

GOMOS Daily Report 23-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	25OCT2004 05:01:55
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (23OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (24OCT2004 00:00:00)

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

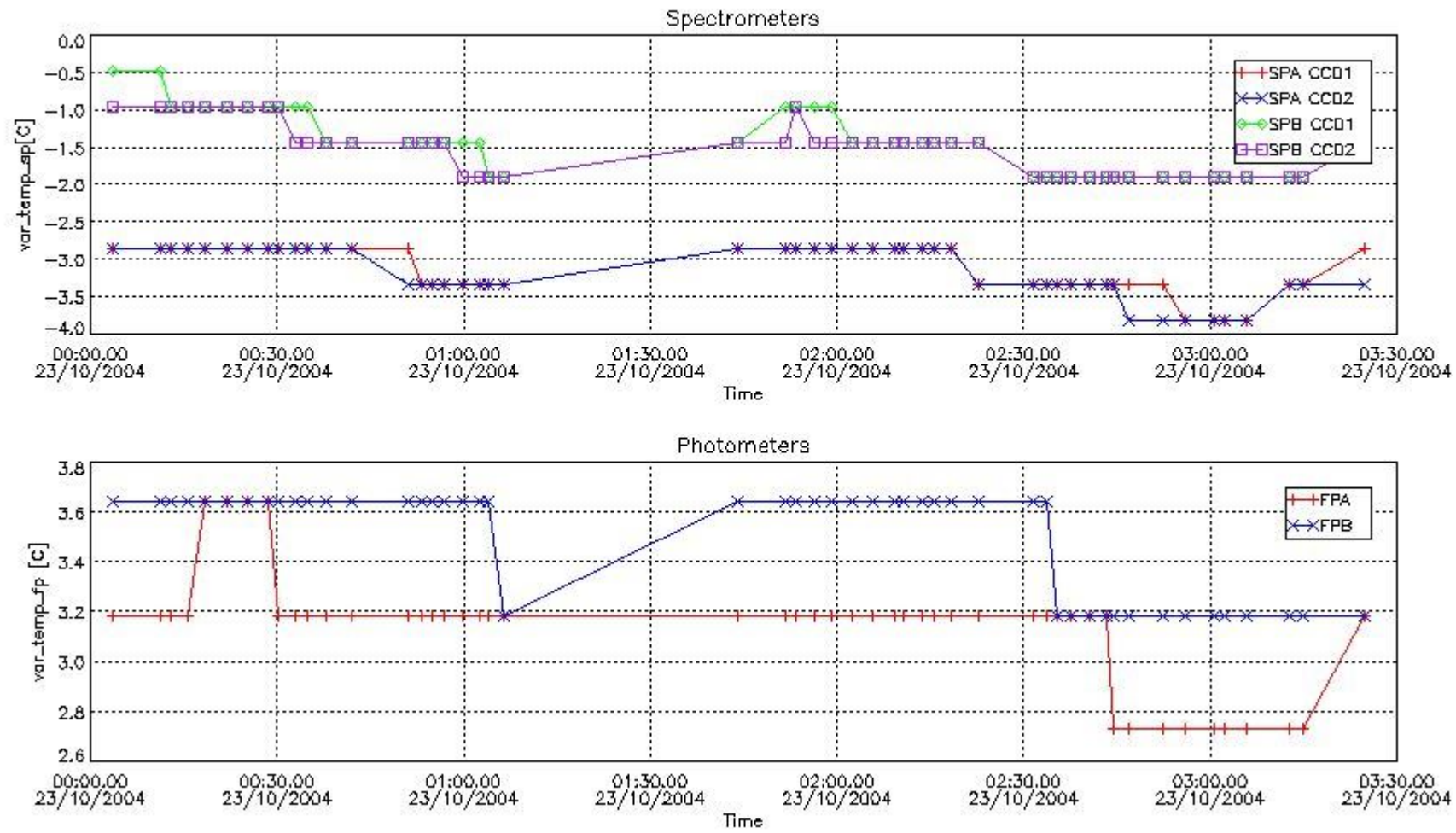
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20041023_000331_000000682031_00259_13840_0000.N1	23-OCT-2004 00:03:31	Twilight	68.000	48	30Alp Hya	1.9770	4100.0	136	13840	No
GOM_TRA_1PNPDE20041023_001110_000000442031_00259_13840_0001.N1	23-OCT-2004 00:11:10	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	13840	No
GOM_TRA_1PNPDE20041023_001248_000000472031_00259_13840_0002.N1	23-OCT-2004 00:12:48	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	13840	No
GOM_TRA_1PNPDE20041023_001545_000000522031_00260_13841_0003.N1	23-OCT-2004 00:15:45	Dark	51.500	70	Zet Pup	2.2460	39000.	103	13841	No
GOM_TRA_1PNPDE20041023_001823_000000692031_00260_13841_0004.N1	23-OCT-2004 00:18:23	Dark	68.500	88	31Eta CMa	2.4480	20000.	137	13841	No
GOM_TRA_1PNPDE20041023_002149_000000542031_00260_13841_0005.N1	23-OCT-2004 00:21:49	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	13841	No
GOM_TRA_1PNPDE20041023_002509_000000772031_00260_13841_0006.N1	23-OCT-2004 00:25:09	Dark	76.500	177	1Zet CMa	3.0220	26000.	153	13841	No
GOM_TRA_1PNPDE20041023_002839_000000412031_00260_13841_0007.N1	23-OCT-2004 00:28:39	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	13841	No
GOM_TRA_1PNPDE20041023_003004_000000452031_00260_13841_0008.N1	23-OCT-2004 00:30:04	Dark	44.500	9	Alp Eri	0.45300	24000.	89	13841	No
GOM_TRA_1PNPDE20041023_003259_000000472031_00260_13841_0009.N1	23-OCT-2004 00:32:59	Dark	47.000	157	The1Eri	2.9060	9300.0	94	13841	No
GOM_TRA_1PNPDE20041023_003458_000000422031_00260_13841_0010.N1	23-OCT-2004 00:34:58	Dark	42.000	84	Alp Phe	2.3970	4500.0	84	13841	No
GOM_TRA_1PNPDE20041023_003751_000002132031_00260_13841_0011.N1	23-OCT-2004 00:37:51	Bright	213.00	101	11Alp Lep	2.5820	7000.0	426	13841	No
GOM_TRA_1PNPDE20041023_004206_000000882031_00260_13841_0012.N1	23-OCT-2004 00:42:06	Bright	88.000	165	34Gam Eri	2.9500	3200.0	176	13841	No
GOM_TRA_1PNPDE20041023_005059_000000382031_00260_13841_0013.N1	23-OCT-2004 00:50:59	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	13841	No
GOM_TRA_1PNPDE20041023_005311_000000442031_00260_13841_0014.N1	23-OCT-2004 00:53:11	Bright	44.000	105	6Bet Ari	2.6450	8900.0	88	13841	No
GOM_TRA_1PNPDE20041023_005453_000000382031_00260_13841_0015.N1	23-OCT-2004 00:54:53	Bright	38.000	58	21Alp And	2.0730	11000.	76	13841	No
GOM_TRA_1PNPDE20041023_005654_000000412031_00260_13841_0016.N1	23-OCT-2004 00:56:54	Bright	41.000	53	43Bet And	2.0480	3300.0	82	13841	No
GOM_TRA_1PNPDE20041023_005953_000000442031_00260_13841_0017.N1	23-OCT-2004 00:59:53	Bright	43.500	73	57Gam1And	2.2600	13100.	87	13841	No
GOM_TRA_1PNPDE20041023_010239_000000392031_00260_13841_0018.N1	23-OCT-2004 01:02:39	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	13841	No
GOM_TRA_1PNPDE20041023_010355_000000392031_00260_13841_0019.N1	23-OCT-2004 01:03:55	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	13841	No
GOM_TRA_1PNPDE20041023_010622_000000392031_00260_13841_0020.N1	23-OCT-2004 01:06:22	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	13841	No
GOM_TRA_1PNPDE20041023_014408_000000632031_00260_13841_0000.N1	23-OCT-2004 01:44:08	Twilight	62.500	48	30Alp Hya	1.9770	4100.0	125	13841	No
GOM_TRA_1PNPDE20041023_015147_000000432031_00260_13841_0001.N1	23-OCT-2004 01:51:47	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	13841	No
GOM_TRA_1PNPDE20041023_015325_000000532031_00260_13841_0002.N1	23-OCT-2004 01:53:25	Dark	52.500	65	Lam Vel	2.2040	4400.0	105	13841	No
GOM_TRA_1PNPDE20041023_015622_000000512031_00261_13842_0003.N1	23-OCT-2004 01:56:22	Dark	50.500	70	Zet Pup	2.2460	39000.	101	13842	No
GOM_TRA_1PNPDE20041023_015900_000000692031_00261_13842_0004.N1	23-OCT-2004 01:59:00	Dark	68.500	88	31Eta CMa	2.4480	20000.	137	13842	No
GOM_TRA_1PNPDE20041023_020228_000000522031_00261_13842_0005.N1	23-OCT-2004 02:02:28	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	13842	No
GOM_TRA_1PNPDE20041023_020547_000000762031_00261_13842_0006.N1	23-OCT-2004 02:05:47	Dark	76.000	177	1Zet CMa	3.0220	26000.	152	13842	No
GOM_TRA_1PNPDE20041023_020916_000000392031_00261_13842_0007.N1	23-OCT-2004 02:09:16	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	13842	No
GOM_TRA_1PNPDE20041023_021041_000000402031_00261_13842_0008.N1	23-OCT-2004 02:10:41	Dark	39.500	9	Alp Eri	0.45300	24000.	79	13842	No
GOM_TRA_1PNPDE20041023_021338_000000442031_00261_13842_0009.N1	23-OCT-2004 02:13:38	Dark	44.000	157	The1Eri	2.9060	9300.0	88	13842	No
GOM_TRA_1PNPDE20041023_021534_000000392031_00261_13842_0010.N1	23-OCT-2004 02:15:34	Dark	39.000	84	Alp Phe	2.3970	4500.0	78	13842	No
GOM_TRA_1PNPDE20041023_021828_000002132031_00261_13842_0011.N1	23-OCT-2004 02:18:28	Bright	213.00	101	11Alp Lep	2.5820	7000.0	426	13842	No
GOM_TRA_1PNPDE20041023_022242_000000882031_00261_13842_0012.N1	23-OCT-2004 02:22:42	Bright	87.500	165	34Gam Eri	2.9500	3200.0	175	13842	No
GOM_TRA_1PNPDE20041023_023135_000000392031_00261_13842_0013.N1	23-OCT-2004 02:31:35	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	13842	No
GOM_TRA_1PNPDE20041023_023346_000000442031_00261_13842_0014.N1	23-OCT-2004 02:33:46	Bright	43.500	105	6Bet Ari	2.6450	8900.0	87	13842	No
GOM_TRA_1PNPDE20041023_023529_000000412031_00261_13842_0015.N1	23-OCT-2004 02:35:29	Bright	40.500	58	21Alp And	2.0730	11000.	81	13842	No
GOM_TRA_1PNPDE20041023_023728_000000432031_00261_13842_0016.N1	23-OCT-2004 02:37:28	Bright	42.500	53	43Bet And	2.0480	3300.0	85	13842	No
GOM_TRA_1PNPDE20041023_024029_000000442031_00261_13842_0017.N1	23-OCT-2004 02:40:29	Bright	43.500	73	57Gam1And	2.2600	13100.	87	13842	No
GOM_TRA_1PNPDE20041023_024314_000000372031_00261_13842_0018.N1	23-OCT-2004 02:43:14	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	13842	No
GOM_TRA_1PNPDE20041023_024431_000000392031_00261_13842_0019.N1	23-OCT-2004 02:44:31	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	13842	No
GOM_TRA_1PNPDE20041023_024659_000000382031_00261_13842_0020.N1	23-OCT-2004 02:46:59	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13842	No
GOM_TRA_1PNPDE20041023_025227_000000372031_00261_13842_0021.N1	23-OCT-2004 02:52:27	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	13842	No
GOM_TRA_1PNPDE20041023_025550_000000412031_00261_13842_0000.N1	23-OCT-2004 02:55:50	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	13842	No
GOM_TRA_1PNPDE20041023_030042_000000402031_00261_13842_0001.N1	23-OCT-2004 03:00:42	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	13842	No
GOM_TRA_1PNPDE20041023_030217_000000392031_00261_13842_0002.N1	23-OCT-2004 03:02:17	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	13842	No
GOM_TRA_1PNPDE20041023_030548_000000372031_00261_13842_0003.N1	23-OCT-2004 03:05:48	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	13842	No
GOM_TRA_1PNPDE20041023_031247_000000362031_00261_13842_0004.N1	23-OCT-2004 03:12:47	Bright	36.000	96	68Del Leo	2.5600	9300.0	72	13842	No
GOM_TRA_1PNPDE20041023_031446_000001722031_00261_13842_0005.N1	23-OCT-2004 03:14:46	Twilight	172.00	17	78Bet Gem	1.1610	4500.0	344	13842	No

