

GOMOS Daily Report 03-SEP-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	07SEP2004 05:09:38
Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-4D (03SEP2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-4D (04SEP2004 00:00:00)

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

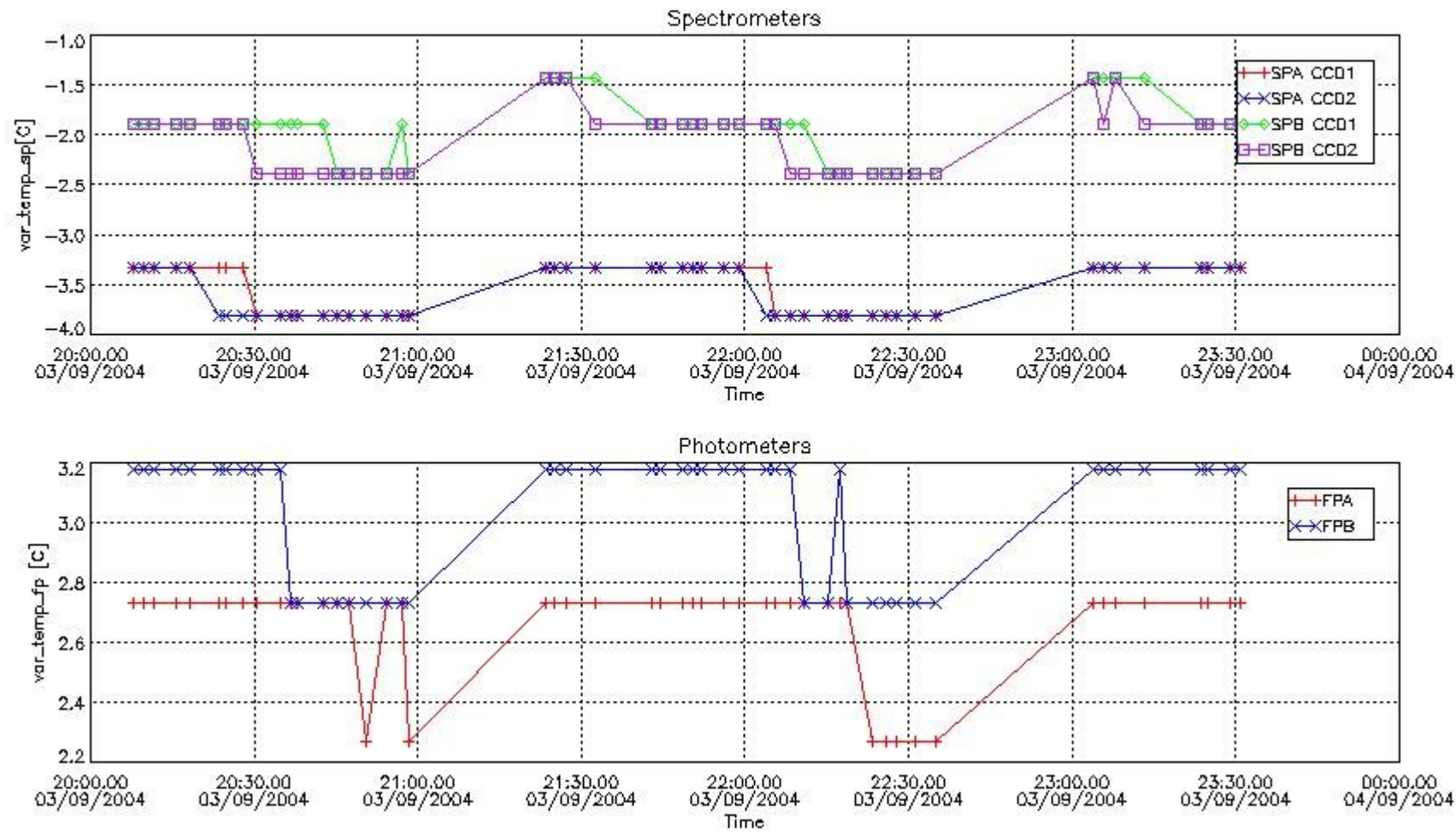
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040903_200749_000000392030_00057_13137_0000.N1	03-SEP-2004 20:07:49	Twilight	38.500	148	Alp Tuc	2.8780	4100.0	77	13137	No
GOM_TRA_1PNPDE20040903_200941_000000532030_00057_13137_0001.N1	03-SEP-2004 20:09:41	Twilight	53.000	84	Alp Phe	2.3970	4500.0	106	13137	No
GOM_TRA_1PNPDE20040903_201129_000000382030_00057_13137_0002.N1	03-SEP-2004 20:11:29	Twilight	38.000	31	Alp Gru	1.7340	15200.	76	13137	No
GOM_TRA_1PNPDE20040903_201536_000000472030_00057_13137_0003.N1	03-SEP-2004 20:15:36	Bright	46.500	18	24Alp PsA	1.1660	9700.0	93	13137	No
GOM_TRA_1PNPDE20040903_201814_000000892030_00057_13137_0004.N1	03-SEP-2004 20:18:14	Bright	89.000	52	16Bet Cet	2.0370	4500.0	178	13137	No
GOM_TRA_1PNPDE20040903_202326_000000372030_00057_13137_0005.N1	03-SEP-2004 20:23:26	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	13137	No
GOM_TRA_1PNPDE20040903_202449_000000392030_00057_13137_0006.N1	03-SEP-2004 20:24:49	Bright	38.500	162	34Alp Aqr	2.9440	5350.0	77	13137	No
GOM_TRA_1PNPDE20040903_202748_000000382030_00057_13137_0007.N1	03-SEP-2004 20:27:48	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	13137	No
GOM_TRA_1PNPDE20040903_203023_000000452030_00057_13137_0008.N1	03-SEP-2004 20:30:23	Bright	44.500	90	54Alp Peg	2.4870	11000.	89	13137	No
GOM_TRA_1PNPDE20040903_203445_000000392030_00057_13137_0009.N1	03-SEP-2004 20:34:45	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	13137	No
GOM_TRA_1PNPDE20040903_203641_000000362030_00057_13137_0010.N1	03-SEP-2004 20:36:41	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	13137	No
GOM_TRA_1PNPDE20040903_203755_000000372030_00057_13137_0011.N1	03-SEP-2004 20:37:55	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	13137	No
GOM_TRA_1PNPDE20040903_204246_000000372030_00057_13137_0012.N1	03-SEP-2004 20:42:46	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	13137	No
GOM_TRA_1PNPDE20040903_204510_000000452030_00057_13137_0013.N1	03-SEP-2004 20:45:10	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	13137	No
GOM_TRA_1PNPDE20040903_204715_000000452030_00057_13137_0014.N1	03-SEP-2004 20:47:15	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	13137	No
GOM_TRA_1PNPDE20040903_205028_000000372030_00057_13137_0015.N1	03-SEP-2004 20:50:28	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	13137	No
GOM_TRA_1PNPDE20040903_205419_000000582030_00057_13137_0016.N1	03-SEP-2004 20:54:19	Bright	58.000	160	23Gam Per	2.9300	4700.0	116	13137	No
GOM_TRA_1PNPDE20040903_205705_000000352030_00057_13137_0017.N1	03-SEP-2004 20:57:05	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	13137	No
GOM_TRA_1PNPDE20040903_205828_000000532030_00057_13137_0018.N1	03-SEP-2004 20:58:28	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	13137	No
GOM_TRA_1PNPDE20040903_212318_000000532030_00057_13137_0000.N1	03-SEP-2004 21:23:18	Dark	52.500	1	9Alp CMa	-1.4400	11000.	105	13137	No
GOM_TRA_1PNPDE20040903_212459_000000462030_00057_13137_0001.N1	03-SEP-2004 21:24:59	Dark	45.500	37	25Del CMa	1.8300	5900.0	91	13137	No
GOM_TRA_1PNPDE20040903_212713_000000892030_00057_13137_0002.N1	03-SEP-2004 21:27:13	Dark	88.500	7	19Bet Ori	0.10000	14000.	177	13137	No
GOM_TRA_1PNPDE20040903_213240_000000542030_00057_13137_0003.N1	03-SEP-2004 21:32:40	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	13137	No
GOM_TRA_1PNPDE20040903_214251_000000412030_00058_13138_0004.N1	03-SEP-2004 21:42:51	Dark	40.500	135	Bet Hyi	2.8200	5800.0	81	13138	No
GOM_TRA_1PNPDE20040903_214422_000000552030_00058_13138_0005.N1	03-SEP-2004 21:44:22	Dark	54.500	9	Alp Eri	0.45300	24000.	109	13138	No
GOM_TRA_1PNPDE20040903_214825_000000392030_00058_13138_0006.N1	03-SEP-2004 21:48:25	Twilight	38.500	148	Alp Tuc	2.8780	4100.0	77	13138	No
GOM_TRA_1PNPDE20040903_215018_000000522030_00058_13138_0007.N1	03-SEP-2004 21:50:18	Twilight	51.500	84	Alp Phe	2.3970	4500.0	103	13138	No
GOM_TRA_1PNPDE20040903_215206_000000412030_00058_13138_0008.N1	03-SEP-2004 21:52:06	Twilight	40.500	31	Alp Gru	1.7340	15200.	81	13138	No
GOM_TRA_1PNPDE20040903_215612_000000512030_00058_13138_0009.N1	03-SEP-2004 21:56:12	Bright	51.000	18	24Alp PsA	1.1660	9700.0	102	13138	No
GOM_TRA_1PNPDE20040903_215850_000000762030_00058_13138_0010.N1	03-SEP-2004 21:58:50	Bright	75.500	52	16Bet Cet	2.0370	4500.0	151	13138	No
GOM_TRA_1PNPDE20040903_220402_000000362030_00058_13138_0011.N1	03-SEP-2004 22:04:02	Bright	35.500	154	22Bet Aqr	2.8990	5700.0	71	13138	No
GOM_TRA_1PNPDE20040903_220525_000000392030_00058_13138_0012.N1	03-SEP-2004 22:05:25	Bright	38.500	162	34Alp Aqr	2.9440	5350.0	77	13138	No
GOM_TRA_1PNPDE20040903_220825_000000382030_00058_13138_0013.N1	03-SEP-2004 22:08:25	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	13138	No
GOM_TRA_1PNPDE20040903_221058_000000452030_00058_13138_0014.N1	03-SEP-2004 22:10:58	Bright	45.000	90	54Alp Peg	2.4870	11000.	90	13138	No
GOM_TRA_1PNPDE20040903_221521_000000352030_00058_13138_0015.N1	03-SEP-2004 22:15:21	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	13138	No
GOM_TRA_1PNPDE20040903_221717_000000362030_00058_13138_0016.N1	03-SEP-2004 22:17:17	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	13138	No
GOM_TRA_1PNPDE20040903_221831_000000372030_00058_13138_0017.N1	03-SEP-2004 22:18:31	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	13138	No
GOM_TRA_1PNPDE20040903_222322_000000372030_00058_13138_0018.N1	03-SEP-2004 22:23:22	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	13138	No
GOM_TRA_1PNPDE20040903_222545_000000442030_00058_13138_0019.N1	03-SEP-2004 22:25:45	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	13138	No
GOM_TRA_1PNPDE20040903_222750_000000462030_00058_13138_0020.N1	03-SEP-2004 22:27:50	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	13138	No
GOM_TRA_1PNPDE20040903_223104_000000362030_00058_13138_0021.N1	03-SEP-2004 22:31:04	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	13138	No
GOM_TRA_1PNPDE20040903_223454_000000592030_00058_13138_0022.N1	03-SEP-2004 22:34:54	Bright	58.500	160	23Gam Per	2.9300	4700.0	117	13138	No
GOM_TRA_1PNPDE20040903_230354_000000542030_00058_13138_0000.N1	03-SEP-2004 23:03:54	Dark	53.500	1	9Alp CMa	-1.4400	11000.	107	13138	No
GOM_TRA_1PNPDE20040903_230536_000000452030_00058_13138_0001.N1	03-SEP-2004 23:05:36	Dark	44.500	37	25Del CMa	1.8300	5900.0	89	13138	No
GOM_TRA_1PNPDE20040903_230751_000000842030_00058_13138_0002.N1	03-SEP-2004 23:07:51	Dark	84.000	7	19Bet Ori	0.10000	14000.	168	13138	No
GOM_TRA_1PNPDE20040903_231316_000000482030_00058_13138_0003.N1	03-SEP-2004 23:13:16	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	13138	No
GOM_TRA_1PNPDE20040903_232327_000000372030_00059_13139_0004.N1	03-SEP-2004 23:23:27	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	13139	No
GOM_TRA_1PNPDE20040903_232458_000000482030_00059_13139_0005.N1	03-SEP-2004 23:24:58	Dark	48.000	9	Alp Eri	0.45300	24000.	96	13139	No
GOM_TRA_1PNPDE20040903_232902_000000472030_00059_13139_0006.N1	03-SEP-2004 23:29:02	Twilight	46.500	148	Alp Tuc	2.8780	4100.0	93	13139	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).

