

GOMOS Daily Report 26-MAY-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	28MAY2004 04:10:10
Data source version	GOMOS/4.02
Start time of products	26-MAY-2004 (26MAY2004 00:00:00)
Stop time of products	27-MAY-2004 (27MAY2004 00:00:00)

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

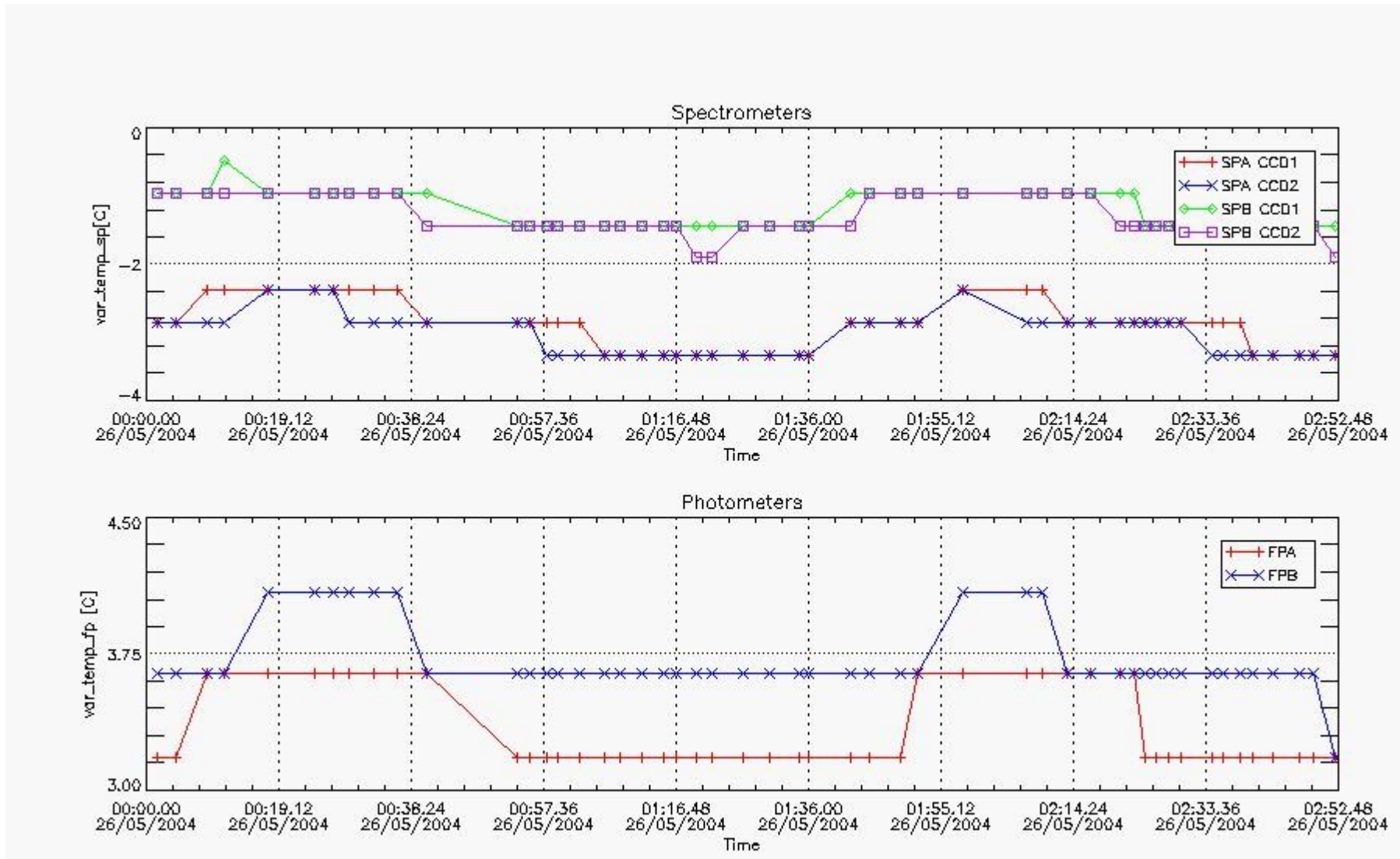
2. Summary of products arrived in PCF

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_1PNPDE20040526_000136_000000452027_00116_11693_0018.N1	26-MAY-2004 00:01:36	Twilight	45.000	53	43Bet And	2.0480	3300.0	90	11693	No
GOM_TRA_1PNPDE20040526_000412_000000512027_00116_11693_0019.N1	26-MAY-2004 00:04:12	Twilight	51.000	58	21Alp And	2.0730	11000.	102	11693	No
GOM_TRA_1PNPDE20040526_000847_000000512027_00116_11693_0020.N1	26-MAY-2004 00:08:47	Twilight	50.500	140	88Gam Peg	2.8340	26000.	101	11693	No
GOM_TRA_1PNPDE20040526_001115_000000742027_00116_11693_0021.N1	26-MAY-2004 00:11:15	Dark	74.000	90	54Alp Peg	2.4870	11000.	148	11693	No
GOM_TRA_1PNPDE20040526_001739_000000462027_00116_11693_0022.N1	26-MAY-2004 00:17:39	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	11693	No
GOM_TRA_1PNPDE20040526_002424_000000462027_00116_11693_0023.N1	26-MAY-2004 00:24:24	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	11693	No
GOM_TRA_1PNPDE20040526_002703_000000502027_00116_11693_0024.N1	26-MAY-2004 00:27:03	Dark	50.000	9	Alp Eri	0.45300	24000.	100	11693	No
GOM_TRA_1PNPDE20040526_002918_000000582027_00117_11694_0025.N1	26-MAY-2004 00:29:18	Dark	58.000	63	Bet Gru	2.1500	2800.0	116	11694	No
GOM_TRA_1PNPDE20040526_003253_000000382027_00117_11694_0026.N1	26-MAY-2004 00:32:53	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	11694	No
GOM_TRA_1PNPDE20040526_003619_000000452027_00117_11694_0027.N1	26-MAY-2004 00:36:19	Dark	44.500	45	Alp Pav	1.9400	26000.	89	11694	No
GOM_TRA_1PNPDE20040526_004033_000000472027_00117_11694_0028.N1	26-MAY-2004 00:40:33	Twilight	47.000	43	Alp TrA	1.9100	4250.0	94	11694	No
GOM_TRA_1PNPDE20040526_005348_000000472027_00117_11694_0000.N1	26-MAY-2004 00:53:48	Bright	46.500	80	7Del Sco	2.3160	30000.	93	11694	No
GOM_TRA_1PNPDE20040526_005531_000000512027_00117_11694_0001.N1	26-MAY-2004 00:55:31	Bright	51.000	86	35Eta Oph	2.4300	10200.	102	11694	No
GOM_TRA_1PNPDE20040526_005806_000000392027_00117_11694_0002.N1	26-MAY-2004 00:58:06	Bright	39.000	104	27Bet Lib	2.6140	13100.	78	11694	No
GOM_TRA_1PNPDE20040526_005943_000000452027_00117_11694_0003.N1	26-MAY-2004 00:59:43	Bright	44.500	120	1Del Oph	2.7340	3200.0	89	11694	No
GOM_TRA_1PNPDE20040526_010247_000000402027_00117_11694_0004.N1	26-MAY-2004 01:02:47	Bright	40.000	102	24Alp Ser	2.6000	4250.0	80	11694	No
GOM_TRA_1PNPDE20040526_010629_000000382027_00117_11694_0005.N1	26-MAY-2004 01:06:29	Bright	37.500	3	16Alp Boo	-0.050000	4250.0	75	11694	No
GOM_TRA_1PNPDE20040526_010836_000000392027_00117_11694_0006.N1	26-MAY-2004 01:08:36	Bright	38.500	83		2.3780	11000.	77	11694	No
GOM_TRA_1PNPDE20040526_011146_000000382027_00117_11694_0007.N1	26-MAY-2004 01:11:46	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	11694	No
GOM_TRA_1PNPDE20040526_011501_000000382027_00117_11694_0008.N1	26-MAY-2004 01:15:01	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	11694	No
GOM_TRA_1PNPDE20040526_011645_000000402027_00117_11694_0009.N1	26-MAY-2004 01:16:45	Bright	39.500	55	79Zet UMa	2.0600	10200.	79	11694	No
GOM_TRA_1PNPDE20040526_011938_000000422027_00117_11694_0010.N1	26-MAY-2004 01:19:38	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	11694	No
GOM_TRA_1PNPDE20040526_012157_000000402027_00117_11694_0011.N1	26-MAY-2004 01:21:57	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	11694	No
GOM_TRA_1PNPDE20040526_012634_000000392027_00117_11694_0012.N1	26-MAY-2004 01:26:34	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	11694	No
GOM_TRA_1PNPDE20040526_013023_000000472027_00117_11694_0013.N1	26-MAY-2004 01:30:23	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	11694	No
GOM_TRA_1PNPDE20040526_013442_000000372027_00117_11694_0014.N1	26-MAY-2004 01:34:42	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	11694	No
GOM_TRA_1PNPDE20040526_013553_000000412027_00117_11694_0015.N1	26-MAY-2004 01:35:53	Bright	40.500	68	18Alp Cas	2.2250	4500.0	81	11694	No
GOM_TRA_1PNPDE20040526_014212_000000422027_00117_11694_0016.N1	26-MAY-2004 01:42:12	Twilight	41.500	53	43Bet And	2.0480	3300.0	83	11694	No
GOM_TRA_1PNPDE20040526_014448_000000532027_00117_11694_0017.N1	26-MAY-2004 01:44:48	Twilight	52.500	58	21Alp And	2.0730	11000.	105	11694	No
GOM_TRA_1PNPDE20040526_014923_000000502027_00117_11694_0018.N1	26-MAY-2004 01:49:23	Twilight	50.000	140	88Gam Peg	2.8340	26000.	100	11694	No
GOM_TRA_1PNPDE20040526_015152_000000722027_00117_11694_0019.N1	26-MAY-2004 01:51:52	Dark	71.500	90	54Alp Peg	2.4870	11000.	143	11694	No
GOM_TRA_1PNPDE20040526_015815_000000472027_00117_11694_0020.N1	26-MAY-2004 01:58:15	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	11694	No
GOM_TRA_1PNPDE20040526_020739_000000462027_00117_11694_0021.N1	26-MAY-2004 02:07:39	Dark	46.000	9	Alp Eri	0.45300	24000.	92	11694	No
GOM_TRA_1PNPDE20040526_020955_000000582027_00118_11695_0022.N1	26-MAY-2004 02:09:55	Dark	58.000	63	Bet Gru	2.1500	2800.0	116	11695	No
GOM_TRA_1PNPDE20040526_021329_000000382027_00118_11695_0023.N1	26-MAY-2004 02:13:29	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	11695	No
GOM_TRA_1PNPDE20040526_021655_000000442027_00118_11695_0024.N1	26-MAY-2004 02:16:55	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11695	No
GOM_TRA_1PNPDE20040526_022111_000000422027_00118_11695_0025.N1	26-MAY-2004 02:21:11	Twilight	41.500	43	Alp TrA	1.9100	4250.0	83	11695	No
GOM_TRA_1PNPDE20040526_022316_000000432027_00118_11695_0026.N1	26-MAY-2004 02:23:16	Twilight	43.000	134	Bet TrA	2.8100	6600.0	86	11695	No
GOM_TRA_1PNPDE20040526_022445_000000502027_00118_11695_0027.N1	26-MAY-2004 02:24:45	Bright	50.000	4	Alp1Cen	-0.010000	5800.0	100	11695	No
GOM_TRA_1PNPDE20040526_022621_000000492027_00118_11695_0028.N1	26-MAY-2004 02:26:21	Bright	49.000	40	The Sco	1.8590	7100.0	98	11695	No
GOM_TRA_1PNPDE20040526_022808_000000542027_00118_11695_0029.N1	26-MAY-2004 02:28:08	Bright	54.000	25	35Lam Sco	1.6200	28000.	108	11695	No
GOM_TRA_1PNPDE20040526_022956_000000402027_00118_11695_0030.N1	26-MAY-2004 02:29:56	Bright	40.000	81	Eta Cen	2.3560	28000.	80	11695	No
GOM_TRA_1PNPDE20040526_023424_000000472027_00118_11695_0000.N1	26-MAY-2004 02:34:24	Bright	47.000	80	7Del Sco	2.3160	30000.	94	11695	No
GOM_TRA_1PNPDE20040526_023607_000000502027_00118_11695_0001.N1	26-MAY-2004 02:36:07	Bright	50.000	86	35Eta Oph	2.4300	10200.	100	11695	No
GOM_TRA_1PNPDE20040526_023840_000000392027_00118_11695_0002.N1	26-MAY-2004 02:38:40	Bright	38.500	104	27Bet Lib	2.6140	13100.	77	11695	No
GOM_TRA_1PNPDE20040526_024020_000000442027_00118_11695_0003.N1	26-MAY-2004 02:40:20	Bright	44.000	120	1Del Oph	2.7340	3200.0	88	11695	No
GOM_TRA_1PNPDE20040526_024323_000000402027_00118_11695_0004.N1	26-MAY-2004 02:43:23	Bright	40.000	102	24Alp Ser	2.6000	4250.0	80	11695	No
GOM_TRA_1PNPDE20040526_024705_000000382027_00118_11695_0005.N1	26-MAY-2004 02:47:05	Bright	38.000	3	16Alp Boo	-0.050000	4250.0	76	11695	No
GOM_TRA_1PNPDE20040526_024912_000000382027_00118_11695_0006.N1	26-MAY-2004 02:49:12	Bright	38.000	83		2.3780	11000.	76	11695	No