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



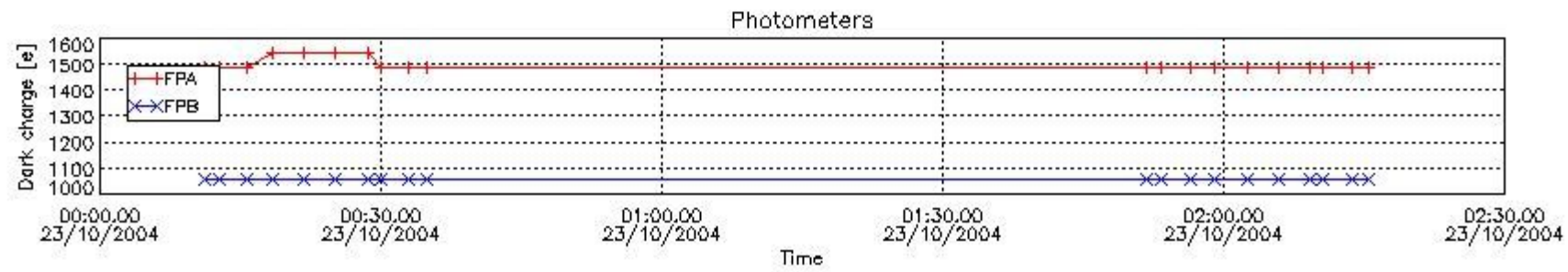
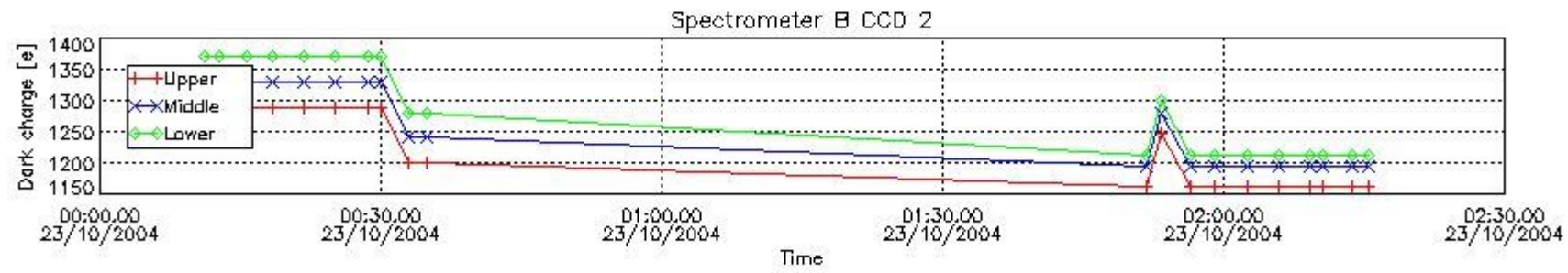
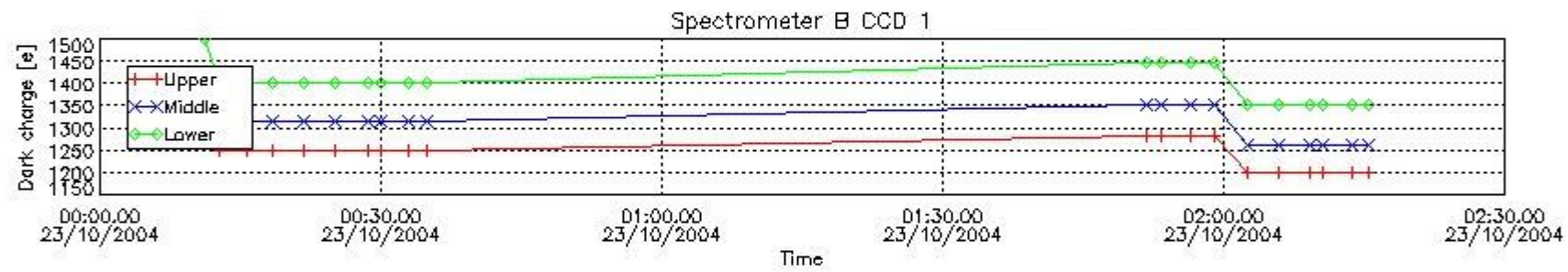
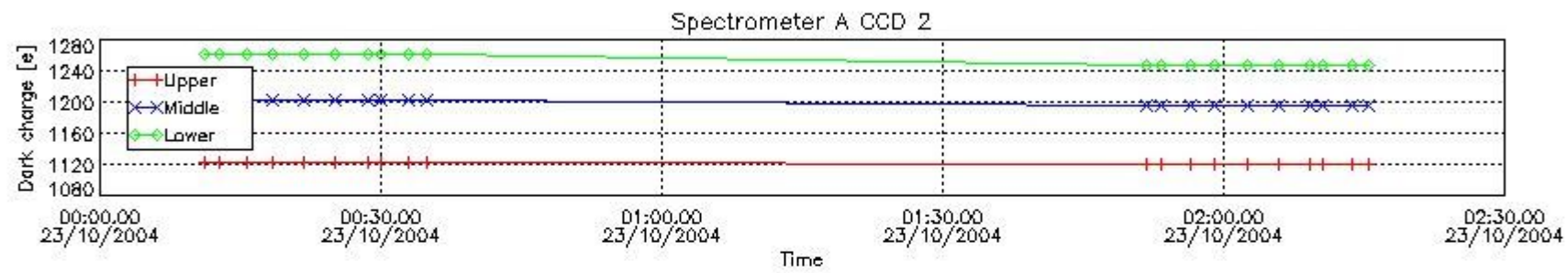
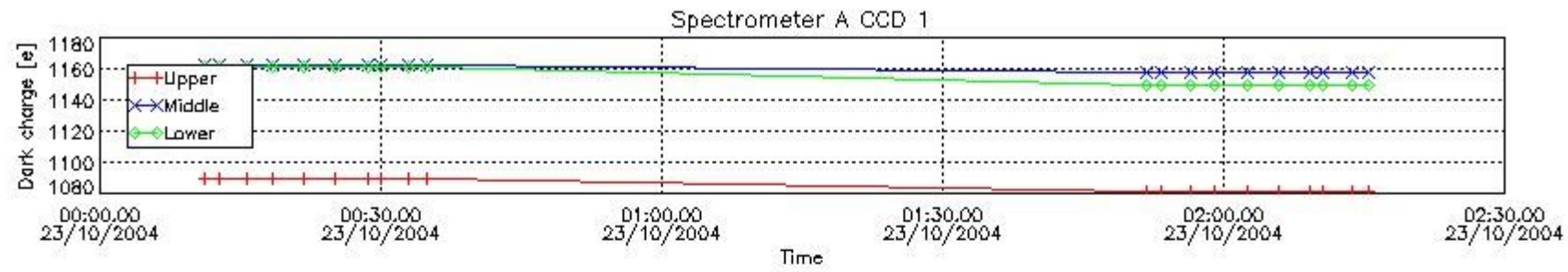
4. Overview of dark signal processing per product

