

GOMOS Daily Report 08-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	17SEP2004 10:18:58
Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-9D (08SEP2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-9D (09SEP2004 00:00:00)

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

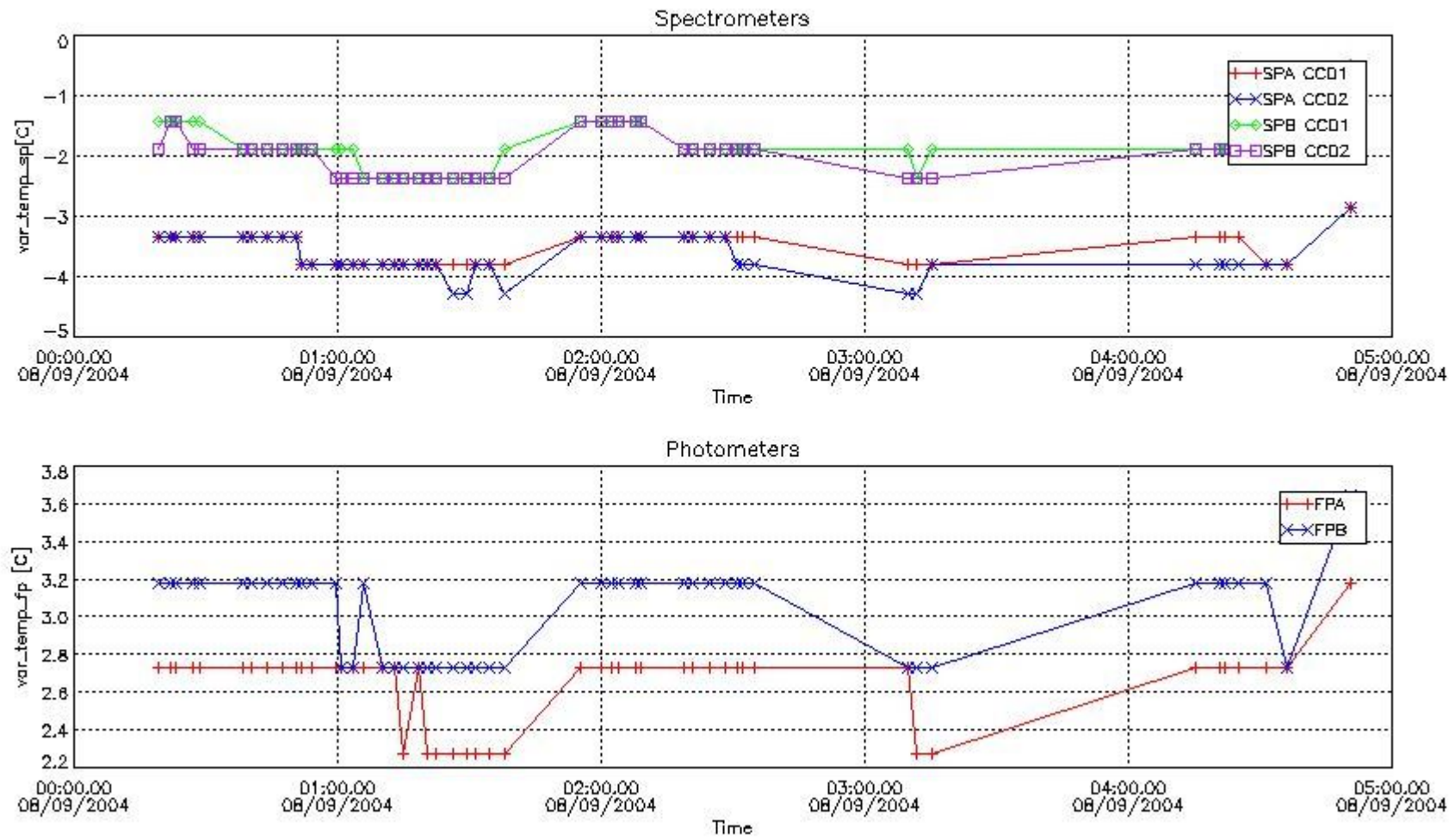
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040908_001919_000000562030_00116_13196_0000.N1	08-SEP-2004 00:19:19	Dark	56.000	1	9Alp CMa	-1.4400	11000.	112	13196	No
GOM_TRA_1PNPDE20040908_002151_000000472030_00116_13196_0001.N1	08-SEP-2004 00:21:51	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	13196	No
GOM_TRA_1PNPDE20040908_002312_000000472030_00116_13196_0002.N1	08-SEP-2004 00:23:12	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	13196	No
GOM_TRA_1PNPDE20040908_002712_000000422030_00116_13196_0003.N1	08-SEP-2004 00:27:12	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	13196	No
GOM_TRA_1PNPDE20040908_002826_000000542030_00116_13196_0004.N1	08-SEP-2004 00:28:26	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	13196	No
GOM_TRA_1PNPDE20040908_003820_000000382030_00117_13197_0005.N1	08-SEP-2004 00:38:20	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	13197	No
GOM_TRA_1PNPDE20040908_004013_000000472030_00117_13197_0006.N1	08-SEP-2004 00:40:13	Dark	47.000	9	Alp Eri	0.45300	24000.	94	13197	No
GOM_TRA_1PNPDE20040908_004354_000000432030_00117_13197_0007.N1	08-SEP-2004 00:43:54	Dark	43.000	148	Alp Tuc	2.8780	4100.0	86	13197	No
GOM_TRA_1PNPDE20040908_004735_000000402030_00117_13197_0008.N1	08-SEP-2004 00:47:35	Twilight	39.500	31	Alp Gru	1.7340	15200.	79	13197	No
GOM_TRA_1PNPDE20040908_005023_000000412030_00117_13197_0009.N1	08-SEP-2004 00:50:23	Bright	40.500	172	Gam Gru	3.0030	13100.	81	13197	No
GOM_TRA_1PNPDE20040908_005143_000000492030_00117_13197_0010.N1	08-SEP-2004 00:51:43	Bright	49.000	18	24Alp PsA	1.1660	9700.0	98	13197	No
GOM_TRA_1PNPDE20040908_005418_000000722030_00117_13197_0011.N1	08-SEP-2004 00:54:18	Bright	72.000	52	16Bet Cet	2.0370	4500.0	144	13197	No
GOM_TRA_1PNPDE20040908_005926_000000382030_00117_13197_0012.N1	08-SEP-2004 00:59:26	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	13197	No
GOM_TRA_1PNPDE20040908_010044_000000402030_00117_13197_0013.N1	08-SEP-2004 01:00:44	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13197	No
GOM_TRA_1PNPDE20040908_010342_000000392030_00117_13197_0014.N1	08-SEP-2004 01:03:42	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	13197	No
GOM_TRA_1PNPDE20040908_010553_000000442030_00117_13197_0015.N1	08-SEP-2004 01:05:53	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	13197	No
GOM_TRA_1PNPDE20040908_011007_000000412030_00117_13197_0016.N1	08-SEP-2004 01:10:07	Bright	41.000	164	44Eta Peg	2.9480	5400.0	82	13197	No
GOM_TRA_1PNPDE20040908_011247_000000372030_00117_13197_0017.N1	08-SEP-2004 01:12:47	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	13197	No
GOM_TRA_1PNPDE20040908_011443_000000362030_00117_13197_0018.N1	08-SEP-2004 01:14:43	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	13197	No
GOM_TRA_1PNPDE20040908_011837_000000372030_00117_13197_0019.N1	08-SEP-2004 01:18:37	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	13197	No
GOM_TRA_1PNPDE20040908_012029_000000442030_00117_13197_0020.N1	08-SEP-2004 01:20:29	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	13197	No
GOM_TRA_1PNPDE20040908_012228_000000432030_00117_13197_0021.N1	08-SEP-2004 01:22:28	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	13197	No
GOM_TRA_1PNPDE20040908_012620_000000362030_00117_13197_0022.N1	08-SEP-2004 01:26:20	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	13197	No
GOM_TRA_1PNPDE20040908_012915_000000582030_00117_13197_0023.N1	08-SEP-2004 01:29:15	Bright	57.500	160	23Gam Per	2.9300	4700.0	115	13197	No
GOM_TRA_1PNPDE20040908_013122_000000682030_00117_13197_0024.N1	08-SEP-2004 01:31:22	Bright	67.500	35	33Alp Per	1.7950	6250.0	135	13197	No
GOM_TRA_1PNPDE20040908_013438_000000462030_00117_13197_0025.N1	08-SEP-2004 01:34:38	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	13197	No
GOM_TRA_1PNPDE20040908_013751_000000632030_00117_13197_0026.N1	08-SEP-2004 01:37:51	Bright	62.500	6	13Alp Aur	0.080000	3400.0	125	13197	No
GOM_TRA_1PNPDE20040908_015522_000000832030_00117_13197_0000.N1	08-SEP-2004 01:55:22	Dark	83.000	14	58Alp Ori	0.87000	3000.0	166	13197	No
GOM_TRA_1PNPDE20040908_015956_000000552030_00117_13197_0001.N1	08-SEP-2004 01:59:56	Dark	55.000	1	9Alp CMa	-1.4400	11000.	110	13197	No
GOM_TRA_1PNPDE20040908_020228_000000492030_00117_13197_0002.N1	08-SEP-2004 02:02:28	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	13197	No
GOM_TRA_1PNPDE20040908_020349_000000432030_00117_13197_0003.N1	08-SEP-2004 02:03:49	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	13197	No
GOM_TRA_1PNPDE20040908_020749_000000452030_00117_13197_0004.N1	08-SEP-2004 02:07:49	Dark	44.500	161	Tau Pup	2.9310	4500.0	89	13197	No
GOM_TRA_1PNPDE20040908_020903_000000552030_00117_13197_0005.N1	08-SEP-2004 02:09:03	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	13197	No
GOM_TRA_1PNPDE20040908_021856_000000382030_00118_13198_0006.N1	08-SEP-2004 02:18:56	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	13198	No
GOM_TRA_1PNPDE20040908_022049_000000482030_00118_13198_0007.N1	08-SEP-2004 02:20:49	Dark	48.000	9	Alp Eri	0.45300	24000.	96	13198	No
GOM_TRA_1PNPDE20040908_022430_000000422030_00118_13198_0008.N1	08-SEP-2004 02:24:30	Dark	42.000	148	Alp Tuc	2.8780	4100.0	84	13198	No
GOM_TRA_1PNPDE20040908_022810_000000422030_00118_13198_0009.N1	08-SEP-2004 02:28:10	Twilight	41.500	31	Alp Gru	1.7340	15200.	83	13198	No
GOM_TRA_1PNPDE20040908_023059_000000392030_00118_13198_0010.N1	08-SEP-2004 02:30:59	Bright	39.000	172	Gam Gru	3.0030	13100.	78	13198	No
GOM_TRA_1PNPDE20040908_023219_000000472030_00118_13198_0011.N1	08-SEP-2004 02:32:19	Bright	47.000	18	24Alp PsA	1.1660	9700.0	94	13198	No
GOM_TRA_1PNPDE20040908_023453_000000762030_00118_13198_0012.N1	08-SEP-2004 02:34:53	Bright	76.000	52	16Bet Cet	2.0370	4500.0	152	13198	No
GOM_TRA_1PNPDE20040908_030949_000000602030_00118_13198_0000.N1	08-SEP-2004 03:09:49	Bright	60.000	160	23Gam Per	2.9300	4700.0	120	13198	No
GOM_TRA_1PNPDE20040908_031157_000000692030_00118_13198_0001.N1	08-SEP-2004 03:11:57	Bright	69.000	35	33Alp Per	1.7950	6250.0	138	13198	No
GOM_TRA_1PNPDE20040908_031514_000000372030_00118_13198_0002.N1	08-SEP-2004 03:15:14	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	13198	No
GOM_TRA_1PNPDE20040908_041527_000000792030_00119_13199_0021.N1	08-SEP-2004 04:15:27	Bright	79.000	52	16Bet Cet	2.0370	4500.0	158	13199	No
GOM_TRA_1PNPDE20040908_042038_000000402030_00119_13199_0022.N1	08-SEP-2004 04:20:38	Bright	40.000	154	22Bet Aqr	2.8990	5700.0	80	13199	No
GOM_TRA_1PNPDE20040908_042156_000000402030_00119_13199_0023.N1	08-SEP-2004 04:21:56	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	13199	No
GOM_TRA_1PNPDE20040908_042454_000000402030_00119_13199_0024.N1	08-SEP-2004 04:24:54	Bright	40.000	61	8Eps Peg	2.1000	3900.0	80	13199	No
GOM_TRA_1PNPDE20040908_043117_000000422030_00119_13199_0026.N1	08-SEP-2004 04:31:17	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	13199	No
GOM_TRA_1PNPDE20040908_043555_000000372030_00119_13199_0028.N1	08-SEP-2004 04:35:55	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	13199	No