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



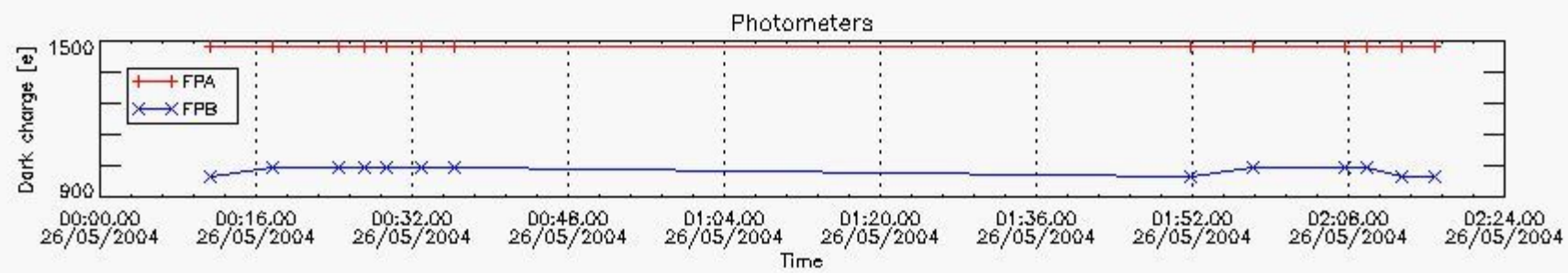
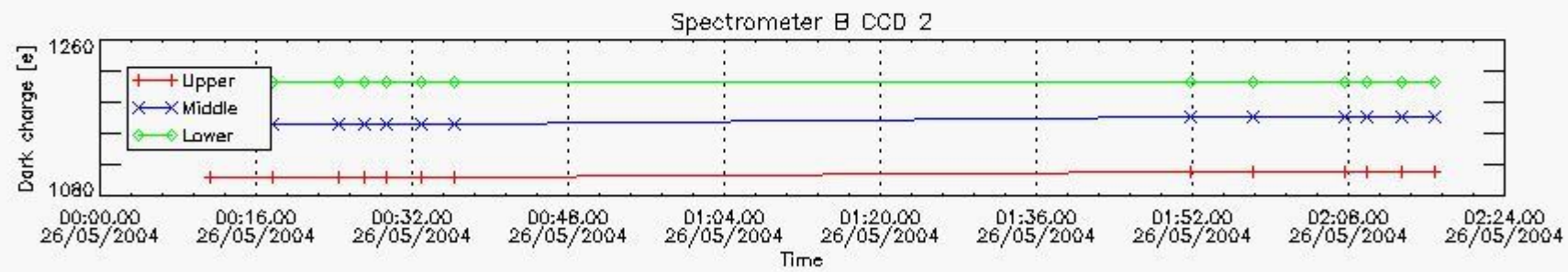
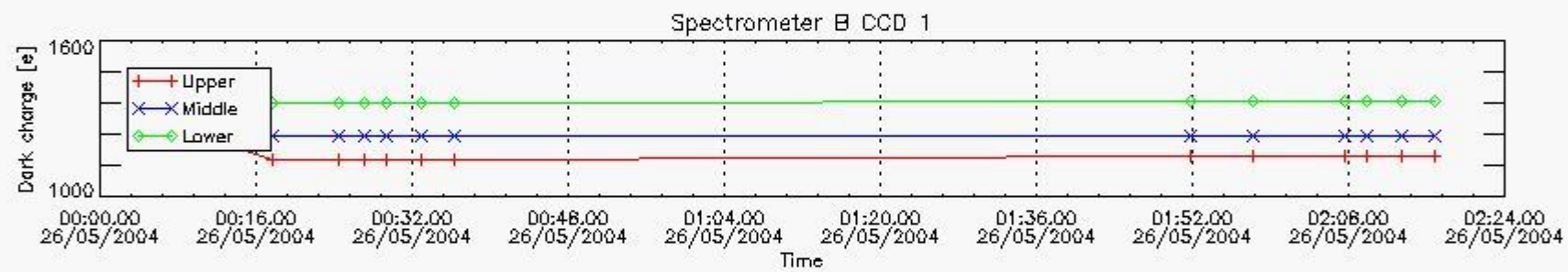
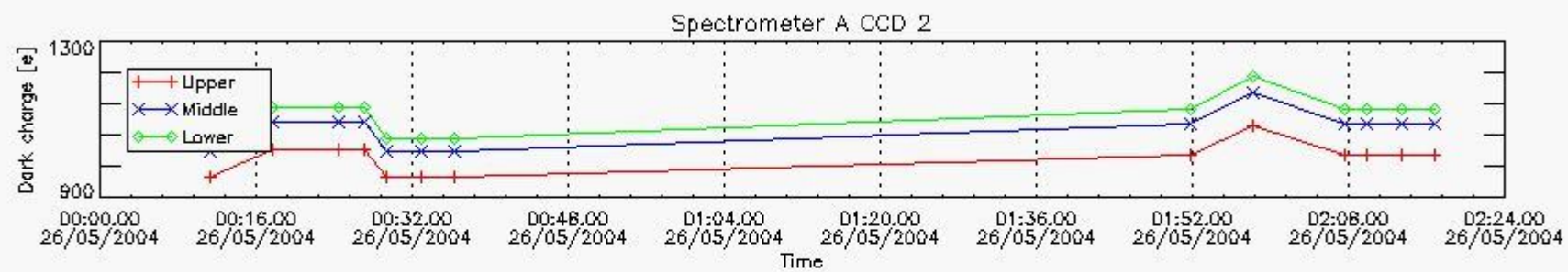
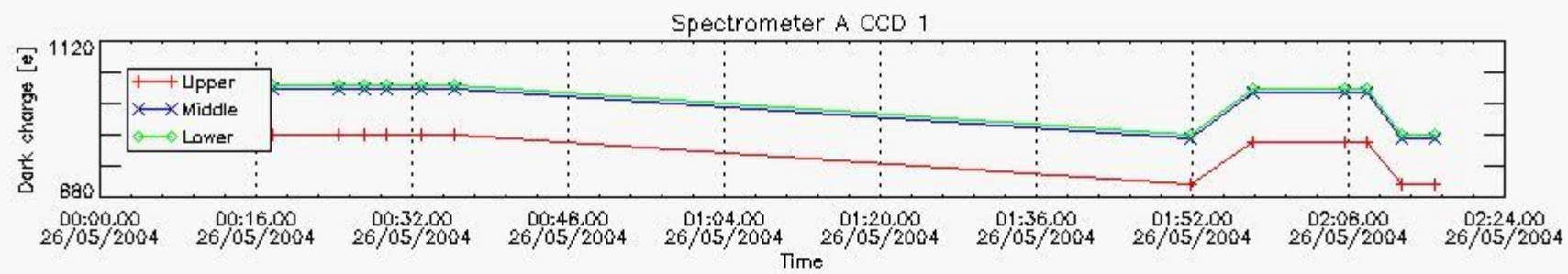
4. Overview of dark signal processing per product

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



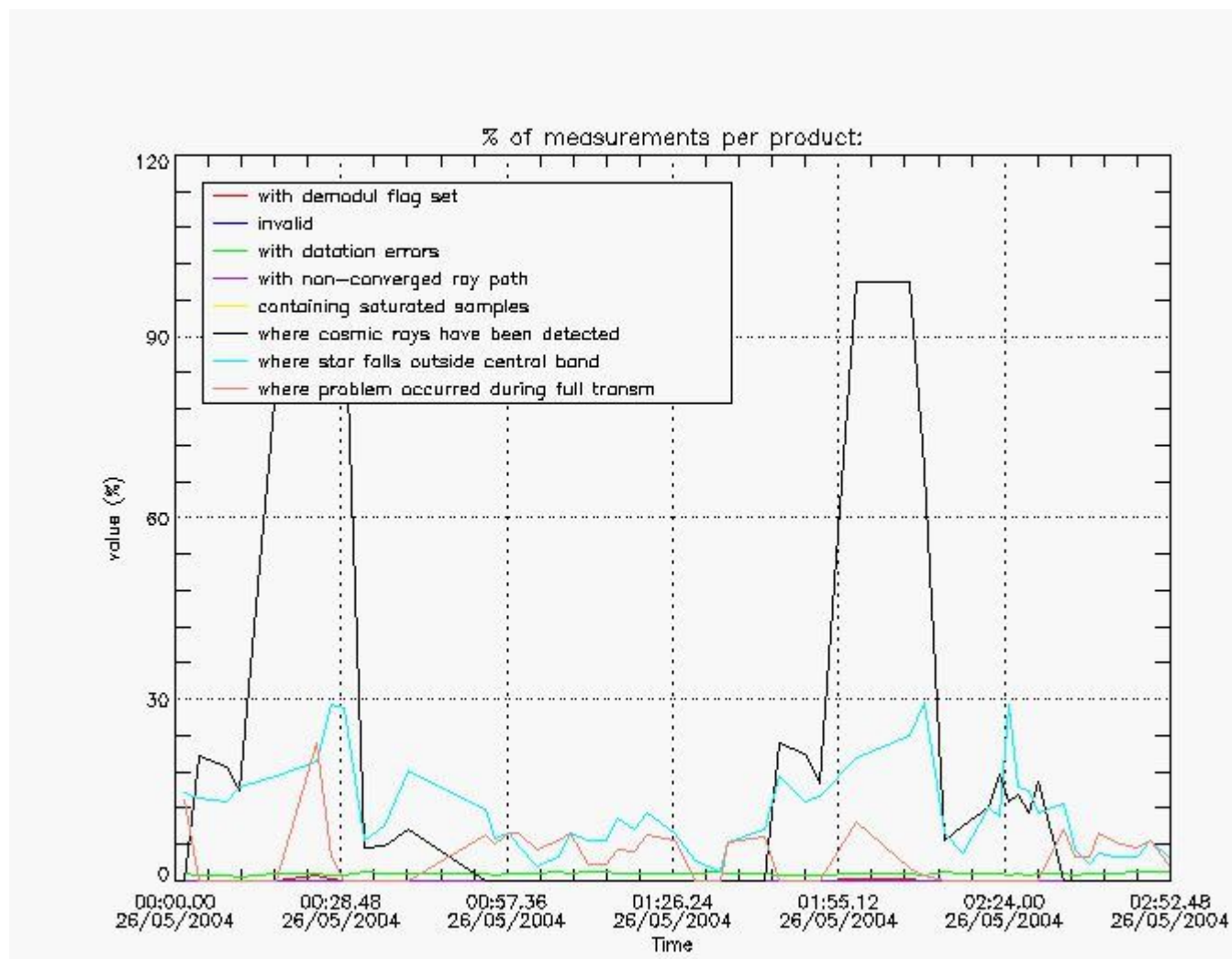
5. Demodulation flag and quality information monitoring

