

GOMOS Daily Report 01-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	02MAY2004 04:03:12
Data source version	GOMOS/4.02
Start time of products	01-MAY-2004 (01MAY2004 00:00:00)
Stop time of products	02-MAY-2004 (02MAY2004 00:00:00)

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

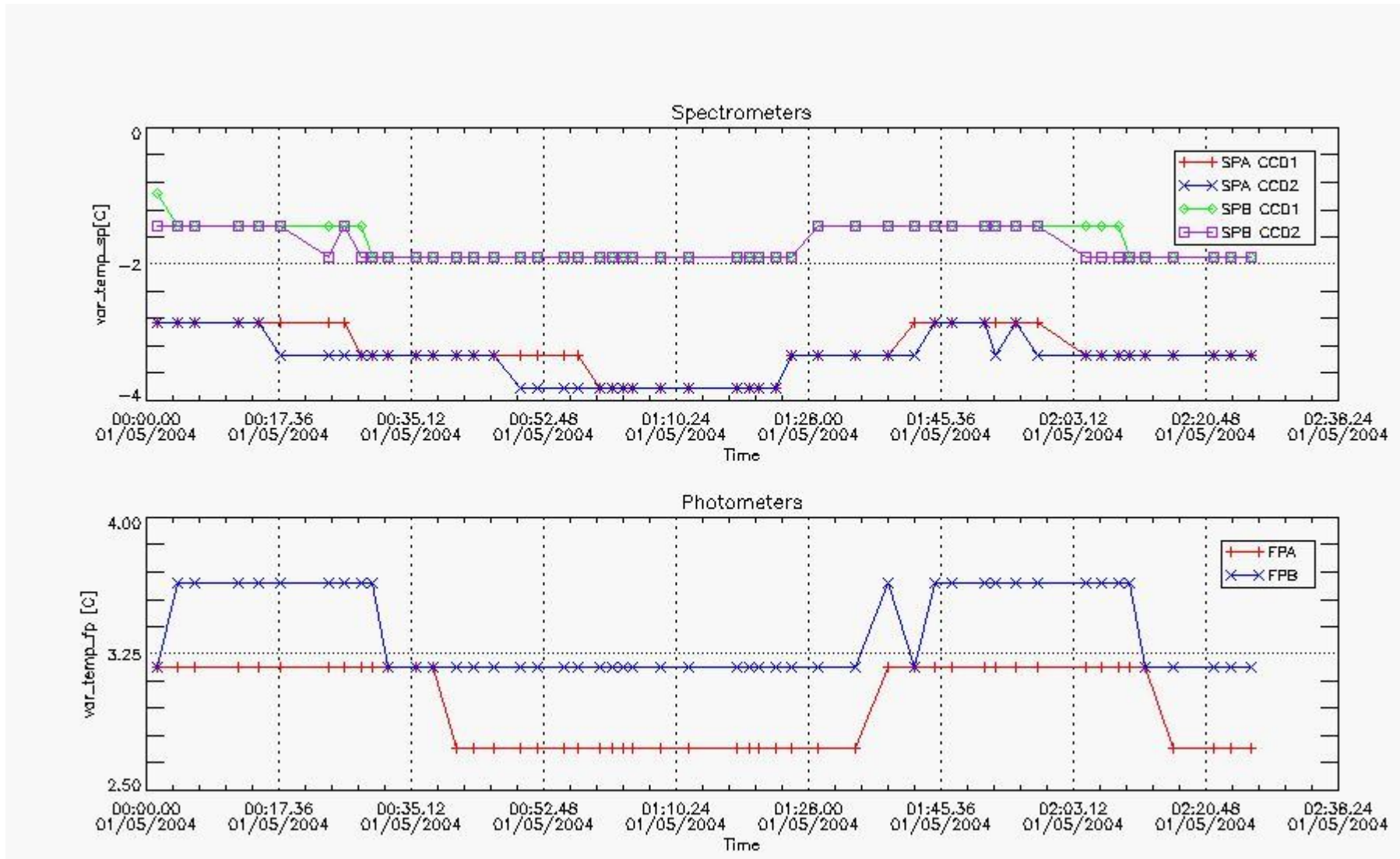
2. Summary of products arrived in PCF

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_1PNPDE20040501_000129_000000462026_00259_11335_0024.N1	01-MAY-2004 00:01:29	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	11335	No
GOM_TRA_1PNPDE20040501_000411_000000682026_00259_11335_0025.N1	01-MAY-2004 00:04:11	Dark	67.500	154	22Bet Aqr	2.8990	5700.0	135	11335	No
GOM_TRA_1PNPDE20040501_000629_000000432026_00259_11335_0026.N1	01-MAY-2004 00:06:29	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	11335	No
GOM_TRA_1PNPDE20040501_001215_000000472026_00259_11335_0027.N1	01-MAY-2004 00:12:15	Dark	46.500	31	Alp Gru	1.7340	15200.	93	11335	No
GOM_TRA_1PNPDE20040501_001449_000000432026_00260_11336_0028.N1	01-MAY-2004 00:14:49	Dark	42.500	148	Alp Tuc	2.8780	4100.0	85	11336	No
GOM_TRA_1PNPDE20040501_001745_000000432026_00260_11336_0029.N1	01-MAY-2004 00:17:45	Dark	42.500	45	Alp Pav	1.9400	26000.	85	11336	No
GOM_TRA_1PNPDE20040501_002417_000000512026_00260_11336_0030.N1	01-MAY-2004 00:24:17	Dark	51.000	43	Alp TrA	1.9100	4250.0	102	11336	No
GOM_TRA_1PNPDE20040501_002615_000000702026_00260_11336_0031.N1	01-MAY-2004 00:26:15	Dark	69.500	38	20Eps Sgr	1.8360	11000.	139	11336	No
GOM_TRA_1PNPDE20040501_002834_000000532026_00260_11336_0032.N1	01-MAY-2004 00:28:34	Twilight	53.000	4	Alp1Cen	-0.010000	5800.0	106	11336	No
GOM_TRA_1PNPDE20040501_003006_000000442026_00260_11336_0033.N1	01-MAY-2004 00:30:06	Twilight	44.000	20	Bet Cru	1.2530	30000.	88	11336	No
GOM_TRA_1PNPDE20040501_003204_000000652026_00260_11336_0034.N1	01-MAY-2004 00:32:04	Bright	65.000	75	26Eps Sco	2.2910	4250.0	130	11336	No
GOM_TRA_1PNPDE20040501_003549_000000722026_00260_11336_0035.N1	01-MAY-2004 00:35:49	Bright	72.000	16	21Alp Sco	1.0200	3000.0	144	11336	No
GOM_TRA_1PNPDE20040501_003803_000000622026_00260_11336_0000.N1	01-MAY-2004 00:38:03	Bright	62.000	80	7Del Sco	2.3160	30000.	124	11336	No
GOM_TRA_1PNPDE20040501_004109_000000462026_00260_11336_0001.N1	01-MAY-2004 00:41:09	Bright	45.500	122	9Alp2Lib	2.7470	9700.0	91	11336	No
GOM_TRA_1PNPDE20040501_004329_000000492026_00260_11336_0002.N1	01-MAY-2004 00:43:29	Bright	48.500	104	27Bet Lib	2.6140	13100.	97	11336	No
GOM_TRA_1PNPDE20040501_004615_000000412026_00260_11336_0003.N1	01-MAY-2004 00:46:15	Bright	40.500	121	29Gam Vir	2.7400	7200.0	81	11336	No
GOM_TRA_1PNPDE20040501_004936_000000382026_00260_11336_0004.N1	01-MAY-2004 00:49:36	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	11336	No
GOM_TRA_1PNPDE20040501_005152_000000412026_00260_11336_0005.N1	01-MAY-2004 00:51:52	Bright	40.500	111	8Eta Boo	2.6800	6000.0	81	11336	No
GOM_TRA_1PNPDE20040501_005533_000000462026_00260_11336_0006.N1	01-MAY-2004 00:55:33	Bright	46.000	83		2.3780	11000.	92	11336	No
GOM_TRA_1PNPDE20040501_005719_000000382026_00260_11336_0007.N1	01-MAY-2004 00:57:19	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	11336	No
GOM_TRA_1PNPDE20040501_010010_000000382026_00260_11336_0008.N1	01-MAY-2004 01:00:10	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	11336	No
GOM_TRA_1PNPDE20040501_010152_000000412026_00260_11336_0009.N1	01-MAY-2004 01:01:52	Bright	40.500	87	64Gam UMa	2.4330	11000.	81	11336	No
GOM_TRA_1PNPDE20040501_010316_000000422026_00260_11336_0010.N1	01-MAY-2004 01:03:16	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	11336	No
GOM_TRA_1PNPDE20040501_010435_000000422026_00260_11336_0011.N1	01-MAY-2004 01:04:35	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	11336	No
GOM_TRA_1PNPDE20040501_010818_000000422026_00260_11336_0012.N1	01-MAY-2004 01:08:18	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	11336	No
GOM_TRA_1PNPDE20040501_011203_000000412026_00260_11336_0013.N1	01-MAY-2004 01:12:03	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	11336	No
GOM_TRA_1PNPDE20040501_011828_000000592026_00260_11336_0014.N1	01-MAY-2004 01:18:28	Bright	58.500	89	5Alp Cep	2.4510	8000.0	117	11336	No
GOM_TRA_1PNPDE20040501_012004_000000382026_00260_11336_0015.N1	01-MAY-2004 01:20:04	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	11336	No
GOM_TRA_1PNPDE20040501_012121_000000372026_00260_11336_0016.N1	01-MAY-2004 01:21:21	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	11336	No
GOM_TRA_1PNPDE20040501_012340_000000622026_00260_11336_0017.N1	01-MAY-2004 01:23:40	Bright	61.500	19	50Alp Cyg	1.2460	10500.	123	11336	No
GOM_TRA_1PNPDE20040501_012537_000000792026_00260_11336_0018.N1	01-MAY-2004 01:25:37	Twilight	78.500	66	37Gam Cyg	2.2080	5900.0	157	11336	No
GOM_TRA_1PNPDE20040501_012915_000000842026_00260_11336_0019.N1	01-MAY-2004 01:29:15	Twilight	84.000	92	53Eps Cyg	2.5000	4500.0	168	11336	No
GOM_TRA_1PNPDE20040501_013416_000000482026_00260_11336_0020.N1	01-MAY-2004 01:34:16	Twilight	47.500	90	54Alp Peg	2.4870	11000.	95	11336	No
GOM_TRA_1PNPDE20040501_013837_000000722026_00260_11336_0021.N1	01-MAY-2004 01:38:37	Dark	71.500	61	8Eps Peg	2.1000	3900.0	143	11336	No
GOM_TRA_1PNPDE20040501_014205_000000452026_00260_11336_0022.N1	01-MAY-2004 01:42:05	Dark	45.000	52	16Bet Cet	2.0370	4500.0	90	11336	No
GOM_TRA_1PNPDE20040501_014448_000000612026_00260_11336_0023.N1	01-MAY-2004 01:44:48	Dark	60.500	154	22Bet Aqr	2.8990	5700.0	121	11336	No
GOM_TRA_1PNPDE20040501_014705_000000522026_00260_11336_0024.N1	01-MAY-2004 01:47:05	Dark	52.000	18	24Alp PsA	1.1660	9700.0	104	11336	No
GOM_TRA_1PNPDE20040501_015120_000000462026_00260_11336_0025.N1	01-MAY-2004 01:51:20	Dark	45.500	172	Gam Gru	3.0030	13100.	91	11336	No
GOM_TRA_1PNPDE20040501_015249_000000442026_00260_11336_0026.N1	01-MAY-2004 01:52:49	Dark	44.000	31	Alp Gru	1.7340	15200.	88	11336	No
GOM_TRA_1PNPDE20040501_015527_000000412026_00261_11337_0027.N1	01-MAY-2004 01:55:27	Dark	40.500	148	Alp Tuc	2.8780	4100.0	81	11337	No
GOM_TRA_1PNPDE20040501_015820_000000422026_00261_11337_0028.N1	01-MAY-2004 01:58:20	Dark	42.000	45	Alp Pav	1.9400	26000.	84	11337	No
GOM_TRA_1PNPDE20040501_020455_000000412026_00261_11337_0029.N1	01-MAY-2004 02:04:55	Dark	40.500	43	Alp TrA	1.9100	4250.0	81	11337	No
GOM_TRA_1PNPDE20040501_020653_000000742026_00261_11337_0030.N1	01-MAY-2004 02:06:53	Dark	74.000	38	20Eps Sgr	1.8360	11000.	148	11337	No
GOM_TRA_1PNPDE20040501_020910_000000522026_00261_11337_0031.N1	01-MAY-2004 02:09:10	Twilight	51.500	4	Alp1Cen	-0.010000	5800.0	103	11337	No
GOM_TRA_1PNPDE20040501_021042_000000442026_00261_11337_0032.N1	01-MAY-2004 02:10:42	Twilight	44.000	20	Bet Cru	1.2530	30000.	88	11337	No
GOM_TRA_1PNPDE20040501_021240_000000642026_00261_11337_0033.N1	01-MAY-2004 02:12:40	Bright	63.500	75	26Eps Sco	2.2910	4250.0	127	11337	No
GOM_TRA_1PNPDE20040501_021625_000000752026_00261_11337_0034.N1	01-MAY-2004 02:16:25	Bright	74.500	16	21Alp Sco	1.0200	3000.0	149	11337	No
GOM_TRA_1PNPDE20040501_022145_000000472026_00261_11337_0000.N1	01-MAY-2004 02:21:45	Bright	46.500	122	9Alp2Lib	2.7470	9700.0	93	11337	No
GOM_TRA_1PNPDE20040501_022405_000000502026_00261_11337_0001.N1	01-MAY-2004 02:24:05	Bright	49.500	104	27Bet Lib	2.6140	13100.	99	11337	No

