

GOMOS Daily Report 17-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	19OCT2004 05:01:48
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (17OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (18OCT2004 00:00:00)

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

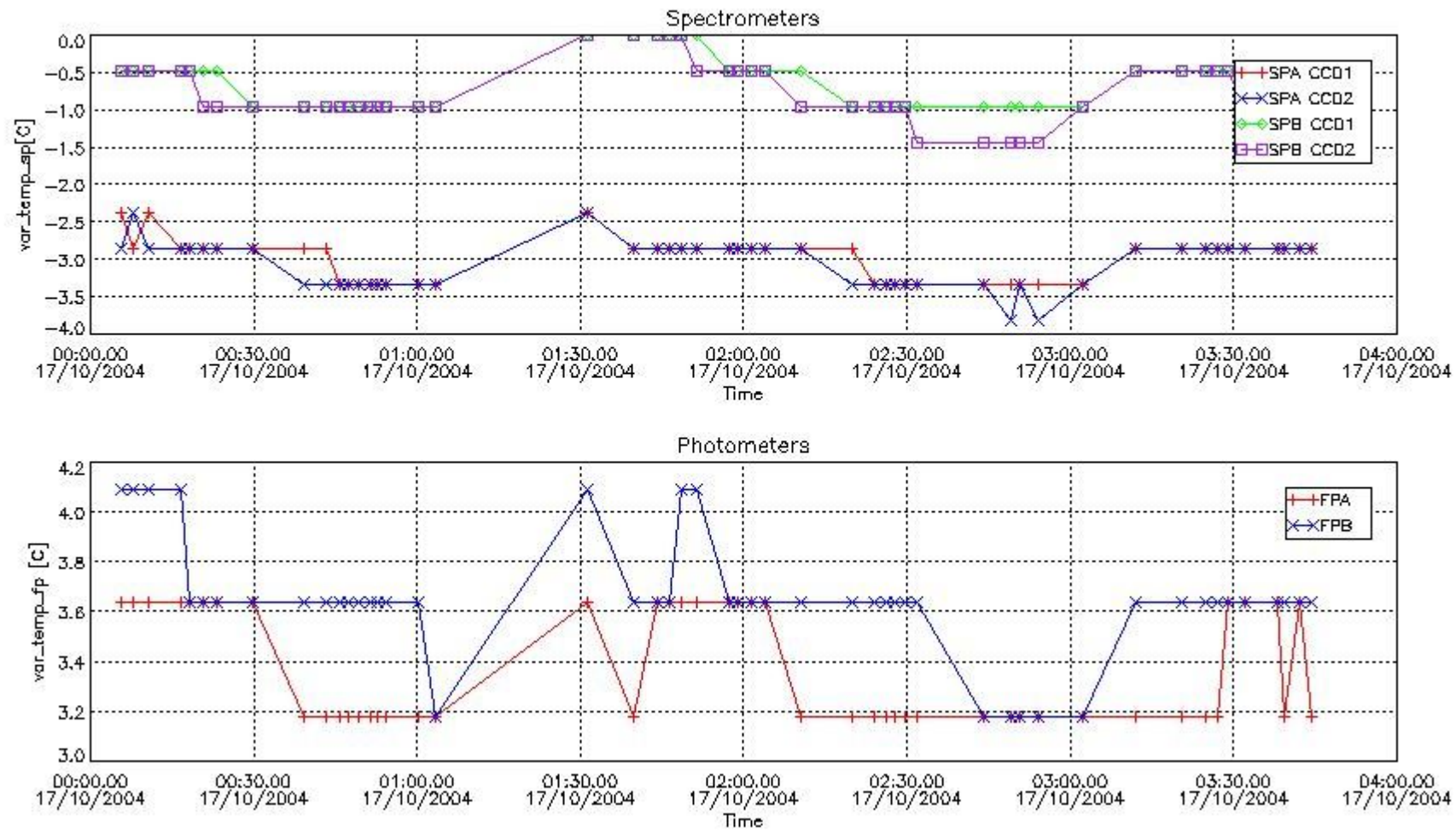
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20041017_000543_000000412031_00174_13755_0002.N1	17-OCT-2004 00:05:43	Dark	41.000	29	Bet Car	1.6720	10200.	82	13755	No
GOM_TRA_1PNPDE20041017_000750_000000492031_00174_13755_0003.N1	17-OCT-2004 00:07:50	Dark	48.500	161	Tau Pup	2.9310	4500.0	97	13755	No
GOM_TRA_1PNPDE20041017_001040_000002192031_00174_13755_0004.N1	17-OCT-2004 00:10:40	Dark	218.50	1	9Alp CMa	-1.4400	11000.	437	13755	No
GOM_TRA_1PNPDE20041017_001647_000000392031_00174_13755_0005.N1	17-OCT-2004 00:16:47	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	13755	No
GOM_TRA_1PNPDE20041017_001813_000000452031_00174_13755_0006.N1	17-OCT-2004 00:18:13	Dark	44.500	9	Alp Eri	0.45300	24000.	89	13755	No
GOM_TRA_1PNPDE20041017_002050_000000512031_00174_13755_0007.N1	17-OCT-2004 00:20:50	Dark	51.000	157	The1Eri	2.9060	9300.0	102	13755	No
GOM_TRA_1PNPDE20041017_002311_000000452031_00174_13755_0008.N1	17-OCT-2004 00:23:11	Twilight	44.500	84	Alp Phe	2.3970	4500.0	89	13755	No
GOM_TRA_1PNPDE20041017_002946_000000472031_00174_13755_0009.N1	17-OCT-2004 00:29:46	Bright	46.500	52	16Bet Cet	2.0370	4500.0	93	13755	No
GOM_TRA_1PNPDE20041017_003921_000000402031_00174_13755_0010.N1	17-OCT-2004 00:39:21	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	13755	No
GOM_TRA_1PNPDE20041017_004320_000000382031_00174_13755_0011.N1	17-OCT-2004 00:43:20	Bright	37.500	58	21Alp And	2.0730	11000.	75	13755	No
GOM_TRA_1PNPDE20041017_004544_000000442031_00174_13755_0012.N1	17-OCT-2004 00:45:44	Bright	44.000	53	43Bet And	2.0480	3300.0	88	13755	No
GOM_TRA_1PNPDE20041017_004715_000000452031_00174_13755_0013.N1	17-OCT-2004 00:47:15	Bright	45.000	173	4Bet Tri	3.0040	8900.0	90	13755	No
GOM_TRA_1PNPDE20041017_004908_000000492031_00174_13755_0014.N1	17-OCT-2004 00:49:08	Bright	48.500	73	57Gam1And	2.2600	13100.	97	13755	No
GOM_TRA_1PNPDE20041017_005119_000000422031_00174_13755_0015.N1	17-OCT-2004 00:51:19	Bright	41.500	68	18Alp Cas	2.2250	4500.0	83	13755	No
GOM_TRA_1PNPDE20041017_005240_000000372031_00174_13755_0016.N1	17-OCT-2004 00:52:40	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	13755	No
GOM_TRA_1PNPDE20041017_005420_000000362031_00174_13755_0017.N1	17-OCT-2004 00:54:20	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	13755	No
GOM_TRA_1PNPDE20041017_010022_000000382031_00174_13755_0018.N1	17-OCT-2004 01:00:22	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	13755	No
GOM_TRA_1PNPDE20041017_010327_000000402031_00174_13755_0019.N1	17-OCT-2004 01:03:27	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	13755	No
GOM_TRA_1PNPDE20041017_013126_000000542031_00174_13755_0000.N1	17-OCT-2004 01:31:26	Twilight	54.000	48	30Alp Hya	1.9770	4100.0	108	13755	No
GOM_TRA_1PNPDE20041017_013953_000000402031_00174_13755_0001.N1	17-OCT-2004 01:39:53	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	13755	No
GOM_TRA_1PNPDE20041017_014410_000000462031_00175_13756_0002.N1	17-OCT-2004 01:44:10	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	13756	No
GOM_TRA_1PNPDE20041017_014620_000000422031_00175_13756_0003.N1	17-OCT-2004 01:46:20	Dark	41.500	29	Bet Car	1.6720	10200.	83	13756	No
GOM_TRA_1PNPDE20041017_014828_000000482031_00175_13756_0004.N1	17-OCT-2004 01:48:28	Dark	48.000	161	Tau Pup	2.9310	4500.0	96	13756	No
GOM_TRA_1PNPDE20041017_015119_000001832031_00175_13756_0005.N1	17-OCT-2004 01:51:19	Dark	183.00	1	9Alp CMa	-1.4400	11000.	366	13756	No
GOM_TRA_1PNPDE20041017_015723_000000422031_00175_13756_0006.N1	17-OCT-2004 01:57:23	Dark	41.500	143	Alp Hyi	2.8570	7200.0	83	13756	No
GOM_TRA_1PNPDE20041017_015849_000000442031_00175_13756_0007.N1	17-OCT-2004 01:58:49	Dark	44.000	9	Alp Eri	0.45300	24000.	88	13756	No
GOM_TRA_1PNPDE20041017_020128_000000502031_00175_13756_0008.N1	17-OCT-2004 02:01:28	Dark	49.500	157	The1Eri	2.9060	9300.0	99	13756	No
GOM_TRA_1PNPDE20041017_020347_000000472031_00175_13756_0009.N1	17-OCT-2004 02:03:47	Twilight	46.500	84	Alp Phe	2.3970	4500.0	93	13756	No
GOM_TRA_1PNPDE20041017_021022_000000462031_00175_13756_0010.N1	17-OCT-2004 02:10:22	Bright	46.000	52	16Bet Cet	2.0370	4500.0	92	13756	No
GOM_TRA_1PNPDE20041017_021957_000000412031_00175_13756_0011.N1	17-OCT-2004 02:19:57	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	13756	No
GOM_TRA_1PNPDE20041017_022356_000000382031_00175_13756_0012.N1	17-OCT-2004 02:23:56	Bright	37.500	58	21Alp And	2.0730	11000.	75	13756	No
GOM_TRA_1PNPDE20041017_022619_000000432031_00175_13756_0013.N1	17-OCT-2004 02:26:19	Bright	42.500	53	43Bet And	2.0480	3300.0	85	13756	No
GOM_TRA_1PNPDE20041017_022750_000000472031_00175_13756_0014.N1	17-OCT-2004 02:27:50	Bright	47.000	173	4Bet Tri	3.0040	8900.0	94	13756	No
GOM_TRA_1PNPDE20041017_022943_000000472031_00175_13756_0015.N1	17-OCT-2004 02:29:43	Bright	46.500	73	57Gam1And	2.2600	13100.	93	13756	No
GOM_TRA_1PNPDE20041017_023155_000000382031_00175_13756_0016.N1	17-OCT-2004 02:31:55	Bright	38.000	68	18Alp Cas	2.2250	4500.0	76	13756	No
GOM_TRA_1PNPDE20041017_024401_000000432031_00175_13756_0000.N1	17-OCT-2004 02:44:01	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	13756	No
GOM_TRA_1PNPDE20041017_024913_000000392031_00175_13756_0001.N1	17-OCT-2004 02:49:13	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	13756	No
GOM_TRA_1PNPDE20041017_025047_000000372031_00175_13756_0002.N1	17-OCT-2004 02:50:47	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	13756	No
GOM_TRA_1PNPDE20041017_025408_000000412031_00175_13756_0003.N1	17-OCT-2004 02:54:08	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	13756	No
GOM_TRA_1PNPDE20041017_030207_000001092031_00175_13756_0004.N1	17-OCT-2004 03:02:07	Bright	109.00	17	78Bet Gem	1.1610	4500.0	218	13756	No
GOM_TRA_1PNPDE20041017_031200_000000632031_00175_13756_0005.N1	17-OCT-2004 03:12:00	Twilight	63.000	48	30Alp Hya	1.9770	4100.0	126	13756	No
GOM_TRA_1PNPDE20041017_032030_000000422031_00175_13756_0006.N1	17-OCT-2004 03:20:30	Dark	42.000	113	Mu Vel	2.6920	5000.0	84	13756	No
GOM_TRA_1PNPDE20041017_032447_000000452031_00176_13757_0007.N1	17-OCT-2004 03:24:47	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	13757	No
GOM_TRA_1PNPDE20041017_032655_000000422031_00176_13757_0008.N1	17-OCT-2004 03:26:55	Dark	42.000	29	Bet Car	1.6720	10200.	84	13757	No
GOM_TRA_1PNPDE20041017_032903_000000502031_00176_13757_0009.N1	17-OCT-2004 03:29:03	Dark	49.500	161	Tau Pup	2.9310	4500.0	99	13757	No
GOM_TRA_1PNPDE20041017_033159_000001702031_00176_13757_0010.N1	17-OCT-2004 03:31:59	Dark	170.00	1	9Alp CMa	-1.4400	11000.	340	13757	No
GOM_TRA_1PNPDE20041017_033758_000000402031_00176_13757_0011.N1	17-OCT-2004 03:37:58	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	13757	No
GOM_TRA_1PNPDE20041017_033925_000000532031_00176_13757_0012.N1	17-OCT-2004 03:39:25	Dark	52.500	9	Alp Eri	0.45300	24000.	105	13757	No
GOM_TRA_1PNPDE20041017_034205_000000462031_00176_13757_0013.N1	17-OCT-2004 03:42:05	Dark	45.500	157	The1Eri	2.9060	9300.0	91	13757	No

