

GOMOS Daily Report 01-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	02SEP2004 05:06:25
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (01SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (02SEP2004 00:00:00)

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

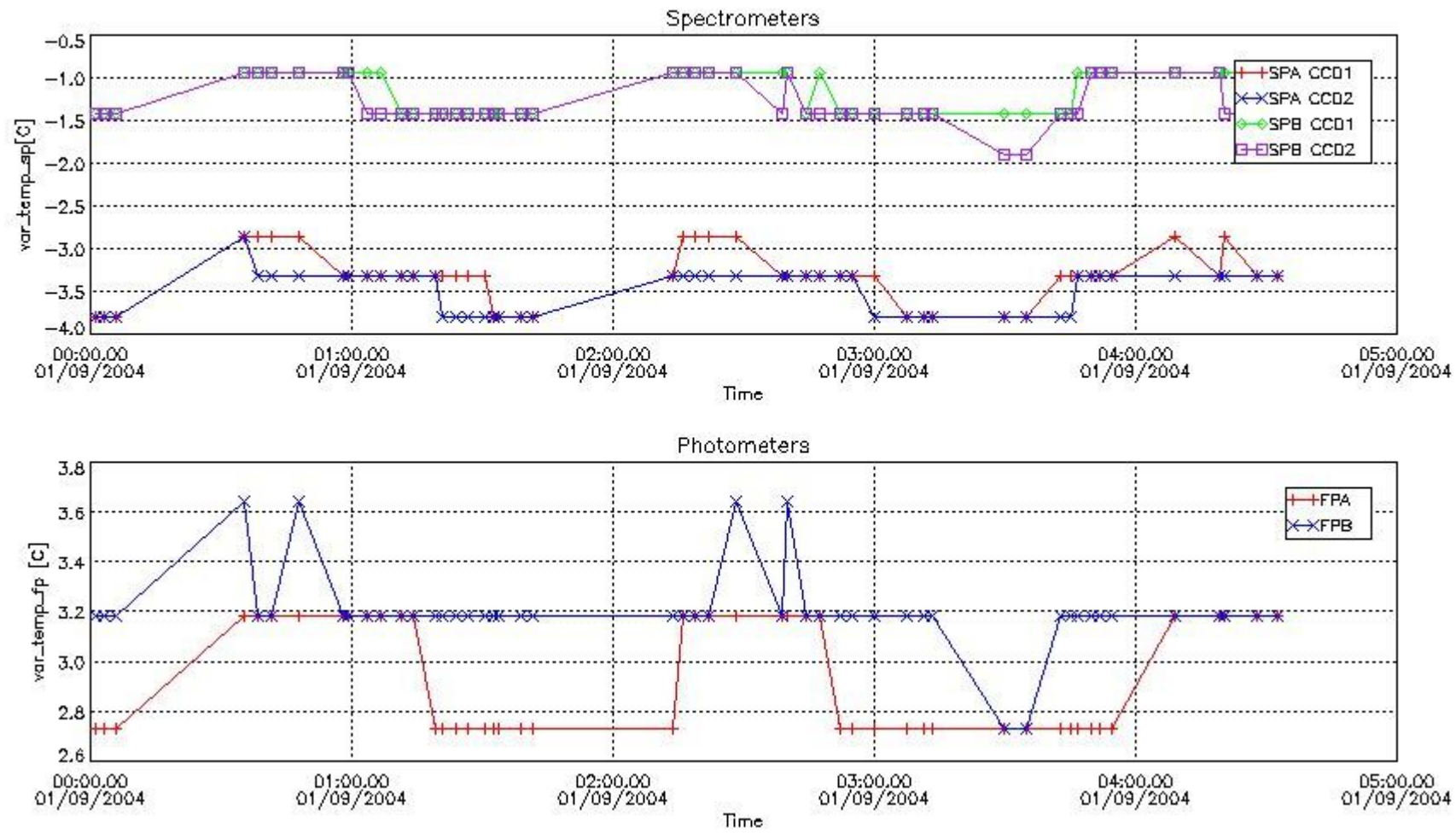
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040901_000100_000000472030_00016_13096_0018.N1	01-SEP-2004 00:01:00	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	13096	No
GOM_TRA_1PNPDE20040901_000308_000000482030_00016_13096_0019.N1	01-SEP-2004 00:03:08	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	13096	No
GOM_TRA_1PNPDE20040901_000550_000000382030_00016_13096_0020.N1	01-SEP-2004 00:05:50	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	13096	No
GOM_TRA_1PNPDE20040901_003529_000000712030_00016_13096_0000.N1	01-SEP-2004 00:35:29	Dark	71.000	27	24Gam Ori	1.6360	26000.	142	13096	Yes
GOM_TRA_1PNPDE20040901_003814_000000522030_00016_13096_0001.N1	01-SEP-2004 00:38:14	Dark	52.000	1	9Alp CMa	-1.4400	11000.	104	13096	No
GOM_TRA_1PNPDE20040901_004127_000000812030_00016_13096_0002.N1	01-SEP-2004 00:41:27	Dark	81.000	7	19Bet Ori	0.10000	14000.	162	13096	No
GOM_TRA_1PNPDE20040901_004744_000000542030_00016_13096_0003.N1	01-SEP-2004 00:47:44	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	13096	No
GOM_TRA_1PNPDE20040901_005803_000000432030_00017_13097_0004.N1	01-SEP-2004 00:58:03	Dark	43.000	143	Alp Hyi	2.8570	7200.0	86	13097	No
GOM_TRA_1PNPDE20040901_005919_000000492030_00017_13097_0005.N1	01-SEP-2004 00:59:19	Dark	49.000	9	Alp Eri	0.45300	24000.	98	13097	No
GOM_TRA_1PNPDE20040901_010338_000000502030_00017_13097_0006.N1	01-SEP-2004 01:03:38	Twilight	50.000	148	Alp Tuc	2.8780	4100.0	100	13097	No
GOM_TRA_1PNPDE20040901_010646_000000482030_00017_13097_0007.N1	01-SEP-2004 01:06:46	Twilight	47.500	63	Bet Gru	2.1500	2800.0	95	13097	No
GOM_TRA_1PNPDE20040901_011124_000000502030_00017_13097_0008.N1	01-SEP-2004 01:11:24	Bright	49.500	18	24Alp PsA	1.1660	9700.0	99	13097	No
GOM_TRA_1PNPDE20040901_011407_000000822030_00017_13097_0009.N1	01-SEP-2004 01:14:07	Bright	82.000	52	16Bet Cet	2.0370	4500.0	164	13097	No
GOM_TRA_1PNPDE20040901_011921_000000412030_00017_13097_0010.N1	01-SEP-2004 01:19:21	Bright	40.500	154	22Bet Aqr	2.8990	5700.0	81	13097	No
GOM_TRA_1PNPDE20040901_012047_000000452030_00017_13097_0011.N1	01-SEP-2004 01:20:47	Bright	44.500	162	34Alp Aqr	2.9440	5350.0	89	13097	No
GOM_TRA_1PNPDE20040901_012349_000000412030_00017_13097_0012.N1	01-SEP-2004 01:23:49	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	13097	No
GOM_TRA_1PNPDE20040901_012642_000000502030_00017_13097_0013.N1	01-SEP-2004 01:26:42	Bright	50.000	90	54Alp Peg	2.4870	11000.	100	13097	No
GOM_TRA_1PNPDE20040901_013041_000000362030_00017_13097_0014.N1	01-SEP-2004 01:30:41	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	13097	No
GOM_TRA_1PNPDE20040901_013235_000000372030_00017_13097_0015.N1	01-SEP-2004 01:32:35	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	13097	No
GOM_TRA_1PNPDE20040901_013350_000000412030_00017_13097_0016.N1	01-SEP-2004 01:33:50	Bright	41.000	19	50Alp Cyg	1.2460	10500.	82	13097	No
GOM_TRA_1PNPDE20040901_013850_000000382030_00017_13097_0017.N1	01-SEP-2004 01:38:50	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13097	No
GOM_TRA_1PNPDE20040901_014135_000000462030_00017_13097_0018.N1	01-SEP-2004 01:41:35	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	13097	No
GOM_TRA_1PNPDE20040901_021348_000000672030_00017_13097_0000.N1	01-SEP-2004 02:13:48	Dark	67.000	14	58Alp Ori	0.87000	3000.0	134	13097	No
GOM_TRA_1PNPDE20040901_021606_000000762030_00017_13097_0001.N1	01-SEP-2004 02:16:06	Dark	76.000	27	24Gam Ori	1.6360	26000.	152	13097	No
GOM_TRA_1PNPDE20040901_021851_000000522030_00017_13097_0002.N1	01-SEP-2004 02:18:51	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	13097	No
GOM_TRA_1PNPDE20040901_022204_000000942030_00017_13097_0003.N1	01-SEP-2004 02:22:04	Dark	93.500	7	19Bet Ori	0.10000	14000.	187	13097	No
GOM_TRA_1PNPDE20040901_022820_000000522030_00017_13097_0004.N1	01-SEP-2004 02:28:20	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	13097	No
GOM_TRA_1PNPDE20040901_023840_000000432030_00018_13098_0005.N1	01-SEP-2004 02:38:40	Dark	43.000	143	Alp Hyi	2.8570	7200.0	86	13098	No
GOM_TRA_1PNPDE20040901_023955_000000482030_00018_13098_0006.N1	01-SEP-2004 02:39:55	Dark	48.000	9	Alp Eri	0.45300	24000.	96	13098	No
GOM_TRA_1PNPDE20040901_024416_000000442030_00018_13098_0007.N1	01-SEP-2004 02:44:16	Twilight	43.500	148	Alp Tuc	2.8780	4100.0	87	13098	No
GOM_TRA_1PNPDE20040901_024722_000000462030_00018_13098_0008.N1	01-SEP-2004 02:47:22	Twilight	46.000	63	Bet Gru	2.1500	2800.0	92	13098	No
GOM_TRA_1PNPDE20040901_025200_000000522030_00018_13098_0009.N1	01-SEP-2004 02:52:00	Bright	52.000	18	24Alp PsA	1.1660	9700.0	104	13098	No
GOM_TRA_1PNPDE20040901_025442_000000842030_00018_13098_0010.N1	01-SEP-2004 02:54:42	Bright	83.500	52	16Bet Cet	2.0370	4500.0	167	13098	No
GOM_TRA_1PNPDE20040901_025956_000000432030_00018_13098_0011.N1	01-SEP-2004 02:59:56	Bright	42.500	154	22Bet Aqr	2.8990	5700.0	85	13098	No
GOM_TRA_1PNPDE20040901_030717_000000492030_00018_13098_0014.N1	01-SEP-2004 03:07:17	Bright	49.000	90	54Alp Peg	2.4870	11000.	98	13098	No
GOM_TRA_1PNPDE20040901_031117_000000382030_00018_13098_0015.N1	01-SEP-2004 03:11:17	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	13098	No
GOM_TRA_1PNPDE20040901_031311_000000392030_00018_13098_0016.N1	01-SEP-2004 03:13:11	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	13098	No
GOM_TRA_1PNPDE20040901_032947_000000902030_00018_13098_0000.N1	01-SEP-2004 03:29:47	Bright	90.000	73	57Gam1And	2.2600	13100.	180	13098	No
GOM_TRA_1PNPDE20040901_033452_000000382030_00018_13098_0002.N1	01-SEP-2004 03:34:52	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	13098	No
GOM_TRA_1PNPDE20040901_034249_000000482030_00018_13098_0003.N1	01-SEP-2004 03:42:49	Bright	47.500	107	37The Aur	2.6490	11000.	95	13098	No
GOM_TRA_1PNPDE20040901_034505_000000432030_00018_13098_0004.N1	01-SEP-2004 03:45:05	Twilight	42.500	17	78Bet Gem	1.1610	4500.0	85	13098	No
GOM_TRA_1PNPDE20040901_034641_000000692030_00018_13098_0005.N1	01-SEP-2004 03:46:41	Twilight	69.000	28	12Bet Tau	1.6500	15200.	138	13098	No
GOM_TRA_1PNPDE20040901_034946_000000522030_00018_13098_0006.N1	01-SEP-2004 03:49:46	Twilight	52.000	44	24Gam Gem	1.9280	11000.	104	13098	No
GOM_TRA_1PNPDE20040901_035147_000000432030_00018_13098_0007.N1	01-SEP-2004 03:51:47	Twilight	42.500	8	10Alp CMi	0.40000	6500.0	85	13098	No
GOM_TRA_1PNPDE20040901_035425_000000782030_00018_13098_0008.N1	01-SEP-2004 03:54:25	Dark	78.000	14	58Alp Ori	0.87000	3000.0	156	13098	No
GOM_TRA_1PNPDE20040901_040857_000000442030_00018_13098_0012.N1	01-SEP-2004 04:08:57	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	13098	No
GOM_TRA_1PNPDE20040901_041917_000000442030_00019_13099_0013.N1	01-SEP-2004 04:19:17	Dark	43.500	143	Alp Hyi	2.8570	7200.0	87	13099	No
GOM_TRA_1PNPDE20040901_042034_000000482030_00019_13099_0014.N1	01-SEP-2004 04:20:34	Dark	47.500	9	Alp Eri	0.45300	24000.	95	13099	No
GOM_TRA_1PNPDE20040901_042759_000000462030_00019_13099_0016.N1	01-SEP-2004 04:27:59	Twilight	46.000	63	Bet Gru	2.1500	2800.0	92	13099	No

