

GOMOS Daily Report 27-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	30SEP2004 05:03:43
Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-3D (27SEP2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (28SEP2004 00:00:00)

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

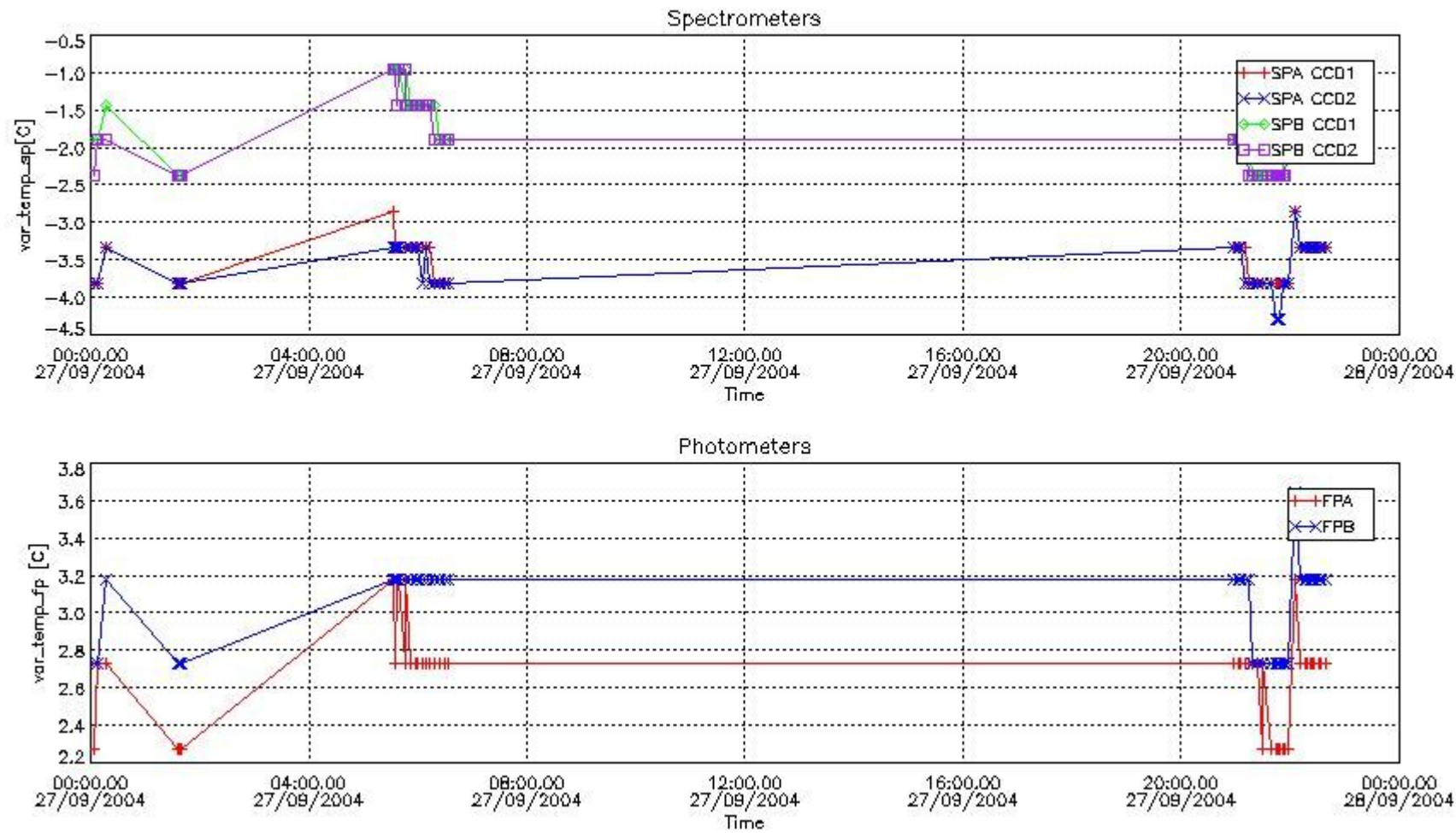
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040927_000351_000000842030_00388_13468_0025.N1	27-SEP-2004 00:03:51	Bright	84.000	107	37The Aur	2.6490	11000.	168	13468	No
GOM_TRA_1PNPDE20040927_000743_000002552030_00388_13468_0026.N1	27-SEP-2004 00:07:43	Twilight	255.00	114	31ot Aur	2.6930	4600.0	510	13468	No
GOM_TRA_1PNPDE20040927_001635_000000162030_00388_13468_0027.N1	27-SEP-2004 00:16:35	Twilight	16.000	8	10Alp CMi	0.40000	6500.0	32	13468	No
GOM_TRA_1PNPDE20040927_013655_000000382030_00389_13469_0022.N1	27-SEP-2004 01:36:55	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	13469	No
GOM_TRA_1PNPDE20040927_013824_000000382030_00389_13469_0023.N1	27-SEP-2004 01:38:24	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	13469	No
GOM_TRA_1PNPDE20040927_014016_000000682030_00389_13469_0024.N1	27-SEP-2004 01:40:16	Bright	68.000	42	34Bet Aur	1.9000	10200.	136	13469	No
GOM_TRA_1PNPDE20040927_053349_000000392030_00392_13472_0010.N1	27-SEP-2004 05:33:49	Dark	39.000	159	Ups Car	2.9200	7200.0	78	13472	No
GOM_TRA_1PNPDE20040927_053559_000000592030_00392_13472_0011.N1	27-SEP-2004 05:35:59	Dark	59.000	2	Alp Car	-0.73600	7000.0	118	13472	No
GOM_TRA_1PNPDE20040927_053736_000000602030_00392_13472_0012.N1	27-SEP-2004 05:37:36	Dark	59.500	108	Alp Col	2.6520	15200.	119	13472	No
GOM_TRA_1PNPDE20040927_053941_000001272030_00392_13472_0013.N1	27-SEP-2004 05:39:41	Dark	126.50	101	11Alp Lep	2.5820	7000.0	253	13472	No
GOM_TRA_1PNPDE20040927_054537_000000412030_00392_13472_0014.N1	27-SEP-2004 05:45:37	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	13472	No
GOM_TRA_1PNPDE20040927_054705_000000552030_00392_13472_0015.N1	27-SEP-2004 05:47:05	Dark	55.000	9	Alp Eri	0.45300	24000.	110	13472	No
GOM_TRA_1PNPDE20040927_055241_000000512030_00392_13472_0016.N1	27-SEP-2004 05:52:41	Twilight	51.000	63	Bet Gru	2.1500	2800.0	102	13472	No
GOM_TRA_1PNPDE20040927_055717_000000462030_00392_13472_0017.N1	27-SEP-2004 05:57:17	Bright	45.500	18	24Alp PsA	1.1660	9700.0	91	13472	No
GOM_TRA_1PNPDE20040927_055935_000000552030_00392_13472_0018.N1	27-SEP-2004 05:59:35	Bright	54.500	52	16Bet Cet	2.0370	4500.0	109	13472	No
GOM_TRA_1PNPDE20040927_060558_000000392030_00392_13472_0019.N1	27-SEP-2004 06:05:58	Bright	38.500	162	34Alp Aqr	2.9440	5350.0	77	13472	No
GOM_TRA_1PNPDE20040927_060951_000000382030_00392_13472_0020.N1	27-SEP-2004 06:09:51	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	13472	No
GOM_TRA_1PNPDE20040927_061332_000000372030_00392_13472_0021.N1	27-SEP-2004 06:13:32	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	13472	No
GOM_TRA_1PNPDE20040927_061842_000000522030_00392_13472_0022.N1	27-SEP-2004 06:18:42	Bright	52.000	53	43Bet And	2.0480	3300.0	104	13472	No
GOM_TRA_1PNPDE20040927_062310_000000402030_00392_13472_0023.N1	27-SEP-2004 06:23:10	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	13472	No
GOM_TRA_1PNPDE20040927_062438_000000422030_00392_13472_0024.N1	27-SEP-2004 06:24:38	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	13472	No
GOM_TRA_1PNPDE20040927_062905_000000532030_00392_13472_0025.N1	27-SEP-2004 06:29:05	Bright	52.500	160	23Gam Per	2.9300	4700.0	105	13472	No
GOM_TRA_1PNPDE20040927_063243_000000402030_00392_13472_0026.N1	27-SEP-2004 06:32:43	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	13472	No
GOM_TRA_1PNPDE20040927_205805_000000492030_00401_13481_0000.N1	27-SEP-2004 20:58:05	Twilight	49.000	63	Bet Gru	2.1500	2800.0	98	13481	No
GOM_TRA_1PNPDE20040927_210241_000000442030_00401_13481_0001.N1	27-SEP-2004 21:02:41	Bright	44.000	18	24Alp PsA	1.1660	9700.0	88	13481	No
GOM_TRA_1PNPDE20040927_210500_000000542030_00401_13481_0002.N1	27-SEP-2004 21:05:00	Bright	53.500	52	16Bet Cet	2.0370	4500.0	107	13481	No
GOM_TRA_1PNPDE20040927_211123_000000402030_00401_13481_0003.N1	27-SEP-2004 21:11:23	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13481	No
GOM_TRA_1PNPDE20040927_211515_000000382030_00401_13481_0004.N1	27-SEP-2004 21:15:15	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	13481	No
GOM_TRA_1PNPDE20040927_211856_000000382030_00401_13481_0005.N1	27-SEP-2004 21:18:56	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	13481	No
GOM_TRA_1PNPDE20040927_212359_000000482030_00401_13481_0006.N1	27-SEP-2004 21:23:59	Bright	48.000	53	43Bet And	2.0480	3300.0	96	13481	No
GOM_TRA_1PNPDE20040927_212831_000000412030_00401_13481_0007.N1	27-SEP-2004 21:28:31	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	13481	No
GOM_TRA_1PNPDE20040927_212957_000000412030_00401_13481_0008.N1	27-SEP-2004 21:29:57	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	13481	No
GOM_TRA_1PNPDE20040927_213808_000000382030_00401_13481_0009.N1	27-SEP-2004 21:38:08	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	13481	No
GOM_TRA_1PNPDE20040927_214408_000000402030_00401_13481_0010.N1	27-SEP-2004 21:44:08	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13481	No
GOM_TRA_1PNPDE20040927_214537_000000382030_00401_13481_0011.N1	27-SEP-2004 21:45:37	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	13481	No
GOM_TRA_1PNPDE20040927_214720_000000952030_00401_13481_0012.N1	27-SEP-2004 21:47:20	Bright	95.000	42	34Bet Aur	1.9000	10200.	190	13481	No
GOM_TRA_1PNPDE20040927_215135_000000862030_00401_13481_0013.N1	27-SEP-2004 21:51:35	Bright	86.000	107	37The Aur	2.6490	11000.	172	13481	No
GOM_TRA_1PNPDE20040927_215415_000000752030_00401_13481_0014.N1	27-SEP-2004 21:54:15	Bright	75.000	24	66Alp Gem	1.5800	10200.	150	13481	No
GOM_TRA_1PNPDE20040927_215834_000000892030_00401_13481_0015.N1	27-SEP-2004 21:58:34	Twilight	88.500	170	27Eps Gem	3.0000	9700.0	177	13481	No
GOM_TRA_1PNPDE20040927_220433_000000702030_00401_13481_0000.N1	27-SEP-2004 22:04:33	Twilight	69.500	8	10Alp CMi	0.40000	6500.0	139	13481	No
GOM_TRA_1PNPDE20040927_221144_000000452030_00401_13481_0001.N1	27-SEP-2004 22:11:44	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	13481	No
GOM_TRA_1PNPDE20040927_221534_000000872030_00401_13481_0002.N1	27-SEP-2004 22:15:34	Dark	86.500	1	9Alp CMa	-1.4400	11000.	173	13481	No
GOM_TRA_1PNPDE20040927_221832_000000432030_00401_13481_0003.N1	27-SEP-2004 22:18:32	Dark	43.000	71	lot Car	2.2460	7700.0	86	13481	No
GOM_TRA_1PNPDE20040927_222205_000000592030_00402_13482_0004.N1	27-SEP-2004 22:22:05	Dark	59.000	2	Alp Car	-0.73600	7000.0	118	13482	No
GOM_TRA_1PNPDE20040927_222350_000000612030_00402_13482_0005.N1	27-SEP-2004 22:23:50	Dark	60.500	108	Alp Col	2.6520	15200.	121	13482	No
GOM_TRA_1PNPDE20040927_222612_000001342030_00402_13482_0006.N1	27-SEP-2004 22:26:12	Dark	134.00	101	11Alp Lep	2.5820	7000.0	268	13482	No
GOM_TRA_1PNPDE20040927_223140_000000412030_00402_13482_0007.N1	27-SEP-2004 22:31:40	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	13482	No
GOM_TRA_1PNPDE20040927_223308_000000552030_00402_13482_0008.N1	27-SEP-2004 22:33:08	Dark	55.000	9	Alp Eri	0.45300	24000.	110	13482	No
GOM_TRA_1PNPDE20040927_223841_000000442030_00402_13482_0009.N1	27-SEP-2004 22:38:41	Twilight	43.500	63	Bet Gru	2.1500	2800.0	87	13482	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).

