

GOMOS Daily Report 13-AUG-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	16AUG2004 14:42:24
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (13AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (14AUG2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	47
Nb of prods with errors	1

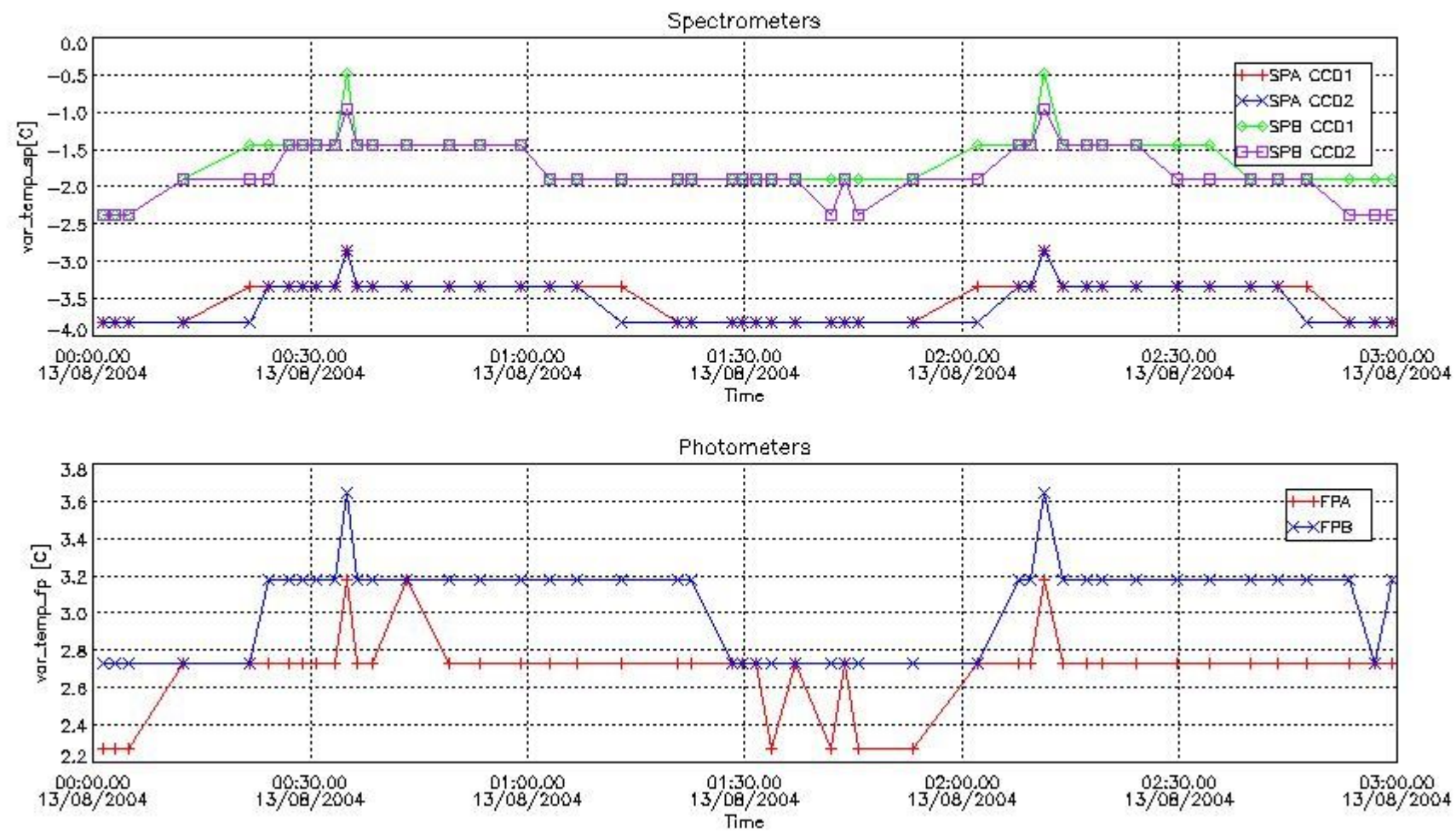
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040813_000123_000000392029_00245_12824_0019.N1	13-AUG-2004 00:01:23	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	12824	No
GOM_TRA_1PNPDE20040813_000305_000000362029_00245_12824_0020.N1	13-AUG-2004 00:03:05	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	12824	No
GOM_TRA_1PNPDE20040813_000458_000000502029_00245_12824_0021.N1	13-AUG-2004 00:04:58	Bright	49.500	110	37Del Cas	2.6780	8900.0	99	12824	No
GOM_TRA_1PNPDE20040813_001231_000002552029_00245_12824_0022.N1	13-AUG-2004 00:12:31	Bright	255.00	53	43Bet And	2.0480	3300.0	510	12824	No
GOM_TRA_1PNPDE20040813_002132_000000502029_00245_12824_0023.N1	13-AUG-2004 00:21:32	Twilight	50.000	28	12Bet Tau	1.6500	15200.	100	12824	No
GOM_TRA_1PNPDE20040813_002417_000000462029_00245_12824_0024.N1	13-AUG-2004 00:24:17	Twilight	45.500	44	24Gam Gem	1.9280	11000.	91	12824	No
GOM_TRA_1PNPDE20040813_002703_000000792029_00245_12824_0025.N1	13-AUG-2004 00:27:03	Dark	79.000	13	87Alp Tau	0.86700	3800.0	158	12824	No
GOM_TRA_1PNPDE20040813_002850_000000522029_00245_12824_0026.N1	13-AUG-2004 00:28:50	Dark	52.000	27	24Gam Ori	1.6360	26000.	104	12824	No
GOM_TRA_1PNPDE20040813_003047_000000482029_00245_12824_0027.N1	13-AUG-2004 00:30:47	Dark	47.500	30	46Eps Ori	1.6940	30000.	95	12824	No
GOM_TRA_1PNPDE20040813_003323_000000452029_00245_12824_0028.N1	13-AUG-2004 00:33:23	Dark	45.000	1	9Alp CMa	-1.4400	11000.	90	12824	No
GOM_TRA_1PNPDE20040813_003501_000000422029_00245_12824_0000.N1	13-AUG-2004 00:35:01	Dark	42.000	179	24Omi2CMa	3.0320	24000.	84	12824	No
GOM_TRA_1PNPDE20040813_003631_000000432029_00245_12824_0001.N1	13-AUG-2004 00:36:31	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	12824	No
GOM_TRA_1PNPDE20040813_003835_000000422029_00245_12824_0002.N1	13-AUG-2004 00:38:35	Dark	42.000	117	Pi Pup	2.7060	3800.0	84	12824	No
GOM_TRA_1PNPDE20040813_004318_000000522029_00245_12824_0003.N1	13-AUG-2004 00:43:18	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	12824	No
GOM_TRA_1PNPDE20040813_004905_000000542029_00246_12825_0004.N1	13-AUG-2004 00:49:05	Dark	53.500	157	The1Eri	2.9060	9300.0	107	12825	No
GOM_TRA_1PNPDE20040813_005330_000000482029_00246_12825_0005.N1	13-AUG-2004 00:53:30	Dark	47.500	9	Alp Eri	0.45300	24000.	95	12825	No
GOM_TRA_1PNPDE20040813_005905_000000572029_00246_12825_0006.N1	13-AUG-2004 00:59:05	Twilight	56.500	84	Alp Phe	2.3970	4500.0	113	12825	No
GOM_TRA_1PNPDE20040813_010259_000000462029_00246_12825_0007.N1	13-AUG-2004 01:02:59	Bright	45.500	31	Alp Gru	1.7340	15200.	91	12825	No
GOM_TRA_1PNPDE20040813_010656_000000622029_00246_12825_0008.N1	13-AUG-2004 01:06:56	Bright	61.500	18	24Alp PsA	1.1660	9700.0	123	12825	No
GOM_TRA_1PNPDE20040813_011249_000000462029_00246_12825_0009.N1	13-AUG-2004 01:12:49	Bright	45.500	142	49Del Cap	2.8500	8900.0	91	12825	No
GOM_TRA_1PNPDE20040813_012042_000000392029_00246_12825_0012.N1	13-AUG-2004 01:20:42	Bright	38.500	11	53Alp Aql	0.76500	8000.0	77	12825	No
GOM_TRA_1PNPDE20040813_012229_000000392029_00246_12825_0013.N1	13-AUG-2004 01:22:29	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	12825	No
GOM_TRA_1PNPDE20040813_012813_000000432029_00246_12825_0014.N1	13-AUG-2004 01:28:13	Bright	43.000	92	53Eps Cyg	2.5000	4500.0	86	12825	No
GOM_TRA_1PNPDE20040813_012945_000000412029_00246_12825_0015.N1	13-AUG-2004 01:29:45	Bright	41.000	66	37Gam Cyg	2.2080	5900.0	82	12825	No
GOM_TRA_1PNPDE20040813_013125_000000412029_00246_12825_0016.N1	13-AUG-2004 01:31:25	Bright	41.000	19	50Alp Cyg	1.2460	10500.	82	12825	No
GOM_TRA_1PNPDE20040813_013342_000000412029_00246_12825_0017.N1	13-AUG-2004 01:33:42	Bright	40.500	69	33Gam Dra	2.2310	3800.0	81	12825	No
GOM_TRA_1PNPDE20040813_013649_000000402029_00246_12825_0018.N1	13-AUG-2004 01:36:49	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	12825	No
GOM_TRA_1PNPDE20040813_014159_000000392029_00246_12825_0019.N1	13-AUG-2004 01:41:59	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	12825	No
GOM_TRA_1PNPDE20040813_014340_000000382029_00246_12825_0020.N1	13-AUG-2004 01:43:40	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	12825	No
GOM_TRA_1PNPDE20040813_014534_000000502029_00246_12825_0021.N1	13-AUG-2004 01:45:34	Bright	49.500	110	37Del Cas	2.6780	8900.0	99	12825	No
GOM_TRA_1PNPDE20040813_015304_000002552029_00246_12825_0022.N1	13-AUG-2004 01:53:04	Bright	255.00	53	43Bet And	2.0480	3300.0	510	12825	No
GOM_TRA_1PNPDE20040813_020209_000000492029_00246_12825_0024.N1	13-AUG-2004 02:02:09	Twilight	49.000	28	12Bet Tau	1.6500	15200.	98	12825	No
GOM_TRA_1PNPDE20040813_020740_000000732029_00246_12825_0026.N1	13-AUG-2004 02:07:40	Dark	72.500	13	87Alp Tau	0.86700	3800.0	145	12825	No
GOM_TRA_1PNPDE20040813_020927_000000512029_00246_12825_0027.N1	13-AUG-2004 02:09:27	Dark	50.500	27	24Gam Ori	1.6360	26000.	101	12825	No
GOM_TRA_1PNPDE20040813_021123_000000492029_00246_12825_0000.N1	13-AUG-2004 02:11:23	Dark	49.000	30	46Eps Ori	1.6940	30000.	98	12825	Yes
GOM_TRA_1PNPDE20040813_021359_000000452029_00246_12825_0001.N1	13-AUG-2004 02:13:59	Dark	45.000	1	9Alp CMa	-1.4400	11000.	90	12825	No
GOM_TRA_1PNPDE20040813_021707_000000412029_00246_12825_0002.N1	13-AUG-2004 02:17:07	Dark	41.000	23	21Eps CMa	1.5020	26000.	82	12825	No
GOM_TRA_1PNPDE20040813_021911_000000432029_00246_12825_0003.N1	13-AUG-2004 02:19:11	Dark	42.500	117	Pi Pup	2.7060	3800.0	85	12825	No
GOM_TRA_1PNPDE20040813_022354_000000482029_00246_12825_0004.N1	13-AUG-2004 02:23:54	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	12825	No
GOM_TRA_1PNPDE20040813_022943_000000532029_00247_12826_0005.N1	13-AUG-2004 02:29:43	Dark	52.500	157	The1Eri	2.9060	9300.0	105	12826	No
GOM_TRA_1PNPDE20040813_023407_000000462029_00247_12826_0006.N1	13-AUG-2004 02:34:07	Dark	46.000	9	Alp Eri	0.45300	24000.	92	12826	No
GOM_TRA_1PNPDE20040813_023944_000000612029_00247_12826_0007.N1	13-AUG-2004 02:39:44	Twilight	61.000	84	Alp Phe	2.3970	4500.0	122	12826	No
GOM_TRA_1PNPDE20040813_024335_000000492029_00247_12826_0008.N1	13-AUG-2004 02:43:35	Bright	48.500	31	Alp Gru	1.7340	15200.	97	12826	No
GOM_TRA_1PNPDE20040813_024732_000000592029_00247_12826_0009.N1	13-AUG-2004 02:47:32	Bright	59.000	18	24Alp PsA	1.1660	9700.0	118	12826	No
GOM_TRA_1PNPDE20040813_025325_000000462029_00247_12826_0010.N1	13-AUG-2004 02:53:25	Bright	45.500	142	49Del Cap	2.8500	8900.0	91	12826	No
GOM_TRA_1PNPDE20040813_025659_000000452029_00247_12826_0011.N1	13-AUG-2004 02:56:59	Bright	44.500	154	22Bet Aqr	2.8990	5700.0	89	12826	No
GOM_TRA_1PNPDE20040813_025911_000000532029_00247_12826_0012.N1	13-AUG-2004 02:59:11	Bright	52.500	162	34Alp Aqr	2.9440	5350.0	105	12826	No

