

GOMOS Daily Report 30-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	01NOV2004 05:01:34
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (30OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (31OCT2004 00:00:00)

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

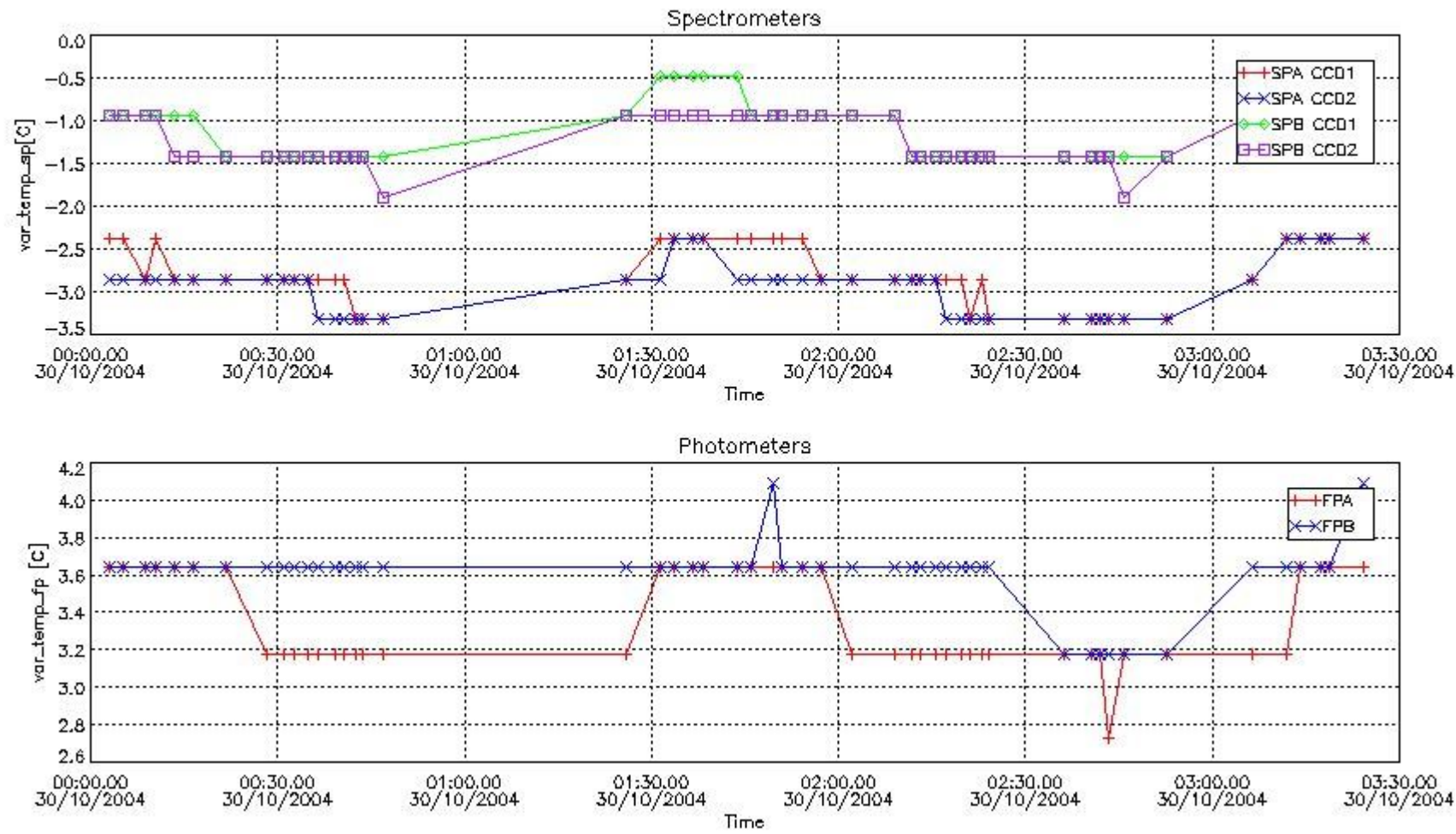
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20041030_000303_000000522031_00360_13941_0005.N1	30-OCT-2004 00:03:03	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	13941	No
GOM_TRA_1PNPDE20041030_000511_000001022031_00360_13941_0006.N1	30-OCT-2004 00:05:11	Dark	101.50	179	24Omi2CMa	3.0320	24000.	203	13941	No
GOM_TRA_1PNPDE20041030_000855_000000412031_00360_13941_0007.N1	30-OCT-2004 00:08:55	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	13941	No
GOM_TRA_1PNPDE20041030_001018_000000442031_00360_13941_0008.N1	30-OCT-2004 00:10:18	Dark	43.500	9	Alp Eri	0.45300	24000.	87	13941	No
GOM_TRA_1PNPDE20041030_001329_000000462031_00360_13941_0009.N1	30-OCT-2004 00:13:29	Dark	45.500	157	The1Eri	2.9060	9300.0	91	13941	No
GOM_TRA_1PNPDE20041030_001632_000001082031_00360_13941_0010.N1	30-OCT-2004 00:16:32	Twilight	107.50	139	9Bet Lep	2.8330	5600.0	215	13941	No
GOM_TRA_1PNPDE20041030_002139_000000432031_00360_13941_0011.N1	30-OCT-2004 00:21:39	Bright	42.500	52	16Bet Cet	2.0370	4500.0	85	13941	No
GOM_TRA_1PNPDE20041030_002815_000000702031_00360_13941_0012.N1	30-OCT-2004 00:28:15	Bright	70.000	94	92Alp Cet	2.5260	3100.0	140	13941	No
GOM_TRA_1PNPDE20041030_003109_000000382031_00360_13941_0013.N1	30-OCT-2004 00:31:09	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	13941	No
GOM_TRA_1PNPDE20041030_003236_000000422031_00360_13941_0014.N1	30-OCT-2004 00:32:36	Bright	42.000	105	6Bet Ari	2.6450	8900.0	84	13941	No
GOM_TRA_1PNPDE20041030_003458_000000412031_00360_13941_0015.N1	30-OCT-2004 00:34:58	Bright	40.500	58	21Alp And	2.0730	11000.	81	13941	No
GOM_TRA_1PNPDE20041030_003635_000000392031_00360_13941_0016.N1	30-OCT-2004 00:36:35	Bright	39.000	53	43Bet And	2.0480	3300.0	78	13941	No
GOM_TRA_1PNPDE20041030_003907_000000422031_00360_13941_0017.N1	30-OCT-2004 00:39:07	Bright	41.500	73	57Gam1And	2.2600	13100.	83	13941	No
GOM_TRA_1PNPDE20041030_004038_000000472031_00360_13941_0018.N1	30-OCT-2004 00:40:38	Bright	46.500	79	26Bet Per	2.3100	13100.	93	13941	No
GOM_TRA_1PNPDE20041030_004226_000000362031_00360_13941_0019.N1	30-OCT-2004 00:42:26	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	13941	No
GOM_TRA_1PNPDE20041030_004338_000000362031_00360_13941_0020.N1	30-OCT-2004 00:43:38	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	13941	No
GOM_TRA_1PNPDE20041030_004657_000000392031_00360_13941_0021.N1	30-OCT-2004 00:46:57	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	13941	No
GOM_TRA_1PNPDE20041030_012550_000000682031_00360_13941_0000.N1	30-OCT-2004 01:25:50	Dark	67.500	48	30Alp Hya	1.9770	4100.0	135	13941	No
GOM_TRA_1PNPDE20041030_013120_000000392031_00360_13941_0001.N1	30-OCT-2004 01:31:20	Dark	38.500	99	Del Cen	2.5750	26000.	77	13941	No
GOM_TRA_1PNPDE20041030_013330_000000402031_00360_13941_0002.N1	30-OCT-2004 01:33:30	Dark	39.500	129	Del Cru	2.7930	26000.	79	13941	No
GOM_TRA_1PNPDE20041030_013645_000000452031_00361_13942_0003.N1	30-OCT-2004 01:36:45	Dark	44.500	71	lot Car	2.2460	7700.0	89	13942	No
GOM_TRA_1PNPDE20041030_013810_000000492031_00361_13942_0004.N1	30-OCT-2004 01:38:10	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	13942	No
GOM_TRA_1PNPDE20041030_014340_000000632031_00361_13942_0005.N1	30-OCT-2004 01:43:40	Dark	63.000	2	Alp Car	-0.73600	7000.0	126	13942	No
GOM_TRA_1PNPDE20041030_014550_000001032031_00361_13942_0006.N1	30-OCT-2004 01:45:50	Dark	102.50	179	24Omi2CMa	3.0320	24000.	205	13942	No
GOM_TRA_1PNPDE20041030_014931_000000392031_00361_13942_0007.N1	30-OCT-2004 01:49:31	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	13942	No
GOM_TRA_1PNPDE20041030_015054_000000432031_00361_13942_0008.N1	30-OCT-2004 01:50:54	Dark	43.000	9	Alp Eri	0.45300	24000.	86	13942	No
GOM_TRA_1PNPDE20041030_015407_000000452031_00361_13942_0009.N1	30-OCT-2004 01:54:07	Dark	44.500	157	The1Eri	2.9060	9300.0	89	13942	No
GOM_TRA_1PNPDE20041030_015709_000001092031_00361_13942_0010.N1	30-OCT-2004 01:57:09	Twilight	108.50	139	9Bet Lep	2.8330	5600.0	217	13942	No
GOM_TRA_1PNPDE20041030_020215_000000452031_00361_13942_0011.N1	30-OCT-2004 02:02:15	Bright	45.000	52	16Bet Cet	2.0370	4500.0	90	13942	No
GOM_TRA_1PNPDE20041030_020853_000000702031_00361_13942_0012.N1	30-OCT-2004 02:08:53	Bright	69.500	94	92Alp Cet	2.5260	3100.0	139	13942	No
GOM_TRA_1PNPDE20041030_021144_000000392031_00361_13942_0013.N1	30-OCT-2004 02:11:44	Bright	38.500	140	88Gam Peg	2.8340	26000.	77	13942	No
GOM_TRA_1PNPDE20041030_021312_000000432031_00361_13942_0014.N1	30-OCT-2004 02:13:12	Bright	43.000	105	6Bet Ari	2.6450	8900.0	86	13942	No
GOM_TRA_1PNPDE20041030_021536_000000392031_00361_13942_0015.N1	30-OCT-2004 02:15:36	Bright	39.000	58	21Alp And	2.0730	11000.	78	13942	No
GOM_TRA_1PNPDE20041030_021710_000000422031_00361_13942_0016.N1	30-OCT-2004 02:17:10	Bright	42.000	53	43Bet And	2.0480	3300.0	84	13942	No
GOM_TRA_1PNPDE20041030_021943_000000412031_00361_13942_0017.N1	30-OCT-2004 02:19:43	Bright	41.000	73	57Gam1And	2.2600	13100.	82	13942	No
GOM_TRA_1PNPDE20041030_022114_000000462031_00361_13942_0018.N1	30-OCT-2004 02:21:14	Bright	45.500	79	26Bet Per	2.3100	13100.	91	13942	No
GOM_TRA_1PNPDE20041030_022302_000000392031_00361_13942_0019.N1	30-OCT-2004 02:23:02	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	13942	No
GOM_TRA_1PNPDE20041030_022414_000000392031_00361_13942_0020.N1	30-OCT-2004 02:24:14	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	13942	No
GOM_TRA_1PNPDE20041030_023604_000000402031_00361_13942_0000.N1	30-OCT-2004 02:36:04	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	13942	No
GOM_TRA_1PNPDE20041030_024028_000000432031_00361_13942_0001.N1	30-OCT-2004 02:40:28	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	13942	No
GOM_TRA_1PNPDE20041030_024159_000000522031_00361_13942_0002.N1	30-OCT-2004 02:41:59	Bright	52.000	32	77Eps UMa	1.7630	11000.	104	13942	No
GOM_TRA_1PNPDE20041030_024315_000000382031_00361_13942_0003.N1	30-OCT-2004 02:43:15	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	13942	No
GOM_TRA_1PNPDE20041030_024544_000000402031_00361_13942_0004.N1	30-OCT-2004 02:45:44	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	13942	No
GOM_TRA_1PNPDE20041030_025239_000002552031_00361_13942_0005.N1	30-OCT-2004 02:52:39	Bright	255.00	24	66Alp Gem	1.5800	10200.	510	13942	No
GOM_TRA_1PNPDE20041030_030627_000000702031_00361_13942_0006.N1	30-OCT-2004 03:06:27	Dark	69.500	48	30Alp Hya	1.9770	4100.0	139	13942	No
GOM_TRA_1PNPDE20041030_031156_000000412031_00361_13942_0007.N1	30-OCT-2004 03:11:56	Dark	41.000	99	Del Cen	2.5750	26000.	82	13942	No
GOM_TRA_1PNPDE20041030_031405_000000382031_00361_13942_0008.N1	30-OCT-2004 03:14:05	Dark	37.500	129	Del Cru	2.7930	26000.	75	13942	No
GOM_TRA_1PNPDE20041030_031723_000000422031_00362_13943_0009.N1	30-OCT-2004 03:17:23	Dark	41.500	71	lot Car	2.2460	7700.0	83	13943	No
GOM_TRA_1PNPDE20041030_031845_000000502031_00362_13943_0010.N1	30-OCT-2004 03:18:45	Dark	49.500	34	Gam2Vel	1.7930	23000.	99	13943	No

