

GOMOS Daily Report 27-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	28JUN2004 03:43:02
Data source version	GOMOS/4.02
Start time of products	27-JUN-2004 (27JUN2004 00:00:00)
Stop time of products	28-JUN-2004 (28JUN2004 00:00:00)

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

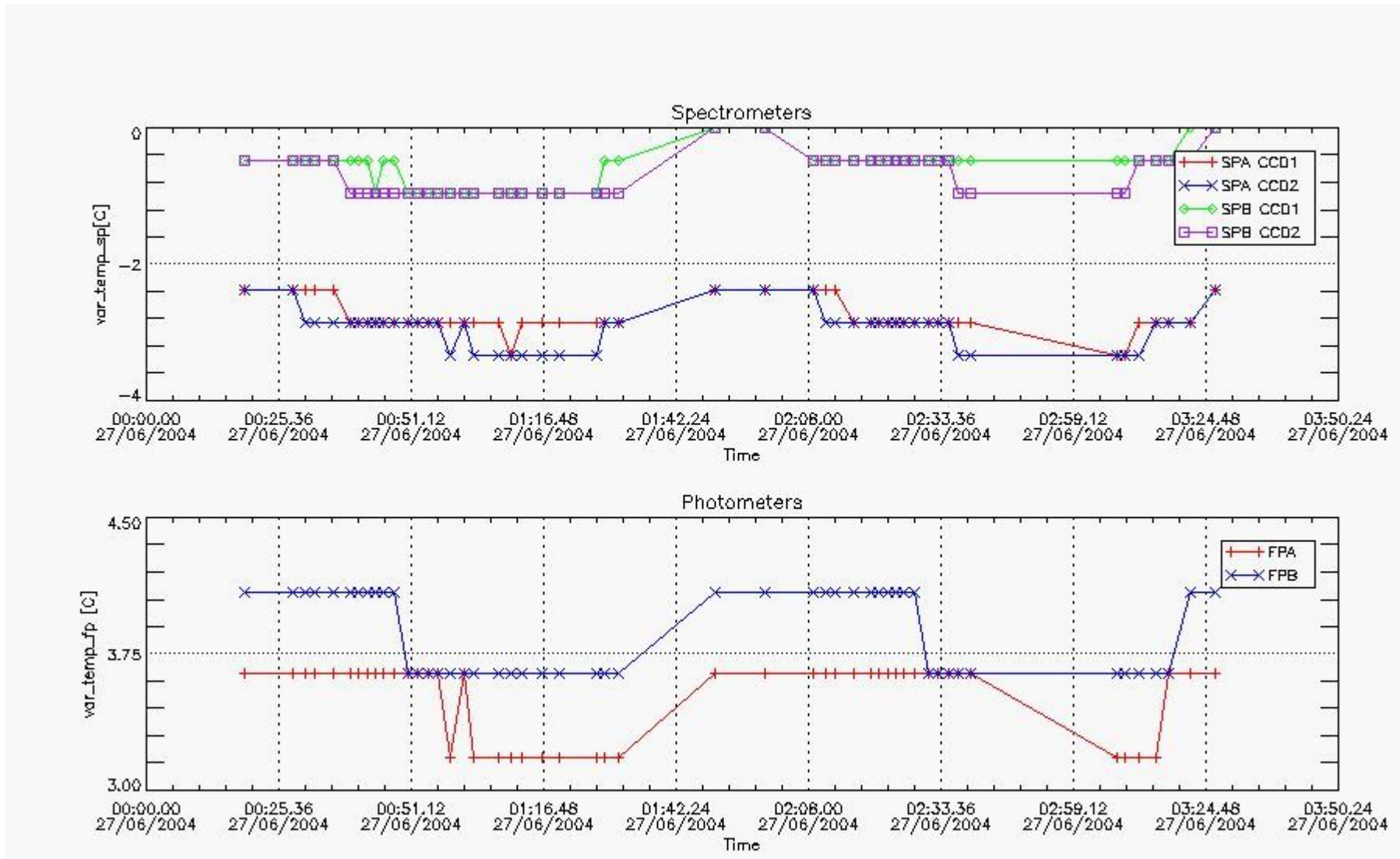
2. Summary of products arrived in PCF

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_1PNPDE20040627_001900_000000822028_00073_12151_0000.N1	27-JUN-2004 00:19:00	Dark	81.500	52	16Bet Cet	2.0370	4500.0	163	12151	No
GOM_TRA_1PNPDE20040627_002826_000000402028_00074_12152_0001.N1	27-JUN-2004 00:28:26	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12152	No
GOM_TRA_1PNPDE20040627_003037_000000572028_00074_12152_0002.N1	27-JUN-2004 00:30:37	Dark	57.000	63	Bet Gru	2.1500	2800.0	114	12152	No
GOM_TRA_1PNPDE20040627_003237_000000532028_00074_12152_0003.N1	27-JUN-2004 00:32:37	Dark	52.500	31	Alp Gru	1.7340	15200.	105	12152	No
GOM_TRA_1PNPDE20040627_003607_000000482028_00074_12152_0004.N1	27-JUN-2004 00:36:07	Twilight	47.500	43	Alp TrA	1.9100	4250.0	95	12152	No
GOM_TRA_1PNPDE20040627_003928_000000412028_00074_12152_0005.N1	27-JUN-2004 00:39:28	Bright	40.500	141	Bet Ara	2.8400	4600.0	81	12152	No
GOM_TRA_1PNPDE20040627_004053_000000412028_00074_12152_0006.N1	27-JUN-2004 00:40:53	Bright	40.500	147	Alp Ara	2.8770	26000.	81	12152	No
GOM_TRA_1PNPDE20040627_004241_000000412028_00074_12152_0007.N1	27-JUN-2004 00:42:41	Bright	41.000	40	The Sco	1.8590	7100.0	82	12152	No
GOM_TRA_1PNPDE20040627_004421_000000422028_00074_12152_0008.N1	27-JUN-2004 00:44:21	Bright	42.000	25	35Lam Sco	1.6200	28000.	84	12152	No
GOM_TRA_1PNPDE20040627_004542_000000502028_00074_12152_0009.N1	27-JUN-2004 00:45:42	Bright	49.500	116	19Del Sgr	2.7000	4100.0	99	12152	No
GOM_TRA_1PNPDE20040627_004752_000000472028_00074_12152_0010.N1	27-JUN-2004 00:47:52	Bright	47.000	155	41Pi Sgr	2.9000	6600.0	94	12152	No
GOM_TRA_1PNPDE20040627_005037_000000392028_00074_12152_0011.N1	27-JUN-2004 00:50:37	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	12152	No
GOM_TRA_1PNPDE20040627_005221_000000392028_00074_12152_0012.N1	27-JUN-2004 00:52:21	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	12152	No
GOM_TRA_1PNPDE20040627_005429_000000392028_00074_12152_0013.N1	27-JUN-2004 00:54:29	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12152	No
GOM_TRA_1PNPDE20040627_005623_000000422028_00074_12152_0014.N1	27-JUN-2004 00:56:23	Bright	42.000	126	60Bet Oph	2.7700	4250.0	84	12152	No
GOM_TRA_1PNPDE20040627_005847_000000402028_00074_12152_0015.N1	27-JUN-2004 00:58:47	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	12152	No
GOM_TRA_1PNPDE20040627_010119_000000402028_00074_12152_0016.N1	27-JUN-2004 01:01:19	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	12152	No
GOM_TRA_1PNPDE20040627_010322_000000382028_00074_12152_0017.N1	27-JUN-2004 01:03:22	Bright	38.000	67	5Alp CrB	2.2210	11000.	76	12152	No
GOM_TRA_1PNPDE20040627_010802_000000492028_00074_12152_0018.N1	27-JUN-2004 01:08:02	Bright	48.500	5	3Alp Lyr	0.033000	11000.	97	12152	No
GOM_TRA_1PNPDE20040627_011020_000000392028_00074_12152_0019.N1	27-JUN-2004 01:10:20	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	12152	No
GOM_TRA_1PNPDE20040627_011232_000000402028_00074_12152_0020.N1	27-JUN-2004 01:12:32	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	12152	No
GOM_TRA_1PNPDE20040627_011626_000000362028_00074_12152_0021.N1	27-JUN-2004 01:16:26	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	12152	No
GOM_TRA_1PNPDE20040627_011942_000000472028_00074_12152_0022.N1	27-JUN-2004 01:19:42	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	12152	No
GOM_TRA_1PNPDE20040627_012654_000000482028_00074_12152_0023.N1	27-JUN-2004 01:26:54	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	12152	No
GOM_TRA_1PNPDE20040627_012832_000000472028_00074_12152_0024.N1	27-JUN-2004 01:28:32	Bright	46.500	68	18Alp Cas	2.2250	4500.0	93	12152	No
GOM_TRA_1PNPDE20040627_013106_000000452028_00074_12152_0025.N1	27-JUN-2004 01:31:06	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	12152	No
GOM_TRA_1PNPDE20040627_014949_000000422028_00074_12152_0000.N1	27-JUN-2004 01:49:49	Dark	42.000	165	34Gam Eri	2.9500	3200.0	84	12152	No
GOM_TRA_1PNPDE20040627_015939_000000822028_00074_12152_0001.N1	27-JUN-2004 01:59:39	Dark	82.000	52	16Bet Cet	2.0370	4500.0	164	12152	No
GOM_TRA_1PNPDE20040627_020902_000000392028_00075_12153_0002.N1	27-JUN-2004 02:09:02	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	12153	No
GOM_TRA_1PNPDE20040627_021114_000000662028_00075_12153_0003.N1	27-JUN-2004 02:11:14	Dark	66.000	63	Bet Gru	2.1500	2800.0	132	12153	No
GOM_TRA_1PNPDE20040627_021314_000000522028_00075_12153_0004.N1	27-JUN-2004 02:13:14	Dark	52.000	31	Alp Gru	1.7340	15200.	104	12153	No
GOM_TRA_1PNPDE20040627_021643_000000502028_00075_12153_0005.N1	27-JUN-2004 02:16:43	Twilight	49.500	43	Alp TrA	1.9100	4250.0	99	12153	No
GOM_TRA_1PNPDE20040627_022004_000000432028_00075_12153_0006.N1	27-JUN-2004 02:20:04	Bright	43.000	141	Bet Ara	2.8400	4600.0	86	12153	No
GOM_TRA_1PNPDE20040627_022128_000000422028_00075_12153_0007.N1	27-JUN-2004 02:21:28	Bright	42.000	147	Alp Ara	2.8770	26000.	84	12153	No
GOM_TRA_1PNPDE20040627_022317_000000452028_00075_12153_0008.N1	27-JUN-2004 02:23:17	Bright	45.000	40	The Sco	1.8590	7100.0	90	12153	No
GOM_TRA_1PNPDE20040627_022457_000000472028_00075_12153_0009.N1	27-JUN-2004 02:24:57	Bright	46.500	25	35Lam Sco	1.6200	28000.	93	12153	No
GOM_TRA_1PNPDE20040627_022618_000000522028_00075_12153_0010.N1	27-JUN-2004 02:26:18	Bright	51.500	116	19Del Sgr	2.7000	4100.0	103	12153	No
GOM_TRA_1PNPDE20040627_022829_000000492028_00075_12153_0011.N1	27-JUN-2004 02:28:29	Bright	49.000	155	41Pi Sgr	2.9000	6600.0	98	12153	No
GOM_TRA_1PNPDE20040627_023110_000000422028_00075_12153_0012.N1	27-JUN-2004 02:31:10	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	12153	No
GOM_TRA_1PNPDE20040627_023257_000000382028_00075_12153_0013.N1	27-JUN-2004 02:32:57	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12153	No
GOM_TRA_1PNPDE20040627_023505_000000392028_00075_12153_0014.N1	27-JUN-2004 02:35:05	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12153	No
GOM_TRA_1PNPDE20040627_023701_000000412028_00075_12153_0015.N1	27-JUN-2004 02:37:01	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	12153	No
GOM_TRA_1PNPDE20040627_023924_000000392028_00075_12153_0016.N1	27-JUN-2004 02:39:24	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	12153	No
GOM_TRA_1PNPDE20040627_030729_000000642028_00075_12153_0000.N1	27-JUN-2004 03:07:29	Bright	63.500	74	11Bet Cas	2.2680	6600.0	127	12153	No
GOM_TRA_1PNPDE20040627_030907_000000472028_00075_12153_0001.N1	27-JUN-2004 03:09:07	Bright	47.000	68	18Alp Cas	2.2250	4500.0	94	12153	No
GOM_TRA_1PNPDE20040627_031142_000000392028_00075_12153_0002.N1	27-JUN-2004 03:11:42	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	12153	No
GOM_TRA_1PNPDE20040627_031508_000000462028_00075_12153_0003.N1	27-JUN-2004 03:15:08	Twilight	45.500	73	57Gam1And	2.2600	13100.	91	12153	No
GOM_TRA_1PNPDE20040627_031737_000000782028_00075_12153_0004.N1	27-JUN-2004 03:17:37	Twilight	77.500	53	43Bet And	2.0480	3300.0	155	12153	No
GOM_TRA_1PNPDE20040627_032142_000000562028_00075_12153_0005.N1	27-JUN-2004 03:21:42	Twilight	56.000	50	13Alp Ari	2.0070	4250.0	112	12153	No