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



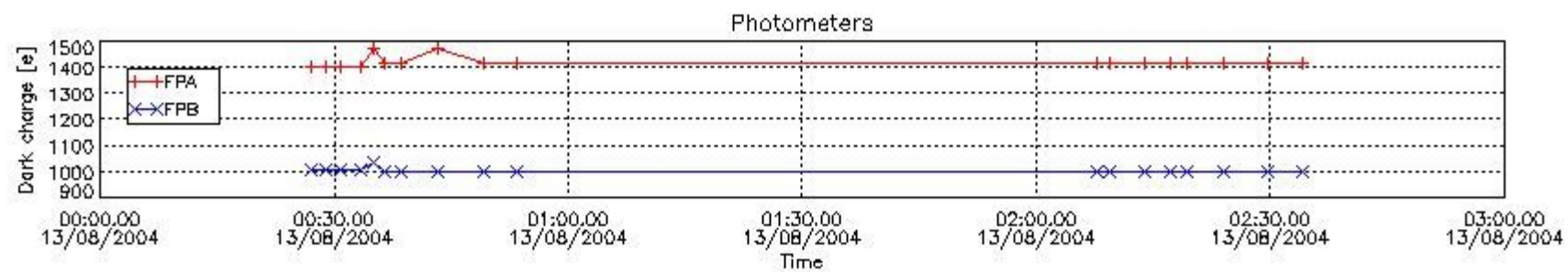
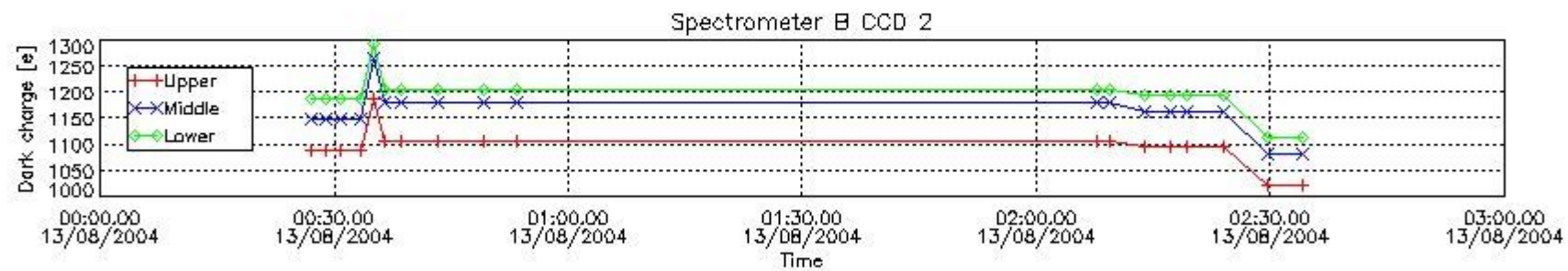
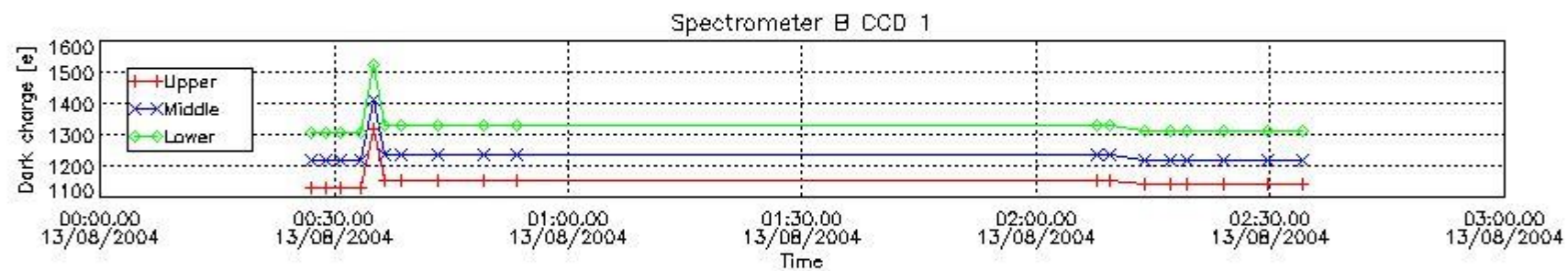
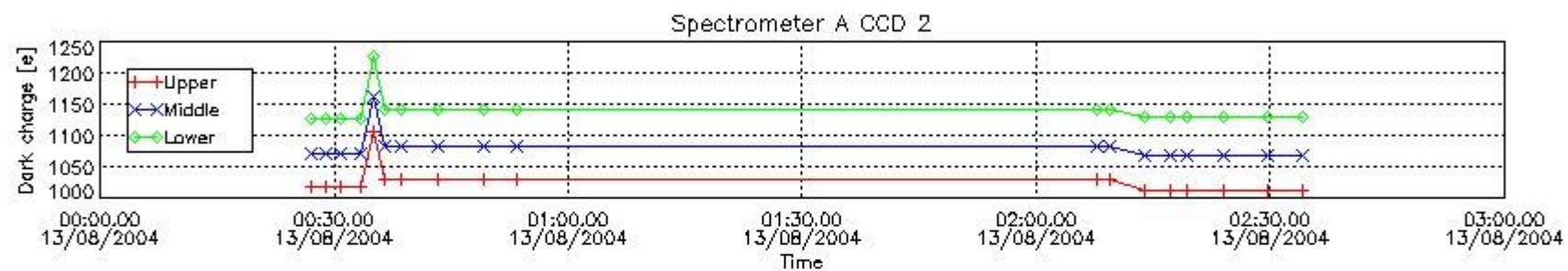
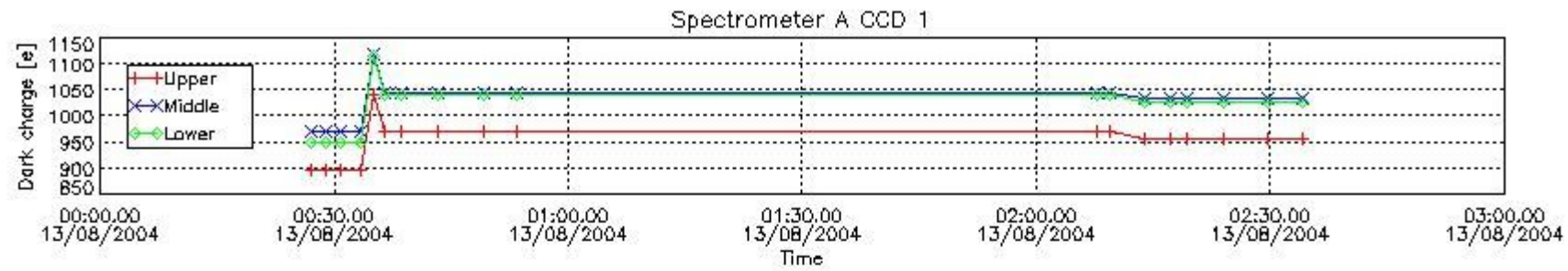
4. Overview of dark signal processing per product

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



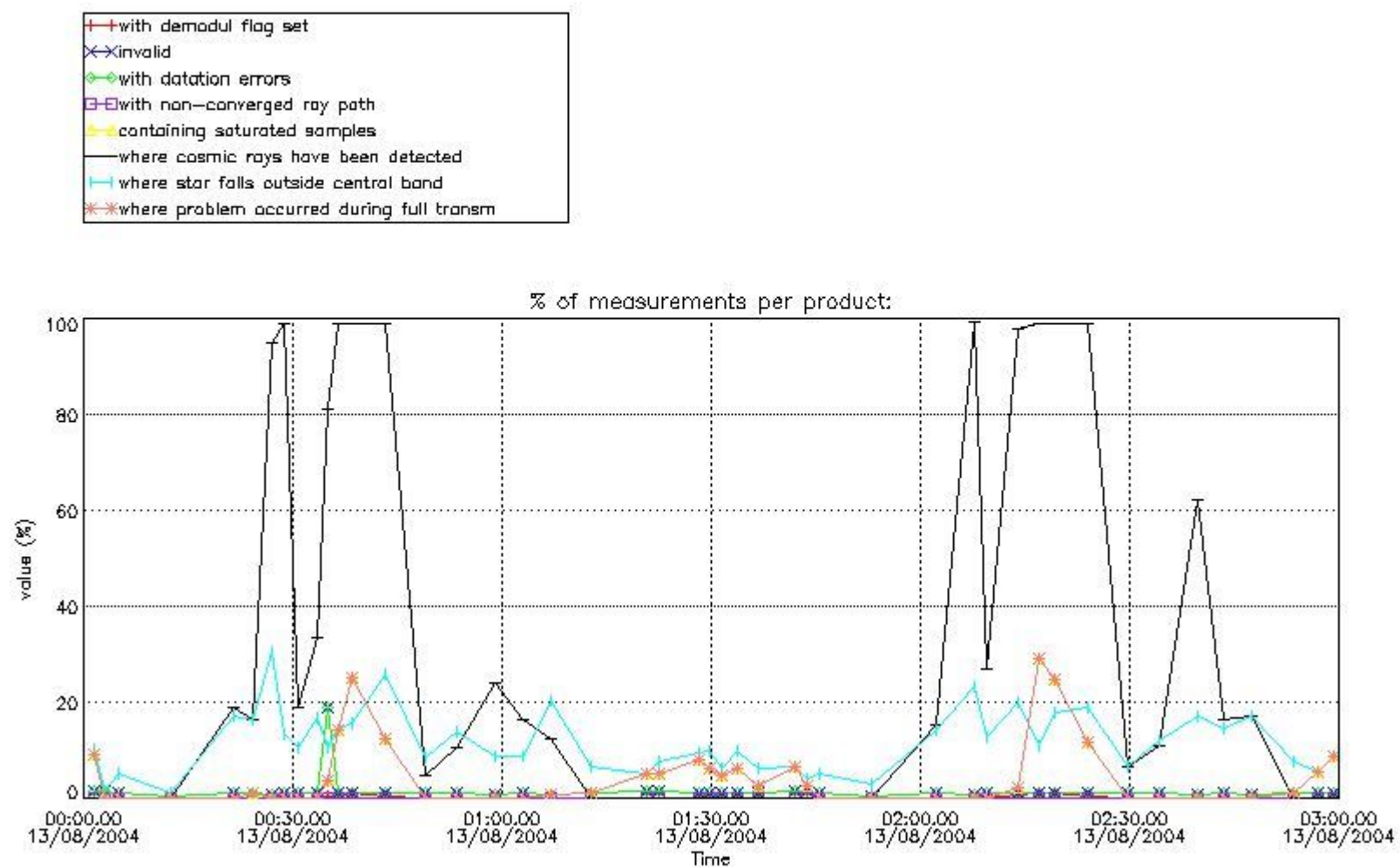
5. Demodulation flag and quality information monitoring

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.

