

GOMOS Daily Report 15-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 09:34:27
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (15SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (16SEP2004 00:00:00)

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

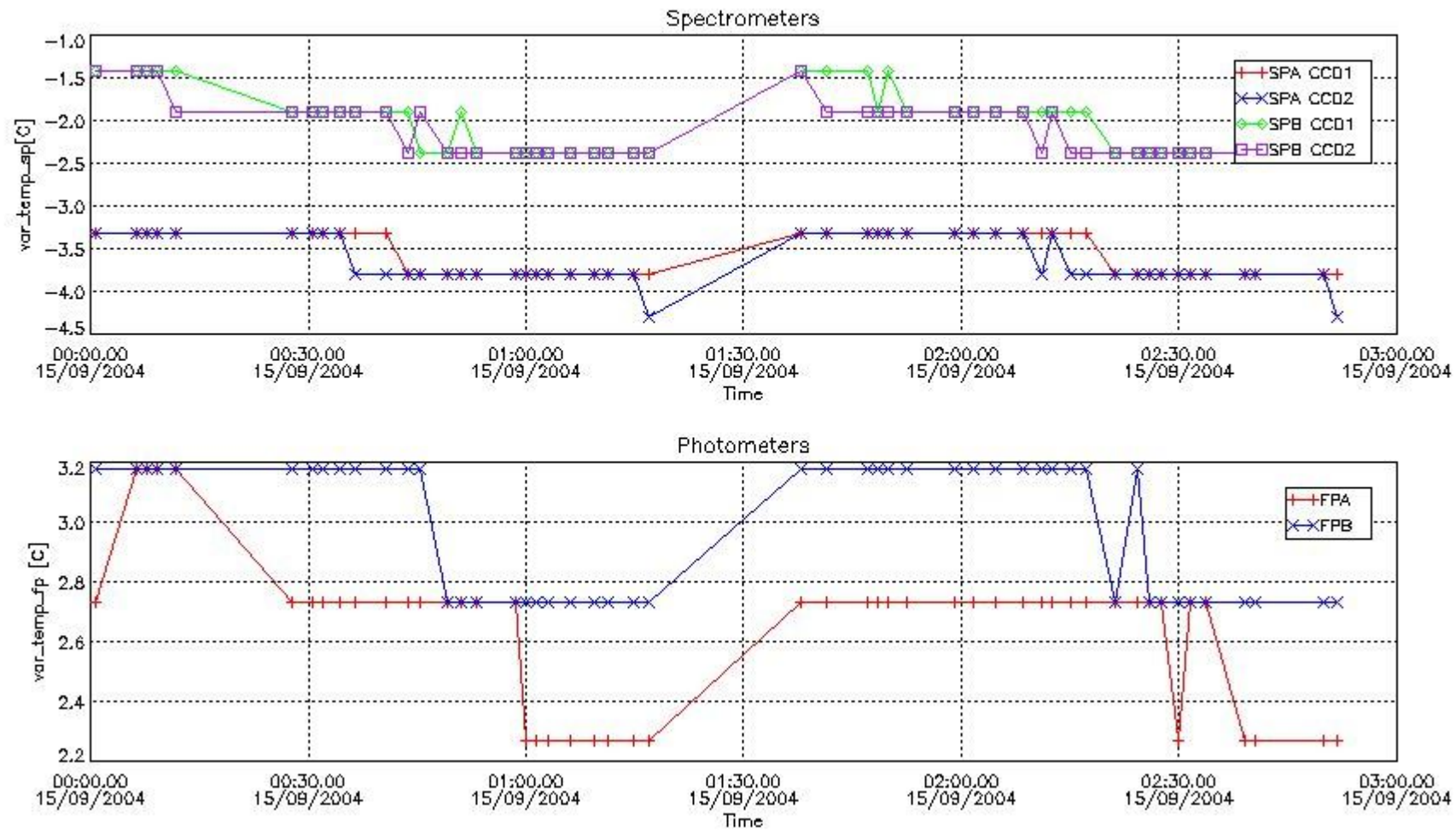
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040915_000042_000000632030_00216_13296_0001.N1	15-SEP-2004 00:00:42	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	13296	No
GOM_TRA_1PNPDE20040915_000622_000000422030_00216_13296_0002.N1	15-SEP-2004 00:06:22	Dark	41.500	46	Del Vel	1.9540	10600.	83	13296	No
GOM_TRA_1PNPDE20040915_000752_000000412030_00216_13296_0003.N1	15-SEP-2004 00:07:52	Dark	40.500	41	Eps Car	1.8600	4100.0	81	13296	No
GOM_TRA_1PNPDE20040915_000913_000000572030_00217_13297_0004.N1	15-SEP-2004 00:09:13	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	13297	No
GOM_TRA_1PNPDE20040915_001141_000002342030_00217_13297_0005.N1	15-SEP-2004 00:11:41	Dark	234.00	128	67Bet Eri	2.7840	9700.0	468	13297	No
GOM_TRA_1PNPDE20040915_002746_000000412030_00217_13297_0009.N1	15-SEP-2004 00:27:46	Twilight	40.500	31	Alp Gru	1.7340	15200.	81	13297	No
GOM_TRA_1PNPDE20040915_003033_000000382030_00217_13297_0010.N1	15-SEP-2004 00:30:33	Bright	37.500	172	Gam Gru	3.0030	13100.	75	13297	No
GOM_TRA_1PNPDE20040915_003156_000000492030_00217_13297_0011.N1	15-SEP-2004 00:31:56	Bright	48.500	18	24Alp PsA	1.1660	9700.0	97	13297	No
GOM_TRA_1PNPDE20040915_003424_000000712030_00217_13297_0012.N1	15-SEP-2004 00:34:24	Bright	71.000	52	16Bet Cet	2.0370	4500.0	142	13297	No
GOM_TRA_1PNPDE20040915_003628_000000412030_00217_13297_0013.N1	15-SEP-2004 00:36:28	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	13297	No
GOM_TRA_1PNPDE20040915_004040_000000422030_00217_13297_0014.N1	15-SEP-2004 00:40:40	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	13297	No
GOM_TRA_1PNPDE20040915_004342_000000402030_00217_13297_0015.N1	15-SEP-2004 00:43:42	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	13297	No
GOM_TRA_1PNPDE20040915_004518_000000422030_00217_13297_0016.N1	15-SEP-2004 00:45:18	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	13297	No
GOM_TRA_1PNPDE20040915_004910_000000452030_00217_13297_0018.N1	15-SEP-2004 00:49:10	Bright	45.000	93	53Bet Peg	2.5200	3100.0	90	13297	No
GOM_TRA_1PNPDE20040915_005100_000000392030_00217_13297_0019.N1	15-SEP-2004 00:51:00	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	13297	No
GOM_TRA_1PNPDE20040915_005306_000000412030_00217_13297_0020.N1	15-SEP-2004 00:53:06	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	13297	No
GOM_TRA_1PNPDE20040915_005829_000000392030_00217_13297_0021.N1	15-SEP-2004 00:58:29	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	13297	No
GOM_TRA_1PNPDE20040915_005956_000000472030_00217_13297_0022.N1	15-SEP-2004 00:59:56	Bright	46.500	68	18Alp Cas	2.2250	4500.0	93	13297	No
GOM_TRA_1PNPDE20040915_010119_000000442030_00217_13297_0023.N1	15-SEP-2004 01:01:19	Bright	43.500	76	27Gam Cas	2.3000	30000.	87	13297	No
GOM_TRA_1PNPDE20040915_010302_000000652030_00217_13297_0024.N1	15-SEP-2004 01:03:02	Bright	64.500	73	57Gam1And	2.2600	13100.	129	13297	No
GOM_TRA_1PNPDE20040915_010609_000000392030_00217_13297_0025.N1	15-SEP-2004 01:06:09	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13297	No
GOM_TRA_1PNPDE20040915_010920_000000692030_00217_13297_0026.N1	15-SEP-2004 01:09:20	Bright	69.000	35	33Alp Per	1.7950	6250.0	138	13297	No
GOM_TRA_1PNPDE20040915_011116_000000692030_00217_13297_0027.N1	15-SEP-2004 01:11:16	Bright	69.000	175	39Del Per	3.0100	19400.	138	13297	No
GOM_TRA_1PNPDE20040915_011454_000000382030_00217_13297_0028.N1	15-SEP-2004 01:14:54	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	13297	No
GOM_TRA_1PNPDE20040915_011658_000000712030_00217_13297_0029.N1	15-SEP-2004 01:16:58	Bright	70.500	6	13Alp Aur	0.080000	3400.0	141	13297	No
GOM_TRA_1PNPDE20040915_013751_000001372030_00217_13297_0000.N1	15-SEP-2004 01:37:51	Dark	137.00	14	58Alp Ori	0.87000	3000.0	274	13297	No
GOM_TRA_1PNPDE20040915_014119_000000592030_00217_13297_0001.N1	15-SEP-2004 01:41:19	Dark	58.500	1	9Alp CMa	-1.4400	11000.	117	13297	No
GOM_TRA_1PNPDE20040915_014658_000000402030_00217_13297_0002.N1	15-SEP-2004 01:46:58	Dark	40.000	46	Del Vel	1.9540	10600.	80	13297	No
GOM_TRA_1PNPDE20040915_014829_000000432030_00217_13297_0003.N1	15-SEP-2004 01:48:29	Dark	43.000	41	Eps Car	1.8600	4100.0	86	13297	No
GOM_TRA_1PNPDE20040915_014952_000000572030_00218_13298_0004.N1	15-SEP-2004 01:49:52	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	13298	No
GOM_TRA_1PNPDE20040915_015224_000002342030_00218_13298_0005.N1	15-SEP-2004 01:52:24	Dark	234.00	128	67Bet Eri	2.7840	9700.0	468	13298	No
GOM_TRA_1PNPDE20040915_015905_000000392030_00218_13298_0006.N1	15-SEP-2004 01:59:05	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	13298	No
GOM_TRA_1PNPDE20040915_020133_000000482030_00218_13298_0007.N1	15-SEP-2004 02:01:33	Dark	47.500	9	Alp Eri	0.45300	24000.	95	13298	No
GOM_TRA_1PNPDE20040915_020438_000000422030_00218_13298_0008.N1	15-SEP-2004 02:04:38	Dark	42.000	148	Alp Tuc	2.8780	4100.0	84	13298	No
GOM_TRA_1PNPDE20040915_020822_000000422030_00218_13298_0009.N1	15-SEP-2004 02:08:22	Twilight	42.000	31	Alp Gru	1.7340	15200.	84	13298	No
GOM_TRA_1PNPDE20040915_021109_000000392030_00218_13298_0010.N1	15-SEP-2004 02:11:09	Bright	38.500	172	Gam Gru	3.0030	13100.	77	13298	No
GOM_TRA_1PNPDE20040915_021232_000000482030_00218_13298_0011.N1	15-SEP-2004 02:12:32	Bright	48.000	18	24Alp PsA	1.1660	9700.0	96	13298	No
GOM_TRA_1PNPDE20040915_021500_000000622030_00218_13298_0012.N1	15-SEP-2004 02:15:00	Bright	62.000	52	16Bet Cet	2.0370	4500.0	124	13298	No
GOM_TRA_1PNPDE20040915_021705_000000442030_00218_13298_0013.N1	15-SEP-2004 02:17:05	Bright	43.500	142	49Del Cap	2.8500	8900.0	87	13298	No
GOM_TRA_1PNPDE20040915_022116_000000422030_00218_13298_0014.N1	15-SEP-2004 02:21:16	Bright	42.000	162	34Alp Aqr	2.9440	5350.0	84	13298	No
GOM_TRA_1PNPDE20040915_022416_000000422030_00218_13298_0015.N1	15-SEP-2004 02:24:16	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	13298	No
GOM_TRA_1PNPDE20040915_022555_000000422030_00218_13298_0016.N1	15-SEP-2004 02:25:55	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	13298	No
GOM_TRA_1PNPDE20040915_022728_000000522030_00218_13298_0017.N1	15-SEP-2004 02:27:28	Bright	51.500	140	88Gam Peg	2.8340	26000.	103	13298	No
GOM_TRA_1PNPDE20040915_022946_000000432030_00218_13298_0018.N1	15-SEP-2004 02:29:46	Bright	42.500	93	53Bet Peg	2.5200	3100.0	85	13298	No
GOM_TRA_1PNPDE20040915_023136_000000392030_00218_13298_0019.N1	15-SEP-2004 02:31:36	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	13298	No
GOM_TRA_1PNPDE20040915_023343_000000372030_00218_13298_0020.N1	15-SEP-2004 02:33:43	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	13298	No
GOM_TRA_1PNPDE20040915_023903_000000412030_00218_13298_0021.N1	15-SEP-2004 02:39:03	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	13298	No
GOM_TRA_1PNPDE20040915_024032_000000422030_00218_13298_0022.N1	15-SEP-2004 02:40:32	Bright	41.500	68	18Alp Cas	2.2250	4500.0	83	13298	No
GOM_TRA_1PNPDE20040915_024955_000000682030_00218_13298_0000.N1	15-SEP-2004 02:49:55	Bright	67.500	35	33Alp Per	1.7950	6250.0	135	13298	No