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:

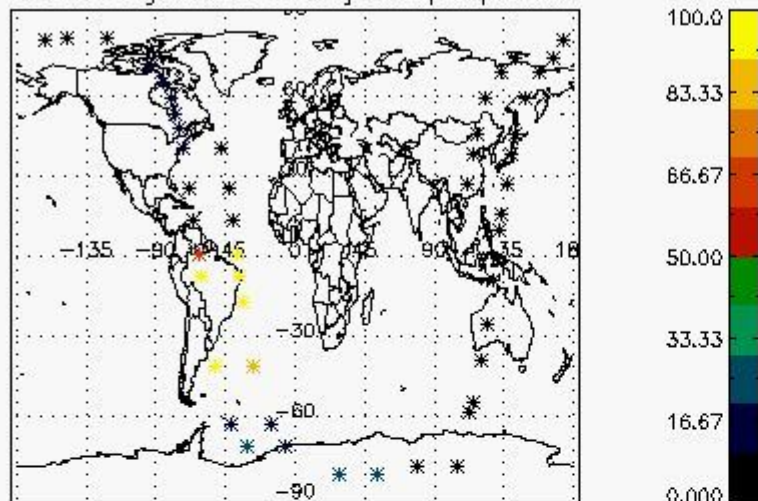
At least one measurement with demodulation flag set:	14.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

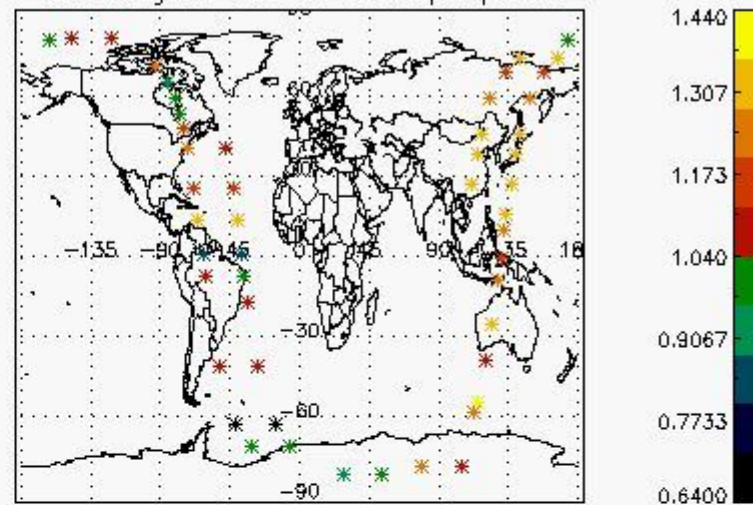


5.3 Plot quality information per product (world map)

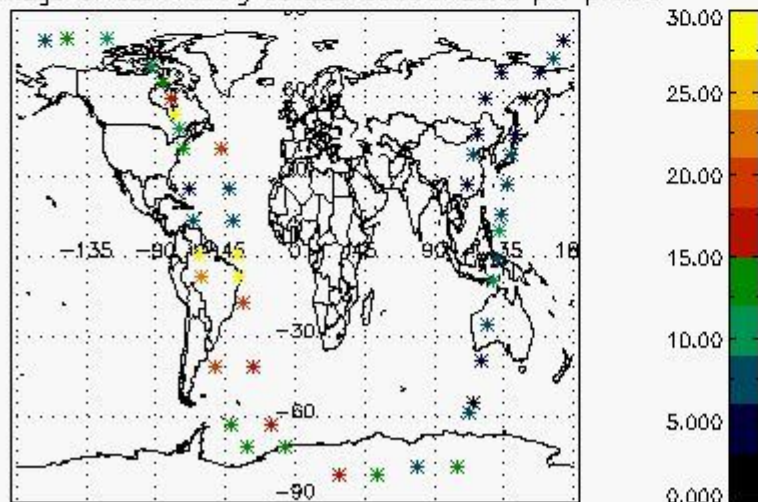
Percentage of cosmic ray hits per profile



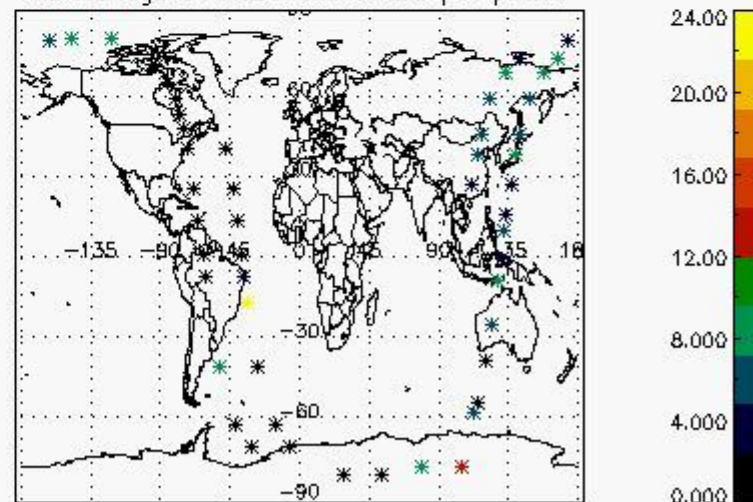
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



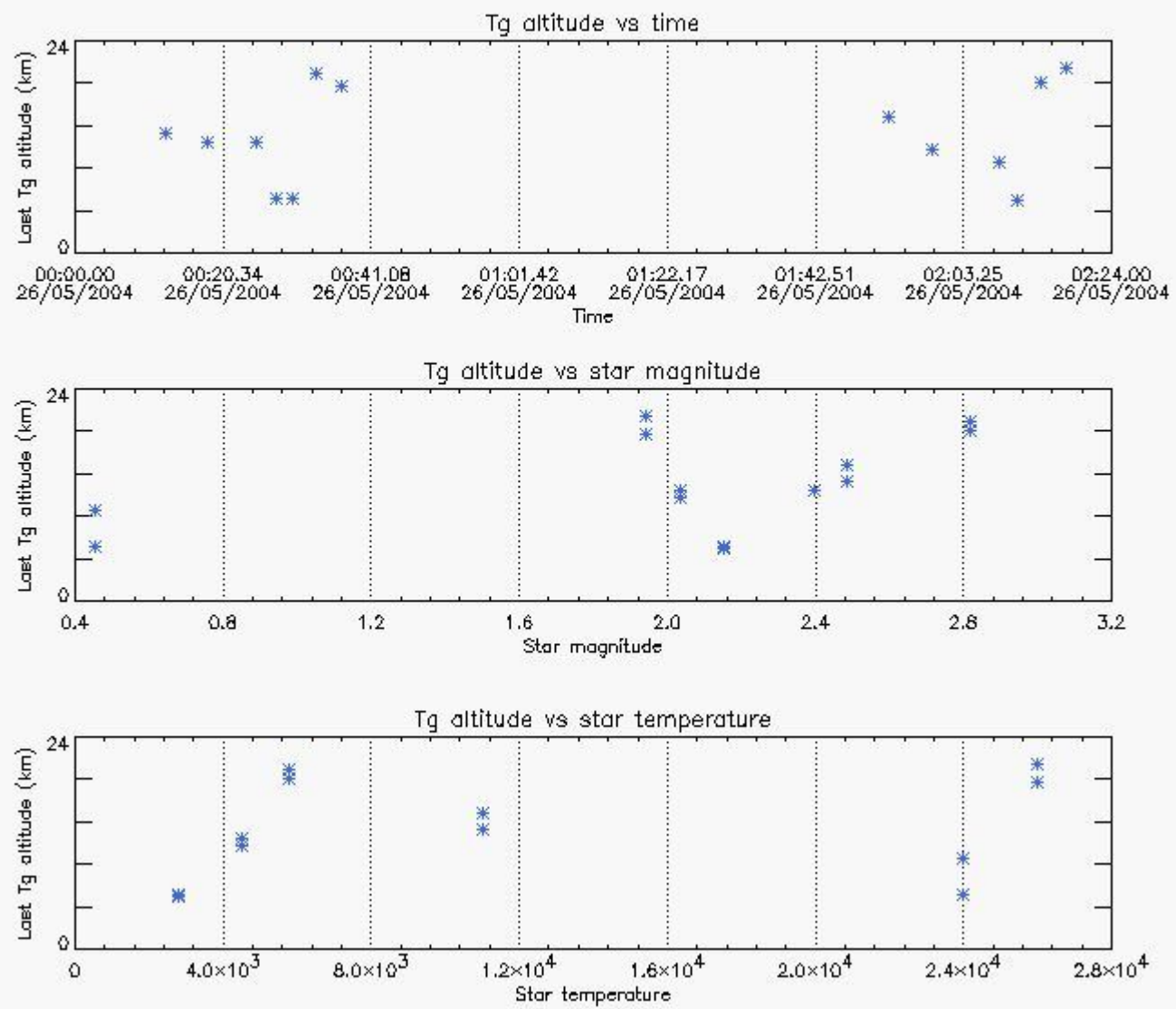
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.373	19.431	14.913
St. deviation:	5.3894	3.8974	2.3956
Maximum:	20.999	26.993	18.692
Minimum:	5.9400	6.1028	12.201
Number of data:	13.000	28.000	9.0000