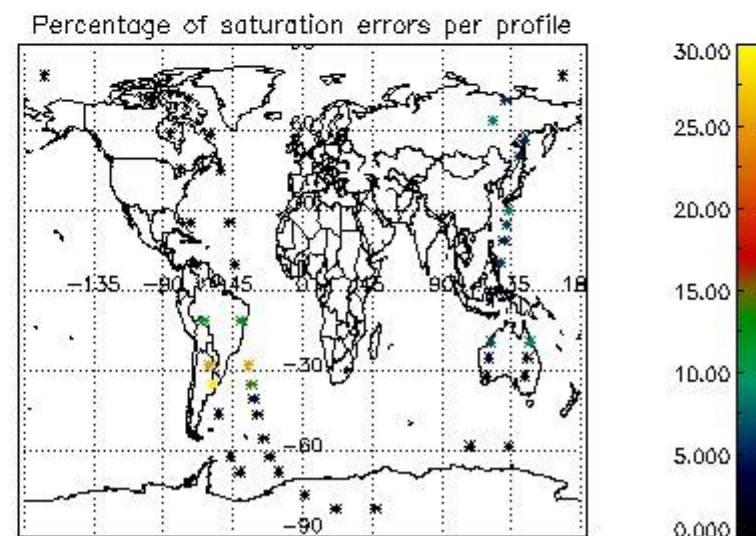
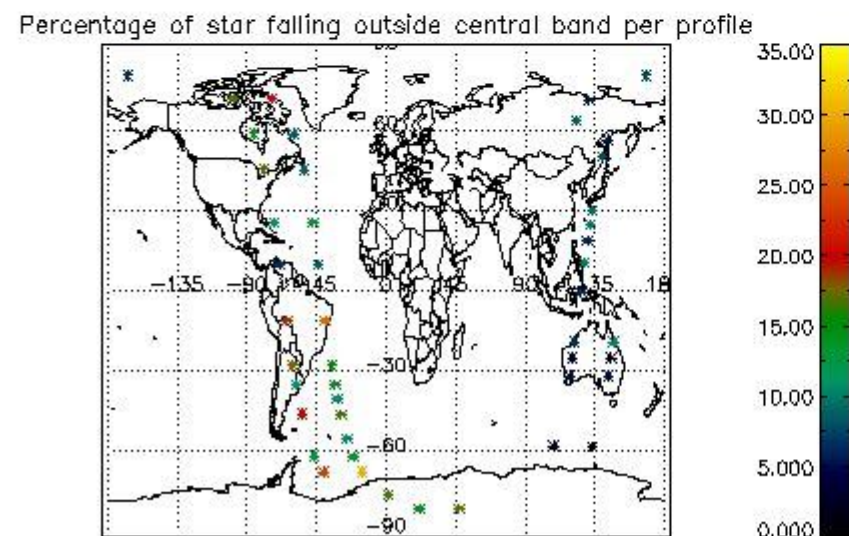
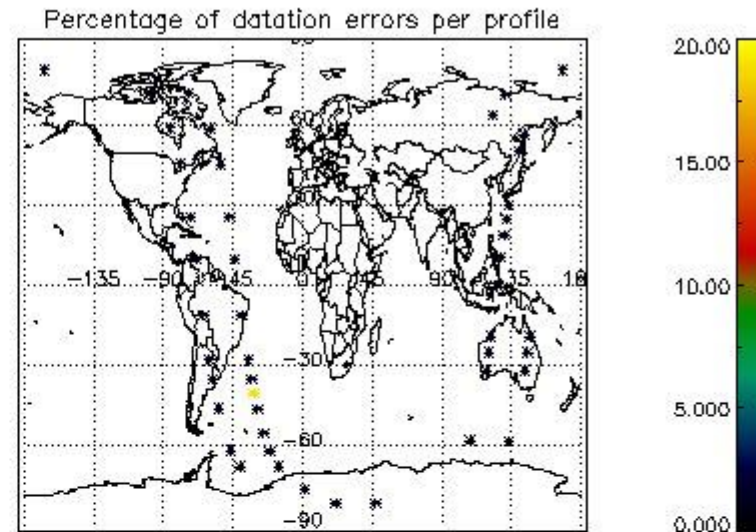
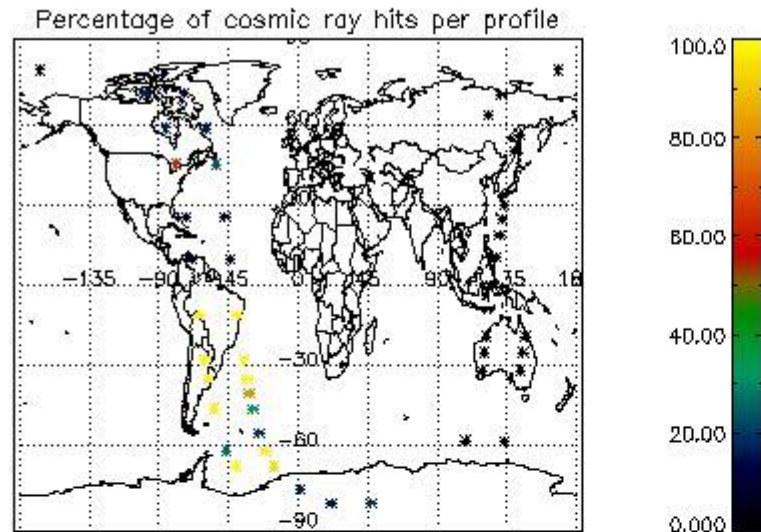
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.0870 %
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)



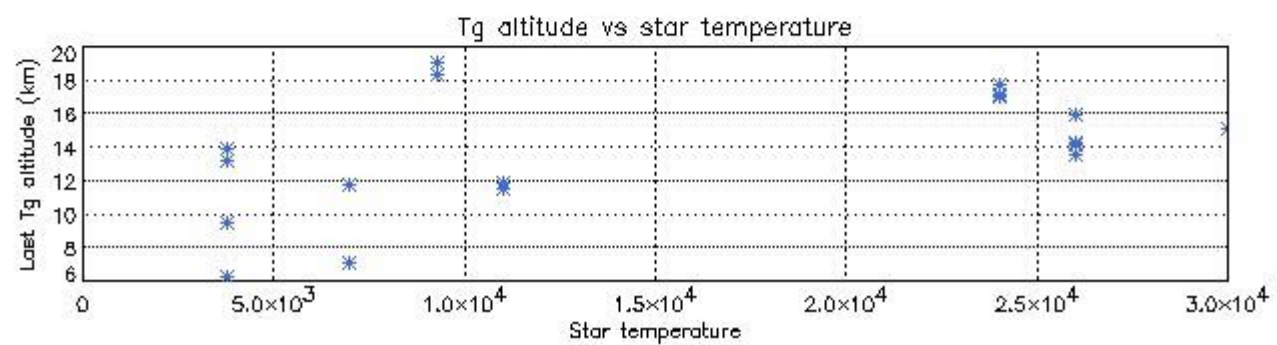
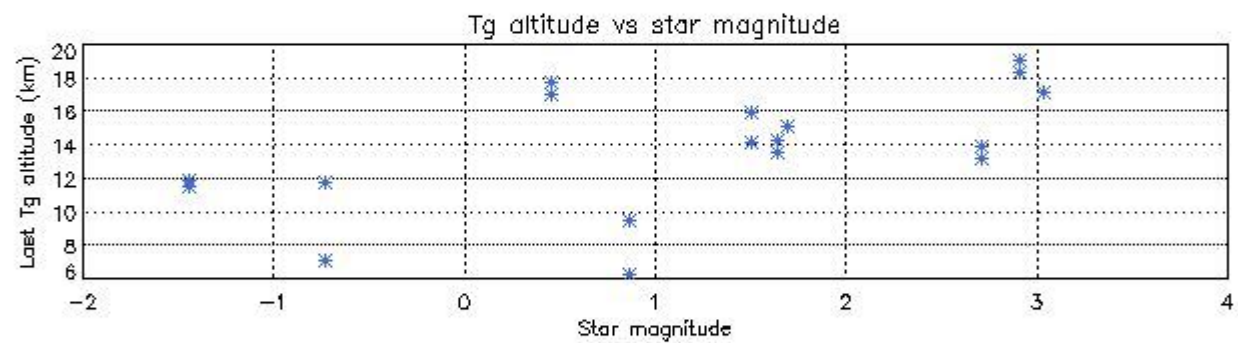
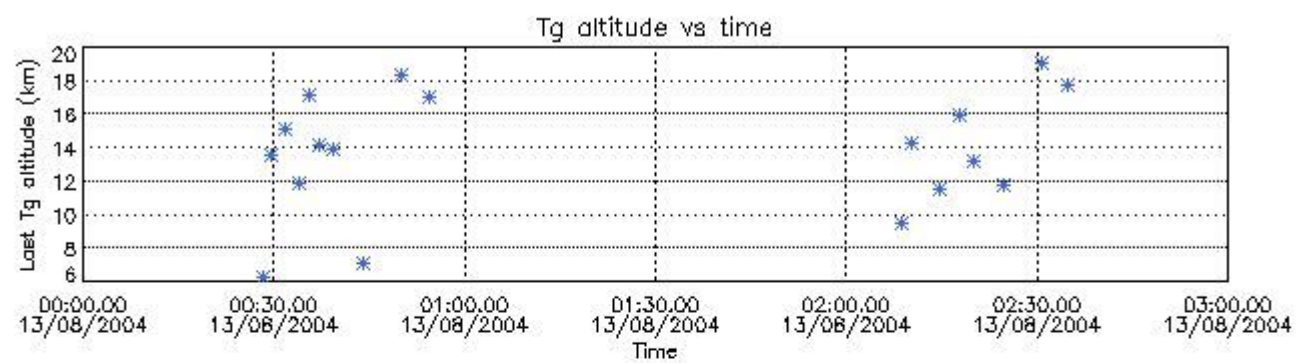
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.731	19.548	14.076
St. deviation:	3.6466	3.1887	2.5341
Maximum:	19.075	25.629	18.508
Minimum:	6.2419	11.441	12.272
Number of data:	18.000	23.000	5.0000

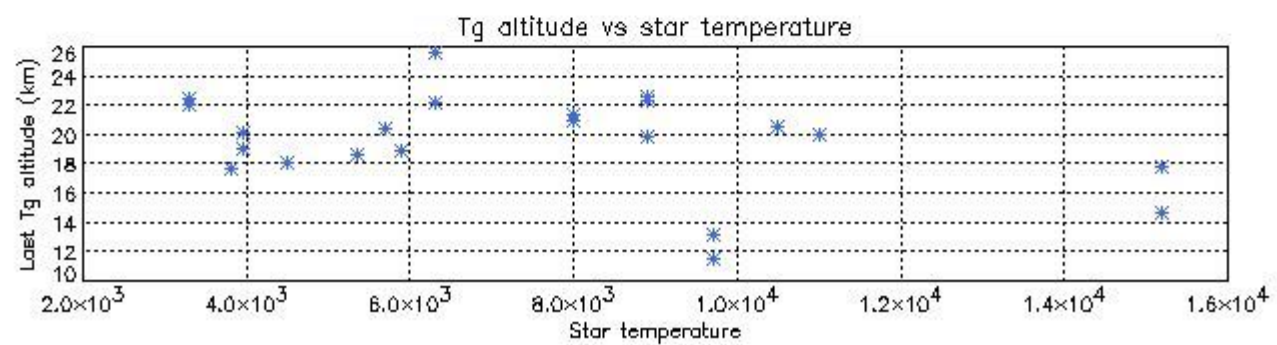
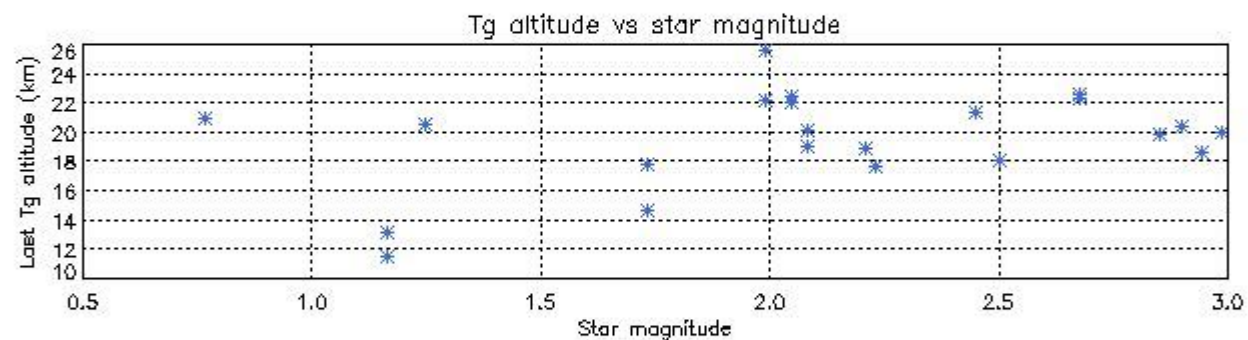
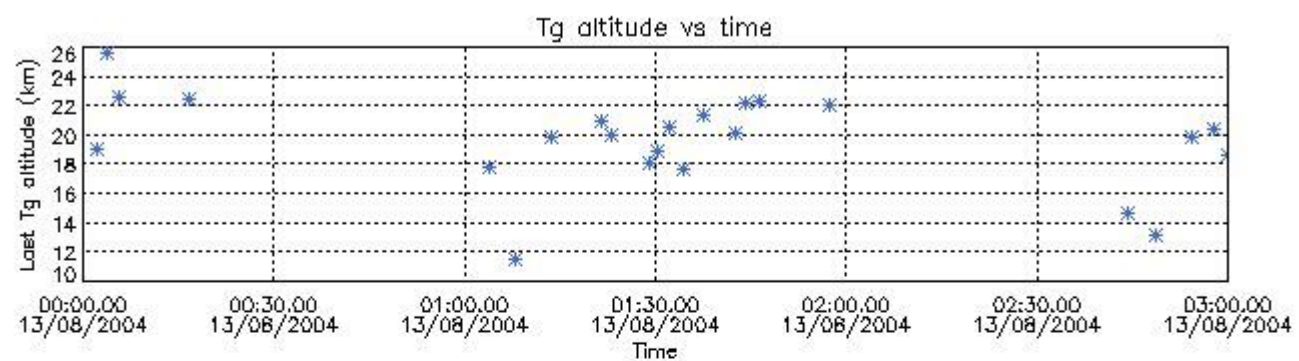
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



