

GOMOS Daily Report 23-SEP-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	24SEP2004 05:01:53
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (23SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (24SEP2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

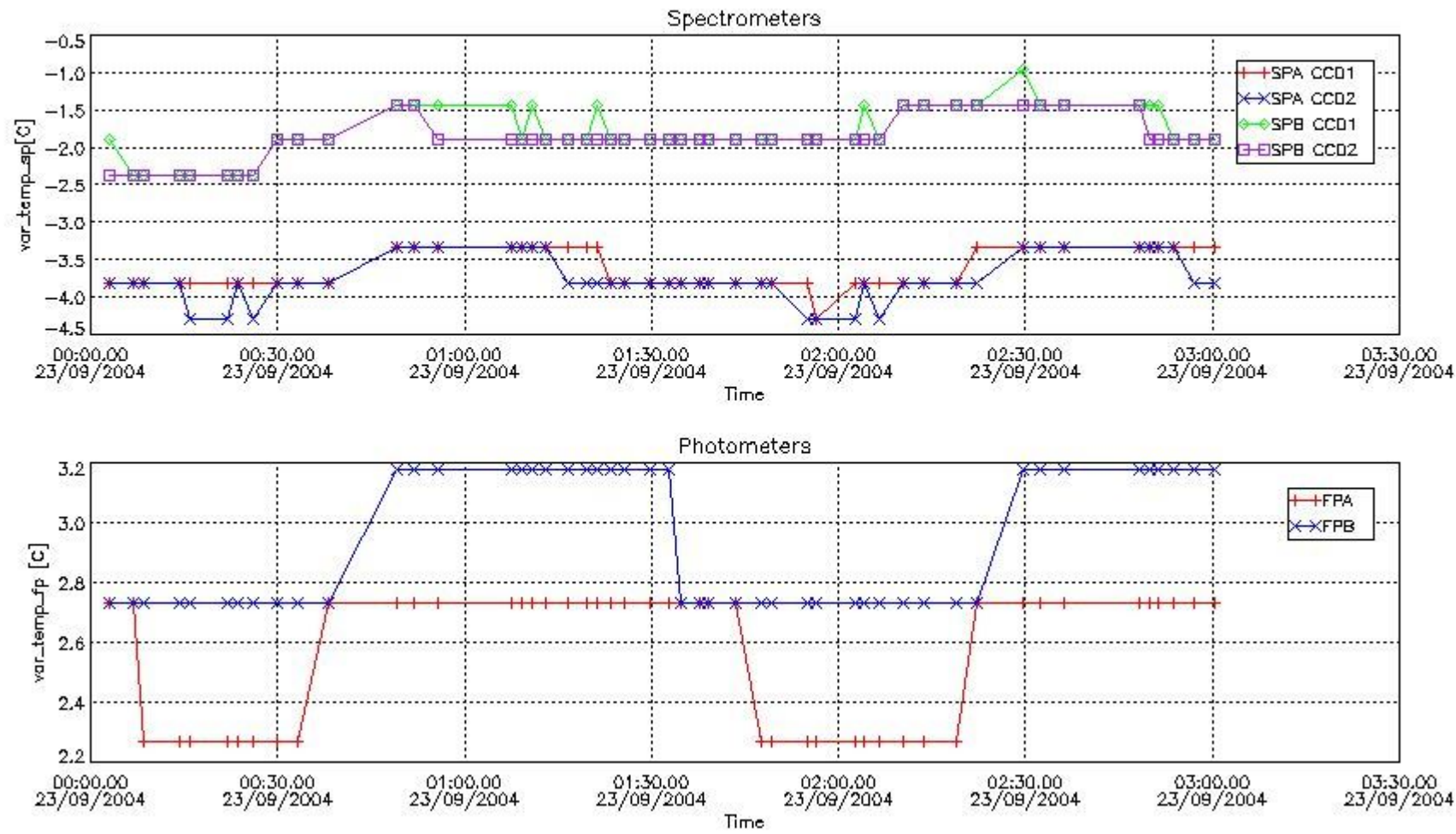
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040923_000254_000000402030_00331_13411_0016.N1	23-SEP-2004 00:02:54	Bright	39.500	19	50Alp Cyg	1.2460	10500.	79	13411	No
GOM_TRA_1PNPDE20040923_000655_000000372030_00331_13411_0017.N1	23-SEP-2004 00:06:55	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	13411	No
GOM_TRA_1PNPDE20040923_000833_000000382030_00331_13411_0018.N1	23-SEP-2004 00:08:33	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	13411	No
GOM_TRA_1PNPDE20040923_001423_000000342030_00331_13411_0019.N1	23-SEP-2004 00:14:23	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	13411	No
GOM_TRA_1PNPDE20040923_001553_000000342030_00331_13411_0020.N1	23-SEP-2004 00:15:53	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	13411	No
GOM_TRA_1PNPDE20040923_002203_000000382030_00331_13411_0021.N1	23-SEP-2004 00:22:03	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	13411	No
GOM_TRA_1PNPDE20040923_002332_000000432030_00331_13411_0022.N1	23-SEP-2004 00:23:32	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	13411	No
GOM_TRA_1PNPDE20040923_002558_000000632030_00331_13411_0023.N1	23-SEP-2004 00:25:58	Bright	62.500	42	34Bet Aur	1.9000	10200.	125	13411	No
GOM_TRA_1PNPDE20040923_002953_000000752030_00331_13411_0024.N1	23-SEP-2004 00:29:53	Bright	74.500	107	37The Aur	2.6490	11000.	149	13411	No
GOM_TRA_1PNPDE20040923_003305_000002552030_00331_13411_0025.N1	23-SEP-2004 00:33:05	Twilight	255.00	114	3lot Aur	2.6930	4600.0	510	13411	No
GOM_TRA_1PNPDE20040923_003815_000000982030_00331_13411_0026.N1	23-SEP-2004 00:38:15	Twilight	98.000	151	13Mu Gem	2.8900	3000.0	196	13411	No
GOM_TRA_1PNPDE20040923_004900_000000422030_00331_13411_0000.N1	23-SEP-2004 00:49:00	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	13411	No
GOM_TRA_1PNPDE20040923_005151_000000762030_00331_13411_0001.N1	23-SEP-2004 00:51:51	Dark	75.500	1	9Alp CMa	-1.4400	11000.	151	13411	No
GOM_TRA_1PNPDE20040923_005538_000000422030_00331_13411_0002.N1	23-SEP-2004 00:55:38	Dark	41.500	46	Del Vel	1.9540	10600.	83	13411	No
GOM_TRA_1PNPDE20040923_010737_000000382030_00332_13412_0003.N1	23-SEP-2004 01:07:37	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	13412	No
GOM_TRA_1PNPDE20040923_010916_000000402030_00332_13412_0004.N1	23-SEP-2004 01:09:16	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	13412	No
GOM_TRA_1PNPDE20040923_011043_000000442030_00332_13412_0005.N1	23-SEP-2004 01:10:43	Dark	43.500	9	Alp Eri	0.45300	24000.	87	13412	No
GOM_TRA_1PNPDE20040923_011305_000000392030_00332_13412_0006.N1	23-SEP-2004 01:13:05	Dark	39.000	148	Alp Tuc	2.8780	4100.0	78	13412	No
GOM_TRA_1PNPDE20040923_011635_000000502030_00332_13412_0007.N1	23-SEP-2004 01:16:35	Twilight	49.500	63	Bet Gru	2.1500	2800.0	99	13412	No
GOM_TRA_1PNPDE20040923_011940_000000392030_00332_13412_0008.N1	23-SEP-2004 01:19:40	Bright	38.500	172	Gam Gru	3.0030	13100.	77	13412	No
GOM_TRA_1PNPDE20040923_012110_000000392030_00332_13412_0009.N1	23-SEP-2004 01:21:10	Bright	38.500	18	24Alp PsA	1.1660	9700.0	77	13412	No
GOM_TRA_1PNPDE20040923_012331_000000552030_00332_13412_0010.N1	23-SEP-2004 01:23:31	Bright	54.500	52	16Bet Cet	2.0370	4500.0	109	13412	No
GOM_TRA_1PNPDE20040923_012540_000000422030_00332_13412_0011.N1	23-SEP-2004 01:25:40	Bright	42.000	142	49Del Cap	2.8500	8900.0	84	13412	No
GOM_TRA_1PNPDE20040923_012950_000000382030_00332_13412_0012.N1	23-SEP-2004 01:29:50	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	13412	No
GOM_TRA_1PNPDE20040923_013254_000000392030_00332_13412_0013.N1	23-SEP-2004 01:32:54	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	13412	No
GOM_TRA_1PNPDE20040923_013446_000000452030_00332_13412_0014.N1	23-SEP-2004 01:34:46	Bright	44.500	140	88Gam Peg	2.8340	26000.	89	13412	No
GOM_TRA_1PNPDE20040923_013741_000000422030_00332_13412_0015.N1	23-SEP-2004 01:37:41	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	13412	No
GOM_TRA_1PNPDE20040923_013905_000000452030_00332_13412_0016.N1	23-SEP-2004 01:39:05	Bright	44.500	58	21Alp And	2.0730	11000.	89	13412	No
GOM_TRA_1PNPDE20040923_014330_000000402030_00332_13412_0017.N1	23-SEP-2004 01:43:30	Bright	39.500	19	50Alp Cyg	1.2460	10500.	79	13412	No
GOM_TRA_1PNPDE20040923_014730_000000372030_00332_13412_0018.N1	23-SEP-2004 01:47:30	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	13412	No
GOM_TRA_1PNPDE20040923_014909_000000432030_00332_13412_0019.N1	23-SEP-2004 01:49:09	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	13412	No
GOM_TRA_1PNPDE20040923_015459_000000372030_00332_13412_0020.N1	23-SEP-2004 01:54:59	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	13412	No
GOM_TRA_1PNPDE20040923_015629_000000382030_00332_13412_0021.N1	23-SEP-2004 01:56:29	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	13412	No
GOM_TRA_1PNPDE20040923_020239_000000362030_00332_13412_0022.N1	23-SEP-2004 02:02:39	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	13412	No
GOM_TRA_1PNPDE20040923_020408_000000522030_00332_13412_0023.N1	23-SEP-2004 02:04:08	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	13412	No
GOM_TRA_1PNPDE20040923_020634_000000622030_00332_13412_0024.N1	23-SEP-2004 02:06:34	Bright	61.500	42	34Bet Aur	1.9000	10200.	123	13412	No
GOM_TRA_1PNPDE20040923_021029_000000762030_00332_13412_0025.N1	23-SEP-2004 02:10:29	Bright	76.000	107	37The Aur	2.6490	11000.	152	13412	No
GOM_TRA_1PNPDE20040923_021341_000002552030_00332_13412_0026.N1	23-SEP-2004 02:13:41	Twilight	255.00	114	3lot Aur	2.6930	4600.0	510	13412	No
GOM_TRA_1PNPDE20040923_021852_000001182030_00332_13412_0027.N1	23-SEP-2004 02:18:52	Twilight	117.50	151	13Mu Gem	2.8900	3000.0	235	13412	No
GOM_TRA_1PNPDE20040923_022217_000000662030_00332_13412_0001.N1	23-SEP-2004 02:22:17	Twilight	65.500	8	10Alp CMi	0.40000	6500.0	131	13412	No
GOM_TRA_1PNPDE20040923_022937_000000462030_00332_13412_0002.N1	23-SEP-2004 02:29:37	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	13412	No
GOM_TRA_1PNPDE20040923_023229_000000702030_00332_13412_0003.N1	23-SEP-2004 02:32:29	Dark	69.500	1	9Alp CMa	-1.4400	11000.	139	13412	No
GOM_TRA_1PNPDE20040923_023614_000000392030_00332_13412_0004.N1	23-SEP-2004 02:36:14	Dark	38.500	46	Del Vel	1.9540	10600.	77	13412	No
GOM_TRA_1PNPDE20040923_024813_000000392030_00333_13413_0005.N1	23-SEP-2004 02:48:13	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	13413	No
GOM_TRA_1PNPDE20040923_024952_000000402030_00333_13413_0006.N1	23-SEP-2004 02:49:52	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	13413	No
GOM_TRA_1PNPDE20040923_025119_000000442030_00333_13413_0007.N1	23-SEP-2004 02:51:19	Dark	44.000	9	Alp Eri	0.45300	24000.	88	13413	No
GOM_TRA_1PNPDE20040923_025341_000000412030_00333_13413_0008.N1	23-SEP-2004 02:53:41	Dark	41.000	148	Alp Tuc	2.8780	4100.0	82	13413	No
GOM_TRA_1PNPDE20040923_025711_000000472030_00333_13413_0009.N1	23-SEP-2004 02:57:11	Twilight	46.500	63	Bet Gru	2.1500	2800.0	93	13413	No
GOM_TRA_1PNPDE20040923_030016_000000382030_00333_13413_0010.N1	23-SEP-2004 03:00:16	Bright	38.000	172	Gam Gru	3.0030	13100.	76	13413	No

