

GOMOS Daily Report 10-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	12MAY2004 03:55:37
Data source version	GOMOS/4.02
Start time of products	10-MAY-2004 (10MAY2004 00:00:00)
Stop time of products	11-MAY-2004 (11MAY2004 00:00:00)

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

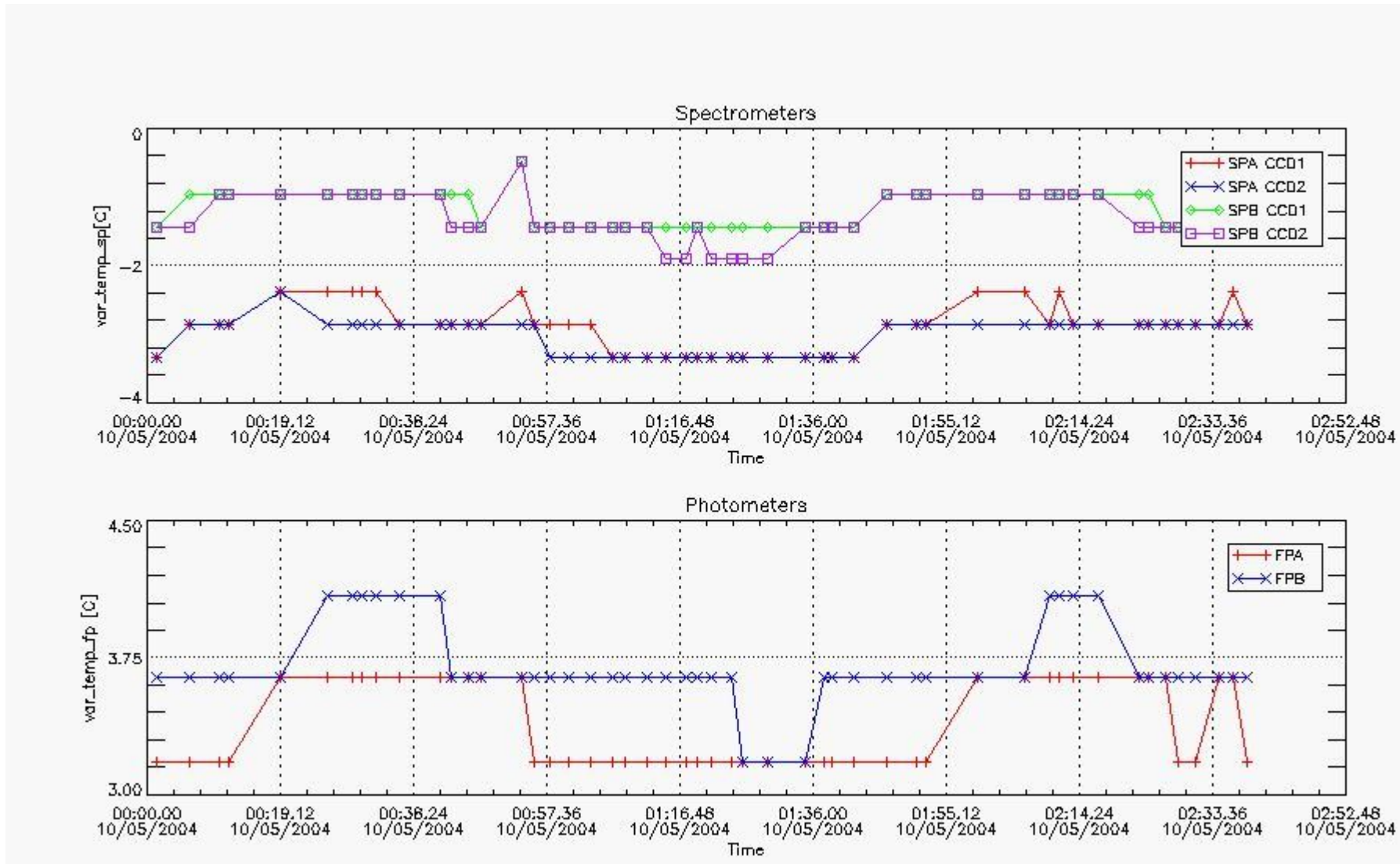
2. Summary of products arrived in PCF

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_1PNPDE20040510_000115_000000922026_00388_11464_0019.N1	10-MAY-2004 00:01:15	Twilight	92.000	66	37Gam Cyg	2.2080	5900.0	184	11464	No
GOM_TRA_1PNPDE20040510_000602_000001162026_00388_11464_0020.N1	10-MAY-2004 00:06:02	Twilight	116.00	92	53Eps Cyg	2.5000	4500.0	232	11464	No
GOM_TRA_1PNPDE20040510_001022_000000432026_00388_11464_0021.N1	10-MAY-2004 00:10:22	Twilight	42.500	140	88Gam Peg	2.8340	26000.	85	11464	No
GOM_TRA_1PNPDE20040510_001143_000000542026_00388_11464_0022.N1	10-MAY-2004 00:11:43	Twilight	53.500	90	54Alp Peg	2.4870	11000.	107	11464	No
GOM_TRA_1PNPDE20040510_001905_000000462026_00388_11464_0023.N1	10-MAY-2004 00:19:05	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	11464	No
GOM_TRA_1PNPDE20040510_002555_000000422026_00388_11464_0024.N1	10-MAY-2004 00:25:55	Dark	41.500	84	Alp Phe	2.3970	4500.0	83	11464	No
GOM_TRA_1PNPDE20040510_002932_000000482026_00388_11464_0025.N1	10-MAY-2004 00:29:32	Dark	48.000	63	Bet Gru	2.1500	2800.0	96	11464	No
GOM_TRA_1PNPDE20040510_003050_000000452026_00388_11464_0026.N1	10-MAY-2004 00:30:50	Dark	44.500	31	Alp Gru	1.7340	15200.	89	11464	No
GOM_TRA_1PNPDE20040510_003257_000000472026_00389_11465_0027.N1	10-MAY-2004 00:32:57	Dark	46.500	148	Alp Tuc	2.8780	4100.0	93	11465	No
GOM_TRA_1PNPDE20040510_003624_000000462026_00389_11465_0028.N1	10-MAY-2004 00:36:24	Dark	45.500	45	Alp Pav	1.9400	26000.	91	11465	No
GOM_TRA_1PNPDE20040510_004216_000000432026_00389_11465_0029.N1	10-MAY-2004 00:42:16	Dark	43.000	43	Alp TrA	1.9100	4250.0	86	11465	No
GOM_TRA_1PNPDE20040510_004349_000000422026_00389_11465_0030.N1	10-MAY-2004 00:43:49	Twilight	42.000	145	Gam TrA	2.8720	10600.	84	11465	No
GOM_TRA_1PNPDE20040510_004620_000000452026_00389_11465_0031.N1	10-MAY-2004 00:46:20	Twilight	44.500	4	Alp1Cen	-0.010000	5800.0	89	11465	No
GOM_TRA_1PNPDE20040510_004803_000000582026_00389_11465_0032.N1	10-MAY-2004 00:48:03	Bright	58.000	25	35Lam Sco	1.6200	28000.	116	11465	No
GOM_TRA_1PNPDE20040510_005358_000000652026_00389_11465_0000.N1	10-MAY-2004 00:53:58	Bright	64.500	16	21Alp Sco	1.0200	3000.0	129	11465	No
GOM_TRA_1PNPDE20040510_005552_000000632026_00389_11465_0001.N1	10-MAY-2004 00:55:52	Bright	62.500	80	7Del Sco	2.3160	30000.	125	11465	No
GOM_TRA_1PNPDE20040510_005803_000000722026_00389_11465_0002.N1	10-MAY-2004 00:58:03	Bright	71.500	86	35Eta Oph	2.4300	10200.	143	11465	No
GOM_TRA_1PNPDE20040510_010040_000000452026_00389_11465_0003.N1	10-MAY-2004 01:00:40	Bright	44.500	104	27Bet Lib	2.6140	13100.	89	11465	No
GOM_TRA_1PNPDE20040510_010359_000000372026_00389_11465_0004.N1	10-MAY-2004 01:03:59	Bright	37.000	121	29Gam Vir	2.7400	7200.0	74	11465	No
GOM_TRA_1PNPDE20040510_010707_000000382026_00389_11465_0005.N1	10-MAY-2004 01:07:07	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	11465	No
GOM_TRA_1PNPDE20040510_010857_000000372026_00389_11465_0006.N1	10-MAY-2004 01:08:57	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	11465	No
GOM_TRA_1PNPDE20040510_011158_000000432026_00389_11465_0007.N1	10-MAY-2004 01:11:58	Bright	42.500	83		2.3780	11000.	85	11465	No
GOM_TRA_1PNPDE20040510_011443_000000382026_00389_11465_0008.N1	10-MAY-2004 01:14:43	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11465	No
GOM_TRA_1PNPDE20040510_011745_000000382026_00389_11465_0009.N1	10-MAY-2004 01:17:45	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	11465	No
GOM_TRA_1PNPDE20040510_011916_000000372026_00389_11465_0010.N1	10-MAY-2004 01:19:16	Bright	37.000	55	79Zet UMa	2.0600	10200.	74	11465	No
GOM_TRA_1PNPDE20040510_012118_000000392026_00389_11465_0011.N1	10-MAY-2004 01:21:18	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	11465	No
GOM_TRA_1PNPDE20040510_012409_000000432026_00389_11465_0012.N1	10-MAY-2004 01:24:09	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	11465	No
GOM_TRA_1PNPDE20040510_012553_000000552026_00389_11465_0013.N1	10-MAY-2004 01:25:53	Bright	55.000	130	23Bet Dra	2.7990	5800.0	110	11465	No
GOM_TRA_1PNPDE20040510_012921_000000352026_00389_11465_0014.N1	10-MAY-2004 01:29:21	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	11465	No
GOM_TRA_1PNPDE20040510_013458_000000442026_00389_11465_0015.N1	10-MAY-2004 01:34:58	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	11465	No
GOM_TRA_1PNPDE20040510_013731_000000522026_00389_11465_0016.N1	10-MAY-2004 01:37:31	Bright	52.000	76	27Gam Cas	2.3000	30000.	104	11465	No
GOM_TRA_1PNPDE20040510_013845_000000382026_00389_11465_0017.N1	10-MAY-2004 01:38:45	Bright	38.000	68	18Alp Cas	2.2250	4500.0	76	11465	No
GOM_TRA_1PNPDE20040510_014150_000000932026_00389_11465_0018.N1	10-MAY-2004 01:41:50	Twilight	92.500	66	37Gam Cyg	2.2080	5900.0	185	11465	No
GOM_TRA_1PNPDE20040510_014638_000001152026_00389_11465_0019.N1	10-MAY-2004 01:46:38	Twilight	114.50	92	53Eps Cyg	2.5000	4500.0	229	11465	No
GOM_TRA_1PNPDE20040510_015058_000000432026_00389_11465_0020.N1	10-MAY-2004 01:50:58	Twilight	42.500	140	88Gam Peg	2.8340	26000.	85	11465	No
GOM_TRA_1PNPDE20040510_015220_000000532026_00389_11465_0021.N1	10-MAY-2004 01:52:20	Twilight	52.500	90	54Alp Peg	2.4870	11000.	105	11465	No
GOM_TRA_1PNPDE20040510_015942_000000452026_00389_11465_0022.N1	10-MAY-2004 01:59:42	Dark	45.000	52	16Bet Cet	2.0370	4500.0	90	11465	No
GOM_TRA_1PNPDE20040510_020631_000000442026_00389_11465_0023.N1	10-MAY-2004 02:06:31	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	11465	No
GOM_TRA_1PNPDE20040510_021008_000000482026_00389_11465_0024.N1	10-MAY-2004 02:10:08	Dark	48.000	63	Bet Gru	2.1500	2800.0	96	11465	No
GOM_TRA_1PNPDE20040510_021127_000000452026_00389_11465_0025.N1	10-MAY-2004 02:11:27	Dark	45.000	31	Alp Gru	1.7340	15200.	90	11465	No
GOM_TRA_1PNPDE20040510_021332_000000442026_00390_11466_0026.N1	10-MAY-2004 02:13:32	Dark	43.500	148	Alp Tuc	2.8780	4100.0	87	11466	No
GOM_TRA_1PNPDE20040510_021700_000000472026_00390_11466_0027.N1	10-MAY-2004 02:17:00	Dark	46.500	45	Alp Pav	1.9400	26000.	93	11466	No
GOM_TRA_1PNPDE20040510_022254_000000442026_00390_11466_0028.N1	10-MAY-2004 02:22:54	Dark	43.500	43	Alp TrA	1.9100	4250.0	87	11466	No
GOM_TRA_1PNPDE20040510_022426_000000402026_00390_11466_0029.N1	10-MAY-2004 02:24:26	Twilight	39.500	145	Gam TrA	2.8720	10600.	79	11466	No
GOM_TRA_1PNPDE20040510_022656_000000512026_00390_11466_0030.N1	10-MAY-2004 02:26:56	Twilight	51.000	4	Alp1Cen	-0.010000	5800.0	102	11466	No
GOM_TRA_1PNPDE20040510_022839_000000602026_00390_11466_0031.N1	10-MAY-2004 02:28:39	Bright	59.500	25	35Lam Sco	1.6200	28000.	119	11466	No
GOM_TRA_1PNPDE20040510_023105_000000402026_00390_11466_0032.N1	10-MAY-2004 02:31:05	Bright	39.500	95	Zet Cen	2.5450	26000.	79	11466	No
GOM_TRA_1PNPDE20040510_023434_000000702026_00390_11466_0033.N1	10-MAY-2004 02:34:34	Bright	69.500	16	21Alp Sco	1.0200	3000.0	139	11466	No
GOM_TRA_1PNPDE20040510_023628_000000562026_00390_11466_0000.N1	10-MAY-2004 02:36:28	Bright	55.500	80	7Del Sco	2.3160	30000.	111	11466	Yes

