

GOMOS Daily Report 29-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	01JUL2004 03:56:09
Data source version	GOMOS/4.02
Start time of products	29-JUN-2004 (29JUN2004 00:00:00)
Stop time of products	30-JUN-2004 (30JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	2

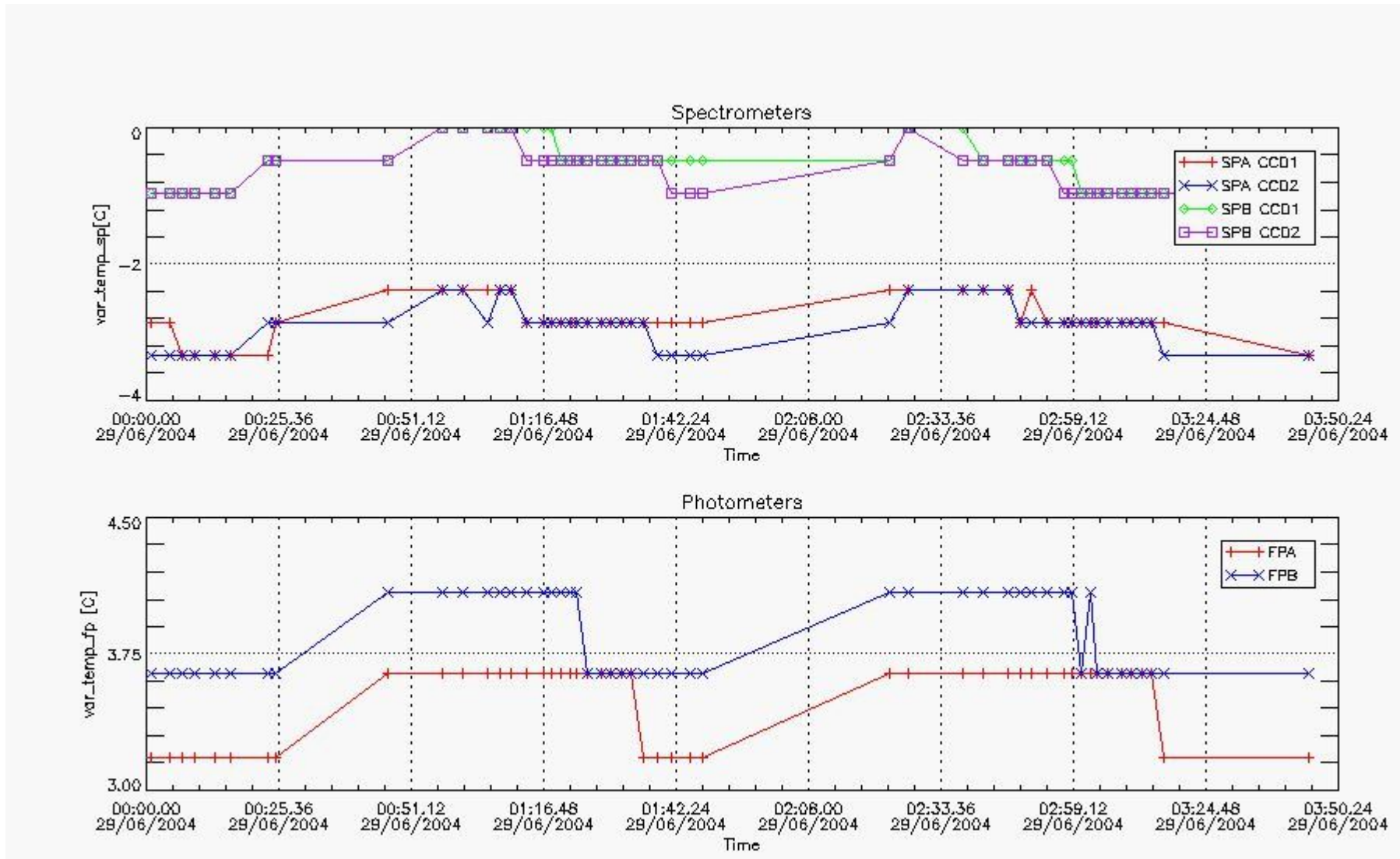
2. Summary of products arrived in PCF

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_1PNPDE20040629_000054_000000382028_00102_12180_0016.N1	29-JUN-2004 00:00:54	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	12180	No
GOM_TRA_1PNPDE20040629_000432_000000462028_00102_12180_0017.N1	29-JUN-2004 00:04:32	Bright	45.500	5	3Alp Lyr	0.033000	11000.	91	12180	No
GOM_TRA_1PNPDE20040629_000701_000000402028_00102_12180_0018.N1	29-JUN-2004 00:07:01	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	12180	No
GOM_TRA_1PNPDE20040629_000919_000000352028_00102_12180_0019.N1	29-JUN-2004 00:09:19	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	12180	No
GOM_TRA_1PNPDE20040629_001316_000000342028_00102_12180_0020.N1	29-JUN-2004 00:13:16	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	12180	No
GOM_TRA_1PNPDE20040629_001608_000000482028_00102_12180_0021.N1	29-JUN-2004 00:16:08	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	12180	No
GOM_TRA_1PNPDE20040629_002326_000000692028_00102_12180_0022.N1	29-JUN-2004 00:23:26	Bright	69.000	74	11Bet Cas	2.2680	6600.0	138	12180	No
GOM_TRA_1PNPDE20040629_002506_000000492028_00102_12180_0023.N1	29-JUN-2004 00:25:06	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	12180	No
GOM_TRA_1PNPDE20040629_004643_000000432028_00102_12180_0000.N1	29-JUN-2004 00:46:43	Dark	43.000	165	34Gam Eri	2.9500	3200.0	86	12180	Yes
GOM_TRA_1PNPDE20040629_005709_000000892028_00102_12180_0001.N1	29-JUN-2004 00:57:09	Dark	88.500	52	16Bet Cet	2.0370	4500.0	177	12180	No
GOM_TRA_1PNPDE20040629_010108_000000462028_00103_12181_0002.N1	29-JUN-2004 01:01:08	Dark	46.000	9	Alp Eri	0.45300	24000.	92	12181	No
GOM_TRA_1PNPDE20040629_010553_000000402028_00103_12181_0003.N1	29-JUN-2004 01:05:53	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12181	No
GOM_TRA_1PNPDE20040629_010827_000000562028_00103_12181_0004.N1	29-JUN-2004 01:08:27	Dark	56.000	63	Bet Gru	2.1500	2800.0	112	12181	No
GOM_TRA_1PNPDE20040629_011025_000000522028_00103_12181_0005.N1	29-JUN-2004 01:10:25	Dark	52.000	31	Alp Gru	1.7340	15200.	104	12181	No
GOM_TRA_1PNPDE20040629_011332_000000502028_00103_12181_0006.N1	29-JUN-2004 01:13:32	Twilight	49.500	43	Alp TrA	1.9100	4250.0	99	12181	No
GOM_TRA_1PNPDE20040629_011654_000000422028_00103_12181_0007.N1	29-JUN-2004 01:16:54	Bright	42.000	141	Bet Ara	2.8400	4600.0	84	12181	No
GOM_TRA_1PNPDE20040629_011819_000000422028_00103_12181_0008.N1	29-JUN-2004 01:18:19	Bright	41.500	147	Alp Ara	2.8770	26000.	83	12181	No
GOM_TRA_1PNPDE20040629_012009_000000452028_00103_12181_0009.N1	29-JUN-2004 01:20:09	Bright	44.500	40	The Sco	1.8590	7100.0	89	12181	No
GOM_TRA_1PNPDE20040629_012147_000000462028_00103_12181_0010.N1	29-JUN-2004 01:21:47	Bright	46.000	25	35Lam Sco	1.6200	28000.	92	12181	No
GOM_TRA_1PNPDE20040629_012313_000000482028_00103_12181_0011.N1	29-JUN-2004 01:23:13	Bright	48.000	116	19Del Sgr	2.7000	4100.0	96	12181	No
GOM_TRA_1PNPDE20040629_012519_000000482028_00103_12181_0012.N1	29-JUN-2004 01:25:19	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	12181	No
GOM_TRA_1PNPDE20040629_012802_000000402028_00103_12181_0013.N1	29-JUN-2004 01:28:02	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	12181	No
GOM_TRA_1PNPDE20040629_012945_000000402028_00103_12181_0014.N1	29-JUN-2004 01:29:45	Bright	40.000	98	13Zet Oph	2.5710	30000.	80	12181	No
GOM_TRA_1PNPDE20040629_013157_000000392028_00103_12181_0015.N1	29-JUN-2004 01:31:57	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12181	No
GOM_TRA_1PNPDE20040629_013346_000000392028_00103_12181_0016.N1	29-JUN-2004 01:33:46	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	12181	No
GOM_TRA_1PNPDE20040629_013606_000000402028_00103_12181_0017.N1	29-JUN-2004 01:36:06	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	12181	No
GOM_TRA_1PNPDE20040629_013844_000000382028_00103_12181_0018.N1	29-JUN-2004 01:38:44	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	12181	No
GOM_TRA_1PNPDE20040629_014130_000000372028_00103_12181_0019.N1	29-JUN-2004 01:41:30	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	12181	No
GOM_TRA_1PNPDE20040629_014507_000000442028_00103_12181_0020.N1	29-JUN-2004 01:45:07	Bright	43.500	5	3Alp Lyr	0.033000	11000.	87	12181	No
GOM_TRA_1PNPDE20040629_014736_000000382028_00103_12181_0021.N1	29-JUN-2004 01:47:36	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	12181	No
GOM_TRA_1PNPDE20040629_022332_000000522028_00103_12181_0000.N1	29-JUN-2004 02:23:32	Dark	51.500	94	92Alp Cet	2.5260	3100.0	103	12181	Yes
GOM_TRA_1PNPDE20040629_022719_000000452028_00103_12181_0001.N1	29-JUN-2004 02:27:19	Dark	44.500	165	34Gam Eri	2.9500	3200.0	89	12181	No
GOM_TRA_1PNPDE20040629_023748_000000712028_00103_12181_0002.N1	29-JUN-2004 02:37:48	Dark	71.000	52	16Bet Cet	2.0370	4500.0	142	12181	No
GOM_TRA_1PNPDE20040629_024144_000000432028_00104_12182_0003.N1	29-JUN-2004 02:41:44	Dark	43.000	9	Alp Eri	0.45300	24000.	86	12182	No
GOM_TRA_1PNPDE20040629_024630_000000392028_00104_12182_0004.N1	29-JUN-2004 02:46:30	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	12182	No
GOM_TRA_1PNPDE20040629_024904_000000682028_00104_12182_0005.N1	29-JUN-2004 02:49:04	Dark	67.500	63	Bet Gru	2.1500	2800.0	135	12182	No
GOM_TRA_1PNPDE20040629_025102_000000542028_00104_12182_0006.N1	29-JUN-2004 02:51:02	Twilight	53.500	31	Alp Gru	1.7340	15200.	107	12182	No
GOM_TRA_1PNPDE20040629_025408_000000392028_00104_12182_0007.N1	29-JUN-2004 02:54:08	Twilight	38.500	43	Alp TrA	1.9100	4250.0	77	12182	No
GOM_TRA_1PNPDE20040629_025730_000000422028_00104_12182_0008.N1	29-JUN-2004 02:57:30	Bright	42.000	141	Bet Ara	2.8400	4600.0	84	12182	No
GOM_TRA_1PNPDE20040629_025855_000000442028_00104_12182_0009.N1	29-JUN-2004 02:58:55	Bright	43.500	147	Alp Ara	2.8770	26000.	87	12182	No
GOM_TRA_1PNPDE20040629_030045_000000432028_00104_12182_0010.N1	29-JUN-2004 03:00:45	Bright	43.000	40	The Sco	1.8590	7100.0	86	12182	No
GOM_TRA_1PNPDE20040629_030225_000000462028_00104_12182_0011.N1	29-JUN-2004 03:02:25	Bright	45.500	25	35Lam Sco	1.6200	28000.	91	12182	No
GOM_TRA_1PNPDE20040629_030349_000000562028_00104_12182_0012.N1	29-JUN-2004 03:03:49	Bright	56.000	116	19Del Sgr	2.7000	4100.0	112	12182	No
GOM_TRA_1PNPDE20040629_030553_000000492028_00104_12182_0013.N1	29-JUN-2004 03:05:53	Bright	49.000	155	41Pi Sgr	2.9000	6600.0	98	12182	No
GOM_TRA_1PNPDE20040629_030836_000000422028_00104_12182_0014.N1	29-JUN-2004 03:08:36	Bright	42.000	86	35Eta Oph	2.4300	10200.	84	12182	No
GOM_TRA_1PNPDE20040629_031023_000000392028_00104_12182_0015.N1	29-JUN-2004 03:10:23	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	12182	No
GOM_TRA_1PNPDE20040629_031234_000000382028_00104_12182_0016.N1	29-JUN-2004 03:12:34	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	12182	No
GOM_TRA_1PNPDE20040629_031421_000000402028_00104_12182_0017.N1	29-JUN-2004 03:14:21	Bright	40.000	126	60Bet Oph	2.7700	4250.0	80	12182	No
GOM_TRA_1PNPDE20040629_031642_000000412028_00104_12182_0018.N1	29-JUN-2004 03:16:42	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	12182	No