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



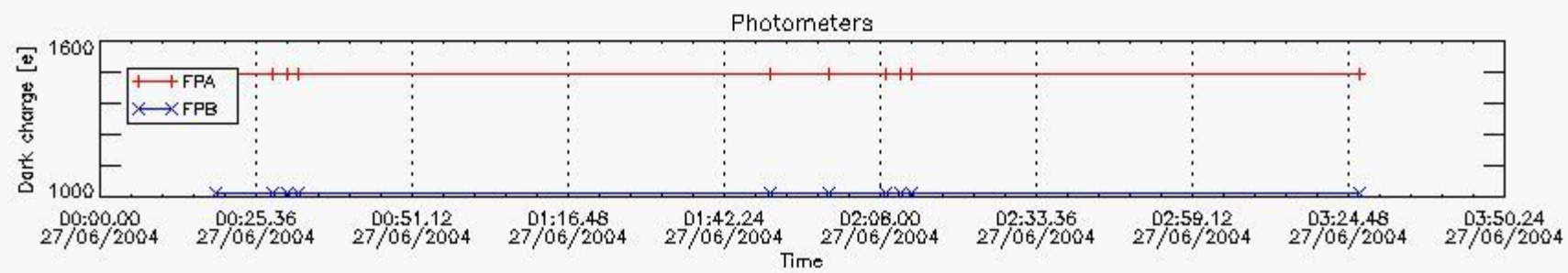
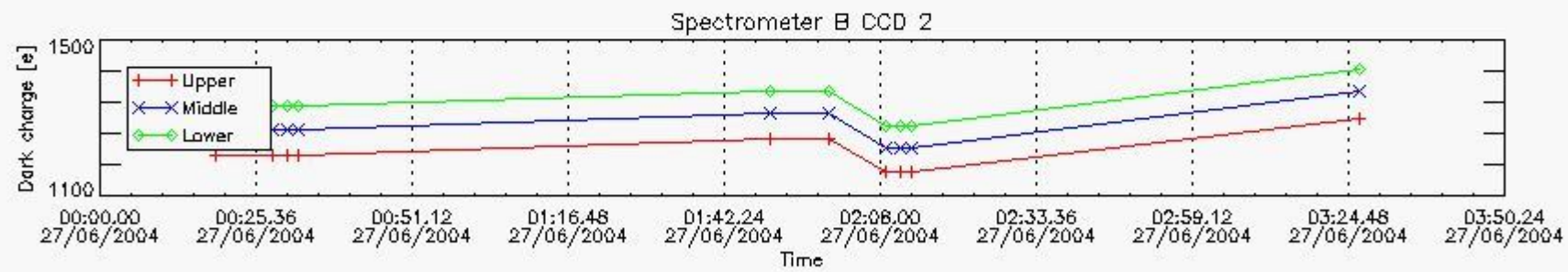
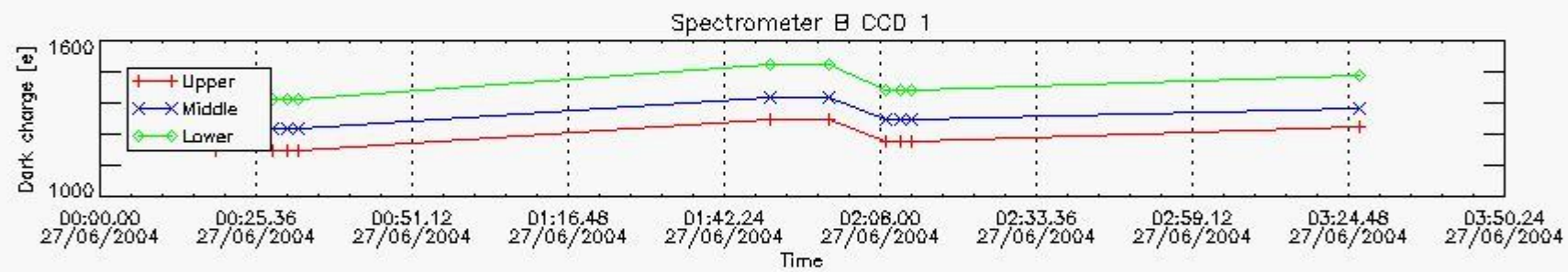
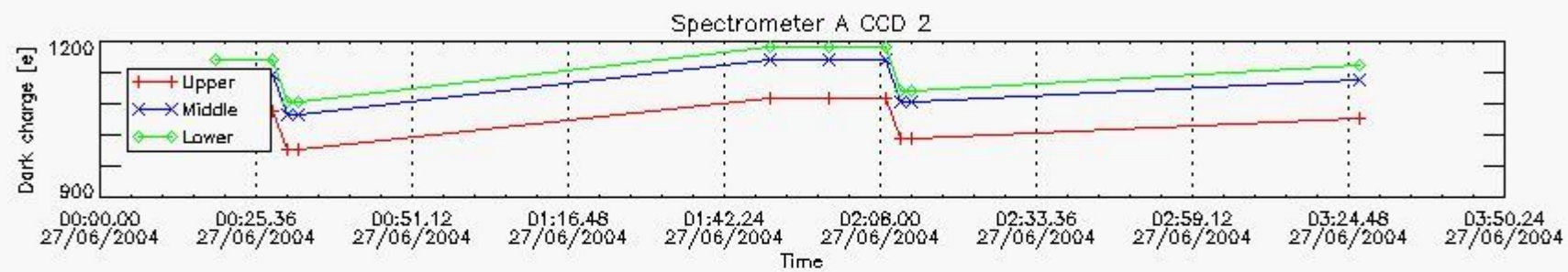
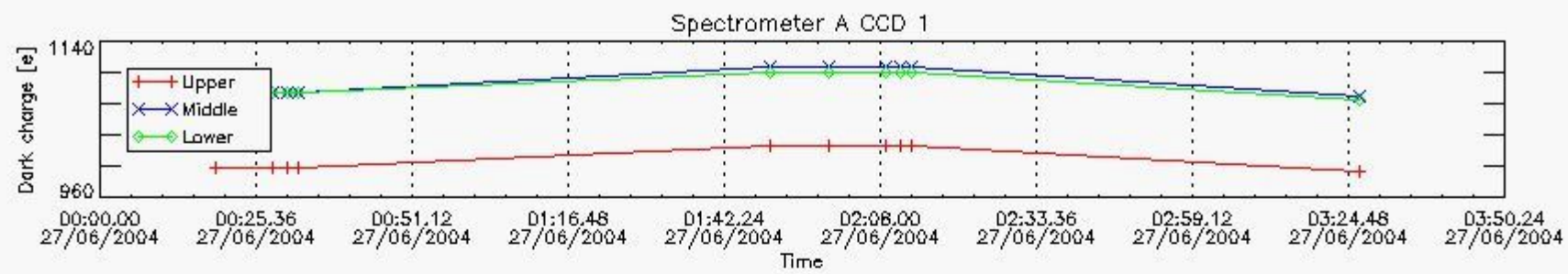
4. Overview of dark signal processing per product

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



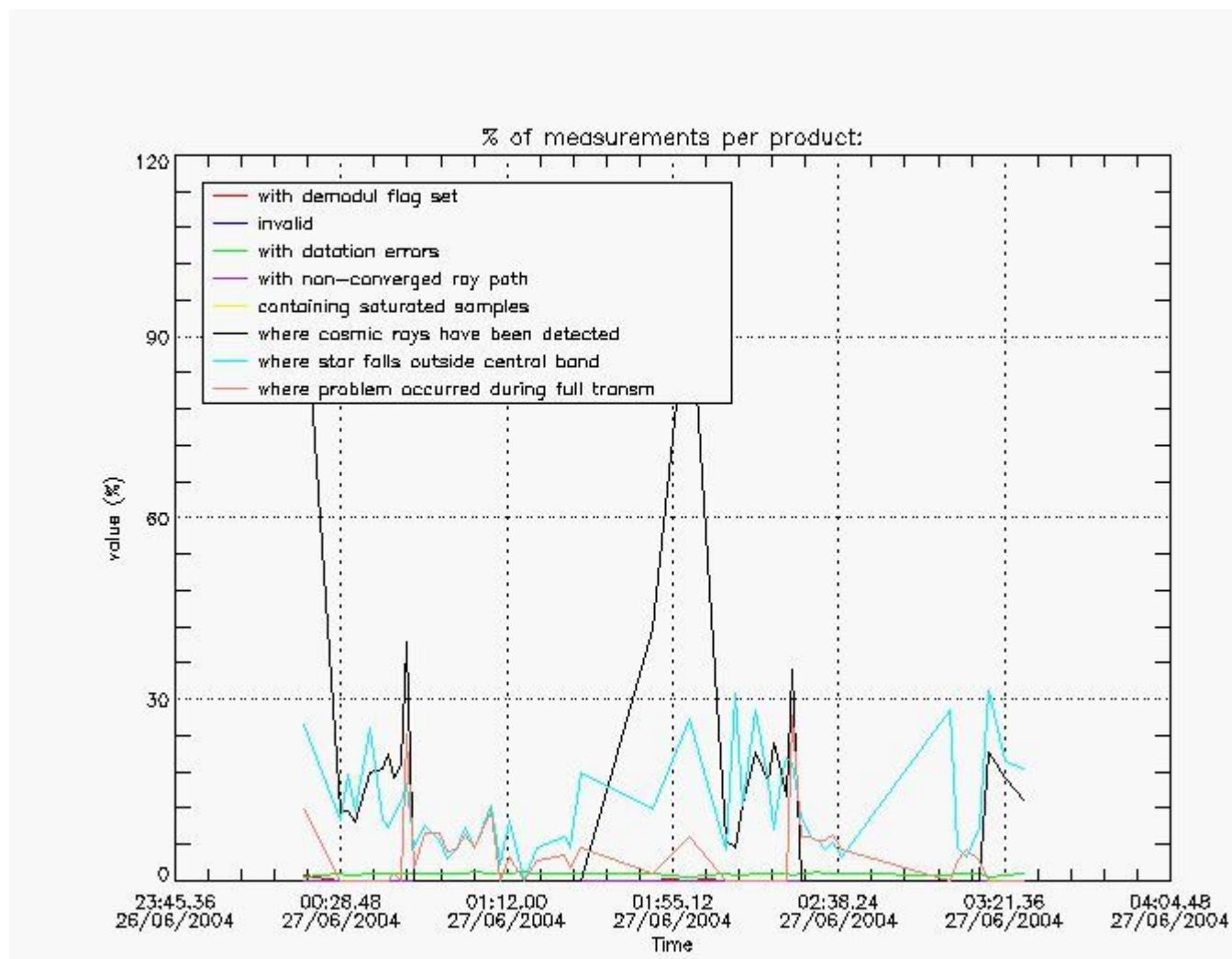
5. Demodulation flag and quality information monitoring