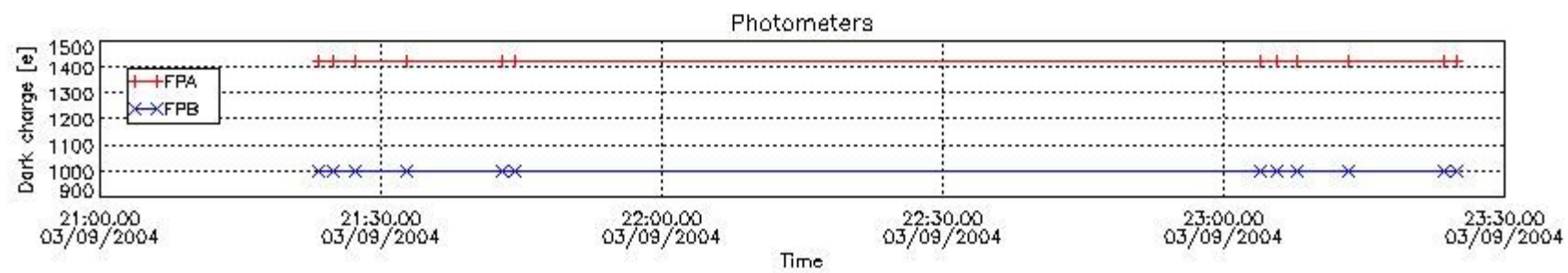
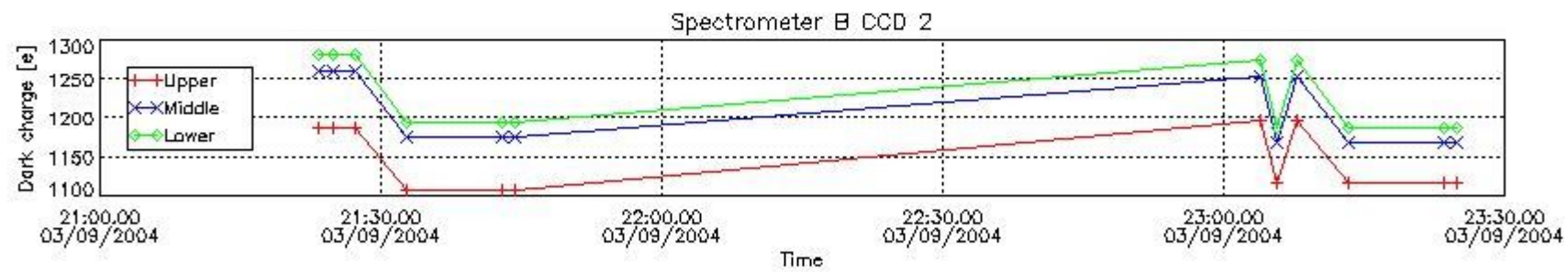
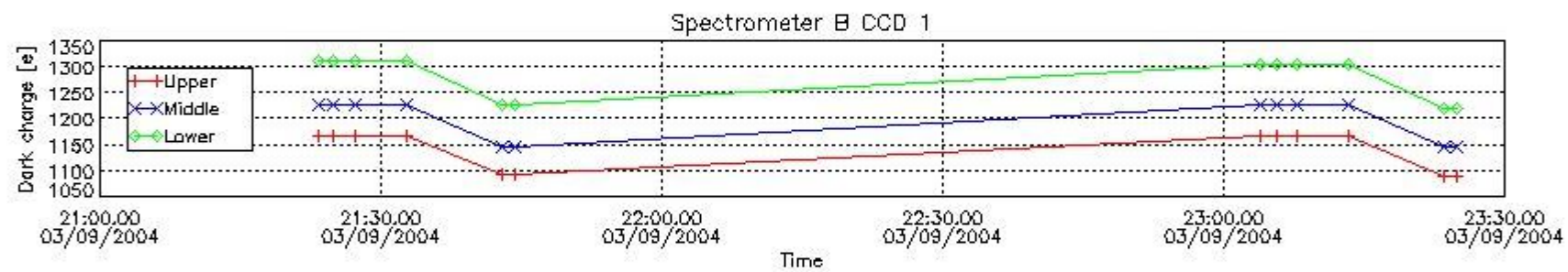
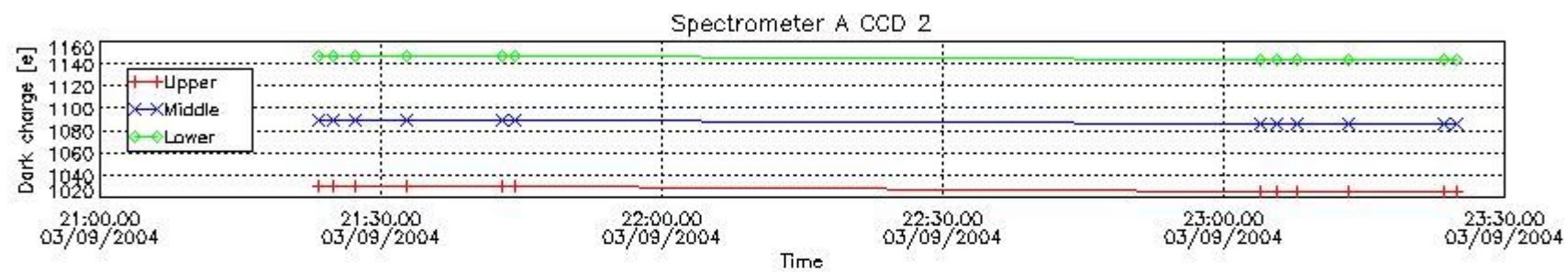
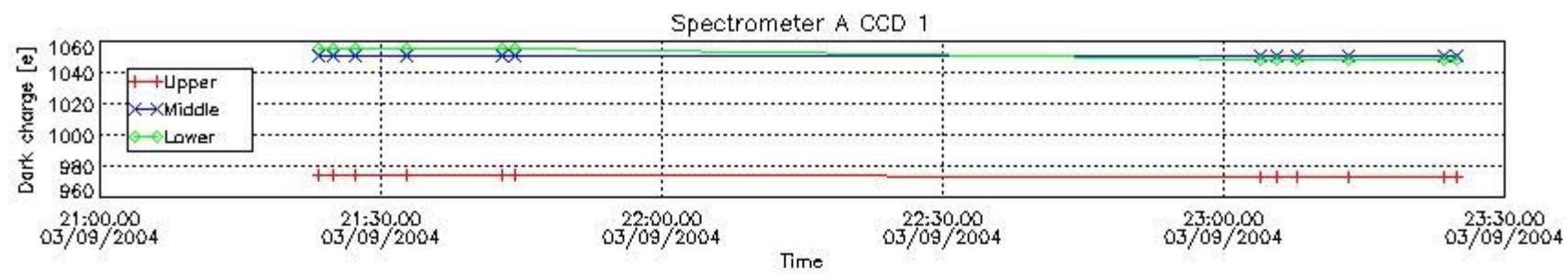
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040903_200749_000000392030_00057_13137_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_200941_000000532030_00057_13137_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_201129_000000382030_00057_13137_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_201536_000000472030_00057_13137_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_201814_000000892030_00057_13137_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_202326_000000372030_00057_13137_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_202449_000000392030_00057_13137_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_202748_000000382030_00057_13137_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_203023_000000452030_00057_13137_0008.N1	DC map used (0)

GOM_TRA_1PNPDE20040903_203445_000000392030_00057_13137_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_203641_000000362030_00057_13137_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_203755_000000372030_00057_13137_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_204246_000000372030_00057_13137_0012.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_204510_000000452030_00057_13137_0013.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_204715_000000452030_00057_13137_0014.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_205028_000000372030_00057_13137_0015.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_205419_000000582030_00057_13137_0016.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_205705_000000352030_00057_13137_0017.N1	DC map used (0)
GOM_TRA_1PNPDE20040903_205828_000000532030_00057_13137_0018.N1	DC map used (0)

