

GOMOS Daily Report 13-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	17SEP2004 09:47:38
Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-4D (13SEP2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-4D (14SEP2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	26
Nb of prods with errors	0

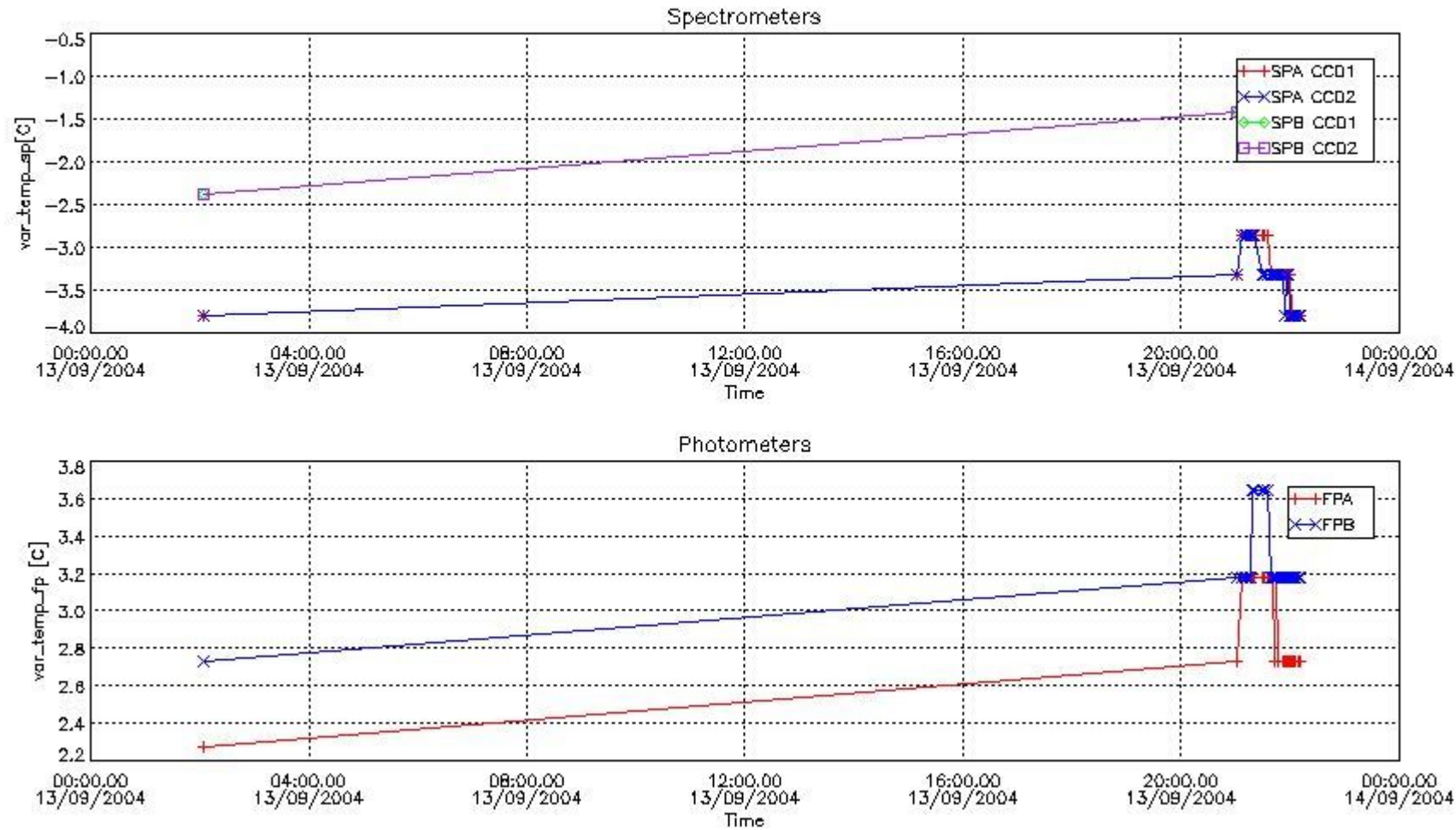
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040913_020327_000000482030_00189_13269_0021.N1	13-SEP-2004 02:03:27	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	13269	No
GOM_TRA_1PNPDE20040913_210158_000000582030_00200_13280_0001.N1	13-SEP-2004 21:01:58	Twilight	58.000	8	10Alp CMi	0.40000	6500.0	116	13280	No
GOM_TRA_1PNPDE20040913_210707_000001282030_00200_13280_0002.N1	13-SEP-2004 21:07:07	Dark	128.00	14	58Alp Ori	0.87000	3000.0	256	13280	No
GOM_TRA_1PNPDE20040913_211051_000000622030_00200_13280_0003.N1	13-SEP-2004 21:10:51	Dark	61.500	1	9Alp CMa	-1.4400	11000.	123	13280	No
GOM_TRA_1PNPDE20040913_211240_000000602030_00200_13280_0004.N1	13-SEP-2004 21:12:40	Dark	59.500	47	2Bet CMa	1.9760	28000.	119	13280	No
GOM_TRA_1PNPDE20040913_211644_000000462030_00200_13280_0005.N1	13-SEP-2004 21:16:44	Dark	45.500	46	Del Vel	1.9540	10600.	91	13280	No
GOM_TRA_1PNPDE20040913_211812_000000452030_00200_13280_0006.N1	13-SEP-2004 21:18:12	Dark	44.500	161	Tau Pup	2.9310	4500.0	89	13280	No
GOM_TRA_1PNPDE20040913_211931_000000562030_00201_13281_0007.N1	13-SEP-2004 21:19:31	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	13281	No
GOM_TRA_1PNPDE20040913_212852_000000392030_00201_13281_0008.N1	13-SEP-2004 21:28:52	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13281	No
GOM_TRA_1PNPDE20040913_213114_000000552030_00201_13281_0009.N1	13-SEP-2004 21:31:14	Dark	55.000	9	Alp Eri	0.45300	24000.	110	13281	No
GOM_TRA_1PNPDE20040913_213425_000000422030_00201_13281_0010.N1	13-SEP-2004 21:34:25	Dark	41.500	148	Alp Tuc	2.8780	4100.0	83	13281	No
GOM_TRA_1PNPDE20040913_213808_000000422030_00201_13281_0011.N1	13-SEP-2004 21:38:08	Twilight	41.500	31	Alp Gru	1.7340	15200.	83	13281	No
GOM_TRA_1PNPDE20040913_214055_000000392030_00201_13281_0012.N1	13-SEP-2004 21:40:55	Bright	39.000	172	Gam Gru	3.0030	13100.	78	13281	No
GOM_TRA_1PNPDE20040913_214219_000000452030_00201_13281_0013.N1	13-SEP-2004 21:42:19	Bright	44.500	18	24Alp PsA	1.1660	9700.0	89	13281	No
GOM_TRA_1PNPDE20040913_214447_000000682030_00201_13281_0014.N1	13-SEP-2004 21:44:47	Bright	68.000	52	16Bet Cet	2.0370	4500.0	136	13281	No
GOM_TRA_1PNPDE20040913_214651_000000422030_00201_13281_0015.N1	13-SEP-2004 21:46:51	Bright	41.500	142	49Del Cap	2.8500	8900.0	83	13281	No
GOM_TRA_1PNPDE20040913_215106_000000412030_00201_13281_0016.N1	13-SEP-2004 21:51:06	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	13281	No
GOM_TRA_1PNPDE20040913_215405_000000412030_00201_13281_0017.N1	13-SEP-2004 21:54:05	Bright	41.000	61	8Eps Peg	2.1000	3900.0	82	13281	No
GOM_TRA_1PNPDE20040913_215546_000000442030_00201_13281_0018.N1	13-SEP-2004 21:55:46	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	13281	No
GOM_TRA_1PNPDE20040913_215730_000000542030_00201_13281_0019.N1	13-SEP-2004 21:57:30	Bright	53.500	140	88Gam Peg	2.8340	26000.	107	13281	No
GOM_TRA_1PNPDE20040913_215942_000000422030_00201_13281_0020.N1	13-SEP-2004 21:59:42	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	13281	No
GOM_TRA_1PNPDE20040913_220120_000000412030_00201_13281_0021.N1	13-SEP-2004 22:01:20	Bright	40.500	92	53Eps Cyg	2.5000	4500.0	81	13281	No
GOM_TRA_1PNPDE20040913_220326_000000372030_00201_13281_0022.N1	13-SEP-2004 22:03:26	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	13281	No
GOM_TRA_1PNPDE20040913_220533_000000402030_00201_13281_0023.N1	13-SEP-2004 22:05:33	Bright	39.500	144	18Del Cyg	2.8600	11000.	79	13281	No
GOM_TRA_1PNPDE20040913_220854_000000402030_00201_13281_0024.N1	13-SEP-2004 22:08:54	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	13281	No
GOM_TRA_1PNPDE20040913_221032_000000442030_00201_13281_0025.N1	13-SEP-2004 22:10:32	Bright	44.000	68	18Alp Cas	2.2250	4500.0	88	13281	No

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



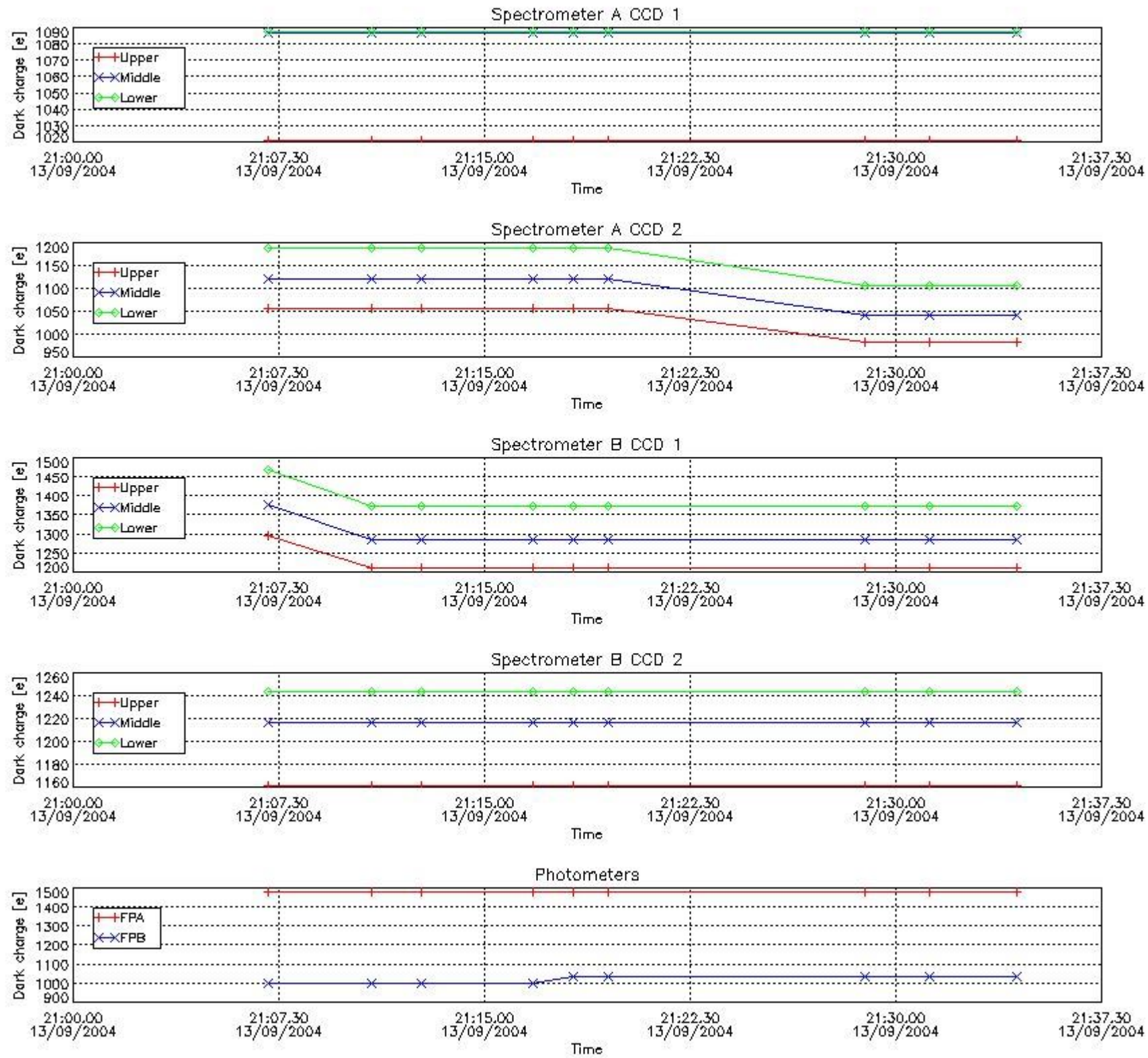
4. Overview of dark signal processing per product