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:

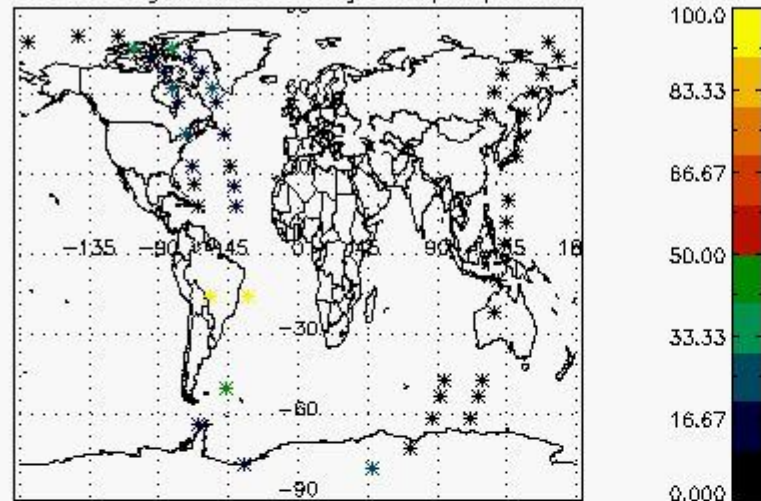
At least one measurement with demodulation flag set:	8.00000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

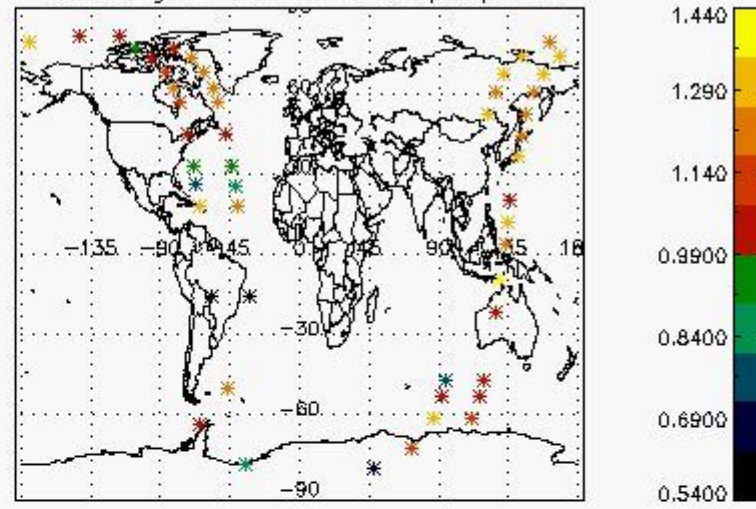


5.3 Plot quality information per product (world map)

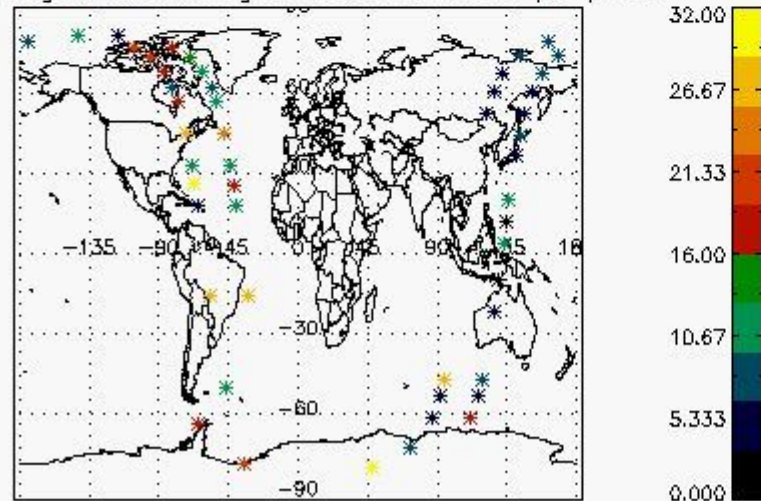
Percentage of cosmic ray hits per profile



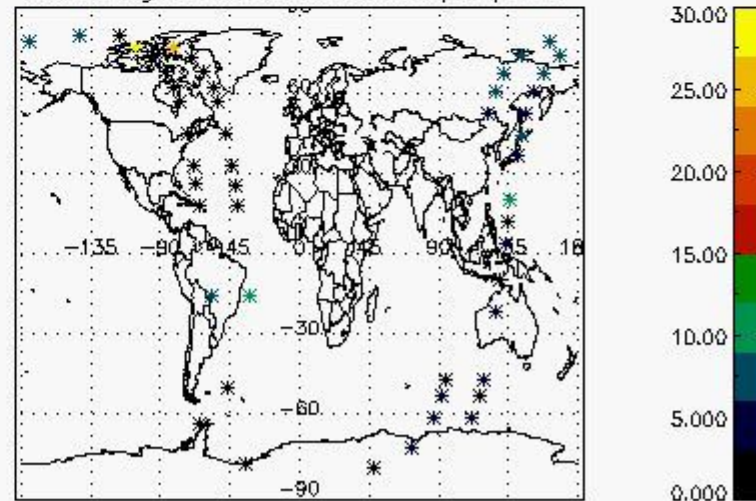
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



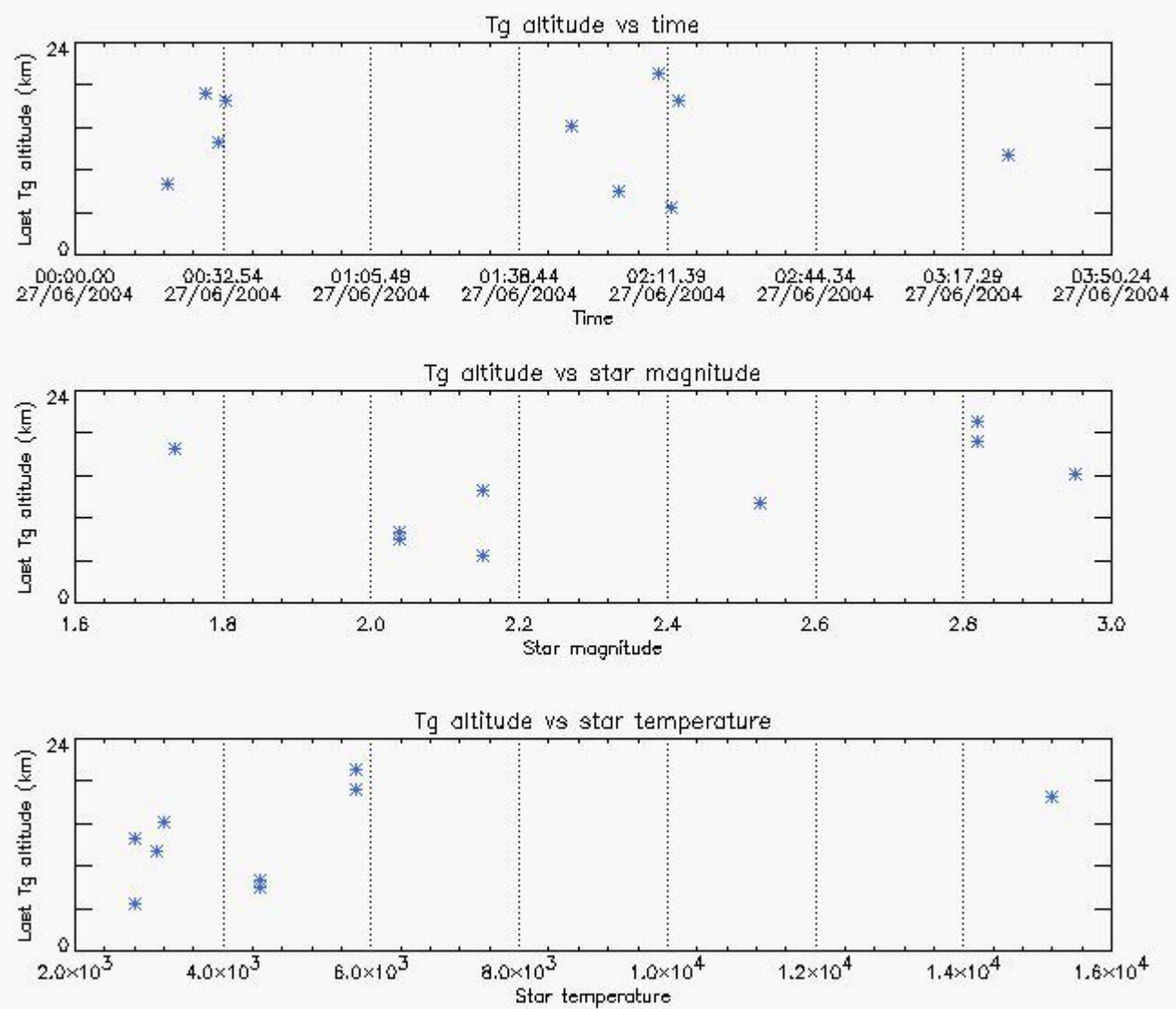
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.252	18.544	10.161
St. deviation:	5.2238	4.2103	5.2680
Maximum:	20.472	27.930	18.812
Minimum:	5.3144	7.7041	5.7174
Number of data:	10.000	35.000	5.0000