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



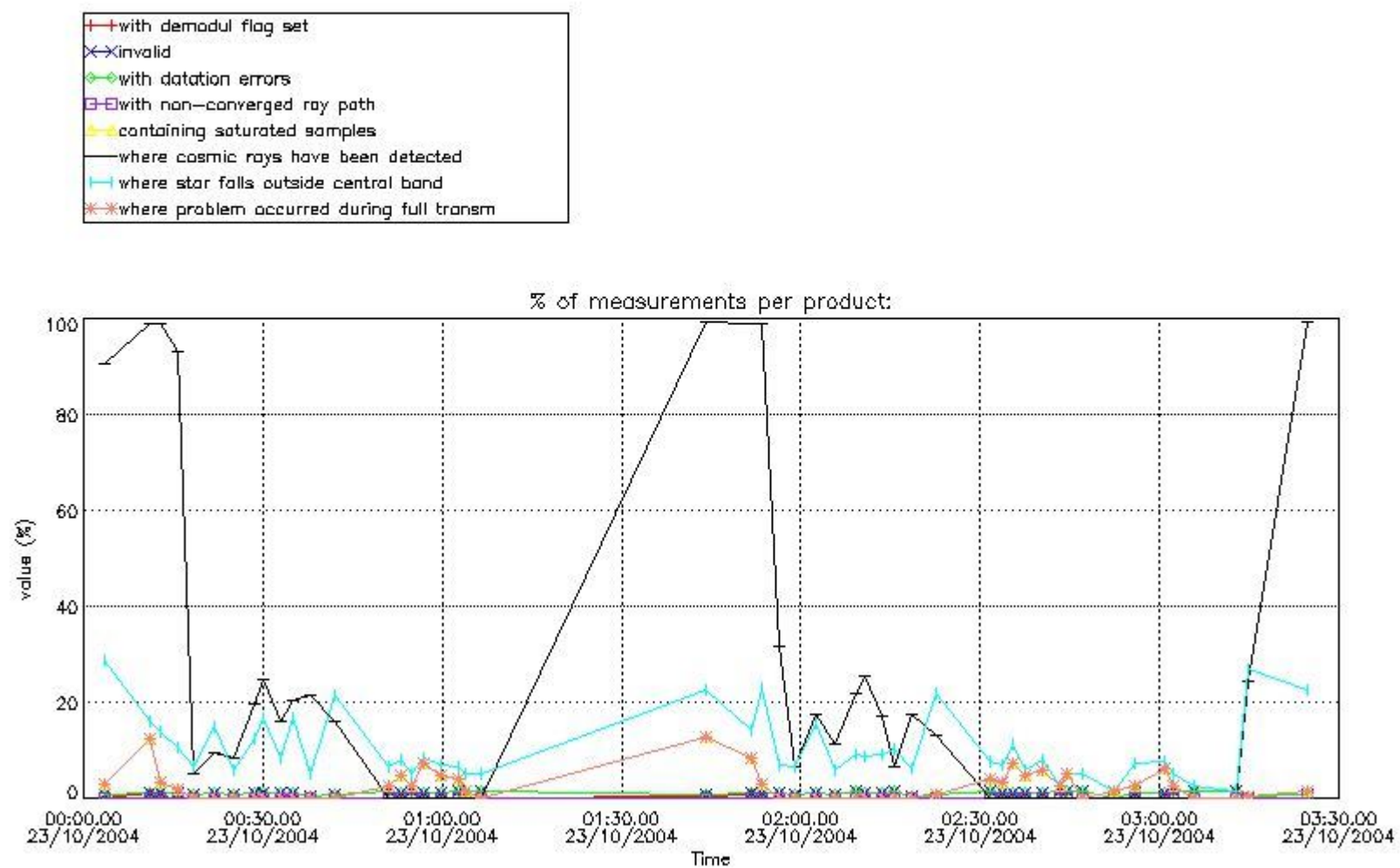
5. Demodulation flag and quality information monitoring

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.

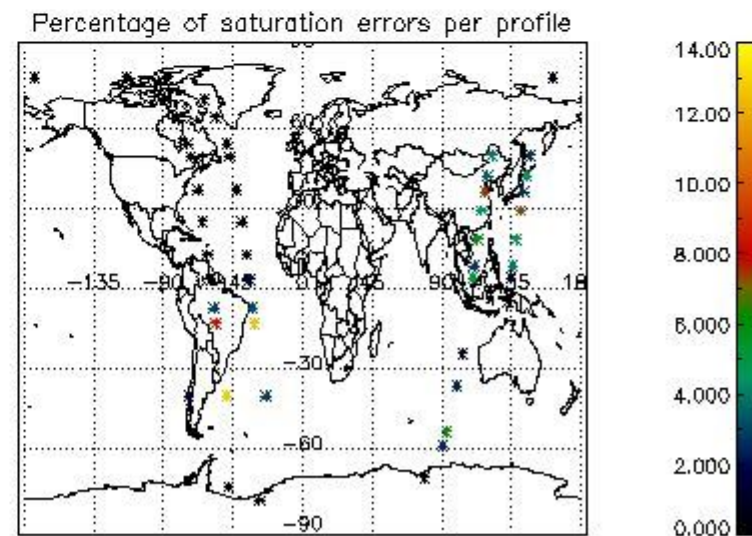
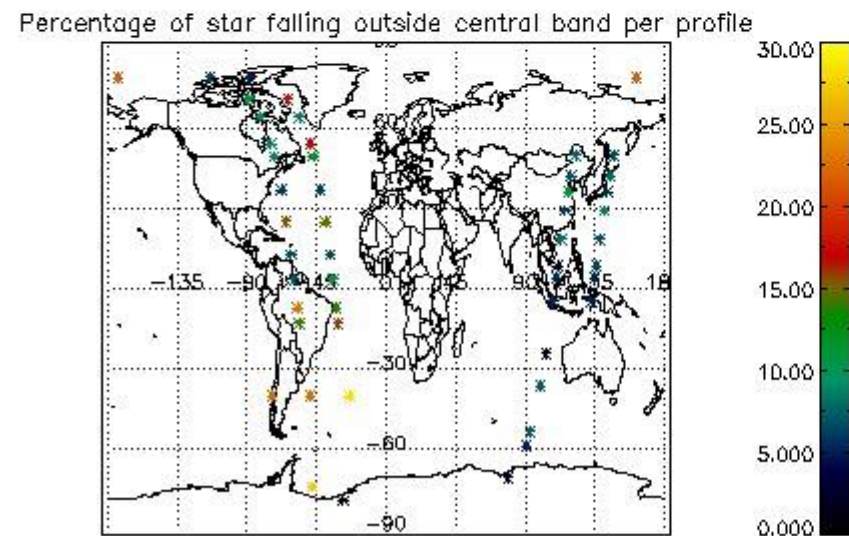
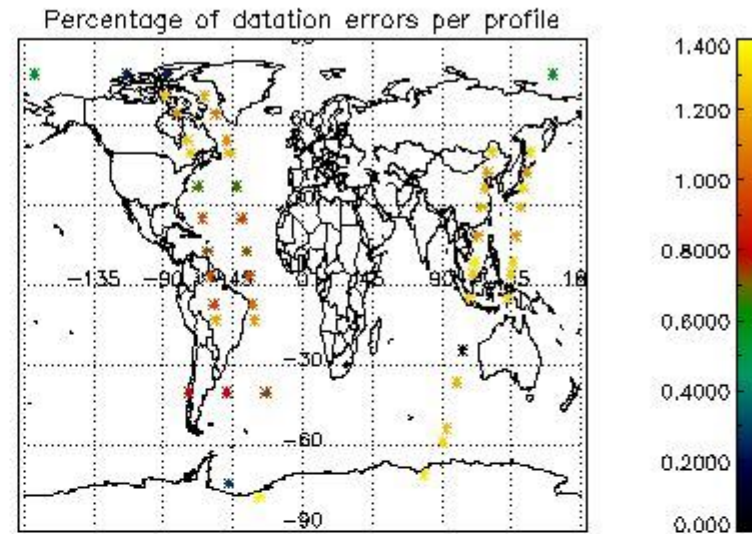
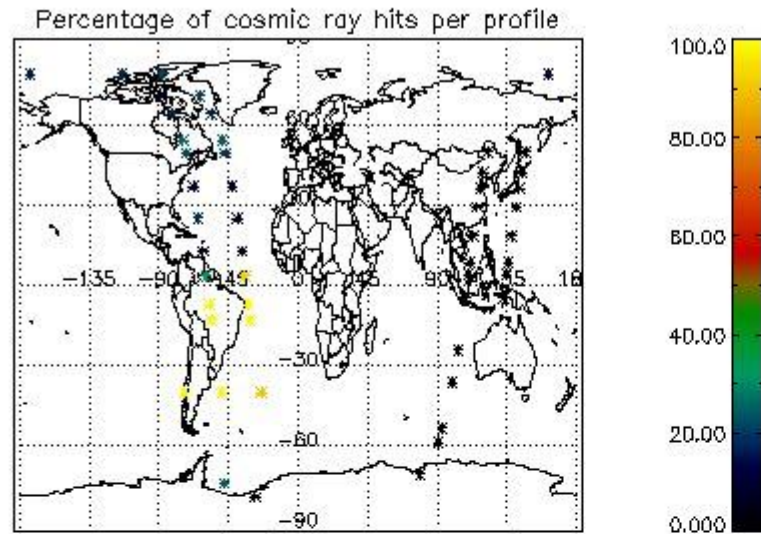
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
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)



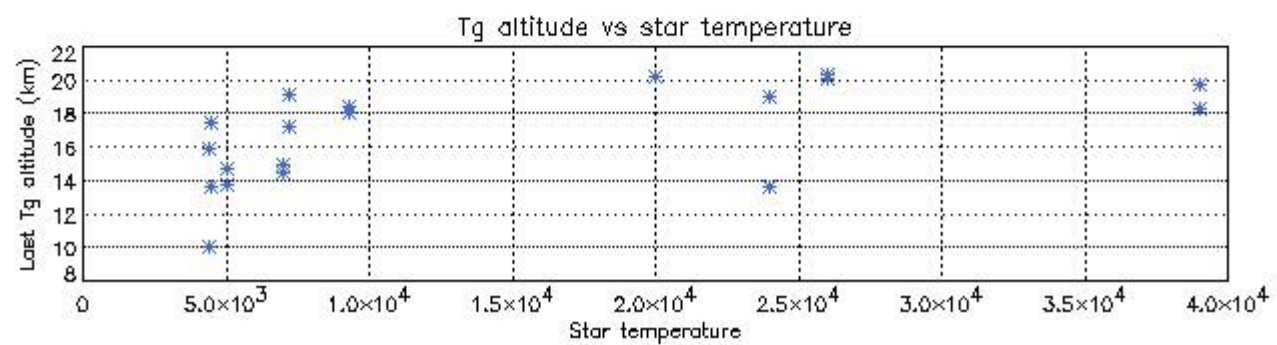
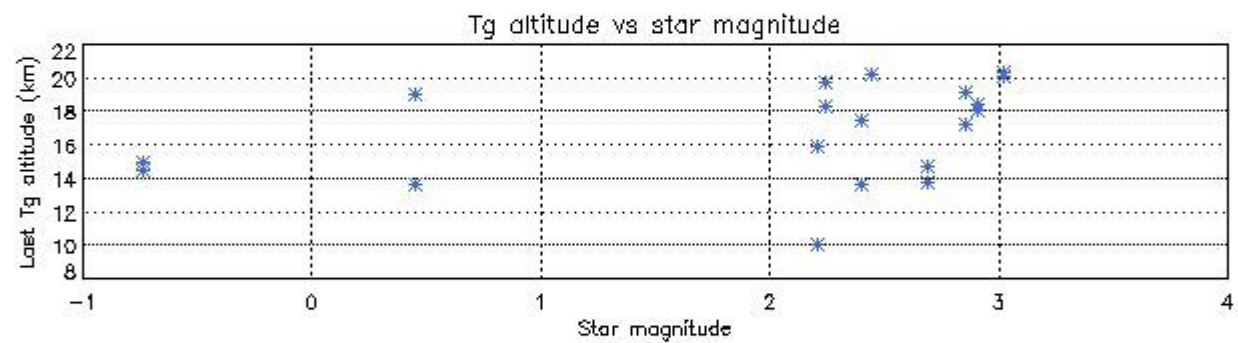
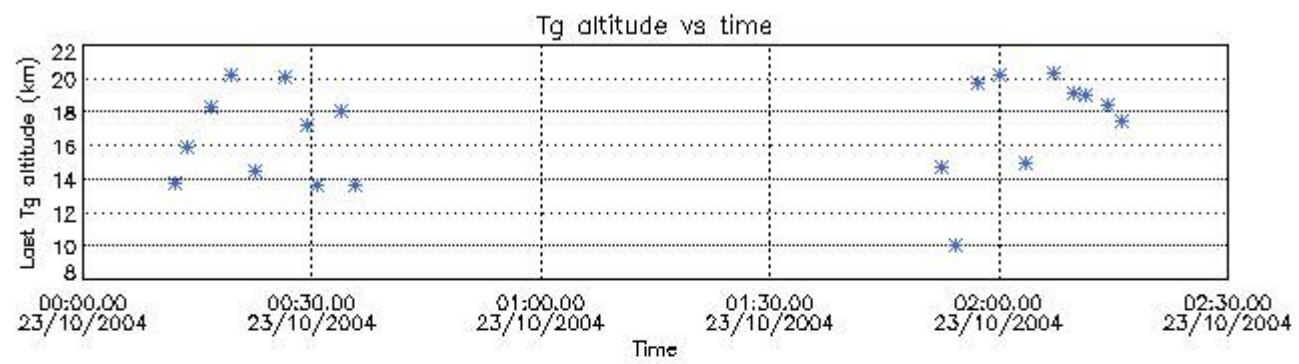
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.939	20.272	9.0636
St. deviation:	2.9201	3.5266	1.6607
Maximum:	20.279	25.920	10.492
Minimum:	9.9935	10.642	6.7447
Number of data:	20.000	26.000	4.0000