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



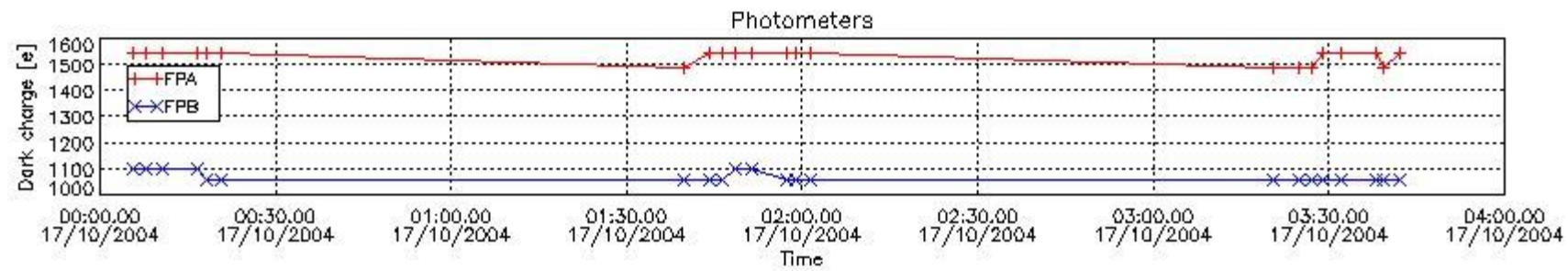
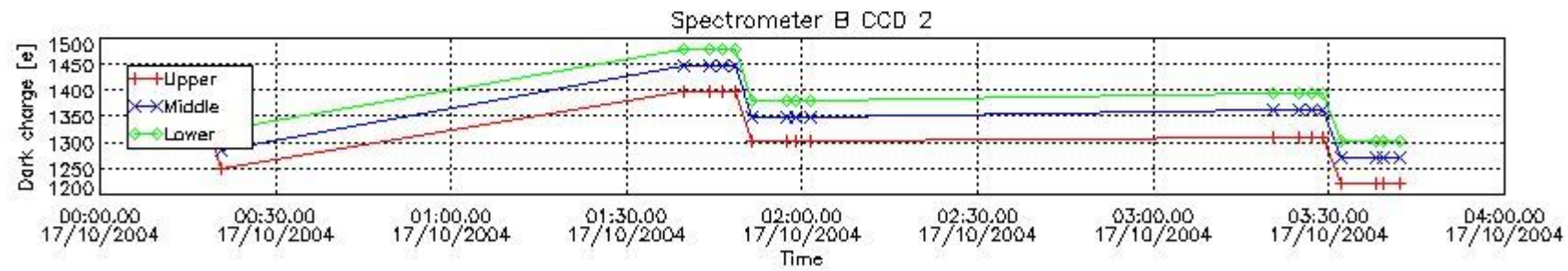
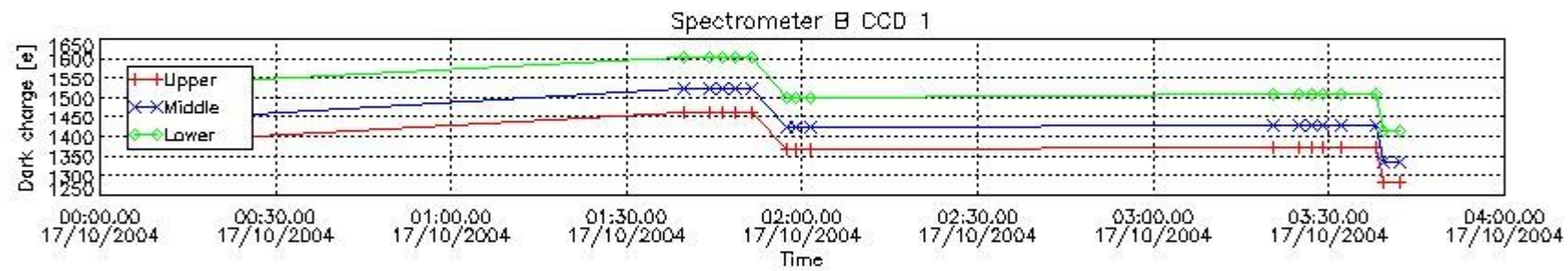
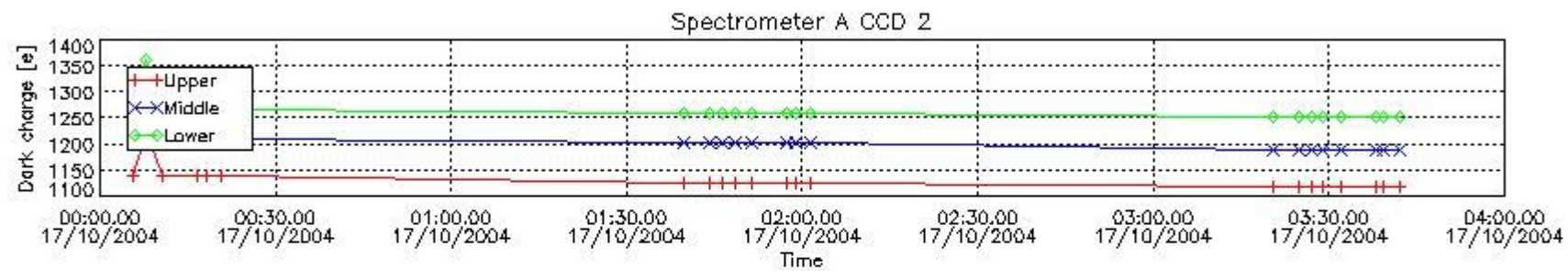
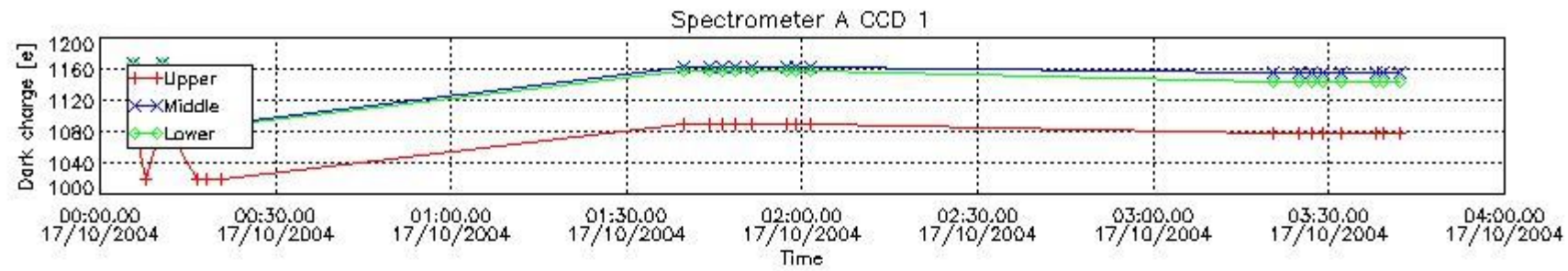
4. Overview of dark signal processing per product

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



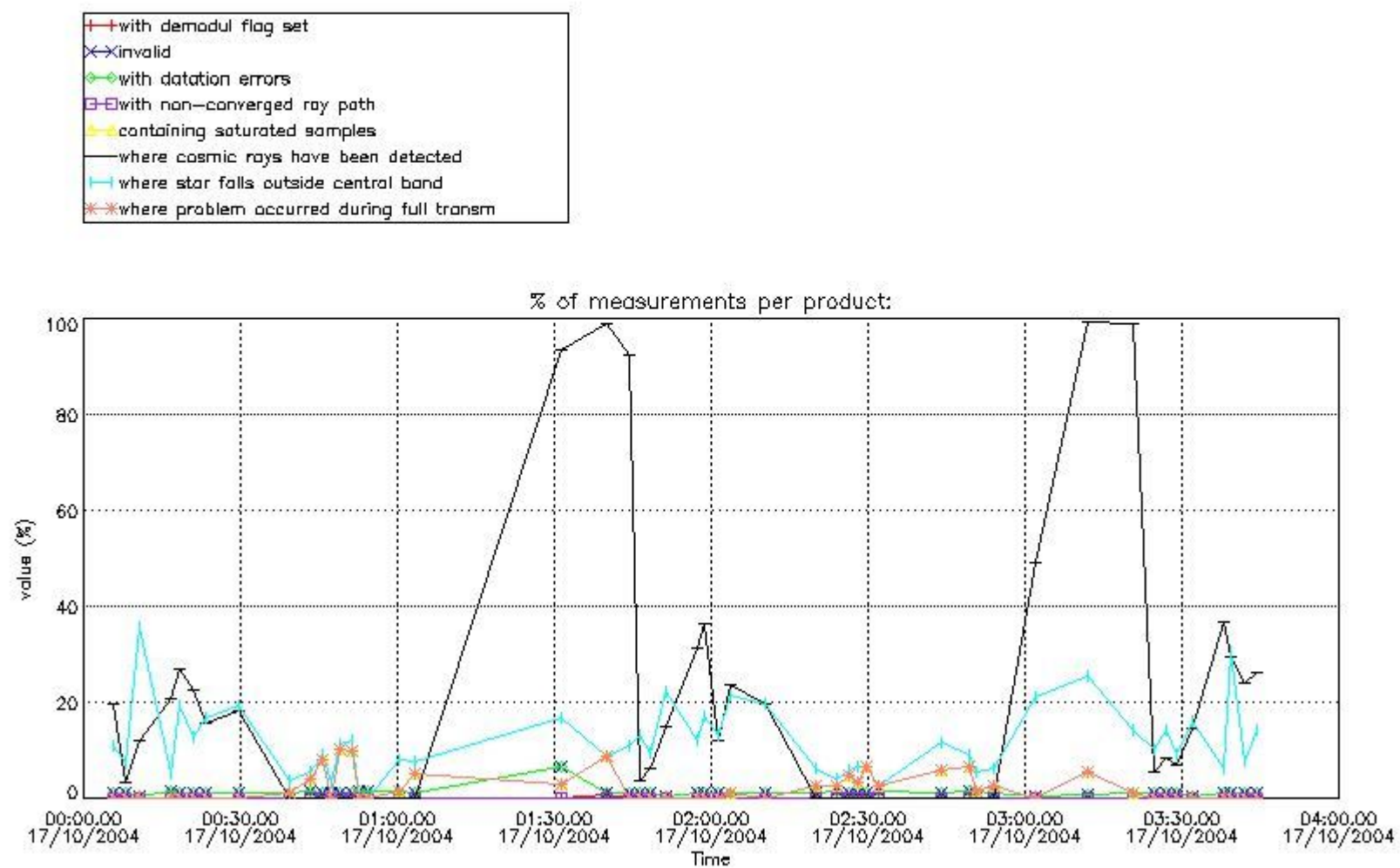
5. Demodulation flag and quality information monitoring

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.