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



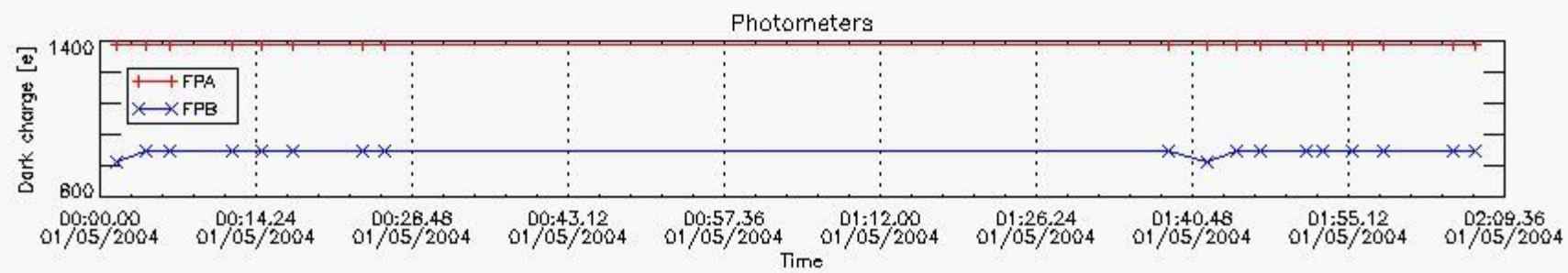
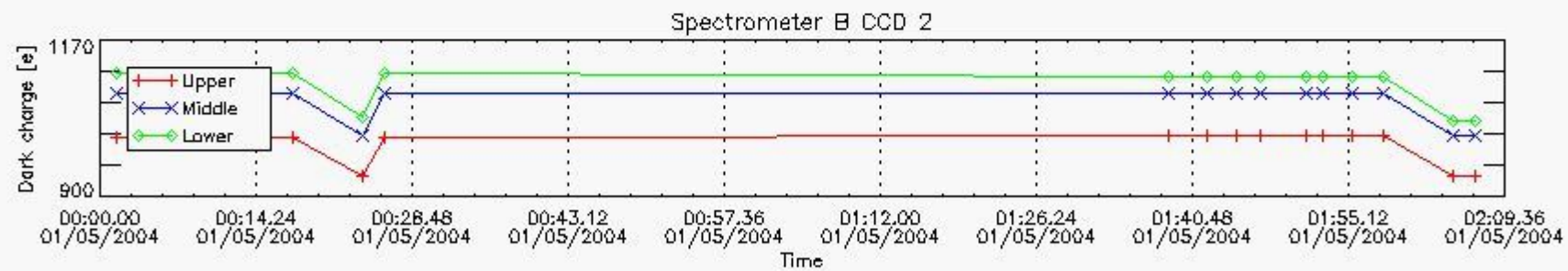
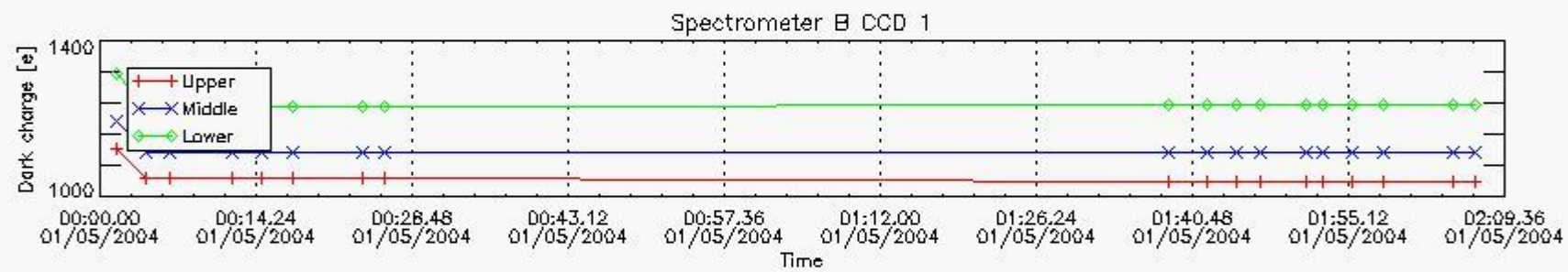
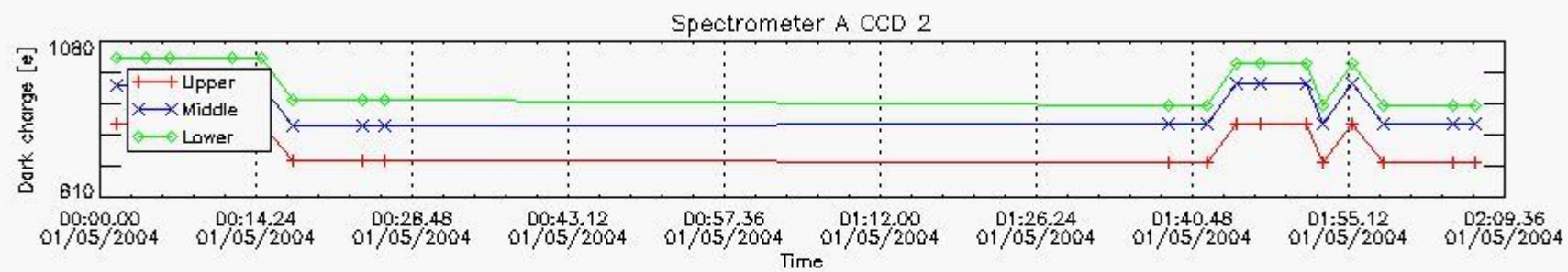
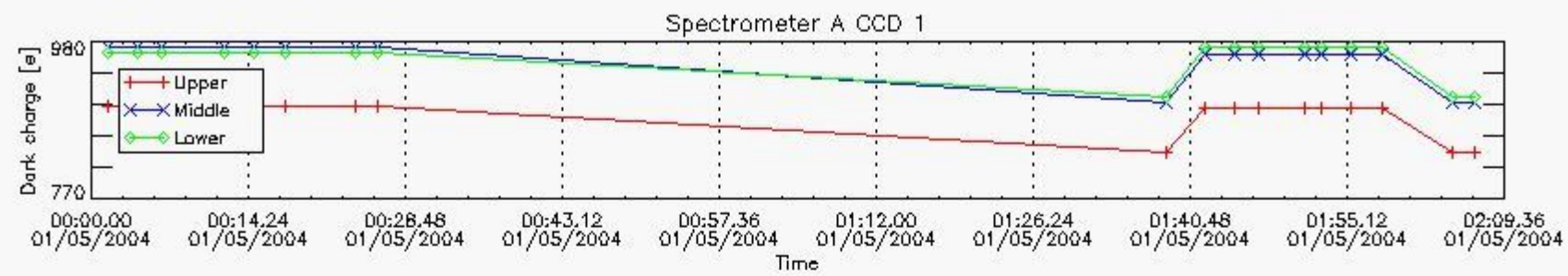
4. Overview of dark signal processing per product

