

GOMOS Daily Report 27-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	29MAY2004 03:54:11
Data source version	GOMOS/4.02
Start time of products	27-MAY-2004 (27MAY2004 00:00:00)
Stop time of products	28-MAY-2004 (28MAY2004 00:00:00)

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

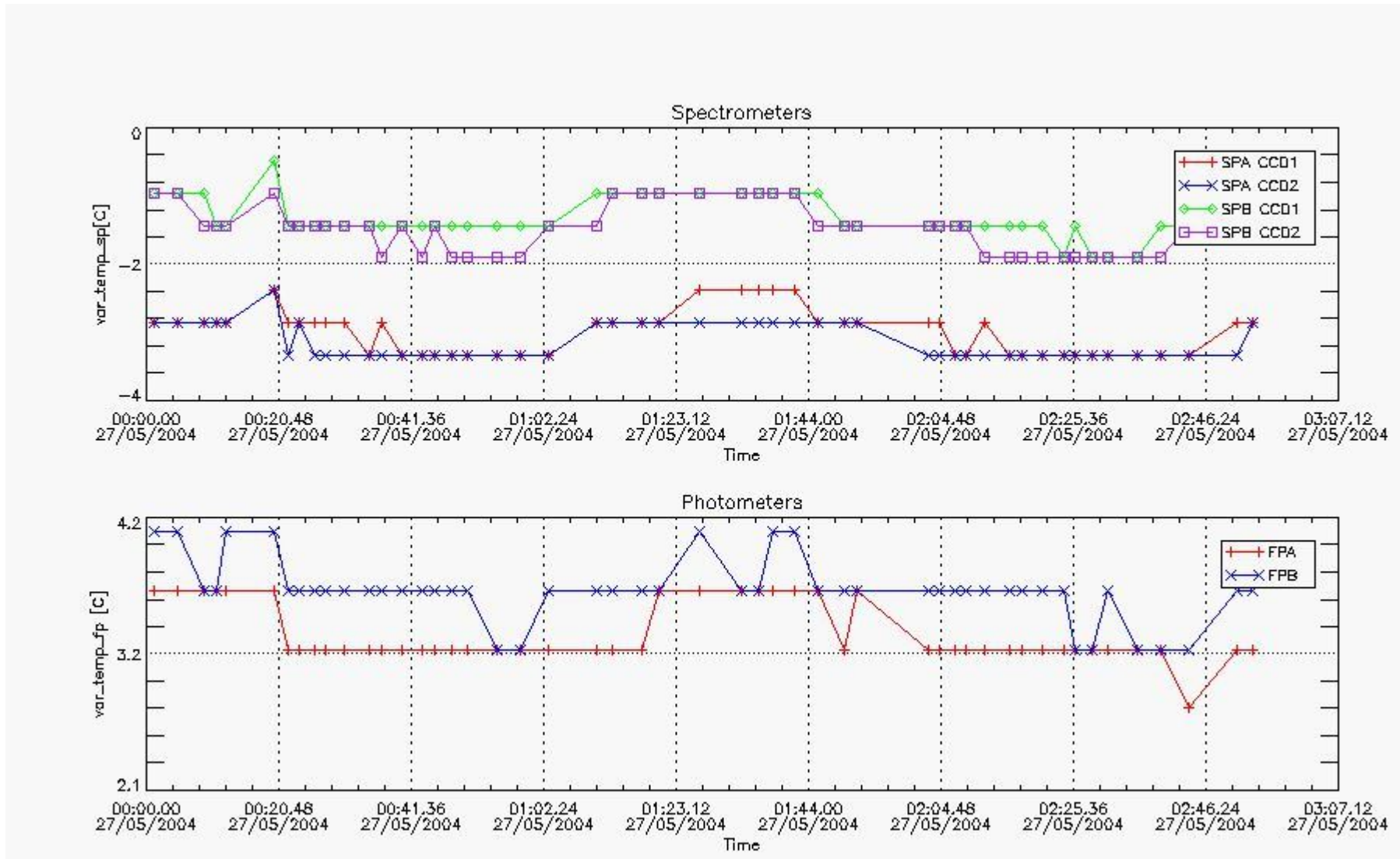
2. Summary of products arrived in PCF

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_1PNPDE20040527_000117_000000382027_00131_11708_0026.N1	27-MAY-2004 00:01:17	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	11708	No
GOM_TRA_1PNPDE20040527_000452_000000442027_00131_11708_0027.N1	27-MAY-2004 00:04:52	Dark	44.000	45	Alp Pav	1.9400	26000.	88	11708	No
GOM_TRA_1PNPDE20040527_000901_000000402027_00131_11708_0028.N1	27-MAY-2004 00:09:01	Twilight	39.500	43	Alp TrA	1.9100	4250.0	79	11708	No
GOM_TRA_1PNPDE20040527_001107_000000412027_00131_11708_0029.N1	27-MAY-2004 00:11:07	Twilight	41.000	134	Bet TrA	2.8100	6600.0	82	11708	No
GOM_TRA_1PNPDE20040527_001234_000000452027_00131_11708_0030.N1	27-MAY-2004 00:12:34	Bright	44.500	4	Alp1Cen	-0.010000	5800.0	89	11708	No
GOM_TRA_1PNPDE20040527_002006_000000462027_00131_11708_0000.N1	27-MAY-2004 00:20:06	Bright	46.000	136	23Tau Sco	2.8220	30000.	92	11708	Yes
GOM_TRA_1PNPDE20040527_002216_000000432027_00131_11708_0001.N1	27-MAY-2004 00:22:16	Bright	43.000	80	7Del Sco	2.3160	30000.	86	11708	No
GOM_TRA_1PNPDE20040527_002355_000000512027_00131_11708_0002.N1	27-MAY-2004 00:23:55	Bright	51.000	86	35Eta Oph	2.4300	10200.	102	11708	No
GOM_TRA_1PNPDE20040527_002630_000000382027_00131_11708_0003.N1	27-MAY-2004 00:26:30	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	11708	No
GOM_TRA_1PNPDE20040527_002806_000000442027_00131_11708_0004.N1	27-MAY-2004 00:28:06	Bright	44.000	120	1Del Oph	2.7340	3200.0	88	11708	No
GOM_TRA_1PNPDE20040527_003109_000000402027_00131_11708_0005.N1	27-MAY-2004 00:31:09	Bright	40.000	102	24Alp Ser	2.6000	4250.0	80	11708	No
GOM_TRA_1PNPDE20040527_003455_000000382027_00131_11708_0006.N1	27-MAY-2004 00:34:55	Bright	37.500	3	16Alp Boo	-0.050000	4250.0	75	11708	No
GOM_TRA_1PNPDE20040527_003659_000000382027_00131_11708_0007.N1	27-MAY-2004 00:36:59	Bright	38.000	83		2.3780	11000.	76	11708	No
GOM_TRA_1PNPDE20040527_004010_000000382027_00131_11708_0008.N1	27-MAY-2004 00:40:10	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	11708	No
GOM_TRA_1PNPDE20040527_004325_000000382027_00131_11708_0009.N1	27-MAY-2004 00:43:25	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	11708	No
GOM_TRA_1PNPDE20040527_004511_000000402027_00131_11708_0010.N1	27-MAY-2004 00:45:11	Bright	39.500	55	79Zet UMa	2.0600	10200.	79	11708	No
GOM_TRA_1PNPDE20040527_004756_000000412027_00131_11708_0011.N1	27-MAY-2004 00:47:56	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	11708	No
GOM_TRA_1PNPDE20040527_005019_000000402027_00131_11708_0012.N1	27-MAY-2004 00:50:19	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	11708	No
GOM_TRA_1PNPDE20040527_005456_000000372027_00131_11708_0013.N1	27-MAY-2004 00:54:56	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	11708	No
GOM_TRA_1PNPDE20040527_005838_000000482027_00131_11708_0014.N1	27-MAY-2004 00:58:38	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	11708	No
GOM_TRA_1PNPDE20040527_010305_000000382027_00131_11708_0015.N1	27-MAY-2004 01:03:05	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	11708	No
GOM_TRA_1PNPDE20040527_011037_000000422027_00131_11708_0016.N1	27-MAY-2004 01:10:37	Twilight	42.000	53	43Bet And	2.0480	3300.0	84	11708	No
GOM_TRA_1PNPDE20040527_011313_000000542027_00131_11708_0017.N1	27-MAY-2004 01:13:13	Twilight	53.500	58	21Alp And	2.0730	11000.	107	11708	No
GOM_TRA_1PNPDE20040527_011752_000000522027_00131_11708_0018.N1	27-MAY-2004 01:17:52	Twilight	51.500	140	88Gam Peg	2.8340	26000.	103	11708	No
GOM_TRA_1PNPDE20040527_012027_000000752027_00131_11708_0019.N1	27-MAY-2004 01:20:27	Dark	75.000	90	54Alp Peg	2.4870	11000.	150	11708	No
GOM_TRA_1PNPDE20040527_012644_000000512027_00131_11708_0020.N1	27-MAY-2004 01:26:44	Dark	51.000	52	16Bet Cet	2.0370	4500.0	102	11708	No
GOM_TRA_1PNPDE20040527_013330_000000482027_00131_11708_0021.N1	27-MAY-2004 01:33:30	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	11708	No
GOM_TRA_1PNPDE20040527_013604_000000512027_00131_11708_0022.N1	27-MAY-2004 01:36:04	Dark	51.000	9	Alp Eri	0.45300	24000.	102	11708	No
GOM_TRA_1PNPDE20040527_013828_000000612027_00132_11709_0023.N1	27-MAY-2004 01:38:28	Dark	61.000	63	Bet Gru	2.1500	2800.0	122	11709	No
GOM_TRA_1PNPDE20040527_014153_000000392027_00132_11709_0024.N1	27-MAY-2004 01:41:53	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	11709	No
GOM_TRA_1PNPDE20040527_014528_000000462027_00132_11709_0025.N1	27-MAY-2004 01:45:28	Dark	46.000	45	Alp Pav	1.9400	26000.	92	11709	No
GOM_TRA_1PNPDE20040527_014937_000000432027_00132_11709_0026.N1	27-MAY-2004 01:49:37	Twilight	43.000	43	Alp TrA	1.9100	4250.0	86	11709	No
GOM_TRA_1PNPDE20040527_015142_000000432027_00132_11709_0027.N1	27-MAY-2004 01:51:42	Twilight	43.000	134	Bet TrA	2.8100	6600.0	86	11709	No
GOM_TRA_1PNPDE20040527_020252_000000442027_00132_11709_0000.N1	27-MAY-2004 02:02:52	Bright	43.500	80	7Del Sco	2.3160	30000.	87	11709	No
GOM_TRA_1PNPDE20040527_020431_000000512027_00132_11709_0001.N1	27-MAY-2004 02:04:31	Bright	51.000	86	35Eta Oph	2.4300	10200.	102	11709	No
GOM_TRA_1PNPDE20040527_020706_000000392027_00132_11709_0002.N1	27-MAY-2004 02:07:06	Bright	39.000	104	27Bet Lib	2.6140	13100.	78	11709	No
GOM_TRA_1PNPDE20040527_020842_000000442027_00132_11709_0003.N1	27-MAY-2004 02:08:42	Bright	44.000	120	1Del Oph	2.7340	3200.0	88	11709	No
GOM_TRA_1PNPDE20040527_021144_000000412027_00132_11709_0004.N1	27-MAY-2004 02:11:44	Bright	41.000	102	24Alp Ser	2.6000	4250.0	82	11709	No
GOM_TRA_1PNPDE20040527_021531_000000372027_00132_11709_0005.N1	27-MAY-2004 02:15:31	Bright	36.500	3	16Alp Boo	-0.050000	4250.0	73	11709	No
GOM_TRA_1PNPDE20040527_021735_000000382027_00132_11709_0006.N1	27-MAY-2004 02:17:35	Bright	37.500	83		2.3780	11000.	75	11709	No
GOM_TRA_1PNPDE20040527_022046_000000372027_00132_11709_0007.N1	27-MAY-2004 02:20:46	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11709	No
GOM_TRA_1PNPDE20040527_022402_000000362027_00132_11709_0008.N1	27-MAY-2004 02:24:02	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	11709	No
GOM_TRA_1PNPDE20040527_022548_000000382027_00132_11709_0009.N1	27-MAY-2004 02:25:48	Bright	37.500	55	79Zet UMa	2.0600	10200.	75	11709	No
GOM_TRA_1PNPDE20040527_022832_000000392027_00132_11709_0010.N1	27-MAY-2004 02:28:32	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	11709	No
GOM_TRA_1PNPDE20040527_023055_000000392027_00132_11709_0011.N1	27-MAY-2004 02:30:55	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	11709	No
GOM_TRA_1PNPDE20040527_023533_000000382027_00132_11709_0012.N1	27-MAY-2004 02:35:33	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	11709	No
GOM_TRA_1PNPDE20040527_023913_000000492027_00132_11709_0013.N1	27-MAY-2004 02:39:13	Bright	49.000	89	5Alp Cep	2.4510	8000.0	98	11709	No
GOM_TRA_1PNPDE20040527_024341_000000552027_00132_11709_0014.N1	27-MAY-2004 02:43:41	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	11709	No
GOM_TRA_1PNPDE20040527_025113_000000432027_00132_11709_0015.N1	27-MAY-2004 02:51:13	Twilight	43.000	53	43Bet And	2.0480	3300.0	86	11709	No

