

GOMOS Daily Report 10-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	12OCT2004 05:01:44
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (10OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (11OCT2004 00:00:00)

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

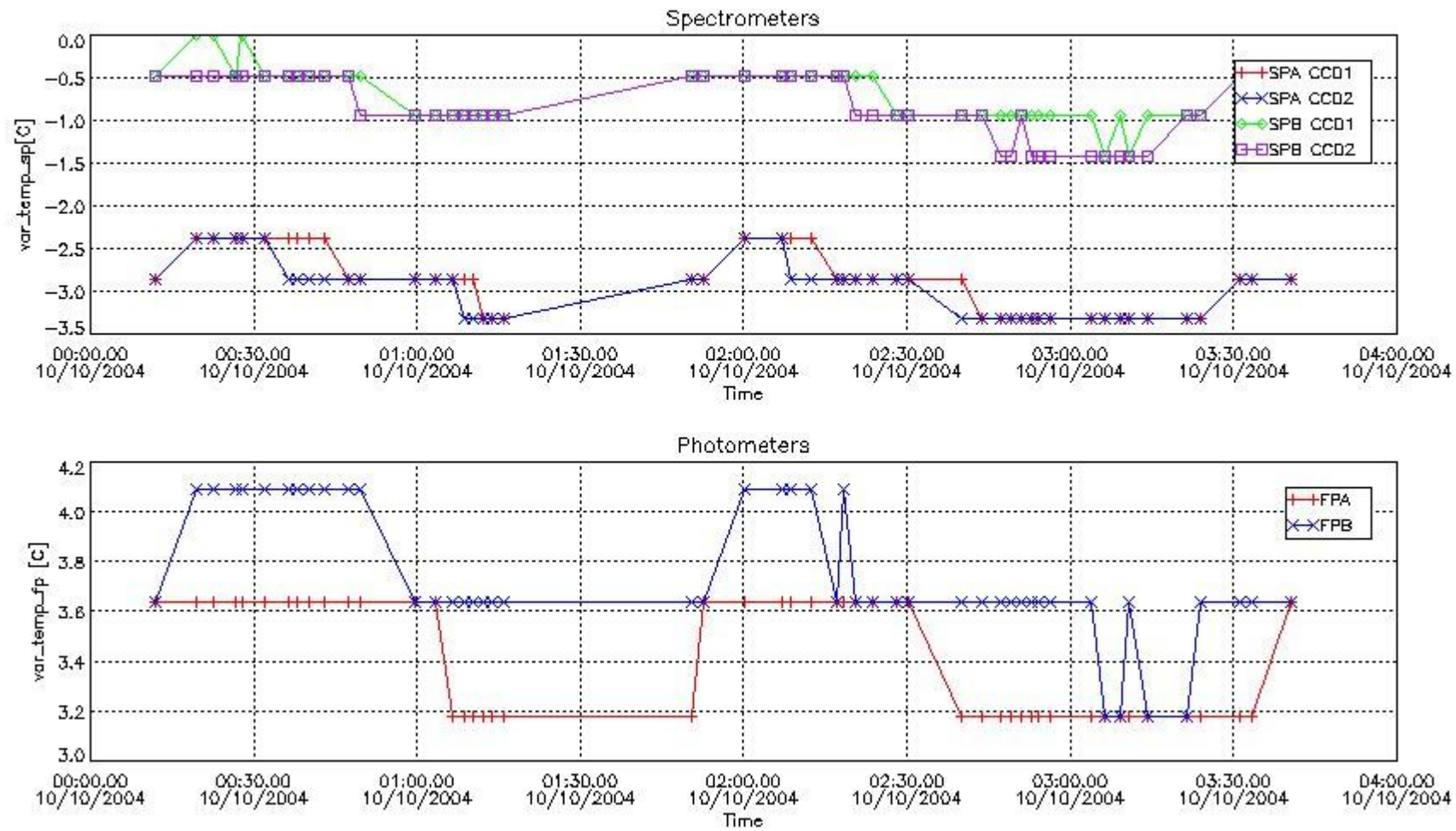
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20041010_001155_000001042031_00073_13654_0000.N1	10-OCT-2004 00:11:55	Dark	103.50	8	10Alp CMI	0.40000	6500.0	207	13654	No
GOM_TRA_1PNPDE20041010_001928_000000482031_00073_13654_0001.N1	10-OCT-2004 00:19:28	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	13654	No
GOM_TRA_1PNPDE20041010_002226_000000452031_00073_13654_0002.N1	10-OCT-2004 00:22:26	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	13654	No
GOM_TRA_1PNPDE20041010_002631_000000492031_00074_13655_0003.N1	10-OCT-2004 00:26:31	Dark	49.000	161	Tau Pup	2.9310	4500.0	98	13655	No
GOM_TRA_1PNPDE20041010_002754_000000612031_00074_13655_0004.N1	10-OCT-2004 00:27:54	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	13655	No
GOM_TRA_1PNPDE20041010_003150_000000682031_00074_13655_0005.N1	10-OCT-2004 00:31:50	Dark	67.500	108	Alp Col	2.6520	15200.	135	13655	No
GOM_TRA_1PNPDE20041010_003622_000000402031_00074_13655_0006.N1	10-OCT-2004 00:36:22	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	13655	No
GOM_TRA_1PNPDE20041010_003749_000000452031_00074_13655_0007.N1	10-OCT-2004 00:37:49	Dark	45.000	9	Alp Eri	0.45300	24000.	90	13655	No
GOM_TRA_1PNPDE20041010_004004_000000522031_00074_13655_0008.N1	10-OCT-2004 00:40:04	Dark	51.500	157	The1Eri	2.9060	9300.0	103	13655	No
GOM_TRA_1PNPDE20041010_004257_000000452031_00074_13655_0009.N1	10-OCT-2004 00:42:57	Twilight	44.500	84	Alp Phe	2.3970	4500.0	89	13655	No
GOM_TRA_1PNPDE20041010_004726_000000472031_00074_13655_0010.N1	10-OCT-2004 00:47:26	Bright	47.000	18	24Alp PsA	1.1660	9700.0	94	13655	No
GOM_TRA_1PNPDE20041010_004936_000000512031_00074_13655_0011.N1	10-OCT-2004 00:49:36	Bright	50.500	52	16Bet Cet	2.0370	4500.0	101	13655	No
GOM_TRA_1PNPDE20041010_005930_000000392031_00074_13655_0012.N1	10-OCT-2004 00:59:30	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	13655	No
GOM_TRA_1PNPDE20041010_010318_000000422031_00074_13655_0013.N1	10-OCT-2004 01:03:18	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	13655	No
GOM_TRA_1PNPDE20041010_010628_000000432031_00074_13655_0014.N1	10-OCT-2004 01:06:28	Bright	43.000	53	43Bet And	2.0480	3300.0	86	13655	No
GOM_TRA_1PNPDE20041010_010839_000000512031_00074_13655_0015.N1	10-OCT-2004 01:08:39	Bright	51.000	173	4Bet Tri	3.0040	8900.0	102	13655	No
GOM_TRA_1PNPDE20041010_011022_000000522031_00074_13655_0016.N1	10-OCT-2004 01:10:22	Bright	51.500	73	57Gam1And	2.2600	13100.	103	13655	No
GOM_TRA_1PNPDE20041010_011207_000000402031_00074_13655_0017.N1	10-OCT-2004 01:12:07	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	13655	No
GOM_TRA_1PNPDE20041010_011337_000000422031_00074_13655_0018.N1	10-OCT-2004 01:13:37	Bright	41.500	110	37Del Cas	2.6780	8900.0	83	13655	No
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GOM_TRA_1PNPDE20041010_015027_000000532031_00074_13655_0000.N1	10-OCT-2004 01:50:27	Twilight	52.500	48	30Alp Hya	1.9770	4100.0	105	13655	No
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GOM_TRA_1PNPDE20041010_020005_000000482031_00074_13655_0002.N1	10-OCT-2004 02:00:05	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	13655	No
GOM_TRA_1PNPDE20041010_020708_000000482031_00075_13656_0003.N1	10-OCT-2004 02:07:08	Dark	48.000	161	Tau Pup	2.9310	4500.0	96	13656	No
GOM_TRA_1PNPDE20041010_020831_000000612031_00075_13656_0004.N1	10-OCT-2004 02:08:31	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	13656	No
GOM_TRA_1PNPDE20041010_021227_000000682031_00075_13656_0005.N1	10-OCT-2004 02:12:27	Dark	68.000	108	Alp Col	2.6520	15200.	136	13656	No
GOM_TRA_1PNPDE20041010_021658_000000412031_00075_13656_0006.N1	10-OCT-2004 02:16:58	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	13656	No
GOM_TRA_1PNPDE20041010_021825_000000502031_00075_13656_0007.N1	10-OCT-2004 02:18:25	Dark	49.500	9	Alp Eri	0.45300	24000.	99	13656	No
GOM_TRA_1PNPDE20041010_022041_000000512031_00075_13656_0008.N1	10-OCT-2004 02:20:41	Dark	51.000	157	The1Eri	2.9060	9300.0	102	13656	No
GOM_TRA_1PNPDE20041010_022334_000000432031_00075_13656_0009.N1	10-OCT-2004 02:23:34	Twilight	43.000	84	Alp Phe	2.3970	4500.0	86	13656	No
GOM_TRA_1PNPDE20041010_022802_000000442031_00075_13656_0010.N1	10-OCT-2004 02:28:02	Bright	43.500	18	24Alp PsA	1.1660	9700.0	87	13656	No
GOM_TRA_1PNPDE20041010_023014_000000482031_00075_13656_0011.N1	10-OCT-2004 02:30:14	Bright	48.000	52	16Bet Cet	2.0370	4500.0	96	13656	No
GOM_TRA_1PNPDE20041010_024005_000000392031_00075_13656_0012.N1	10-OCT-2004 02:40:05	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	13656	No
GOM_TRA_1PNPDE20041010_024354_000000412031_00075_13656_0013.N1	10-OCT-2004 02:43:54	Bright	40.500	93	53Bet Peg	2.5200	3100.0	81	13656	No
GOM_TRA_1PNPDE20041010_024703_000000452031_00075_13656_0014.N1	10-OCT-2004 02:47:03	Bright	45.000	53	43Bet And	2.0480	3300.0	90	13656	No
GOM_TRA_1PNPDE20041010_024914_000000512031_00075_13656_0015.N1	10-OCT-2004 02:49:14	Bright	51.000	173	4Bet Tri	3.0040	8900.0	102	13656	No
GOM_TRA_1PNPDE20041010_025057_000000492031_00075_13656_0016.N1	10-OCT-2004 02:50:57	Bright	49.000	73	57Gam1And	2.2600	13100.	98	13656	No
GOM_TRA_1PNPDE20041010_025243_000000392031_00075_13656_0017.N1	10-OCT-2004 02:52:43	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	13656	No
GOM_TRA_1PNPDE20041010_025412_000000402031_00075_13656_0018.N1	10-OCT-2004 02:54:12	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	13656	No
GOM_TRA_1PNPDE20041010_025625_000000482031_00075_13656_0019.N1	10-OCT-2004 02:56:25	Bright	48.000	160	23Gam Per	2.9300	4700.0	96	13656	No
GOM_TRA_1PNPDE20041010_030345_000000412031_00075_13656_0000.N1	10-OCT-2004 03:03:45	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	13656	No
GOM_TRA_1PNPDE20041010_030629_000000822031_00075_13656_0001.N1	10-OCT-2004 03:06:29	Bright	81.500	6	13Alp Aur	0.080000	3400.0	163	13656	No
GOM_TRA_1PNPDE20041010_030914_000000392031_00075_13656_0002.N1	10-OCT-2004 03:09:14	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	13656	No
GOM_TRA_1PNPDE20041010_031045_000000392031_00075_13656_0003.N1	10-OCT-2004 03:10:45	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	13656	No
GOM_TRA_1PNPDE20041010_031406_000000392031_00075_13656_0004.N1	10-OCT-2004 03:14:06	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	13656	No
GOM_TRA_1PNPDE20041010_032125_000000792031_00075_13656_0005.N1	10-OCT-2004 03:21:25	Bright	78.500	17	78Bet Gem	1.1610	4500.0	157	13656	No
GOM_TRA_1PNPDE20041010_032404_000000432031_00075_13656_0006.N1	10-OCT-2004 03:24:04	Twilight	42.500	22	32Alp Leo	1.3600	15200.	85	13656	No
GOM_TRA_1PNPDE20041010_033103_000000552031_00075_13656_0007.N1	10-OCT-2004 03:31:03	Twilight	54.500	48	30Alp Hya	1.9770	4100.0	109	13656	No
GOM_TRA_1PNPDE20041010_033310_000001112031_00075_13656_0008.N1	10-OCT-2004 03:33:10	Dark	111.00	8	10Alp CMI	0.40000	6500.0	222	13656	No