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



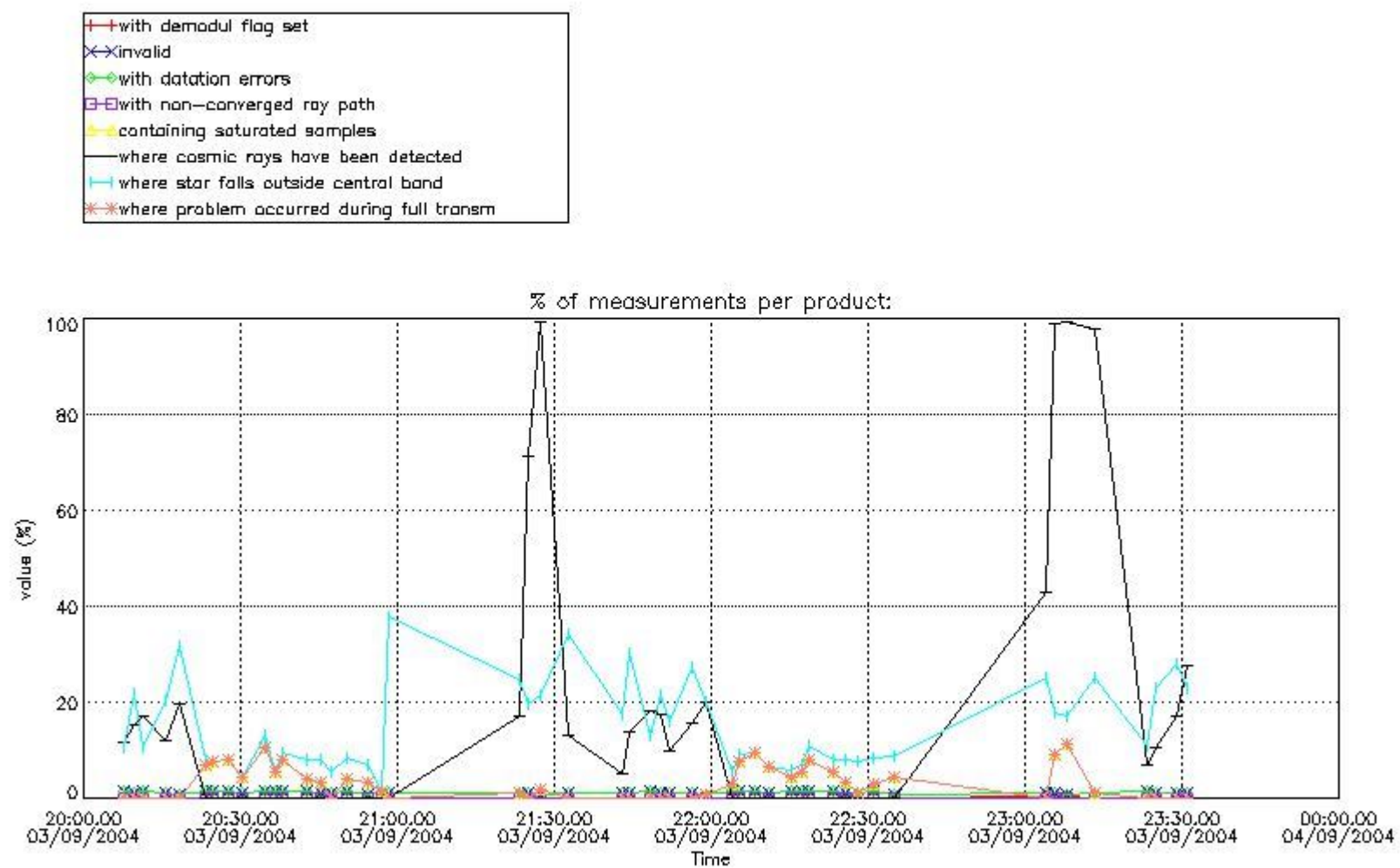
5. Demodulation flag and quality information monitoring

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.

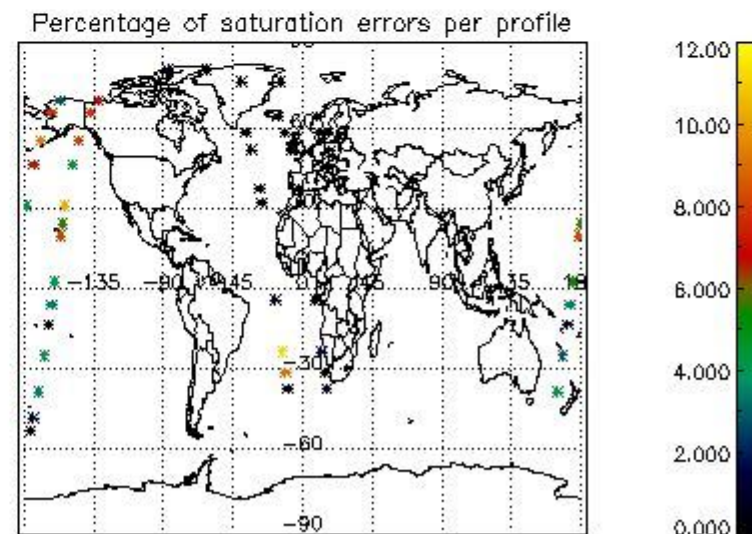
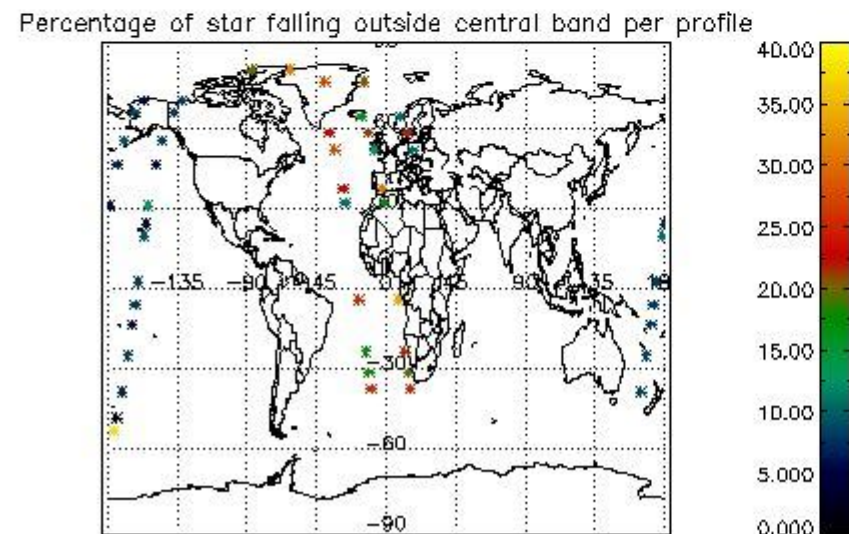
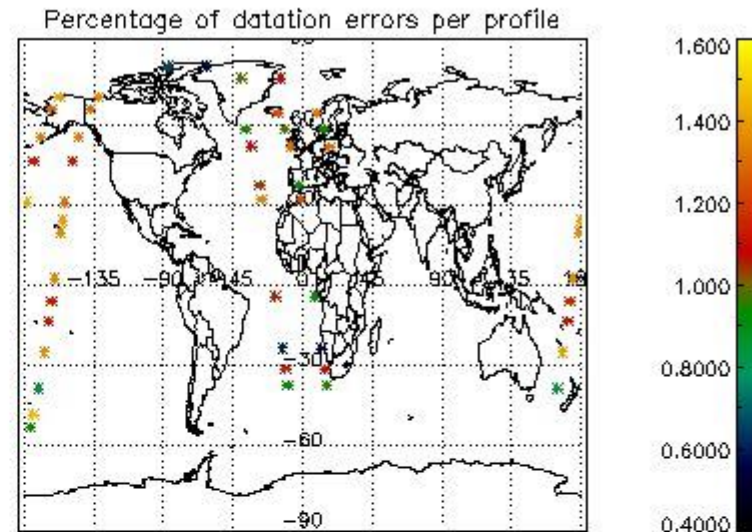
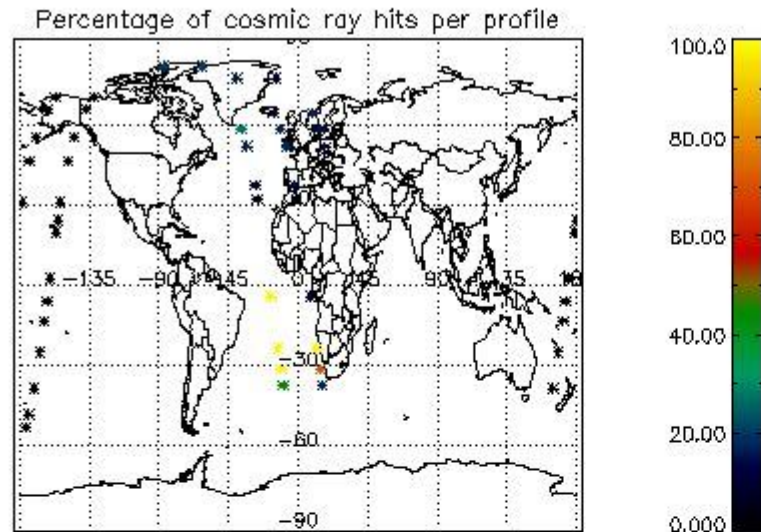
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)



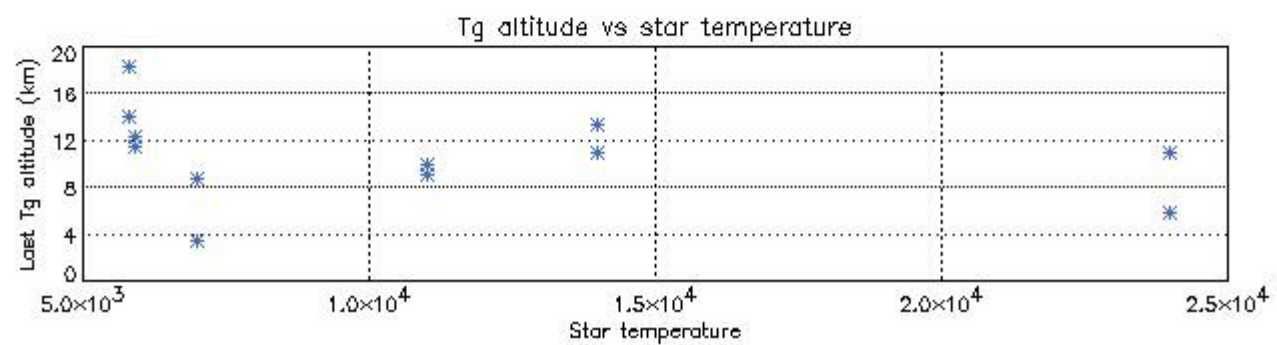
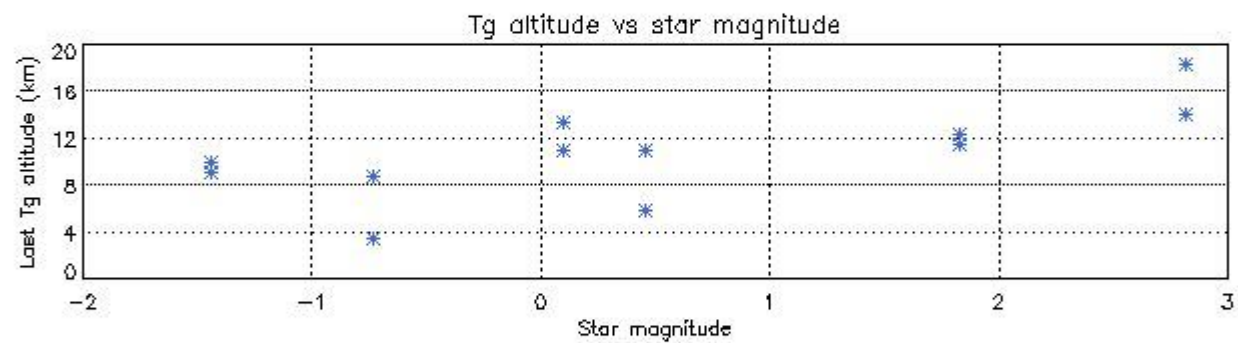
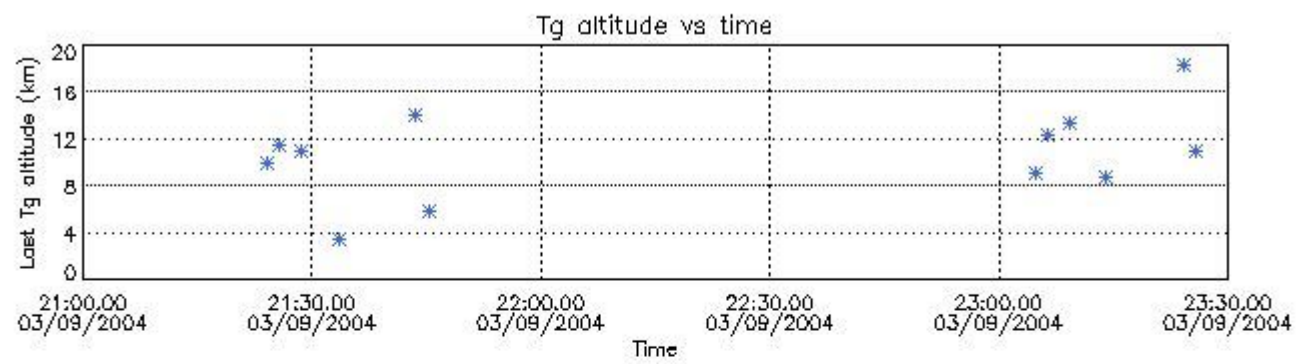
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	10.696	18.009	13.414
St. deviation:	3.8522	4.8267	3.9074
Maximum:	18.324	24.010	17.950
Minimum:	3.4971	3.4669	7.3371
Number of data:	12.000	30.000	8.0000

