

GOMOS Daily Report 14-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	18MAY2004 14:49:26
Data source version	GOMOS/4.02
Start time of products	14-MAY-2004 (14MAY2004 00:00:00)
Stop time of products	15-MAY-2004 (15MAY2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	2

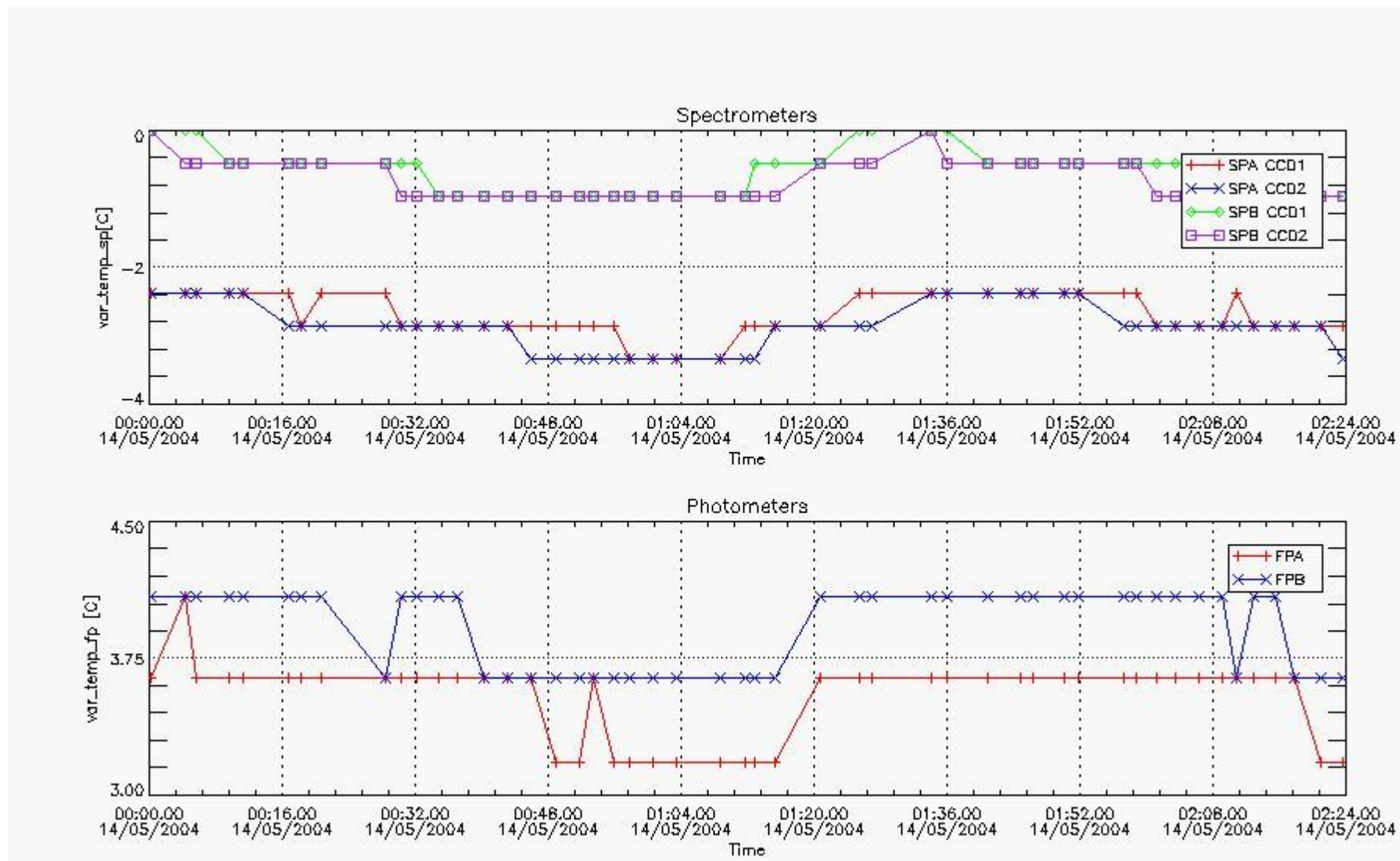
2. Summary of products arrived in PCF

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_1PNPDE20040514_000016_000000482026_00445_11521_0026.N1	14-MAY-2004 00:00:16	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	11521	No
GOM_TRA_1PNPDE20040514_000414_000000502026_00445_11521_0027.N1	14-MAY-2004 00:04:14	Dark	50.000	63	Bet Gru	2.1500	2800.0	100	11521	No
GOM_TRA_1PNPDE20040514_000540_000000452026_00445_11521_0028.N1	14-MAY-2004 00:05:40	Dark	44.500	31	Alp Gru	1.7340	15200.	89	11521	No
GOM_TRA_1PNPDE20040514_000935_000000392026_00446_11522_0029.N1	14-MAY-2004 00:09:35	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	11522	No
GOM_TRA_1PNPDE20040514_001114_000000452026_00446_11522_0030.N1	14-MAY-2004 00:11:14	Dark	44.500	45	Alp Pav	1.9400	26000.	89	11522	No
GOM_TRA_1PNPDE20040514_001645_000000512026_00446_11522_0031.N1	14-MAY-2004 00:16:45	Dark	51.000	43	Alp TrA	1.9100	4250.0	102	11522	No
GOM_TRA_1PNPDE20040514_001811_000000402026_00446_11522_0032.N1	14-MAY-2004 00:18:11	Twilight	40.000	145	Gam TrA	2.8720	10600.	80	11522	No
GOM_TRA_1PNPDE20040514_002041_000000522026_00446_11522_0033.N1	14-MAY-2004 00:20:41	Twilight	52.000	4	Alp1Cen	-0.010000	5800.0	104	11522	No
GOM_TRA_1PNPDE20040514_002828_000000602026_00446_11522_0000.N1	14-MAY-2004 00:28:28	Bright	60.000	16	21Alp Sco	1.0200	3000.0	120	11522	Yes
GOM_TRA_1PNPDE20040514_003014_000000542026_00446_11522_0001.N1	14-MAY-2004 00:30:14	Bright	53.500	80	7Del Sco	2.3160	30000.	107	11522	No
GOM_TRA_1PNPDE20040514_003215_000000652026_00446_11522_0002.N1	14-MAY-2004 00:32:15	Bright	65.000	86	35Eta Oph	2.4300	10200.	130	11522	No
GOM_TRA_1PNPDE20040514_003451_000000422026_00446_11522_0003.N1	14-MAY-2004 00:34:51	Bright	42.000	104	27Bet Lib	2.6140	13100.	84	11522	No
GOM_TRA_1PNPDE20040514_003707_000000532026_00446_11522_0004.N1	14-MAY-2004 00:37:07	Bright	53.000	120	1Del Oph	2.7340	3200.0	106	11522	No
GOM_TRA_1PNPDE20040514_004019_000000472026_00446_11522_0005.N1	14-MAY-2004 00:40:19	Bright	46.500	102	24Alp Ser	2.6000	4250.0	93	11522	No
GOM_TRA_1PNPDE20040514_004304_000000402026_00446_11522_0006.N1	14-MAY-2004 00:43:04	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	11522	No
GOM_TRA_1PNPDE20040514_004552_000000402026_00446_11522_0007.N1	14-MAY-2004 00:45:52	Bright	40.000	83		2.3780	11000.	80	11522	No
GOM_TRA_1PNPDE20040514_004901_000000382026_00446_11522_0008.N1	14-MAY-2004 00:49:01	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11522	No
GOM_TRA_1PNPDE20040514_005150_000000382026_00446_11522_0009.N1	14-MAY-2004 00:51:50	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	11522	No
GOM_TRA_1PNPDE20040514_005325_000000372026_00446_11522_0010.N1	14-MAY-2004 00:53:25	Bright	36.500	55	79Zet UMa	2.0600	10200.	73	11522	No
GOM_TRA_1PNPDE20040514_005550_000000392026_00446_11522_0011.N1	14-MAY-2004 00:55:50	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	11522	No
GOM_TRA_1PNPDE20040514_005749_000000412026_00446_11522_0012.N1	14-MAY-2004 00:57:49	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	11522	No
GOM_TRA_1PNPDE20040514_010040_000000562026_00446_11522_0013.N1	14-MAY-2004 01:00:40	Bright	55.500	69	33Gam Dra	2.2310	3800.0	111	11522	No
GOM_TRA_1PNPDE20040514_010330_000000382026_00446_11522_0014.N1	14-MAY-2004 01:03:30	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	11522	No
GOM_TRA_1PNPDE20040514_010845_000000452026_00446_11522_0015.N1	14-MAY-2004 01:08:45	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	11522	No
GOM_TRA_1PNPDE20040514_011141_000000532026_00446_11522_0016.N1	14-MAY-2004 01:11:41	Bright	53.000	76	27Gam Cas	2.3000	30000.	106	11522	No
GOM_TRA_1PNPDE20040514_011256_000000392026_00446_11522_0017.N1	14-MAY-2004 01:12:56	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	11522	No
GOM_TRA_1PNPDE20040514_011518_000001042026_00446_11522_0018.N1	14-MAY-2004 01:15:18	Bright	104.00	66	37Gam Cyg	2.2080	5900.0	208	11522	No
GOM_TRA_1PNPDE20040514_012050_000001382026_00446_11522_0019.N1	14-MAY-2004 01:20:50	Twilight	138.00	92	53Eps Cyg	2.5000	4500.0	276	11522	No
GOM_TRA_1PNPDE20040514_012522_000000442026_00446_11522_0020.N1	14-MAY-2004 01:25:22	Twilight	43.500	140	88Gam Peg	2.8340	26000.	87	11522	No
GOM_TRA_1PNPDE20040514_012655_000000572026_00446_11522_0021.N1	14-MAY-2004 01:26:55	Twilight	56.500	90	54Alp Peg	2.4870	11000.	113	11522	No
GOM_TRA_1PNPDE20040514_013405_000000472026_00446_11522_0022.N1	14-MAY-2004 01:34:05	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	11522	No
GOM_TRA_1PNPDE20040514_013556_000000792026_00446_11522_0023.N1	14-MAY-2004 01:35:56	Dark	78.500	162	34Alp Aqr	2.9440	5350.0	157	11522	No
GOM_TRA_1PNPDE20040514_014054_000000462026_00446_11522_0024.N1	14-MAY-2004 01:40:54	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	11522	No
GOM_TRA_1PNPDE20040514_014450_000000492026_00446_11522_0025.N1	14-MAY-2004 01:44:50	Dark	48.500	63	Bet Gru	2.1500	2800.0	97	11522	No
GOM_TRA_1PNPDE20040514_014617_000000472026_00446_11522_0026.N1	14-MAY-2004 01:46:17	Dark	46.500	31	Alp Gru	1.7340	15200.	93	11522	No
GOM_TRA_1PNPDE20040514_015011_000000412026_00447_11523_0027.N1	14-MAY-2004 01:50:11	Dark	41.000	135	Bet Hyi	2.8200	5800.0	82	11523	No
GOM_TRA_1PNPDE20040514_015151_000000442026_00447_11523_0028.N1	14-MAY-2004 01:51:51	Dark	44.000	45	Alp Pav	1.9400	26000.	88	11523	No
GOM_TRA_1PNPDE20040514_015721_000000452026_00447_11523_0029.N1	14-MAY-2004 01:57:21	Dark	44.500	43	Alp TrA	1.9100	4250.0	89	11523	No
GOM_TRA_1PNPDE20040514_015848_000000402026_00447_11523_0030.N1	14-MAY-2004 01:58:48	Twilight	39.500	145	Gam TrA	2.8720	10600.	79	11523	No
GOM_TRA_1PNPDE20040514_020117_000000492026_00447_11523_0031.N1	14-MAY-2004 02:01:17	Twilight	49.000	4	Alp1Cen	-0.010000	5800.0	98	11523	No
GOM_TRA_1PNPDE20040514_020329_000000572026_00447_11523_0032.N1	14-MAY-2004 02:03:29	Bright	56.500	25	35Lam Sco	1.6200	28000.	113	11523	No
GOM_TRA_1PNPDE20040514_020619_000000432026_00447_11523_0033.N1	14-MAY-2004 02:06:19	Bright	42.500	81	Eta Cen	2.3560	28000.	85	11523	No
GOM_TRA_1PNPDE20040514_020904_000000592026_00447_11523_0034.N1	14-MAY-2004 02:09:04	Bright	59.000	16	21Alp Sco	1.0200	3000.0	118	11523	No
GOM_TRA_1PNPDE20040514_021050_000000542026_00447_11523_0000.N1	14-MAY-2004 02:10:50	Bright	54.000	80	7Del Sco	2.3160	30000.	108	11523	Yes
GOM_TRA_1PNPDE20040514_021252_000000652026_00447_11523_0001.N1	14-MAY-2004 02:12:52	Bright	64.500	86	35Eta Oph	2.4300	10200.	129	11523	No
GOM_TRA_1PNPDE20040514_021527_000000422026_00447_11523_0002.N1	14-MAY-2004 02:15:27	Bright	41.500	104	27Bet Lib	2.6140	13100.	83	11523	No
GOM_TRA_1PNPDE20040514_021743_000000542026_00447_11523_0003.N1	14-MAY-2004 02:17:43	Bright	53.500	120	1Del Oph	2.7340	3200.0	107	11523	No
GOM_TRA_1PNPDE20040514_022055_000000472026_00447_11523_0004.N1	14-MAY-2004 02:20:55	Bright	46.500	102	24Alp Ser	2.6000	4250.0	93	11523	No
GOM_TRA_1PNPDE20040514_022342_000000382026_00447_11523_0005.N1	14-MAY-2004 02:23:42	Bright	38.000	111	8Eta Boo	2.6800	6000.0	76	11523	No