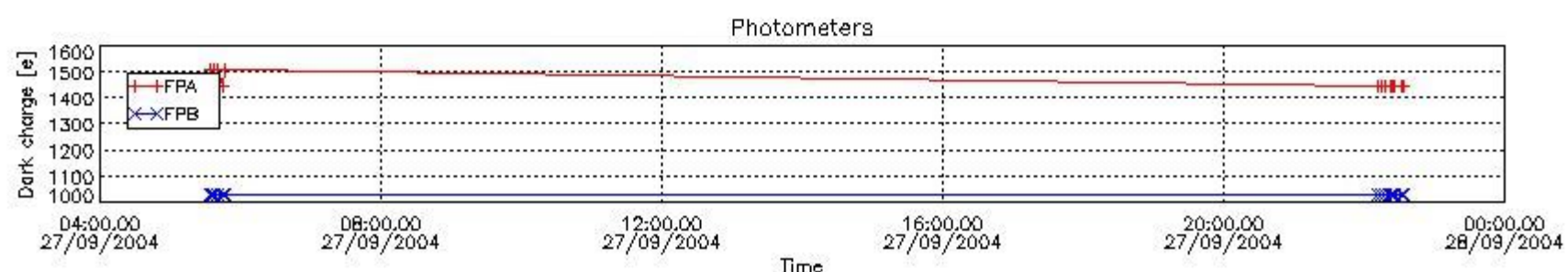
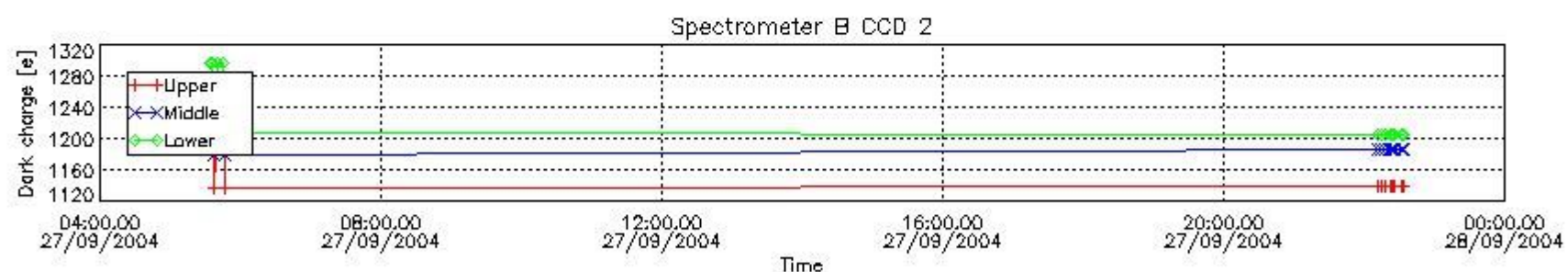
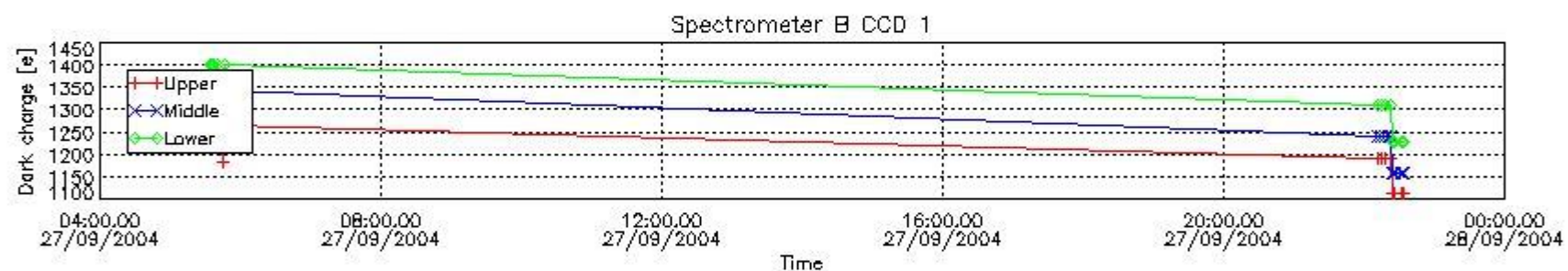
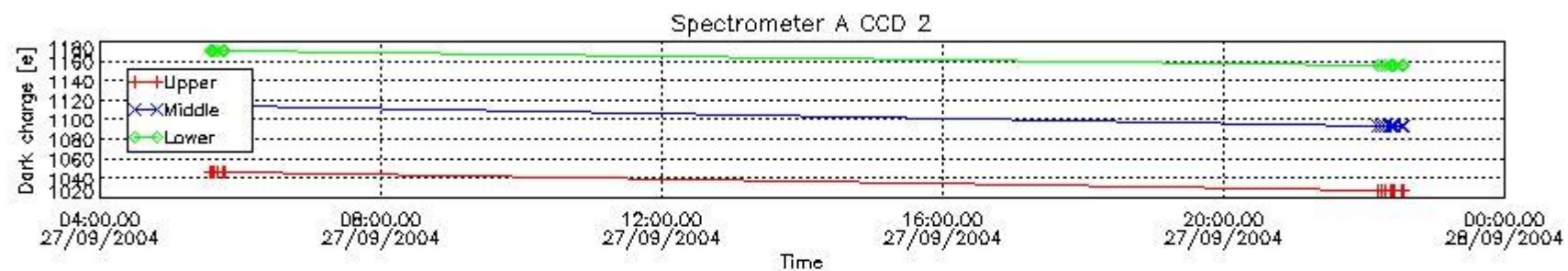
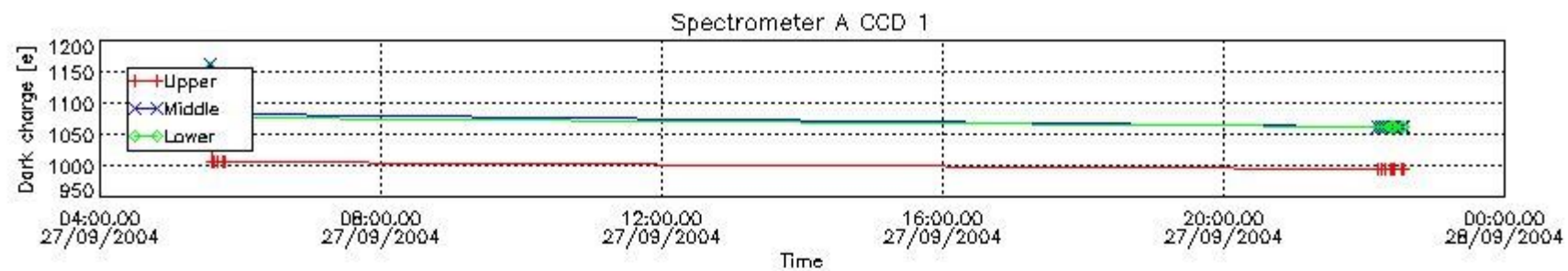
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040927_205805_000000492030_00401_13481_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_210241_000000442030_00401_13481_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_210500_000000542030_00401_13481_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_211123_000000402030_00401_13481_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_211515_000000382030_00401_13481_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_211856_000000382030_00401_13481_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_212359_000000482030_00401_13481_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_212831_000000412030_00401_13481_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_212957_000000412030_00401_13481_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_213808_000000382030_00401_13481_0009.N1	DC map used (0)