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



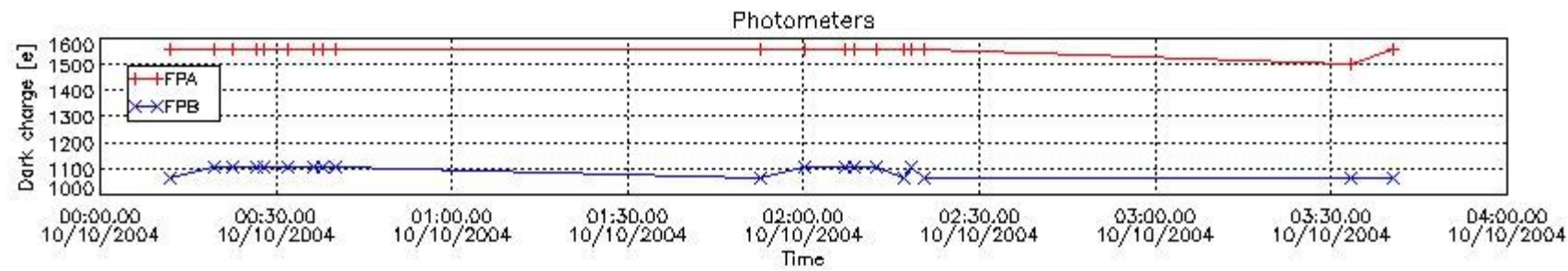
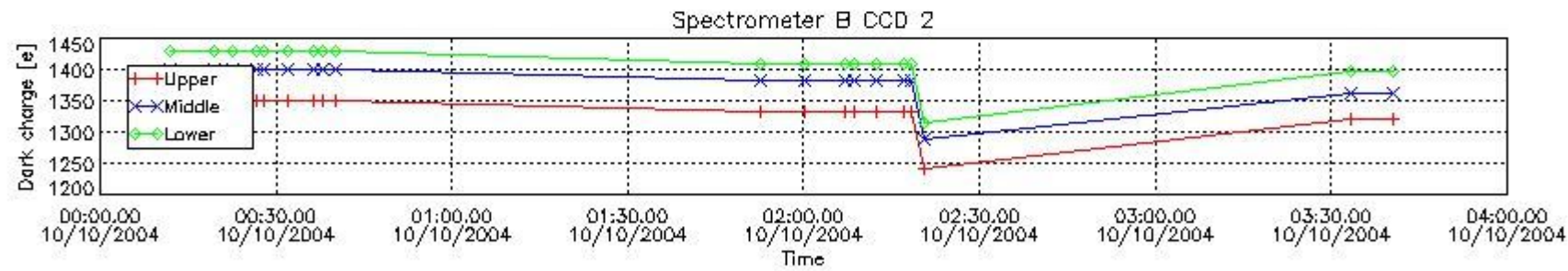
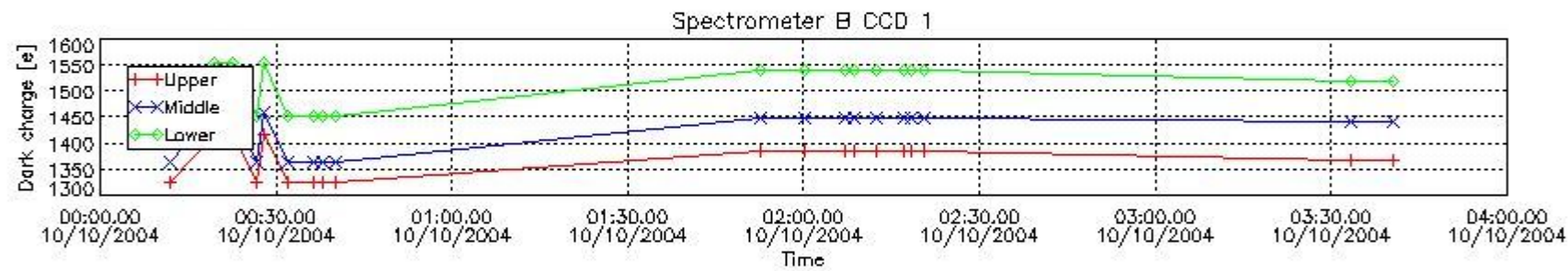
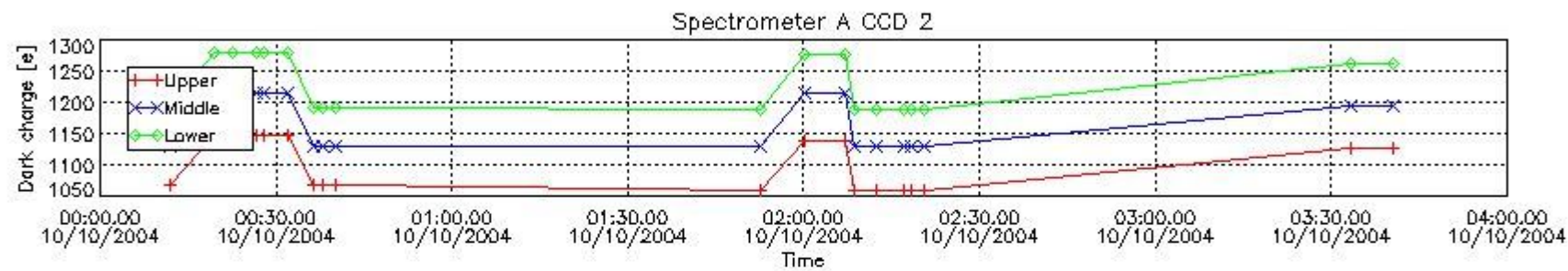
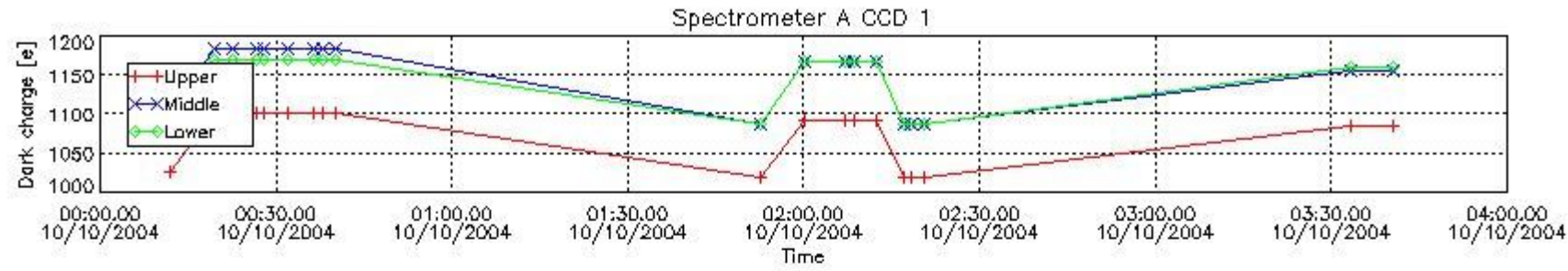
4. Overview of dark signal processing per product

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



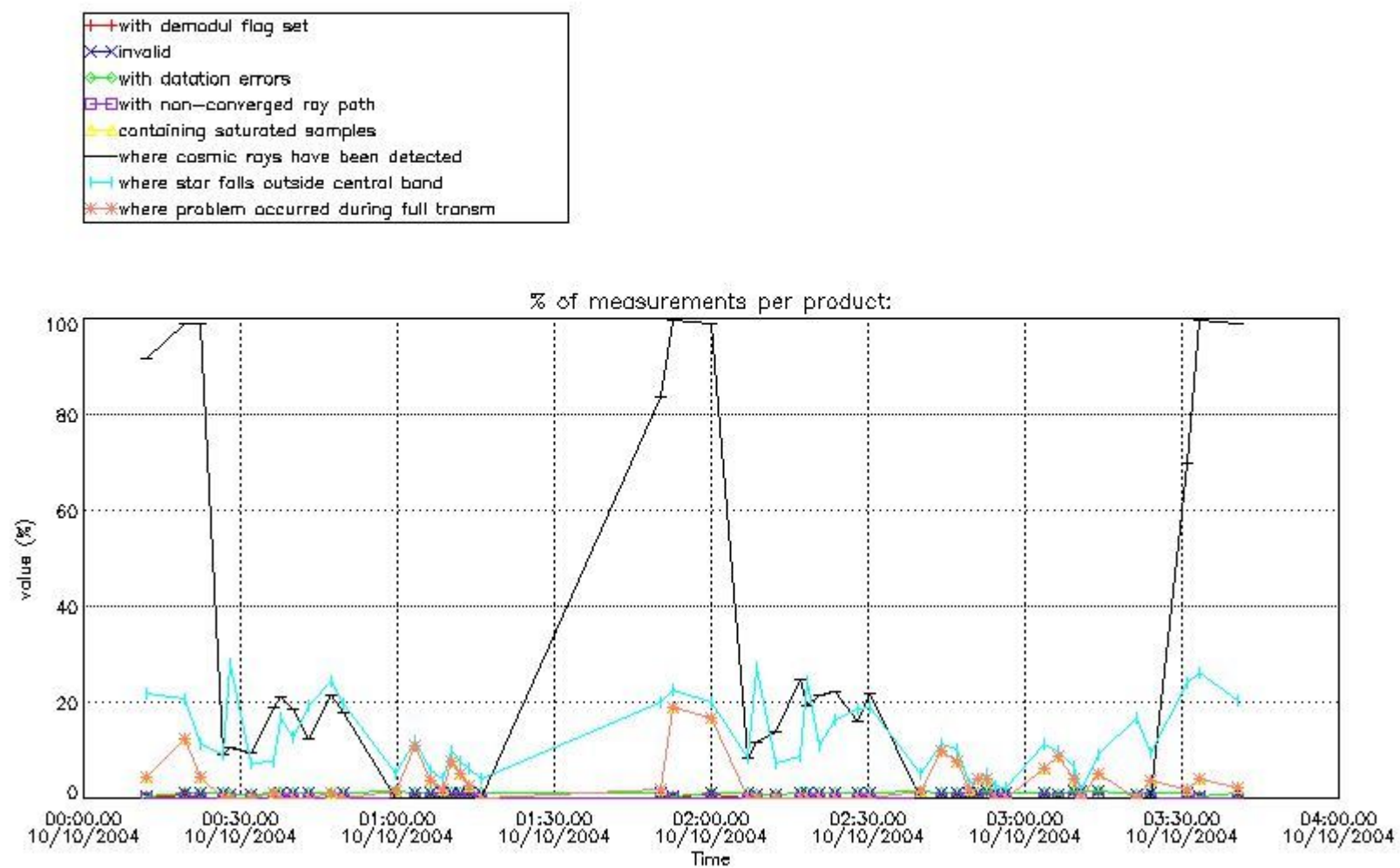
5. Demodulation flag and quality information monitoring

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.