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



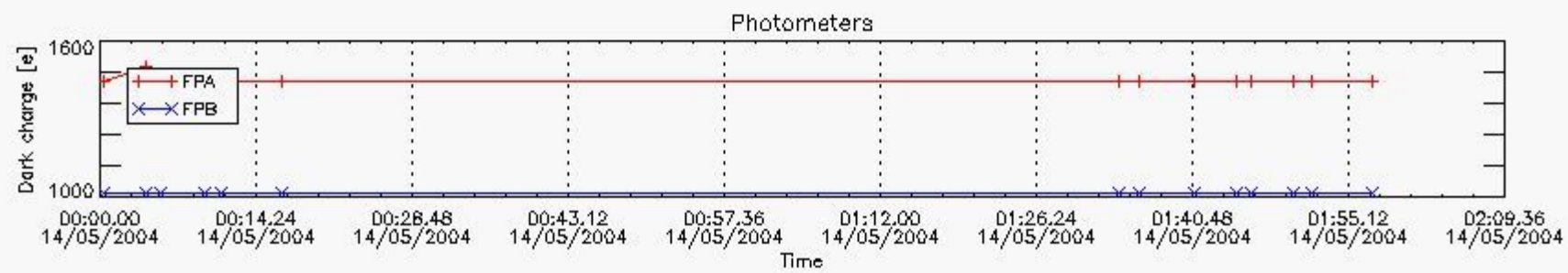
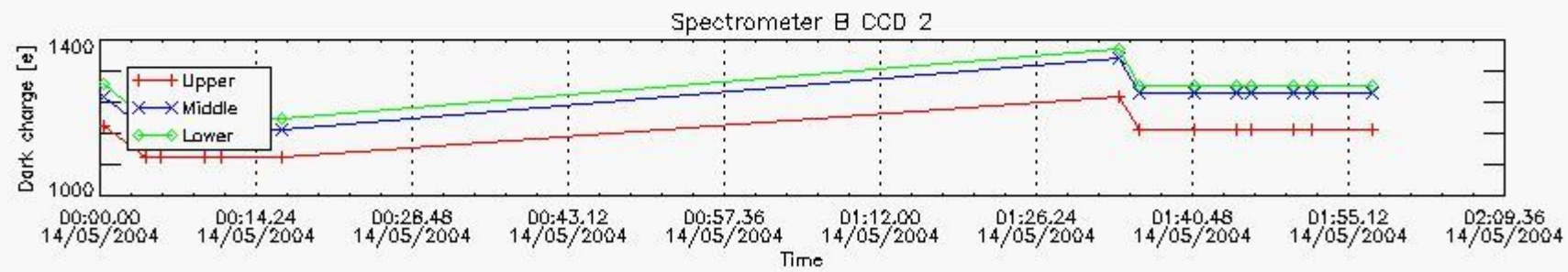
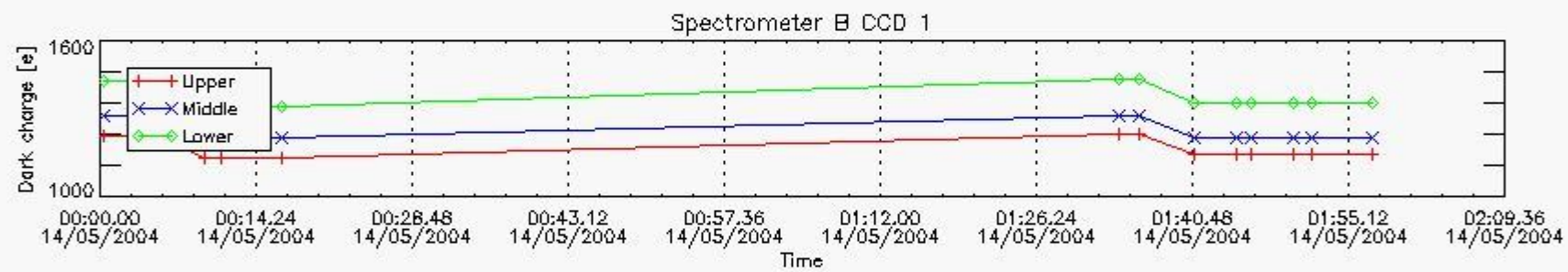
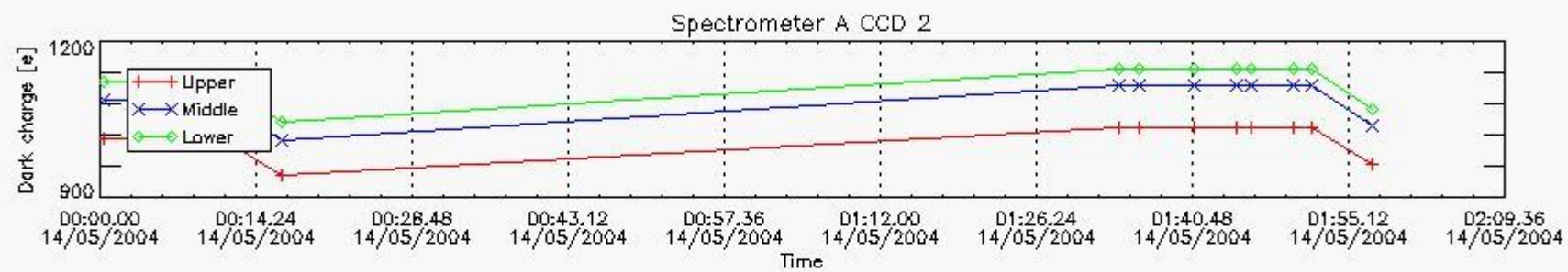
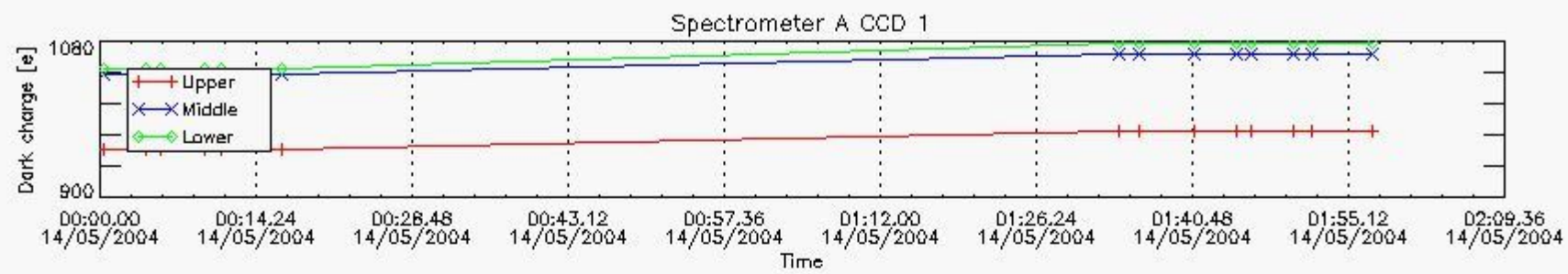
4. Overview of dark signal processing per product

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



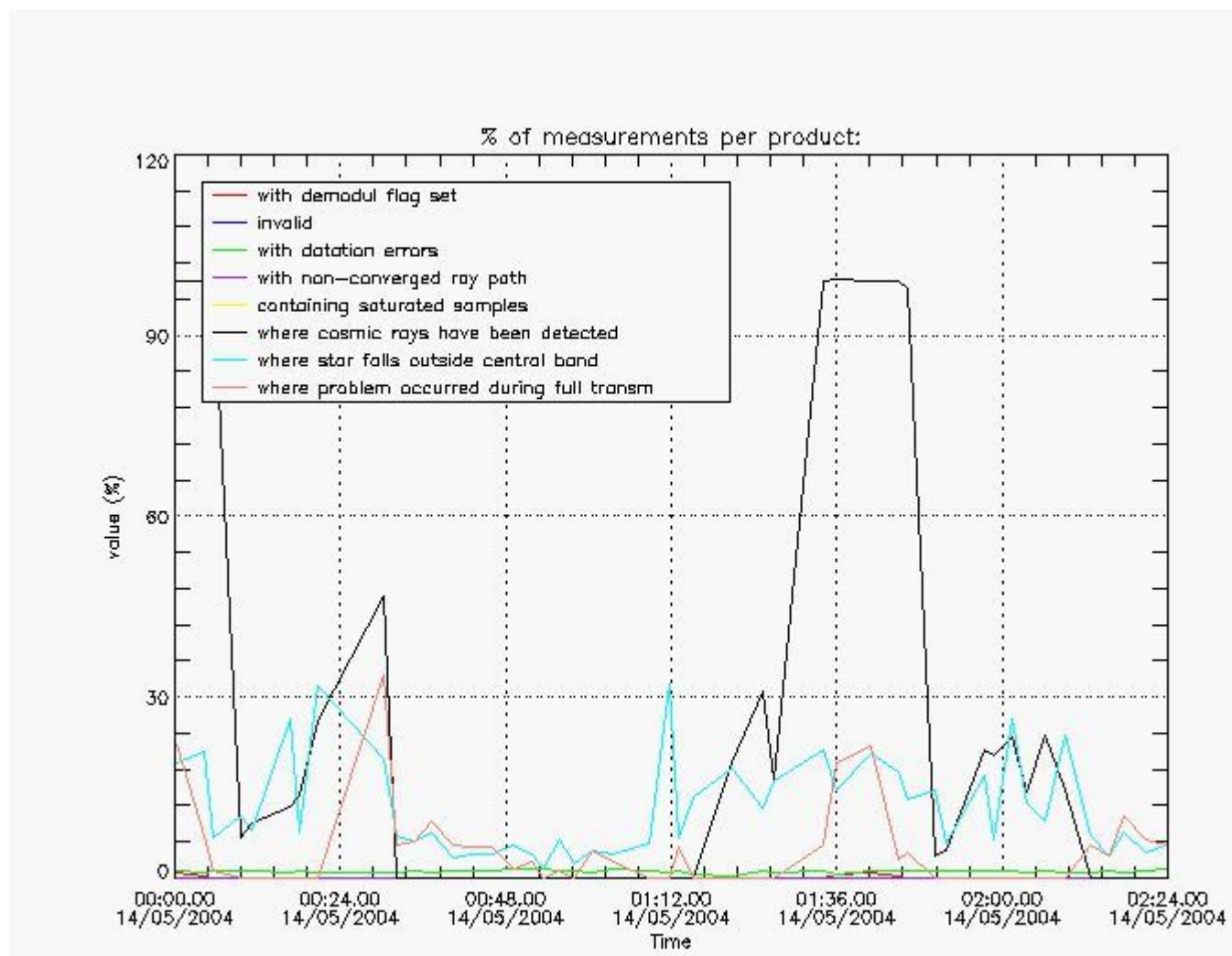
5. Demodulation flag and quality information monitoring