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



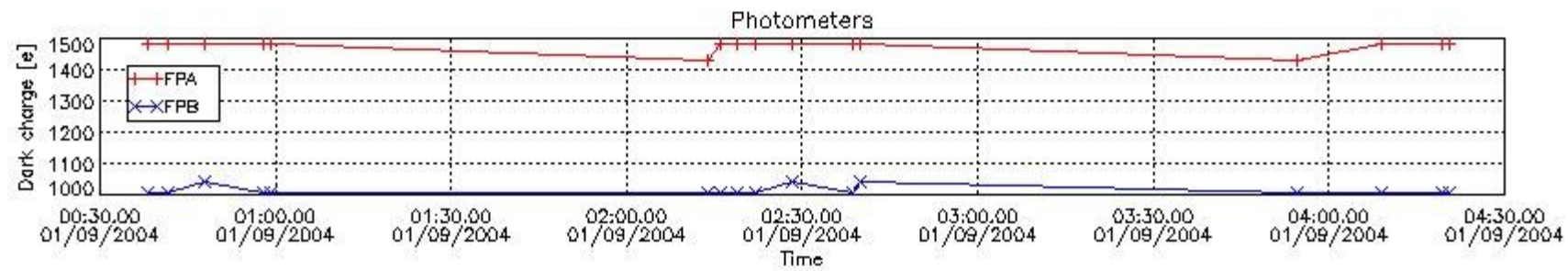
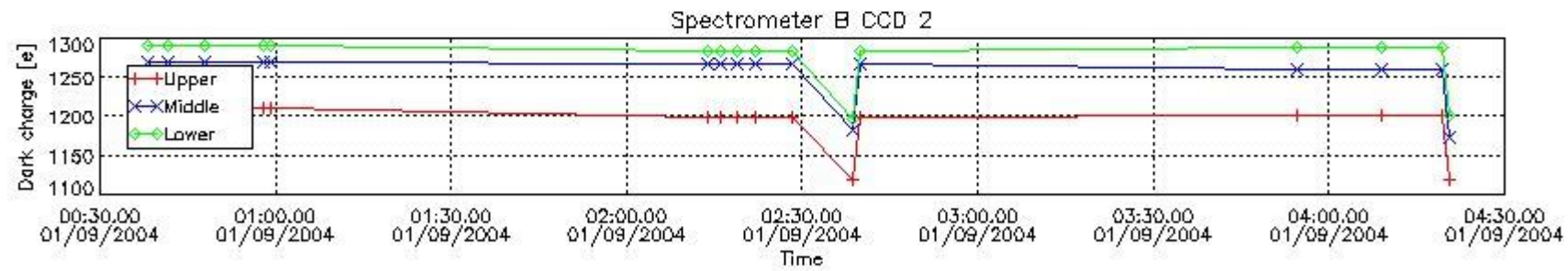
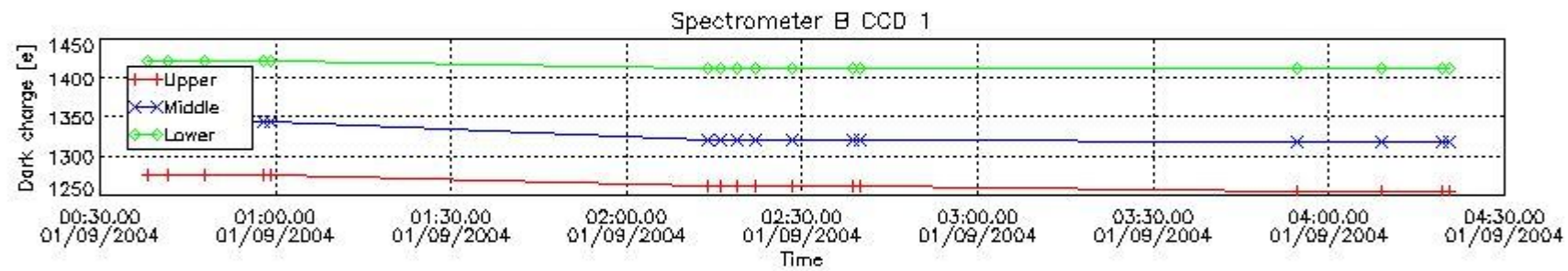
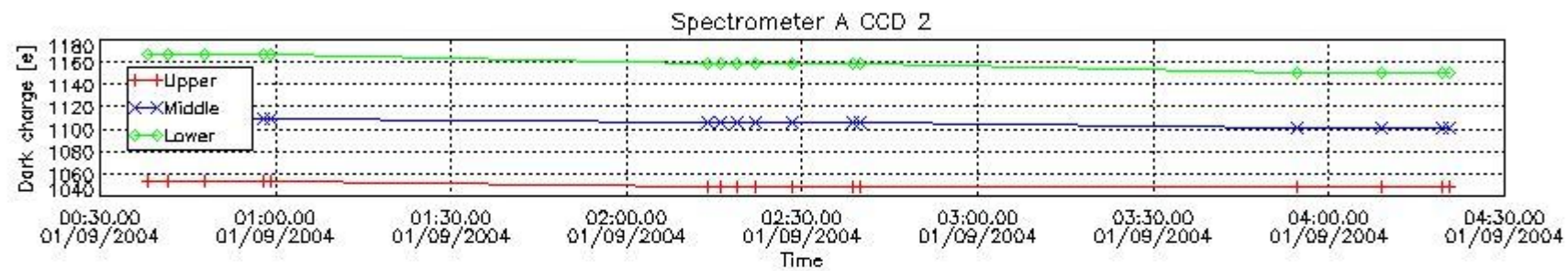
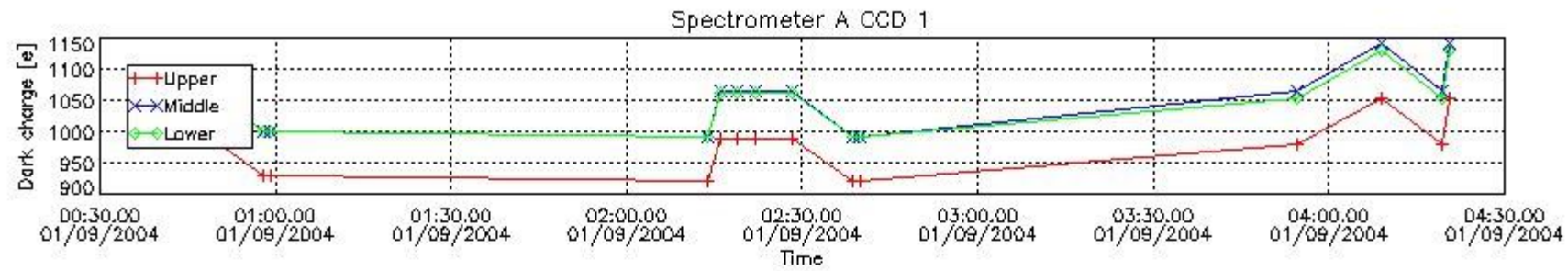
4. Overview of dark signal processing per product

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



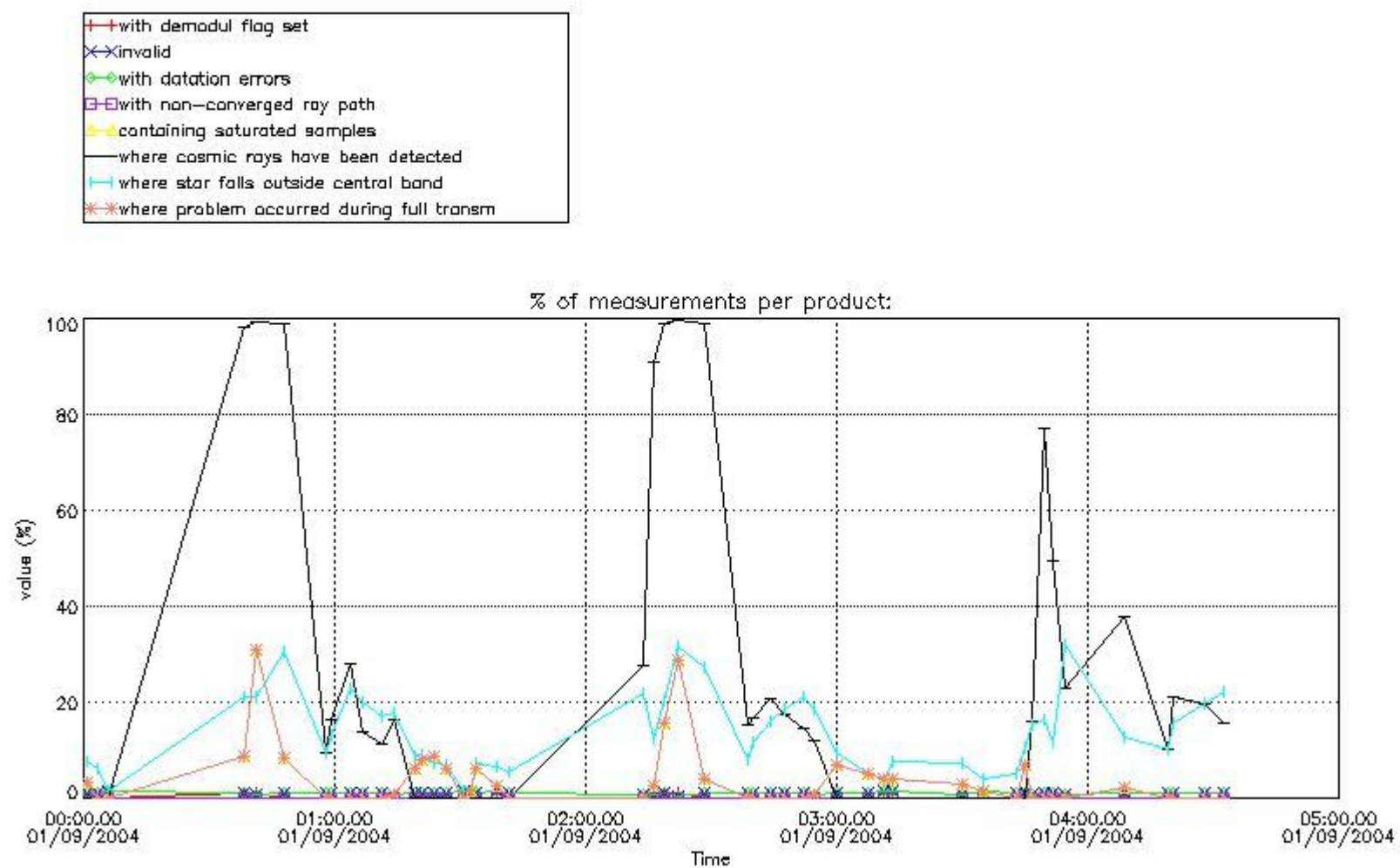
5. Demodulation flag and quality information monitoring

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.