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



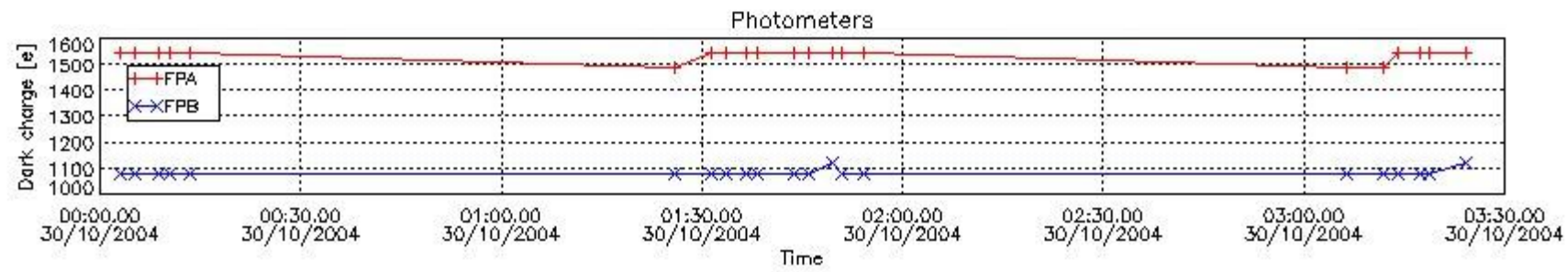
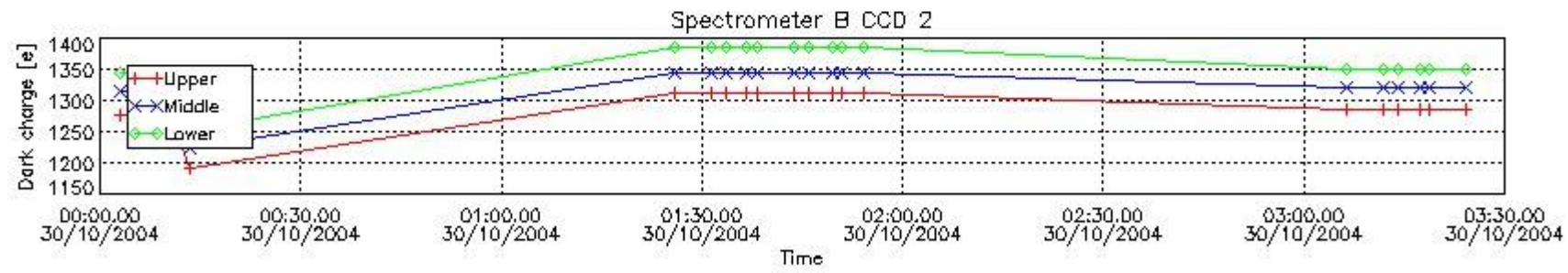
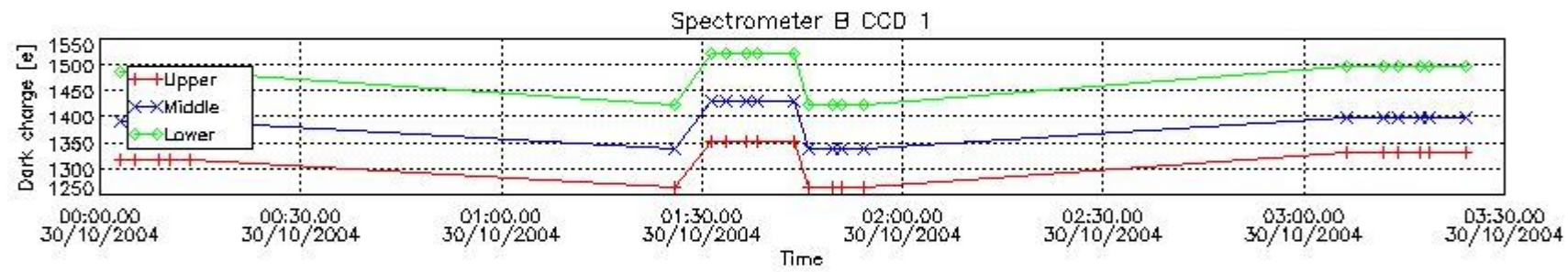
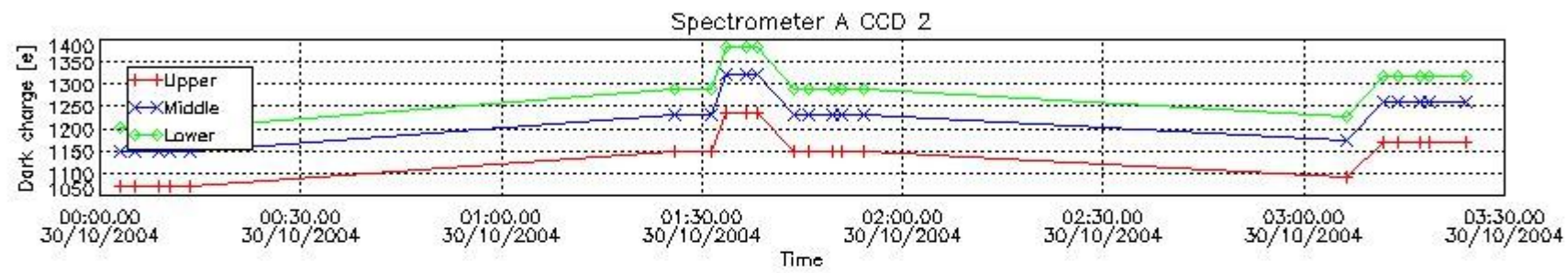
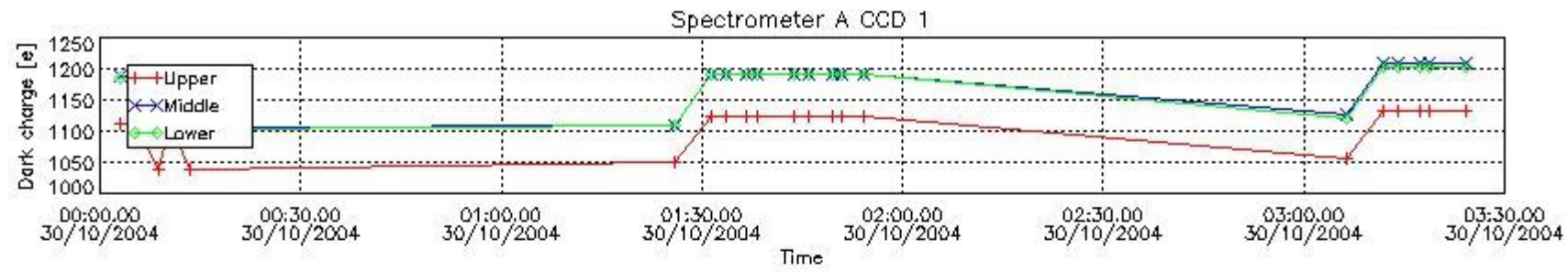
4. Overview of dark signal processing per product

