

GOMOS Daily Report 23-JUN-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	24JUN2004 03:42:15
Data source version	GOMOS/4.02
Start time of products	23-JUN-2004 (23JUN2004 00:00:00)
Stop time of products	24-JUN-2004 (24JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

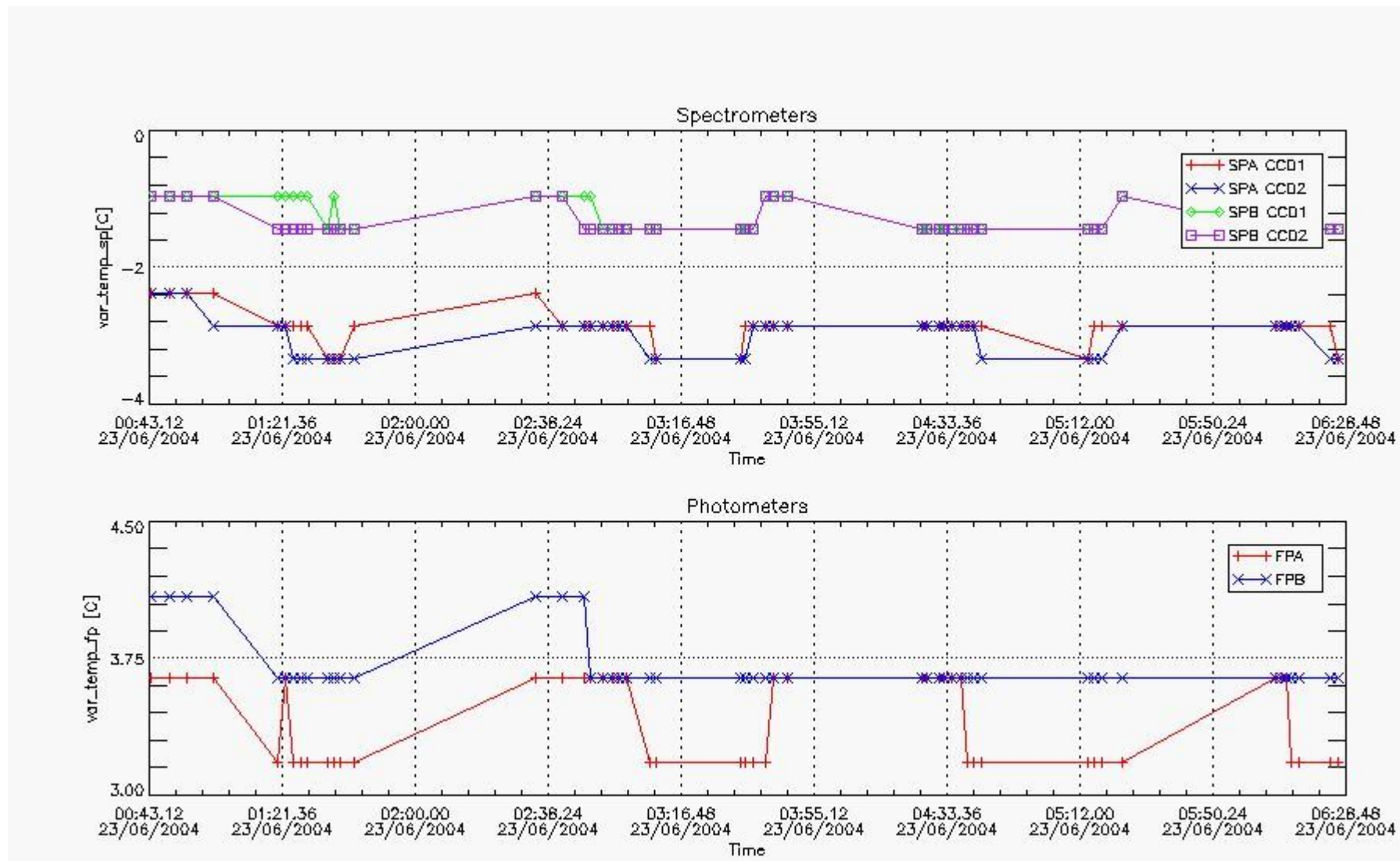
2. Summary of products arrived in PCF

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_1PNPDE20040623_004330_000000632028_00016_12094_0000.N1	23-JUN-2004 00:43:30	Dark	63.000	52	16Bet Cet	2.0370	4500.0	126	12094	No
GOM_TRA_1PNPDE20040623_004901_000000522028_00016_12094_0001.N1	23-JUN-2004 00:49:01	Dark	52.000	9	Alp Eri	0.45300	24000.	104	12094	No
GOM_TRA_1PNPDE20040623_005404_000000422028_00017_12095_0002.N1	23-JUN-2004 00:54:04	Dark	41.500	135	Bet Hyi	2.8200	5800.0	83	12095	No
GOM_TRA_1PNPDE20040623_010155_000000492028_00017_12095_0004.N1	23-JUN-2004 01:01:55	Twilight	49.000	43	Alp TrA	1.9100	4250.0	98	12095	No
GOM_TRA_1PNPDE20040623_012012_000000372028_00017_12095_0013.N1	23-JUN-2004 01:20:12	Bright	37.000	120	1Del Oph	2.7340	3200.0	74	12095	No
GOM_TRA_1PNPDE20040623_012223_000000412028_00017_12095_0014.N1	23-JUN-2004 01:22:23	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	12095	No
GOM_TRA_1PNPDE20040623_012448_000000412028_00017_12095_0015.N1	23-JUN-2004 01:24:48	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	12095	No
GOM_TRA_1PNPDE20040623_012709_000000402028_00017_12095_0016.N1	23-JUN-2004 01:27:09	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	12095	No
GOM_TRA_1PNPDE20040623_012901_000000362028_00017_12095_0017.N1	23-JUN-2004 01:29:01	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	12095	No
GOM_TRA_1PNPDE20040623_013430_000000462028_00017_12095_0018.N1	23-JUN-2004 01:34:30	Bright	46.000	5	3Alp Lyr	0.033000	11000.	92	12095	No
GOM_TRA_1PNPDE20040623_013627_000000392028_00017_12095_0019.N1	23-JUN-2004 01:36:27	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	12095	No
GOM_TRA_1PNPDE20040623_013827_000000382028_00017_12095_0020.N1	23-JUN-2004 01:38:27	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	12095	No
GOM_TRA_1PNPDE20040623_014213_000000392028_00017_12095_0021.N1	23-JUN-2004 01:42:13	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	12095	No
GOM_TRA_1PNPDE20040623_023440_000000422028_00018_12096_0003.N1	23-JUN-2004 02:34:40	Dark	41.500	135	Bet Hyi	2.8200	5800.0	83	12096	No
GOM_TRA_1PNPDE20040623_024231_000000482028_00018_12096_0005.N1	23-JUN-2004 02:42:31	Twilight	47.500	43	Alp TrA	1.9100	4250.0	95	12096	No
GOM_TRA_1PNPDE20040623_024856_000000442028_00018_12096_0008.N1	23-JUN-2004 02:48:56	Bright	44.000	40	The Sco	1.8590	7100.0	88	12096	No
GOM_TRA_1PNPDE20040623_025037_000000422028_00018_12096_0009.N1	23-JUN-2004 02:50:37	Bright	42.000	25	35Lam Sco	1.6200	28000.	84	12096	No
GOM_TRA_1PNPDE20040623_025408_000000522028_00018_12096_0011.N1	23-JUN-2004 02:54:08	Bright	51.500	155	41Pi Sgr	2.9000	6600.0	103	12096	No
GOM_TRA_1PNPDE20040623_025658_000000402028_00018_12096_0012.N1	23-JUN-2004 02:56:58	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	12096	No
GOM_TRA_1PNPDE20040623_025841_000000392028_00018_12096_0013.N1	23-JUN-2004 02:58:41	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	12096	No
GOM_TRA_1PNPDE20040623_030048_000000392028_00018_12096_0014.N1	23-JUN-2004 03:00:48	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12096	No
GOM_TRA_1PNPDE20040623_030745_000000392028_00018_12096_0017.N1	23-JUN-2004 03:07:45	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	12096	No
GOM_TRA_1PNPDE20040623_030937_000000382028_00018_12096_0018.N1	23-JUN-2004 03:09:37	Bright	38.000	67	5Alp CrB	2.2210	11000.	76	12096	No
GOM_TRA_1PNPDE20040623_033348_000000482028_00018_12096_0000.N1	23-JUN-2004 03:33:48	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	12096	No
GOM_TRA_1PNPDE20040623_033517_000000512028_00018_12096_0001.N1	23-JUN-2004 03:35:17	Bright	51.000	68	18Alp Cas	2.2250	4500.0	102	12096	No
GOM_TRA_1PNPDE20040623_033736_000000542028_00018_12096_0002.N1	23-JUN-2004 03:37:36	Bright	54.000	160	23Gam Per	2.9300	4700.0	108	12096	No
GOM_TRA_1PNPDE20040623_034101_000000462028_00018_12096_0003.N1	23-JUN-2004 03:41:01	Twilight	46.000	73	57Gam1And	2.2600	13100.	92	12096	No
GOM_TRA_1PNPDE20040623_034328_000000622028_00018_12096_0004.N1	23-JUN-2004 03:43:28	Twilight	62.000	53	43Bet And	2.0480	3300.0	124	12096	No
GOM_TRA_1PNPDE20040623_034718_000000492028_00018_12096_0005.N1	23-JUN-2004 03:47:18	Twilight	48.500	50	13Alp Ari	2.0070	4250.0	97	12096	No
GOM_TRA_1PNPDE20040623_042621_000000402028_00019_12097_0013.N1	23-JUN-2004 04:26:21	Bright	40.000	141	Bet Ara	2.8400	4600.0	80	12097	No
GOM_TRA_1PNPDE20040623_042743_000000422028_00019_12097_0014.N1	23-JUN-2004 04:27:43	Bright	42.000	147	Alp Ara	2.8770	26000.	84	12097	No
GOM_TRA_1PNPDE20040623_043113_000000442028_00019_12097_0016.N1	23-JUN-2004 04:31:13	Bright	43.500	25	35Lam Sco	1.6200	28000.	87	12097	No
GOM_TRA_1PNPDE20040623_043235_000000502028_00019_12097_0017.N1	23-JUN-2004 04:32:35	Bright	50.000	116	19Del Sgr	2.7000	4100.0	100	12097	No
GOM_TRA_1PNPDE20040623_043445_000000522028_00019_12097_0018.N1	23-JUN-2004 04:34:45	Bright	51.500	155	41Pi Sgr	2.9000	6600.0	103	12097	No
GOM_TRA_1PNPDE20040623_043734_000000392028_00019_12097_0019.N1	23-JUN-2004 04:37:34	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	12097	No
GOM_TRA_1PNPDE20040623_043918_000000382028_00019_12097_0020.N1	23-JUN-2004 04:39:18	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12097	No
GOM_TRA_1PNPDE20040623_044125_000000382028_00019_12097_0021.N1	23-JUN-2004 04:41:25	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	12097	No
GOM_TRA_1PNPDE20040623_044335_000000422028_00019_12097_0022.N1	23-JUN-2004 04:43:35	Bright	41.500	126	60Bet Oph	2.7700	4250.0	83	12097	No
GOM_TRA_1PNPDE20040623_051422_000000492028_00019_12097_0000.N1	23-JUN-2004 05:14:22	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	12097	No
GOM_TRA_1PNPDE20040623_051555_000000662028_00019_12097_0001.N1	23-JUN-2004 05:15:55	Bright	66.000	68	18Alp Cas	2.2250	4500.0	132	12097	No
GOM_TRA_1PNPDE20040623_051812_000000362028_00019_12097_0002.N1	23-JUN-2004 05:18:12	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	12097	No
GOM_TRA_1PNPDE20040623_052404_000000682028_00019_12097_0004.N1	23-JUN-2004 05:24:04	Twilight	67.500	53	43Bet And	2.0480	3300.0	135	12097	No
GOM_TRA_1PNPDE20040623_060822_000000422028_00020_12098_0014.N1	23-JUN-2004 06:08:22	Bright	41.500	147	Alp Ara	2.8770	26000.	83	12098	No
GOM_TRA_1PNPDE20040623_061009_000000452028_00020_12098_0015.N1	23-JUN-2004 06:10:09	Bright	45.000	40	The Sco	1.8590	7100.0	90	12098	No
GOM_TRA_1PNPDE20040623_061150_000000442028_00020_12098_0016.N1	23-JUN-2004 06:11:50	Bright	43.500	25	35Lam Sco	1.6200	28000.	87	12098	No
GOM_TRA_1PNPDE20040623_061311_000000502028_00020_12098_0017.N1	23-JUN-2004 06:13:11	Bright	49.500	116	19Del Sgr	2.7000	4100.0	99	12098	No
GOM_TRA_1PNPDE20040623_061520_000000522028_00020_12098_0018.N1	23-JUN-2004 06:15:20	Bright	52.000	155	41Pi Sgr	2.9000	6600.0	104	12098	No
GOM_TRA_1PNPDE20040623_062411_000000402028_00020_12098_0022.N1	23-JUN-2004 06:24:11	Bright	40.000	126	60Bet Oph	2.7700	4250.0	80	12098	No
GOM_TRA_1PNPDE20040623_062636_000000402028_00020_12098_0023.N1	23-JUN-2004 06:26:36	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	12098	No