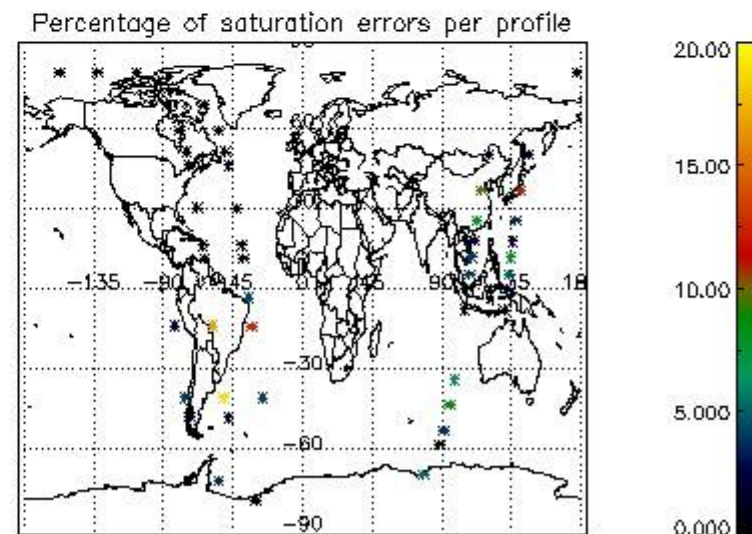
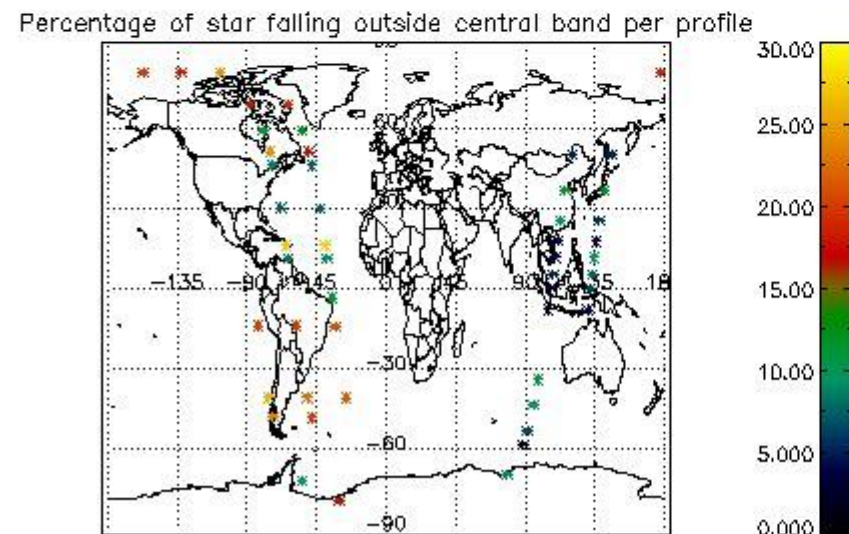
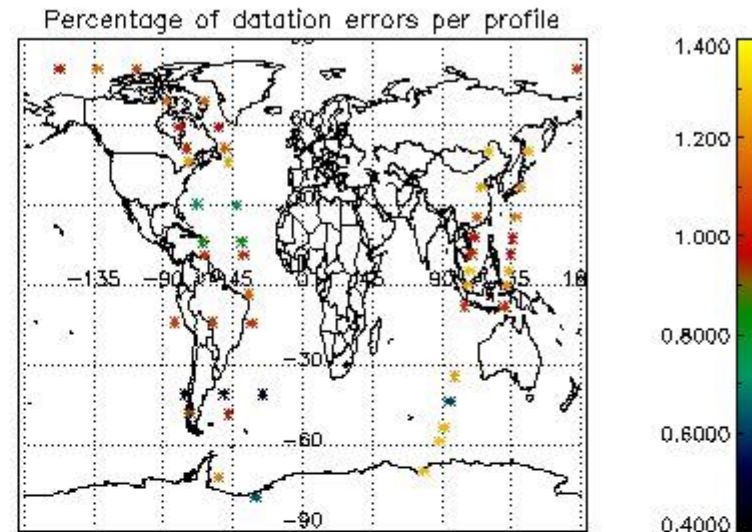
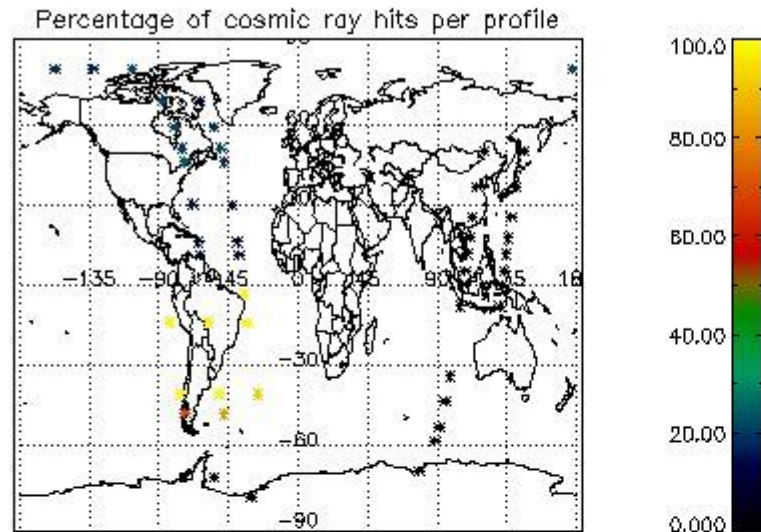
5.1 Percentage of products during reporting period with:

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)



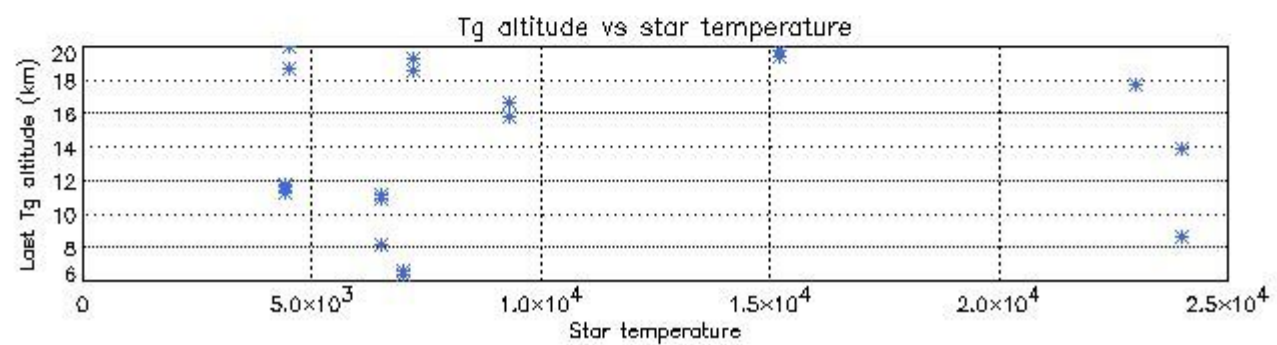
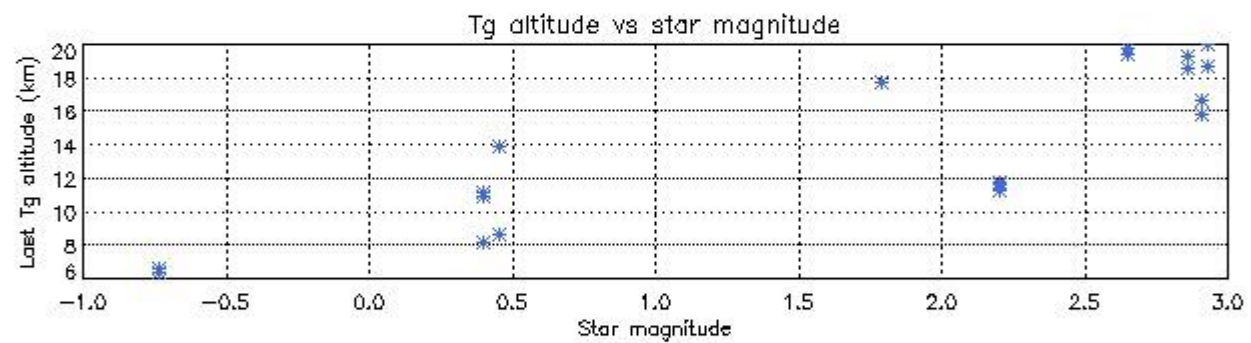
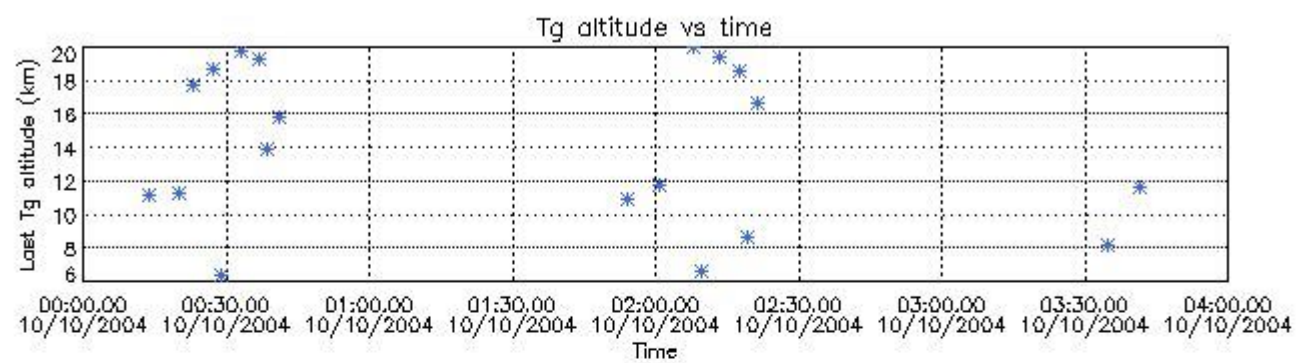
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.002	19.088	12.831
St. deviation:	4.7337	4.5658	3.2829
Maximum:	19.951	25.345	17.551
Minimum:	6.3983	9.6350	9.0308
Number of data:	19.000	26.000	5.0000

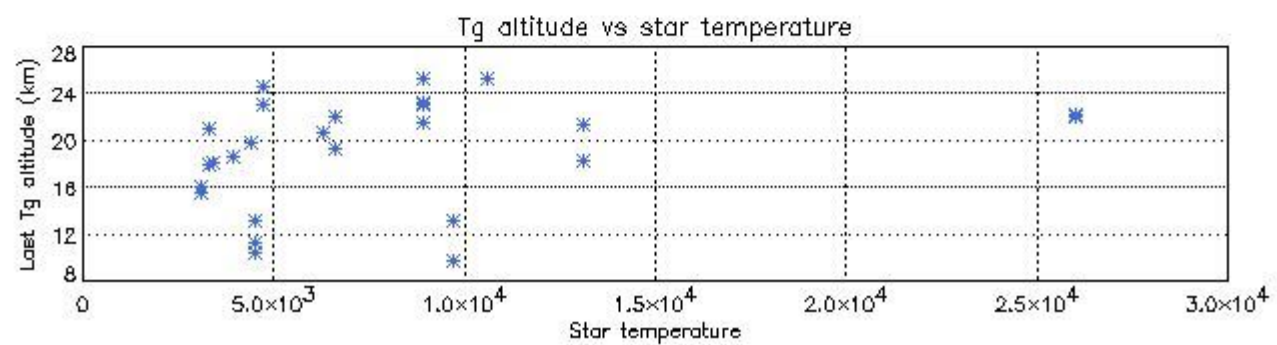
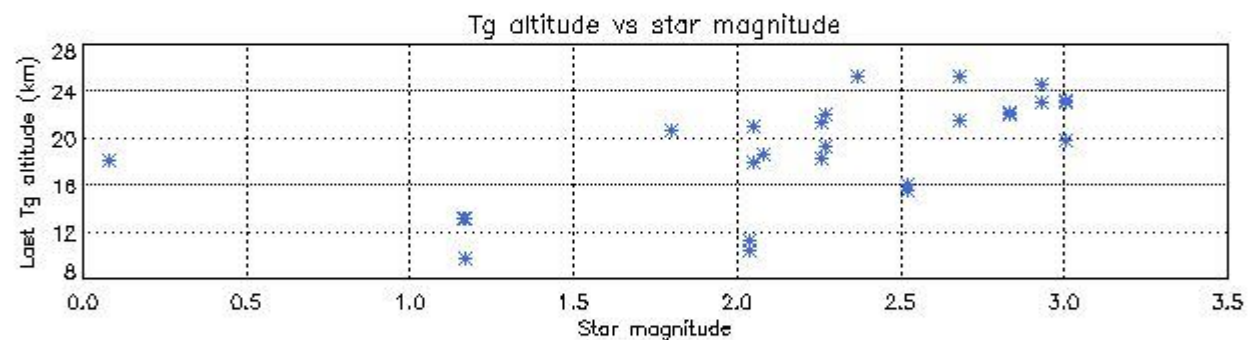
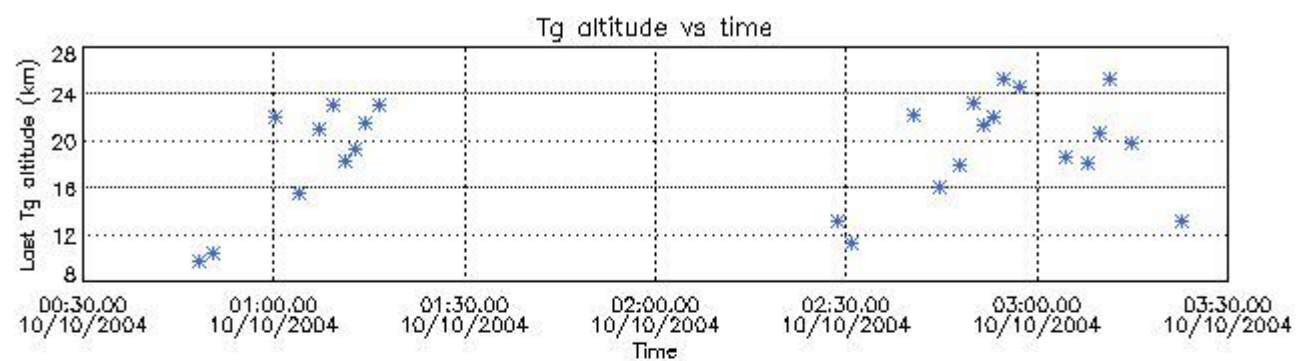
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