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

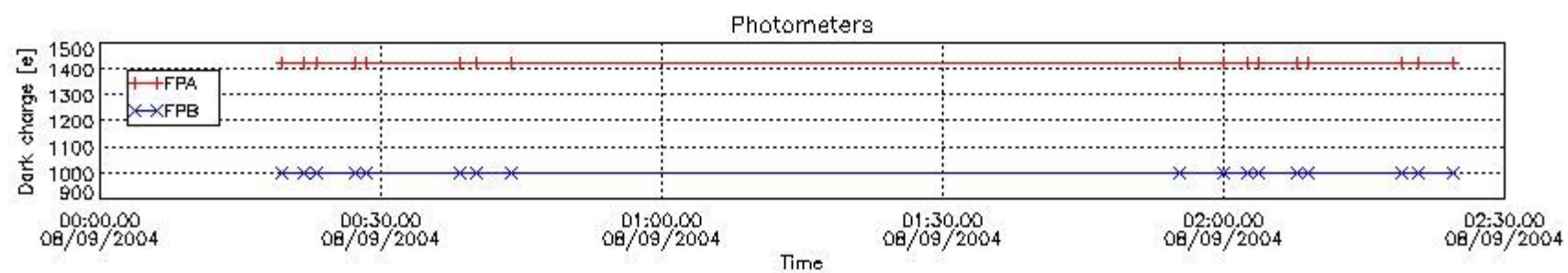
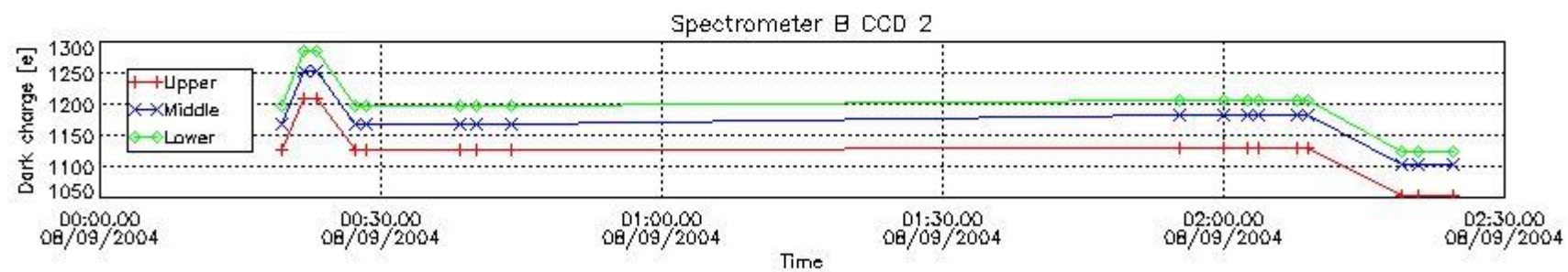
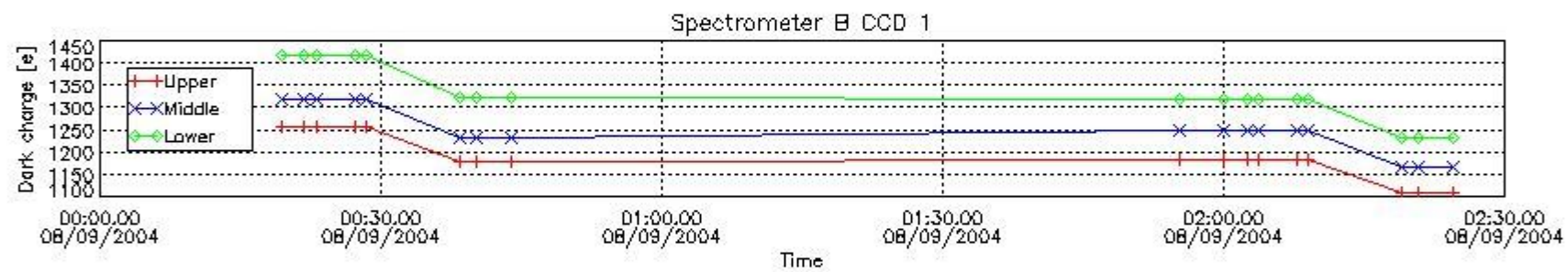
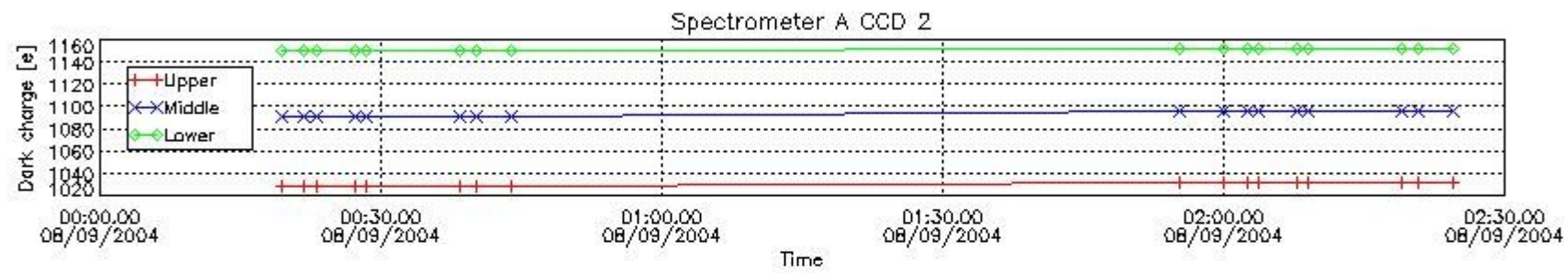
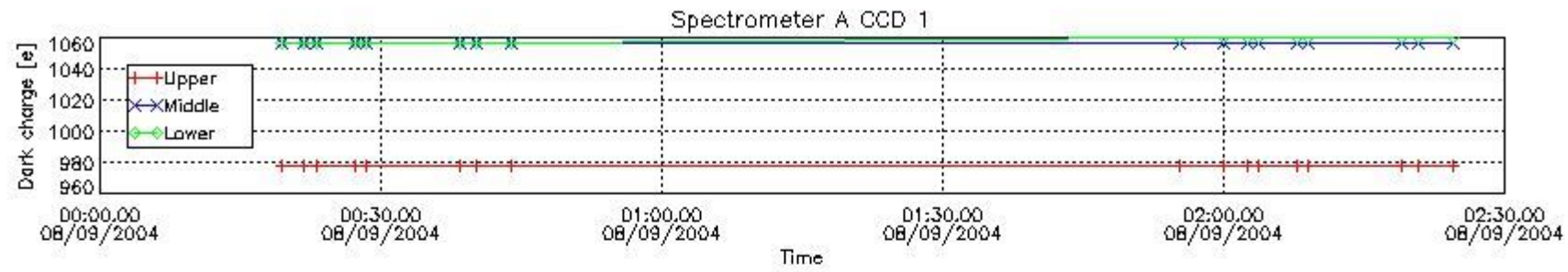