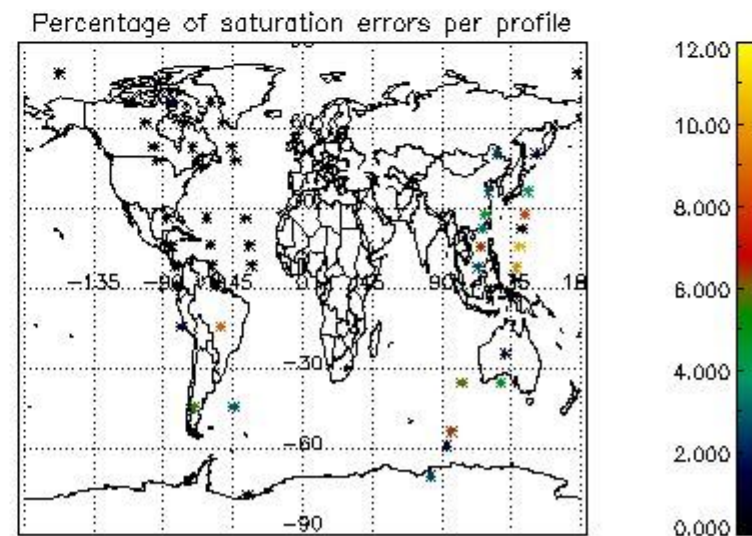
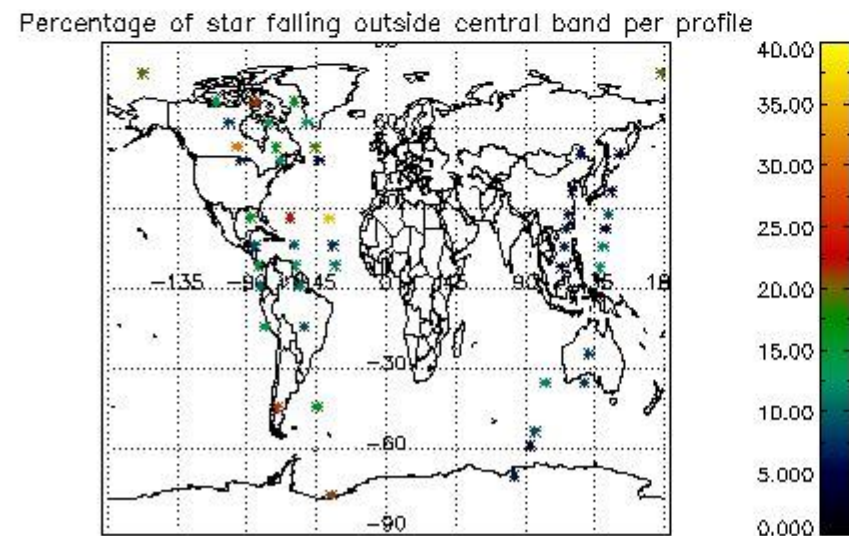
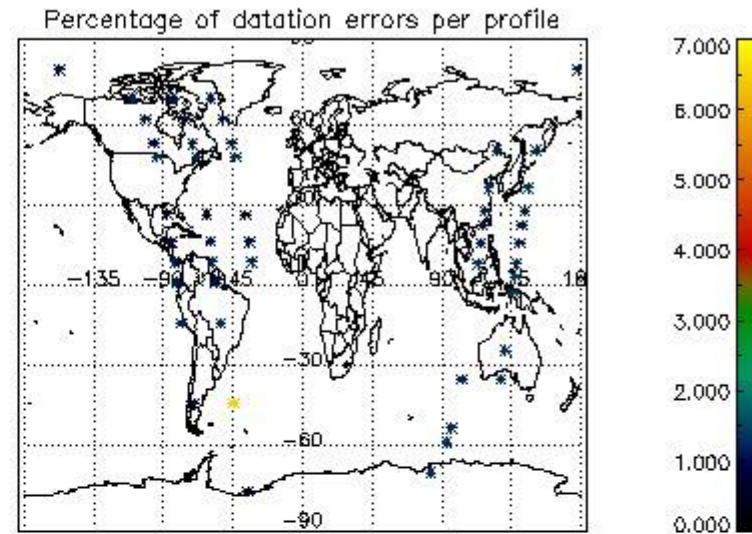
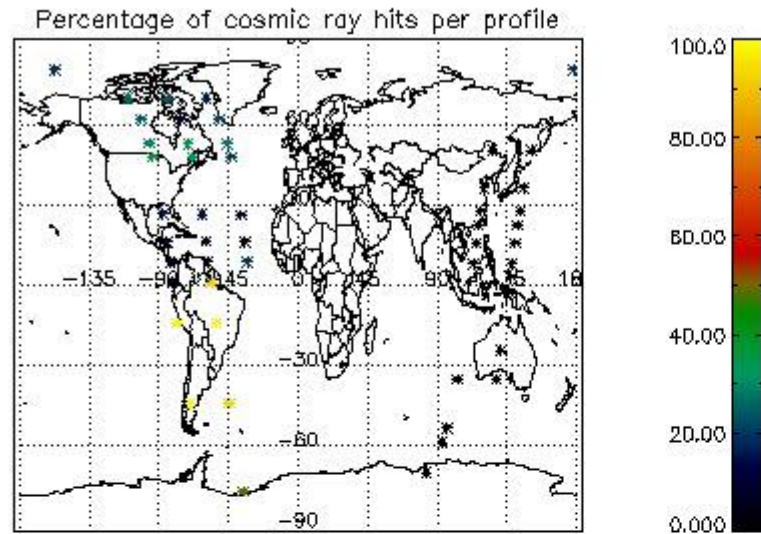
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.0000 %
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)



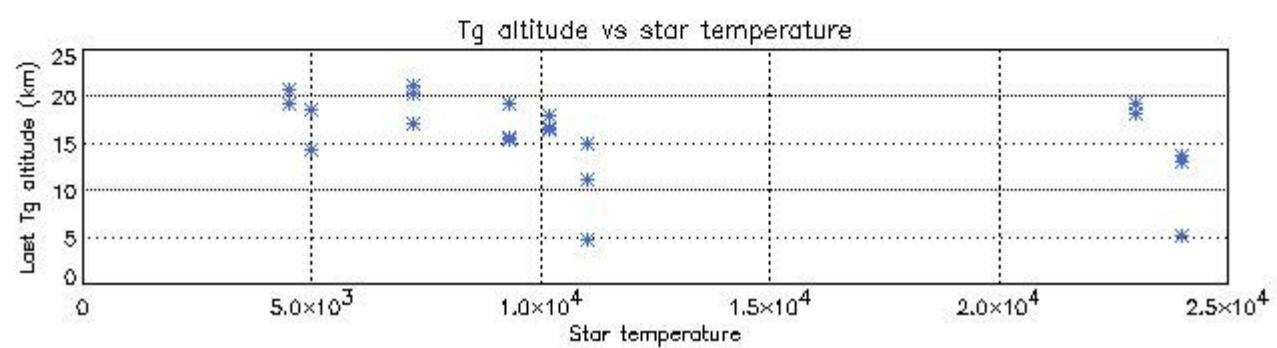
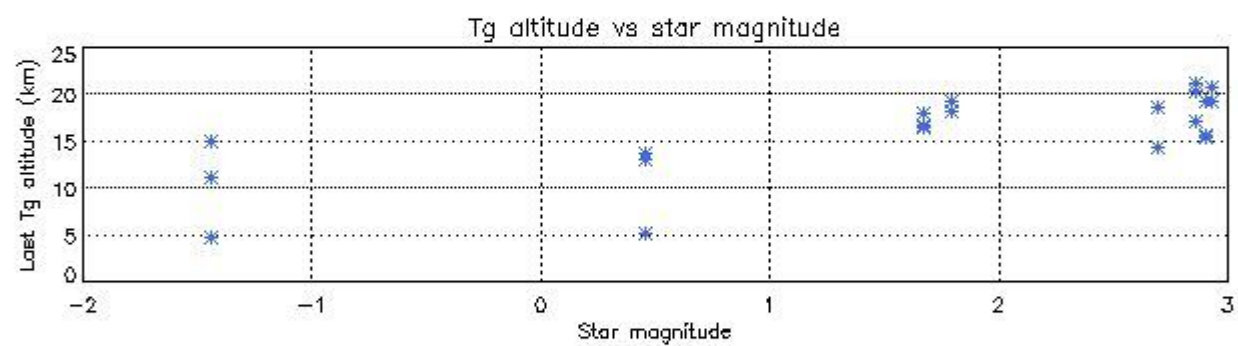
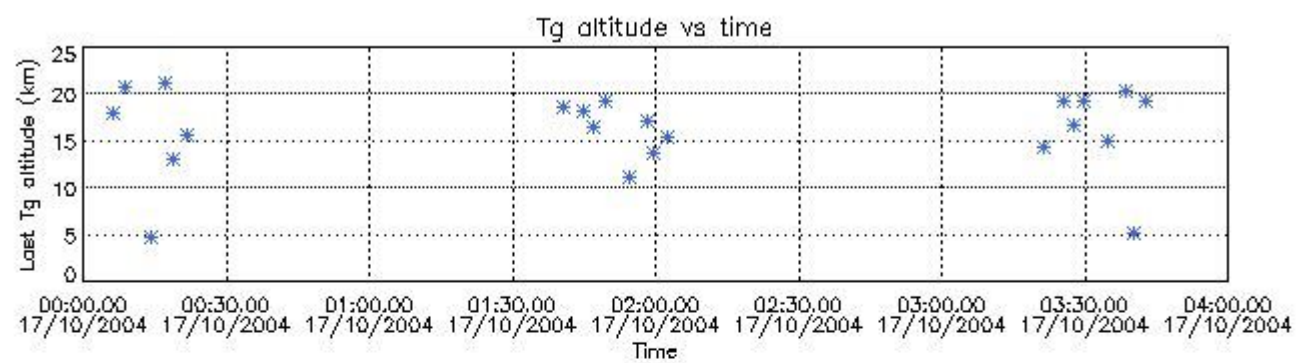
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.010	19.878	11.744
St. deviation:	4.4585	4.3205	2.6102
Maximum:	21.150	27.784	14.526
Minimum:	4.6927	11.247	7.8071
Number of data:	22.000	23.000	5.0000