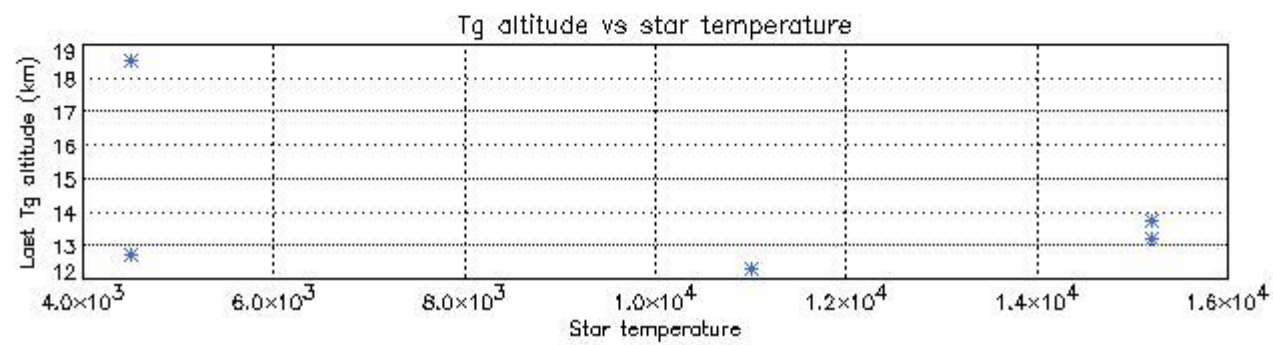
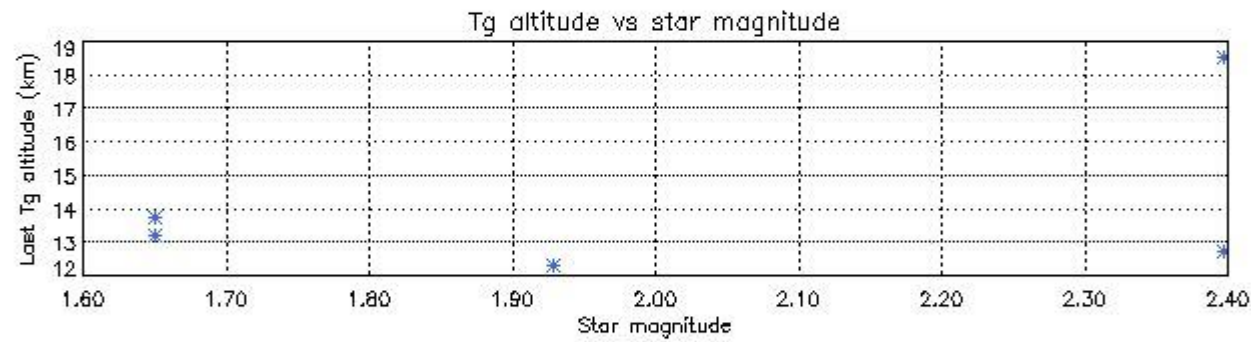
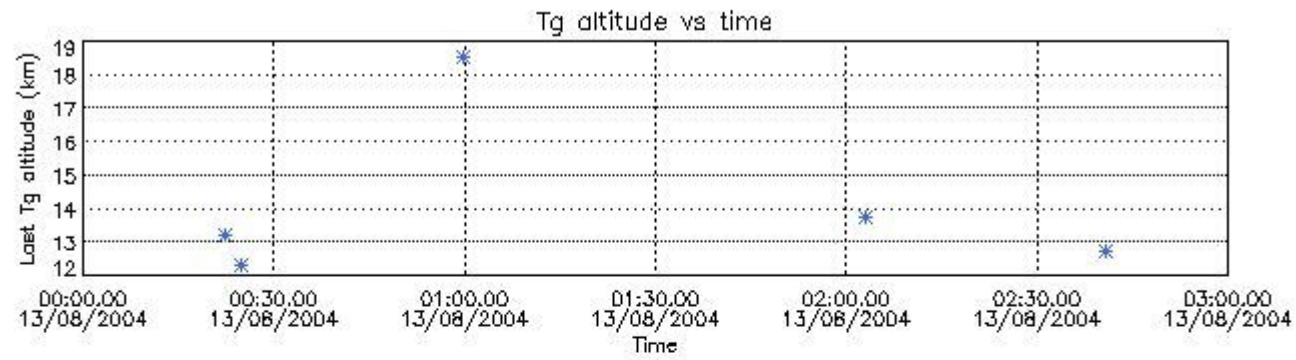
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

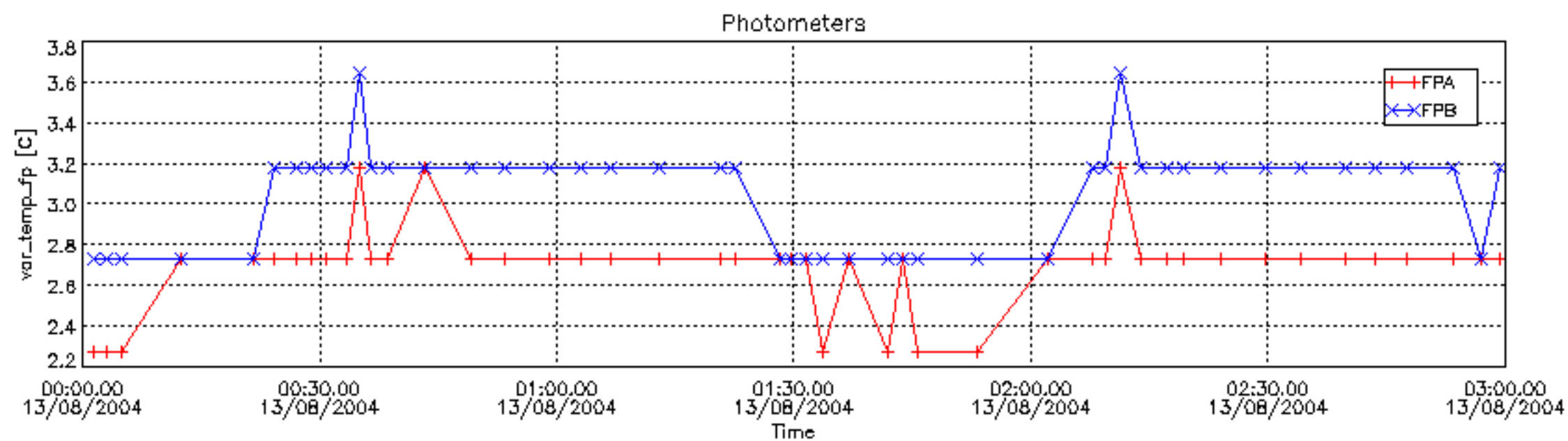
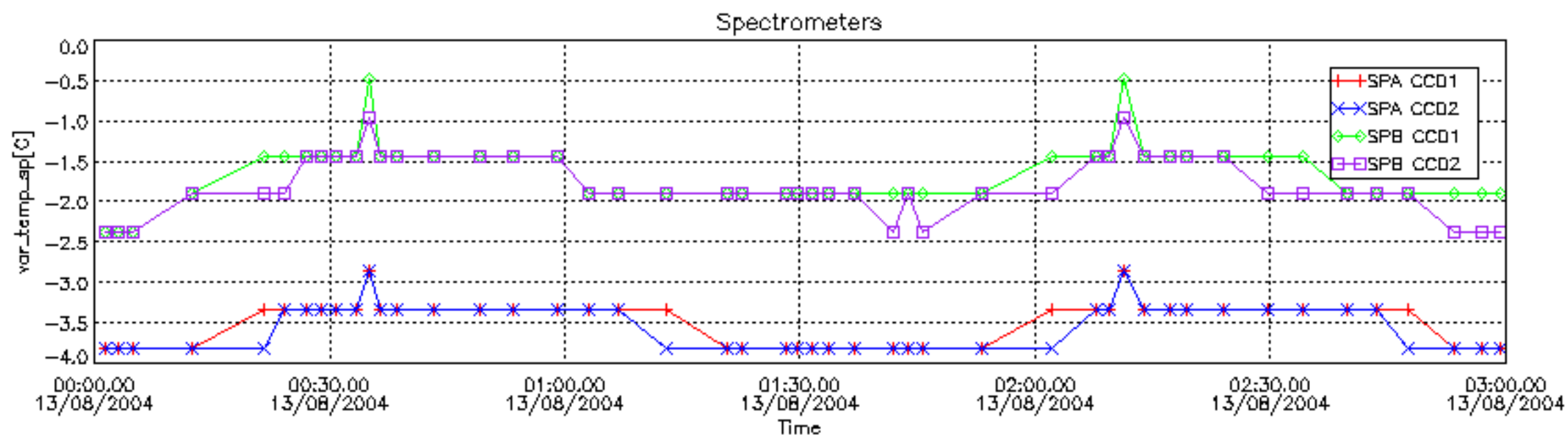
Tangent altitude at which the star is lost