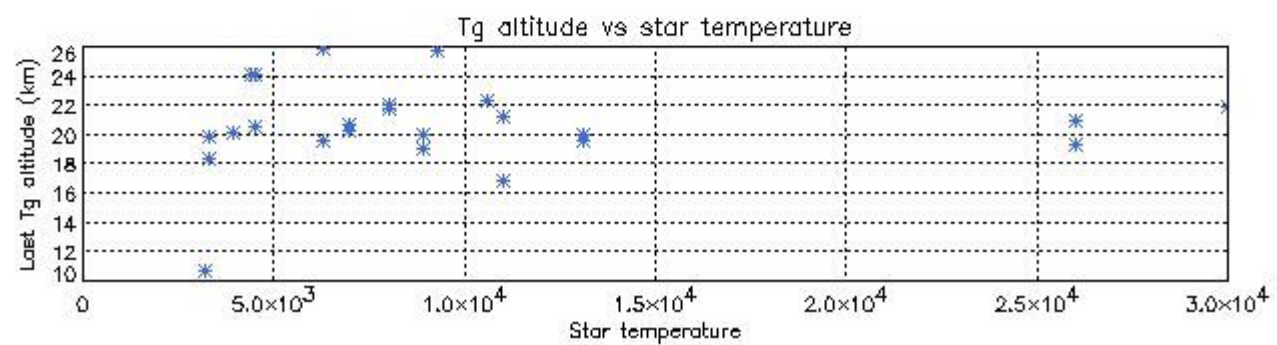
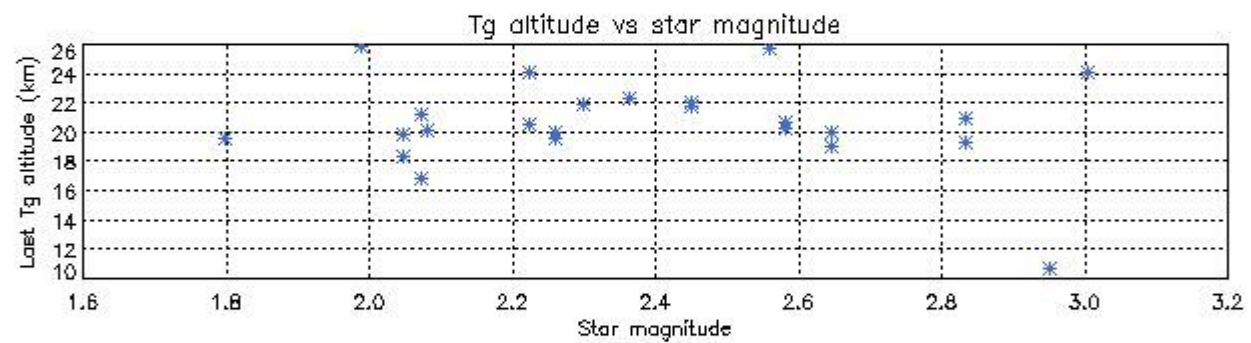
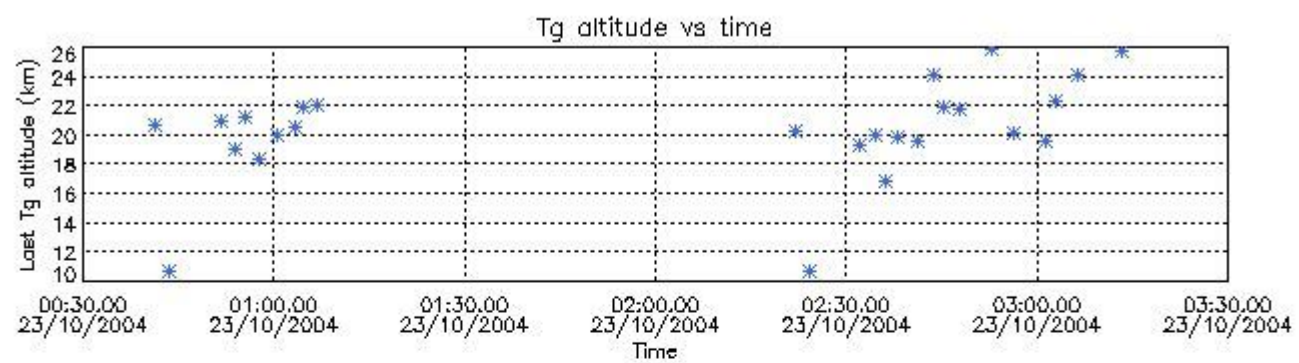
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



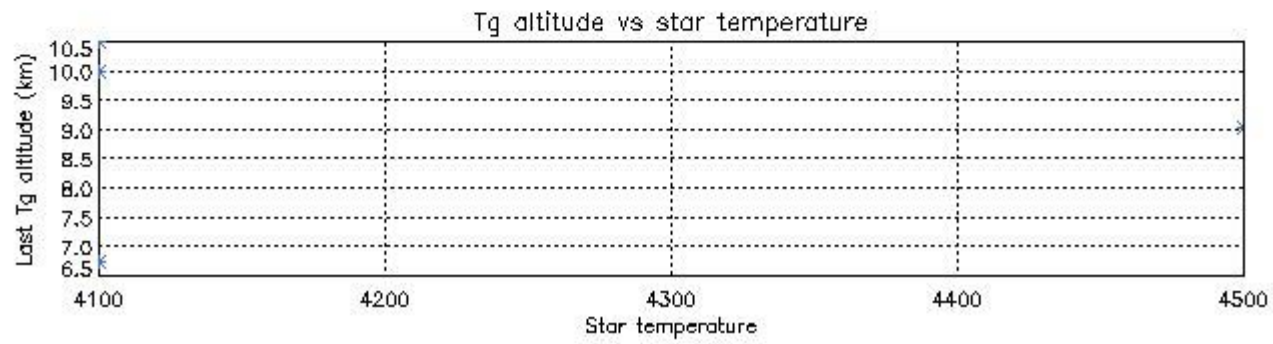
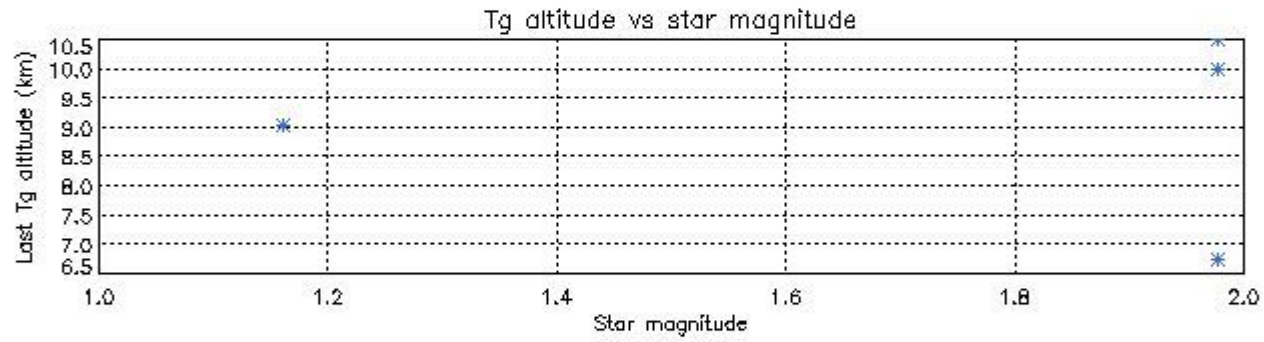
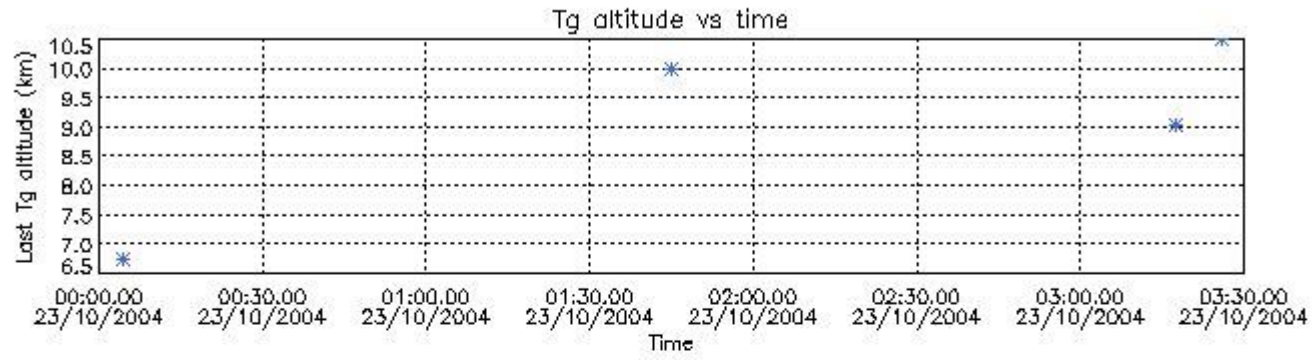
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