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



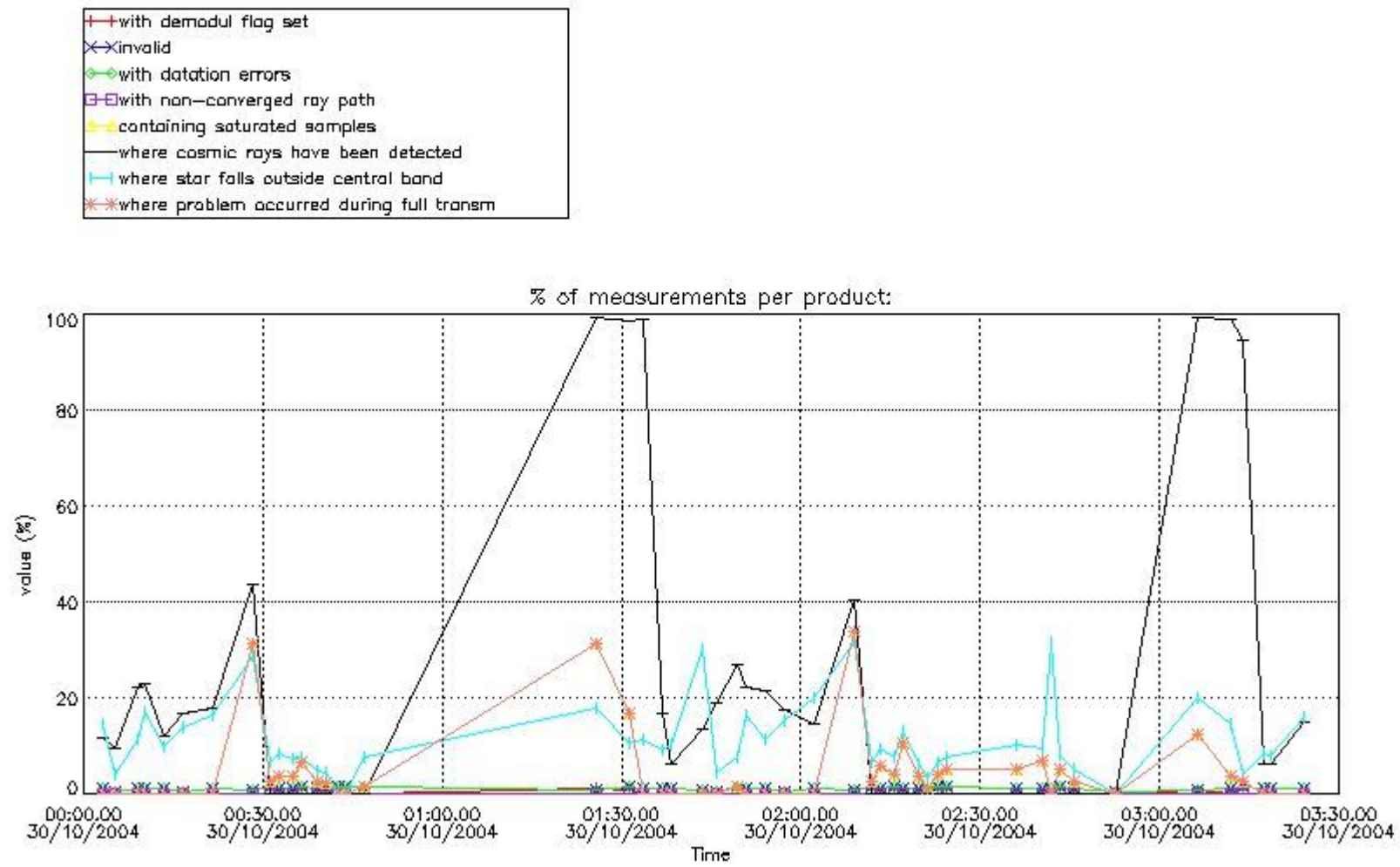
5. Demodulation flag and quality information monitoring

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.

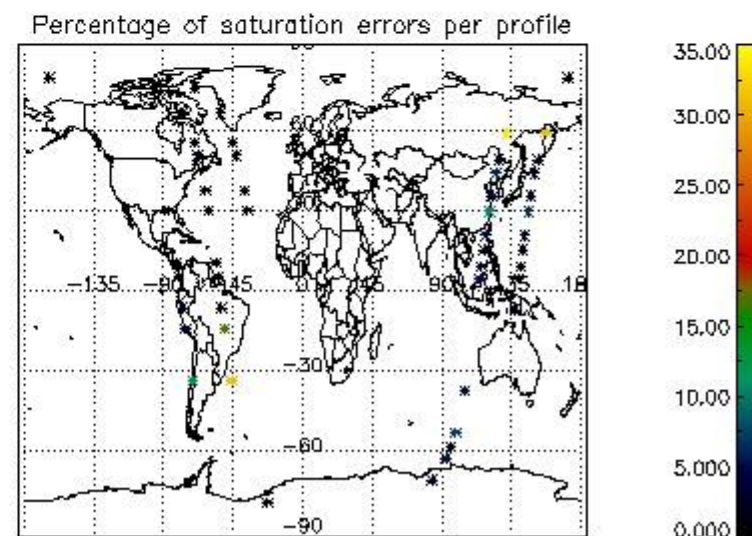
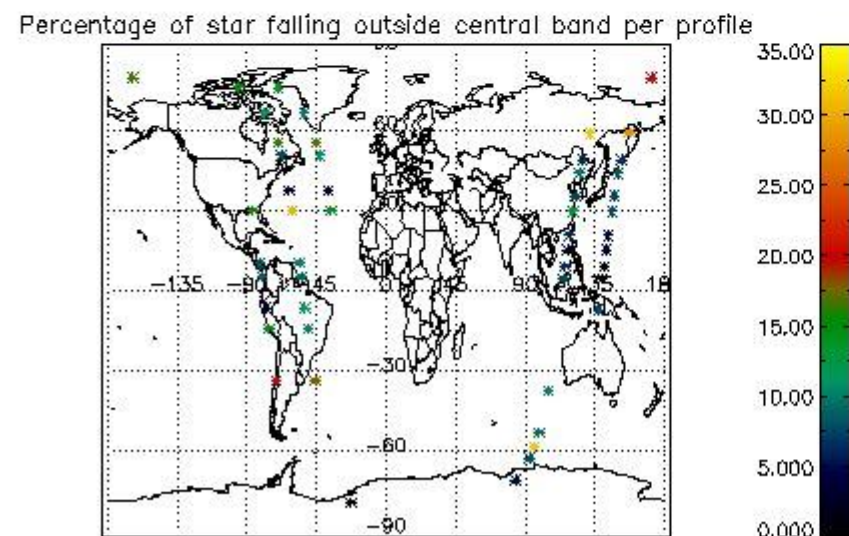
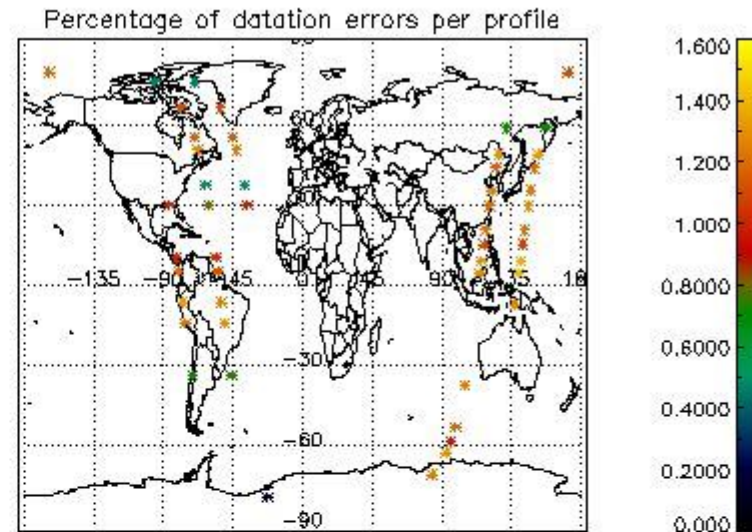
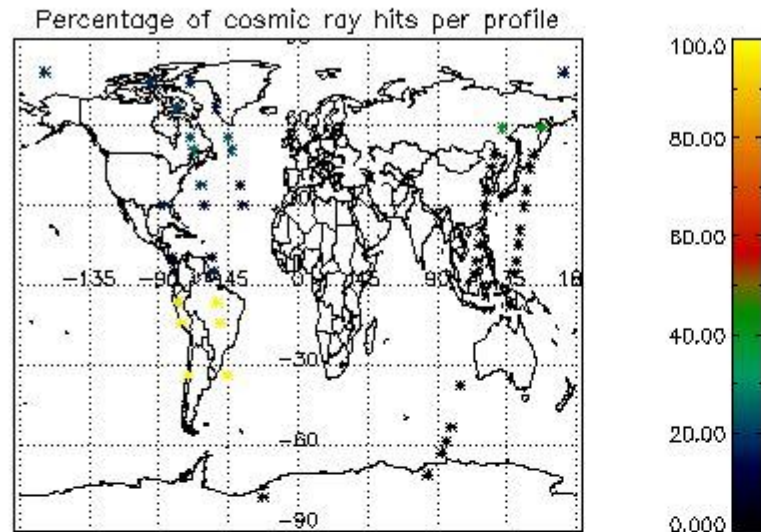
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.0000 %
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)



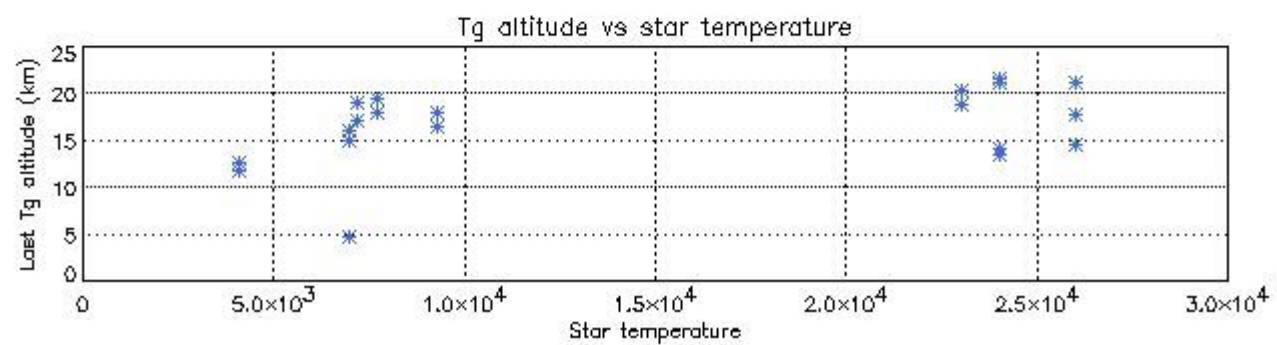
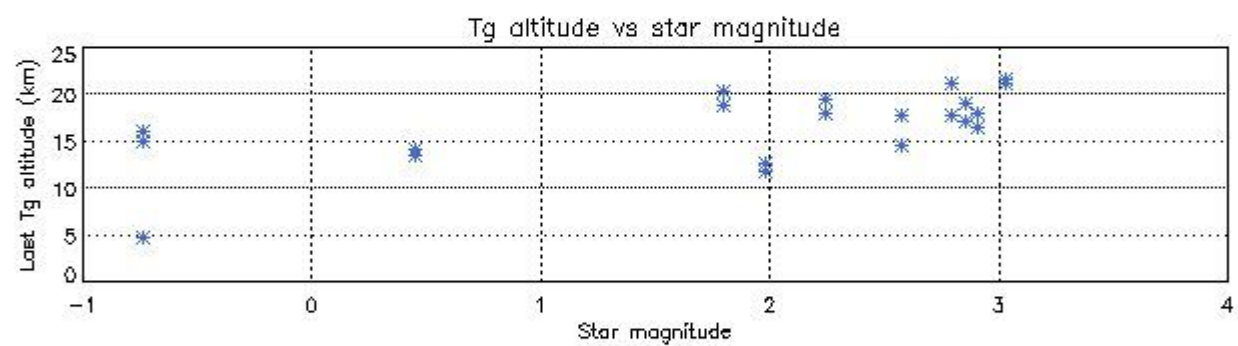
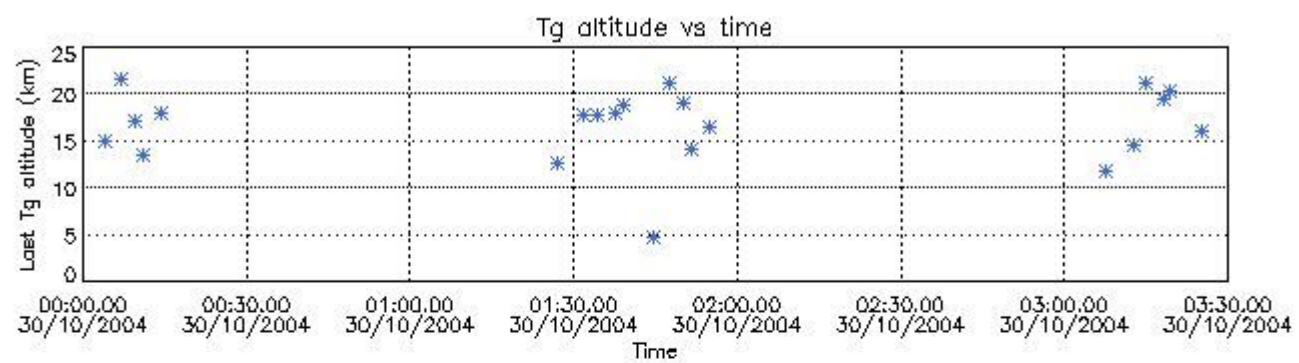
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.600	18.604	14.396
St. deviation:	3.9230	5.9811	0.56362
Maximum:	21.548	28.079	14.794
Minimum:	4.7832	5.1305	13.997
Number of data:	21.000	27.000	2.0000