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



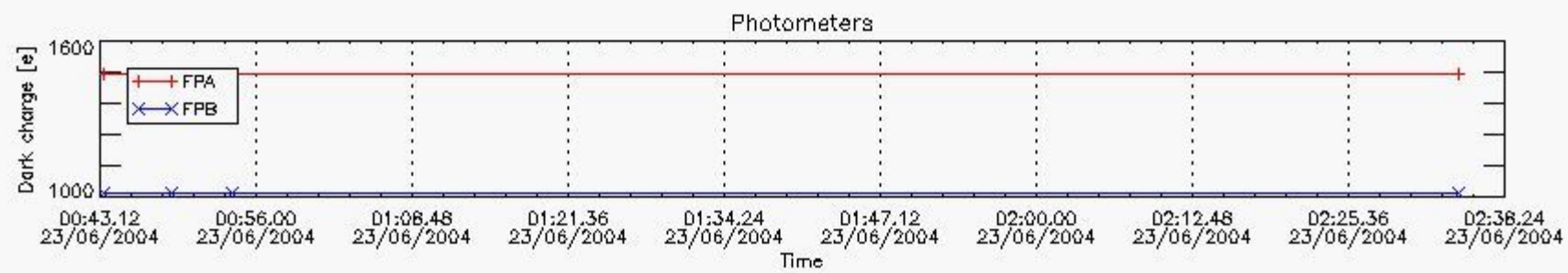
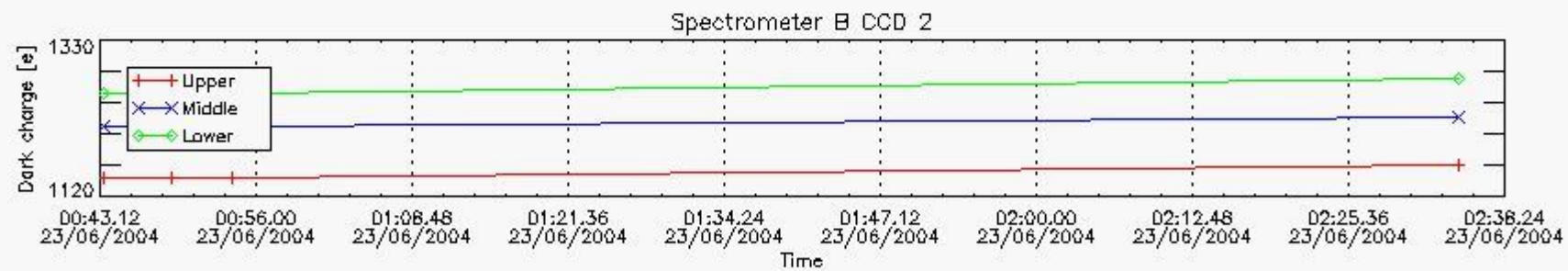
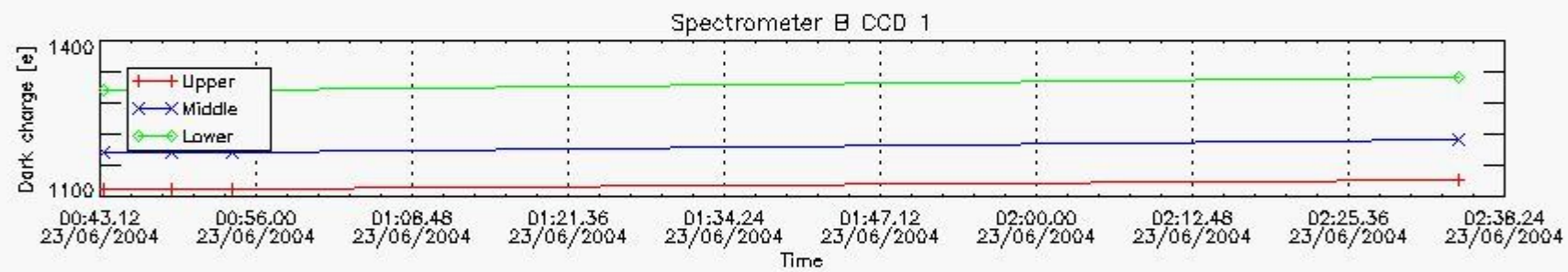
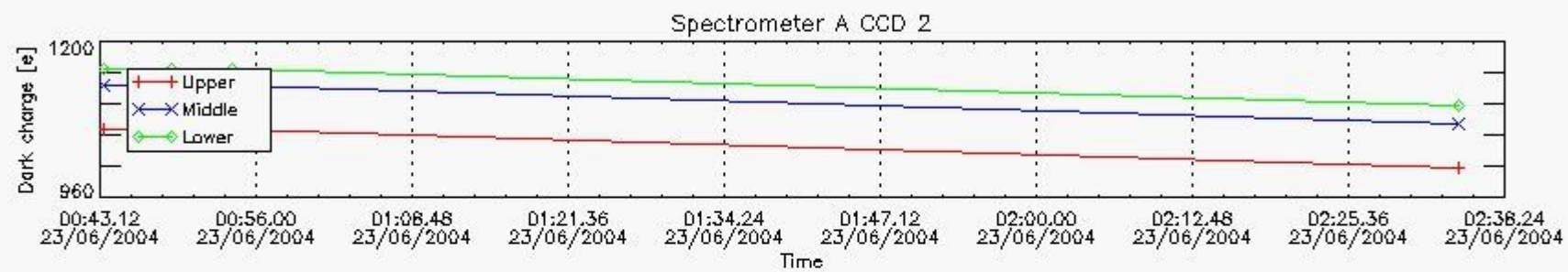
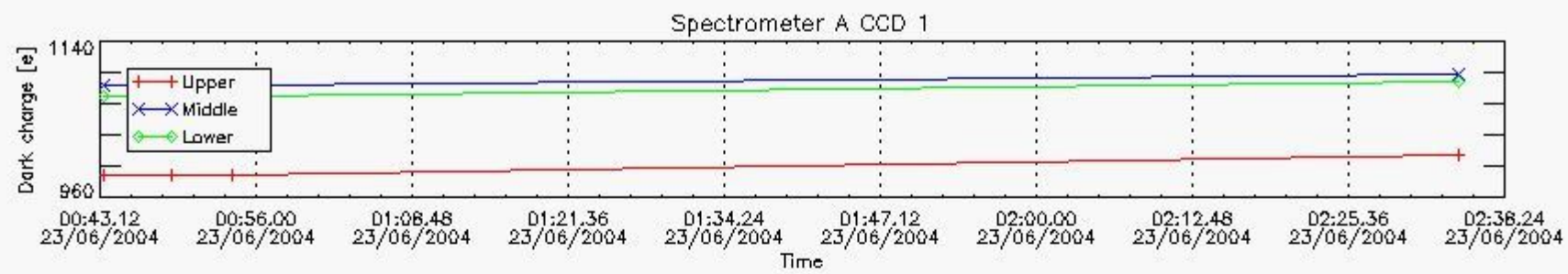
4. Overview of dark signal processing per product