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:

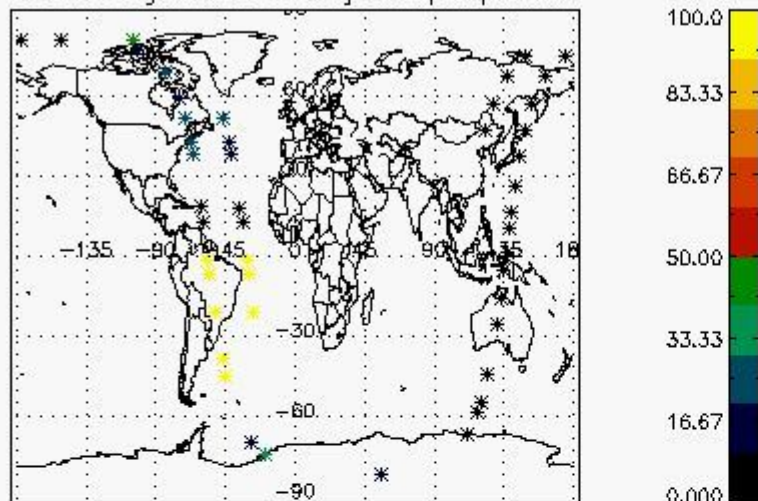
At least one measurement with demodulation flag set:	17.0213 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

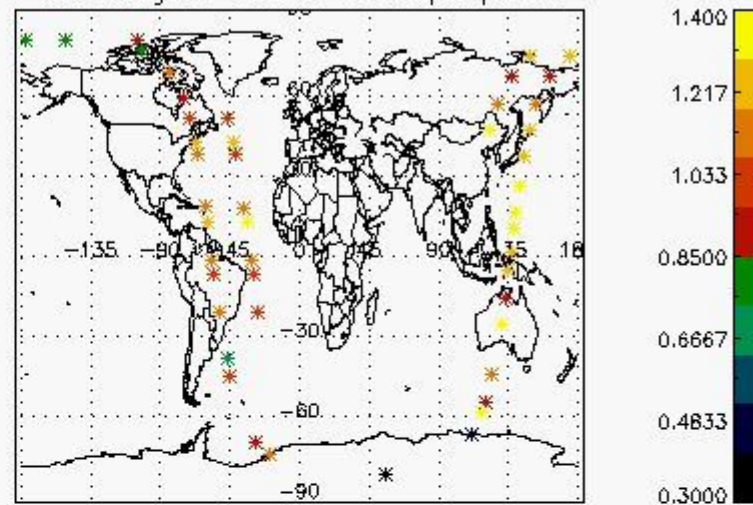


5.3 Plot quality information per product (world map)

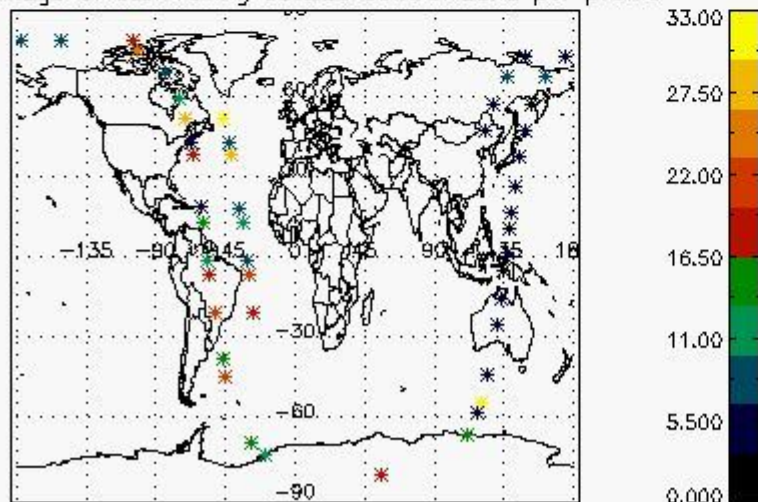
Percentage of cosmic ray hits per profile



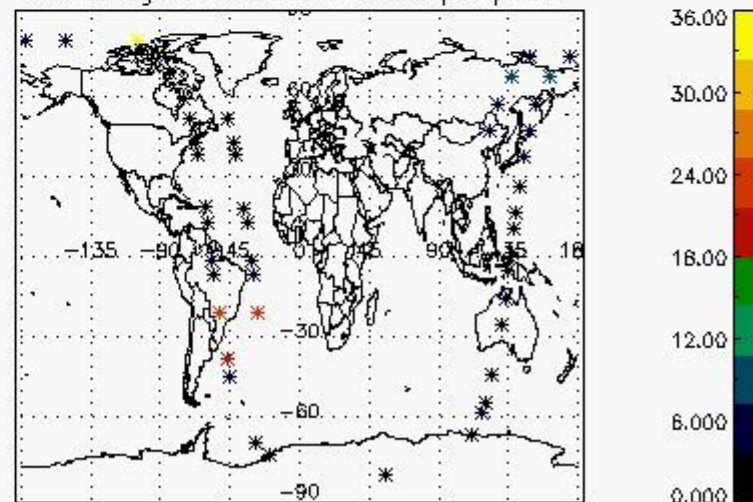
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



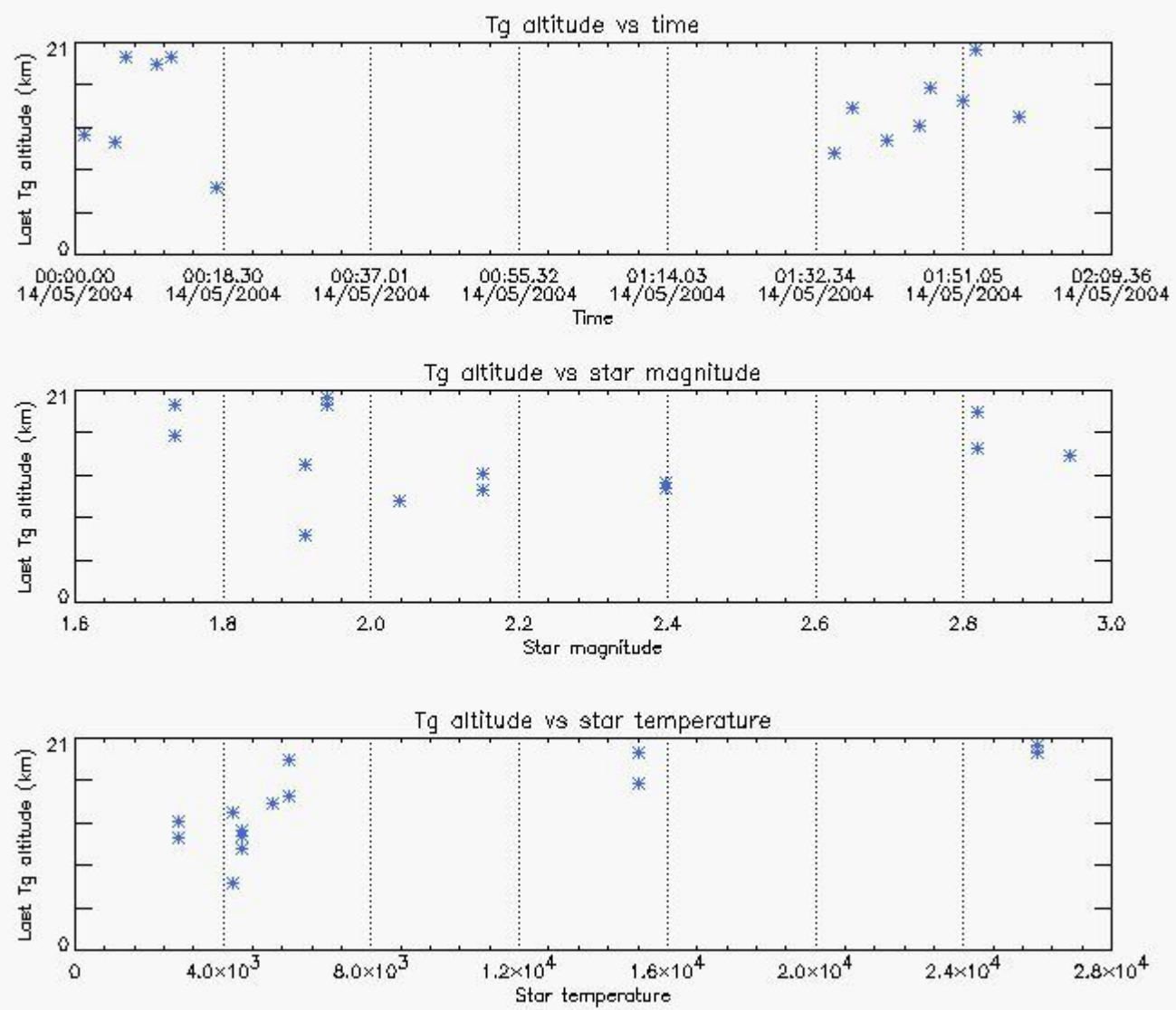
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.426	19.505	13.208
St. deviation:	4.1497	4.5263	5.5908
Maximum:	20.338	24.641	19.747
Minimum:	6.6486	5.6006	4.8379
Number of data:	14.000	26.000	7.0000