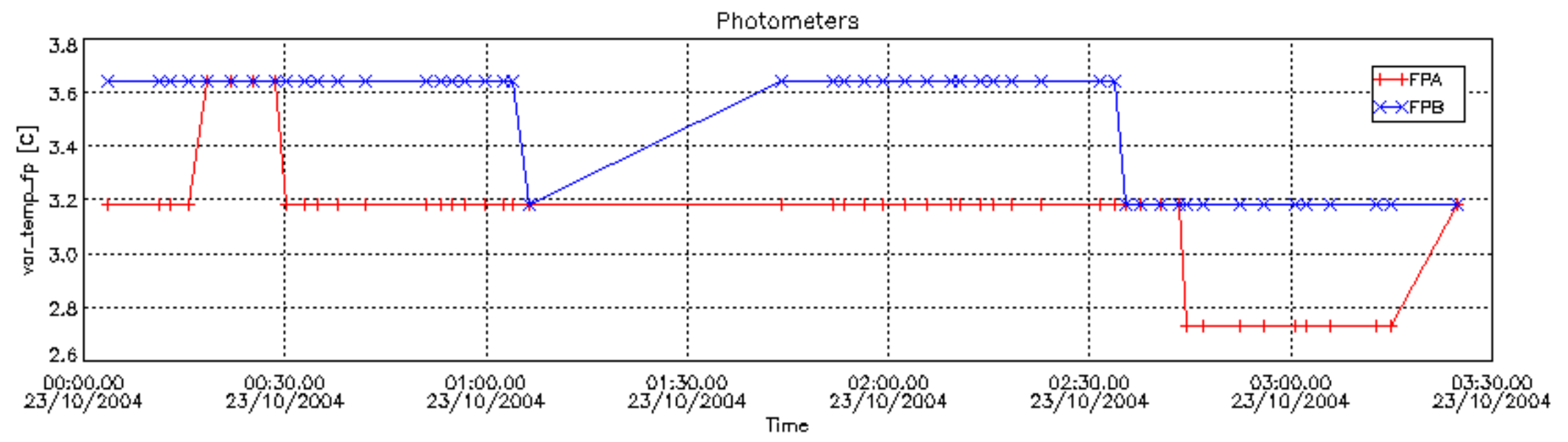
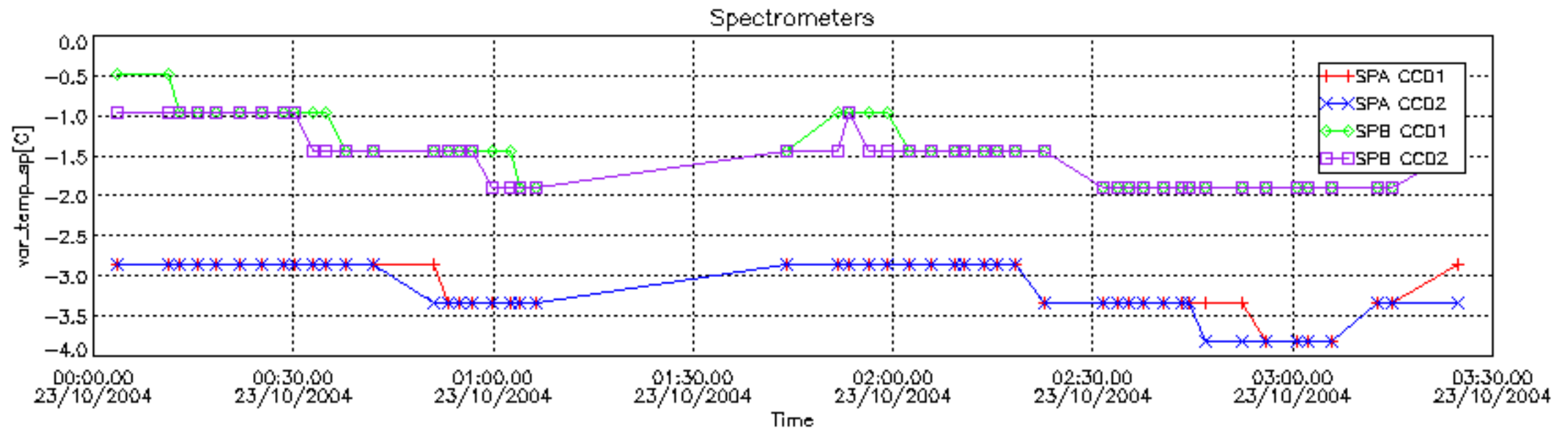
Tangent altitude at which the star is lost

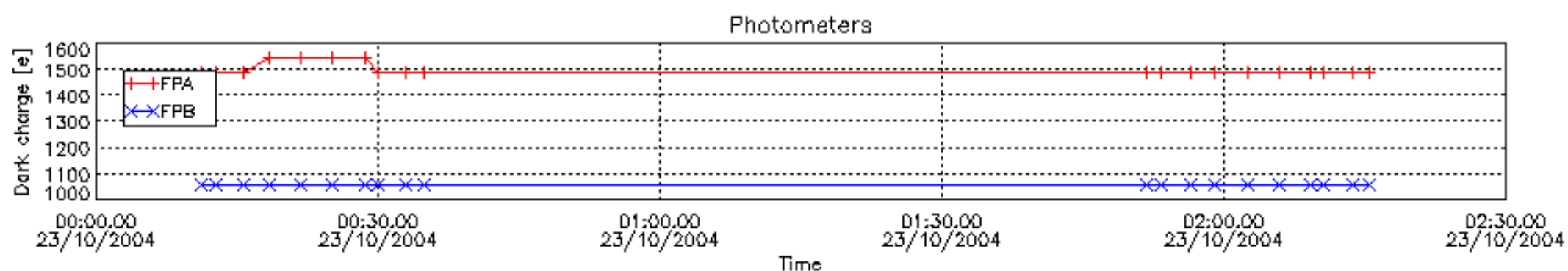
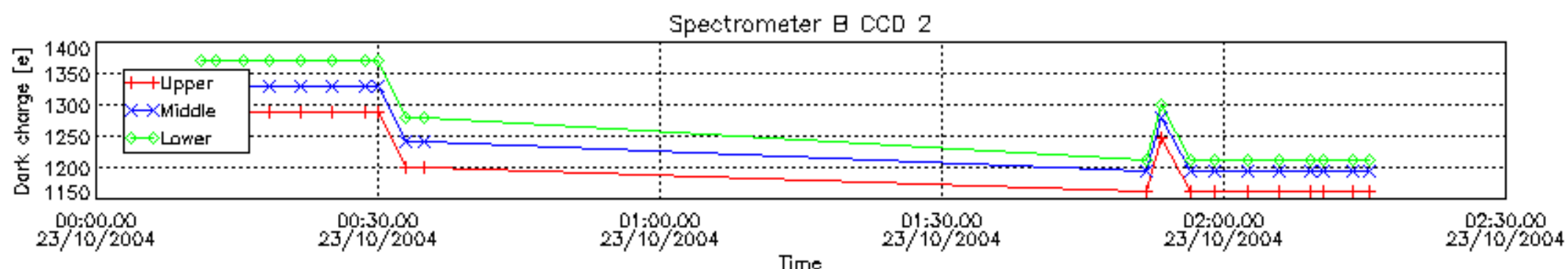
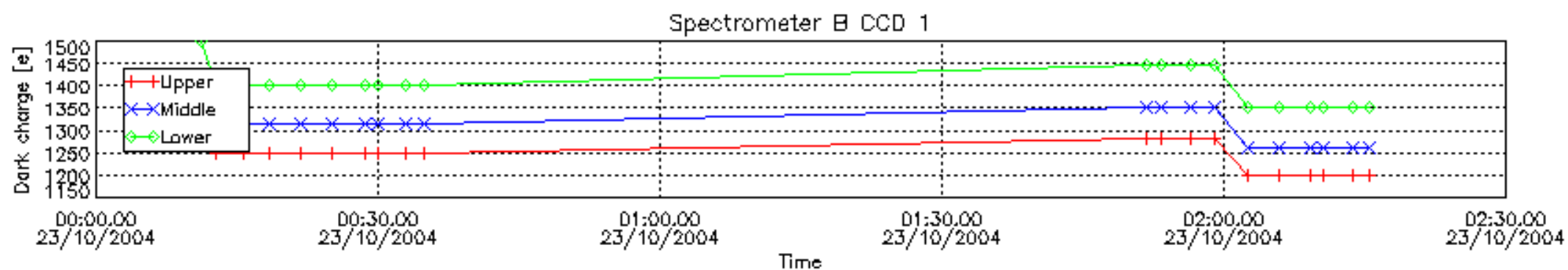
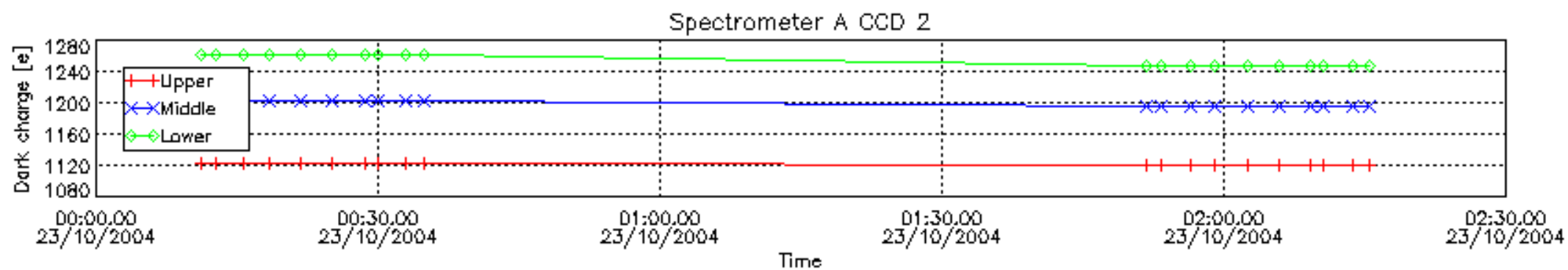
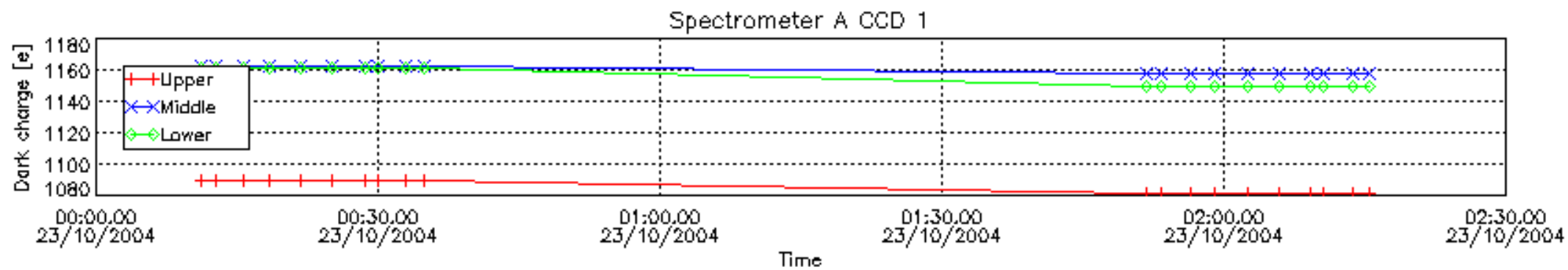