4. Overview of dark signal processing per product

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



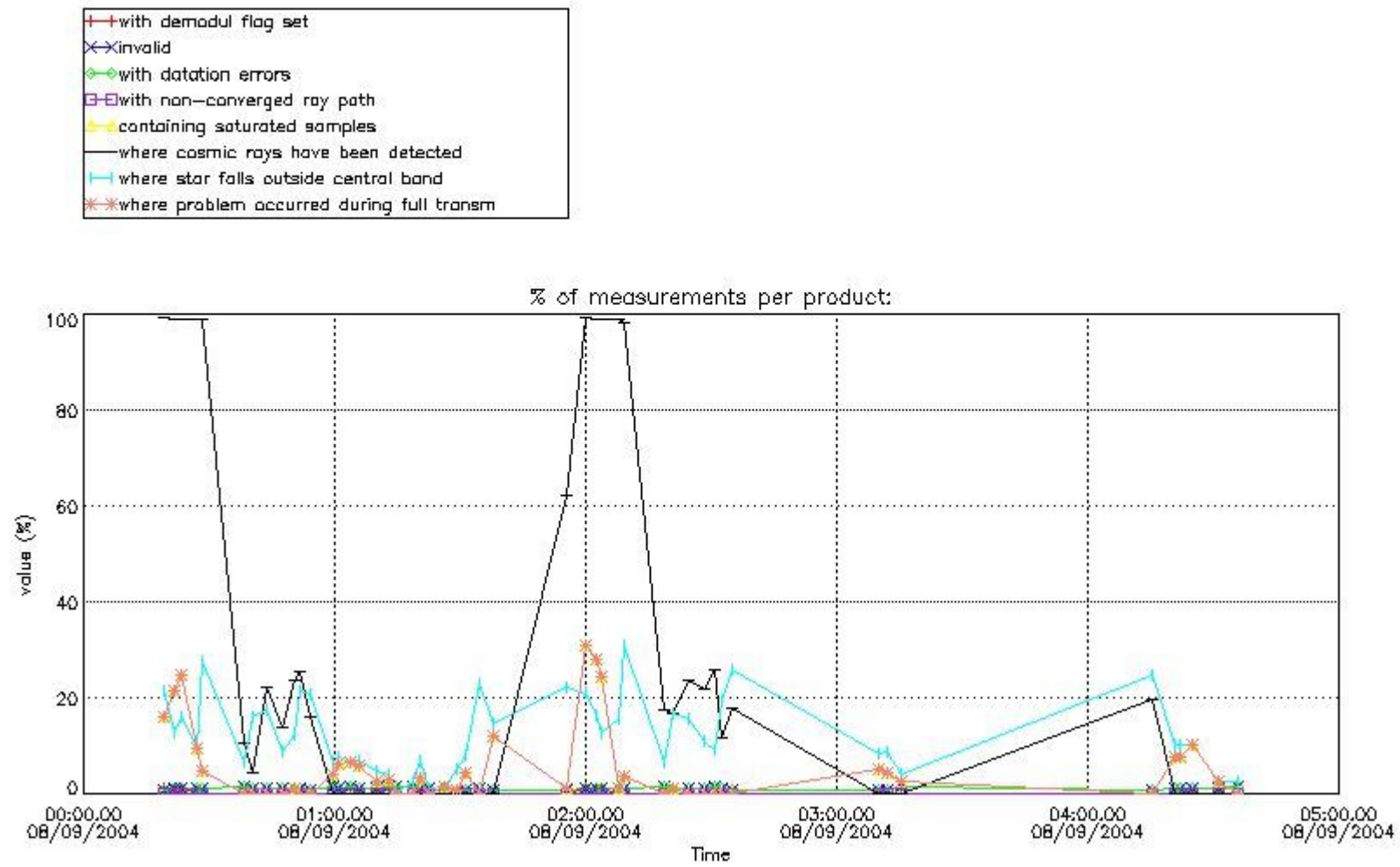
5. Demodulation flag and quality information monitoring

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.

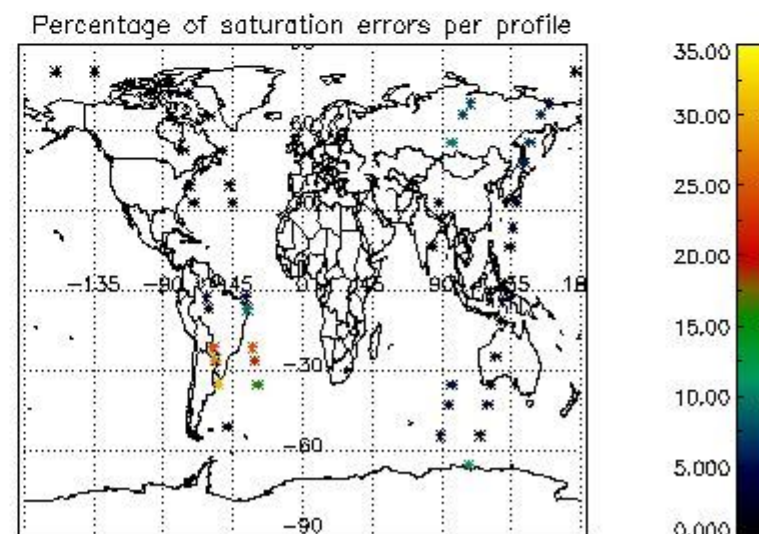
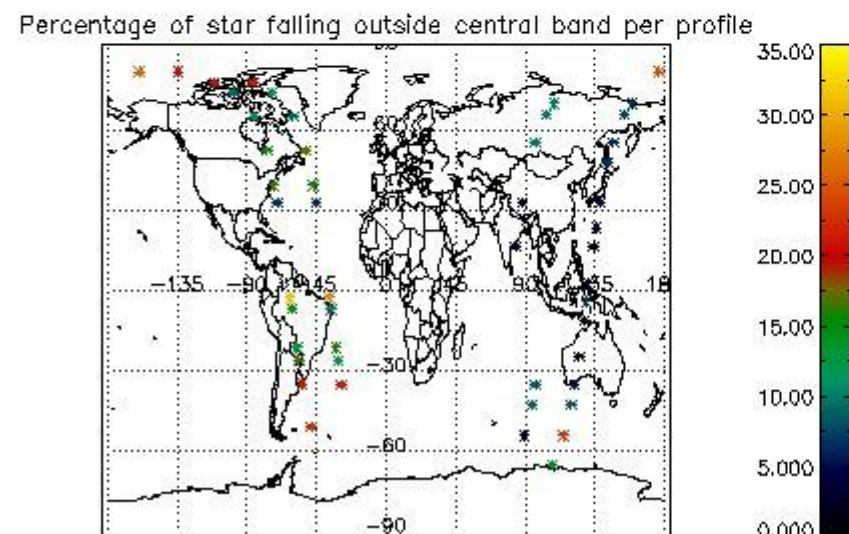
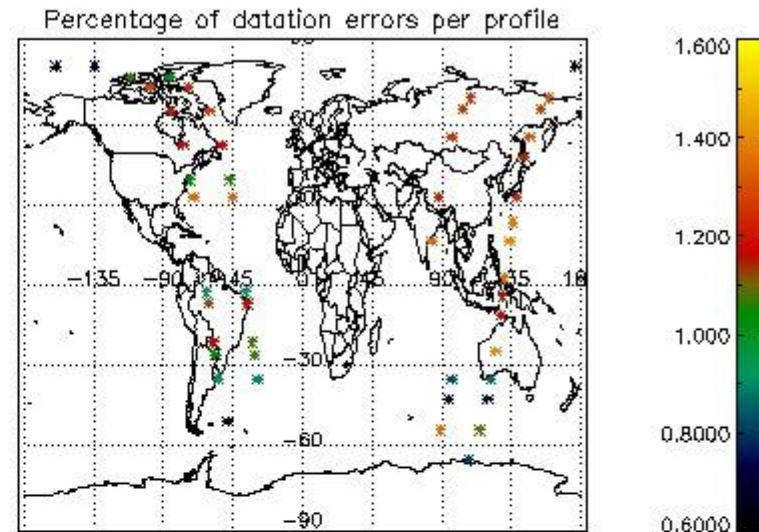
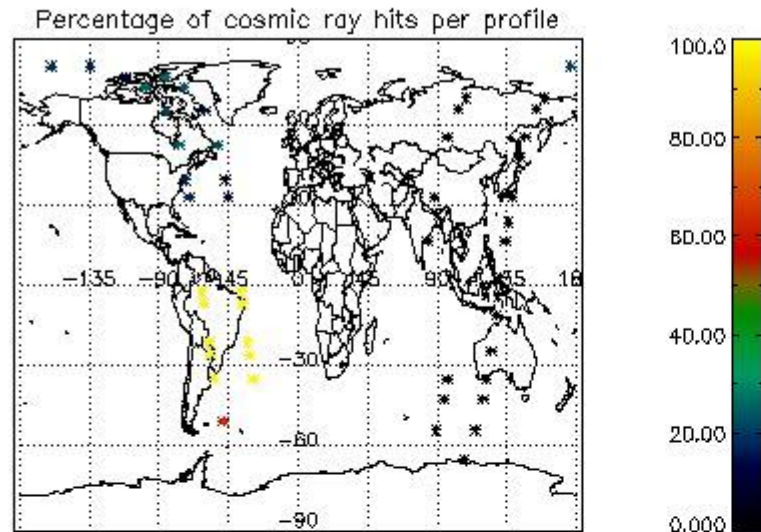
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.4898 %
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)