GOM_TRA_1PNPDE20040927_214408_000000402030_00401_13481_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_214537_000000382030_00401_13481_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_214720_000000952030_00401_13481_0012.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_215135_000000862030_00401_13481_0013.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_215415_000000752030_00401_13481_0014.N1	DC map used (0)
GOM_TRA_1PNPDE20040927_215834_000000892030_00401_13481_0015.N1	DC map used (0)

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



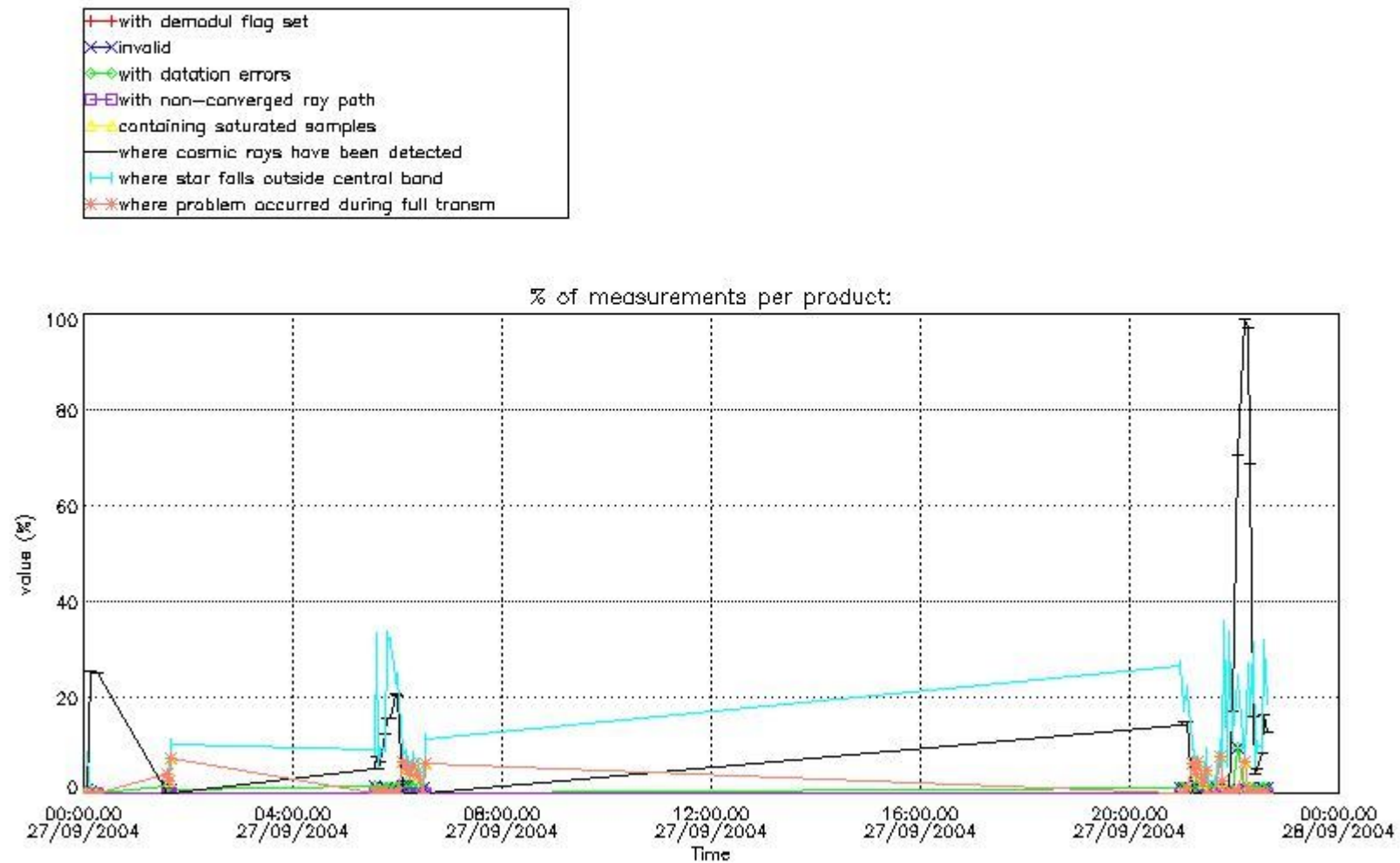
5. Demodulation flag and quality information monitoring