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



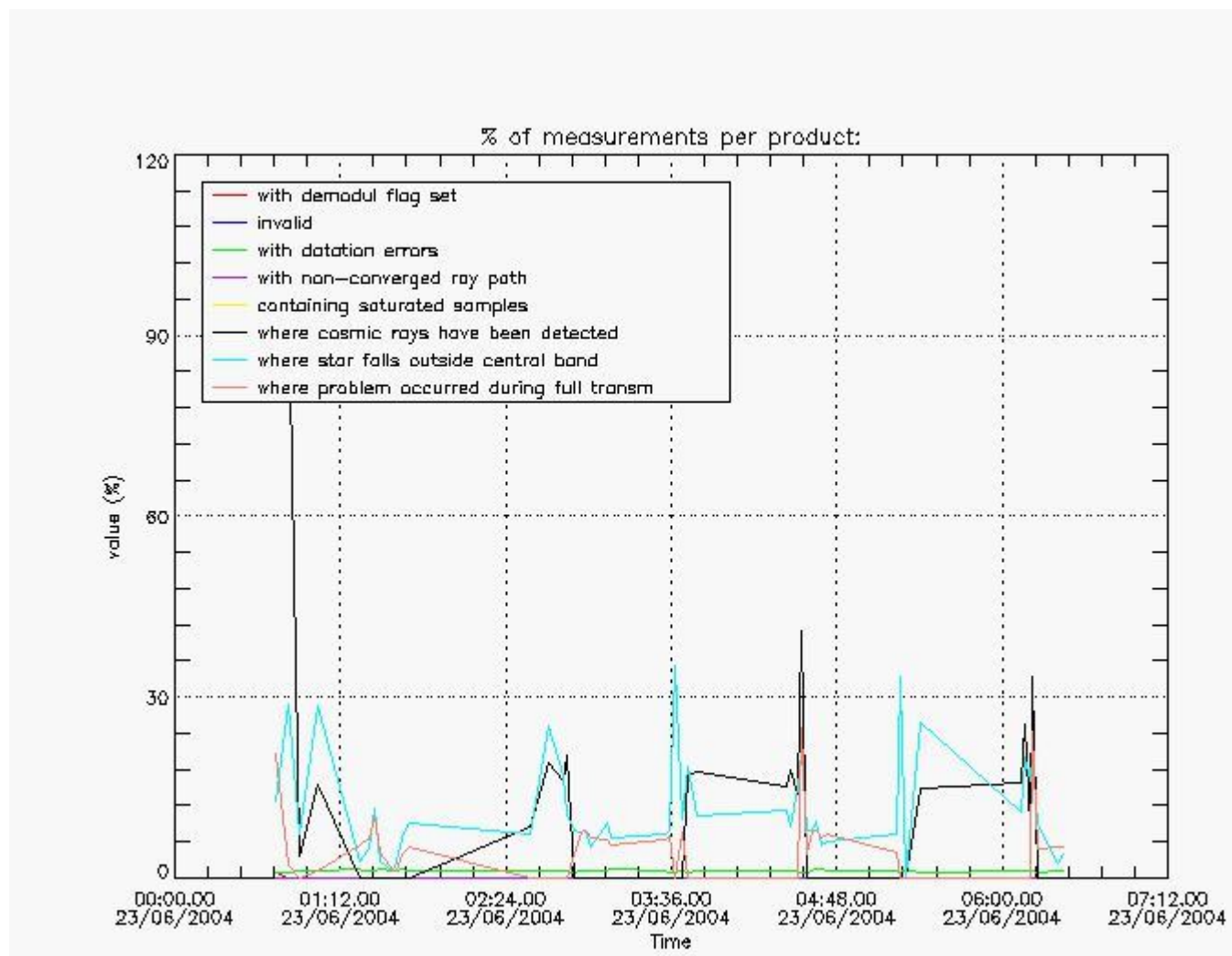
5. Demodulation flag and quality information monitoring

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:

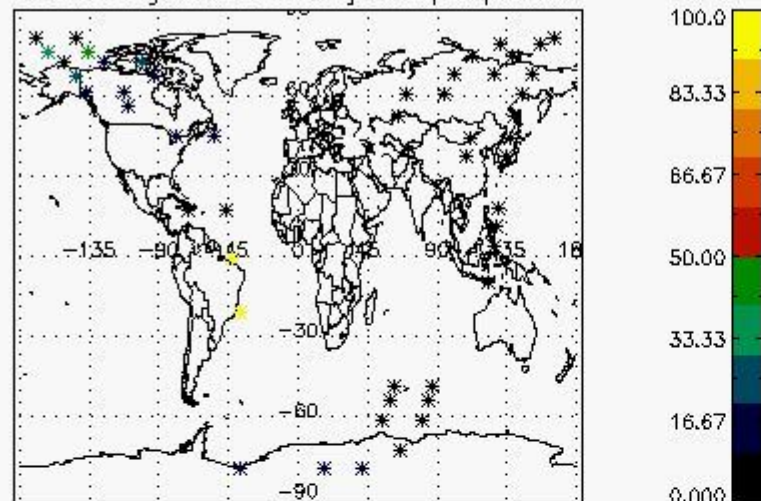
At least one measurement with demodulation flag set:	4.08163 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

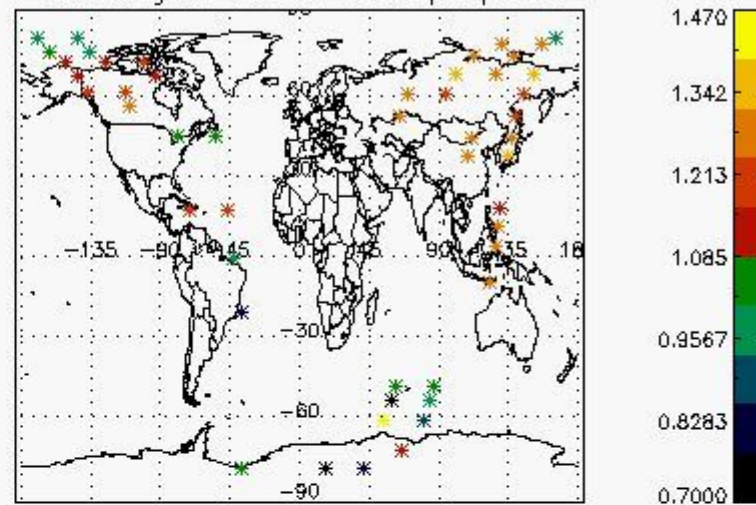


5.3 Plot quality information per product (world map)

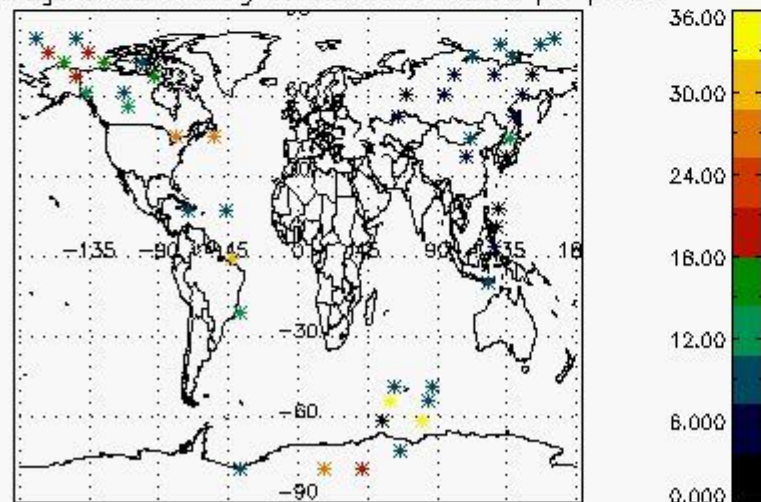
Percentage of cosmic ray hits per profile



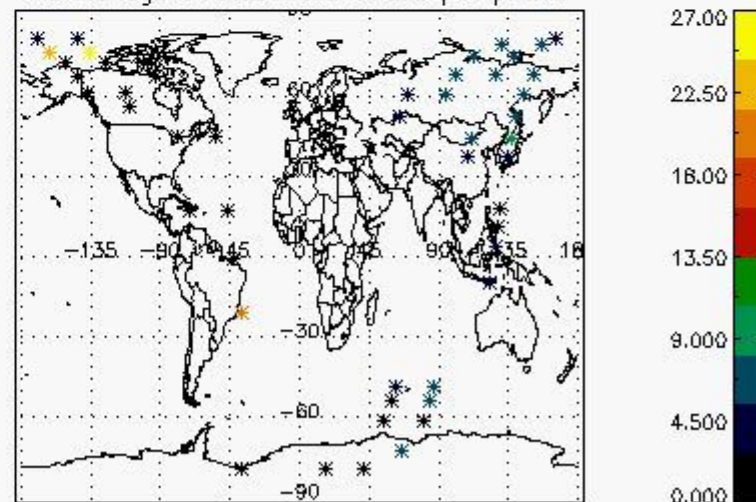
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



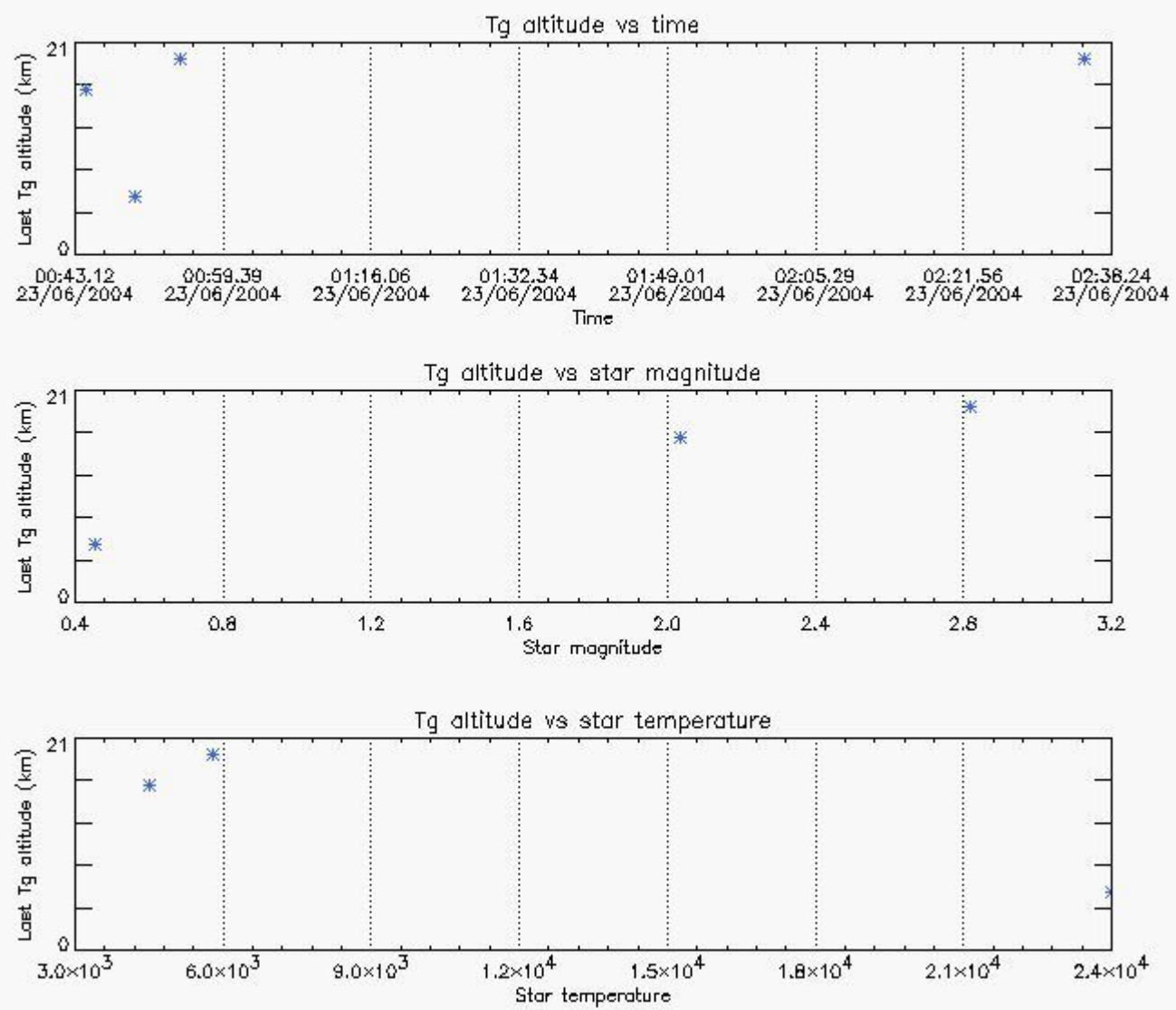
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.146	18.496	11.645
St. deviation:	6.4850	4.7491	4.5346
Maximum:	19.323	28.068	17.612
Minimum:	5.6566	4.7134	6.7346
Number of data:	4.0000	39.000	6.0000