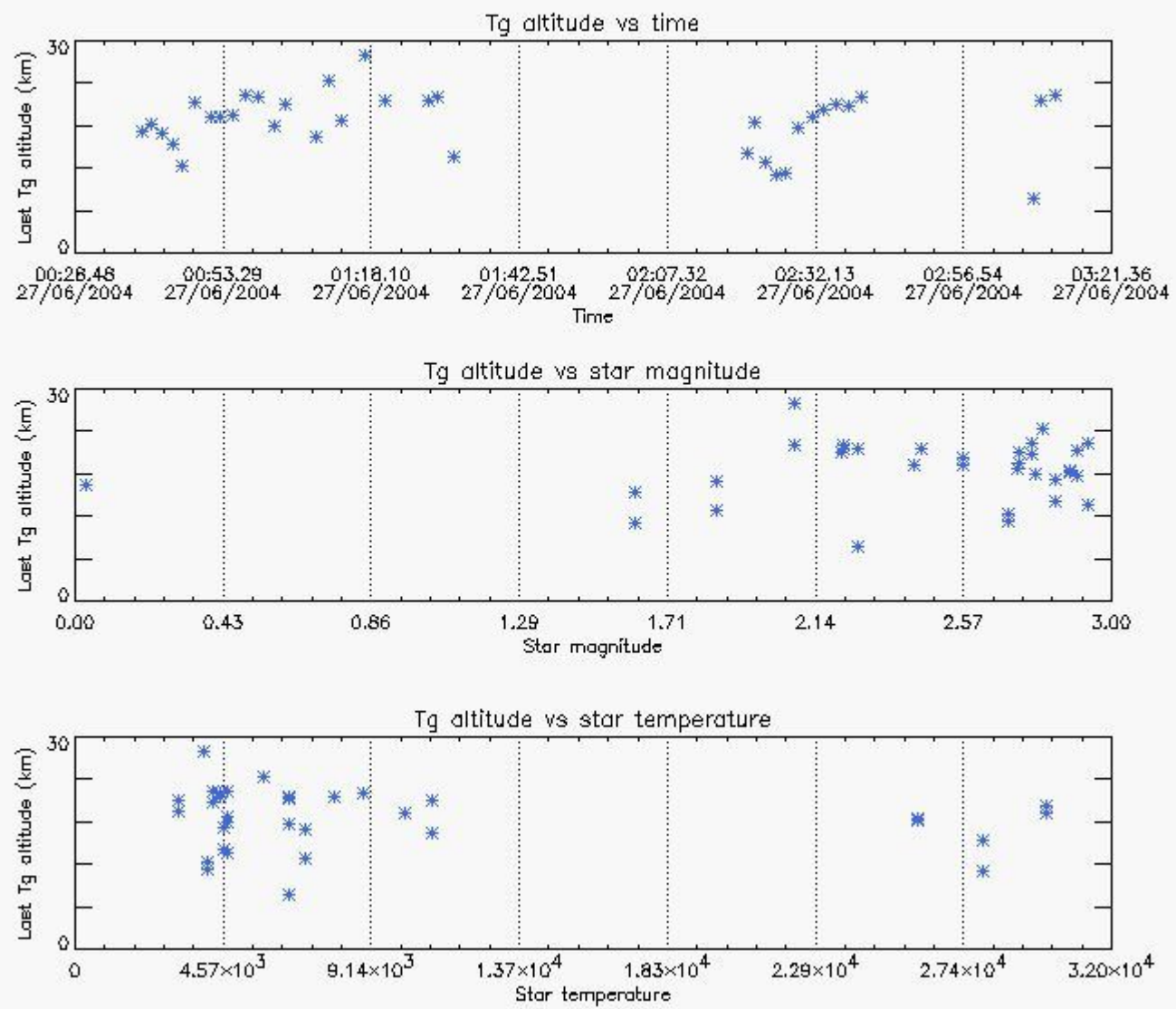
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



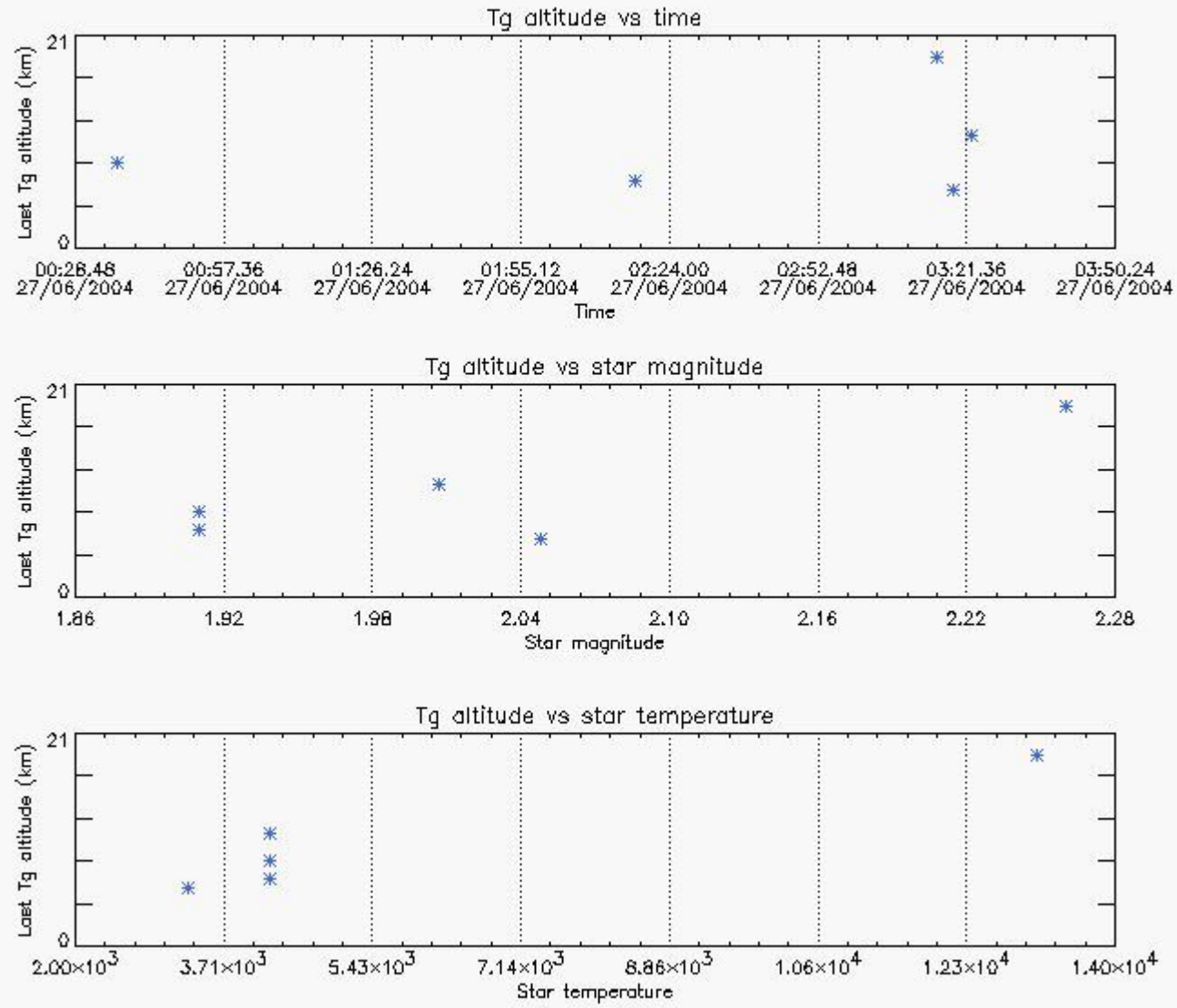
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

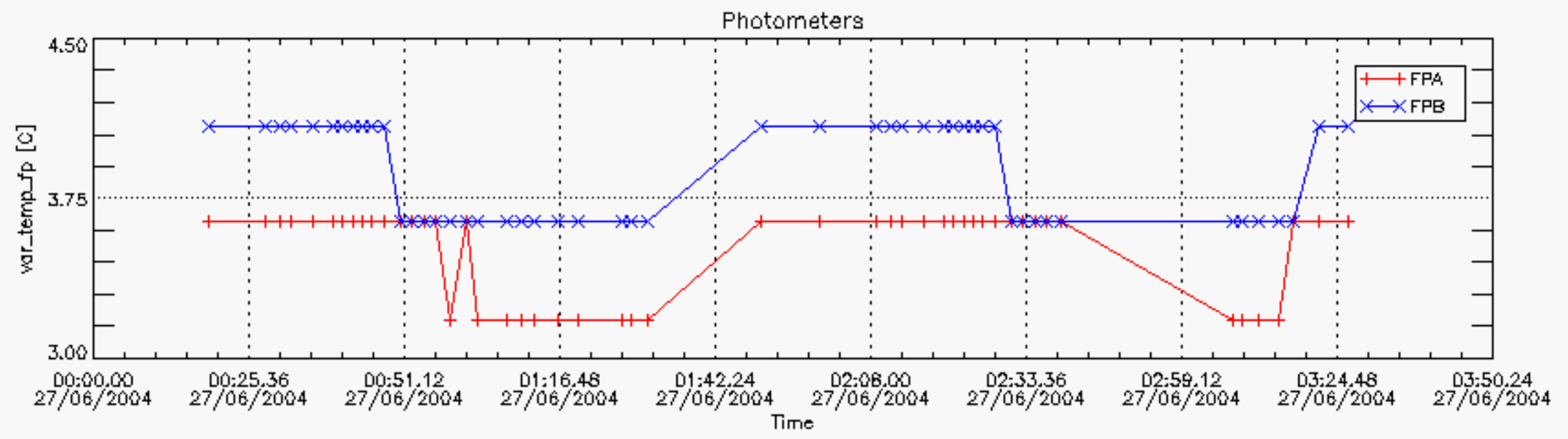
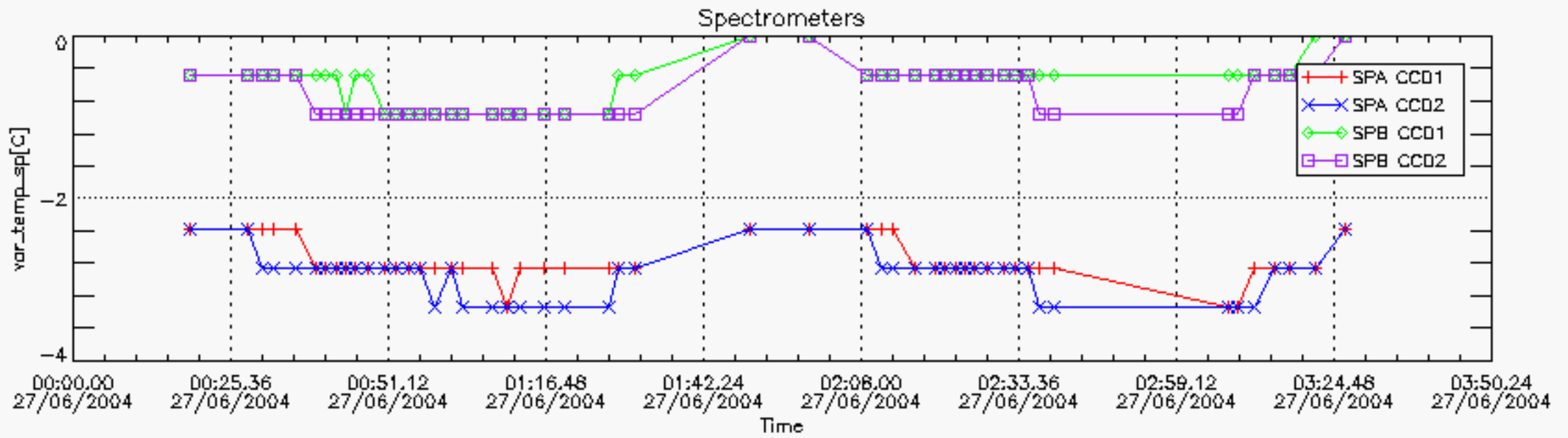
Tangent altitude at which the star is lost