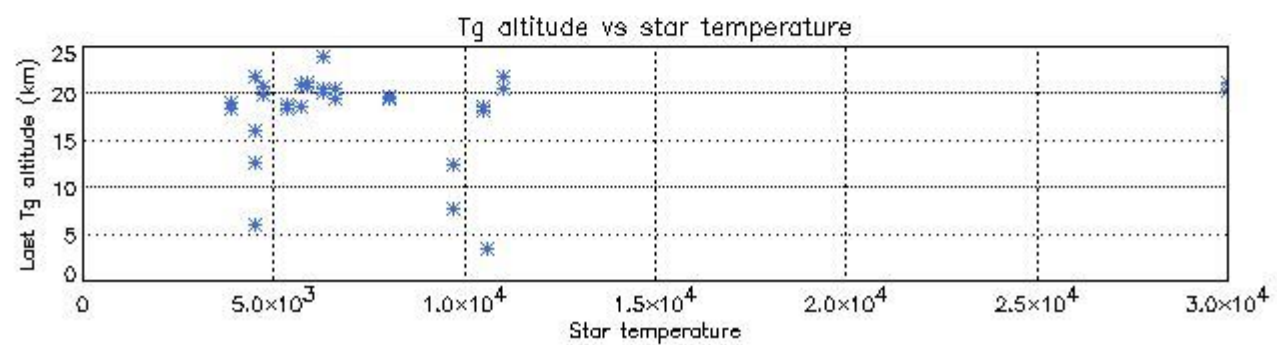
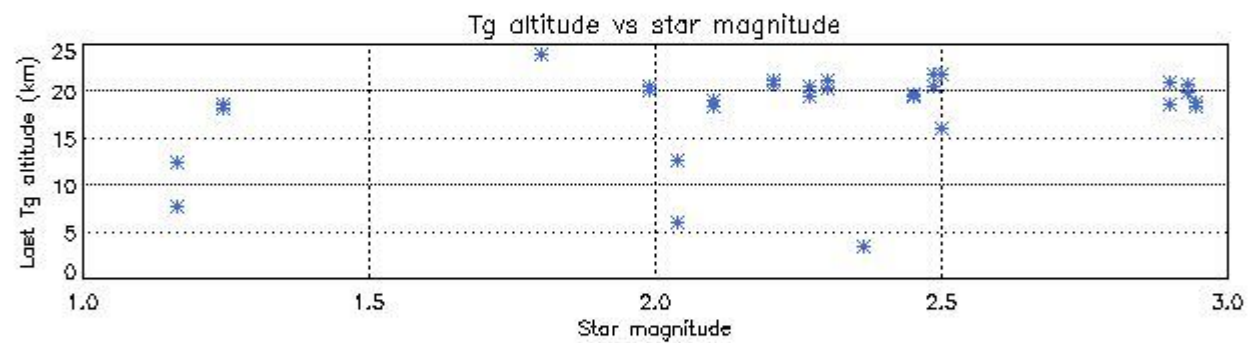
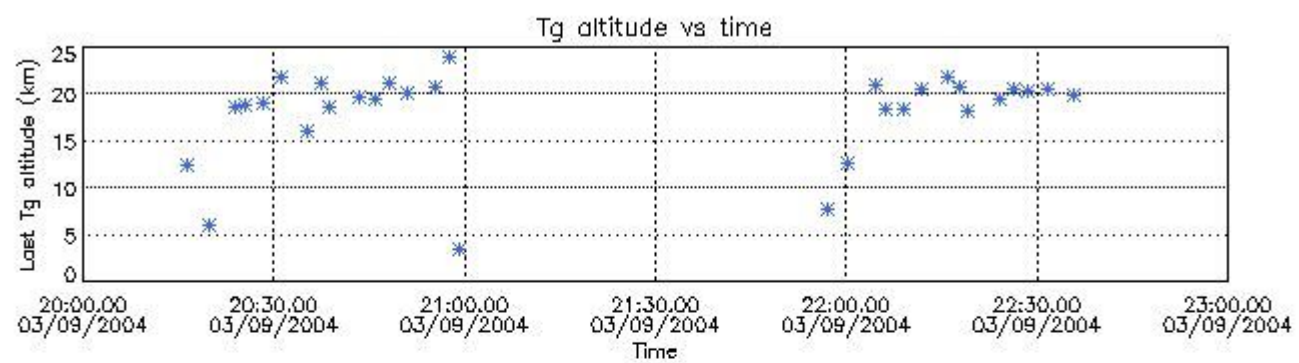
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



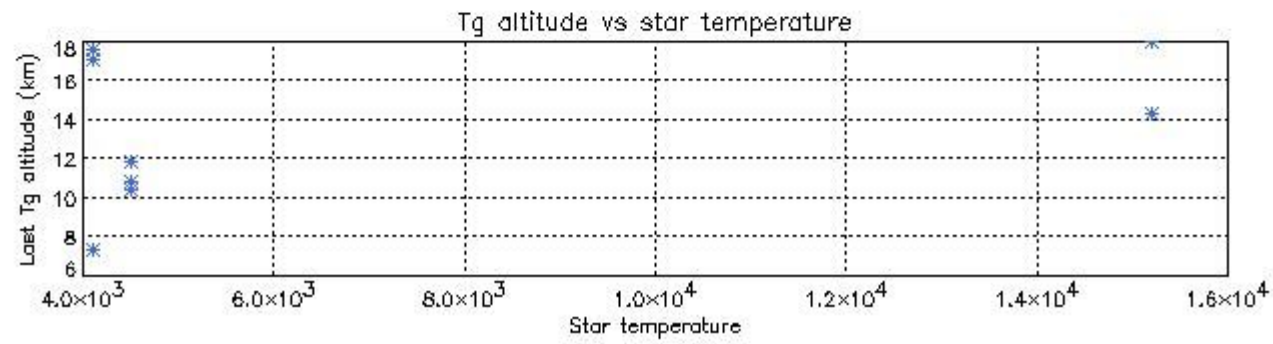
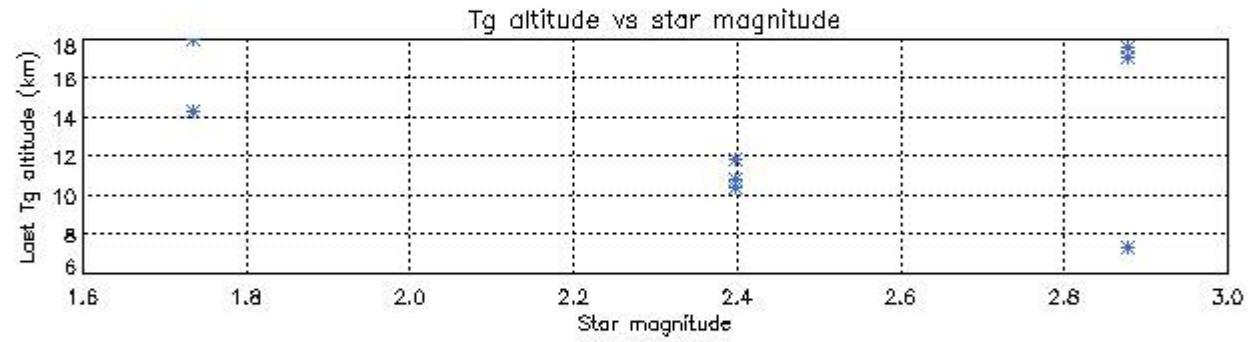
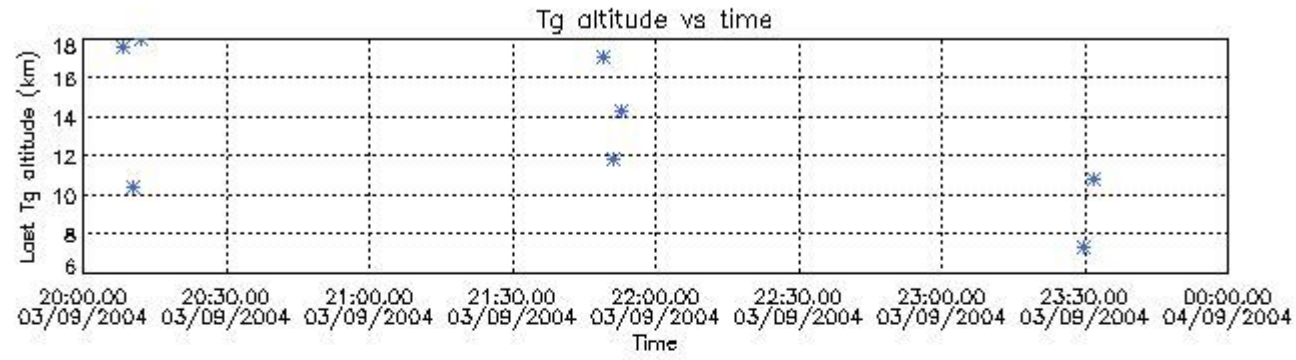
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