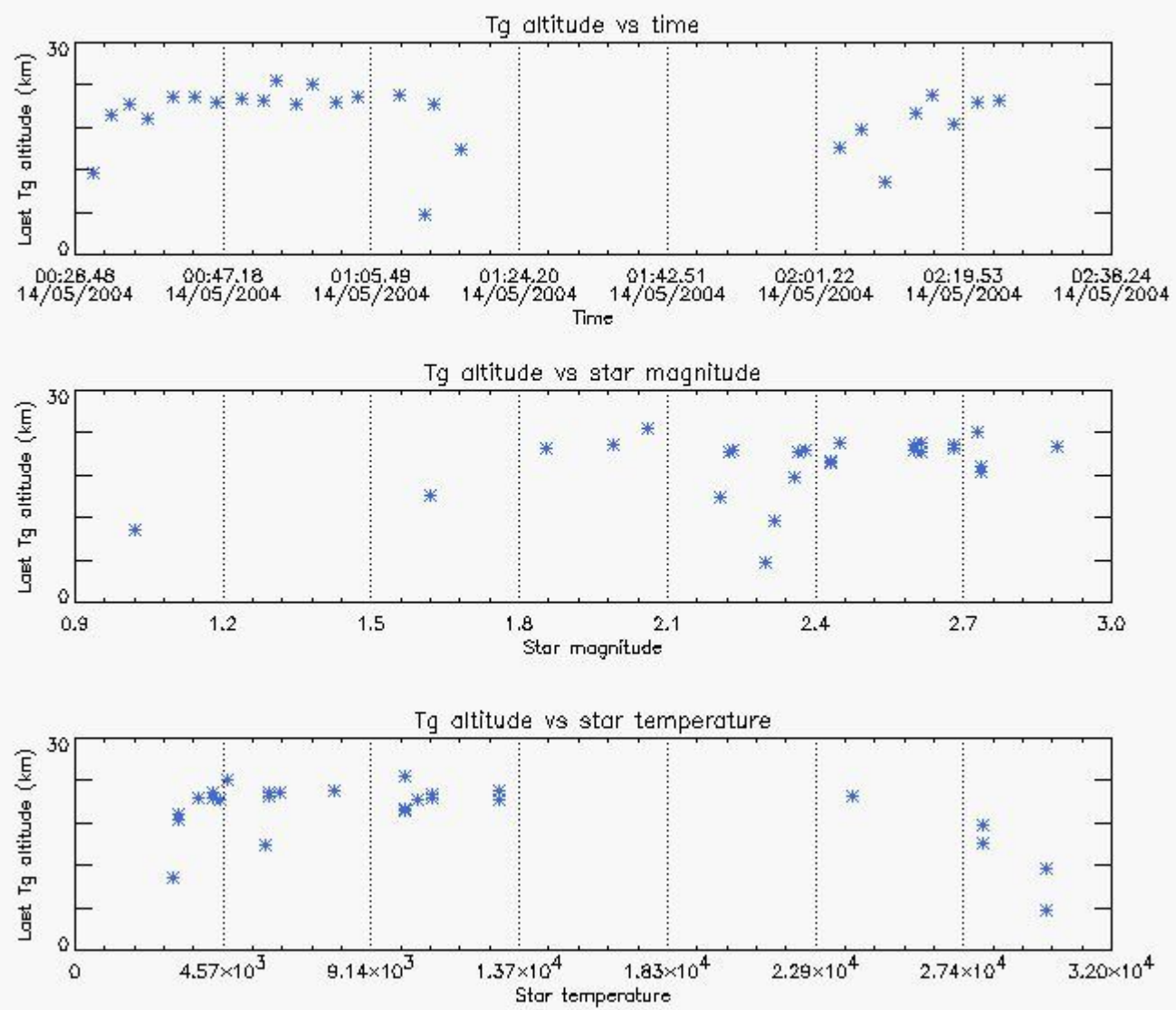
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



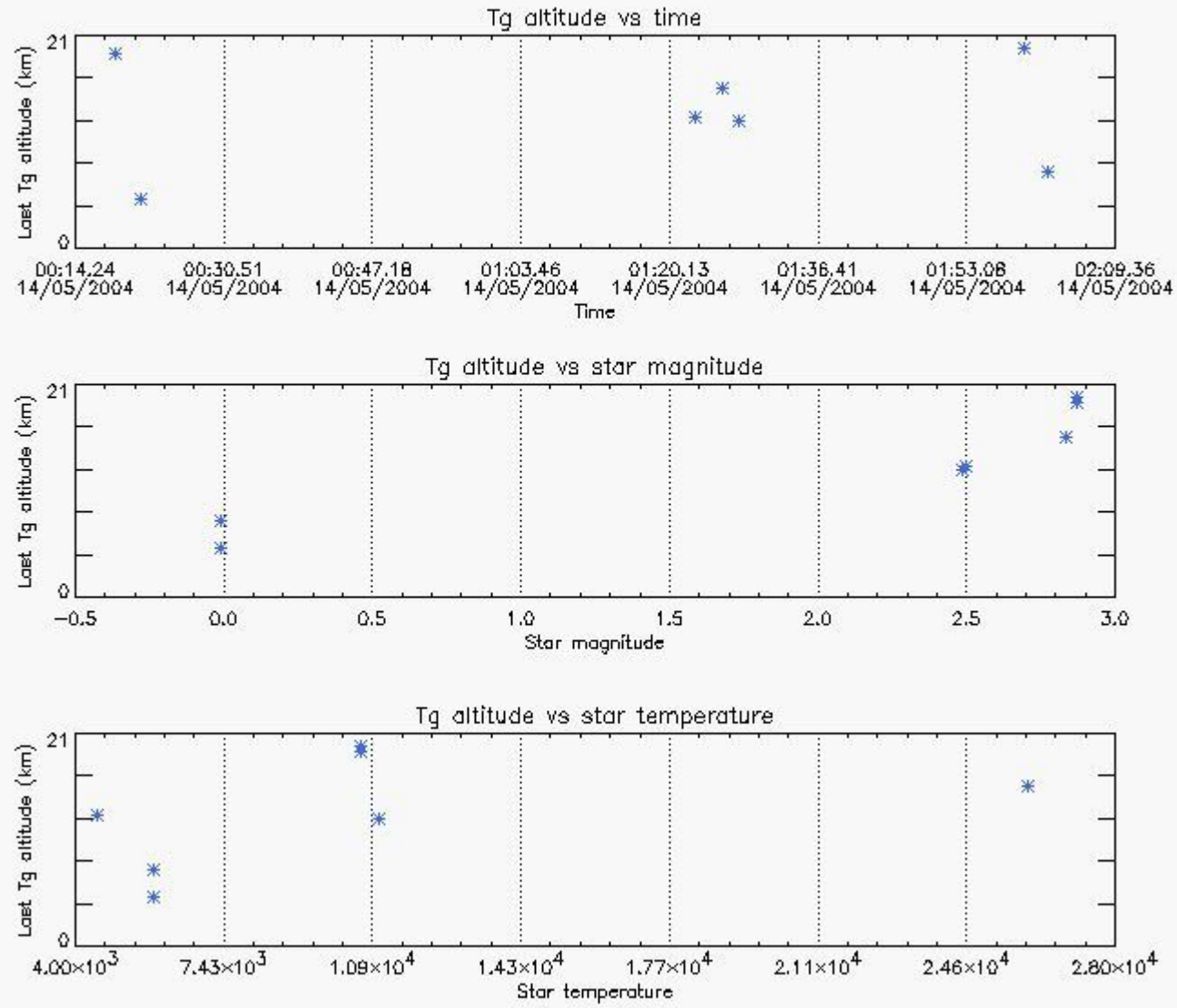
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

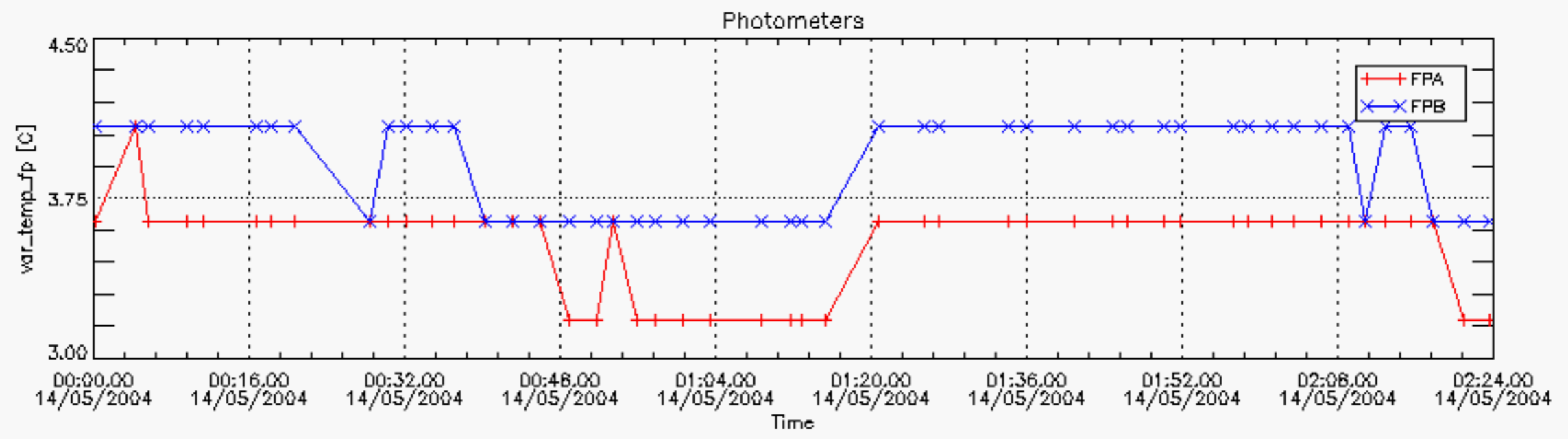
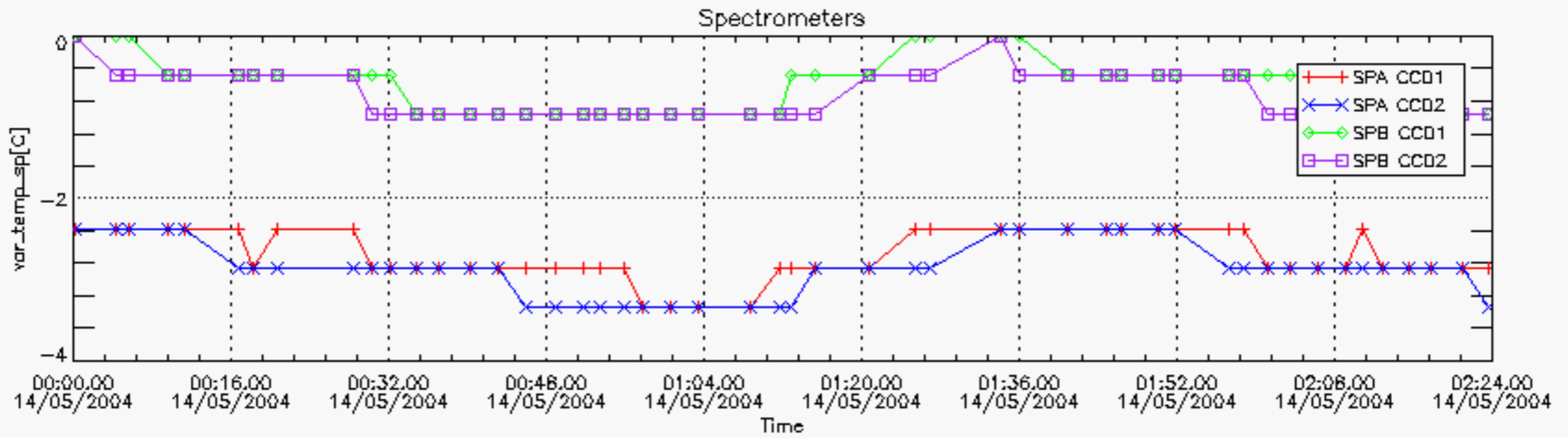
Tangent altitude at which the star is lost