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



4. Overview of dark signal processing per product

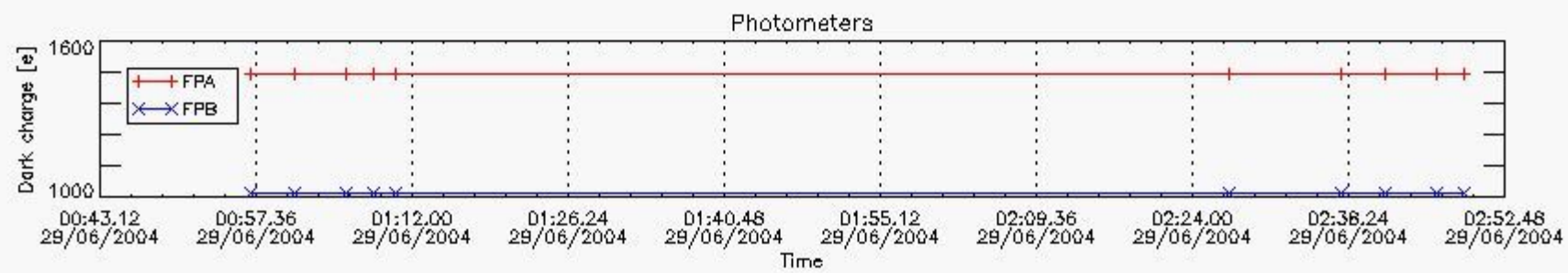
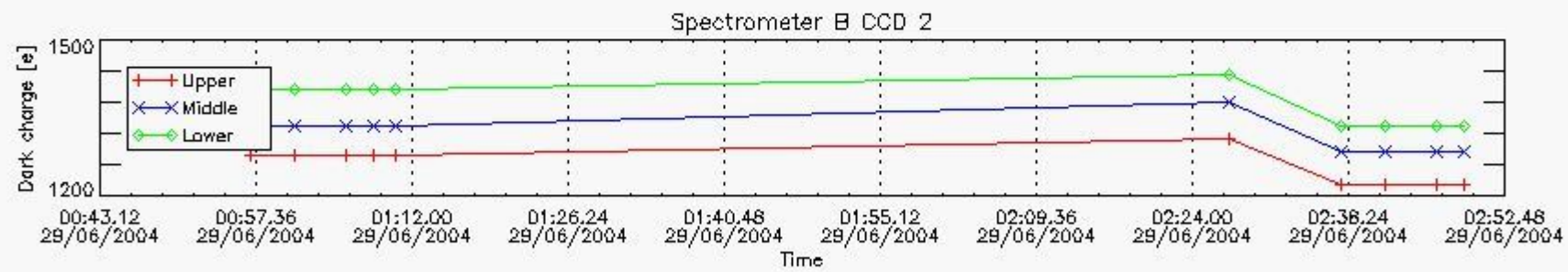
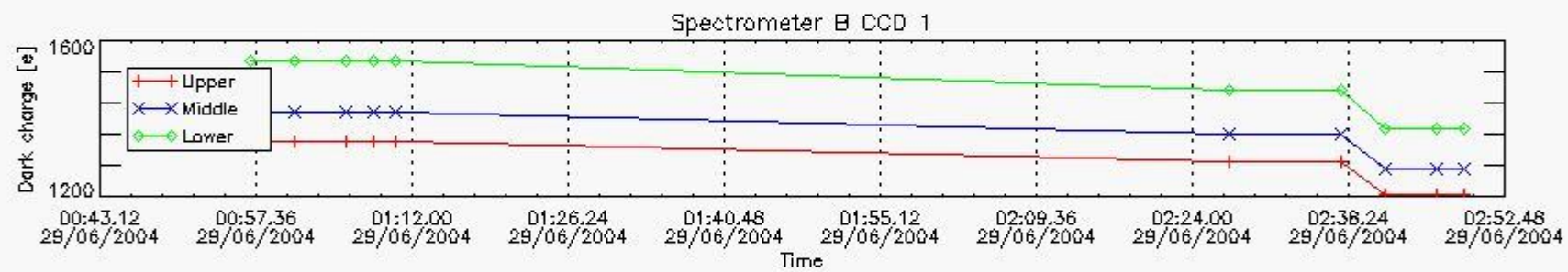
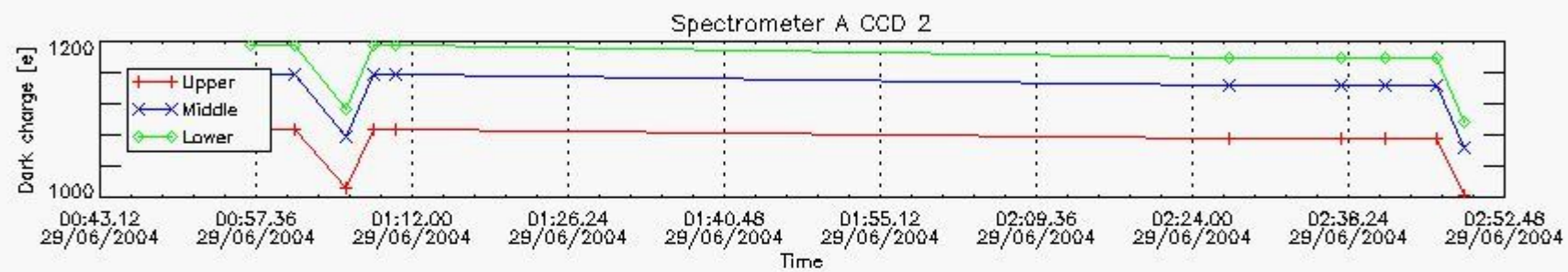
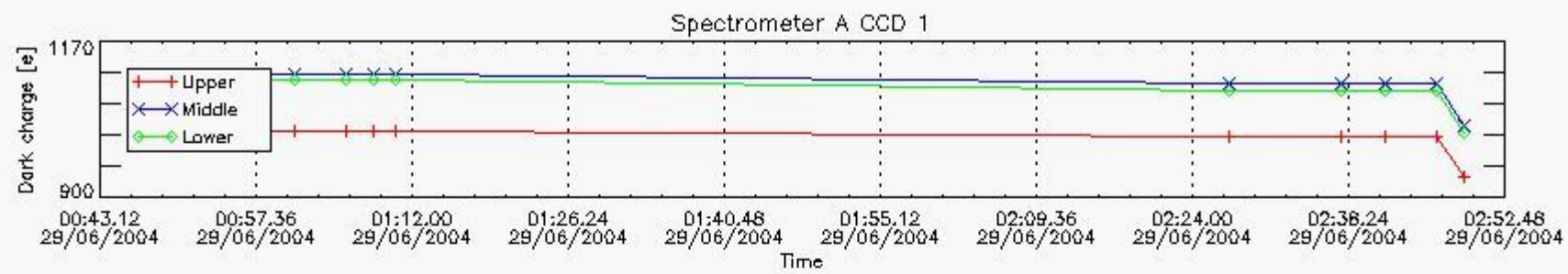
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040629_000054_000000382028_00102_12180_0016.N1	DC map used (0)
GOM_TRA_1PNPDE20040629_000432_000000462028_00102_12180_0017.N1	DC map used (0)
GOM_TRA_1PNPDE20040629_000701_000000402028_00102_12180_0018.N1	DC map used (0)
GOM_TRA_1PNPDE20040629_000919_000000352028_00102_12180_0019.N1	DC map used (0)
GOM_TRA_1PNPDE20040629_001316_000000342028_00102_12180_0020.N1	DC map used (0)
GOM_TRA_1PNPDE20040629_001608_000000482028_00102_12180_0021.N1	DC map used (0)
GOM_TRA_1PNPDE20040629_002326_000000692028_00102_12180_0022.N1	DC map used (0)
GOM_TRA_1PNPDE20040629_002506_000000492028_00102_12180_0023.N1	DC map used (0)