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



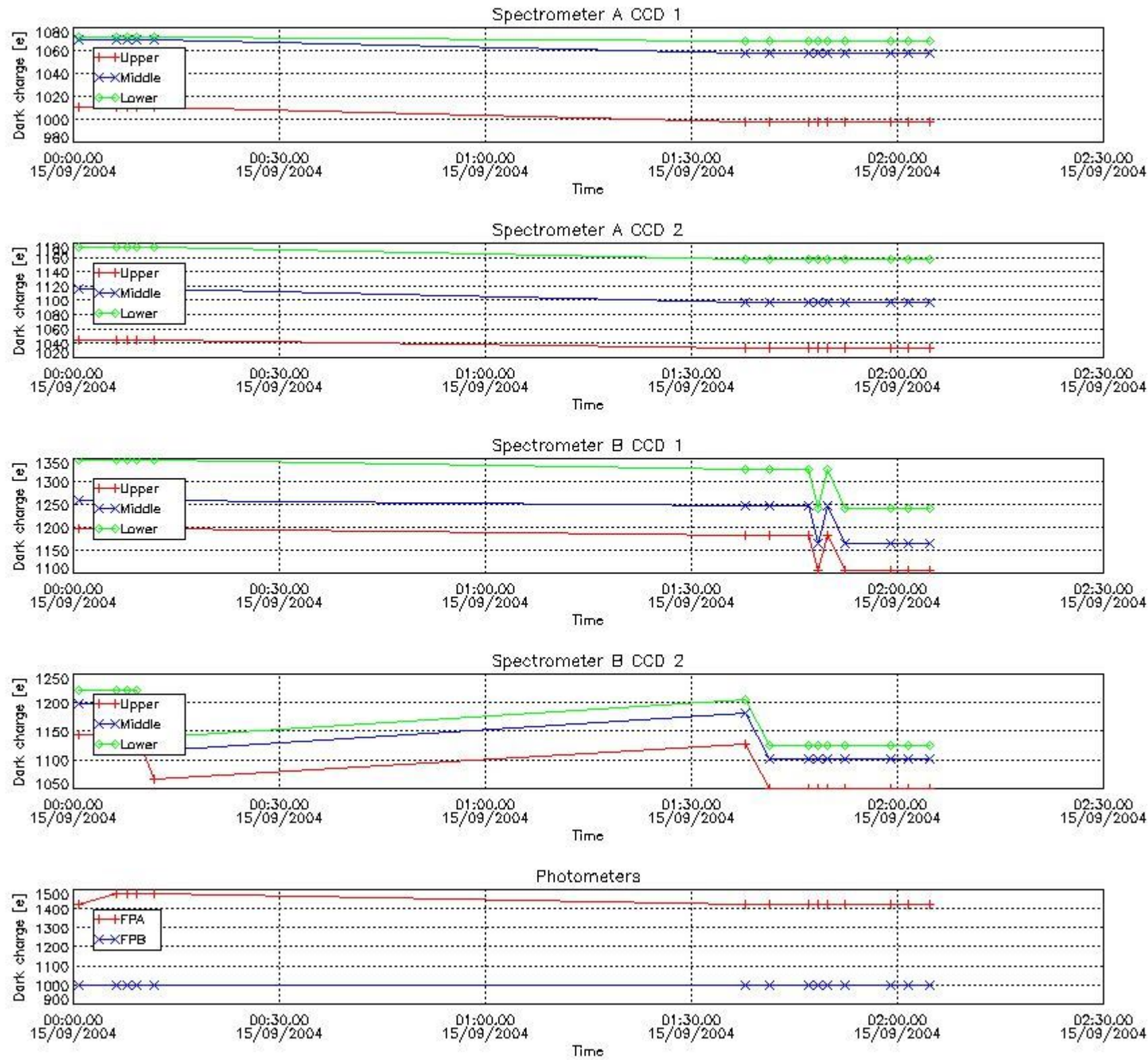
4. Overview of dark signal processing per product

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



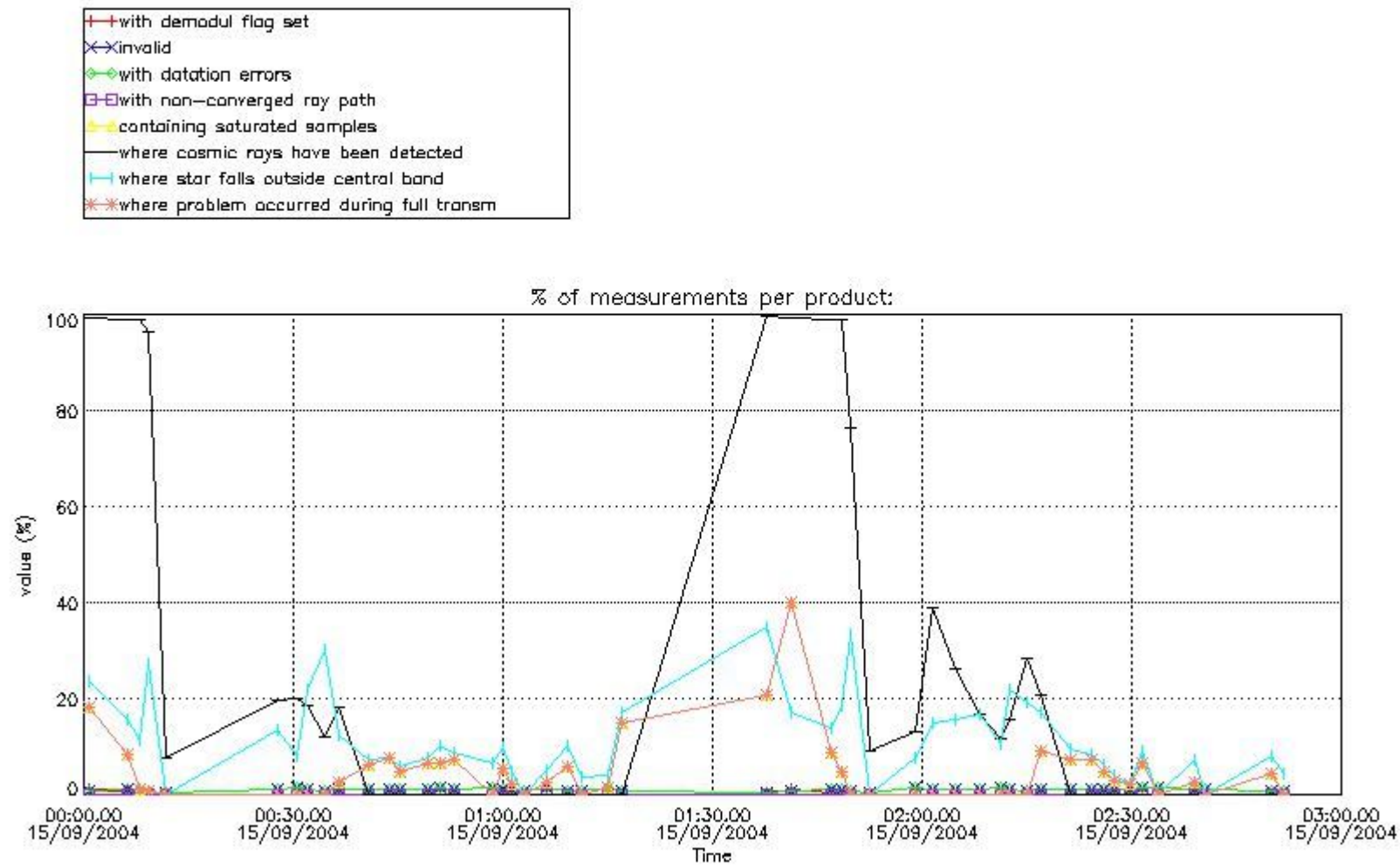
5. Demodulation flag and quality information monitoring

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.