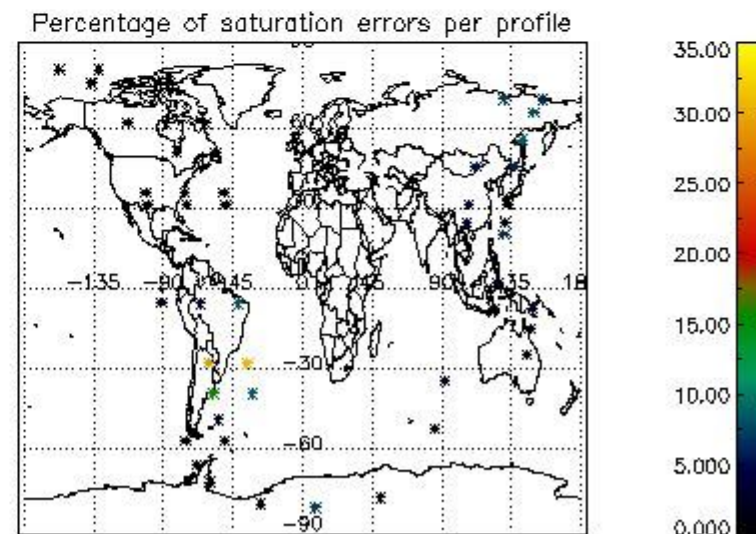
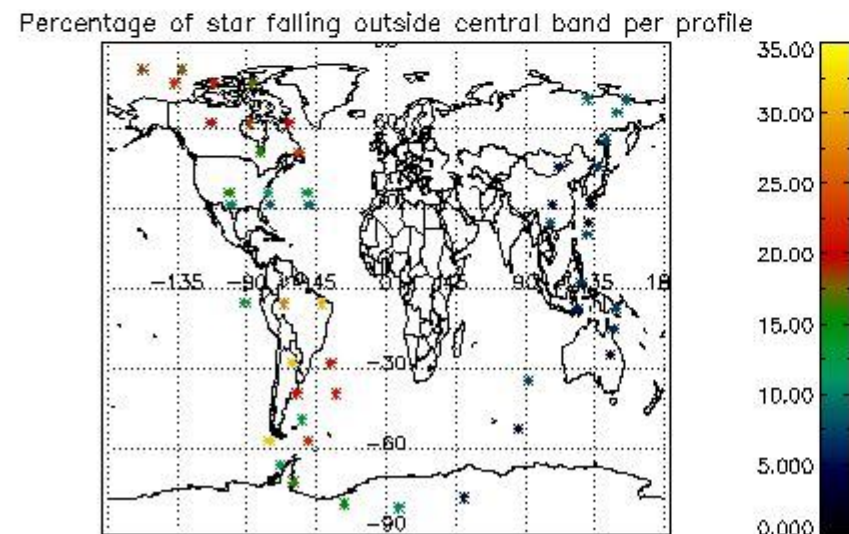
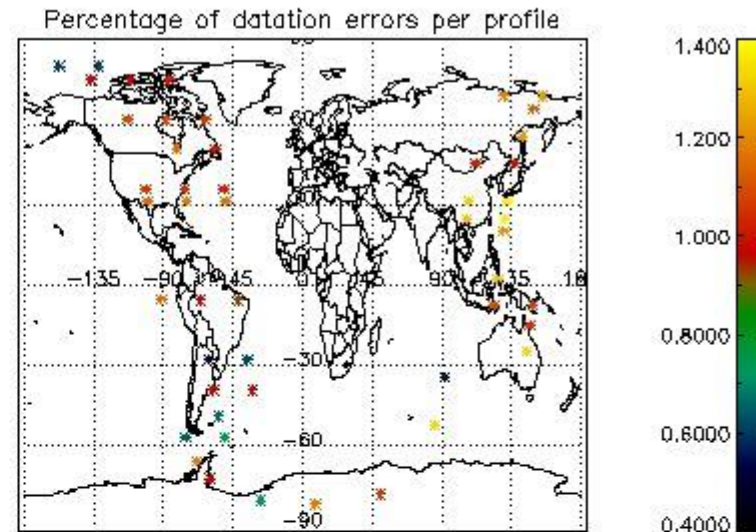
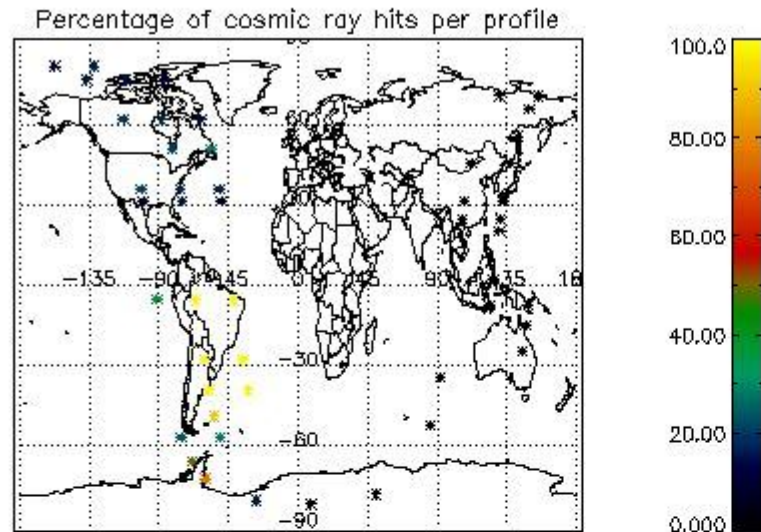
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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)



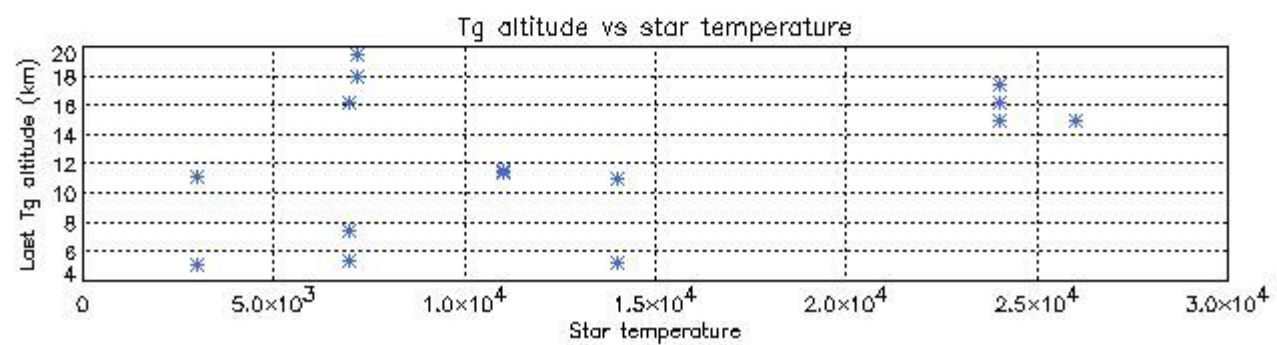
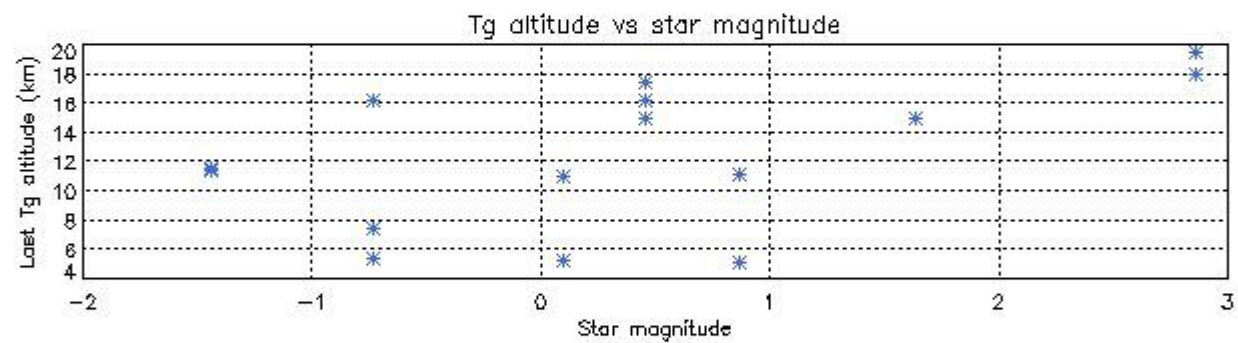
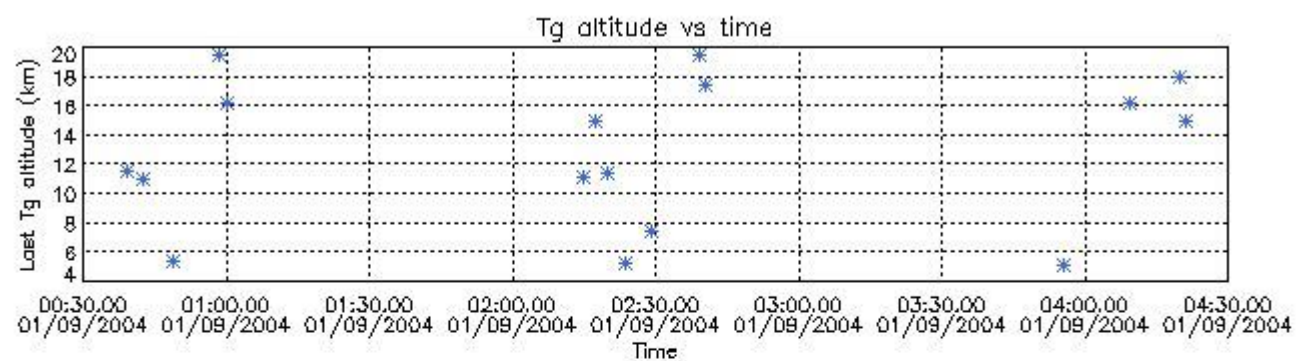
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.801	19.153	13.160
St. deviation:	5.0269	4.5127	2.1851
Maximum:	19.474	27.560	16.174
Minimum:	5.0804	10.655	8.9053
Number of data:	16.000	24.000	9.0000