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



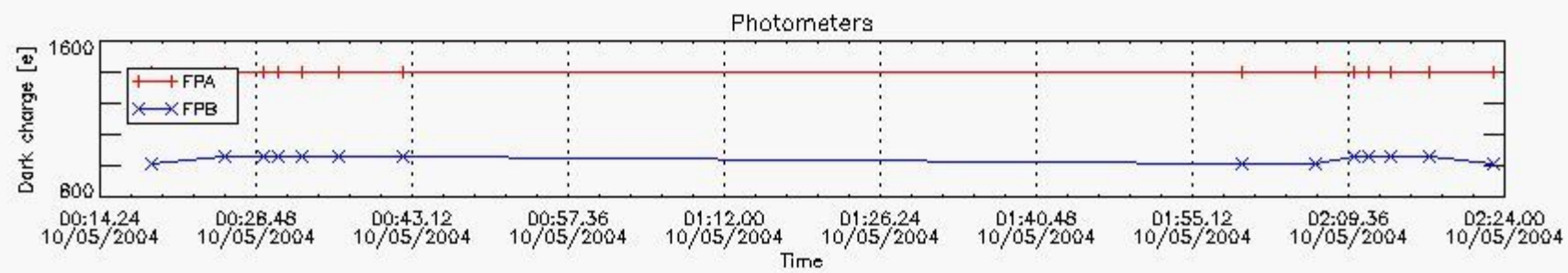
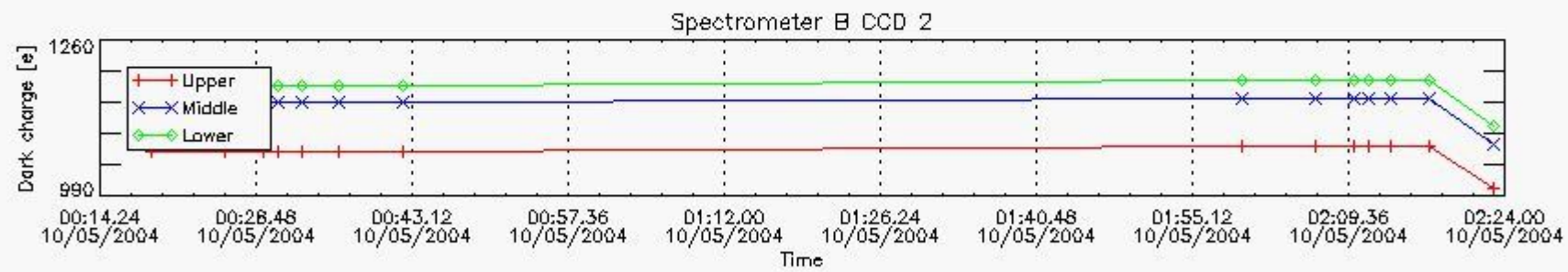
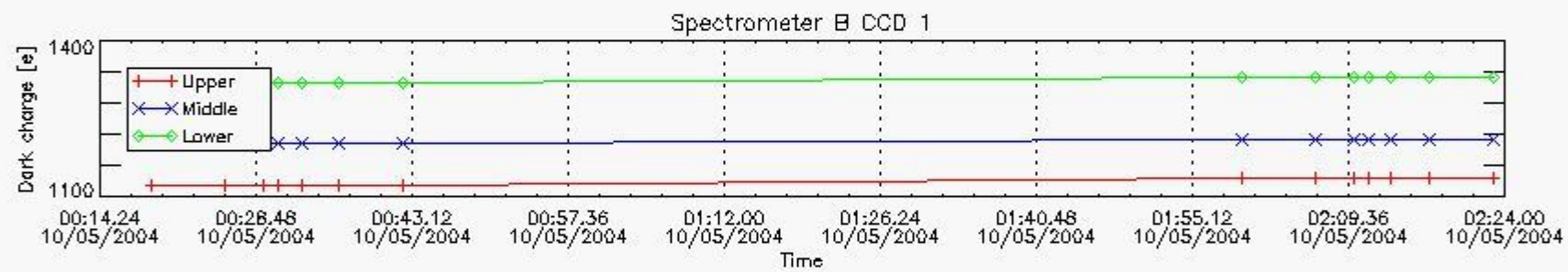
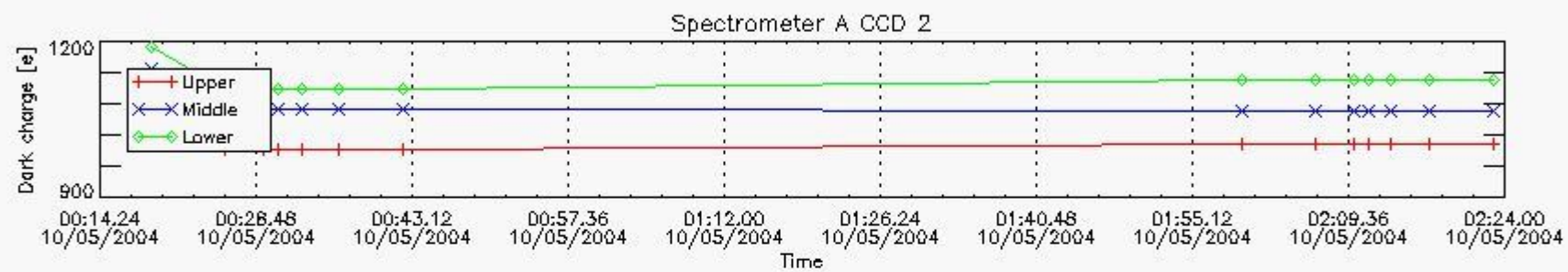
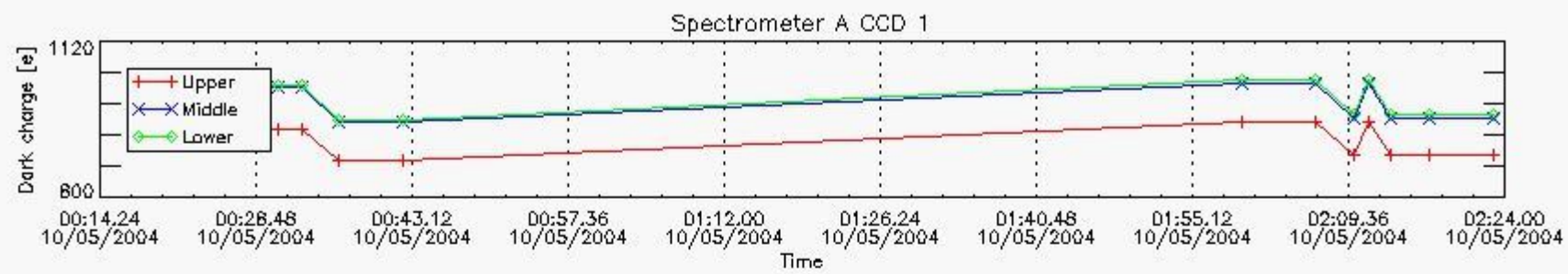
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