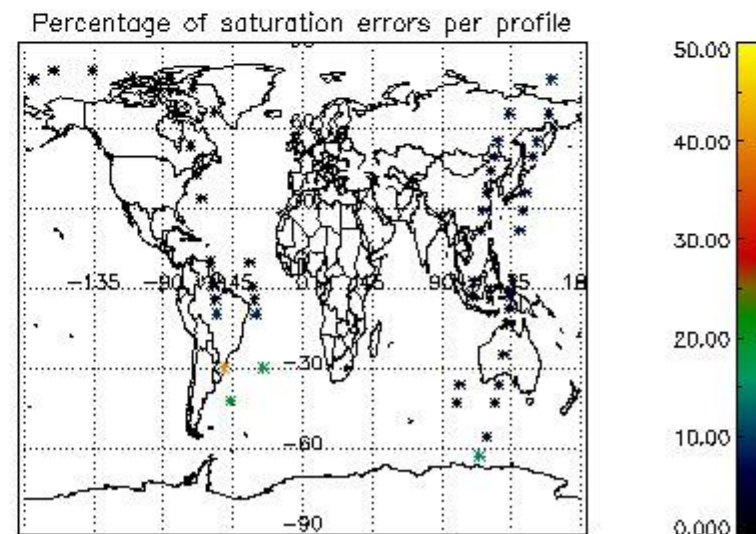
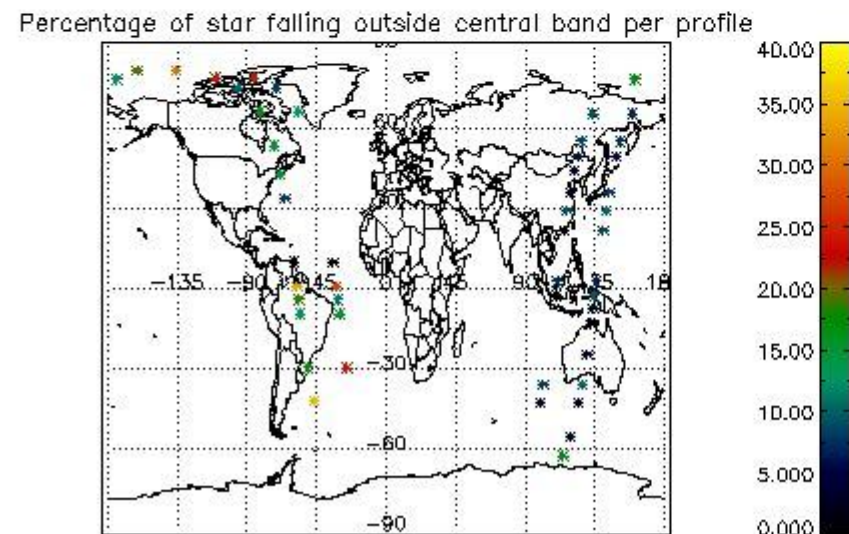
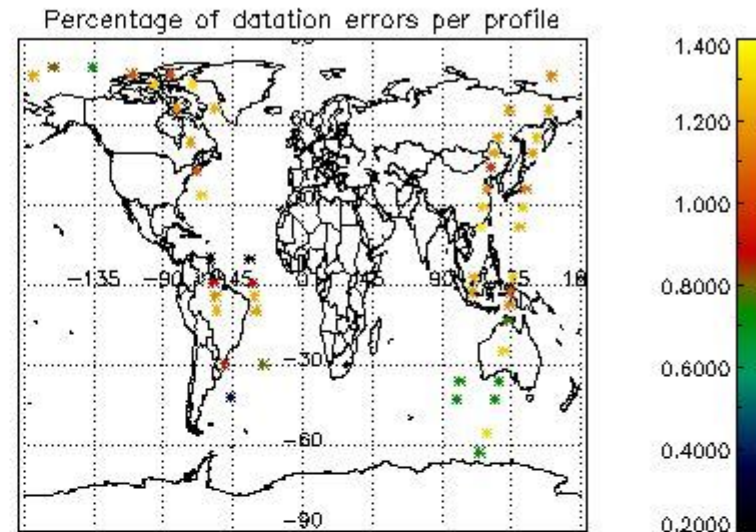
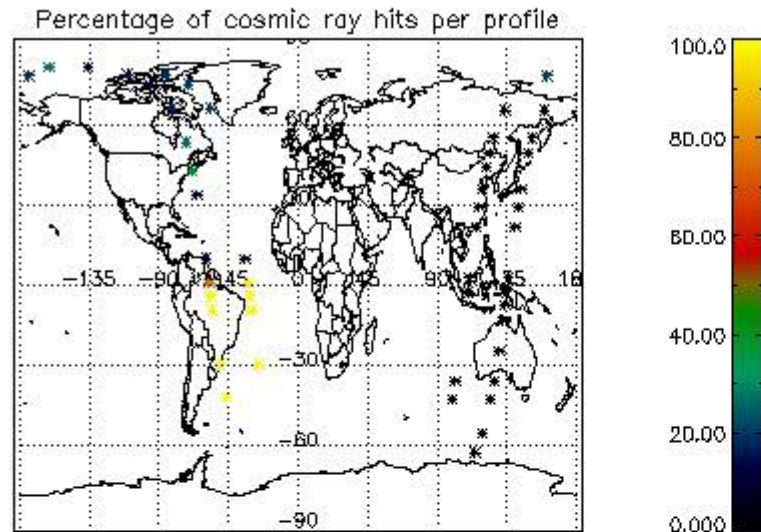
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.0000 %
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)



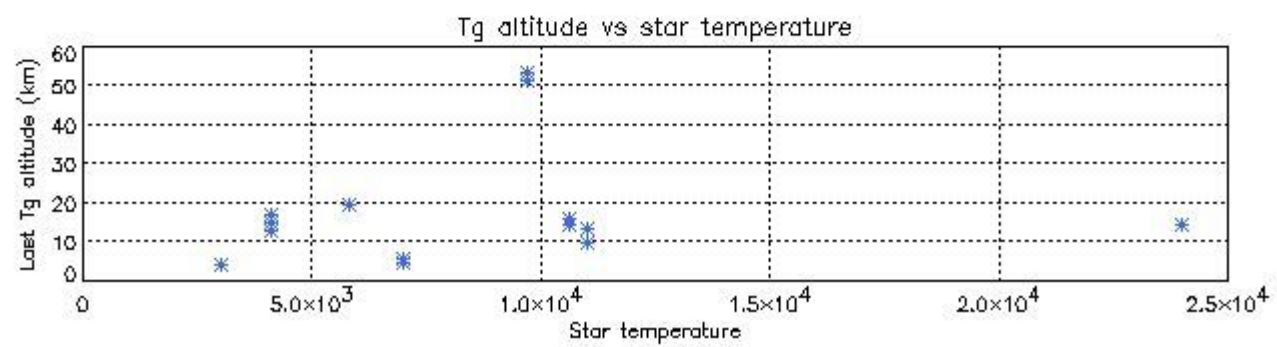
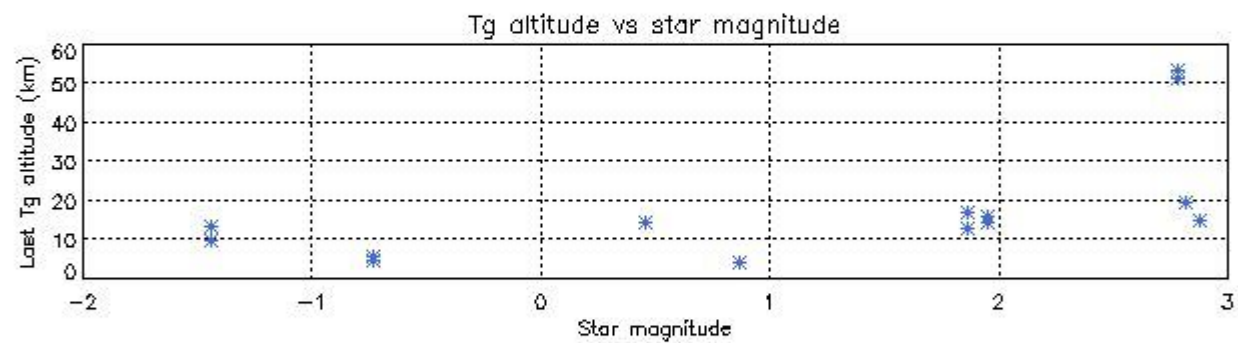
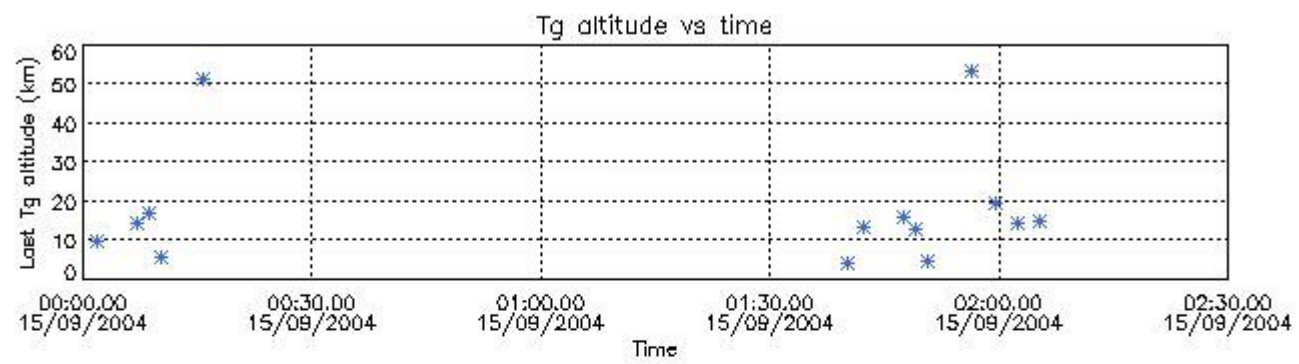
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.943	18.932	14.957
St. deviation:	15.295	4.7687	1.0081
Maximum:	53.478	28.079	15.669
Minimum:	4.0762	6.2253	14.244
Number of data:	14.000	34.000	2.0000

