

GOMOS Daily Report 07-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	09OCT2004 05:01:44
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (07OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (08OCT2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	0

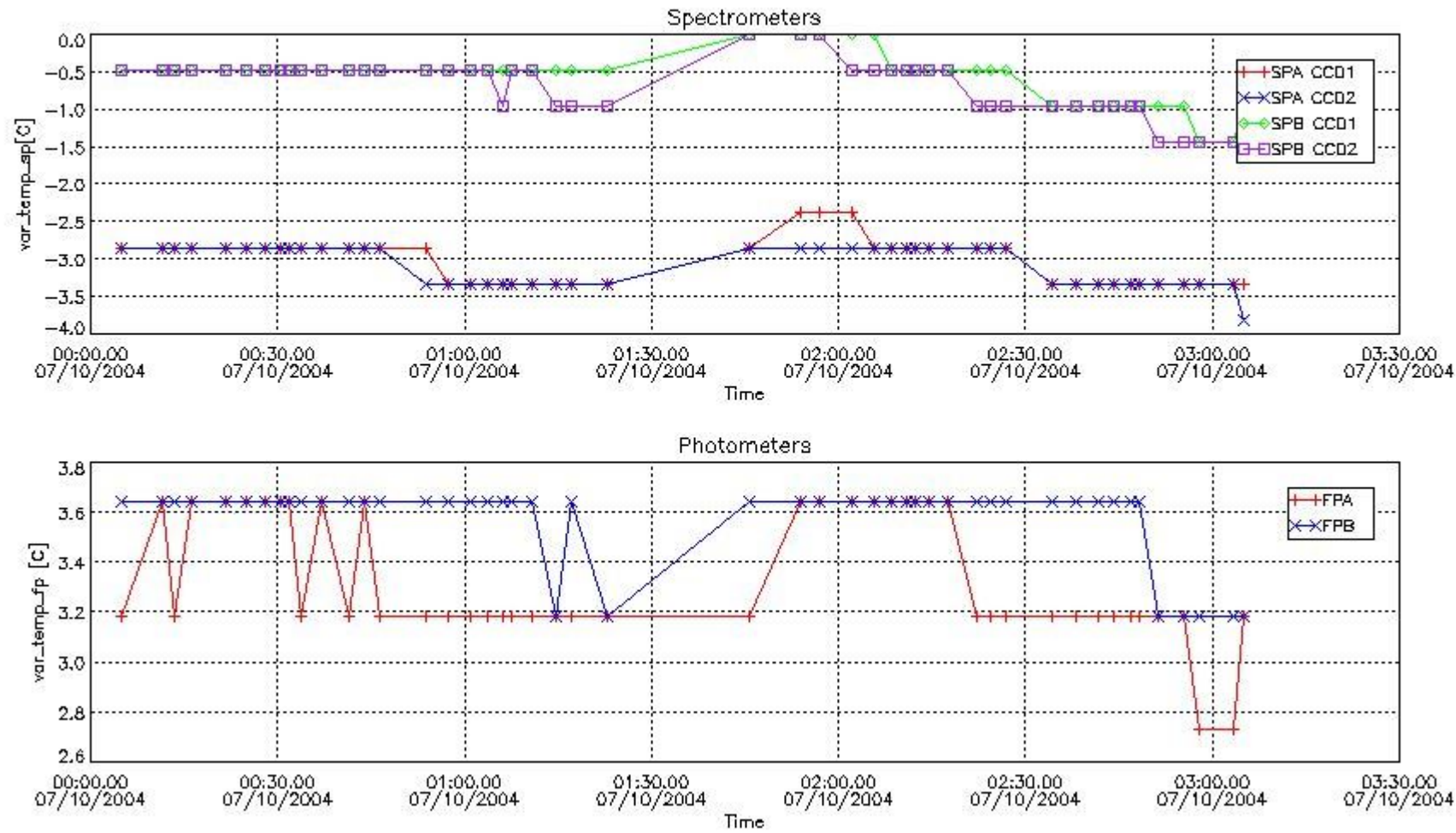
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20041007_000458_000001042031_00030_13611_0000.N1	07-OCT-2004 00:04:58	Dark	104.00	8	10Alp CMI	0.40000	6500.0	208	13611	No
GOM_TRA_1PNPDE20041007_001129_000000542031_00030_13611_0001.N1	07-OCT-2004 00:11:29	Dark	53.500	132	15Rho Pup	2.8030	6900.0	107	13611	No
GOM_TRA_1PNPDE20041007_001321_000000472031_00030_13611_0002.N1	07-OCT-2004 00:13:21	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	13611	No
GOM_TRA_1PNPDE20041007_001612_000000502031_00030_13611_0003.N1	07-OCT-2004 00:16:12	Dark	50.000	34	Gam2Vel	1.7930	23000.	100	13611	No
GOM_TRA_1PNPDE20041007_002135_000000612031_00031_13612_0004.N1	07-OCT-2004 00:21:35	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	13612	No
GOM_TRA_1PNPDE20041007_002500_000000662031_00031_13612_0005.N1	07-OCT-2004 00:25:00	Dark	65.500	108	Alp Col	2.6520	15200.	131	13612	No
GOM_TRA_1PNPDE20041007_002751_000000402031_00031_13612_0006.N1	07-OCT-2004 00:27:51	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	13612	No
GOM_TRA_1PNPDE20041007_003022_000000412031_00031_13612_0007.N1	07-OCT-2004 00:30:22	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	13612	No
GOM_TRA_1PNPDE20041007_003150_000000392031_00031_13612_0008.N1	07-OCT-2004 00:31:50	Dark	39.000	9	Alp Eri	0.45300	24000.	78	13612	No
GOM_TRA_1PNPDE20041007_003353_000000522031_00031_13612_0009.N1	07-OCT-2004 00:33:53	Dark	52.000	157	The1Eri	2.9060	9300.0	104	13612	No
GOM_TRA_1PNPDE20041007_003702_000000432031_00031_13612_0010.N1	07-OCT-2004 00:37:02	Twilight	42.500	84	Alp Phe	2.3970	4500.0	85	13612	No
GOM_TRA_1PNPDE20041007_004134_000000482031_00031_13612_0011.N1	07-OCT-2004 00:41:34	Bright	47.500	18	24Alp PsA	1.1660	9700.0	95	13612	No
GOM_TRA_1PNPDE20041007_004347_000000462031_00031_13612_0012.N1	07-OCT-2004 00:43:47	Bright	45.500	52	16Bet Cet	2.0370	4500.0	91	13612	No
GOM_TRA_1PNPDE20041007_004618_000002142031_00031_13612_0013.N1	07-OCT-2004 00:46:18	Bright	214.00	165	34Gam Eri	2.9500	3200.0	428	13612	No
GOM_TRA_1PNPDE20041007_005348_000000402031_00031_13612_0014.N1	07-OCT-2004 00:53:48	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	13612	No
GOM_TRA_1PNPDE20041007_005728_000000392031_00031_13612_0015.N1	07-OCT-2004 00:57:28	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	13612	No
GOM_TRA_1PNPDE20041007_010103_000000482031_00031_13612_0016.N1	07-OCT-2004 01:01:03	Bright	48.000	53	43Bet And	2.0480	3300.0	96	13612	No
GOM_TRA_1PNPDE20041007_010336_000000542031_00031_13612_0017.N1	07-OCT-2004 01:03:36	Bright	54.000	173	4Bet Tri	3.0040	8900.0	108	13612	No
GOM_TRA_1PNPDE20041007_010611_000000432031_00031_13612_0018.N1	07-OCT-2004 01:06:11	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	13612	No
GOM_TRA_1PNPDE20041007_010737_000000412031_00031_13612_0019.N1	07-OCT-2004 01:07:37	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	13612	No
GOM_TRA_1PNPDE20041007_011043_000000492031_00031_13612_0020.N1	07-OCT-2004 01:10:43	Bright	49.000	160	23Gam Per	2.9300	4700.0	98	13612	No
GOM_TRA_1PNPDE20041007_011444_000000402031_00031_13612_0021.N1	07-OCT-2004 01:14:44	Bright	39.500	49	1Alp UMi	1.9900	6300.0	79	13612	No
GOM_TRA_1PNPDE20041007_011713_000000392031_00031_13612_0022.N1	07-OCT-2004 01:17:13	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	13612	No
GOM_TRA_1PNPDE20041007_012251_000000392031_00031_13612_0023.N1	07-OCT-2004 01:22:51	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	13612	No
GOM_TRA_1PNPDE20041007_014535_000000892031_00031_13612_0000.N1	07-OCT-2004 01:45:35	Dark	88.500	8	10Alp CMI	0.40000	6500.0	177	13612	No
GOM_TRA_1PNPDE20041007_015358_000000512031_00031_13612_0001.N1	07-OCT-2004 01:53:58	Dark	50.500	65	Lam Vel	2.2040	4400.0	101	13612	No
GOM_TRA_1PNPDE20041007_015648_000000452031_00031_13612_0002.N1	07-OCT-2004 01:56:48	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	13612	No
GOM_TRA_1PNPDE20041007_020211_000000512031_00032_13613_0003.N1	07-OCT-2004 02:02:11	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	13613	No
GOM_TRA_1PNPDE20041007_020538_000000662031_00032_13613_0004.N1	07-OCT-2004 02:05:38	Dark	66.000	108	Alp Col	2.6520	15200.	132	13613	No
GOM_TRA_1PNPDE20041007_020827_000000422031_00032_13613_0005.N1	07-OCT-2004 02:08:27	Dark	41.500	135	Bet Hyi	2.8200	5800.0	83	13613	No
GOM_TRA_1PNPDE20041007_021058_000000422031_00032_13613_0006.N1	07-OCT-2004 02:10:58	Dark	42.000	143	Alp Hyi	2.8570	7200.0	84	13613	No
GOM_TRA_1PNPDE20041007_021226_000000462031_00032_13613_0007.N1	07-OCT-2004 02:12:26	Dark	45.500	9	Alp Eri	0.45300	24000.	91	13613	No
GOM_TRA_1PNPDE20041007_021430_000000512031_00032_13613_0008.N1	07-OCT-2004 02:14:30	Dark	50.500	157	The1Eri	2.9060	9300.0	101	13613	No
GOM_TRA_1PNPDE20041007_021738_000000442031_00032_13613_0009.N1	07-OCT-2004 02:17:38	Twilight	43.500	84	Alp Phe	2.3970	4500.0	87	13613	No
GOM_TRA_1PNPDE20041007_022210_000000422031_00032_13613_0010.N1	07-OCT-2004 02:22:10	Bright	42.000	18	24Alp PsA	1.1660	9700.0	84	13613	No
GOM_TRA_1PNPDE20041007_022422_000000492031_00032_13613_0011.N1	07-OCT-2004 02:24:22	Bright	48.500	52	16Bet Cet	2.0370	4500.0	97	13613	No
GOM_TRA_1PNPDE20041007_022652_000002142031_00032_13613_0012.N1	07-OCT-2004 02:26:52	Bright	214.00	165	34Gam Eri	2.9500	3200.0	428	13613	No
GOM_TRA_1PNPDE20041007_023423_000000412031_00032_13613_0013.N1	07-OCT-2004 02:34:23	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	13613	No
GOM_TRA_1PNPDE20041007_023804_000000382031_00032_13613_0014.N1	07-OCT-2004 02:38:04	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	13613	No
GOM_TRA_1PNPDE20041007_024138_000000472031_00032_13613_0015.N1	07-OCT-2004 02:41:38	Bright	47.000	53	43Bet And	2.0480	3300.0	94	13613	No
GOM_TRA_1PNPDE20041007_024411_000000532031_00032_13613_0016.N1	07-OCT-2004 02:44:11	Bright	52.500	173	4Bet Tri	3.0040	8900.0	105	13613	No
GOM_TRA_1PNPDE20041007_024647_000000432031_00032_13613_0017.N1	07-OCT-2004 02:46:47	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	13613	No
GOM_TRA_1PNPDE20041007_024813_000000402031_00032_13613_0018.N1	07-OCT-2004 02:48:13	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	13613	No
GOM_TRA_1PNPDE20041007_025118_000000522031_00032_13613_0019.N1	07-OCT-2004 02:51:18	Bright	51.500	160	23Gam Per	2.9300	4700.0	103	13613	No
GOM_TRA_1PNPDE20041007_025519_000000392031_00032_13613_0020.N1	07-OCT-2004 02:55:19	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13613	No
GOM_TRA_1PNPDE20041007_025748_000000412031_00032_13613_0000.N1	07-OCT-2004 02:57:48	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	13613	No
GOM_TRA_1PNPDE20041007_030327_000000402031_00032_13613_0001.N1	07-OCT-2004 03:03:27	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13613	No
GOM_TRA_1PNPDE20041007_030458_000000522031_00032_13613_0002.N1	07-OCT-2004 03:04:58	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	13613	No