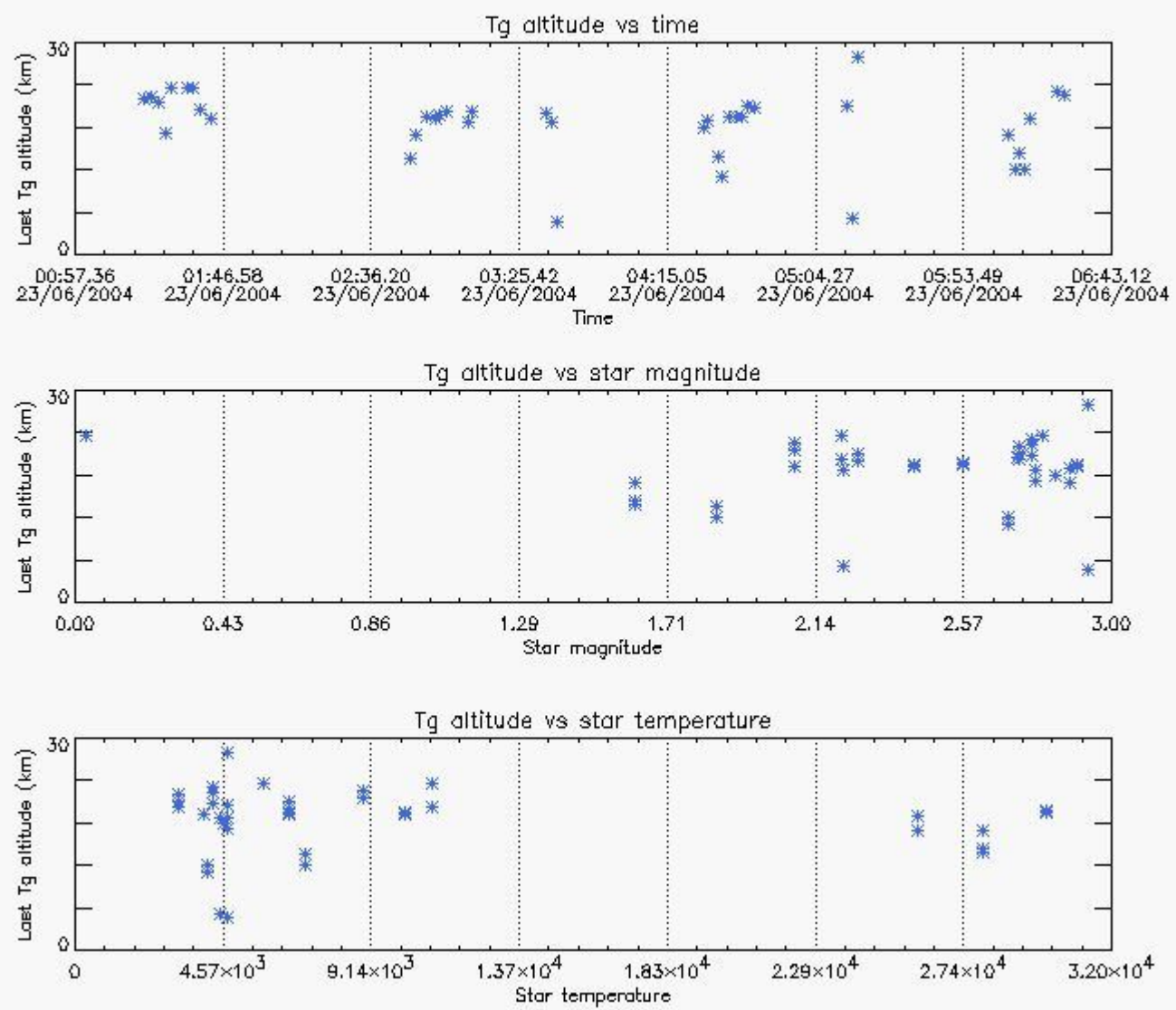
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



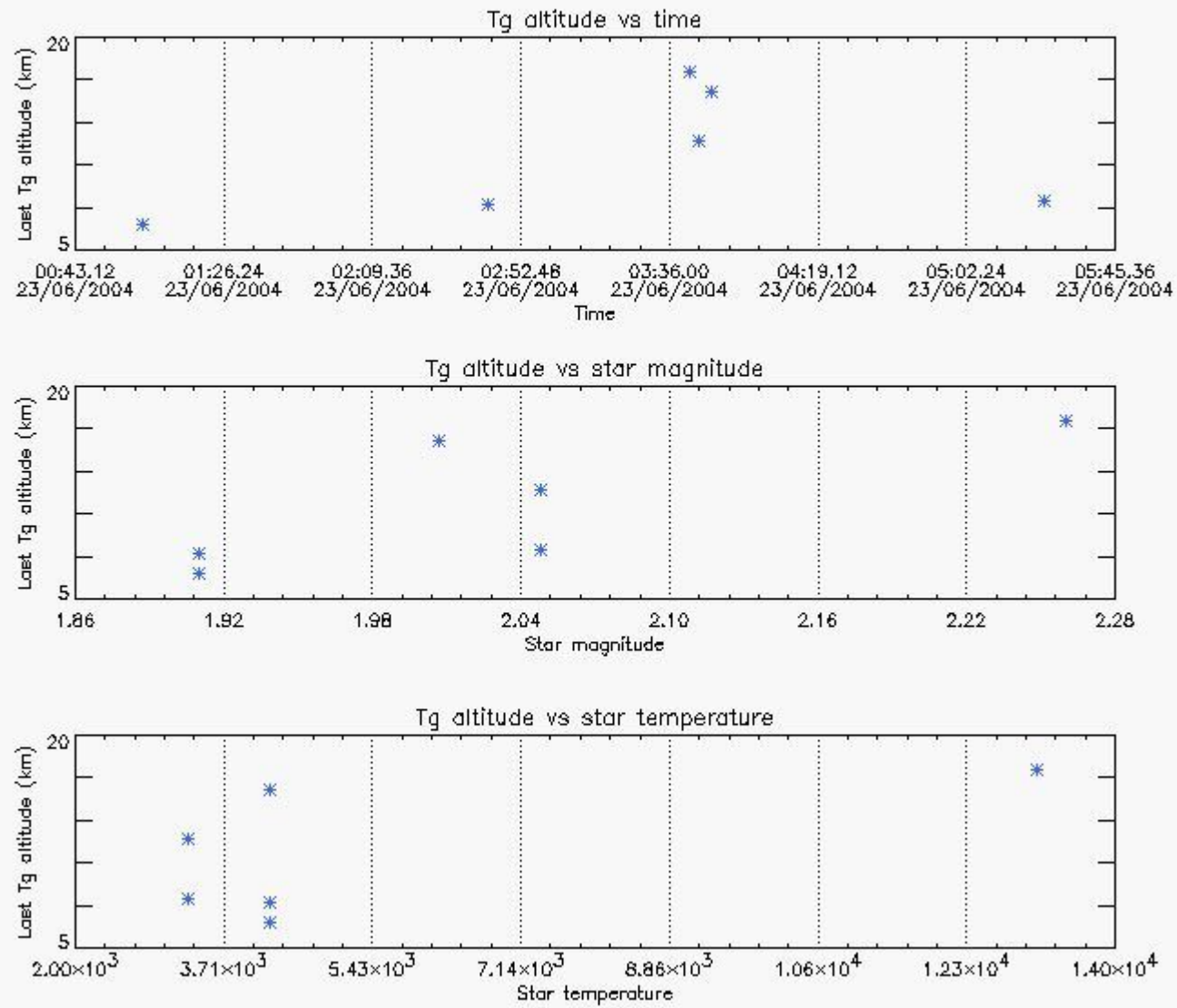
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

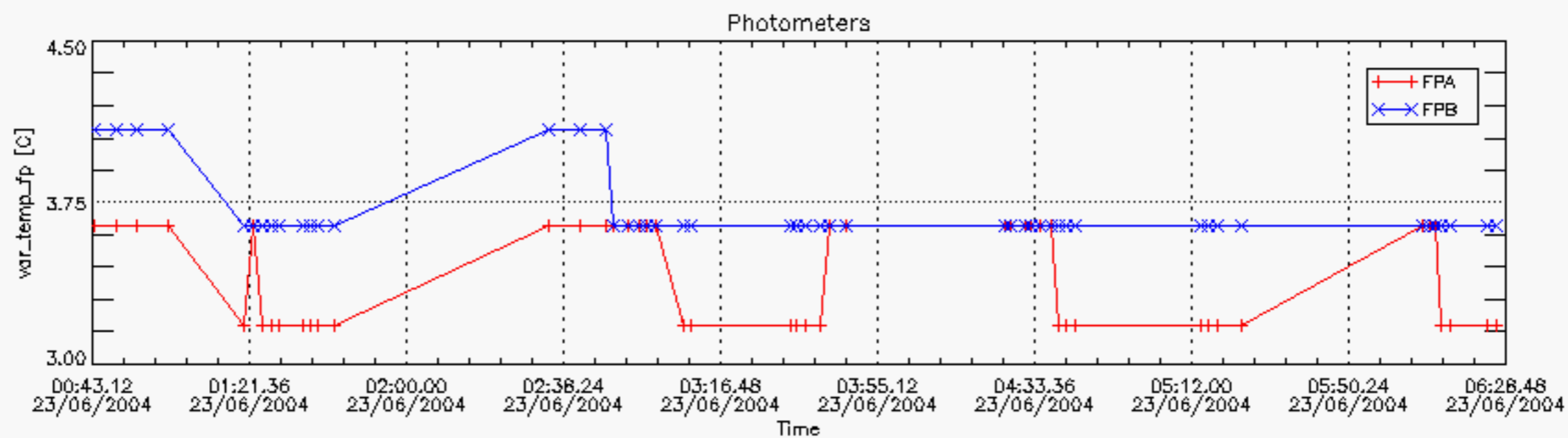
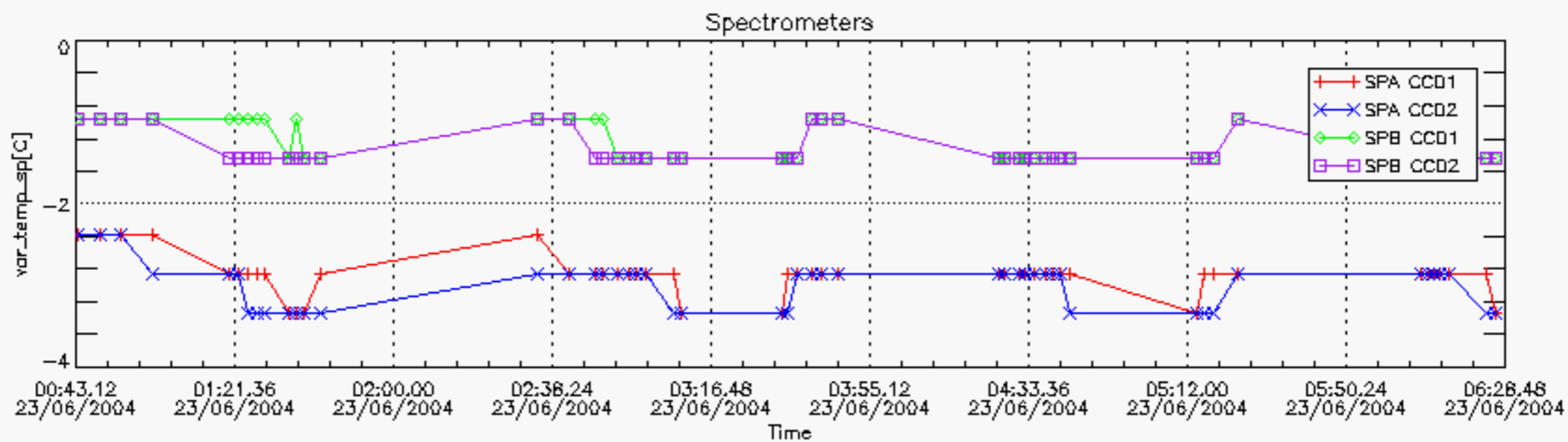
Tangent altitude at which the star is lost