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.

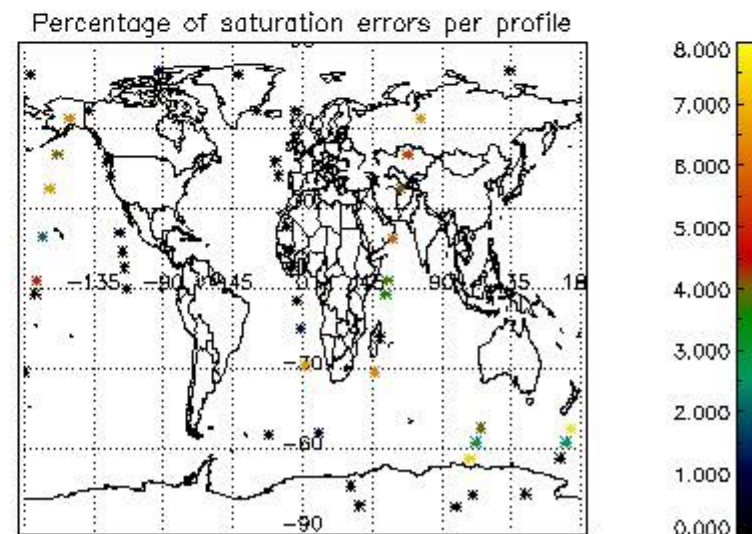
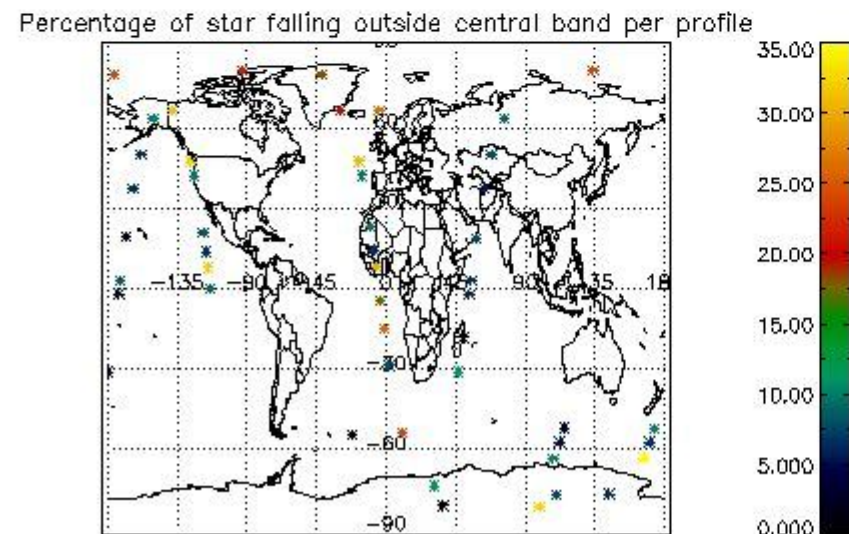
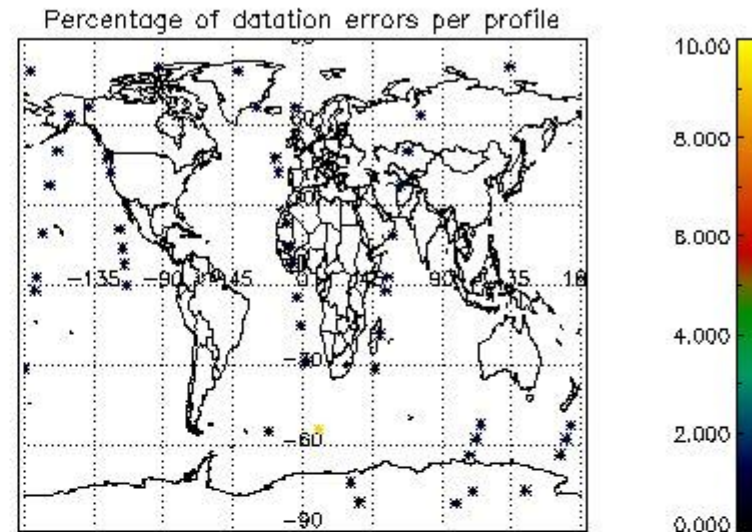
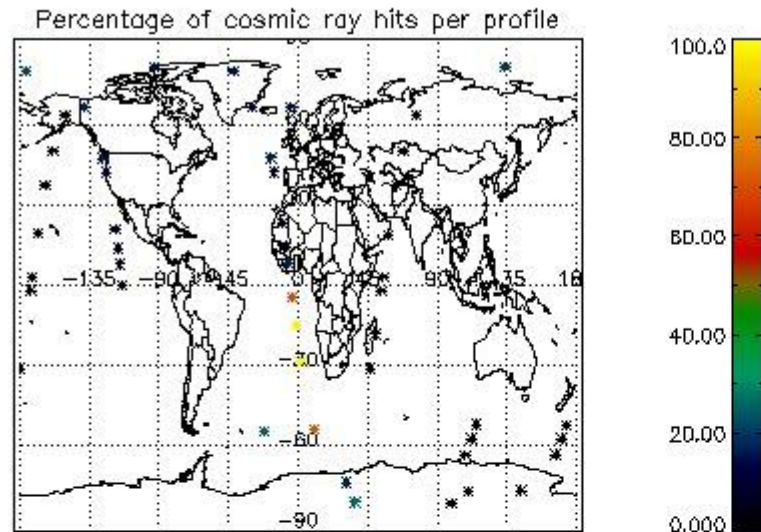
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.2449 %
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)