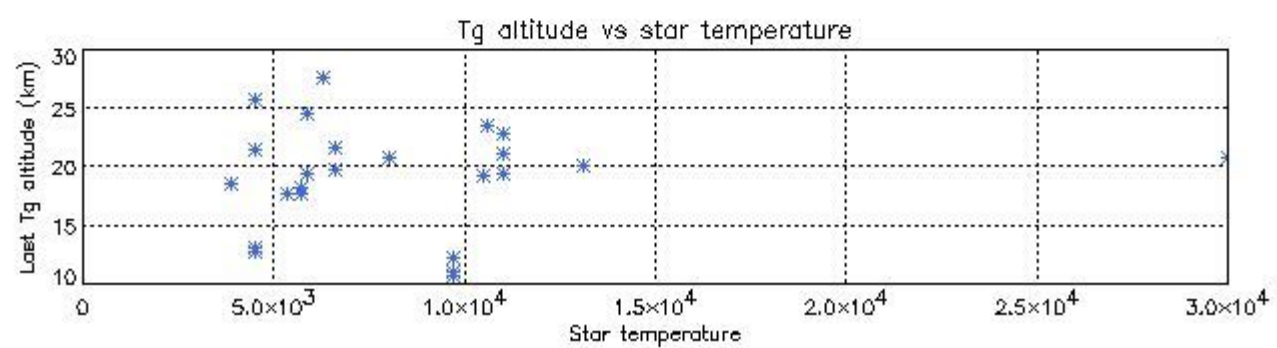
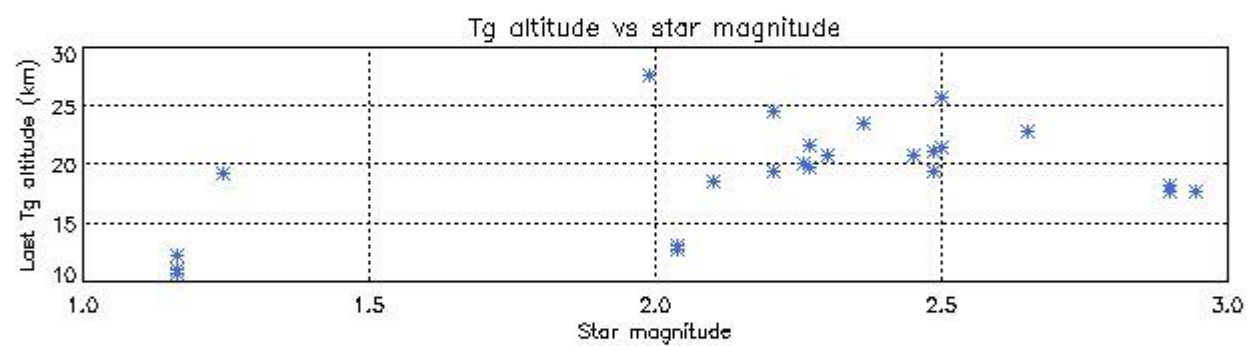
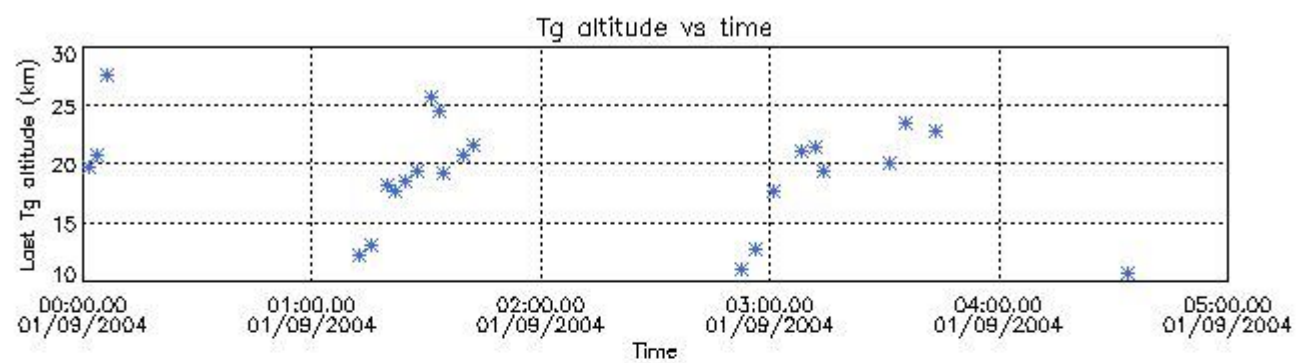
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



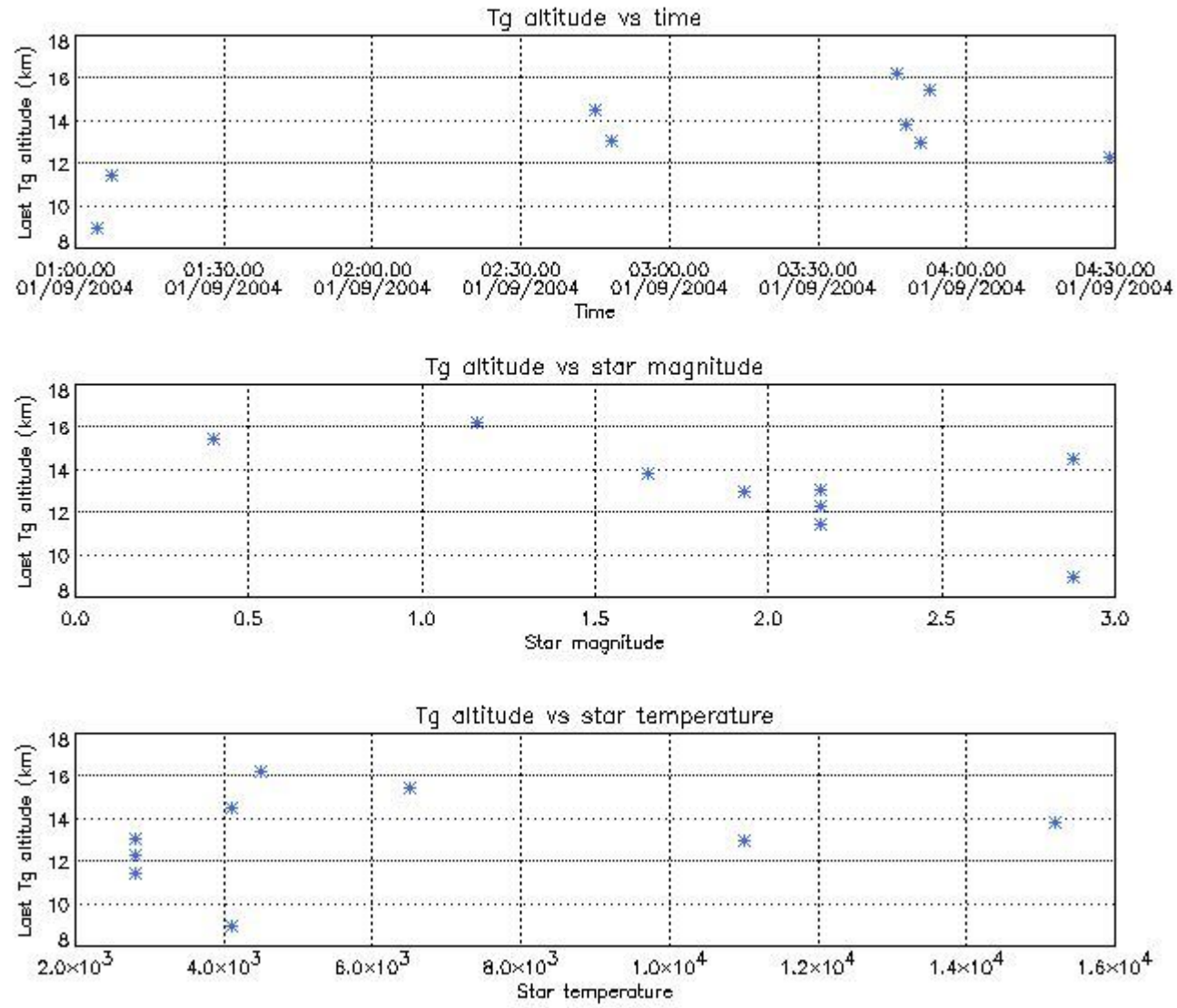
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

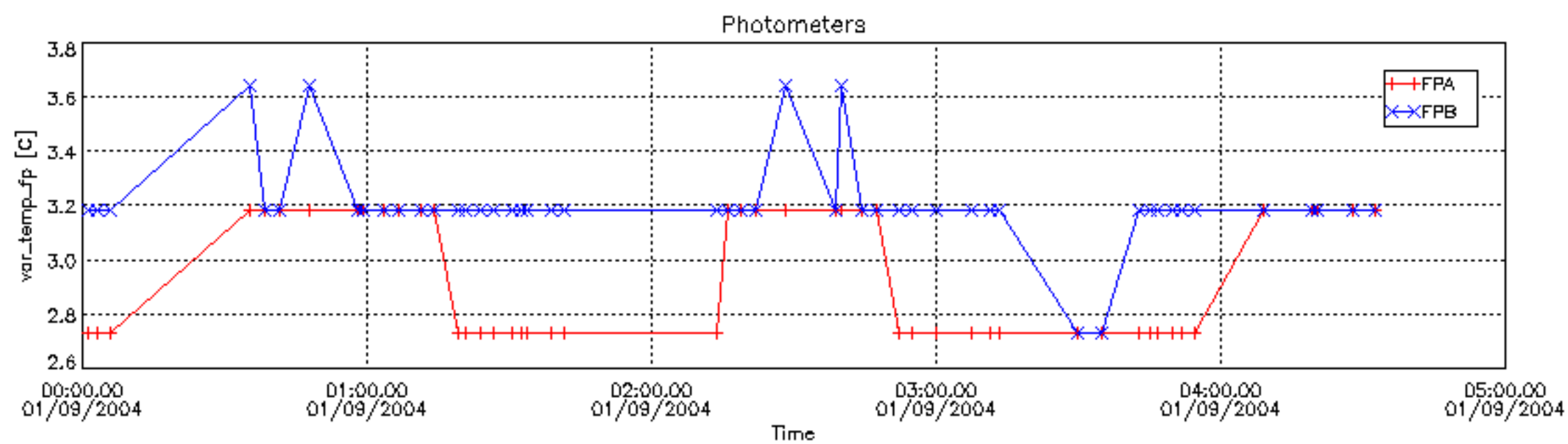
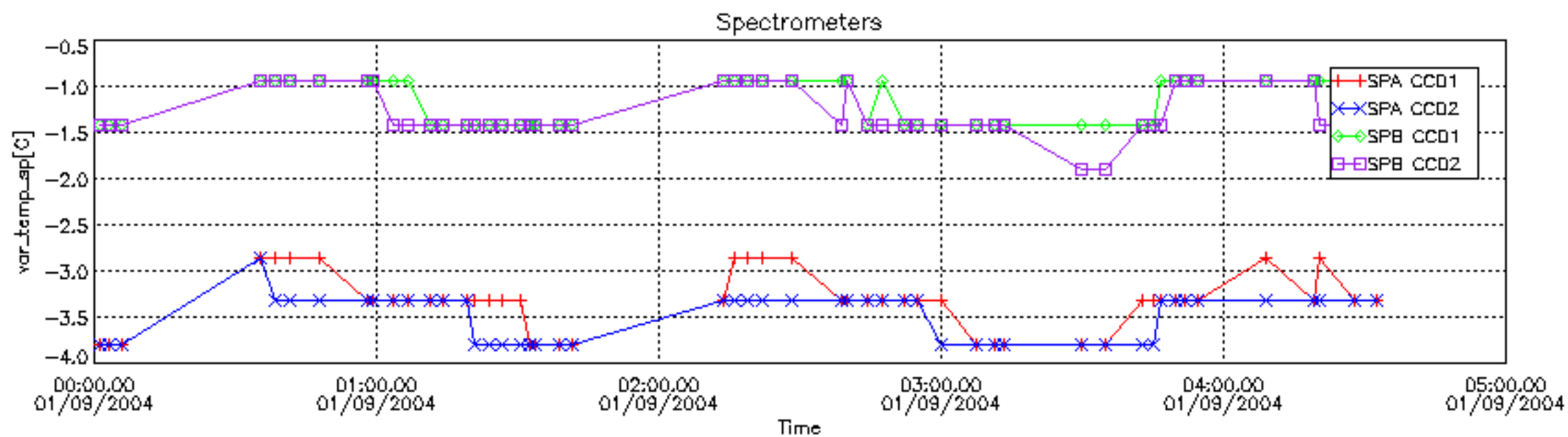
Tangent altitude at which the star is lost