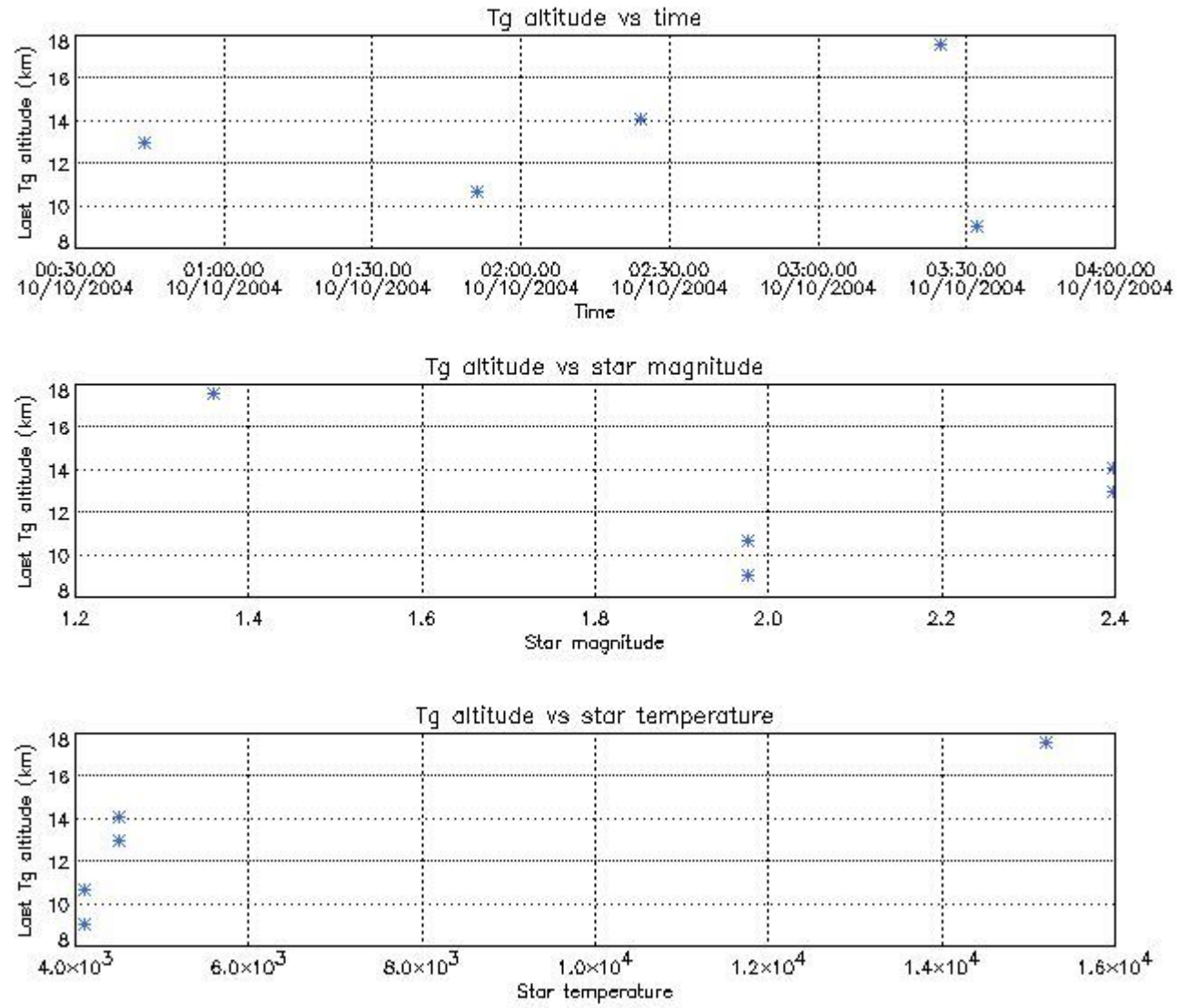
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

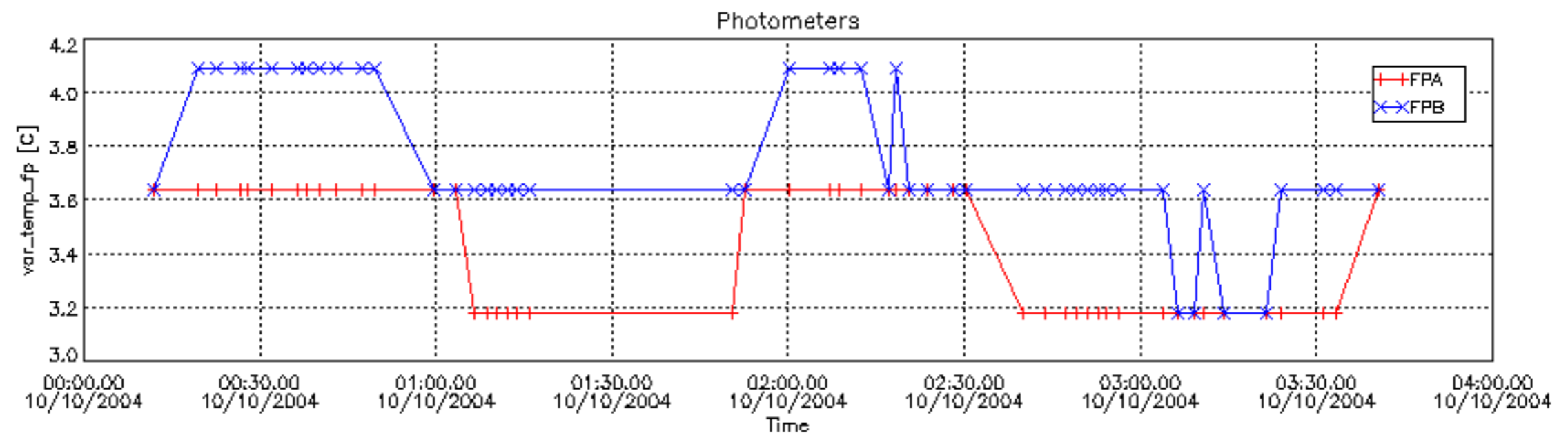
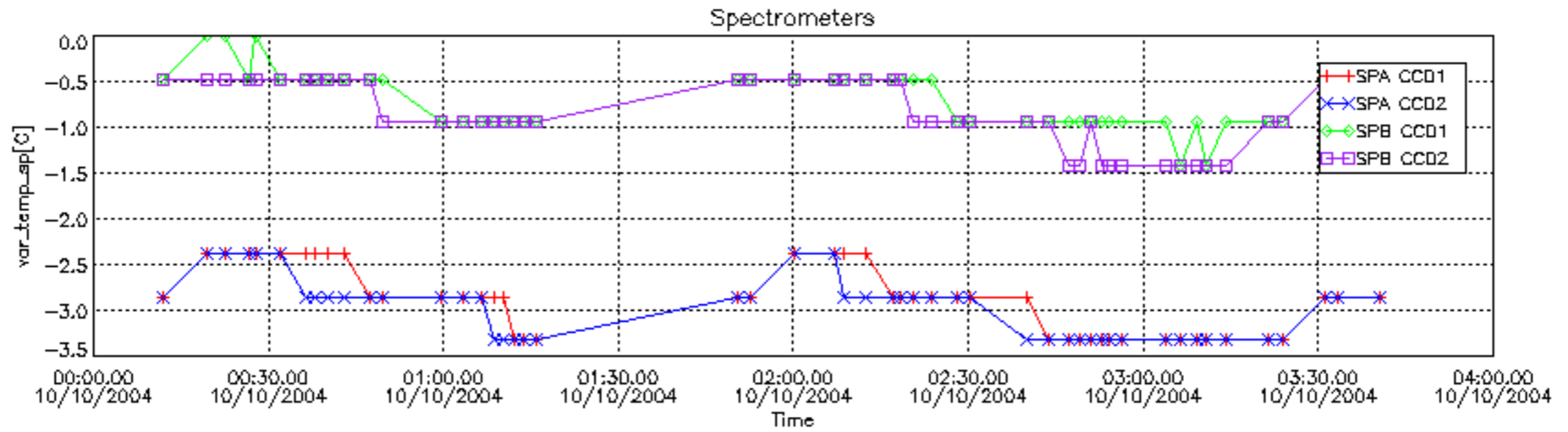
Tangent altitude at which the star is lost

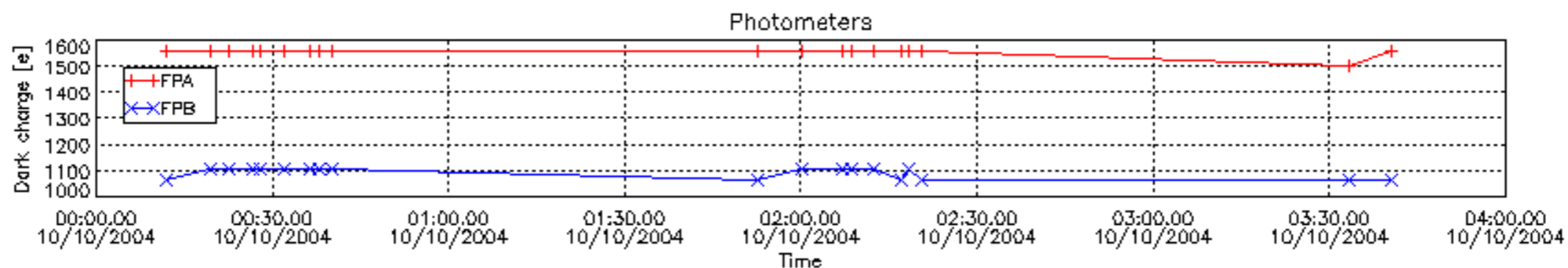
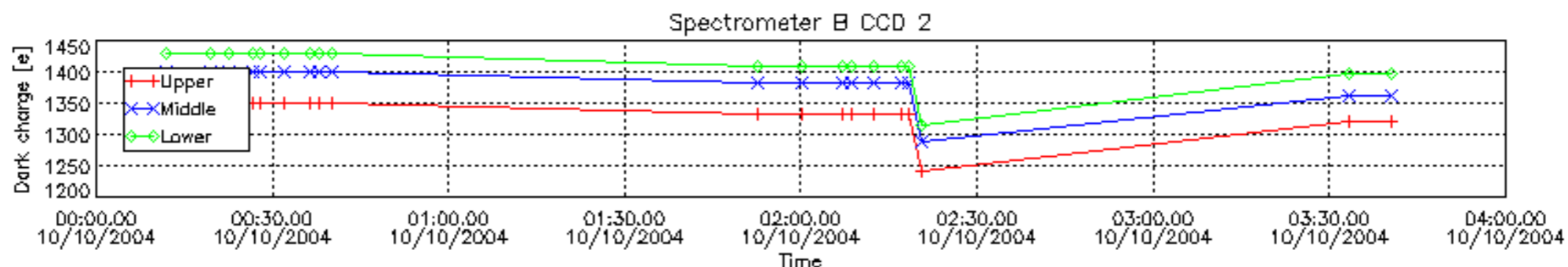
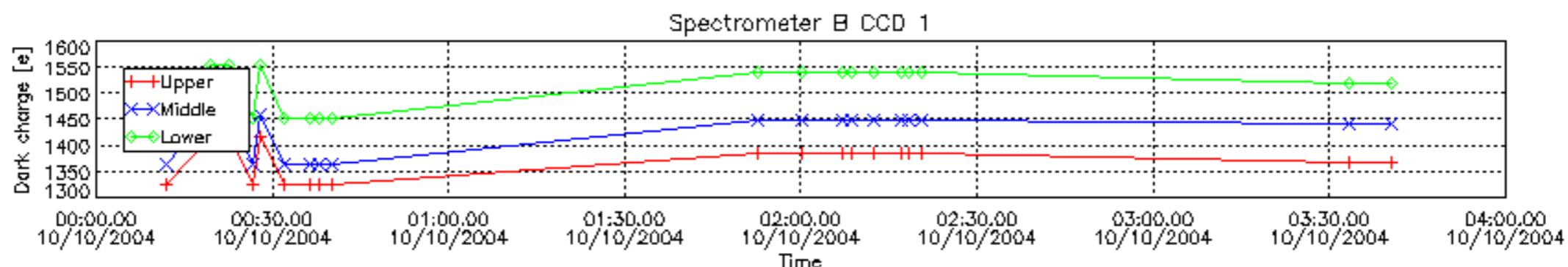
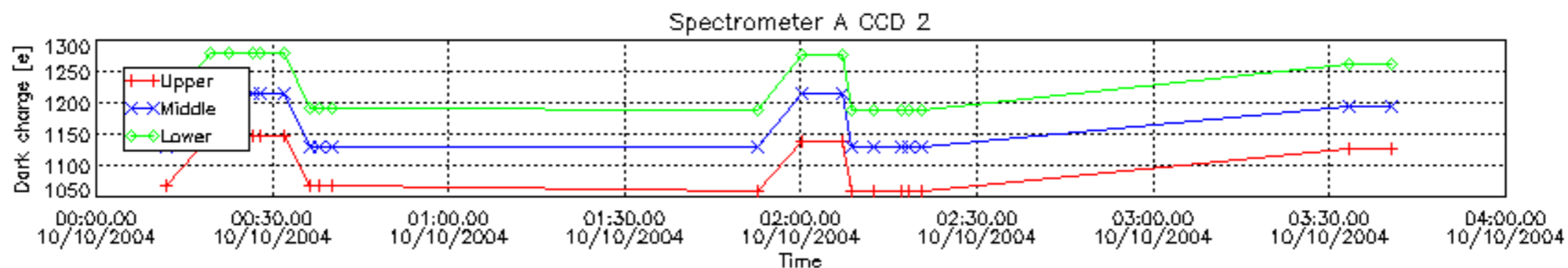
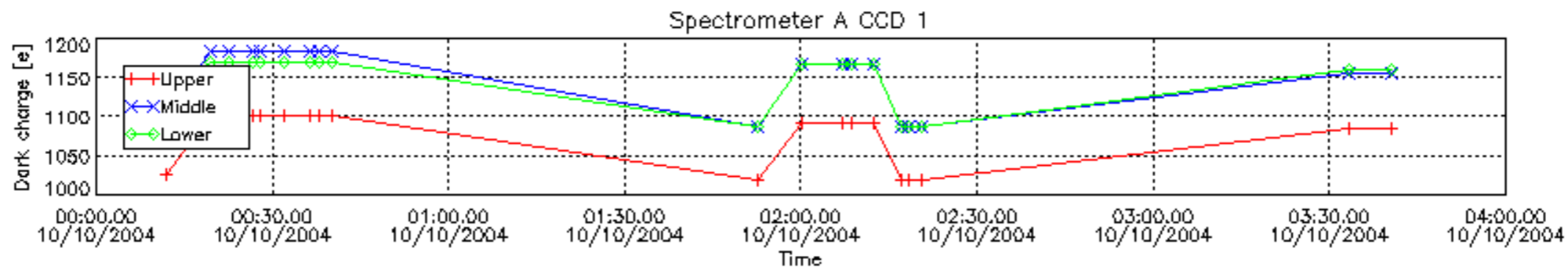