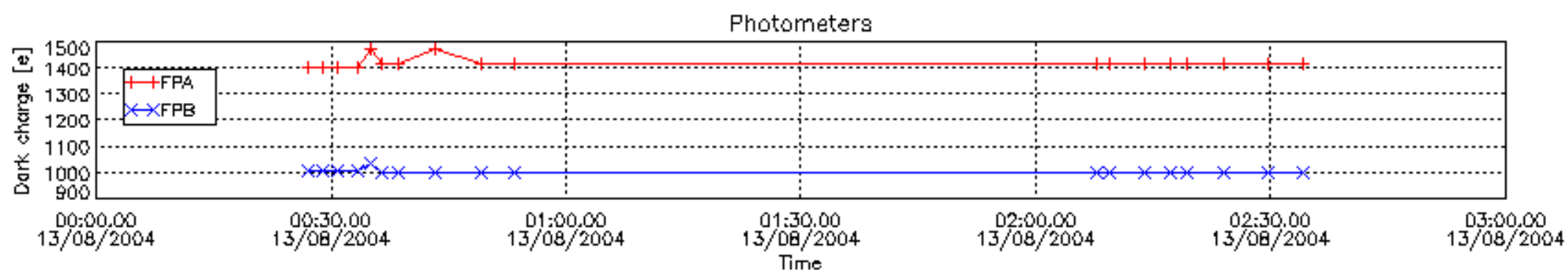
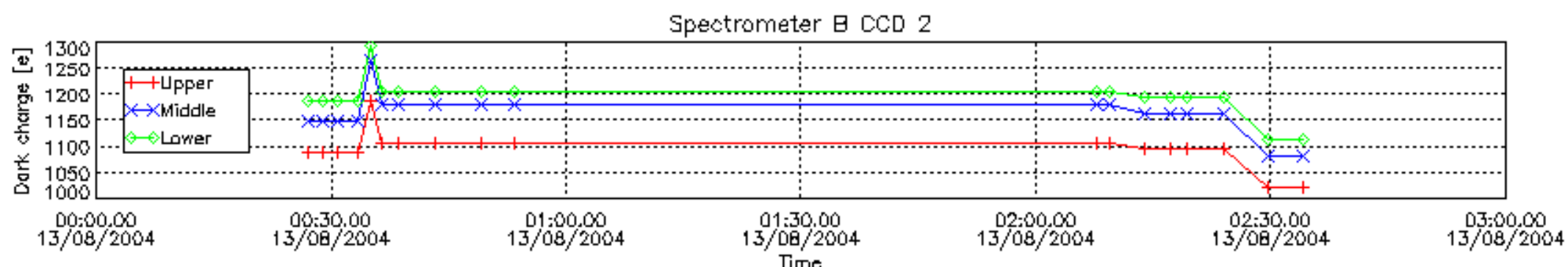
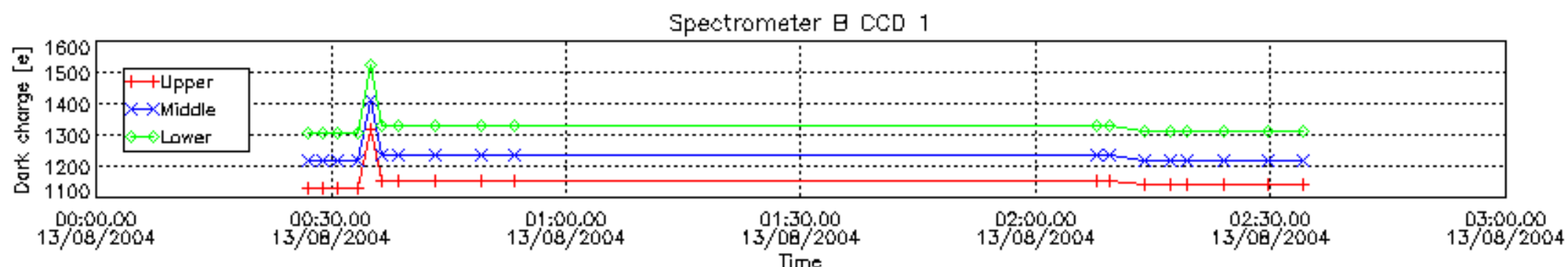
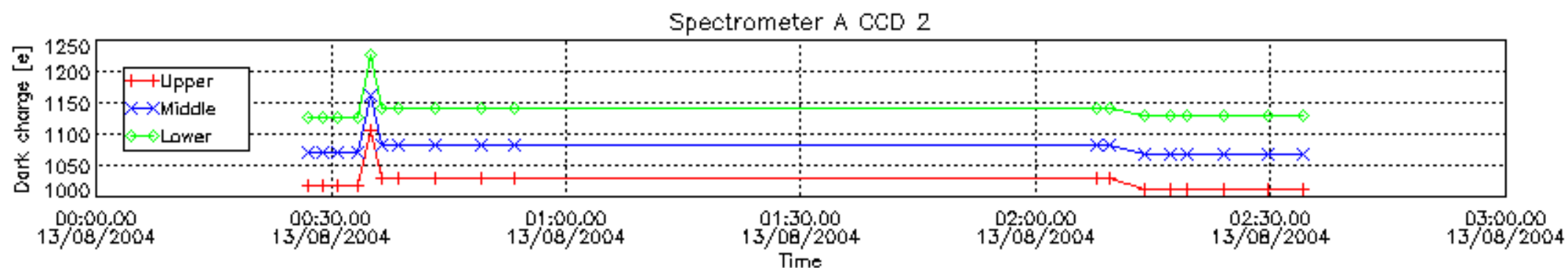
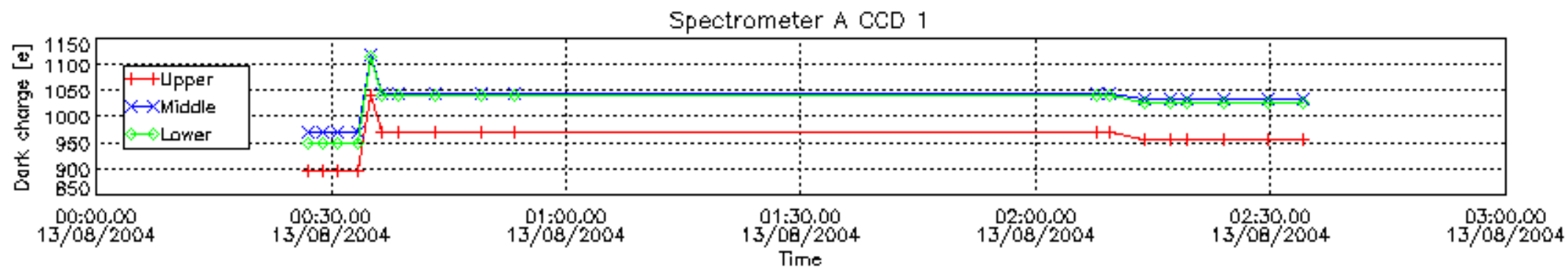


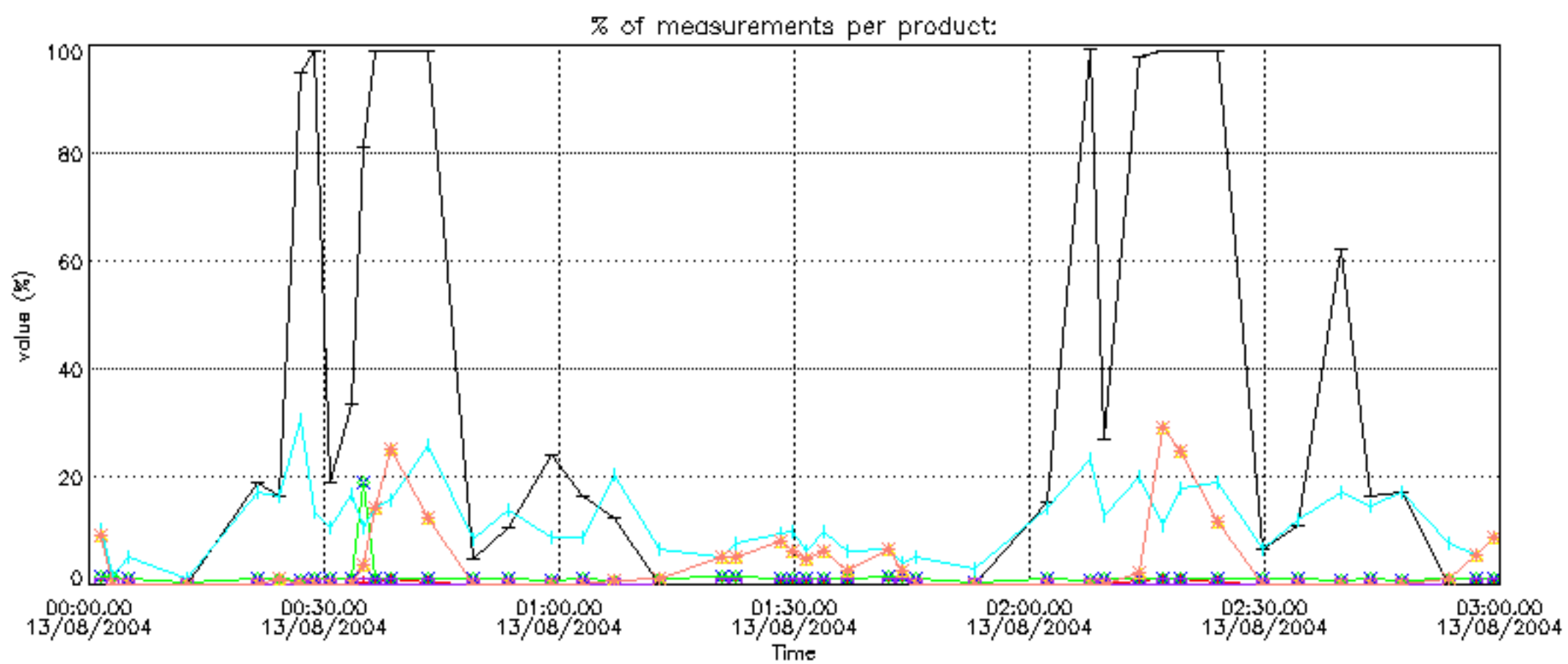
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

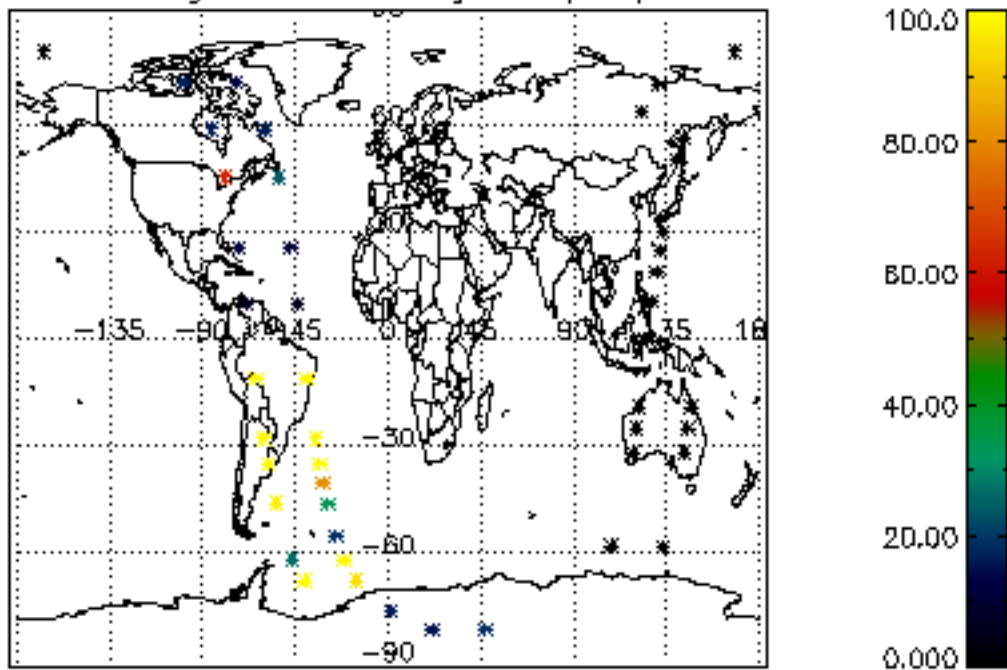
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.8	1447.3	1462.2	1447.6
St. deviation:	3.9538	5.3489	6.0076	6.5959
Maximum:	1603.0	1527.0	1507.0	1499.0
Minimum:	1447.0	1442.0	1437.0	1424.0
Number of data:	22800.	22800.	33850.	33850.