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



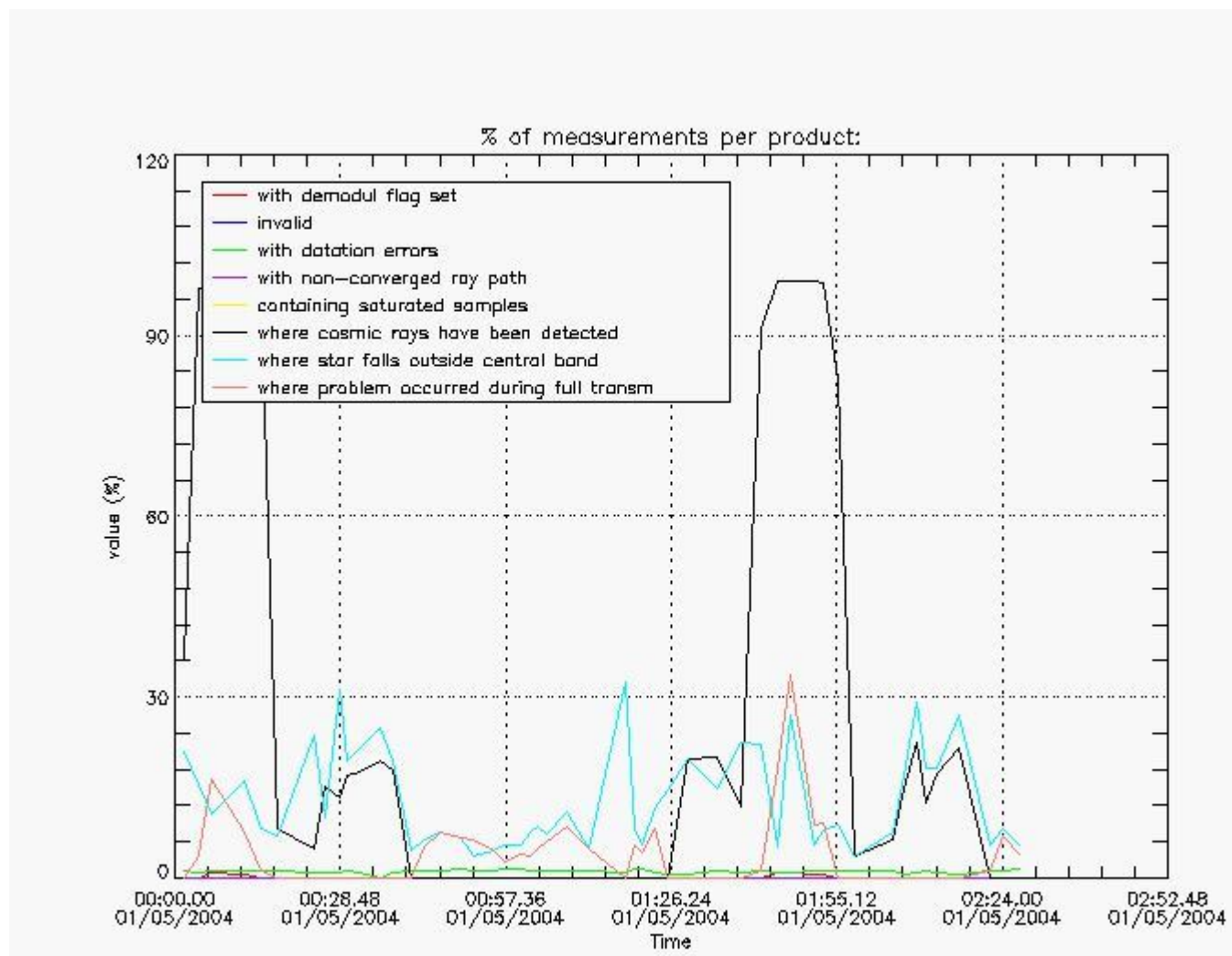
5. Demodulation flag and quality information monitoring

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.

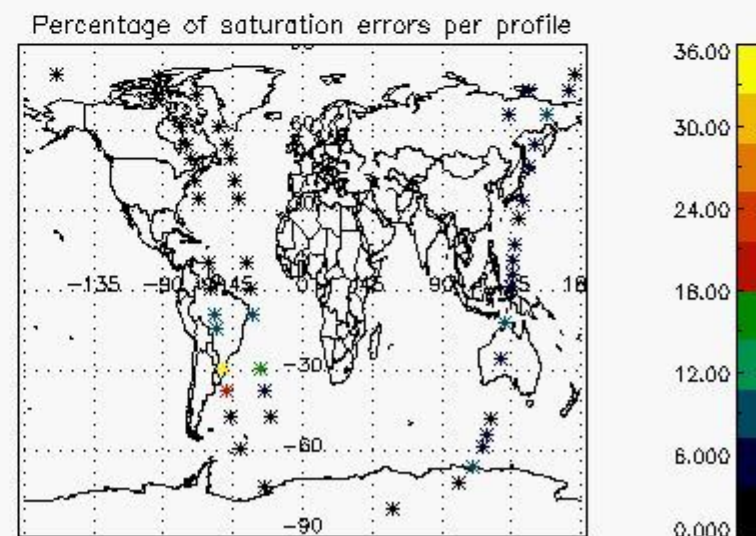
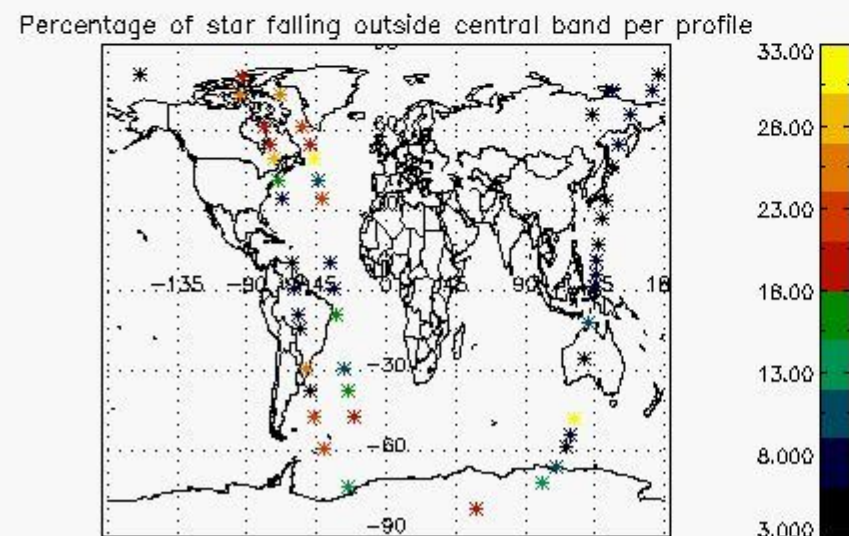
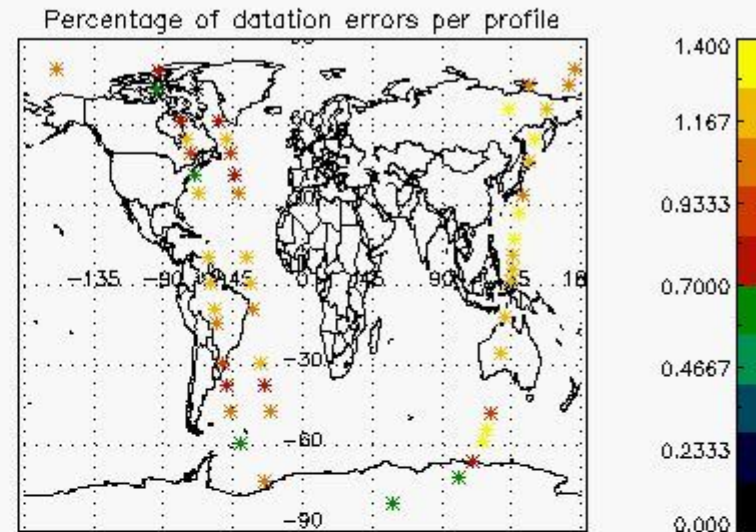
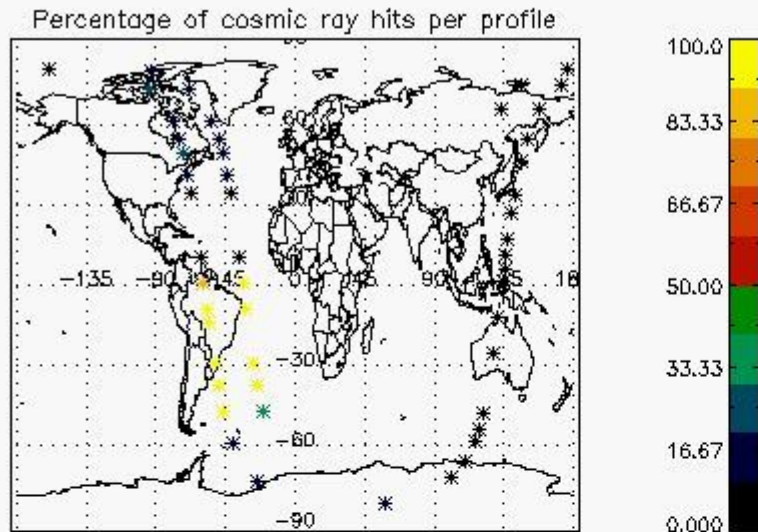
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.0000 %
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)