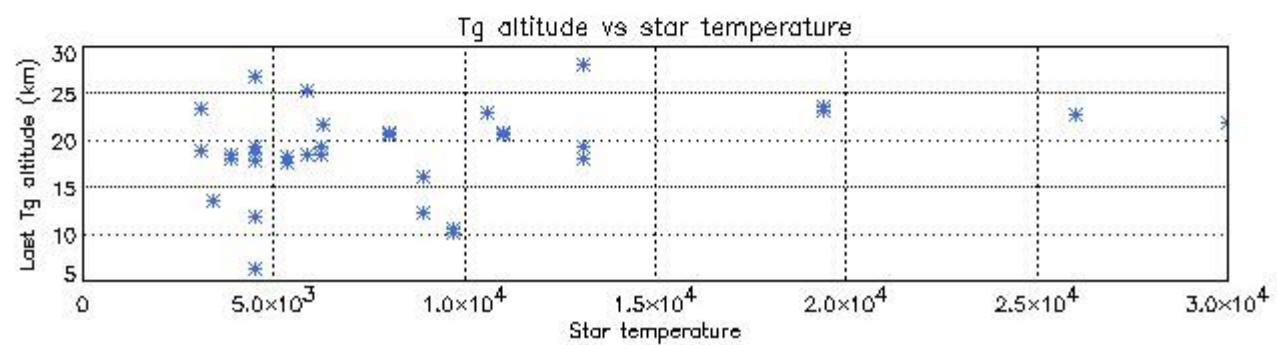
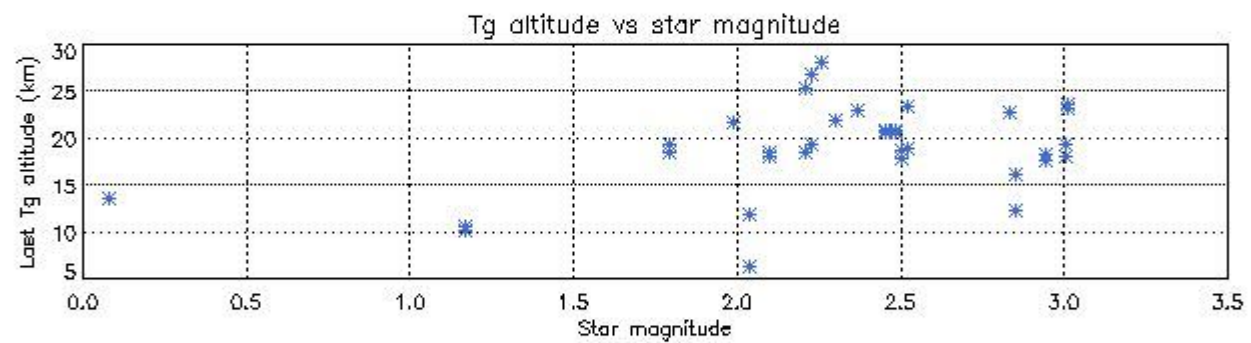
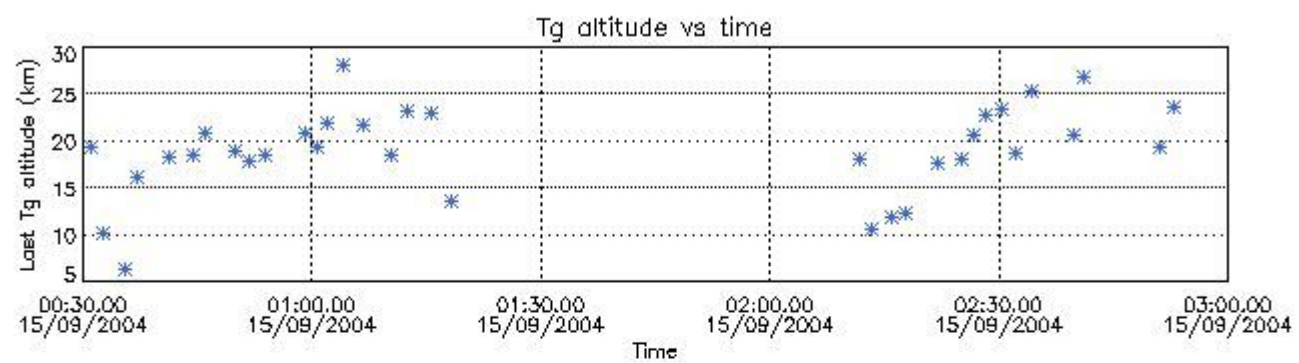
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



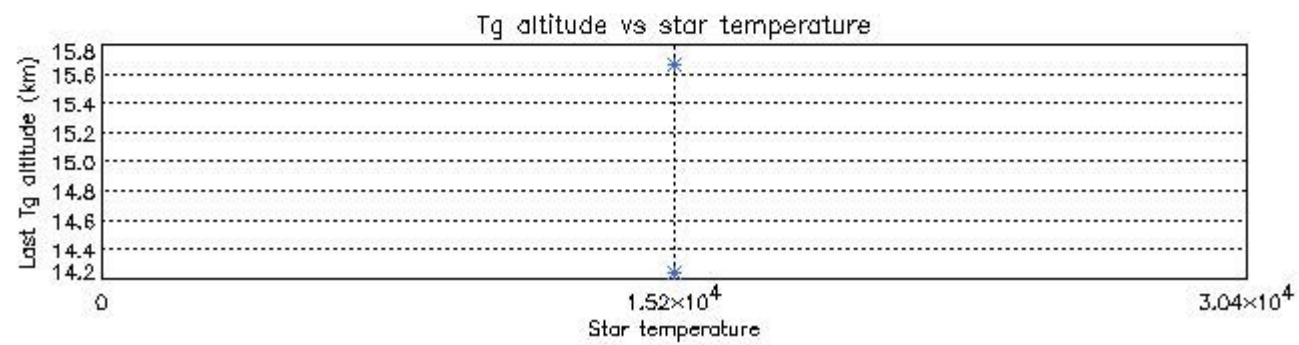
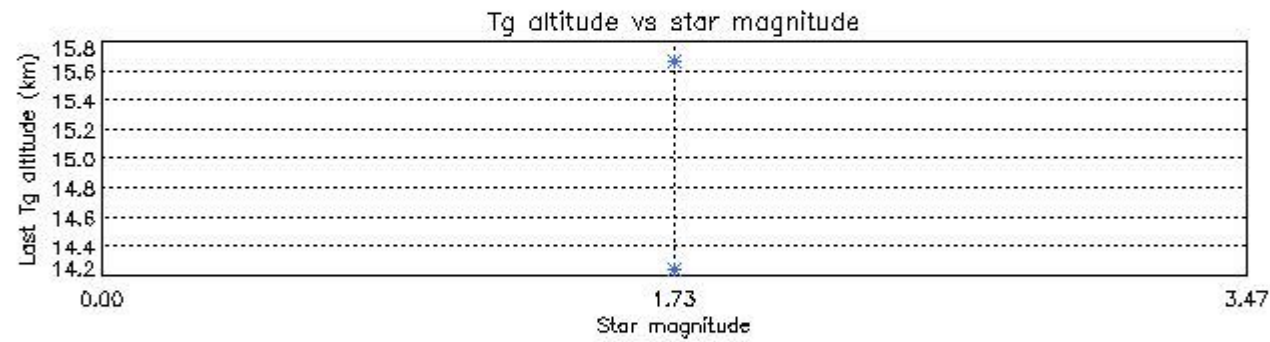
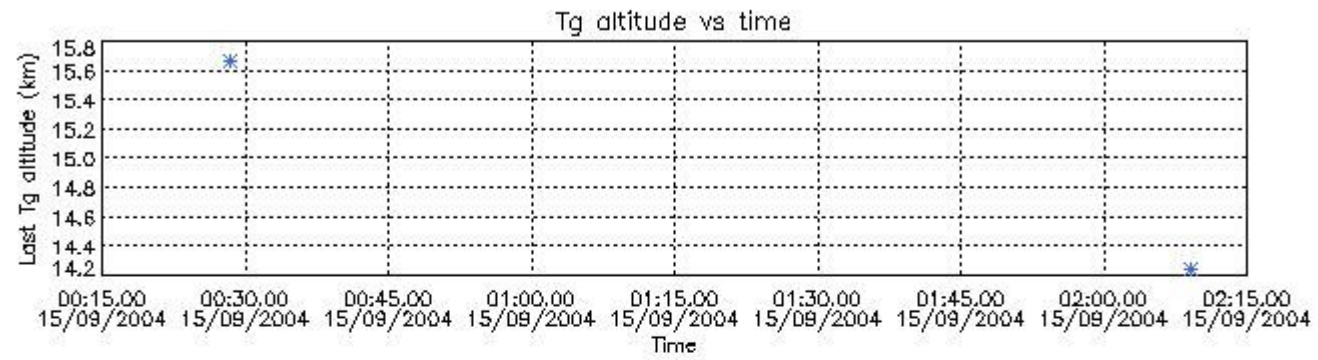
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

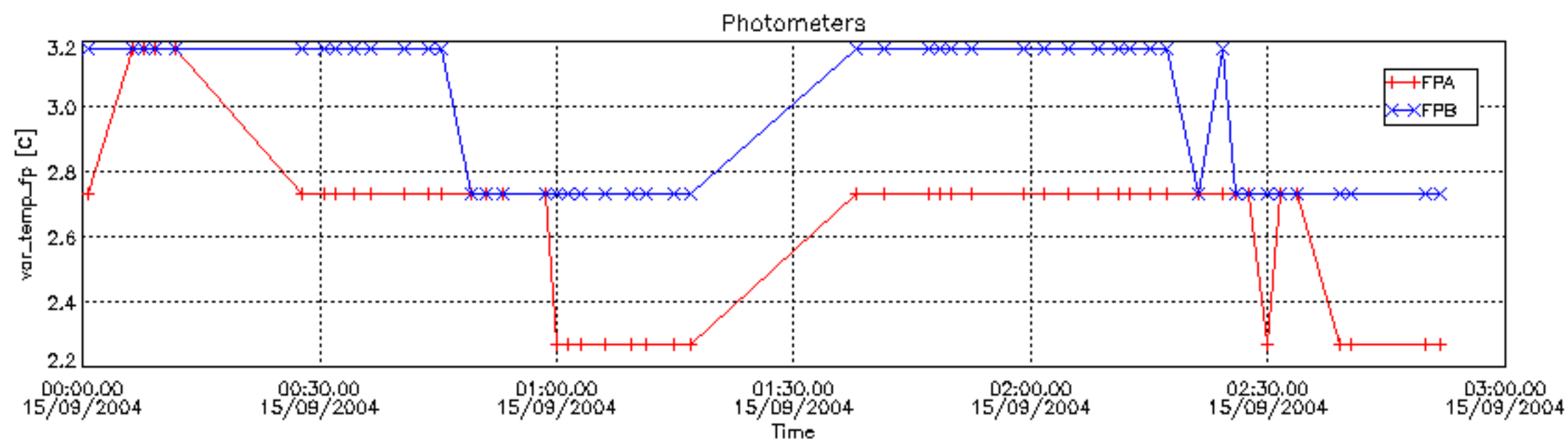
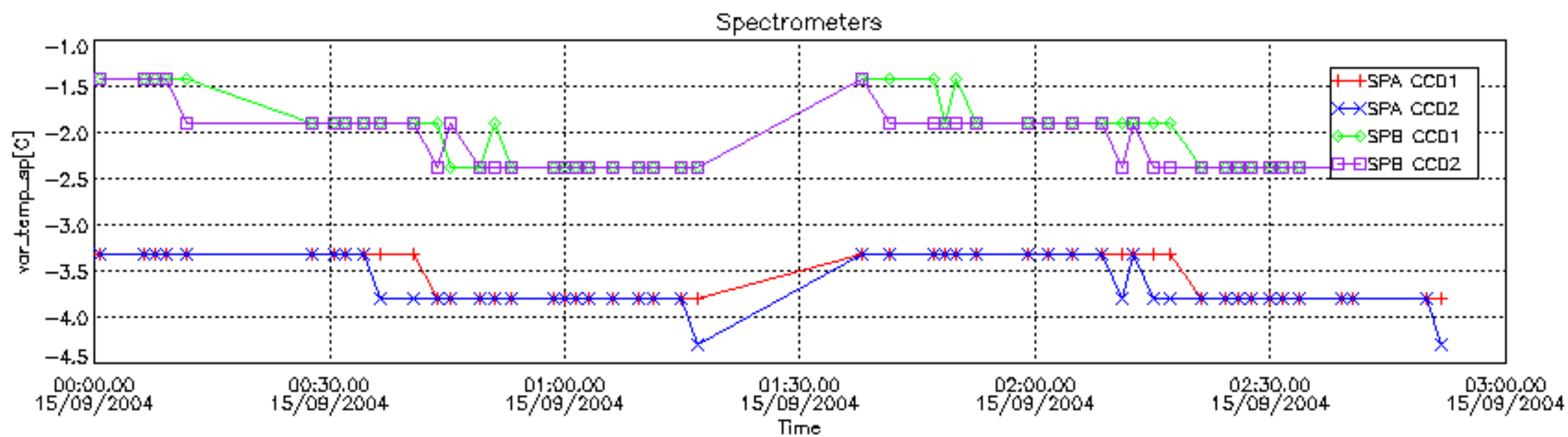
Tangent altitude at which the star is lost