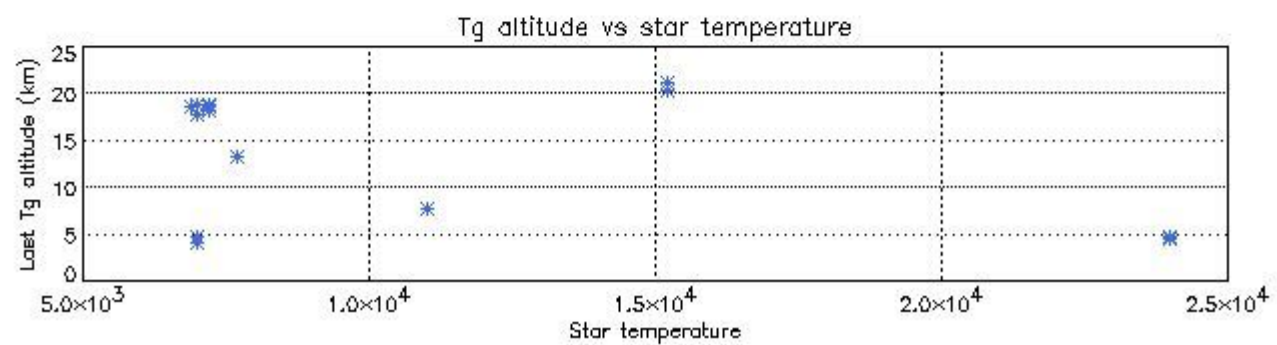
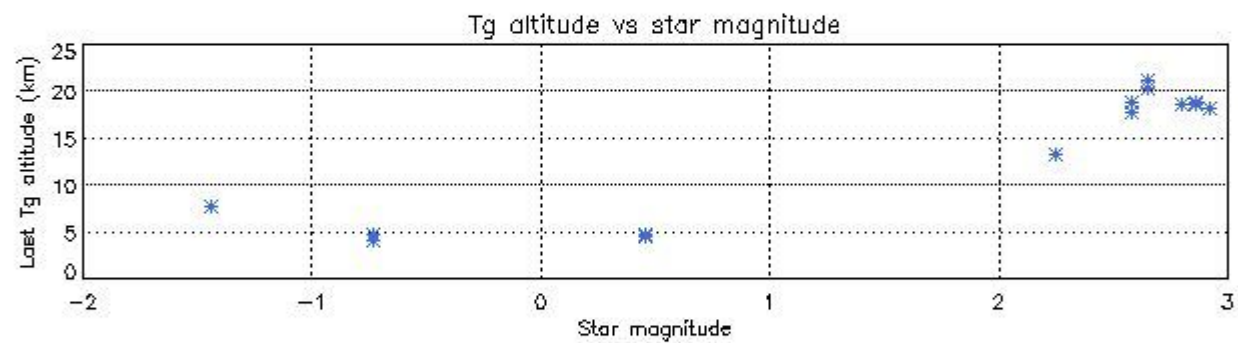
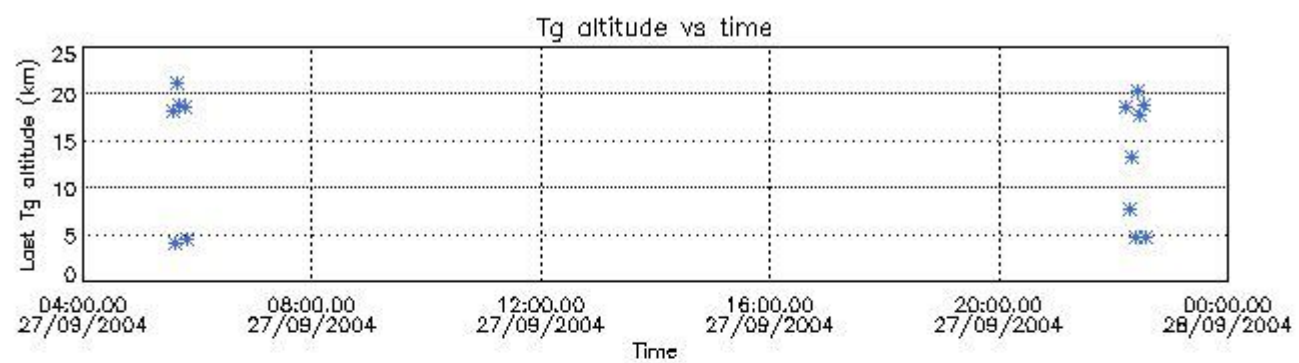
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.643	18.052	35.539
St. deviation:	6.8445	5.4884	43.581
Maximum:	21.145	26.292	102.62
Minimum:	4.1056	4.1966	5.2075
Number of data:	14.000	28.000	7.0000

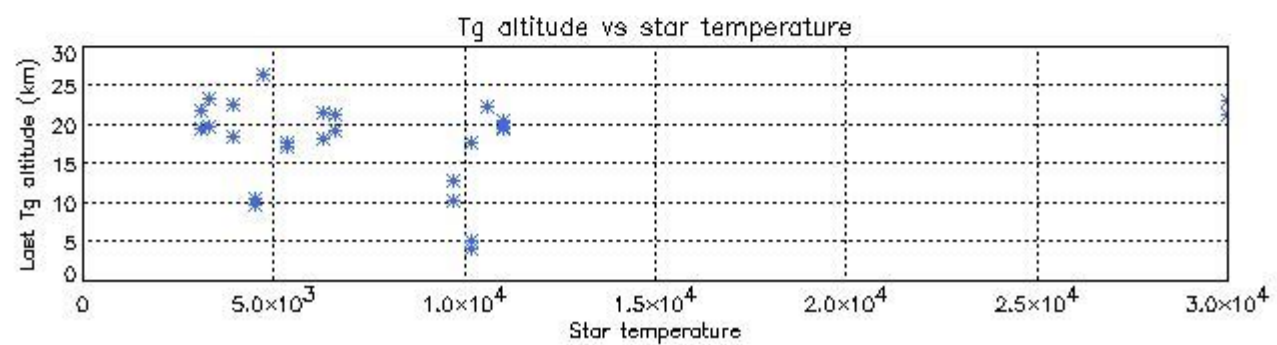
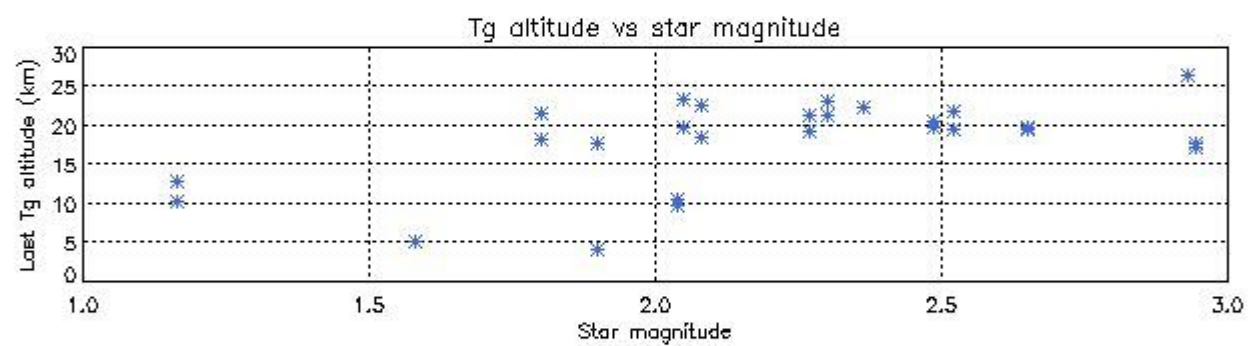
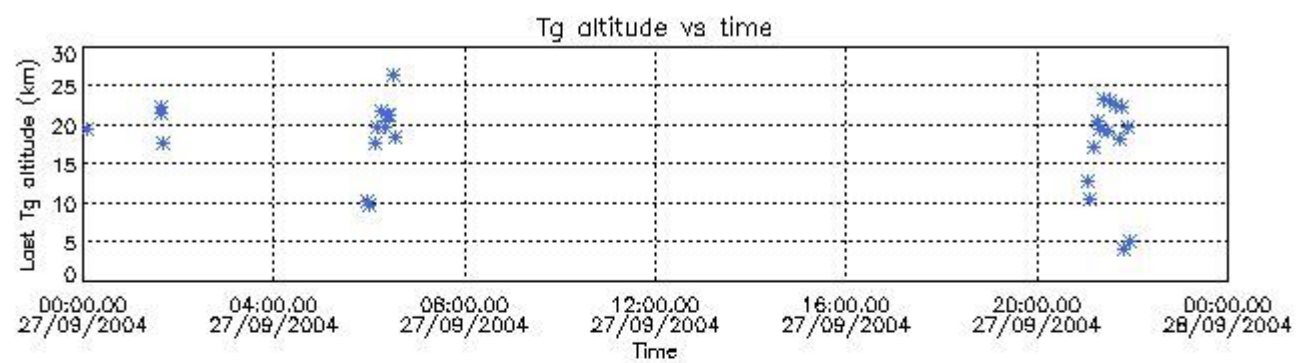
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