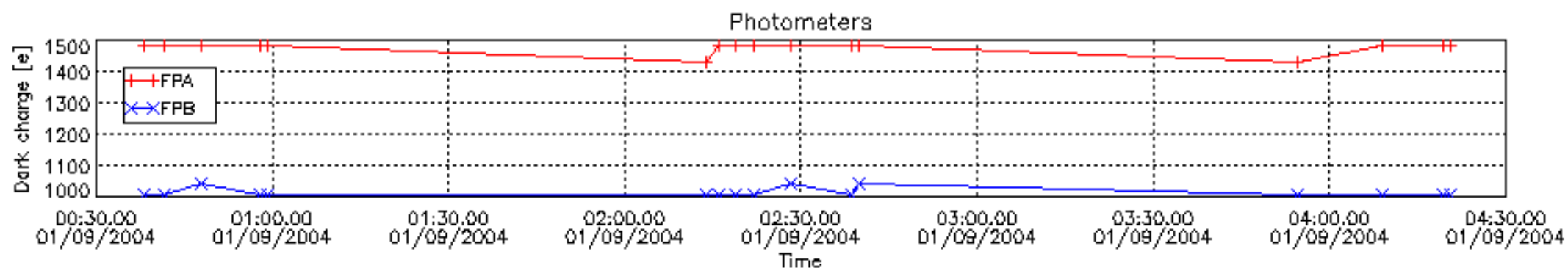
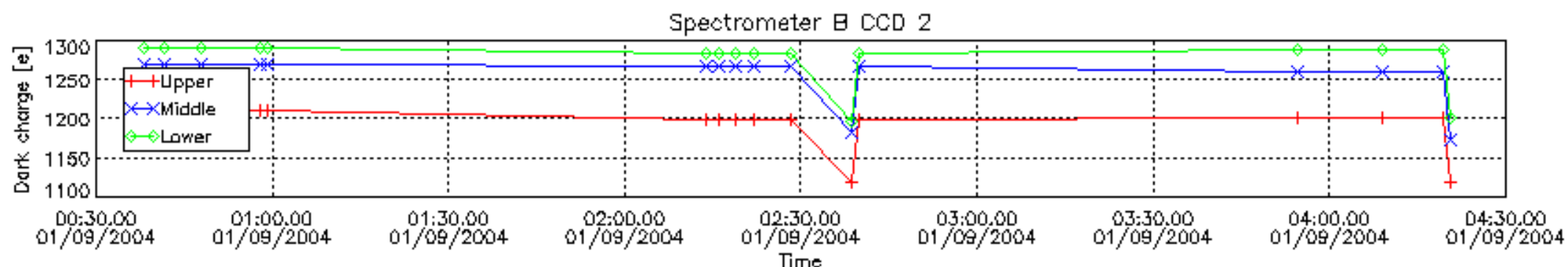
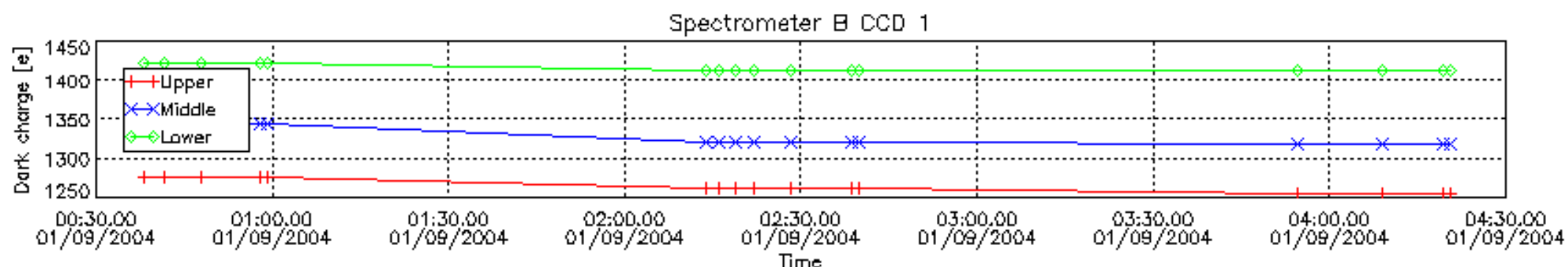
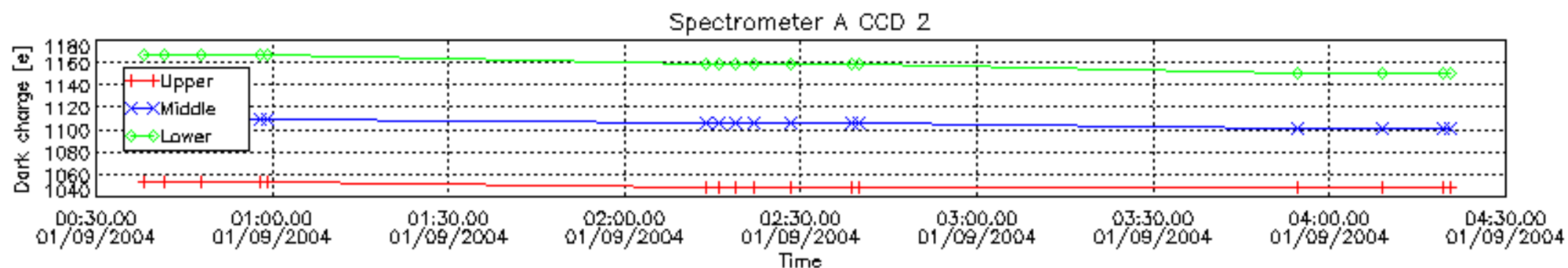
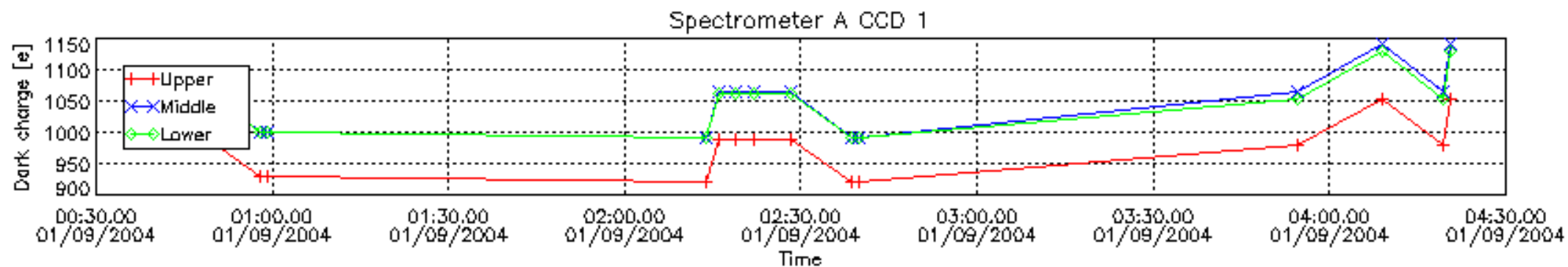


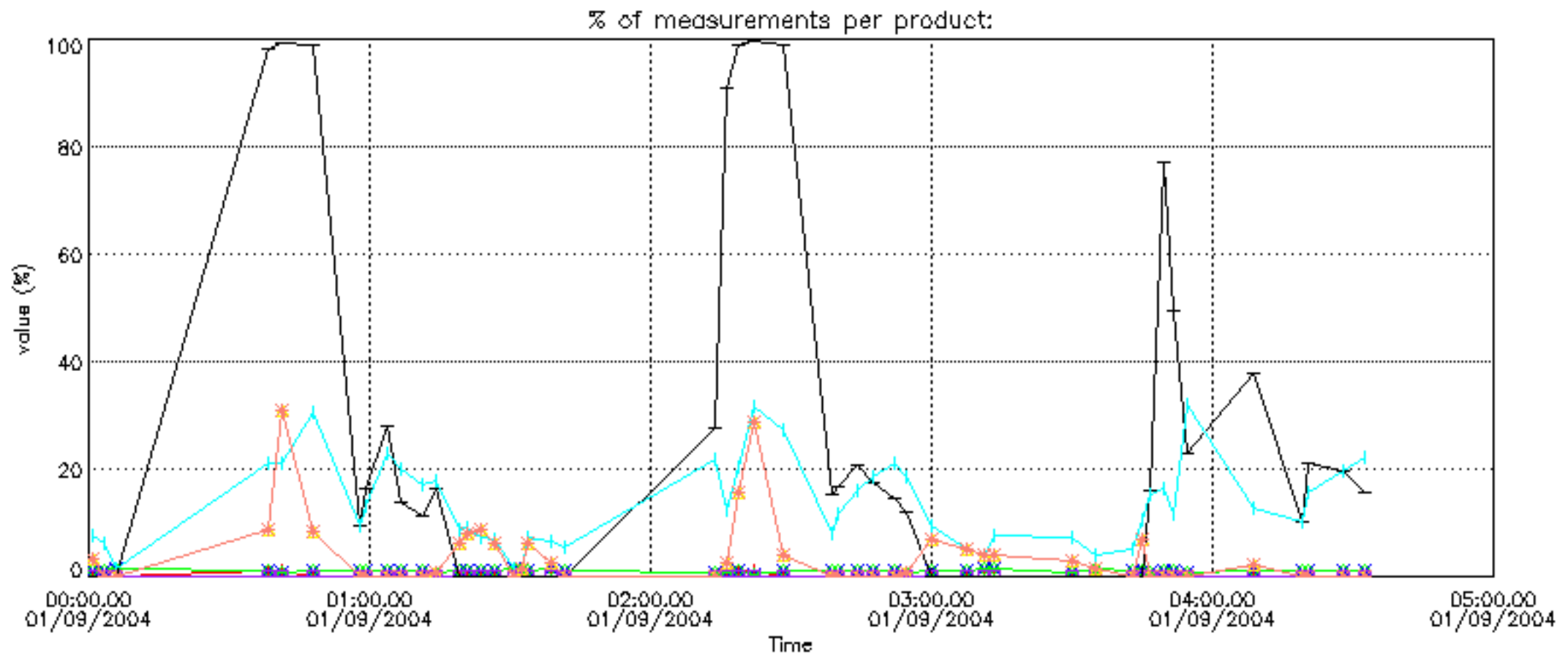
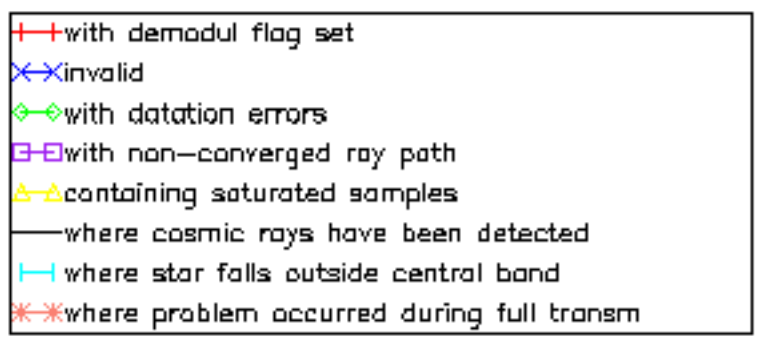
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