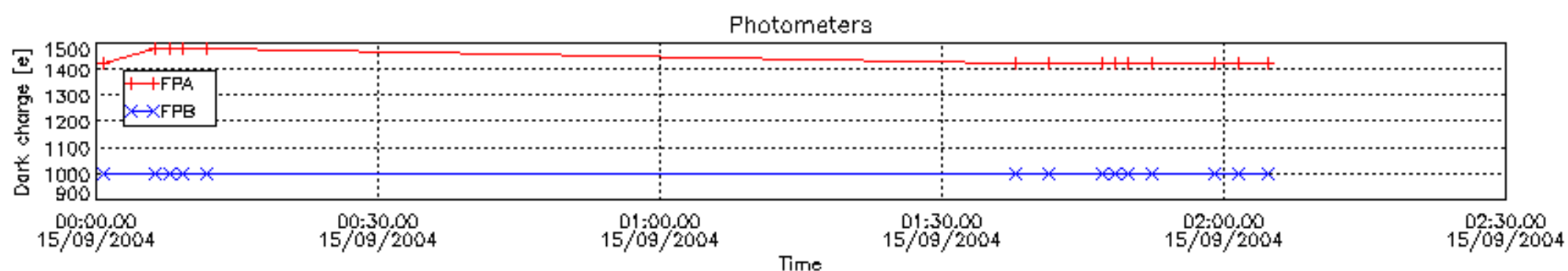
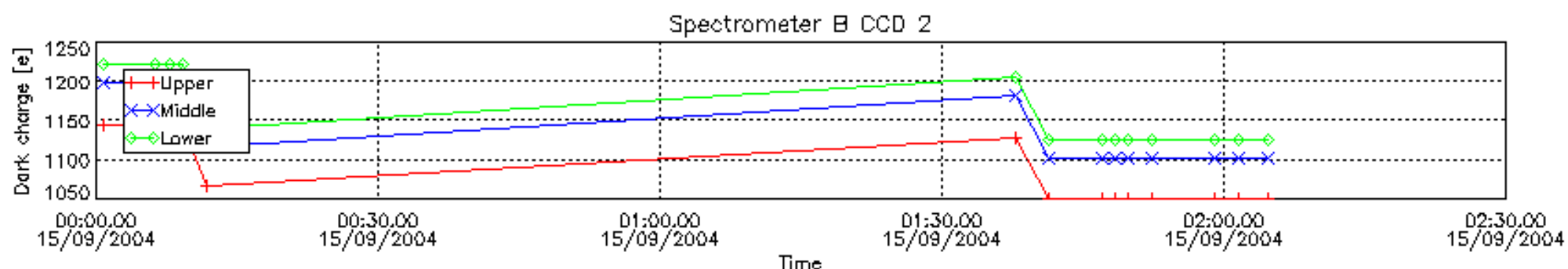
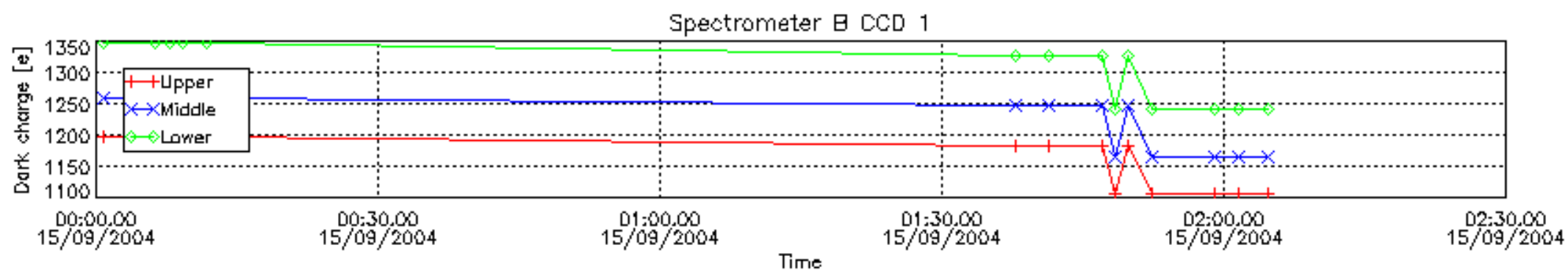
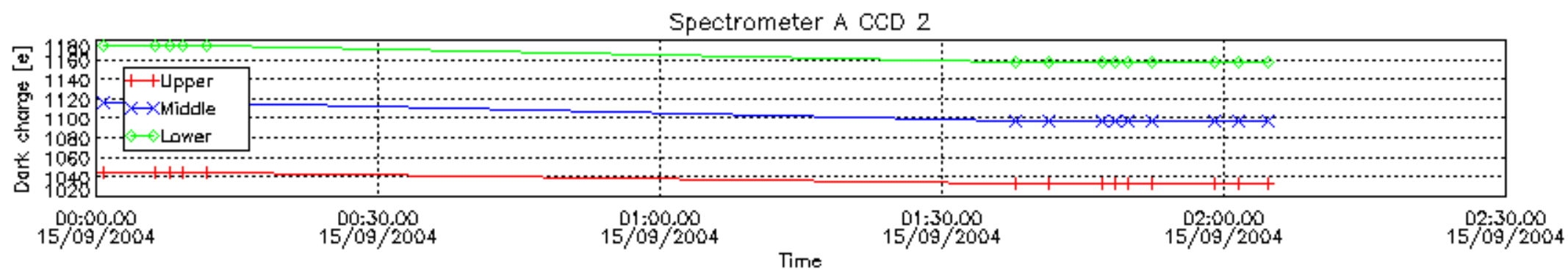
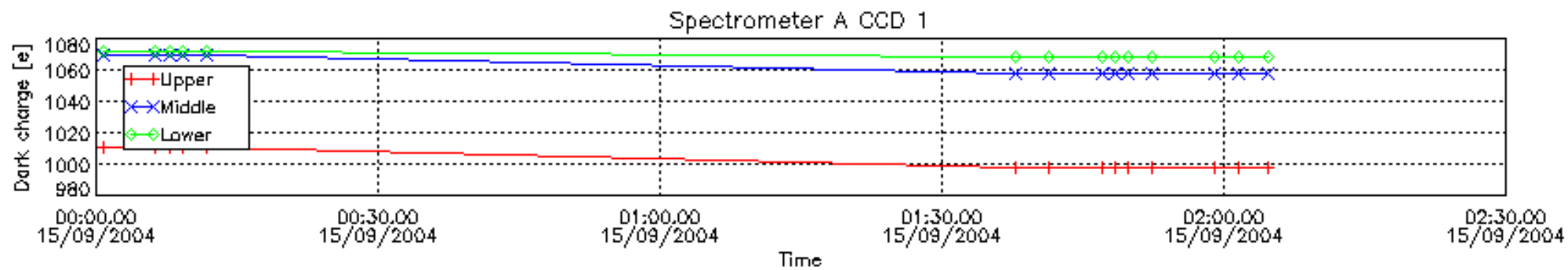


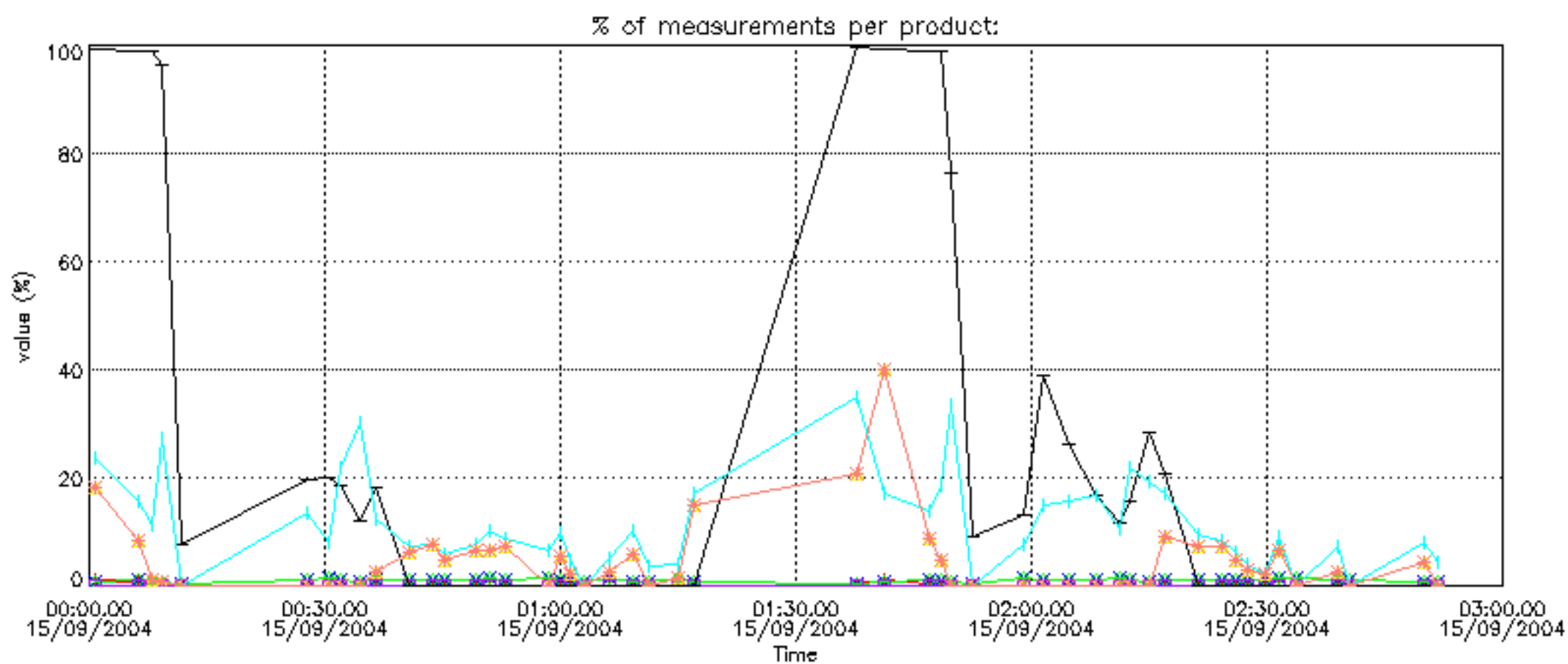
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