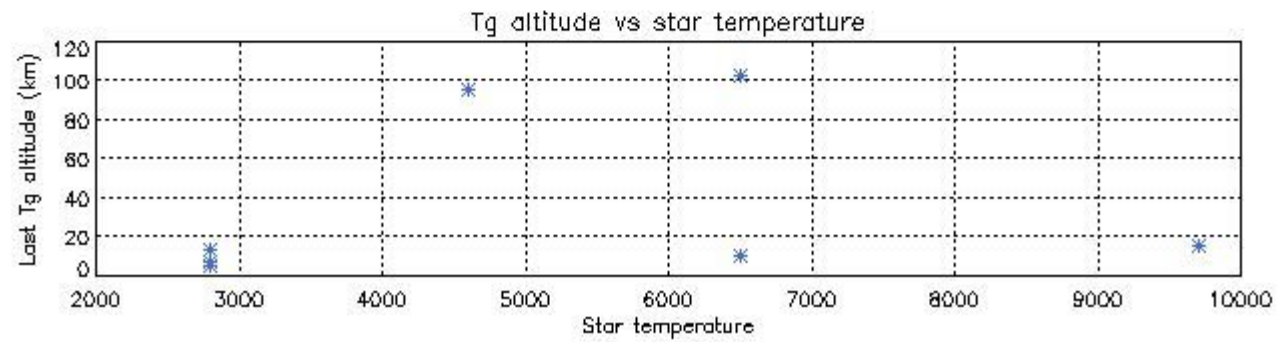
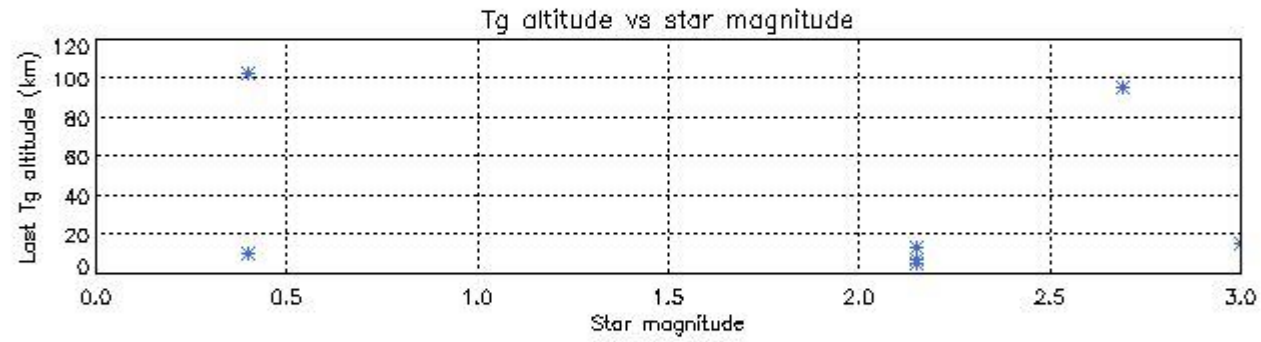
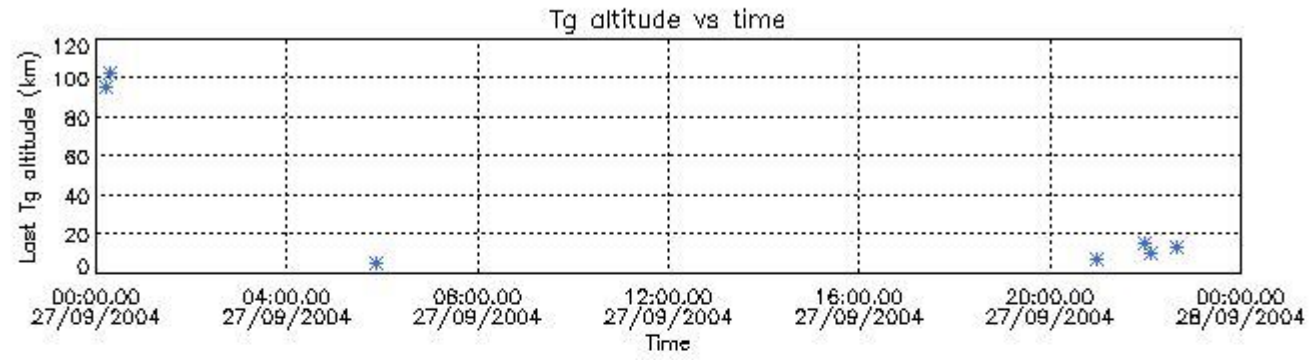
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

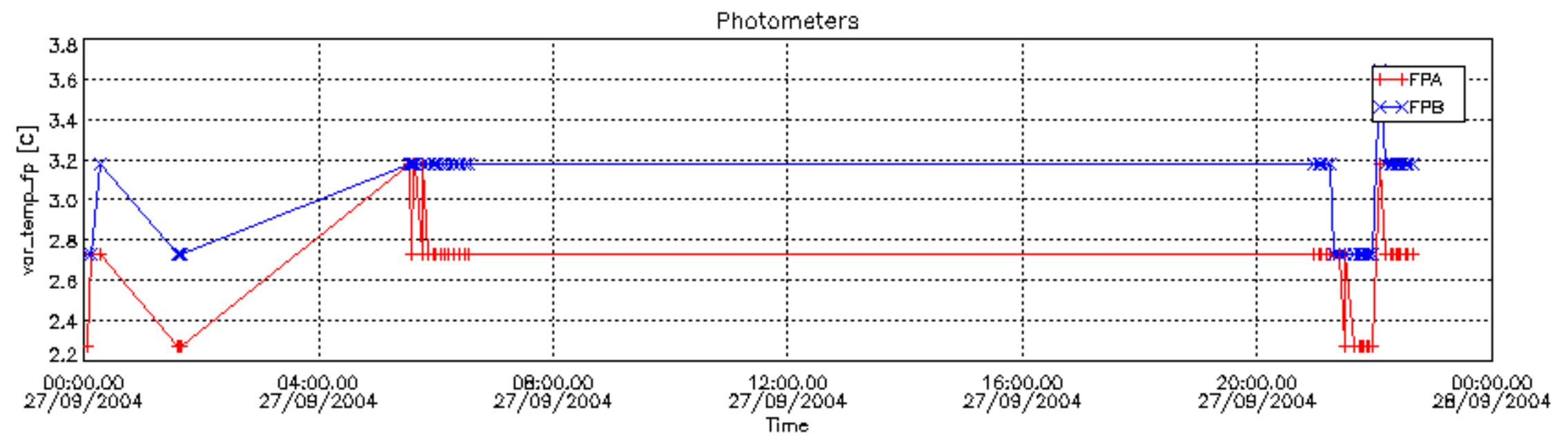
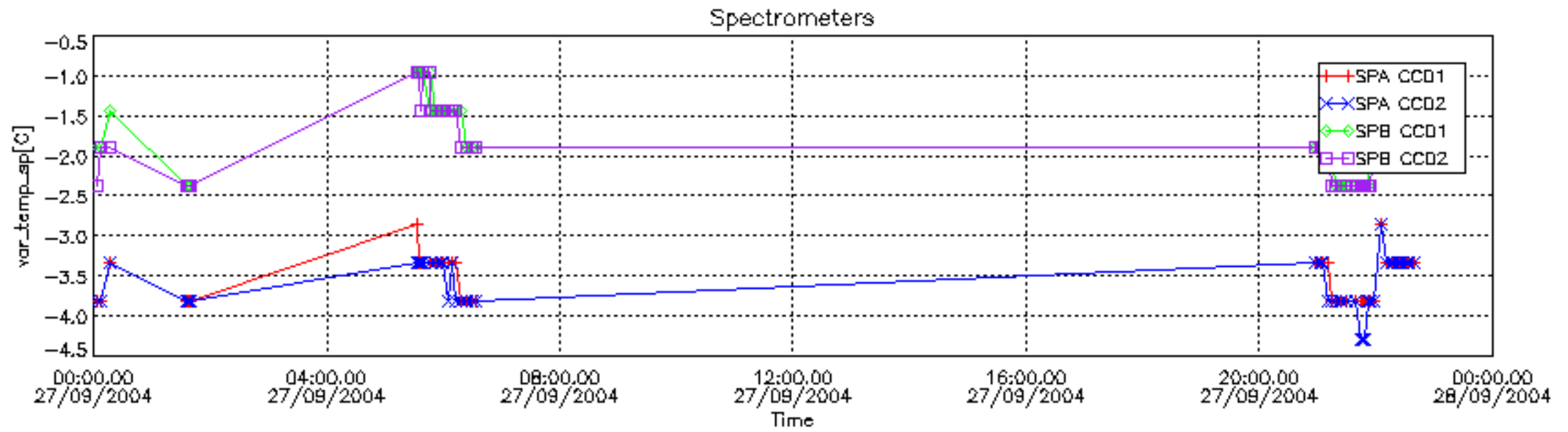
Tangent altitude at which the star is lost