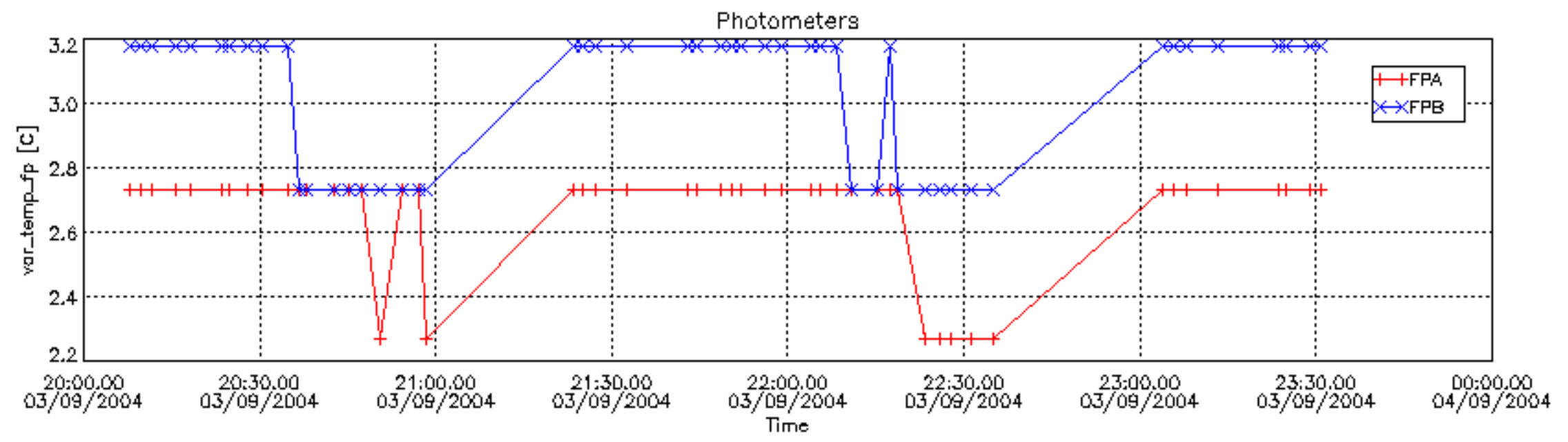
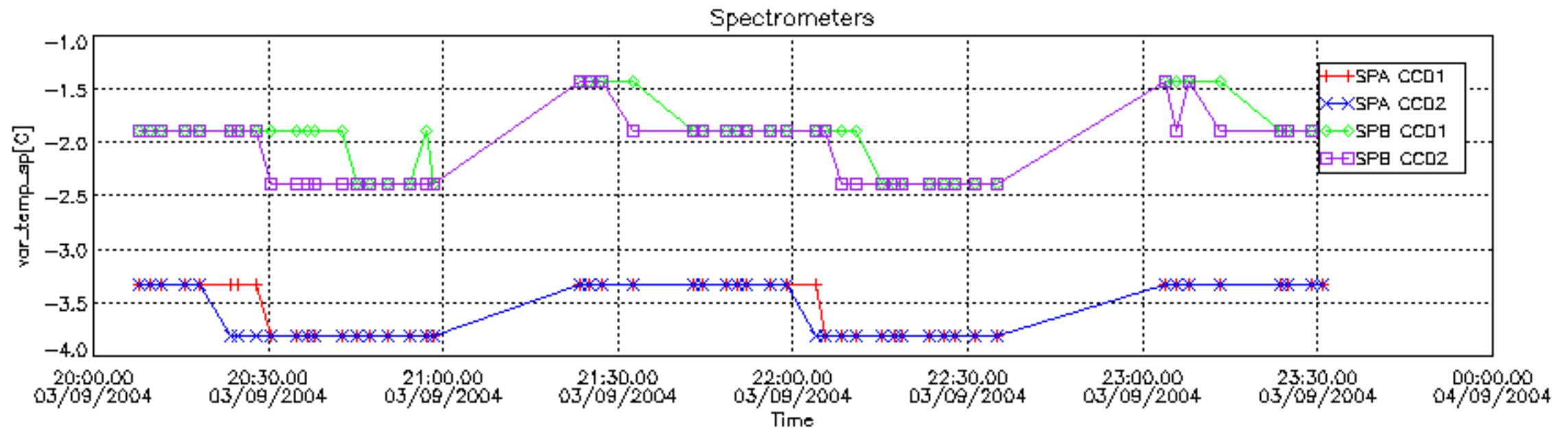
Tangent altitude at which the star is lost

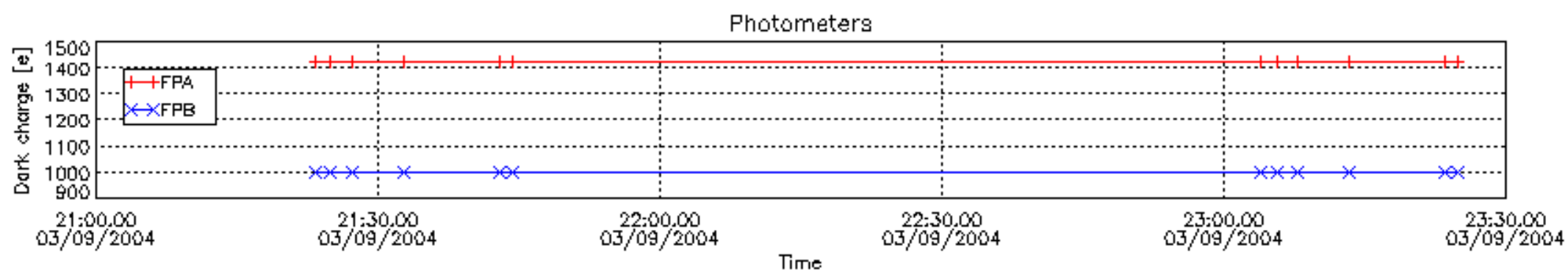
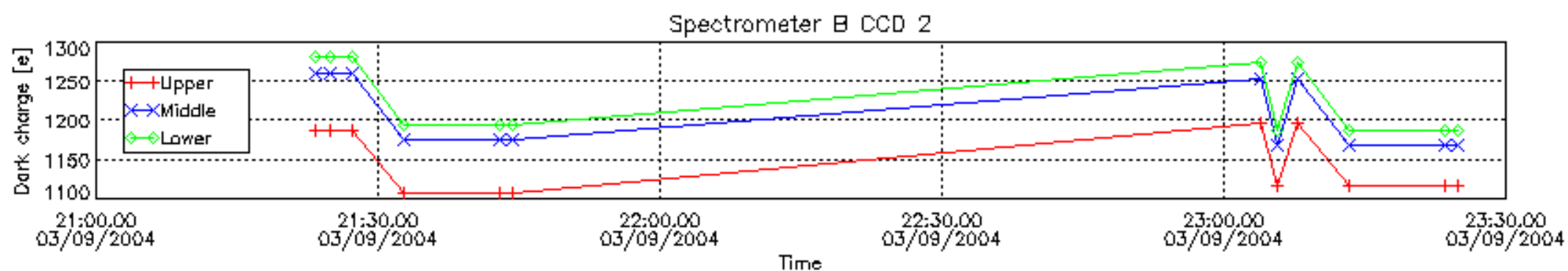
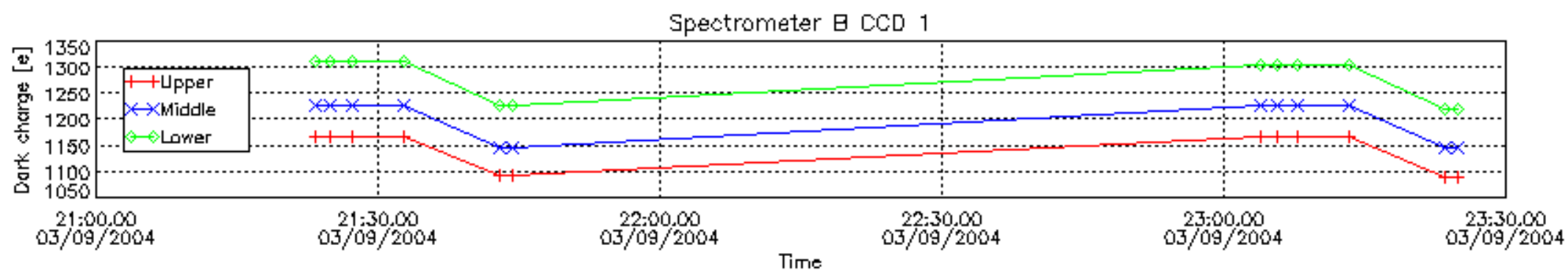
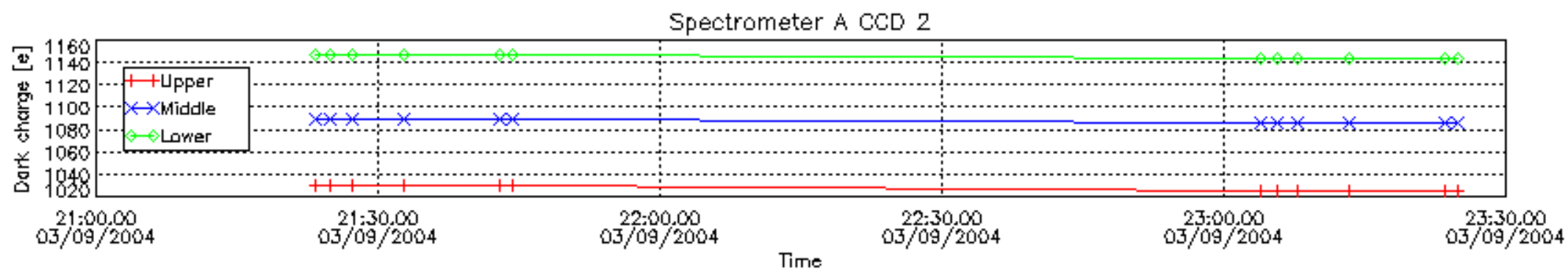
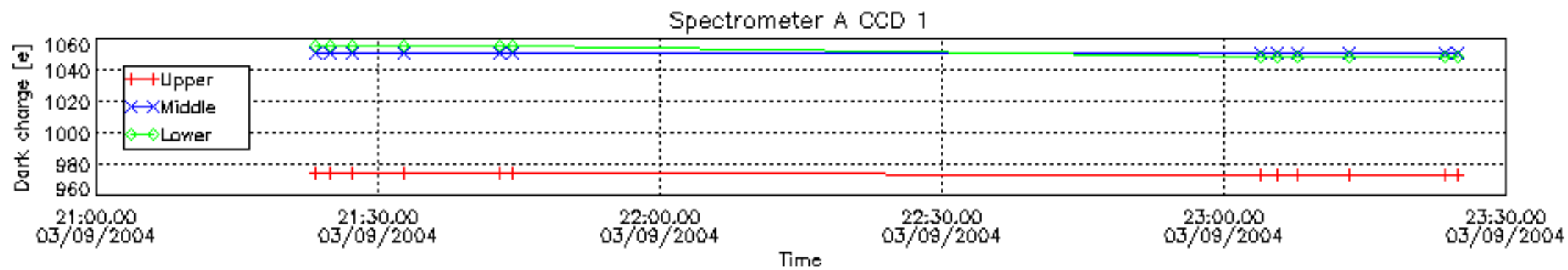