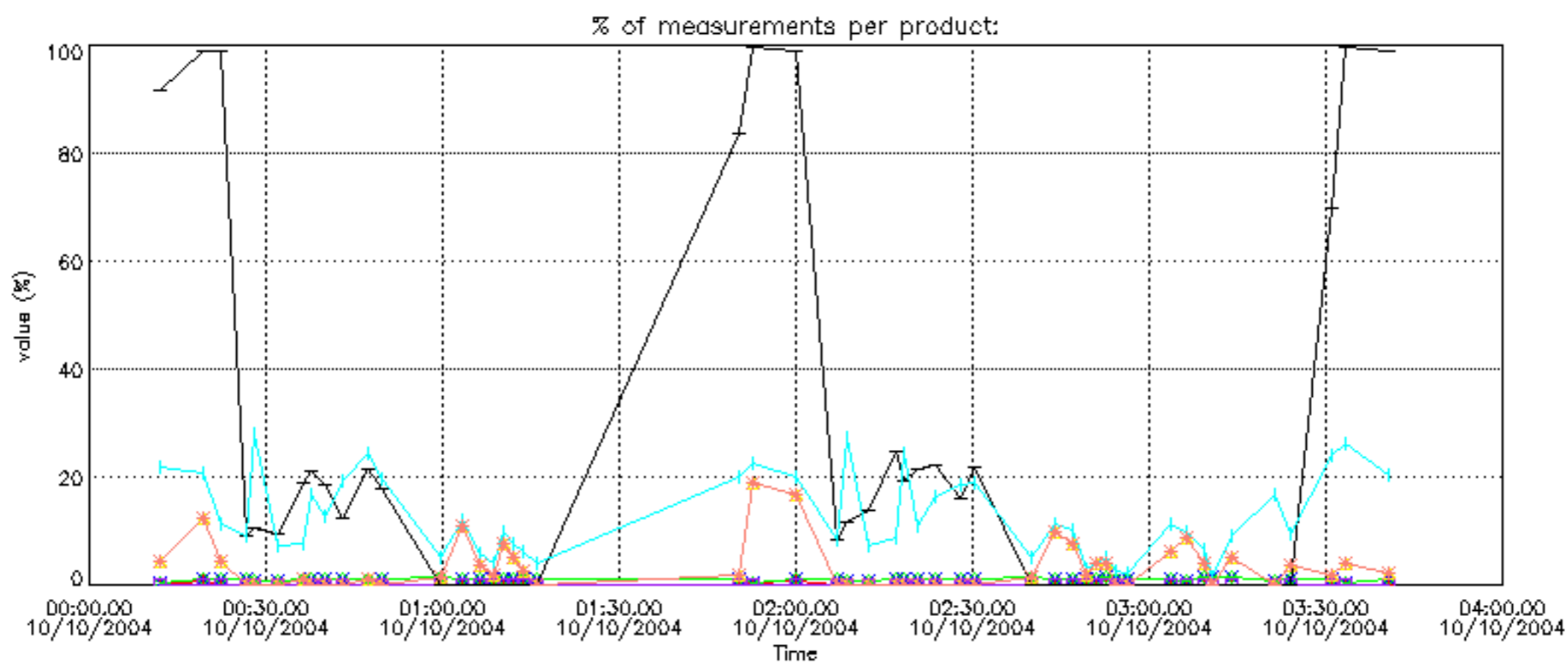
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

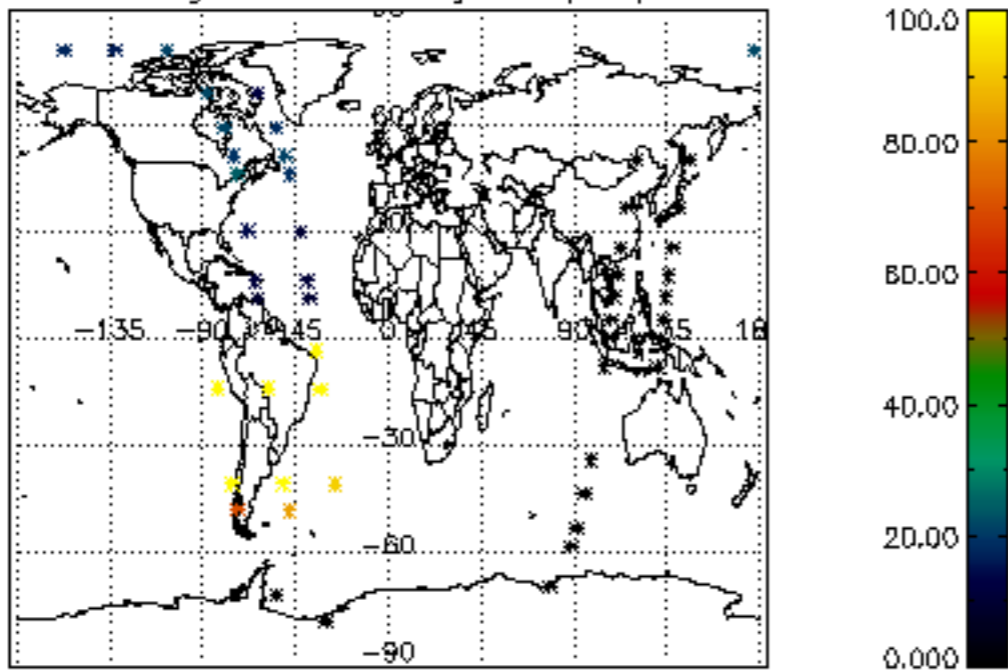
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.4	1447.5	1461.8	1447.4
St. deviation:	4.9212	5.7468	6.6337	7.4184
Maximum:	1590.0	1512.0	1524.0	1500.0
Minimum:	1452.0	1428.0	1452.0	1433.0
Number of data:	28800.	28800.	31600.	31600.



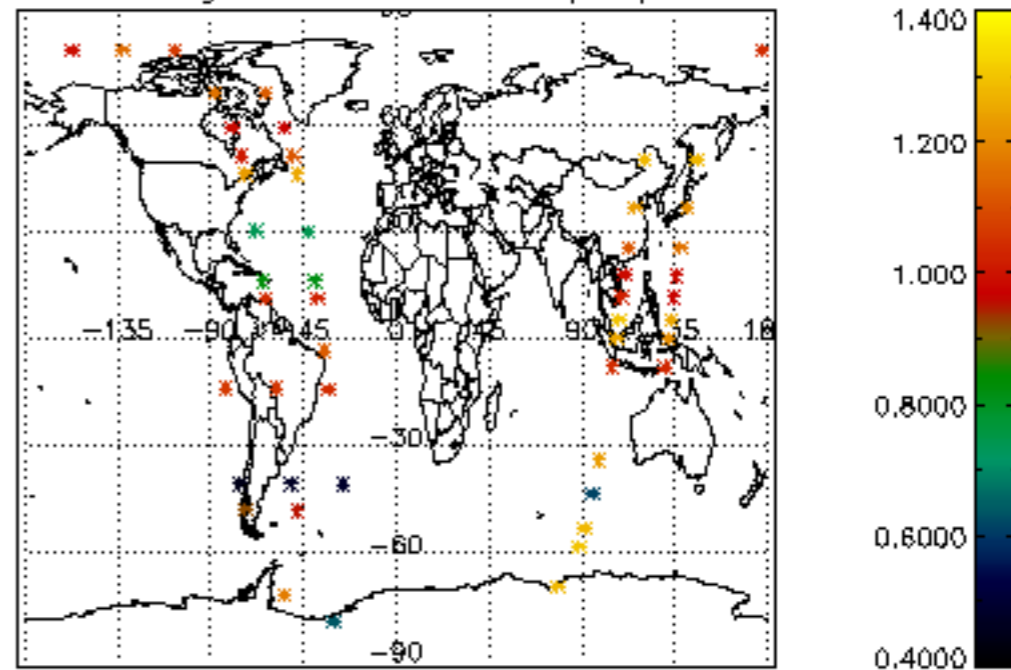




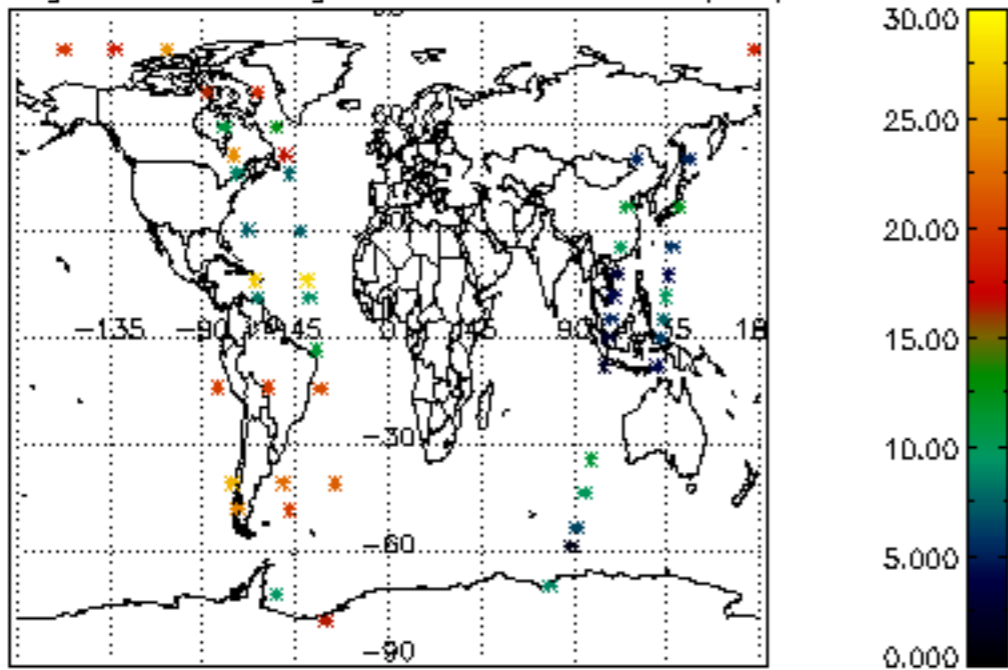
Percentage of cosmic ray hits per profile