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



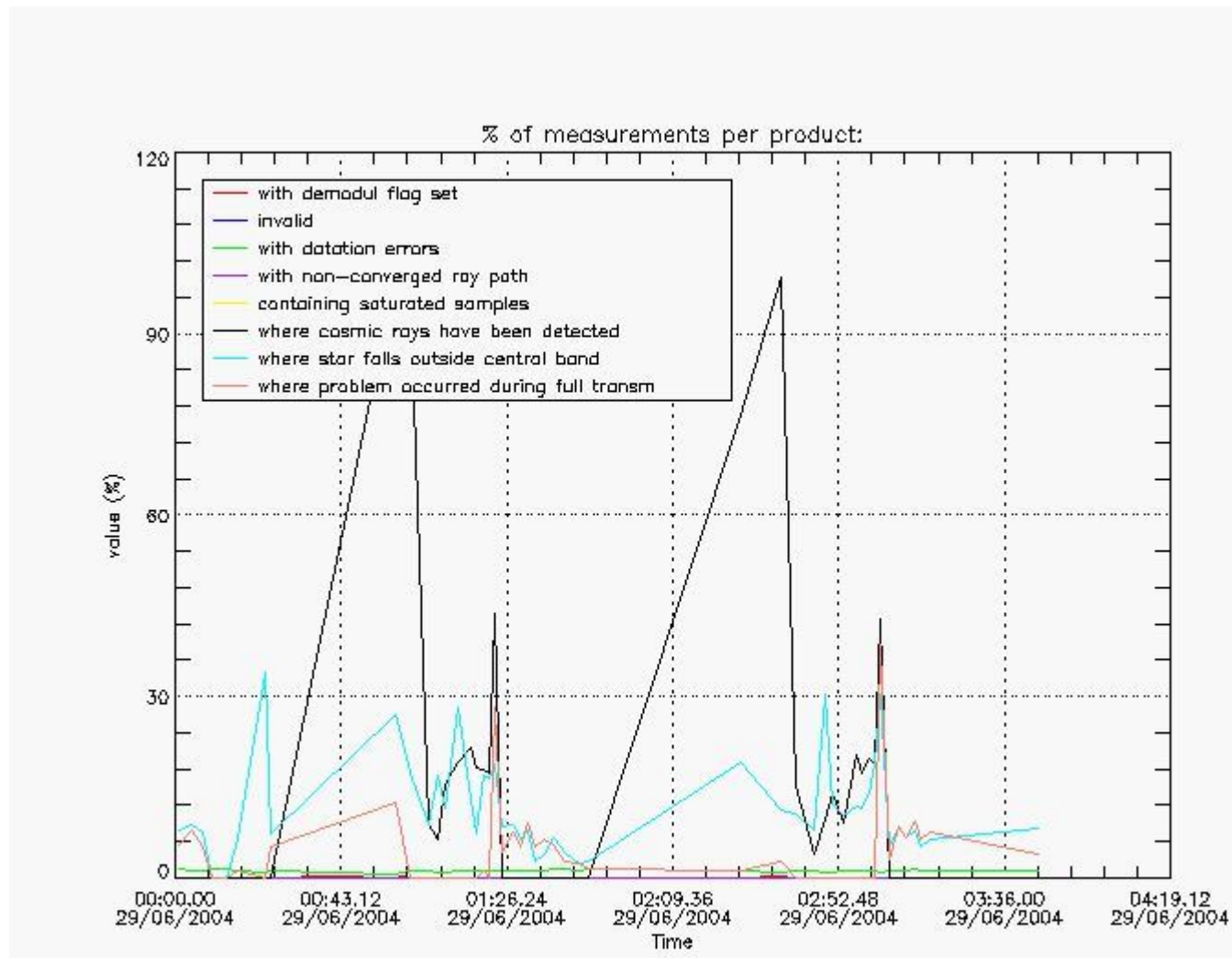
5. Demodulation flag and quality information monitoring

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:

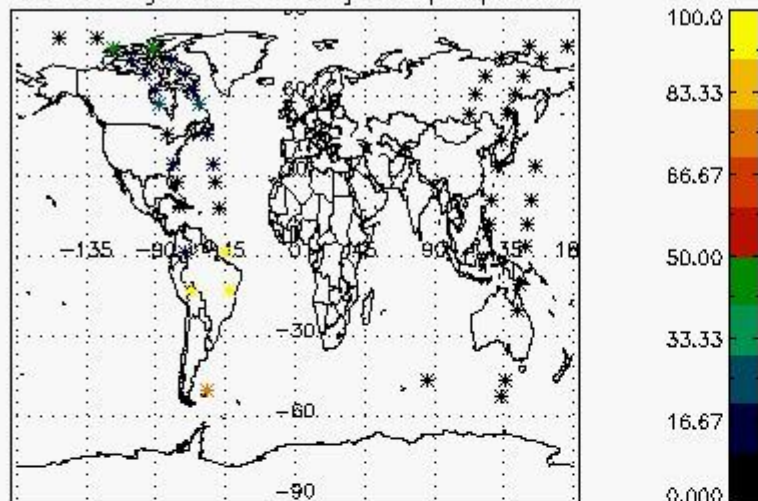
At least one measurement with demodulation flag set:	10.4167 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

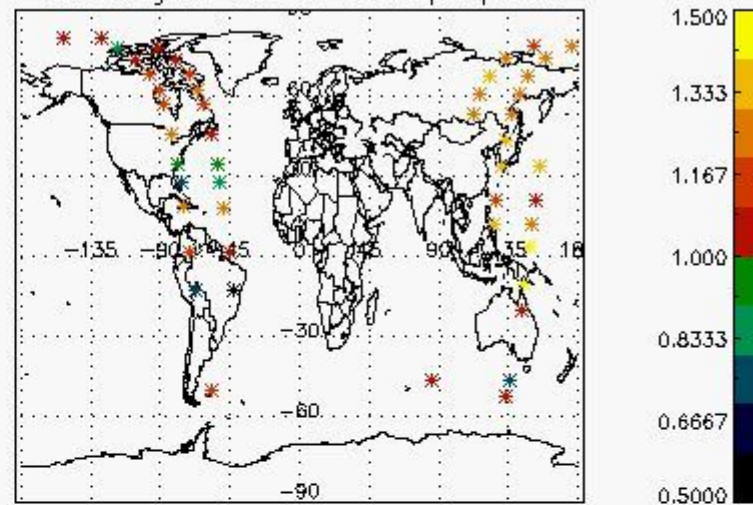


5.3 Plot quality information per product (world map)

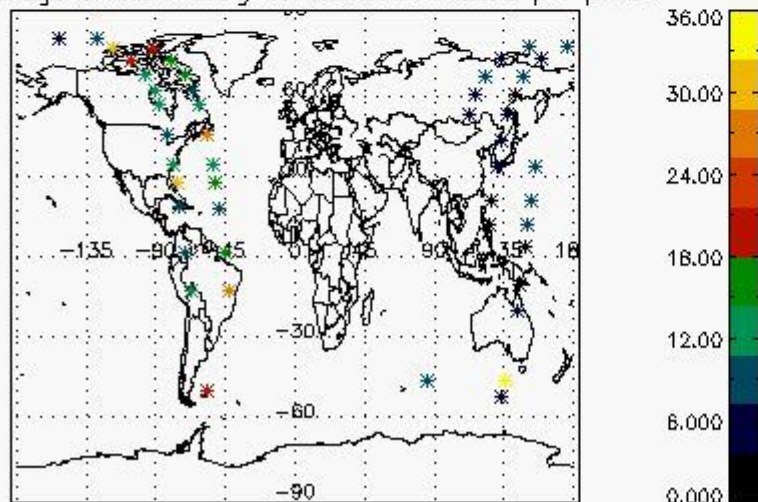
Percentage of cosmic ray hits per profile



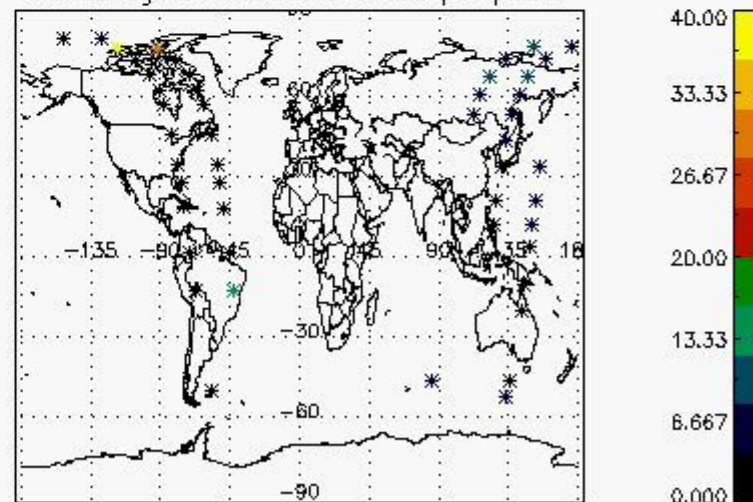
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



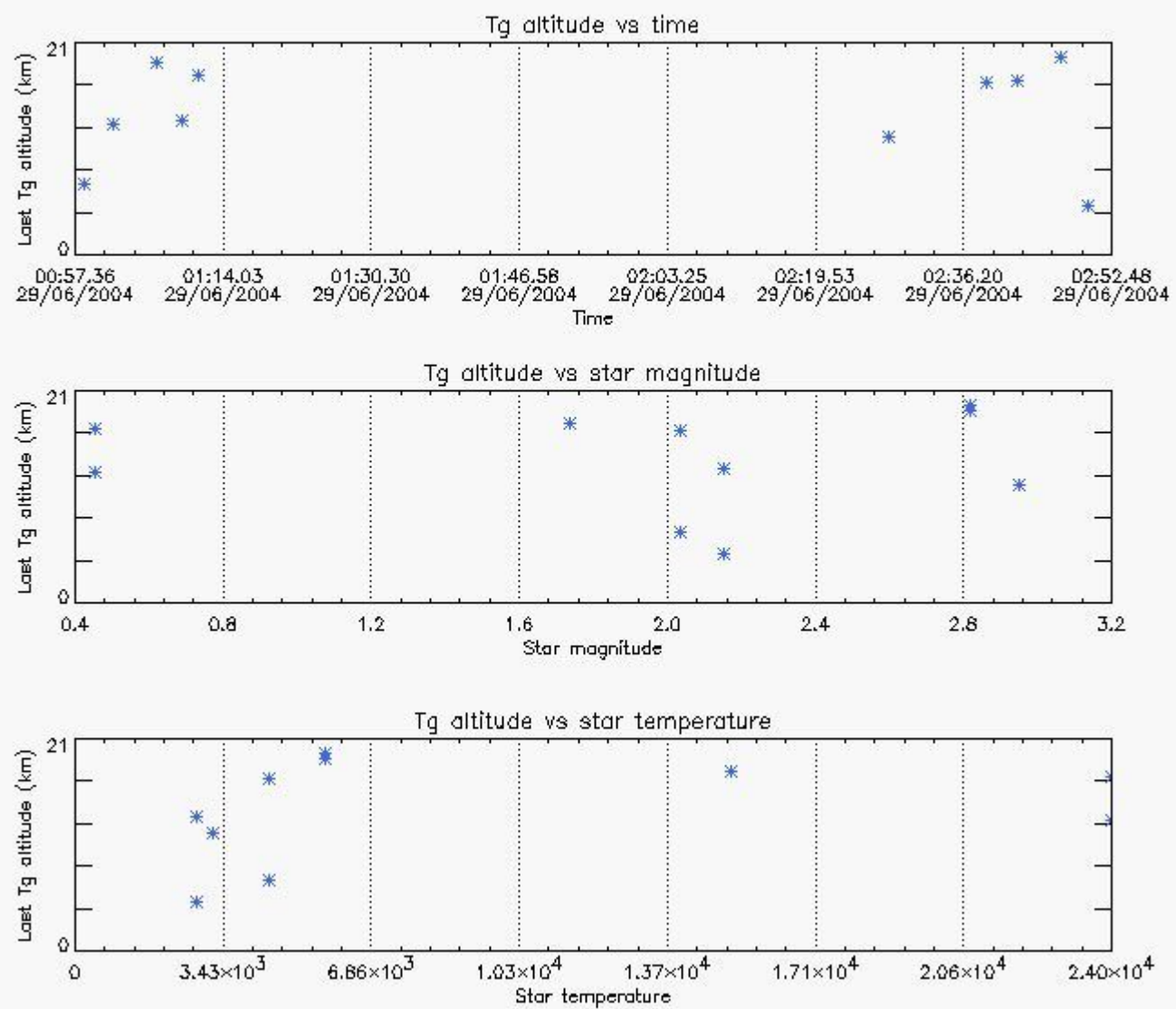
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.045	18.585	13.708
St. deviation:	5.0795	5.1764	6.5353
Maximum:	19.637	30.239	18.618
Minimum:	4.8615	4.3042	6.2900
Number of data:	10.000	35.000	3.0000