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



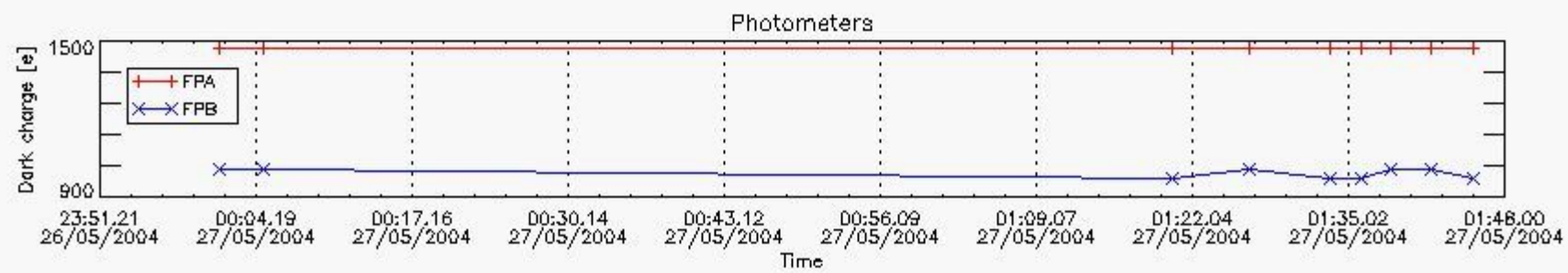
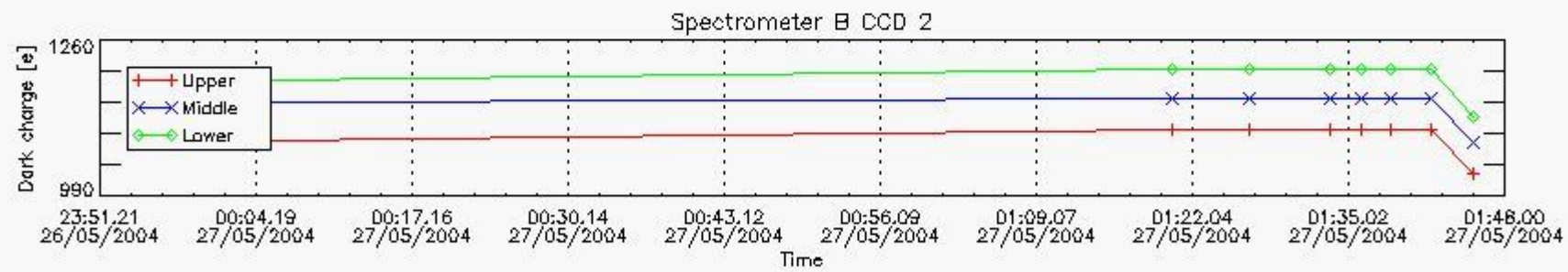
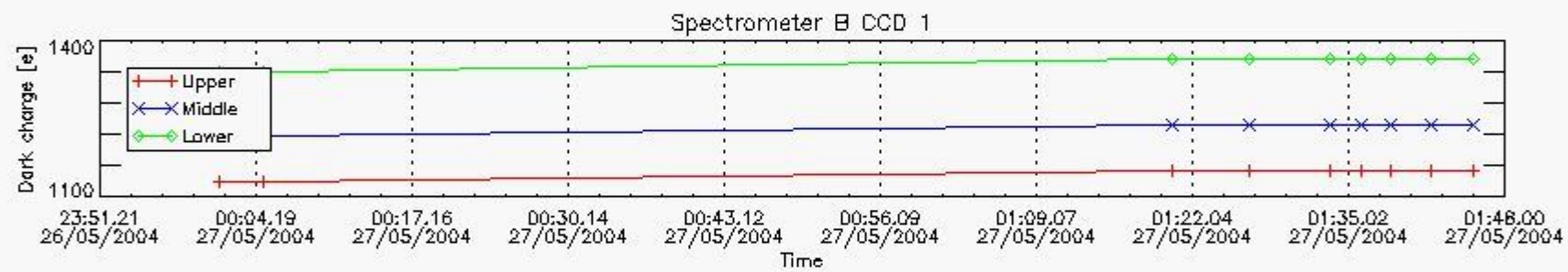
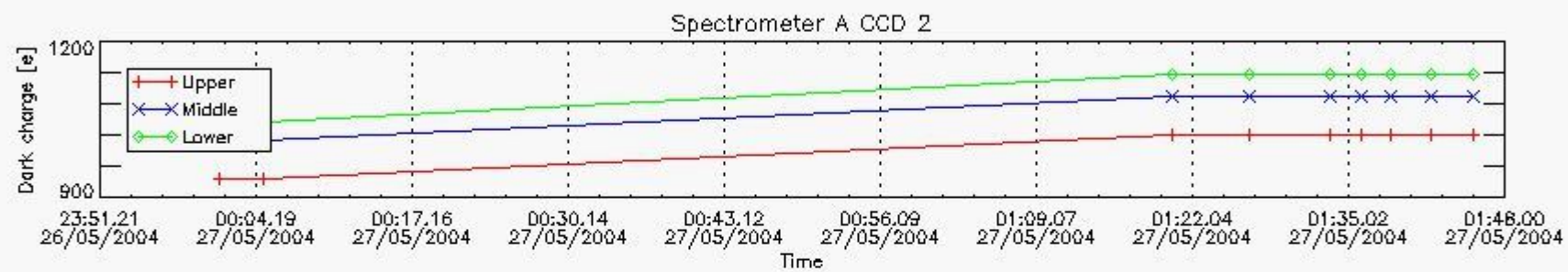
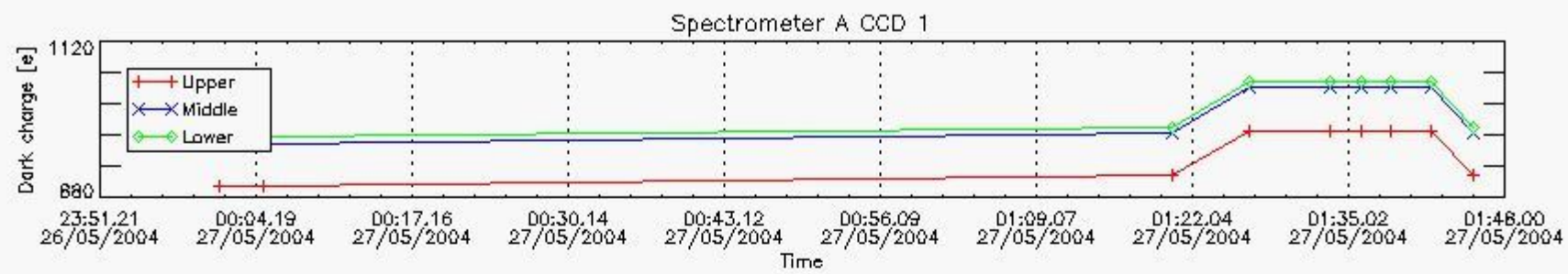
4. Overview of dark signal processing per product

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



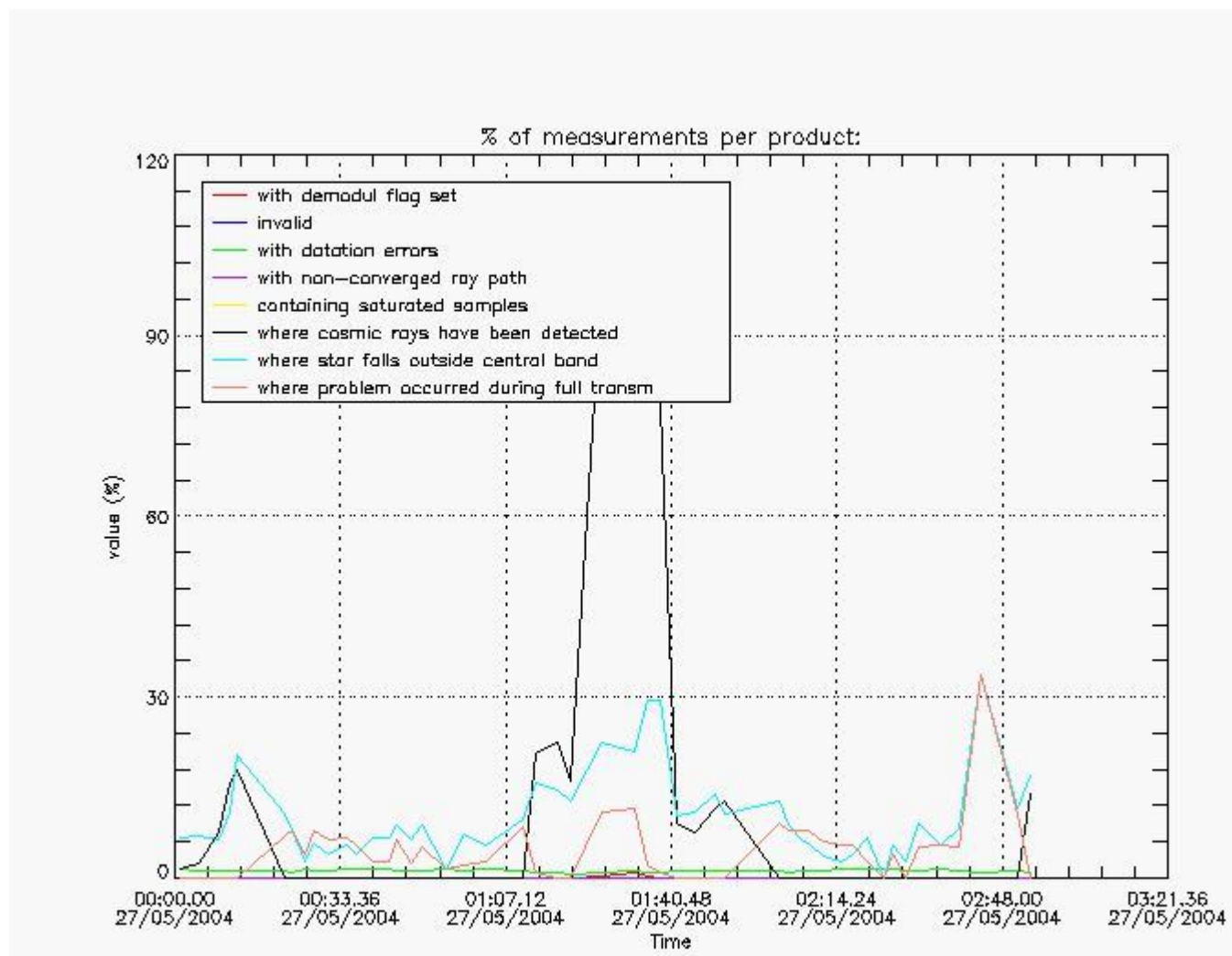
5. Demodulation flag and quality information monitoring

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:

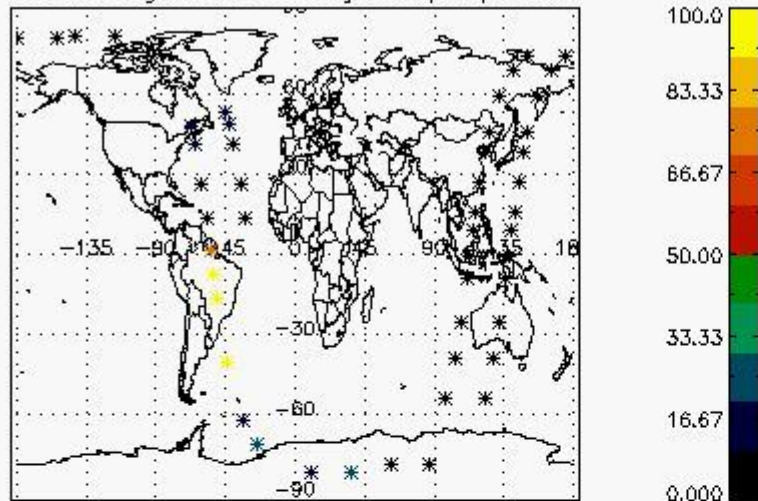
At least one measurement with demodulation flag set:	8.16327 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

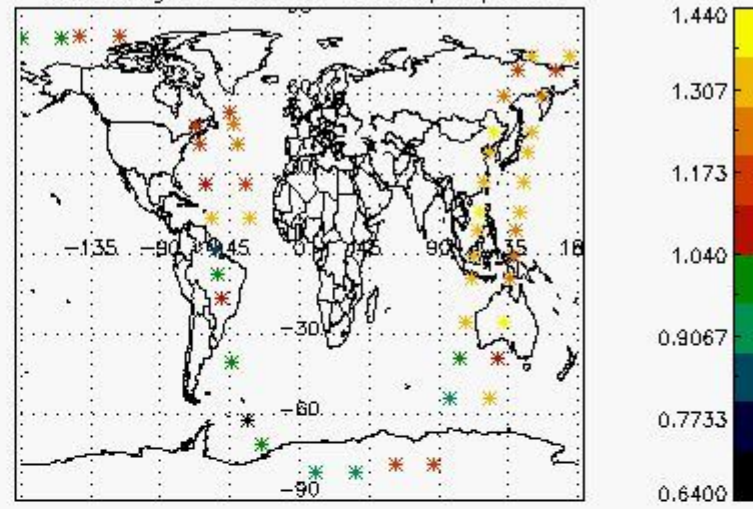


5.3 Plot quality information per product (world map)

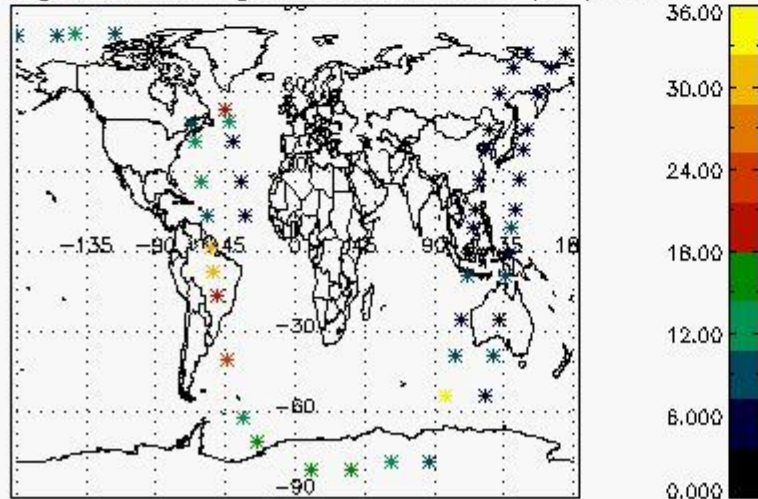
Percentage of cosmic ray hits per profile



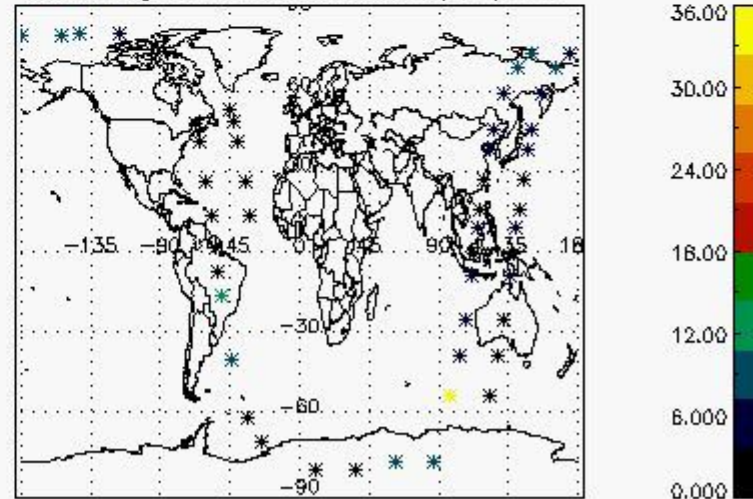
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



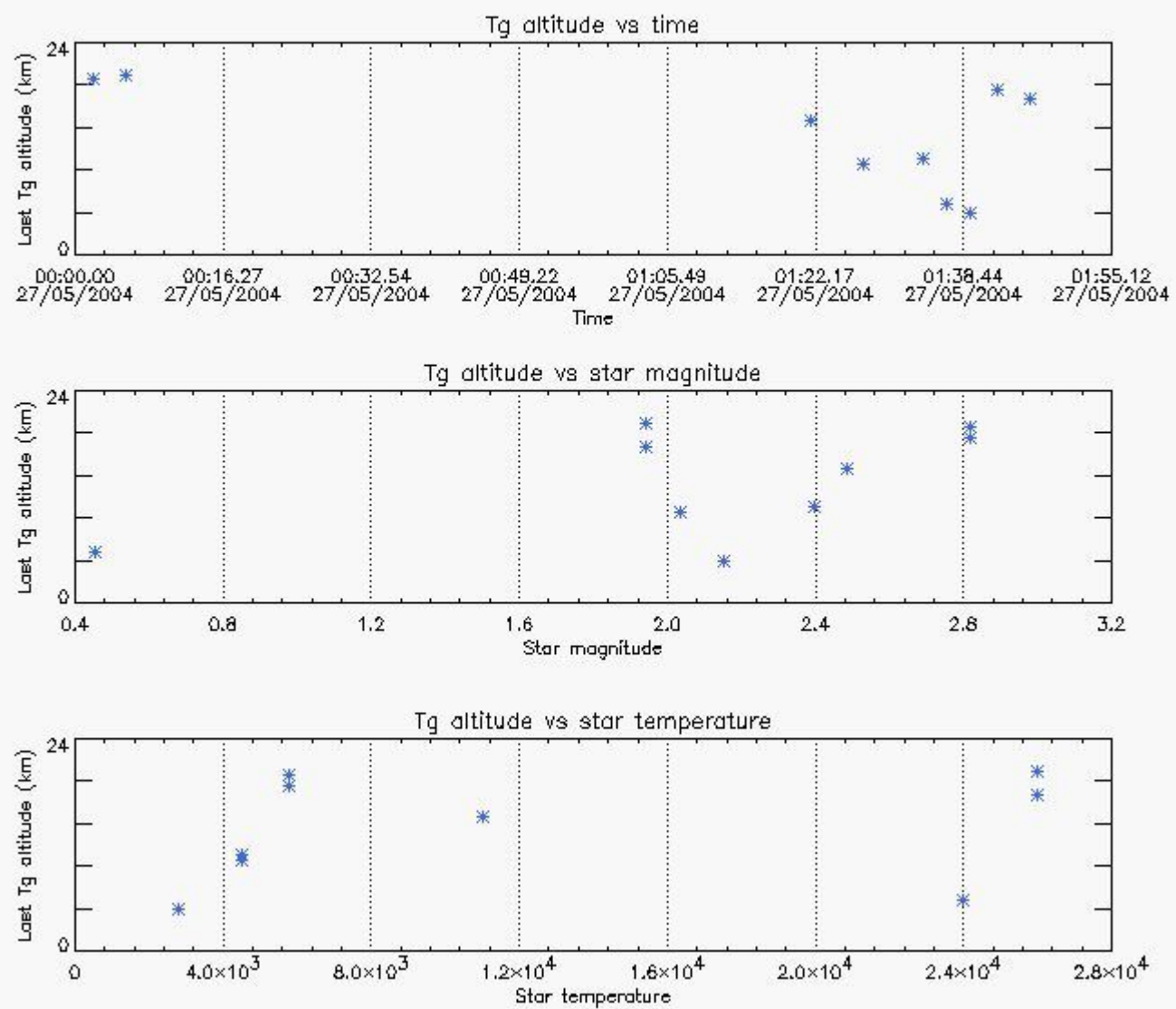
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.662	20.258	15.912
St. deviation:	5.9954	4.1281	2.5953
Maximum:	20.239	26.097	19.937
Minimum:	4.7642	4.2819	12.493
Number of data:	9.0000	31.000	9.0000

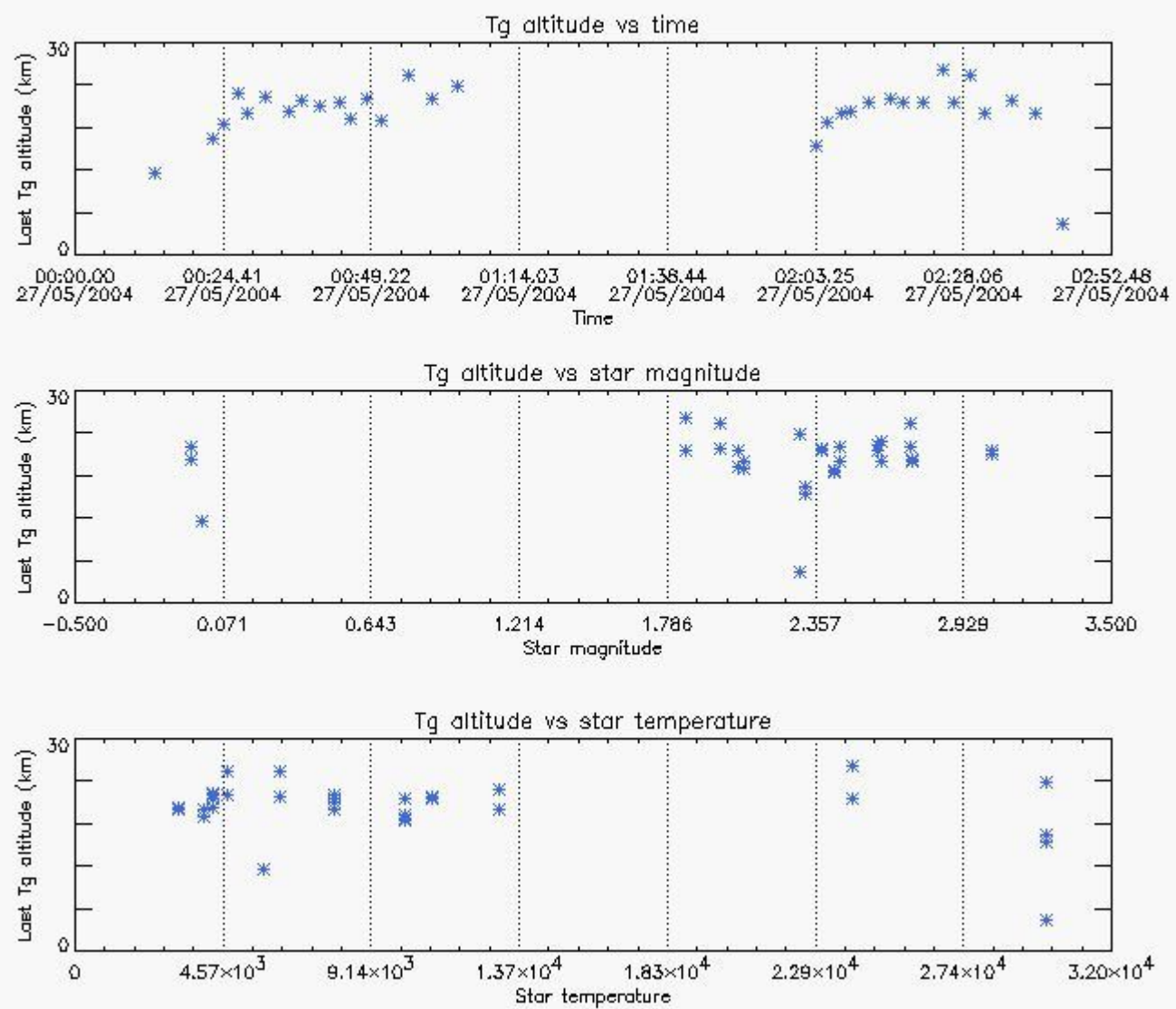
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