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



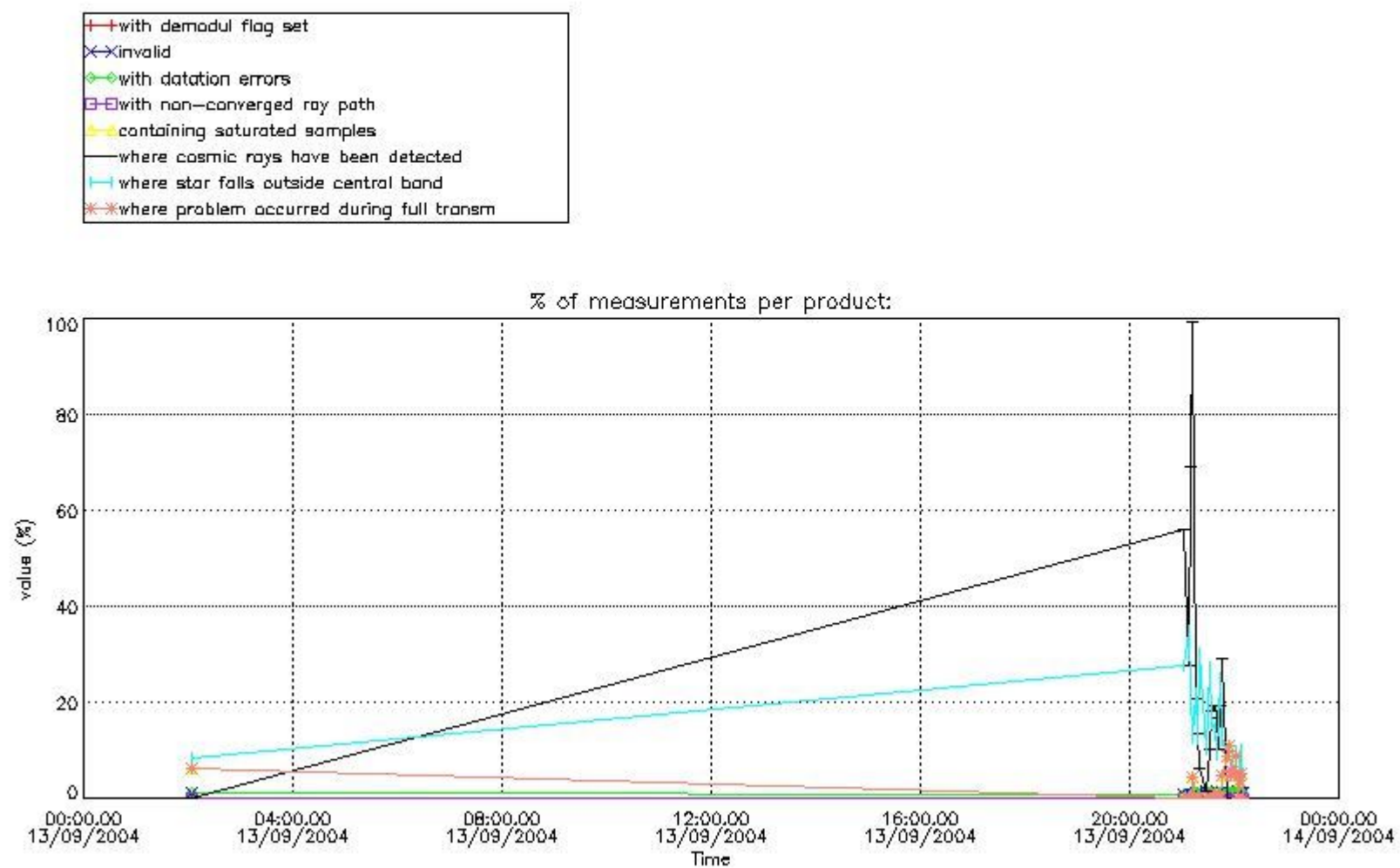
5. Demodulation flag and quality information monitoring

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.

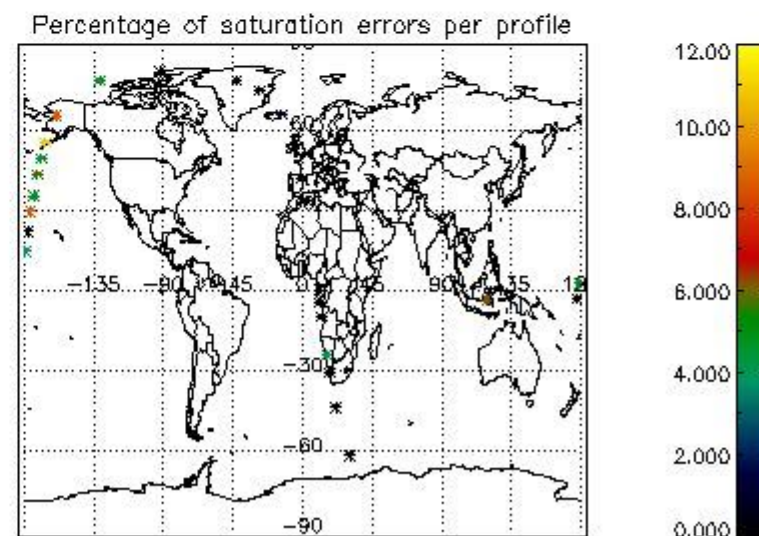
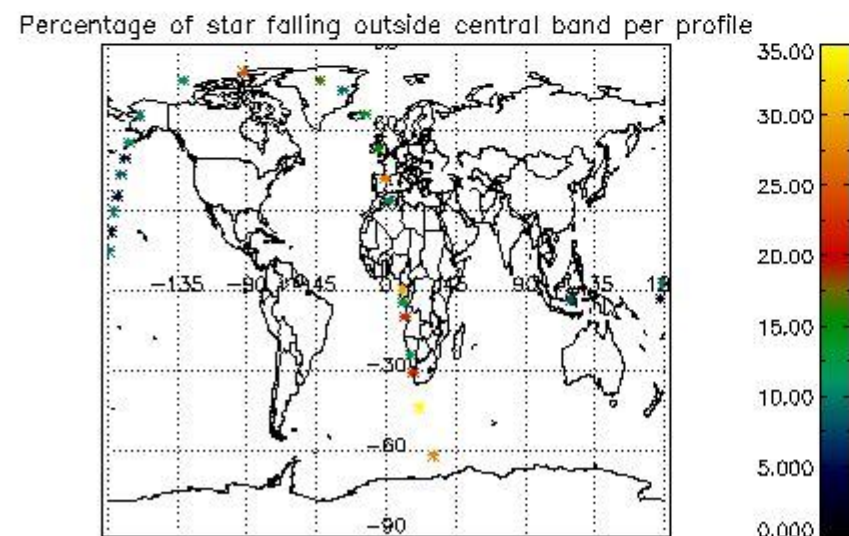
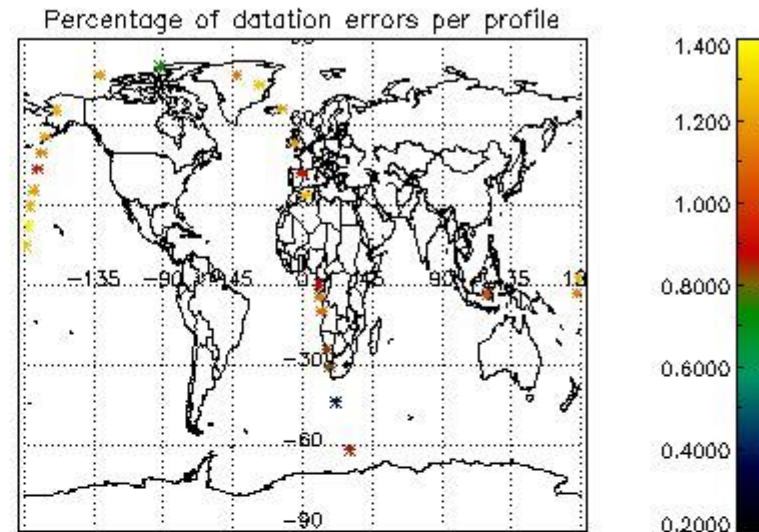
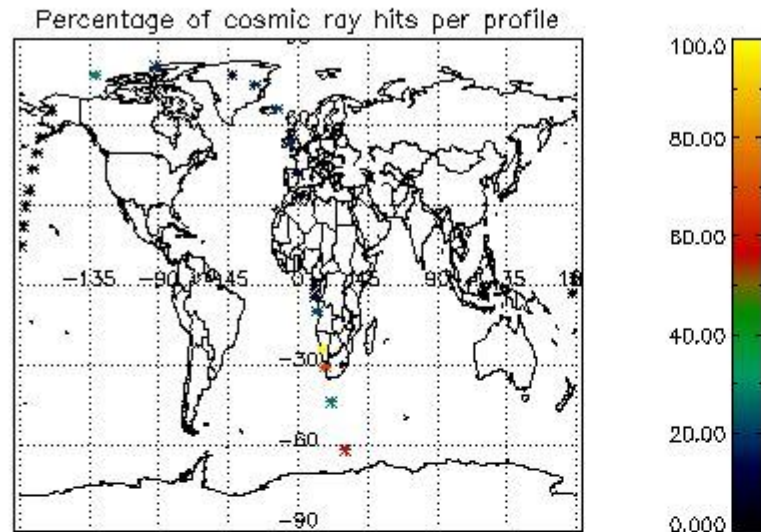
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	7.69231 %
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)