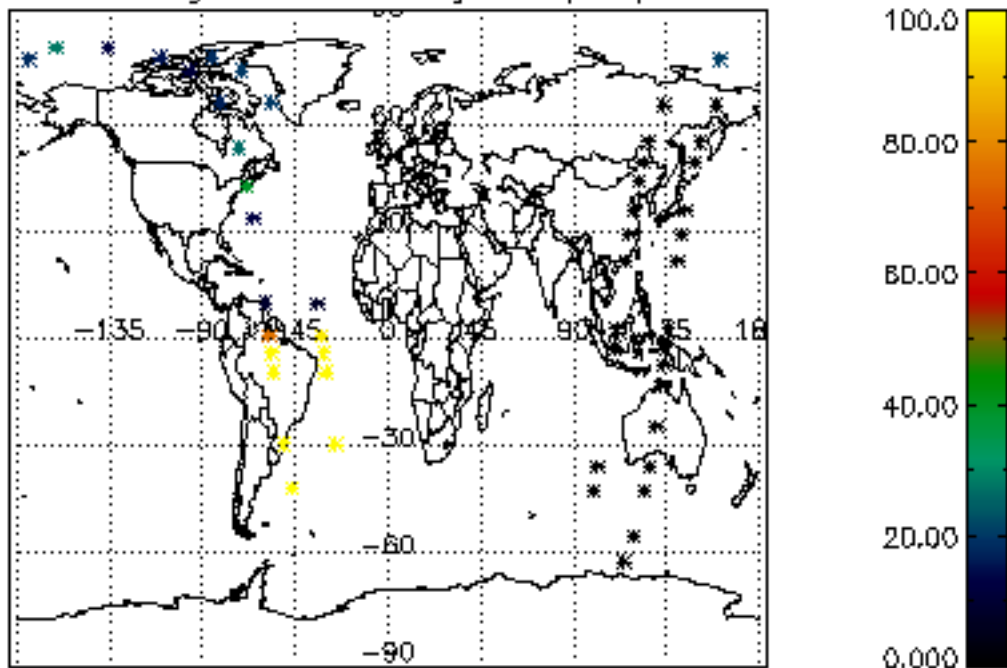
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.6	1447.9	1461.6	1447.5
St. deviation:	3.8905	5.1673	7.1092	8.1261
Maximum:	1502.0	1494.0	1533.0	1513.0
Minimum:	1446.0	1429.0	1401.0	1397.0
Number of data:	28200.	28200.	42700.	42700.



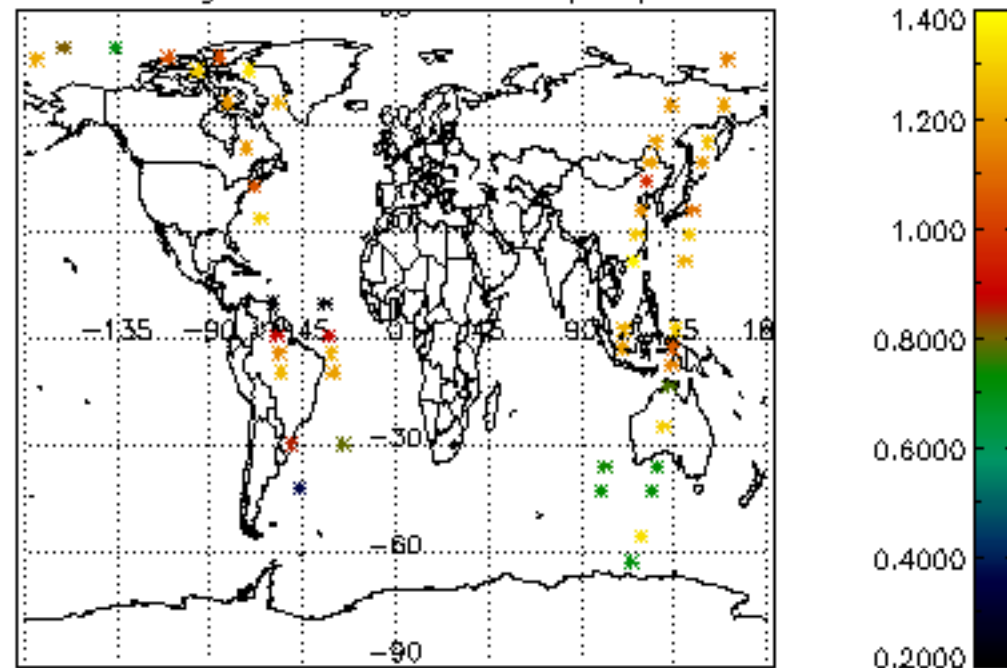




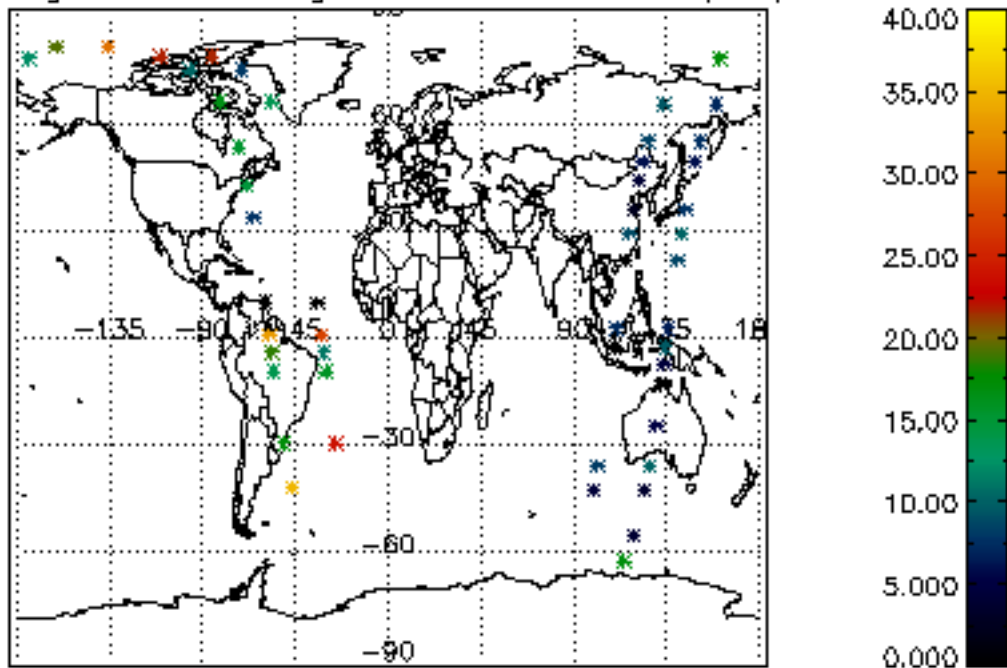
Percentage of cosmic ray hits per profile



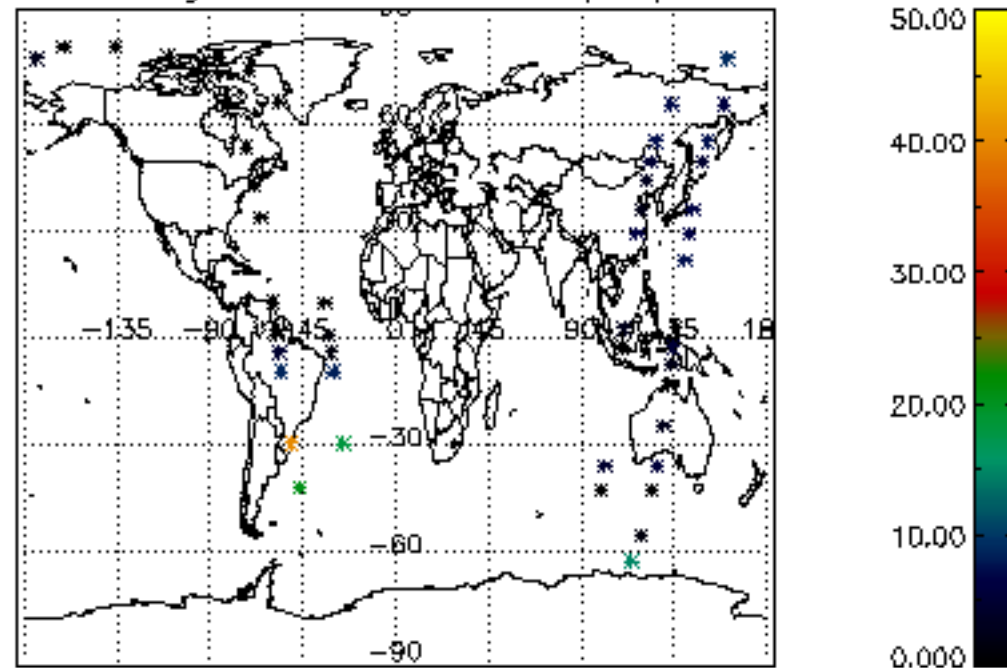
Percentage of datation errors per profile