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



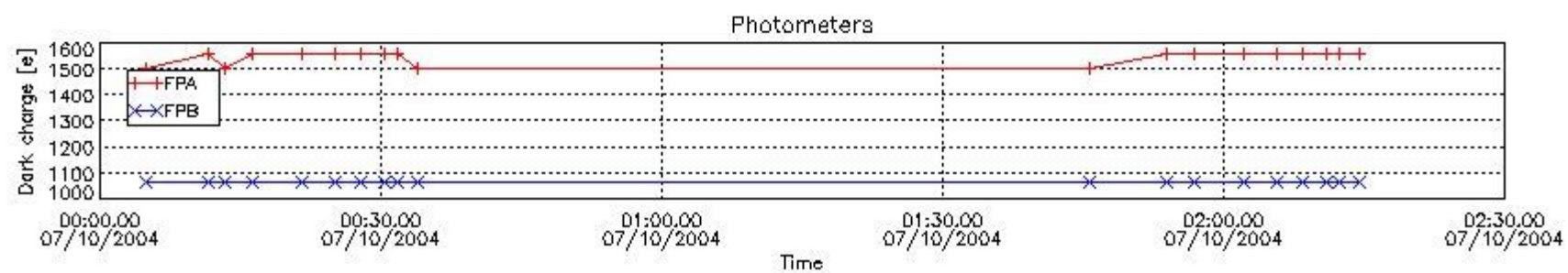
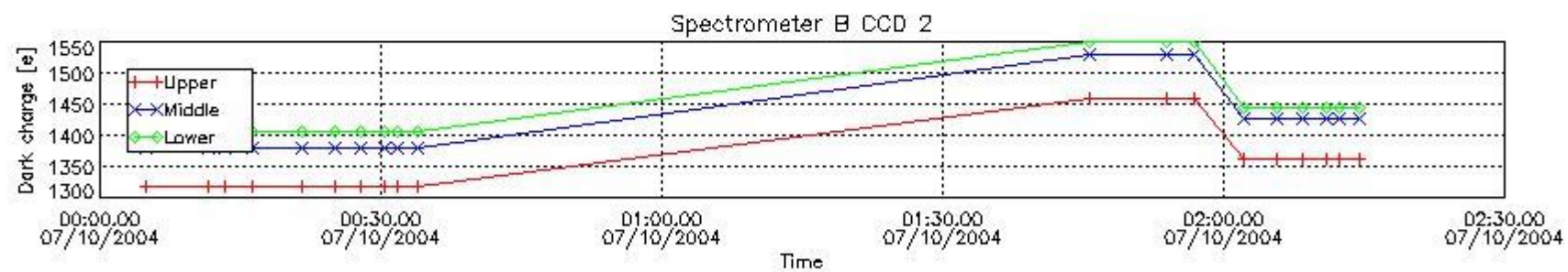
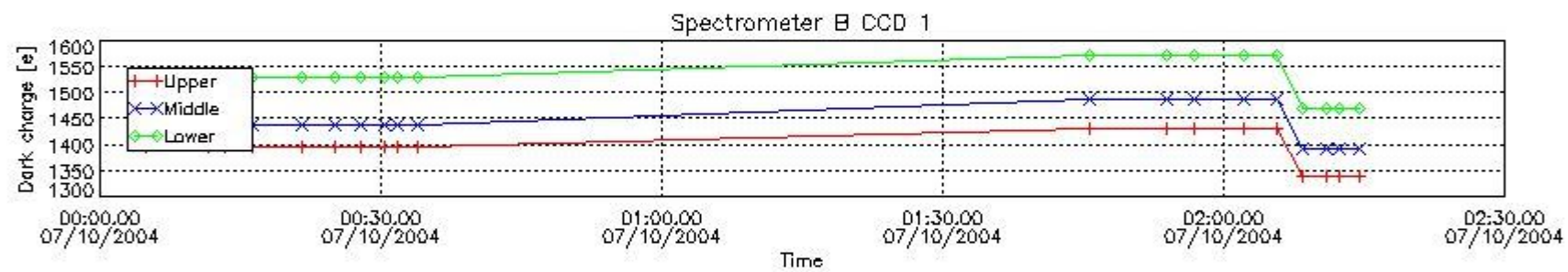
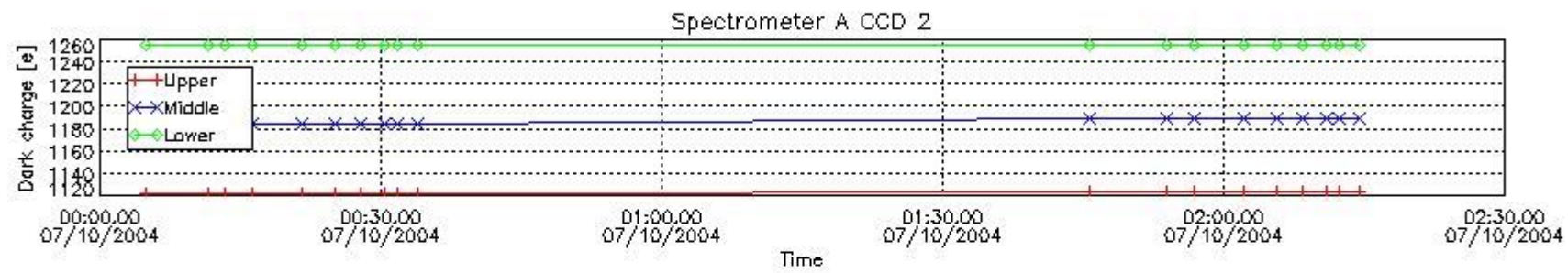
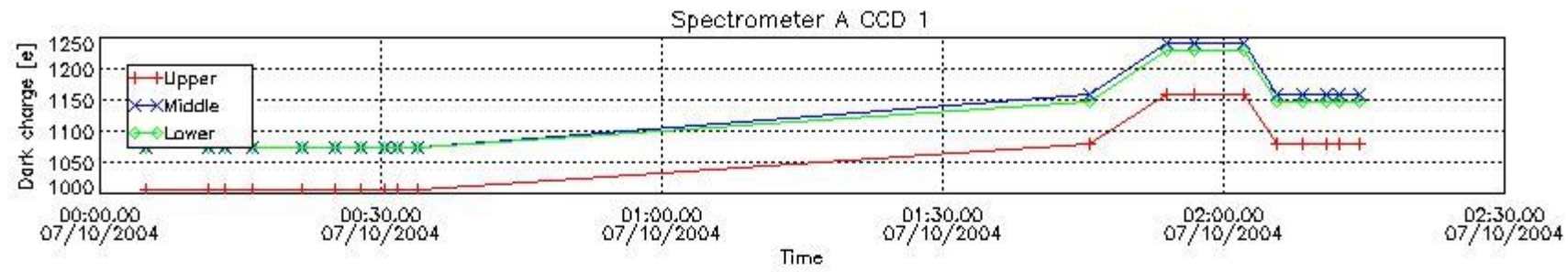
4. Overview of dark signal processing per product

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



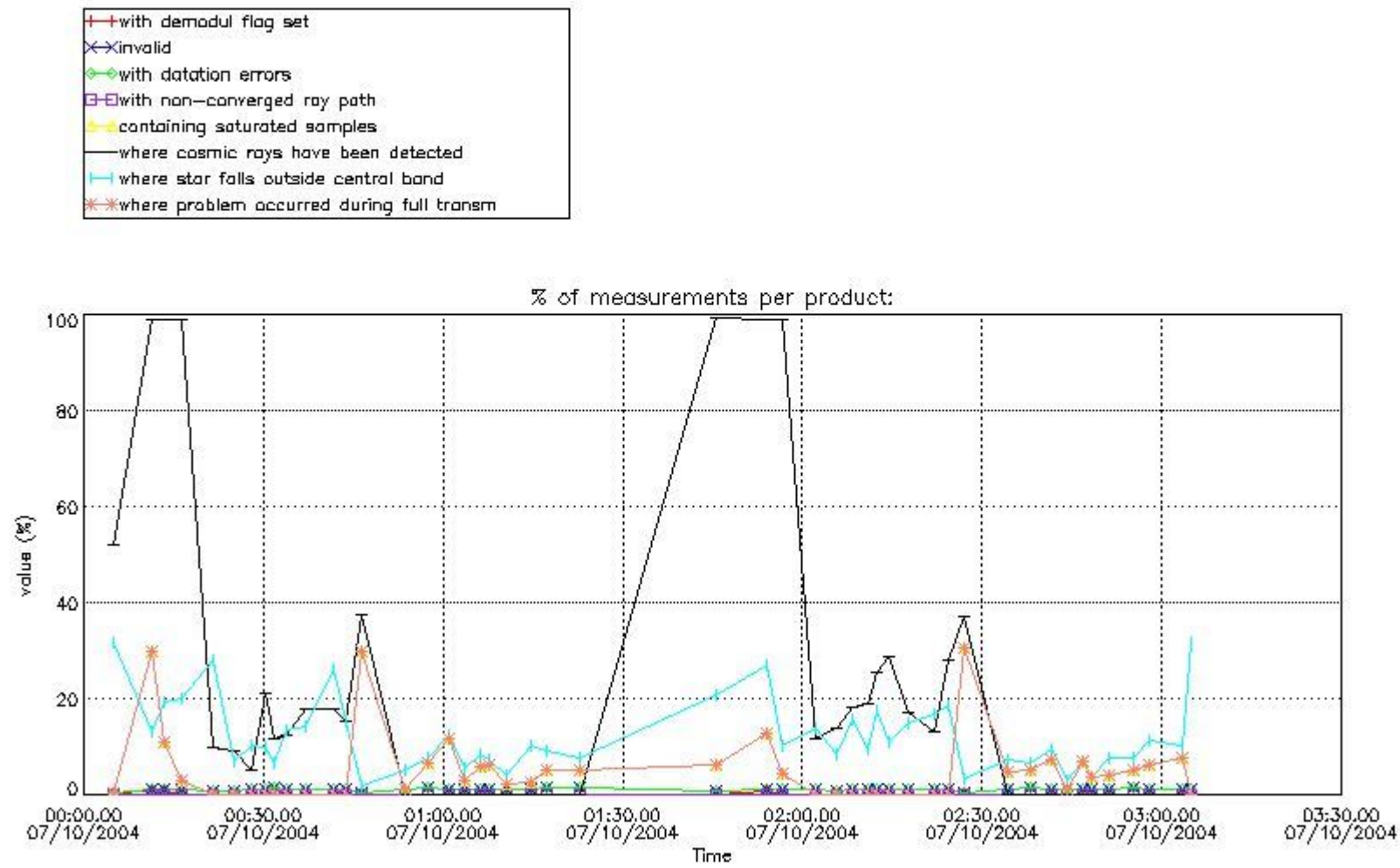
5. Demodulation flag and quality information monitoring

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.