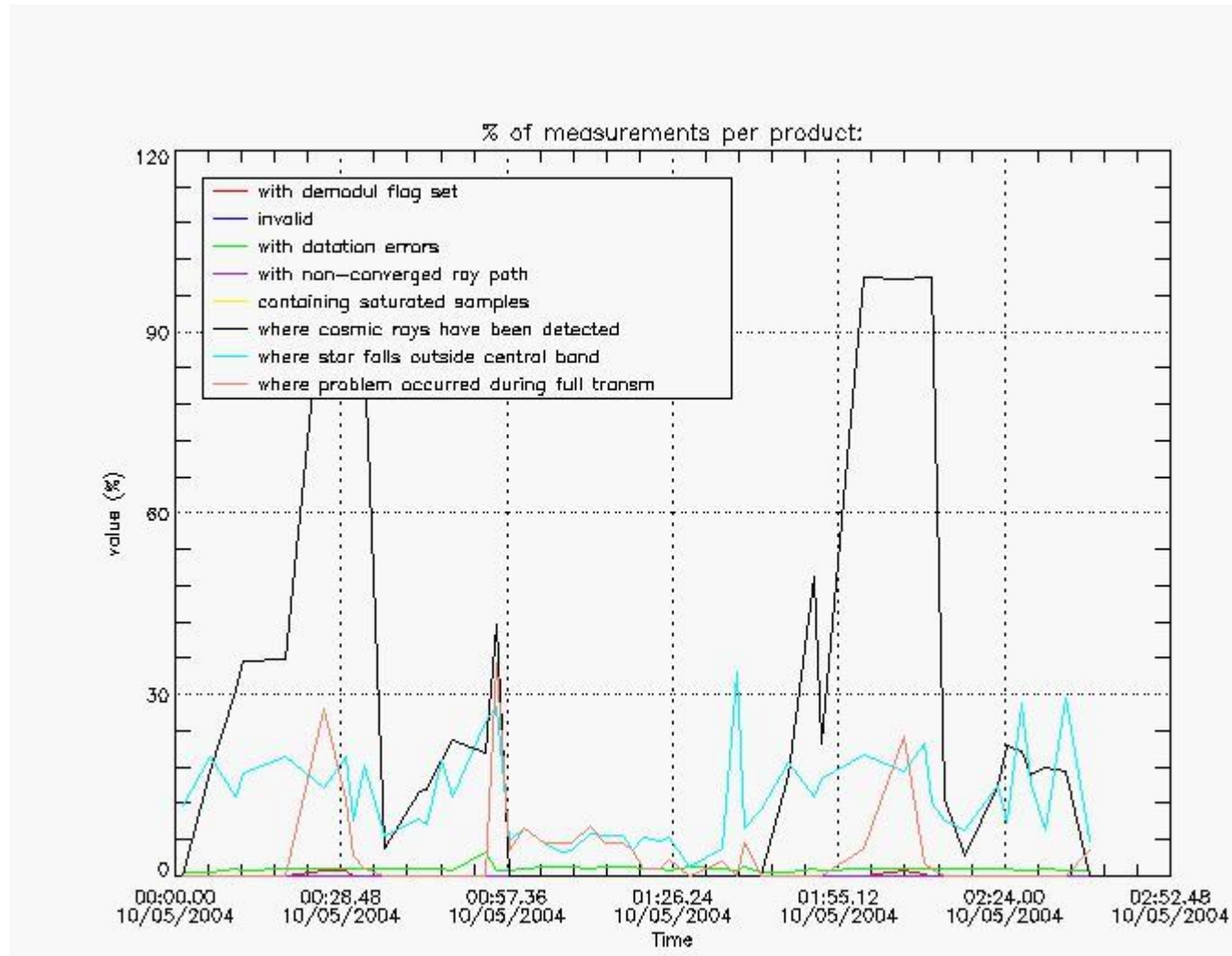
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

5.1 Percentage of products during reporting period with:

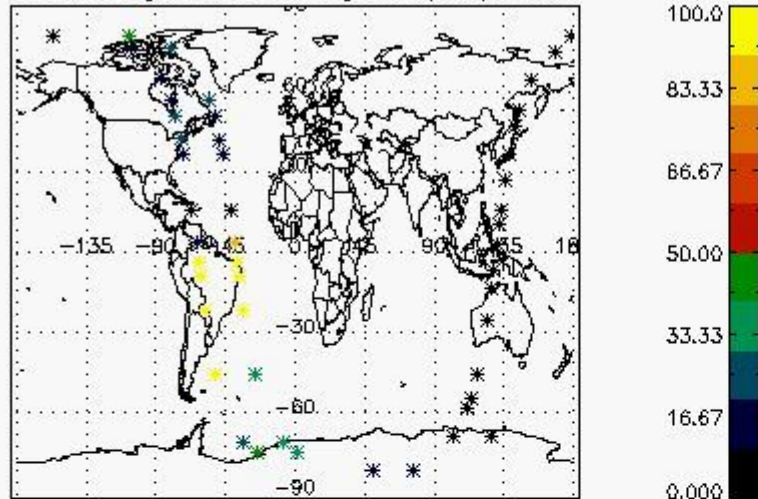
At least one measurement with demodulation flag set:	14.2857 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

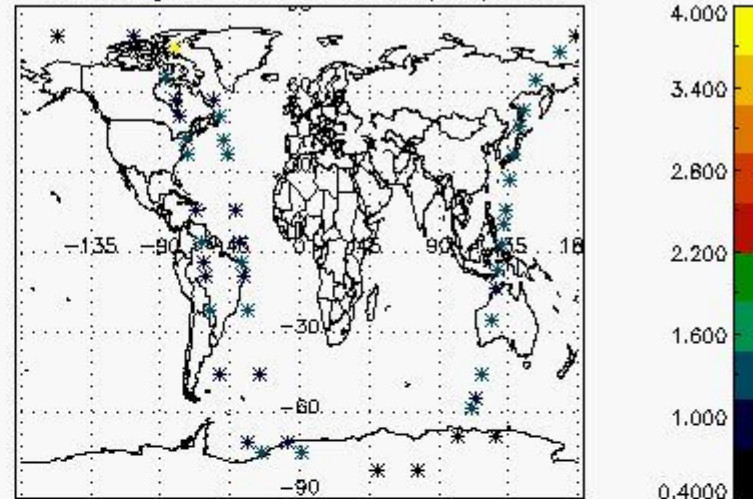


5.3 Plot quality information per product (world map)

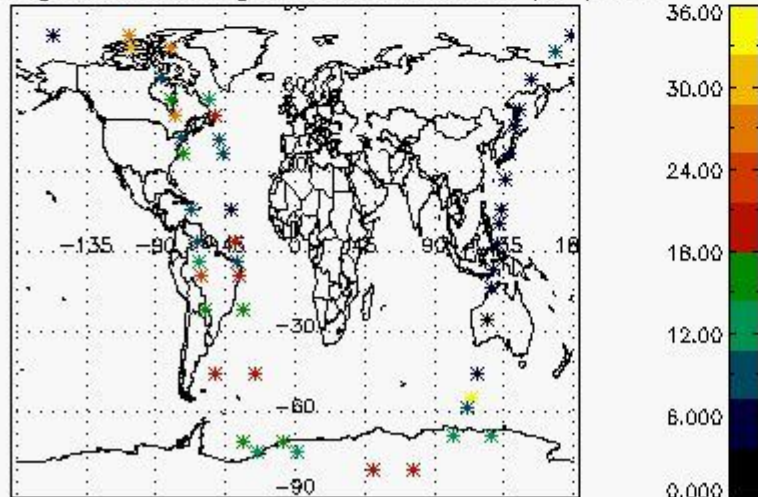
Percentage of cosmic ray hits per profile



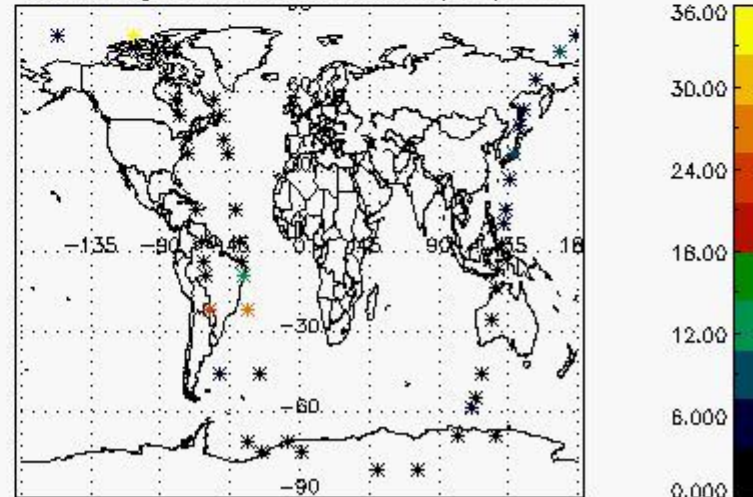
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