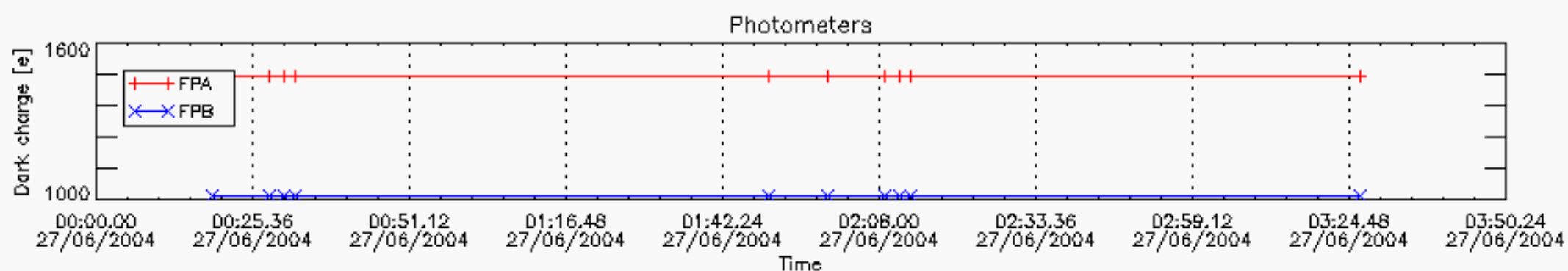
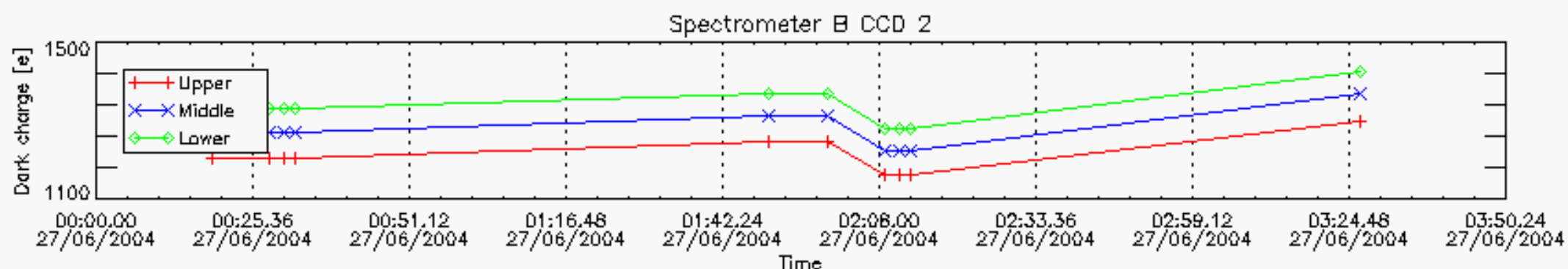
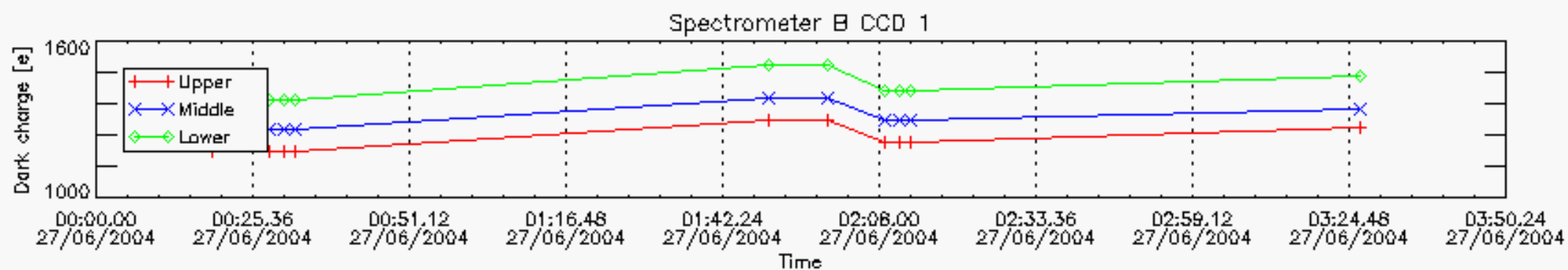
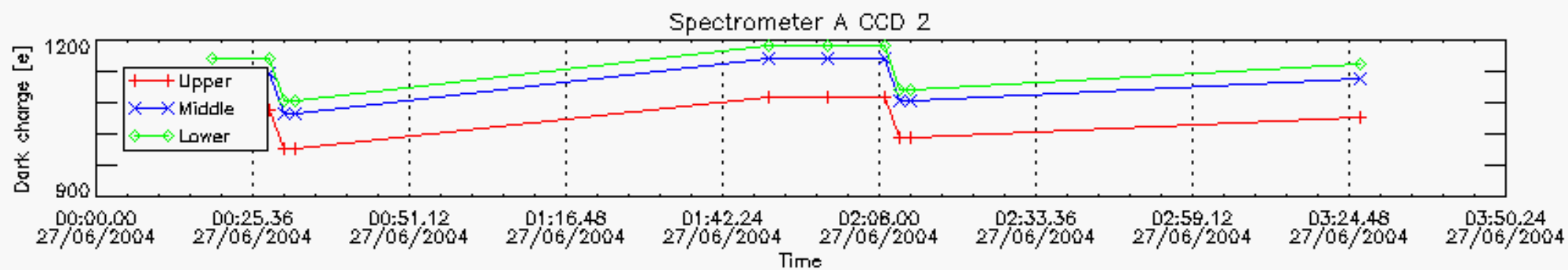
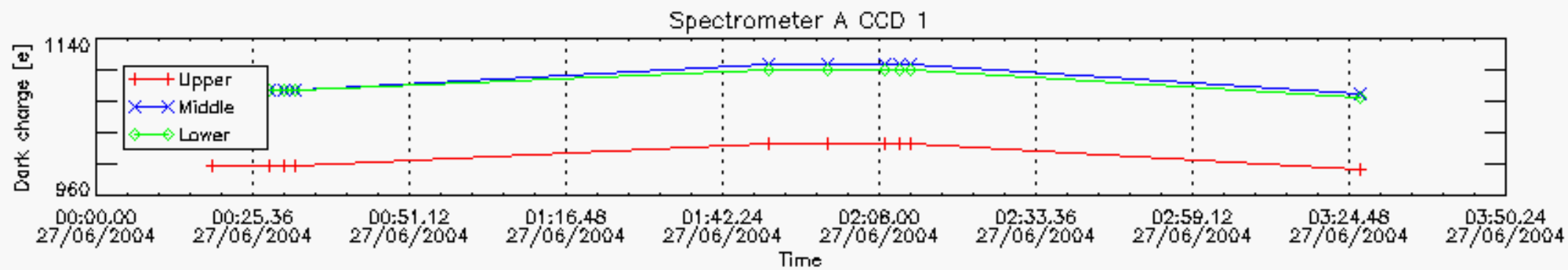


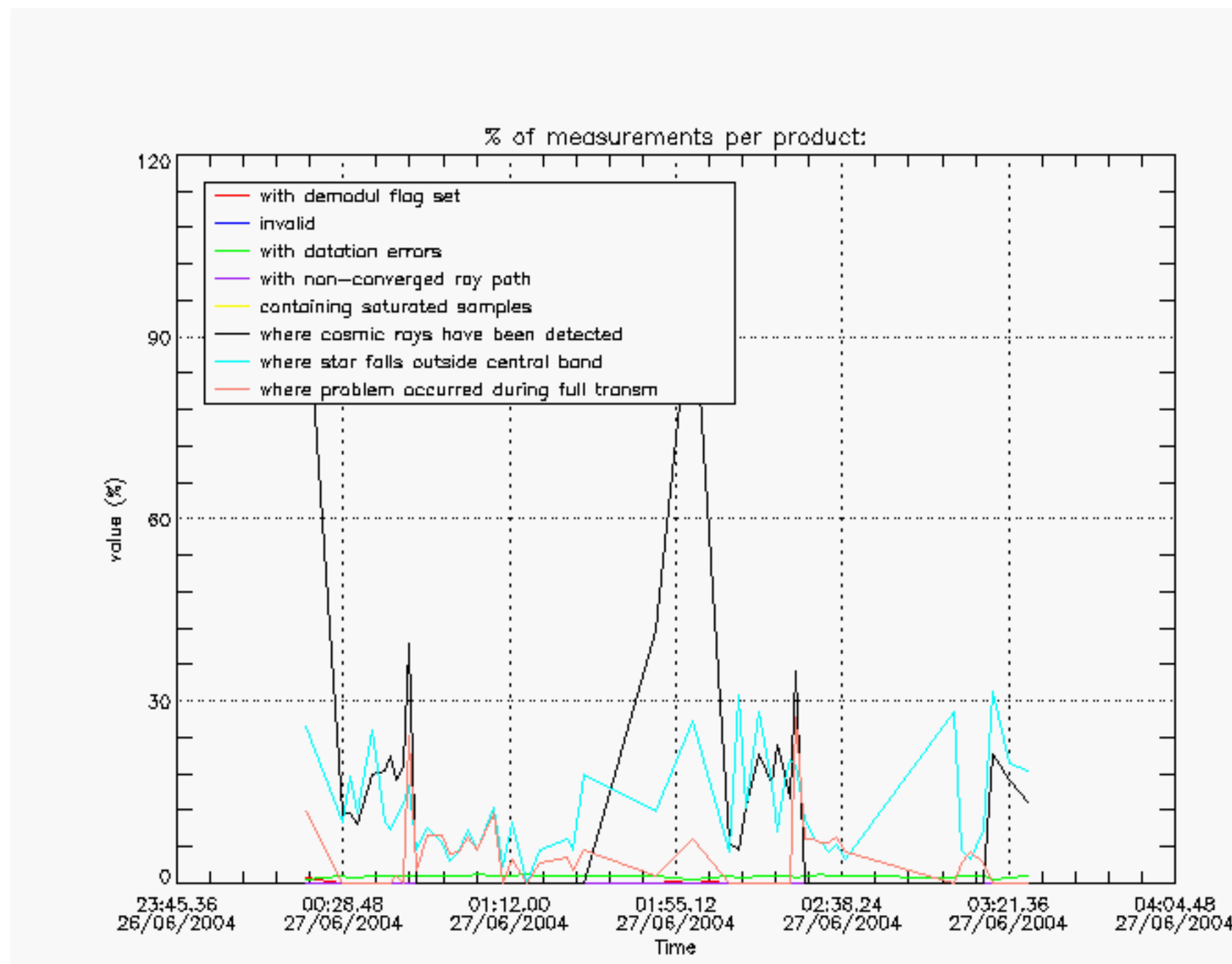
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