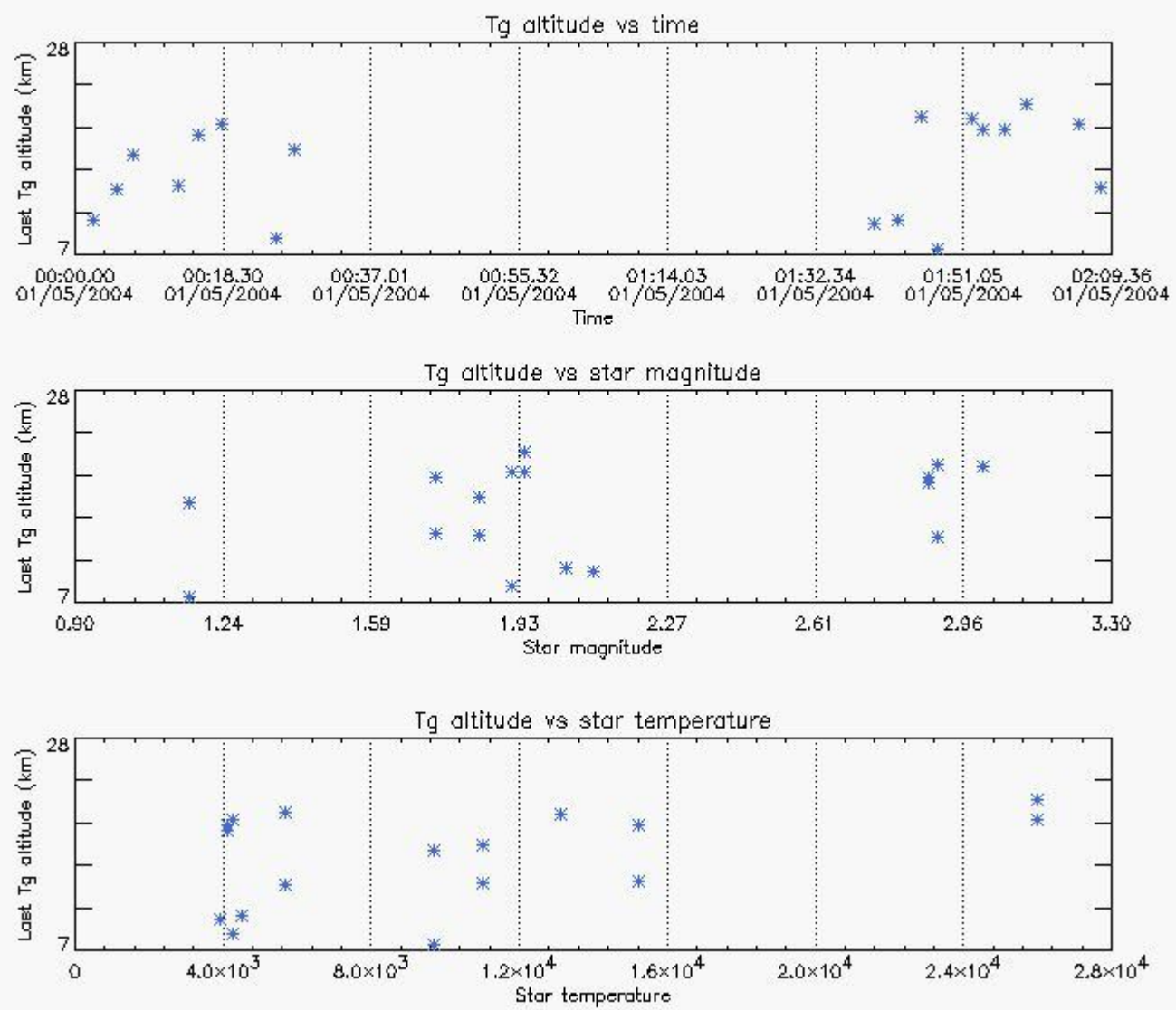
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.688	18.082	10.876
St. deviation:	4.7155	5.1031	3.8997
Maximum:	21.816	23.551	14.251
Minimum:	7.5053	5.7941	4.6602
Number of data:	18.000	25.000	7.0000

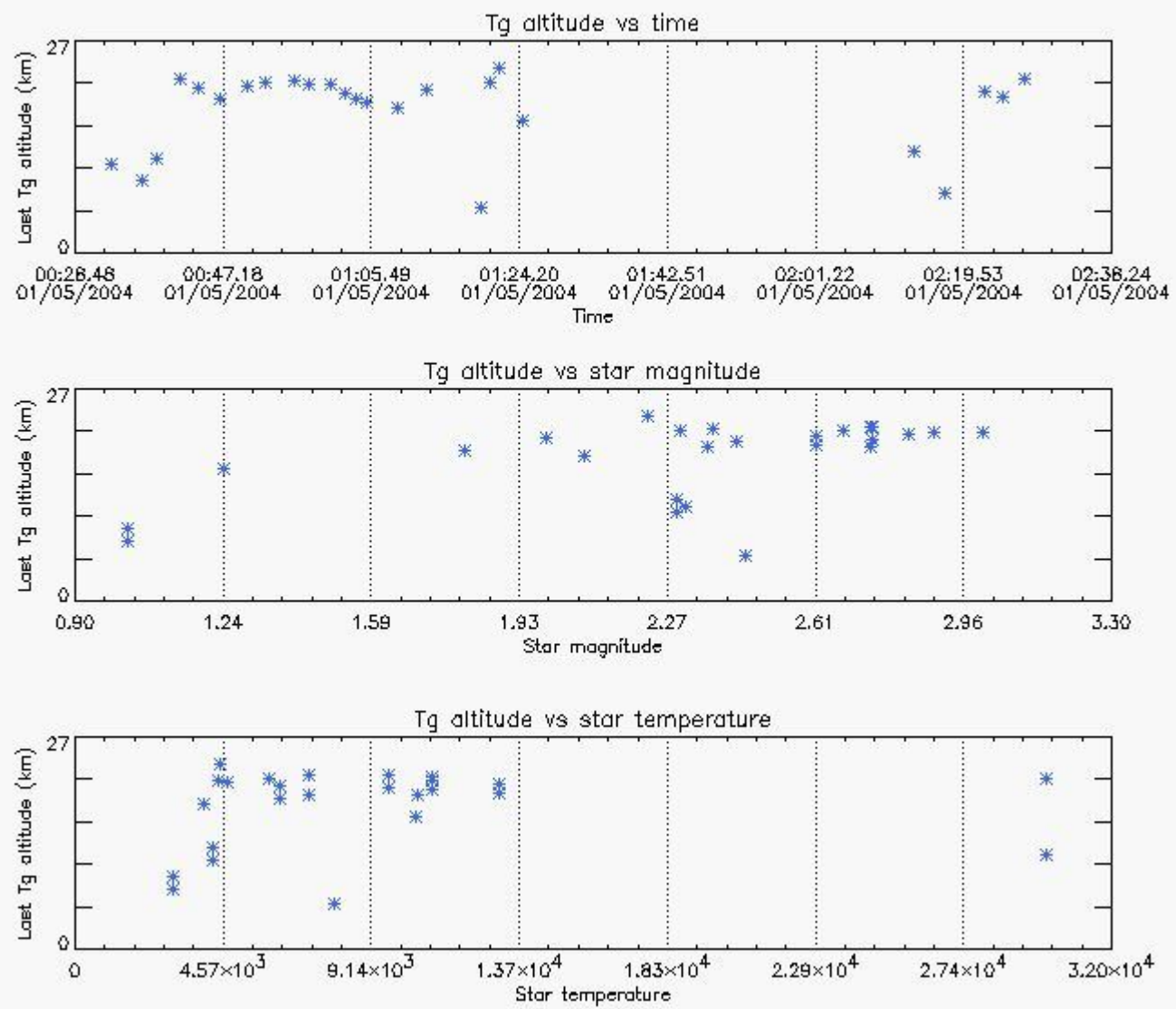
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



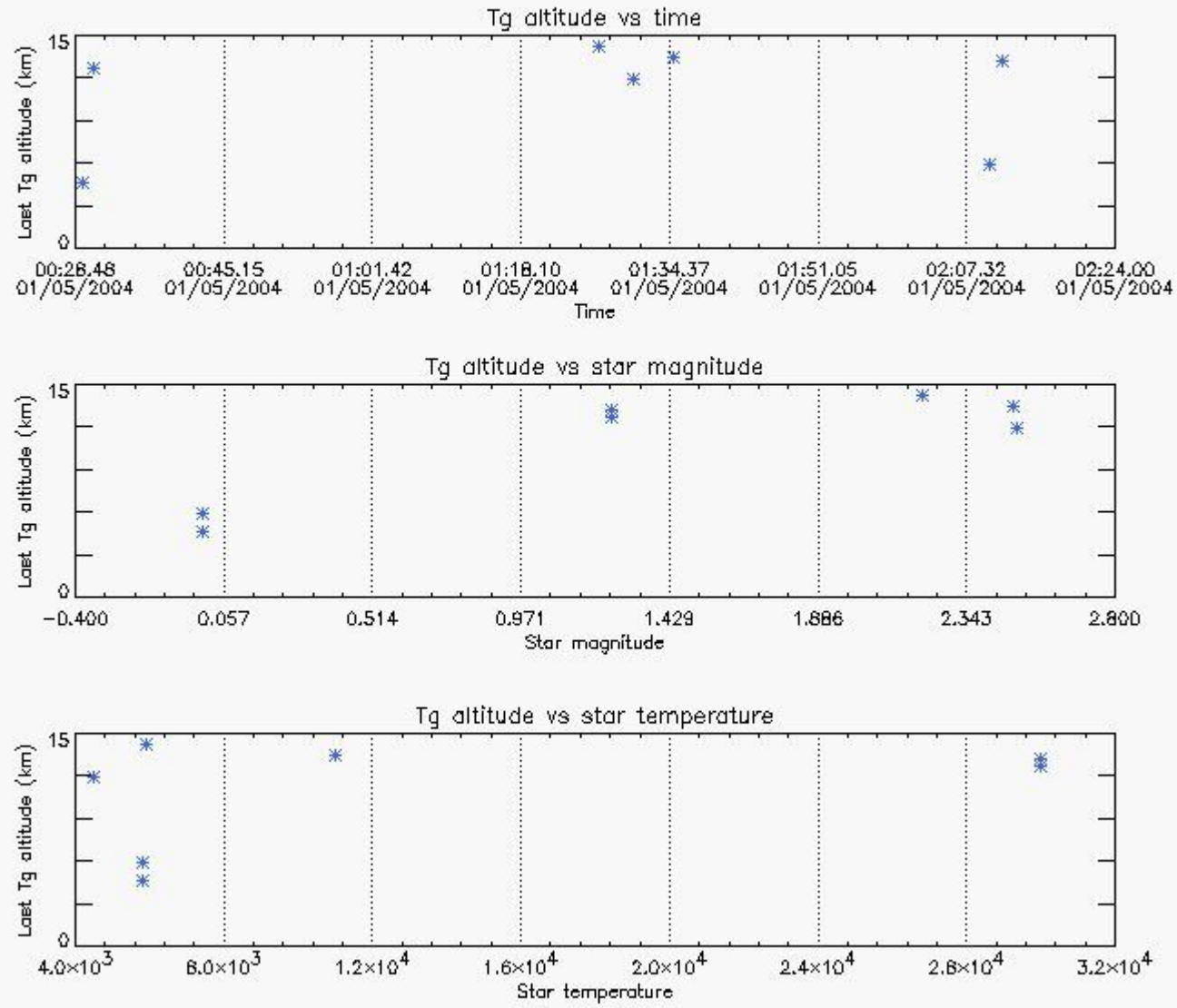
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