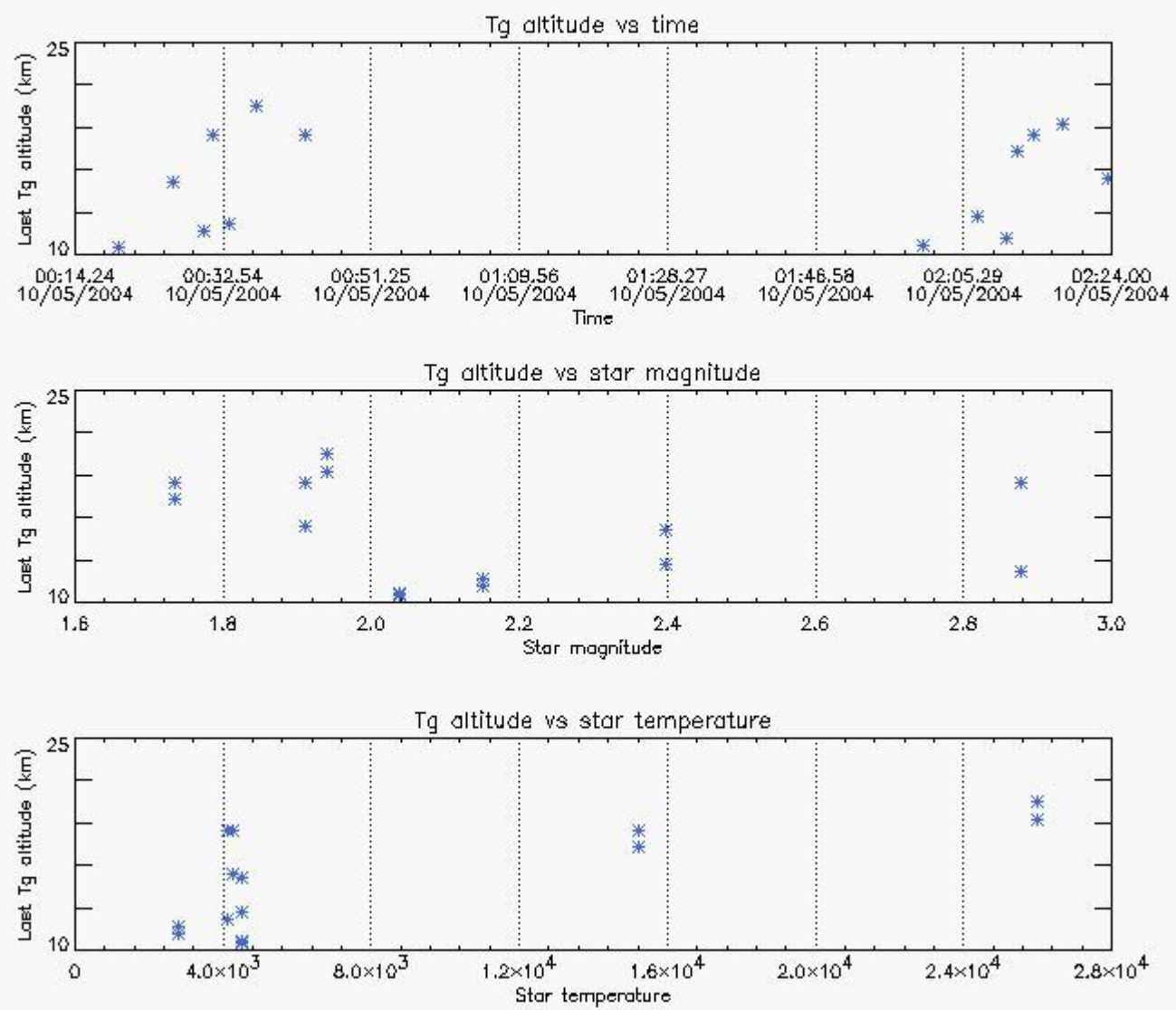
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.117	18.344	14.211
St. deviation:	3.5788	6.0386	3.6103
Maximum:	20.461	27.807	19.970
Minimum:	10.473	5.0175	6.3466
Number of data:	14.000	23.000	12.000

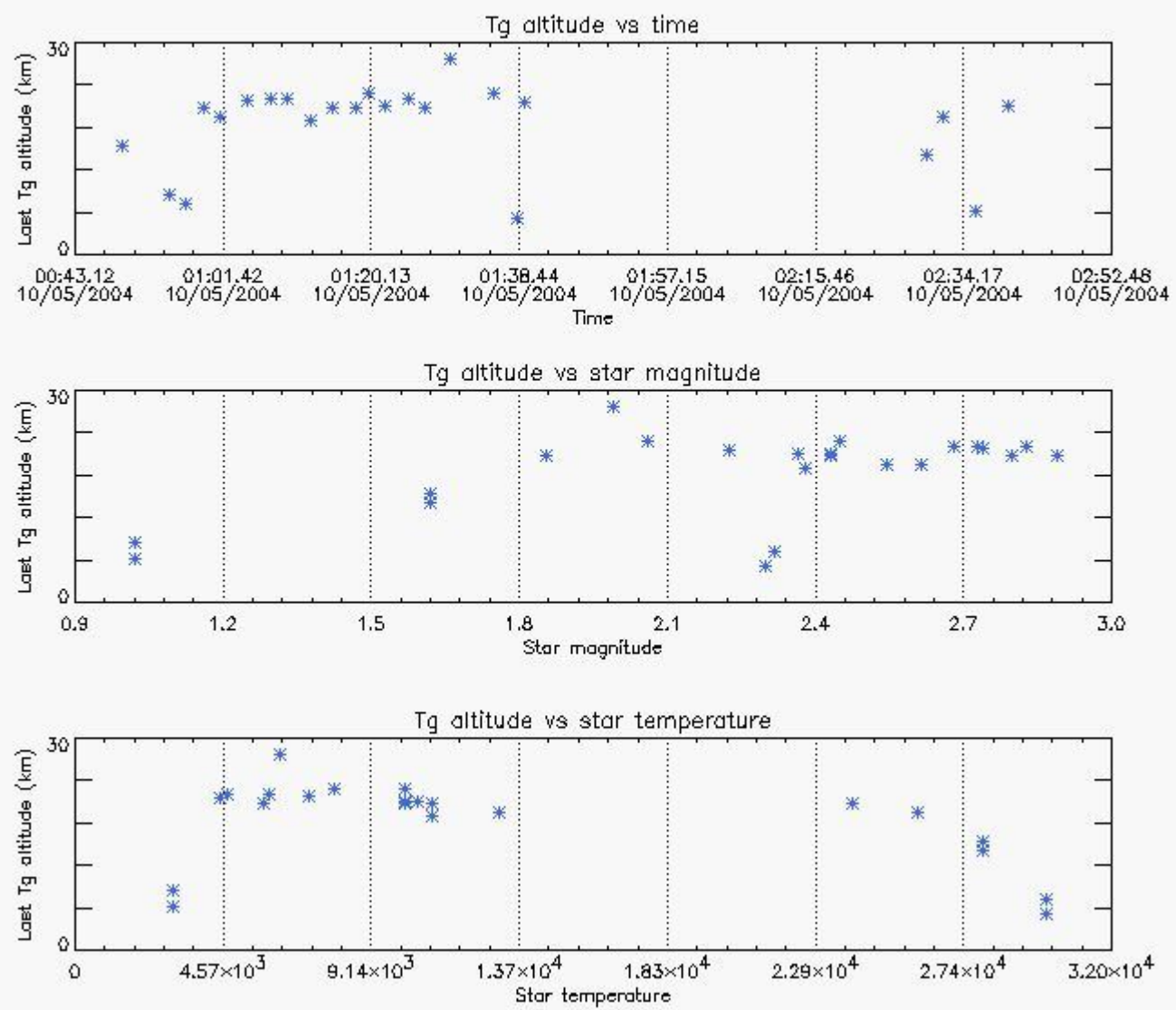
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



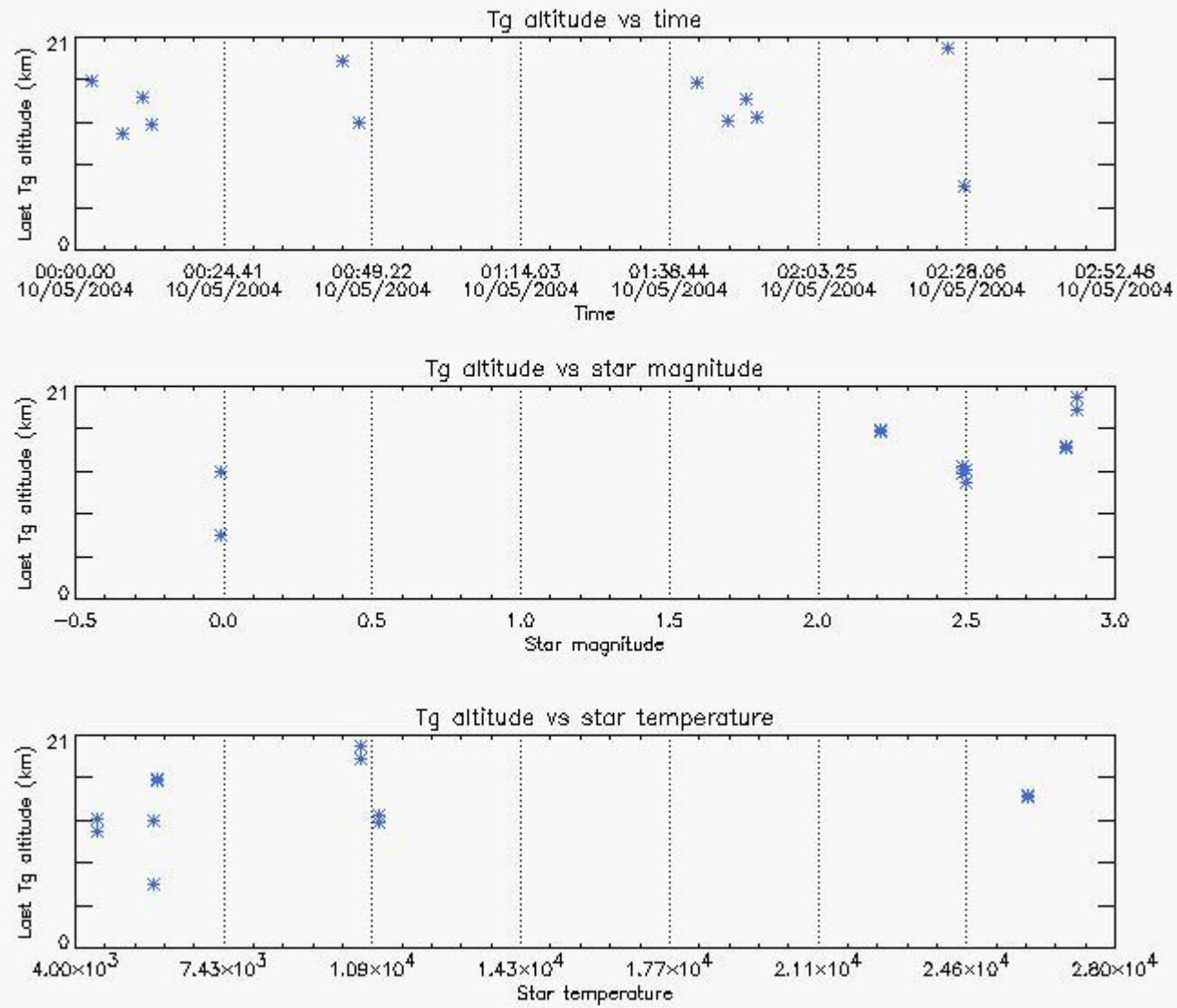
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