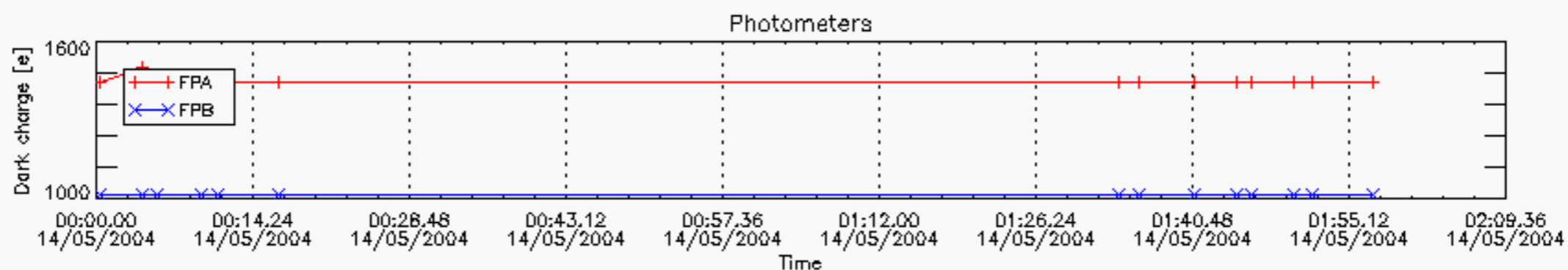
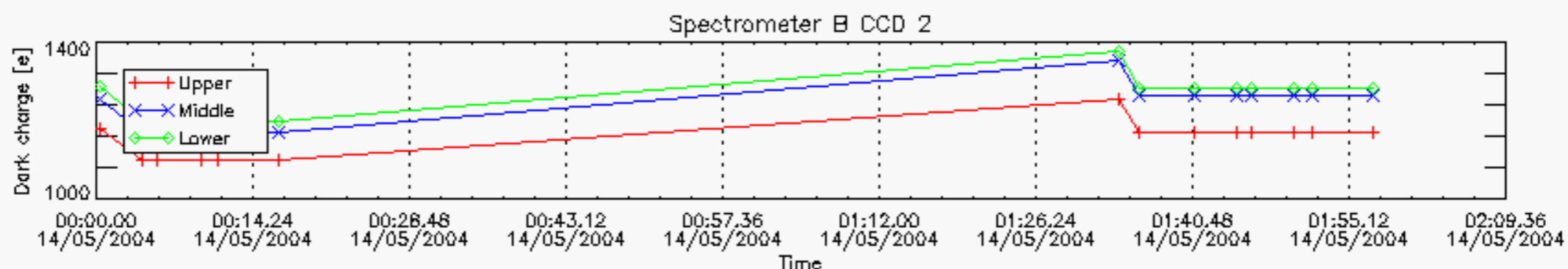
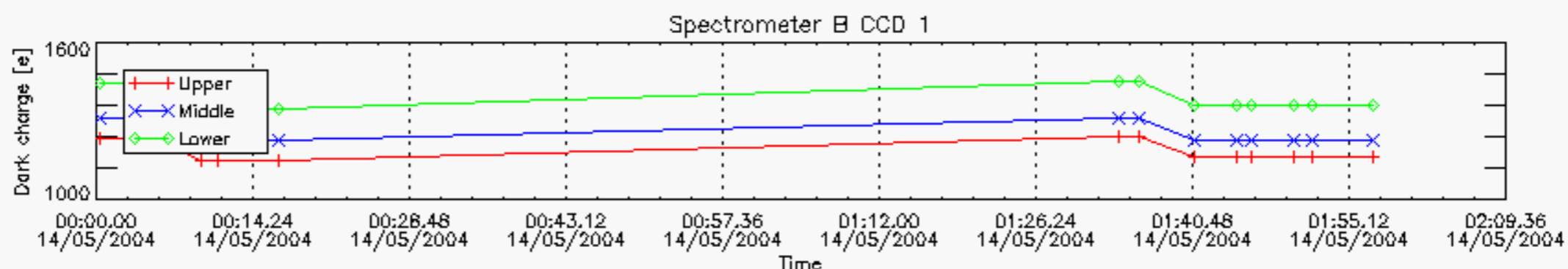
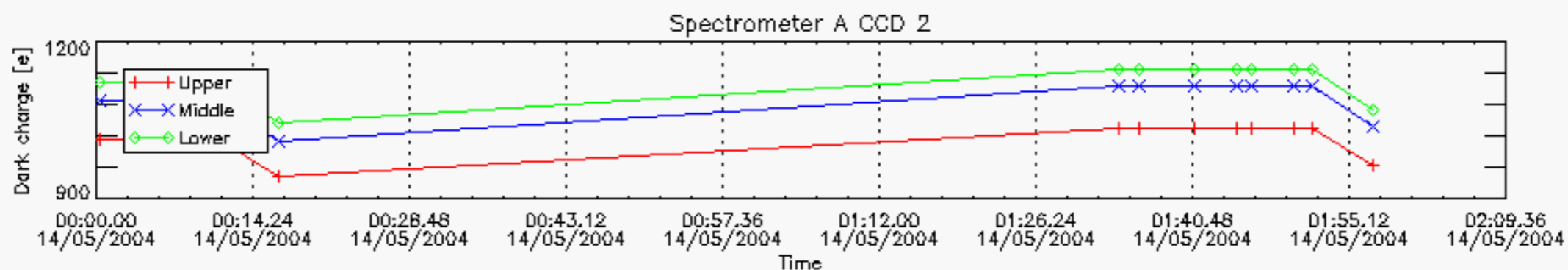
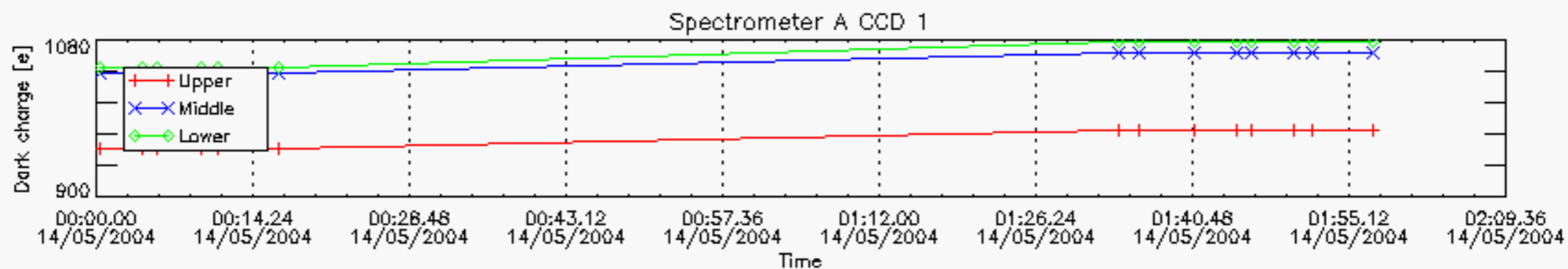


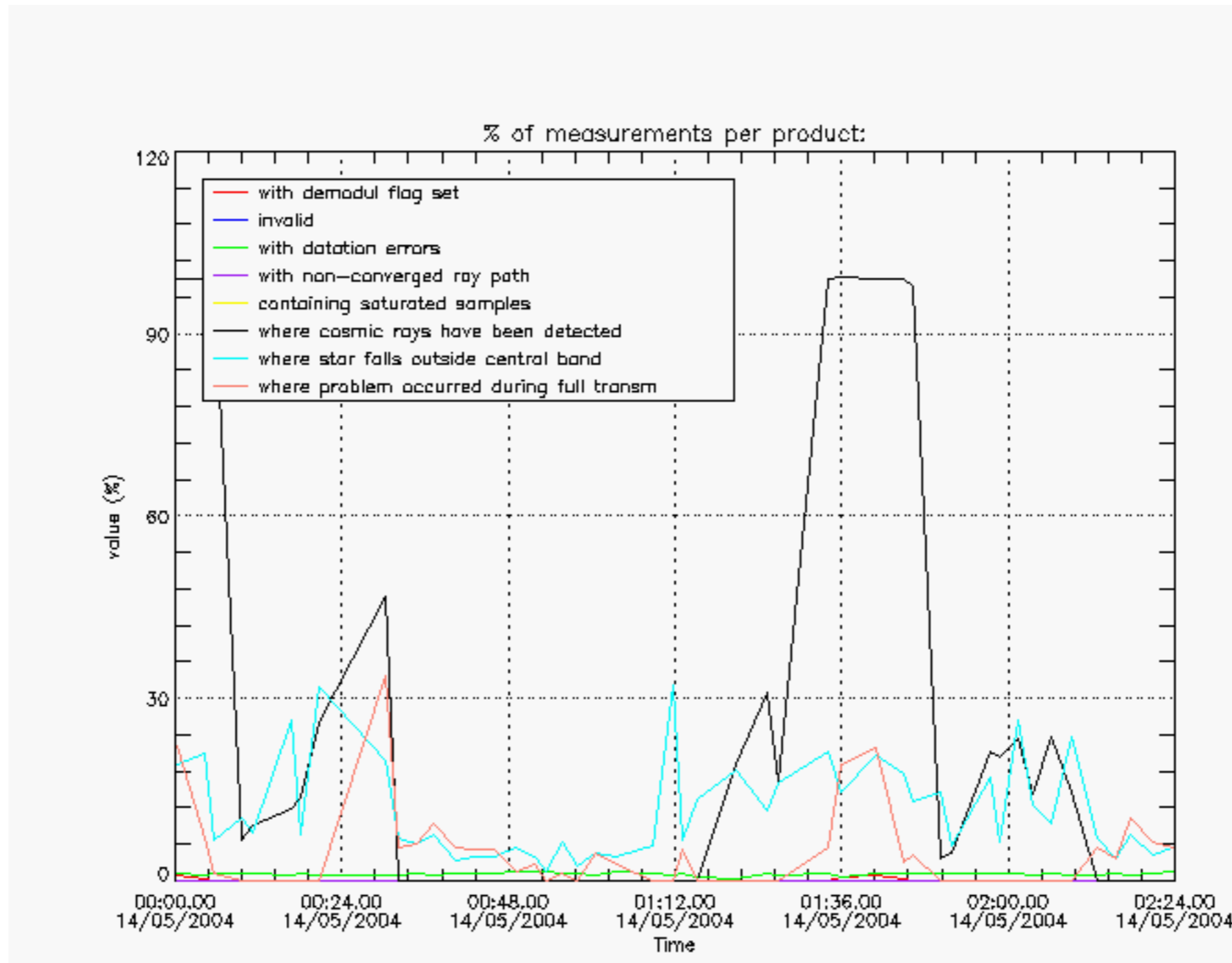
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