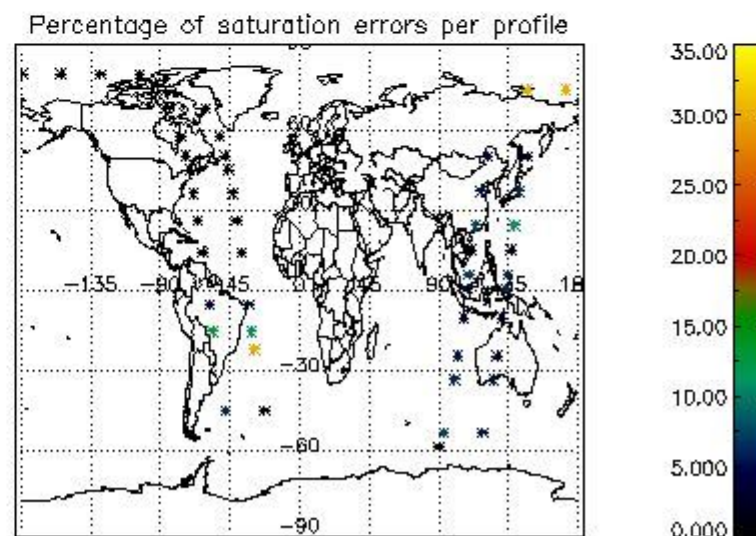
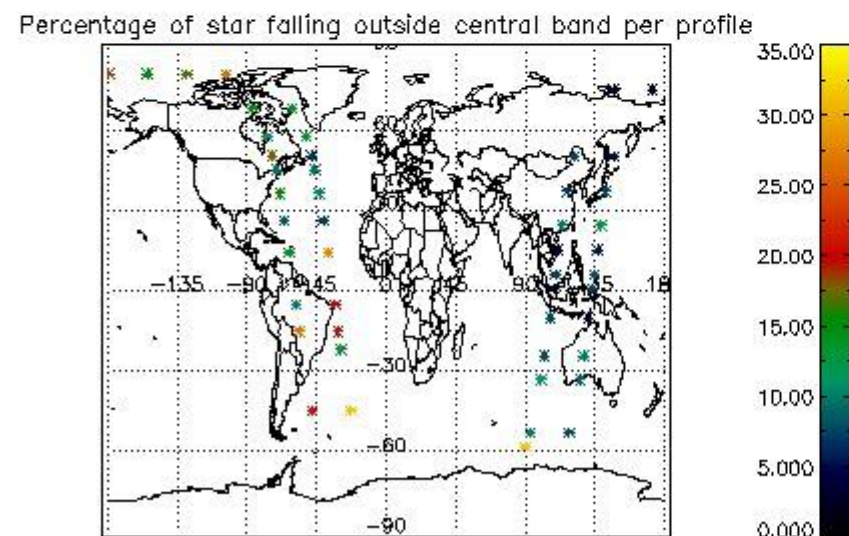
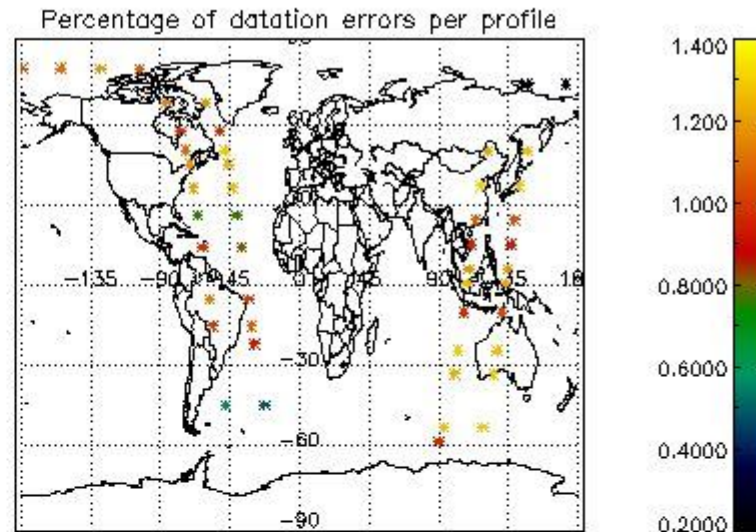
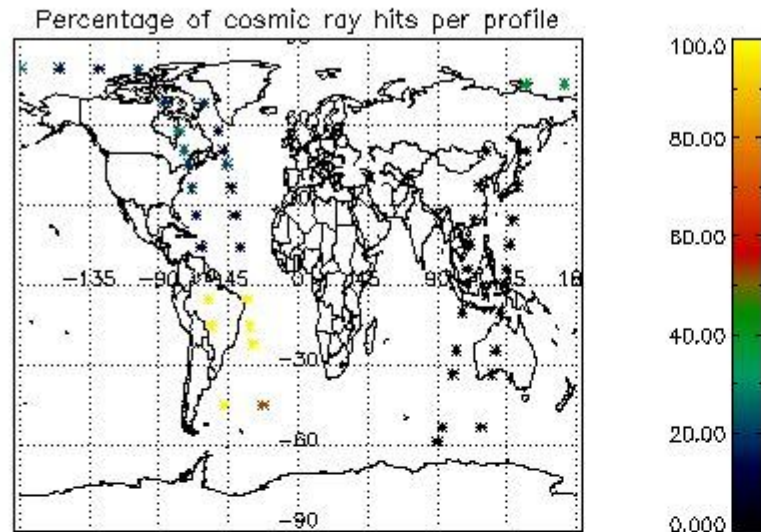
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.5000 %
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)



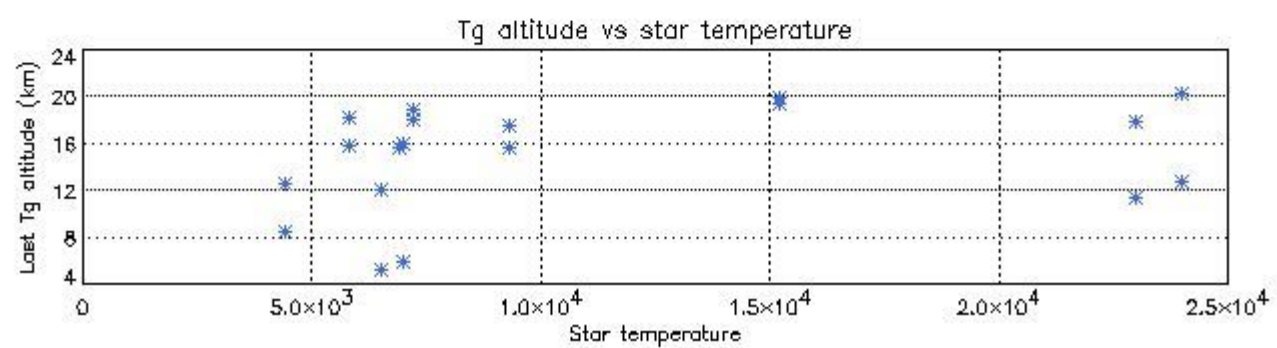
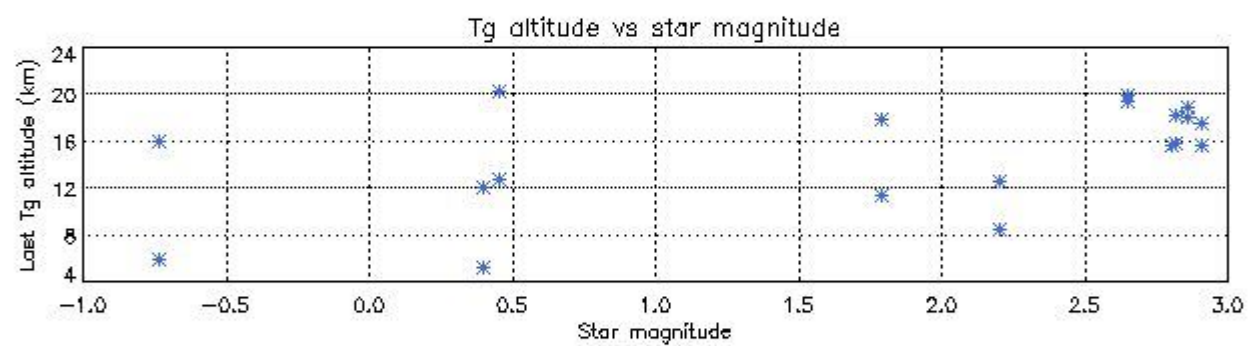
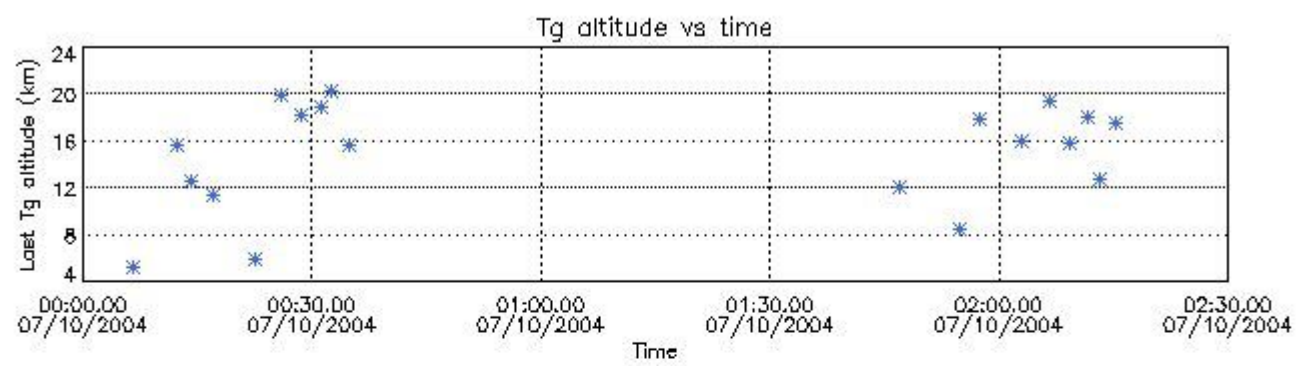
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.803	18.662	14.783
St. deviation:	4.5738	4.5660	0.48837
Maximum:	20.286	24.524	15.129
Minimum:	5.1411	5.0895	14.438
Number of data:	19.000	27.000	2.0000