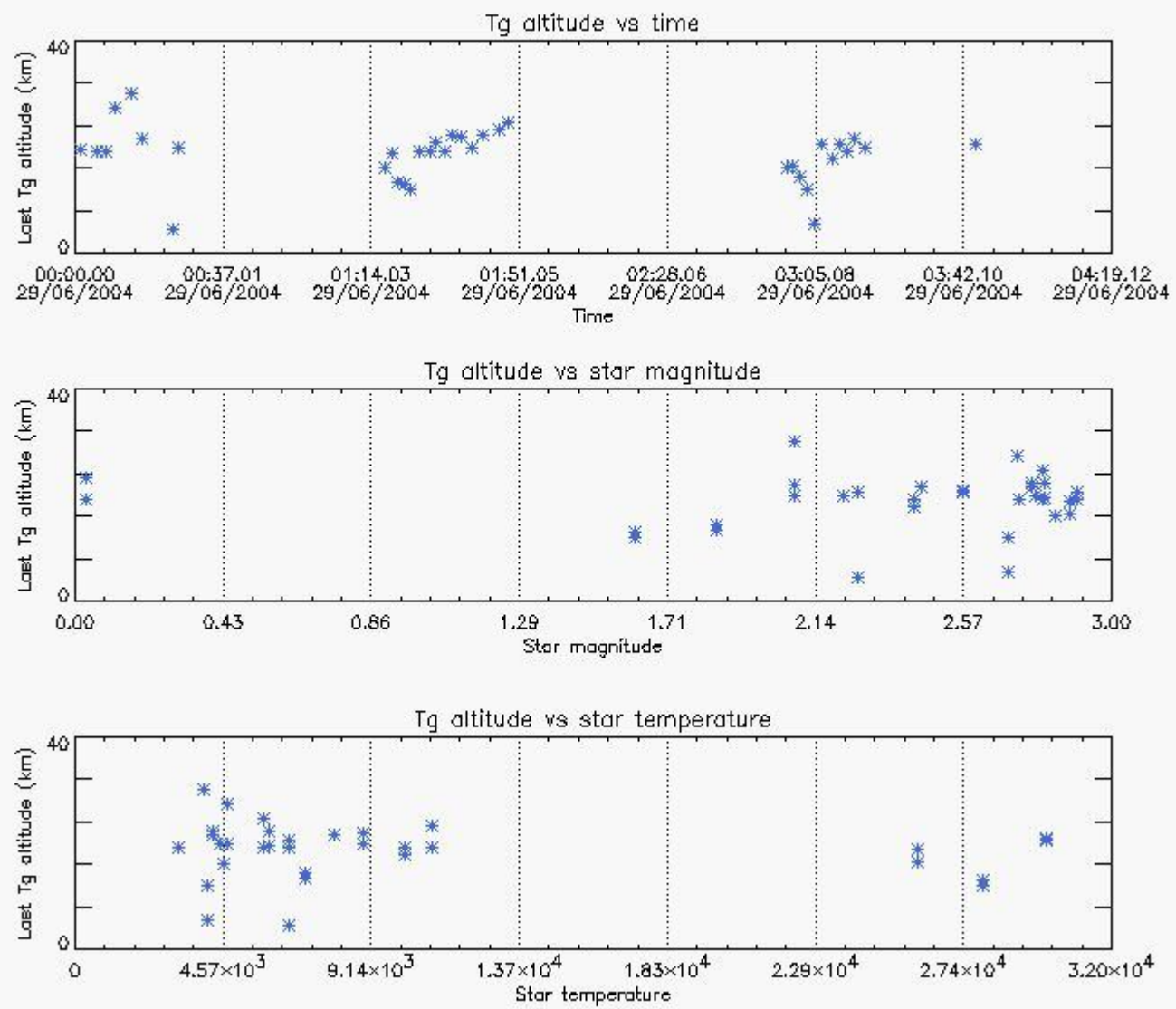
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



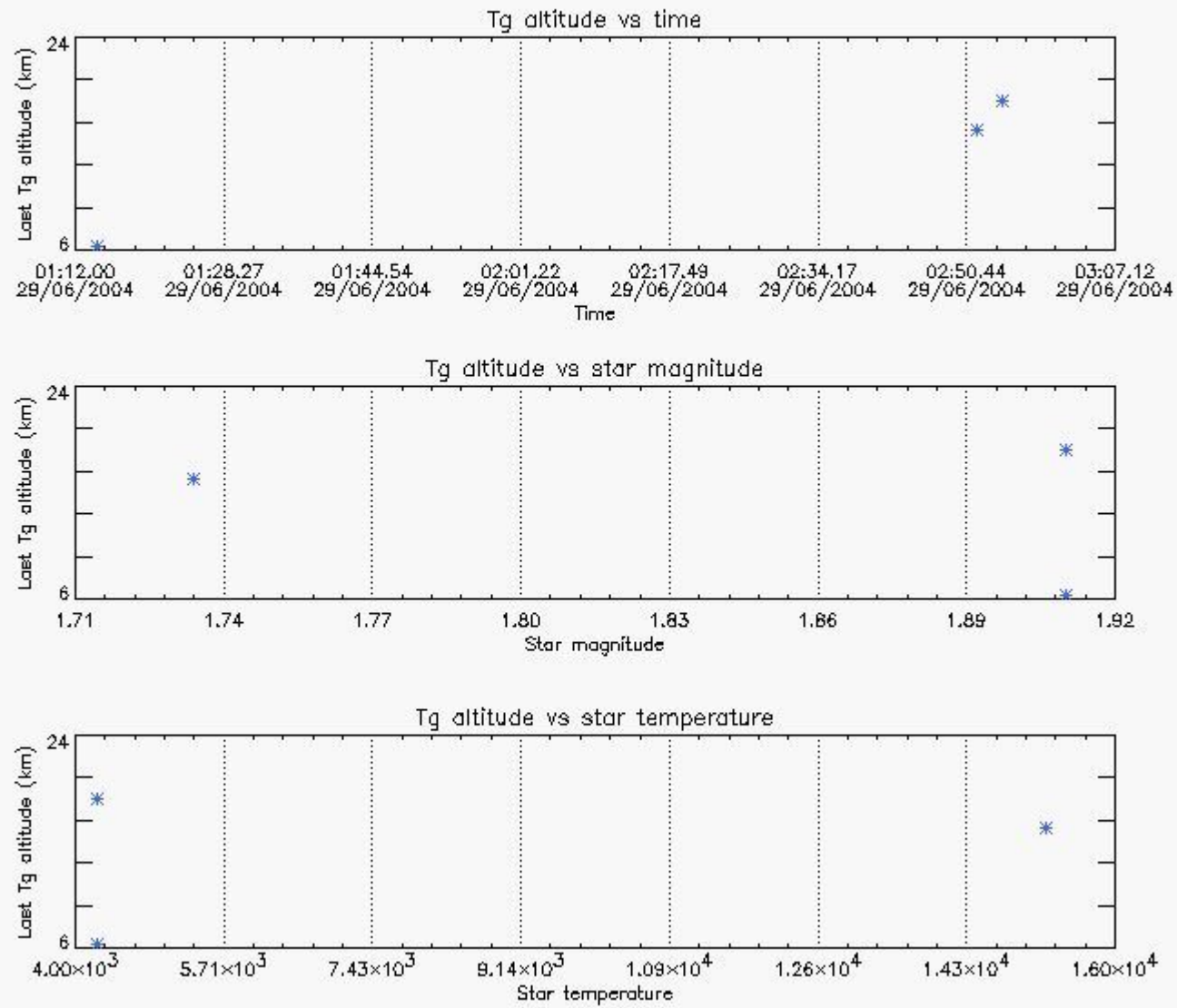
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

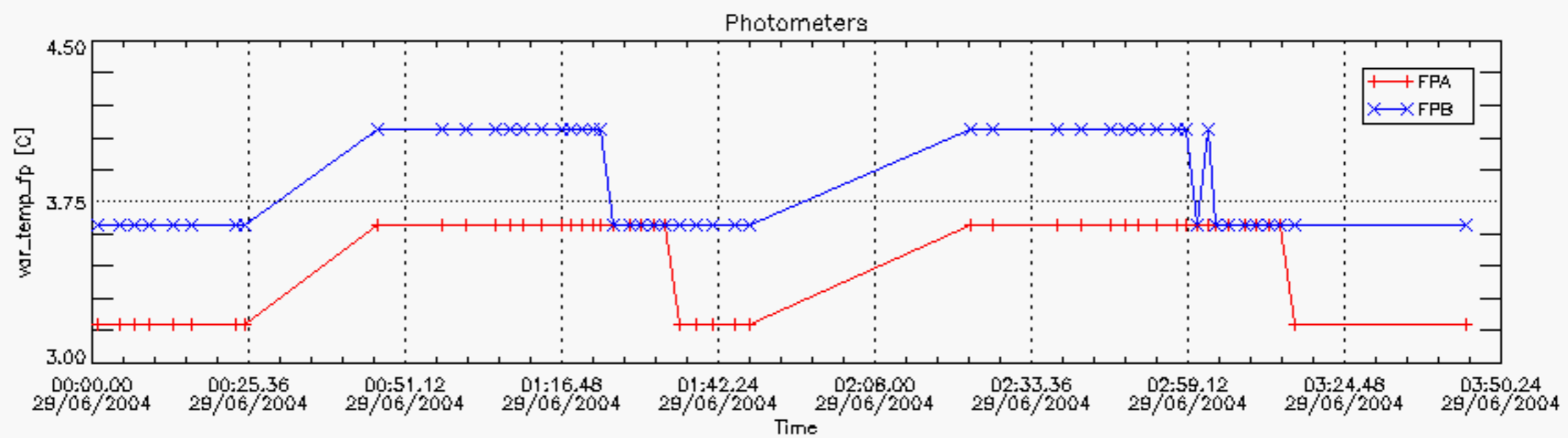
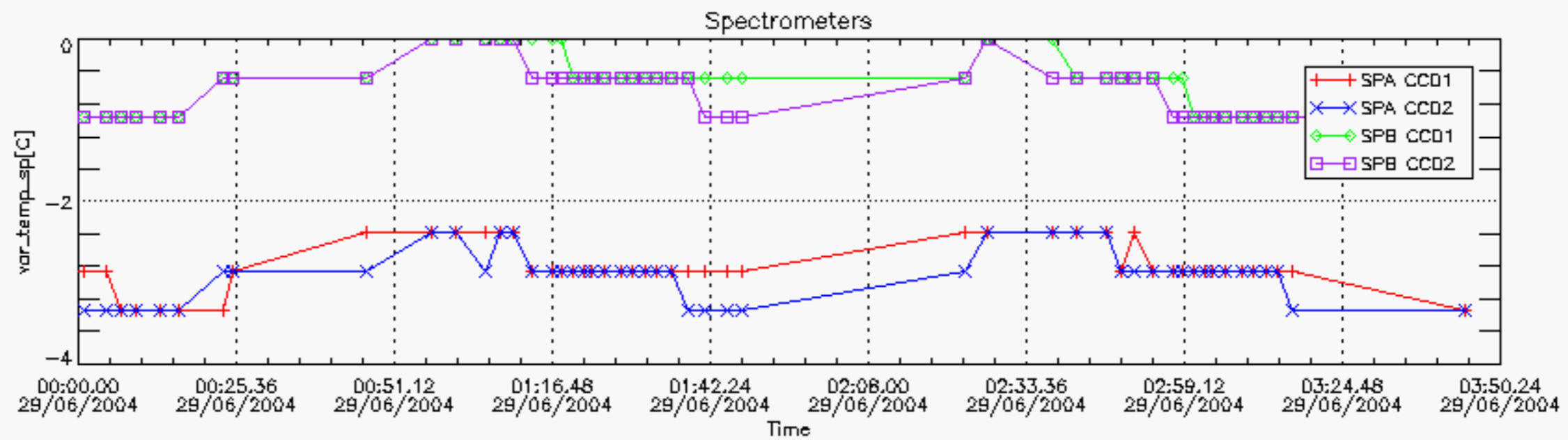
Tangent altitude at which the star is lost