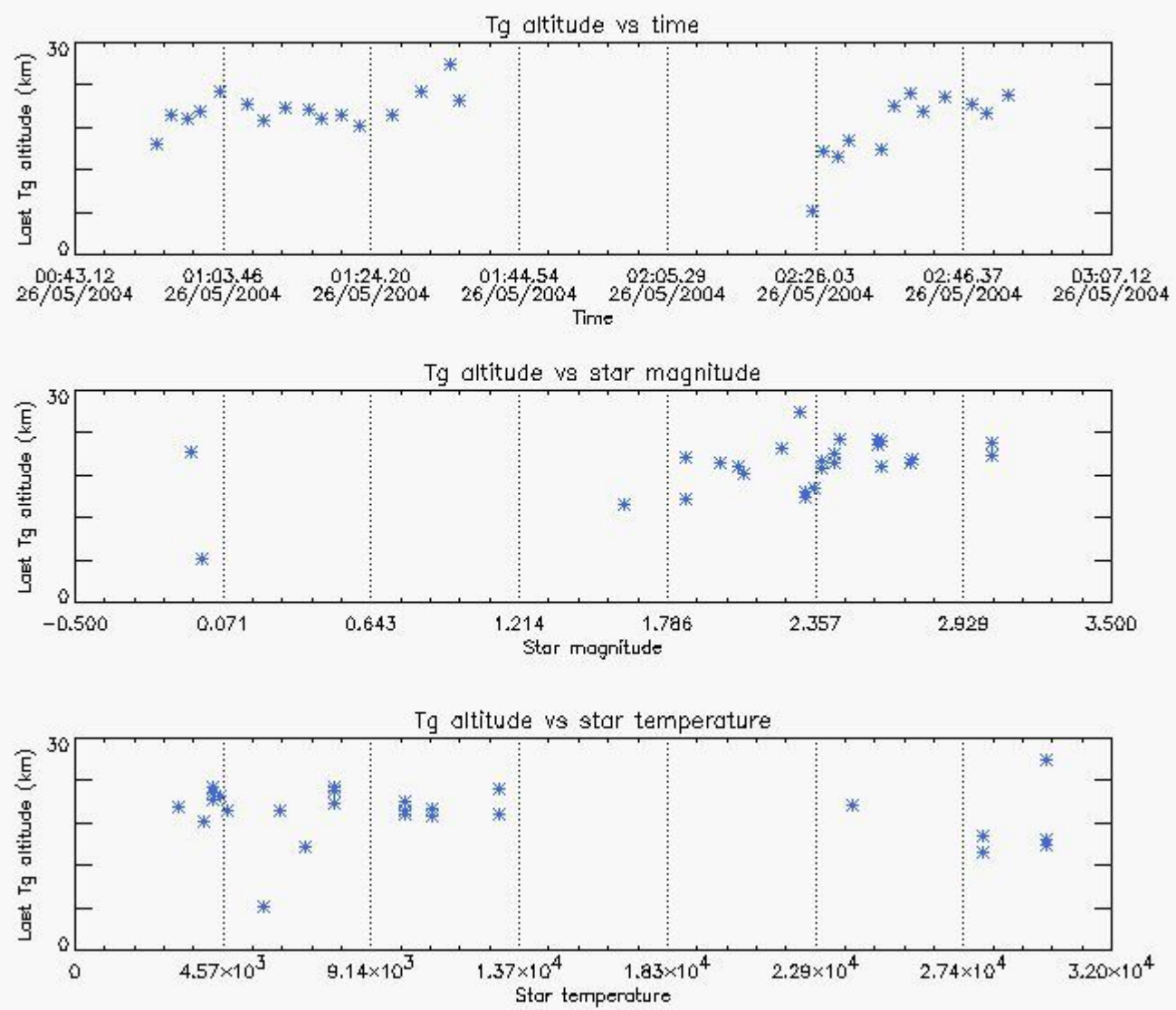
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



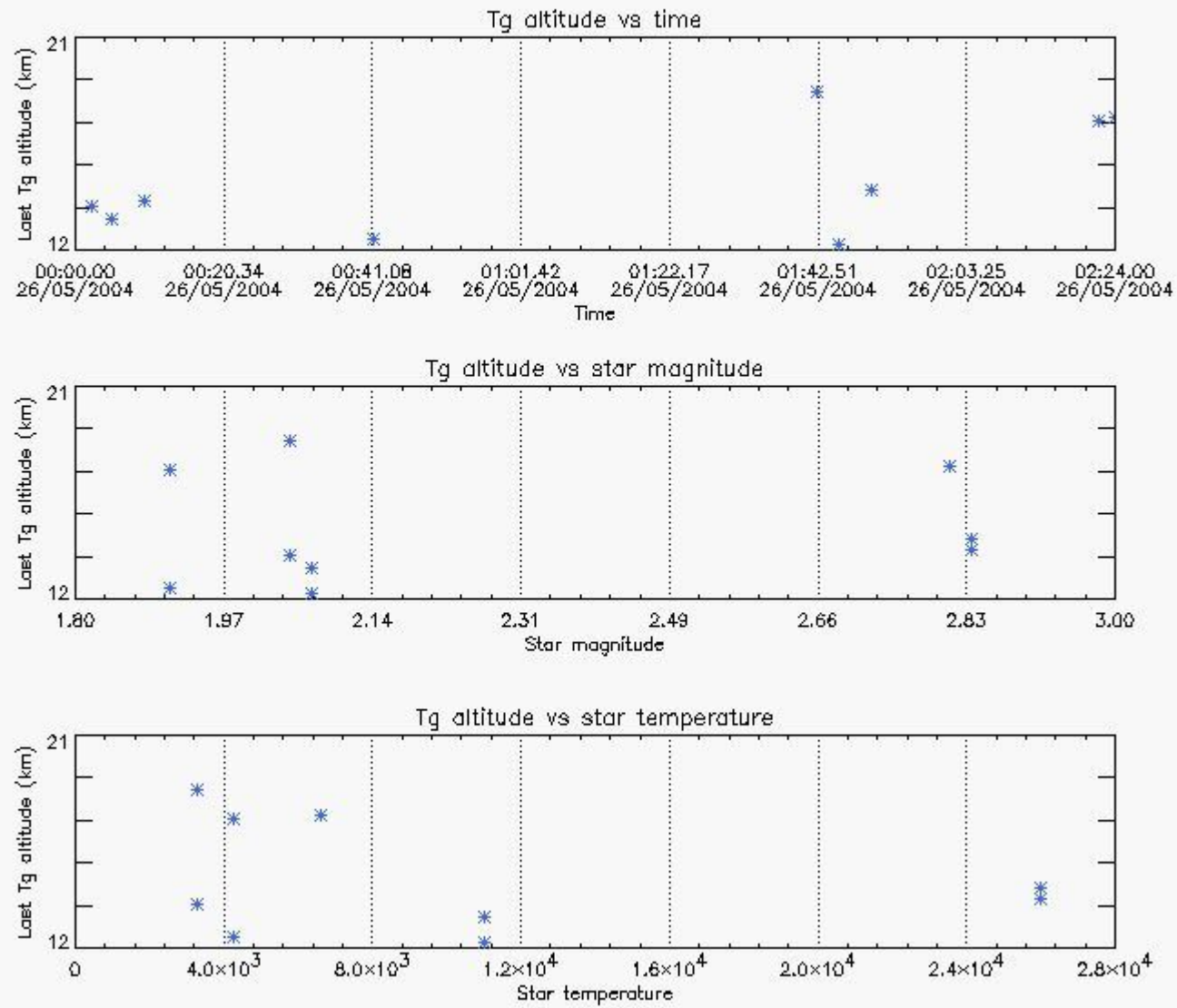
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

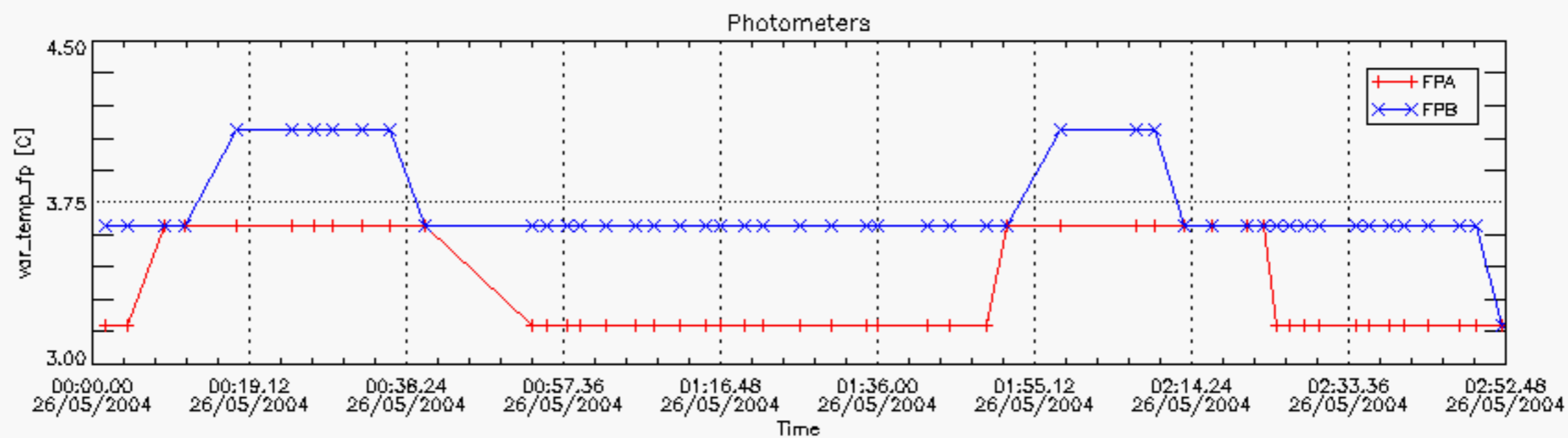
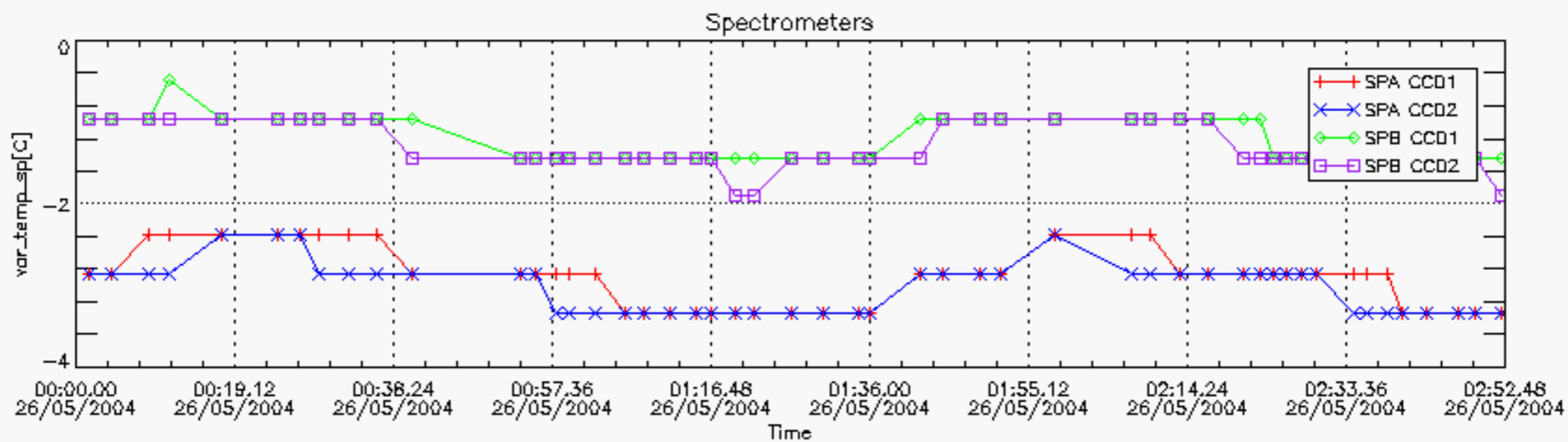
Tangent altitude at which the star is lost