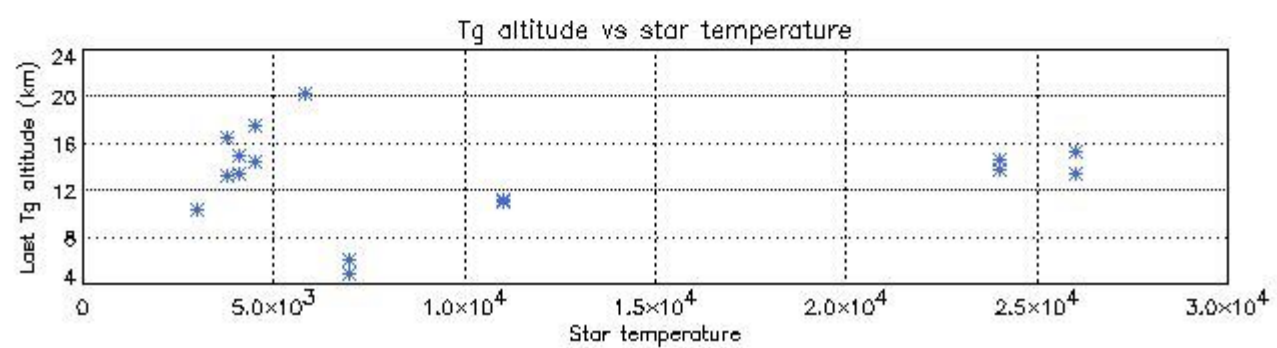
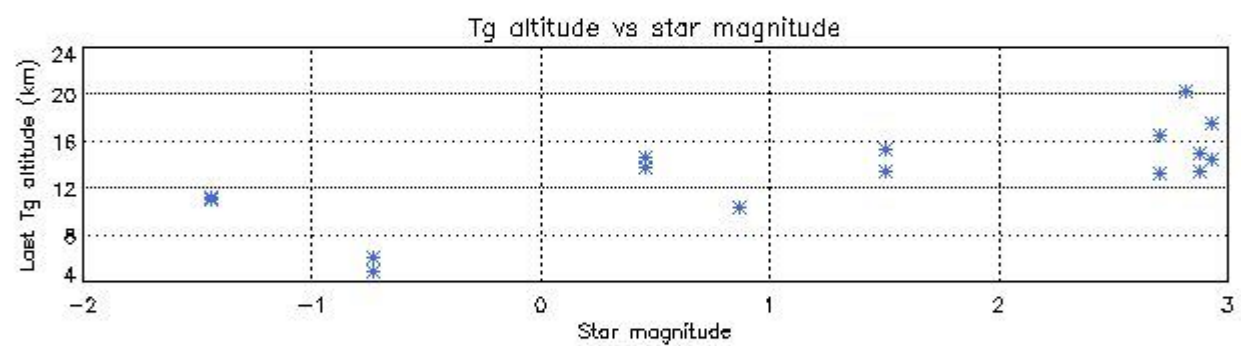
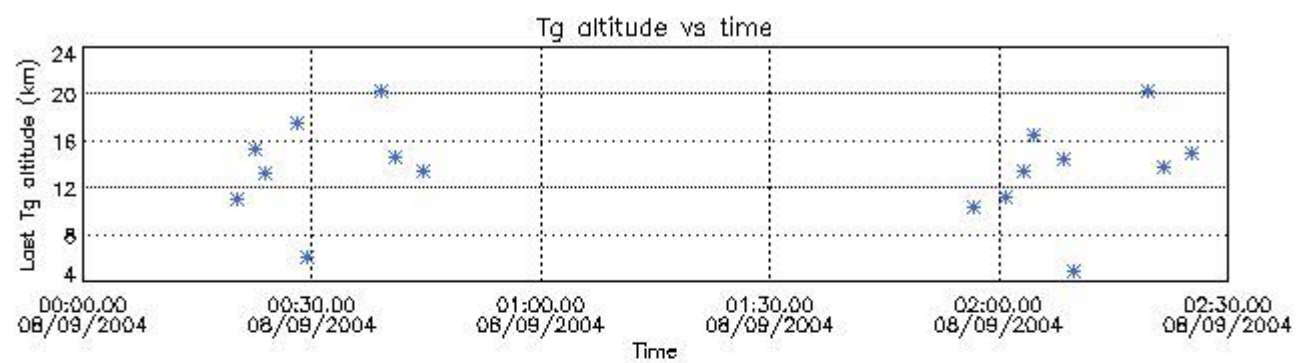
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.592	18.712	17.796
St. deviation:	4.1269	5.1289	1.0324
Maximum:	20.249	27.245	18.526
Minimum:	4.9297	8.7615	17.066
Number of data:	17.000	30.000	2.0000

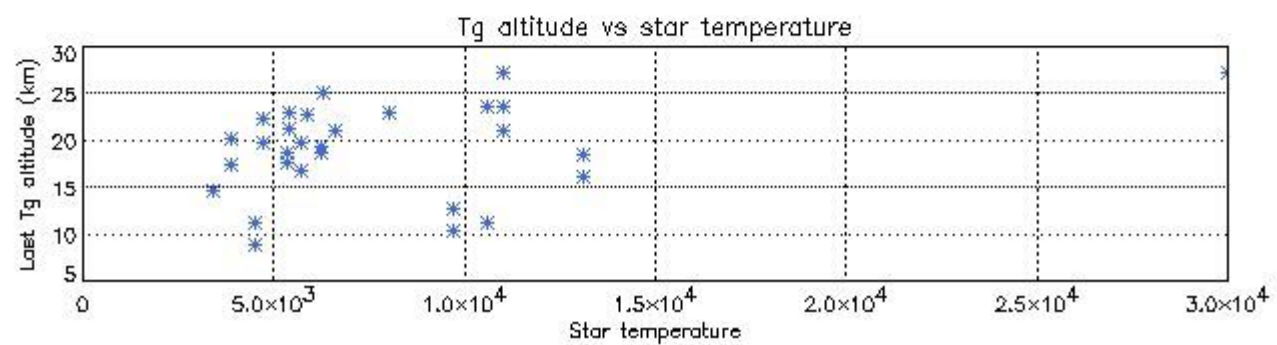
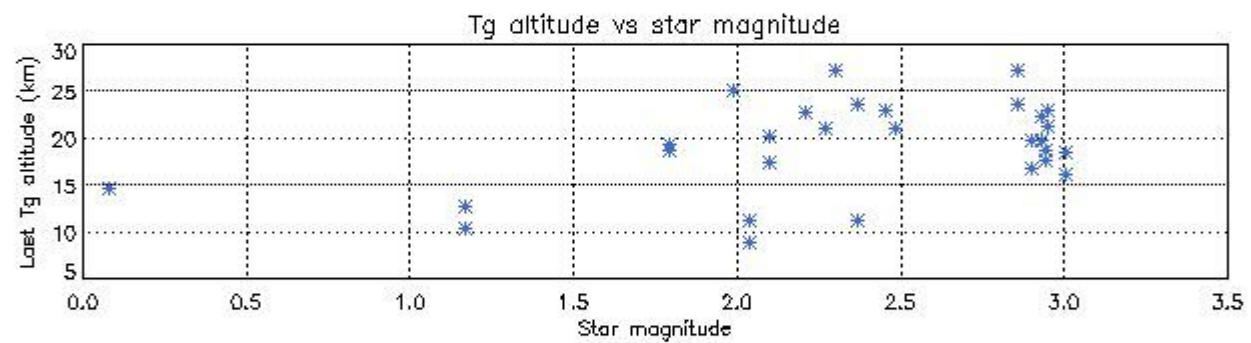
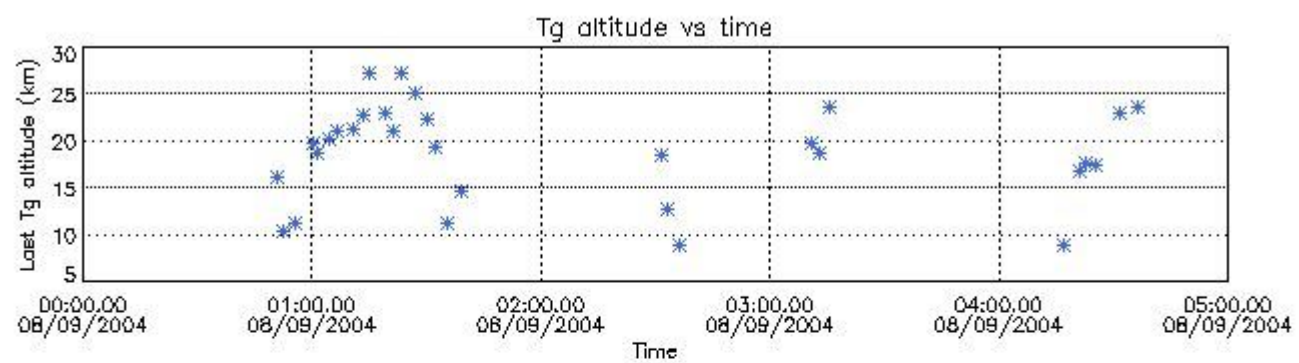
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



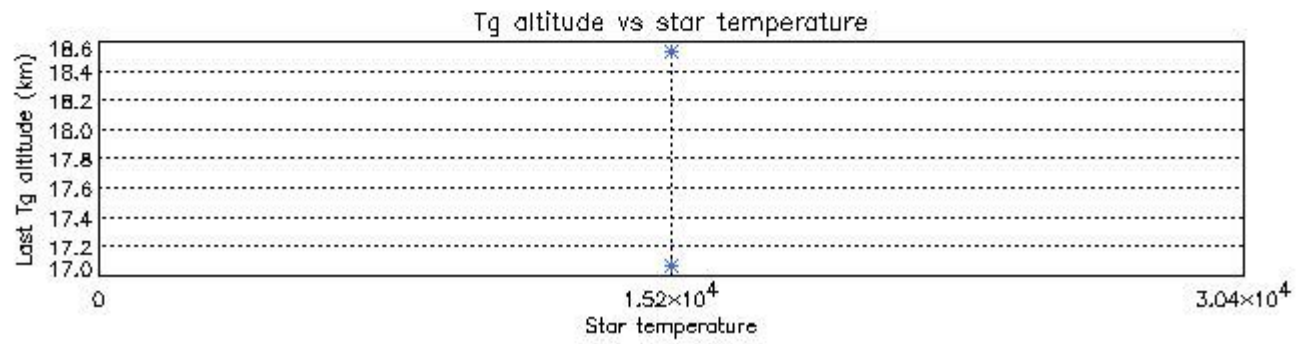
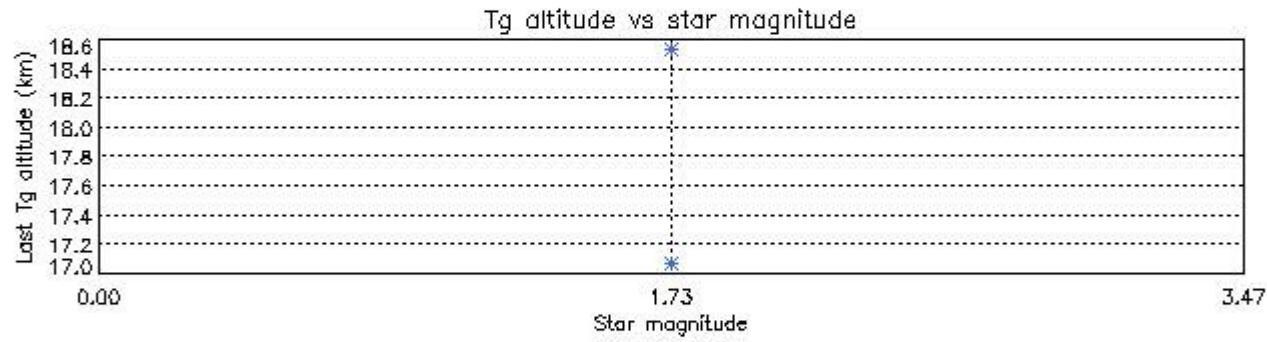
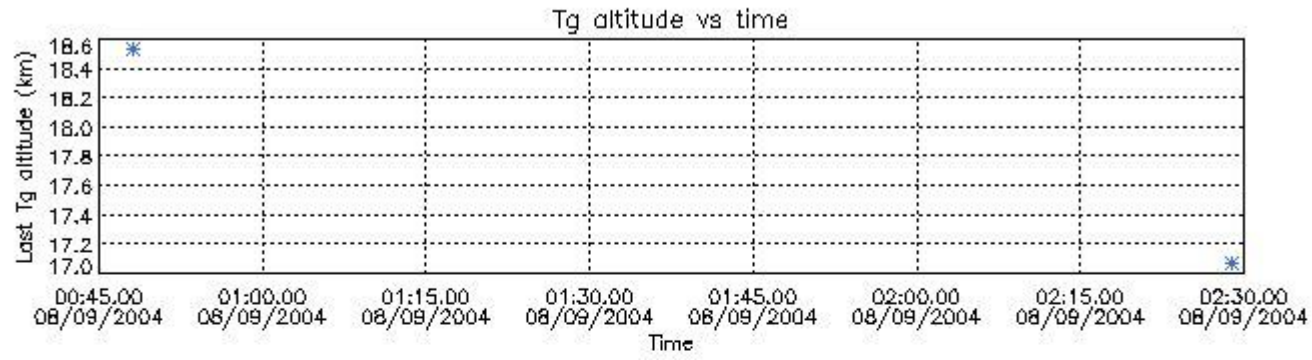
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