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



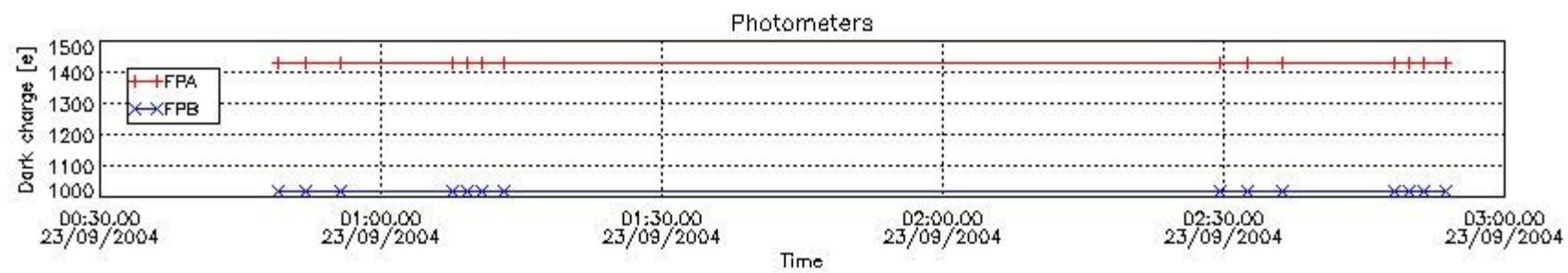
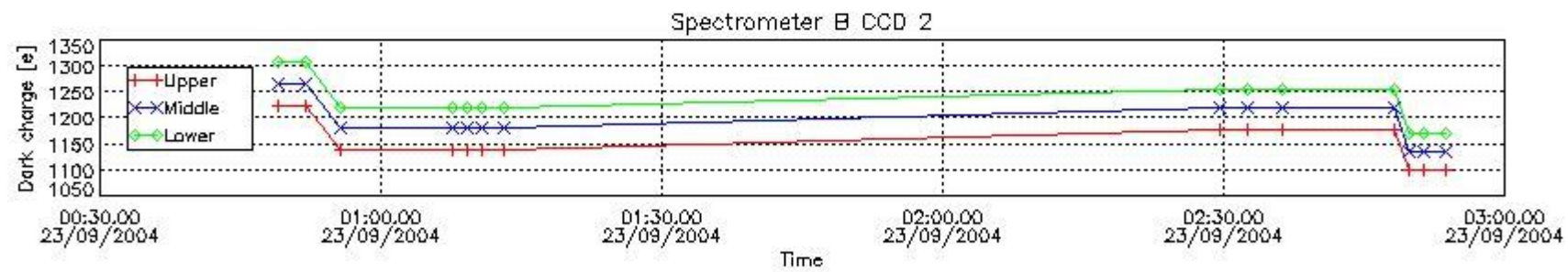
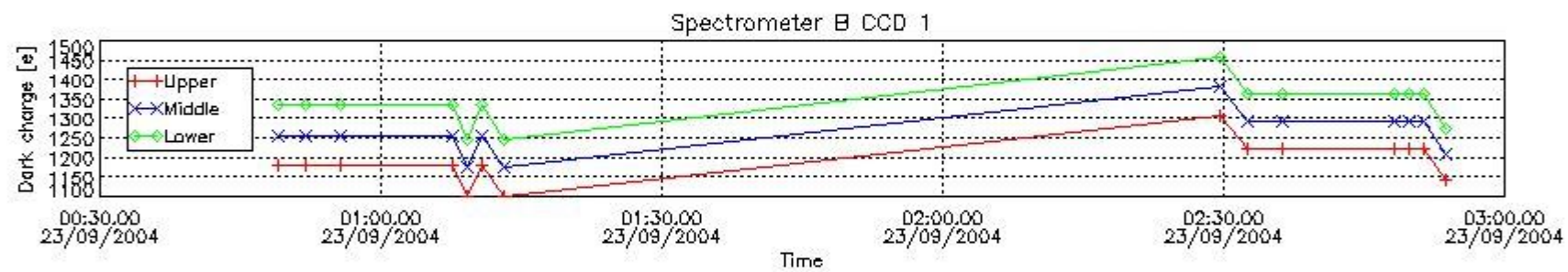
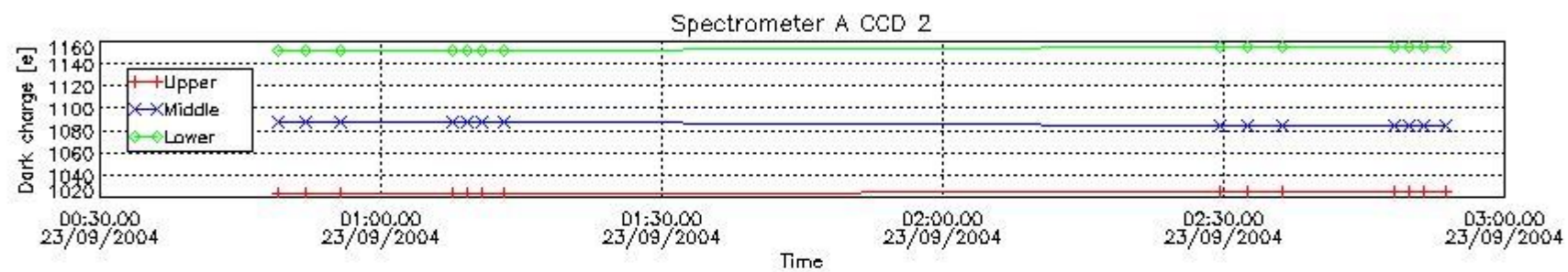
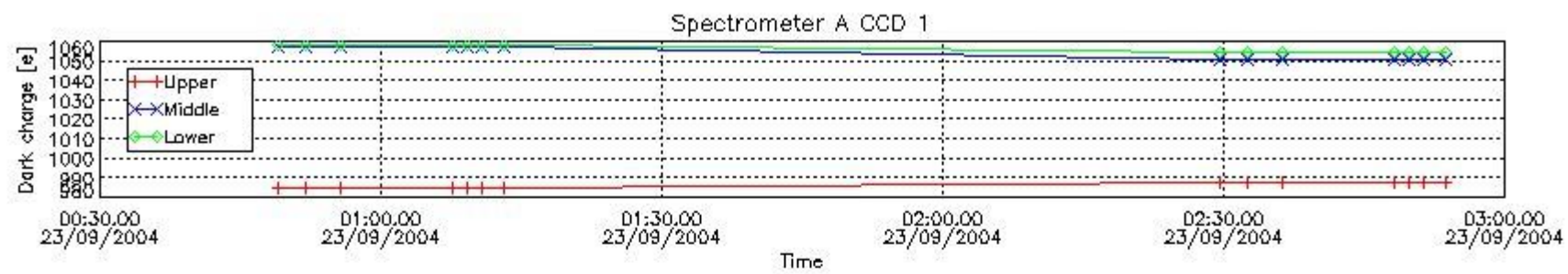
4. Overview of dark signal processing per product