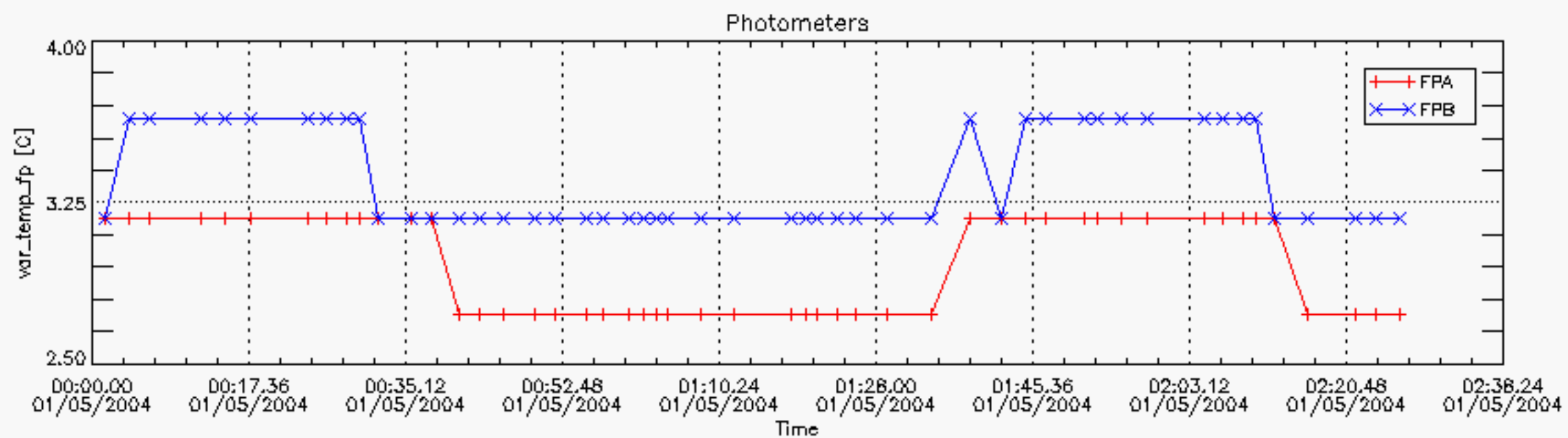
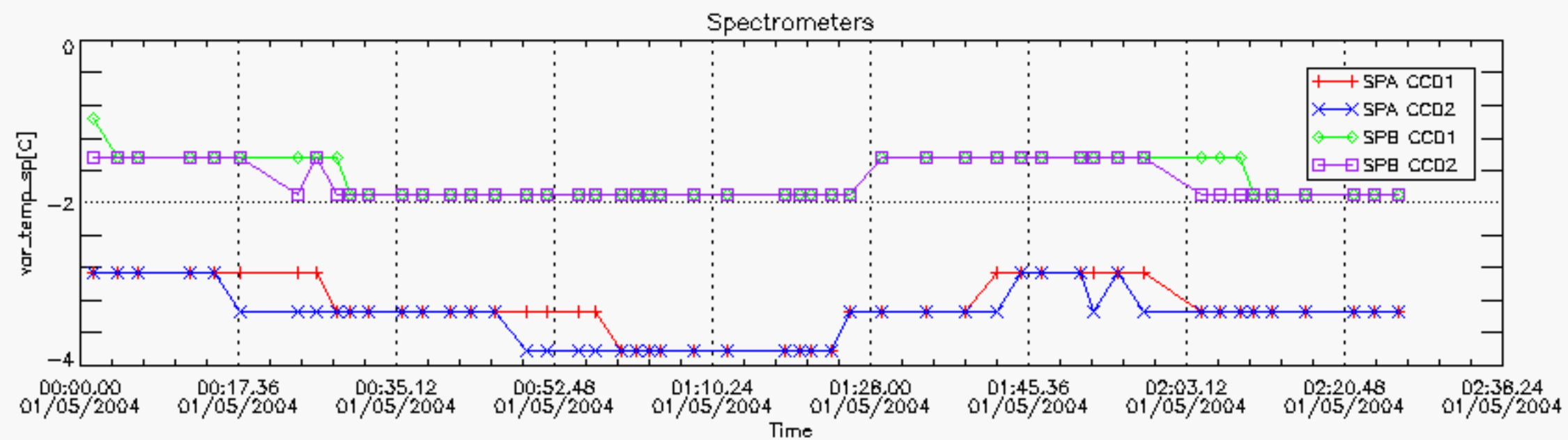
Tangent altitude at which the star is lost

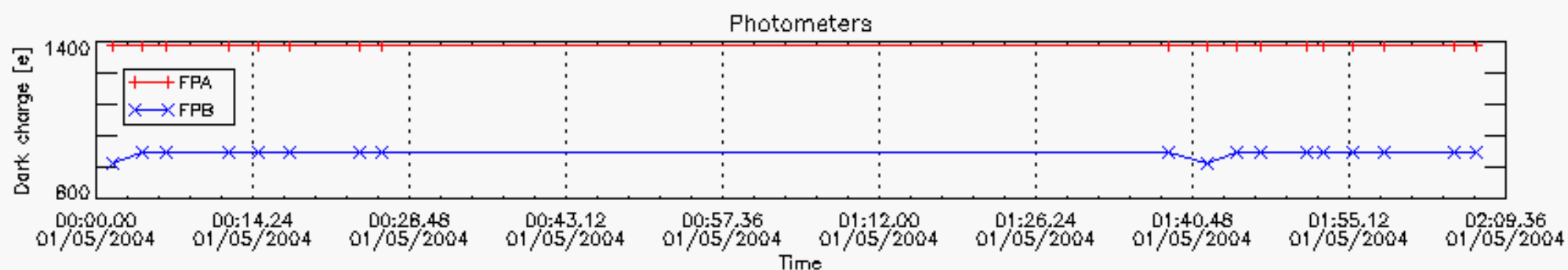
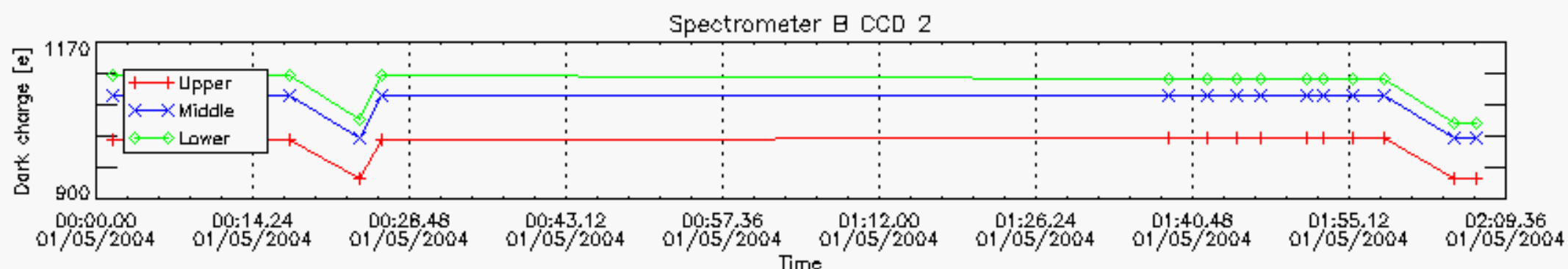
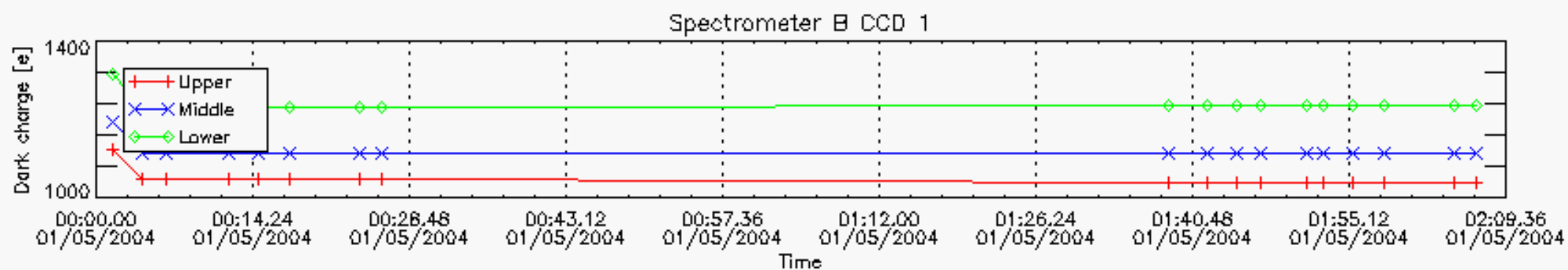
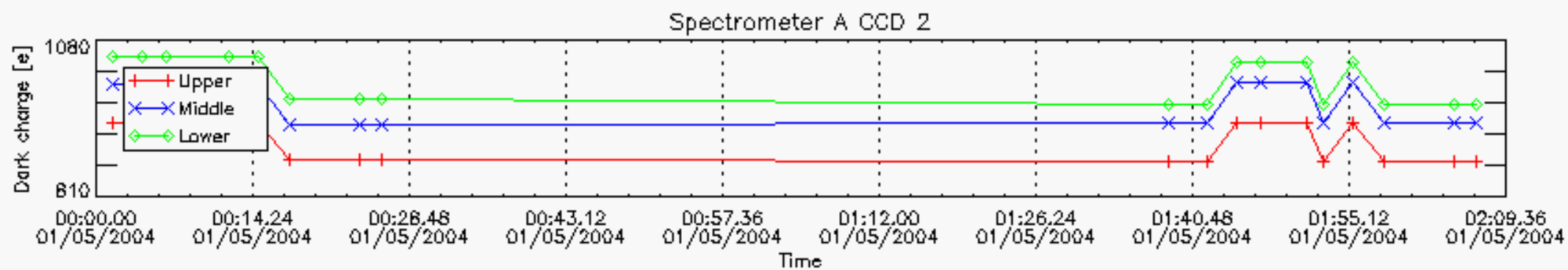
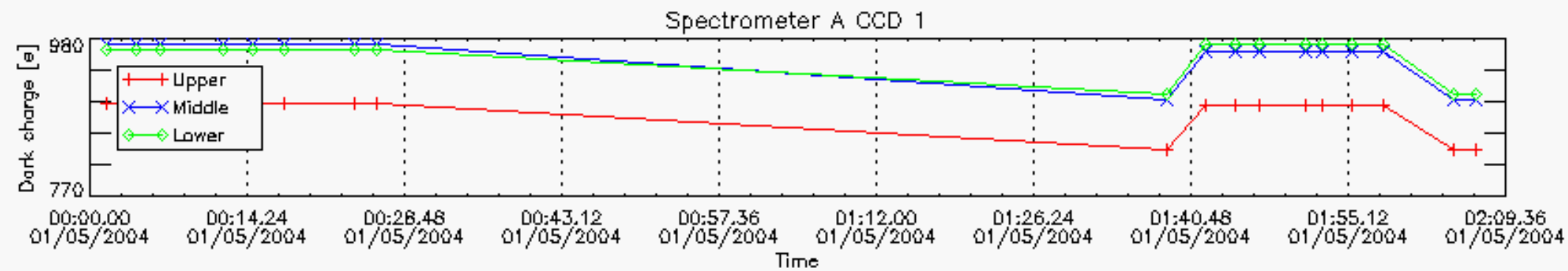