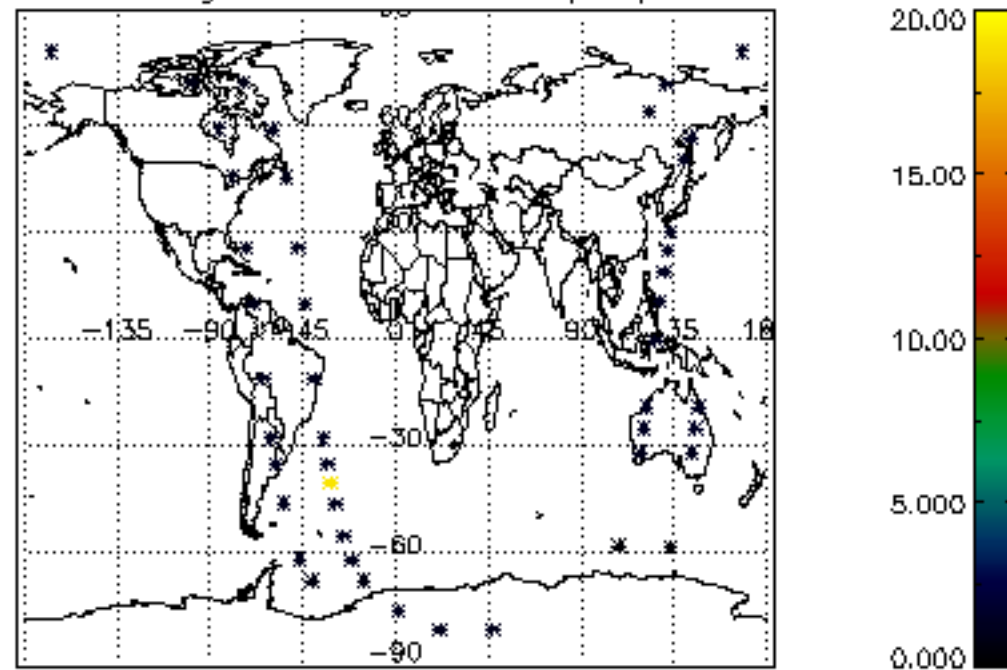




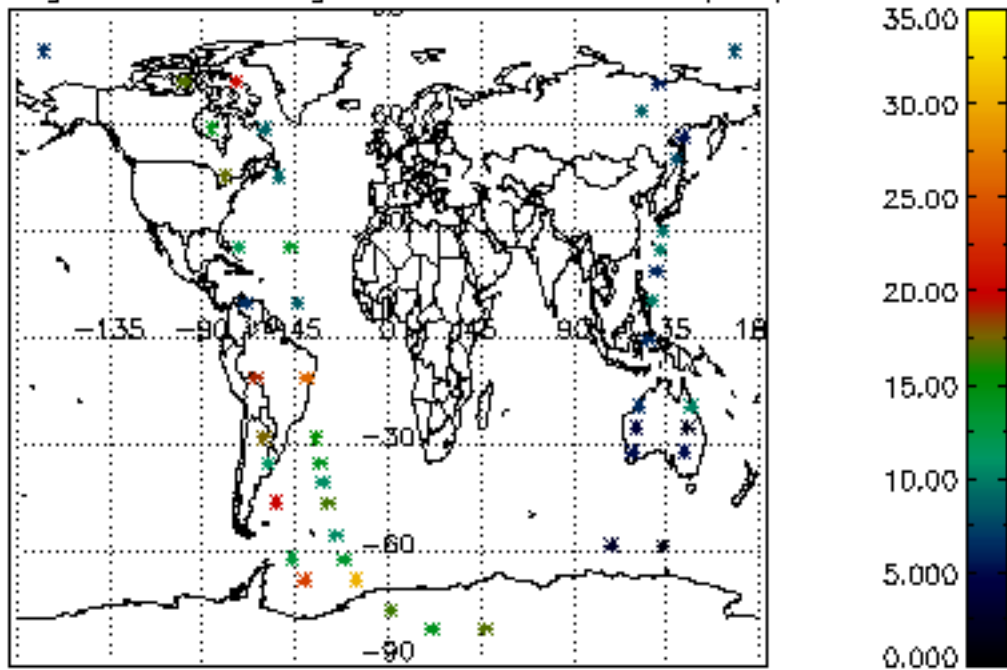
Percentage of cosmic ray hits per profile



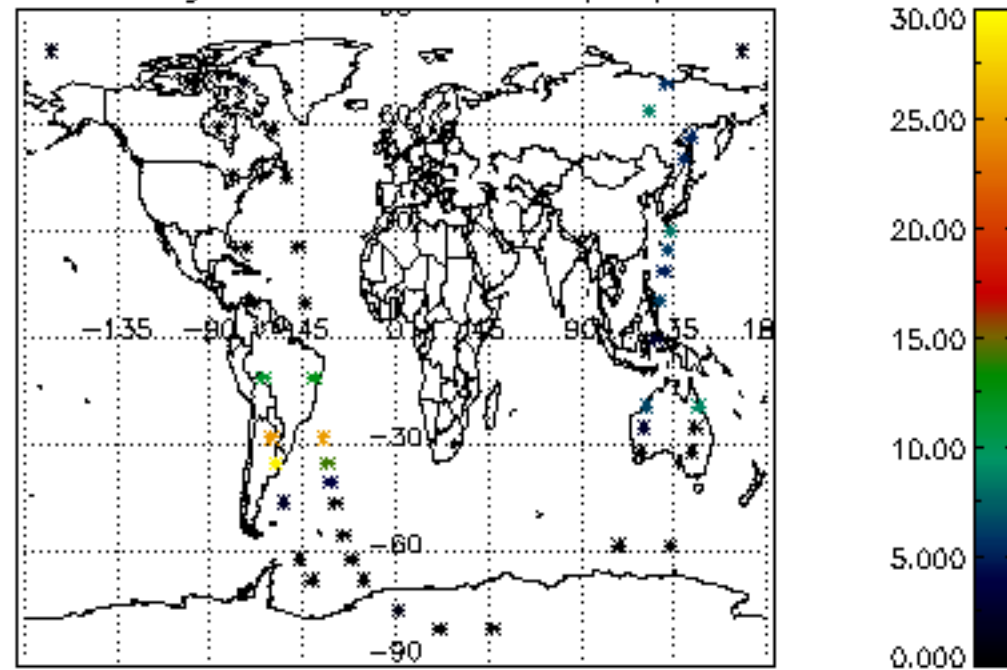
Percentage of datation errors per profile



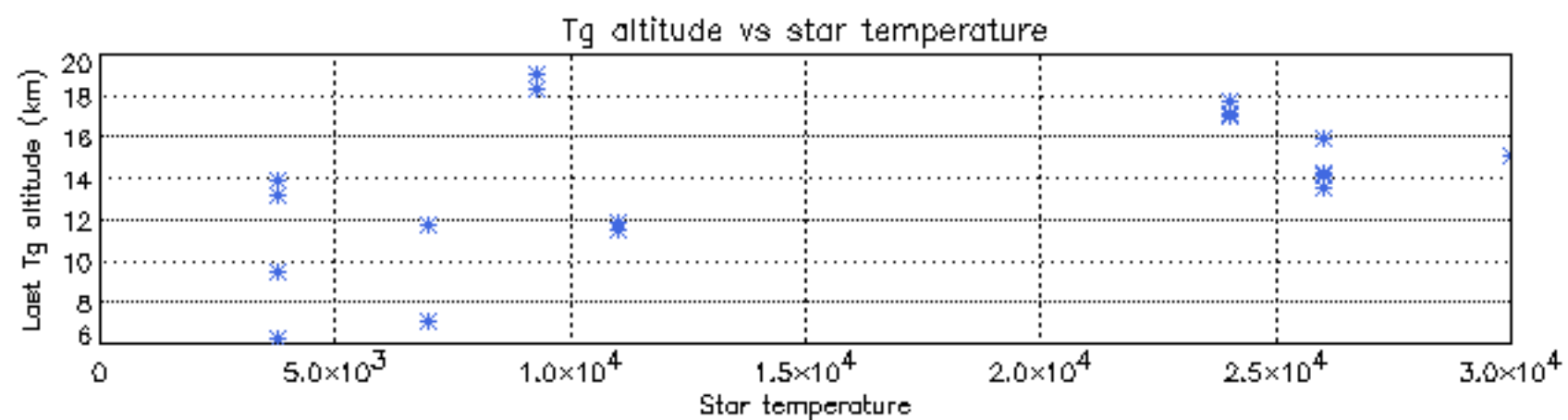
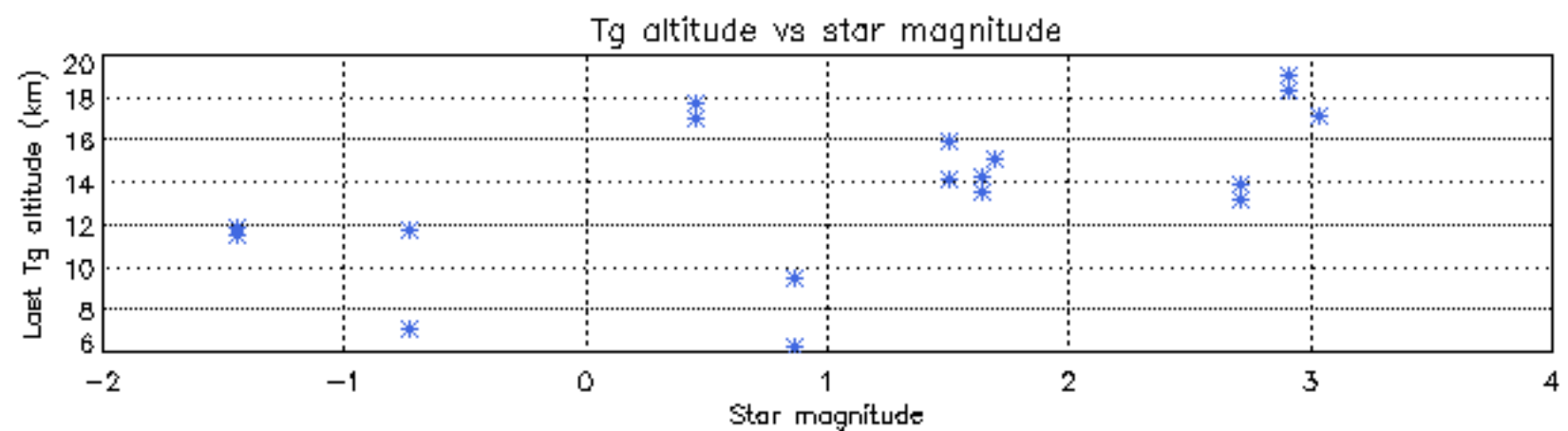
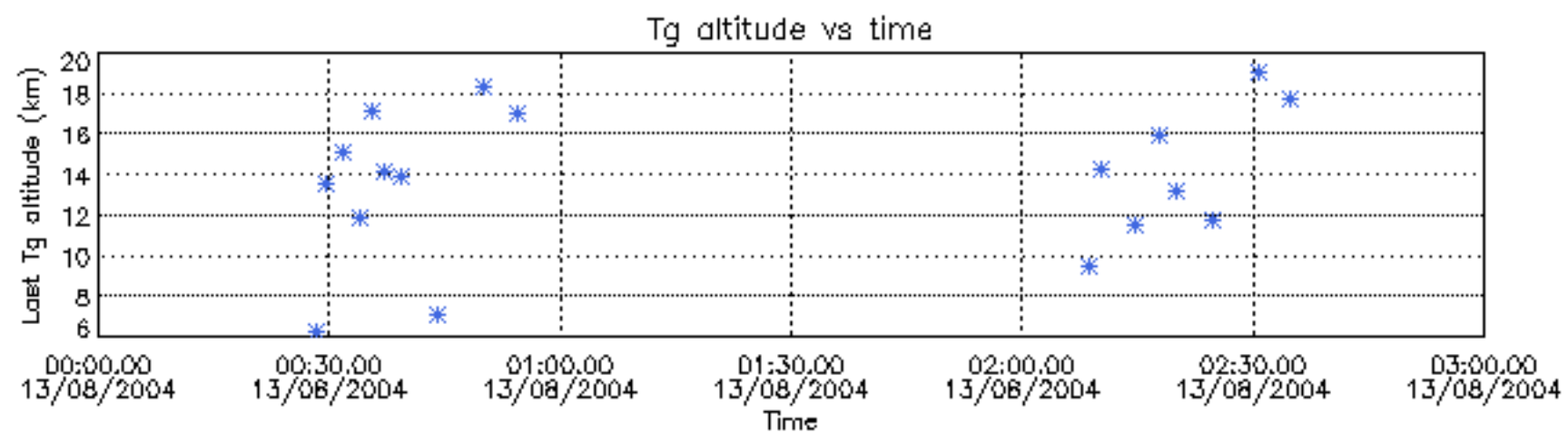
Percentage of star falling outside central band per profile