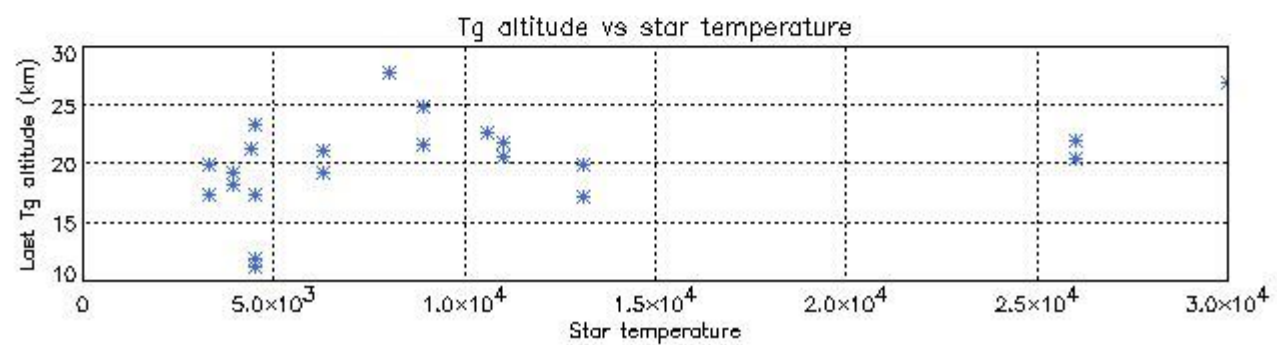
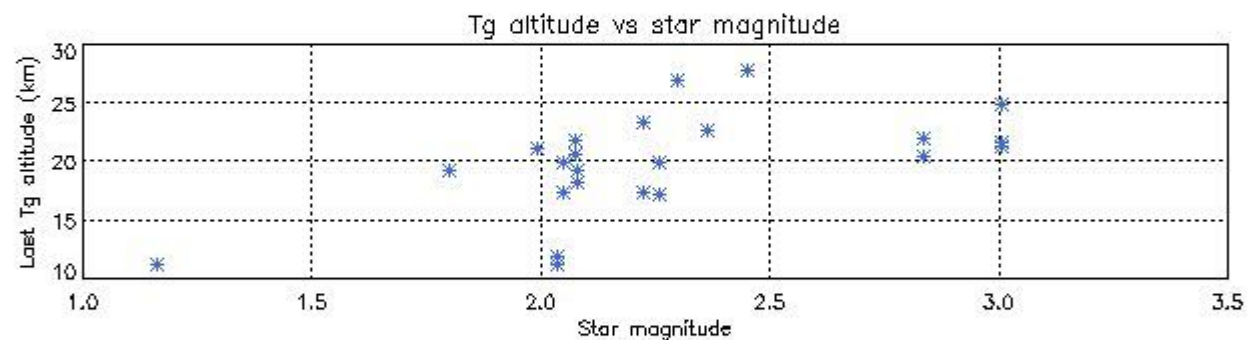
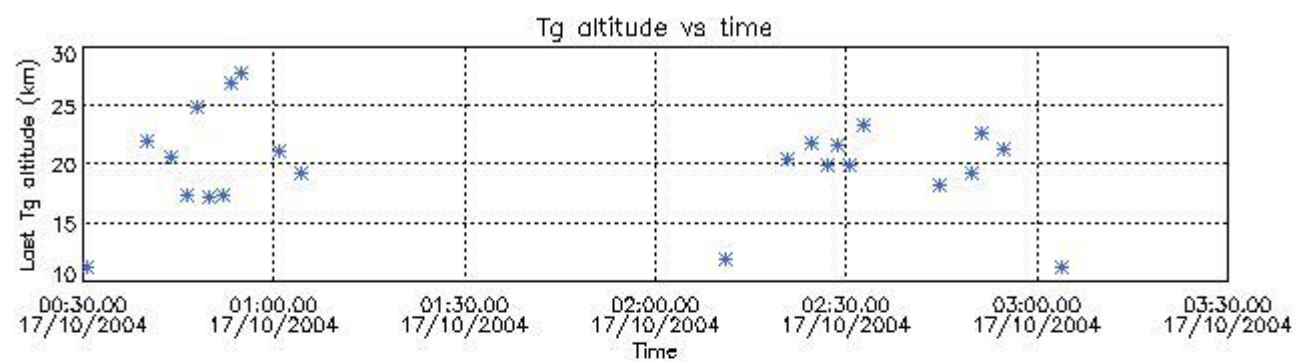
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



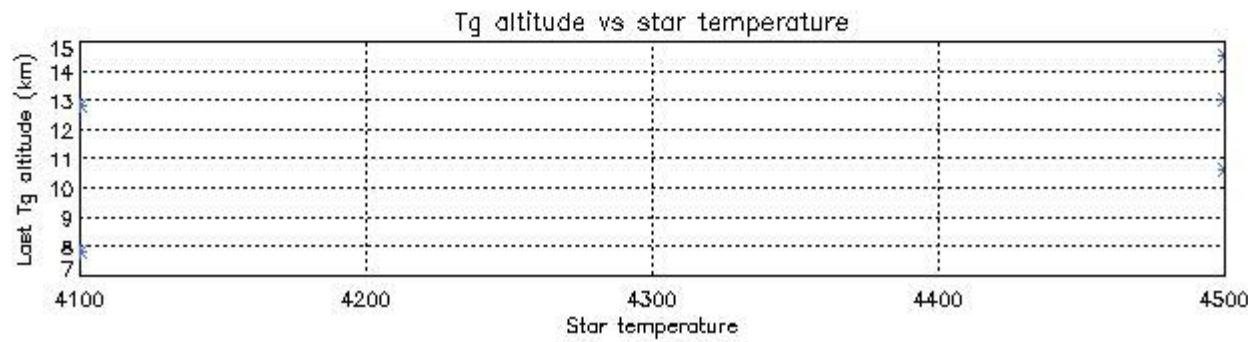
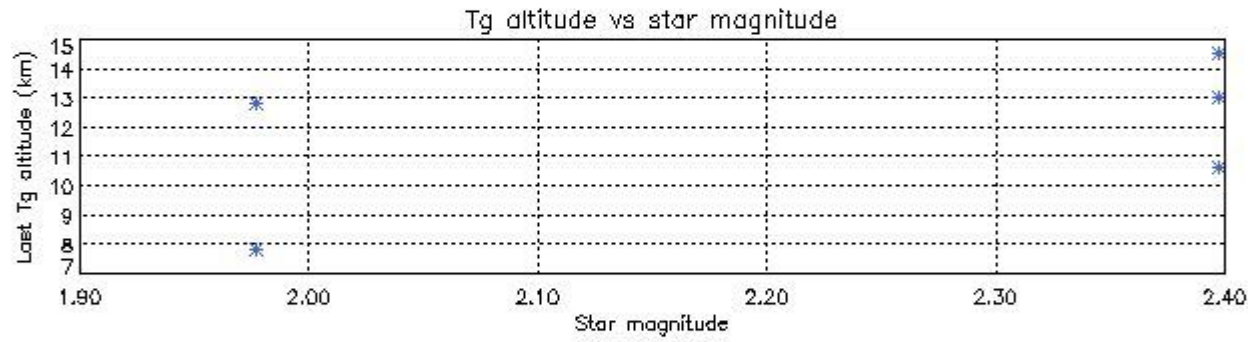
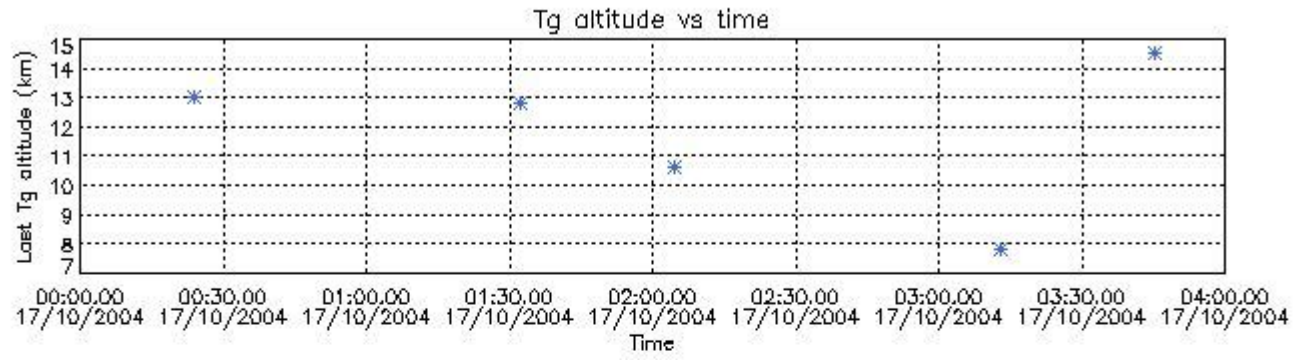
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

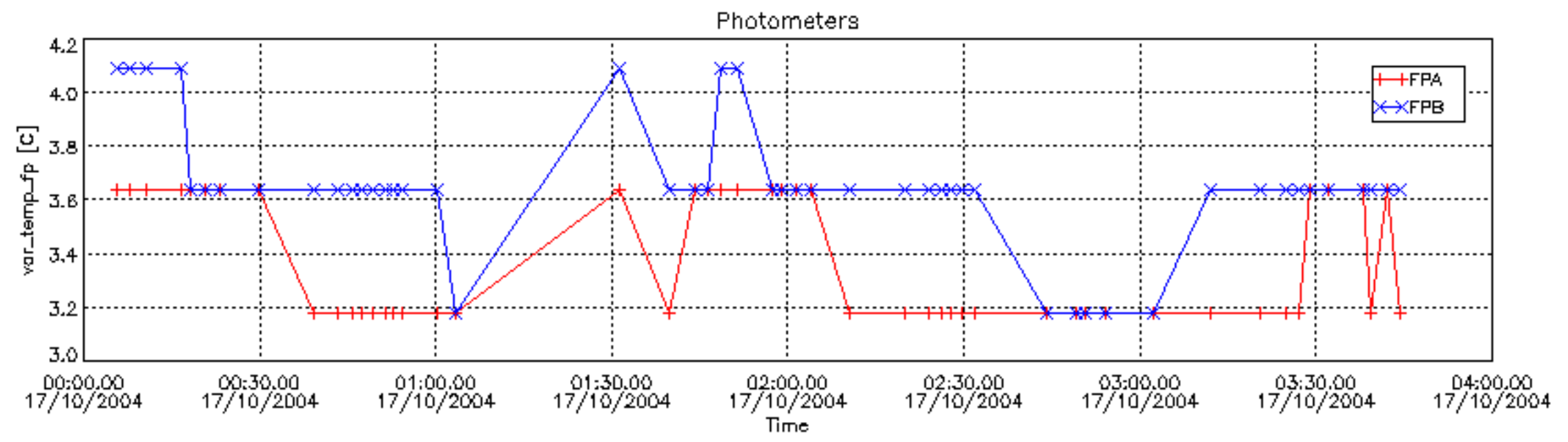
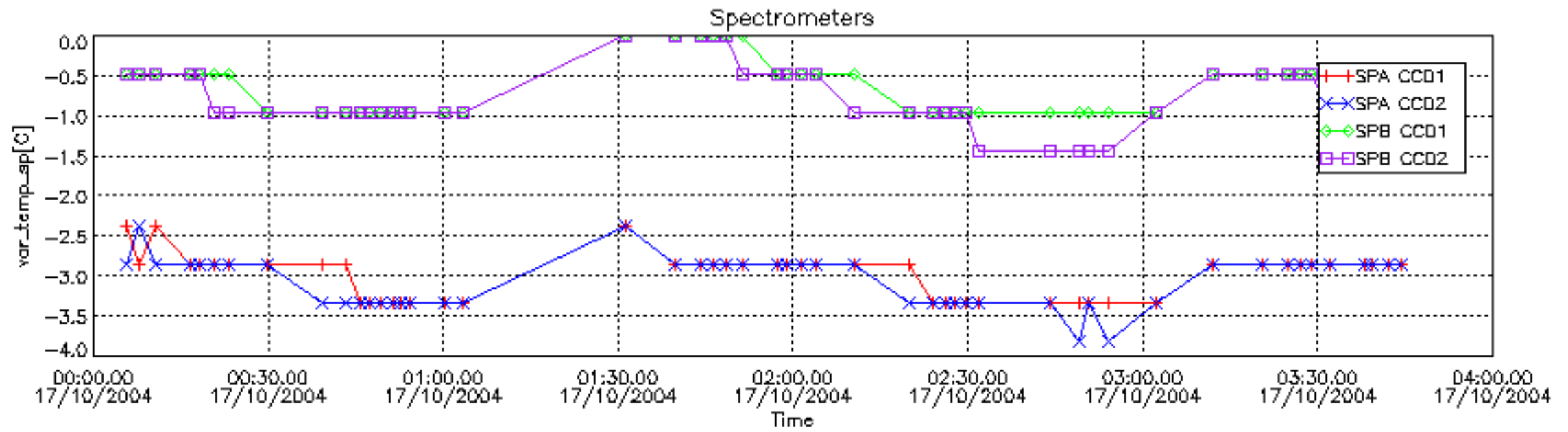
Tangent altitude at which the star is lost