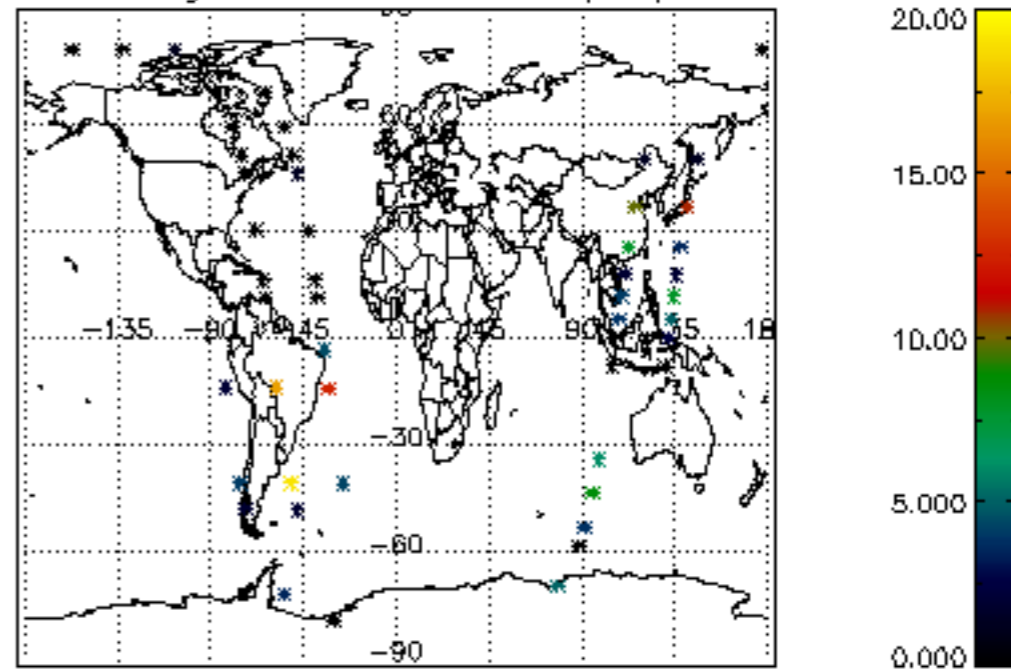
Percentage of datation errors per profile



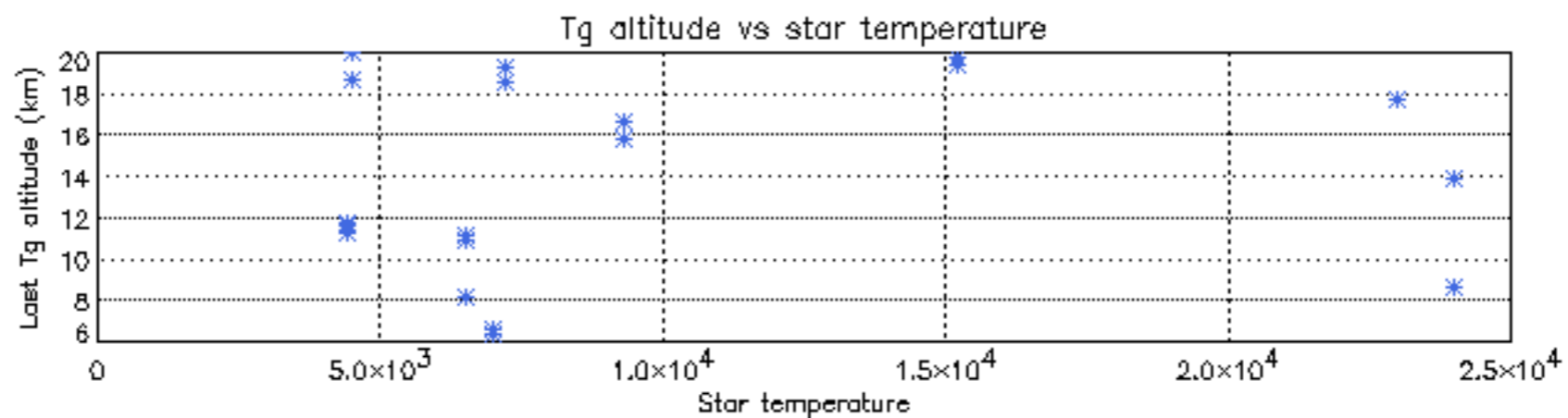
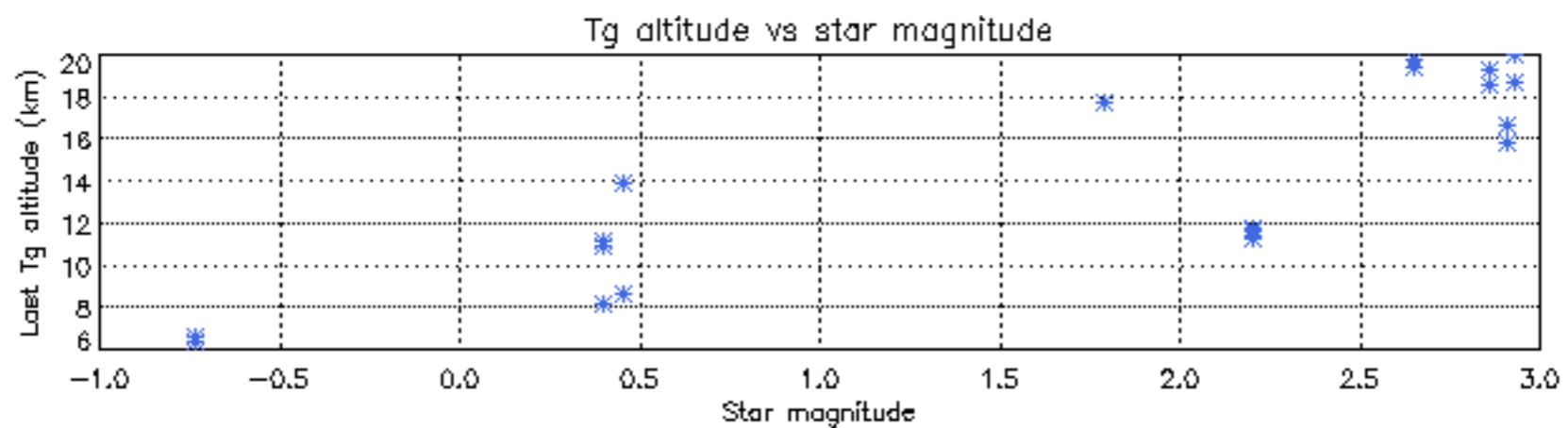
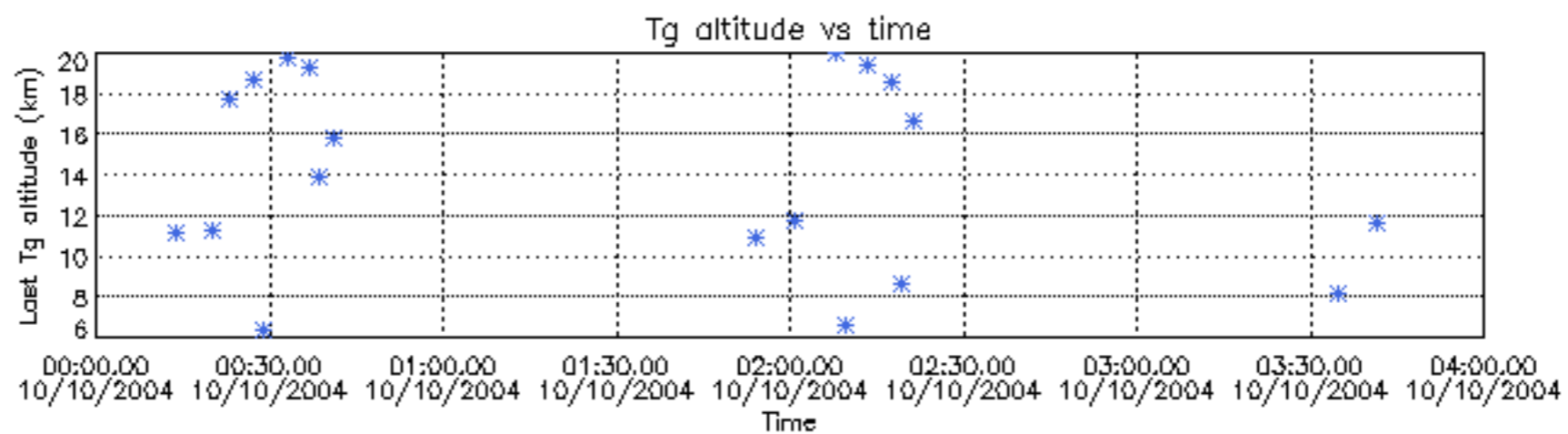
Percentage of star falling outside central band per profile



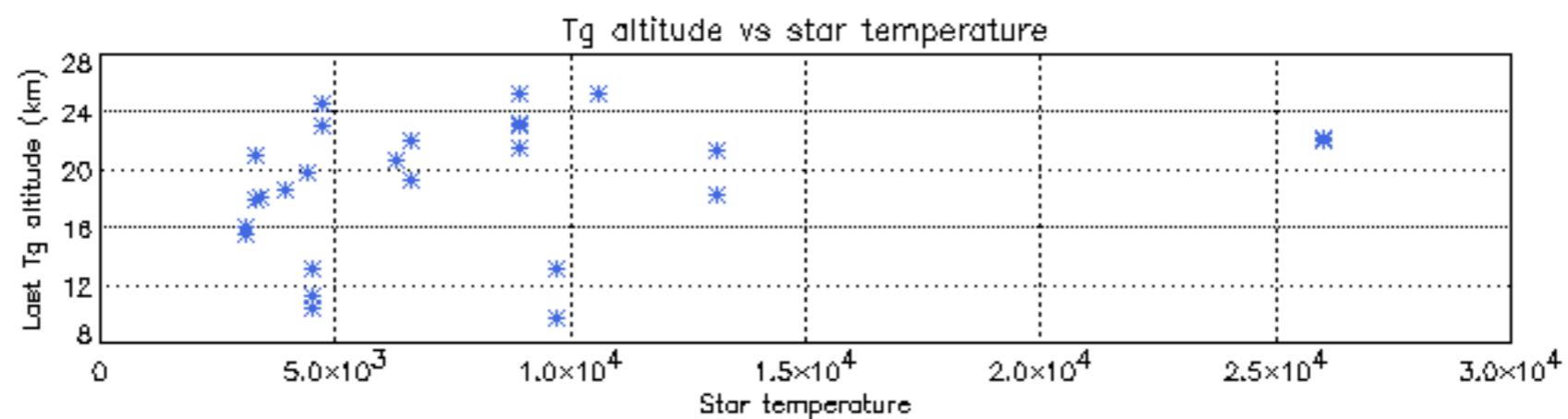
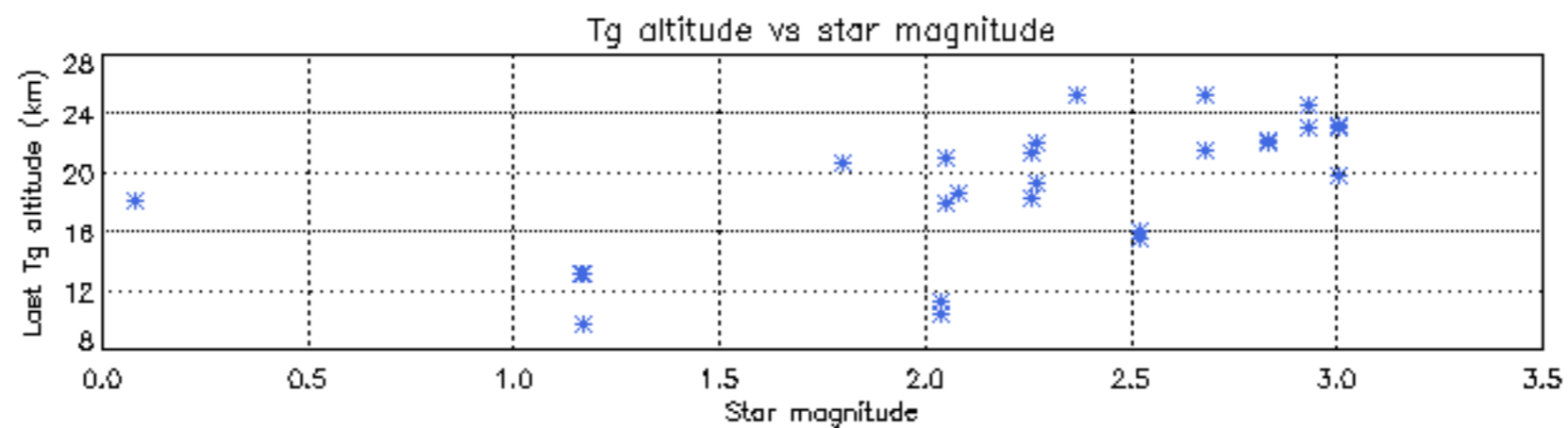
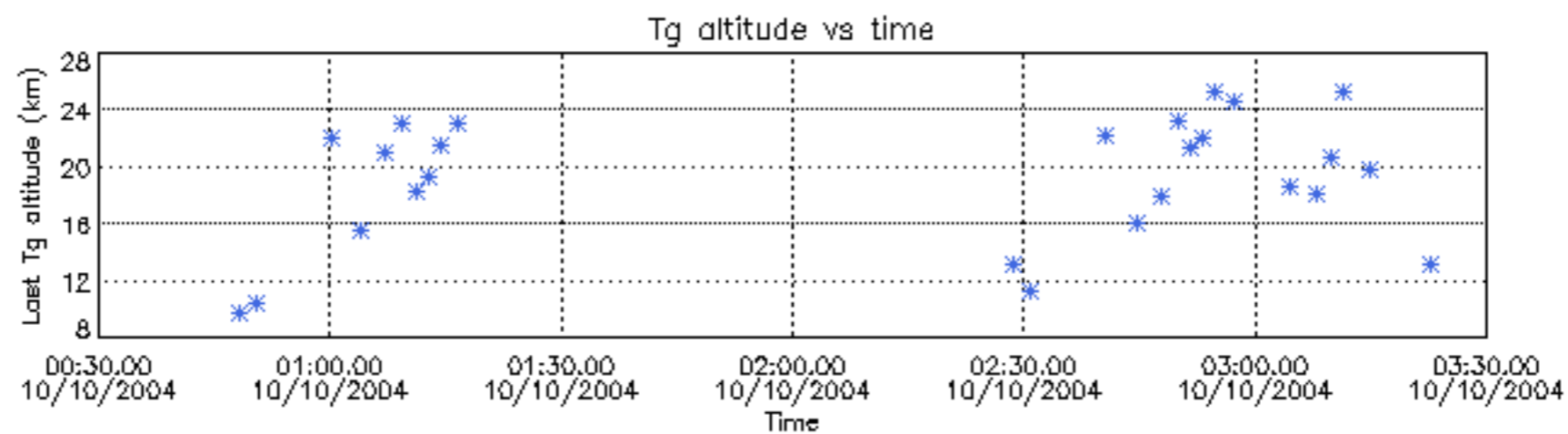
Percentage of saturation errors per profile