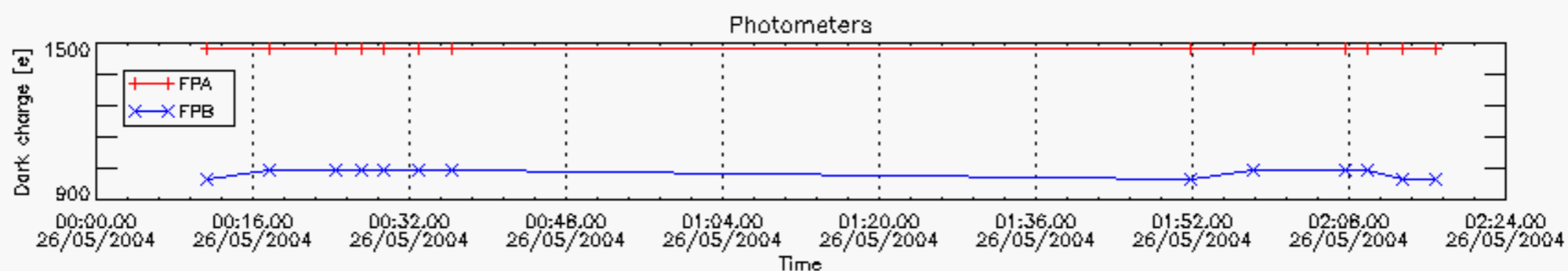
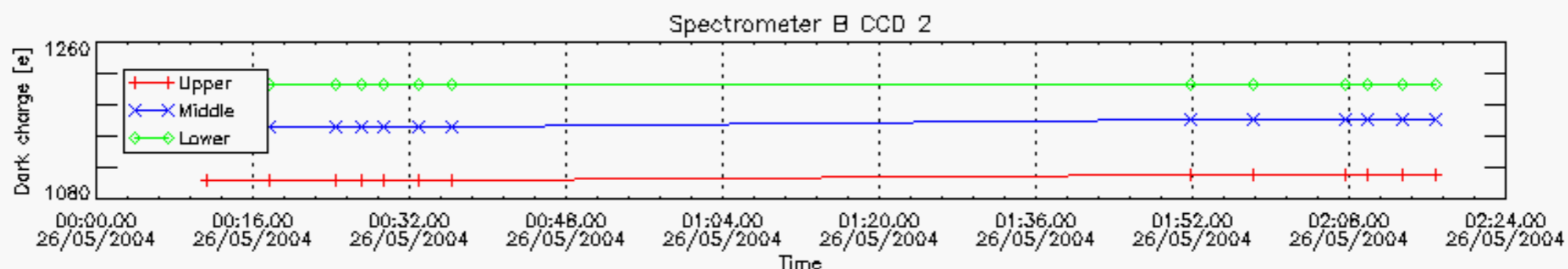
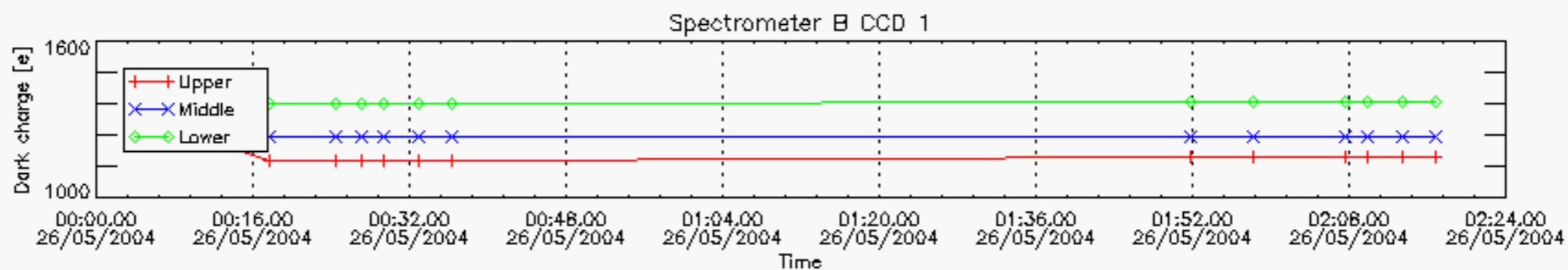
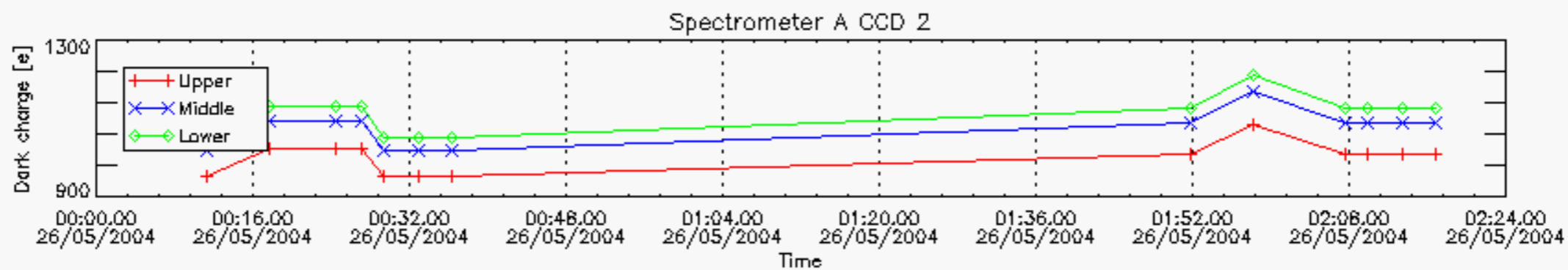
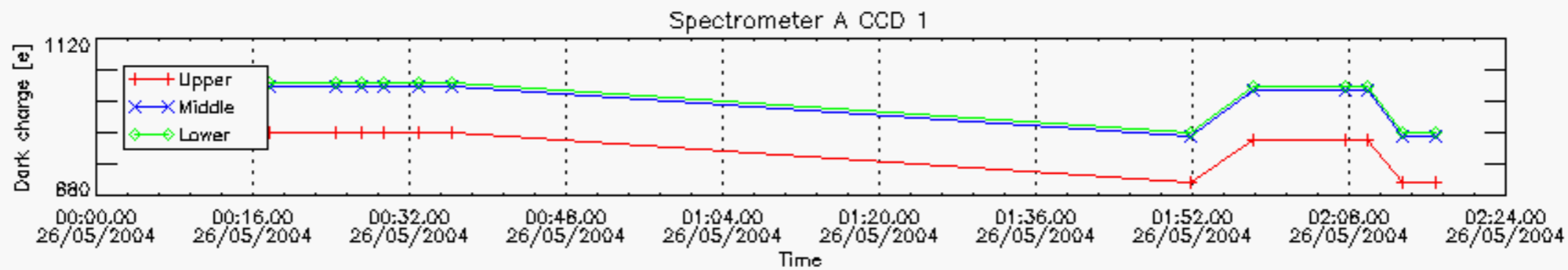


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

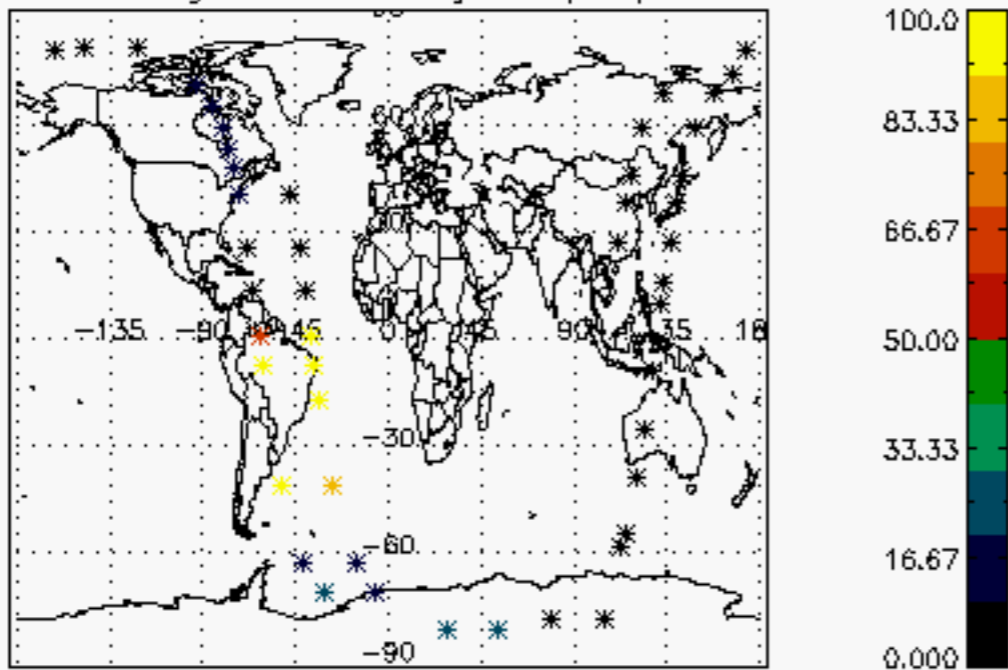
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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	1446.8	1461.6	1446.7
St. deviation:	4.3698	5.8447	6.5040	7.7758
Maximum:	1491.0	1483.0	1509.0	1498.0
Minimum:	1441.0	1423.0	1411.0	1391.0
Number of data:	15750.	15750.	31700.	31700.