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



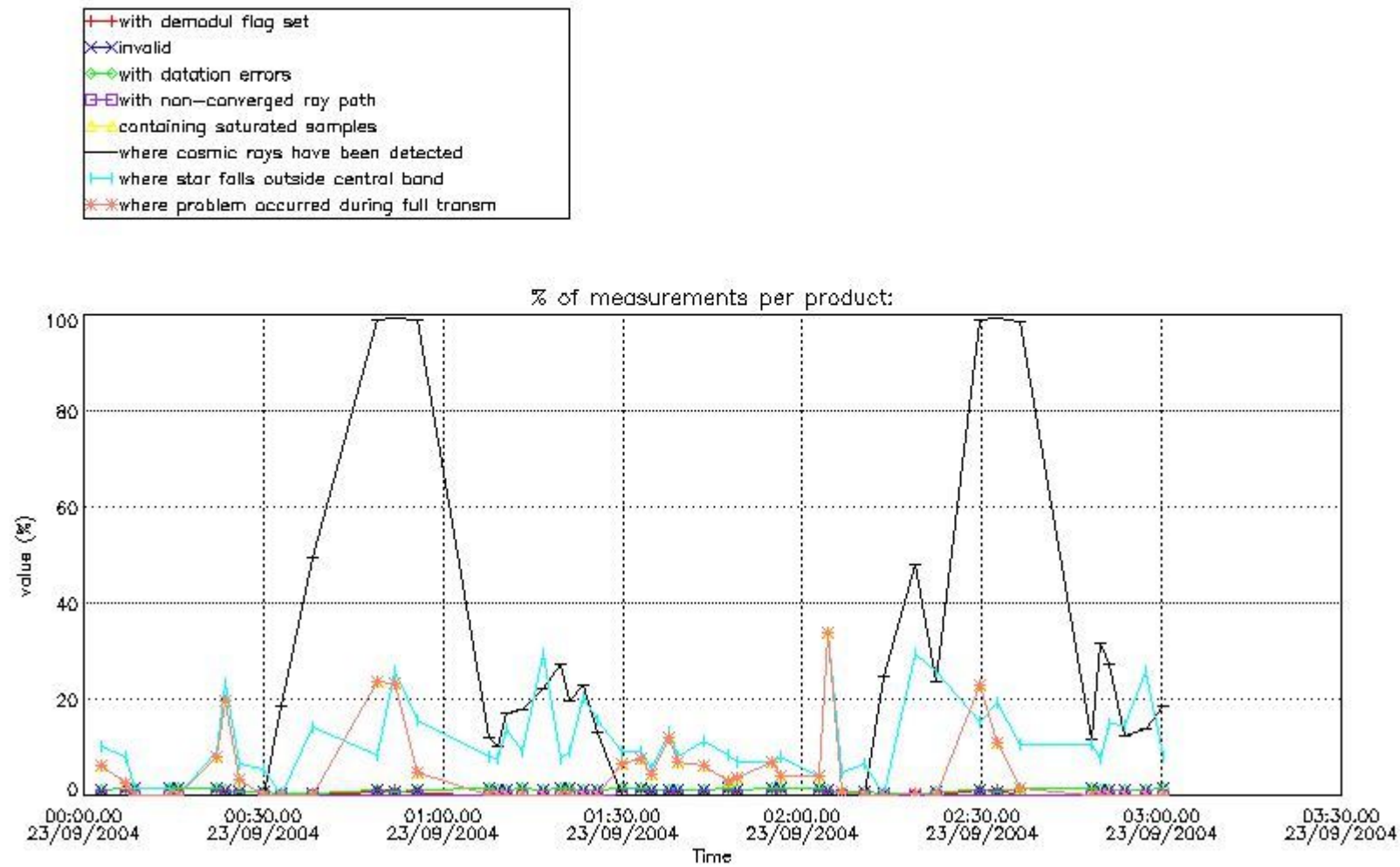
5. Demodulation flag and quality information monitoring

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.

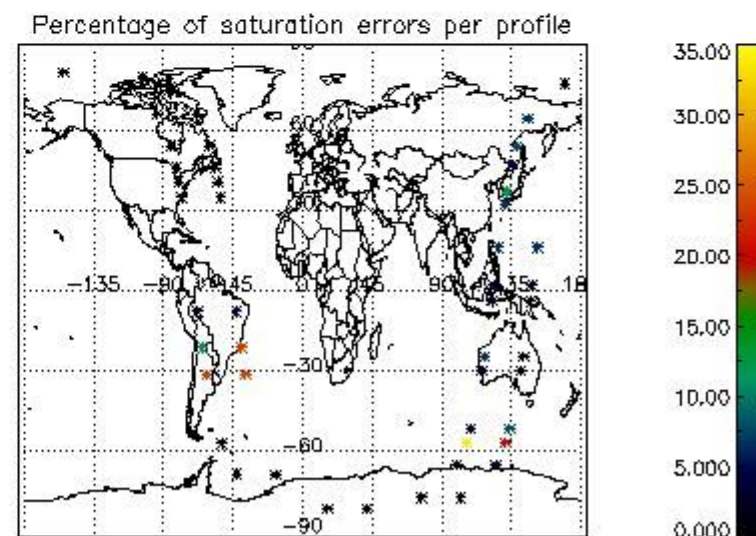
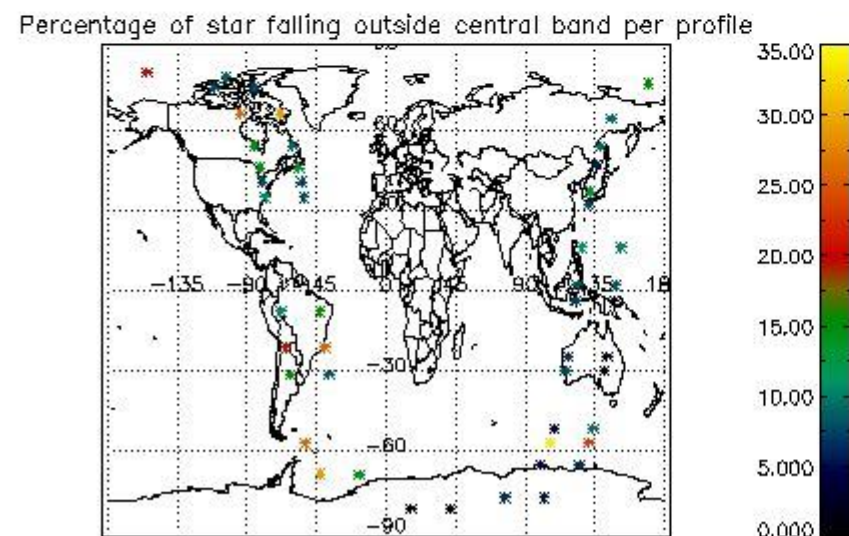
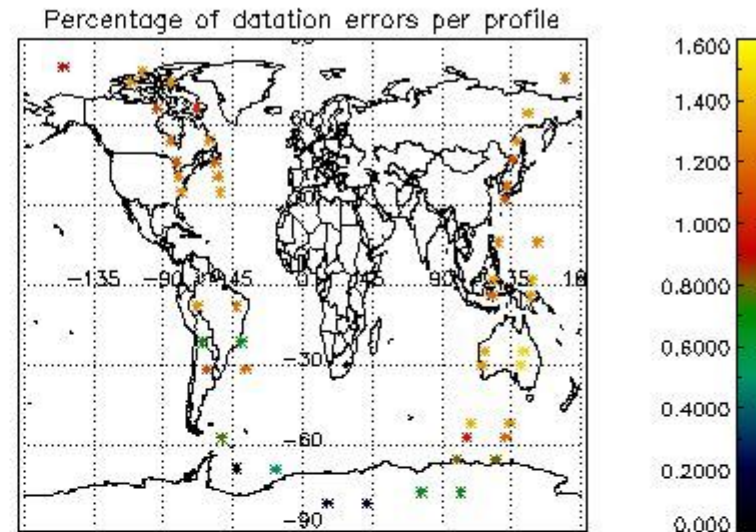
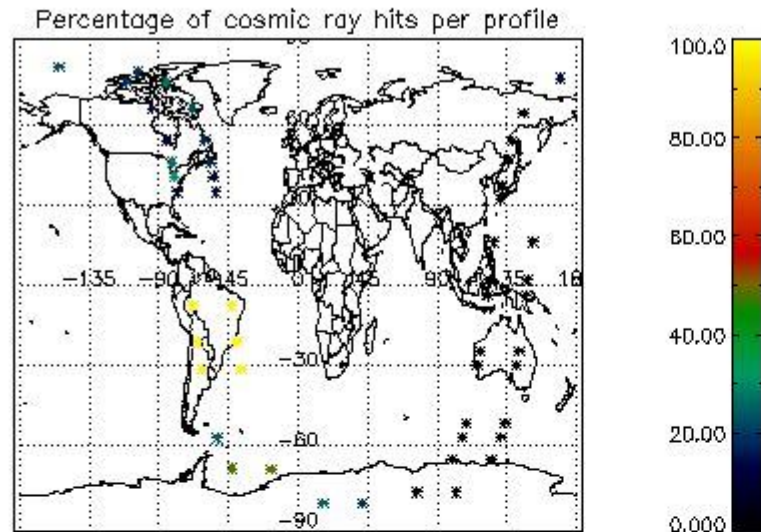
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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)



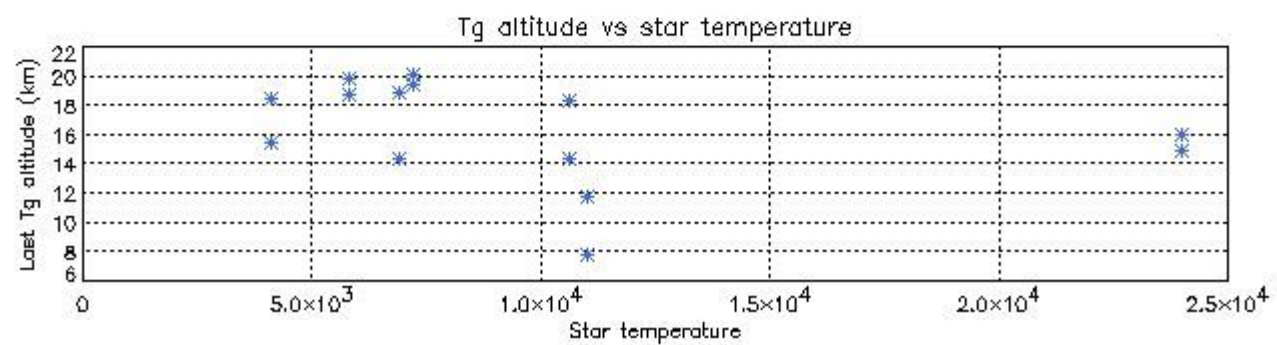
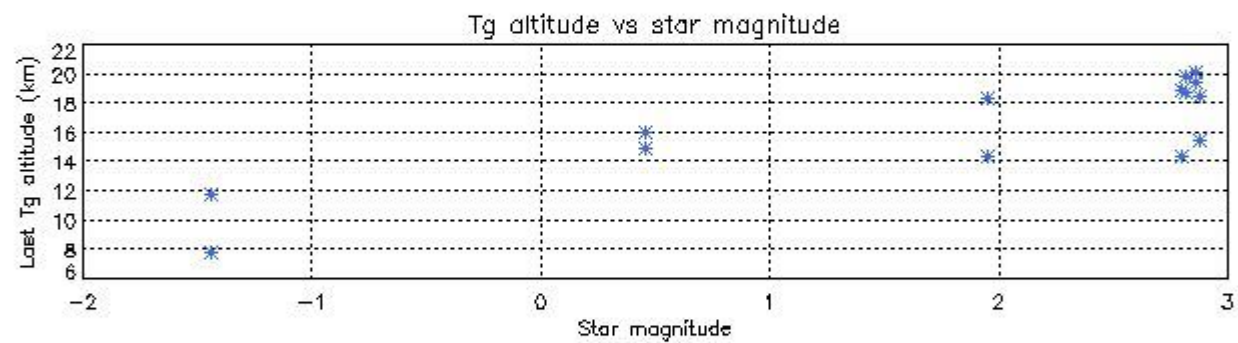
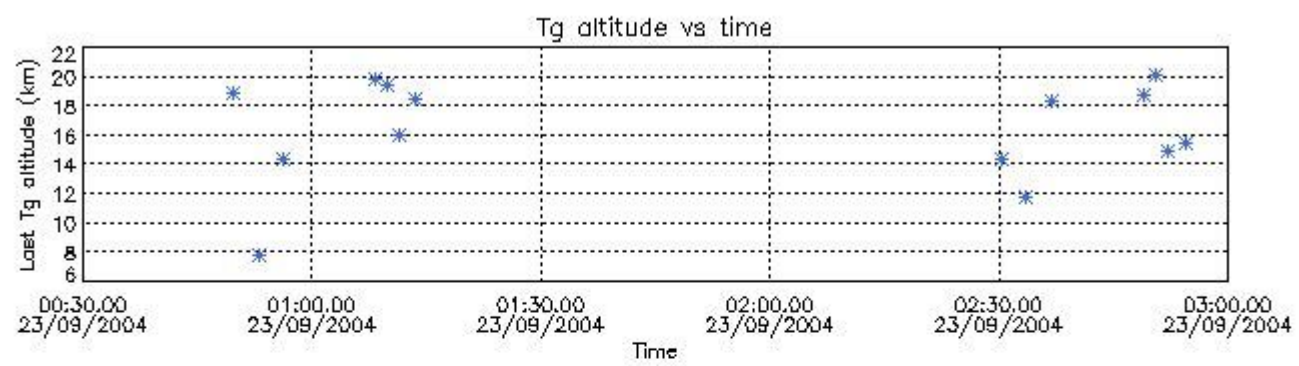
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.272	19.170	15.760
St. deviation:	3.5366	5.0952	11.836
Maximum:	20.049	29.126	33.088
Minimum:	7.7178	4.1123	6.1189
Number of data:	14.000	28.000	7.0000