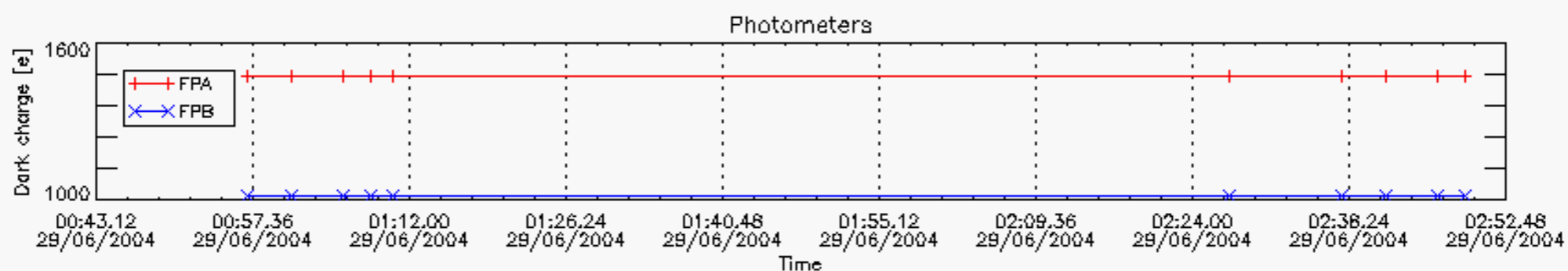
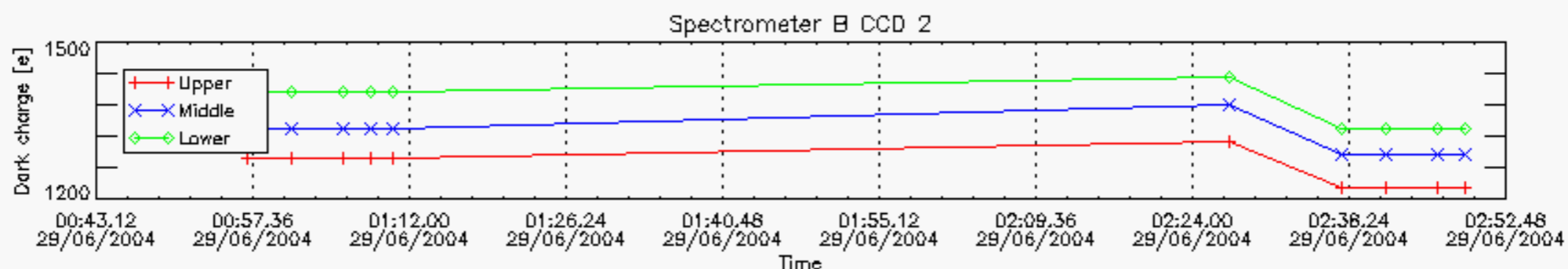
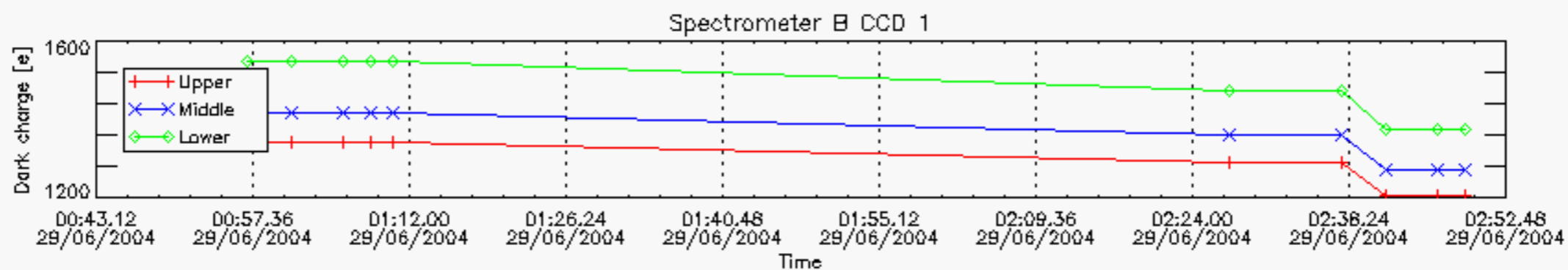
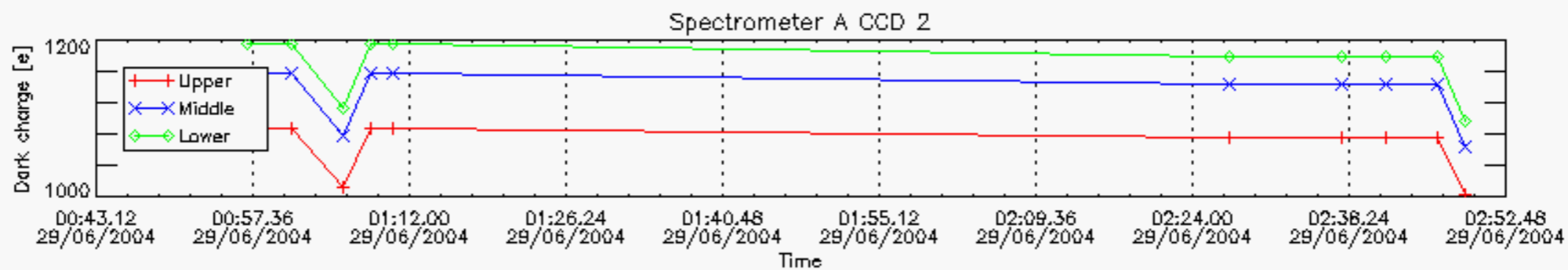
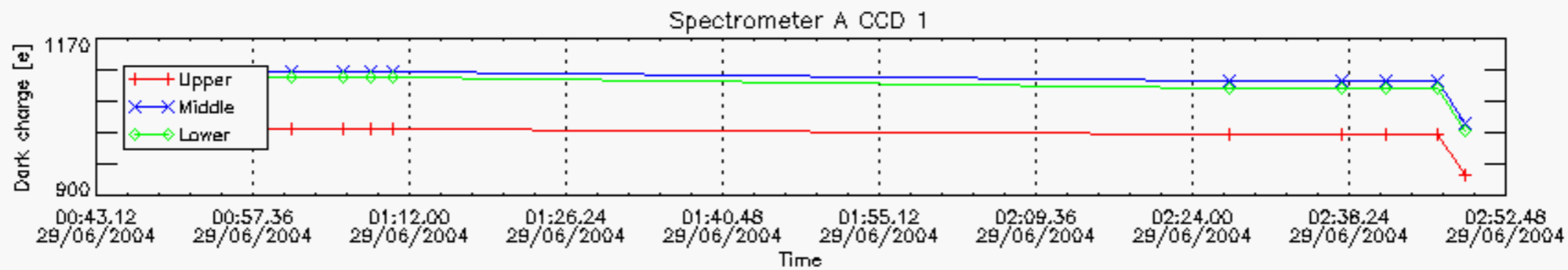


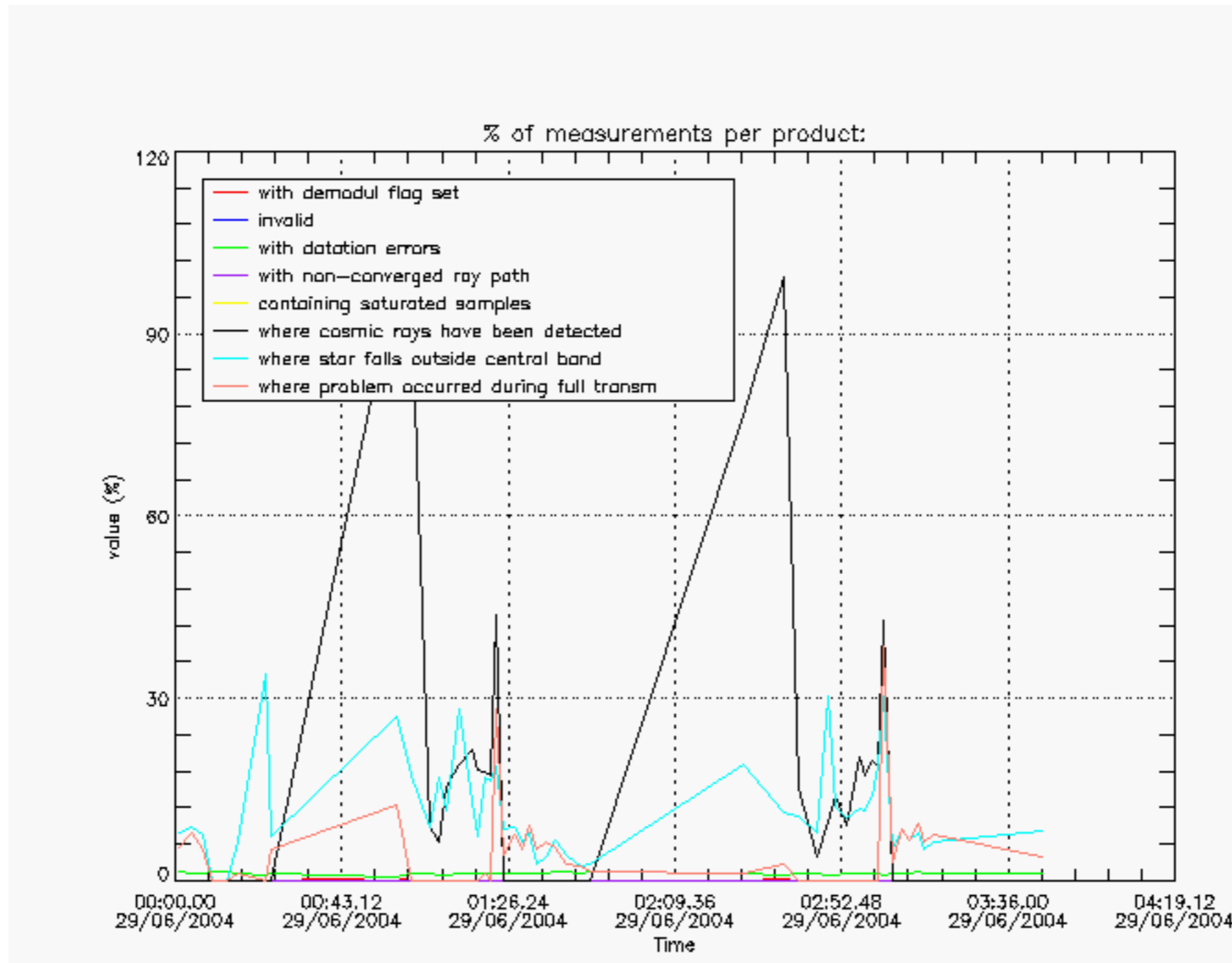
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