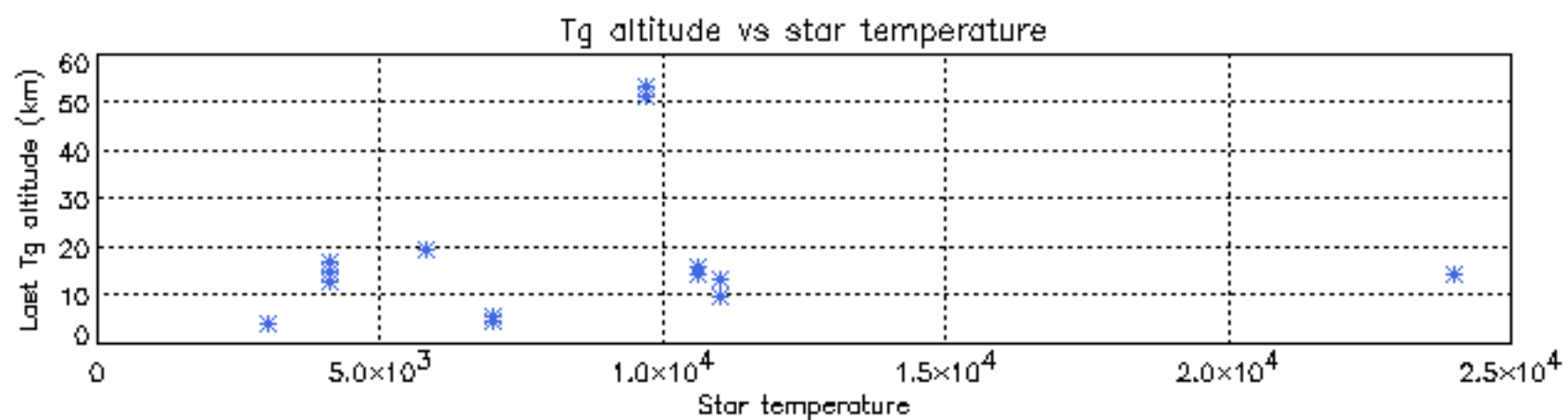
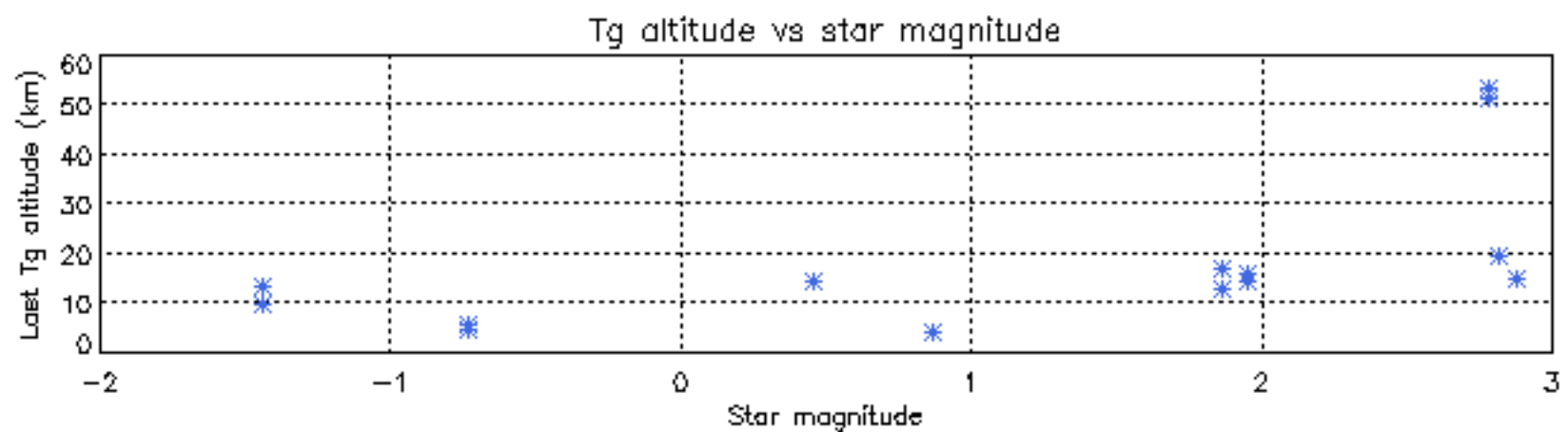
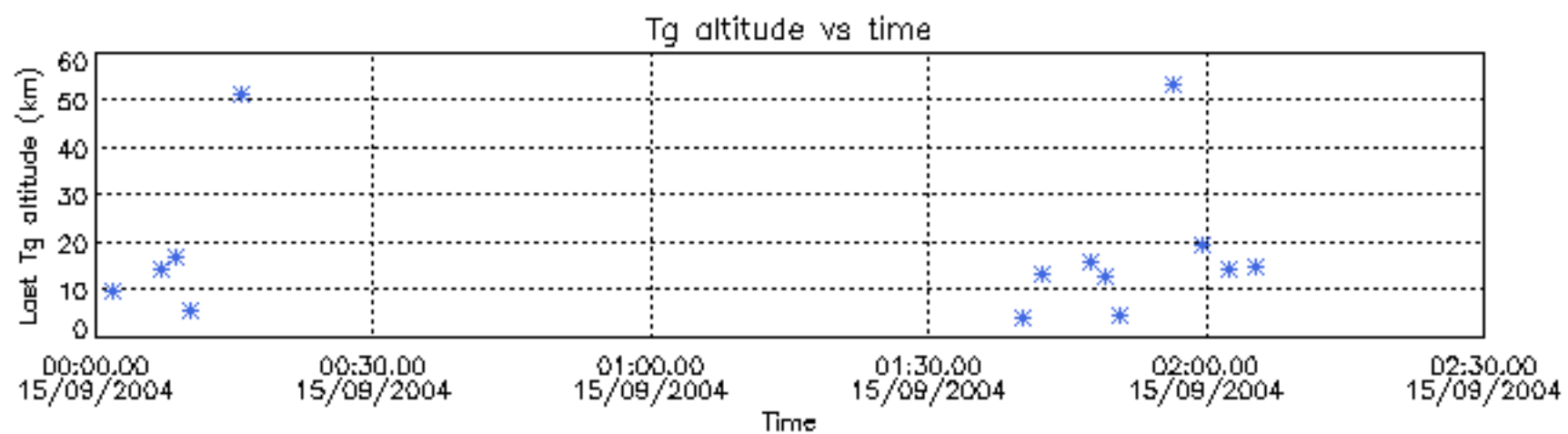
Percentage of star falling outside central band per profile



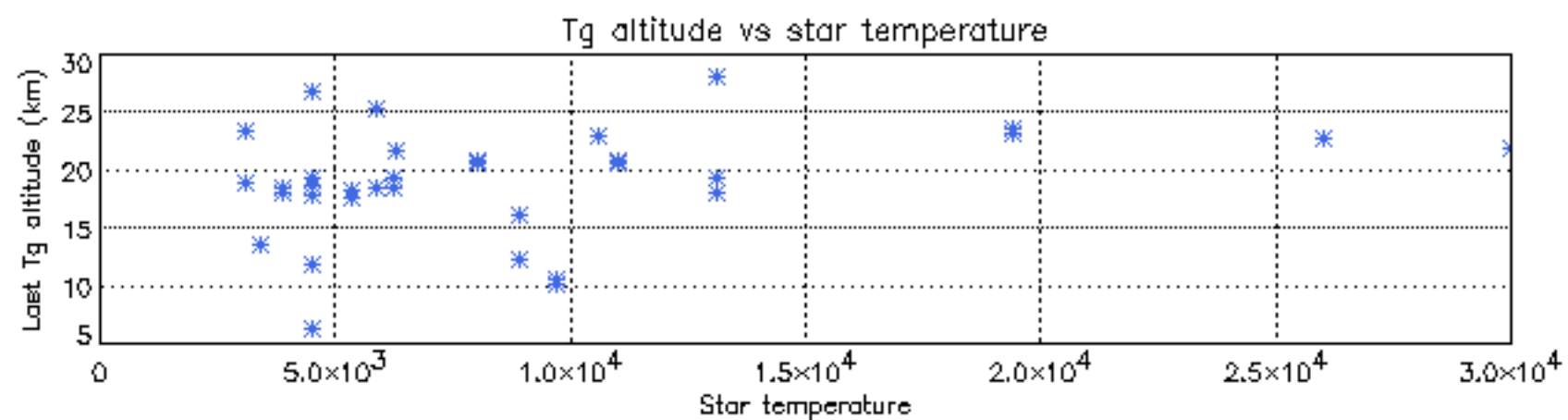
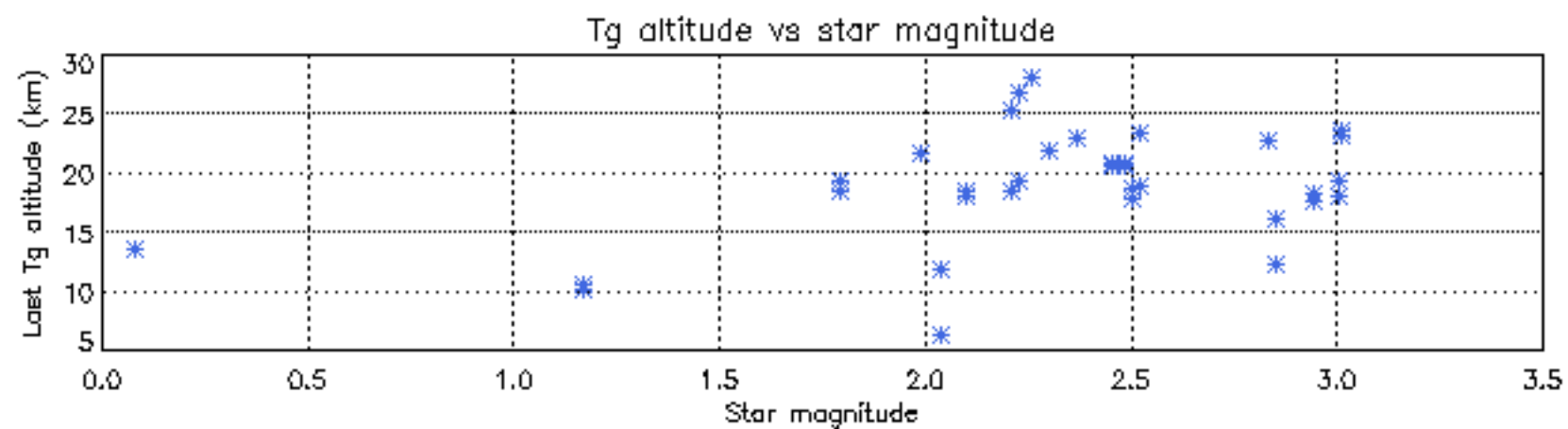
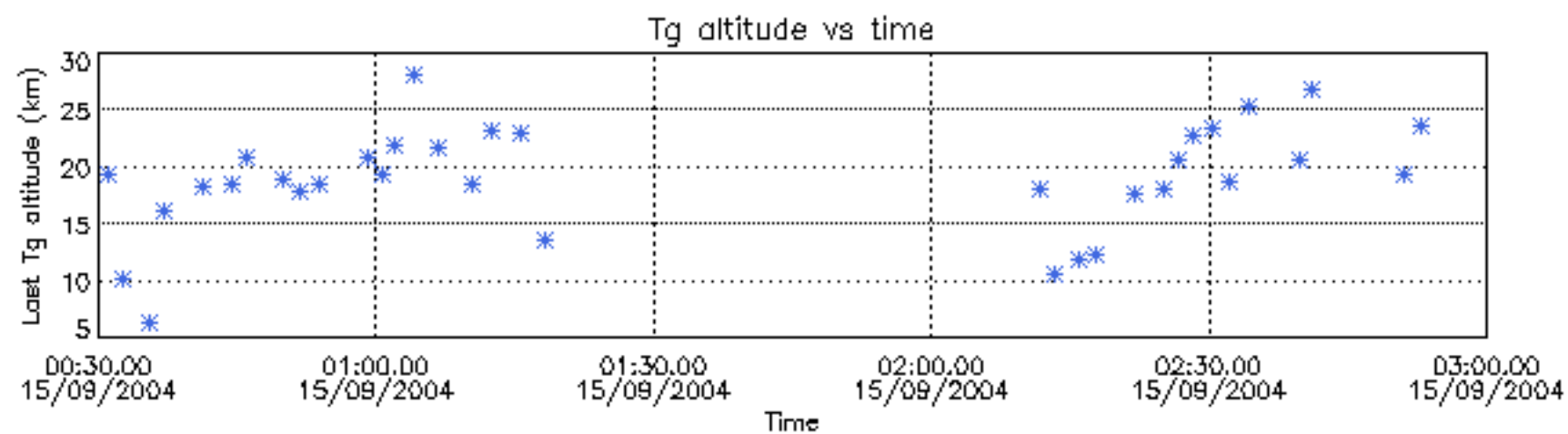
Percentage of saturation errors per profile