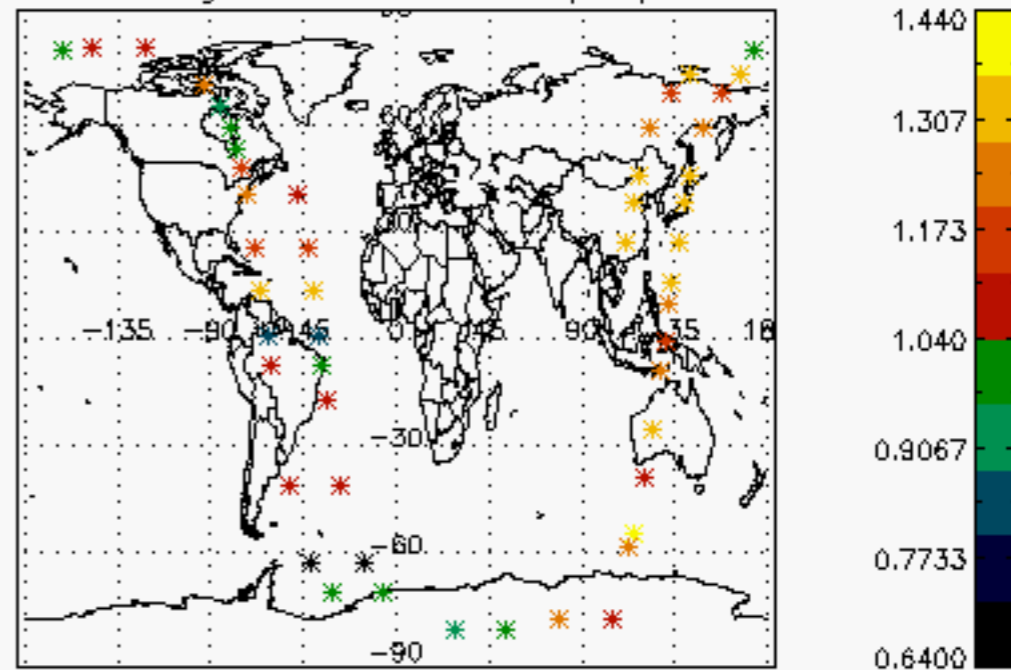




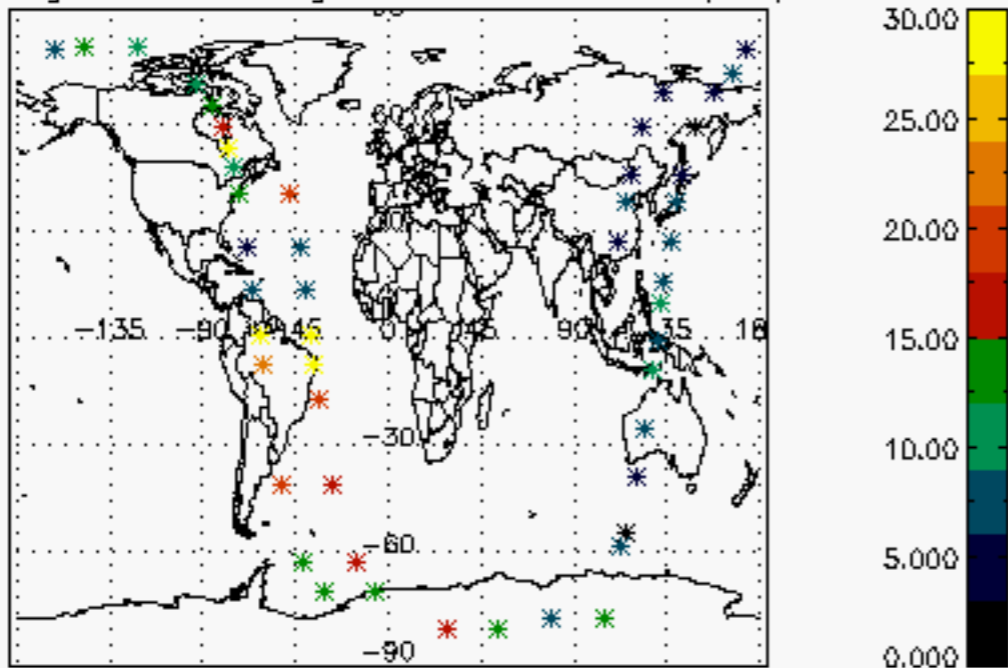
Percentage of cosmic ray hits per profile



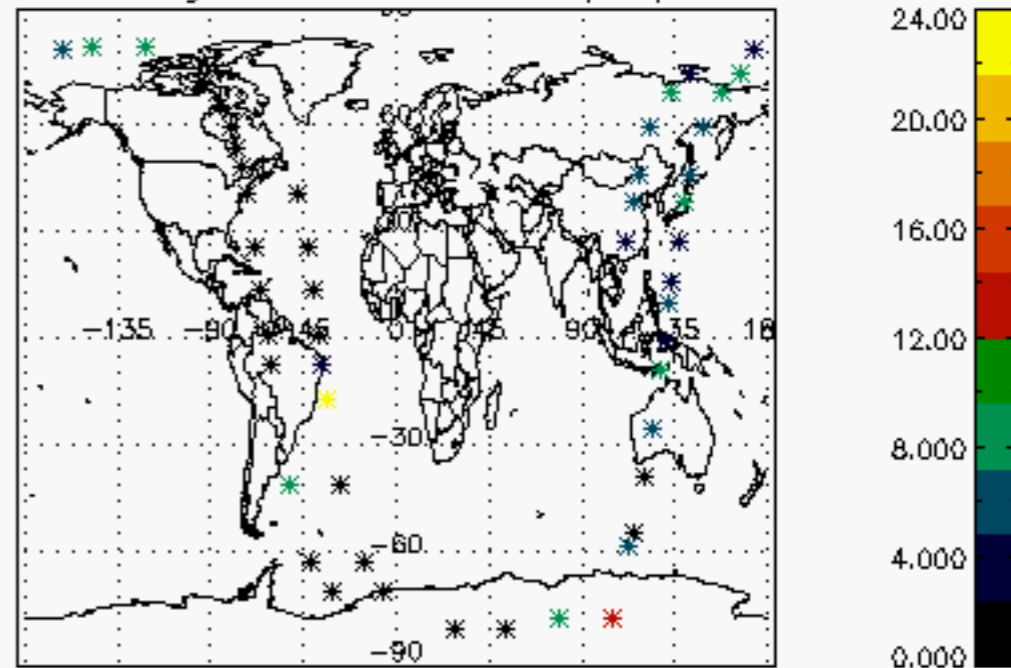
Percentage of datation errors per profile



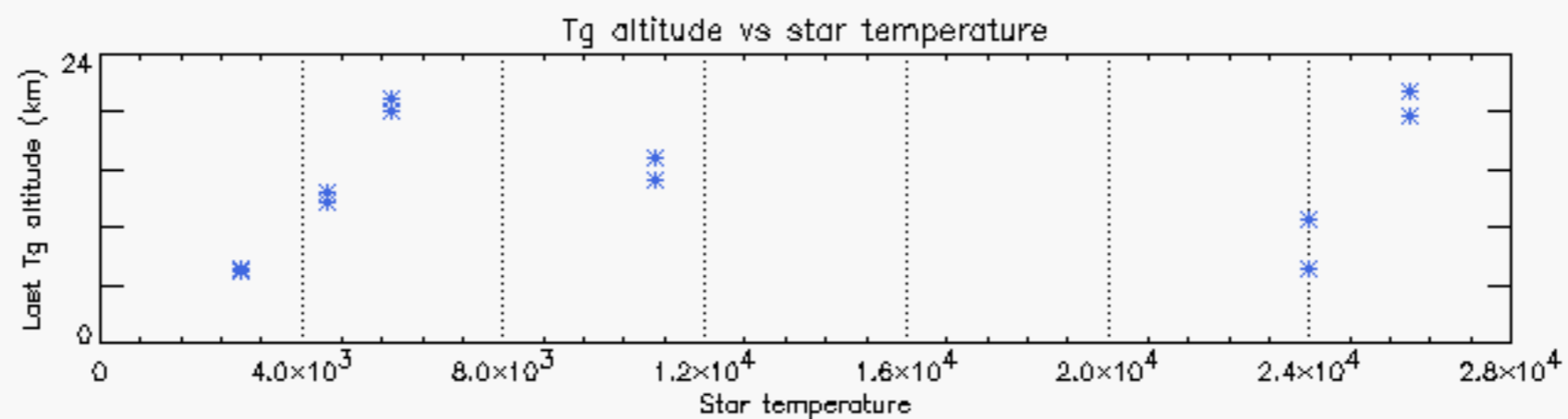
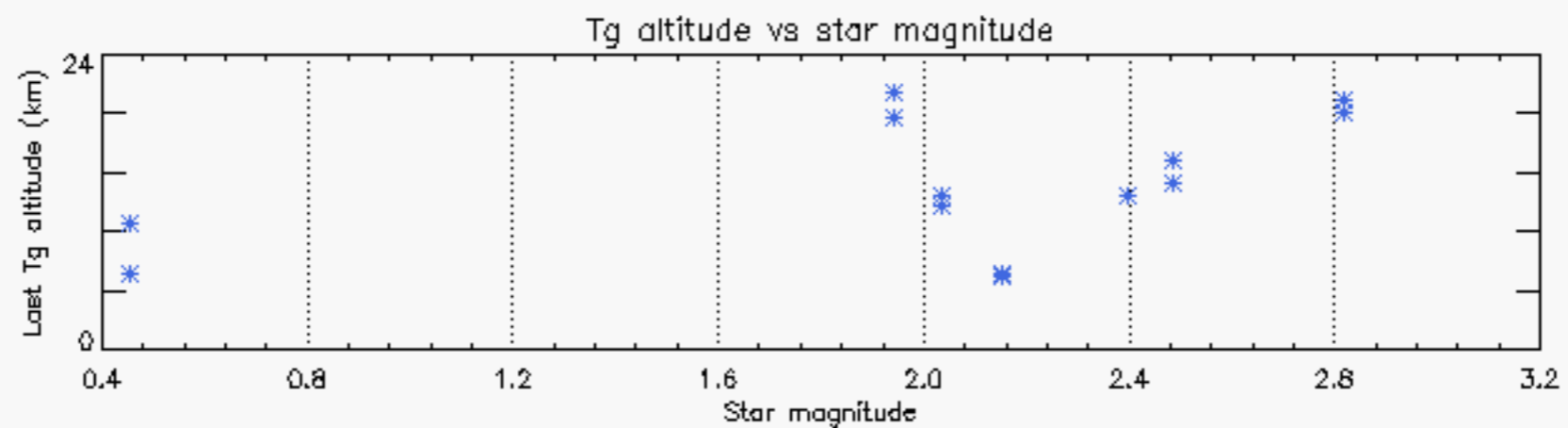
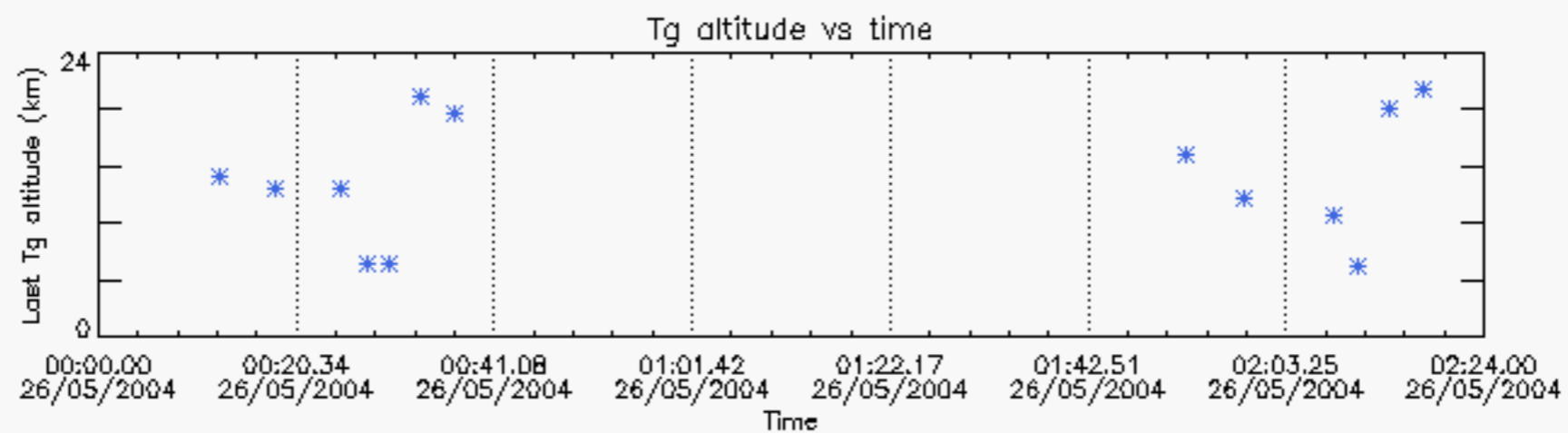
Percentage of star falling outside central band per profile