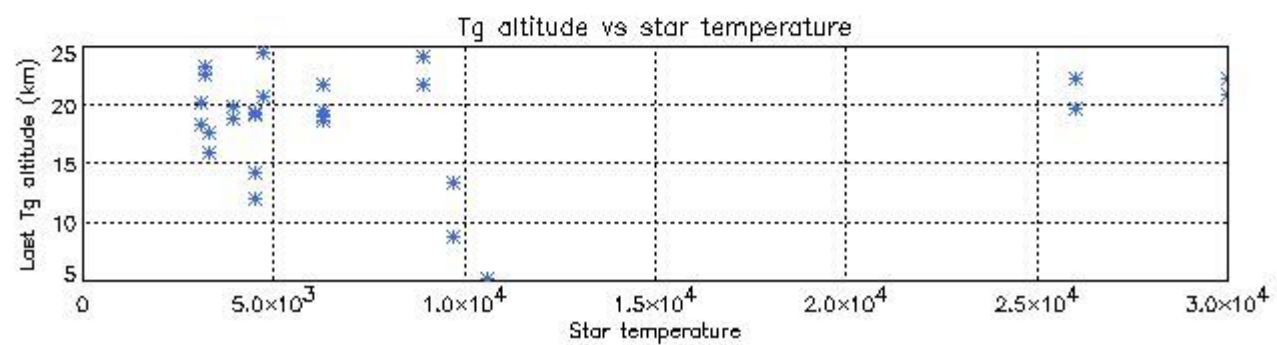
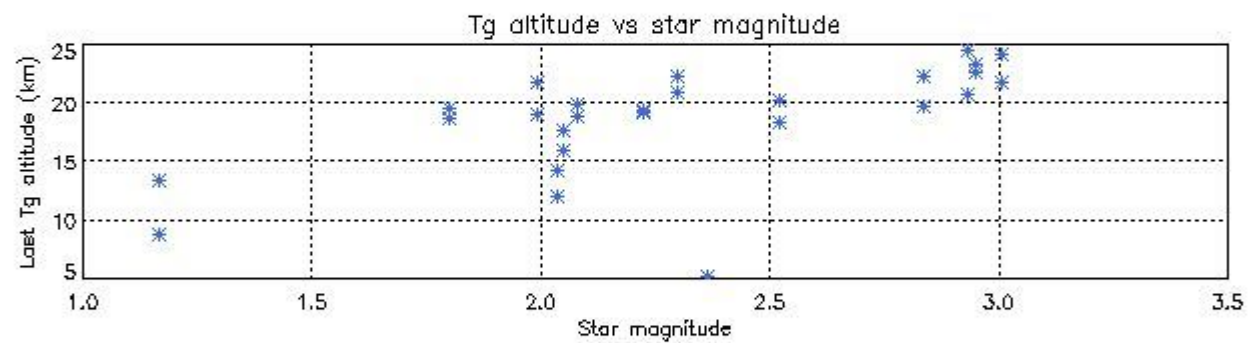
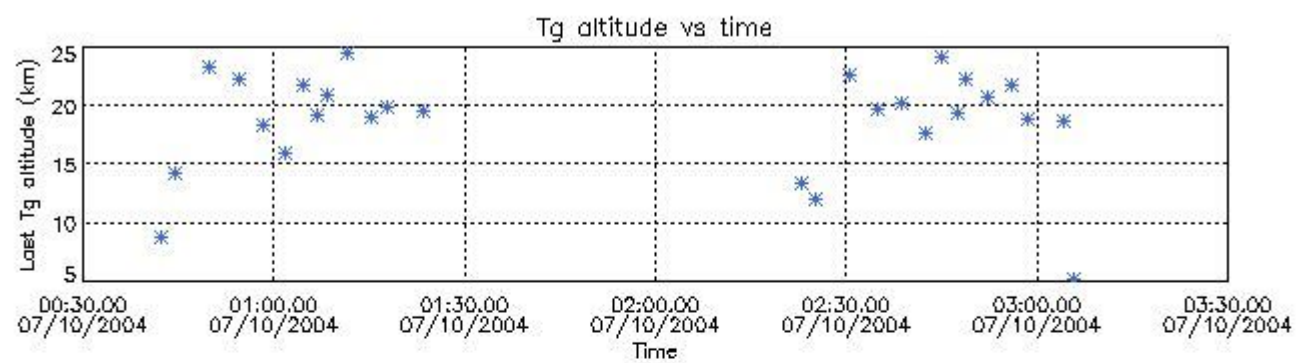
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



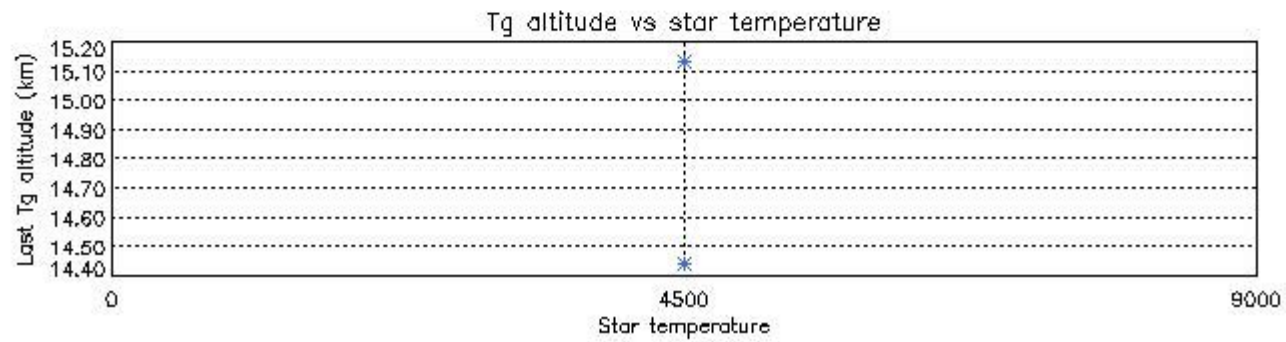
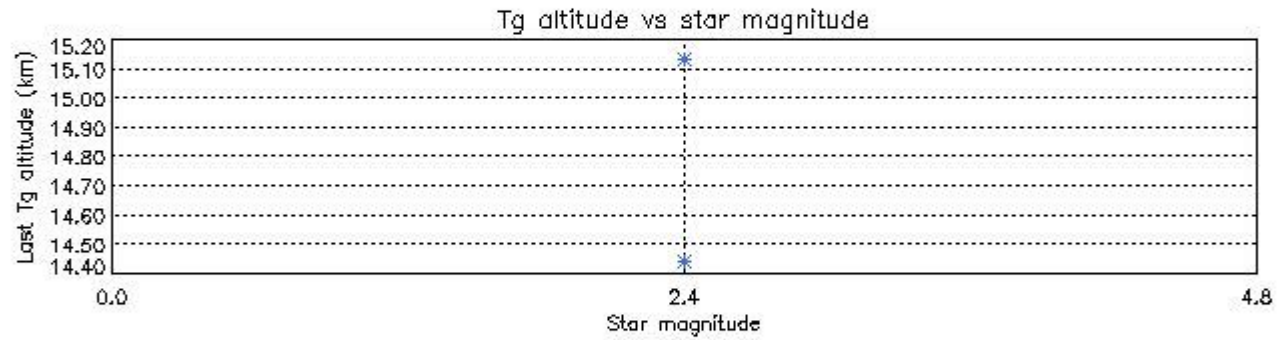
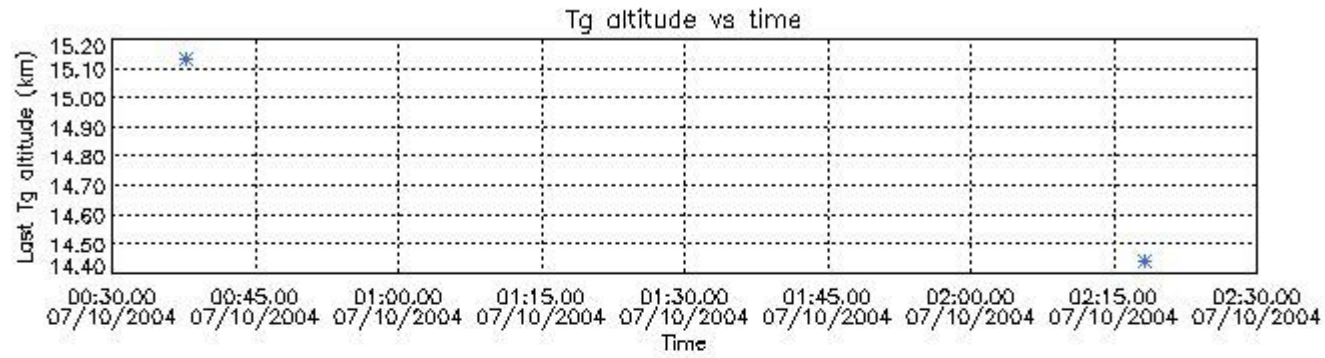
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