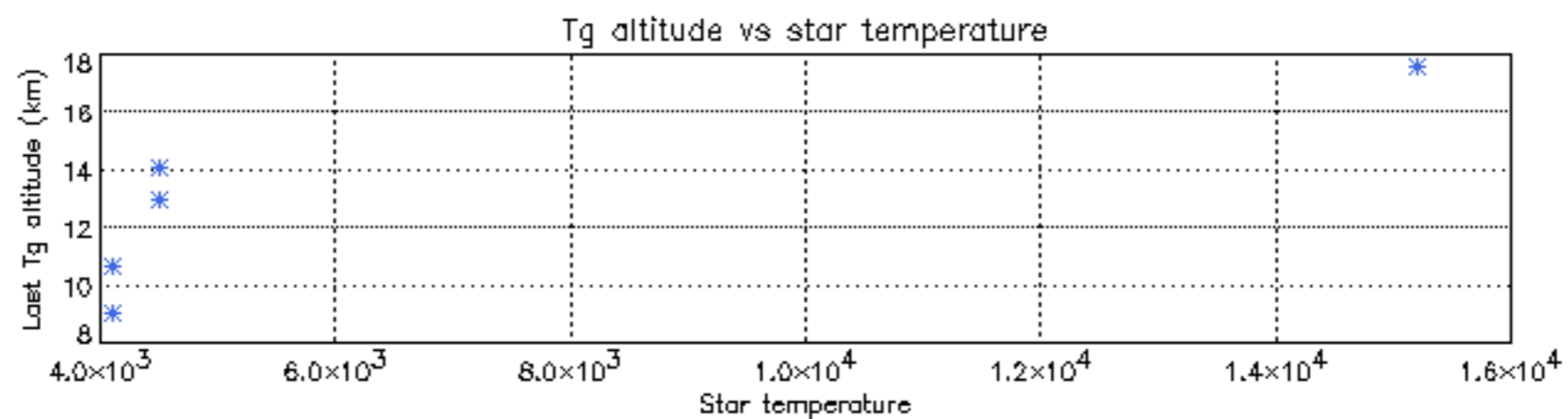
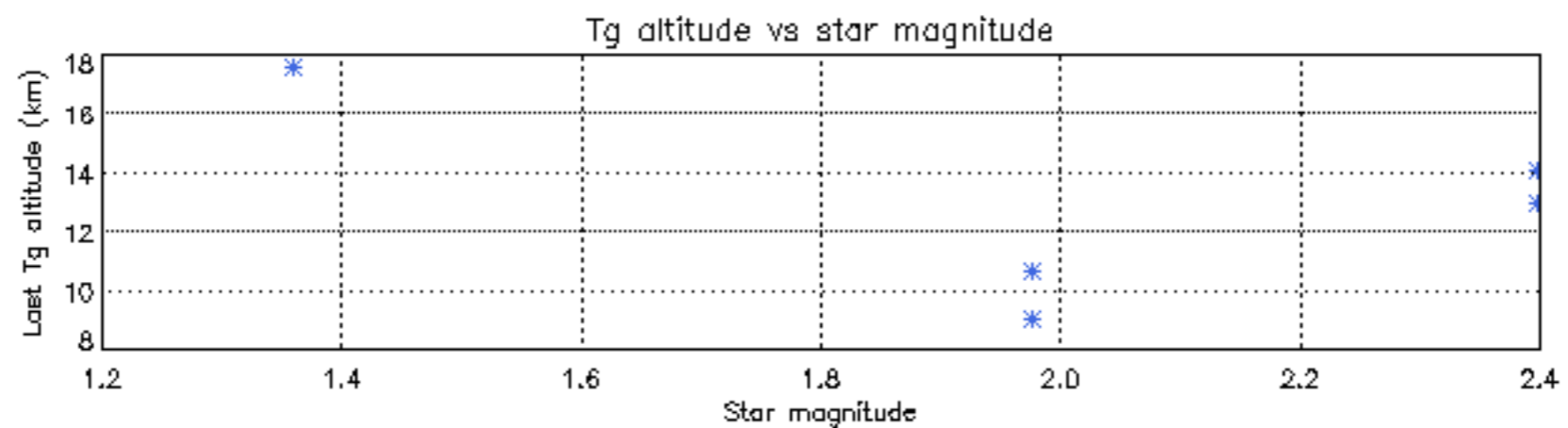
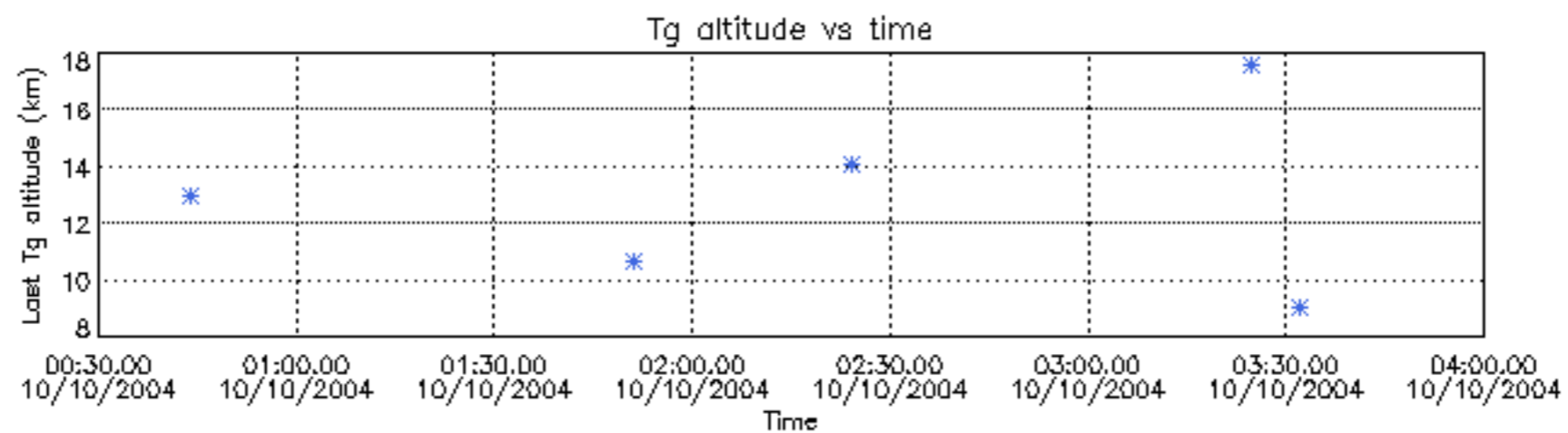
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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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
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 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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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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 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
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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
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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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12; 1144.4; 01-OCT-2004 23:53:35; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;13540
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 2;-2036.8; 04-OCT-2004 04:39:44; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;13571
 3;-1841.6; 04-OCT-2004 04:43:00; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;13571
 4;-1722.5; 04-OCT-2004 04:44:59; Bright; 105.0; 107; 37The Aur ; 2.65; 11000;occ; 210; 0;13571
 5;-1516.5; 04-OCT-2004 04:48:25; Bright; 63.0; 24; 66Alp Gem ; 1.58; 10200;occ; 126; 0;13571
 6;-1188.3; 04-OCT-2004 04:53:53; Dark ; 126.5; 170; 27Eps Gem ; 3.00; 9700;occ; 253; 0;13571
 7; -816.5; 04-OCT-2004 05:00:05; Dark ; 78.5; 8; 10Alp CMi ; 0.40; 6500;occ; 157; 0;13571
 8; -682.8; 04-OCT-2004 05:02:19; Dark ; 255.0; 44; 24Gam Gem ; 1.93; 11000;occ; 510; 0;13571
 9; -275.5; 04-OCT-2004 05:09:06; Dark ; 51.5; 65; Lam Vel ; 2.20; 4400;occ; 103; 0;13571
 10; -186.6; 04-OCT-2004 05:10:35; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;13571
 11; -79.4; 04-OCT-2004 05:12:22; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;13571
 12; -3.6; 04-OCT-2004 05:13:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13571
 13; 122.6; 04-OCT-2004 05:15:44; Dark ; 46.5; 161; Tau Pup ; 2.93; 4500;occ; 93; 0;13572
 14; 207.6; 04-OCT-2004 05:17:09; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;13572
 15; 379.5; 04-OCT-2004 05:20:01; Dark ; 66.0; 108; Alp Col ; 2.65; 15200;occ; 132; 0;13572
 16; 608.4; 04-OCT-2004 05:23:50; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13572
 17; 748.9; 04-OCT-2004 05:26:10; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13572
 18; 836.7; 04-OCT-2004 05:27:38; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;13572
 19; 948.2; 04-OCT-2004 05:29:30; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;13572
 20; 1153.6; 04-OCT-2004 05:32:55; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;13572
 21; 1428.0; 04-OCT-2004 05:37:29; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;13572
 22; 1562.9; 04-OCT-2004 05:39:44; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;13572
 23; 1776.6; 04-OCT-2004 05:43:18; Bright; 200.0; 165; 34Gam Eri ; 2.95; 3200;occ; 400; 0;13572
 24; 2170.0; 04-OCT-2004 05:49:51; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;13572
 25; 2386.2; 04-OCT-2004 05:53:27; Bright; 36.5; 93; 53Bet Peg ; 2.52; 3100;occ; 73; 0;13572
 26; 2626.5; 04-OCT-2004 05:57:28; Bright; 44.5; 53; 43Bet And ; 2.05; 3300;occ; 89; 0;13572
 27; 2799.0; 04-OCT-2004 06:00:20; Bright; 58.0; 173; 4Bet Tri ; 3.00; 8900;occ; 116; 0;13572
 28; 2926.3; 04-OCT-2004 06:02:28; Bright; 42.0; 68; 18Alp Cas ; 2.22; 4500;occ; 84; 0;13572
 29; 3011.8; 04-OCT-2004 06:03:53; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;13572
 30; 3220.5; 04-OCT-2004 06:07:22; Bright; 52.5; 160; 23Gam Per ; 2.93; 4700;occ; 105; 0;13572
 31; 3426.5; 04-OCT-2004 06:10:48; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13572
 32; 3563.7; 04-OCT-2004 06:13:05; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13572