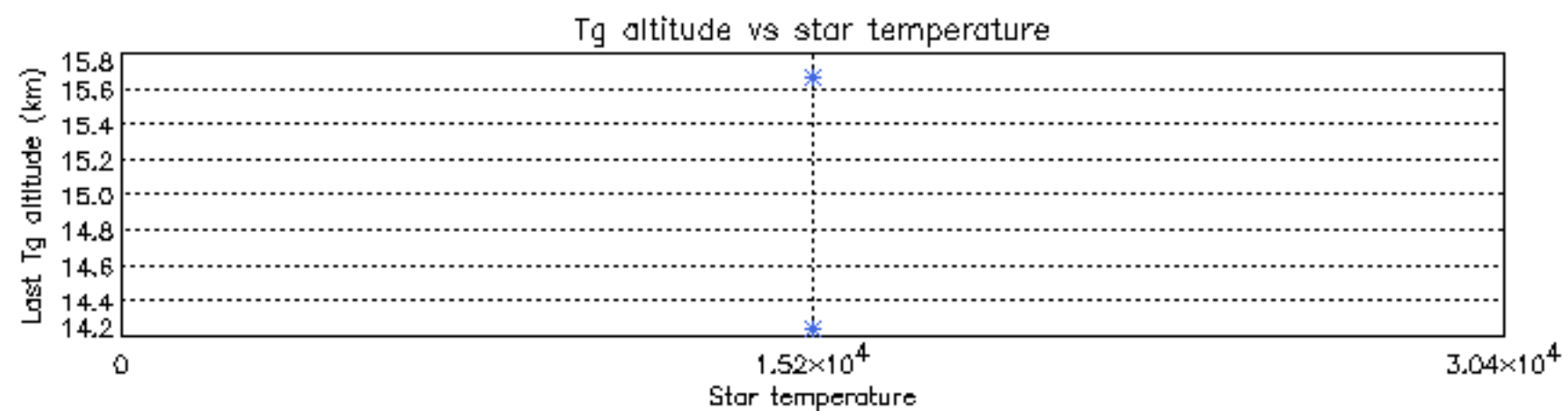
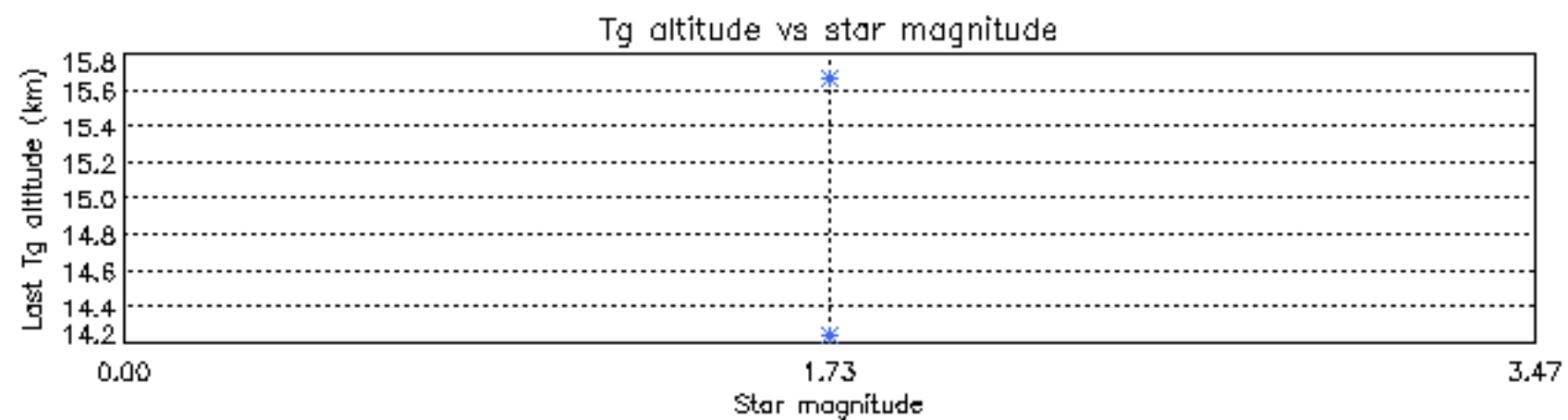
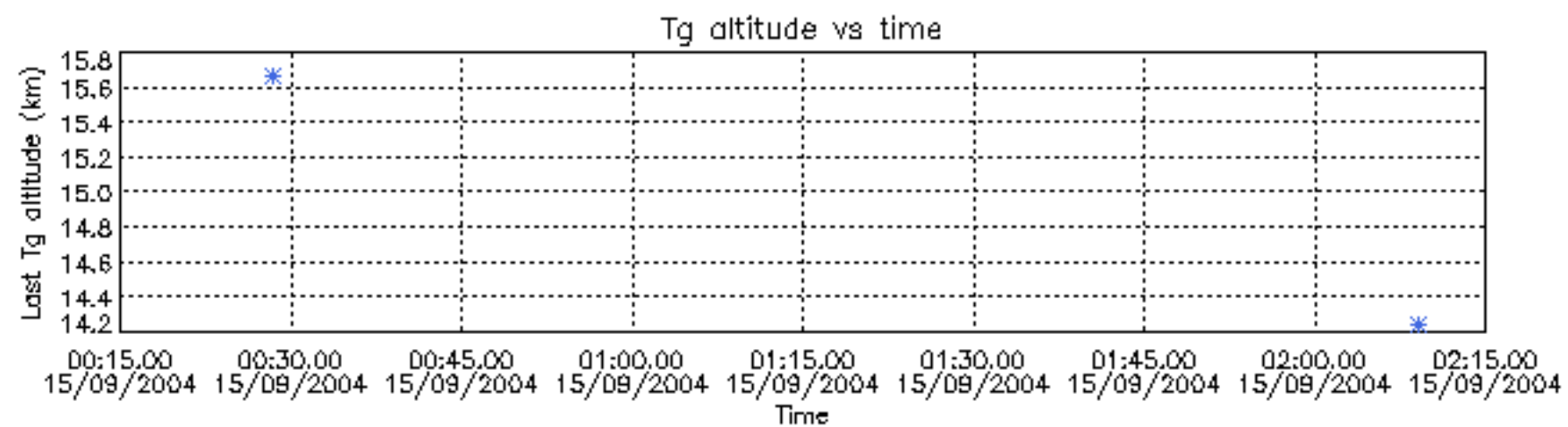
Tangent altitude at which the star is lost



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
 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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13; 1890.9; 01-SEP-2004 01:20:47; Bright; 44.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 89; 0;13097
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 4; -1658.9; 01-SEP-2004 03:42:49; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;13098
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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
23; 2073.5; 01-SEP-2004 04:45:02; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;13099
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3;	-3943.3;	19-SEP-2004	08:40:59;	Bright;	;	39.0;	61;	8Eps	Peg	;	2.10;	3900;	occ;	78;	0;	13359
4;	-3797.4;	19-SEP-2004	08:43:25;	Bright;	;	47.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	95;	0;	13359
5;	-3636.9;	19-SEP-2004	08:46:06;	Bright;	;	39.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	78;	0;	13359
6;	-3496.6;	19-SEP-2004	08:48:26;	Bright;	;	39.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	79;	0;	13359
7;	-3366.2;	19-SEP-2004	08:50:36;	Bright;	;	41.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	82;	0;	13359
8;	-3230.9;	19-SEP-2004	08:52:52;	Bright;	;	56.0;	53;	43Bet	And	;	2.05;	3300;	occ;	112;	0;	13359
9;	-3061.5;	19-SEP-2004	08:55:41;	Bright;	;	37.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	75;	0;	13359
10;	-2931.0;	19-SEP-2004	08:57:52;	Bright;	;	43.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	86;	0;	13359
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12;	-2491.8;	19-SEP-2004	09:05:11;	Bright;	;	68.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	136;	0;	13359
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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16;	-1882.6;	19-SEP-2004	09:15:20;	Bright;	;	36.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	72;	0;	13359
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19;	-1284.7;	19-SEP-2004	09:25:18;	Dark	;	156.5;	28;	12Bet	Tau	;	1.65;	15200;	occ;	313;	0;	13359
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23;	-257.3;	19-SEP-2004	09:42:25;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13359
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26;	55.2;	19-SEP-2004	09:47:38;	Dark	;	57.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	114;	0;	13360
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34;	1532.2;	19-SEP-2004	10:12:15;	Dark	;	60.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	120;	0;	13360
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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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5;	-3638.0;	19-SEP-2004	12:07:16;	Bright;	;	39.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	79;	0;	13361
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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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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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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
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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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