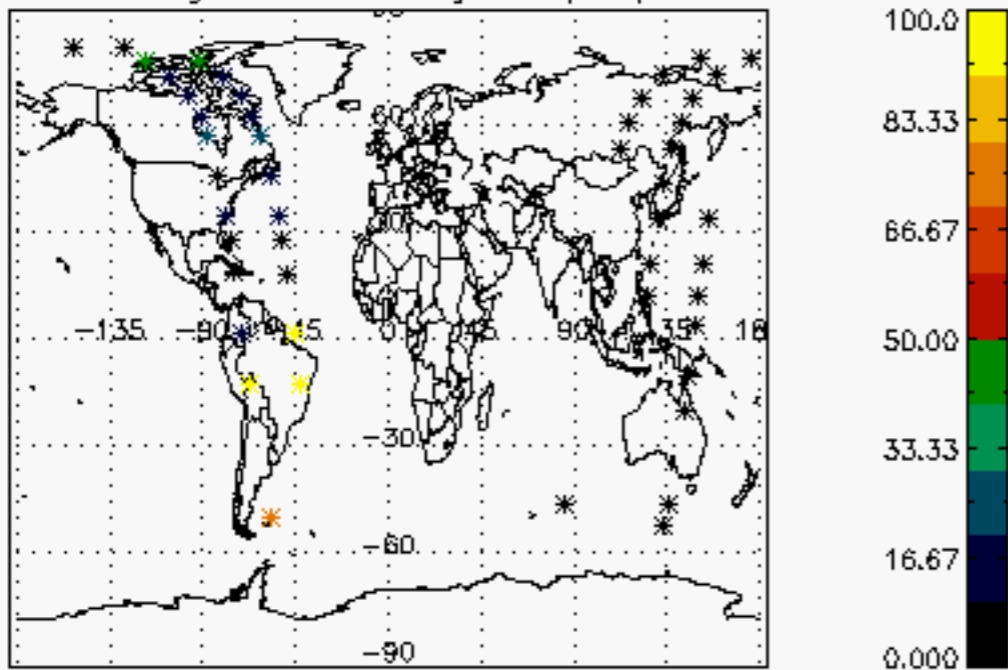
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.8	1447.3	1461.4	1447.0
St. deviation:	3.7155	4.7562	6.6149	7.6636
Maximum:	1514.0	1469.0	1503.0	1488.0
Minimum:	1449.0	1443.0	1438.0	1430.0
Number of data:	13700.	13700.	40600.	40600.



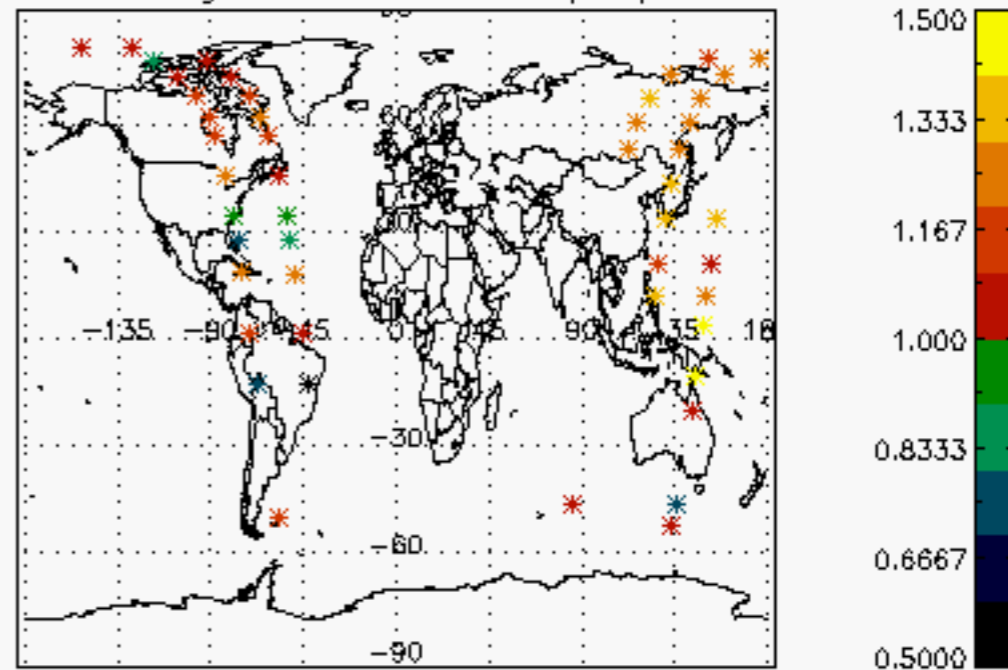




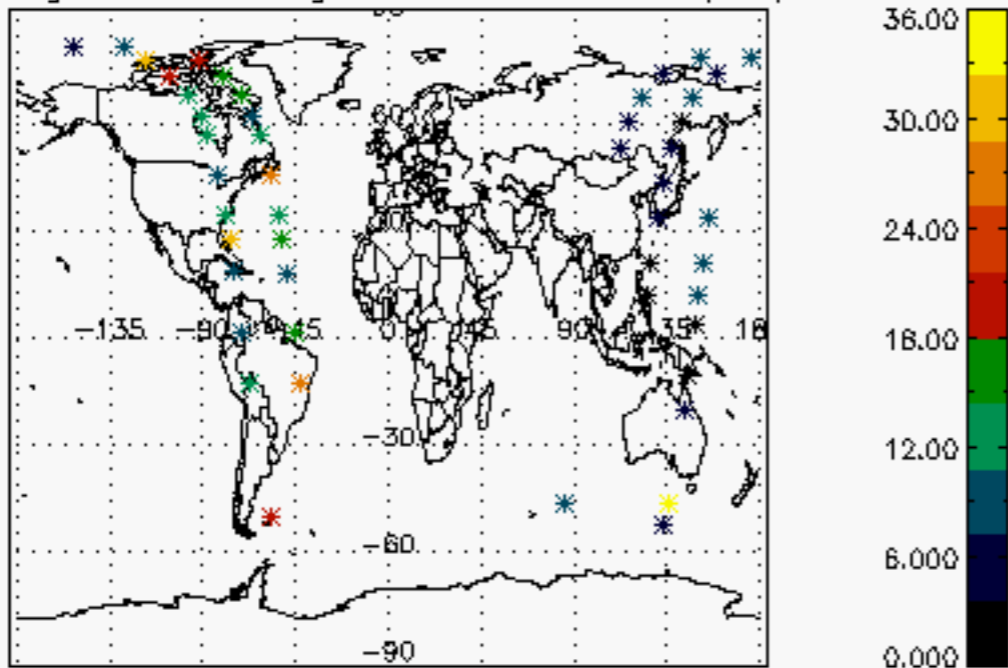
Percentage of cosmic ray hits per profile



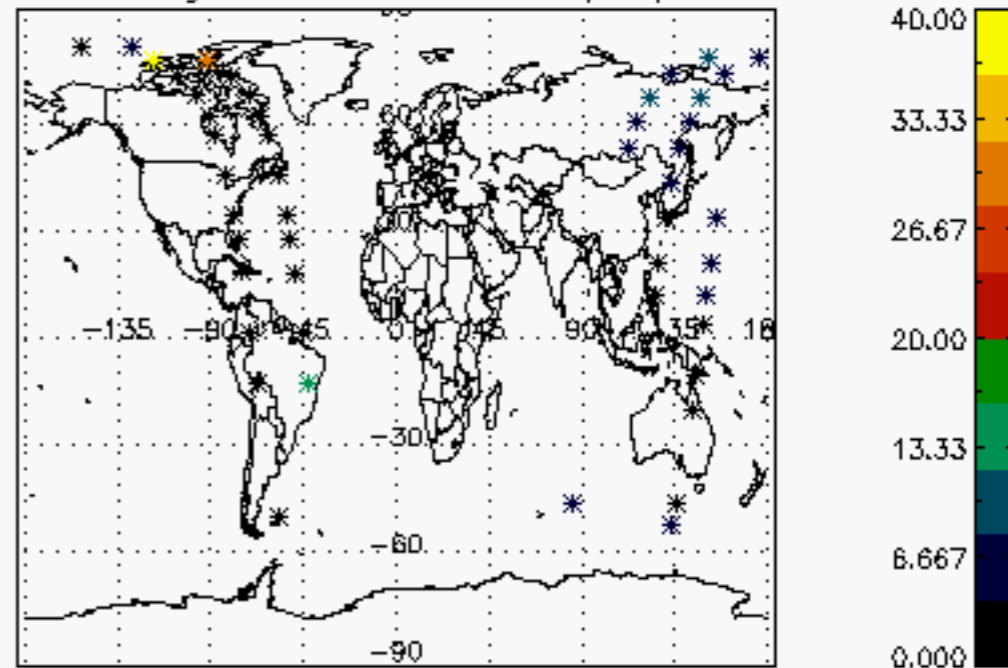
Percentage of datation errors per profile