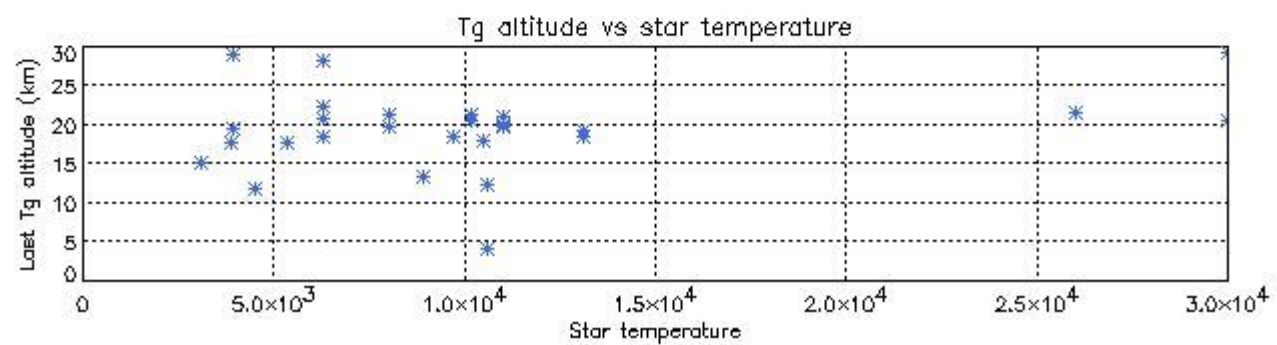
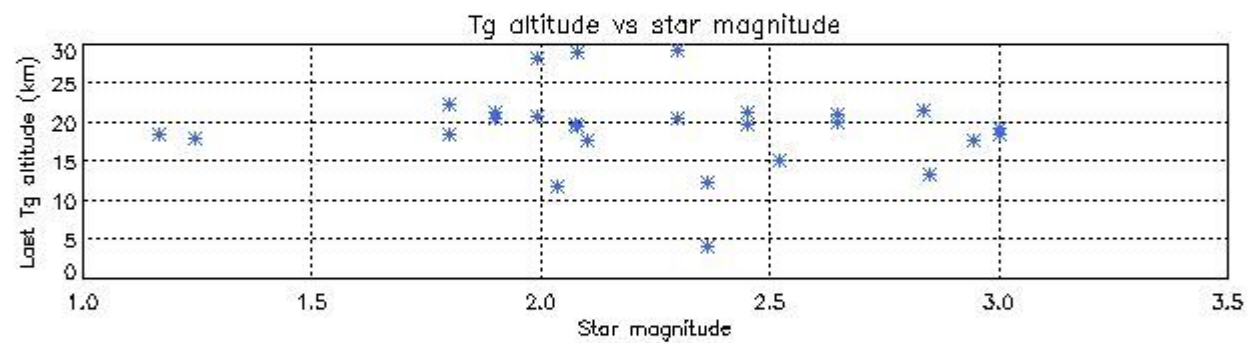
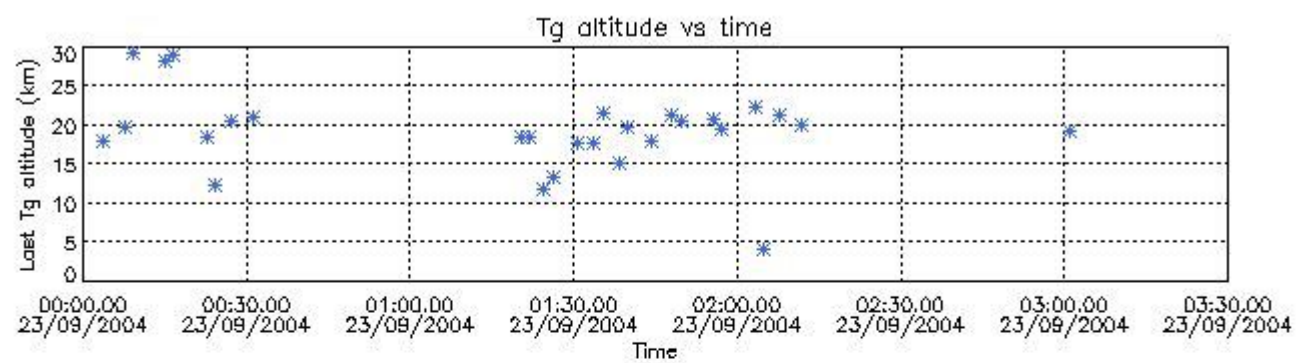
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



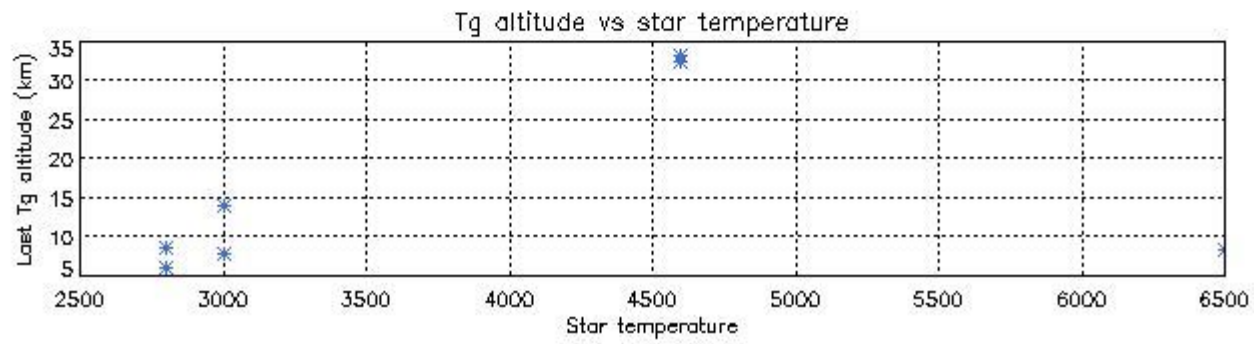
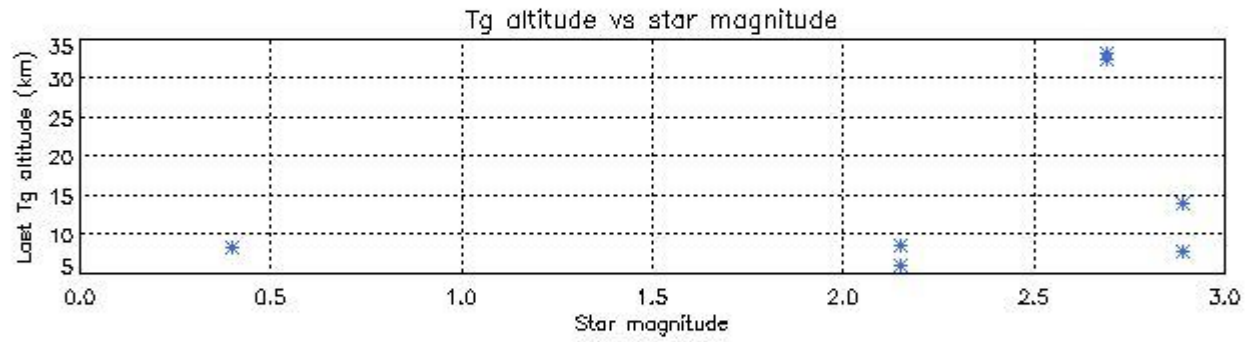
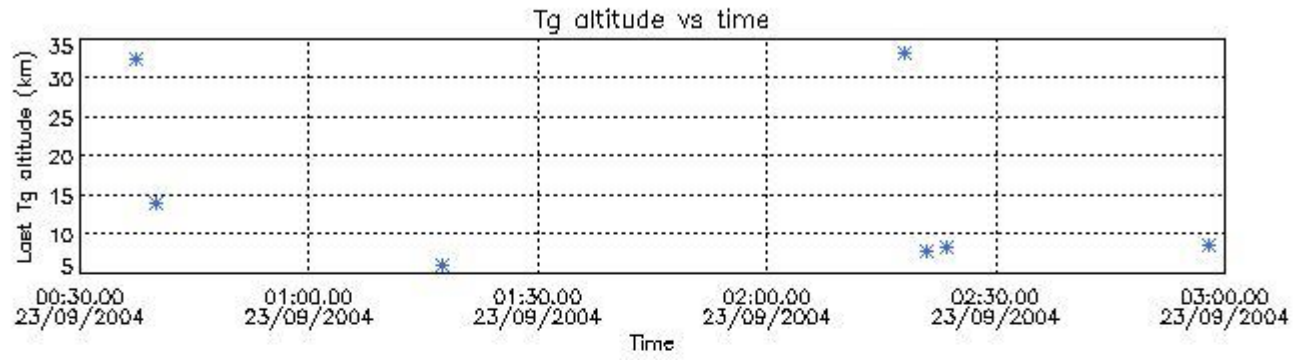
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