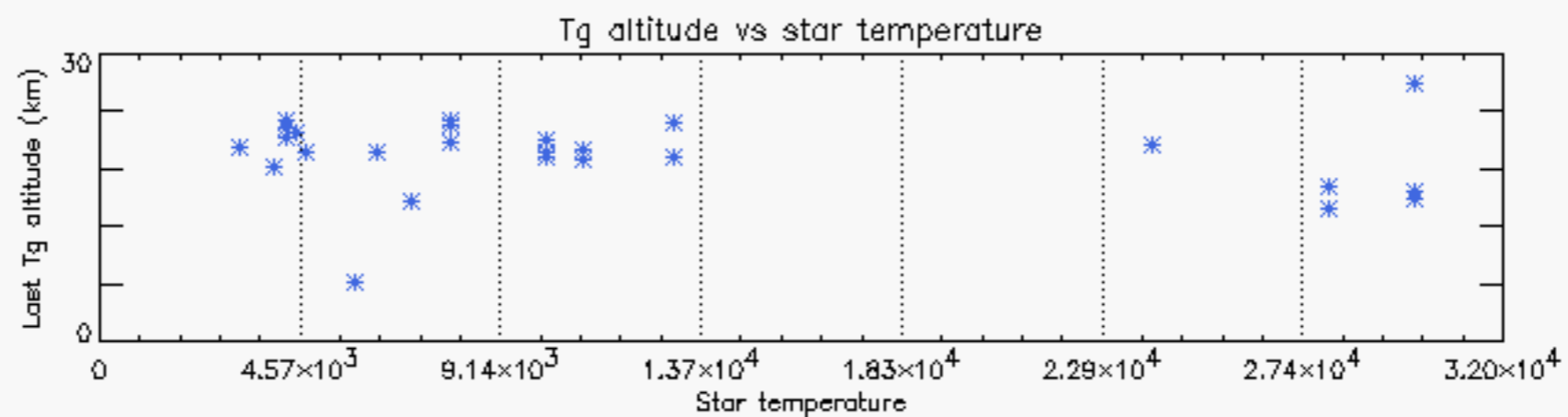
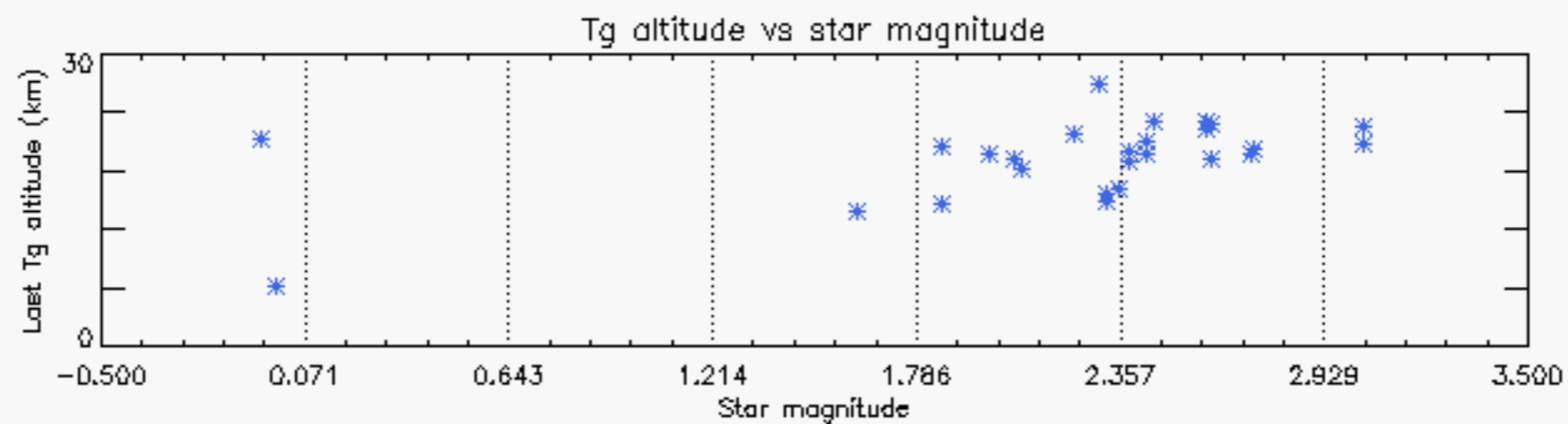
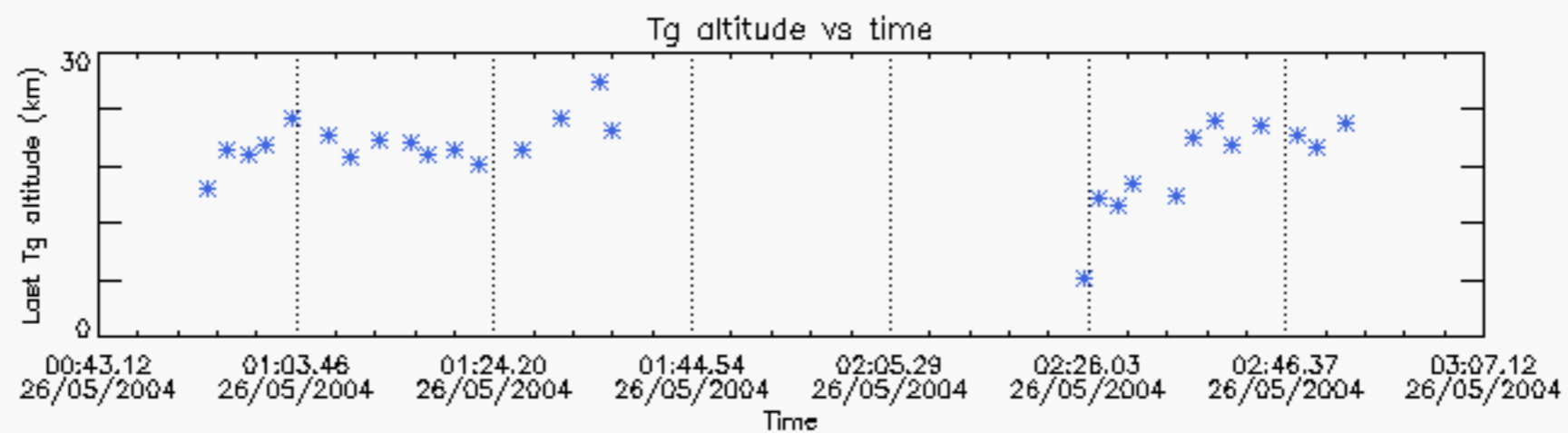
Percentage of saturation errors per profile