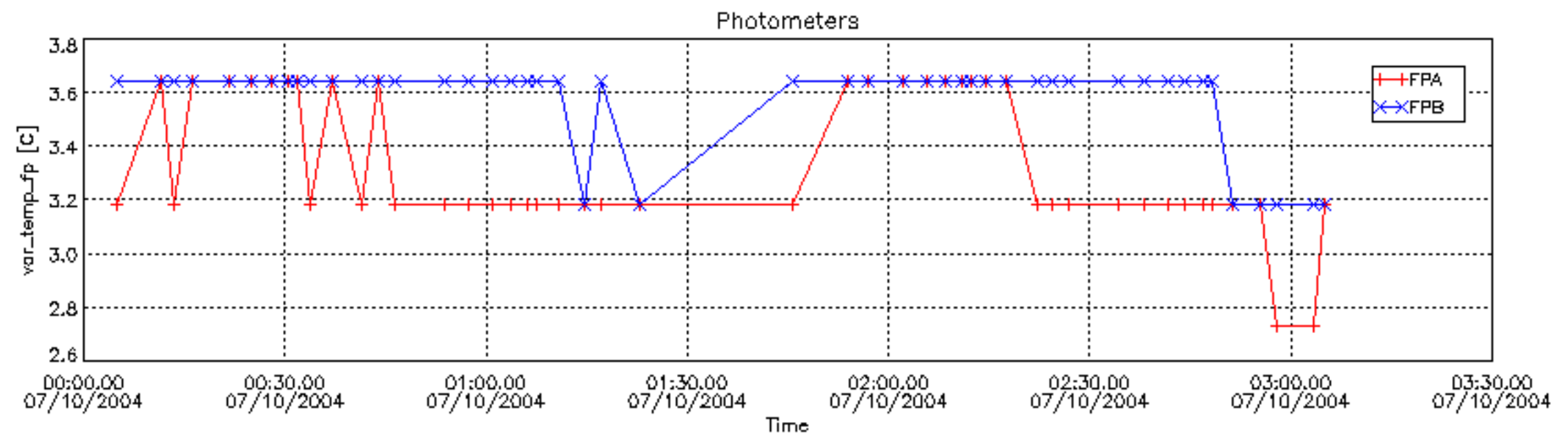
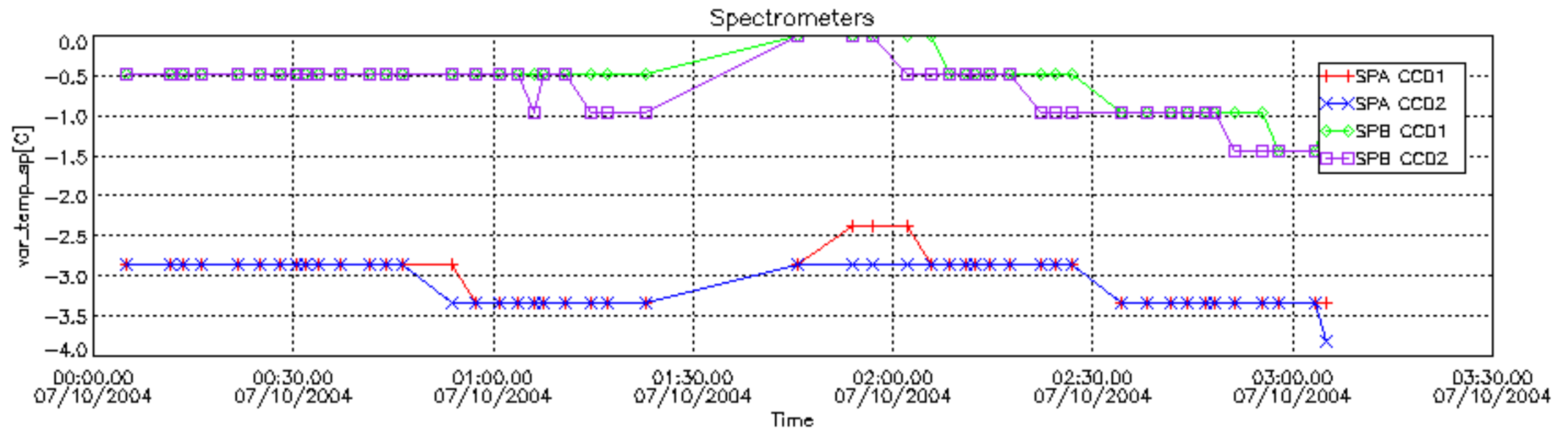
Tangent altitude at which the star is lost

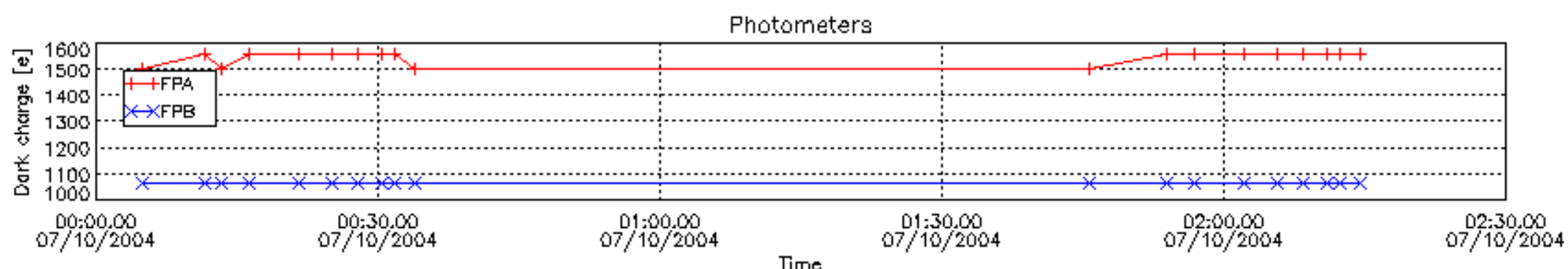
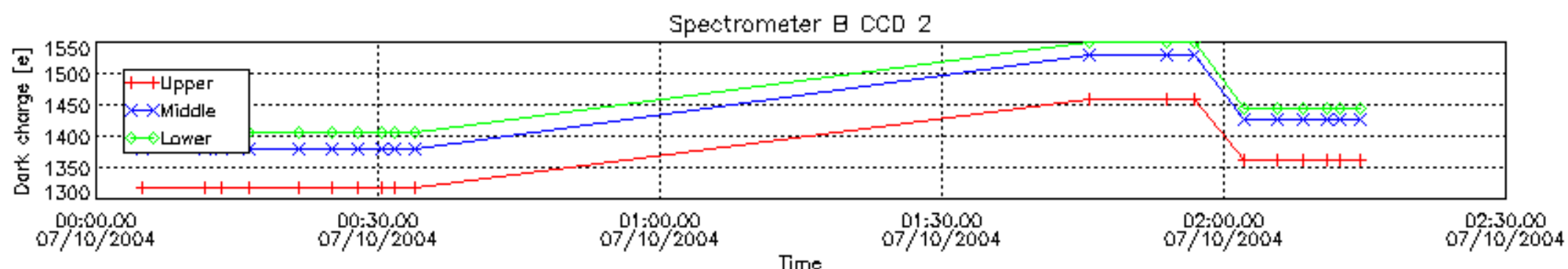
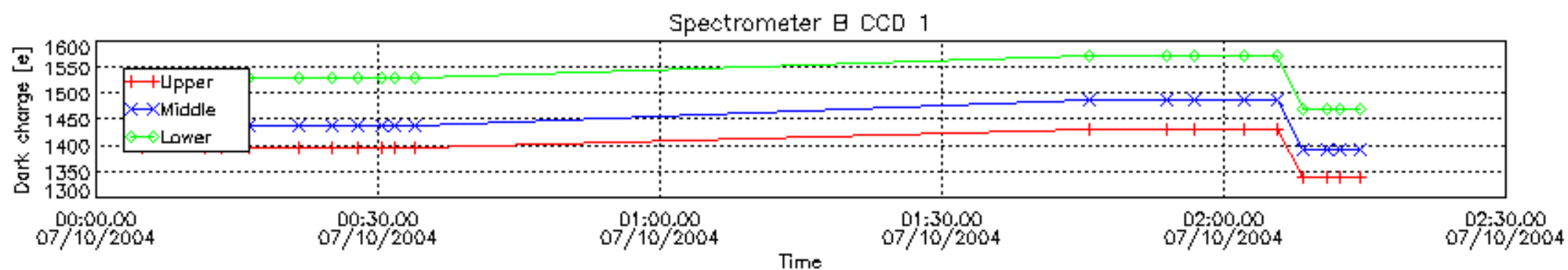
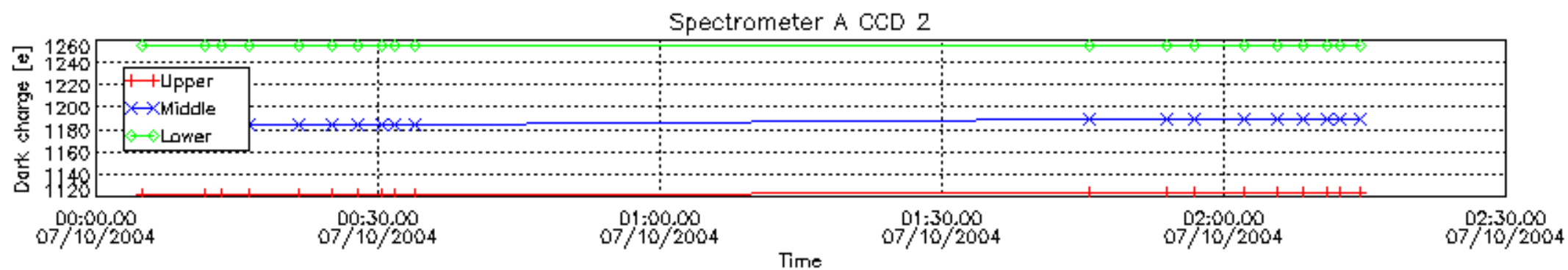
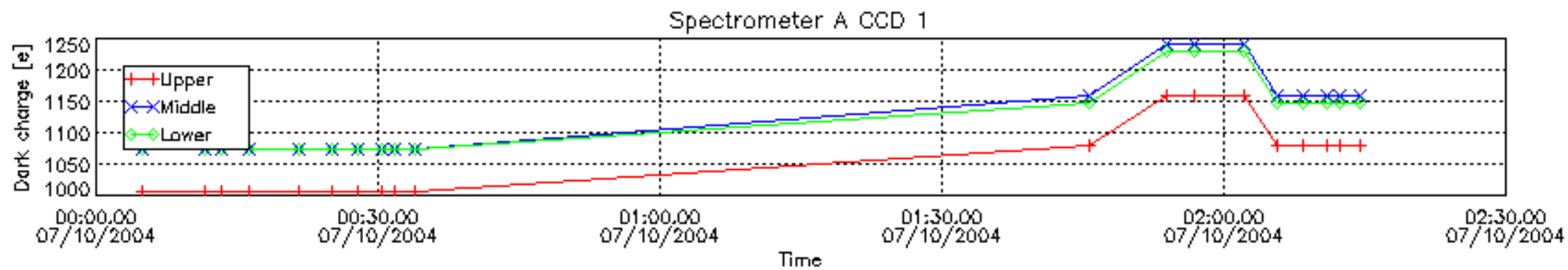


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

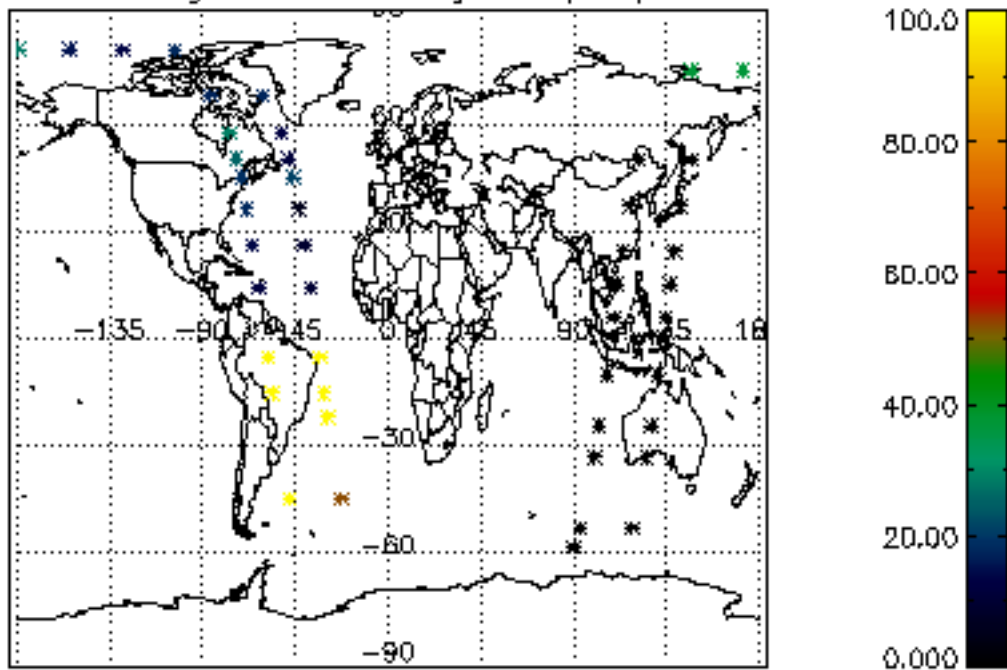
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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	1447.9	1461.7	1447.7
St. deviation:	5.3575	6.2148	6.0272	6.9296
Maximum:	1501.0	1487.0	1524.0	1500.0
Minimum:	1435.0	1410.0	1426.0	1412.0
Number of data:	26100.	26100.	36200.	36200.