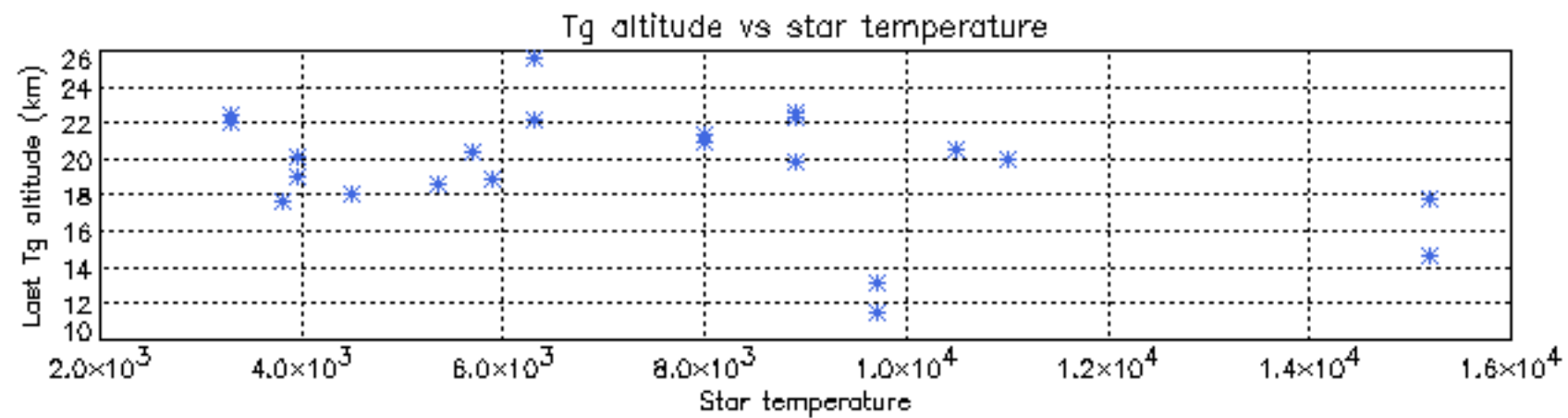
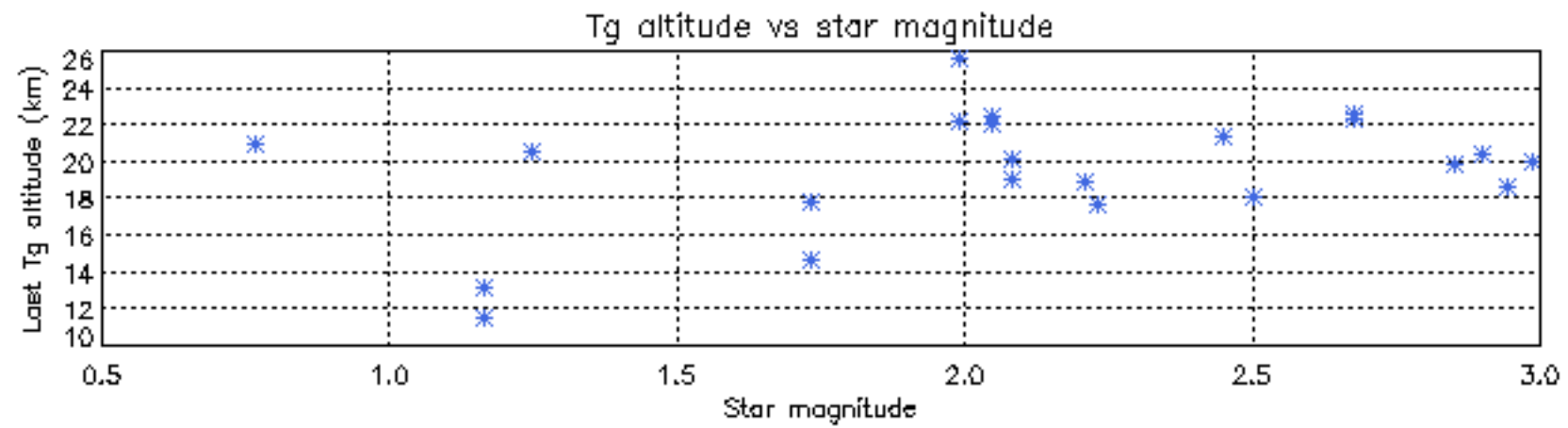
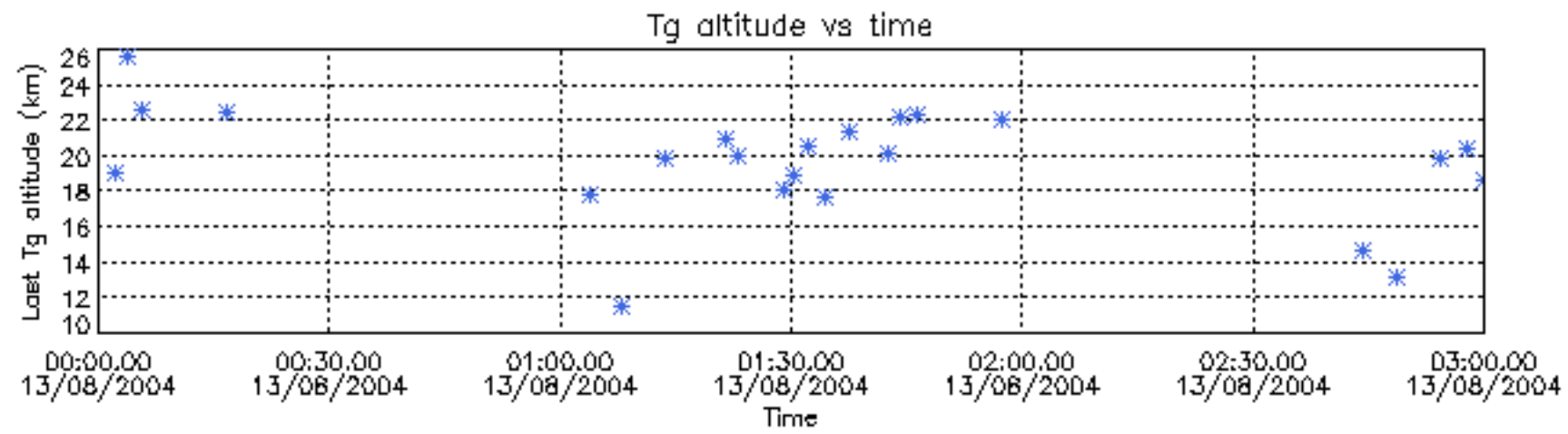
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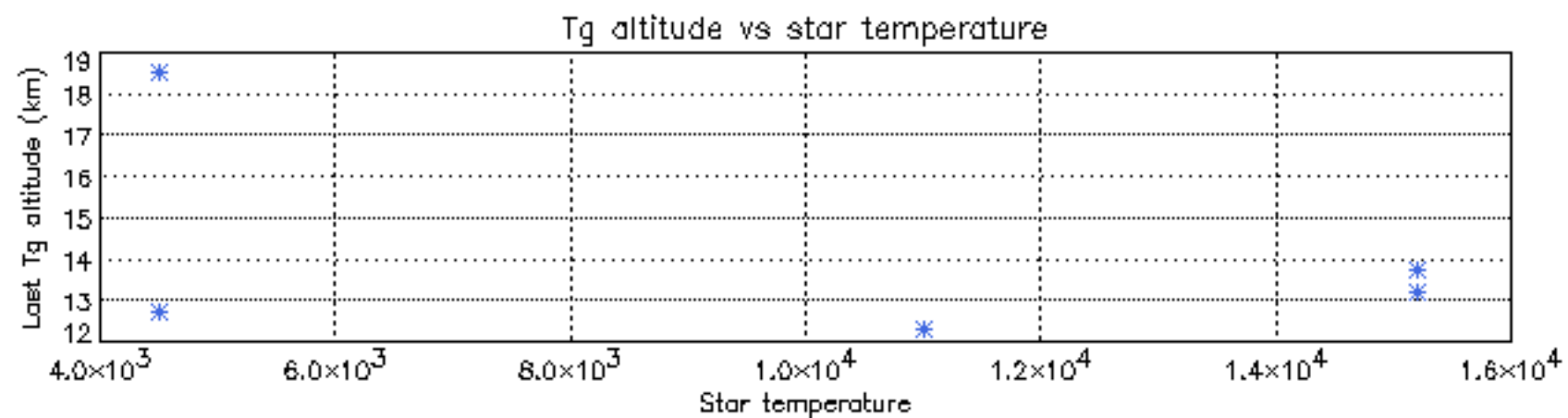
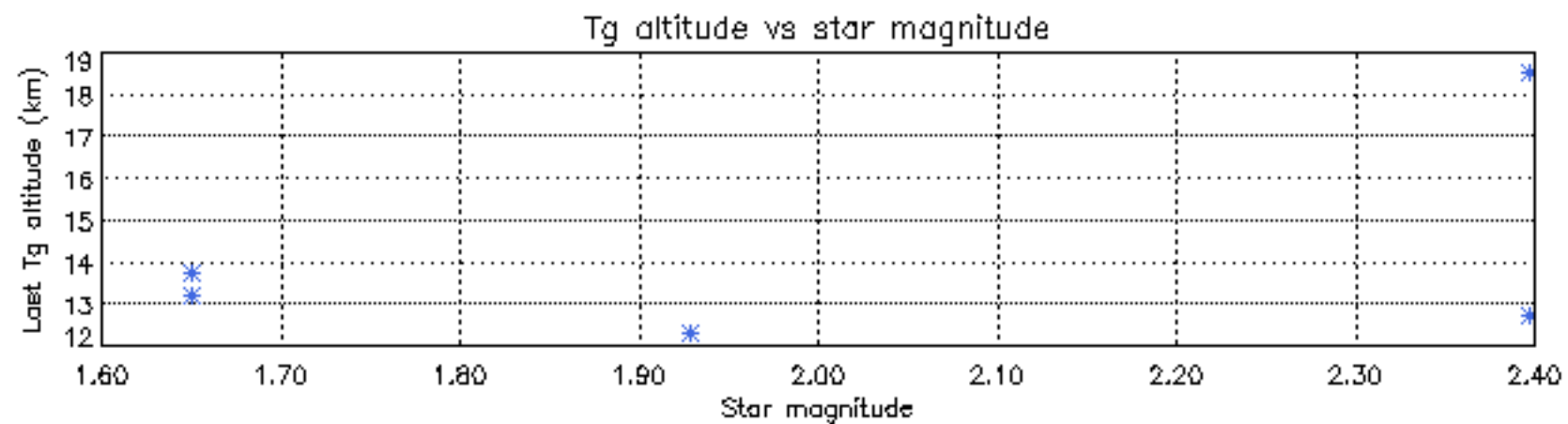
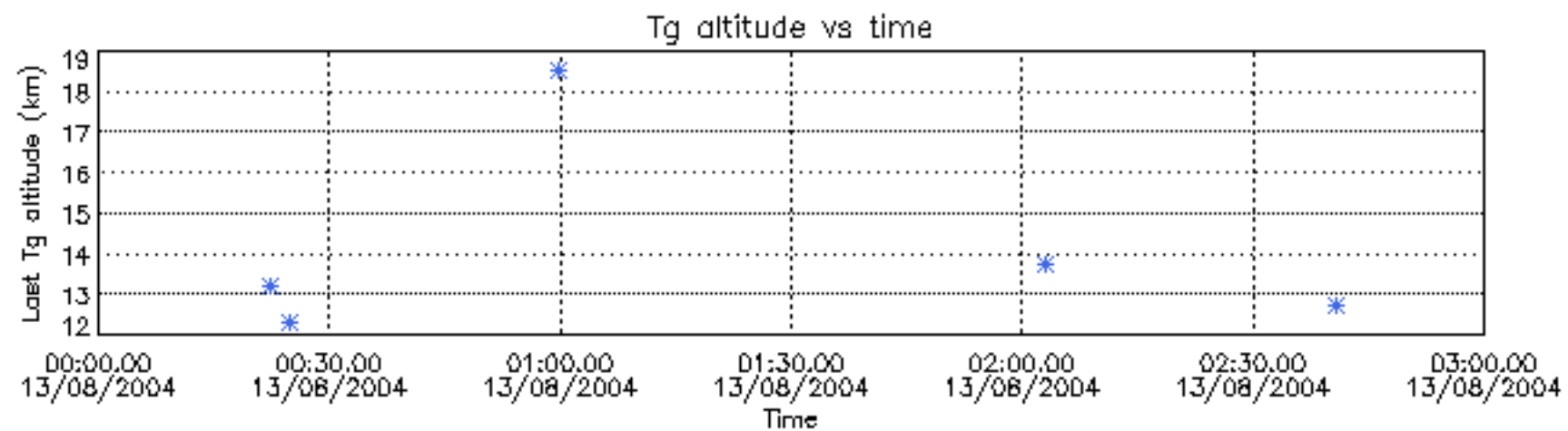
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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11;-2067.5; 02-AUG-2004 09:20:57; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;12672
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13;-1736.6; 02-AUG-2004 09:26:28; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12672
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15;-1238.0; 02-AUG-2004 09:34:47; Dark ; 59.5; 13; 87Alp Tau ; 0.87; 3800;occ; 119; 0;12672
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18; -924.0; 02-AUG-2004 09:40:01; Dark ; 41.0; 125; 44Iot Ori ; 2.77; 30000;occ; 82; 0;12672
19; -811.7; 02-AUG-2004 09:41:53; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;12672
20; -724.4; 02-AUG-2004 09:43:20; Dark ; 43.0; 101; 11Alp Lep ; 2.58; 7000;occ; 86; 0;12672
21; -566.9; 02-AUG-2004 09:45:58; Dark ; 59.5; 165; 34Gam Eri ; 2.95; 3200;occ; 119; 0;12672
22; -285.4; 02-AUG-2004 09:50:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12672
23; -2.0; 02-AUG-2004 09:55:23; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;12672
24; 322.3; 02-AUG-2004 10:00:47; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;12673
25; 430.5; 02-AUG-2004 10:02:35; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;12673
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27; 727.0; 02-AUG-2004 10:07:32; Dark ; 44.5; 148; Alp Tuc ; 2.88; 4100;occ; 89; 0;12673
28; 862.1; 02-AUG-2004 10:09:47; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;12673
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7;-2991.8; 02-AUG-2004 10:46:09; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;12673
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10;-2456.9; 02-AUG-2004 10:55:04; Bright; 48.5; 76; 27Gam Cas ; 2.30; 30000;occ; 97; 0;12673
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12;-1895.9; 02-AUG-2004 11:04:25; Bright; 88.5; 73; 57Gam1And ; 2.26; 13100;occ; 177; 0;12673
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14;-1392.7; 02-AUG-2004 11:12:48; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;12673
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17;-1003.9; 02-AUG-2004 11:19:17; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;12673
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19; -811.9; 02-AUG-2004 11:22:29; Dark ; 44.0; 1; 9Alp CMA ; -1.44; 11000;occ; 88; 0;12673
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21; -566.1; 02-AUG-2004 11:26:34; Dark ; 60.0; 165; 34Gam Eri ; 2.95; 3200;occ; 120; 0;12673
22; -284.7; 02-AUG-2004 11:31:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12673
23; -1.3; 02-AUG-2004 11:35:59; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;12673
24; 322.7; 02-AUG-2004 11:41:23; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;12674
25; 430.2; 02-AUG-2004 11:43:11; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12674
26; 617.6; 02-AUG-2004 11:46:18; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;12674
27; 727.3; 02-AUG-2004 11:48:08; Dark ; 48.0; 148; Alp Tuc ; 2.88; 4100;occ; 96; 0;12674
28; 862.6; 02-AUG-2004 11:50:23; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;12674
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31; 1570.4; 02-AUG-2004 12:02:11; Bright; 51.0; 142; 49Del Cap ; 2.85; 8900;occ; 102; 0;12674
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3;-3890.5; 02-AUG-2004 12:11:46; Bright; 37.0; 168; 17Zet Aql ; 2.99; 11000;occ; 74; 0;12674
4;-3465.4; 02-AUG-2004 12:18:51; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;12674
5;-3347.7; 02-AUG-2004 12:20:49; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;12674
6;-3235.8; 02-AUG-2004 12:22:41; Bright; 40.0; 69; 33Gam Dra ; 2.23; 3800;occ; 80; 0;12674
7;-2991.9; 02-AUG-2004 12:26:44; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;12674
8;-2744.7; 02-AUG-2004 12:30:52; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;12674
9;-2596.9; 02-AUG-2004 12:33:19; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;12674