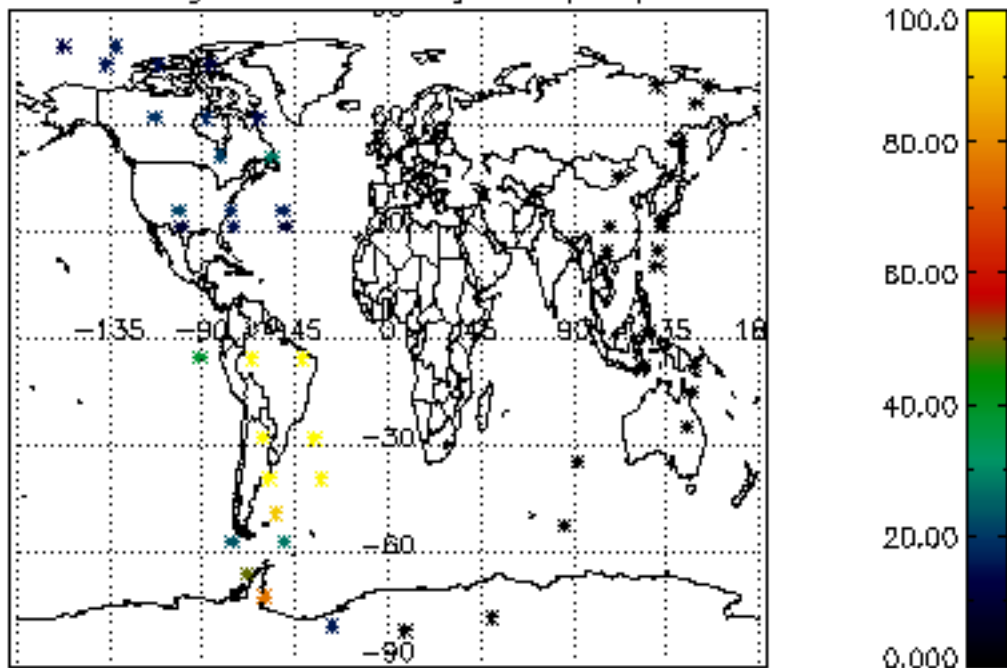
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.3	1447.9	1462.2	1447.8
St. deviation:	3.0937	4.2764	6.2630	6.8309
Maximum:	1493.0	1472.0	1509.0	1506.0
Minimum:	1457.0	1430.0	1454.0	1428.0
Number of data:	22500.	22500.	30600.	30600.



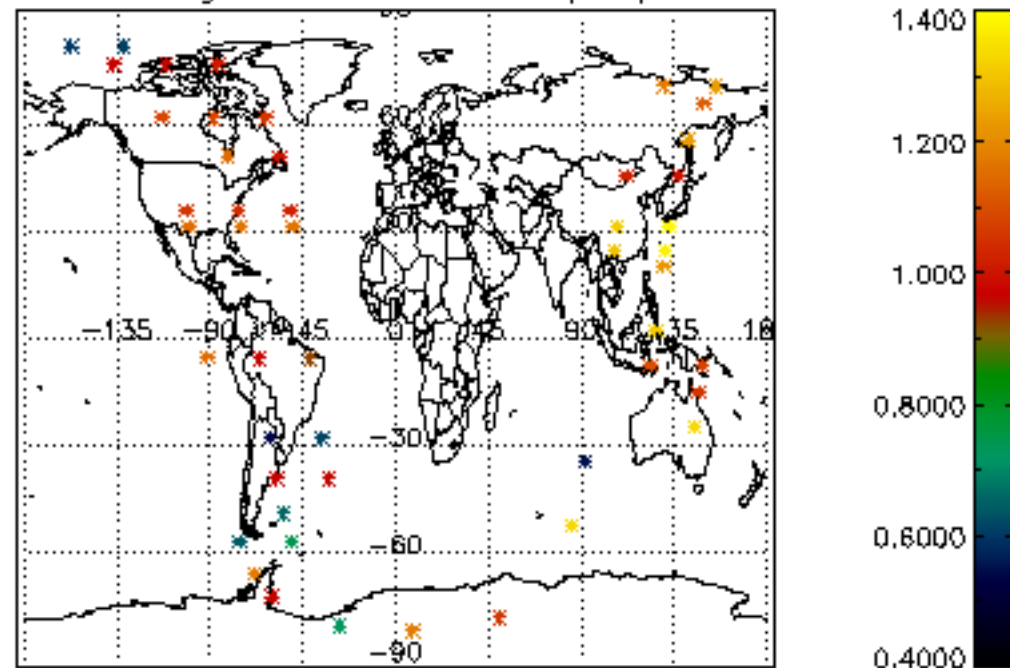




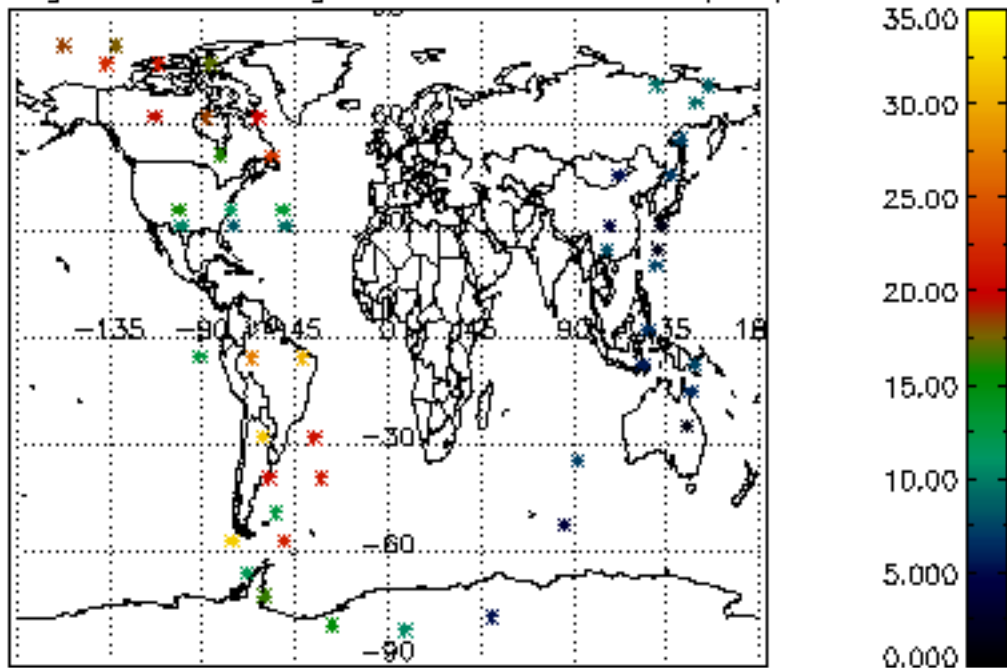
Percentage of cosmic ray hits per profile



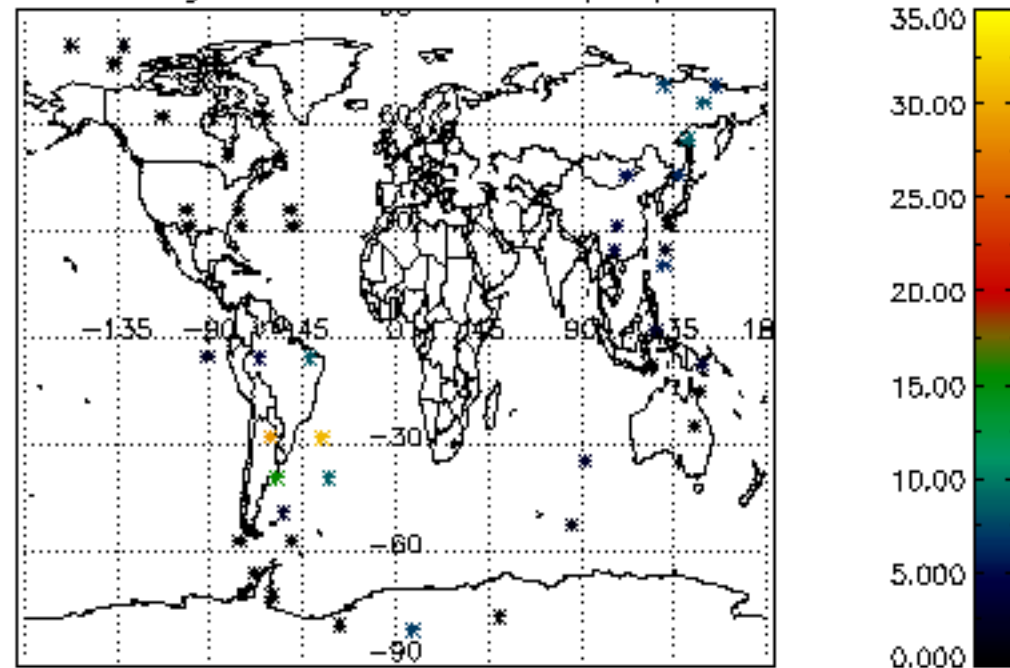
Percentage of datation errors per profile