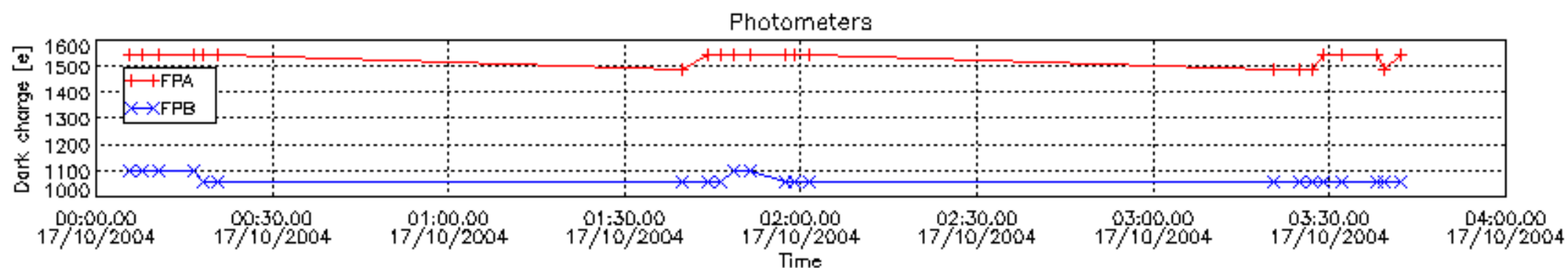
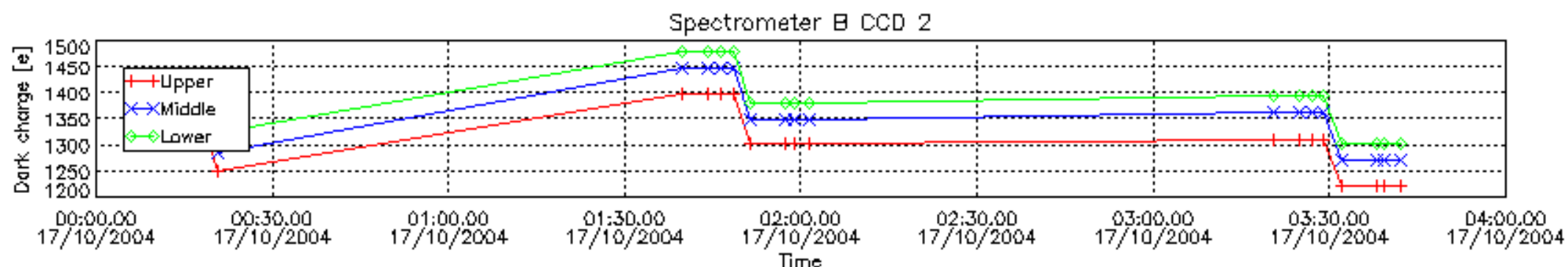
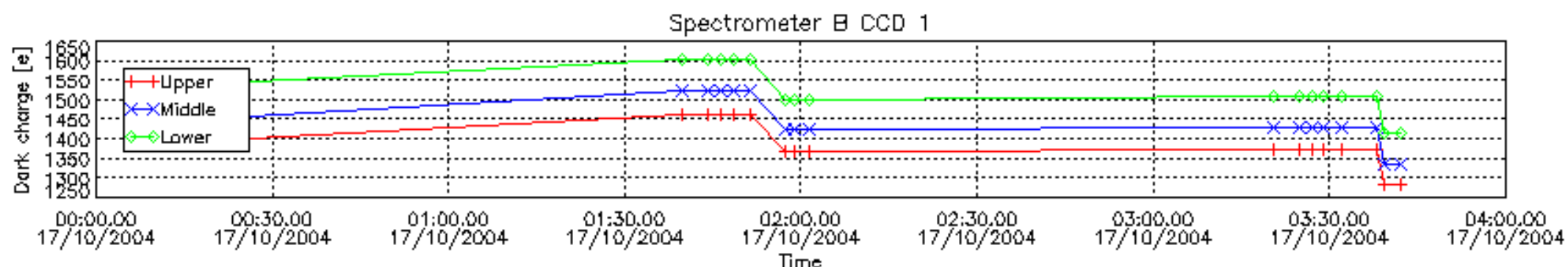
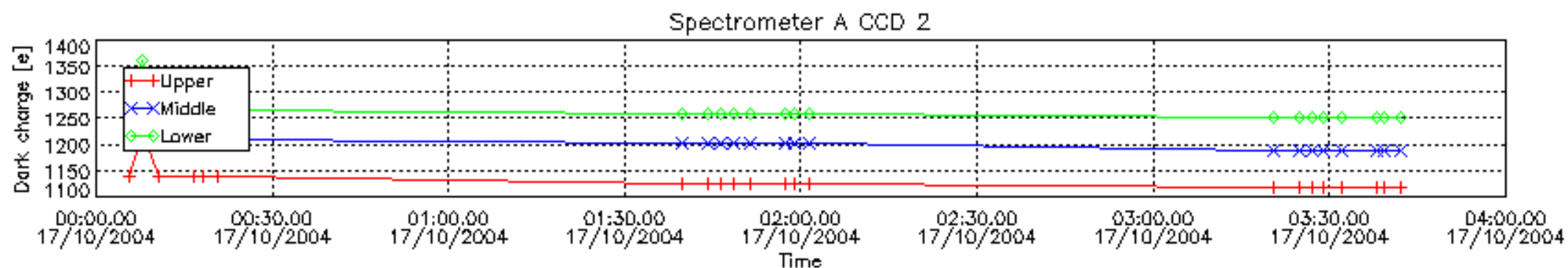
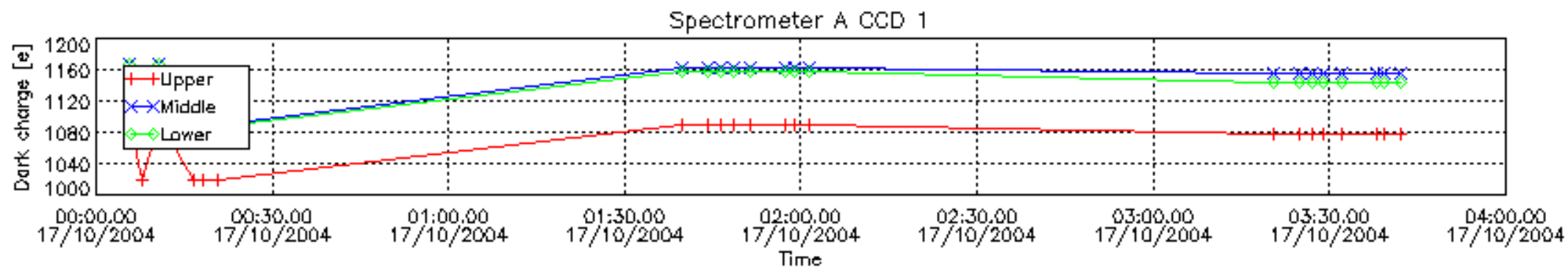


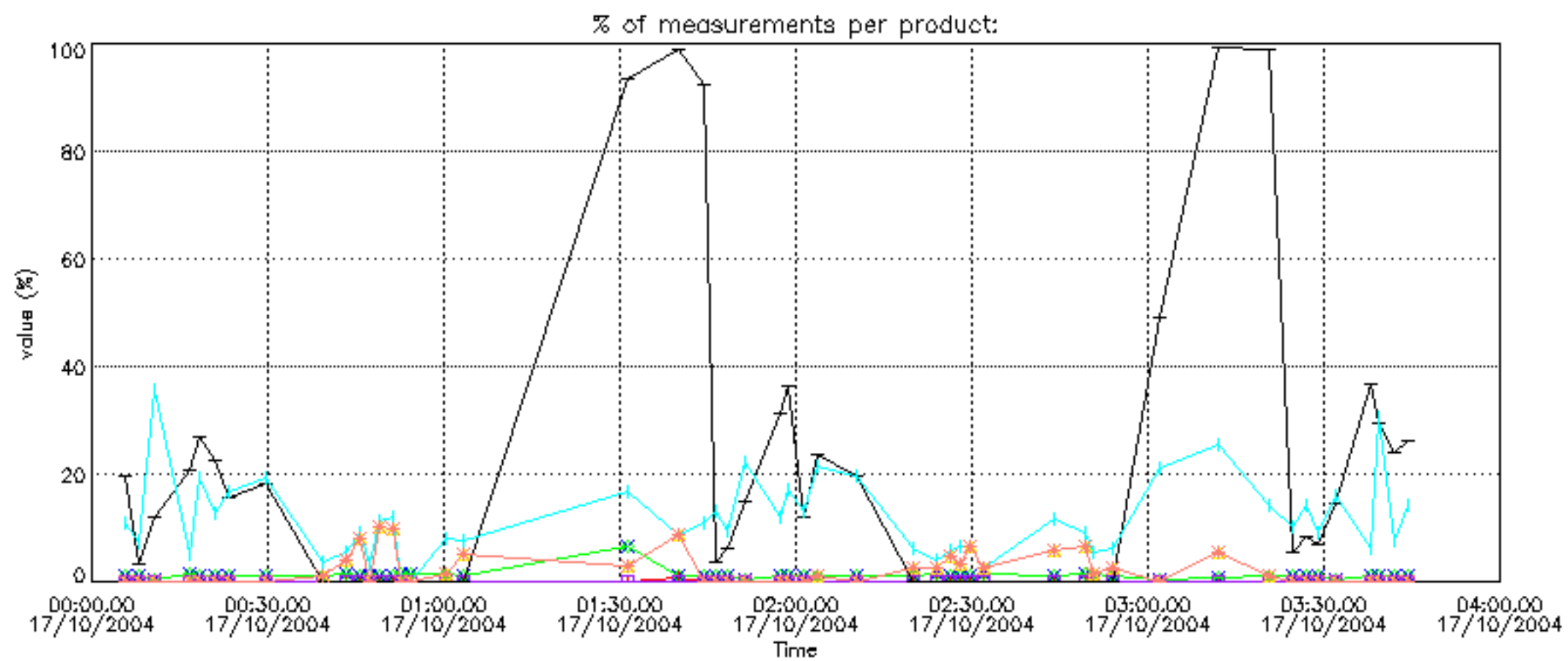
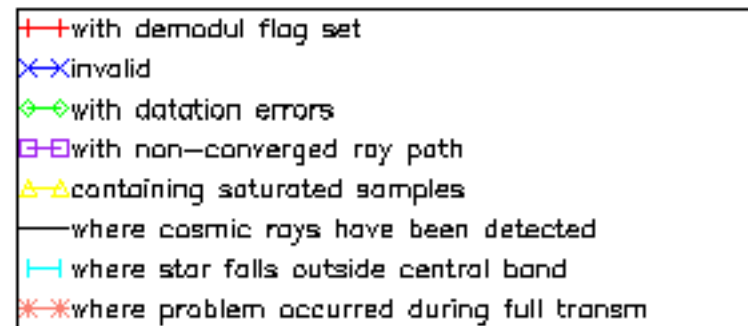
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