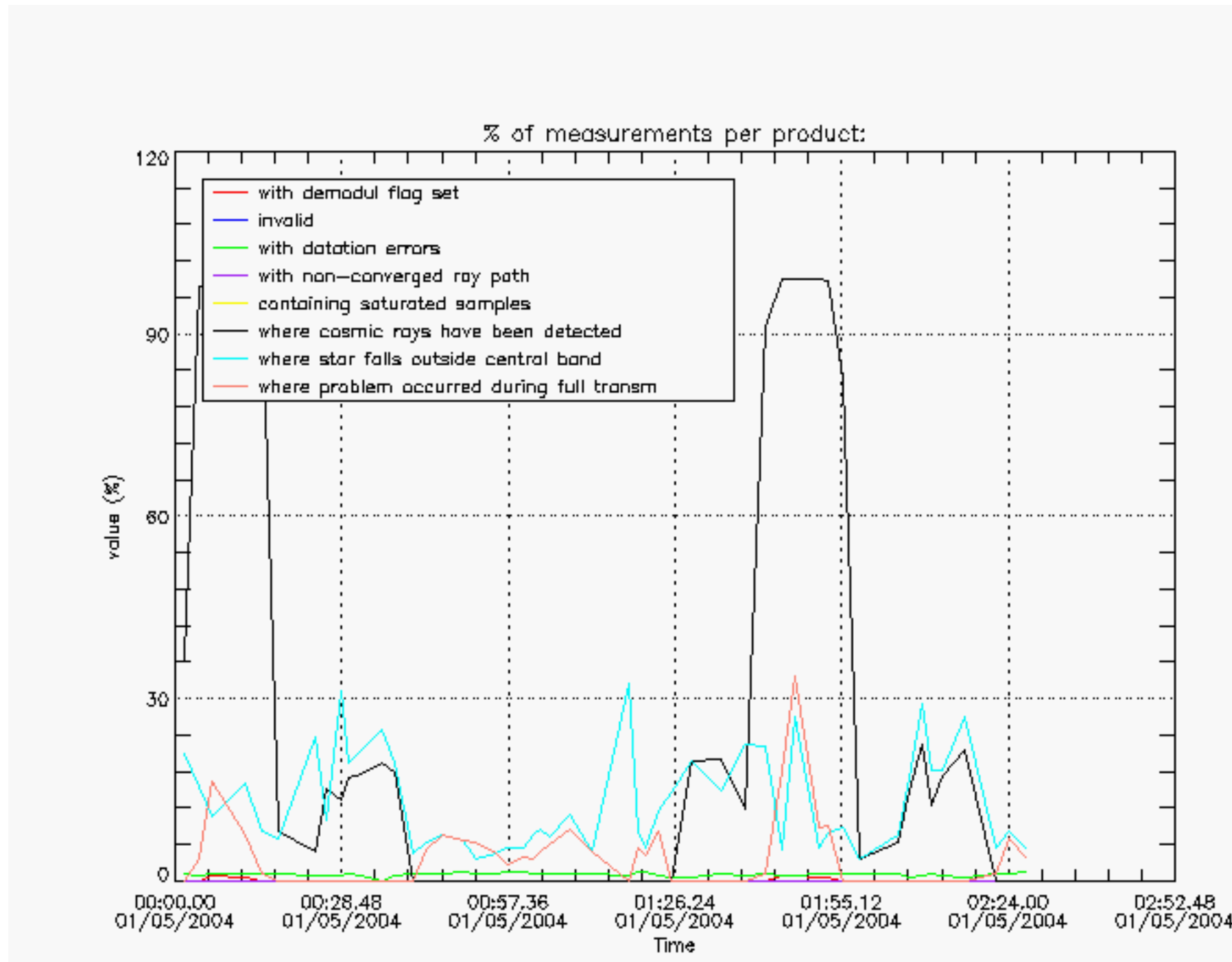
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

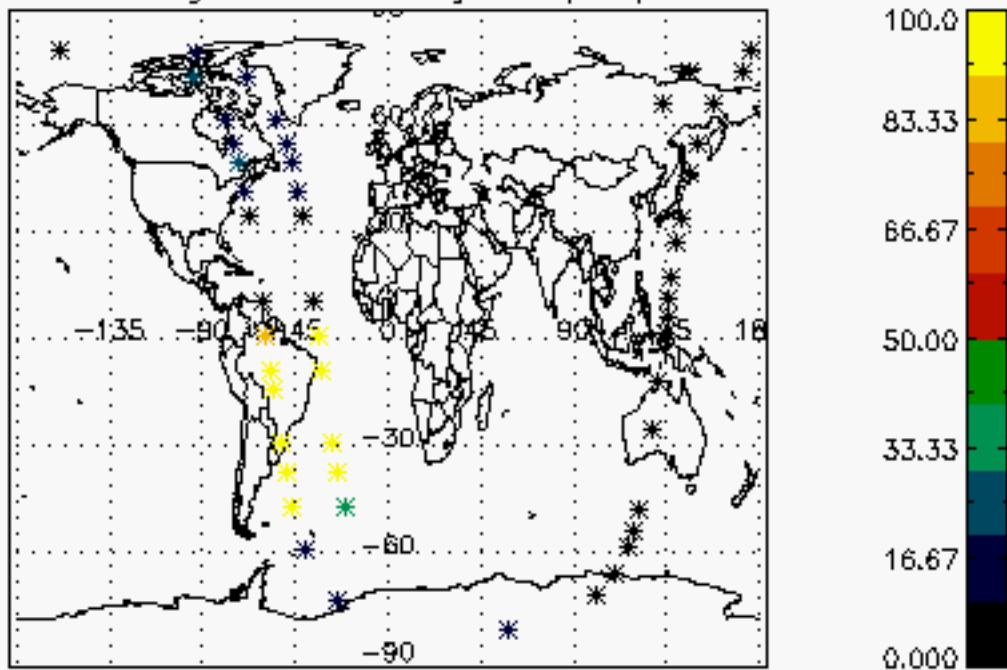
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.2	1447.3	1461.5	1447.7
St. deviation:	4.6886	5.4496	7.0607	7.6817
Maximum:	1545.0	1603.0	1508.0	1499.0
Minimum:	1448.0	1432.0	1430.0	1416.0
Number of data:	24550.	24550.	31550.	31550.



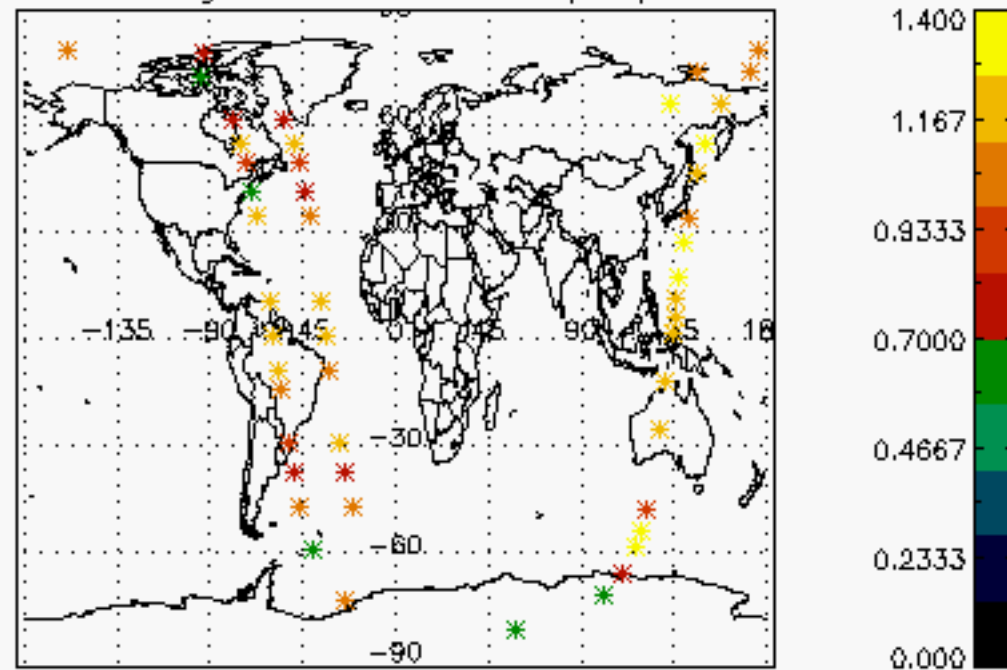




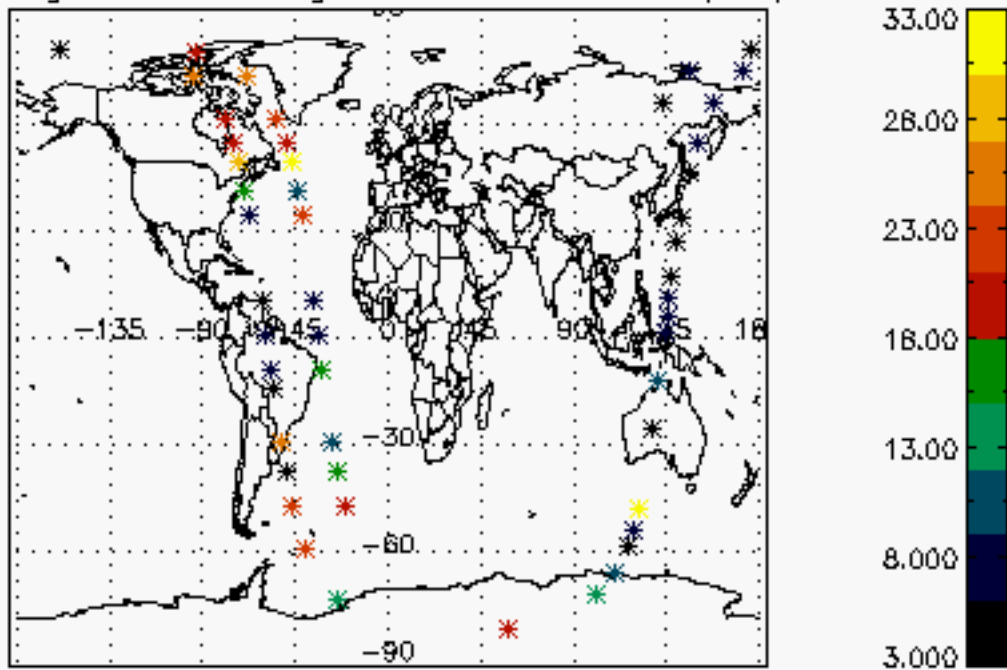
Percentage of cosmic ray hits per profile