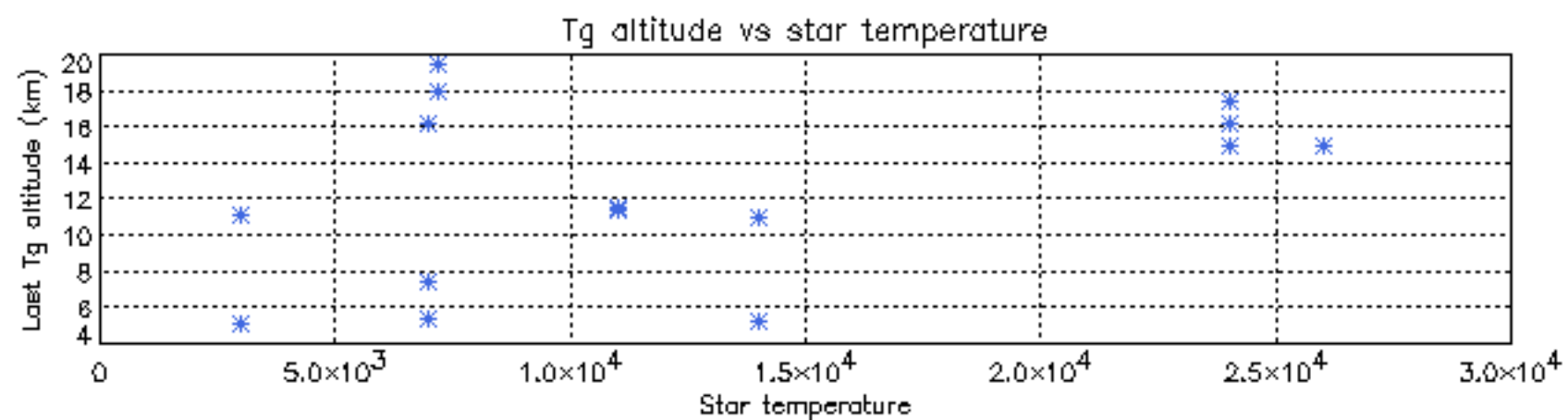
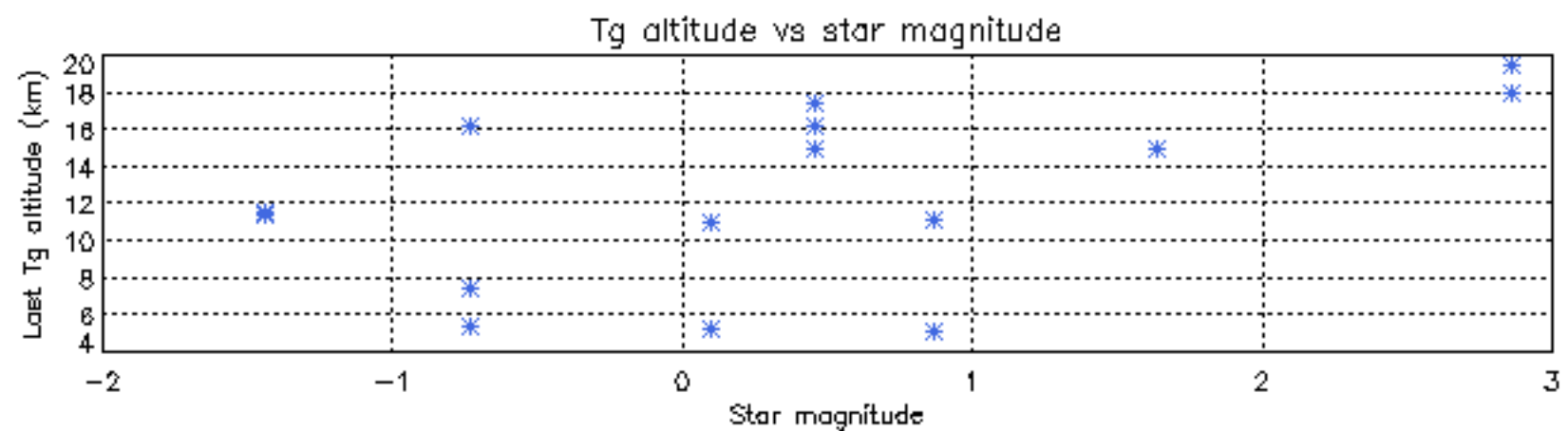
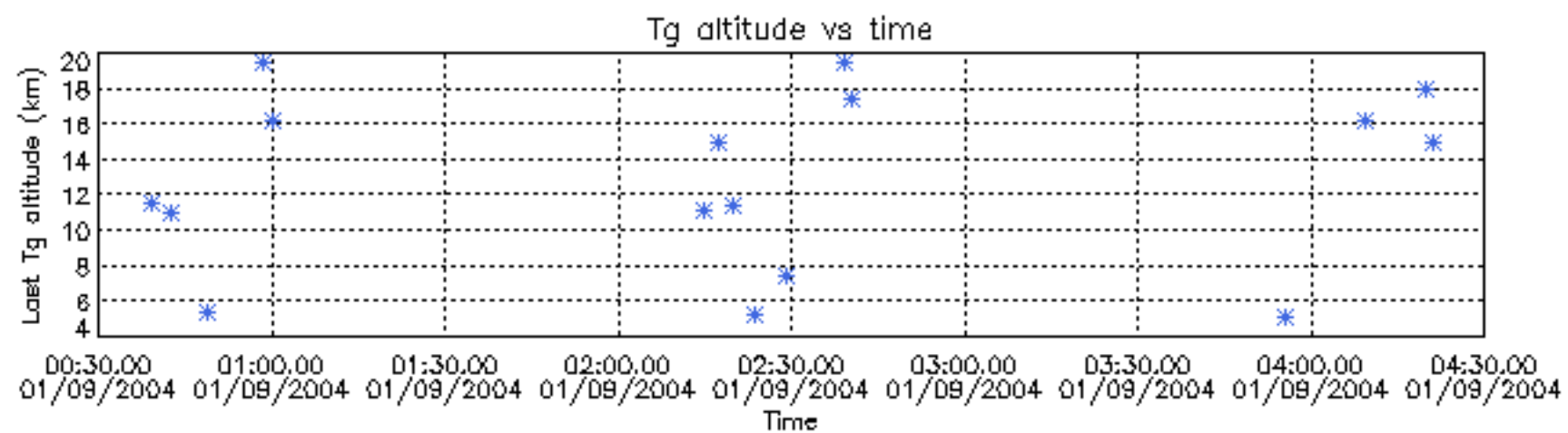
Percentage of star falling outside central band per profile



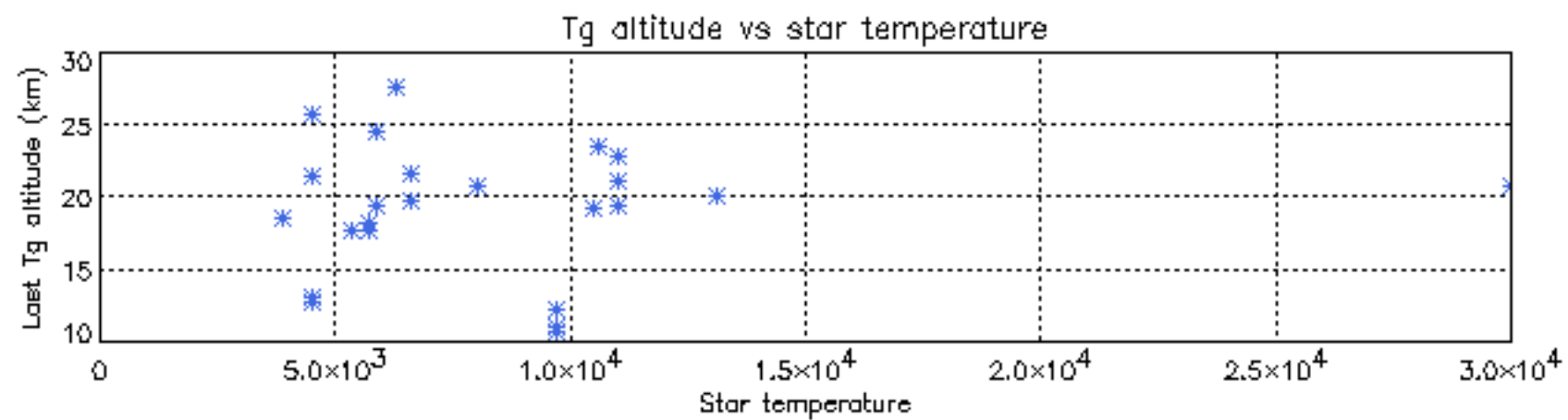
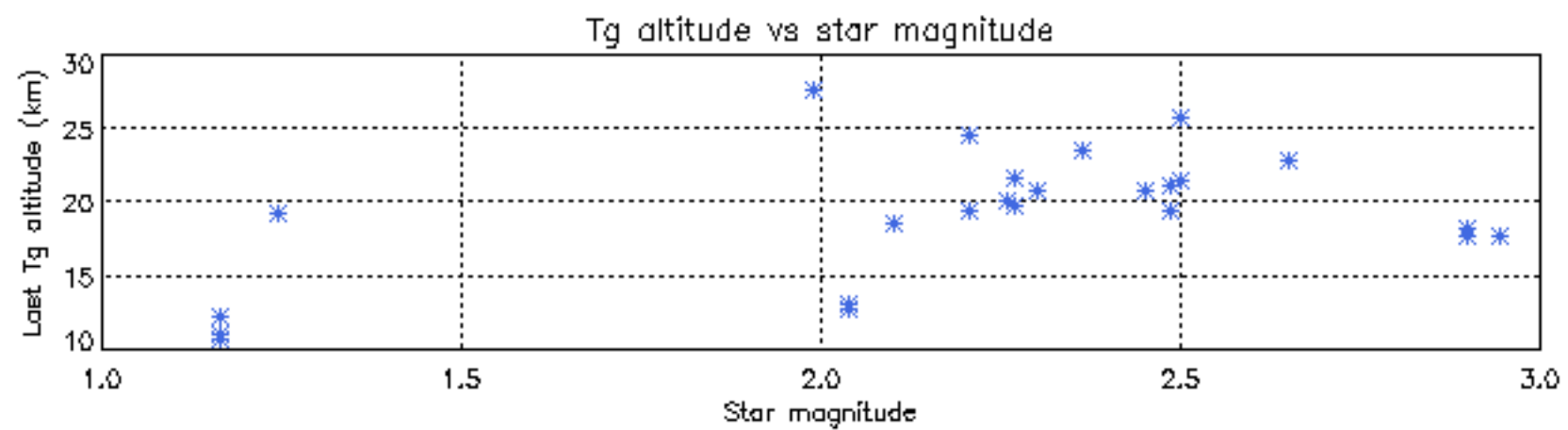
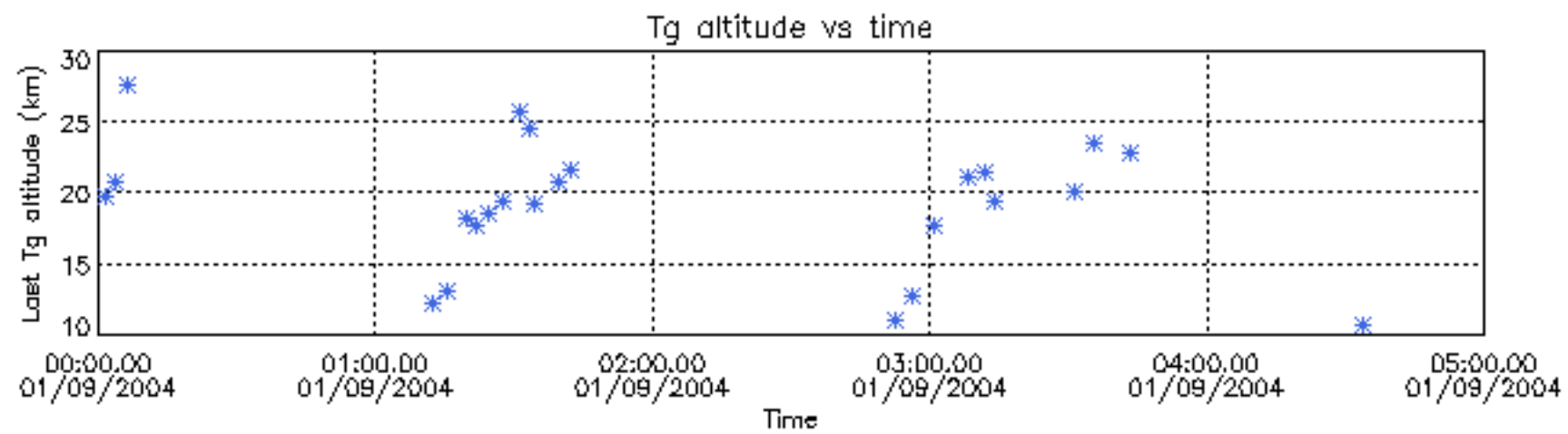
Percentage of saturation errors per profile