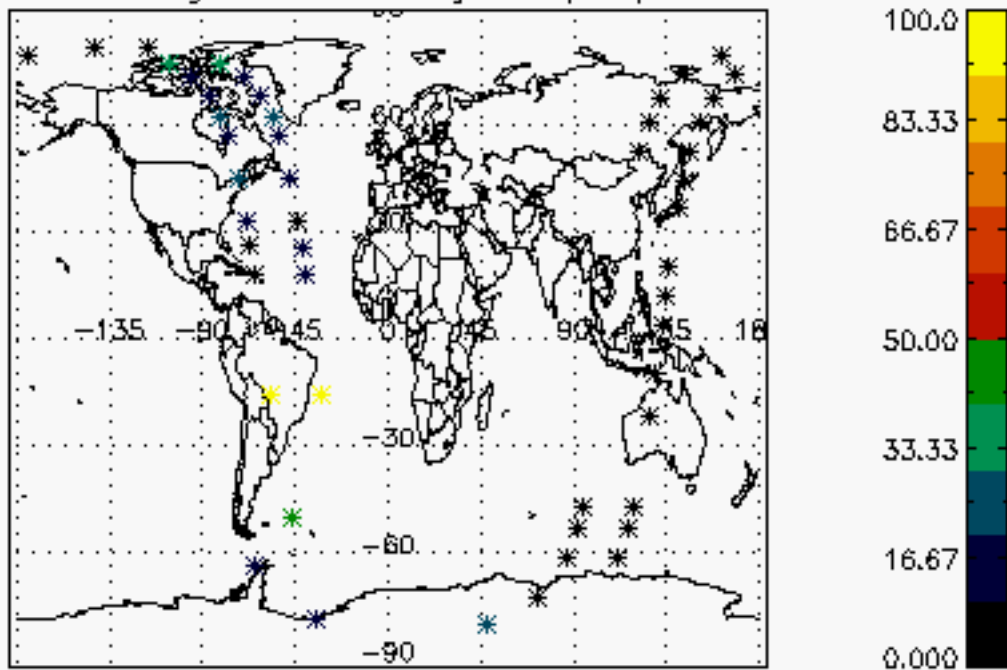
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1447.8	1461.4	1446.9
St. deviation:	3.8389	4.8761	6.6641	7.7700
Maximum:	1482.0	1469.0	1503.0	1488.0
Minimum:	1447.0	1437.0	1432.0	1415.0
Number of data:	13600.	13600.	40400.	40400.



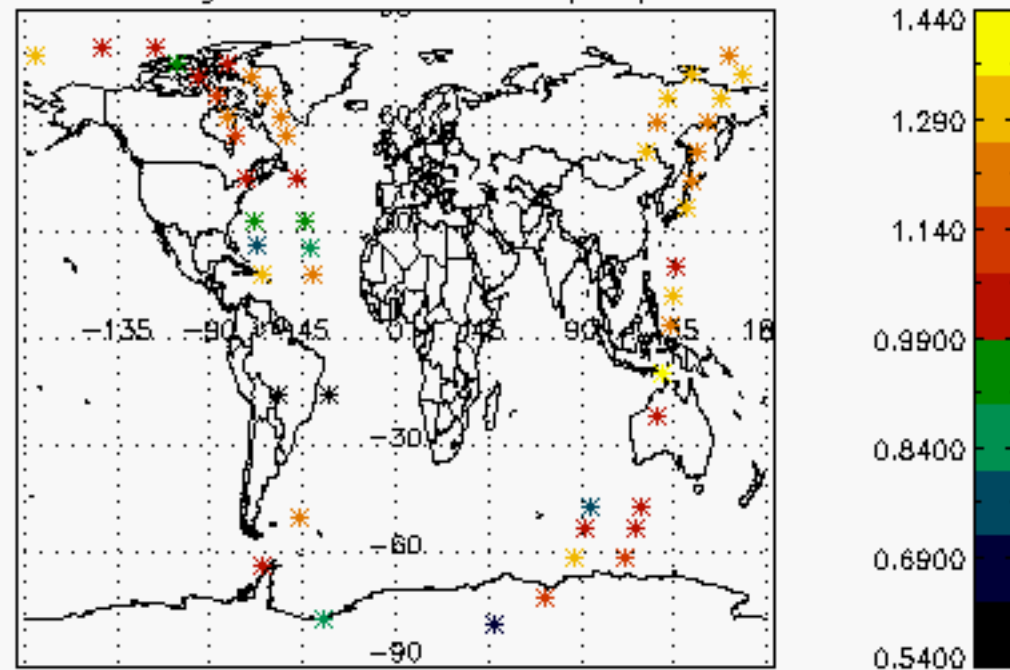




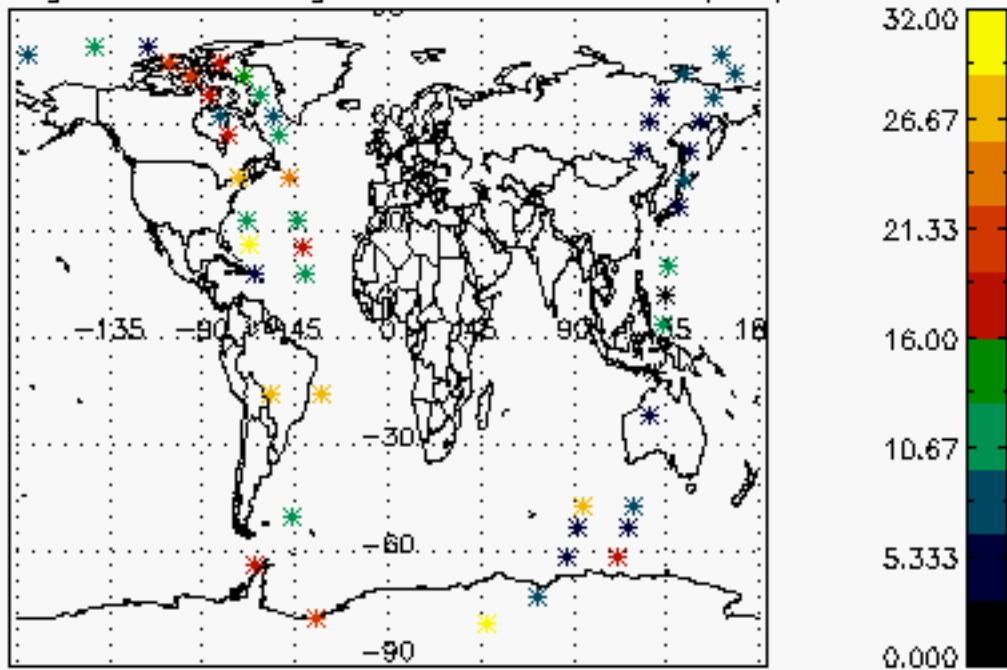
Percentage of cosmic ray hits per profile



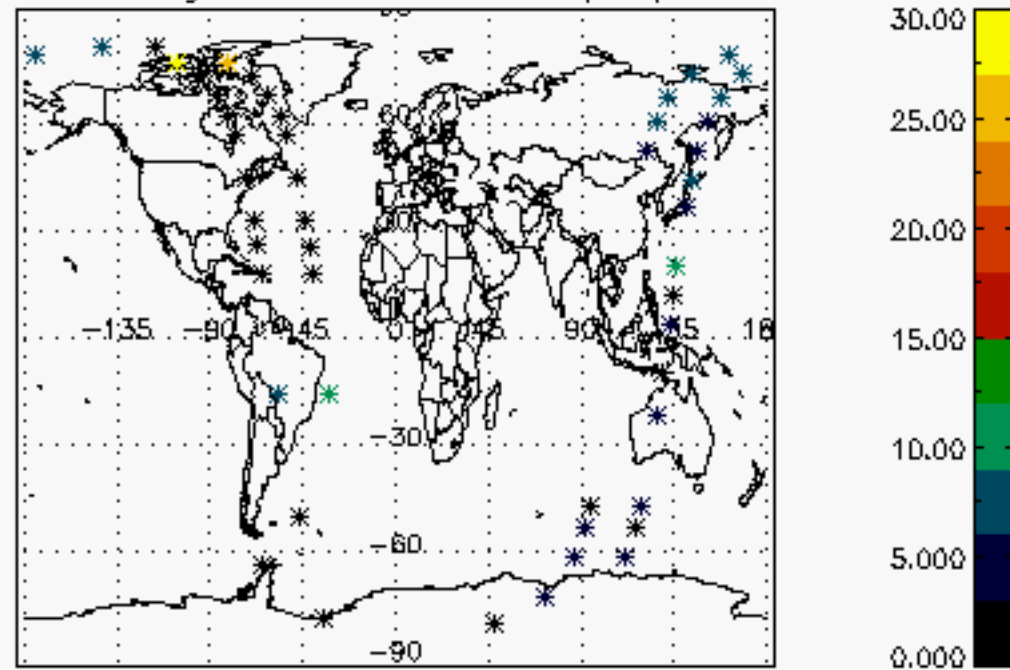
Percentage of datation errors per profile