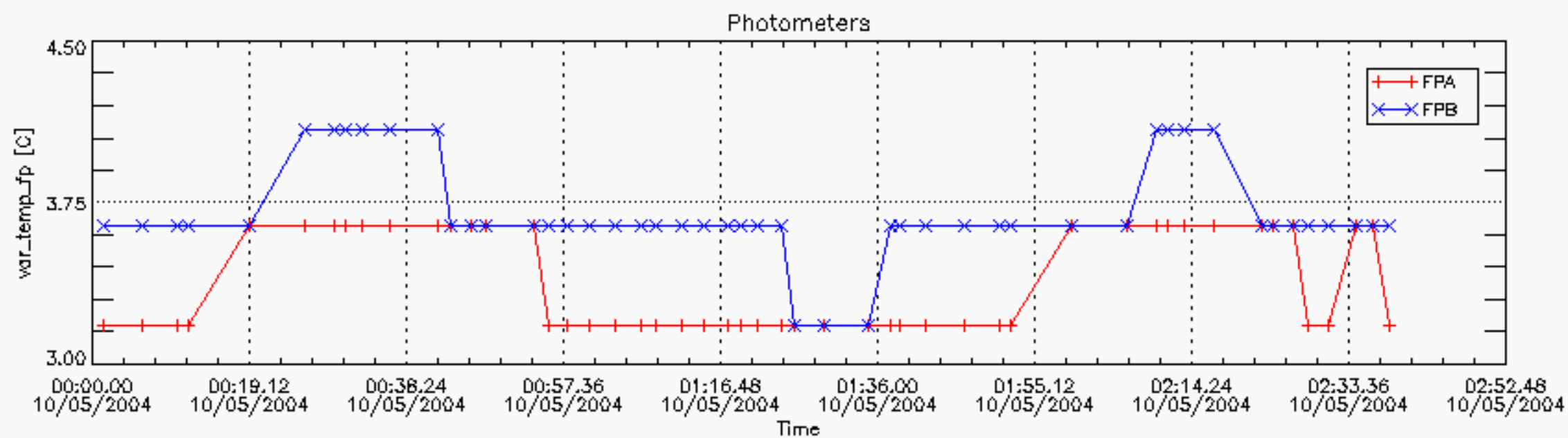
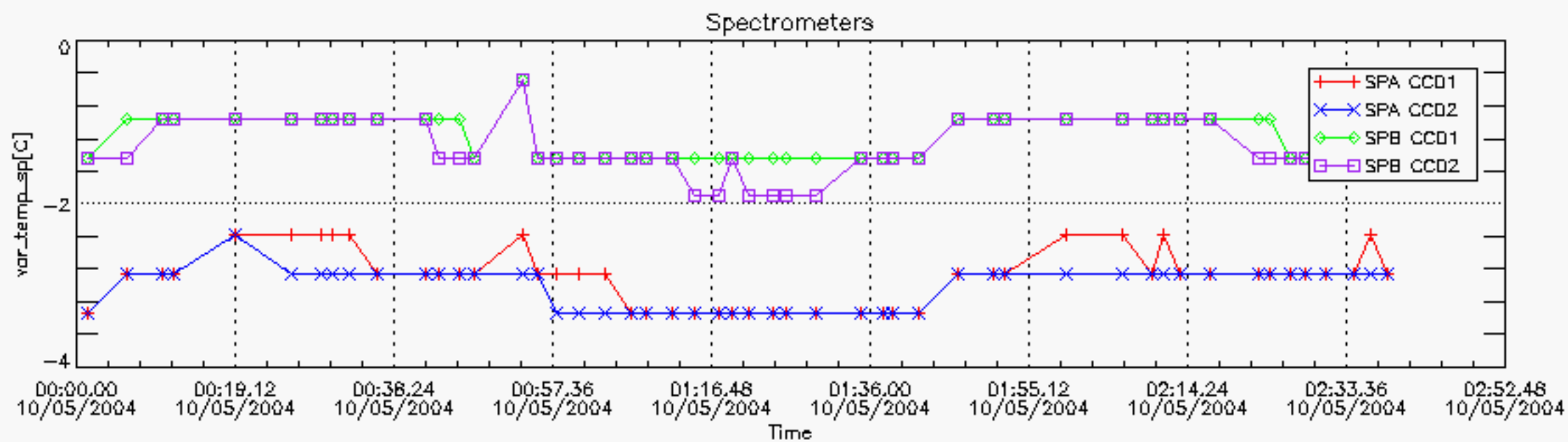
Tangent altitude at which the star is lost

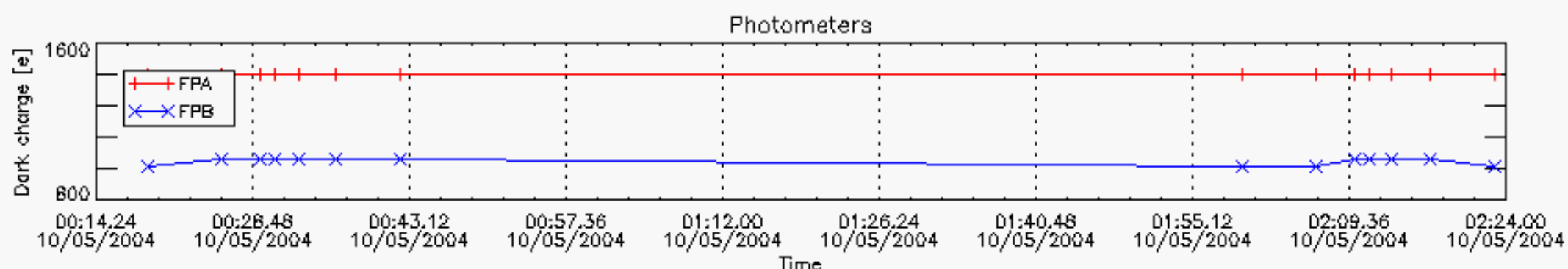
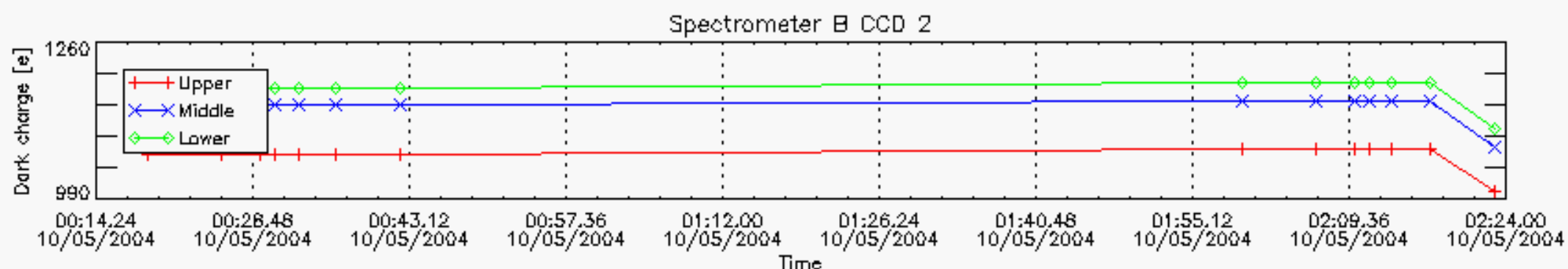
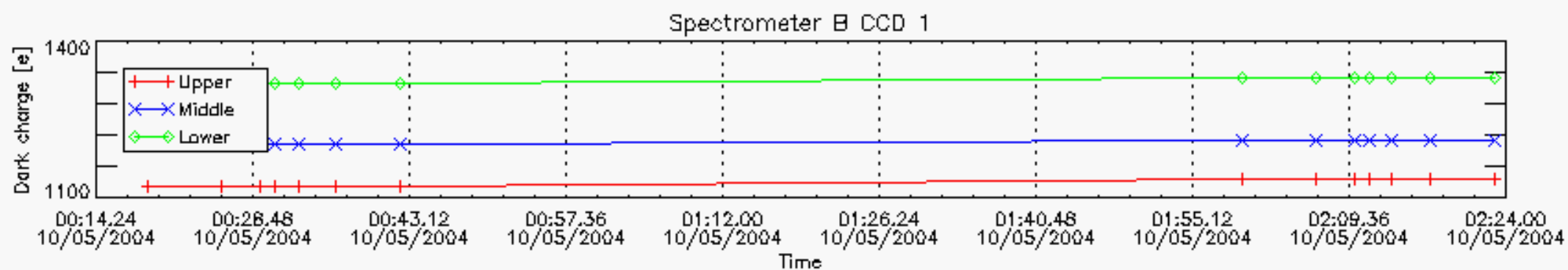
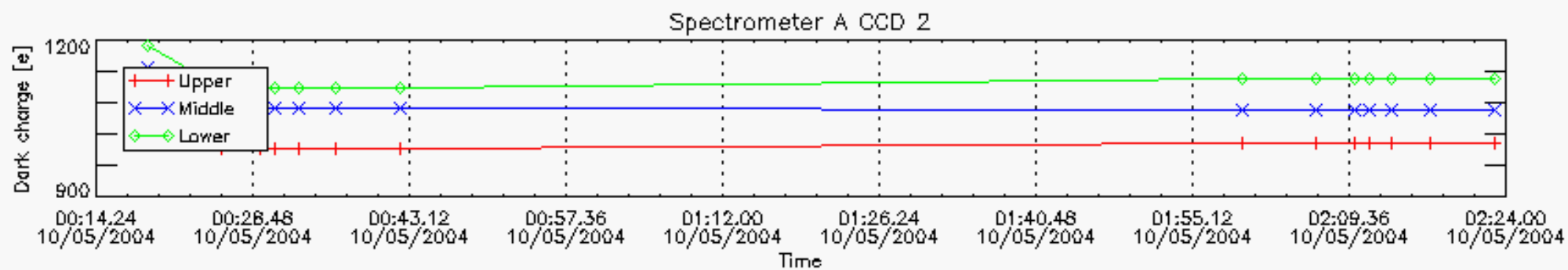
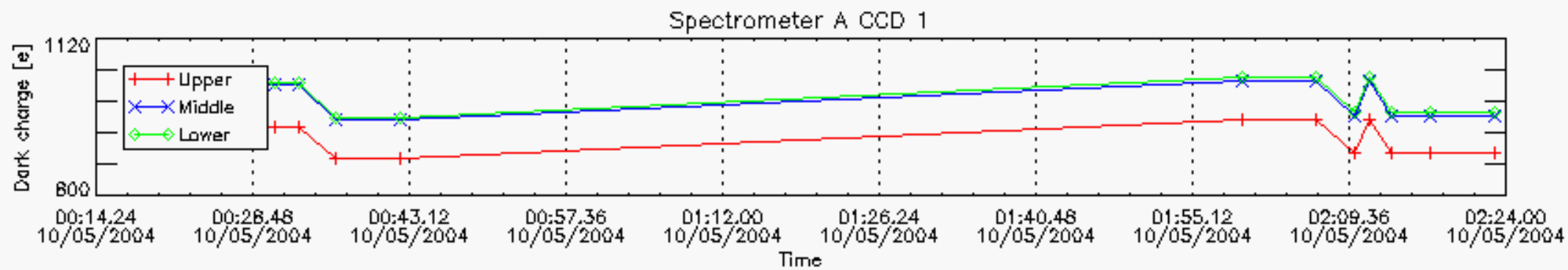