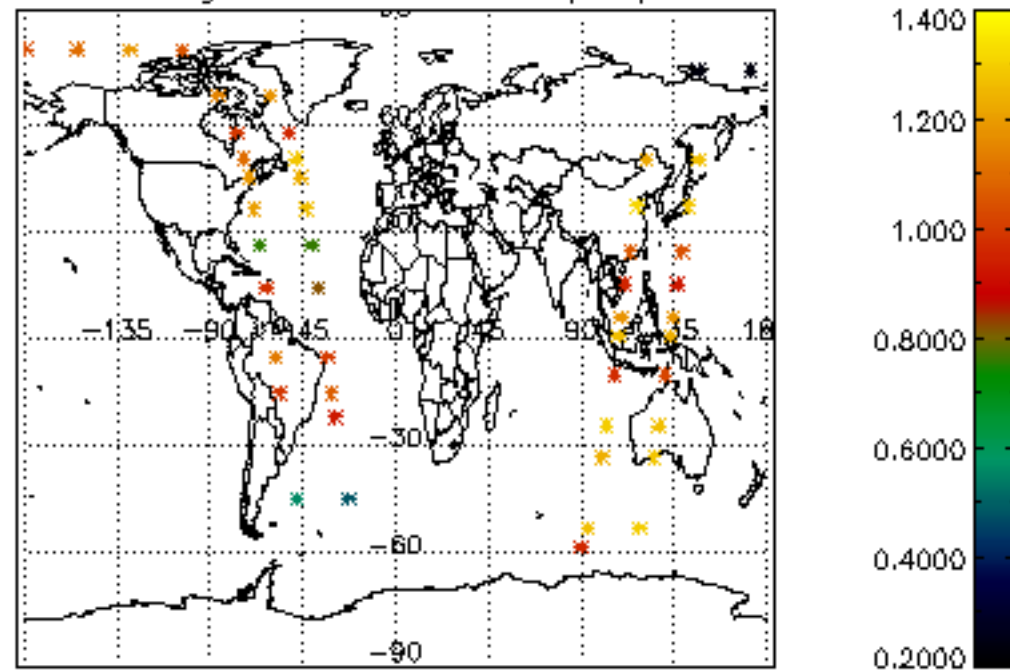




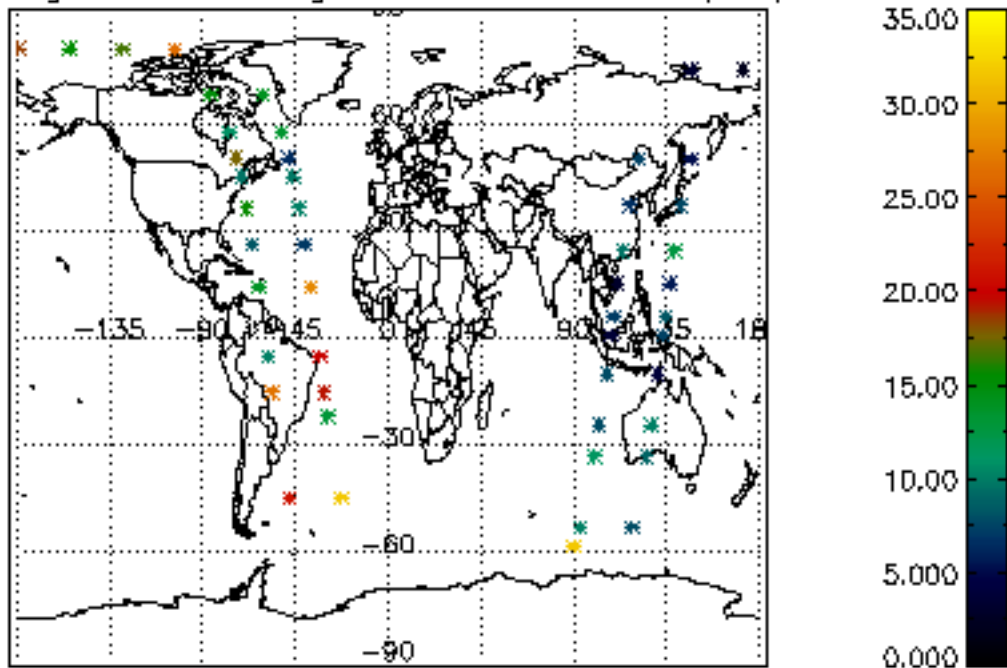
Percentage of cosmic ray hits per profile



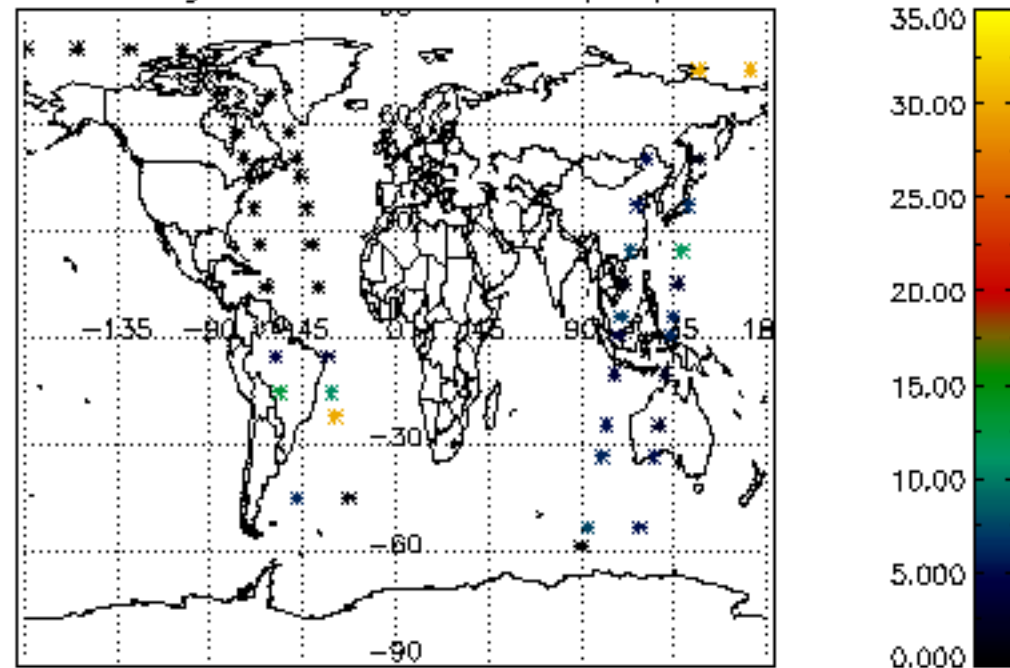
Percentage of datation errors per profile