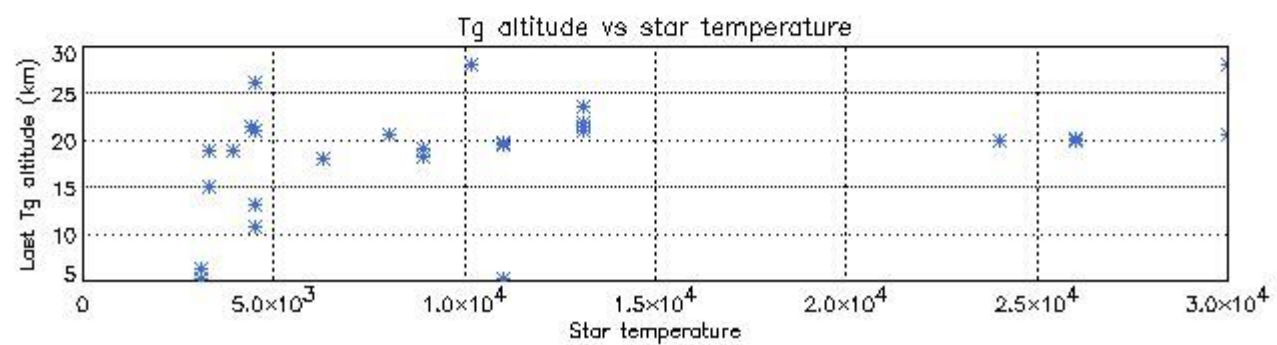
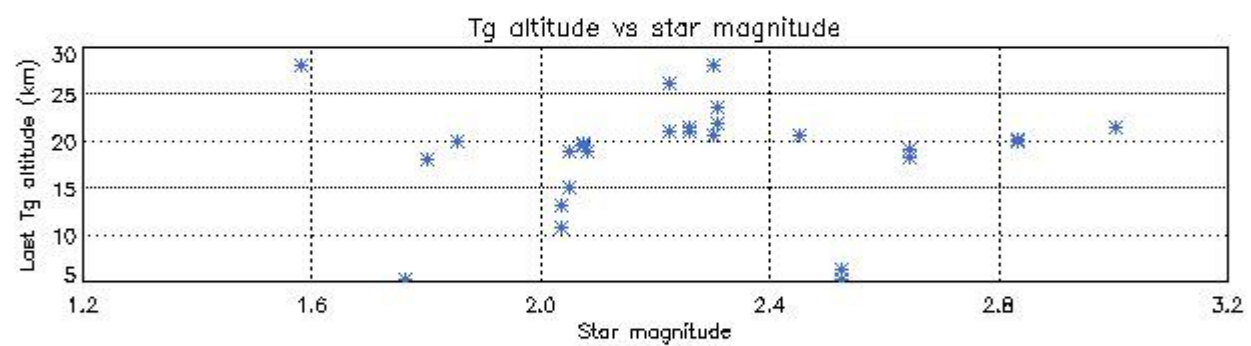
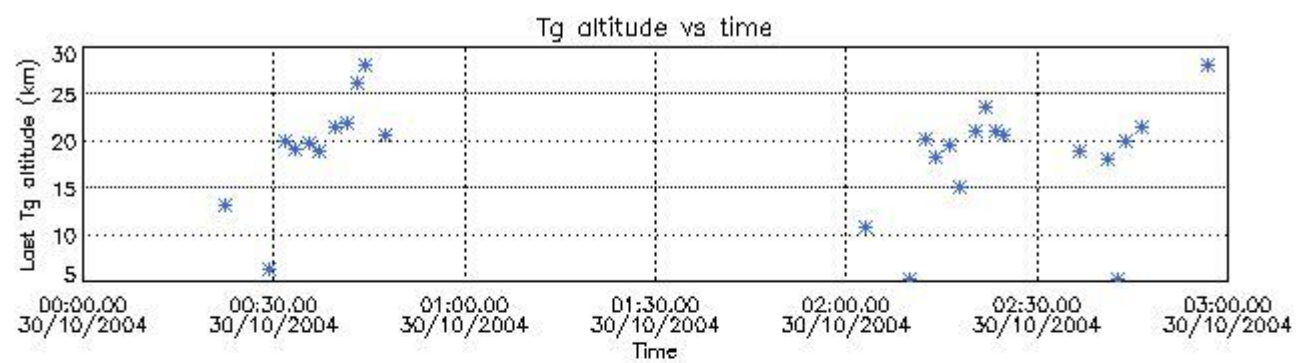
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



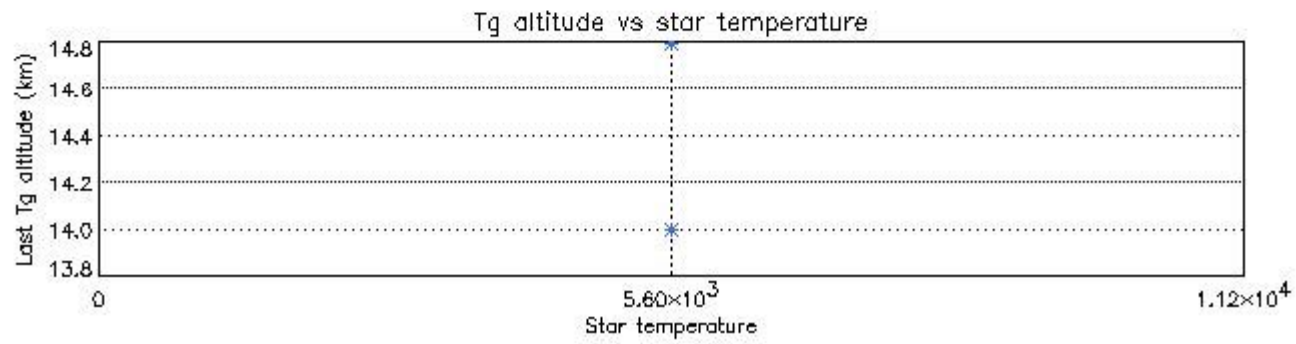
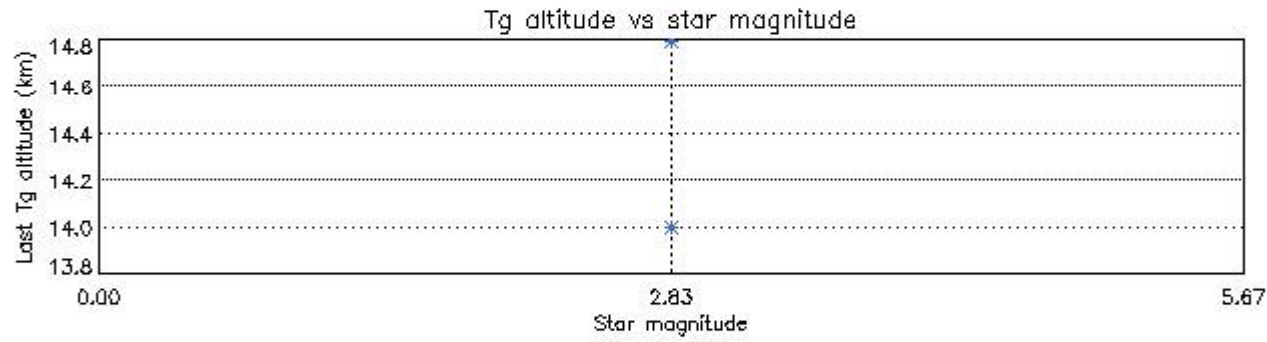
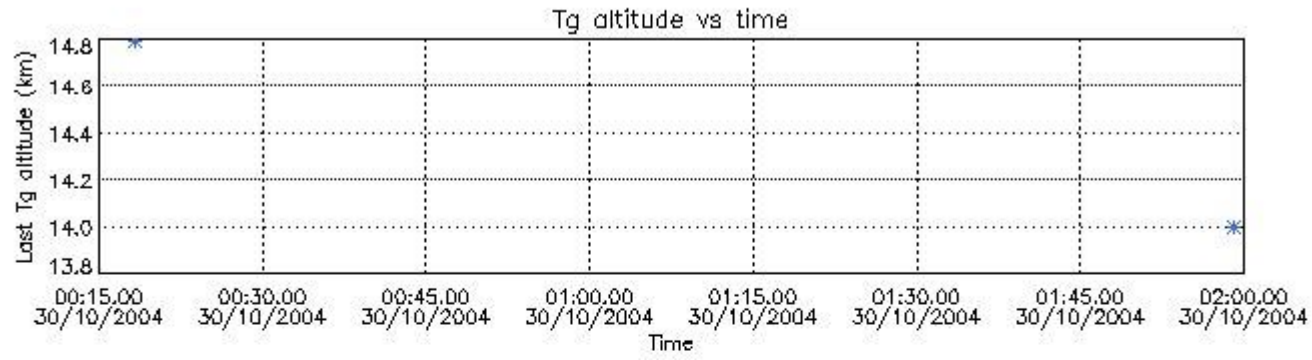
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