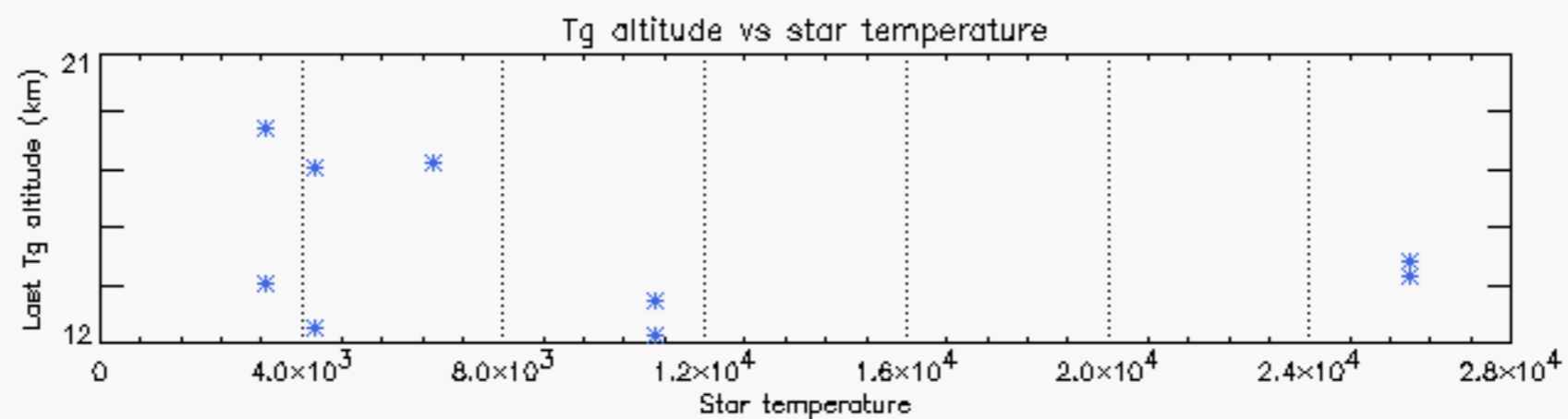
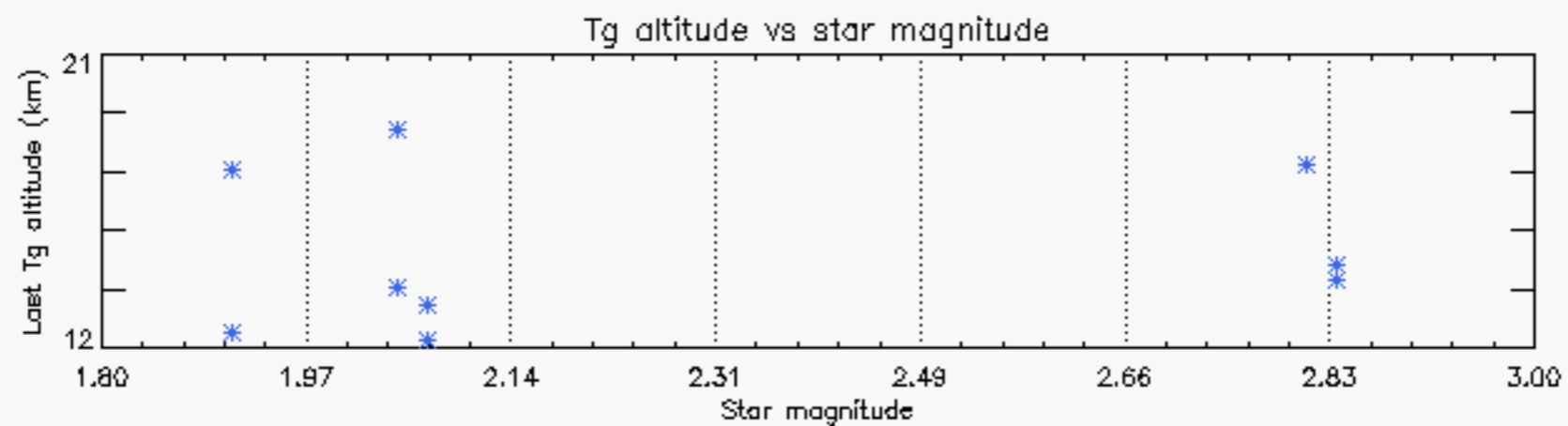
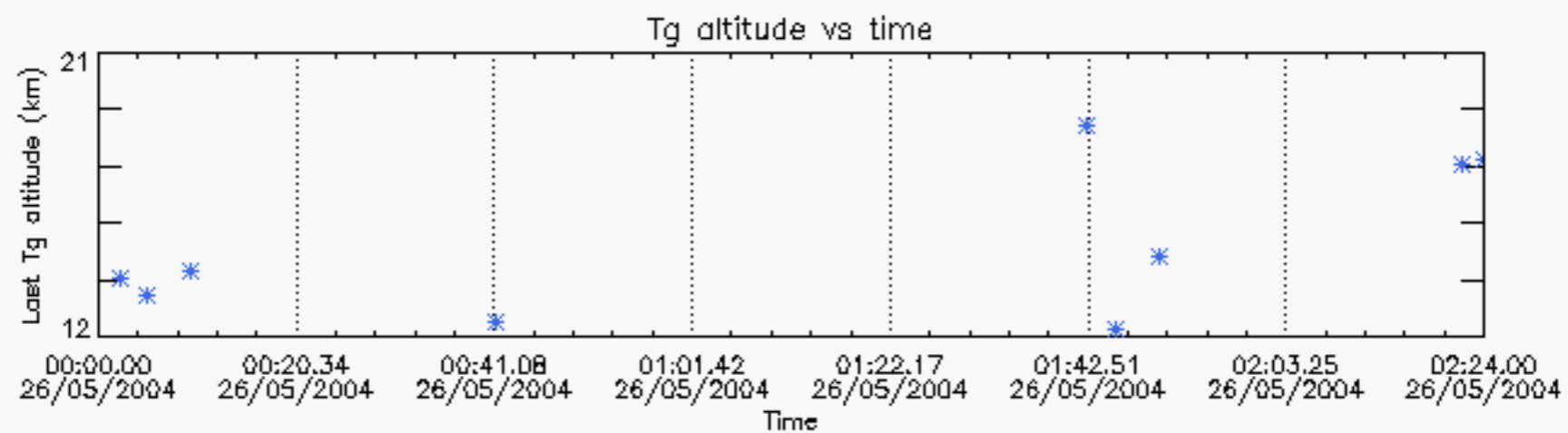
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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2;	-4139.5;	01-MAY-2004	05:48:07;	Bright;	36.5;	121;	29Gam Vir	;	2.74;	7200;occ;	73;	0;	11339
3;	-3940.9;	01-MAY-2004	05:51:25;	Bright;	37.0;	138;	47Eps Vir	;	2.83;	4700;occ;	74;	0;	11339
4;	-3804.9;	01-MAY-2004	05:53:41;	Bright;	39.0;	111;	8Eta Boo	;	2.68;	6000;occ;	78;	0;	11339
5;	-3585.7;	01-MAY-2004	05:57:21;	Bright;	43.0;	83;		;	2.38;	11000;occ;	86;	0;	11339
6;	-3477.6;	01-MAY-2004	05:59:09;	Bright;	37.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	75;	0;	11339
7;	-3306.6;	01-MAY-2004	06:02:00;	Bright;	36.0;	174;	52Psi UMa	;	3.00;	4400;occ;	72;	0;	11339
8;	-3203.1;	01-MAY-2004	06:03:43;	Bright;	37.0;	87;	64Gam UMa	;	2.43;	11000;occ;	74;	0;	11339
9;	-3118.2;	01-MAY-2004	06:05:08;	Bright;	38.0;	82;	48Bet UMa	;	2.37;	10600;occ;	76;	0;	11339
10;	-3040.1;	01-MAY-2004	06:06:26;	Bright;	40.0;	36;	50Alp UMa	;	1.80;	6300;occ;	80;	0;	11339
11;	-2819.8;	01-MAY-2004	06:10:06;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	11339
12;	-2592.8;	01-MAY-2004	06:13:53;	Bright;	37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	11339
13;	-2211.3;	01-MAY-2004	06:20:15;	Bright;	43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;	11339
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15;	-2036.9;	01-MAY-2004	06:23:09;	Bright;	38.5;	68;	18Alp Cas	;	2.22;	4500;occ;	77;	0;	11339
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21;	-792.7;	01-MAY-2004	06:43:53;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	90;	0;	11339
22;	-628.3;	01-MAY-2004	06:46:38;	Dark	;	154;	22Bet Aqr	;	2.90;	5700;occ;	140;	0;	11339
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24;	-361.7;	01-MAY-2004	06:51:05;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	11339
25;	-233.8;	01-MAY-2004	06:53:12;	Dark	;	172;	Gam Gru	;	3.00;	13100;occ;	87;	0;	11339
26;	-144.2;	01-MAY-2004	06:54:42;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	92;	0;	11339
27;	11.1;	01-MAY-2004	06:57:17;	Dark	;	148;	Alp Tuc	;	2.88;	4100;occ;	102;	0;	11340
28;	185.4;	01-MAY-2004	07:00:12;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	85;	0;	11340
29;	579.0;	01-MAY-2004	07:06:45;	Dark	;	43;	Alp TrA	;	1.91;	4250;occ;	86;	0;	11340
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4;	-4137.9;	02-MAY-2004	00:14:43;	Bright;	37.5;	121;	29Gam Vir	;	2.74;	7200;occ;	75;	0;	11350	
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25;-11.1; 24-MAY-2004 04:53:24; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;11667
26; 220.8; 24-MAY-2004 04:57:16; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;11668
27; 410.6; 24-MAY-2004 05:00:25; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;11668
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30; 897.1; 24-MAY-2004 05:08:32; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;11668
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33; 1212.8; 24-MAY-2004 05:13:48; Dark ; 53.5; 75; 26Eps Sco ; 2.29; 4250;occ; 107; 0;11668
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22;-699.6; 24-MAY-2004 14:45:31; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;11673
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33; 1215.0; 24-MAY-2004 15:17:25; Dark ; 54.0; 75; 26Eps Sco ; 2.29; 4250;occ; 108; 0;11674
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7;-3797.9; 24-MAY-2004 15:34:28; Bright; 37.0; 3; 16Alp Boo ;-0.05; 4250;occ; 74; 0;11674
8;-3668.3; 24-MAY-2004 15:36:38; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;11674
9;-3478.1; 24-MAY-2004 15:39:48; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;11674
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19;-1653.9; 24-MAY-2004 16:10:12; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;11674
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21;-1229.6; 24-MAY-2004 16:17:17; Dark ; 48.0; 140; 88Gam Peg ; 2.83; 26000;occ; 96; 0;11674
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23;-699.2; 24-MAY-2004 16:26:07; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;11674
24;-424.0; 24-MAY-2004 16:30:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11674
25;-238.7; 24-MAY-2004 16:33:48; Dark ; 59.5; 18; 24Alp PsA ; 1.17; 9700;occ; 119; 0;11674
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27;-5.8; 24-MAY-2004 16:37:41; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;11674
28; 221.3; 24-MAY-2004 16:41:28; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;11675
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31; 808.8; 24-MAY-2004 16:51:15; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;11675
32; 898.0; 24-MAY-2004 16:52:44; Dark ; 50.5; 4; Alp1Cen ;-0.01; 5800;occ; 101; 0;11675
33; 986.1; 24-MAY-2004 16:54:12; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;11675
34; 1096.3; 24-MAY-2004 16:56:03; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;11675
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6;	-4199.1;	24-MAY-2004	17:08:23;	Bright	;	44.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	88;	0;	11675
7;	-4016.1;	24-MAY-2004	17:11:26;	Bright	;	41.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	82;	0;	11675
8;	-3797.8;	24-MAY-2004	17:15:05;	Bright	;	37.0;	3;	16Alp	Boo	;	-0.05;	4250;	occ;	74;	0;	11675
9;	-3668.5;	24-MAY-2004	17:17:14;	Bright	;	37.5;	83;			;	2.38;	11000;	occ;	75;	0;	11675
10;	-3478.4;	24-MAY-2004	17:20:24;	Bright	;	37.5;	180;	27Gam	Boo	;	3.04;	8000;	occ;	75;	0;	11675
11;	-3285.7;	24-MAY-2004	17:23:37;	Bright	;	38.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	76;	0;	11675
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13;	-3103.3;	24-MAY-2004	17:26:39;	Bright	;	39.0;	87;	64Gam	UMa	;	2.43;	11000;	occ;	78;	0;	11675
14;	-3000.8;	24-MAY-2004	17:28:22;	Bright	;	41.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	82;	0;	11675
15;	-2867.3;	24-MAY-2004	17:30:35;	Bright	;	38.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	77;	0;	11675
16;	-2591.9;	24-MAY-2004	17:35:10;	Bright	;	39.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	78;	0;	11675
17;	-2352.5;	24-MAY-2004	17:39:10;	Bright	;	48.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	97;	0;	11675
18;	-2101.9;	24-MAY-2004	17:43:20;	Bright	;	37.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	74;	0;	11675
19;	-2030.6;	24-MAY-2004	17:44:32;	Bright	;	45.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	90;	0;	11675
20;	-1654.0;	24-MAY-2004	17:50:48;	Bright	;	40.5;	53;	43Bet	And	;	2.05;	3300;	occ;	81;	0;	11675
21;	-1500.3;	24-MAY-2004	17:53:22;	Dark	;	50.5;	58;	21Alp	And	;	2.07;	11000;	occ;	101;	0;	11675
22;	-1229.7;	24-MAY-2004	17:57:53;	Dark	;	47.0;	140;	88Gam	Peg	;	2.83;	26000;	occ;	94;	0;	11675
23;	-1088.8;	24-MAY-2004	18:00:14;	Dark	;	70.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	141;	0;	11675
24;	-698.7;	24-MAY-2004	18:06:44;	Dark	;	49.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	98;	0;	11675
25;	-423.7;	24-MAY-2004	18:11:19;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	11675
26;	-127.8;	24-MAY-2004	18:16:15;	Dark	;	43.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	86;	0;	11675
27;	-5.0;	24-MAY-2004	18:18:17;	Dark	;	48.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	96;	0;	11675
28;	221.6;	24-MAY-2004	18:22:04;	Dark	;	39.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	78;	0;	11676
29;	417.9;	24-MAY-2004	18:25:20;	Dark	;	43.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	87;	0;	11676
30;	682.5;	24-MAY-2004	18:29:45;	Dark	;	39.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	78;	0;	11676
31;	809.5;	24-MAY-2004	18:31:52;	Dark	;	38.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	76;	0;	11676
32;	898.3;	24-MAY-2004	18:33:21;	Dark	;	50.0;	4;	Alp1Cen		;	-0.01;	5800;	occ;	100;	0;	11676
33;	986.8;	24-MAY-2004	18:34:49;	Dark	;	51.0;	40;	The	Sco	;	1.86;	7100;	occ;	102;	0;	11676

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2;	-4938.9;	24-MAY-2004	18:36:39;	Dark	;	51.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	103;	0;	11676
3;	-4819.9;	24-MAY-2004	18:38:38;	Dark	;	56.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	112;	0;	11676
4;	-4650.6;	24-MAY-2004	18:41:28;	Dark	;	59.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	118;	0;	11676
5;	-4557.5;	24-MAY-2004	18:43:01;	Bright	;	42.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	85;	0;	11676
6;	-4456.2;	24-MAY-2004	18:44:42;	Bright	;	53.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	106;	0;	11676
7;	-4301.0;	24-MAY-2004	18:47:17;	Bright	;	39.0;	104;	27Bet	Lib	;	2.61;	13100;	occ;	78;	0;	11676
8;	-4199.1;	24-MAY-2004	18:48:59;	Bright	;	44.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	88;	0;	11676
9;	-4015.4;	24-MAY-2004	18:52:03;	Bright	;	40.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	80;	0;	11676
10;	-3797.0;	24-MAY-2004	18:55:41;	Bright	;	36.5;	3;	16Alp	Boo	;	-0.05;	4250;	occ;	73;	0;	11676
11;	-3668.2;	24-MAY-2004	18:57:50;	Bright	;	40.0;	83;			;	2.38;	11000;	occ;	80;	0;	11676
12;	-3477.5;	24-MAY-2004	19:01:01;	Bright	;	35.0;	180;	27Gam	Boo	;	3.04;	8000;	occ;	70;	0;	11676
13;	-3284.9;	24-MAY-2004	19:04:13;	Bright	;	36.5;	39;	85Eta	UMa	;	1.85;	24000;	occ;	73;	0;	11676
14;	-3181.8;	24-MAY-2004	19:05:57;	Bright	;	37.0;	55;	79Zet	UMa	;	2.06;	10200;	occ;	74;	0;	11676
15;	-3102.9;	24-MAY-2004	19:07:15;	Bright	;	39.0;	87;	64Gam	UMa	;	2.43;	11000;	occ;	78;	0;	11676
16;	-3000.2;	24-MAY-2004	19:08:58;	Bright	;	41.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	83;	0;	11676
17;	-2866.6;	24-MAY-2004	19:11:12;	Bright	;	38.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	76;	0;	11676
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