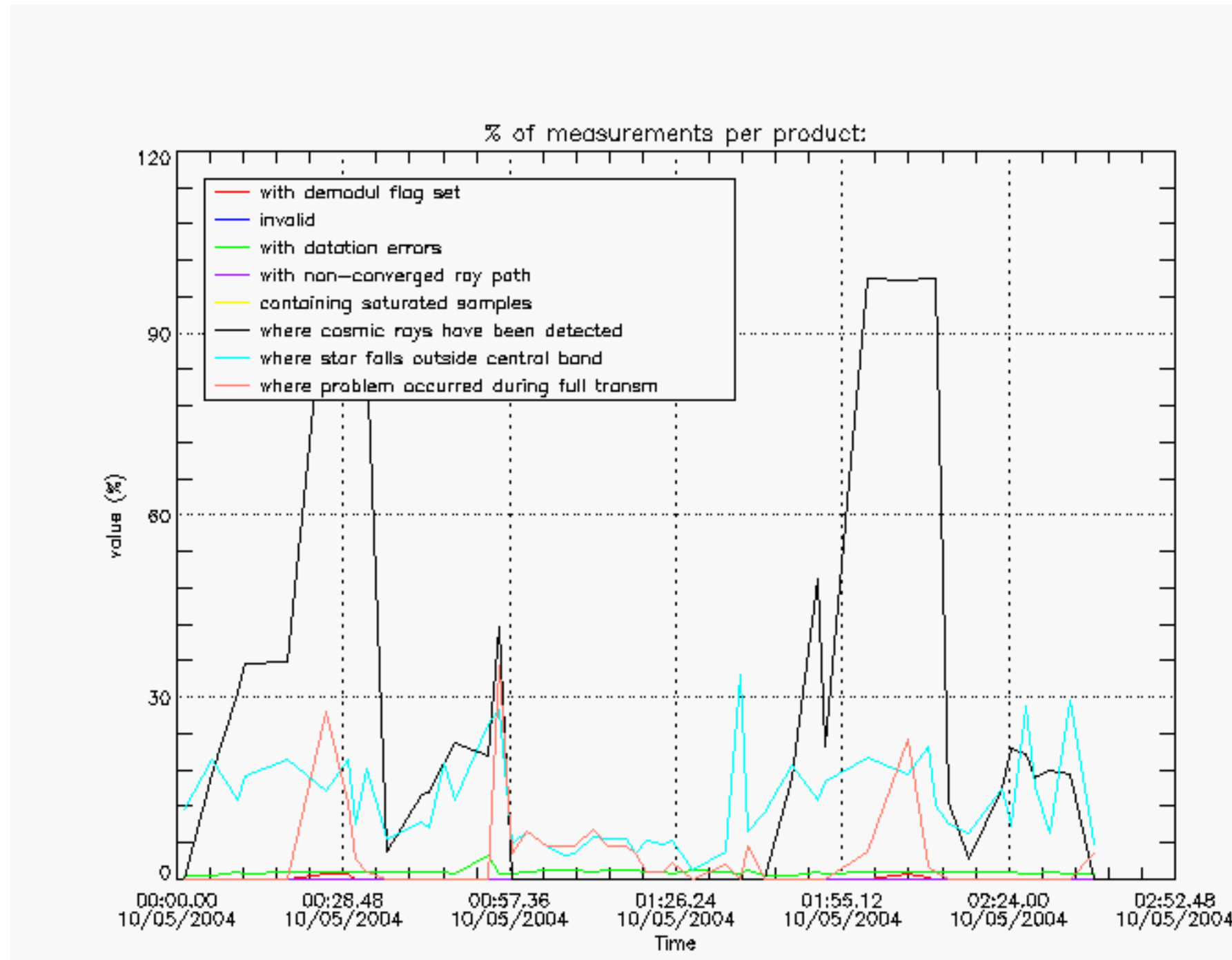
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

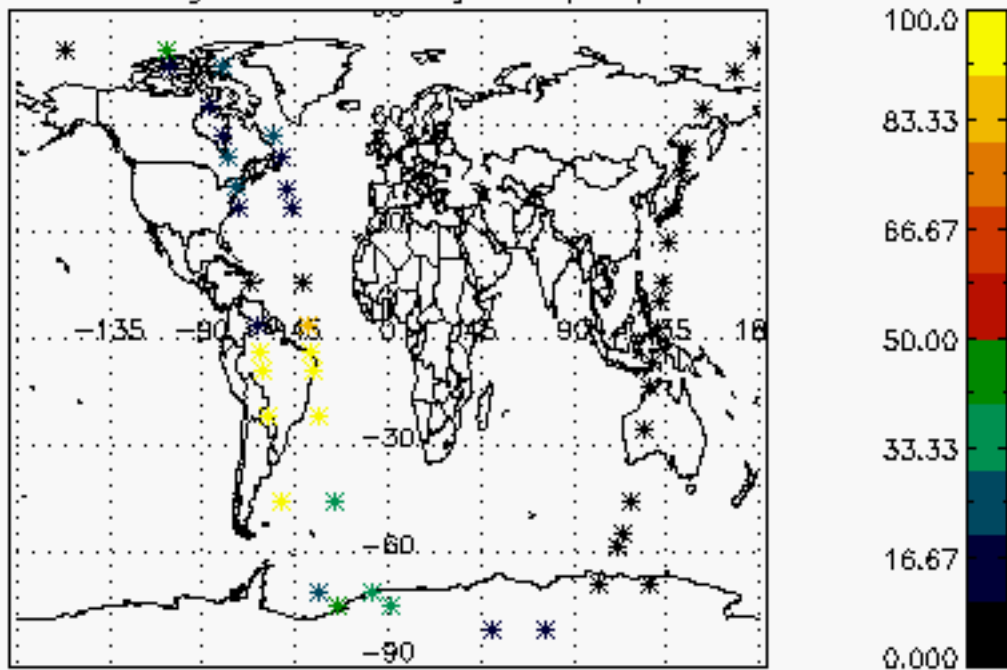
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.5	1446.1	1461.9	1447.8
St. deviation:	3.5690	5.0365	7.5507	8.5187
Maximum:	1486.0	1494.0	1670.0	1669.0
Minimum:	1446.0	1438.0	1435.0	1414.0
Number of data:	17100.	17100.	27650.	27650.