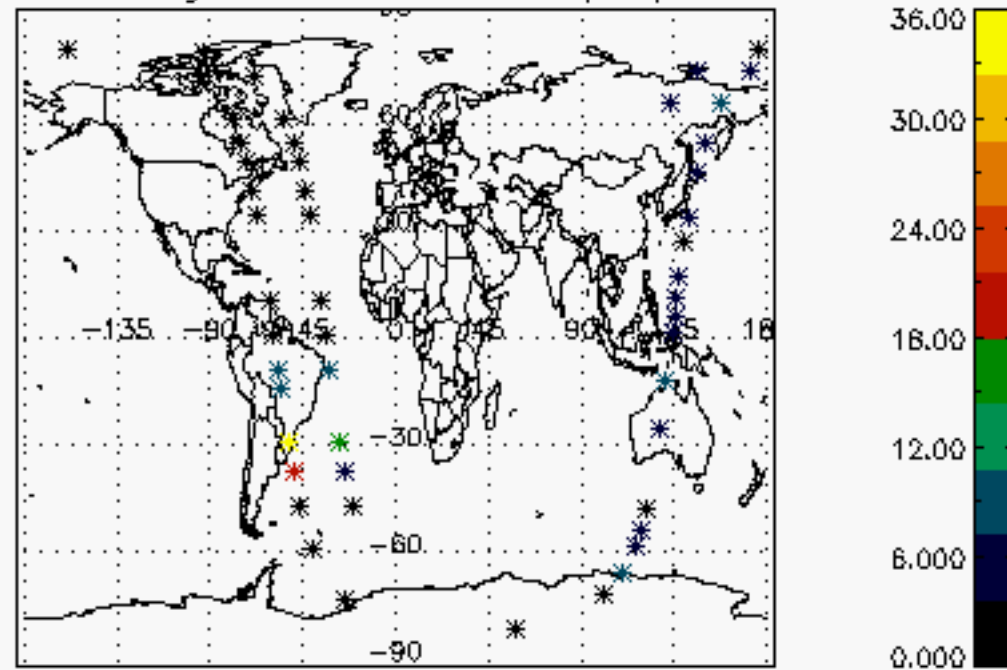
Percentage of datation errors per profile



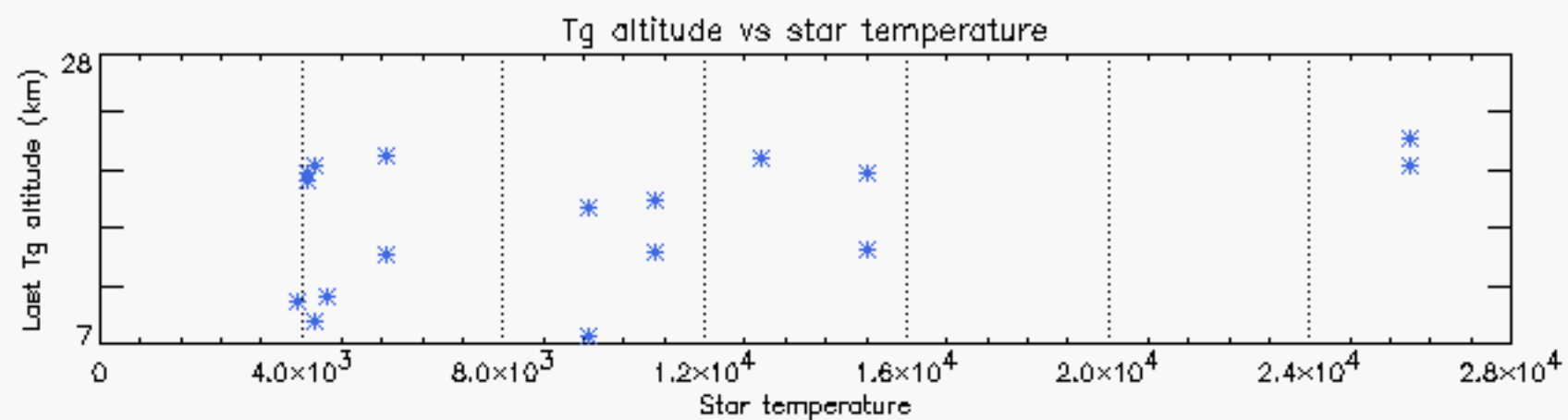
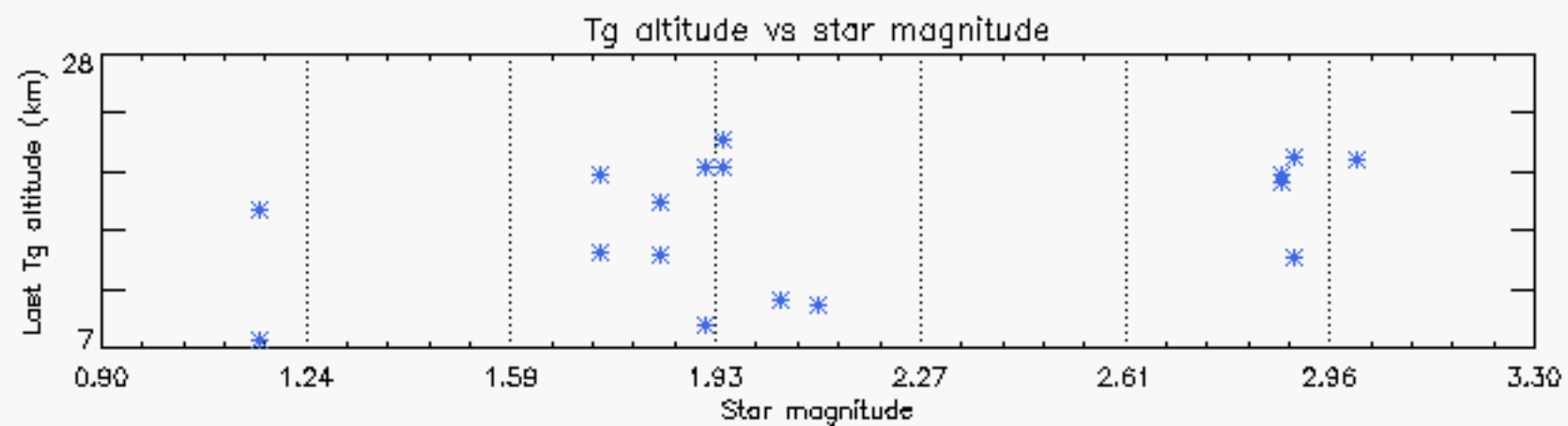
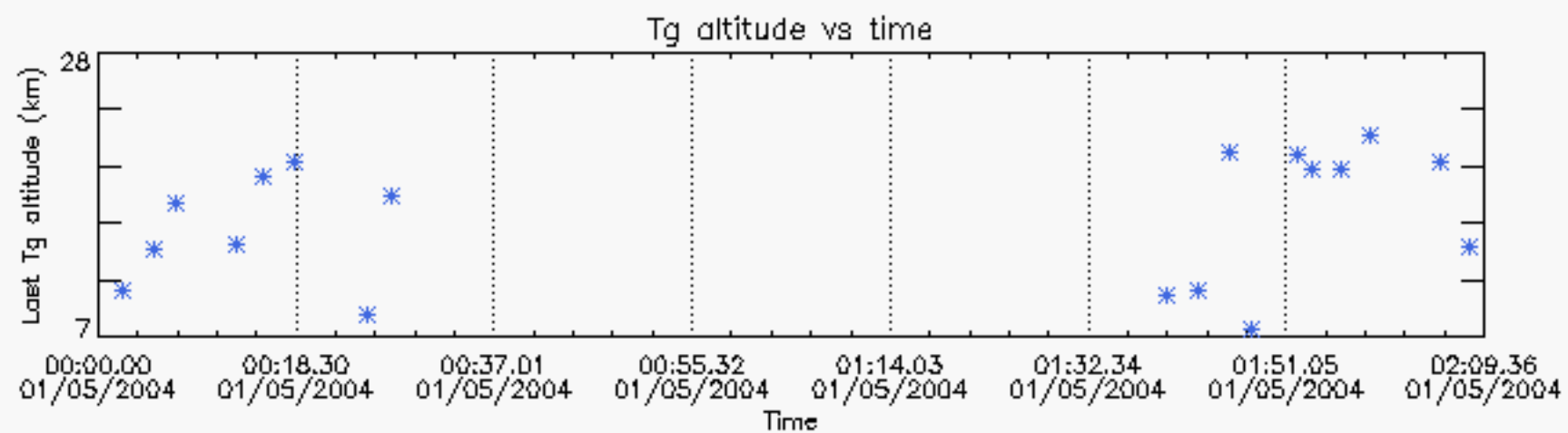
Percentage of star falling outside central band per profile