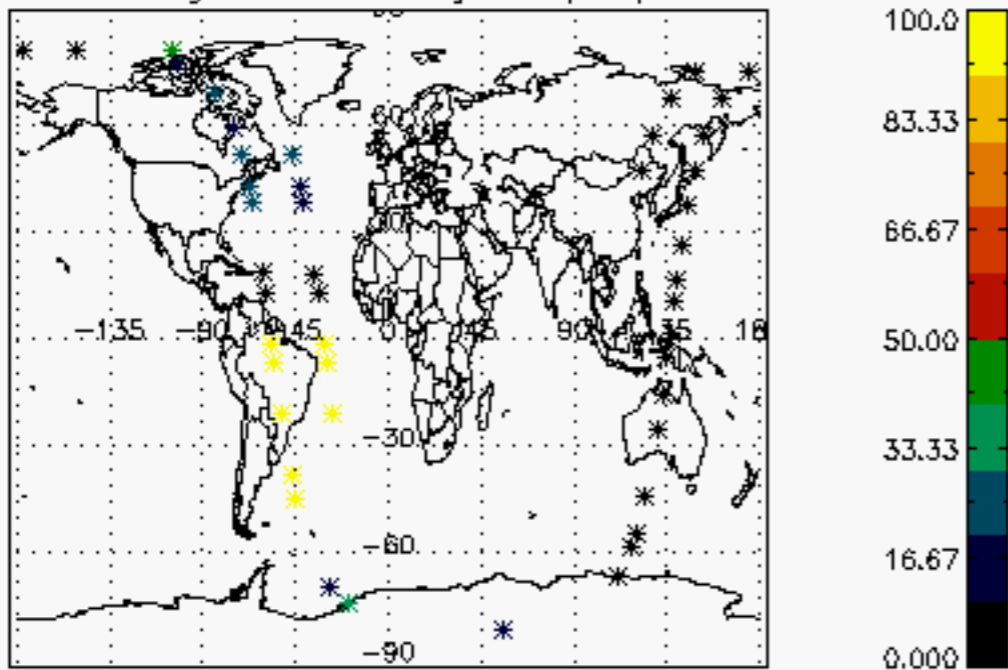
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.6	1445.8	1462.1	1447.8
St. deviation:	4.3984	5.8100	7.0592	7.9375
Maximum:	1623.0	1498.0	1513.0	1495.0
Minimum:	1454.0	1429.0	1438.0	1416.0
Number of data:	17400.	17400.	32550.	32550.



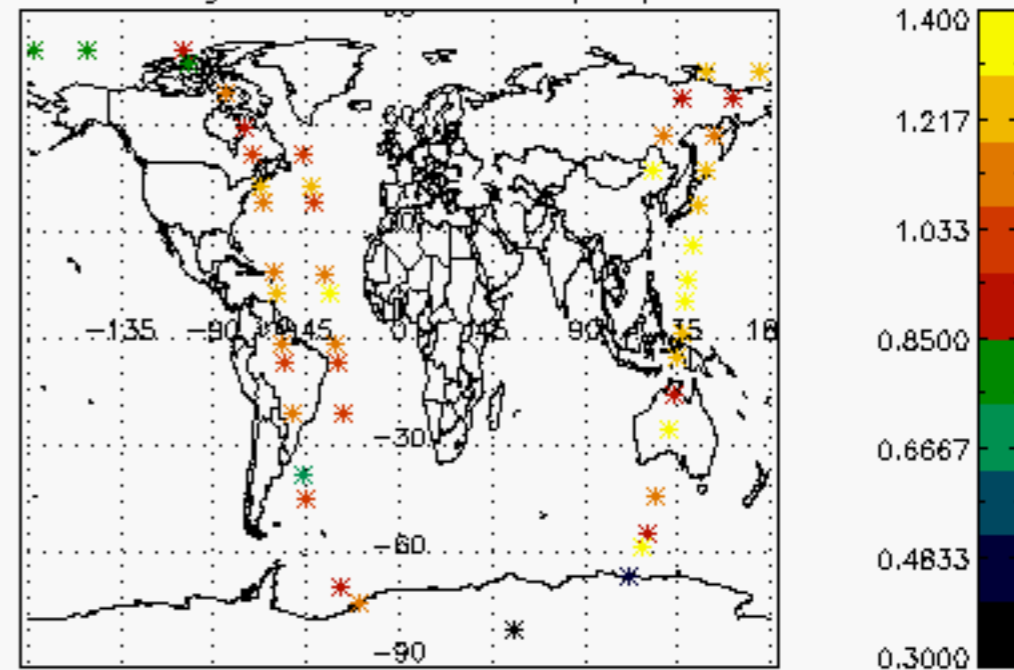




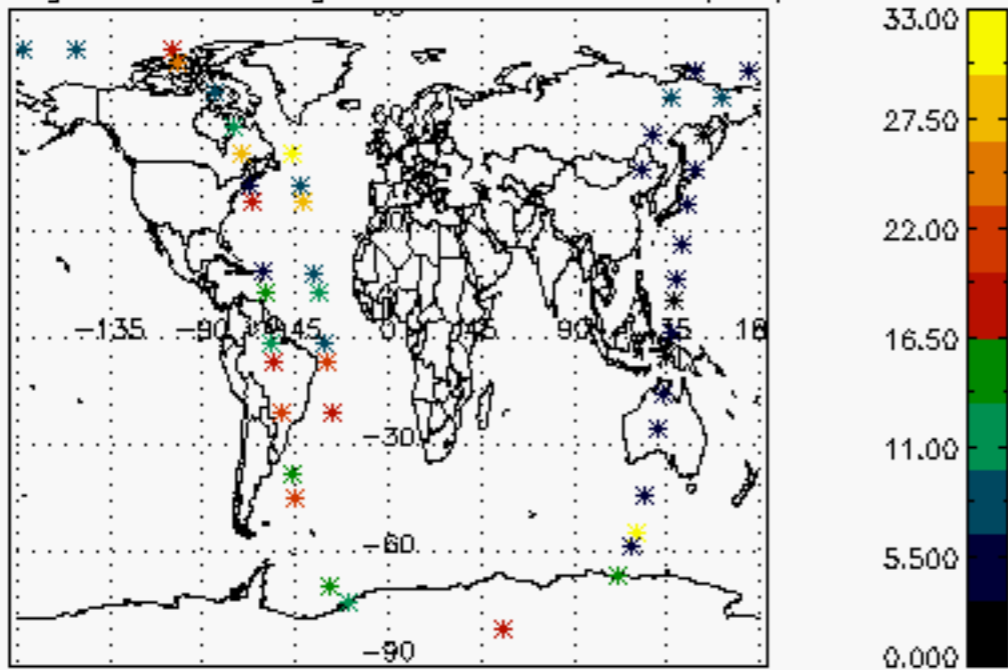
Percentage of cosmic ray hits per profile



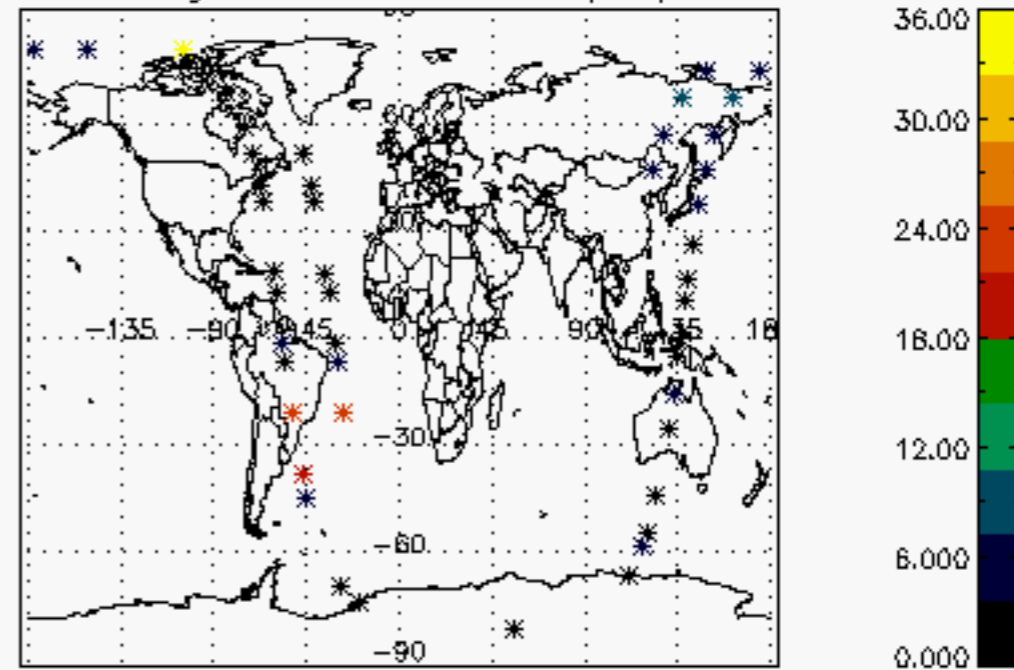
Percentage of datation errors per profile



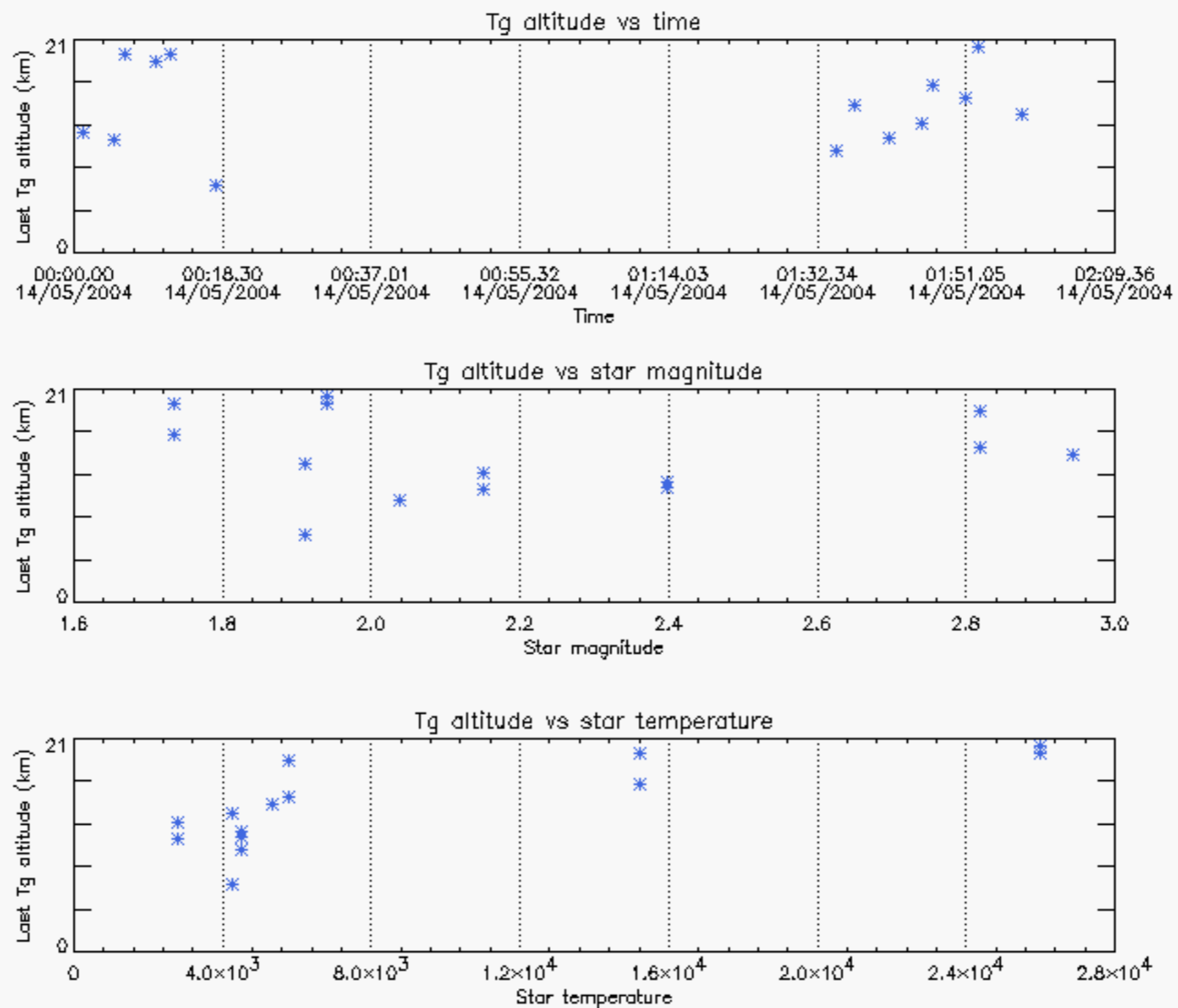
Percentage of star falling outside central band per profile