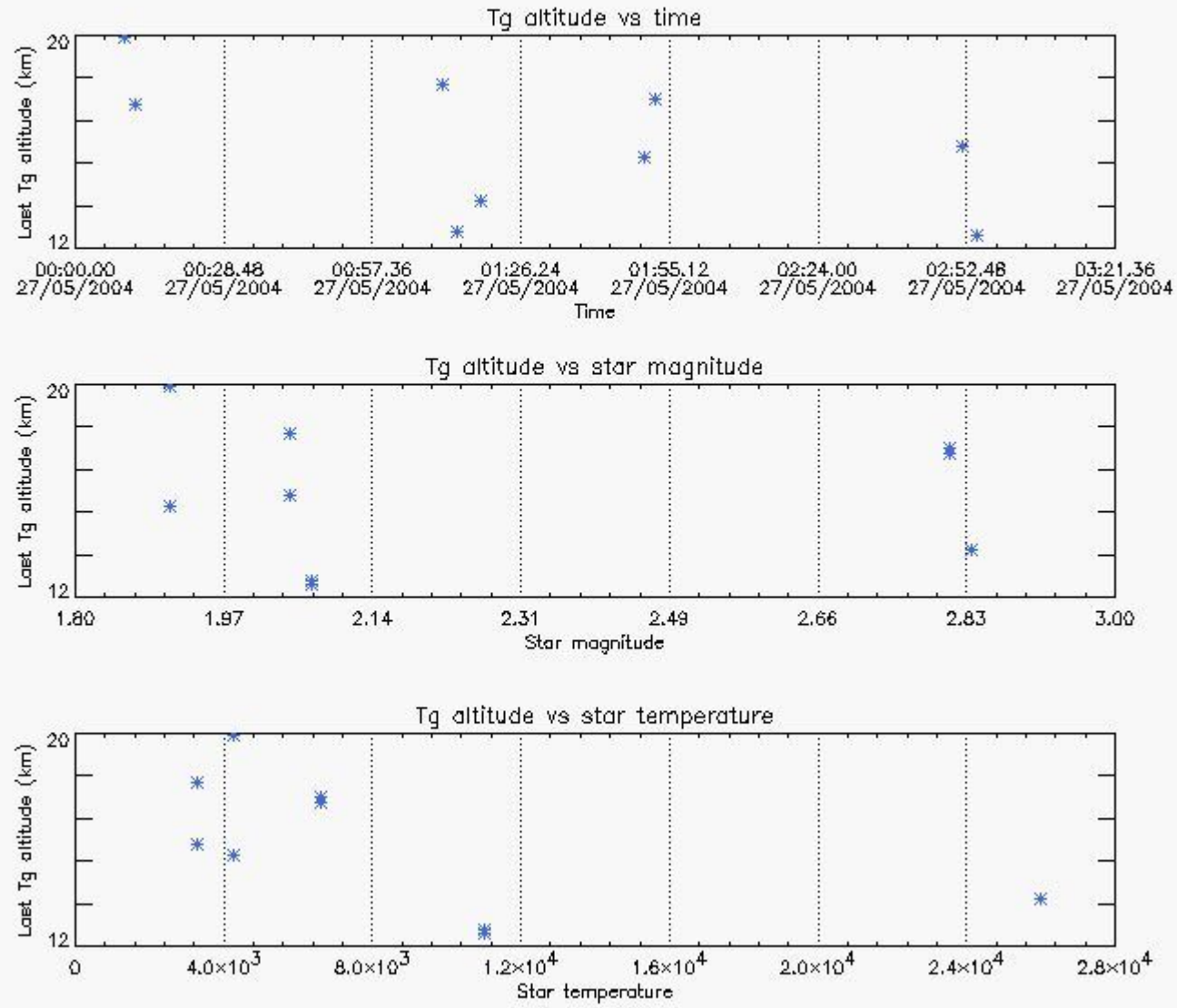
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

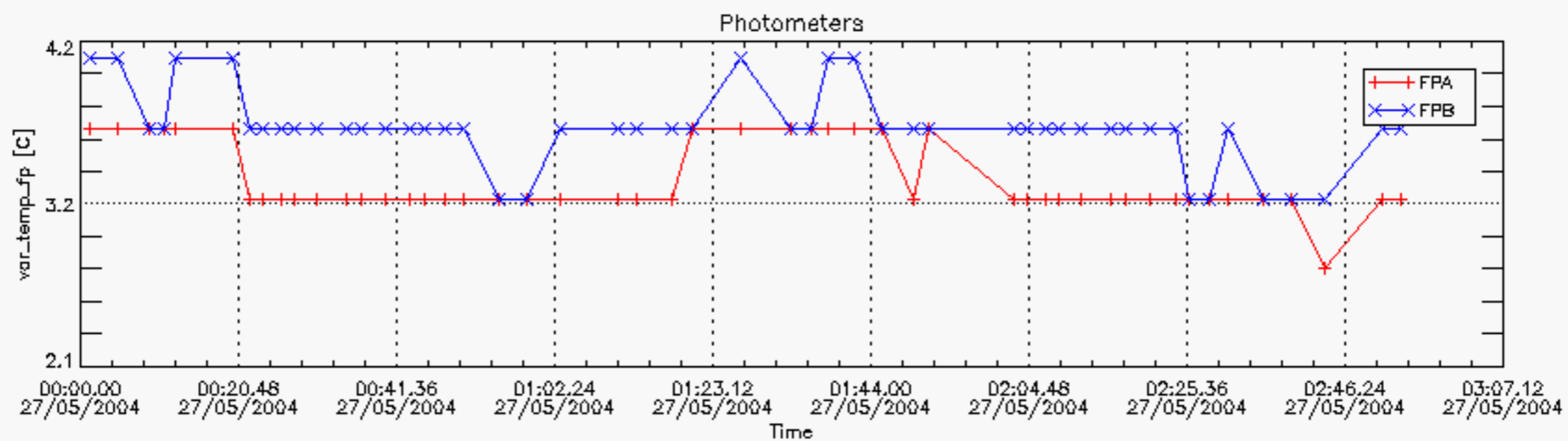
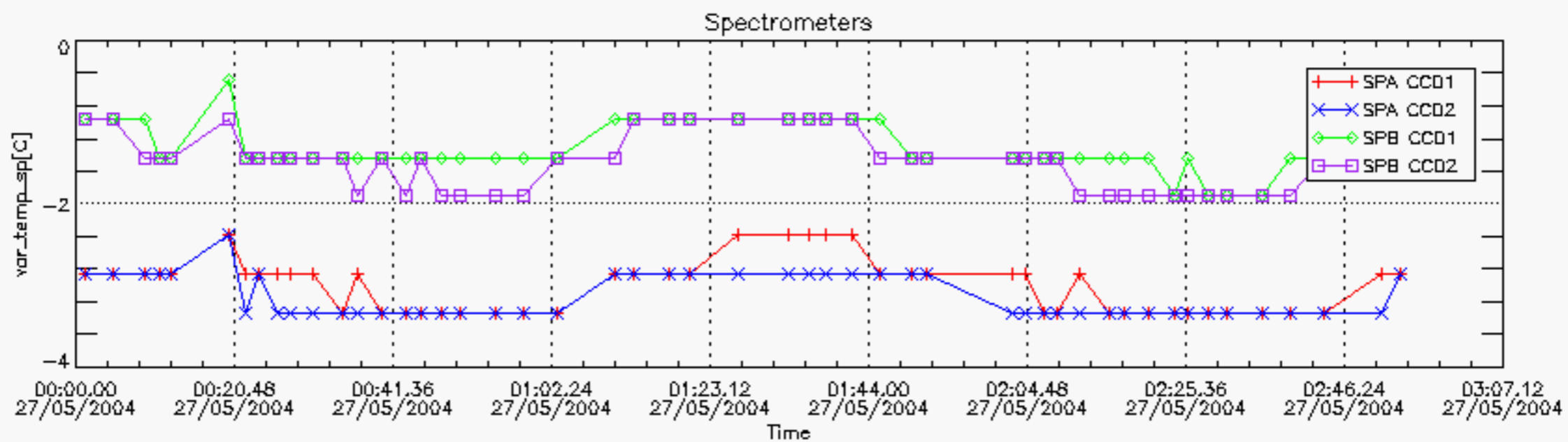
Tangent altitude at which the star is lost

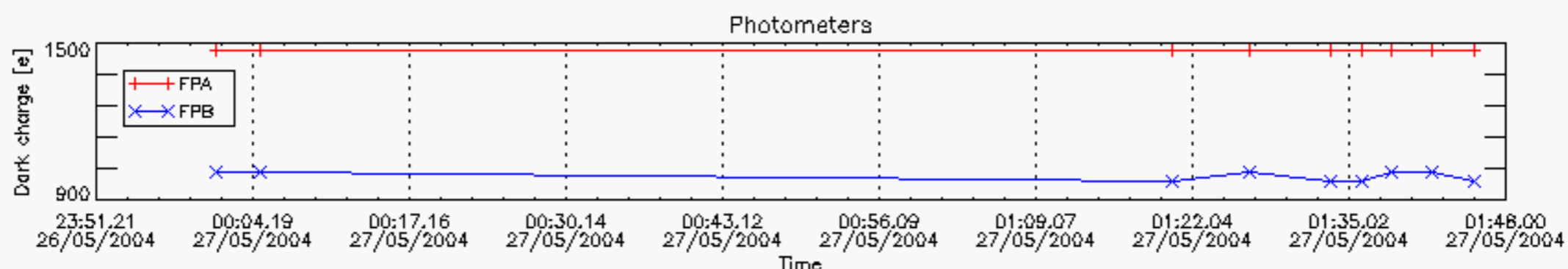
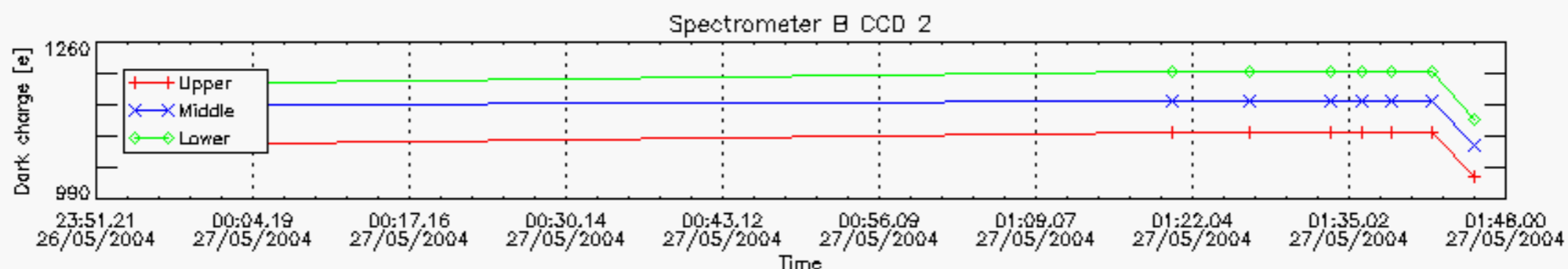
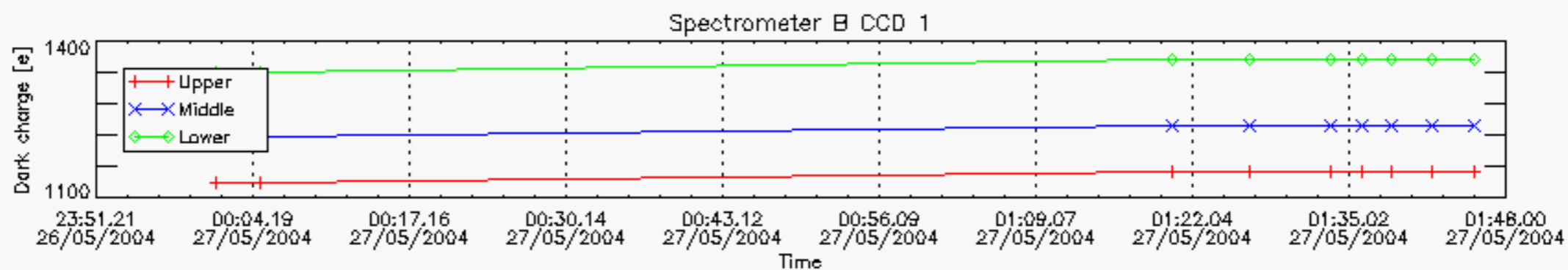
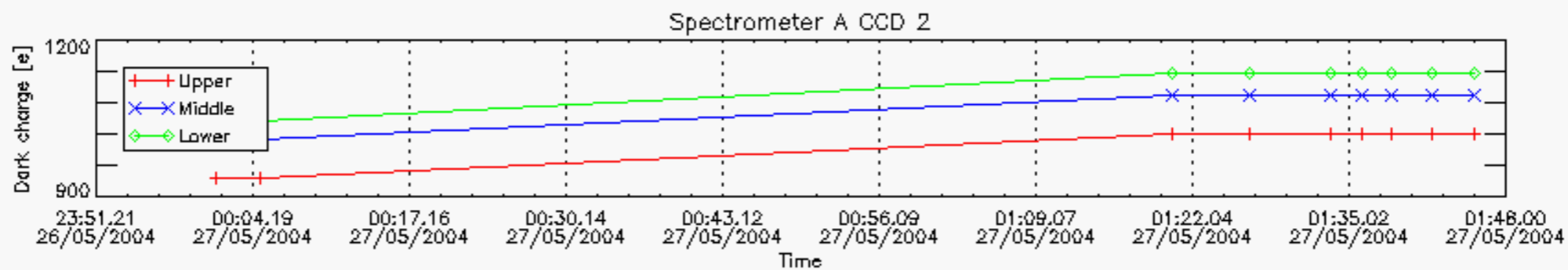
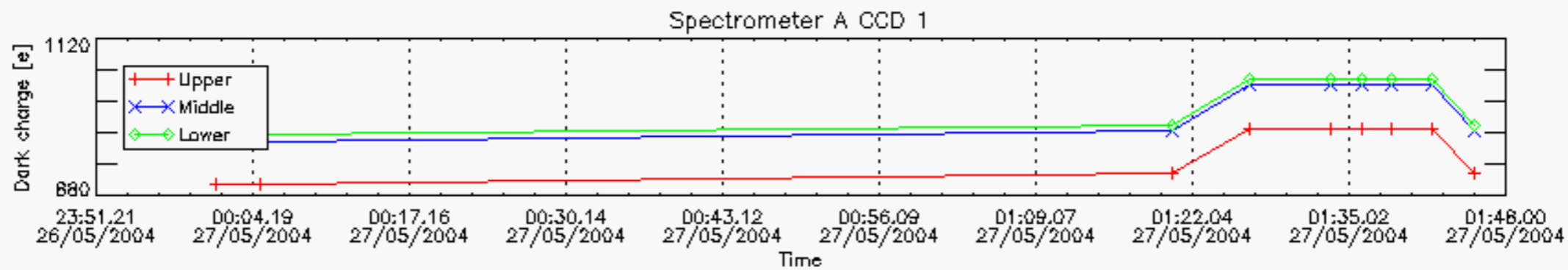