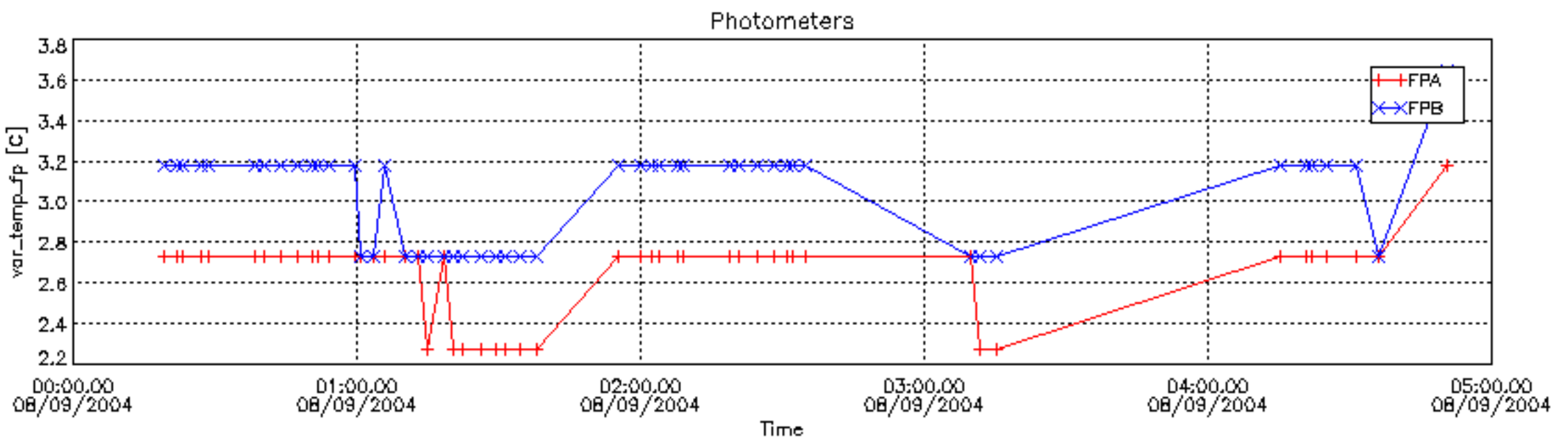
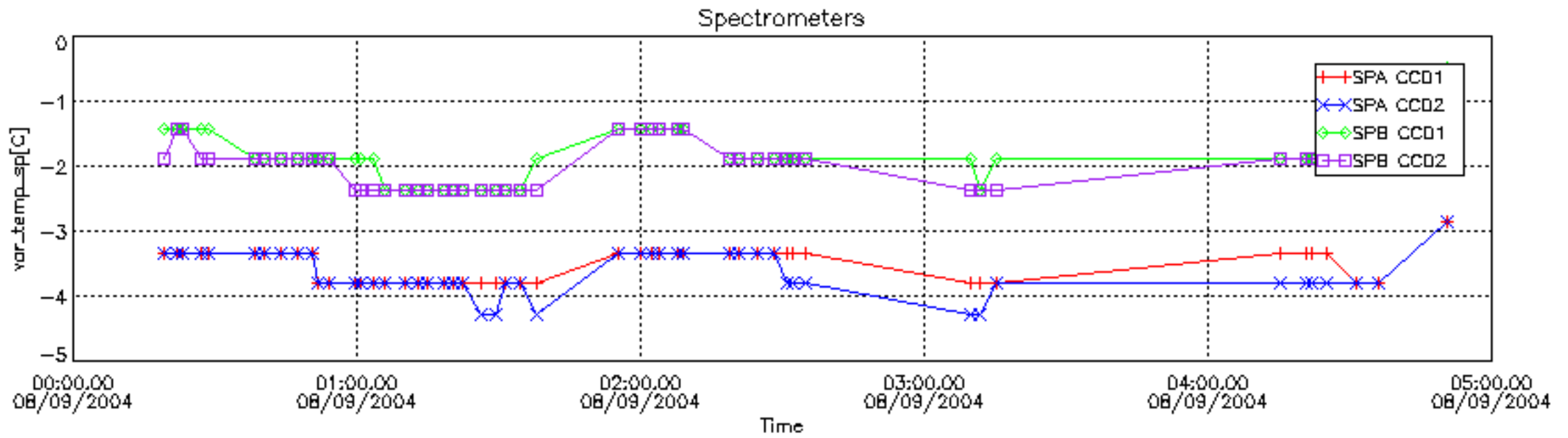
Tangent altitude at which the star is lost

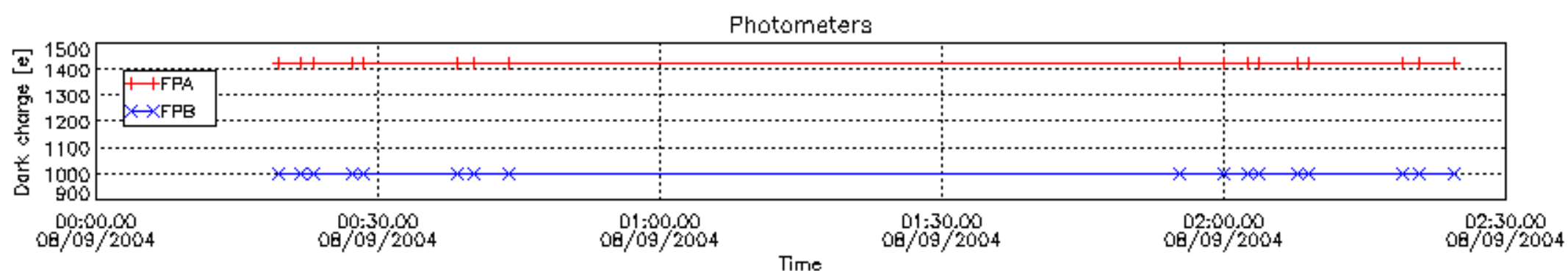
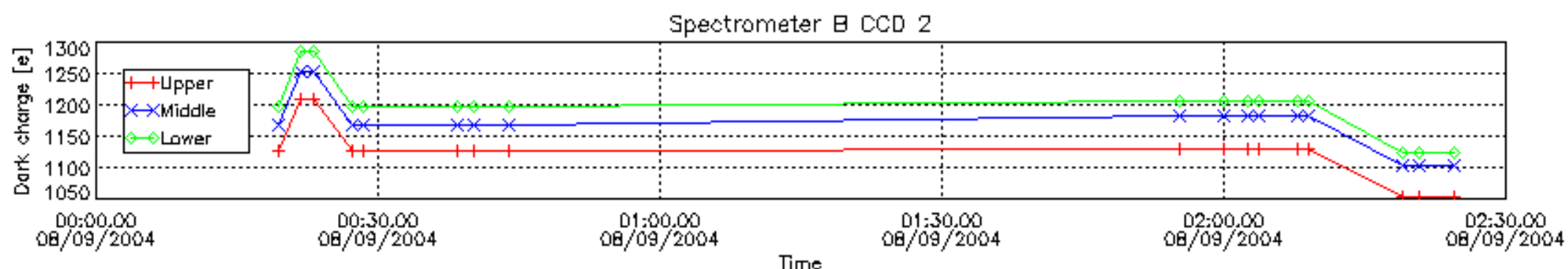
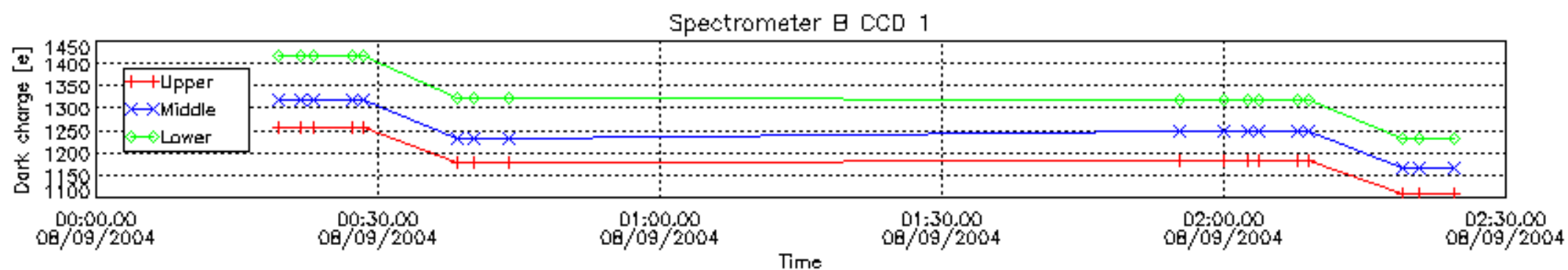
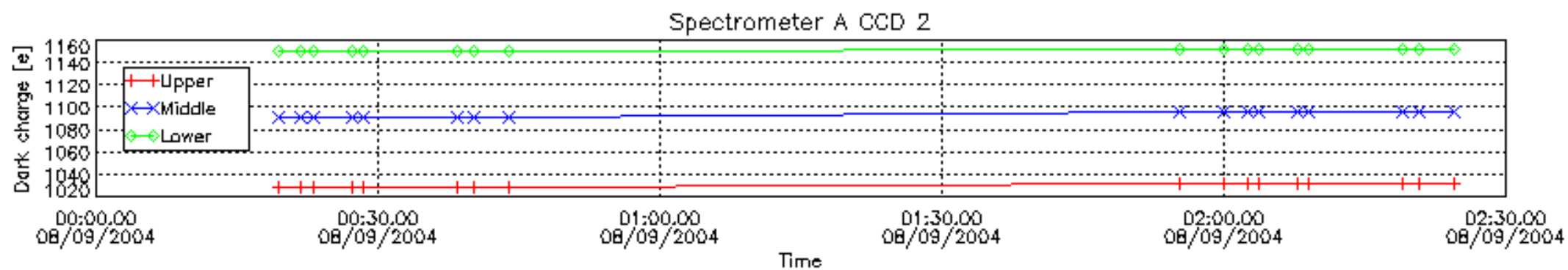
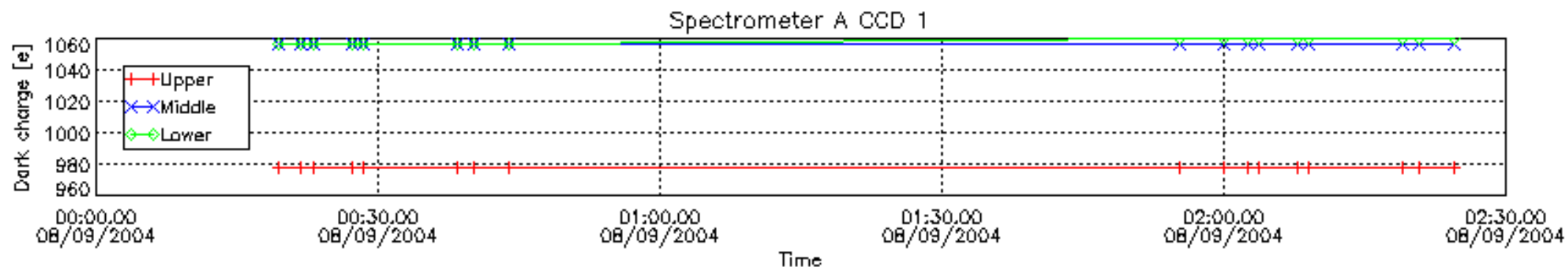