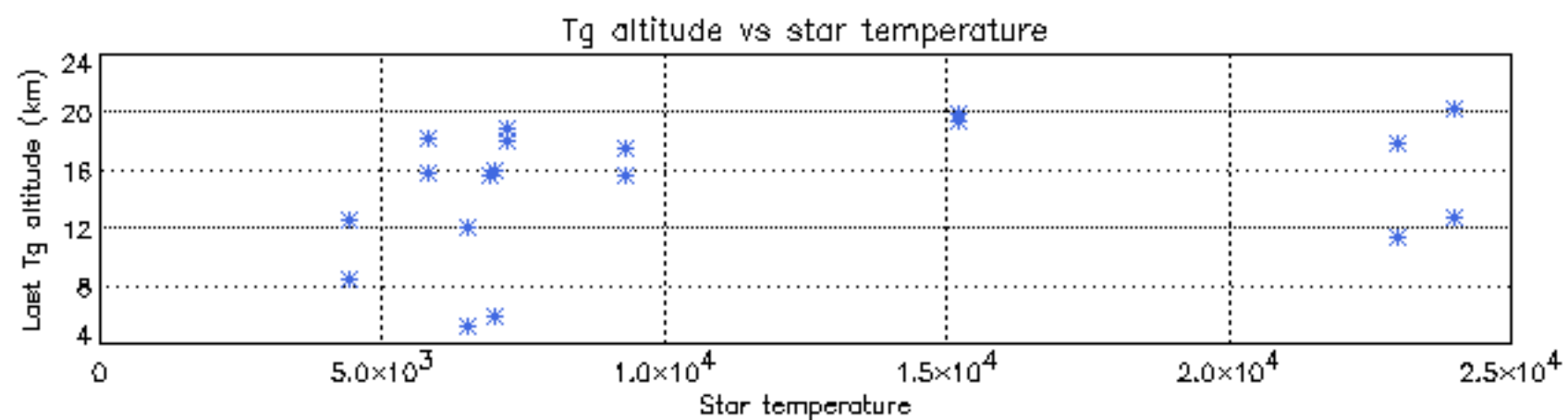
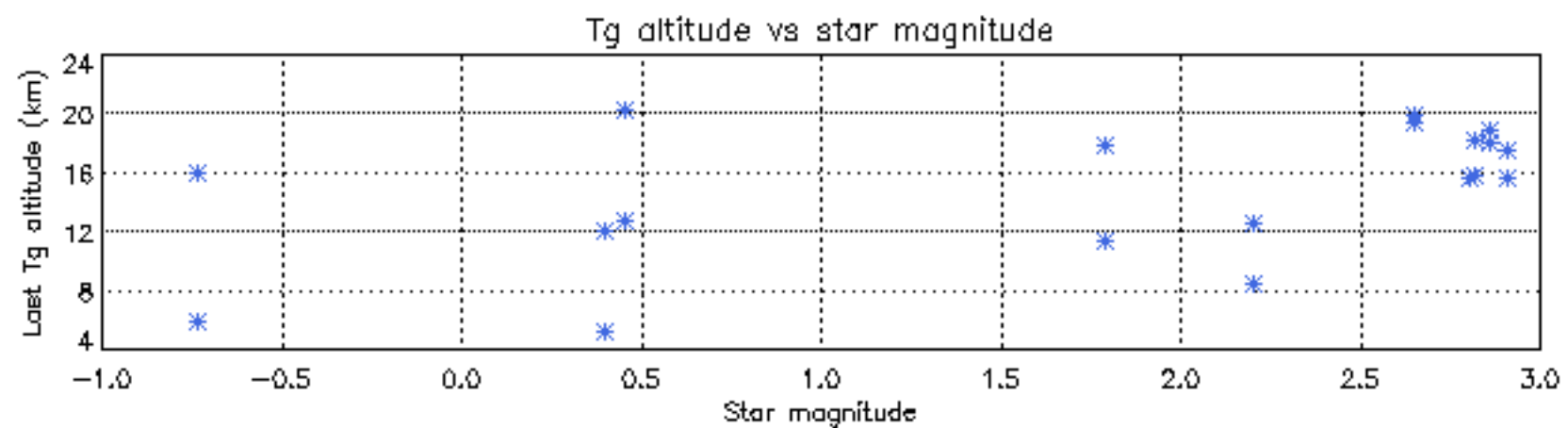
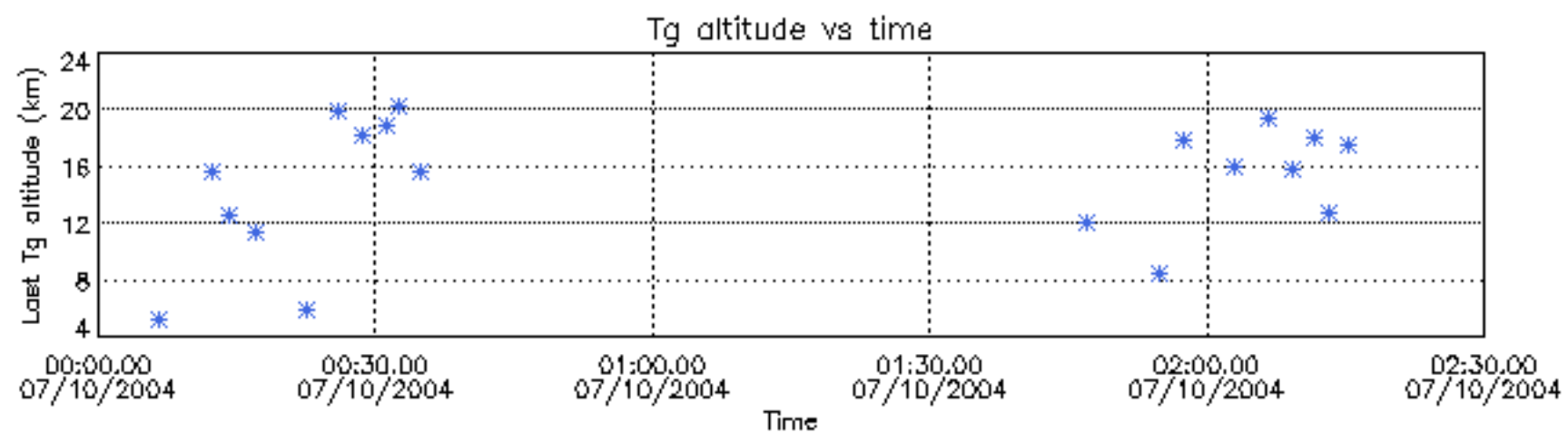
Percentage of star falling outside central band per profile



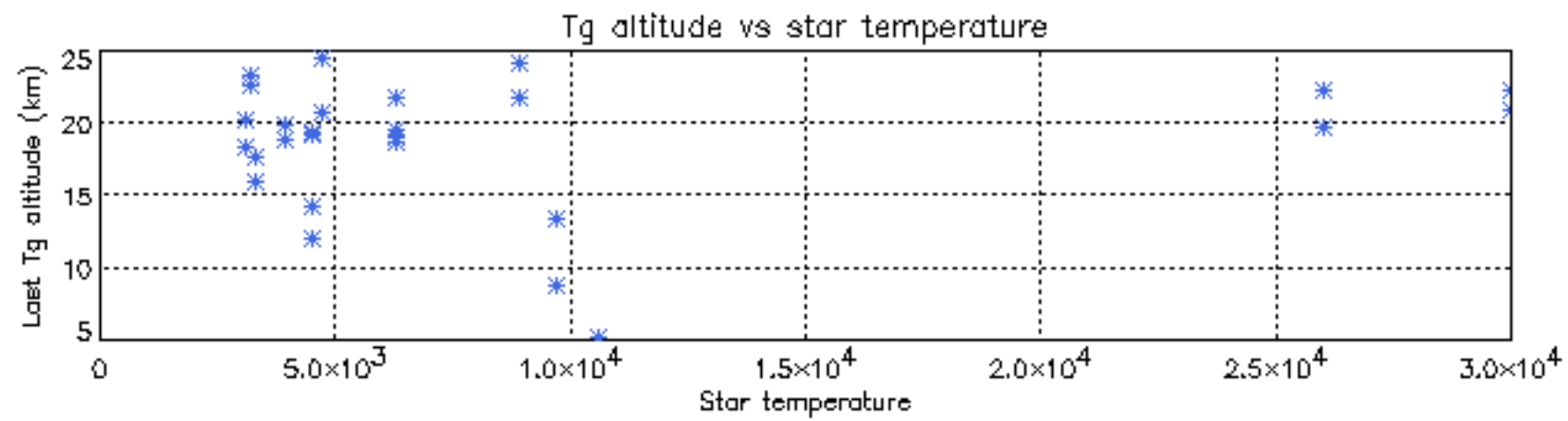
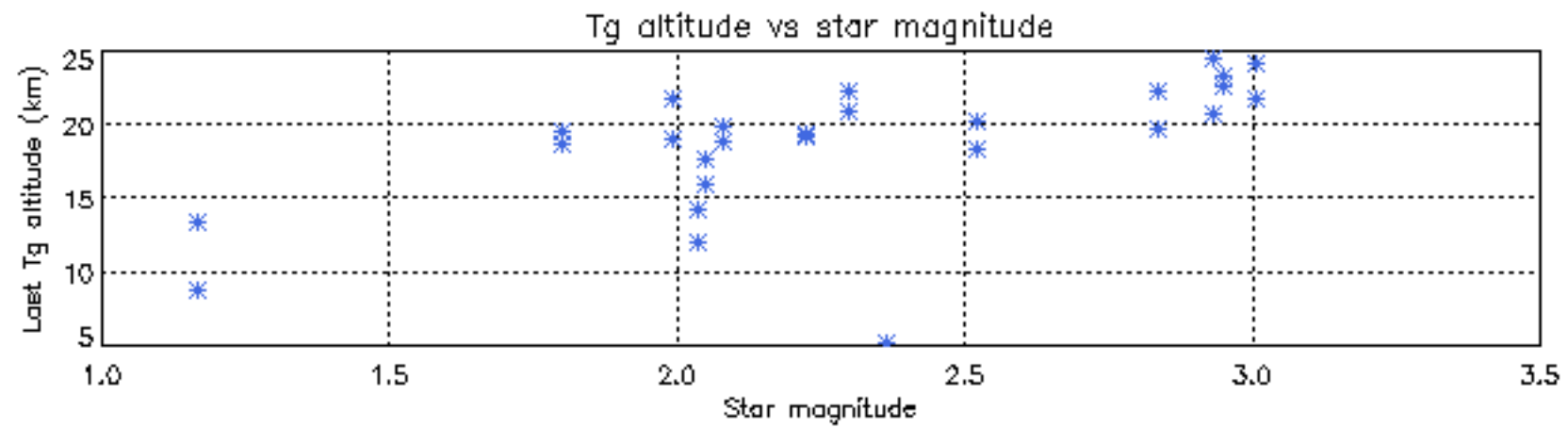
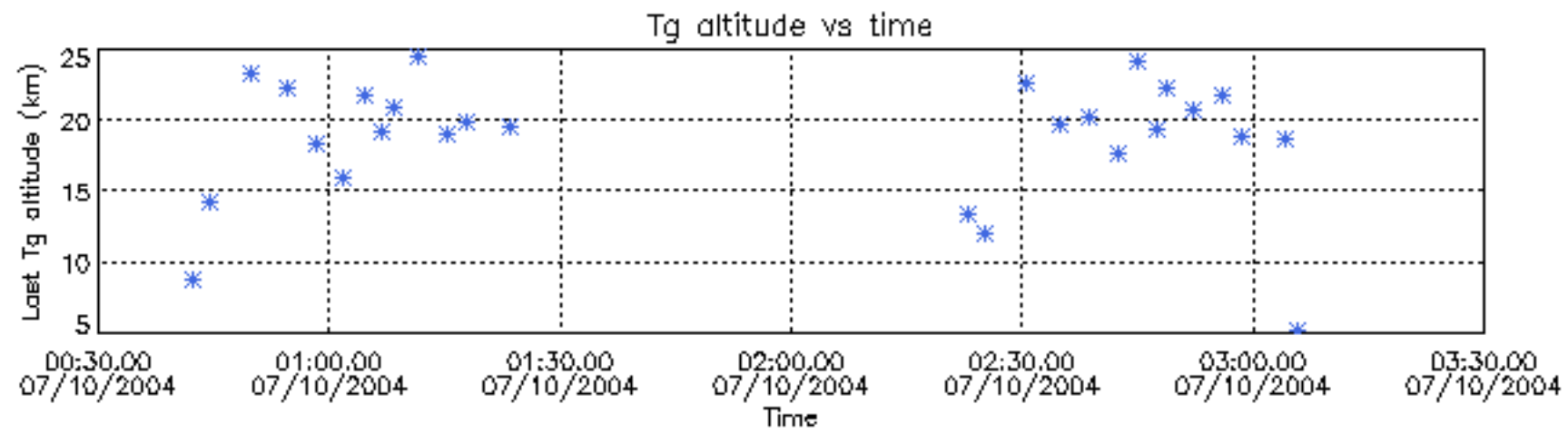
Percentage of saturation errors per profile