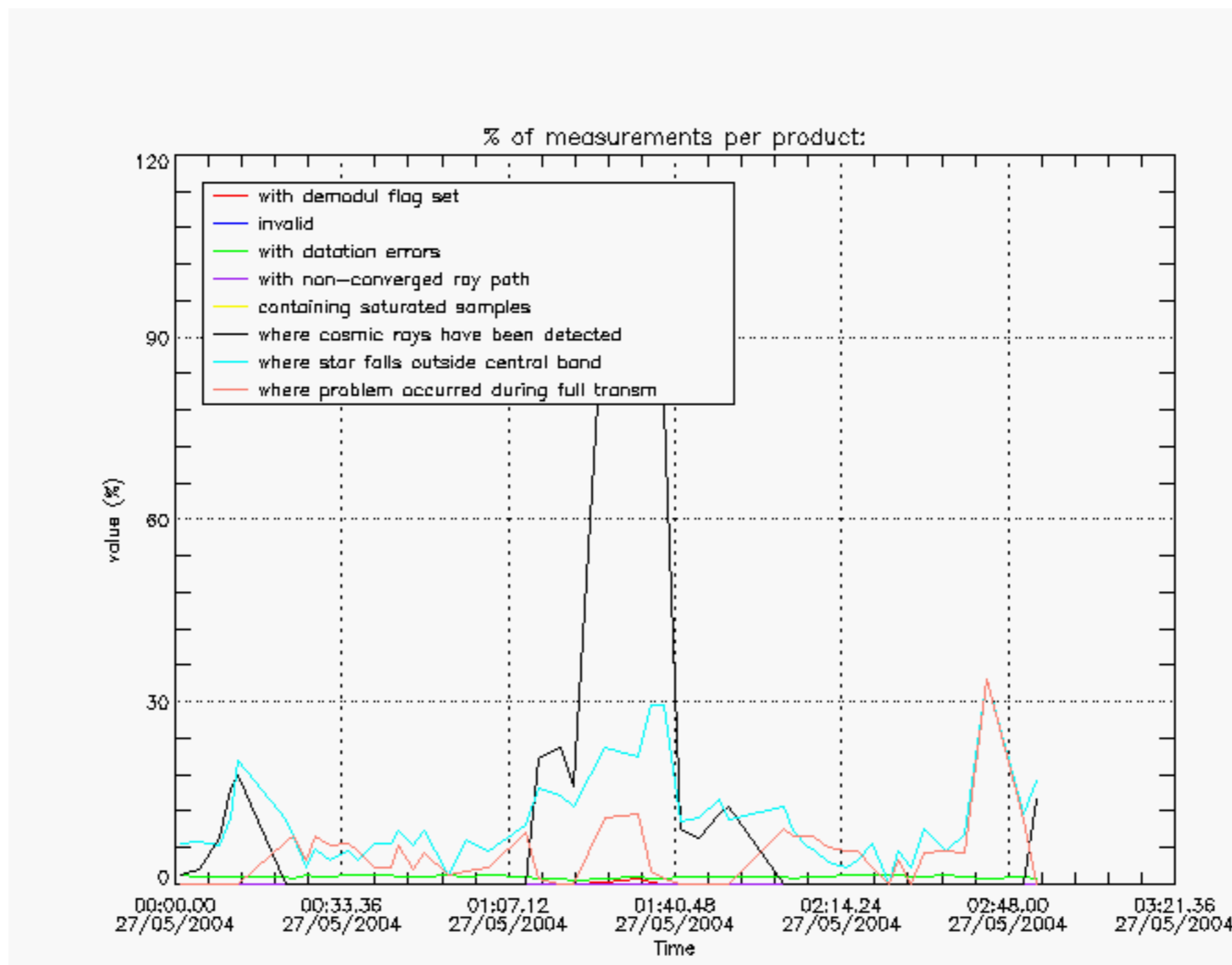
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

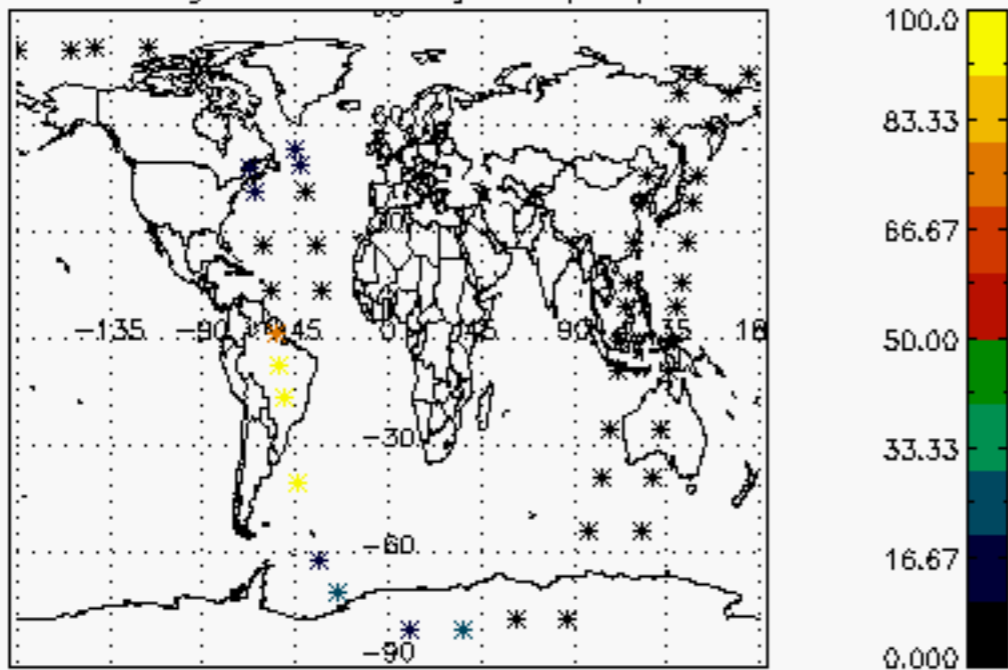
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.8	1447.3	1461.6	1447.0
St. deviation:	5.1728	6.4319	6.6353	7.8526
Maximum:	1610.0	1597.0	1516.0	1498.0
Minimum:	1441.0	1426.0	1441.0	1419.0
Number of data:	11200.	11200.	33850.	33850.



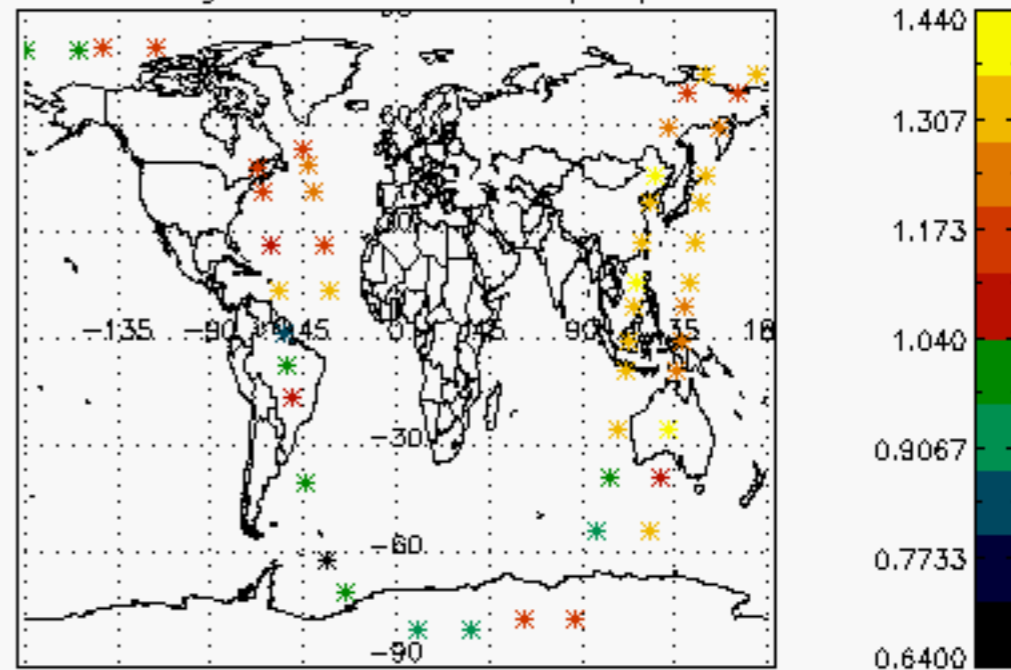




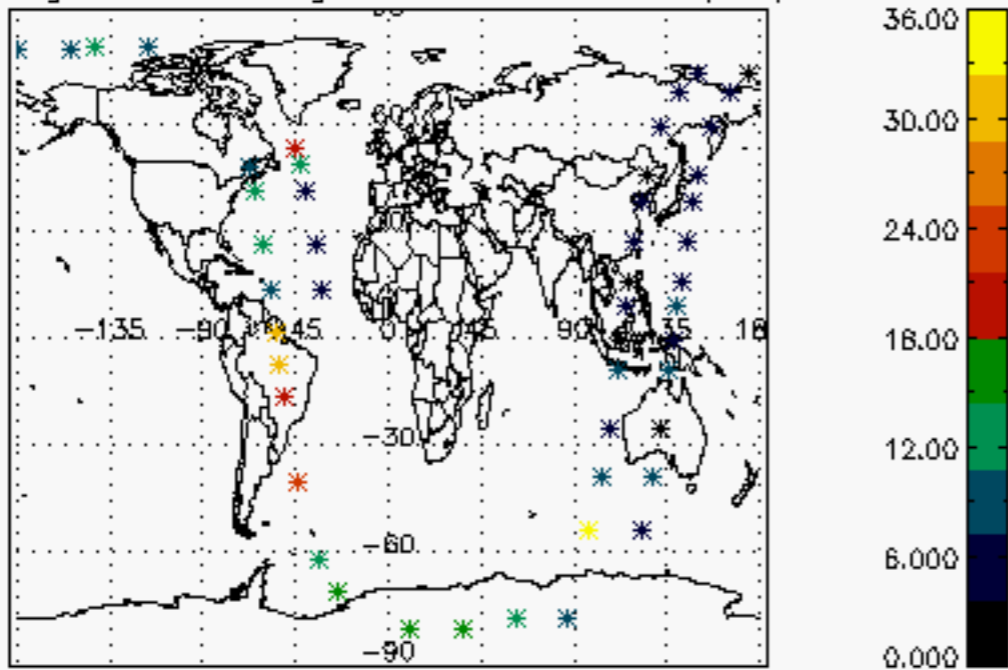
Percentage of cosmic ray hits per profile