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

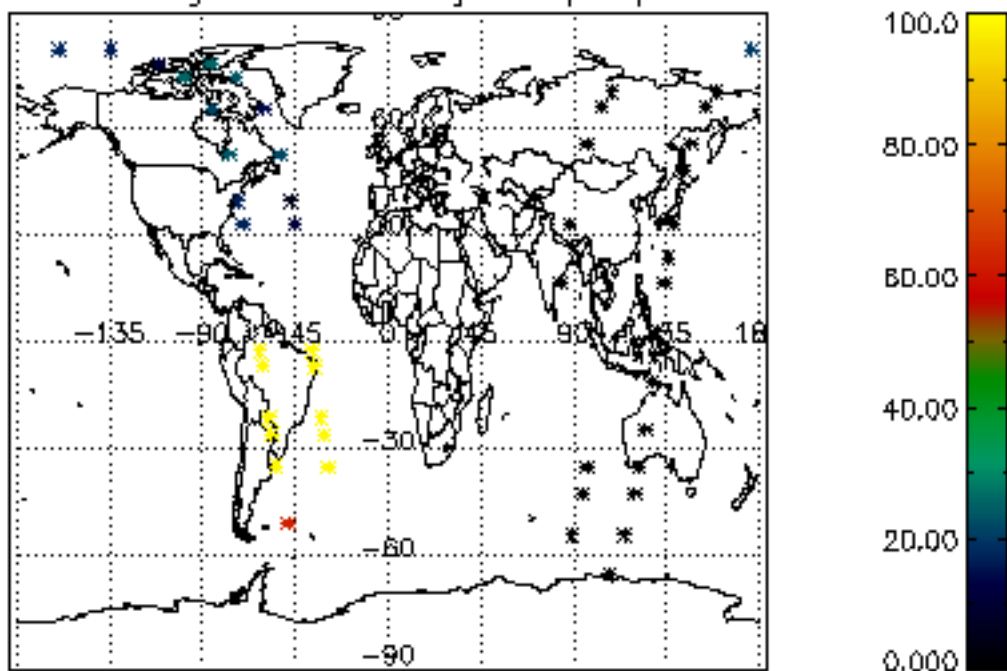
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.3	1446.5	1461.7	1447.7
St. deviation:	3.4890	5.0550	7.2779	8.2354
Maximum:	1498.0	1574.0	1509.0	1499.0
Minimum:	1447.0	1431.0	1404.0	1407.0
Number of data:	20400.	20400.	35650.	35650.

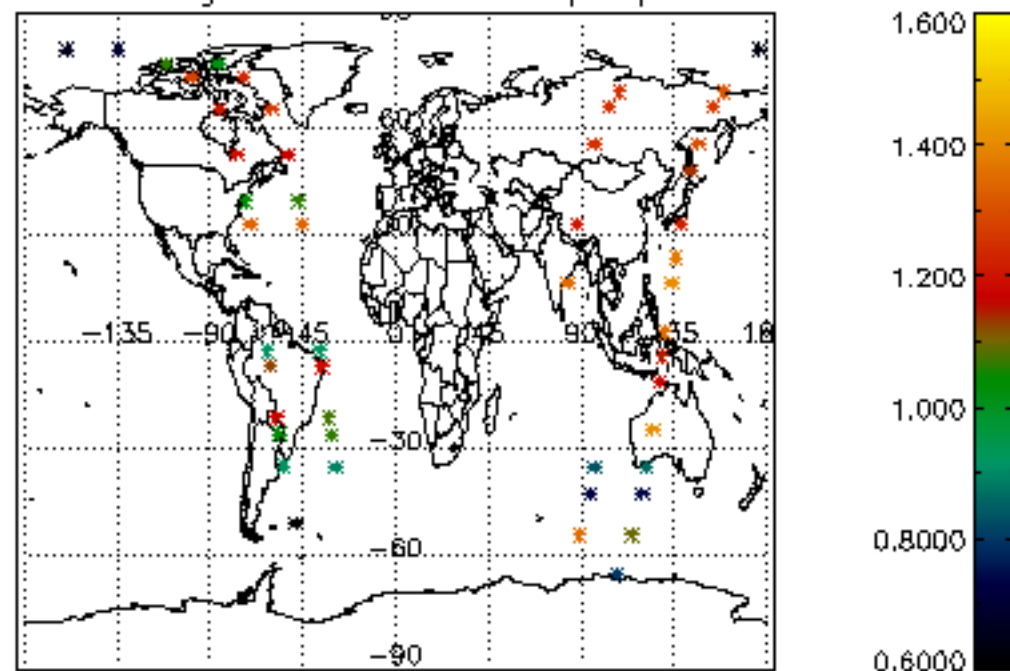




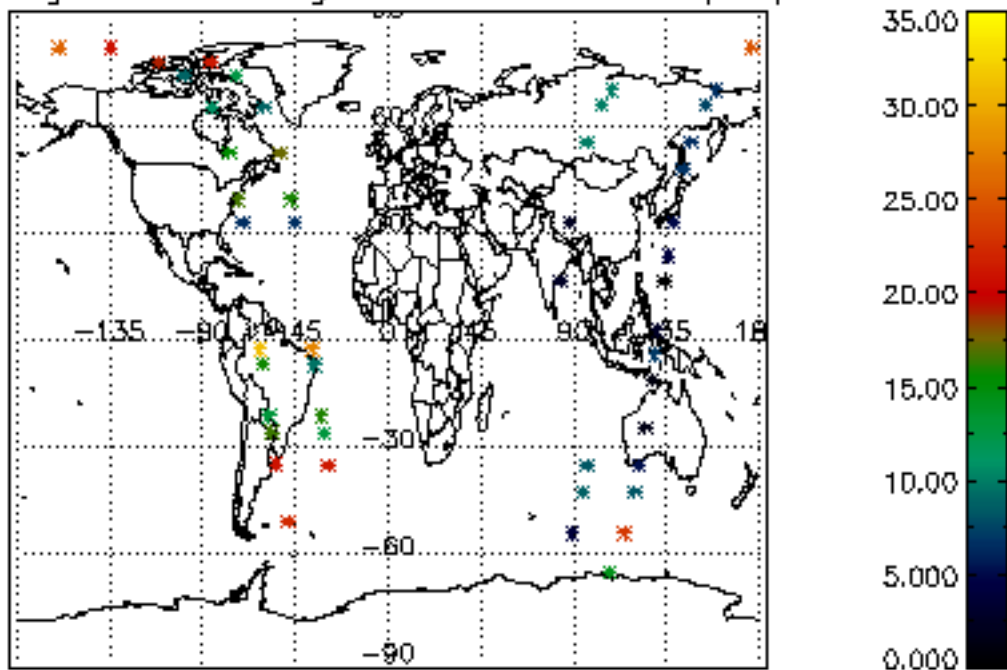
Percentage of cosmic ray hits per profile



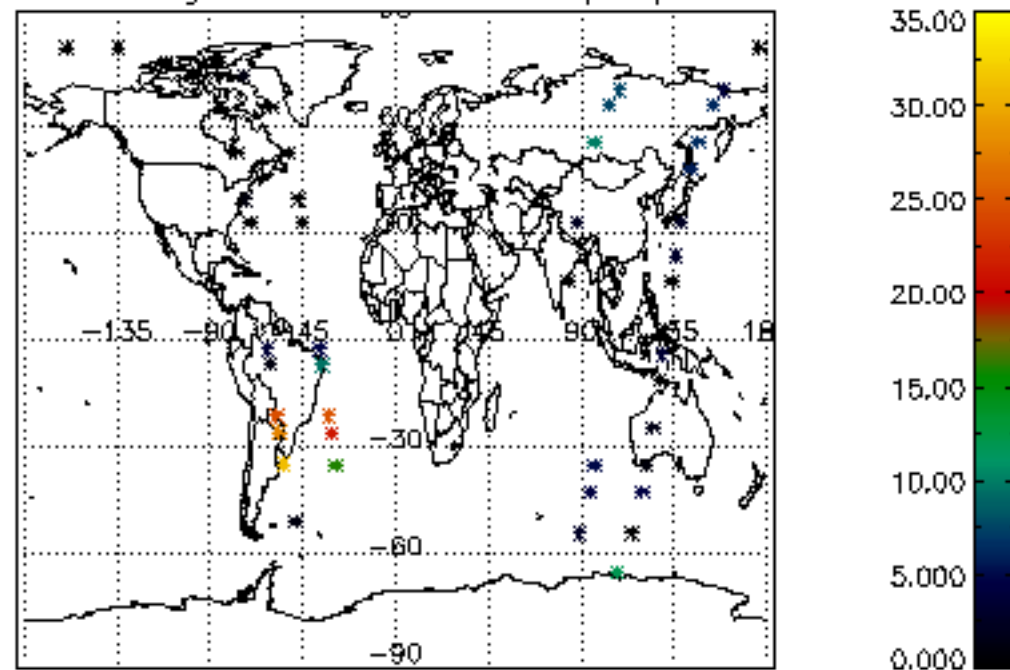
Percentage of datation errors per profile