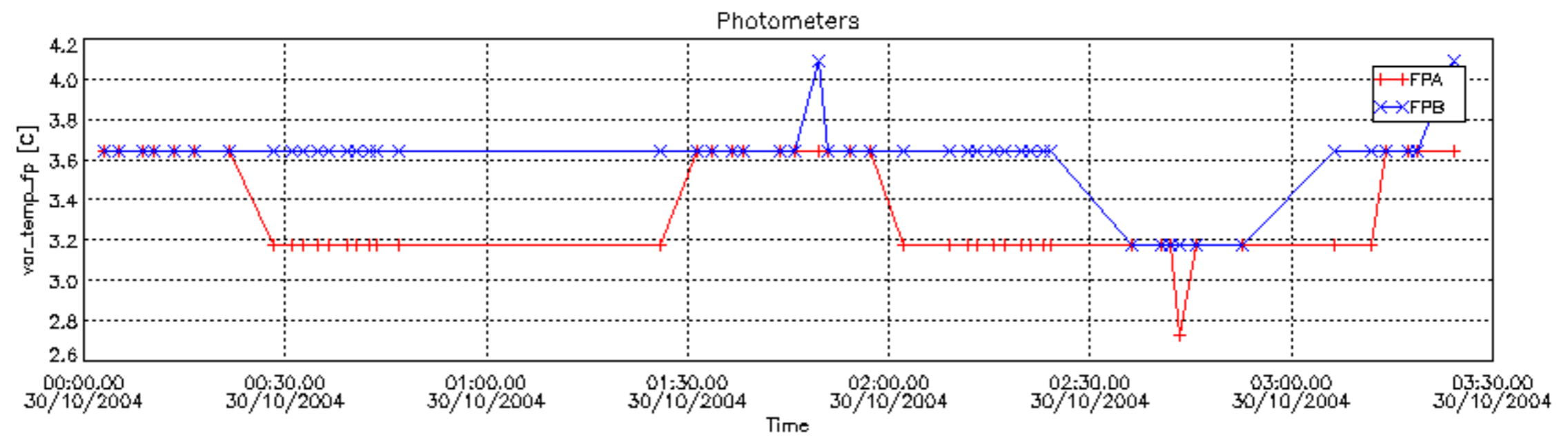
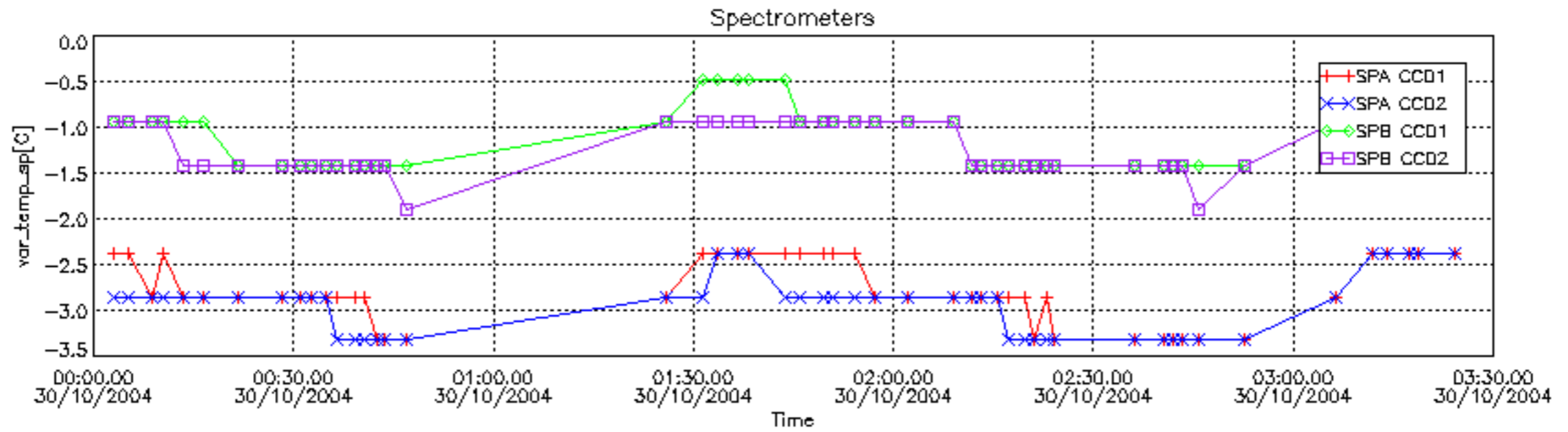
Tangent altitude at which the star is lost

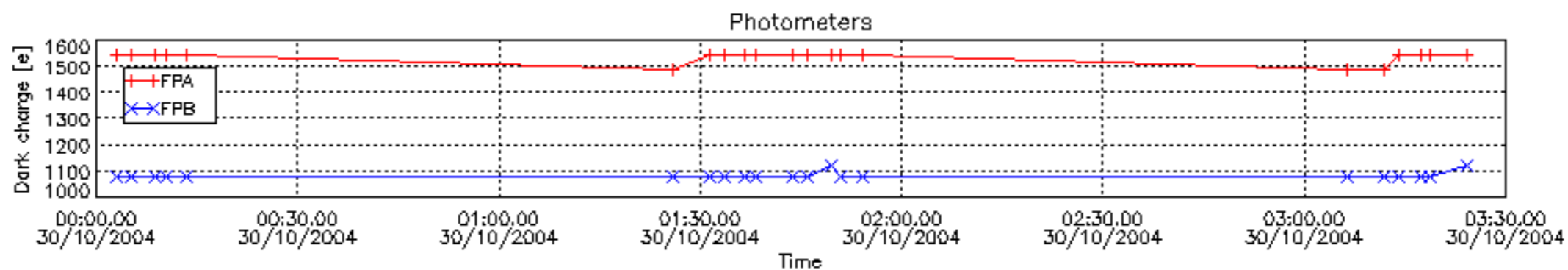
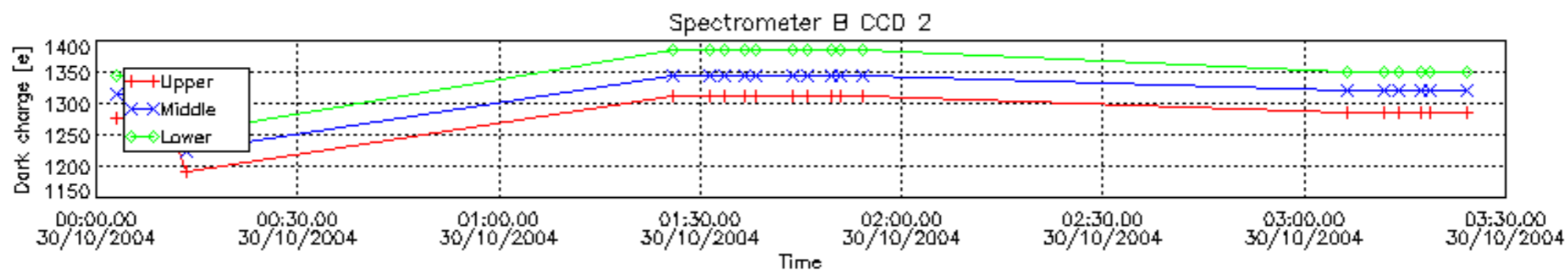
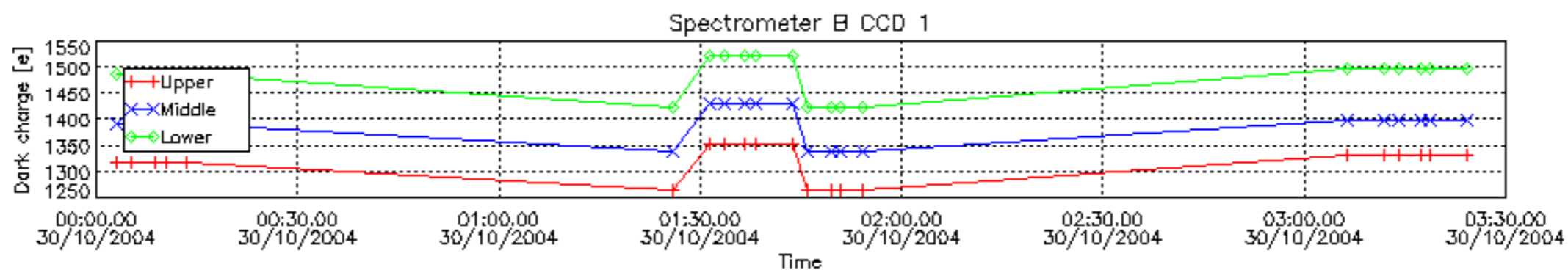
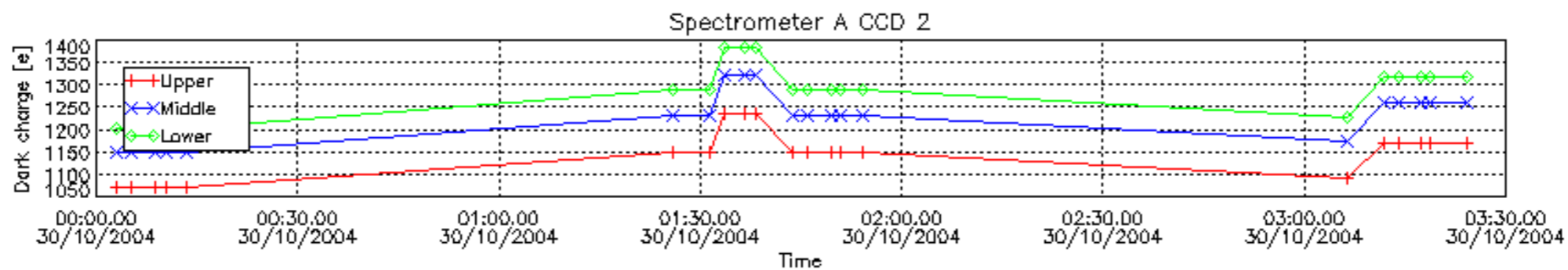
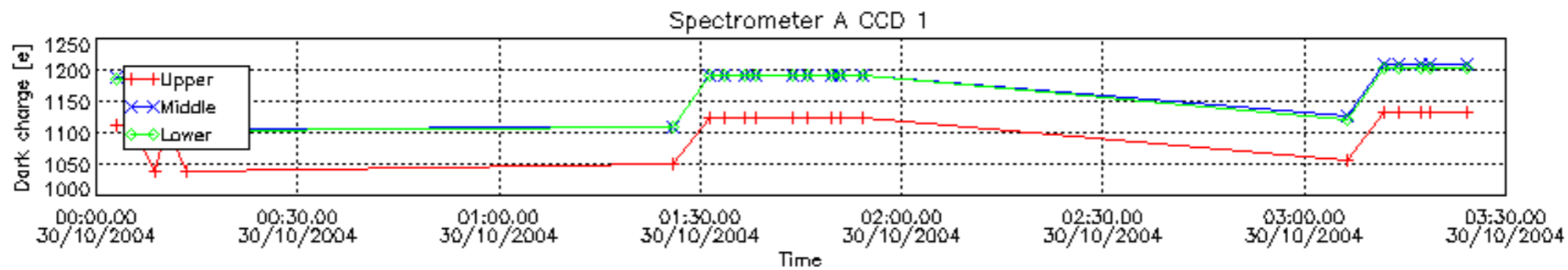