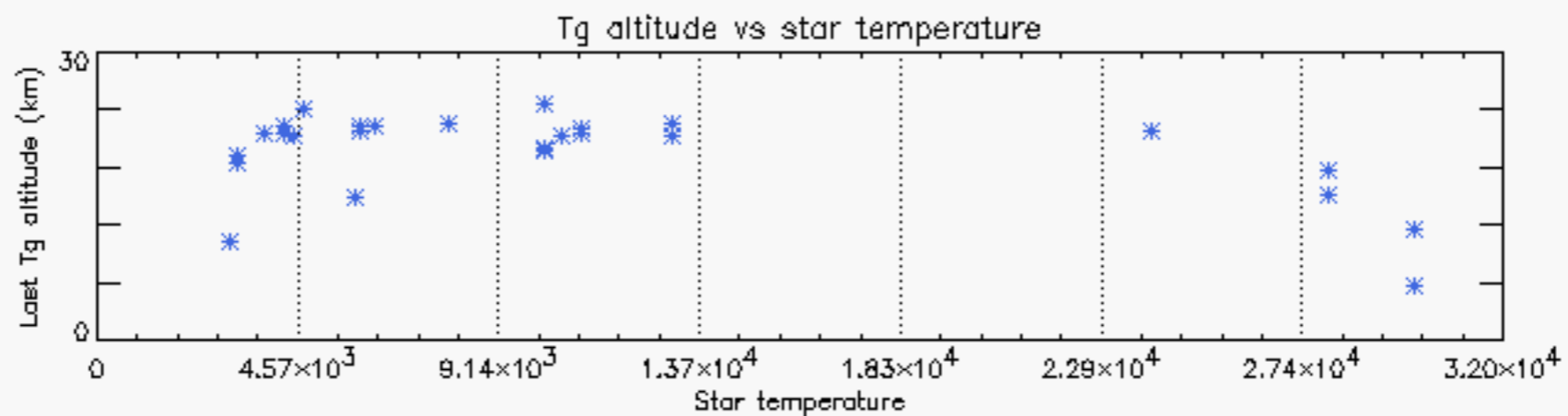
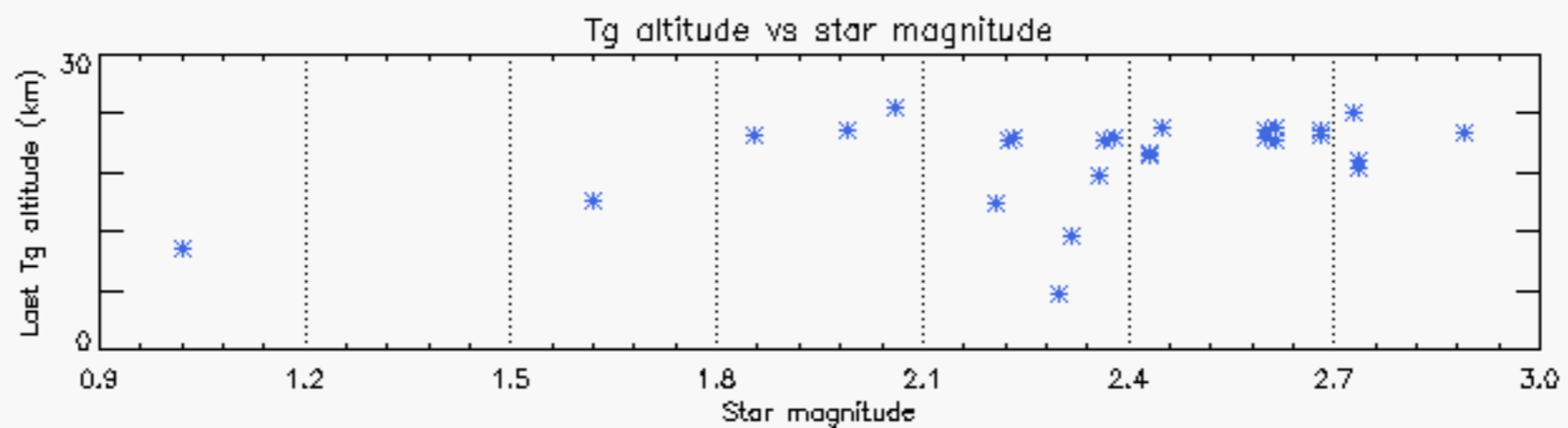
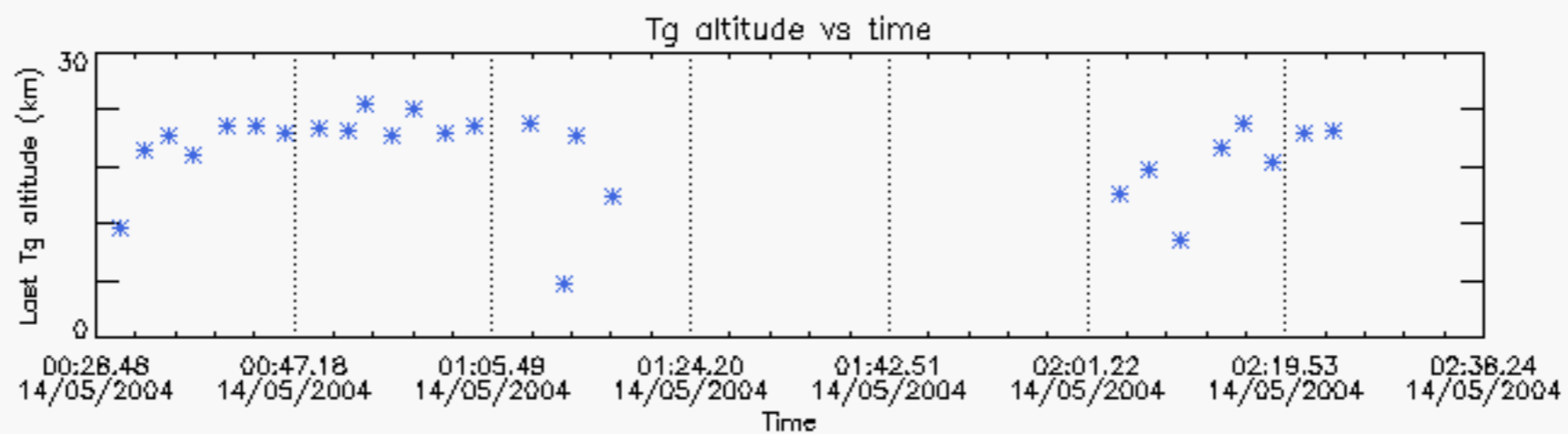
Percentage of saturation errors per profile



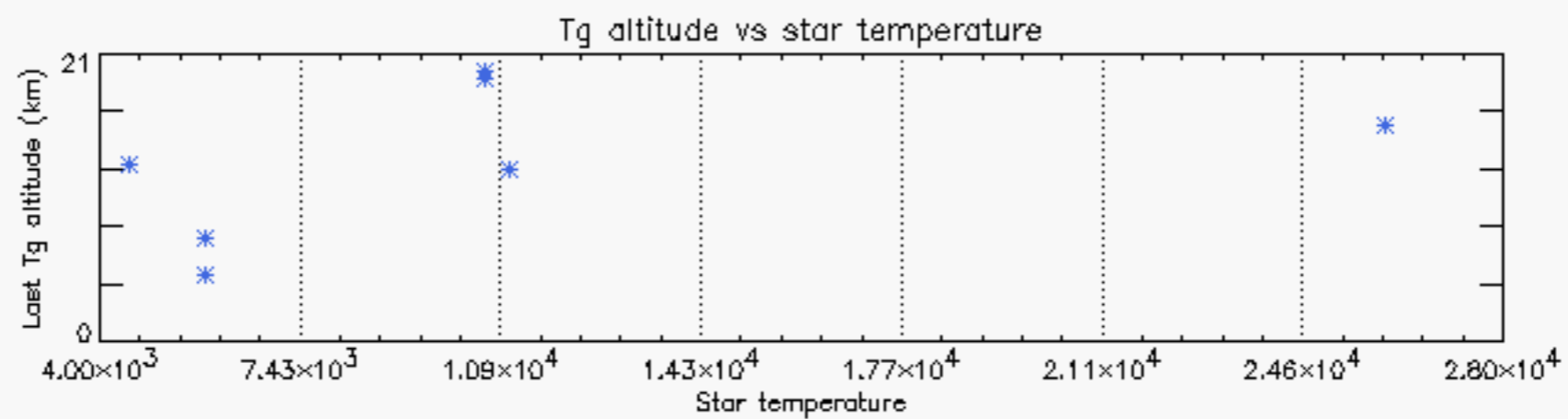
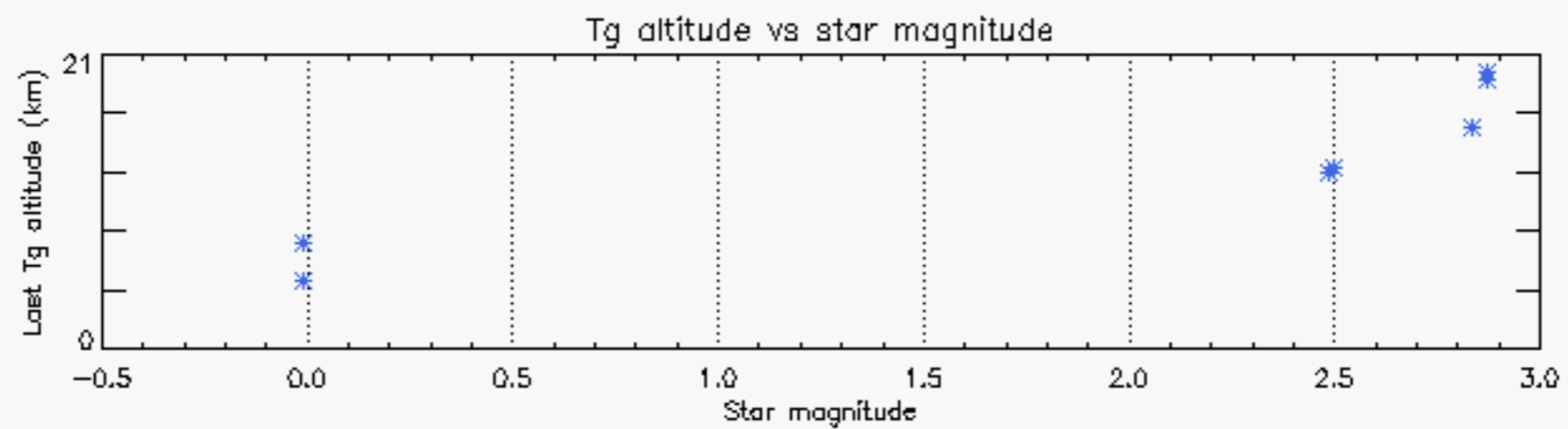
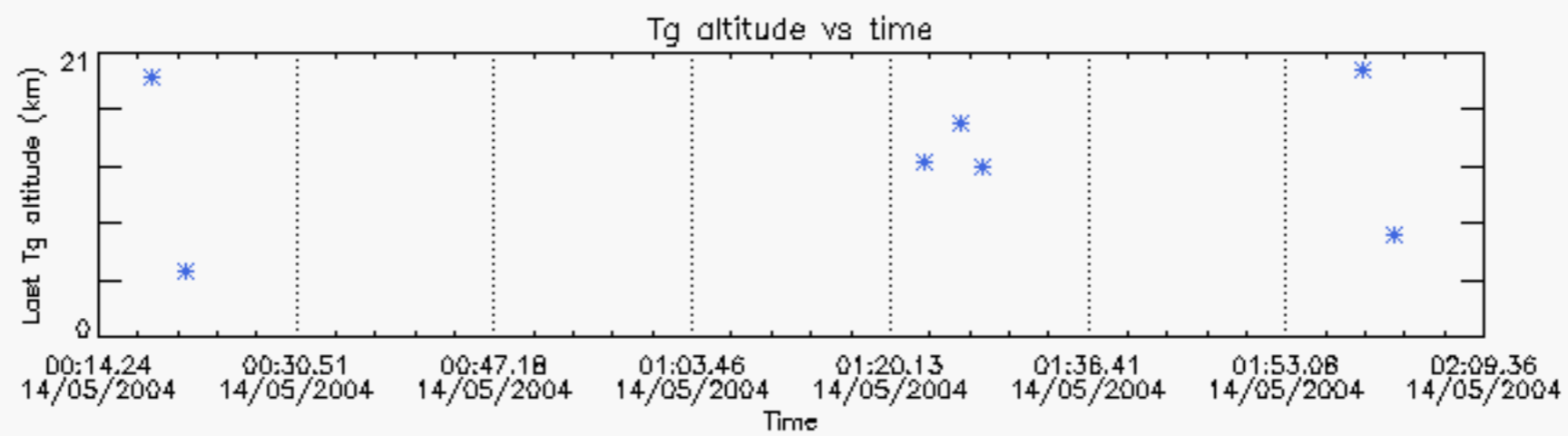
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL__0PNPDK20040501_054516_000060832026_00263_11339_0529.N1