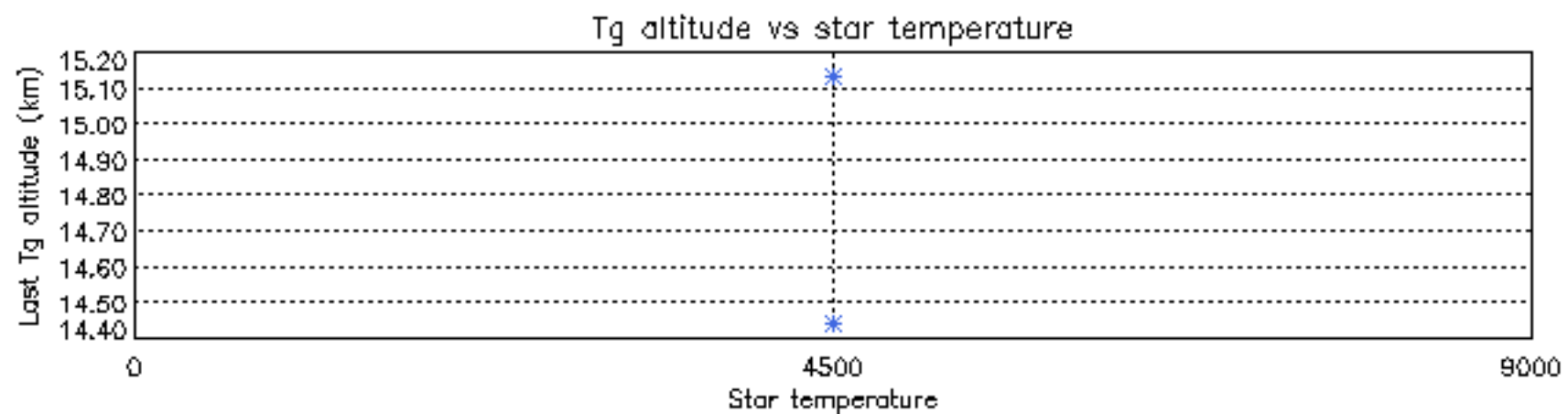
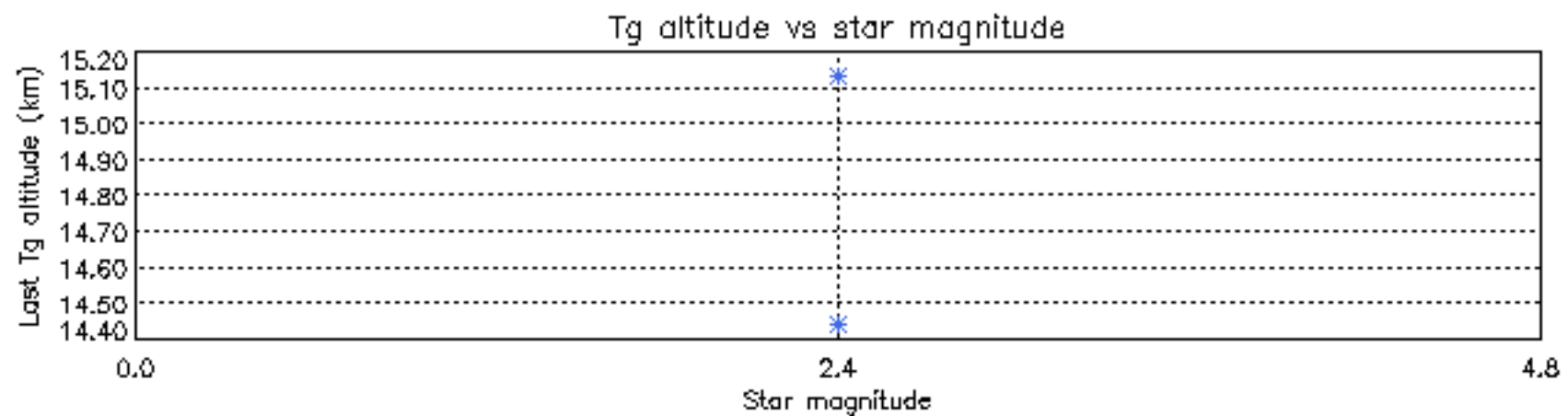
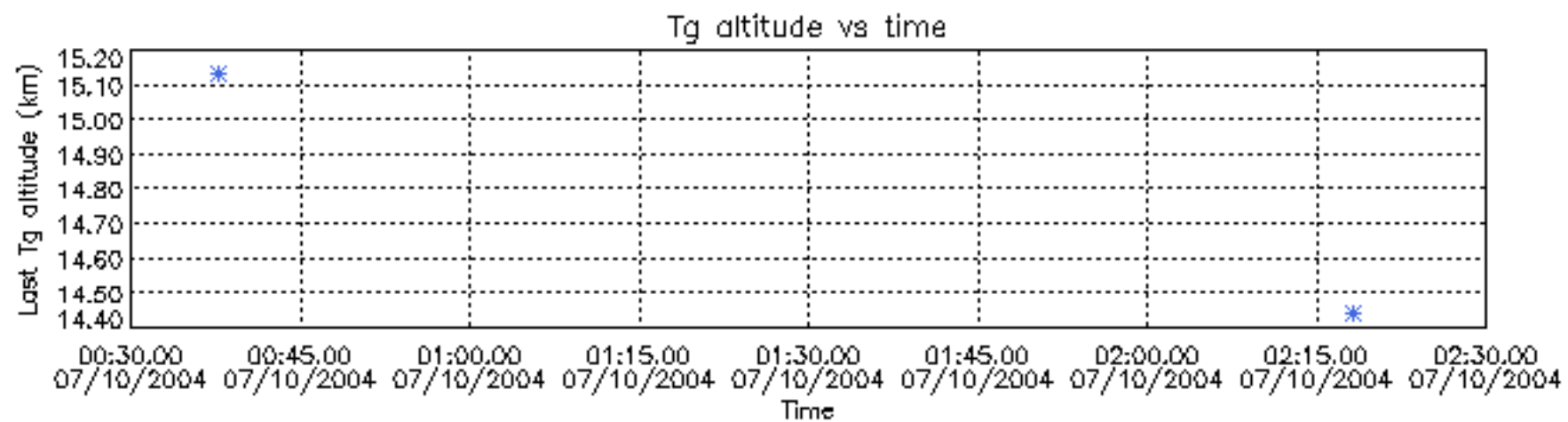
Tangent altitude at which the star is lost



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

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 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
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 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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15; 733.3; 01-OCT-2004 05:20:09; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13529
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21; 1944.6; 01-OCT-2004 05:40:20; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;13529
22; 2166.4; 01-OCT-2004 05:44:02; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13529
23; 2385.0; 01-OCT-2004 05:47:41; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;13529
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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
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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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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
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22; 3023.5; 01-OCT-2004 22:44:19; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13539
23; 3252.2; 01-OCT-2004 22:48:07; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;13539
24; 3426.7; 01-OCT-2004 22:51:02; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13539
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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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
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11; 926.1; 01-OCT-2004 23:49:57; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;13540
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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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28; 2801.1; 04-OCT-2004 04:19:46; Bright; 57.0; 173; 4Bet Tri ; 3.00; 8900;occ; 114; 0;13571
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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
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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
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10;	841.3;	05-OCT-2004	01:34:54;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;	13584
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12;	1155.4;	05-OCT-2004	01:40:08;	Dark	;	45.5;	84;	Alp Phe	;	2.40;	4500;occ;	91;	0;	13584
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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	
20;	3209.3;	05-OCT-2004	02:14:22;	Bright;	52.0;	160;	23Gam Per	;	2.93;	4700;occ;	104;	0;	13584	
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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2;	-2034.6;	05-OCT-2004	07:29:22;	Bright;	35.5;	82;	48Bet UMA	;	2.37;	10600;occ;	71;	0;	13587	
3;	-1839.3;	05-OCT-2004	07:32:37;	Bright;	52.0;	174;	52Psi UMA	;	3.00;	4400;occ;	104;	0;	13587	
4;	-1730.1;	05-OCT-2004	07:34:26;	Bright;	106.0;	107;	37The Aur	;	2.65;	11000;occ;	212;	0;	13587	
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6;	-1166.7;	05-OCT-2004	07:43:50;	Dark	;	133.5;	170;	27Eps Gem	;	3.00;	9700;occ;	267;	0;	13587
7;	-796.3;	05-OCT-2004	07:50:00;	Dark	;	84.5;	8;	10Alp CMI	;	0.40;	6500;occ;	169;	0;	13587
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9;	-268.0;	05-OCT-2004	07:58:49;	Dark	;	46.0;	65;	Lam Vel	;	2.20;	4400;occ;	92;	0;	13587
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12;	220.3;	05-OCT-2004	08:06:57;	Dark	;	47.5;	2;	Alp Car	;	-0.74;	7000;occ;	95;	0;	13588
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15;	755.2;	05-OCT-2004	08:15:52;	Dark	;	40.0;	143;	Alp Hyi	;	2.86;	7200;occ;	80;	0;	13588
16;	842.7;	05-OCT-2004	08:17:19;	Dark	;	46.5;	9;	Alp Eri	;	0.45;	24000;occ;	93;	0;	13588
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19;	1430.3;	05-OCT-2004	08:27:07;	Dark	;	44.5;	18;	24Alp PsA	;	1.17;	9700;occ;	89;	0;	13588
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3;	-3864.0;	05-OCT-2004	08:39:28;	Bright;	36.5;	90;	54Alp Peg	;	2.49;	11000;occ;	73;	0;	13588	
4;	-3648.7;	05-OCT-2004	08:43:04;	Bright;	36.5;	93;	53Bet Peg	;	2.52;	3100;occ;	73;	0;	13588	
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7;	-3114.5;	05-OCT-2004	08:51:58;	Bright;	40.5;	68;	18Alp Cas	;	2.22;	4500;occ;	81;	0;	13588	
8;	-3023.2;	05-OCT-2004	08:53:29;	Bright;	38.0;	89;	5Alp Cep	;	2.45;	8000;occ;	76;	0;	13588	
9;	-2830.8;	05-OCT-2004	08:56:42;	Bright;	49.5;	160;	23Gam Per	;	2.93;	4700;occ;	99;	0;	13588	
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14;	-1838.8;	05-OCT-2004	09:13:14;	Bright;	36.5;	174;	52Psi UMA	;	3.00;	4400;occ;	73;	0;	13588	
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28; 958.9; 05-OCT-2004 09:59:51; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13589
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17;-1512.6; 05-OCT-2004 14:20:28; Bright; 66.5; 24; 66Alp Gem ; 1.58; 10200;occ; 133; 0;13591
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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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12;	-2877.9;	15-OCT-2004	18:45:10;	Bright	;	55.0;	175;	39Del Per	;	3.01;	19400;occ;	110;	0;	13737
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5;	141.7;	16-OCT-2004	00:37:17;	Dark	;	39.0;	29;	Bet Car	;	1.67;	10200;occ;	78;	0;	13741
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 11; 380.6; 19-OCT-2004 07:29:25; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;13788
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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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 22; 2696.4; 24-OCT-2004 05:29:56; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;13858
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 25; 3099.0; 24-OCT-2004 05:36:39; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;13858
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 27; 3630.5; 24-OCT-2004 05:45:30; Bright; 7.0; 60; 7Bet UMi ; 2.08; 3950;occ; 14; 0;13858

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 23; 3633.3; 25-OCT-2004 00:12:08; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13869
 24; 3916.7; 25-OCT-2004 00:16:51; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;13869
 25; 4011.5; 25-OCT-2004 00:18:26; Bright; 44.5; 82; 48Bet UMa ; 2.37; 10600;occ; 89; 0;13869
 26; 4224.6; 25-OCT-2004 00:21:59; Bright; 43.5; 174; 52Psi UMa ; 3.00; 4400;occ; 87; 0;13869
 27; 4672.0; 25-OCT-2004 00:29:27; Bright; 51.5; 166; 17Eps Leo ; 2.98; 6000;occ; 103; 0;13869
 28; 4792.6; 25-OCT-2004 00:31:27; Dark ; 203.0; 17; 78Bet Gem ; 1.16; 4500;occ; 406; 0;13869

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