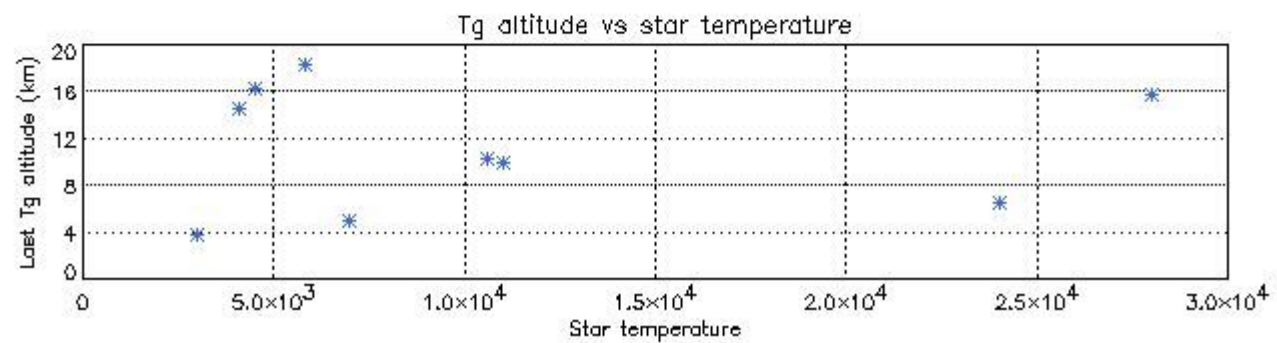
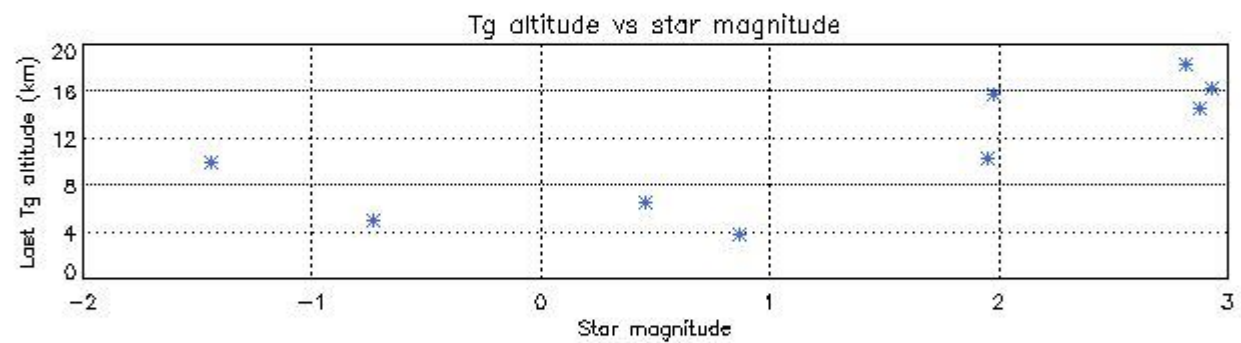
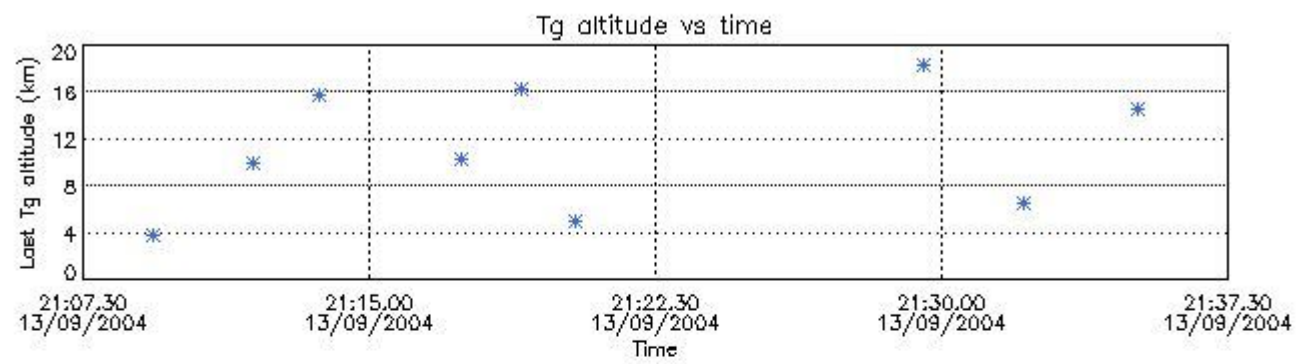
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.140	18.263	11.382
St. deviation:	5.3266	3.9887	5.5075
Maximum:	18.319	25.242	15.277
Minimum:	3.7419	9.0798	7.4877
Number of data:	9.0000	15.000	2.0000

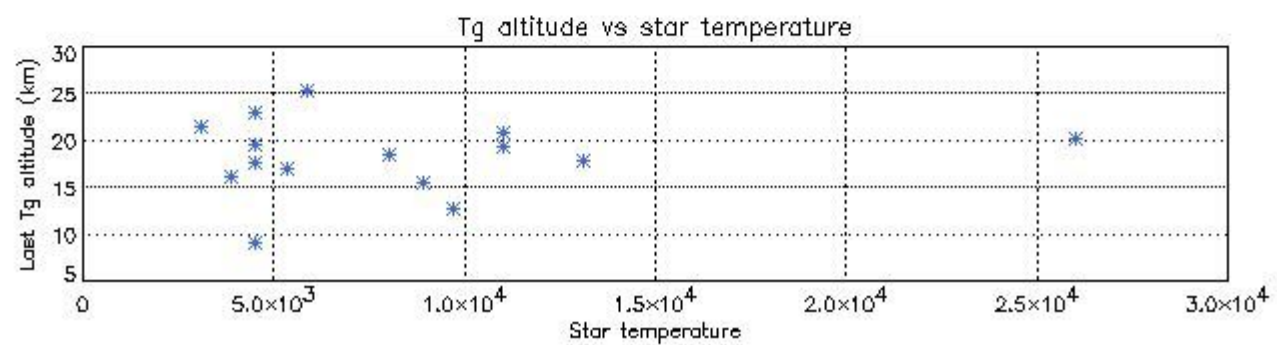
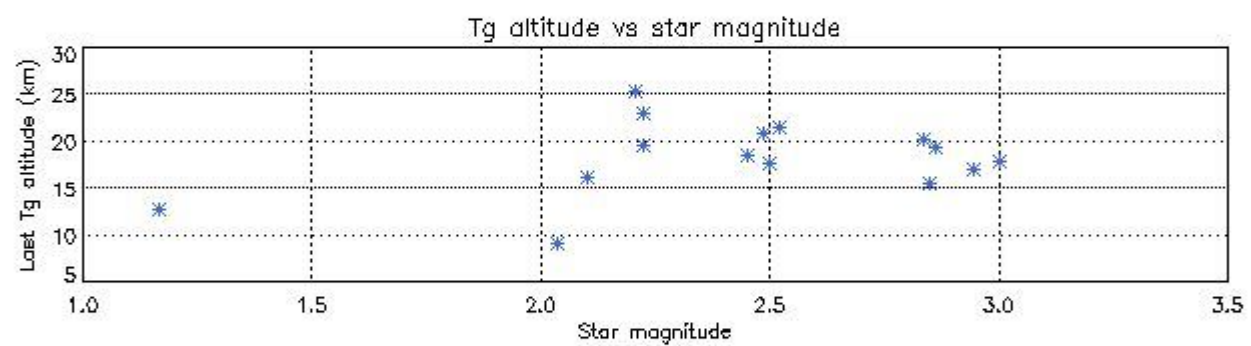
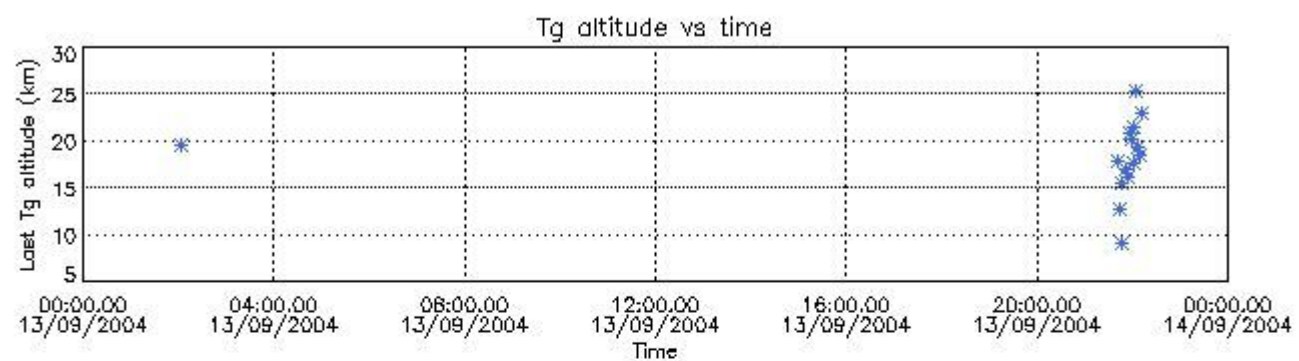
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