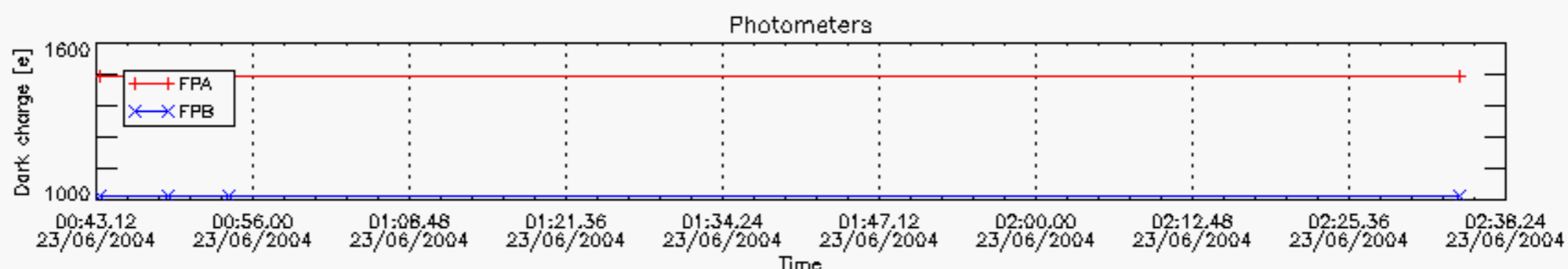
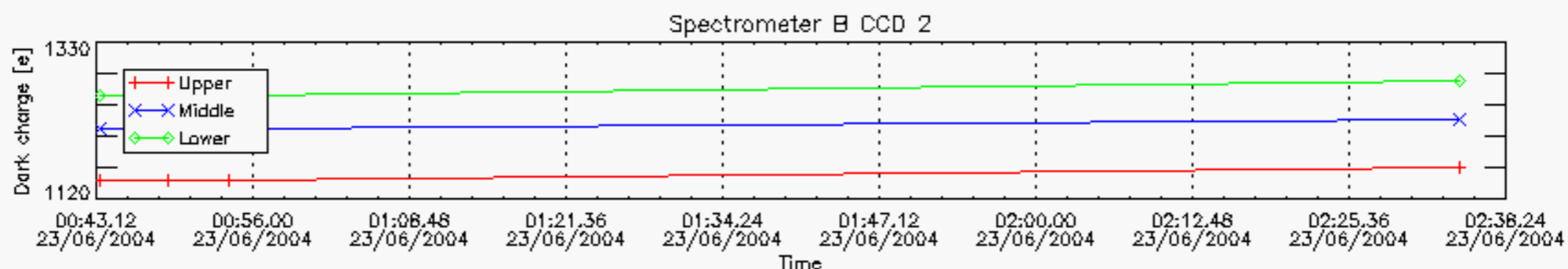
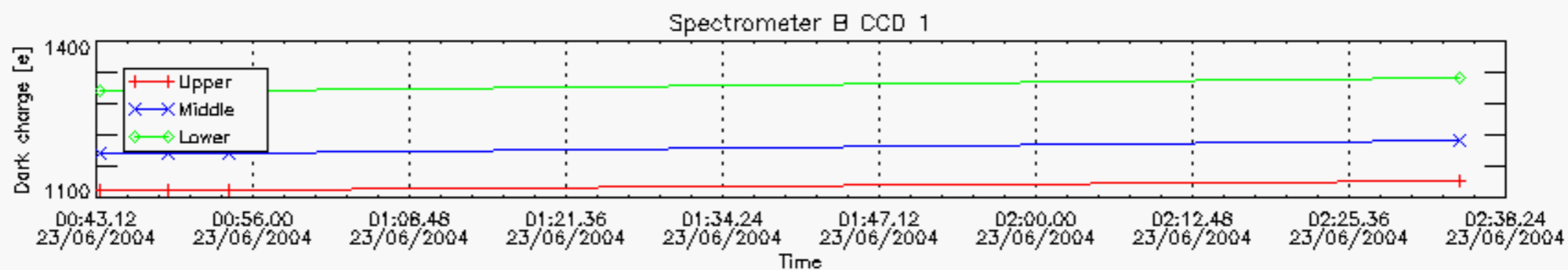
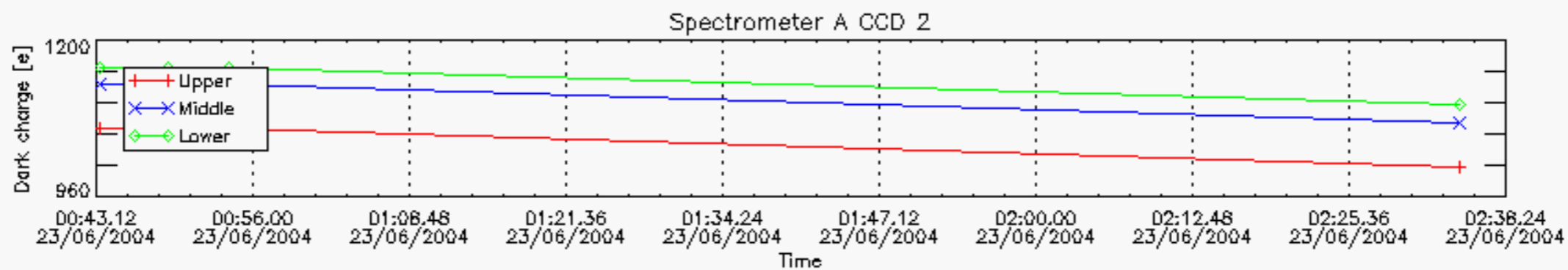
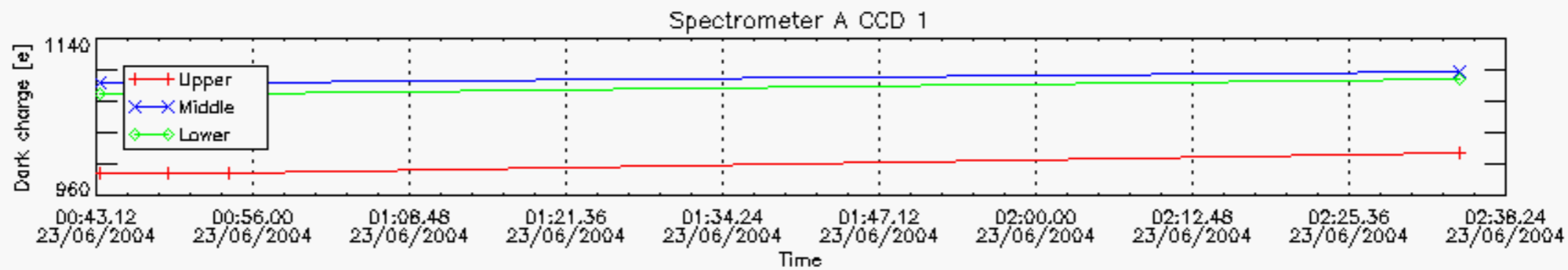


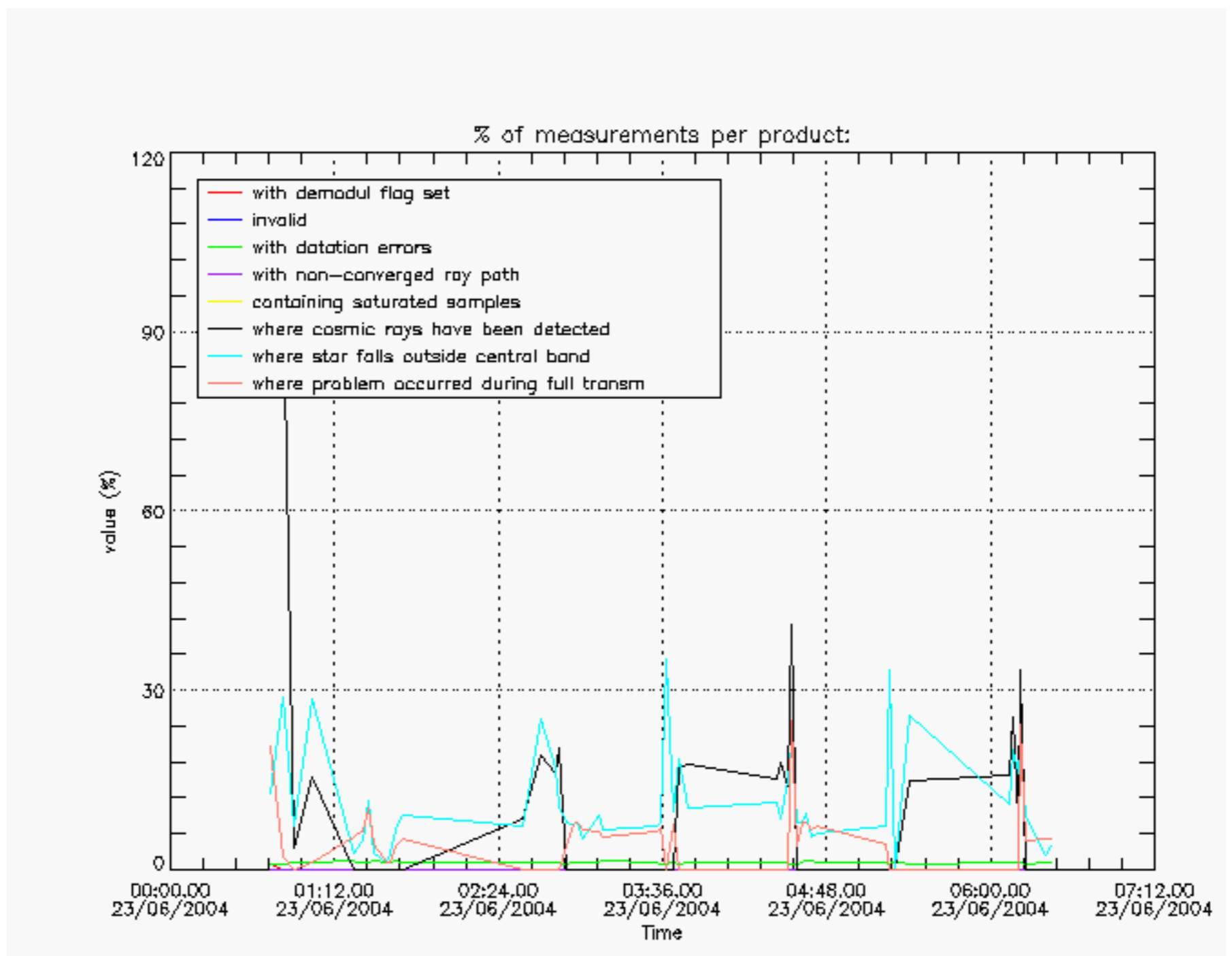
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