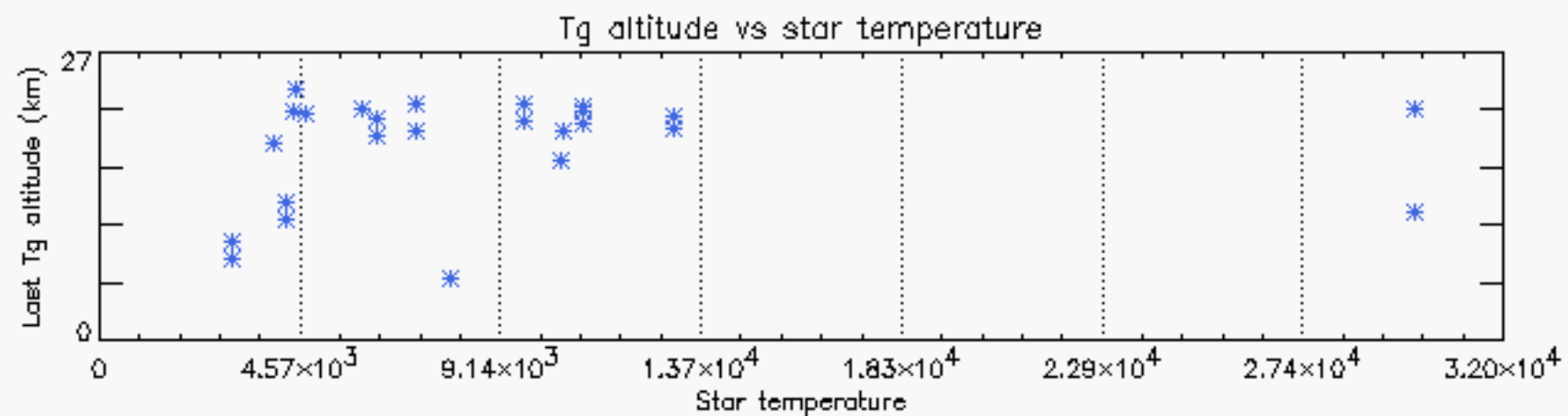
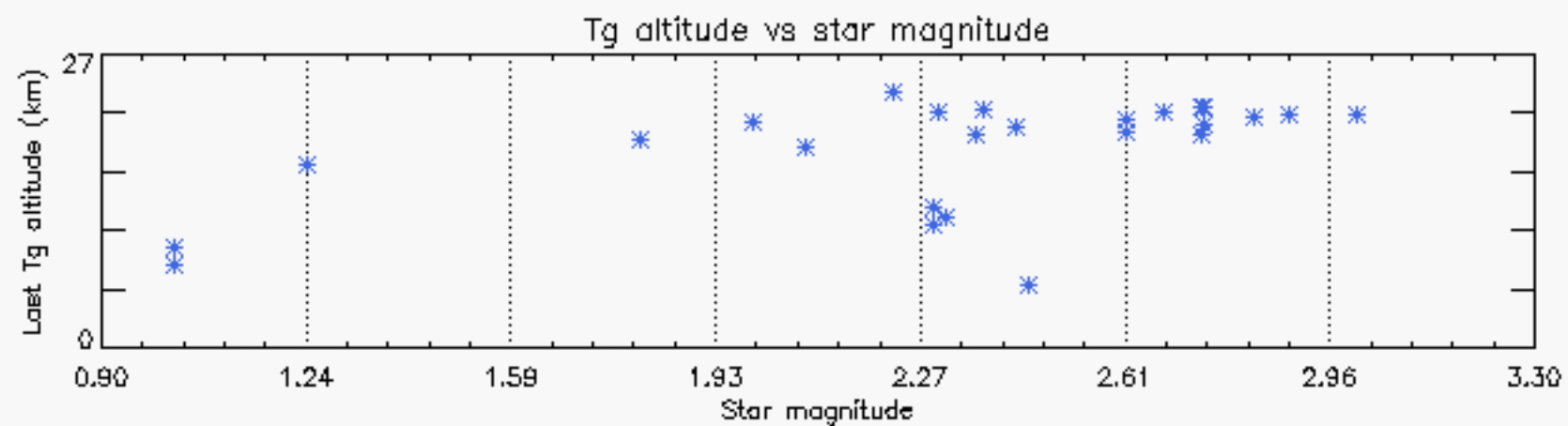
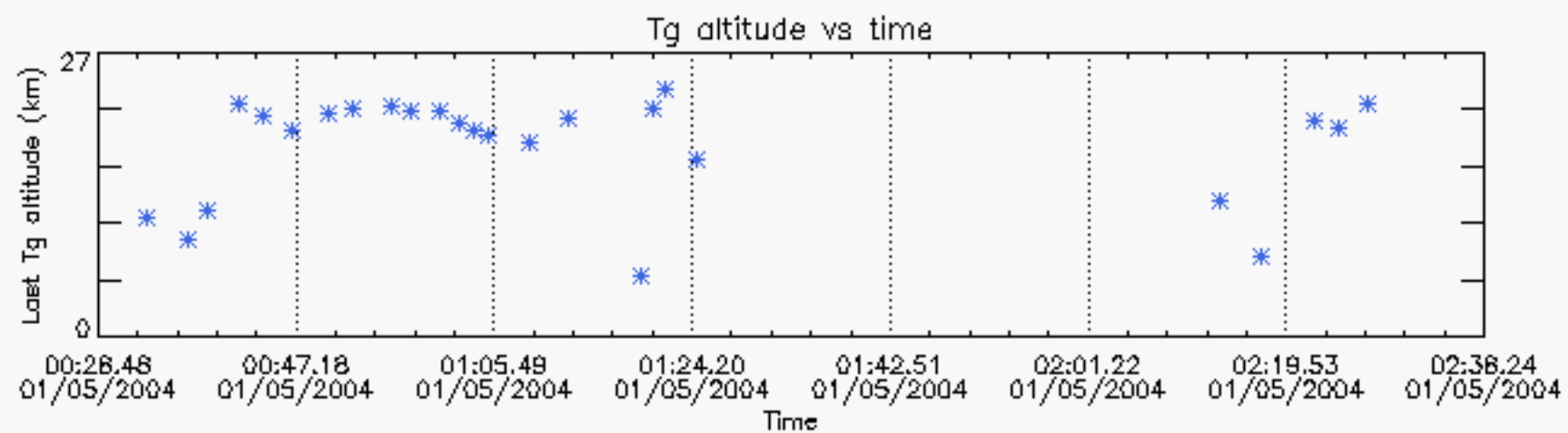
Percentage of saturation errors per profile



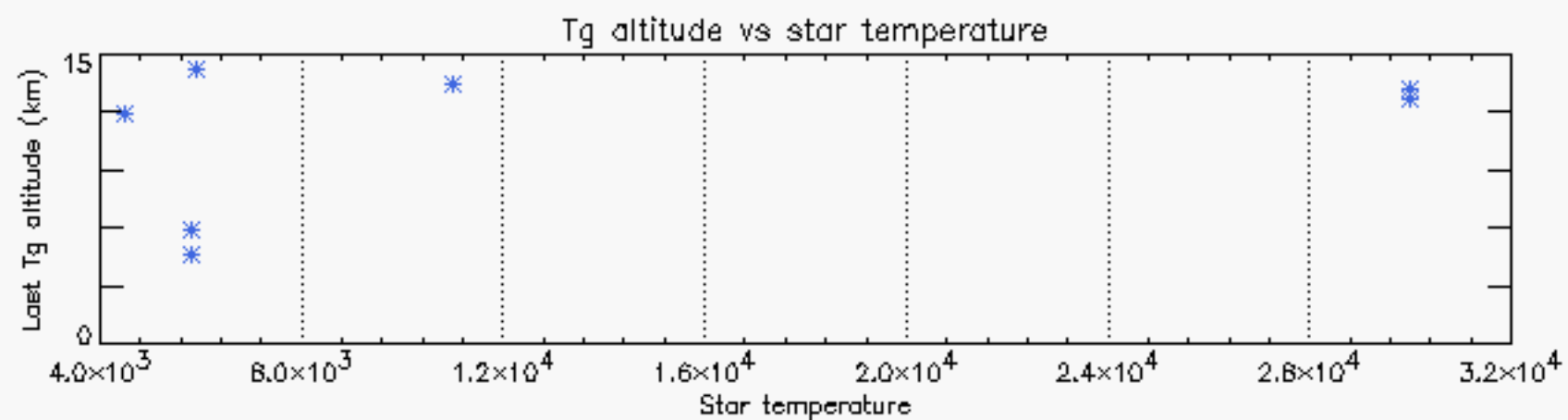
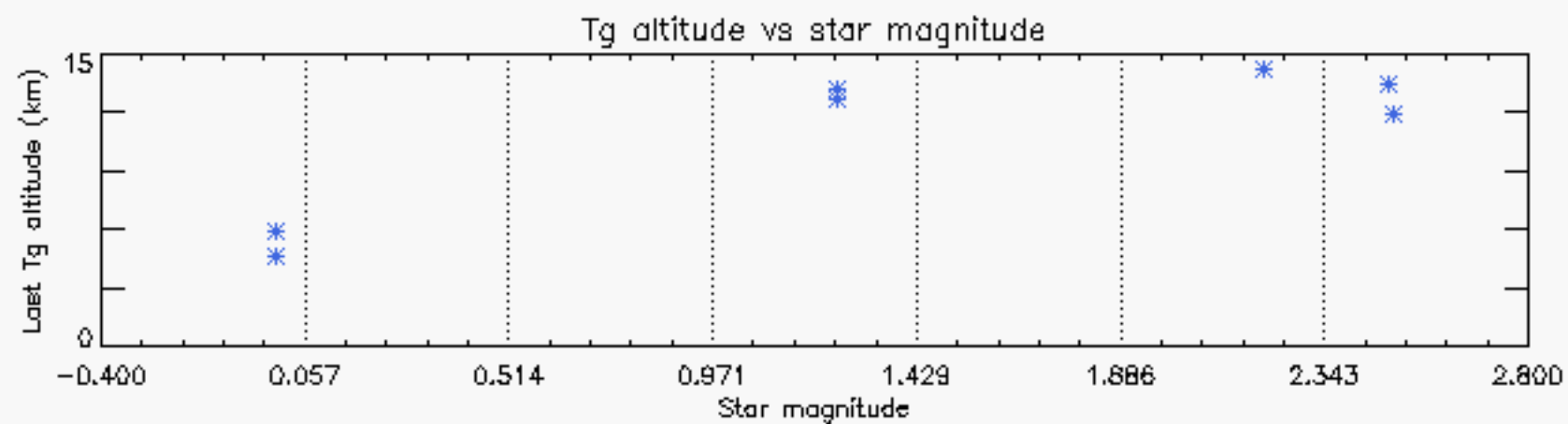
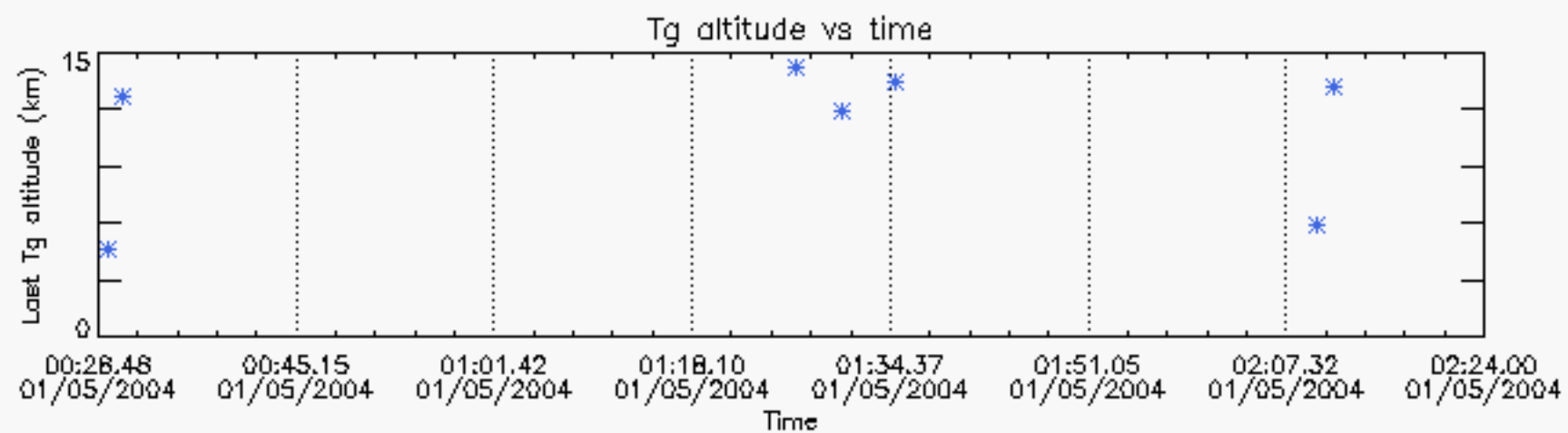
Tangent altitude at which the star is lost



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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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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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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23;-699.2; 24-MAY-2004 16:26:07; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;11674
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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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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
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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
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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
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
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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
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