ; 96; 0;13538
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 7; 100.6; 01-OCT-2004 21:55:36; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;13539
 8; 328.6; 01-OCT-2004 21:59:24; Dark ; 63.5; 108; Alp Col ; 2.65; 15200;occ; 127; 0;13539
 9; 604.4; 01-OCT-2004 22:03:59; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;13539
10; 737.0; 01-OCT-2004 22:06:12; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13539
11; 823.6; 01-OCT-2004 22:07:39; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;13539
12; 925.3; 01-OCT-2004 22:09:20; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;13539
13; 1142.3; 01-OCT-2004 22:12:57; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;13539
14; 1421.7; 01-OCT-2004 22:17:37; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;13539
15; 1557.1; 01-OCT-2004 22:19:52; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;13539
16; 1947.0; 01-OCT-2004 22:26:22; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;13539
17; 2167.0; 01-OCT-2004 22:30:02; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;13539
18; 2384.6; 01-OCT-2004 22:33:40; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;13539
19; 2507.9; 01-OCT-2004 22:35:43; Bright; 63.0; 105; 6Bet Ari ; 2.64; 8900;occ; 126; 0;13539
20; 2646.9; 01-OCT-2004 22:38:02; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;13539
21; 2945.6; 01-OCT-2004 22:43:01; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;13539
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
25; 3554.3; 01-OCT-2004 22:53:09; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;13539

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26; 3905.6; 01-OCT-2004 22:59:01; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;13539
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
32; 5180.2; 01-OCT-2004 23:20:15; Dark ; 75.5; 8; 10Alp CMi ; 0.40; 6500;occ; 151; 0;13539
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 7; 328.4; 01-OCT-2004 23:39:59; Dark ; 68.5; 108; Alp Col ; 2.65; 15200;occ; 137; 0;13540
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 9; 737.2; 01-OCT-2004 23:46:48; Dark ; 42.5; 143; Alp Hyi ; 2.86; 7200;occ; 85; 0;13540
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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
12; 1144.4; 01-OCT-2004 23:53:35; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;13540
13; 1421.2; 01-OCT-2004 23:58:12; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;13540
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4;	-3634.3;	15-OCT-2004	16:51:58;	Bright	;	38.0;	58;	21Alp And	;	2.07;	11000;occ;	76;	0;	13736
5;	-3483.6;	15-OCT-2004	16:54:28;	Bright	;	41.5;	53;	43Bet And	;	2.05;	3300;occ;	83;	0;	13736
6;	-3386.6;	15-OCT-2004	16:56:05;	Bright	;	48.0;	173;	4Bet Tri	;	3.00;	8900;occ;	96;	0;	13736
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15;	-2025.0;	15-OCT-2004	17:18:47;	Bright	;	36.0;	82;	48Bet UMa	;	2.37;	10600;occ;	72;	0;	13736
16;	-1821.0;	15-OCT-2004	17:22:11;	Bright	;	36.0;	174;	52Psi UMa	;	3.00;	4400;occ;	72;	0;	13736
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19;	-762.2;	15-OCT-2004	17:39:50;	Dark	;	59.5;	48;	30Alp Hya	;	1.98;	4100;occ;	119;	0;	13736
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22;	140.4;	15-OCT-2004	17:54:52;	Dark	;	39.0;	29;	Bet Car	;	1.67;	10200;occ;	78;	0;	13737
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14;-1321.3; 19-OCT-2004 10:22:15; Dark ; 144.0; 17; 78Bet Gem ; 1.16; 4500;occ; 288; 0;13789
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21;	4011.6;	21-OCT-2004	00:44:18;	Bright;		37.5;	82;	48Bet UMa	;	2.37;	10600;occ;	75;	0;	13812
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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23;	238.7;	23-OCT-2004	15:24:11;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	13850
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