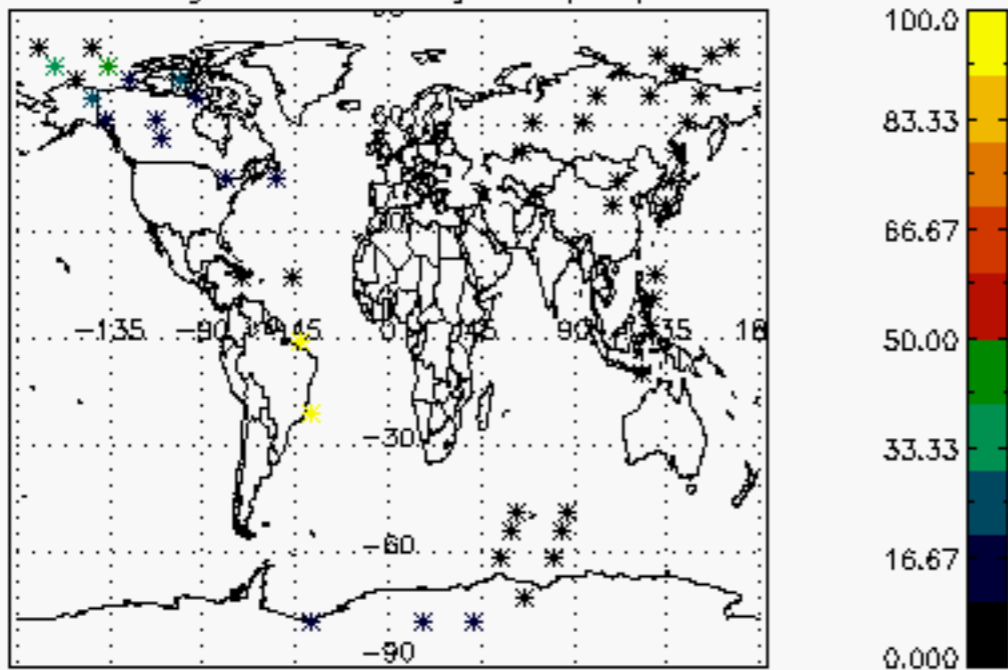
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.6	1445.8	1461.6	1447.1
St. deviation:	4.7774	7.1616	6.7169	7.8824
Maximum:	1488.0	1736.0	1503.0	1492.0
Minimum:	1439.0	1423.0	1436.0	1420.0
Number of data:	5350.0	5350.0	43700.	43700.



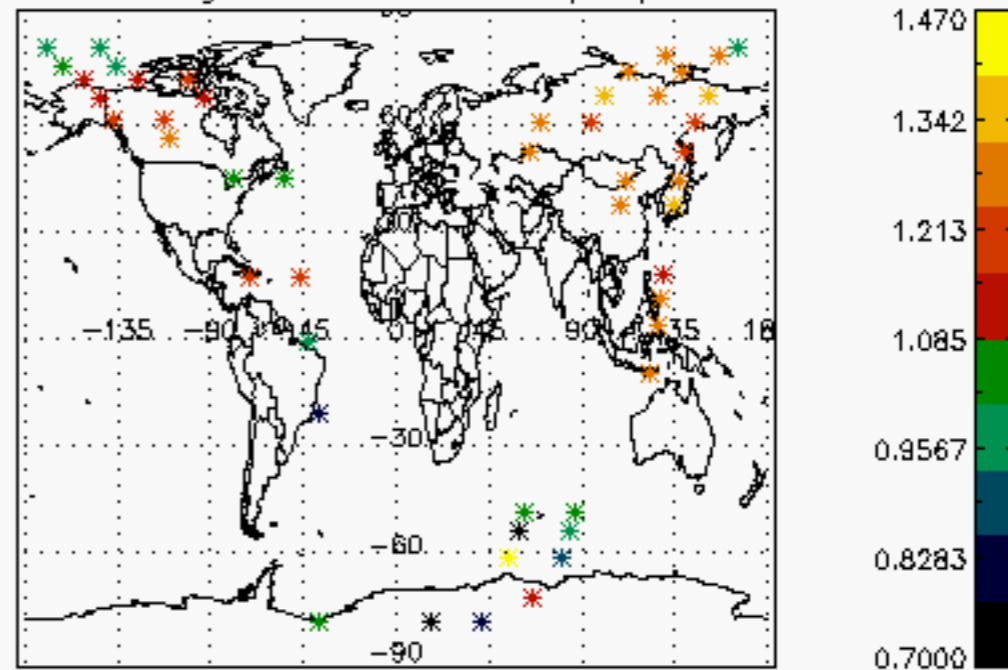




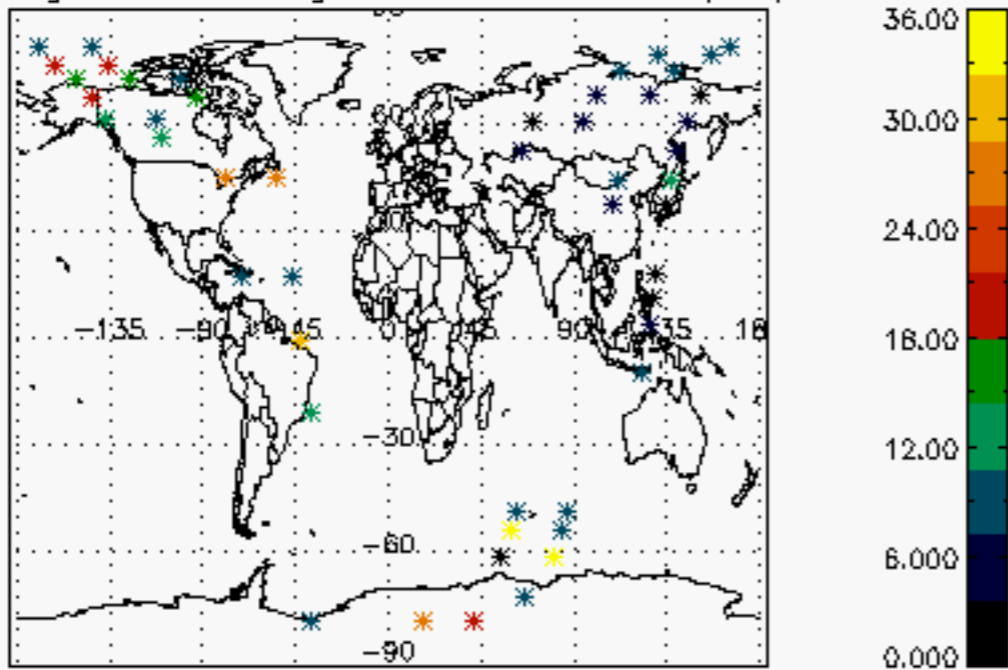
Percentage of cosmic ray hits per profile



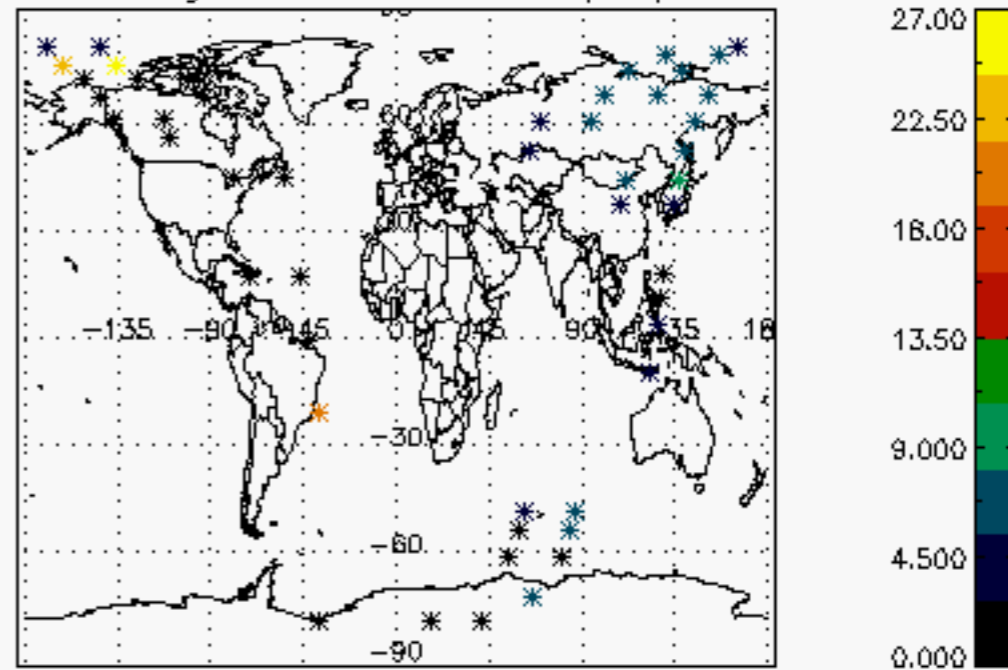
Percentage of datation errors per profile