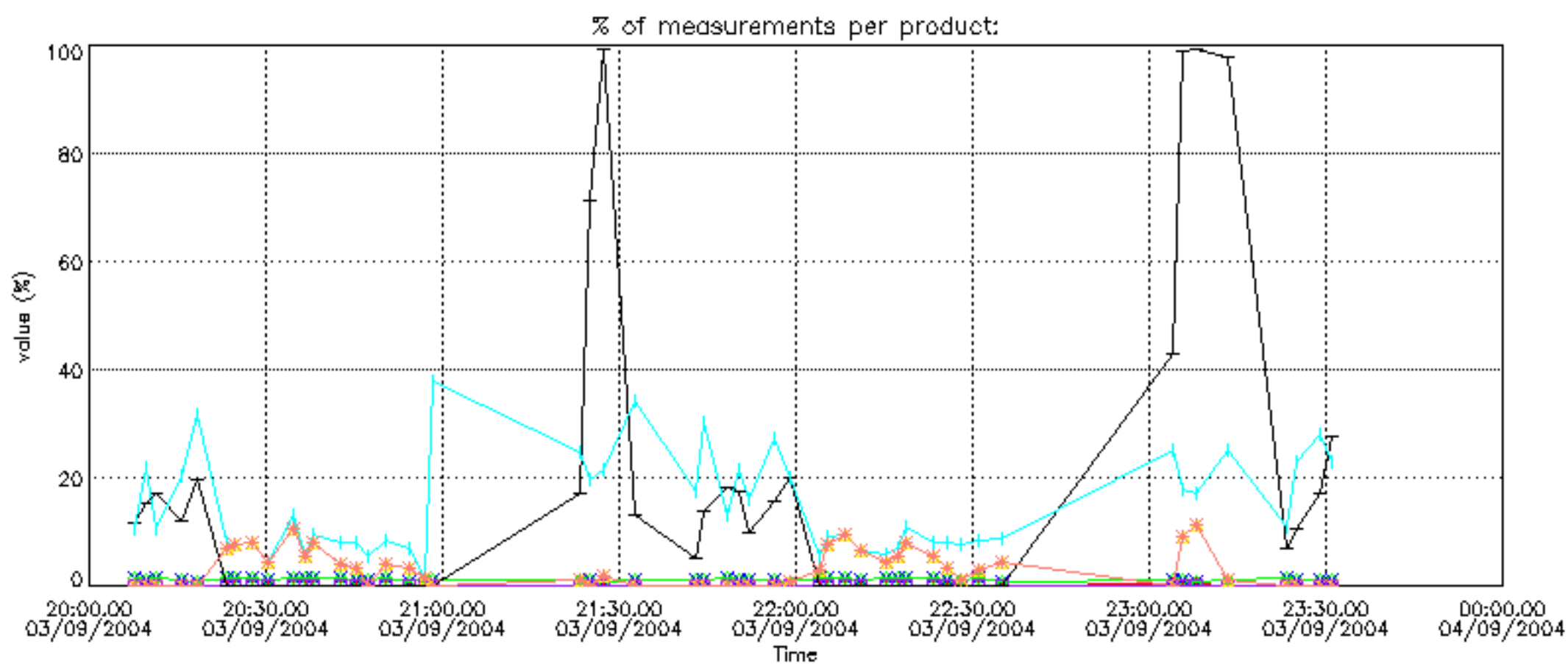
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

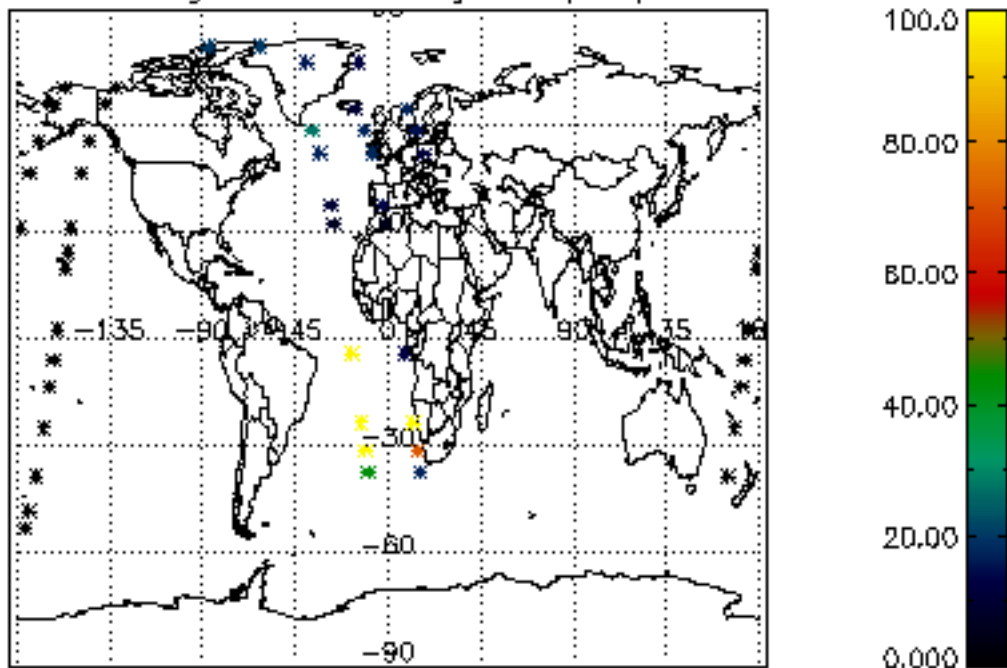
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.6	1447.8	1461.8	1447.0
St. deviation:	2.7255	4.4708	6.1698	7.2808
Maximum:	1487.0	1472.0	1506.0	1487.0
Minimum:	1457.0	1439.0	1426.0	1422.0
Number of data:	13250.	13250.	28400.	28400.



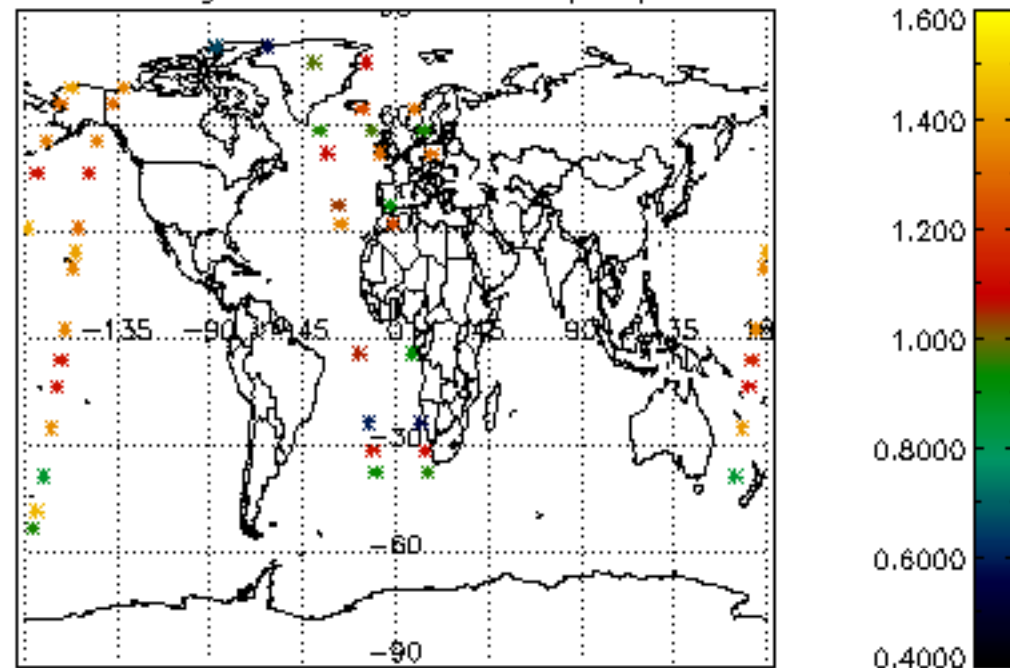




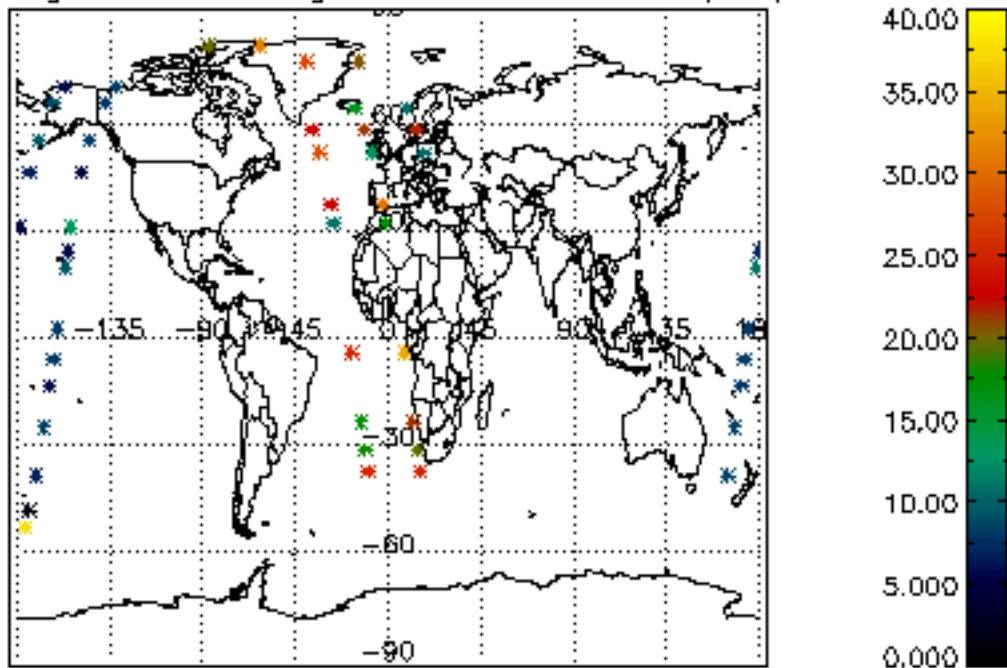
Percentage of cosmic ray hits per profile



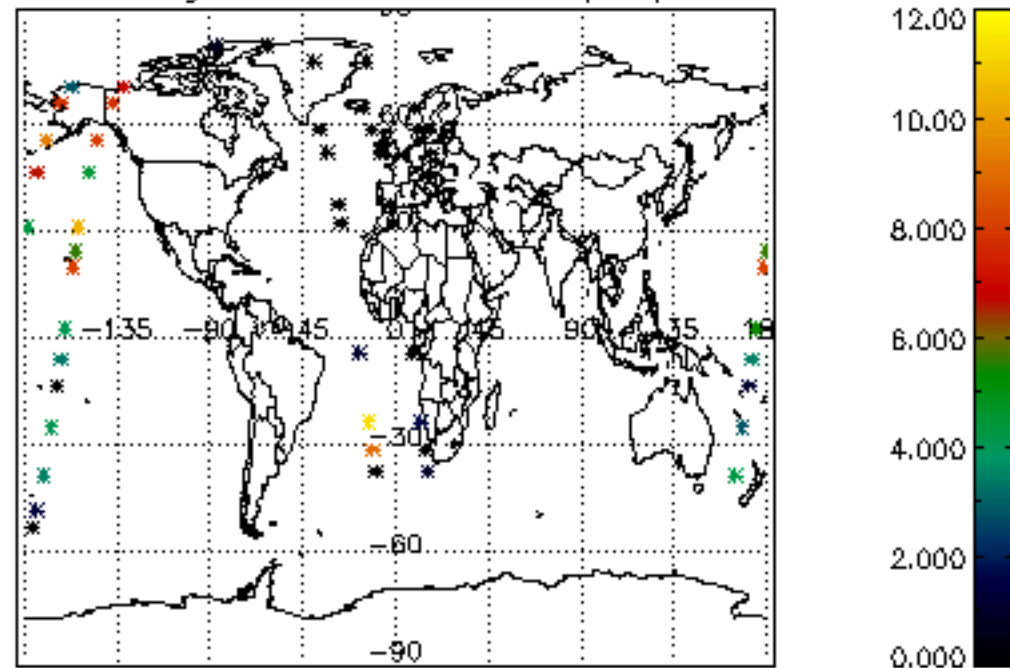
Percentage of datation errors per profile