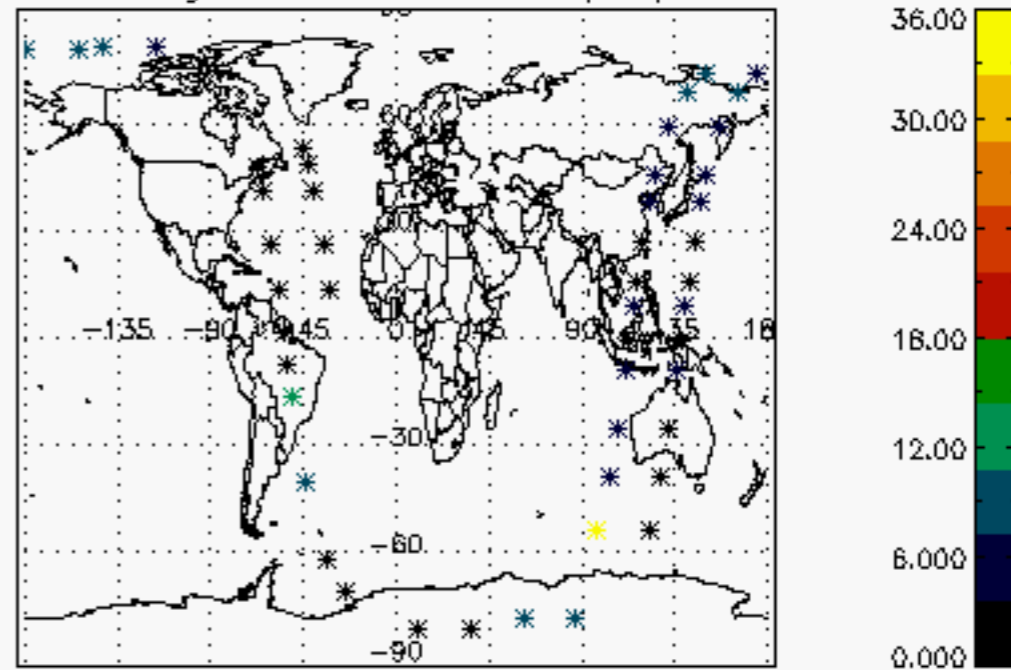
Percentage of datation errors per profile



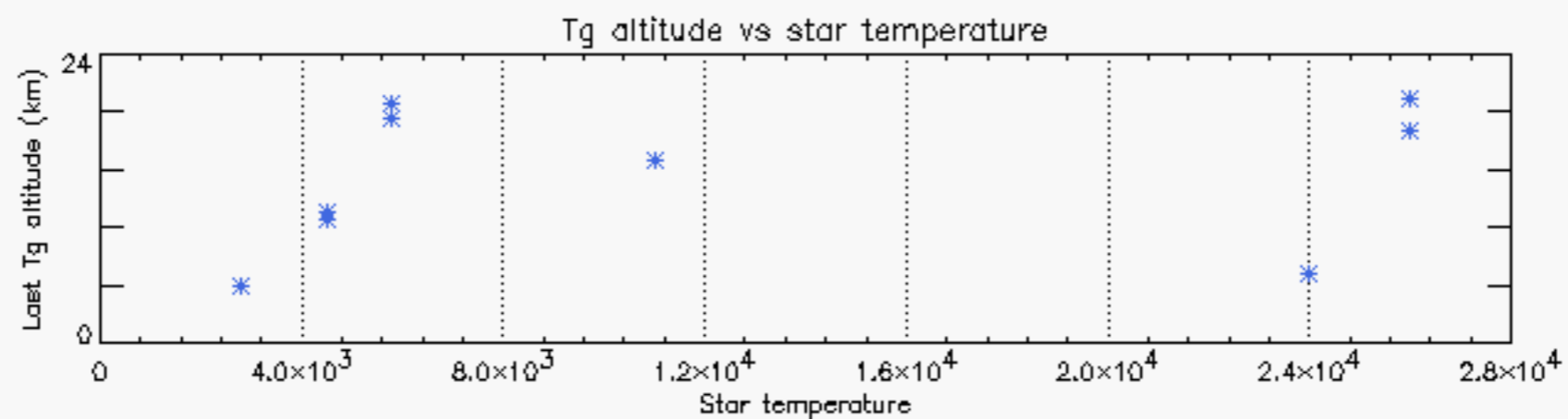
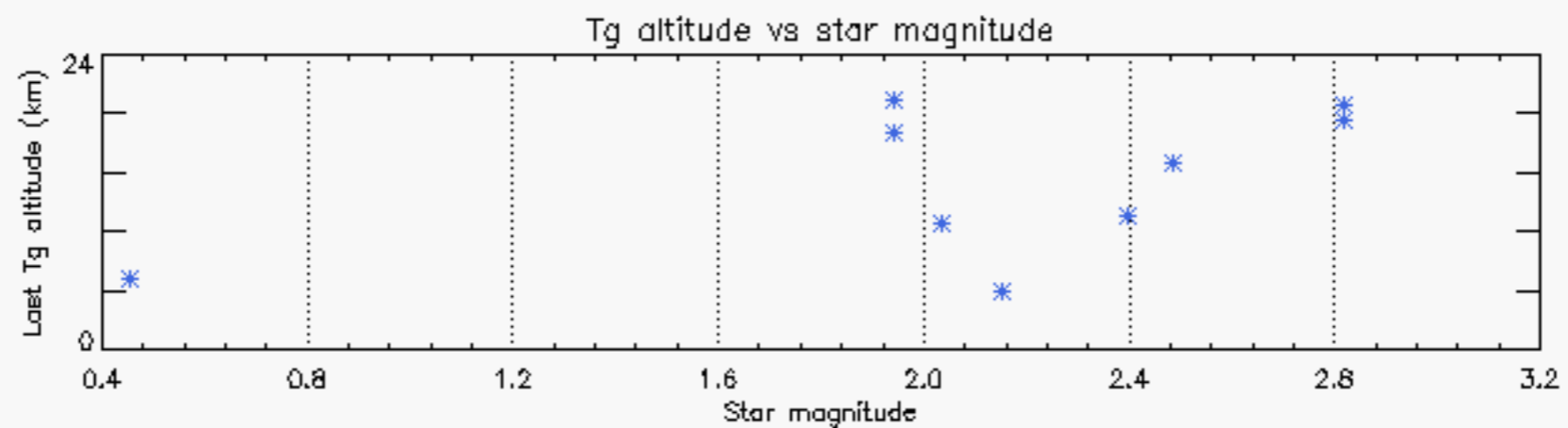
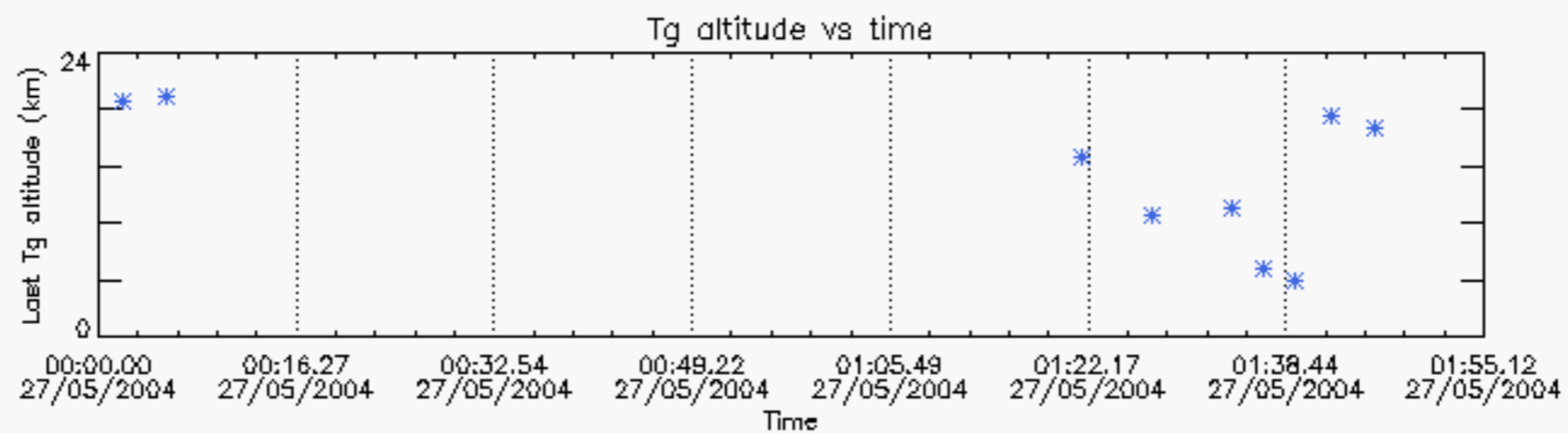
Percentage of star falling outside central band per profile