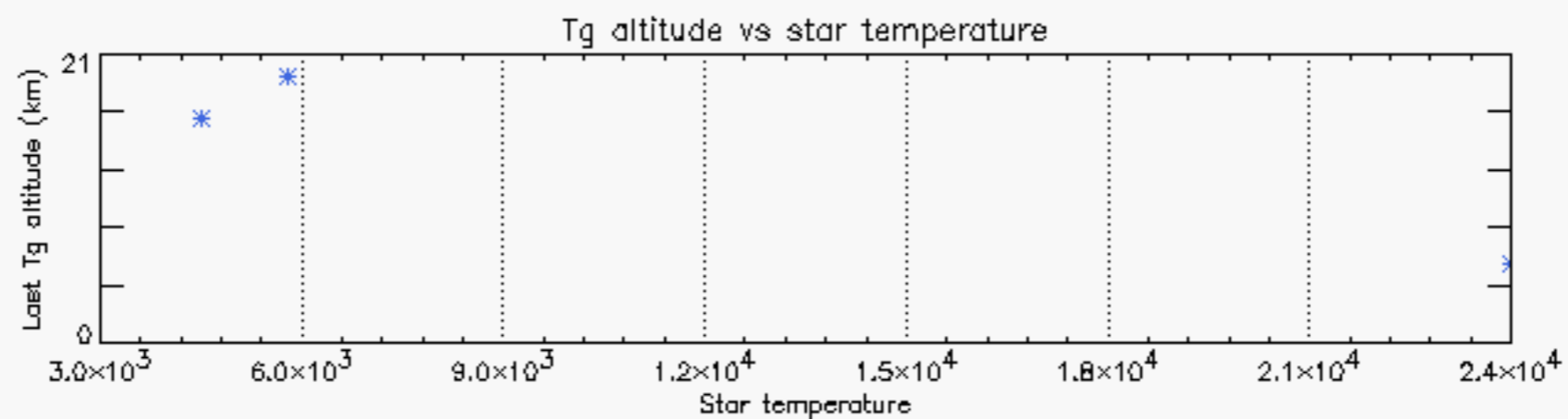
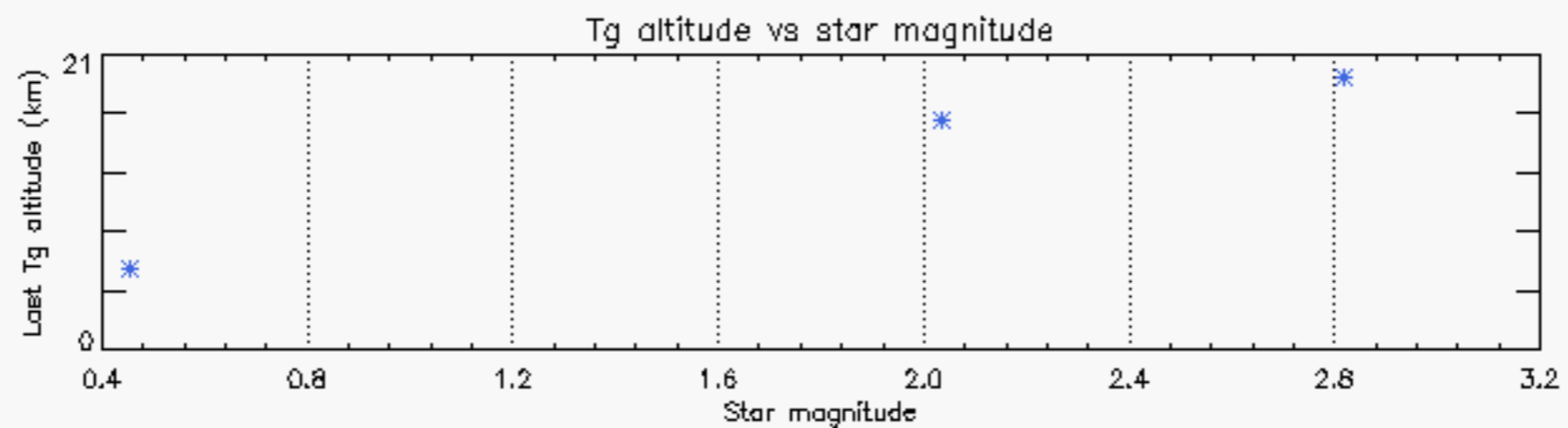
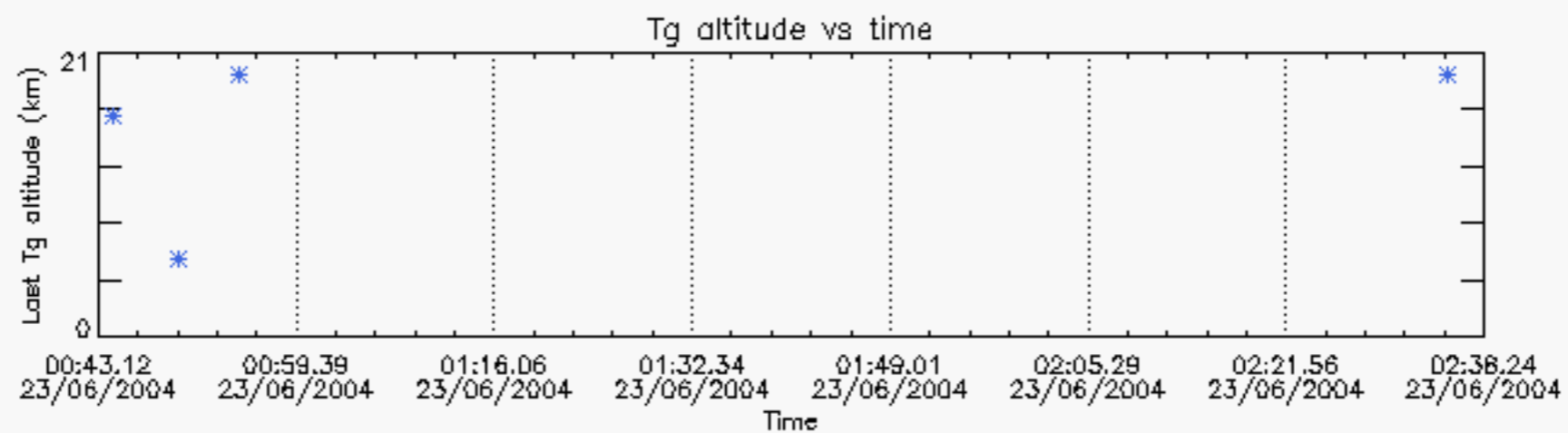
Percentage of star falling outside central band per profile



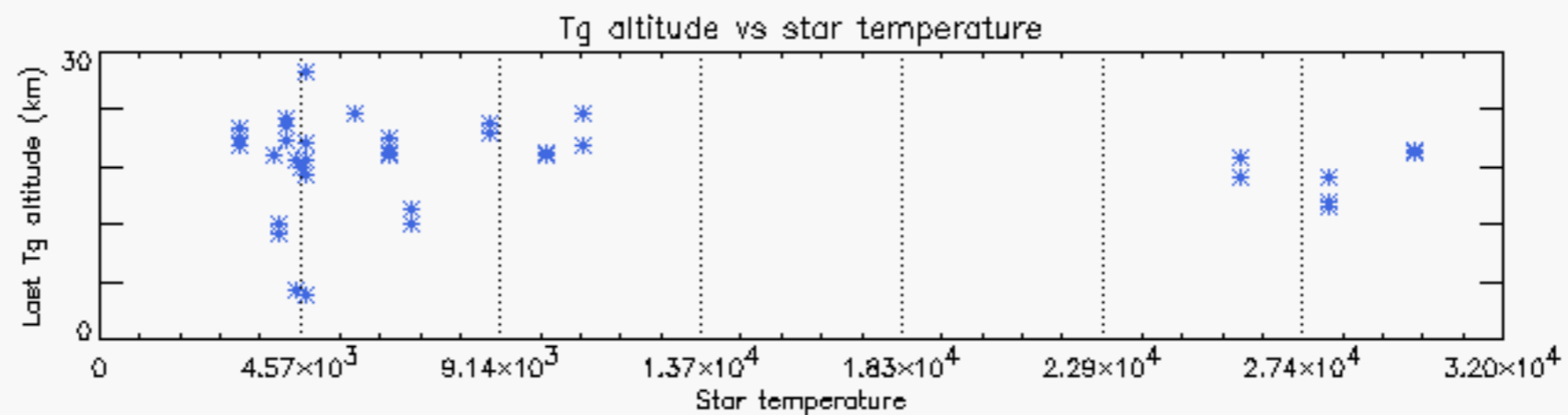
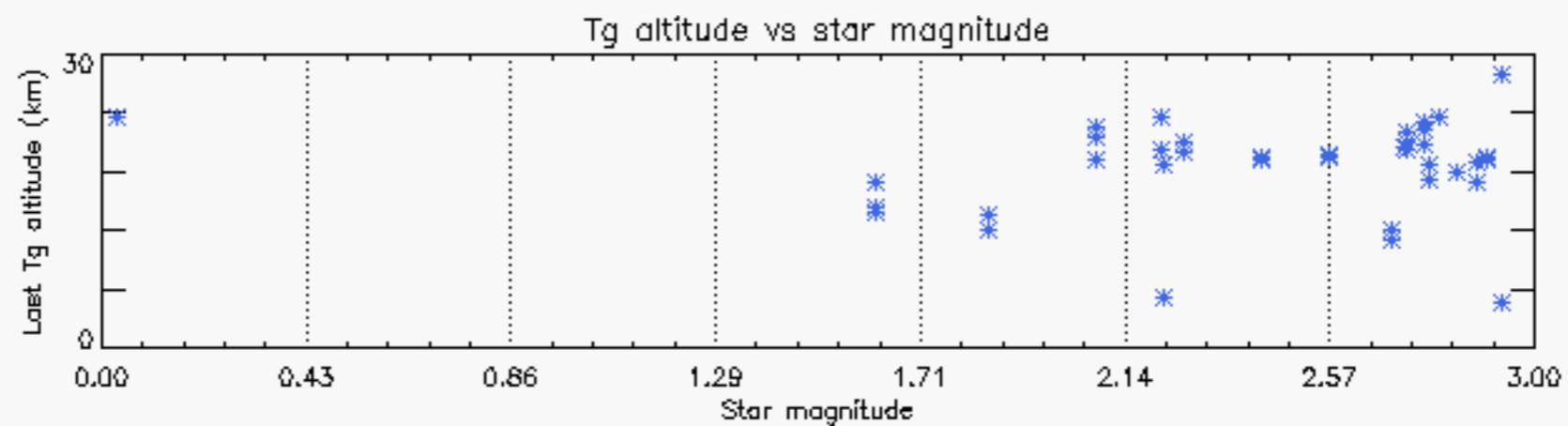
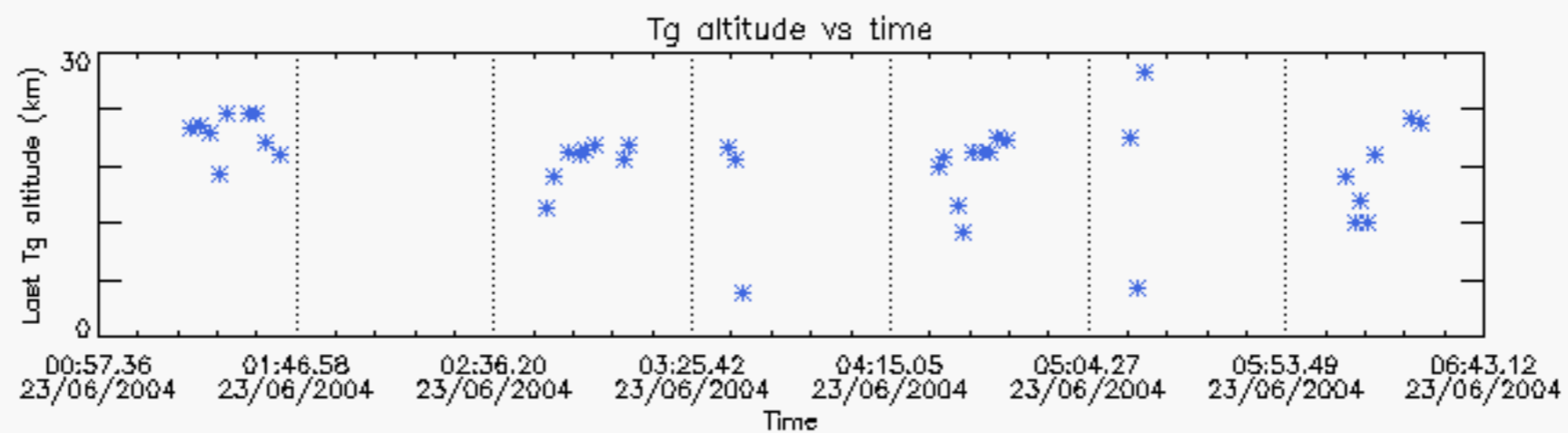
Percentage of saturation errors per profile