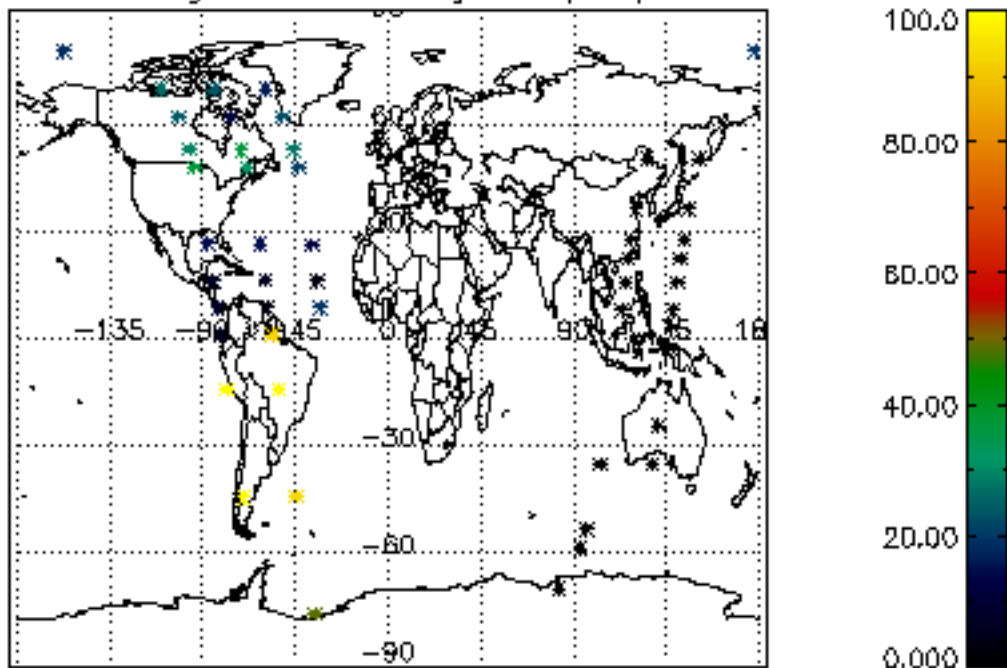
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.0	1447.5	1461.5	1446.6
St. deviation:	5.3603	6.1238	6.6512	7.6714
Maximum:	1545.0	1492.0	1517.0	1500.0
Minimum:	1428.0	1417.0	1456.0	1430.0
Number of data:	34550.	34550.	27350.	27350.



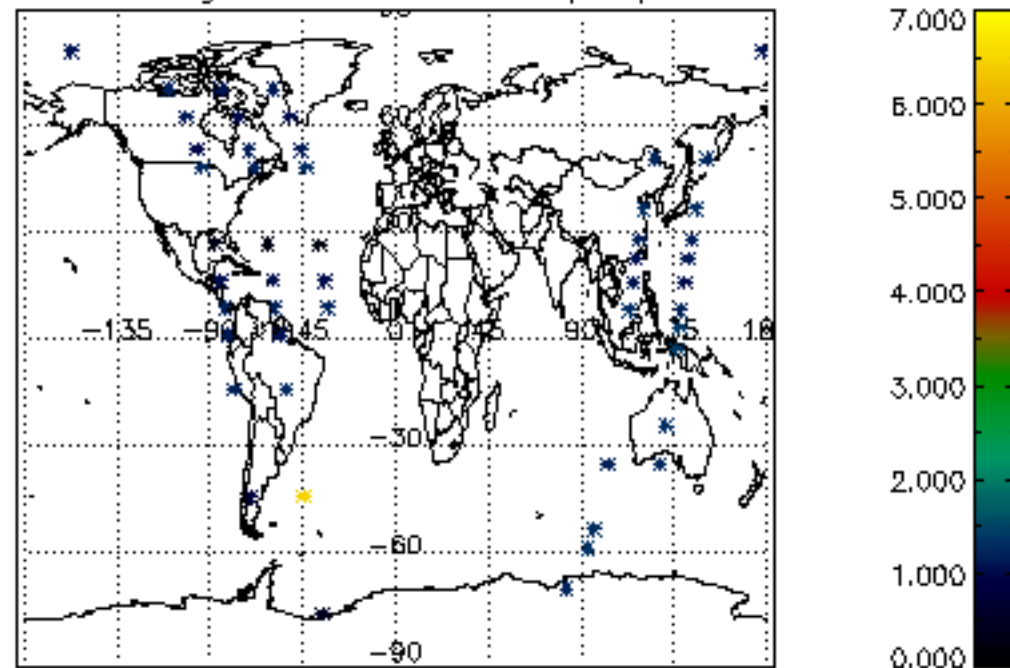




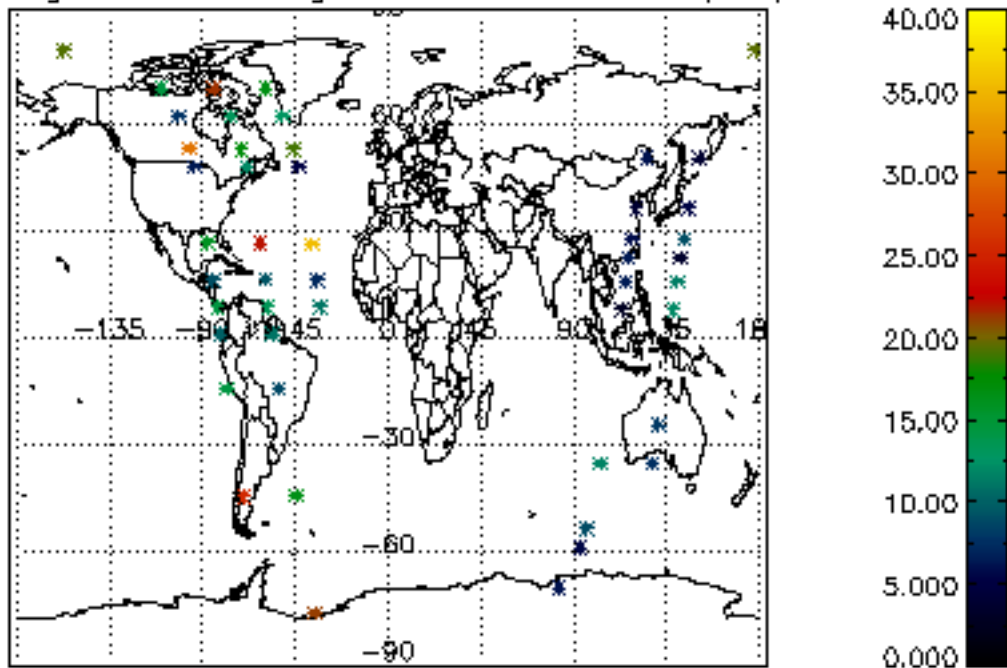
Percentage of cosmic ray hits per profile



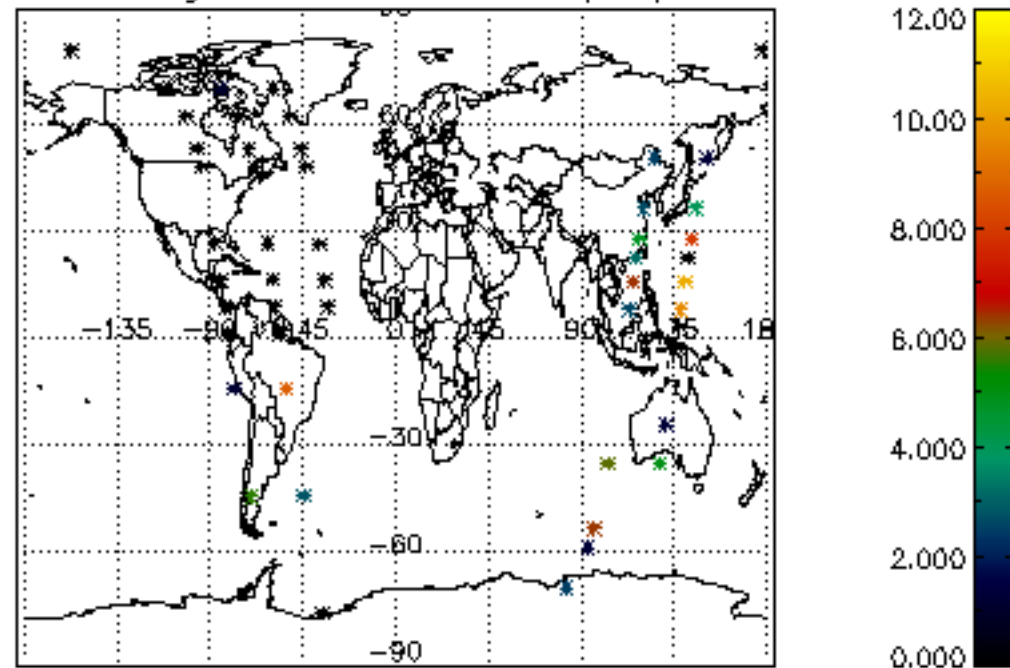
Percentage of datation errors per profile