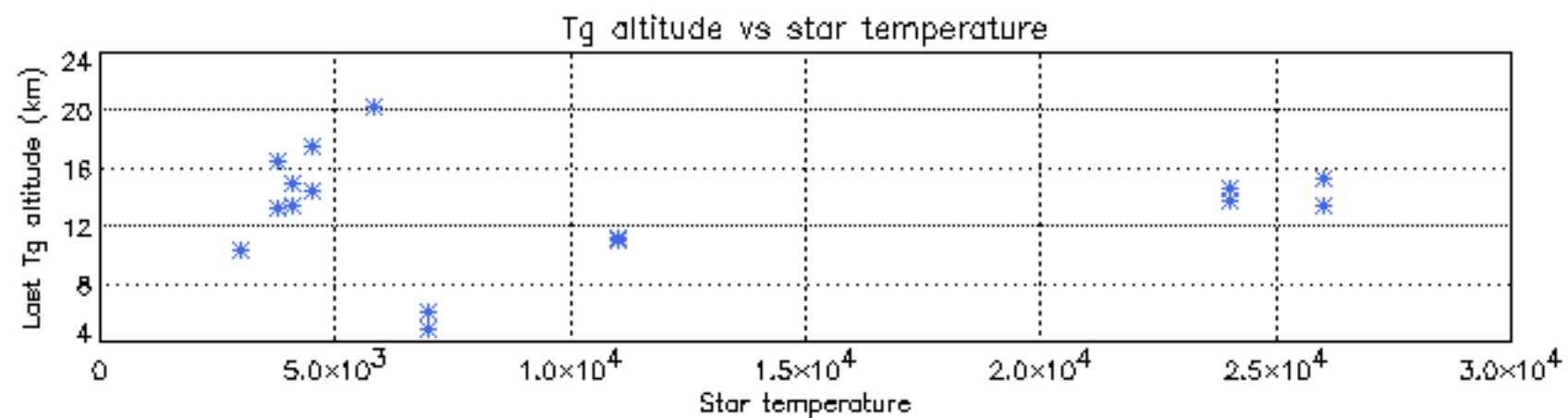
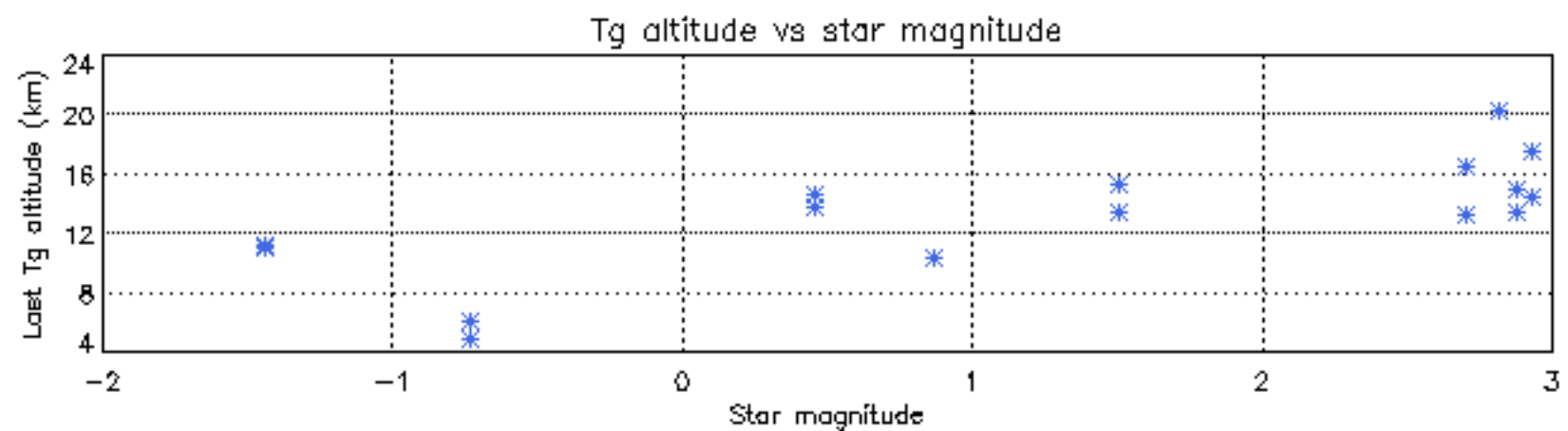
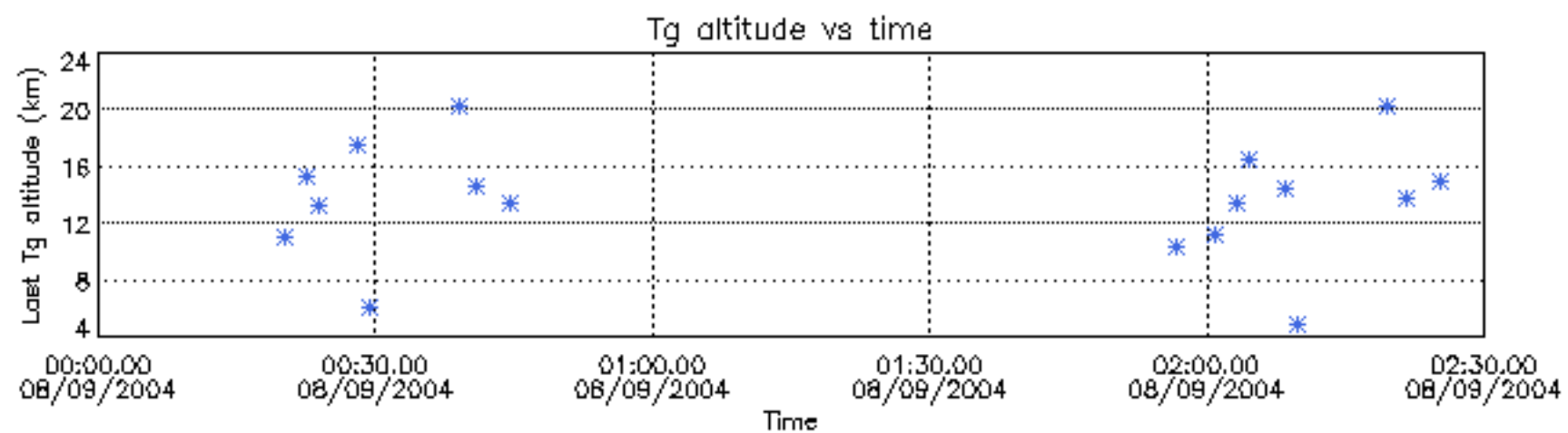
Percentage of star falling outside central band per profile