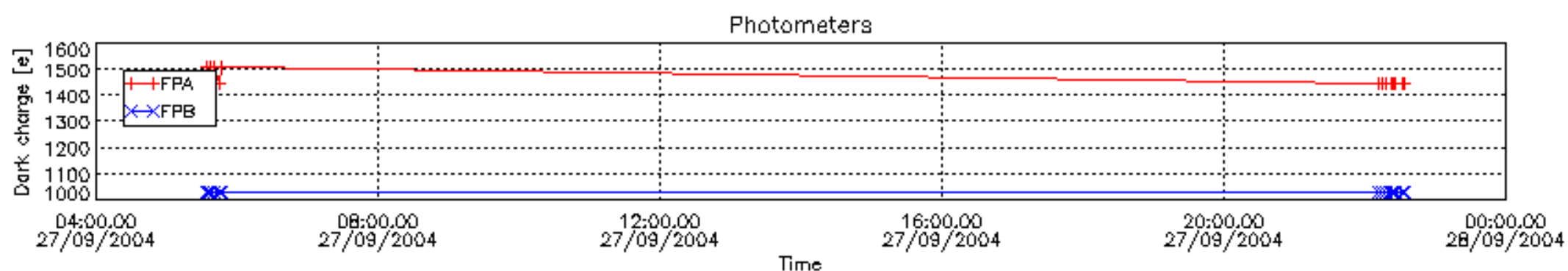
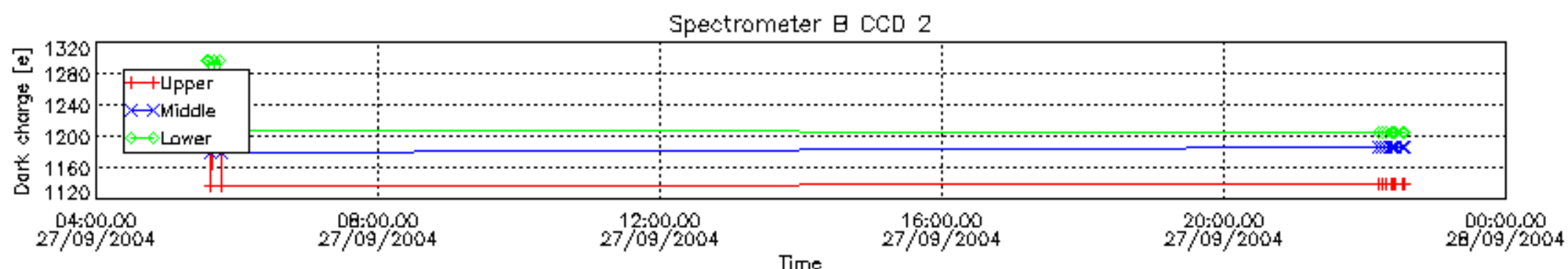
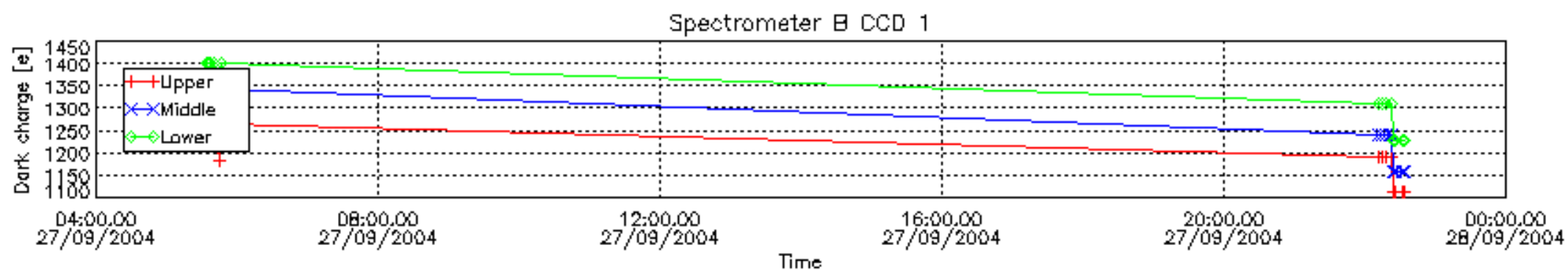
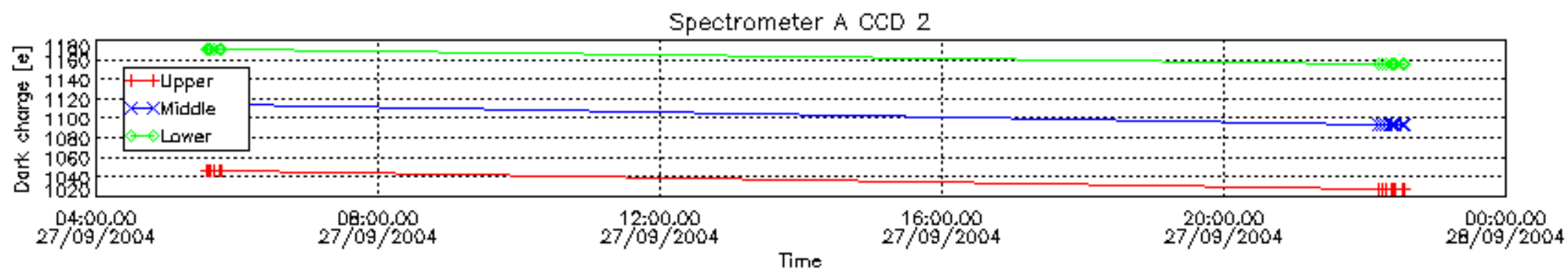
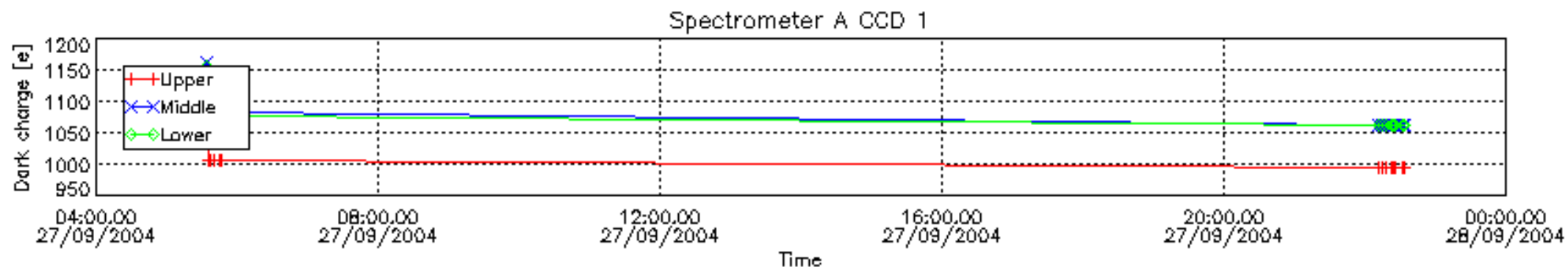