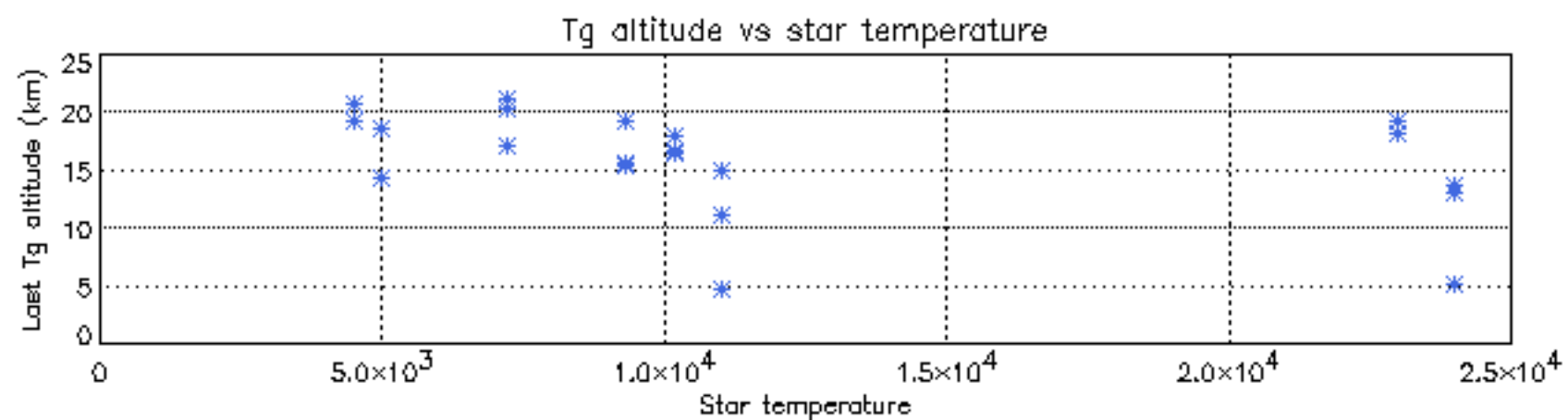
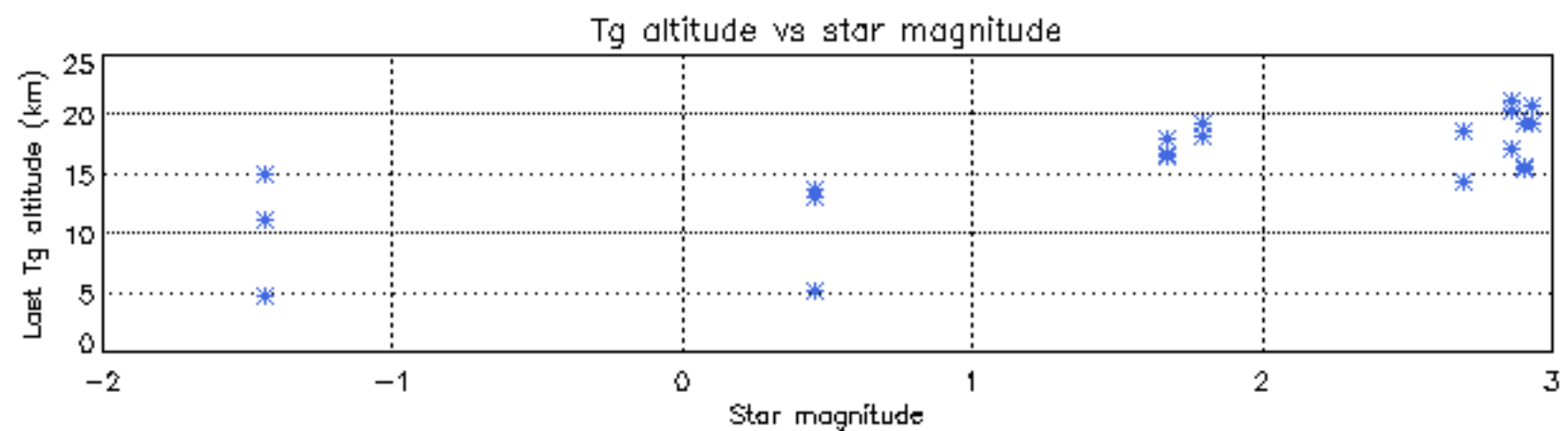
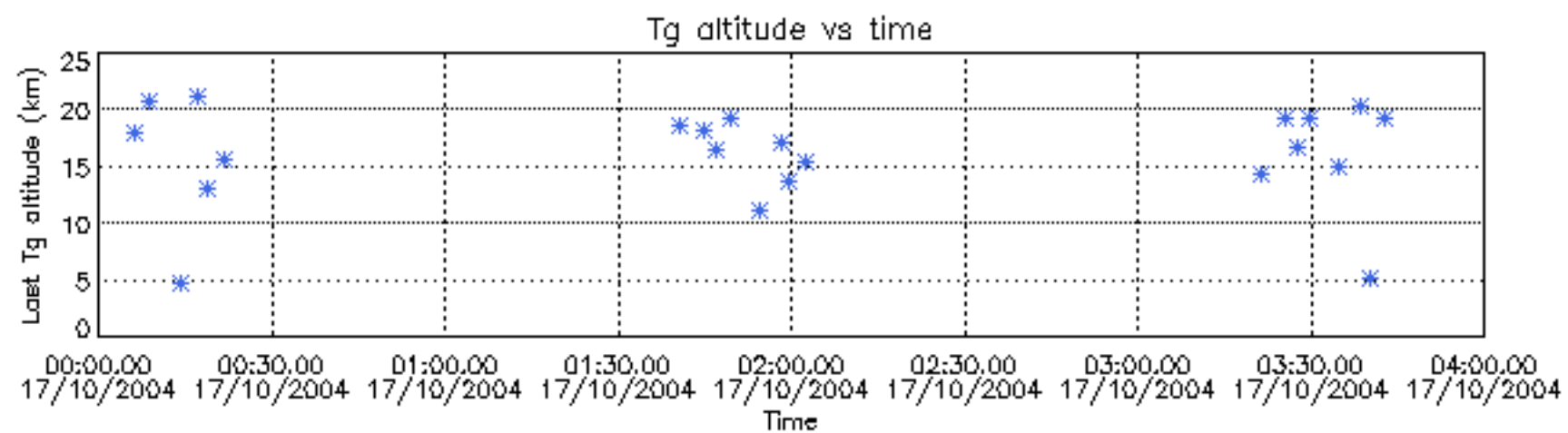
Percentage of star falling outside central band per profile



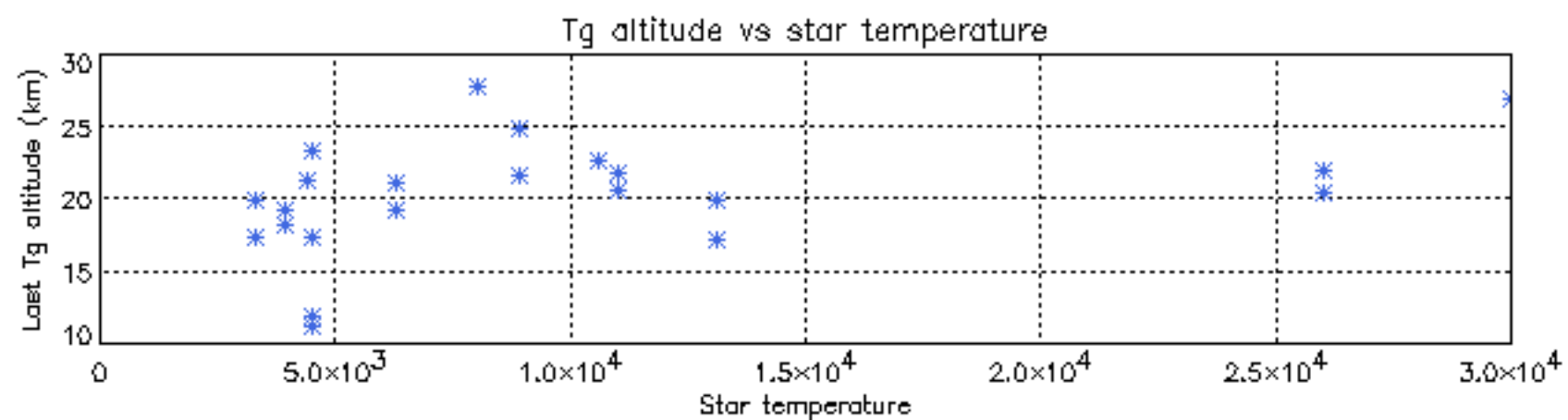
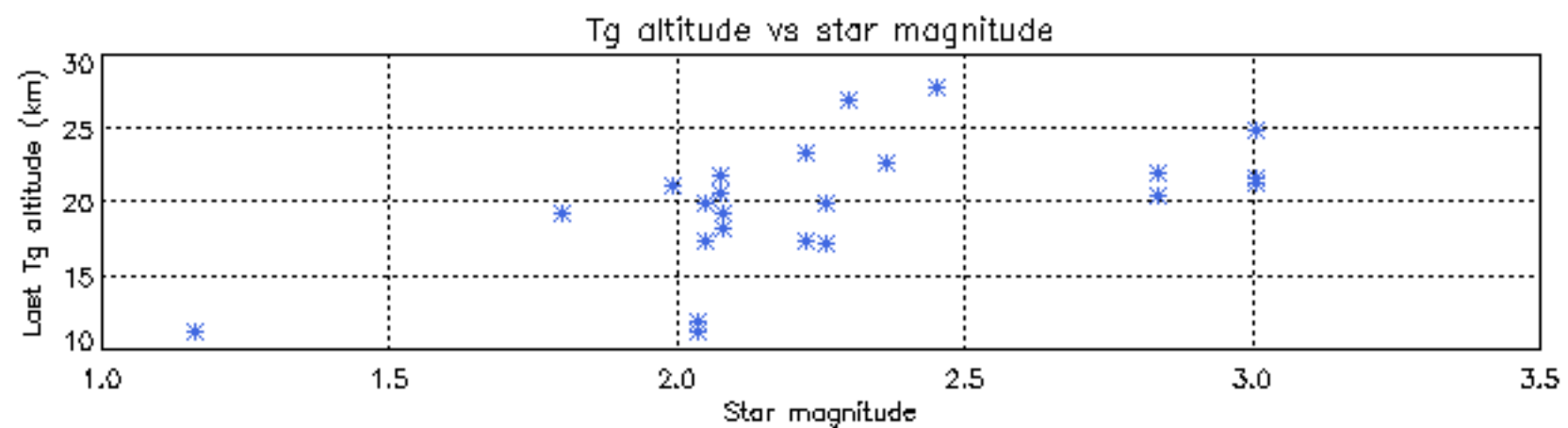
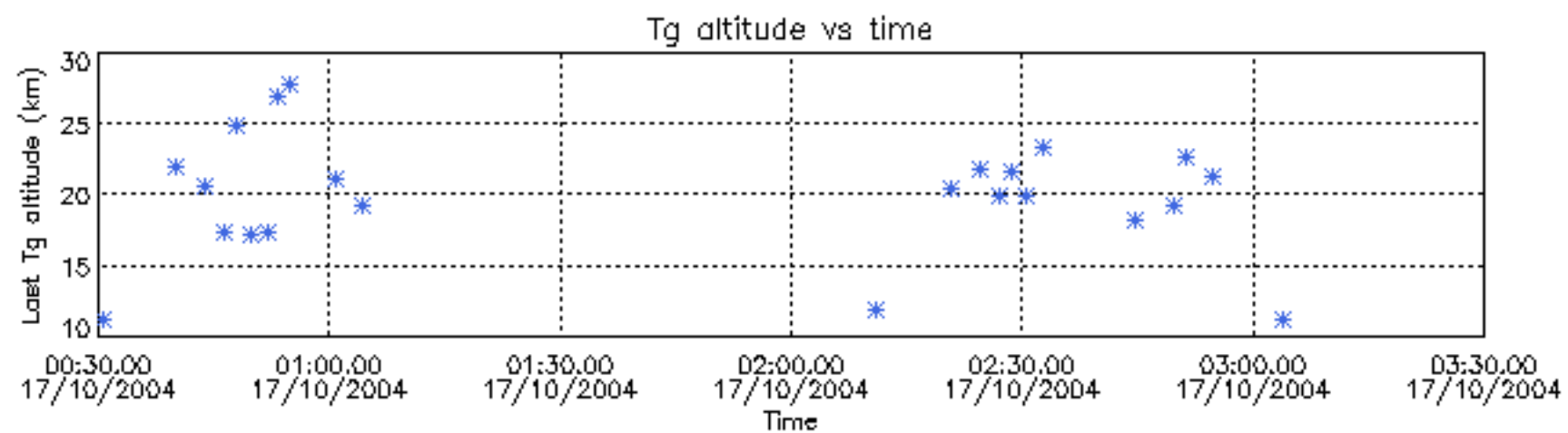
Percentage of saturation errors per profile