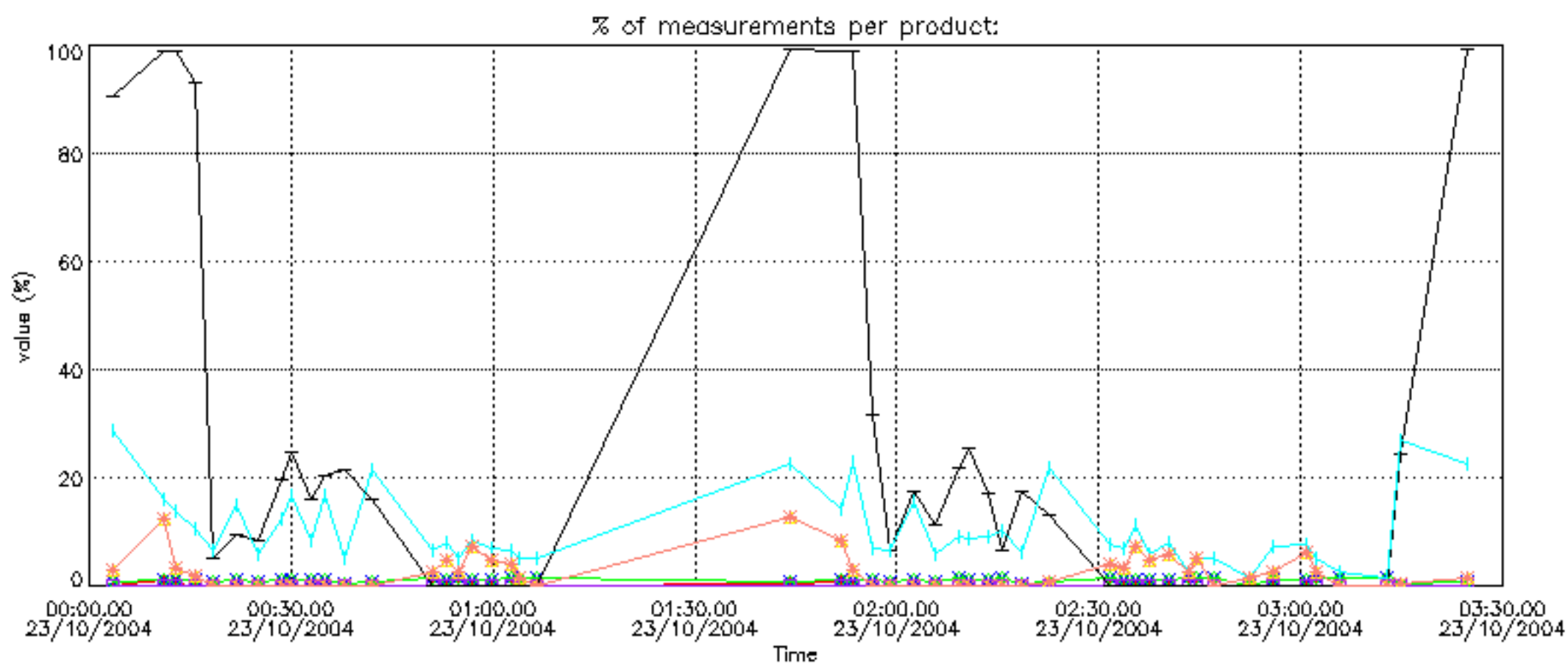
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

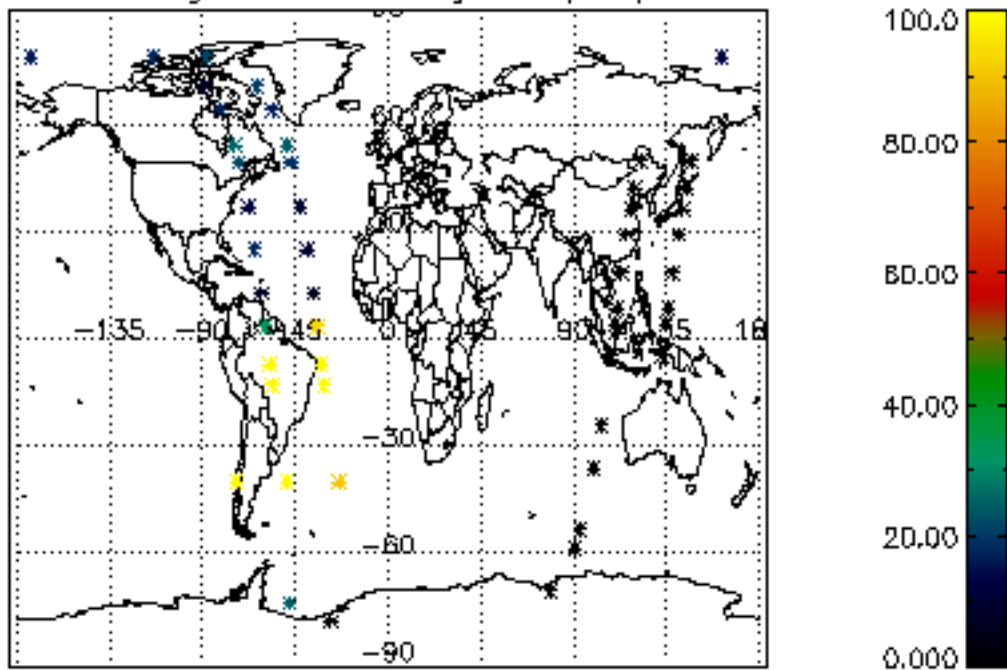
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1447.6	1461.8	1447.4
St. deviation:	6.2423	7.0798	7.1480	7.7751
Maximum:	1643.0	1572.0	1509.0	1502.0
Minimum:	1449.0	1437.0	1431.0	1406.0
Number of data:	27450.	27450.	35850.	35850.



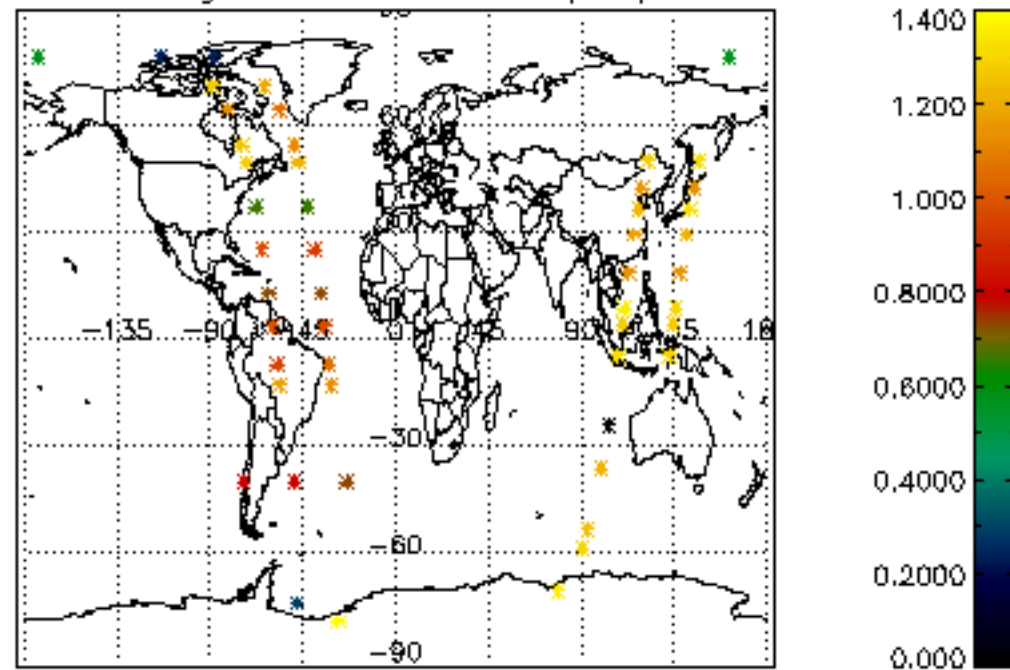




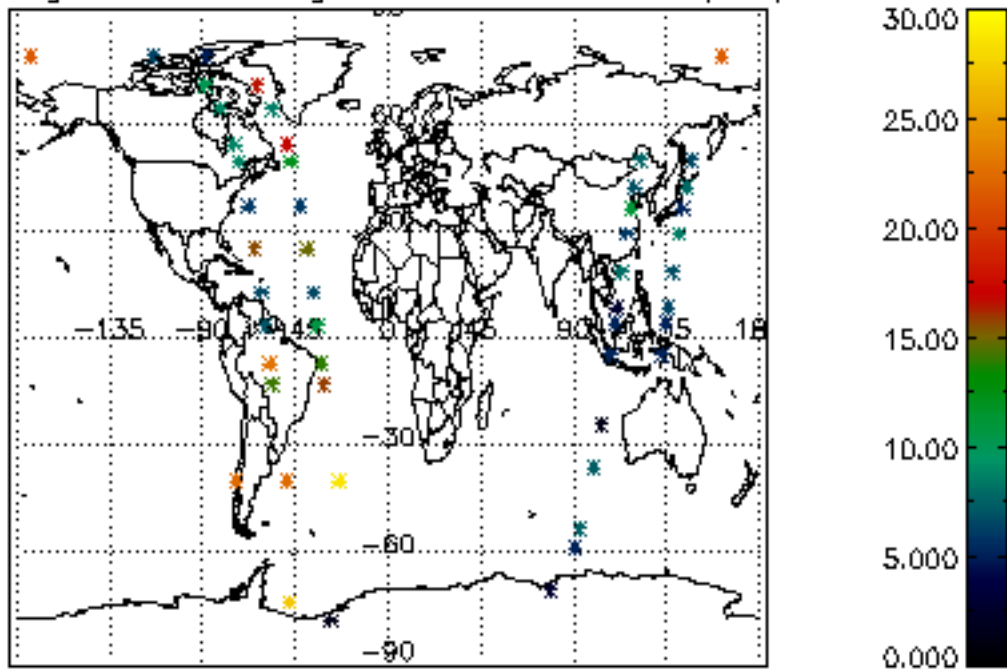
Percentage of cosmic ray hits per profile