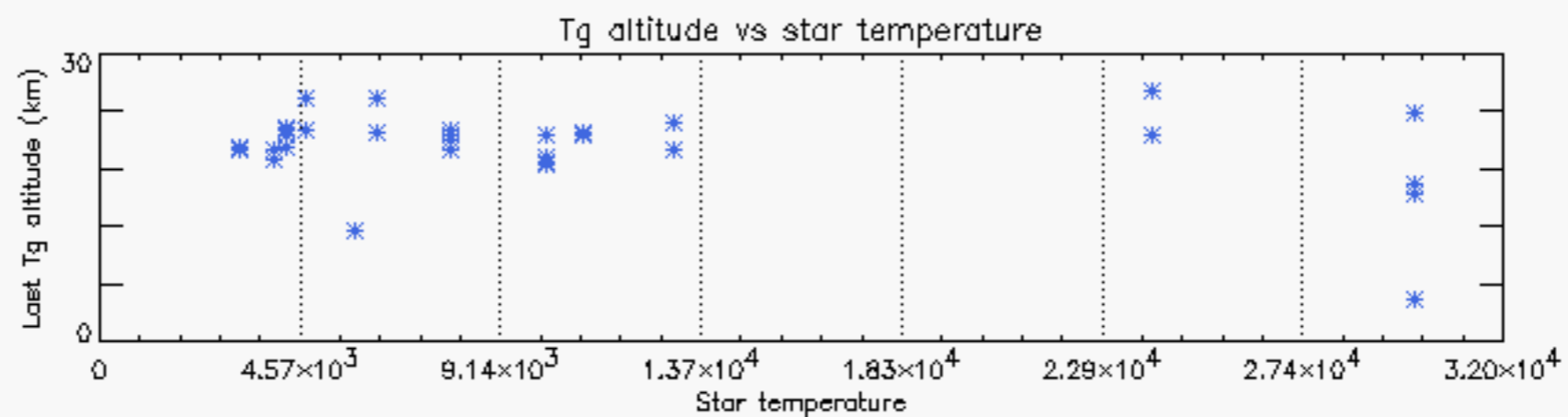
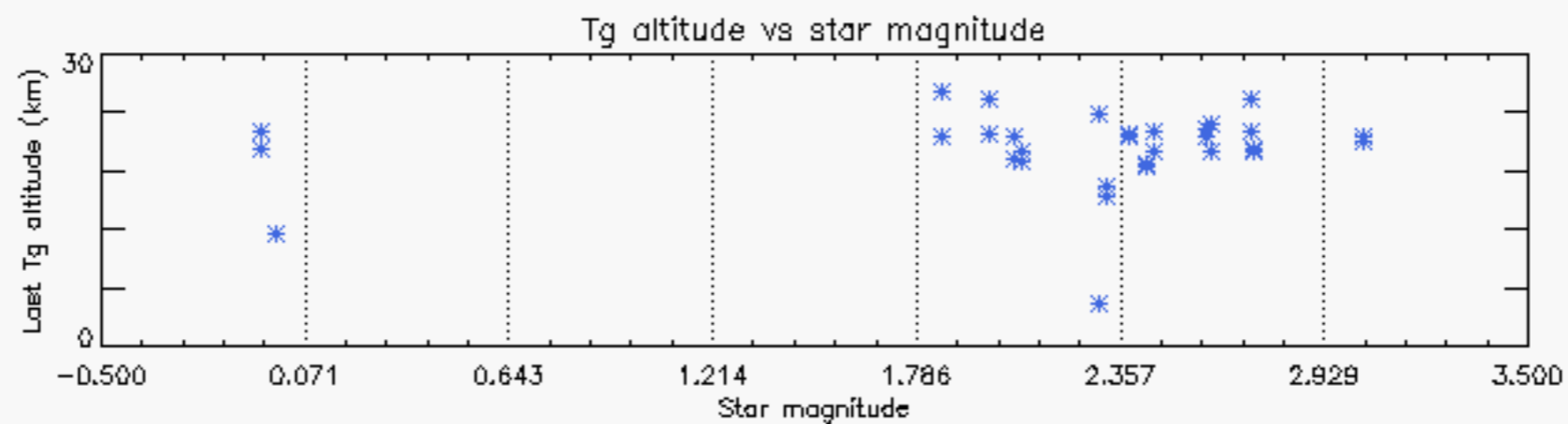
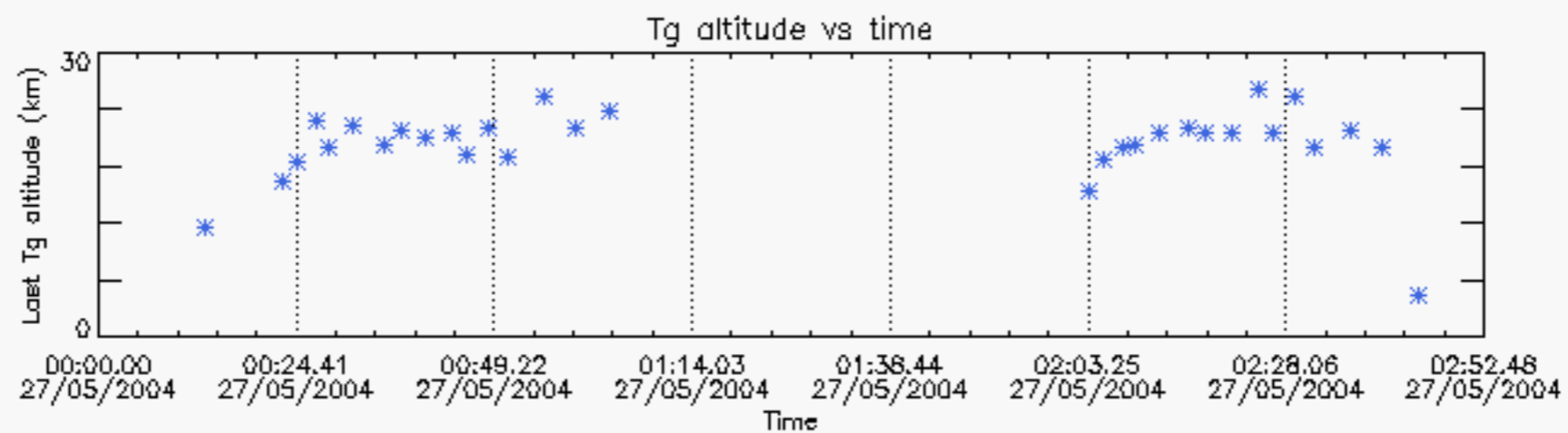
Percentage of saturation errors per profile