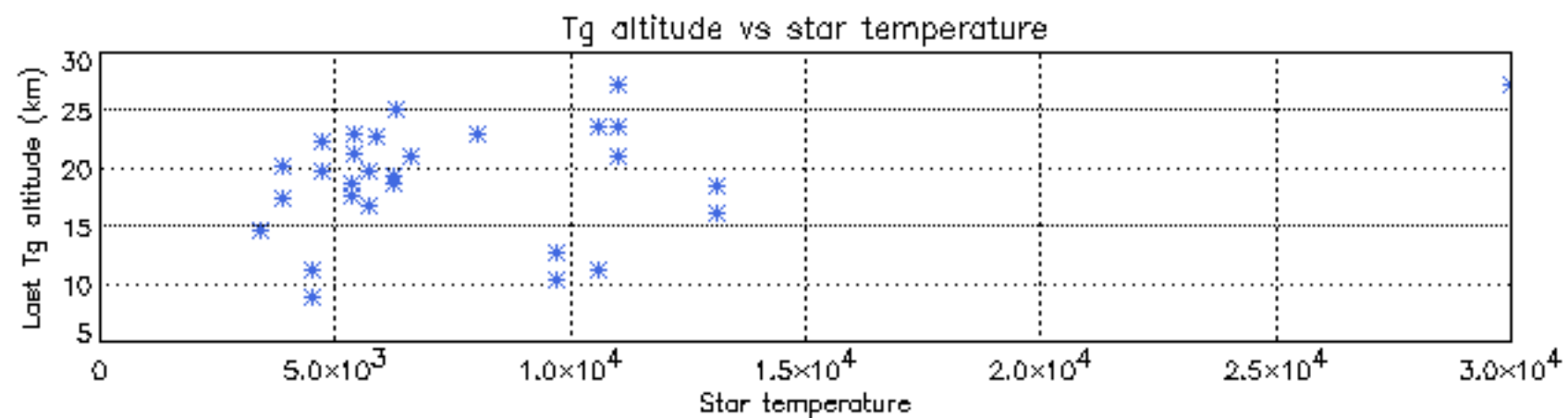
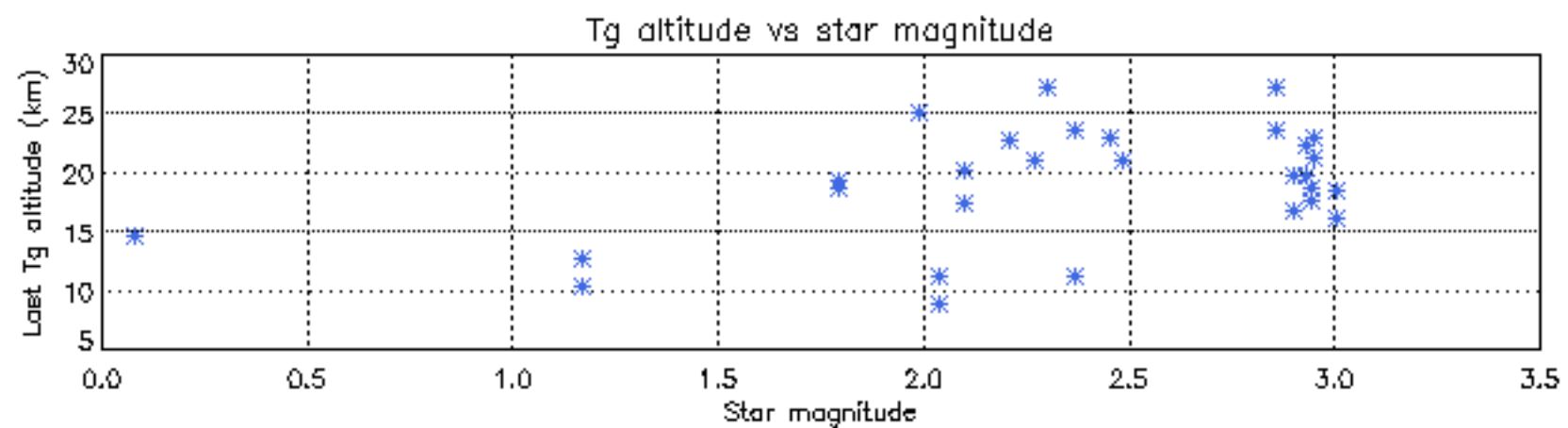
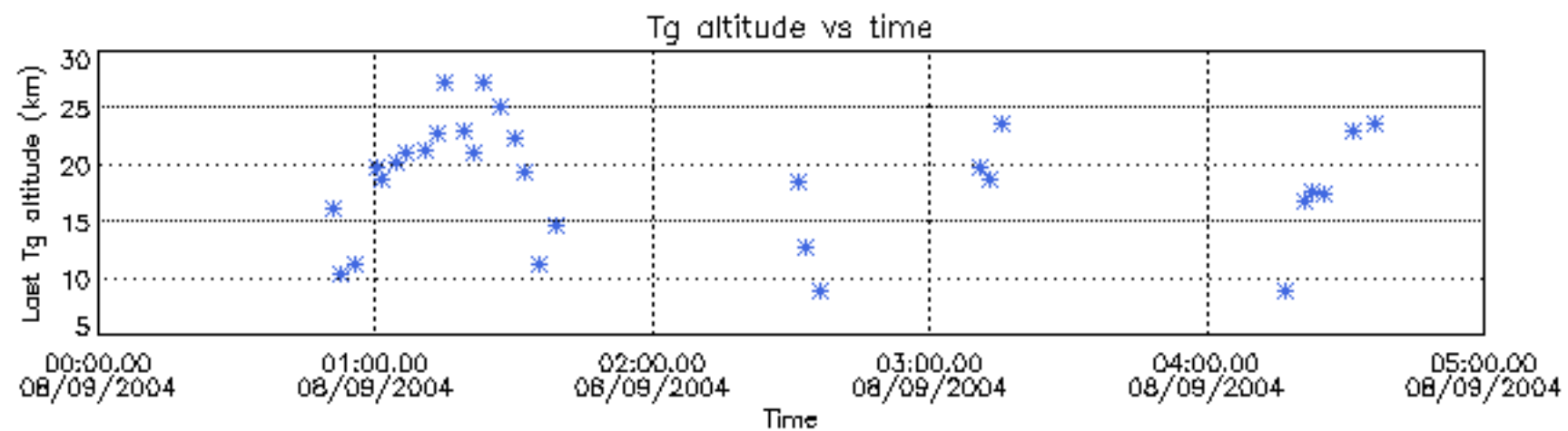
Percentage of saturation errors per profile



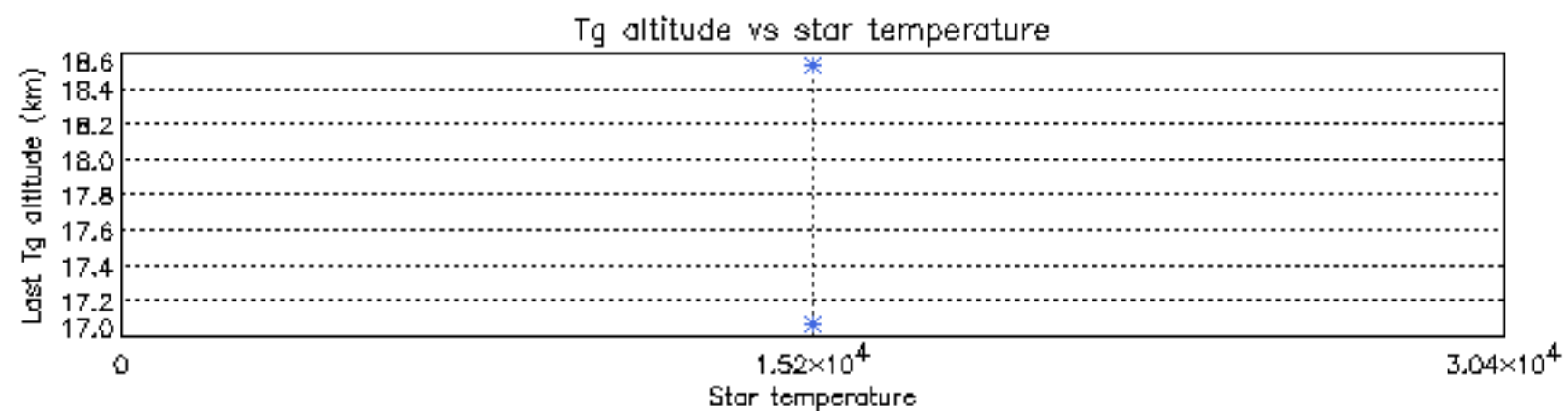
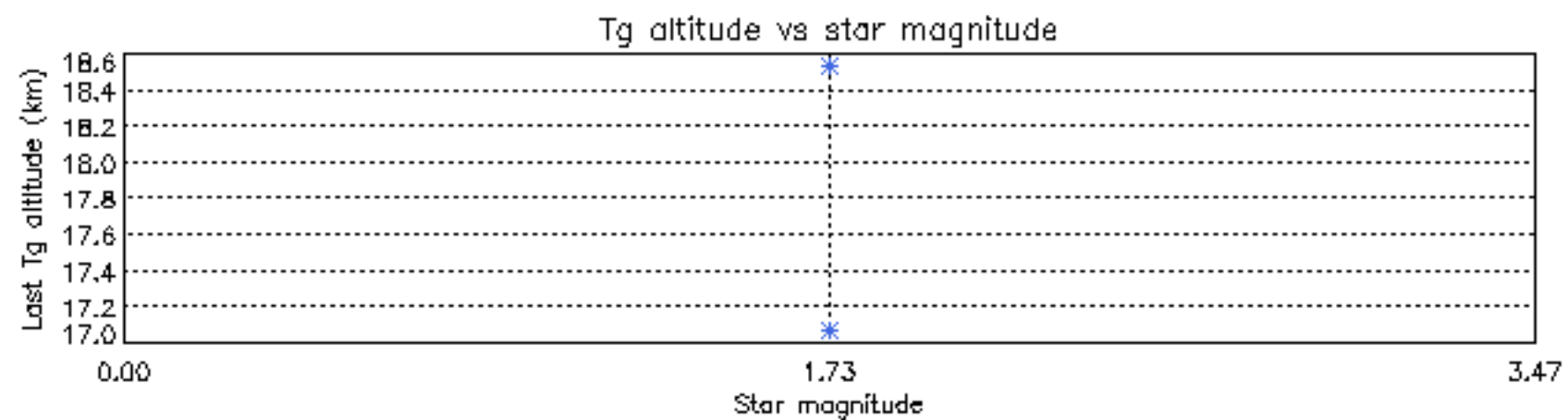
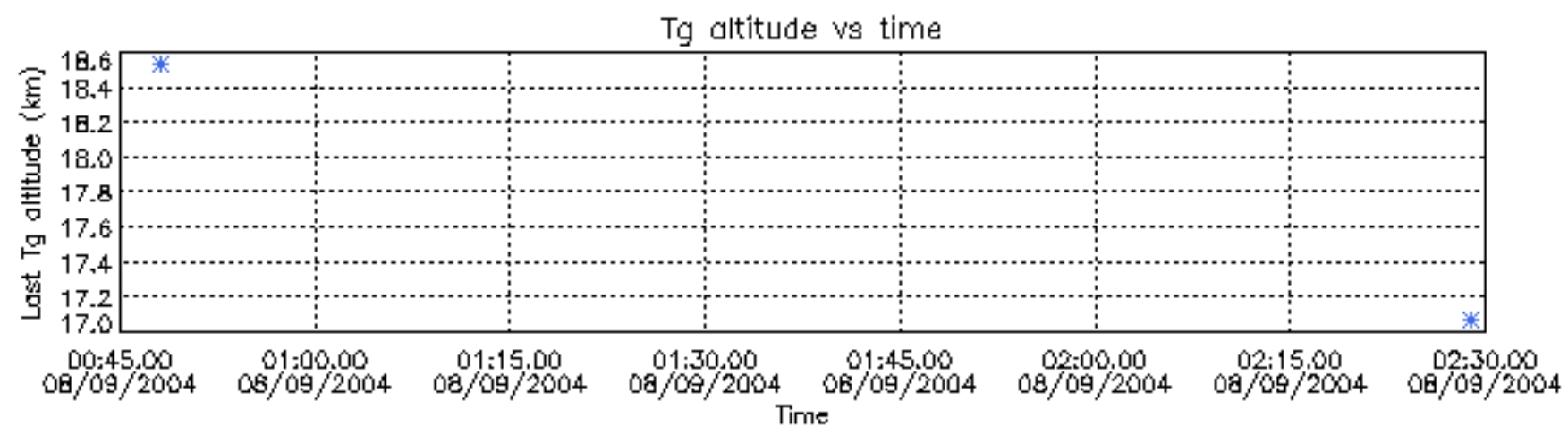
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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 6; 527.2; 01-SEP-2004 00:58:03; Dark ; 43.0; 143; Alp Hyi ; 2.86; 7200;occ; 86; 0;13097
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13; 1890.9; 01-SEP-2004 01:20:47; Bright; 44.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 89; 0;13097
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 23; 3190.5; 09-SEP-2004 00:50:42; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;13211
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