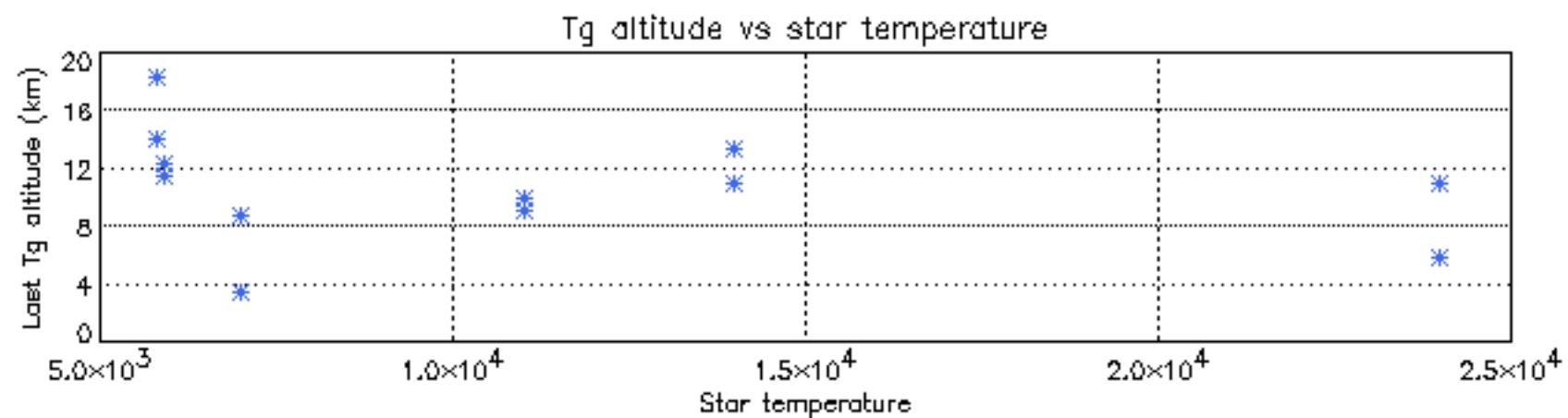
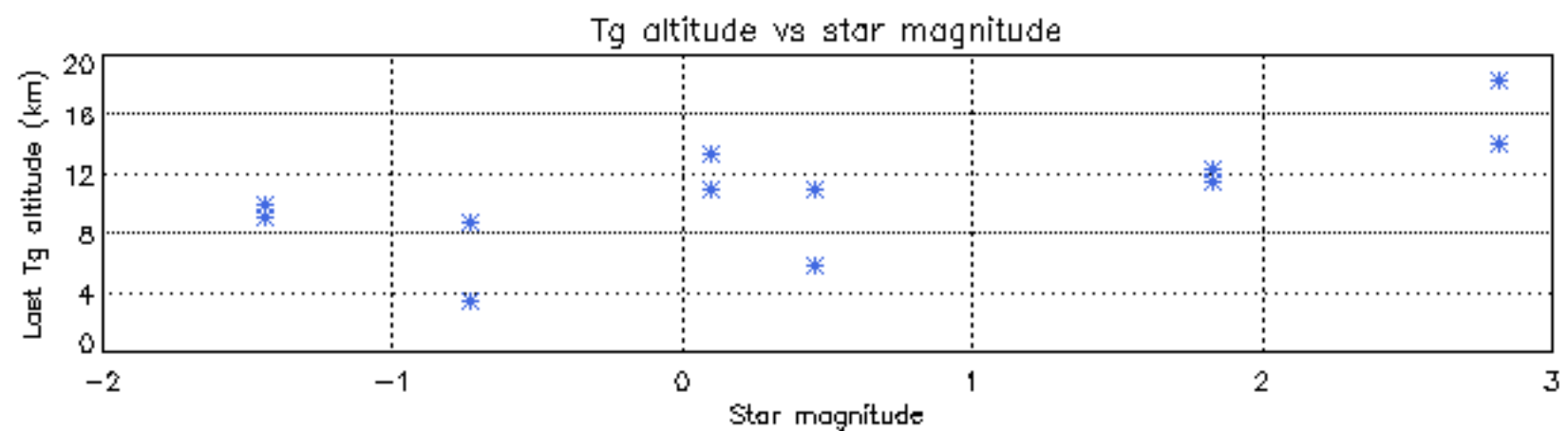
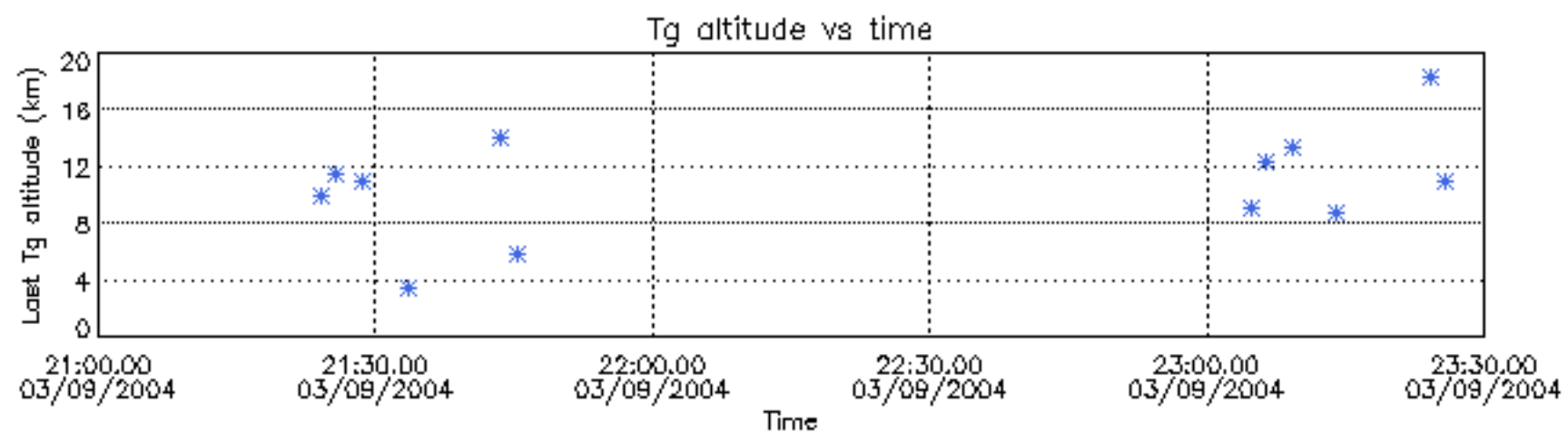
Percentage of star falling outside central band per profile



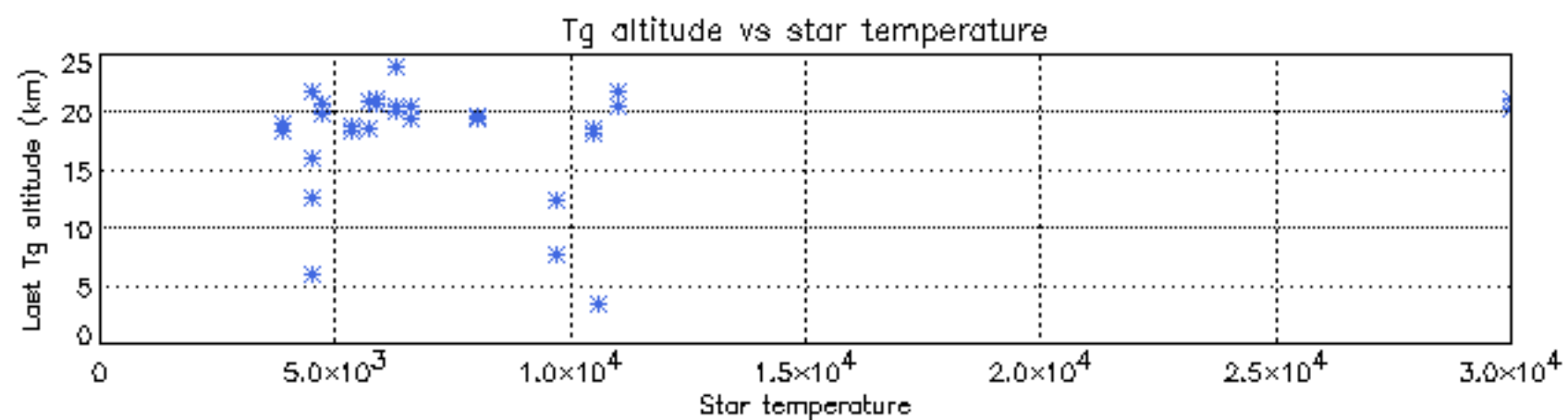
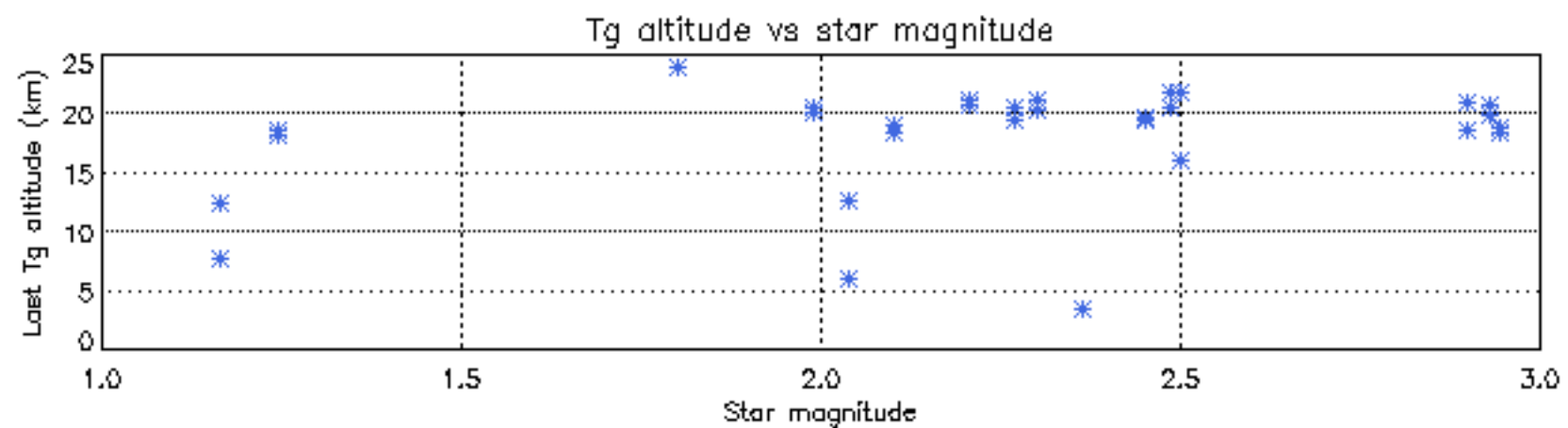
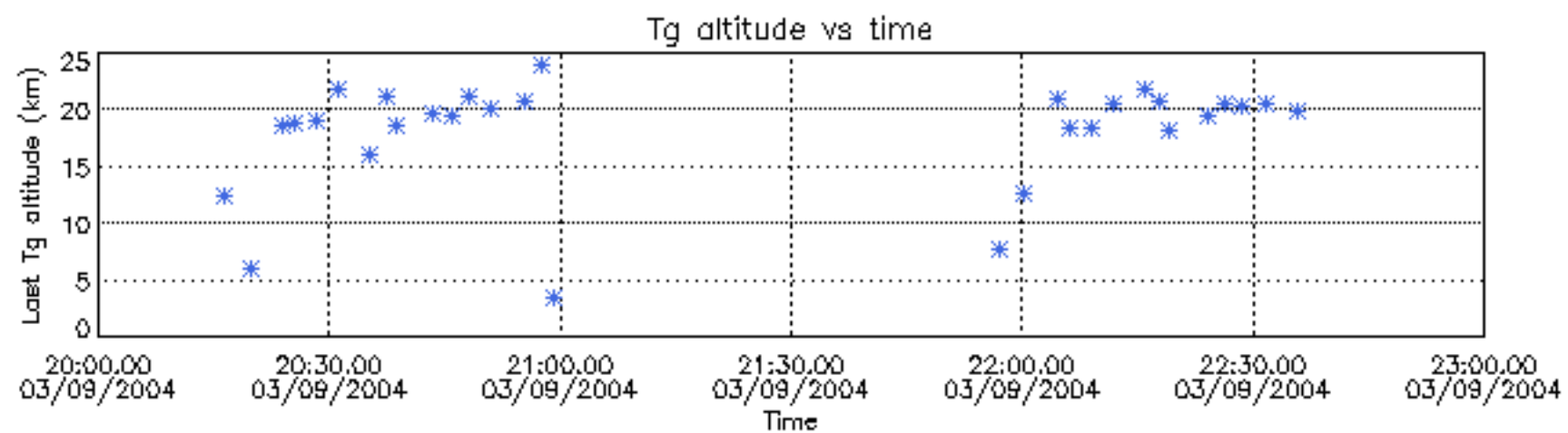
Percentage of saturation errors per profile