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 5;-3415.5; 04-OCT-2004 14:20:21; Bright; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 0;13577
 6;-3241.6; 04-OCT-2004 14:23:15; Bright; 56.0; 173; 4Bet Tri ; 3.00; 8900;occ; 112; 0;13577
 7;-3112.0; 04-OCT-2004 14:25:25; Bright; 42.5; 68; 18Alp Cas ; 2.22; 4500;occ; 85; 0;13577
 8;-3026.2; 04-OCT-2004 14:26:51; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;13577
 9;-2819.8; 04-OCT-2004 14:30:17; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;13577
 10;-2610.3; 04-OCT-2004 14:33:47; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;13577
 11;-2473.6; 04-OCT-2004 14:36:03; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;13577
 12;-2126.6; 04-OCT-2004 14:41:50; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;13577
 13;-2035.9; 04-OCT-2004 14:43:21; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;13577
 14;-1843.1; 04-OCT-2004 14:46:34; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;13577
 15;-1724.7; 04-OCT-2004 14:48:32; Bright; 108.5; 107; 37The Aur ; 2.65; 11000;occ; 217; 0;13577
 16;-1515.0; 04-OCT-2004 14:52:02; Bright; 66.0; 24; 66Alp Gem ; 1.58; 10200;occ; 132; 0;13577
 17;-1179.8; 04-OCT-2004 14:57:37; Dark ; 134.0; 170; 27Eps Gem ; 3.00; 9700;occ; 268; 0;13577
 18; -808.7; 04-OCT-2004 15:03:48; Dark ; 81.0; 8; 10Alp CMi ; 0.40; 6500;occ; 162; 0;13577
 19; -652.0; 04-OCT-2004 15:06:25; Dark ; 255.0; 44; 24Gam Gem ; 1.93; 11000;occ; 510; 0;13577
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 21; -180.7; 04-OCT-2004 15:14:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13577
 22; -63.9; 04-OCT-2004 15:16:13; Dark ; 90.0; 1; 9Alp CMa ;-1.44; 11000;occ; 180; 0;13577
 23; 127.3; 04-OCT-2004 15:19:24; Dark ; 48.0; 161; Tau Pup ; 2.93; 4500;occ; 96; 0;13578
 24; 211.9; 04-OCT-2004 15:20:49; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;13578
 25; 389.2; 04-OCT-2004 15:23:46; Dark ; 65.0; 108; Alp Col ; 2.65; 15200;occ; 130; 0;13578
 26; 608.9; 04-OCT-2004 15:27:26; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13578
 27; 750.8; 04-OCT-2004 15:29:48; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13578
 28; 838.9; 04-OCT-2004 15:31:16; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;13578
 29; 949.8; 04-OCT-2004 15:33:07; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;13578
 30; 1154.5; 04-OCT-2004 15:36:31; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;13578

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7;-3242.6; 04-OCT-2004 16:03:50; Bright; 57.5; 173; 4Bet Tri ; 3.00; 8900;occ; 115; 0;13578
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13;-2126.6; 04-OCT-2004 16:22:26; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13578
14;-2035.9; 04-OCT-2004 16:23:57; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;13578
15;-1841.1; 04-OCT-2004 16:27:12; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;13578
16;-1725.4; 04-OCT-2004 16:29:08; Bright; 99.0; 107; 37The Aur ; 2.65; 11000;occ; 198; 0;13578
17;-1514.8; 04-OCT-2004 16:32:38; Bright; 64.0; 24; 66Alp Gem ; 1.58; 10200;occ; 128; 0;13578
18;-1178.8; 04-OCT-2004 16:38:14; Dark ; 138.5; 170; 27Eps Gem ; 3.00; 9700;occ; 277; 0;13578
19; -807.8; 04-OCT-2004 16:44:25; Dark ; 79.5; 8; 10Alp CMi ; 0.40; 6500;occ; 159; 0;13578
20; -646.9; 04-OCT-2004 16:47:06; Dark ; 255.0; 44; 24Gam Gem ; 1.93; 11000;occ; 510; 0;13578
21; -272.8; 04-OCT-2004 16:53:20; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;13578
22; -180.3; 04-OCT-2004 16:54:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13578
23; -62.1; 04-OCT-2004 16:56:51; Dark ; 90.5; 1; 9Alp CMa ; -1.44; 11000;occ; 181; 0;13578
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3; 391.9; 04-OCT-2004 18:45:01; Dark ; 66.5; 108; Alp Col ; 2.65; 15200;occ; 133; 0;13580
4; 608.4; 04-OCT-2004 18:48:37; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13580
5; 751.1; 04-OCT-2004 18:51:00; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;13580
6; 839.2; 04-OCT-2004 18:52:28; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;13580
7; 953.0; 04-OCT-2004 18:54:22; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13580
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2;-4607.4; 04-OCT-2004 19:02:18; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;13580
3;-4472.7; 04-OCT-2004 19:04:32; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;13580
4;-4275.1; 04-OCT-2004 19:07:50; Bright; 216.0; 165; 34Gam Eri ; 2.95; 3200;occ; 432; 0;13580
5;-3865.8; 04-OCT-2004 19:14:39; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;13580
6;-3652.4; 04-OCT-2004 19:18:13; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;13580
7;-3415.6; 04-OCT-2004 19:22:09; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;13580
8;-3245.2; 04-OCT-2004 19:25:00; Bright; 57.5; 173; 4Bet Tri ; 3.00; 8900;occ; 115; 0;13580
9;-2823.4; 04-OCT-2004 19:32:02; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;13580
10;-2610.0; 04-OCT-2004 19:35:35; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;13580
11;-2470.6; 04-OCT-2004 19:37:54; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13580
12;-2127.5; 04-OCT-2004 19:43:37; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;13580
13;-2035.6; 04-OCT-2004 19:45:09; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;13580
14;-1840.8; 04-OCT-2004 19:48:24; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;13580
15;-1726.5; 04-OCT-2004 19:50:18; Bright; 104.0; 107; 37The Aur ; 2.65; 11000;occ; 208; 0;13580
16;-1514.6; 04-OCT-2004 19:53:50; Bright; 64.0; 24; 66Alp Gem ; 1.58; 10200;occ; 128; 0;13580
17;-1176.0; 04-OCT-2004 19:59:29; Dark ; 144.5; 170; 27Eps Gem ; 3.00; 9700;occ; 289; 0;13580
18; -804.9; 04-OCT-2004 20:05:40; Dark ; 93.0; 8; 10Alp CMi ; 0.40; 6500;occ; 186; 0;13580
19; -635.5; 04-OCT-2004 20:08:29; Dark ; 255.0; 44; 24Gam Gem ; 1.93; 11000;occ; 510; 0;13580
20; -271.9; 04-OCT-2004 20:14:33; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;13580
21; -180.1; 04-OCT-2004 20:16:05; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;13580
22; 3.4; 04-OCT-2004 20:19:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13581
23; 214.5; 04-OCT-2004 20:22:39; Dark ; 60.5; 2; Alp Car ; -0.74; 7000;occ; 121; 0;13581
24; 393.4; 04-OCT-2004 20:25:38; Dark ; 67.5; 108; Alp Col ; 2.65; 15200;occ; 135; 0;13581
25; 608.9; 04-OCT-2004 20:29:14; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13581
26; 752.0; 04-OCT-2004 20:31:37; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13581
27; 840.2; 04-OCT-2004 20:33:05; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;13581
28; 953.6; 04-OCT-2004 20:34:59; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;13581
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2; -629.4; 04-OCT-2004 21:49:11; Dark ; 255.0; 44; 24Gam Gem ; 1.93; 11000;occ; 510; 0;13581
3; -271.4; 04-OCT-2004 21:55:09; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;13581
4; -179.3; 04-OCT-2004 21:56:42; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;13581
5; 4.3; 04-OCT-2004 21:59:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13582
6; 215.3; 04-OCT-2004 22:03:16; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;13582
7; 395.0; 04-OCT-2004 22:06:16; Dark ; 63.0; 108; Alp Col ; 2.65; 15200;occ; 126; 0;13582
8; 609.3; 04-OCT-2004 22:09:50; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;13582
9; 752.4; 04-OCT-2004 22:12:13; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13582
10; 840.6; 04-OCT-2004 22:13:41; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;13582

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2;	-617.0;	05-OCT-2004	01:10:36;	Dark	;	255.0;	44;	24Gam Gem	;	1.93;	11000;occ;	510;	0;	13583
3;	-271.3;	05-OCT-2004	01:16:21;	Dark	;	47.0;	65;	Lam Vel	;	2.20;	4400;occ;	94;	0;	13583
4;	-180.9;	05-OCT-2004	01:17:52;	Dark	;	48.0;	70;	Zet Pup	;	2.25;	39000;occ;	96;	0;	13583
5;	5.9;	05-OCT-2004	01:20:58;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13584
6;	216.6;	05-OCT-2004	01:24:29;	Dark	;	61.0;	2;	Alp Car	;	-0.74;	7000;occ;	122;	0;	13584
7;	398.3;	05-OCT-2004	01:27:31;	Dark	;	65.5;	108;	Alp Col	;	2.65;	15200;occ;	131;	0;	13584
8;	609.3;	05-OCT-2004	01:31:02;	Dark	;	41.0;	135;	Bet Hyi	;	2.82;	5800;occ;	82;	0;	13584
9;	752.5;	05-OCT-2004	01:33:25;	Dark	;	41.0;	143;	Alp Hyi	;	2.86;	7200;occ;	82;	0;	13584
10;	841.3;	05-OCT-2004	01:34:54;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;	13584
11;	955.7;	05-OCT-2004	01:36:48;	Dark	;	53.0;	157;	The1Eri	;	2.91;	9300;occ;	106;	0;	13584
12;	1155.4;	05-OCT-2004	01:40:08;	Dark	;	45.5;	84;	Alp Phe	;	2.40;	4500;occ;	91;	0;	13584
13;	1429.9;	05-OCT-2004	01:44:43;	Dark	;	45.0;	18;	24Alp PsA	;	1.17;	9700;occ;	90;	0;	13584
14;	1563.3;	05-OCT-2004	01:46:56;	Dark	;	47.5;	52;	16Bet Cet	;	2.04;	4500;occ;	95;	0;	13584
15;	1754.2;	05-OCT-2004	01:50:07;	Bright;	216.0;	165;	34Gam Eri	;	2.95;	3200;occ;	432;	0;	13584	
16;	2170.0;	05-OCT-2004	01:57:03;	Bright;	39.5;	90;	54Alp Peg	;	2.49;	11000;occ;	79;	0;	13584	
17;	2383.9;	05-OCT-2004	02:00:36;	Bright;	41.5;	93;	53Bet Peg	;	2.52;	3100;occ;	83;	0;	13584	
18;	2618.7;	05-OCT-2004	02:04:31;	Bright;	49.0;	53;	43Bet And	;	2.05;	3300;occ;	98;	0;	13584	
19;	2786.6;	05-OCT-2004	02:07:19;	Bright;	55.0;	173;	4Bet Tri	;	3.00;	8900;occ;	110;	0;	13584	
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21;	3425.5;	05-OCT-2004	02:17:58;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	13584	

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1;	-2125.5;	05-OCT-2004	07:27:51;	Bright;	38.0;	36;	50Alp UMA	;	1.80;	6300;occ;	76;	0;	13587	
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3;	-1839.3;	05-OCT-2004	07:32:37;	Bright;	52.0;	174;	52Psi UMA	;	3.00;	4400;occ;	104;	0;	13587	
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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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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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24;	348.8;	31-OCT-2004	19:36:04;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;13967
25;	523.6;	31-OCT-2004	19:38:59;	Dark	;	50.5;	2;	Alp Car	;	-0.74;	7000;occ;	101;	0;13967
26;	858.2;	31-OCT-2004	19:44:33;	Dark	;	37.0;	143;	Alp Hyi	;	2.86;	7200;occ;	74;	0;13967