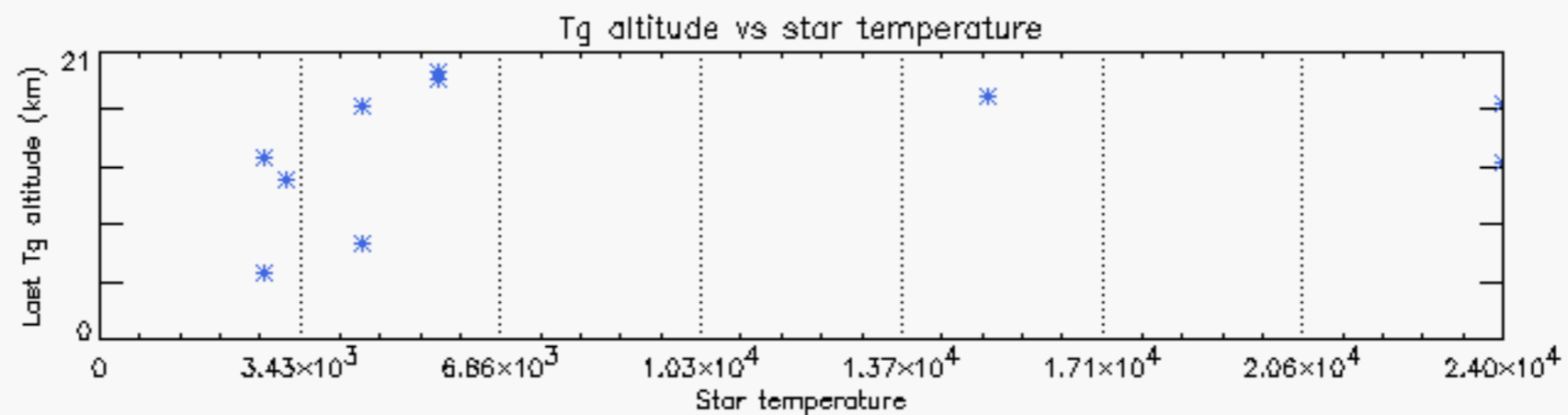
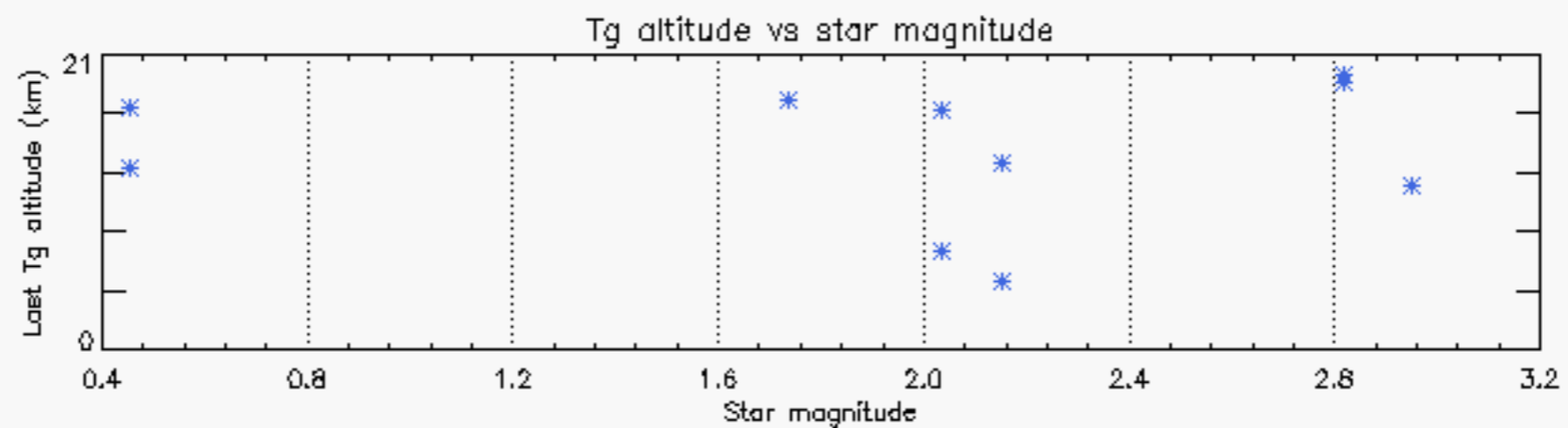
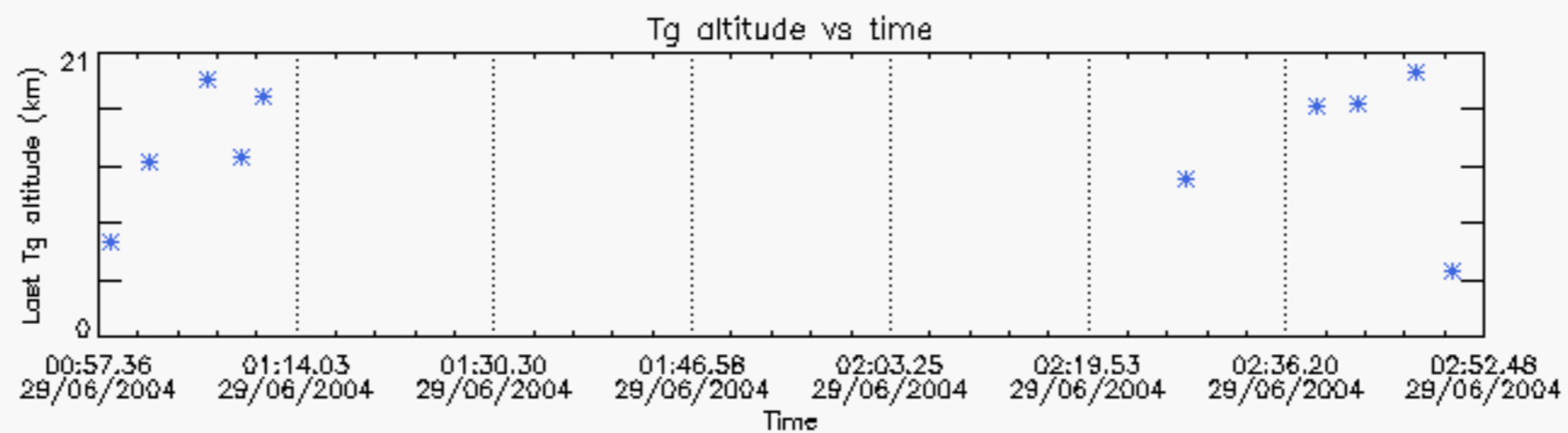
Percentage of star falling outside central band per profile



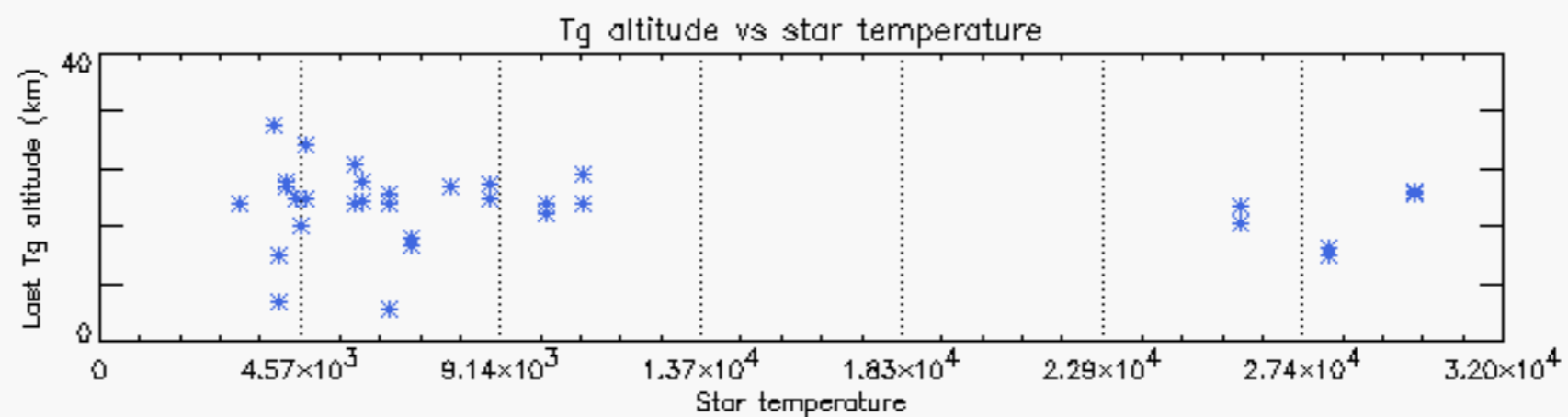
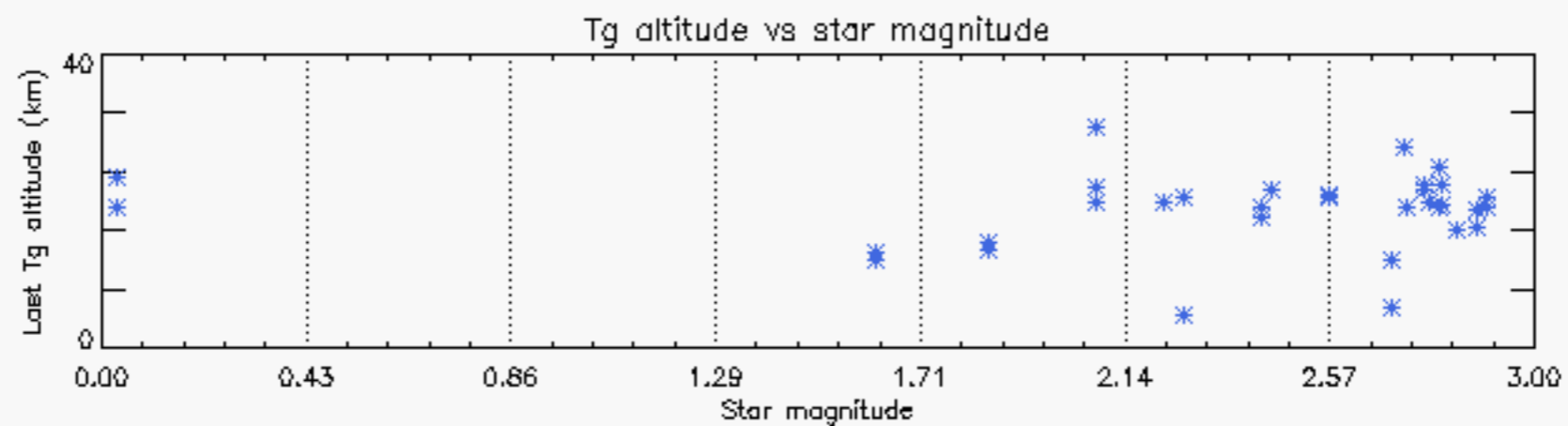
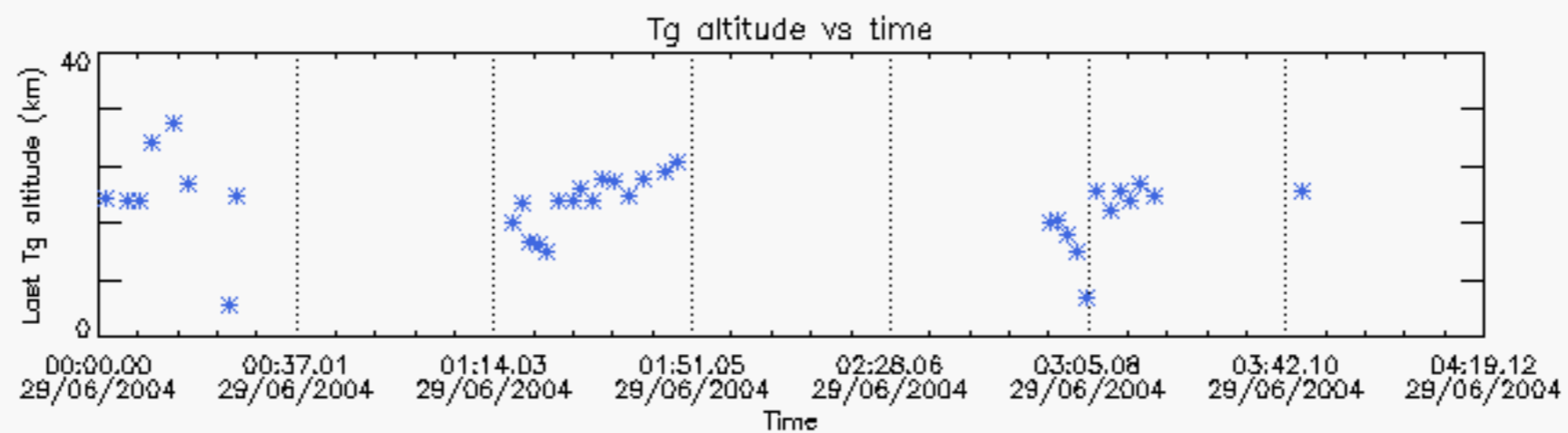
Percentage of saturation errors per profile