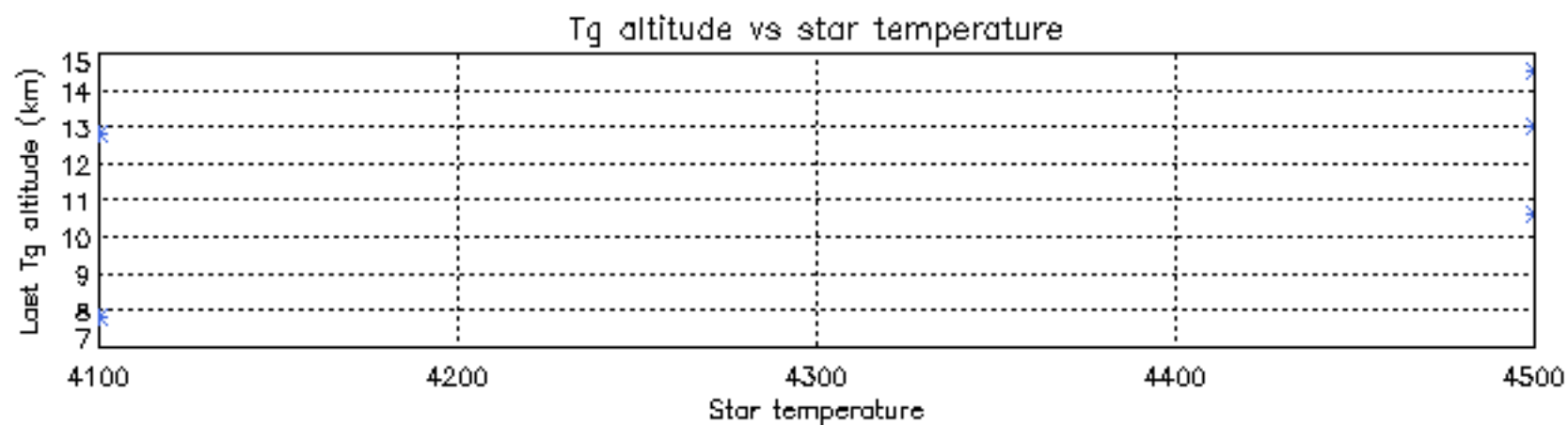
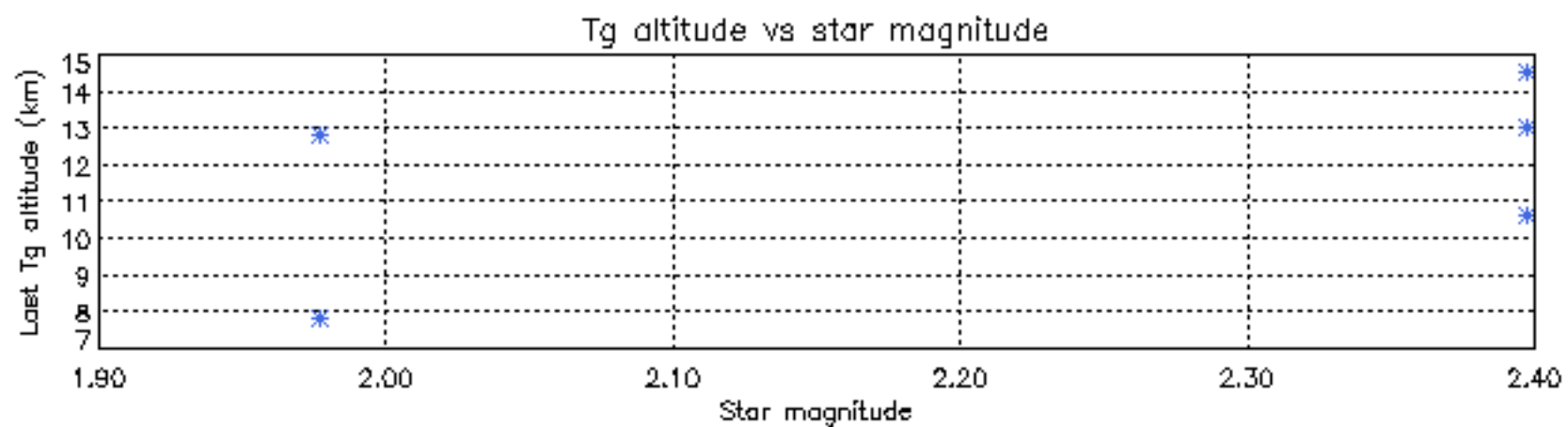
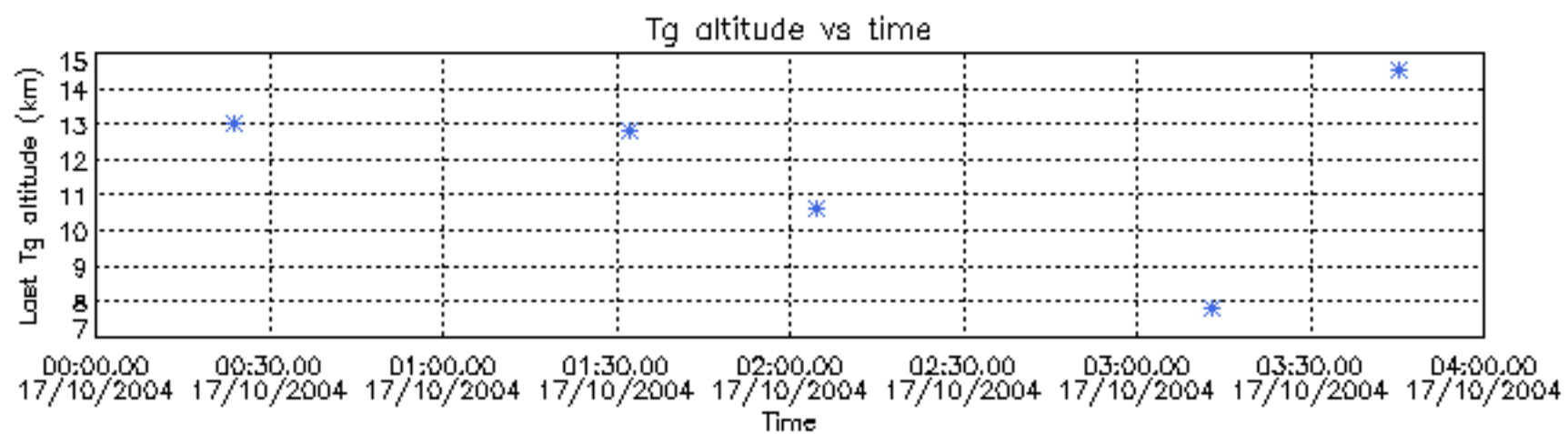
Tangent altitude at which the star is lost



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
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 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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 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
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 10; -293.8; 01-OCT-2004 03:22:26; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;13527
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 13; 172.8; 01-OCT-2004 03:30:12; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;13528
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 15; 603.4; 01-OCT-2004 03:37:23; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13528
 16; 732.7; 01-OCT-2004 03:39:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13528
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 19; 1141.4; 01-OCT-2004 03:46:21; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13528
 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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 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
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 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
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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
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18; 1141.7; 01-OCT-2004 05:26:57; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;13529
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22; 2166.4; 01-OCT-2004 05:44:02; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13529
23; 2385.0; 01-OCT-2004 05:47:41; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;13529
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25; 2653.3; 01-OCT-2004 05:52:09; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;13529
26; 2948.0; 01-OCT-2004 05:57:04; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;13529
27; 3027.0; 01-OCT-2004 05:58:23; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13529
28; 3261.7; 01-OCT-2004 06:02:17; Bright; 53.5; 160; 23Gam Per ; 2.93; 4700;occ; 107; 0;13529
29; 3426.7; 01-OCT-2004 06:05:02; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13529
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 3; 1142.5; 01-OCT-2004 20:32:22; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13538
 4; 1422.0; 01-OCT-2004 20:37:01; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;13538
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 6; 1946.6; 01-OCT-2004 20:45:46; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;13538
 7; 2167.5; 01-OCT-2004 20:49:27; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;13538
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 9; 2508.1; 01-OCT-2004 20:55:07; Bright; 62.0; 105; 6Bet Ari ; 2.64; 8900;occ; 124; 0;13538
10; 2647.8; 01-OCT-2004 20:57:27; Bright; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;13538
11; 2946.2; 01-OCT-2004 21:02:25; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;13538
12; 3024.3; 01-OCT-2004 21:03:43; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;13538
13; 3253.1; 01-OCT-2004 21:07:32; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;13538
14; 3427.1; 01-OCT-2004 21:10:26; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13538
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16; 3905.9; 01-OCT-2004 21:18:25; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;13538
17; 3996.3; 01-OCT-2004 21:19:55; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;13538
18; 4190.1; 01-OCT-2004 21:23:09; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;13538
19; 4327.2; 01-OCT-2004 21:25:26; Bright; 100.0; 107; 37The Aur ; 2.65; 11000;occ; 200; 0;13538
20; 4512.6; 01-OCT-2004 21:28:32; Bright; 63.0; 24; 66Alp Gem ; 1.58; 10200;occ; 126; 0;13538
21; 4811.6; 01-OCT-2004 21:33:31; Dark ; 106.0; 170; 27Eps Gem ; 3.00; 9700;occ; 212; 0;13538
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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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
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18; 2384.6; 01-OCT-2004 22:33:40; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;13539
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22; 3023.5; 01-OCT-2004 22:44:19; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13539
23; 3252.2; 01-OCT-2004 22:48:07; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;13539
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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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27; 3995.6; 01-OCT-2004 23:00:31; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;13539
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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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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
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 6;-1188.3; 04-OCT-2004 04:53:53; Dark ; 126.5; 170; 27Eps Gem ; 3.00; 9700;occ; 253; 0;13571
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 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
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 12; -3.6; 04-OCT-2004 05:13:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13571
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 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
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 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
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 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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 12;-2126.6; 04-OCT-2004 14:41:50; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;13577
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 15;-1724.7; 04-OCT-2004 14:48:32; Bright; 108.5; 107; 37The Aur ; 2.65; 11000;occ; 217; 0;13577
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 17;-1179.8; 04-OCT-2004 14:57:37; Dark ; 134.0; 170; 27Eps Gem ; 3.00; 9700;occ; 268; 0;13577
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 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
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 27; 750.8; 04-OCT-2004 15:29:48; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13578
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 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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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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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
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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
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16;-1514.6; 04-OCT-2004 19:53:50; Bright; 64.0; 24; 66Alp Gem ; 1.58; 10200;occ; 128; 0;13580
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19; -635.5; 04-OCT-2004 20:08:29; Dark ; 255.0; 44; 24Gam Gem ; 1.93; 11000;occ; 510; 0;13580
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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
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27; 840.2; 04-OCT-2004 20:33:05; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;13581
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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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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
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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	
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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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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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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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13;	-2118.6;	23-OCT-2004	14:44:54;	Bright;	54.0;	36;	50Alp UMa	; 1.80;	6300;occ;	108;	0;	13849
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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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