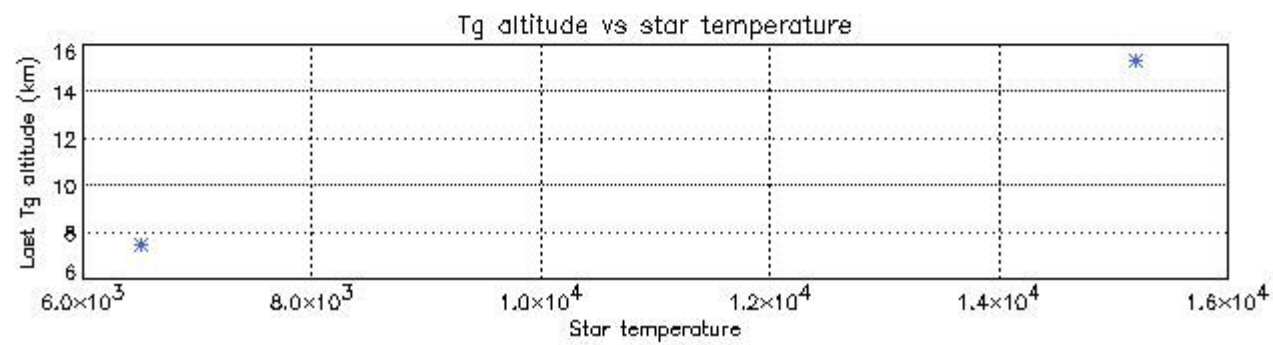
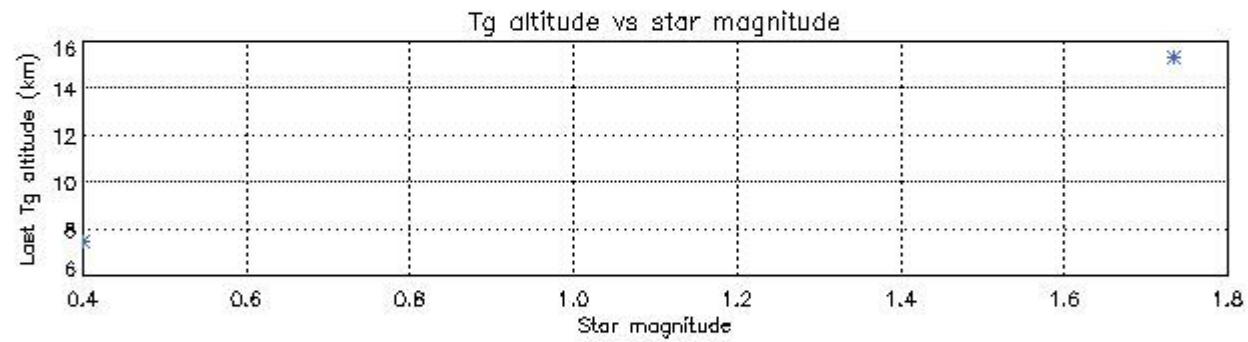
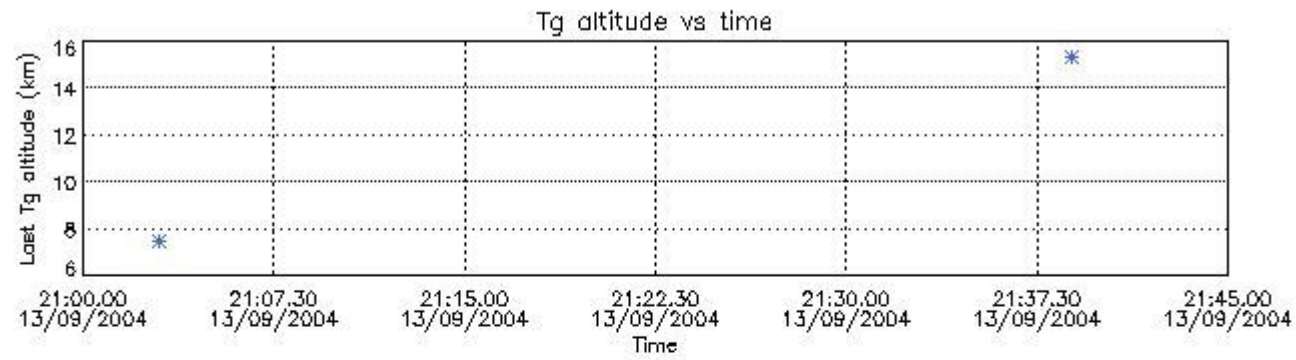
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

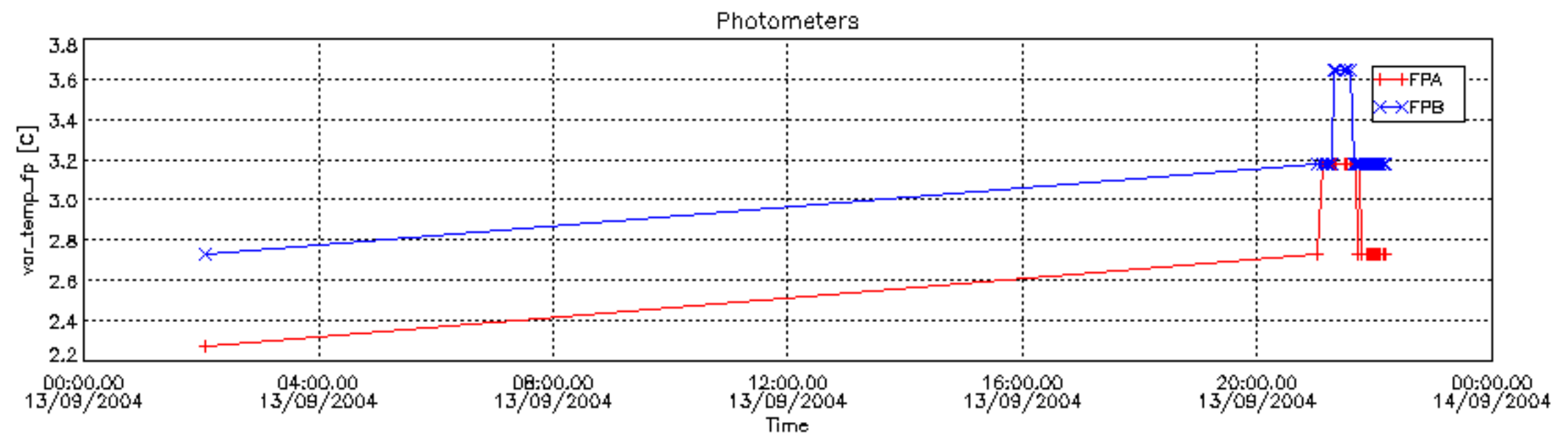
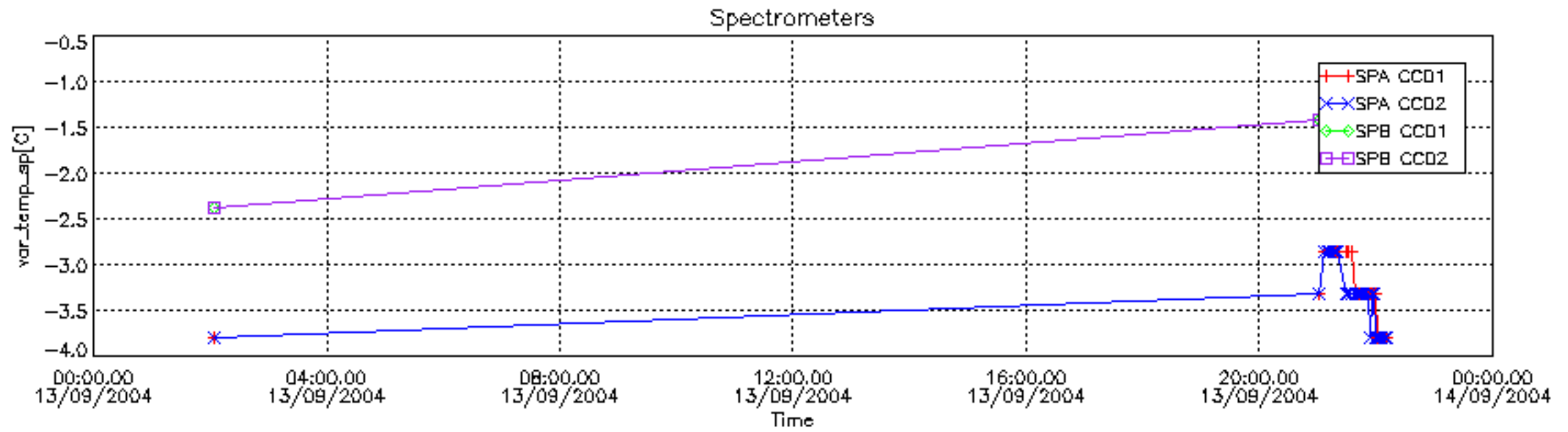
Tangent altitude at which the star is lost

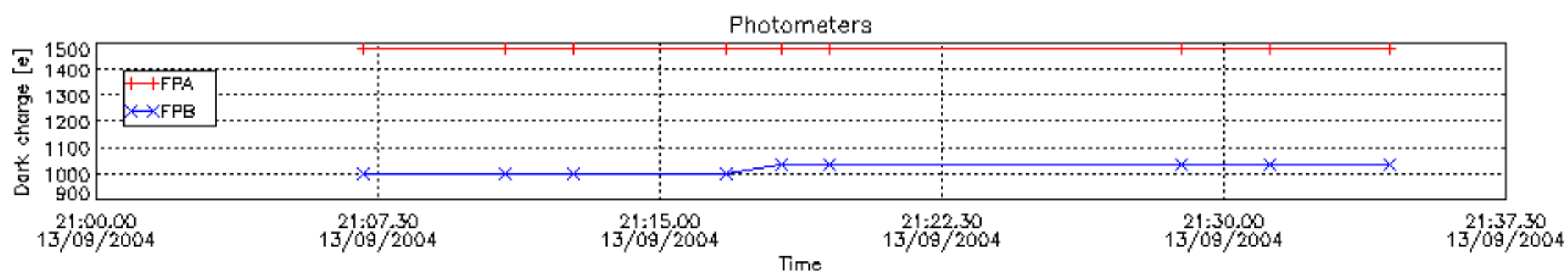
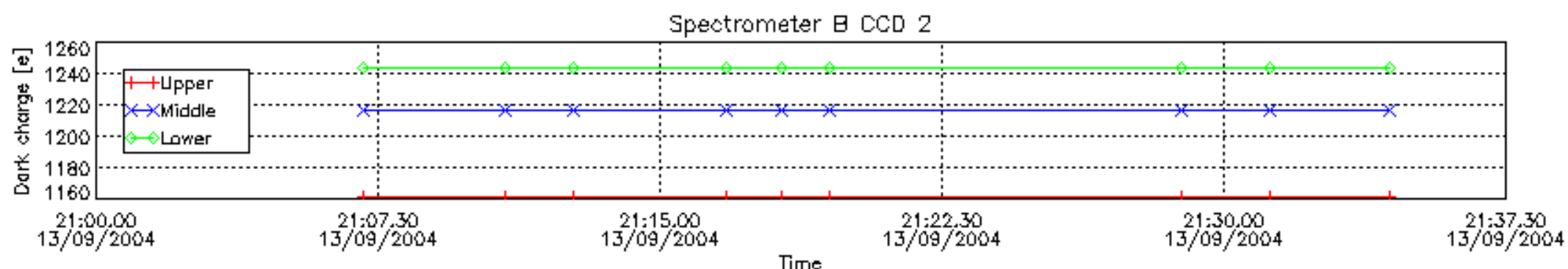
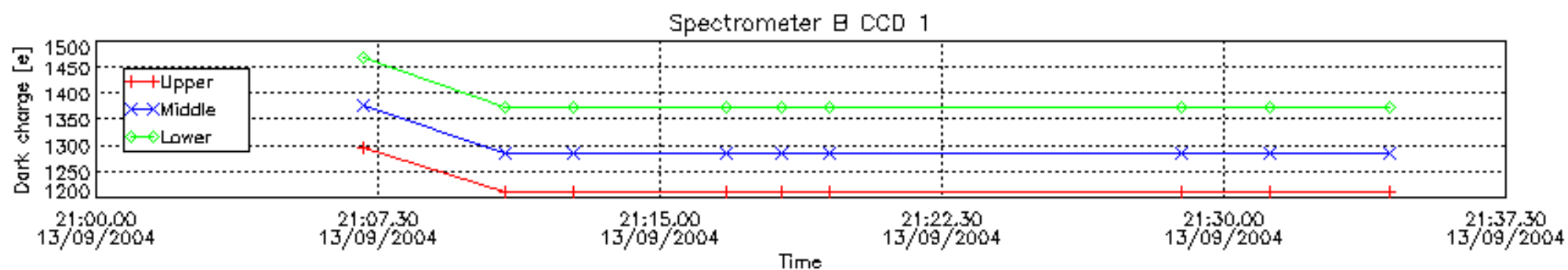
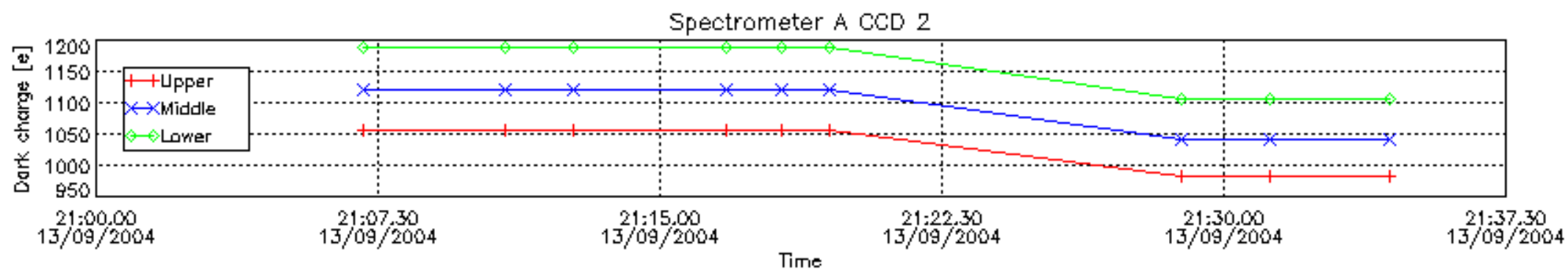
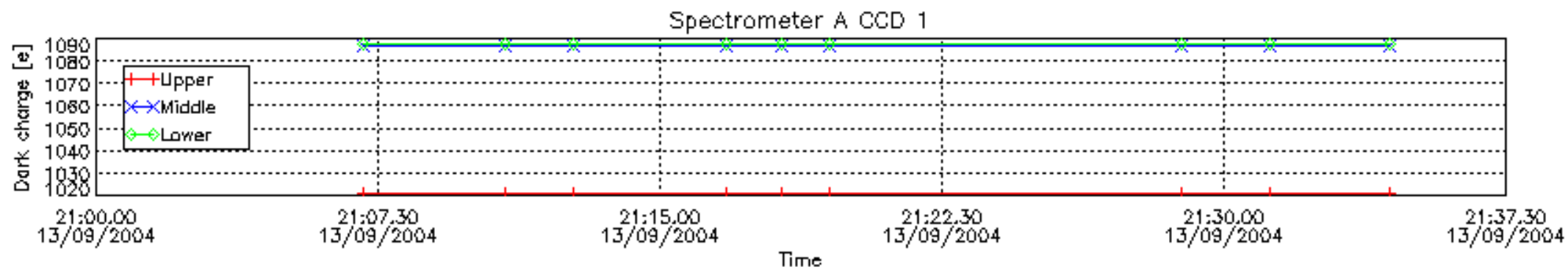