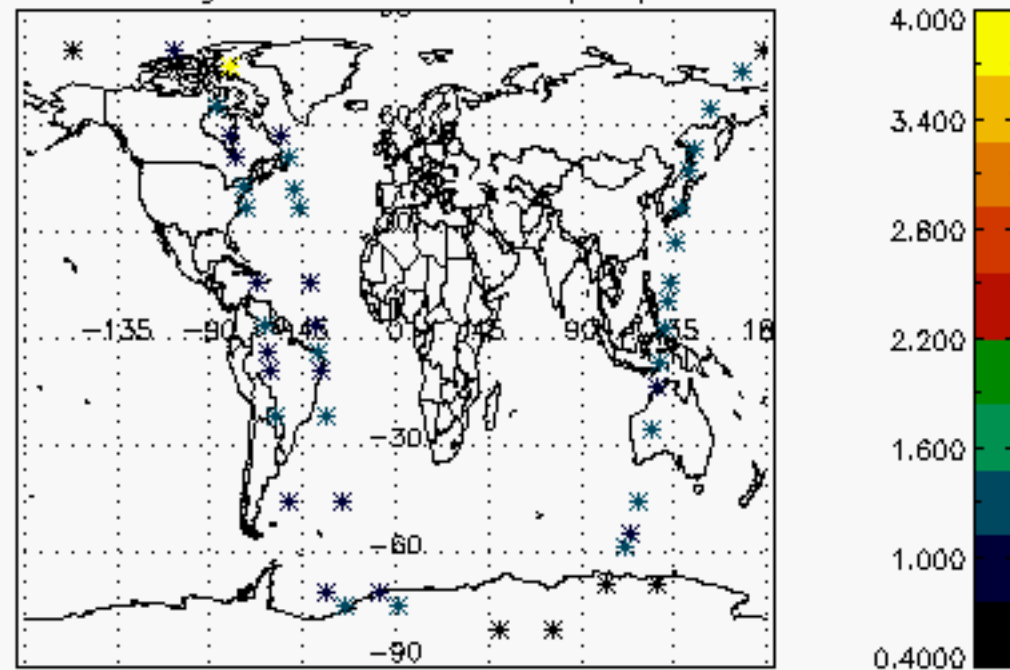




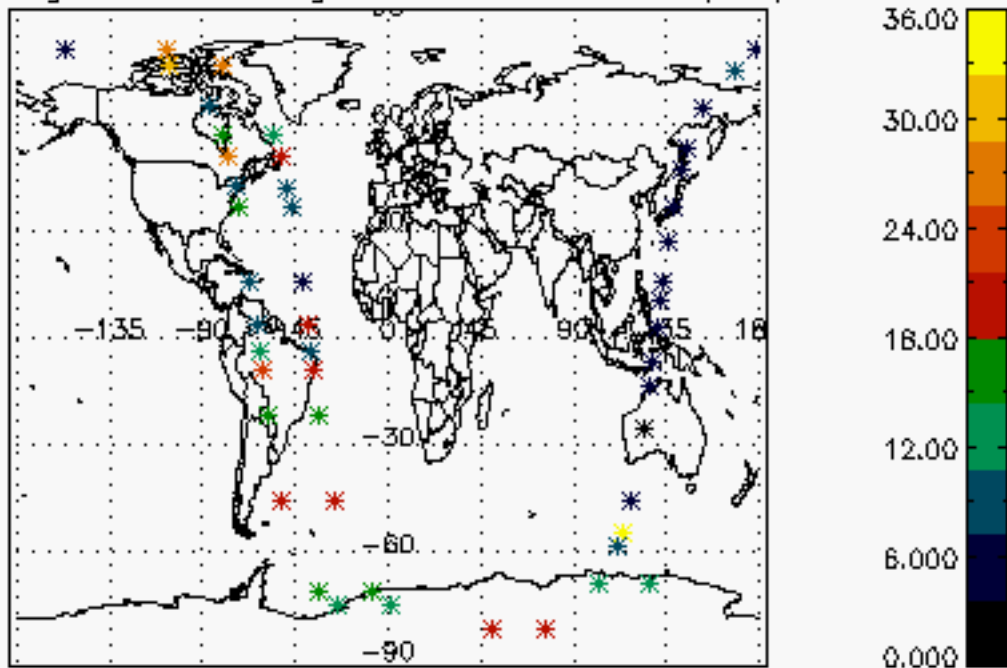
Percentage of cosmic ray hits per profile



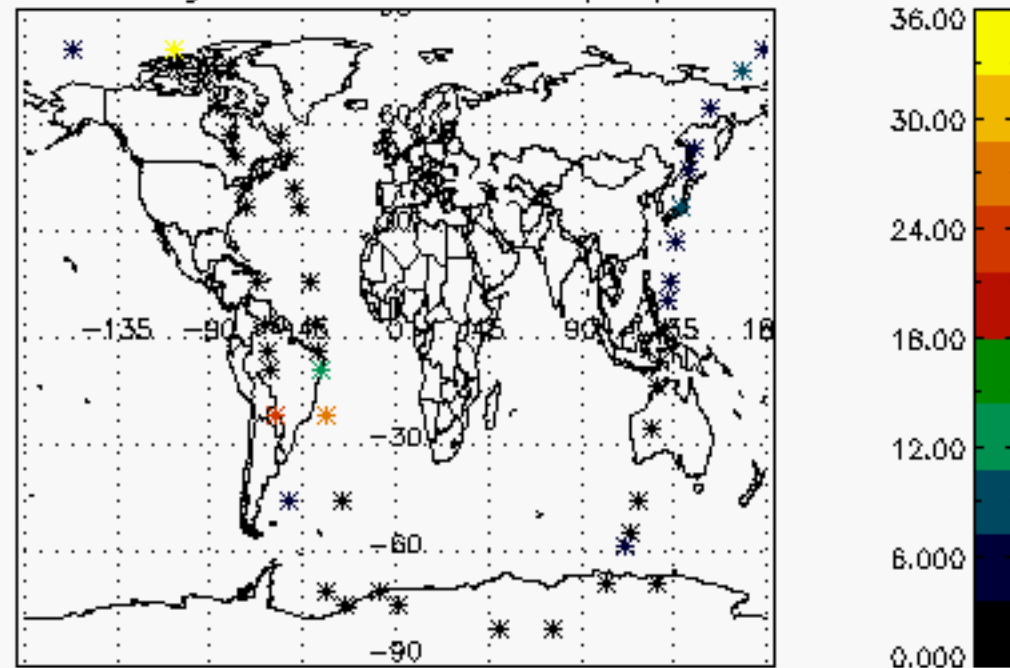
Percentage of datation errors per profile



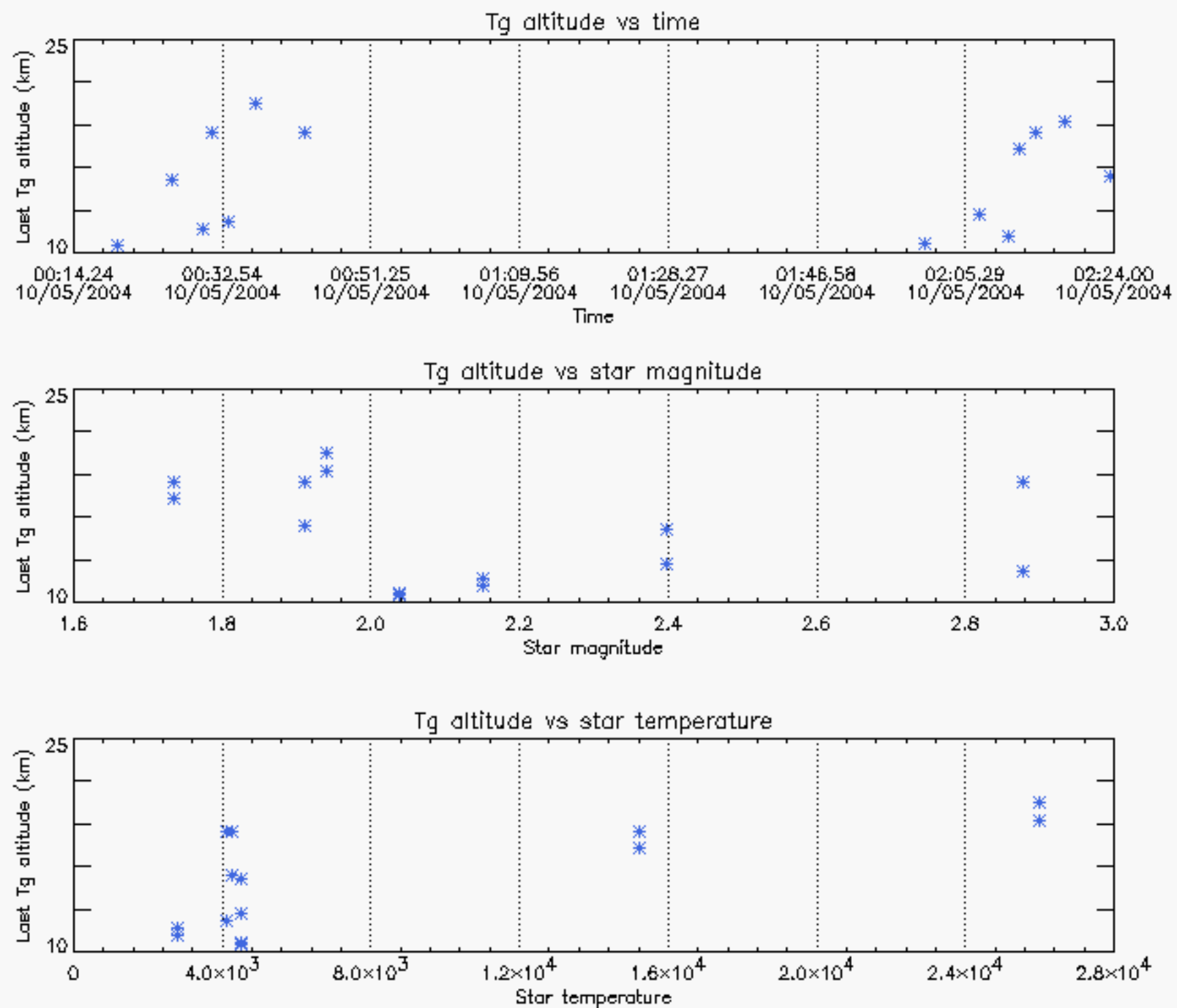
Percentage of star falling outside central band per profile