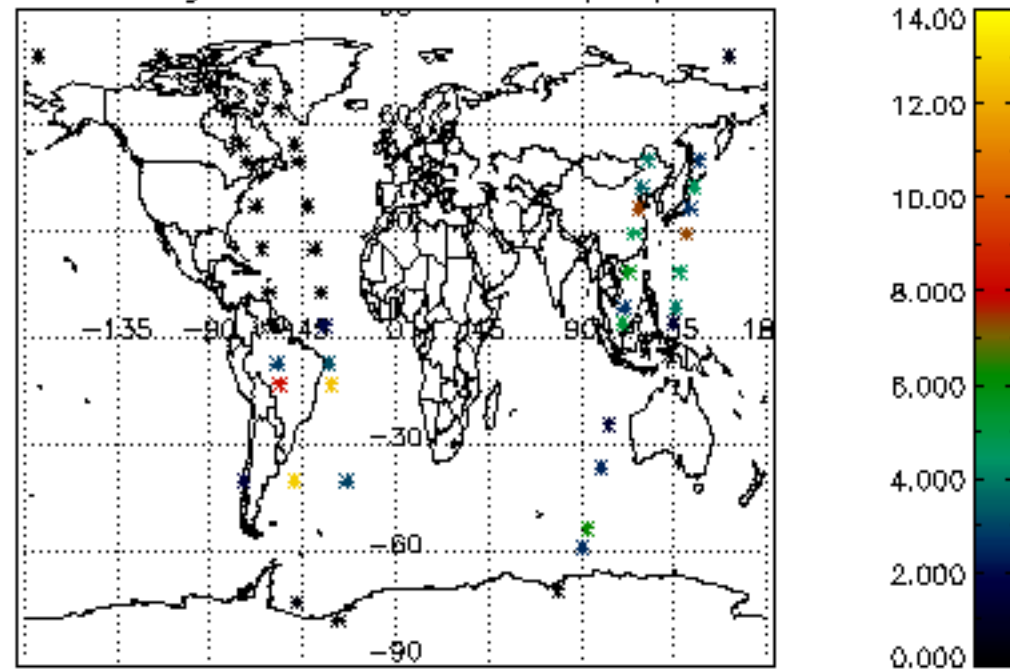
Percentage of datation errors per profile



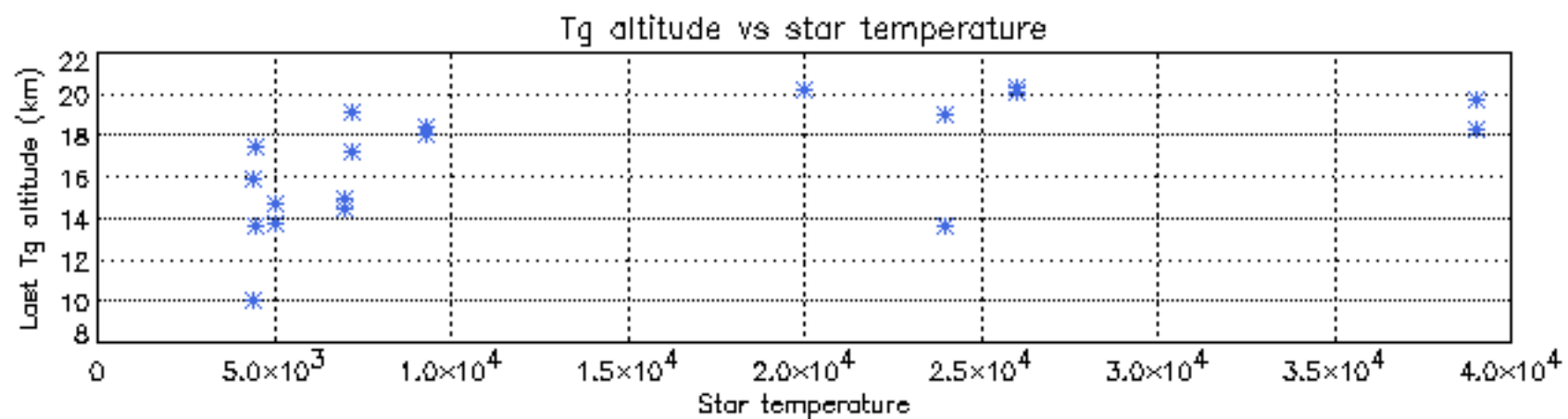
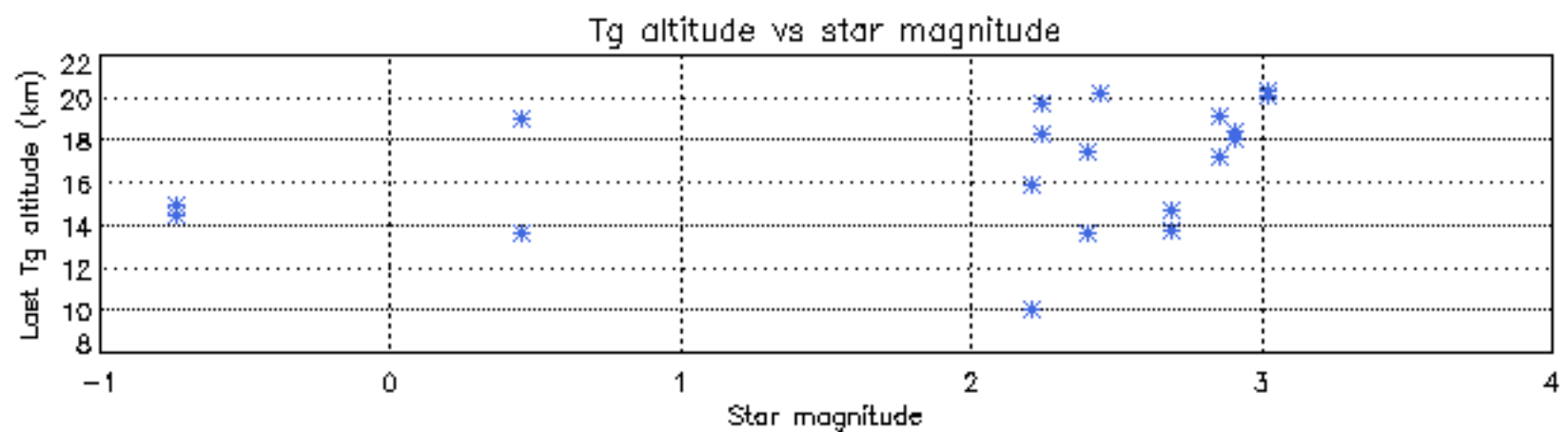
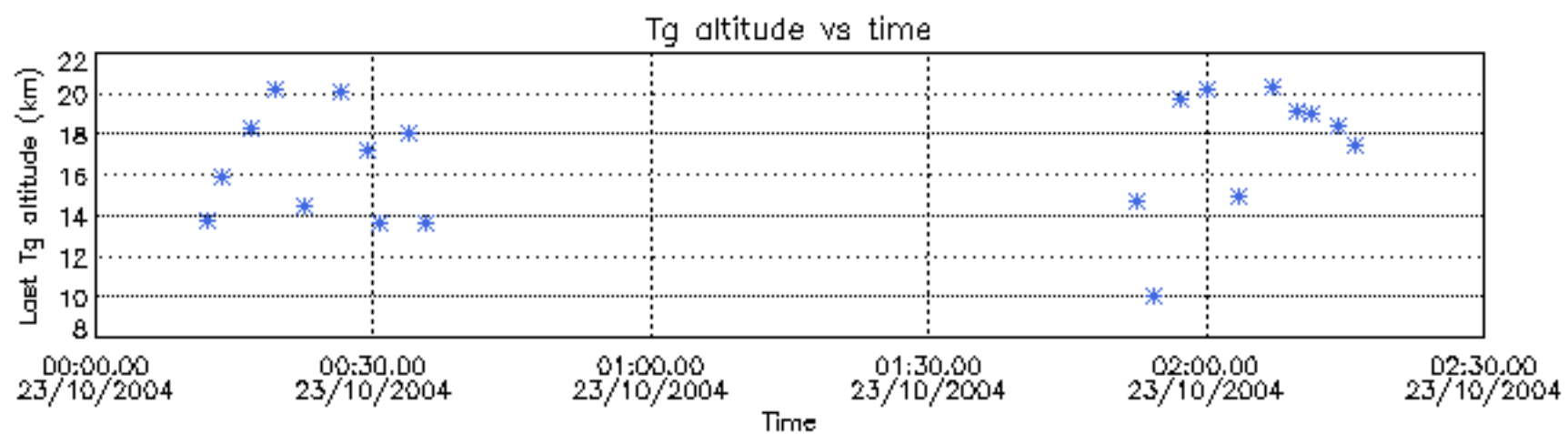
Percentage of star falling outside central band per profile