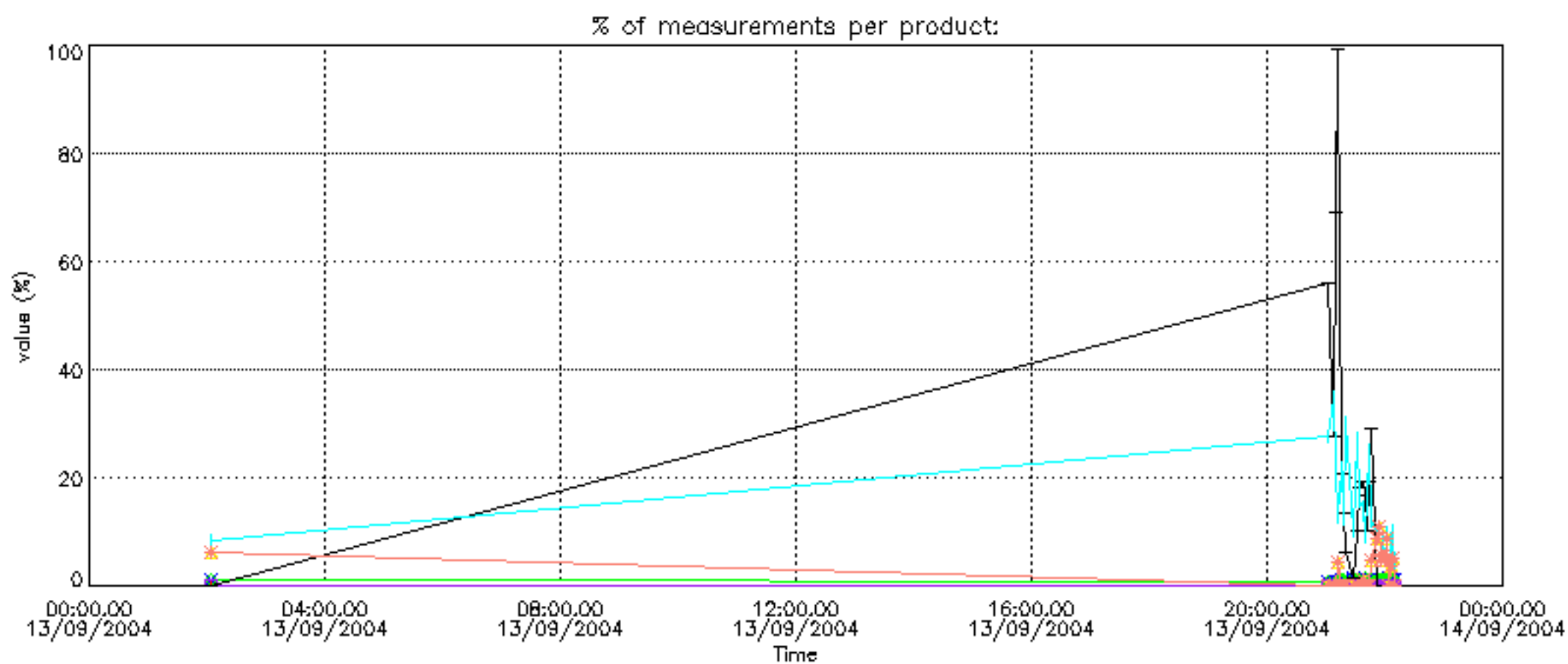
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

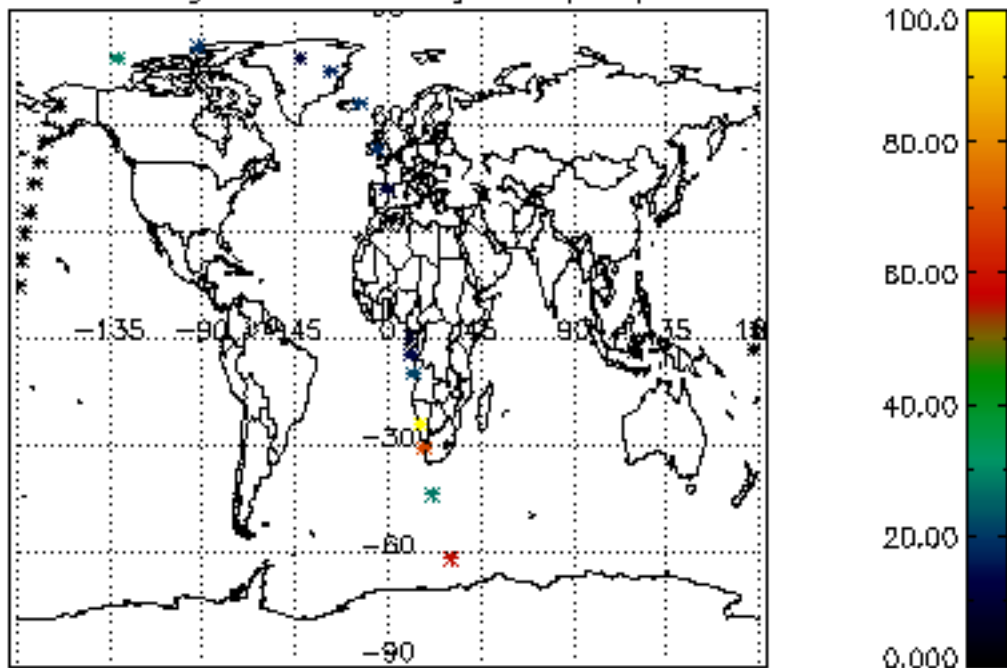
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.4	1447.6	1461.4	1447.3
St. deviation:	3.8086	4.9265	7.3533	8.2036
Maximum:	1486.0	1472.0	1520.0	1508.0
Minimum:	1444.0	1432.0	1446.0	1436.0
Number of data:	11950.	11950.	17450.	17450.