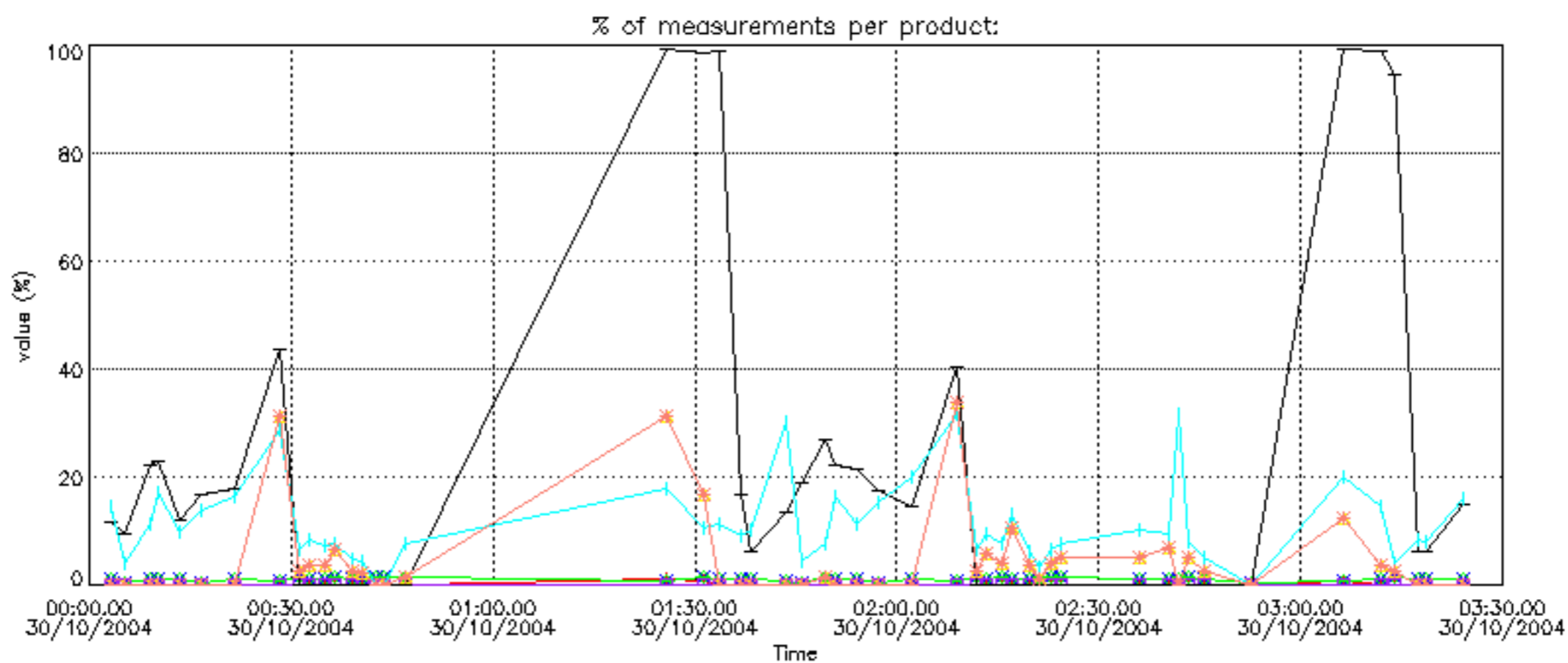
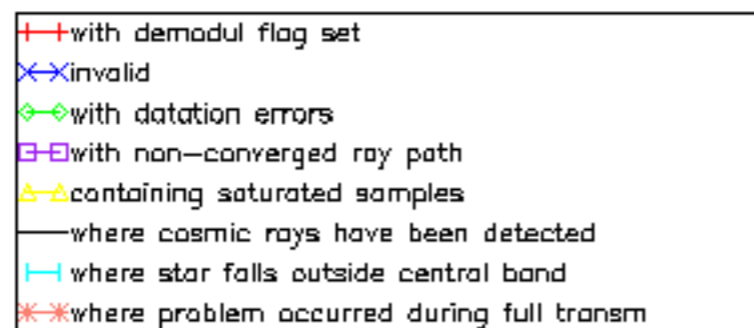
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

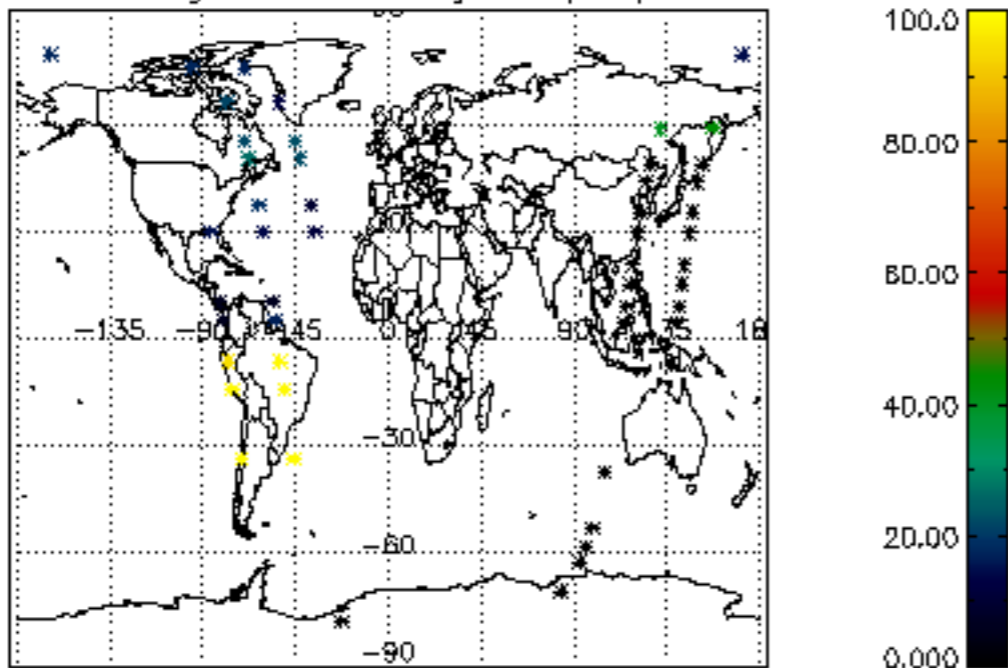
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.5	1446.9	1461.5	1447.0
St. deviation:	6.3252	7.4781	6.4276	7.2800
Maximum:	1505.0	1573.0	1512.0	1507.0
Minimum:	1451.0	1432.0	1440.0	1418.0
Number of data:	29200.	29200.	34150.	34150.



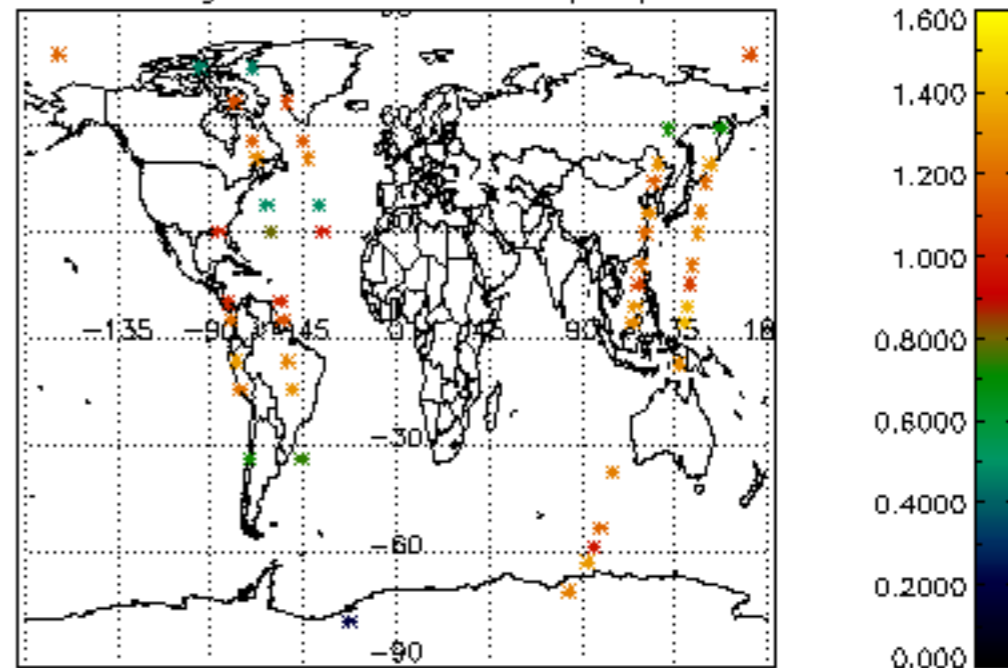




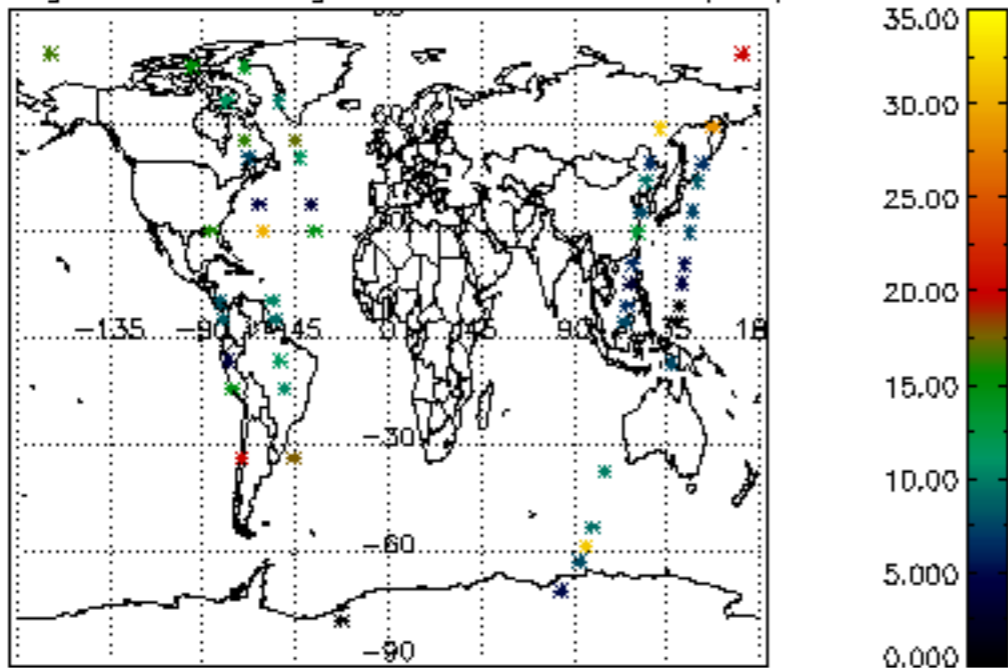
Percentage of cosmic ray hits per profile