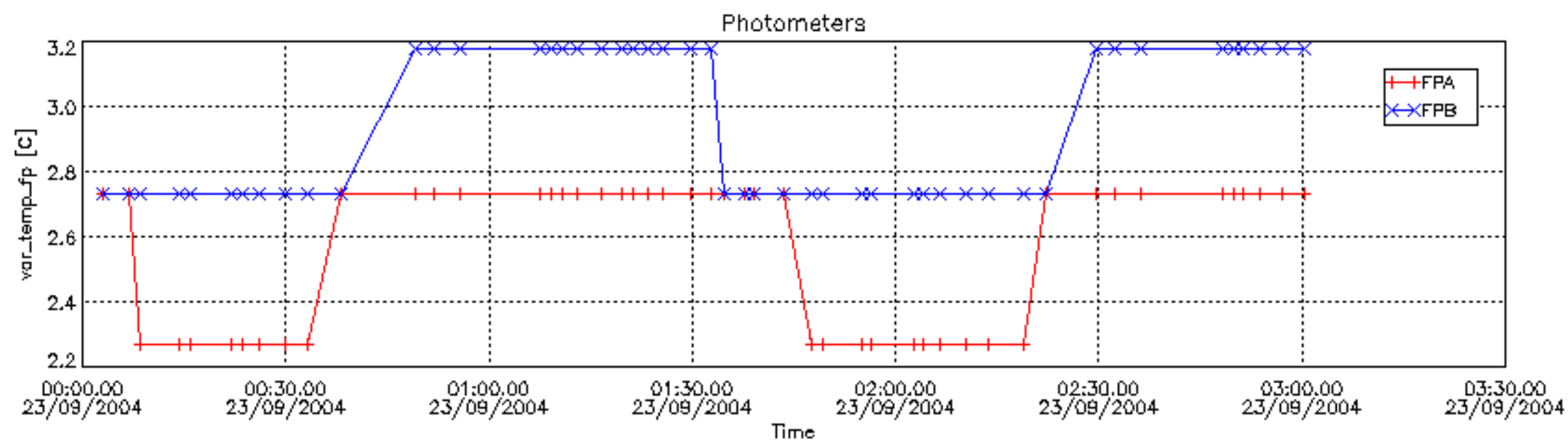
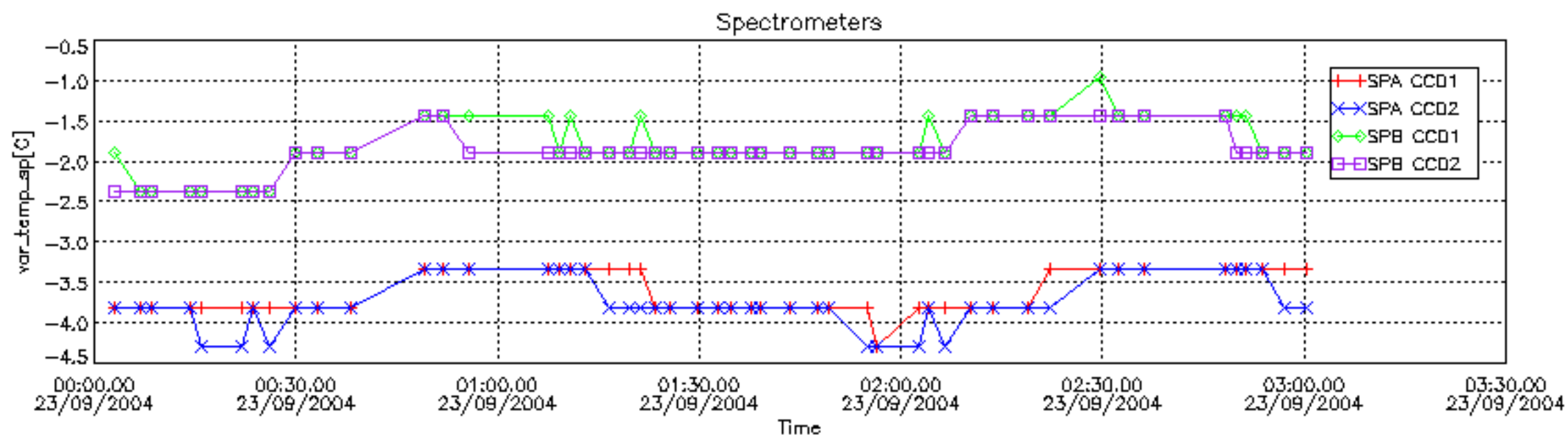
Tangent altitude at which the star is lost

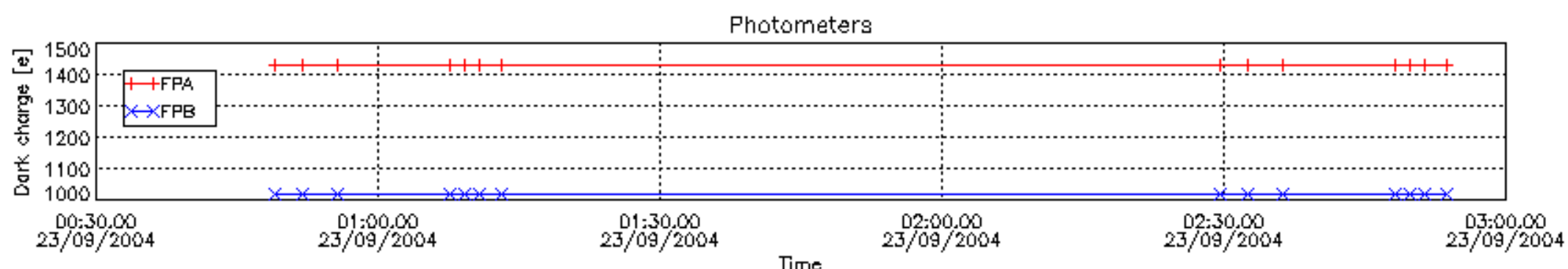
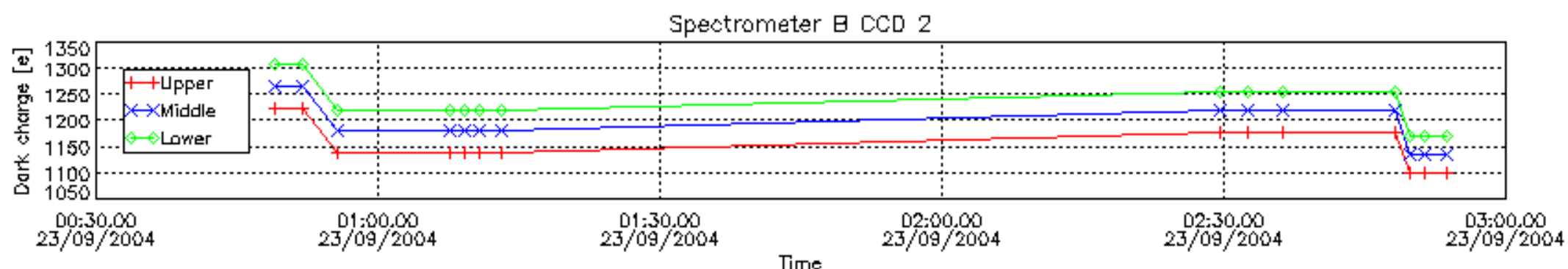
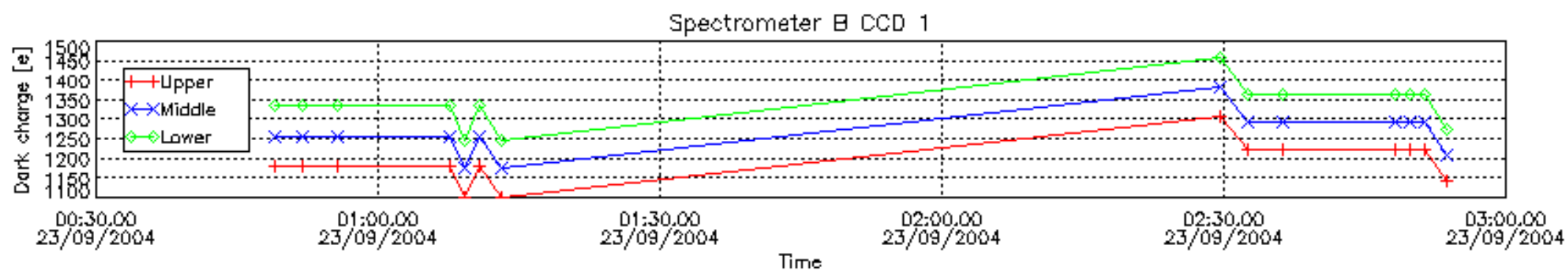
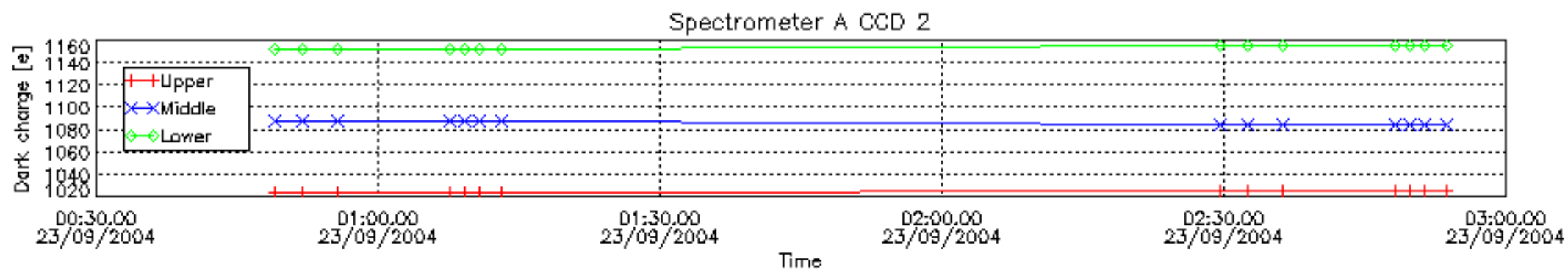
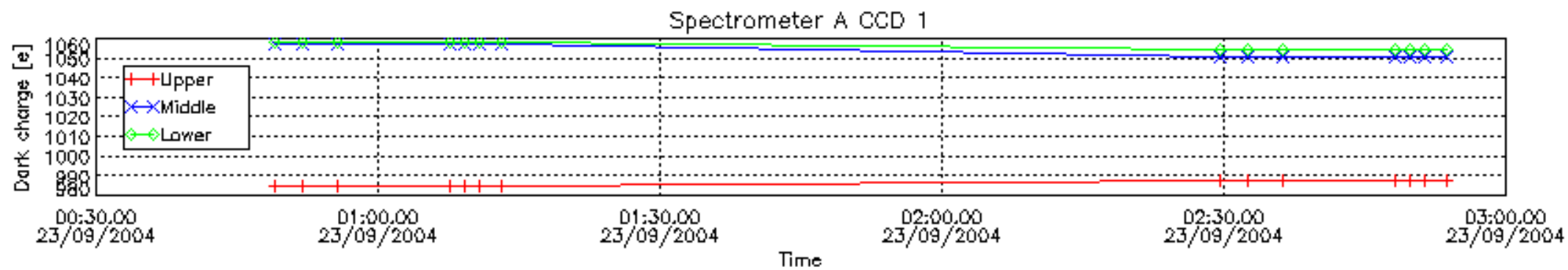