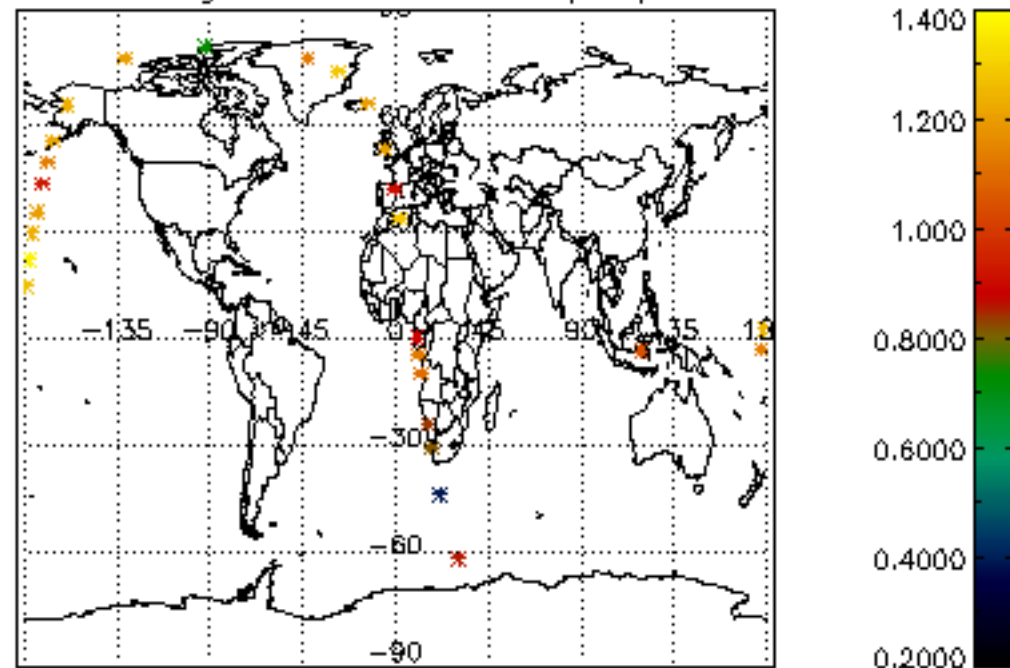




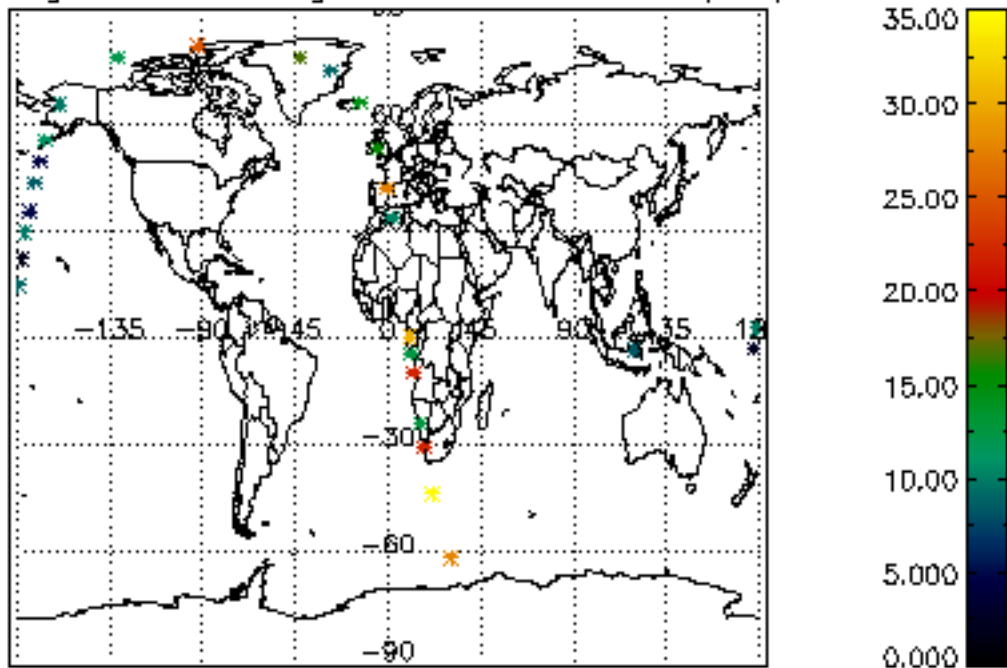
Percentage of cosmic ray hits per profile



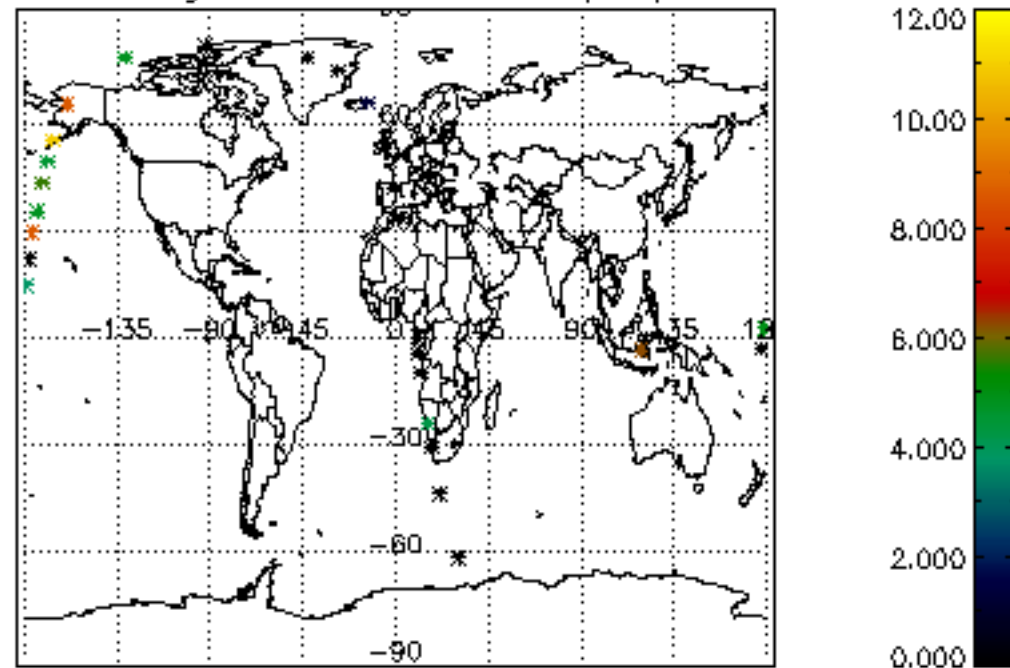
Percentage of datation errors per profile



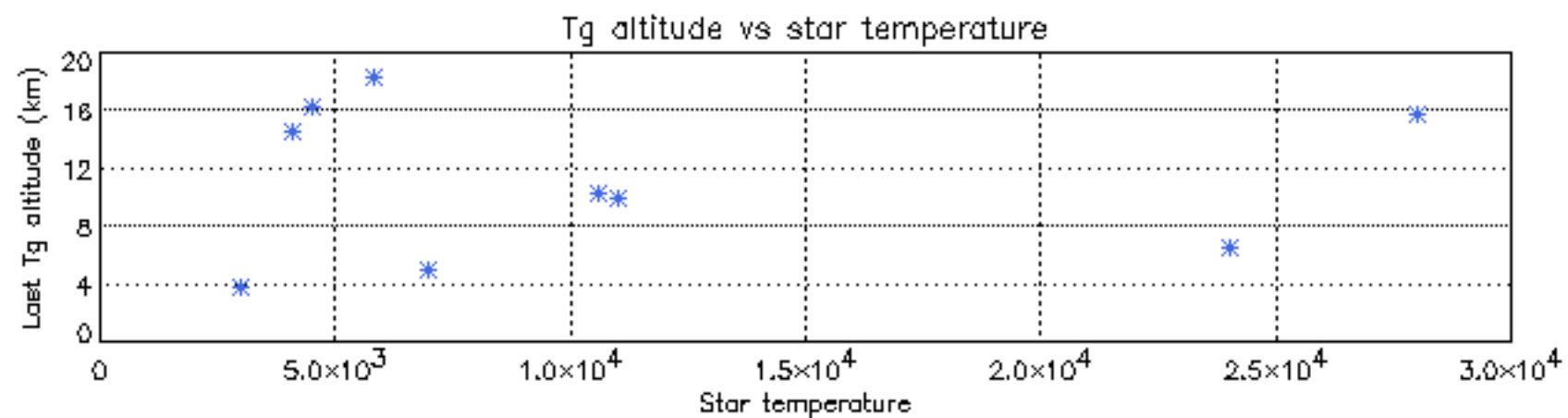
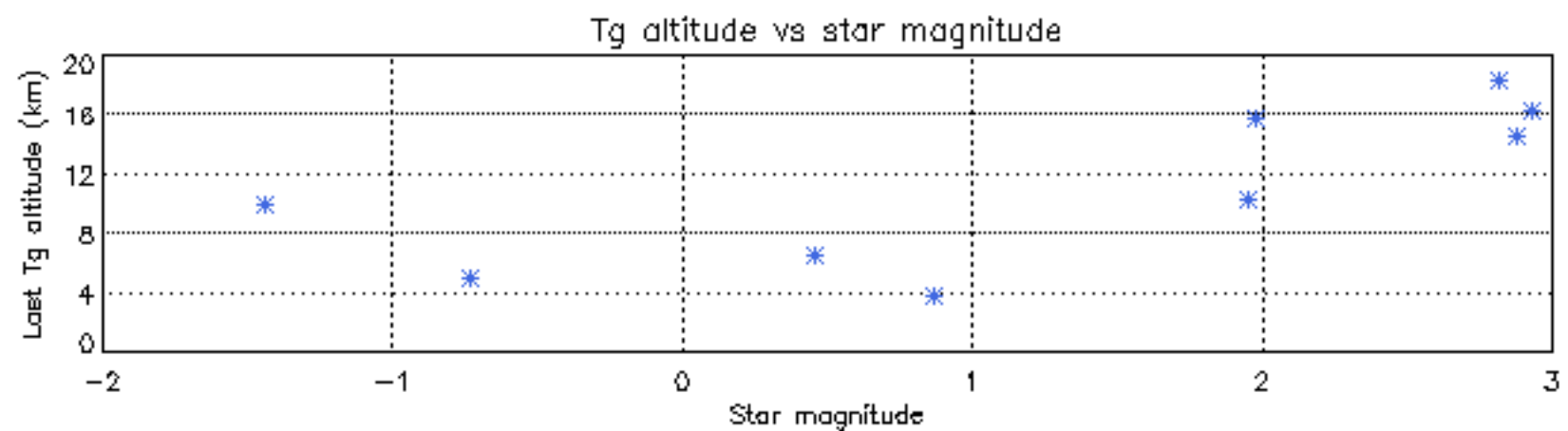
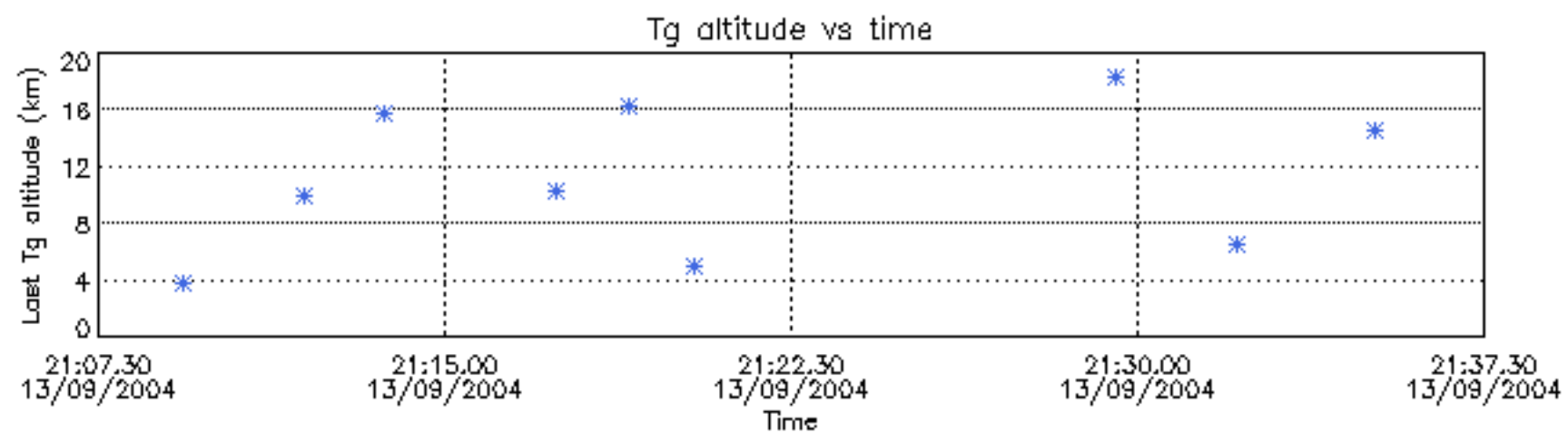
Percentage of star falling outside central band per profile