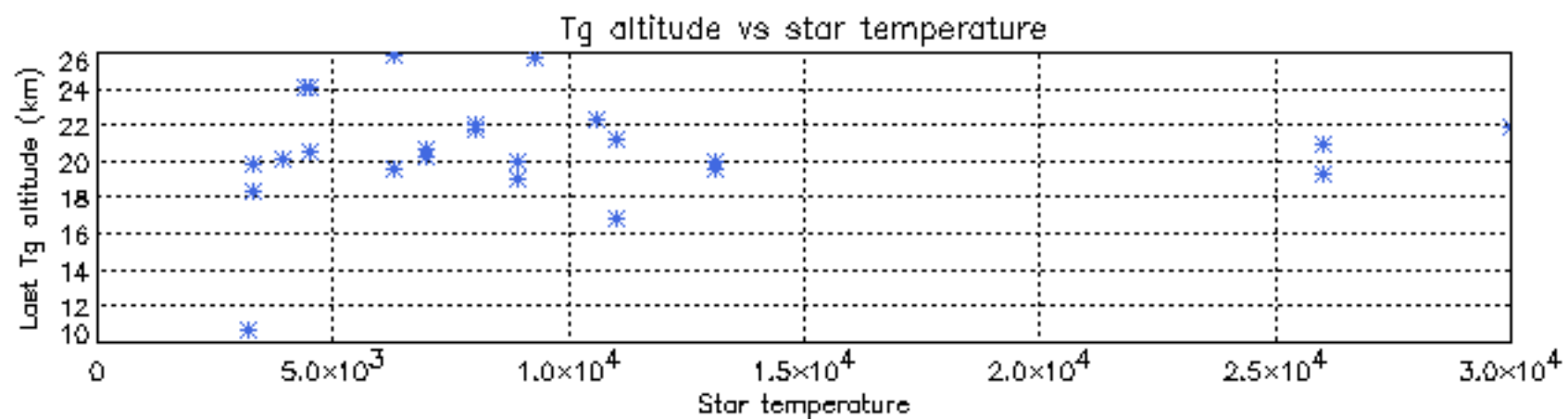
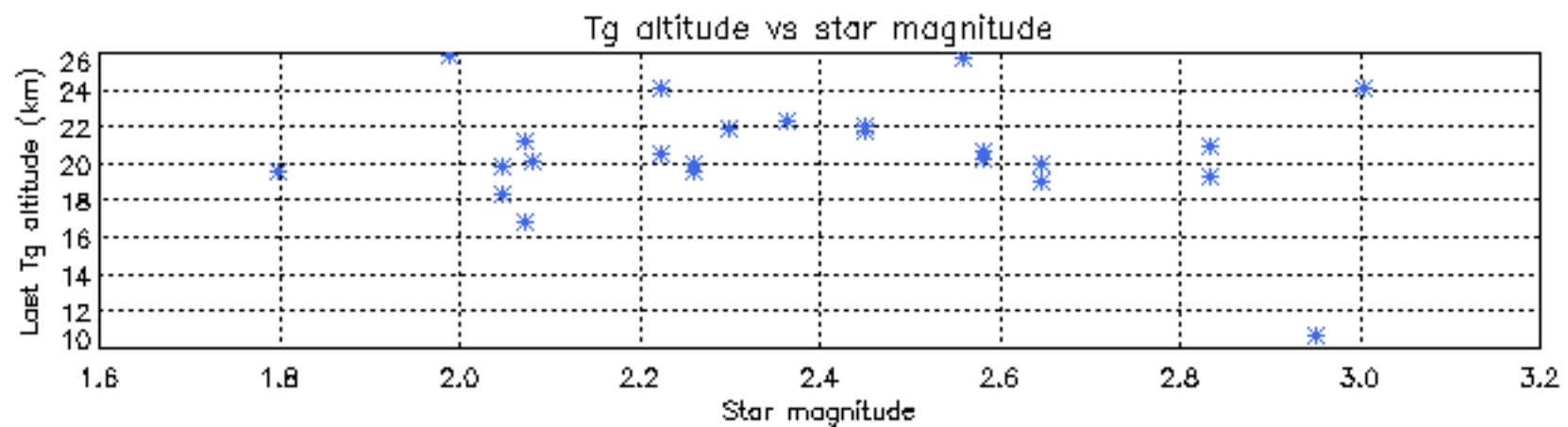
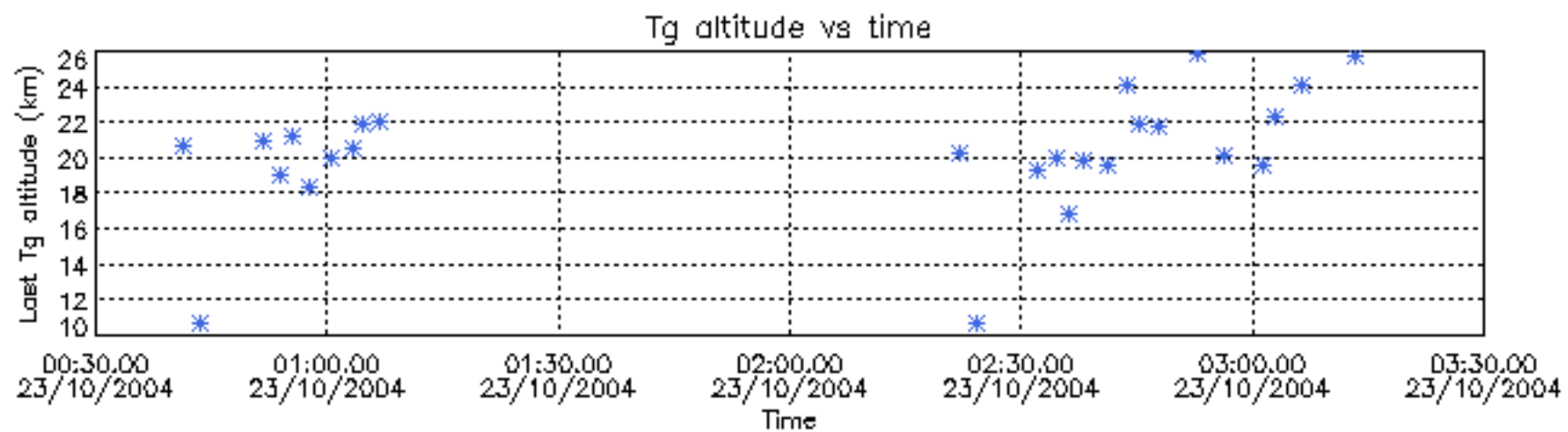
Percentage of saturation errors per profile



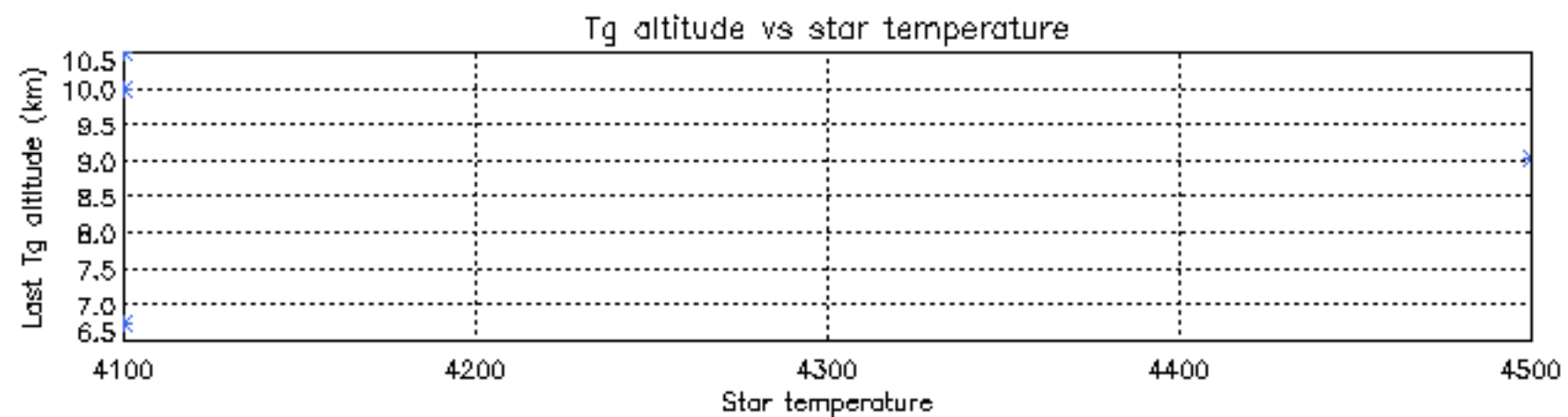
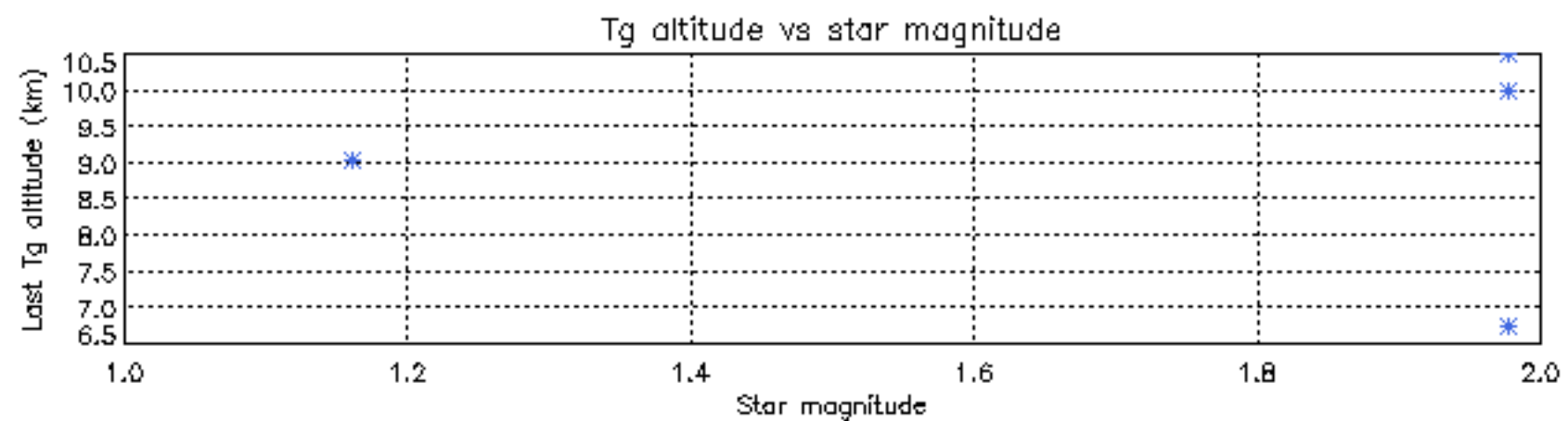
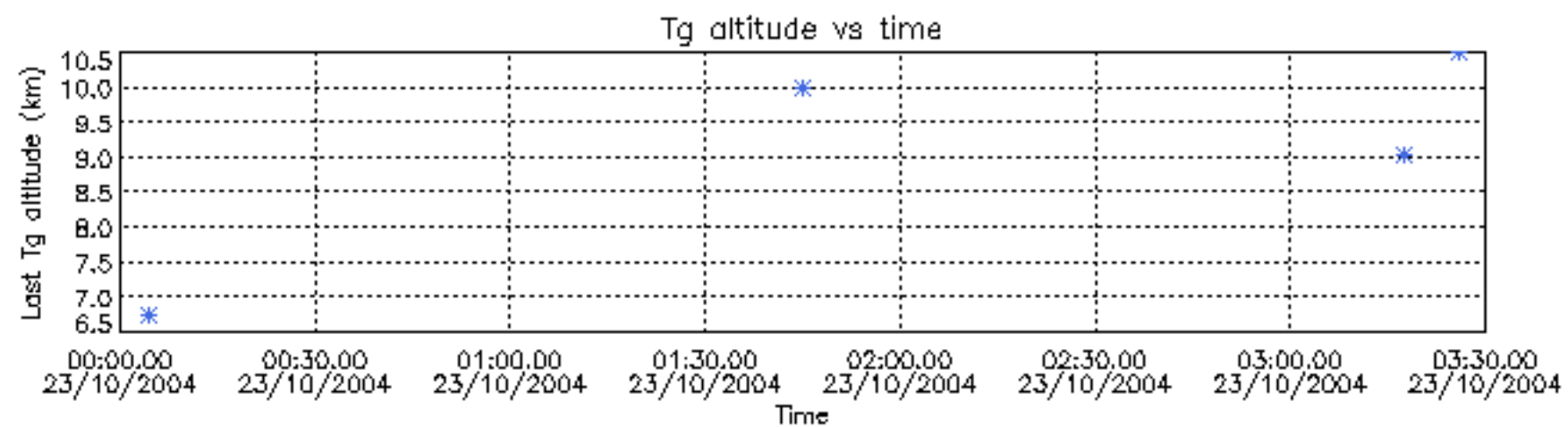
Tangent altitude at which the star is lost



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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 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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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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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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