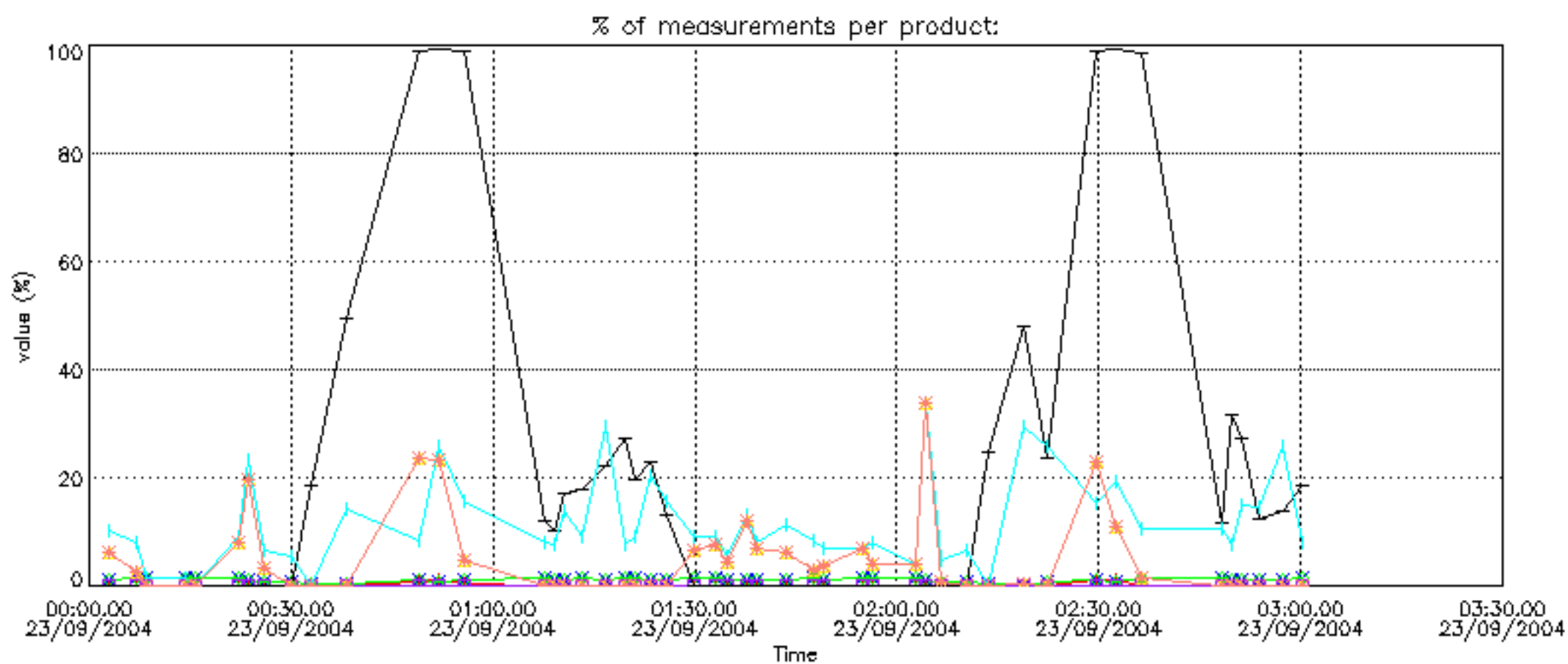
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

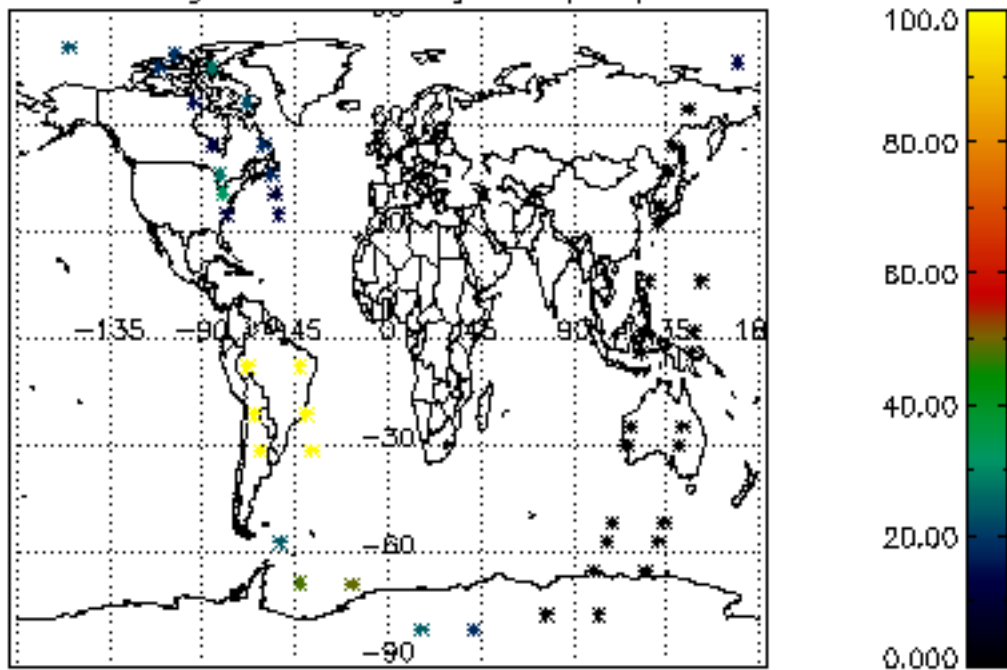
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.2	1446.7	1460.3	1447.4
St. deviation:	5.3018	6.1808	6.8469	7.6327
Maximum:	1550.0	1654.0	1518.0	1501.0
Minimum:	1447.0	1421.0	1414.0	1395.0
Number of data:	15400.	15400.	30150.	30150.



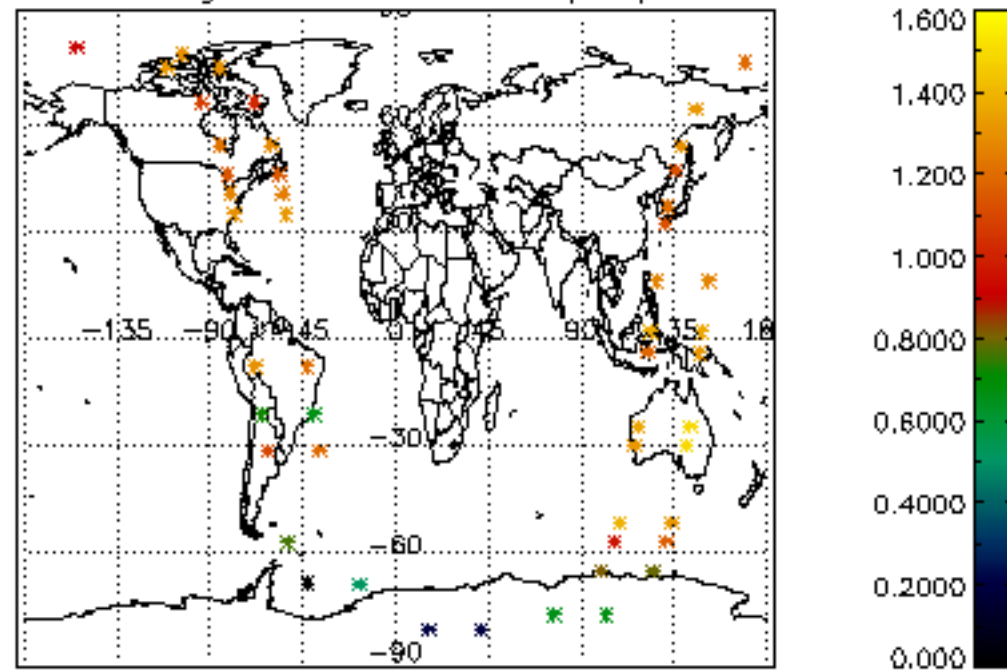




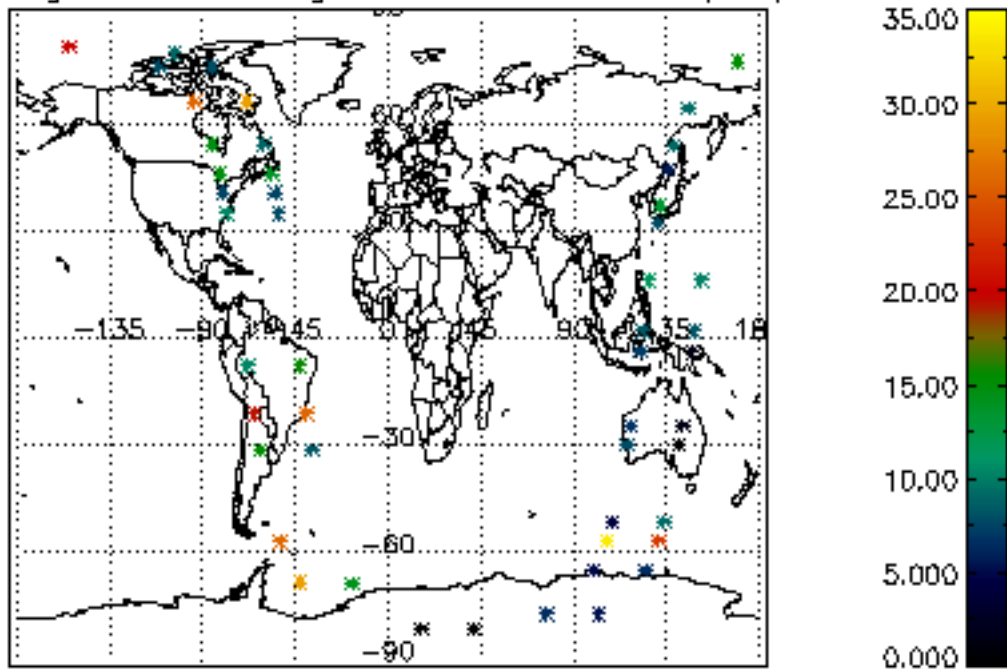
Percentage of cosmic ray hits per profile