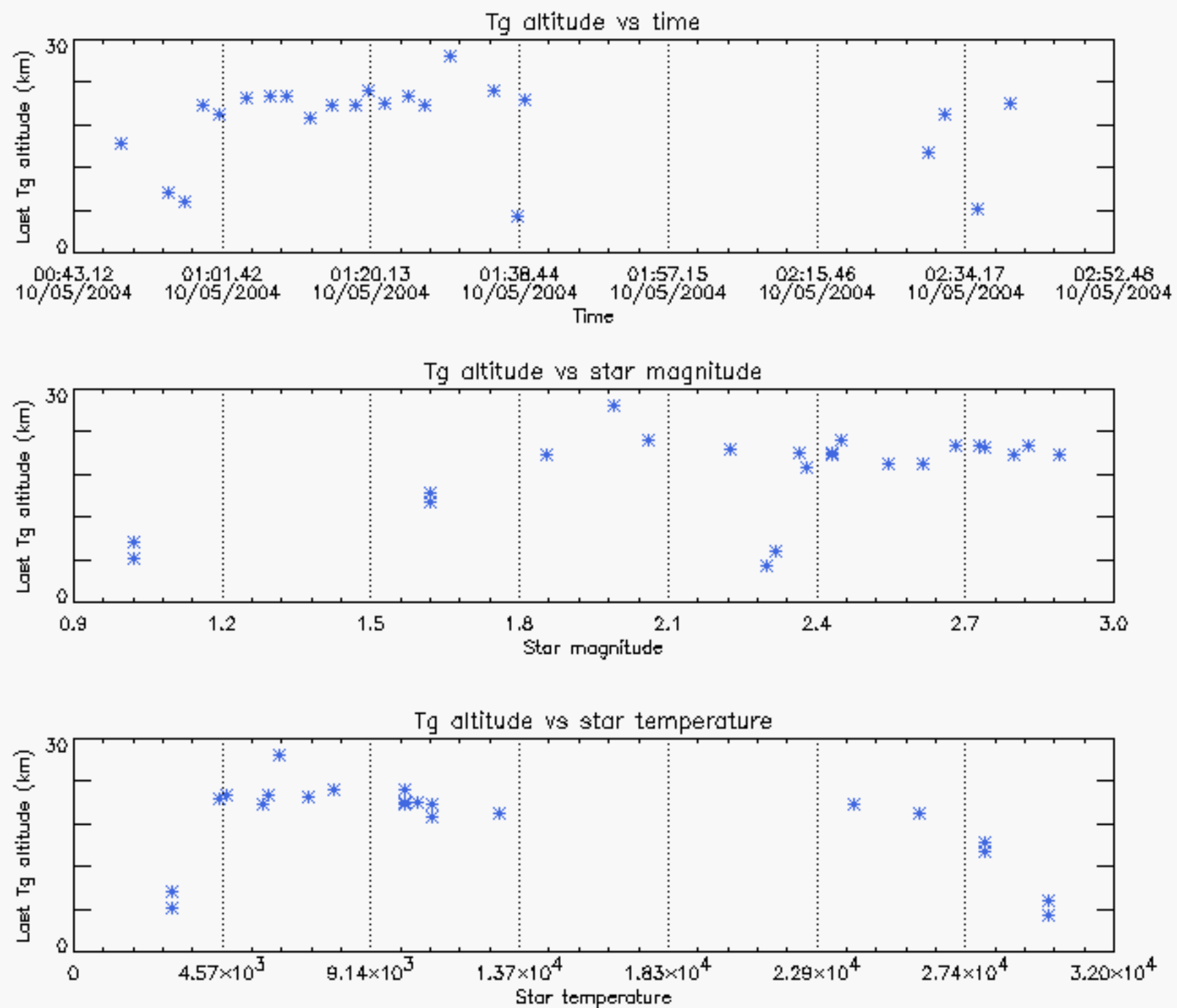
Percentage of saturation errors per profile



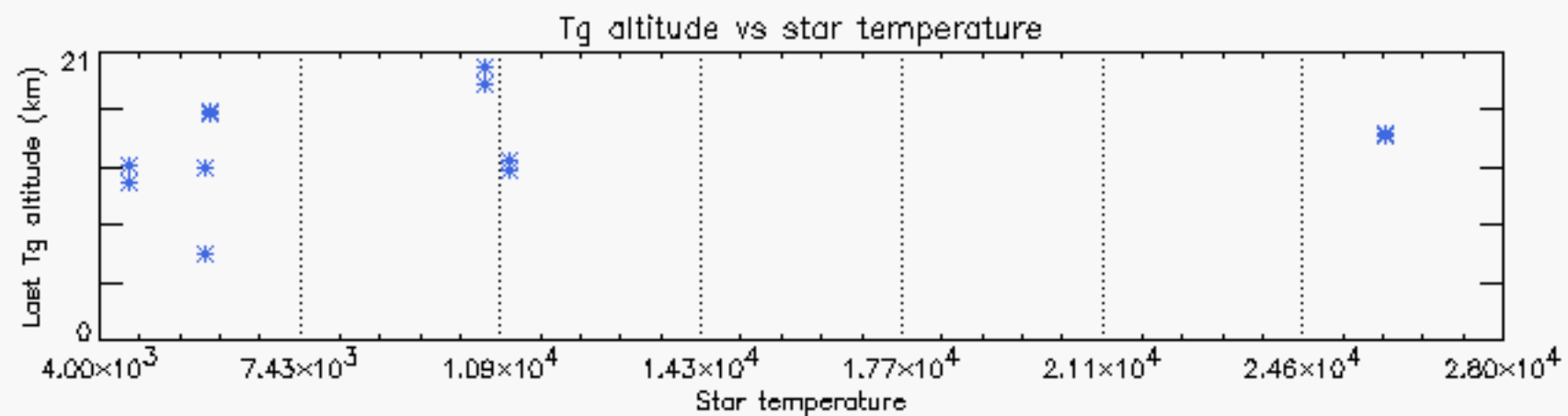
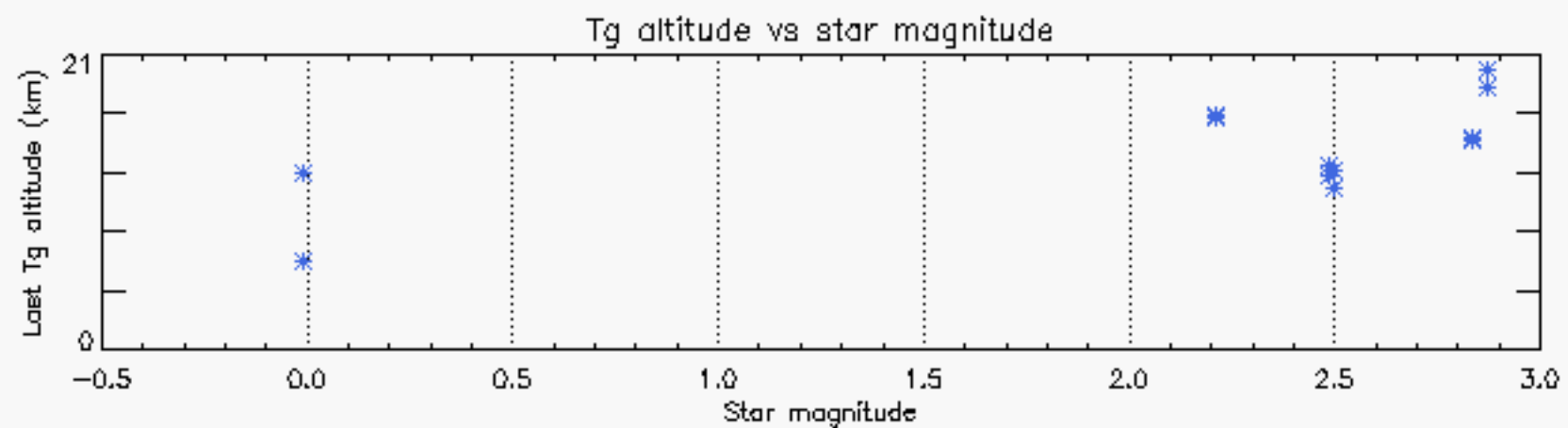
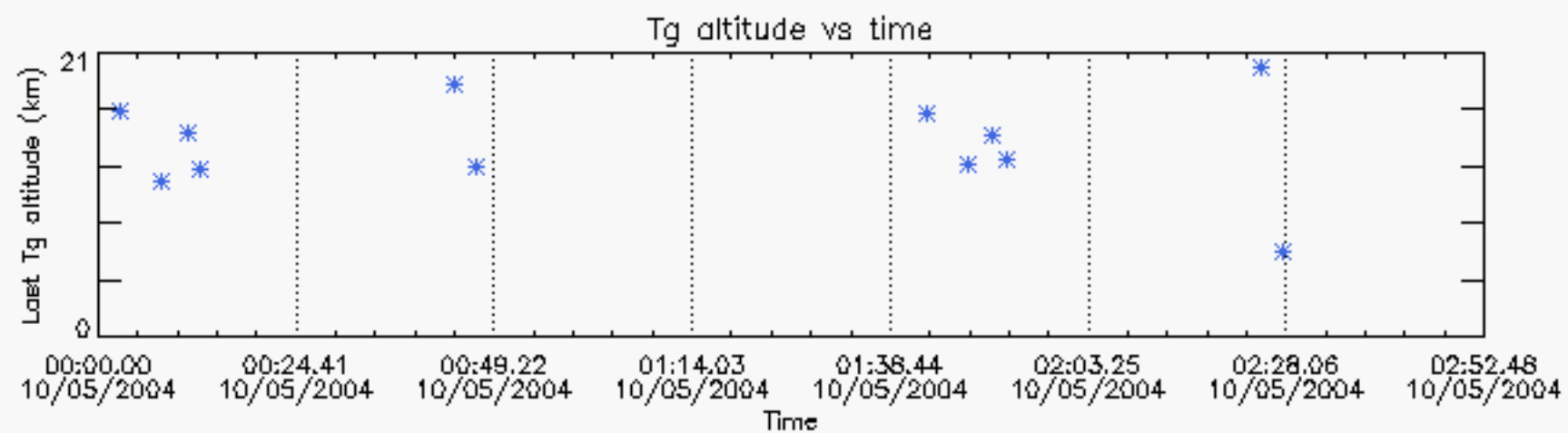
Tangent altitude at which the star is lost



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
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7;	-4016.1;	24-MAY-2004	17:11:26;	Bright	;	41.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	82;	0;	11675
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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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7;	-4301.0;	24-MAY-2004	18:47:17;	Bright	;	39.0;	104;	27Bet	Lib	;	2.61;	13100;	occ;	78;	0;	11676
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25; -113.9; 31-MAY-2004 17:56:22; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;11775
26; 76.5; 31-MAY-2004 17:59:33; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;11776
27; 188.9; 31-MAY-2004 18:01:25; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11776
28; 487.3; 31-MAY-2004 18:06:23; Dark ; 45.5; 45; Alp Pav ; 1.94; 26000;occ; 91; 0;11776
29; 705.3; 31-MAY-2004 18:10:01; Dark ; 43.5; 43; Alp TrA ; 1.91; 4250;occ; 87; 0;11776
30; 829.2; 31-MAY-2004 18:12:05; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;11776
31; 933.9; 31-MAY-2004 18:13:50; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;11776
32; 1035.1; 31-MAY-2004 18:15:31; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;11776

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