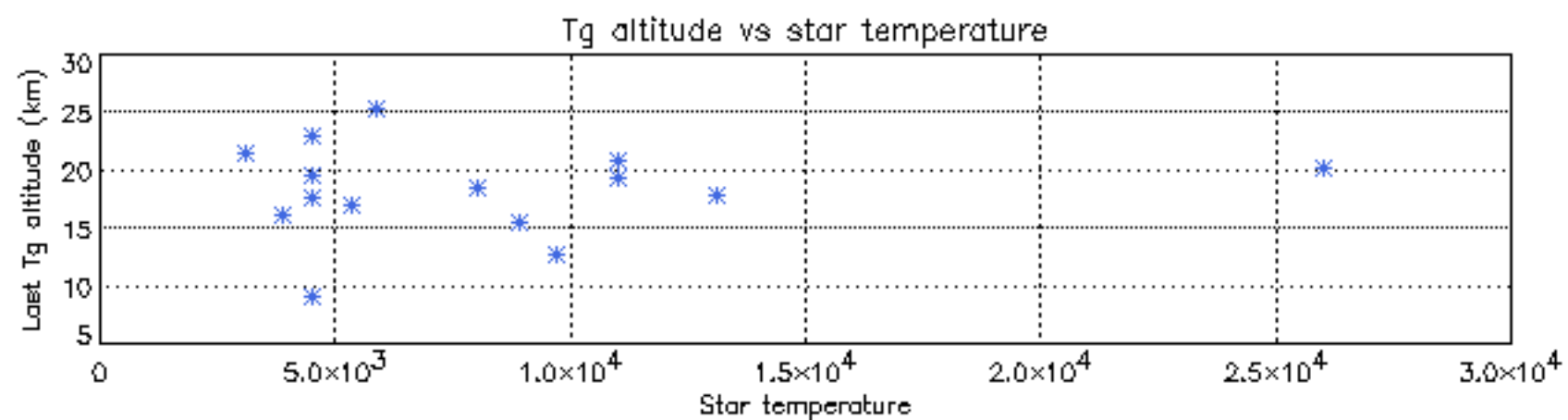
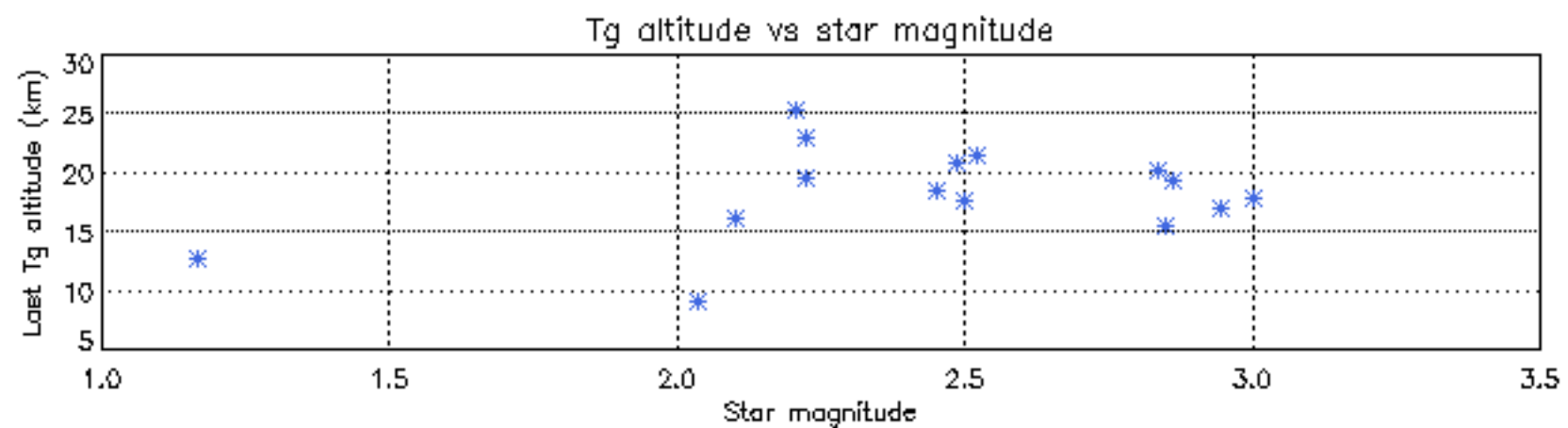
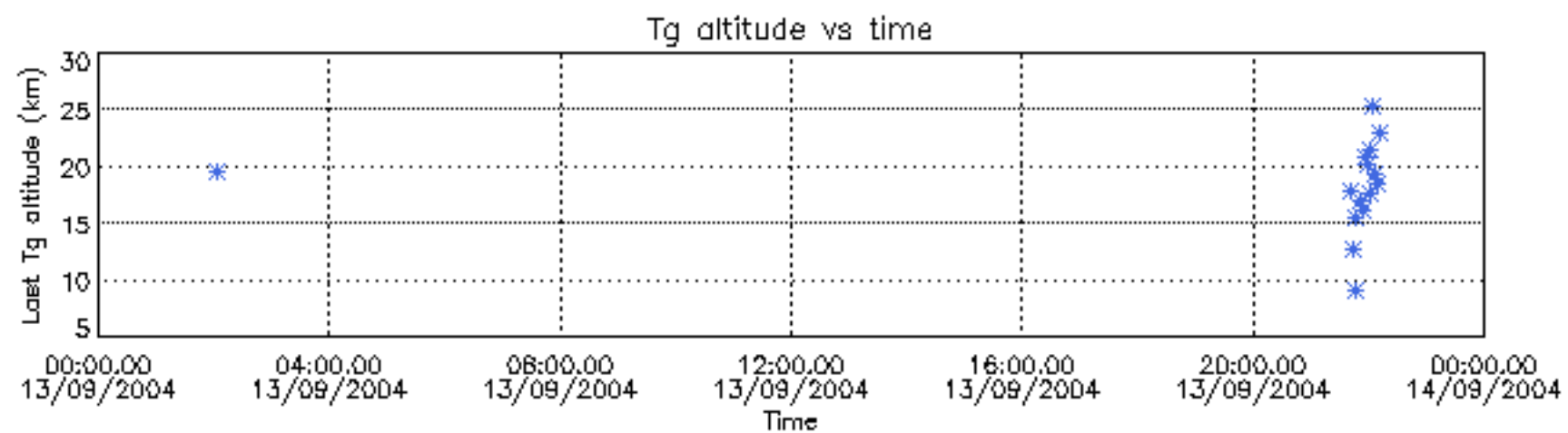
Percentage of saturation errors per profile