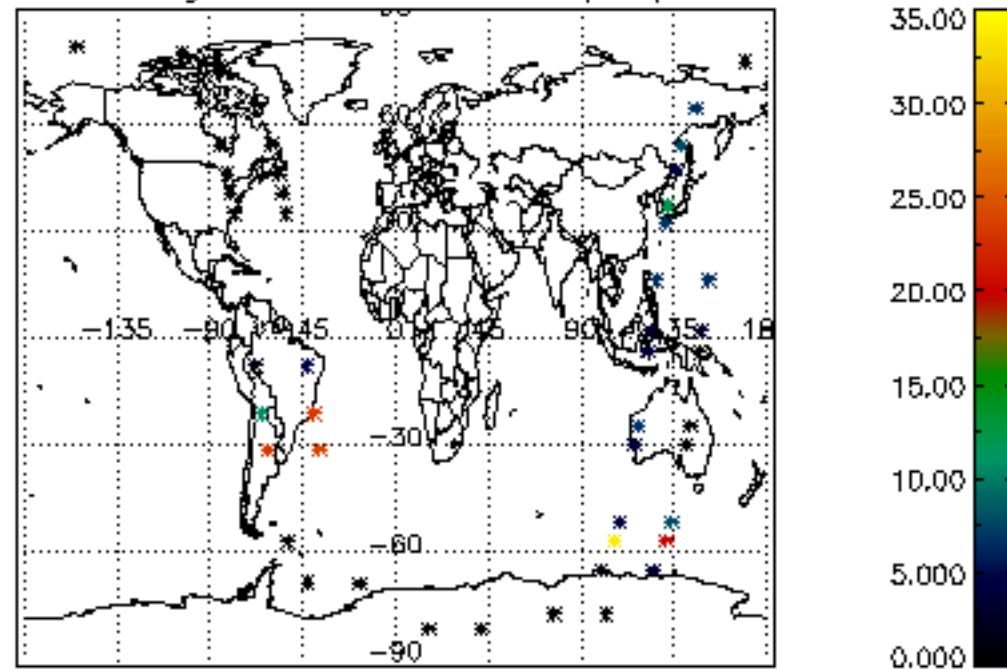
Percentage of datation errors per profile



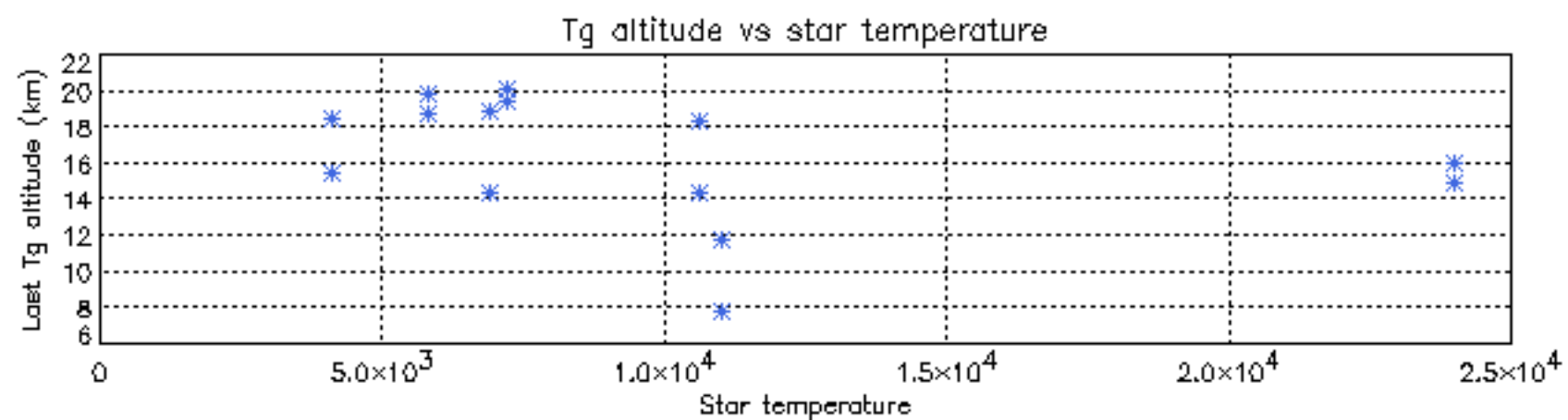
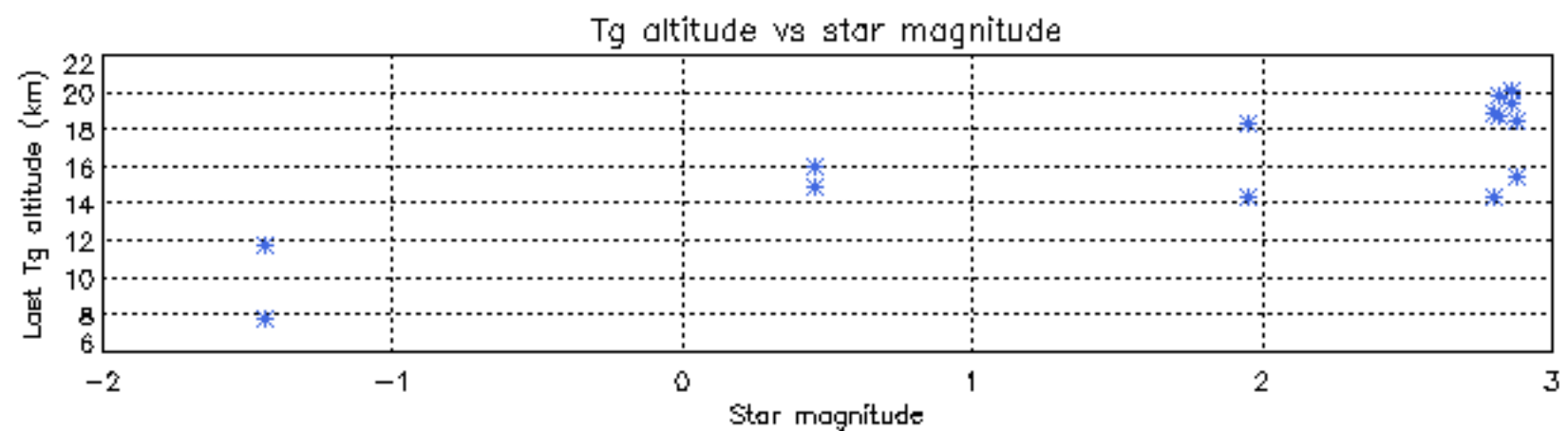
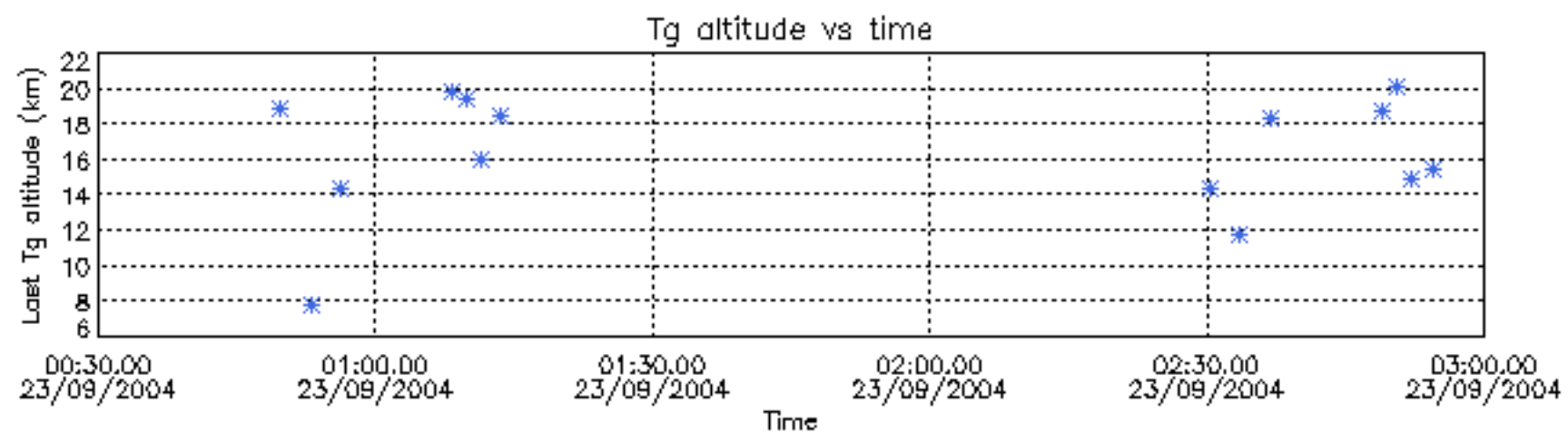
Percentage of star falling outside central band per profile