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 12;-1896.2; 02-AUG-2004 12:45:00; Bright; 89.5; 73; 57Gam1And ; 2.26; 13100;occ; 179; 0;12674
 13;-1738.5; 02-AUG-2004 12:47:38; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12674
 14;-1392.8; 02-AUG-2004 12:53:24; Dark ; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;12674
 15;-1237.6; 02-AUG-2004 12:55:59; Dark ; 65.0; 13; 87Alp Tau ; 0.87; 3800;occ; 130; 0;12674
 16;-1119.8; 02-AUG-2004 12:57:57; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;12674
 17;-1003.7; 02-AUG-2004 12:59:53; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;12674
 18; -923.7; 02-AUG-2004 13:01:13; Dark ; 42.0; 125; 44Iot Ori ; 2.77; 30000;occ; 84; 0;12674
 19; -811.7; 02-AUG-2004 13:03:05; Dark ; 39.0; 1; 9Alp CMA ; -1.44; 11000;occ; 78; 0;12674
 20; -723.8; 02-AUG-2004 13:04:33; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;12674
 21; -565.1; 02-AUG-2004 13:07:11; Dark ; 58.0; 165; 34Gam Eri ; 2.95; 3200;occ; 116; 0;12674
 22; -283.9; 02-AUG-2004 13:11:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12674
 23; -0.3; 02-AUG-2004 13:16:36; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;12674
 24; 323.4; 02-AUG-2004 13:22:00; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;12675
 25; 430.4; 02-AUG-2004 13:23:47; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12675
 26; 617.4; 02-AUG-2004 13:26:54; Dark ; 60.0; 84; Alp Phe ; 2.40; 4500;occ; 120; 0;12675
 27; 727.7; 02-AUG-2004 13:28:44; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;12675
 28; 931.1; 02-AUG-2004 13:32:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;12675
 29; 1147.7; 02-AUG-2004 13:35:44; Dark ; 72.0; 18; 24Alp PsA ; 1.17; 9700;occ; 144; 0;12675
 30; 1416.2; 02-AUG-2004 13:40:13; Dark ; 50.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 101; 0;12675
 31; 1570.0; 02-AUG-2004 13:42:46; Bright; 1.5; 142; 49Del Cap ; 2.85; 8900;occ; 3; 0;12675

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Problem occurred when reading packet number 991!

Problem occurred when reading packet number 3241!

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 3;-3979.8; 02-AUG-2004 13:50:52; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;12675
 4;-3891.0; 02-AUG-2004 13:52:21; Bright; 36.5; 168; 17Zet Aql ; 2.99; 11000;occ; 73; 0;12675
 5;-3465.1; 02-AUG-2004 13:59:27; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;12675
 6;-3347.6; 02-AUG-2004 14:01:25; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;12675
 7;-3235.4; 02-AUG-2004 14:03:17; Bright; 41.0; 69; 33Gam Dra ; 2.23; 3800;occ; 82; 0;12675
 8;-2991.4; 02-AUG-2004 14:07:21; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12675
 9;-2743.8; 02-AUG-2004 14:11:28; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;12675
 10;-2596.7; 02-AUG-2004 14:13:56; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12675
 11;-2458.3; 02-AUG-2004 14:16:14; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;12675
 12;-2067.8; 02-AUG-2004 14:22:45; Bright; 316.0; 160; 23Gam Per ; 2.93; 4700;occ; 632; 547;12675
 13;-144771048.8; 01-JAN-2000 00:46:23; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 90;12675
 14;-144770922.2; 01-JAN-2000 00:48:30; Bright; 87.0; 73; 57Gam1And ; 2.26; 13100;occ; 174; 0;12675
 15;-144770764.8; 01-JAN-2000 00:51:07; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12675
 16;-144770416.9; 01-JAN-2000 00:56:55; Dark ; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;12675
 17;-144770262.1; 01-JAN-2000 00:59:30; Dark ; 65.0; 13; 87Alp Tau ; 0.87; 3800;occ; 130; 0;12675
 18;-144770143.1; 01-JAN-2000 01:01:29; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;12675
 19;-144770028.3; 01-JAN-2000 01:03:24; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;12675
 20;-144769948.4; 01-JAN-2000 01:04:44; Dark ; 39.0; 125; 44Iot Ori ; 2.77; 30000;occ; 78; 0;12675
 21;-144769836.0; 01-JAN-2000 01:06:36; Dark ; 45.0; 1; 9Alp CMA ; -1.44; 11000;occ; 90; 0;12675
 22;-144769748.2; 01-JAN-2000 01:08:04; Dark ; 44.0; 101; 11Alp Lep ; 2.58; 7000;occ; 88; 0;12675
 23;-144769601.1; 01-JAN-2000 01:10:31; Dark ; 39.5; 177; 1Zet CMA ; 3.02; 26000;occ; 79; 0;12675
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 26;-144769024.4; 01-JAN-2000 01:20:08; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;12675
 27;-144768701.3; 01-JAN-2000 01:25:31; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;12675
 28;-144768594.9; 01-JAN-2000 01:27:17; Dark ; 41.0; 135; Bet Hyi ; 2.82; 5800;occ; 82; 0;12675
 29;-144768406.0; 01-JAN-2000 01:30:26; Dark ; 65.0; 84; Alp Phe ; 2.40; 4500;occ; 130; 0;12675
 30;-144768297.3; 01-JAN-2000 01:32:15; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;12675
 31;-144768092.7; 01-JAN-2000 01:35:40; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 15;12675
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 2;-4465.4; 02-AUG-2004 15:23:23; Bright; 53.5; 142; 49Del Cap ; 2.85; 8900;occ; 107; 0;12676
 3;-4219.2; 02-AUG-2004 15:27:29; Bright; 53.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 106; 0;12676
 4;-3980.2; 02-AUG-2004 15:31:28; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;12676
 5;-3892.0; 02-AUG-2004 15:32:56; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;12676
 6;-3465.5; 02-AUG-2004 15:40:03; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;12676
 7;-3348.0; 02-AUG-2004 15:42:00; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;12676
 8;-3235.7; 02-AUG-2004 15:43:53; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;12676
 9;-2991.6; 02-AUG-2004 15:47:57; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;12676

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10;-2744.2; 02-AUG-2004 15:52:04; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;12676
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27; 324.7; 02-AUG-2004 16:43:13; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;12677
28; 430.4; 02-AUG-2004 16:44:59; Dark ; 41.5; 135; Bet Hyi ; 2.82; 5800;occ; 83; 0;12677
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31; 931.9; 02-AUG-2004 16:53:20; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;12677
32; 1149.6; 02-AUG-2004 16:56:58; Dark ; 22.0; 18; 24Alp PsA ; 1.17; 9700;occ; 44; 0;12677
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12;-2257.9; 23-AUG-2004 13:19:11; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;12975
13;-2107.6; 23-AUG-2004 13:21:41; Bright; 62.5; 35; 33Alp Per ; 1.79; 6250;occ; 125; 0;12975
14;-1809.6; 23-AUG-2004 13:26:39; Dark ; 255.0; 173; 4Bet Tri ; 3.00; 8900;occ; 510; 0;12975
15;-1460.4; 23-AUG-2004 13:32:28; Dark ; 59.0; 28; 12Bet Tau ; 1.65; 15200;occ; 118; 0;12975

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16;	-1286.0;	23-AUG-2004	13:35:23;	Dark	;	42.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	84;	0;	12975
17;	-1194.6;	23-AUG-2004	13:36:54;	Dark	;	38.5;	153;	3Bet	CMi	;	2.89;	13100;	occ;	77;	0;	12975
18;	-1049.9;	23-AUG-2004	13:39:19;	Dark	;	60.5;	14;	58Alp	Ori	;	0.87;	3000;	occ;	121;	0;	12975
19;	-953.0;	23-AUG-2004	13:40:56;	Dark	;	63.5;	27;	24Gam	Ori	;	1.64;	26000;	occ;	127;	0;	12975
20;	-836.6;	23-AUG-2004	13:42:52;	Dark	;	56.5;	30;	46Eps	Ori	;	1.69;	30000;	occ;	113;	0;	12975
21;	-725.2;	23-AUG-2004	13:44:43;	Dark	;	51.0;	1;	9Alp	CMa	;	-1.44;	11000;	occ;	102;	0;	12975
22;	-631.1;	23-AUG-2004	13:46:18;	Dark	;	63.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	126;	0;	12975
23;	-422.9;	23-AUG-2004	13:49:46;	Dark	;	42.0;	70;	Zet	Pup	;	2.25;	39000;	occ;	84;	0;	12975
24;	-312.8;	23-AUG-2004	13:51:36;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	12975
25;	-139.5;	23-AUG-2004	13:54:29;	Dark	;	53.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	106;	0;	12975
26;	341.8;	23-AUG-2004	14:02:30;	Dark	;	55.5;	157;	The1Eri		;	2.91;	9300;	occ;	111;	0;	12976
27;	528.5;	23-AUG-2004	14:05:37;	Dark	;	48.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	96;	0;	12976
28;	832.7;	23-AUG-2004	14:10:41;	Dark	;	41.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	83;	0;	12976
29;	971.1;	23-AUG-2004	14:13:00;	Dark	;	43.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	87;	0;	12976
30;	1050.8;	23-AUG-2004	14:14:19;	Dark	;	42.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	85;	0;	12976
31;	1292.1;	23-AUG-2004	14:18:21;	Dark	;	53.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	106;	0;	12976