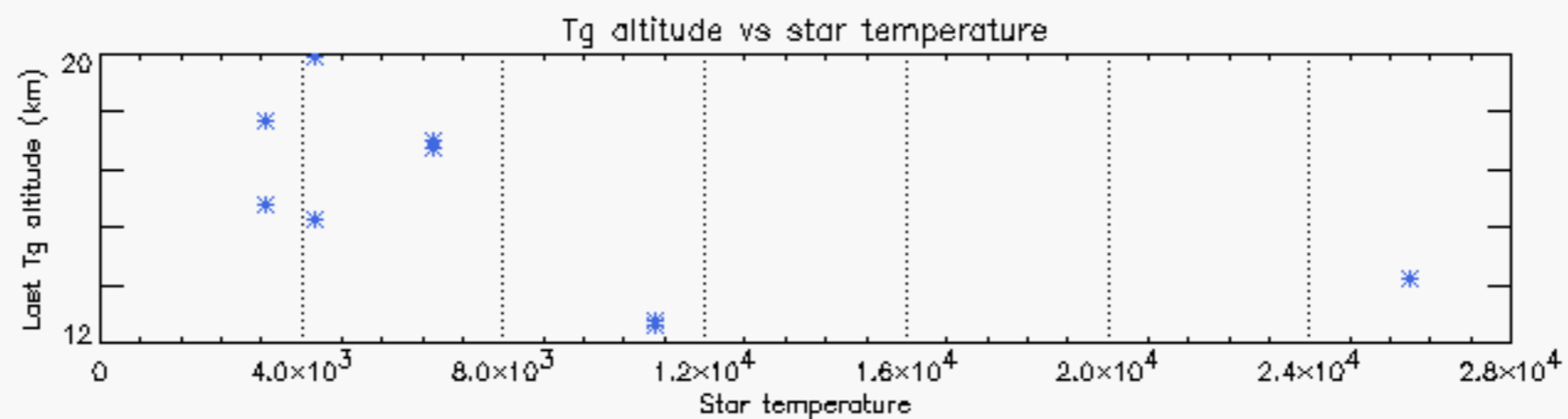
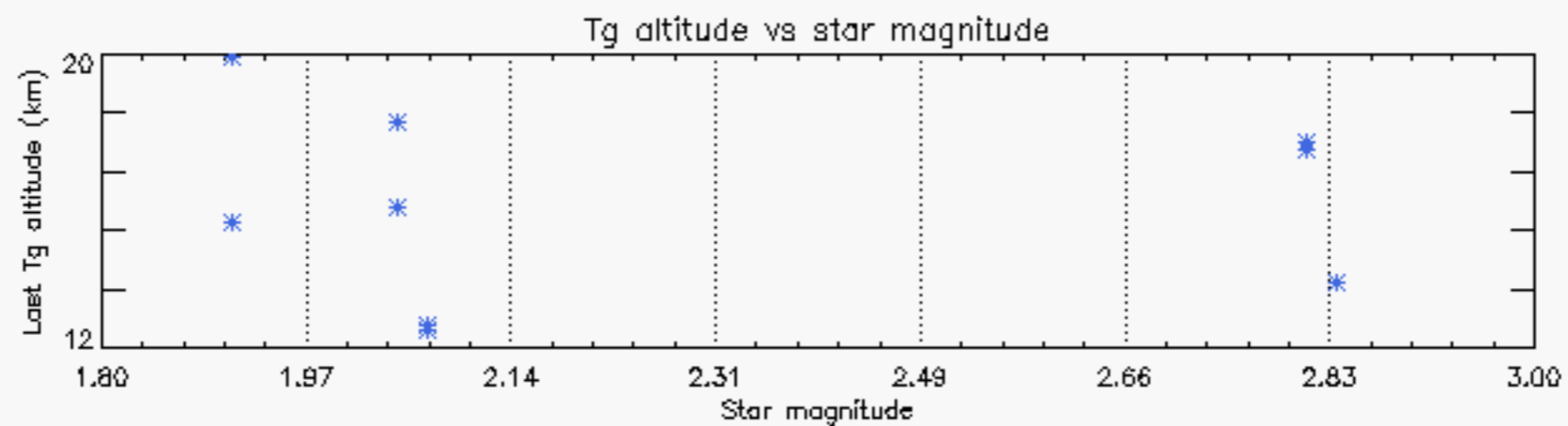
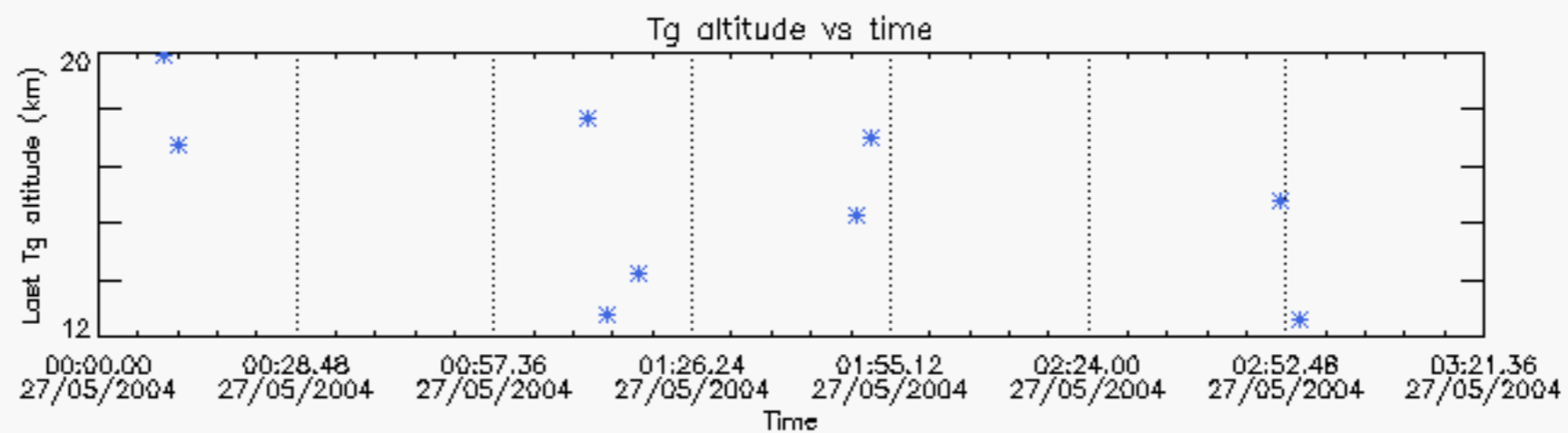
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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1;	-4310.1;	01-MAY-2004	05:45:16;	Bright;	48.5;	104;	27Bet Lib	;	2.61;	13100;occ;	97;	0;	11339
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
14;	-2113.5;	01-MAY-2004	06:21:53;	Bright;	38.5;	76;	27Gam Cas	;	2.30;	30000;occ;	77;	0;	11339
15;	-2036.9;	01-MAY-2004	06:23:09;	Bright;	38.5;	68;	18Alp Cas	;	2.22;	4500;occ;	77;	0;	11339
16;	-1900.0;	01-MAY-2004	06:25:26;	Bright;	61.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	122;	0;	11339
17;	-1782.6;	01-MAY-2004	06:27:24;	Bright;	77.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	155;	0;	11339
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19;	-1261.8;	01-MAY-2004	06:36:04;	Dark	;	90;	54Alp Peg	;	2.49;	11000;occ;	101;	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
30;	698.6;	01-MAY-2004	07:08:45;	Dark	;	38;	20Eps Sgr	;	1.84;	11000;occ;	145;	0;	11340
31;	871.5;	01-MAY-2004	07:11:38;	Dark	;	10;	Bet Cen	;	0.61;	28000;occ;	84;	0;	11340
32;	999.1;	01-MAY-2004	07:13:45;	Dark	;	77;	Eps Cen	;	2.30;	28000;occ;	79;	0;	11340
33;	1106.1;	01-MAY-2004	07:15:32;	Dark	;	64;	Gam Cen	;	2.20;	10600;occ;	83;	0;	11340
34;	1267.9;	01-MAY-2004	07:18:14;	Dark	;	16;	21Alp Sco	;	1.02;	3000;occ;	140;	0;	11340
35;	1401.7;	01-MAY-2004	07:20:28;	Dark	;	80;	7Del Sco	;	2.32;	30000;occ;	124;	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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7;	-3591.2;	02-MAY-2004	00:23:50;	Bright;	46.5;	83;		;	2.38;	11000;occ;	93;	0;	11350	
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9;	-3303.3;	02-MAY-2004	00:28:38;	Bright;	53.0;	174;	52Psi UMa	;	3.00;	4400;occ;	106;	0;	11350	
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11;	-3115.0;	02-MAY-2004	00:31:46;	Bright;	38.5;	82;	48Bet UMa	;	2.37;	10600;occ;	77;	0;	11350	
12;	-3037.4;	02-MAY-2004	00:33:04;	Bright;	39.0;	36;	50Alp UMa	;	1.80;	6300;occ;	78;	0;	11350	
13;	-2822.5;	02-MAY-2004	00:36:39;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	11350	
14;	-2592.5;	02-MAY-2004	00:40:29;	Bright;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	11350	
15;	-2214.5;	02-MAY-2004	00:46:47;	Bright;	41.5;	89;	5Alp Cep	;	2.45;	8000;occ;	83;	0;	11350	
16;	-2116.1;	02-MAY-2004	00:48:25;	Bright;	46.0;	110;	37Del Cas	;	2.68;	8900;occ;	92;	0;	11350	
17;	-2035.2;	02-MAY-2004	00:49:46;	Bright;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	11350	
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21;	-1256.9;	02-MAY-2004	01:02:44;	Dark	;	47.0;	90;	54Alp Peg	;	2.49;	11000;occ;	94;	0;	11350
22;	-988.7;	02-MAY-2004	01:07:13;	Dark	;	68.5;	61;	8Eps Peg	;	2.10;	3900;occ;	137;	0;	11350
23;	-791.9;	02-MAY-2004	01:10:29;	Dark	;	43.5;	52;	16Bet Cet	;	2.04;	4500;occ;	87;	0;	11350
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25;	-485.1;	02-MAY-2004	01:15:36;	Dark	;	44.0;	18;	24Alp PsA	;	1.17;	9700;occ;	88;	0;	11350
26;	-354.9;	02-MAY-2004	01:17:46;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	11350
27;	-138.3;	02-MAY-2004	01:21:23;	Dark	;	45.0;	31;	Alp Gru	;	1.73;	15200;occ;	90;	0;	11350
28;	191.8;	02-MAY-2004	01:26:53;	Dark	;	43.0;	45;	Alp Pav	;	1.94;	26000;occ;	86;	0;	11351
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10;-3201.8; 02-MAY-2004 02:10:55; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;11351
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 5;-3807.8; 02-MAY-2004 03:41:25; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;11352
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18;-1787.3; 02-MAY-2004 04:15:06; Bright; 82.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 164; 0;11352
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20;-1256.6; 02-MAY-2004 04:23:57; Dark ; 48.0; 90; 54Alp Peg ; 2.49; 11000;occ; 96; 0;11352
21; -986.8; 02-MAY-2004 04:28:26; Dark ; 71.5; 61; 8Eps Peg ; 2.10; 3900;occ; 143; 0;11352
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12	-3291.9	16-MAY-2004	18:15:13	Bright	38.0	39	85Eta UMa	1.85	24000	occ	76	0	11561
13	-3194.9	16-MAY-2004	18:16:50	Bright	38.0	55	79Zet UMa	2.06	10200	occ	76	0	11561
14	-2971.1	16-MAY-2004	18:20:34	Bright	37.5	36	50Alp UMa	1.80	6300	occ	75	0	11561
15	-2856.0	16-MAY-2004	18:22:29	Bright	39.5	60	7Bet UMi	2.08	3950	occ	79	0	11561
16	-2591.5	16-MAY-2004	18:26:53	Bright	38.0	49	1Alp UMi	1.99	6300	occ	76	0	11561
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21	-1519.7	16-MAY-2004	18:44:45	Dark	48.0	58	21Alp And	2.07	11000	occ	96	0	11561
22	-1268.5	16-MAY-2004	18:48:56	Dark	45.0	140	88Gam Peg	2.83	26000	occ	90	0	11561
23	-1166.6	16-MAY-2004	18:50:38	Dark	57.5	90	54Alp Peg	2.49	11000	occ	115	0	11561
24	-744.1	16-MAY-2004	18:57:41	Dark	46.0	52	16Bet Cet	2.04	4500	occ	92	0	11561
25	-456.0	16-MAY-2004	19:02:29	Dark	59.5	0		0.00	0	occ	119	0	11561
26	-344.1	16-MAY-2004	19:04:21	Dark	57.5	18	24Alp PsA	1.17	9700	occ	115	0	11561
27	-85.8	16-MAY-2004	19:08:39	Dark	57.5	63	Bet Gru	2.15	2800	occ	115	0	11561
28	4.7	16-MAY-2004	19:10:10	Dark	44.5	31	Alp Gru	1.73	15200	occ	89	0	11562
29	210.3	16-MAY-2004	19:13:35	Dark	38.5	135	Bet Hyi	2.82	5800	occ	77	0	11562
30	337.4	16-MAY-2004	19:15:42	Dark	43.5	45	Alp Pav	1.94	26000	occ	87	0	11562
31	651.3	16-MAY-2004	19:20:56	Dark	49.0	43	Alp TrA	1.91	4250	occ	98	0	11562
32	733.5	16-MAY-2004	19:22:18	Dark	37.0	145	Gam TrA	2.87	10600	occ	74	0	11562
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2	-4583.3	16-MAY-2004	01:07:42	Bright	49.5	80	7Del Sco	2.32	30000	occ	99	0	11551
3	-4464.9	16-MAY-2004	01:09:40	Bright	59.5	86	35Eta Oph	2.43	10200	occ	119	0	11551
4	-4311.0	16-MAY-2004	01:12:14	Bright	42.5	104	27Bet Lib	2.61	13100	occ	85	0	11551
5	-4181.8	16-MAY-2004	01:14:23	Bright	51.0	120	1Del Oph	2.73	3200	occ	102	0	11551
6	-3991.6	16-MAY-2004	01:17:34	Bright	45.0	102	24Alp Ser	2.60	4250	occ	90	0	11551
7	-3815.5	16-MAY-2004	01:20:30	Bright	37.0	111	8Eta Boo	2.68	6000	occ	74	0	11551
8	-3656.2	16-MAY-2004	01:23:09	Bright	41.5	83		2.38	11000	occ	83	0	11551
9	-3468.6	16-MAY-2004	01:26:17	Bright	40.0	180	27Gam Boo	3.04	8000	occ	80	0	11551
10	-3295.1	16-MAY-2004	01:29:10	Bright	40.5	39	85Eta UMa	1.85	24000	occ	81	0	11551
11	-3196.1	16-MAY-2004	01:30:49	Bright	35.0	55	79Zet UMa	2.06	10200	occ	70	0	11551
12	-2975.1	16-MAY-2004	01:34:30	Bright	40.0	36	50Alp UMa	1.80	6300	occ	80	0	11551
13	-2855.1	16-MAY-2004	01:36:30	Bright	37.0	60	7Bet UMi	2.08	3950	occ	74	0	11551
14	-2592.5	16-MAY-2004	01:40:53	Bright	37.5	49	1Alp UMi	1.99	6300	occ	75	0	11551
15	-2291.2	16-MAY-2004	01:45:54	Bright	46.5	89	5Alp Cep	2.45	8000	occ	93	0	11551
16	-2099.7	16-MAY-2004	01:49:05	Bright	53.0	76	27Gam Cas	2.30	30000	occ	106	0	11551
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21	-1172.1	16-MAY-2004	02:04:33	Dark	57.5	90	54Alp Peg	2.49	11000	occ	115	0	11551
22	-750.4	16-MAY-2004	02:11:35	Dark	46.0	52	16Bet Cet	2.04	4500	occ	92	0	11551
23	-458.1	16-MAY-2004	02:16:27	Dark	59.5	0		0.00	0	occ	119	0	11551
24	-353.8	16-MAY-2004	02:18:11	Dark	56.0	18	24Alp PsA	1.17	9700	occ	112	0	11551
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29	731.6	16-MAY-2004	02:36:17	Dark	39.0	145	Gam TrA	2.87	10600	occ	78	0	11552
30	879.7	16-MAY-2004	02:38:45	Dark	52.0	4	Alp1Cen	-0.01	5800	occ	104	0	11552
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32	1184.6	16-MAY-2004	02:43:50	Dark	40.5	81	Eta Cen	2.36	28000	occ	81	0	11552
33	1350.7	16-MAY-2004	02:46:36	Dark	59.0	16	21Alp Sco	1.02	3000	occ	118	0	11552
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2	-4464.8	16-MAY-2004	02:50:16	Bright	62.5	86	35Eta Oph	2.43	10200	occ	125	0	11552
3	-4310.4	16-MAY-2004	02:52:51	Bright	41.5	104	27Bet Lib	2.61	13100	occ	83	0	11552
4	-4181.8	16-MAY-2004	02:54:59	Bright	51.5	120	1Del Oph	2.73	3200	occ	103	0	11552
5	-3991.9	16-MAY-2004	02:58:09	Bright	45.0	102	24Alp Ser	2.60	4250	occ	90	0	11552
6	-3817.4	16-MAY-2004	03:01:04	Bright	39.0	111	8Eta Boo	2.68	6000	occ	78	0	11552
7	-3657.1	16-MAY-2004	03:03:44	Bright	42.0	83		2.38	11000	occ	84	0	11552
8	-3470.7	16-MAY-2004	03:06:50	Bright	41.0	180	27Gam Boo	3.04	8000	occ	82	0	11552
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32; 337.8;	16-MAY-2004	22:36:54;	Dark	; 43.0;	45;	Alp Pav	; 1.94;	26000;occ;	86;	0;11564
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3;	-3997.0;	17-MAY-2004	10:49:27;	Bright;	44.0;	102;	24Alp Ser	;	2.60;	4250;occ;	88;	0;	11571	
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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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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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2;	-4651.5;	24-MAY-2004	17:00:51;	Dark	;	59.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	118;	0;	11675
3;	-4558.3;	24-MAY-2004	17:02:24;	Bright	;	43.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	87;	0;	11675
4;	-4456.0;	24-MAY-2004	17:04:06;	Bright	;	51.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	103;	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
12;	-3183.1;	24-MAY-2004	17:25:19;	Bright	;	38.5;	55;	79Zet	UMa	;	2.06;	10200;	occ;	77;	0;	11675
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
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22;	-1229.7;	24-MAY-2004	17:57:53;	Dark	;	47.0;	140;	88Gam	Peg	;	2.83;	26000;	occ;	94;	0;	11675
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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
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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
18;	-2590.8;	24-MAY-2004	19:15:48;	Bright	;	38.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	76;	0;	11676
19;	-2352.5;	24-MAY-2004	19:19:46;	Bright	;	47.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	95;	0;	11676
20;	-2101.2;	24-MAY-2004	19:23:57;	Bright	;	35.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	71;	0;	11676
21;	-2029.7;	24-MAY-2004	19:25:09;	Bright	;	40.5;	68;	18Alp	Cas	;	2.22;	4500;	occ;	81;	0;	11676
22;	-1653.5;	24-MAY-2004	19:31:25;	Bright	;	40.5;	53;	43Bet	And	;	2.05;	3300;	occ;	81;	0;	11676
23;	-1500.2;	24-MAY-2004	19:33:58;	Dark	;	51.0;	58;	21Alp	And	;	2.07;	11000;	occ;	102;	0;	11676
24;	-1228.6;	24-MAY-2004	19:38:30;	Dark	;	48.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	97;	0;	11676
25;	-1088.1;	24-MAY-2004	19:40:50;	Dark	;	68.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	137;	0;	11676
26;	-697.8;	24-MAY-2004	19:47:20;	Dark	;	49.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	99;	0;	11676
27;	-423.4;	24-MAY-2004	19:51:55;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	11676
28;	-127.5;	24-MAY-2004	19:56:51;	Dark	;	43.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	87;	0;	11676
29;	-3.8;	24-MAY-2004	19:58:55;	Dark	;	52.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	105;	0;	11676
30;	221.4;	24-MAY-2004	20:02:40;	Dark	;	39.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	79;	0;	11677
31;	418.4;	24-MAY-2004	20:05:57;	Dark	;	44.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	89;	0;	11677
32;	682.5;	24-MAY-2004	20:10:21;	Dark	;	40.5;	43;	Alp	TrA	;	1.91;	4250;	occ;	81;	0;	11677
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