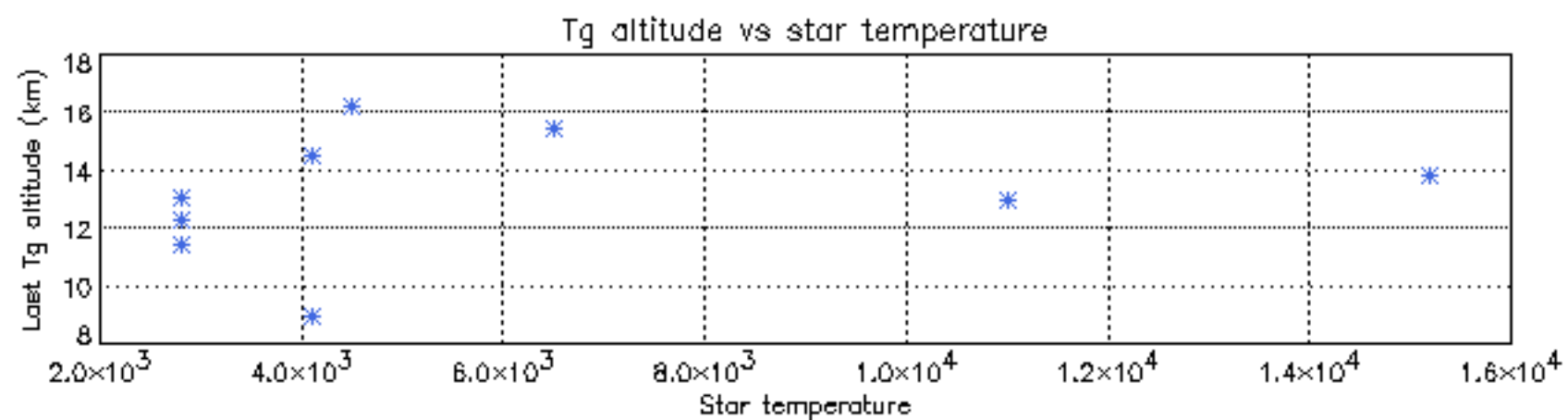
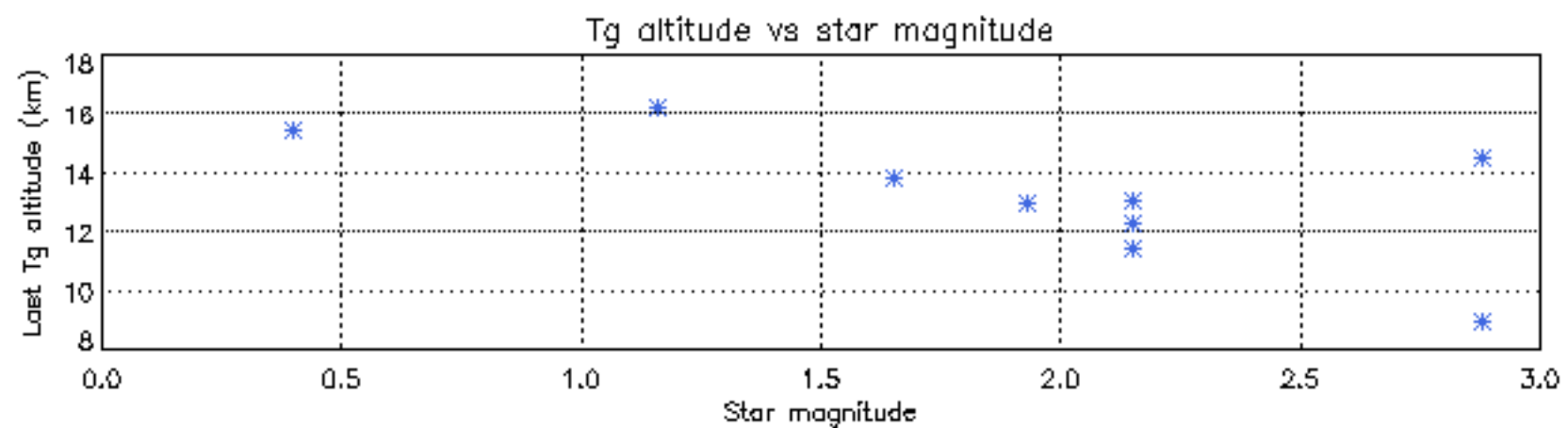
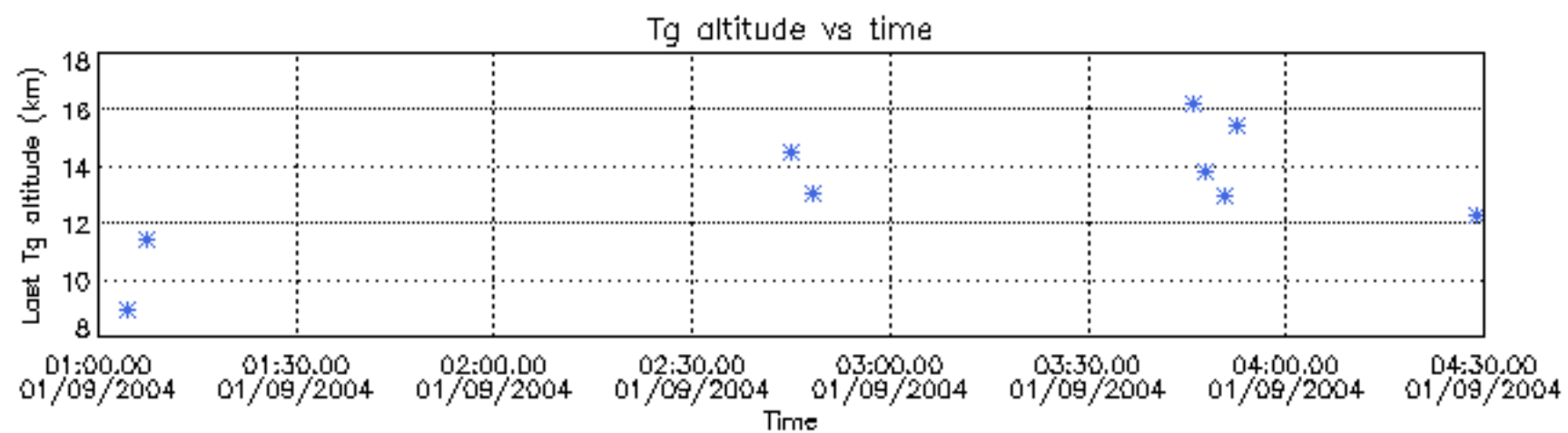
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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 6; 527.2; 01-SEP-2004 00:58:03; Dark ; 43.0; 143; Alp Hyi ; 2.86; 7200;occ; 86; 0;13097
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 23; 3190.5; 09-SEP-2004 00:50:42; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;13211
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13; 54.9; 19-SEP-2004 08:07:02; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;13359
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9;	-3061.5;	19-SEP-2004	08:55:41;	Bright;	;	37.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	75;	0;	13359
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13;	-2378.8;	19-SEP-2004	09:07:04;	Bright;	;	71.0;	175;	39Del	Per	;	3.01;	19400;	occ;	142;	0;	13359
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5;	-3638.0;	19-SEP-2004	12:07:16;	Bright;	;	39.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	79;	0;	13361
6;	-3496.0;	19-SEP-2004	12:09:38;	Bright;	;	37.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	75;	0;	13361
7;	-3368.1;	19-SEP-2004	12:11:46;	Bright;	;	42.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	84;	0;	13361
8;	-3232.5;	19-SEP-2004	12:14:02;	Bright;	;	60.0;	53;	43Bet	And	;	2.05;	3300;	occ;	120;	0;	13361
9;	-3062.6;	19-SEP-2004	12:16:52;	Bright;	;	38.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	77;	0;	13361
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11;	-2493.9;	19-SEP-2004	12:26:20;	Bright;	;	72.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	144;	0;	13361
12;	-2380.9;	19-SEP-2004	12:28:13;	Bright;	;	66.5;	175;	39Del	Per	;	3.01;	19400;	occ;	133;	0;	13361
13;	-2155.8;	19-SEP-2004	12:31:58;	Bright;	;	37.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	74;	0;	13361
14;	-2068.5;	19-SEP-2004	12:33:26;	Bright;	;	46.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	92;	0;	13361
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16;	-1668.5;	19-SEP-2004	12:40:06;	Bright;	;	68.5;	107;	37The	Aur	;	2.65;	11000;	occ;	137;	0;	13361
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
19;	-1002.5;	19-SEP-2004	12:51:12;	Dark	;	58.0;	8;	10Alp	CMi	;	0.40;	6500;	occ;	116;	0;	13361
20;	-560.2;	19-SEP-2004	12:58:34;	Dark	;	44.5;	132;	15Rho	Pup	;	2.80;	6900;	occ;	89;	0;	13361
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22;	-256.7;	19-SEP-2004	13:03:38;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13361
23;	-146.7;	19-SEP-2004	13:05:28;	Dark	;	42.0;	46;	Del	Vel	;	1.95;	10600;	occ;	84;	0;	13361
24;	-52.5;	19-SEP-2004	13:07:02;	Dark	;	50.0;	41;	Eps	Car	;	1.86;	4100;	occ;	100;	0;	13361
25;	50.5;	19-SEP-2004	13:08:45;	Dark	;	89.5;	101;	11Alp	Lep	;	2.58;	7000;	occ;	179;	0;	13362
26;	366.7;	19-SEP-2004	13:14:01;	Dark	;	230.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	460;	0;	13362
27;	662.3;	19-SEP-2004	13:18:57;	Dark	;	41.0;	143;	Alp	Hyi	;	2.86;	7200;	occ;	82;	0;	13362
28;	748.1;	19-SEP-2004	13:20:22;	Dark	;	55.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	110;	0;	13362
29;	910.2;	19-SEP-2004	13:23:04;	Dark	;	37.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	75;	0;	13362
30;	1115.3;	19-SEP-2004	13:26:30;	Dark	;	46.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	93;	0;	13362
31;	1302.8;	19-SEP-2004	13:29:37;	Dark	;	38.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	76;	0;	13362

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20;-1238.7; 30-SEP-2004 20:24:17; Dark ; 100.0; 170; 27Eps Gem ; 3.00; 9700;occ; 200; 0;13523
21;-872.0; 30-SEP-2004 20:30:24; Dark ; 85.0; 8; 10Alp CMi ; 0.40; 6500;occ; 170; 0;13523
22;-449.5; 30-SEP-2004 20:37:26; Dark ; 50.5; 132; 15Rho Pup ; 2.80; 6900;occ; 101; 0;13523
23;-295.1; 30-SEP-2004 20:40:01; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;13523
24;-203.5; 30-SEP-2004 20:41:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13523
25;-97.4; 30-SEP-2004 20:43:19; Dark ; 42.0; 46; De1 Vel ; 1.95; 10600;occ; 84; 0;13523
26; 306.1; 30-SEP-2004 20:50:02; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;13524
27; 602.6; 30-SEP-2004 20:54:58; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13524
28; 731.1; 30-SEP-2004 20:57:07; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13524
29; 816.0; 30-SEP-2004 20:58:32; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;13524
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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