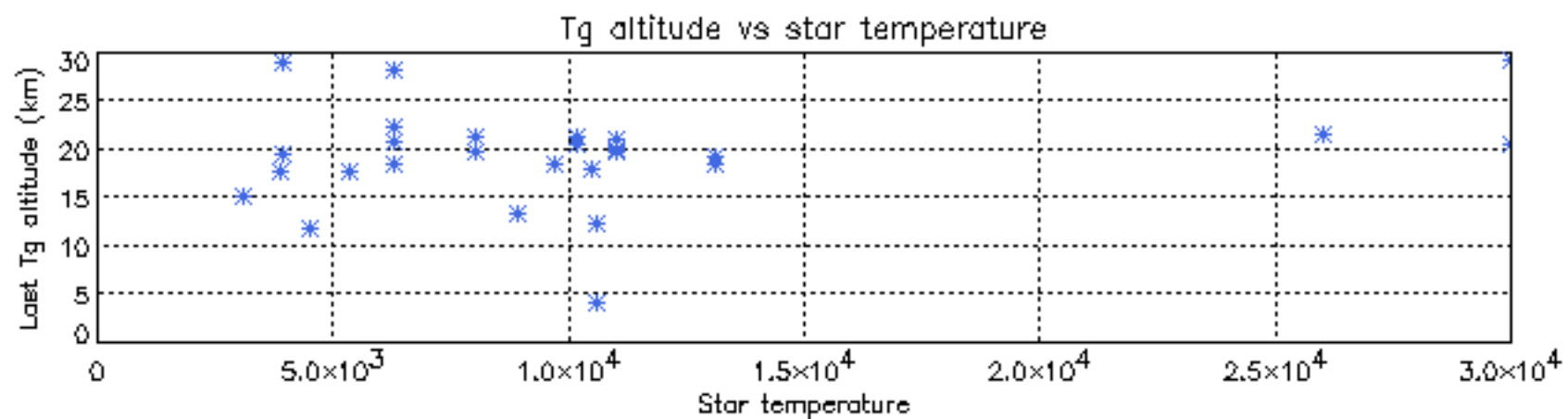
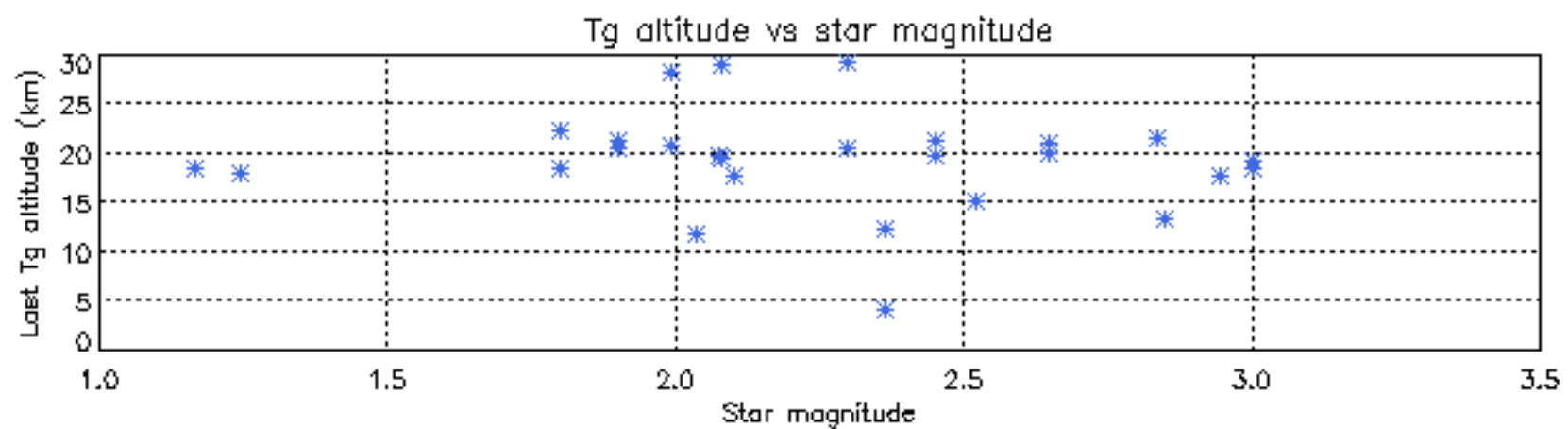
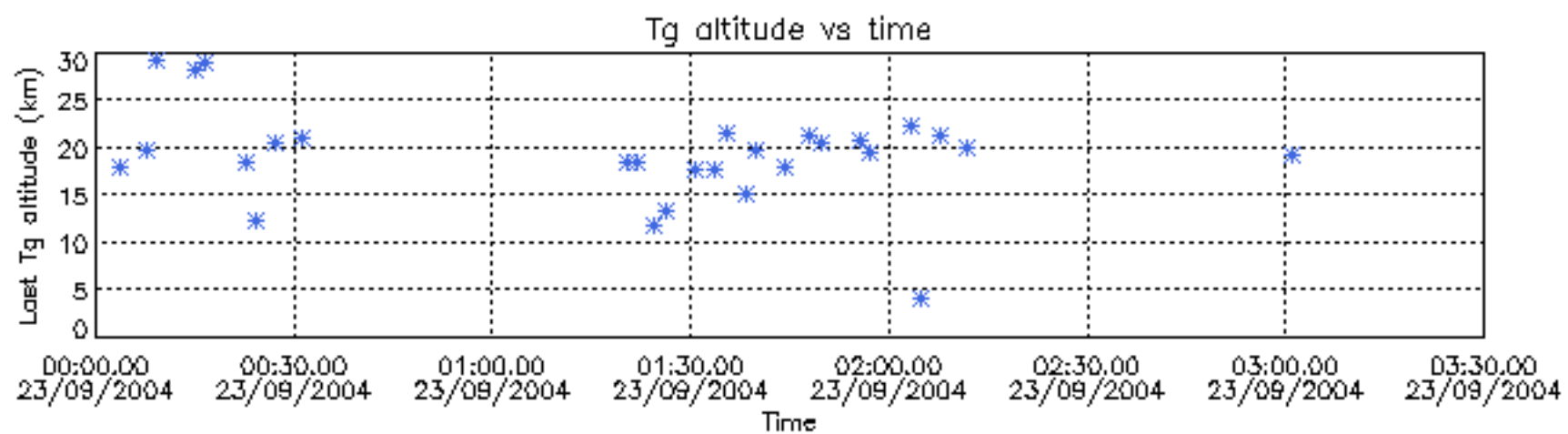
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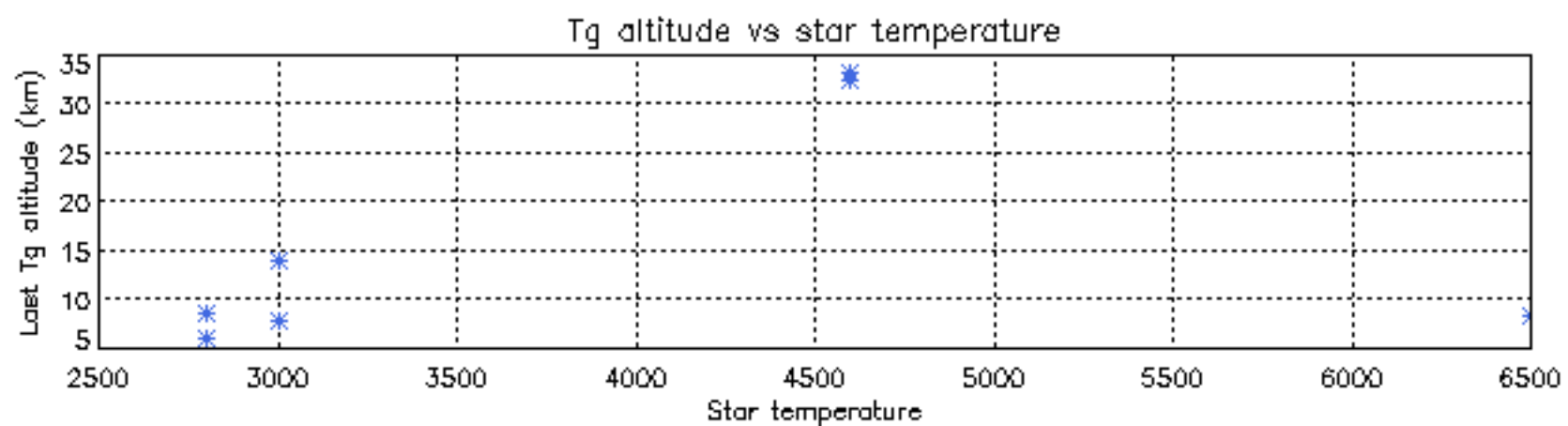
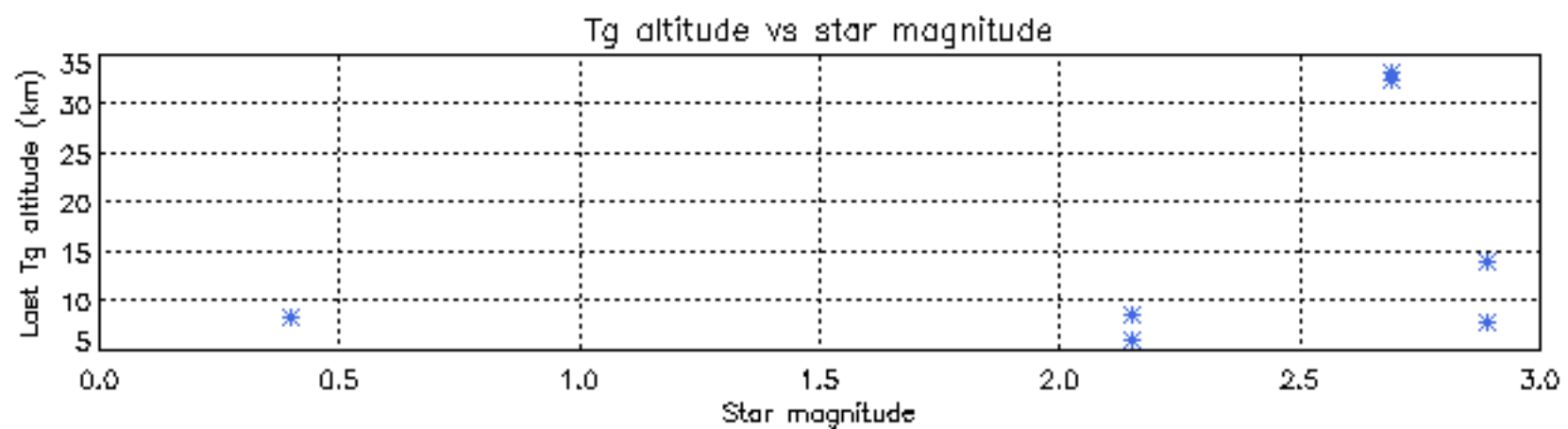
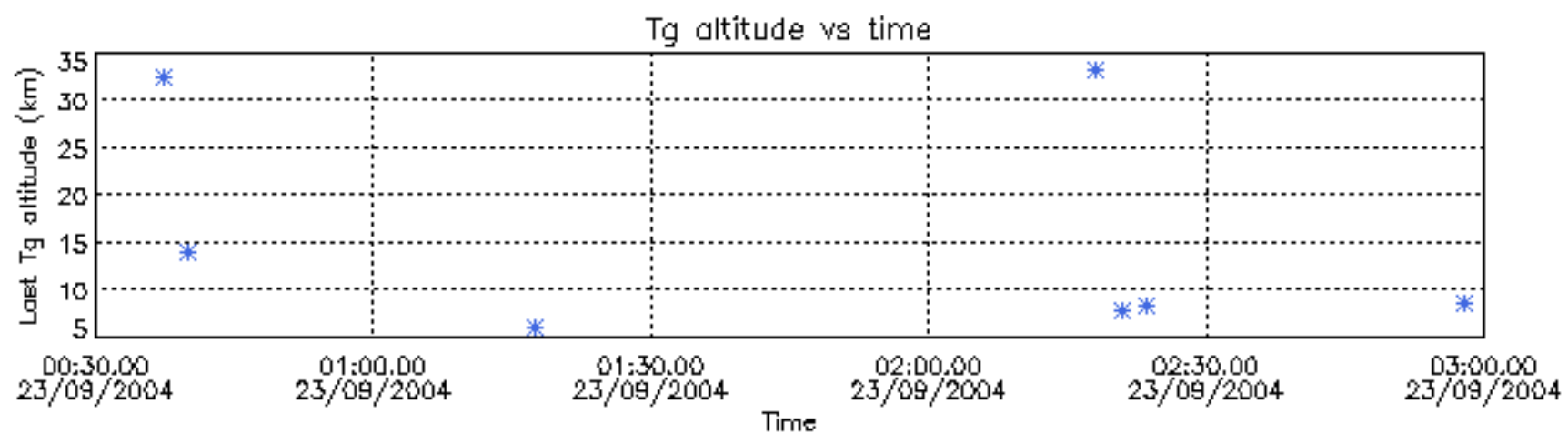
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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27; 602.6; 30-SEP-2004 20:54:58; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13524
28; 731.1; 30-SEP-2004 20:57:07; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13524
29; 816.0; 30-SEP-2004 20:58:32; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;13524
30; 913.9; 30-SEP-2004 21:00:10; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13524

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