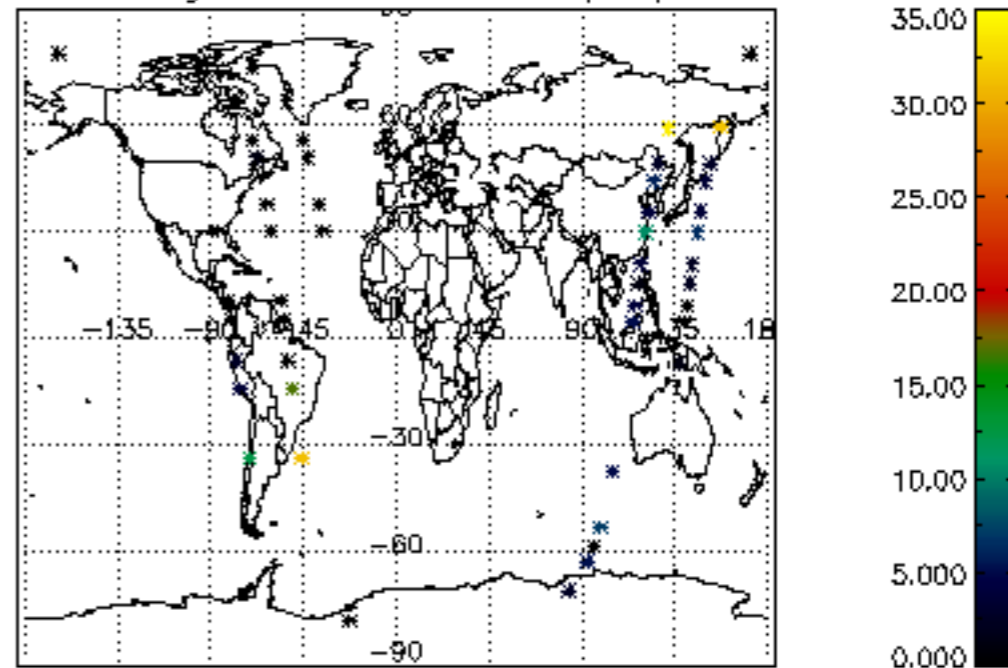
Percentage of datation errors per profile



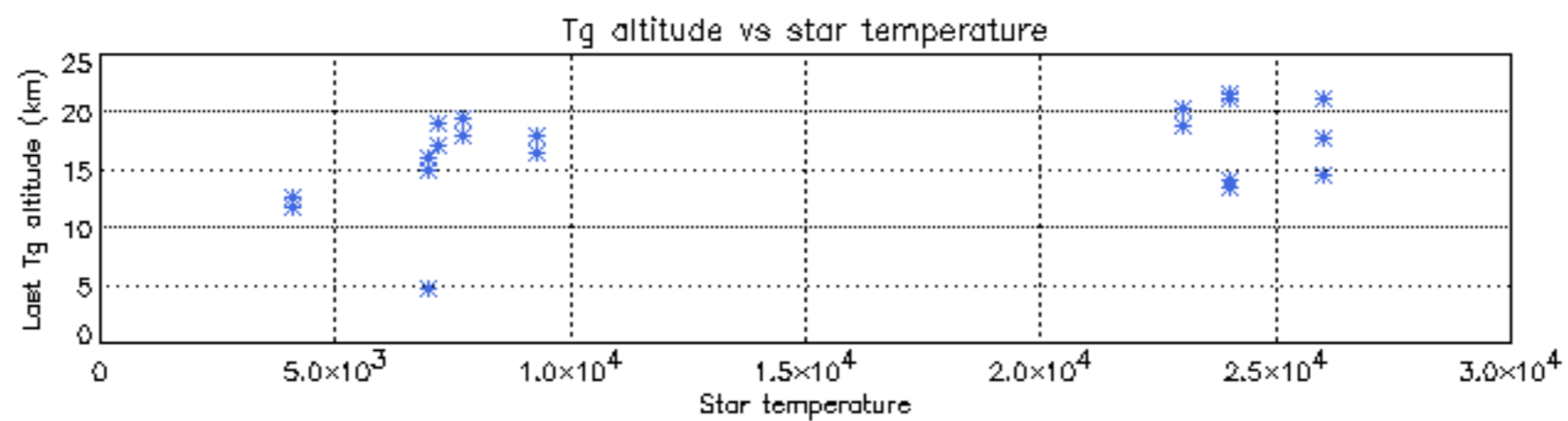
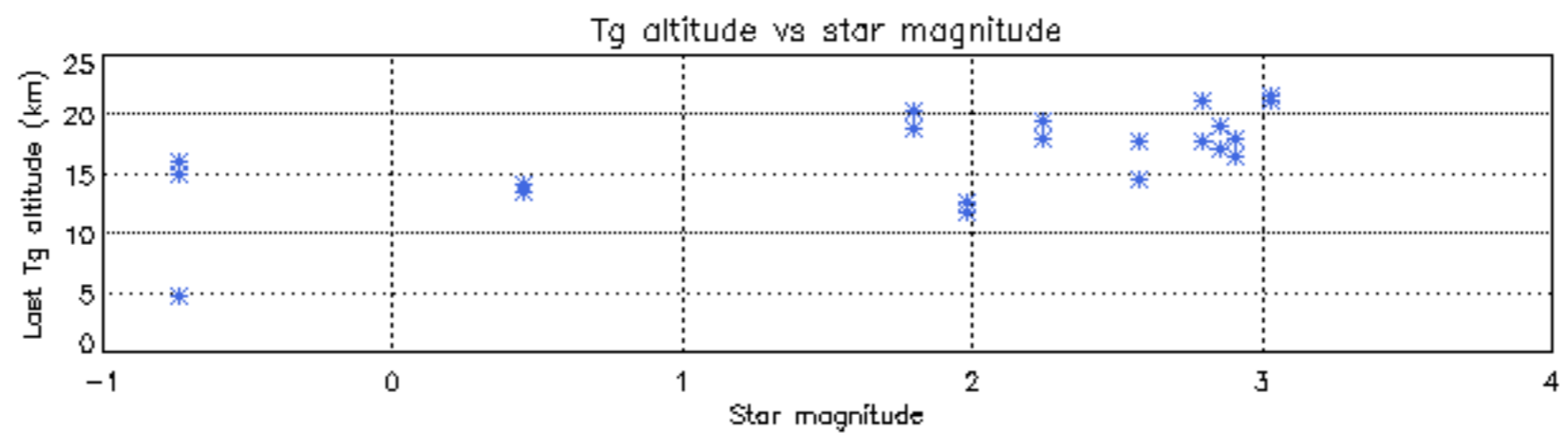
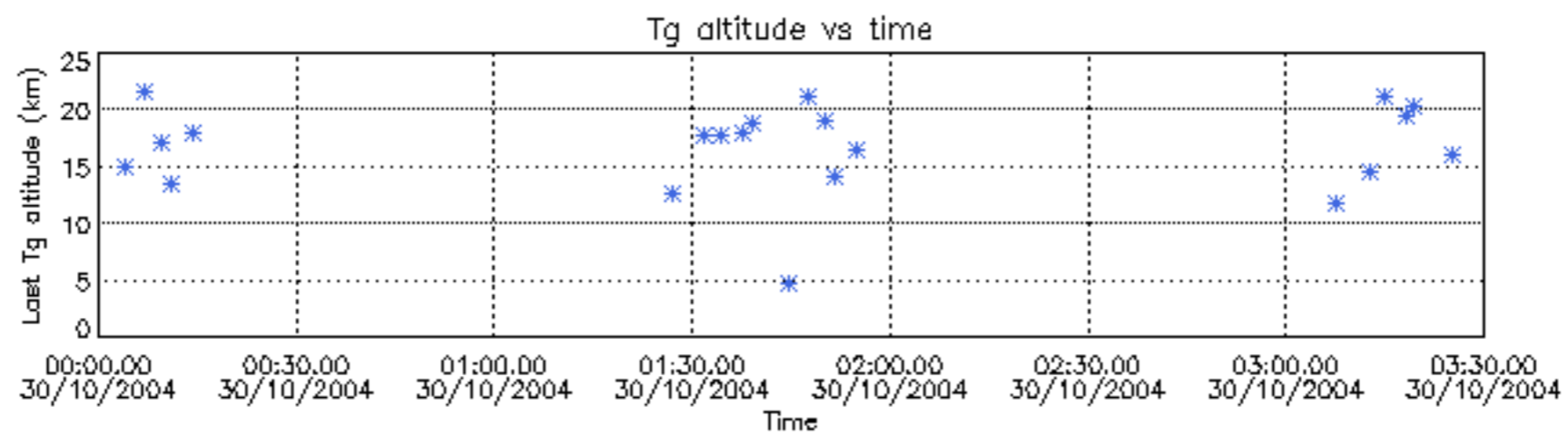
Percentage of star falling outside central band per profile