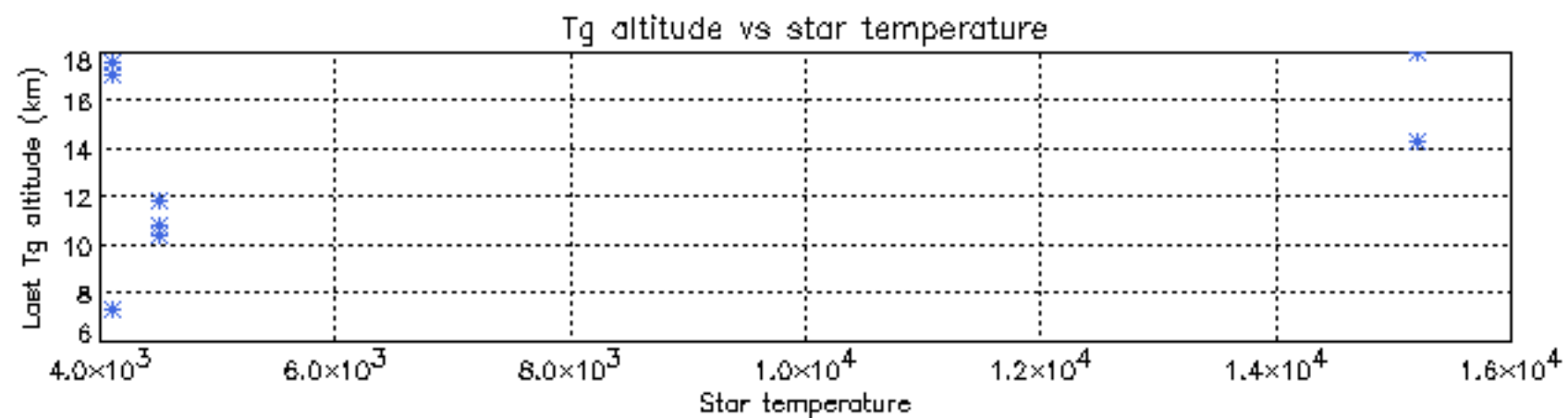
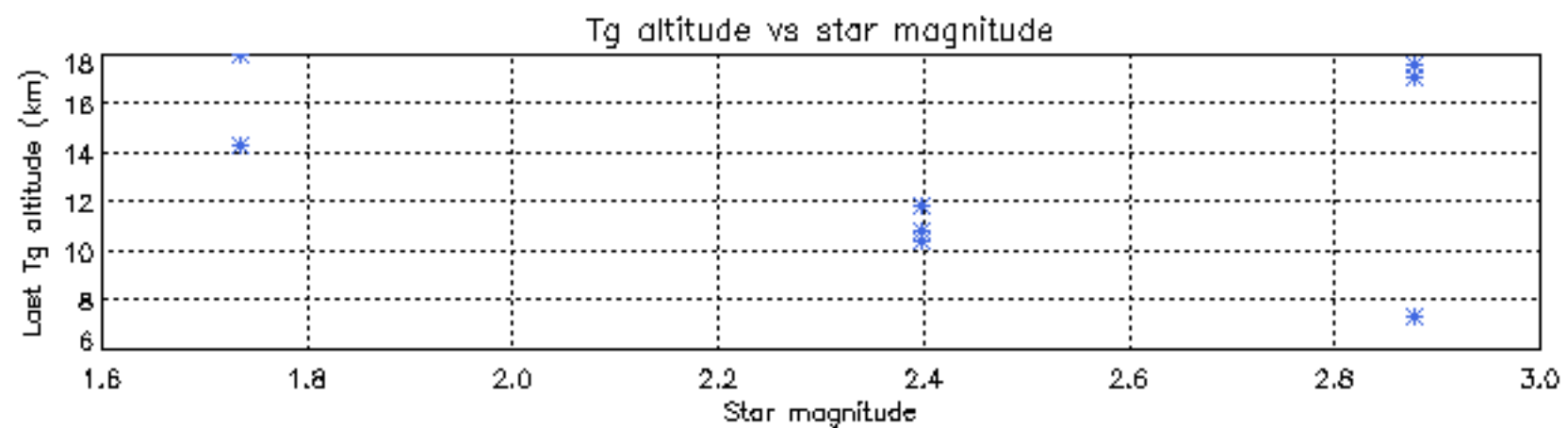
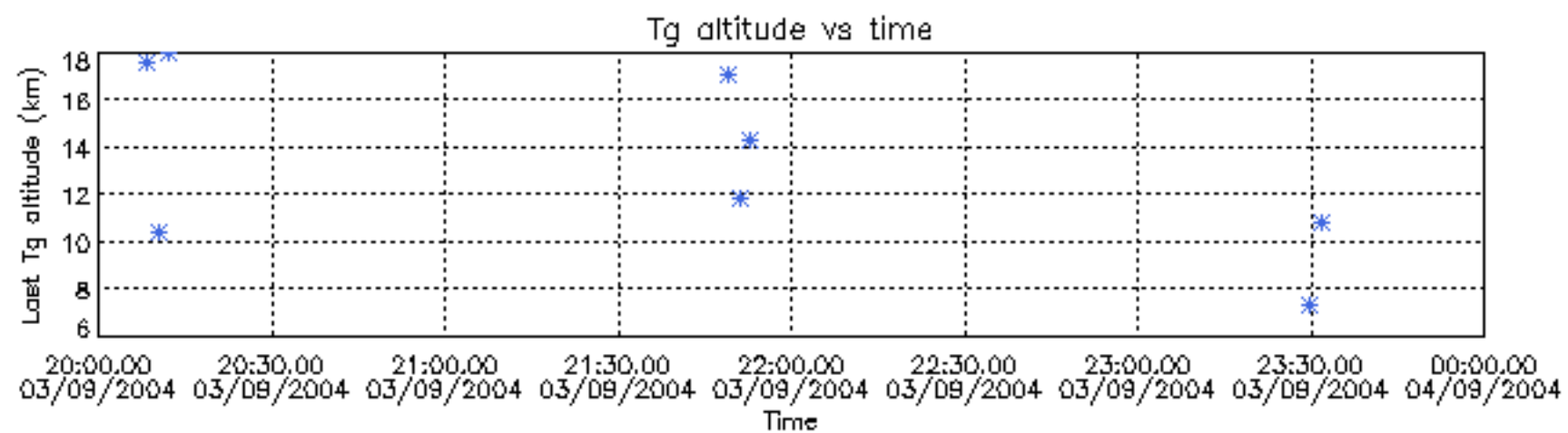
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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5; -92.2; 01-SEP-2004 00:47:44; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;13096
6; 527.2; 01-SEP-2004 00:58:03; Dark ; 43.0; 143; Alp Hyi ; 2.86; 7200;occ; 86; 0;13097
7; 602.6; 01-SEP-2004 00:59:19; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;13097
8; 861.7; 01-SEP-2004 01:03:38; Dark ; 50.0; 148; Alp Tuc ; 2.88; 4100;occ; 100; 0;13097
9; 1049.6; 01-SEP-2004 01:06:46; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;13097
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16; 2485.3; 01-SEP-2004 01:30:41; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;13097
17; 2598.4; 01-SEP-2004 01:32:35; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;13097
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21; 1805.4; 01-SEP-2004 04:40:33; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;13099
22; 1893.3; 01-SEP-2004 04:42:01; Bright; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;13099
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27; 2676.8; 01-SEP-2004 06:35:41; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;13100
28; 2973.2; 01-SEP-2004 06:40:37; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;13100
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13; -90.3; 01-SEP-2004 07:30:10; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;13100
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17;-1241.3; 01-SEP-2004 08:51:35; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;13101

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11; 1281.7; 10-SEP-2004 23:15:39; Dark ; 40.0; 172; Gam Gru ; 3.00; 13100;occ; 80; 0;13239
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13; 1514.8; 10-SEP-2004 23:19:32; Dark ; 70.5; 52; 16Bet Cet ; 2.04; 4500;occ; 141; 0;13239
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3;	-3943.6;	19-SEP-2004	12:02:11;	Bright;	;	39.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	79;	0;	13361
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17;	-1473.4;	19-SEP-2004	12:43:21;	Bright;	;	64.0;	17;	78Bet	Gem	;	1.16;	4500;	occ;	128;	0;	13361
18;	-1282.2;	19-SEP-2004	12:46:32;	Dark	;	170.0;	28;	12Bet	Tau	;	1.65;	15200;	occ;	340;	0;	13361
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5;-4093.1; 30-SEP-2004 19:36:43; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;13523
6;-3869.7; 30-SEP-2004 19:40:26; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;13523
7;-3651.3; 30-SEP-2004 19:44:05; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;13523
8;-3509.5; 30-SEP-2004 19:46:26; Bright; 65.5; 105; 6Bet Ari ; 2.64; 8900;occ; 131; 0;13523
9;-3378.6; 30-SEP-2004 19:48:37; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13523
10;-3086.4; 30-SEP-2004 19:53:30; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;13523
11;-3006.3; 30-SEP-2004 19:54:50; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13523
12;-2769.1; 30-SEP-2004 19:58:47; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;13523
13;-2608.8; 30-SEP-2004 20:01:27; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13523
14;-2485.4; 30-SEP-2004 20:03:31; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;13523
15;-2131.6; 30-SEP-2004 20:09:24; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;13523
16;-2041.6; 30-SEP-2004 20:10:54; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;13523
17;-1848.9; 30-SEP-2004 20:14:07; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;13523
18;-1703.2; 30-SEP-2004 20:16:33; Bright; 90.0; 107; 37The Aur ; 2.65; 11000;occ; 180; 0;13523
19;-1524.7; 30-SEP-2004 20:19:31; Bright; 54.5; 24; 66Alp Gem ; 1.58; 10200;occ; 109; 0;13523
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30; 913.9; 30-SEP-2004 21:00:10; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13524

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