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
18;	-1563.0;	01-MAY-2004	06:31:03;	Dark	;	92;	53Eps Cyg	;	2.50;	4500;occ;	152;	0;	11339
19;	-1261.8;	01-MAY-2004	06:36:04;	Dark	;	90;	54Alp Peg	;	2.49;	11000;occ;	101;	0;	11339
20;	-998.9;	01-MAY-2004	06:40:27;	Dark	;	61;	8Eps Peg	;	2.10;	3900;occ;	146;	0;	11339
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
23;	-490.7;	01-MAY-2004	06:48:56;	Dark	;	18;	24Alp PsA	;	1.17;	9700;occ;	93;	0;	11339
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
36;	1590.3;	01-MAY-2004	07:23:37;	Bright;	46.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	92;	0;	11340
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2;	-4445.5;	02-MAY-2004	00:09:36;	Bright;	46.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	93;	0;	11350	
3;	-4311.3;	02-MAY-2004	00:11:50;	Bright;	50.0;	104;	27Bet Lib	;	2.61;	13100;occ;	100;	0;	11350	
4;	-4137.9;	02-MAY-2004	00:14:43;	Bright;	37.5;	121;	29Gam Vir	;	2.74;	7200;occ;	75;	0;	11350	
5;	-3940.7;	02-MAY-2004	00:18:01;	Bright;	36.5;	138;	47Eps Vir	;	2.83;	4700;occ;	73;	0;	11350	
6;	-3806.8;	02-MAY-2004	00:20:14;	Bright;	39.5;	111;	8Eta Boo	;	2.68;	6000;occ;	79;	0;	11350	
7;	-3591.2;	02-MAY-2004	00:23:50;	Bright;	46.5;	83;		;	2.38;	11000;occ;	93;	0;	11350	
8;	-3477.6;	02-MAY-2004	00:25:44;	Bright;	38.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	77;	0;	11350	
9;	-3303.3;	02-MAY-2004	00:28:38;	Bright;	53.0;	174;	52Psi UMa	;	3.00;	4400;occ;	106;	0;	11350	
10;	-3201.4;	02-MAY-2004	00:30:20;	Bright;	36.5;	87;	64Gam UMa	;	2.43;	11000;occ;	73;	0;	11350	
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	
18;	-1904.4;	02-MAY-2004	00:51:57;	Bright;	62.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	125;	0;	11350	
19;	-1786.9;	02-MAY-2004	00:53:54;	Bright;	78.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	156;	0;	11350	
20;	-1562.5;	02-MAY-2004	00:57:39;	Dark	;	82.5;	92;	53Eps Cyg	;	2.50;	4500;occ;	165;	0;	11350
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
24;	-612.5;	02-MAY-2004	01:13:29;	Dark	;	66.0;	154;	22Bet Aqr	;	2.90;	5700;occ;	132;	0;	11350
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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31; 835.8; 02-MAY-2004 01:37:37; Dark ; 50.5; 4; Alp1Cen ;-0.01; 5800;occ; 101; 0;11351
32; 925.8; 02-MAY-2004 01:39:07; Dark ; 39.0; 20; Bet Cru ; 1.25; 30000;occ; 78; 0;11351
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34; 1133.8; 02-MAY-2004 01:42:35; Dark ; 43.0; 81; Eta Cen ; 2.36; 28000;occ; 86; 0;11351
35; 1272.7; 02-MAY-2004 01:44:54; Dark ; 72.5; 16; 21Alp Sco ; 1.02; 3000;occ; 145; 0;11351
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 2;-4445.3; 02-MAY-2004 01:50:12; Bright; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;11351
 3;-4311.5; 02-MAY-2004 01:52:26; Bright; 49.0; 104; 27Bet Lib ; 2.61; 13100;occ; 98; 0;11351
 4;-4138.7; 02-MAY-2004 01:55:18; Bright; 39.0; 121; 29Gam Vir ; 2.74; 7200;occ; 78; 0;11351
 5;-3940.8; 02-MAY-2004 01:58:36; Bright; 37.5; 138; 47Eps Vir ; 2.83; 4700;occ; 75; 0;11351
 6;-3807.2; 02-MAY-2004 02:00:50; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;11351
 7;-3591.9; 02-MAY-2004 02:04:25; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;11351
 8;-3477.8; 02-MAY-2004 02:06:19; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;11351
 9;-3302.8; 02-MAY-2004 02:09:14; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;11351
10;-3201.8; 02-MAY-2004 02:10:55; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;11351
11;-3114.5; 02-MAY-2004 02:12:23; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;11351
12;-3037.7; 02-MAY-2004 02:13:39; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;11351
13;-2823.0; 02-MAY-2004 02:17:14; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;11351
14;-2593.1; 02-MAY-2004 02:21:04; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;11351
15;-2215.3; 02-MAY-2004 02:27:22; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;11351
16;-2116.8; 02-MAY-2004 02:29:00; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;11351
17;-2035.6; 02-MAY-2004 02:30:21; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;11351
18;-1904.7; 02-MAY-2004 02:32:32; Bright; 60.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 121; 0;11351
19;-1787.0; 02-MAY-2004 02:34:30; Bright; 78.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 157; 0;11351
20;-1562.4; 02-MAY-2004 02:38:15; Dark ; 85.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 171; 0;11351
21;-1257.0; 02-MAY-2004 02:43:20; Dark ; 50.0; 90; 54Alp Peg ; 2.49; 11000;occ; 100; 0;11351
22; -987.4; 02-MAY-2004 02:47:50; Dark ; 70.0; 61; 8Eps Peg ; 2.10; 3900;occ; 140; 0;11351
23; -792.0; 02-MAY-2004 02:51:05; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;11351
24; -611.1; 02-MAY-2004 02:54:06; Dark ; 65.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 130; 0;11351
25; -484.8; 02-MAY-2004 02:56:12; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;11351
26; -354.2; 02-MAY-2004 02:58:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11351
27; -224.8; 02-MAY-2004 03:00:32; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;11351
28; -137.6; 02-MAY-2004 03:02:00; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;11351
29; 191.9; 02-MAY-2004 03:07:29; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;11352
30; 582.0; 02-MAY-2004 03:13:59; Dark ; 44.0; 43; Alp TrA ; 1.91; 4250;occ; 88; 0;11352
31; 712.1; 02-MAY-2004 03:16:09; Dark ; 43.0; 134; Bet TrA ; 2.81; 6600;occ; 86; 0;11352
32; 836.1; 02-MAY-2004 03:18:13; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;11352
33; 925.6; 02-MAY-2004 03:19:43; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;11352
34; 1039.8; 02-MAY-2004 03:21:37; Dark ; 44.5; 78; Alp Lup ; 2.30; 28000;occ; 89; 0;11352
35; 1134.1; 02-MAY-2004 03:23:11; Dark ; 41.5; 81; Eta Cen ; 2.36; 28000;occ; 83; 0;11352
36; 1273.8; 02-MAY-2004 03:25:31; Dark ; 70.5; 16; 21Alp Sco ; 1.02; 3000;occ; 141; 0;11352
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 2;-4310.9; 02-MAY-2004 03:33:02; Bright; 49.5; 104; 27Bet Lib ; 2.61; 13100;occ; 99; 0;11352
 3;-4140.5; 02-MAY-2004 03:35:53; Bright; 41.0; 121; 29Gam Vir ; 2.74; 7200;occ; 82; 0;11352
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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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 7;-3478.3; 02-MAY-2004 03:46:55; Bright; 36.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 73; 0;11352
 8;-3302.5; 02-MAY-2004 03:49:51; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;11352
 9;-3201.2; 02-MAY-2004 03:51:32; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;11352
10;-3114.4; 02-MAY-2004 03:52:59; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;11352
11;-3037.4; 02-MAY-2004 03:54:16; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;11352
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13;-2593.0; 02-MAY-2004 04:01:40; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;11352
14;-2215.4; 02-MAY-2004 04:07:58; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;11352
15;-2116.2; 02-MAY-2004 04:09:37; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;11352
16;-2035.5; 02-MAY-2004 04:10:58; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;11352
17;-1905.3; 02-MAY-2004 04:13:08; Bright; 62.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 125; 0;11352
18;-1787.3; 02-MAY-2004 04:15:06; Bright; 82.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 164; 0;11352
19;-1562.3; 02-MAY-2004 04:18:51; Dark ; 87.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 174; 0;11352
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
22; -791.2; 02-MAY-2004 04:31:42; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;11352

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25; -353.6; 02-MAY-2004 04:39:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11352
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28; 192.6; 02-MAY-2004 04:48:06; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;11353
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31; 836.3; 02-MAY-2004 04:58:49; Dark ; 50.5; 4; Alp1Cen ; -0.01; 5800;occ; 101; 0;11353
32; 925.9; 02-MAY-2004 05:00:19; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;11353
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