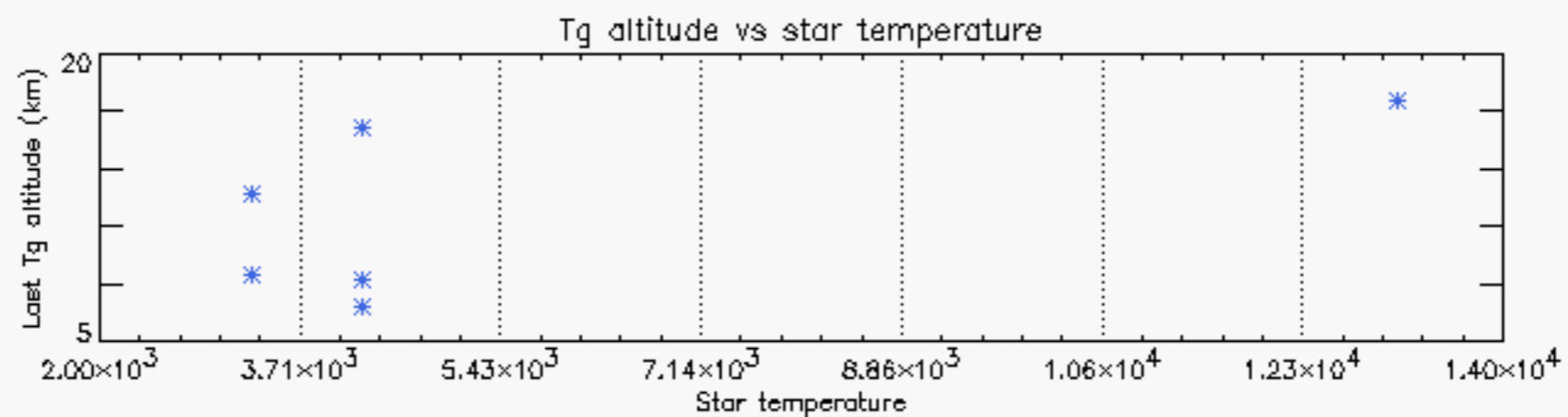
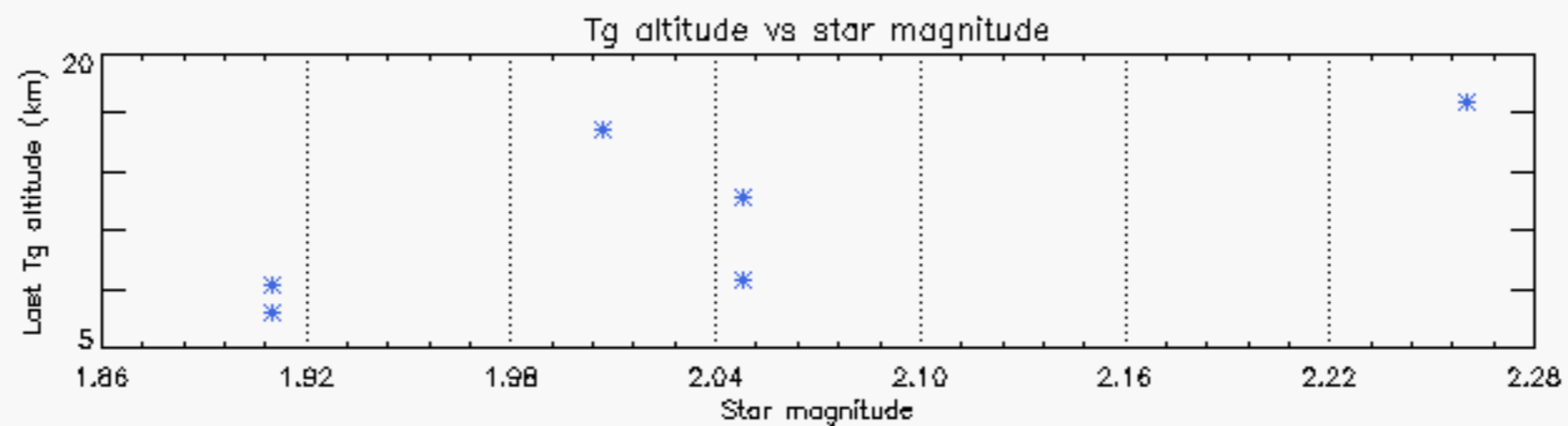
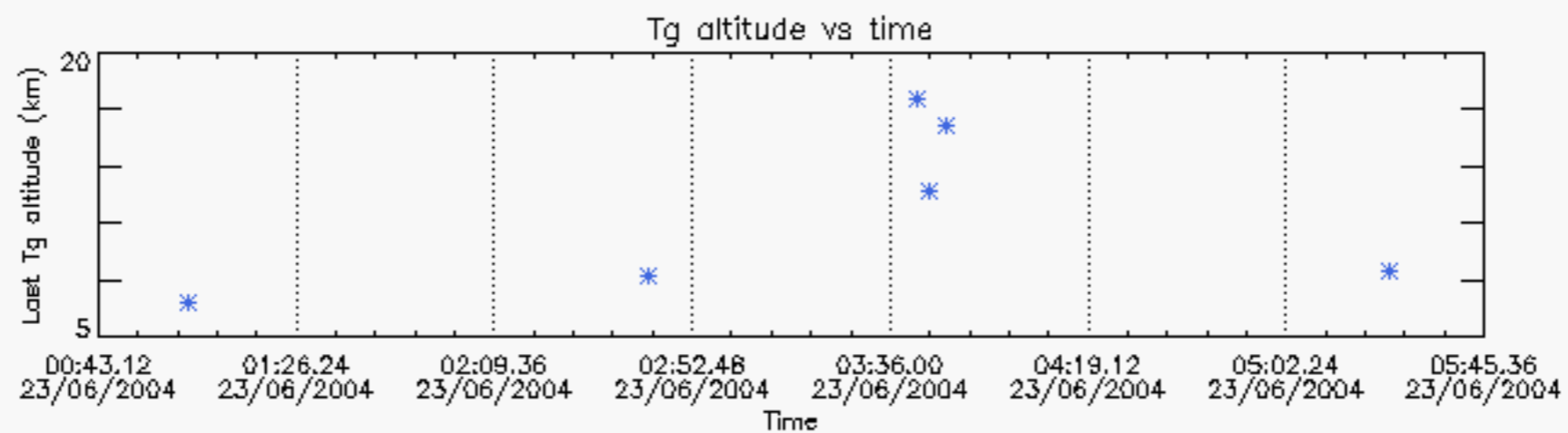
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 5;-3779.7; 01-JUN-2004 06:20:04; Bright; 38.0; 3; 16Alp Boo ;-0.05; 4250;occ; 76; 0;11783
 6;-3664.8; 01-JUN-2004 06:21:59; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;11783
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 24; 492.8; 01-JUN-2004 07:31:16; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11784
 25; 707.4; 01-JUN-2004 07:34:51; Dark ; 51.5; 43; Alp TrA ; 1.91; 4250;occ; 103; 0;11784
 26; 831.3; 01-JUN-2004 07:36:55; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11784
 27; 937.5; 01-JUN-2004 07:38:41; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;11784
 28; 1038.8; 01-JUN-2004 07:40:22; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;11784
 29; 1146.6; 01-JUN-2004 07:42:10; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;11784
 30; 1252.0; 01-JUN-2004 07:43:56; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;11784
 31; 1373.5; 01-JUN-2004 07:45:57; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;11784
 32; 1498.2; 01-JUN-2004 07:48:02; Bright; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;11784
 33; 1590.3; 01-JUN-2004 07:49:34; Bright; 47.5; 86; 35Eta Oph ; 2.43; 10200;occ; 95; 0;11784
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 25; 938.0; 01-JUN-2004 09:19:17; Dark ; 42.5; 147; Alp Ara ; 2.88; 26000;occ; 85; 0;11785
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 28; 1252.1; 01-JUN-2004 09:24:32; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;11785
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 31; 1590.3; 01-JUN-2004 09:30:10; Bright; 46.5; 86; 35Eta Oph ; 2.43; 10200;occ; 93; 0;11785
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27; 707.4; 01-JUN-2004 10:56:03; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;11786
28; 830.9; 01-JUN-2004 10:58:06; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;11786
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33; 1373.3; 01-JUN-2004 11:07:09; Dark ; 44.0; 136; 23Tau Sco ; 2.82; 30000;occ; 88; 0;11786
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6;-3669.5; 01-JUN-2004 11:23:42; Bright; 40.0; 67; 5Alp CrB ; 2.22; 11000;occ; 80; 0;11786
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27; 494.1; 01-JUN-2004 12:33:05; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11787
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29; 831.2; 01-JUN-2004 12:38:42; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11787
30; 938.2; 01-JUN-2004 12:40:29; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;11787
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26;	416.4;	17-JUN-2004	02:25:20;	Dark	;	49.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	99;	0;	12010
27;	636.8;	17-JUN-2004	02:29:00;	Dark	;	47.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	95;	0;	12010
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