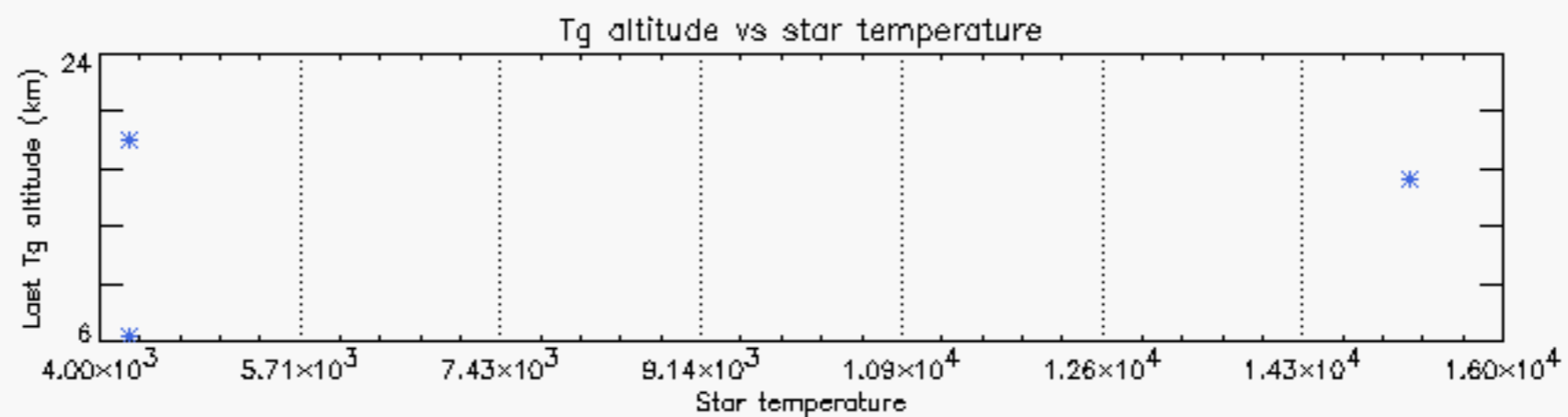
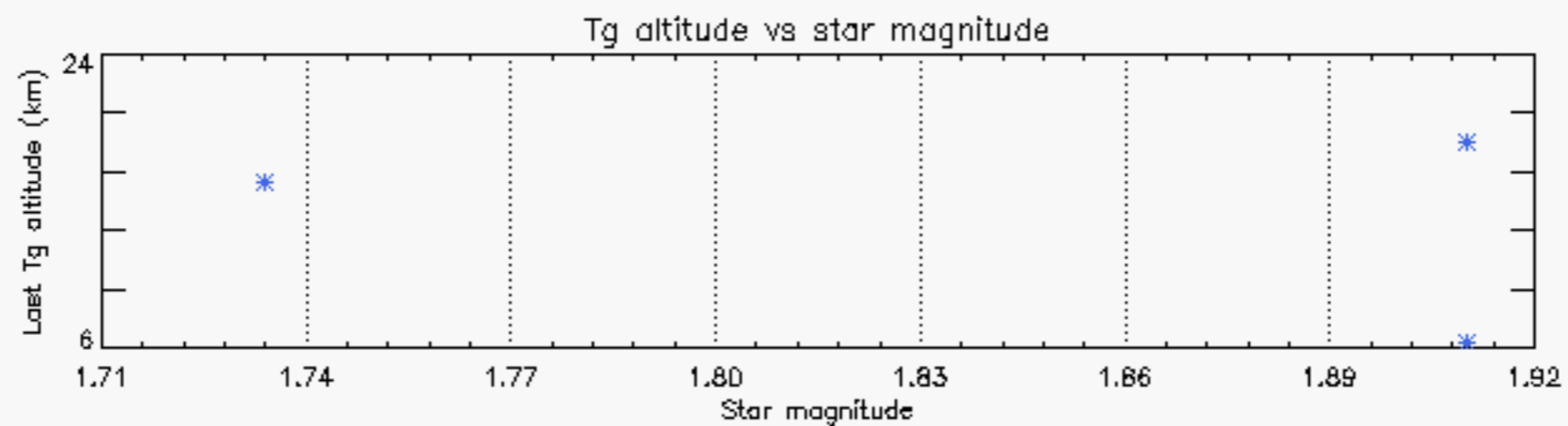
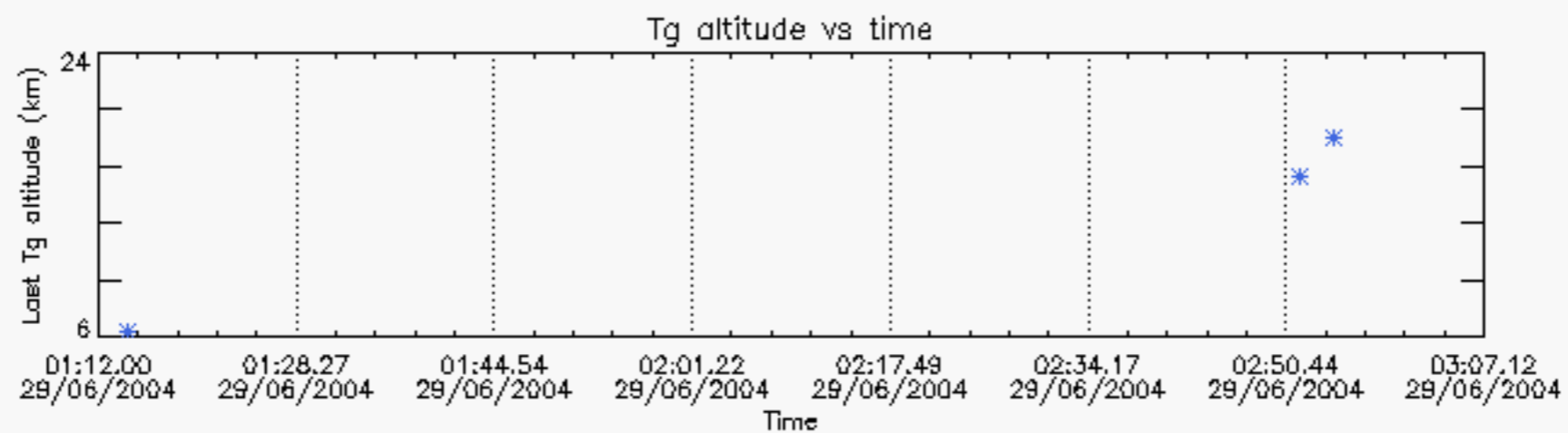
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 4;-4022.5; 01-JUN-2004 06:16:01; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;11783
 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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 21;-111.7; 01-JUN-2004 07:21:12; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;11783
 22; 83.3; 01-JUN-2004 07:24:27; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;11784
 23; 196.7; 01-JUN-2004 07:26:20; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;11784
 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
 34; 1701.5; 01-JUN-2004 07:51:25; Bright; 42.0; 98; 13Zet Oph ; 2.57; 30000;occ; 84; 0;11784

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 6;-3267.8; 01-JUN-2004 08:09:12; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;11784
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 21; 197.4; 01-JUN-2004 09:06:57; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11785
 22; 493.5; 01-JUN-2004 09:11:53; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;11785
 23; 707.7; 01-JUN-2004 09:15:27; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;11785
 24; 831.2; 01-JUN-2004 09:17:31; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;11785
 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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 27; 1146.7; 01-JUN-2004 09:22:46; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;11785
 28; 1252.1; 01-JUN-2004 09:24:32; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;11785
 29; 1373.6; 01-JUN-2004 09:26:33; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;11785
 30; 1498.2; 01-JUN-2004 09:28:38; Bright; 38.5; 80; 7Del Sco ; 2.32; 30000;occ; 77; 0;11785
 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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4;-3779.4; 01-JUN-2004 09:41:16; Bright; 38.5; 3; 16Alp Boo ;-0.05; 4250;occ; 77; 0;11785
5;-3669.2; 01-JUN-2004 09:43:06; Bright; 38.5; 67; 5Alp CrB ; 2.22; 11000;occ; 77; 0;11785
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17;-1384.9; 01-JUN-2004 10:21:10; Dark ; 92.0; 93; 53Bet Peg ; 2.52; 3100;occ; 184; 0;11785
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19; -972.5; 01-JUN-2004 10:28:03; Dark ; 90.5; 90; 54Alp Peg ; 2.49; 11000;occ; 181; 0;11785
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22; -237.6; 01-JUN-2004 10:40:18; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;11785
23; -111.6; 01-JUN-2004 10:42:24; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;11785
24; 84.9; 01-JUN-2004 10:45:40; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;11786
25; 198.2; 01-JUN-2004 10:47:34; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;11786
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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
29; 938.1; 01-JUN-2004 10:59:53; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;11786
30; 1039.3; 01-JUN-2004 11:01:35; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;11786
31; 1146.9; 01-JUN-2004 11:03:22; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;11786
32; 1252.1; 01-JUN-2004 11:05:07; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;11786
33; 1373.3; 01-JUN-2004 11:07:09; Dark ; 44.0; 136; 23Tau Sco ; 2.82; 30000;occ; 88; 0;11786
34; 1497.9; 01-JUN-2004 11:09:13; Bright; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;11786
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7;-3474.4; 01-JUN-2004 11:26:57; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;11786
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25; 85.5; 01-JUN-2004 12:26:17; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;11787
26; 198.9; 01-JUN-2004 12:28:10; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;11787
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
31; 1039.4; 01-JUN-2004 12:42:11; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;11787

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