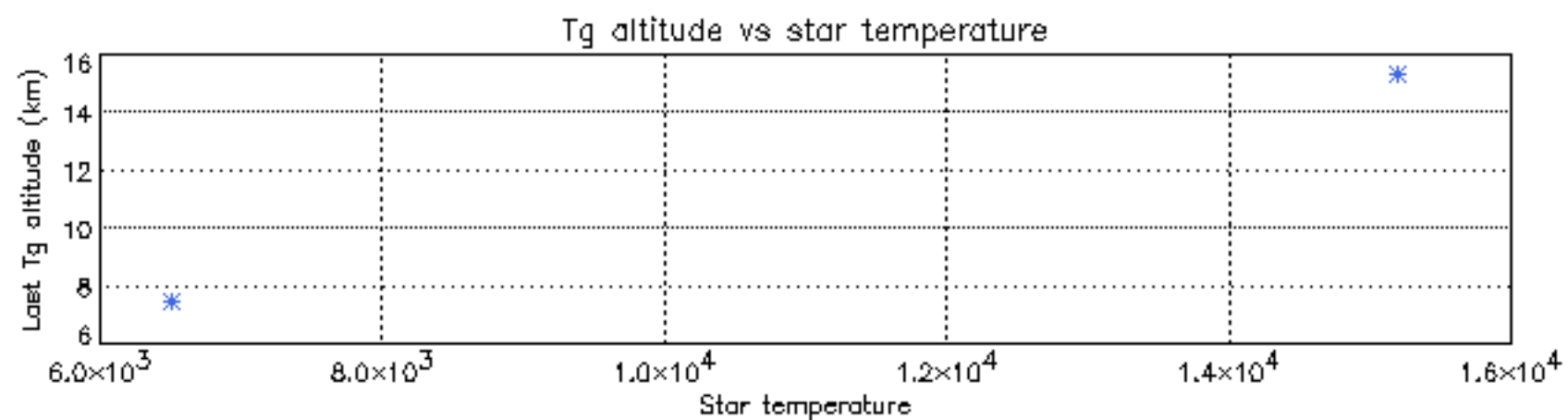
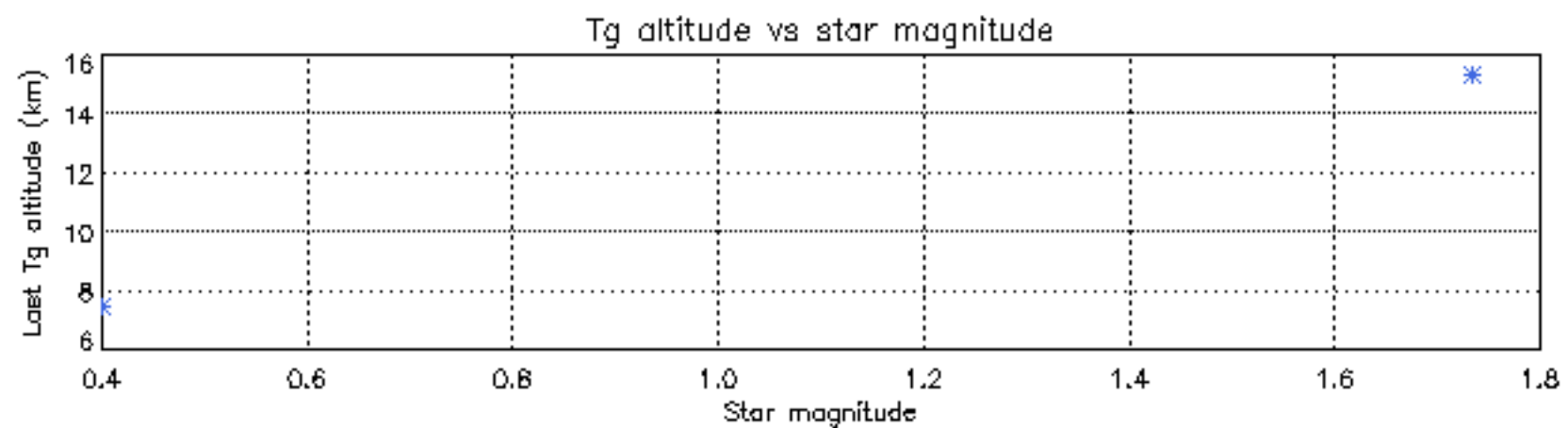
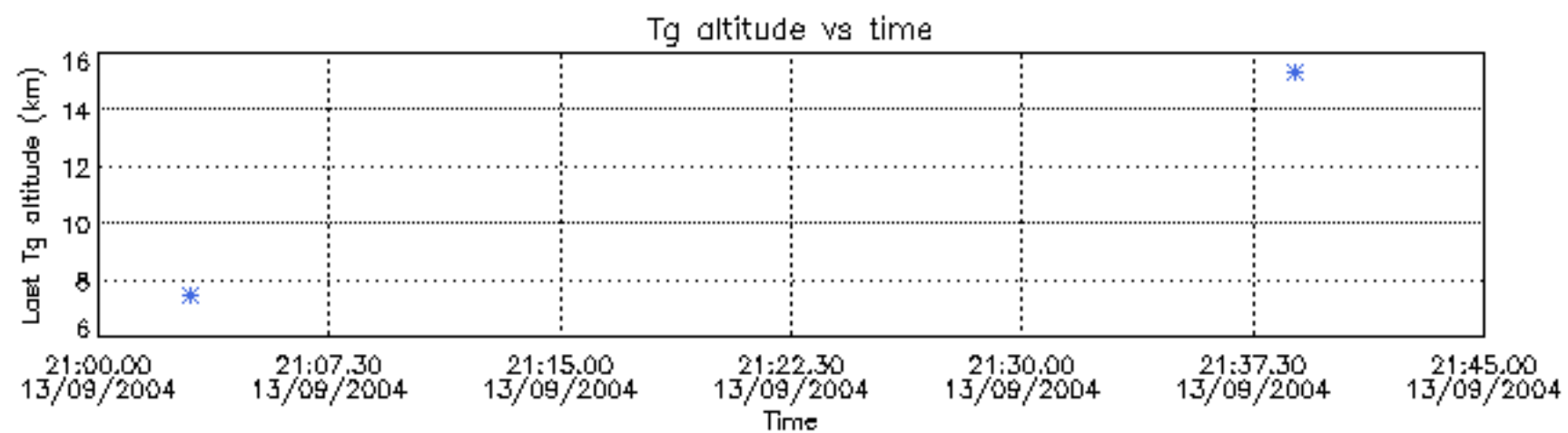
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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/data4_2/GOMOS/from_DDS/GOM_NL_0PNPDE20040901_003627_000058422030_00016_13096_0565.N1
 1; -769.3; 01-SEP-2004 00:36:27; Dark ; 71.0; 27; 24Gam Ori ; 1.64; 26000;occ; 142; 116;13096
 2; -661.8; 01-SEP-2004 00:38:14; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;13096
 3; -469.5; 01-SEP-2004 00:41:27; Dark ; 81.0; 7; 19Bet Ori ; 0.10; 14000;occ; 162; 0;13096
 4; -233.0; 01-SEP-2004 00:45:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13096
 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
10; 1328.1; 01-SEP-2004 01:11:24; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;13097
11; 1490.6; 01-SEP-2004 01:14:07; Dark ; 82.0; 52; 16Bet Cet ; 2.04; 4500;occ; 164; 0;13097
12; 1805.1; 01-SEP-2004 01:19:21; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;13097
13; 1890.9; 01-SEP-2004 01:20:47; Bright; 44.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 89; 0;13097
14; 2073.1; 01-SEP-2004 01:23:49; Bright; 40.5; 61; 8Eps Peg ; 2.10; 3900;occ; 81; 0;13097
15; 2245.6; 01-SEP-2004 01:26:42; Bright; 50.0; 90; 54Alp Peg ; 2.49; 11000;occ; 100; 0;13097
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
18; 2673.8; 01-SEP-2004 01:33:50; Bright; 41.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 82; 0;13097
19; 2973.7; 01-SEP-2004 01:38:50; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13097
20; 3138.5; 01-SEP-2004 01:41:35; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;13097
21; 3266.2; 01-SEP-2004 01:43:42; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;13097
22; 3430.1; 01-SEP-2004 01:46:26; Bright; 41.5; 49; 1Alp UMi ; 1.99; 6300;occ; 83; 0;13097
23; 3596.7; 01-SEP-2004 01:49:13; Bright; 95.5; 73; 57Gam1And ; 2.26; 13100;occ; 191; 0;13097
24; 3817.7; 01-SEP-2004 01:52:54; Bright; 53.0; 36; 50Alp UMa ; 1.80; 6300;occ; 106; 0;13097
25; 3899.3; 01-SEP-2004 01:54:15; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;13097
26; 4377.2; 01-SEP-2004 02:02:13; Bright; 48.5; 107; 37The Aur ; 2.65; 11000;occ; 97; 0;13097
27; 4514.0; 01-SEP-2004 02:04:30; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;13097
28; 4608.2; 01-SEP-2004 02:06:04; Dark ; 67.0; 28; 12Bet Tau ; 1.65; 15200;occ; 134; 0;13097
29; 4793.5; 01-SEP-2004 02:09:10; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;13097
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4; 1268.7; 05-SEP-2004 20:51:44; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;13166
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11; 2492.6; 05-SEP-2004 21:12:08; Bright; 38.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 76; 0;13166
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13; 2723.7; 05-SEP-2004 21:15:59; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;13166
14; 2968.6; 05-SEP-2004 21:20:04; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13166
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23; 4525.4; 05-SEP-2004 21:46:01; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;13166
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4;	-146.5;	05-SEP-2004	22:08:45;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13166
5;	543.4;	05-SEP-2004	22:20:15;	Dark	;	40.5;	135;	Bet Hyi	;	2.82;	5800;occ;	81;	0;	13167
6;	645.7;	05-SEP-2004	22:21:57;	Dark	;	46.5;	9;	Alp Eri	;	0.45;	24000;occ;	93;	0;	13167
7;	879.0;	05-SEP-2004	22:25:51;	Dark	;	41.5;	148;	Alp Tuc	;	2.88;	4100;occ;	83;	0;	13167
8;	1001.3;	05-SEP-2004	22:27:53;	Dark	;	46.5;	84;	Alp Phe	;	2.40;	4500;occ;	93;	0;	13167
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19;	2724.1;	05-SEP-2004	22:56:36;	Bright;		38.0;	144;	18Del Cyg	;	2.86;	11000;occ;	76;	0;	13167
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22;	3217.9;	05-SEP-2004	23:04:49;	Bright;		47.0;	76;	27Gam Cas	;	2.30;	30000;occ;	94;	0;	13167
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25;	3834.7;	05-SEP-2004	23:15:06;	Bright;		38.5;	36;	50Alp UMa	;	1.80;	6300;occ;	77;	0;	13167
26;	3920.1;	05-SEP-2004	23:16:32;	Bright;		37.0;	82;	48Bet UMa	;	2.37;	10600;occ;	74;	0;	13167
27;	4132.7;	05-SEP-2004	23:20:04;	Bright;		67.5;	6;	13Alp Aur	;	0.08;	3400;occ;	135;	0;	13167
28;	4377.9;	05-SEP-2004	23:24:09;	Bright;		53.5;	107;	37The Aur	;	2.65;	11000;occ;	107;	0;	13167
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31;	4820.5;	05-SEP-2004	23:31:32;	Dark	;	59.5;	44;	24Gam Gem	;	1.93;	11000;occ;	119;	0;	13167
32;	4936.1;	05-SEP-2004	23:33:28;	Dark	;	54.0;	8;	10Alp CMi	;	0.40;	6500;occ;	108;	0;	13167
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16;	2214.1;	06-SEP-2004	00:28:41;	Bright;		47.0;	90;	54Alp Peg	;	2.49;	11000;occ;	94;	0;	13168
17;	2490.5;	06-SEP-2004	00:33:18;	Bright;		42.0;	92;	53Eps Cyg	;	2.50;	4500;occ;	84;	0;	13168
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19;	2724.5;	06-SEP-2004	00:37:12;	Bright;		36.5;	144;	18Del Cyg	;	2.86;	11000;occ;	73;	0;	13168
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21;	3096.6;	06-SEP-2004	00:43:24;	Bright;		40.5;	74;	11Bet Cas	;	2.27;	6600;occ;	81;	0;	13168
22;	3217.8;	06-SEP-2004	00:45:25;	Bright;		46.0;	76;	27Gam Cas	;	2.30;	30000;occ;	92;	0;	13168
23;	3428.9;	06-SEP-2004	00:48:56;	Bright;		40.5;	49;	1Alp UMi	;	1.99;	6300;occ;	81;	0;	13168
24;	3633.6;	06-SEP-2004	00:52:21;	Bright;		58.0;	160;	23Gam Per	;	2.93;	4700;occ;	116;	0;	13168
25;	3836.8;	06-SEP-2004	00:55:44;	Bright;		39.0;	36;	50Alp UMa	;	1.80;	6300;occ;	78;	0;	13168
26;	3920.2;	06-SEP-2004	00:57:08;	Bright;		53.0;	82;	48Bet UMa	;	2.37;	10600;occ;	106;	0;	13168
27;	4132.3;	06-SEP-2004	01:00:40;	Bright;		63.0;	6;	13Alp Aur	;	0.08;	3400;occ;	126;	0;	13168
28;	4378.1;	06-SEP-2004	01:04:45;	Bright;		56.0;	107;	37The Aur	;	2.65;	11000;occ;	112;	0;	13168
29;	4525.6;	06-SEP-2004	01:07:13;	Bright;		43.5;	17;	78Bet Gem	;	1.16;	4500;occ;	87;	0;	13168
30;	4631.7;	06-SEP-2004	01:08:59;	Dark	;	77.5;	28;	12Bet Tau	;	1.65;	15200;occ;	155;	0;	13168
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5;	-178.6;	11-SEP-2004	22:19:42;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	13252
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8;	560.7;	11-SEP-2004	22:32:01;	Dark	;	39.0;	135;	Bet Hyi	;	2.82;	5800;	occ;	78;	0;	13253
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13;	1366.4;	11-SEP-2004	22:45:27;	Dark	;	48.5;	18;	24Alp PsA	;	1.17;	9700;	occ;	97;	0;	13253
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3;	-397.9;	11-SEP-2004	23:56:38;	Dark	;	47.5;	23;	21Eps CMa	;	1.50;	26000;	occ;	95;	0;	13253
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19;	2442.1;	12-SEP-2004	00:43:58;	Bright;		41.5;	164;	44Eta Peg	;	2.95;	5400;	occ;	83;	0;	13254
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21;	2754.4;	12-SEP-2004	00:49:10;	Bright;		40.0;	144;	18Del Cyg	;	2.86;	11000;	occ;	80;	0;	13254
22;	2968.1;	12-SEP-2004	00:52:44;	Bright;		38.5;	89;	5Alp Cep	;	2.45;	8000;	occ;	77;	0;	13254
23;	3050.1;	12-SEP-2004	00:54:06;	Bright;		40.5;	74;	11Bet Cas	;	2.27;	6600;	occ;	81;	0;	13254
24;	3163.8;	12-SEP-2004	00:56:00;	Bright;		45.0;	76;	27Gam Cas	;	2.30;	30000;	occ;	90;	0;	13254
25;	3430.0;	12-SEP-2004	01:00:26;	Bright;		35.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	71;	0;	13254
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