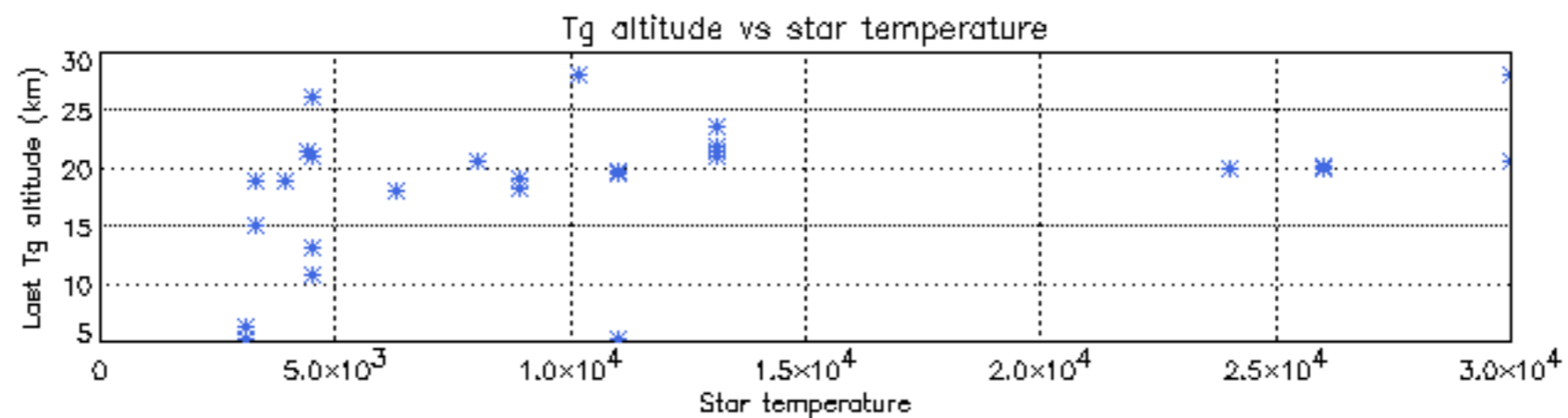
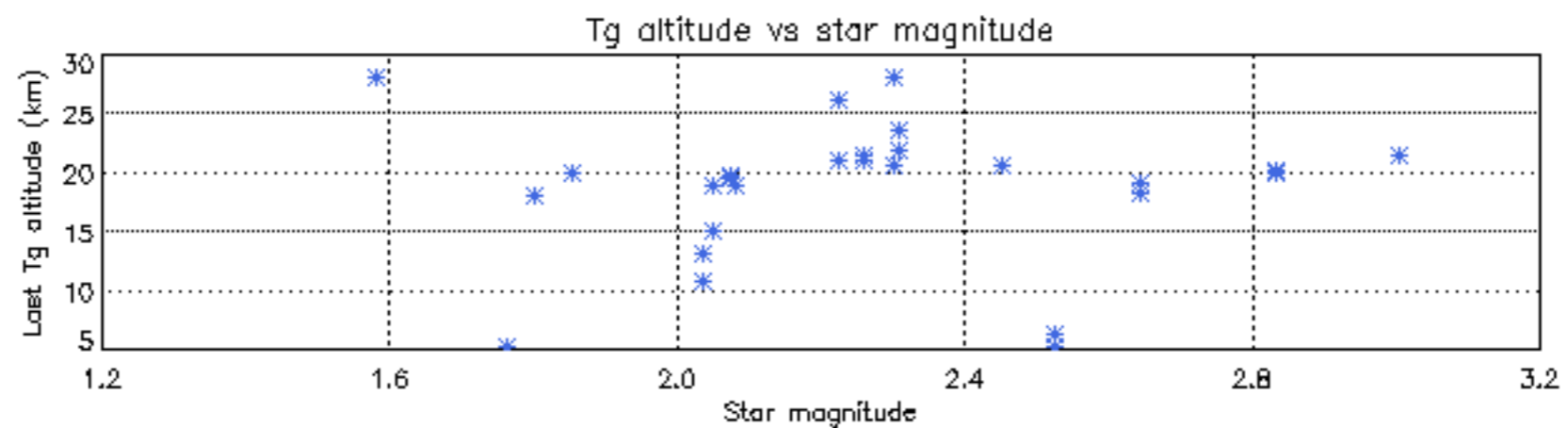
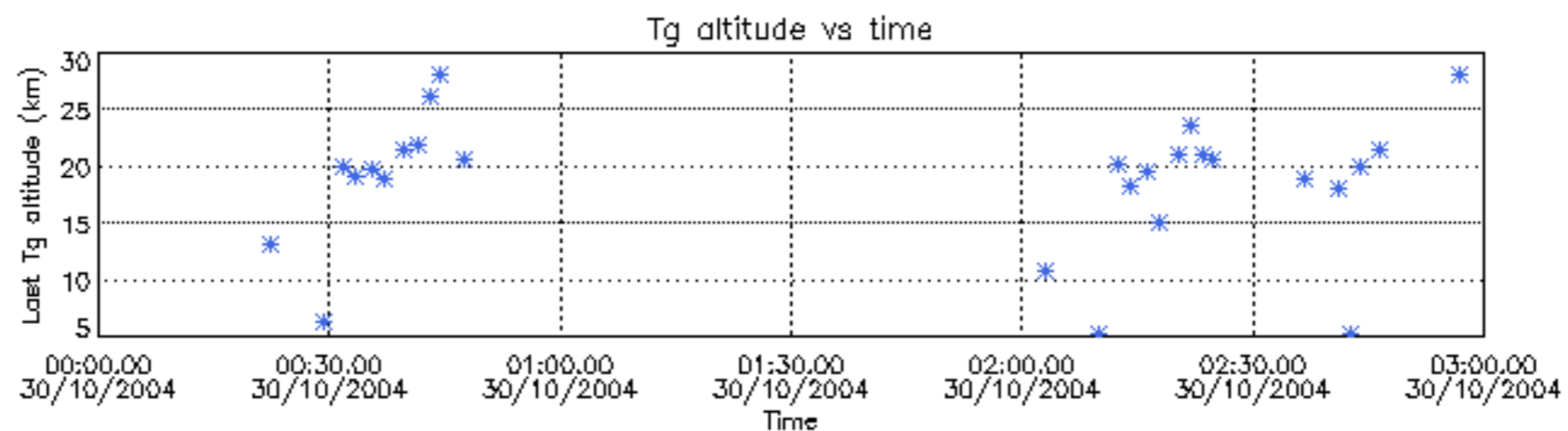
Percentage of saturation errors per profile



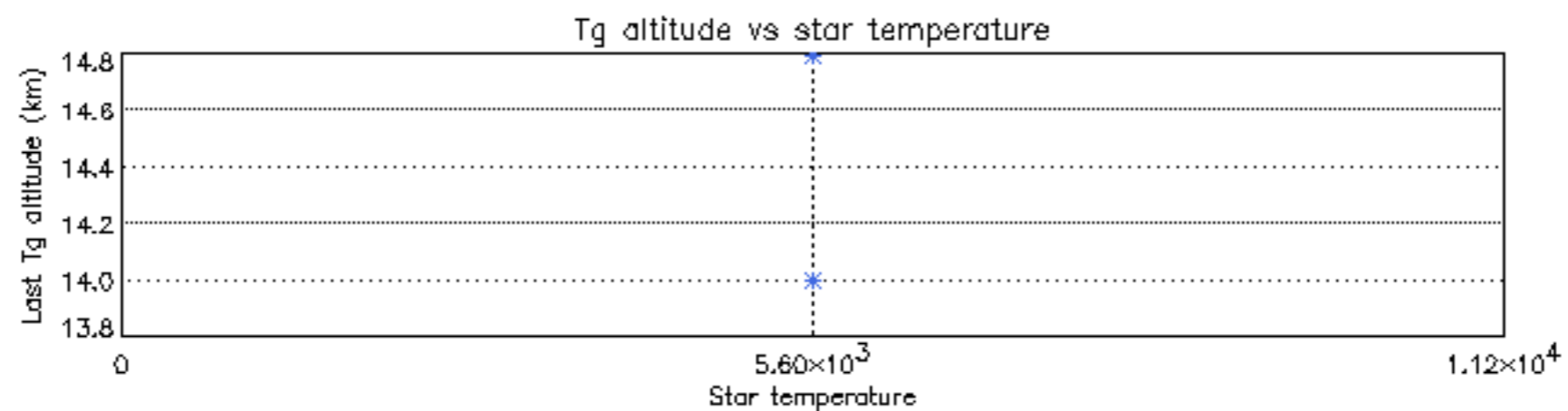
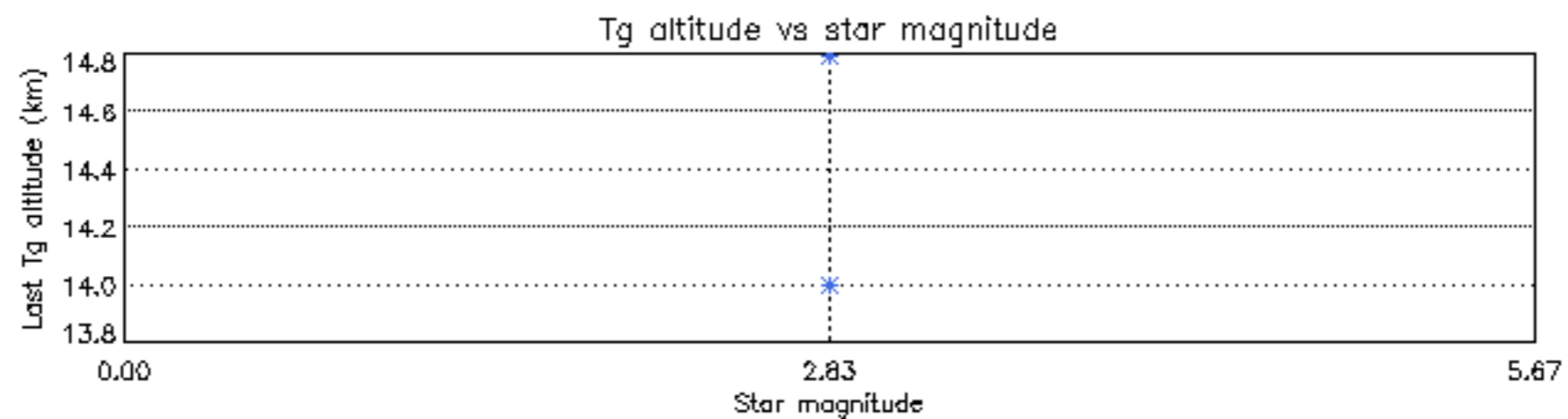
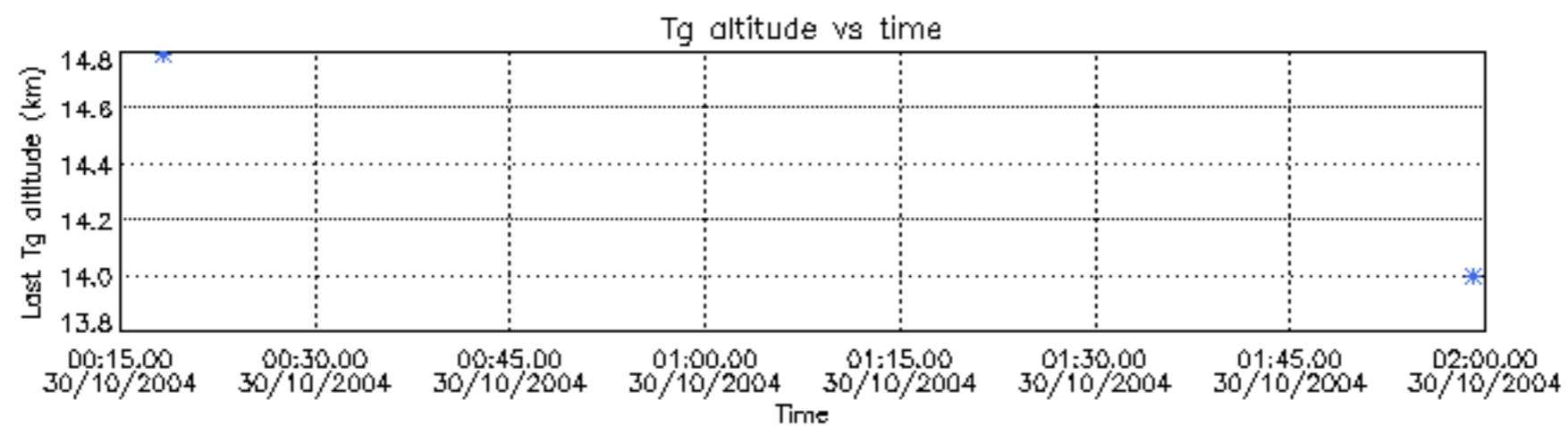
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 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
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 6; -1523.1; 01-OCT-2004 03:01:56; Bright; 59.5; 24; 66Alp Gem ; 1.58; 10200;occ; 119; 0;13527
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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
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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
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 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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 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
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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
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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
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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
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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
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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
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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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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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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
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
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25;	634.5;	23-OCT-2004	15:30:47;	Dark	;	76.5;	177;	1Zet CMA	;	3.02;	26000;occ;	153;	0;	13850
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6;-3842.8; 31-OCT-2004 18:26:12; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;13966
7;-3708.0; 31-OCT-2004 18:28:27; Bright; 45.0; 50; 13Alp Ari ; 2.01; 4250;occ; 90; 0;13966
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