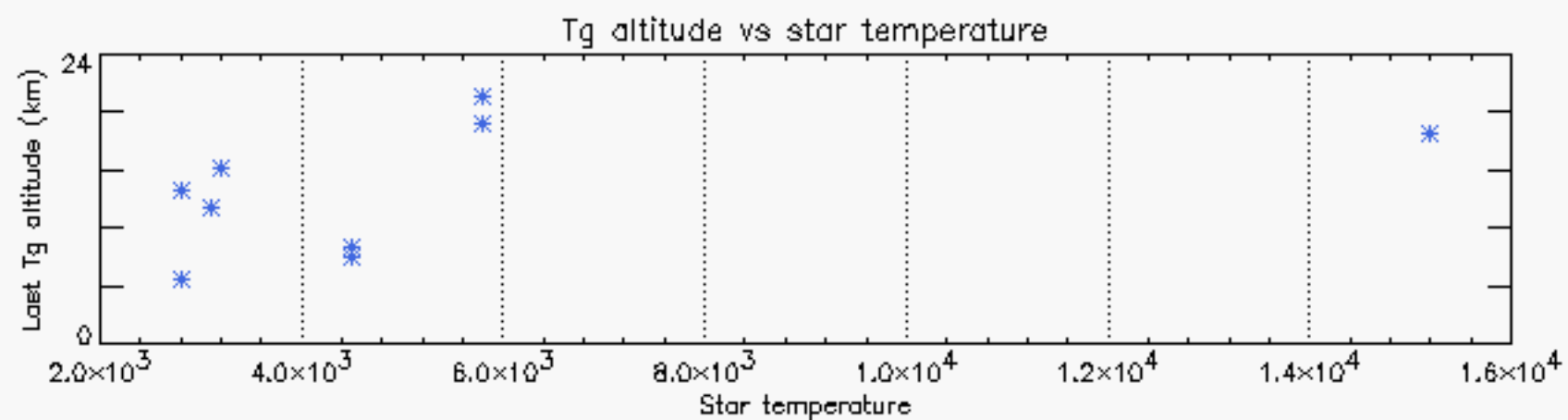
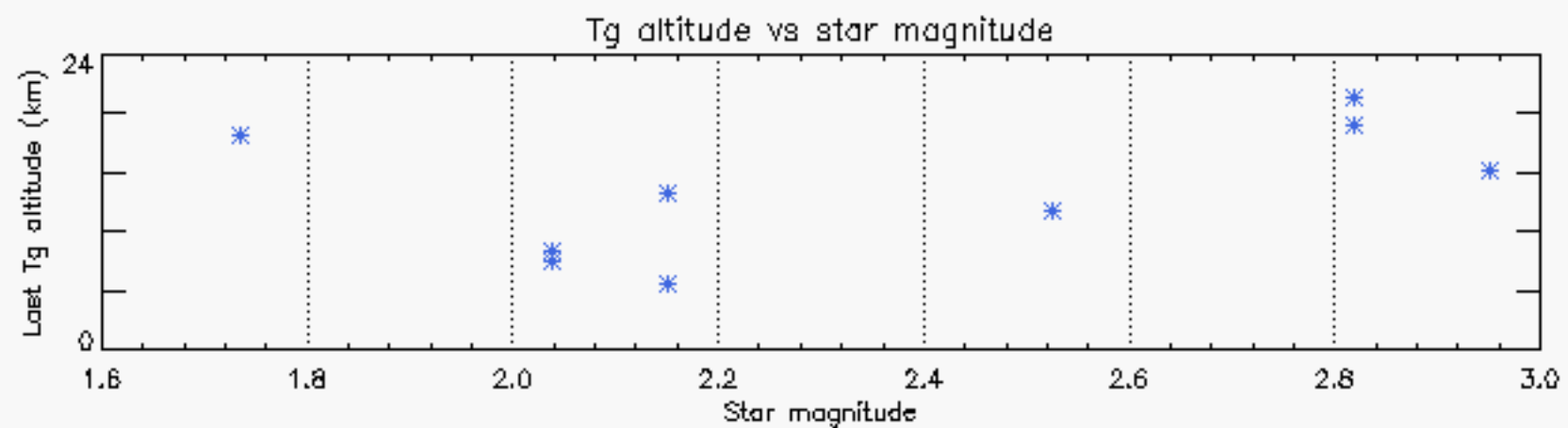
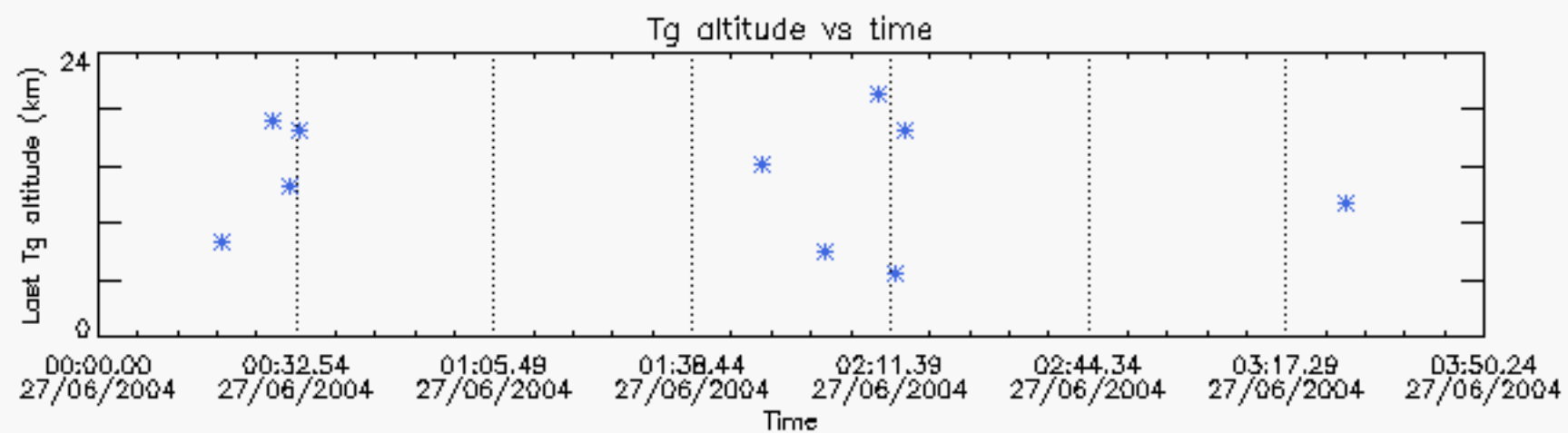
Percentage of star falling outside central band per profile



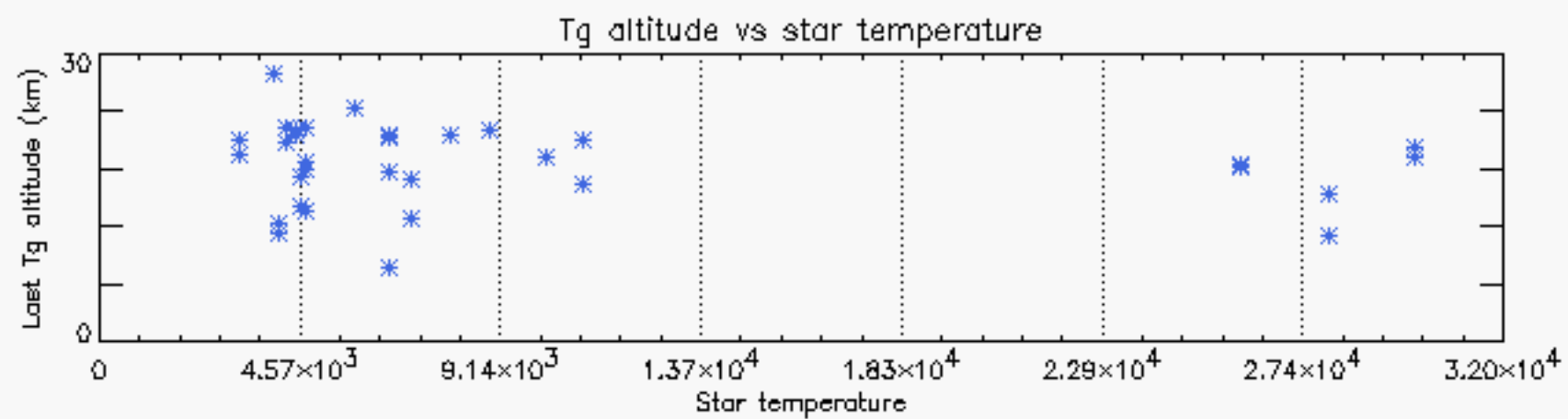
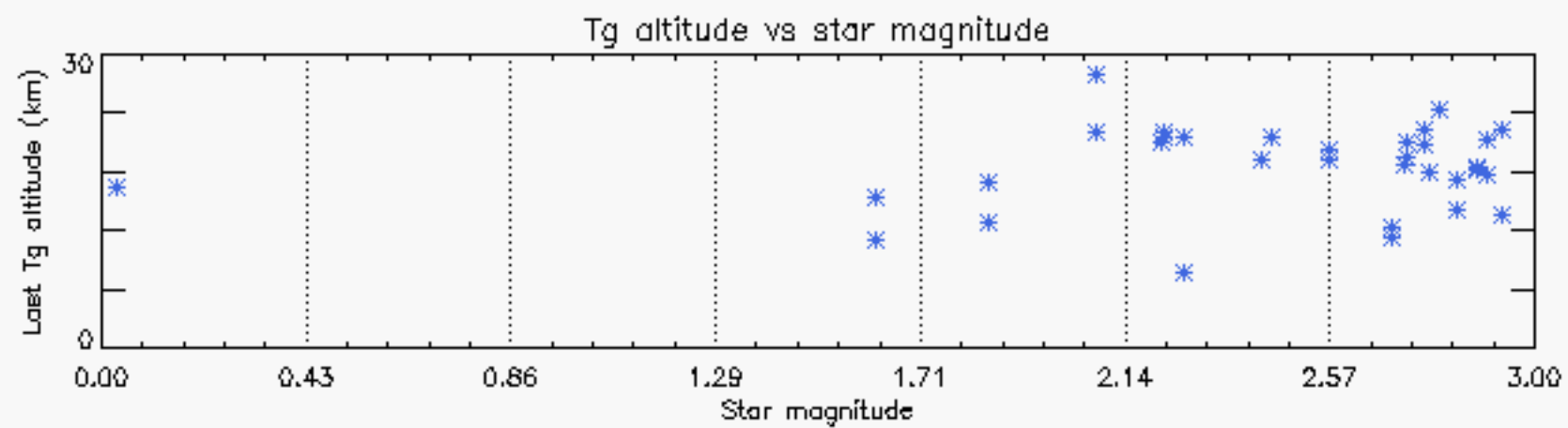
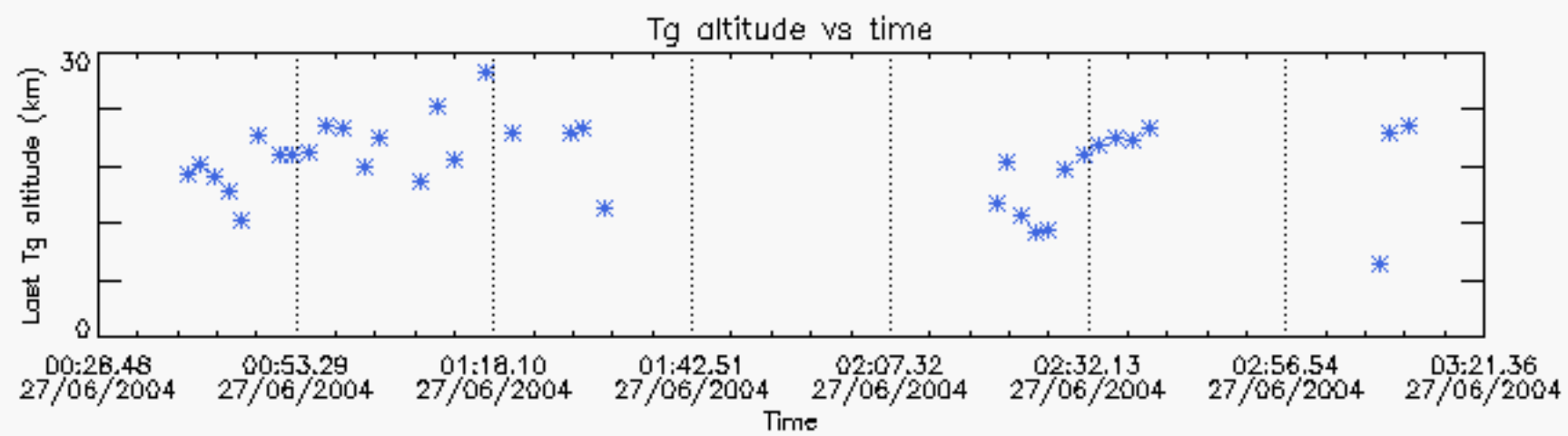
Percentage of saturation errors per profile



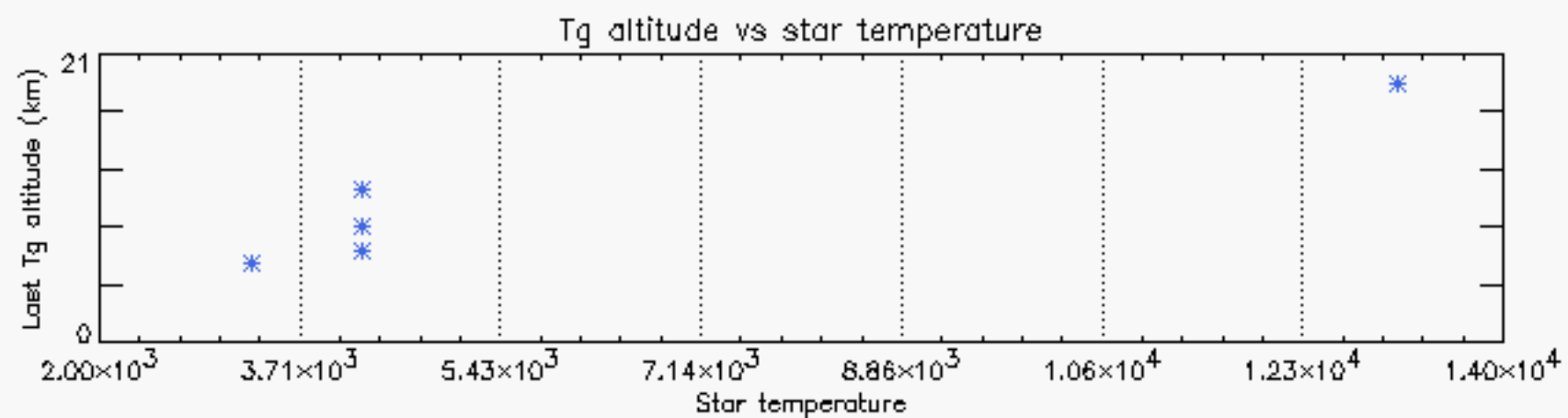
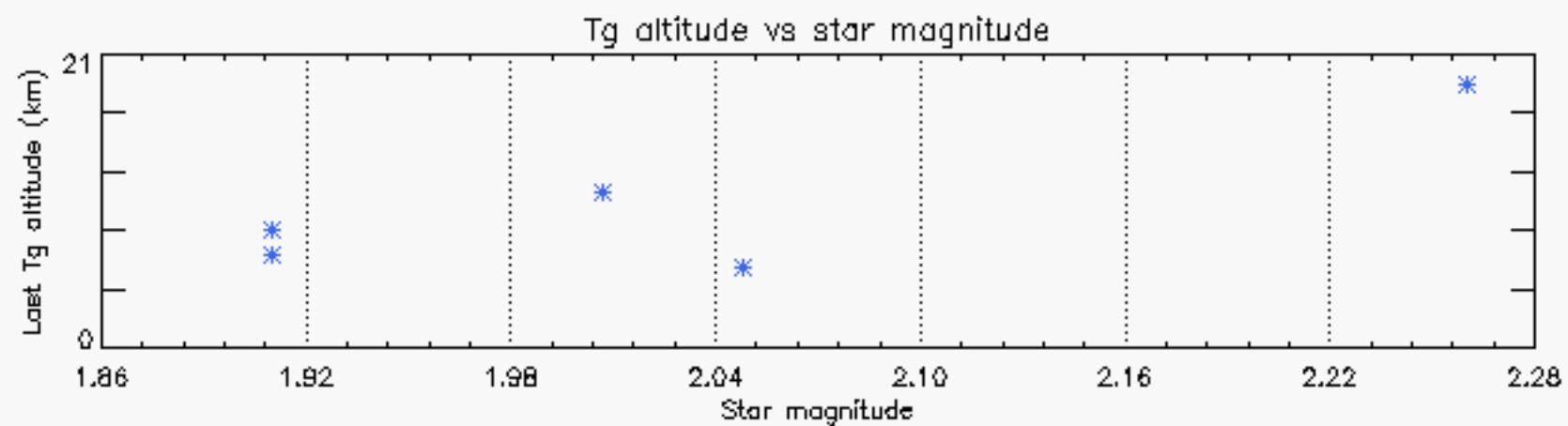
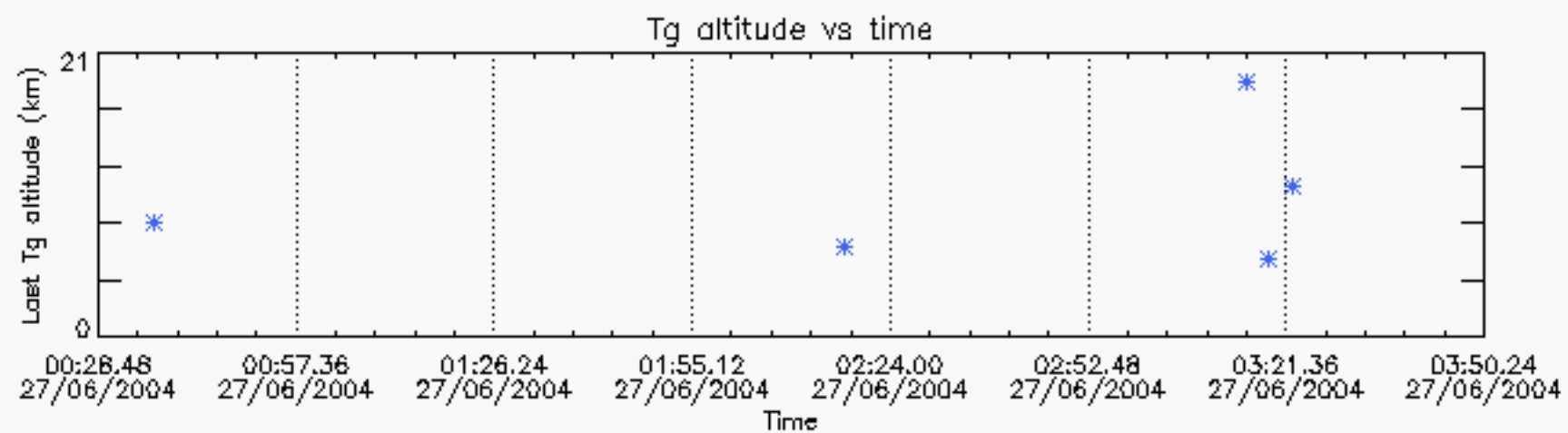
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 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
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 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
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 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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 17;-471.0; 01-JUN-2004 08:55:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11784
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2;	-4203.3;	01-JUN-2004	09:34:12;	Bright;	40.0;	120;	1Del Oph	;	2.73;	3200;occ;	80;	0;11785	
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7;	-3267.9;	01-JUN-2004	09:49:47;	Bright;	38.5;	39;	85Eta UMa	;	1.85;	24000;occ;	77;	0;11785	
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9;	-3035.6;	01-JUN-2004	09:53:40;	Bright;	39.5;	119;	14Eta Dra	;	2.73;	4700;occ;	79;	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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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
26;	493.7;	01-JUN-2004	10:52:29;	Dark	;	45.5;	45;	Alp Pav	;	1.94;	26000;occ;	91;	0;11786
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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2;	-4335.0;	01-JUN-2004	11:12:36;	Bright;	44.0;	98;	13Zet Oph	;	2.57;	30000;occ;	88;	0;11786	
3;	-4203.7;	01-JUN-2004	11:14:47;	Bright;	41.5;	120;	1Del Oph	;	2.73;	3200;occ;	83;	0;11786	
4;	-4023.0;	01-JUN-2004	11:17:48;	Bright;	38.0;	102;	24Alp Ser	;	2.60;	4250;occ;	76;	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	
8;	-3268.7;	01-JUN-2004	11:30:23;	Bright;	38.5;	39;	85Eta UMa	;	1.85;	24000;occ;	77;	0;11786	
9;	-3162.0;	01-JUN-2004	11:32:09;	Bright;	40.5;	55;	79Zet UMa	;	2.06;	10200;occ;	81;	0;11786	
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11;	-2874.7;	01-JUN-2004	11:36:57;	Bright;	41.5;	60;	7Bet UMi	;	2.08;	3950;occ;	83;	0;11786	
12;	-2592.3;	01-JUN-2004	11:41:39;	Bright;	39.0;	49;	1Alp UMi	;	1.99;	6300;occ;	78;	0;11786	
13;	-2415.0;	01-JUN-2004	11:44:36;	Bright;	47.5;	89;	5Alp Cep	;	2.45;	8000;occ;	95;	0;11786	
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15;	-2109.8;	01-JUN-2004	11:49:41;	Bright;	38.5;	76;	27Gam Cas	;	2.30;	30000;occ;	77;	0;11786	
16;	-1642.0;	01-JUN-2004	11:57:29;	Bright;	47.5;	53;	43Bet And	;	2.05;	3300;occ;	95;	0;11786	
17;	-1479.1;	01-JUN-2004	12:00:12;	Dark	;	57.0;	58;	21Alp And	;	2.07;	11000;occ;	114;	0;11786
18;	-1384.1;	01-JUN-2004	12:01:47;	Dark	;	85.0;	93;	53Bet Peg	;	2.52;	3100;occ;	170;	0;11786
19;	-1179.0;	01-JUN-2004	12:05:12;	Dark	;	54.0;	140;	88Gam Peg	;	2.83;	26000;occ;	108;	0;11786
20;	-970.9;	01-JUN-2004	12:08:40;	Dark	;	89.5;	90;	54Alp Peg	;	2.49;	11000;occ;	179;	0;11786
21;	-639.4;	01-JUN-2004	12:14:12;	Dark	;	52.5;	52;	16Bet Cet	;	2.04;	4500;occ;	105;	0;11786
22;	-470.6;	01-JUN-2004	12:17:01;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;11786	
23;	-237.6;	01-JUN-2004	12:20:54;	Dark	;	45.5;	84;	Alp Phe	;	2.40;	4500;occ;	91;	0;11786
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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
28;	707.7;	01-JUN-2004	12:36:39;	Dark	;	42.5;	43;	Alp TrA	;	1.91;	4250;occ;	85;	0;11787
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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34; 1373.0; 01-JUN-2004 12:47:44; Dark ; 46.0; 136; 23Tau Sco ; 2.82; 30000;occ; 92; 0;11787
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25; 3189.1; 30-JUN-2004 01:22:17; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;12195
26; 3349.1; 30-JUN-2004 01:24:57; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;12195
27; 3788.4; 30-JUN-2004 01:32:17; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;12195
28; 3889.9; 30-JUN-2004 01:33:58; Bright; 49.0; 68; 18Alp Cas ; 2.22; 4500;occ; 98; 0;12195
29; 4062.1; 30-JUN-2004 01:36:50; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;12195
30; 4164.1; 30-JUN-2004 01:38:32; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;12195
31; 4266.4; 30-JUN-2004 01:40:15; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;12195
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6; 476.5; 30-JUN-2004 02:17:41; Dark ; 66.0; 63; Bet Gru ; 2.15; 2800;occ; 132; 0;12196
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9; 972.0; 30-JUN-2004 02:25:56; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;12196
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