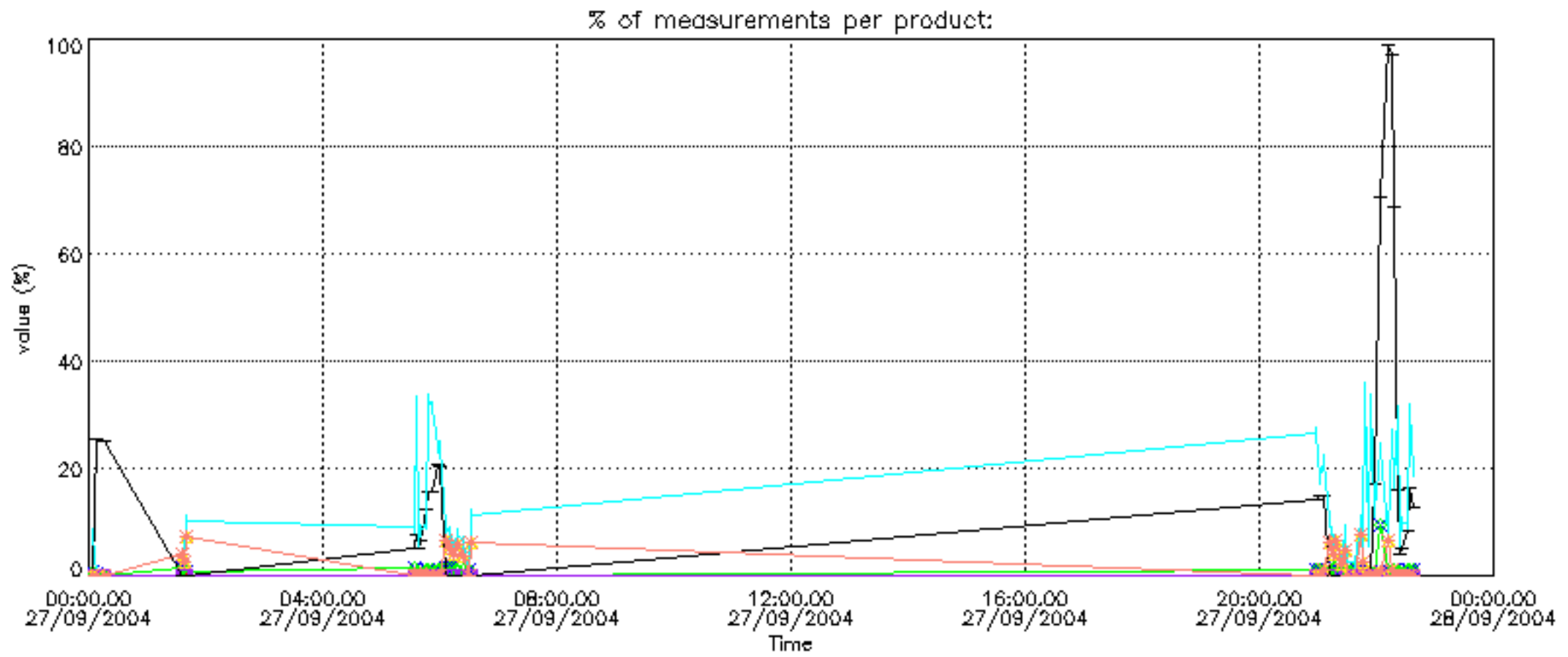
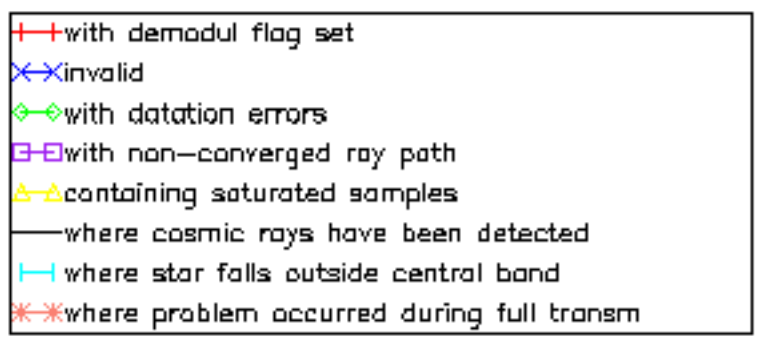
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

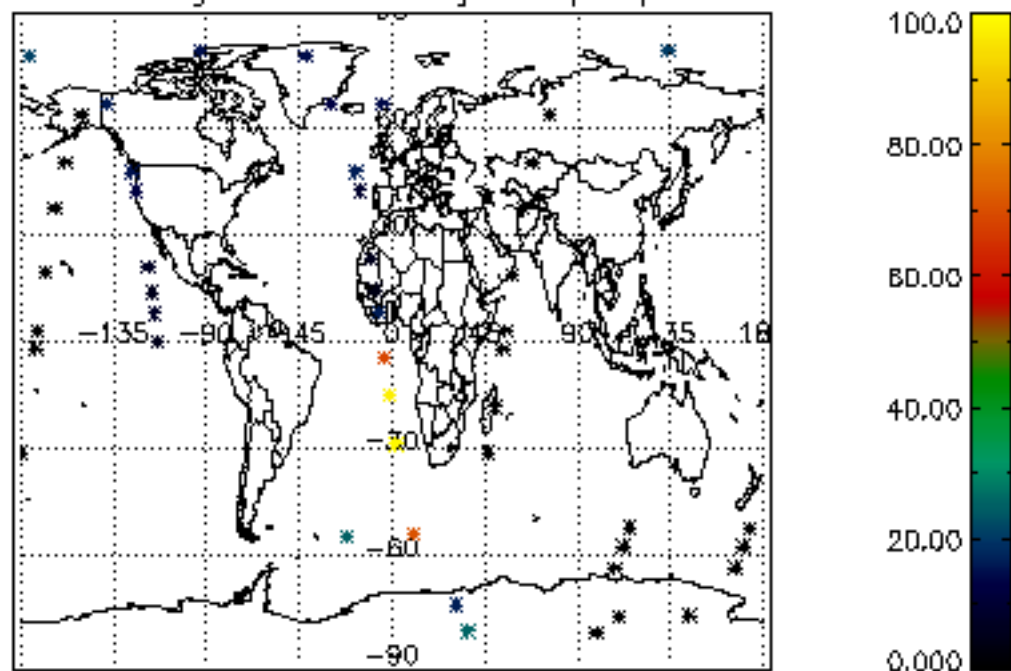
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.2	1447.5	1461.6	1448.5
St. deviation:	5.5603	6.4082	5.9459	6.8883
Maximum:	1497.0	1480.0	1501.0	1498.0
Minimum:	1455.0	1435.0	1431.0	1424.0
Number of data:	21900.	21900.	33500.	33500.



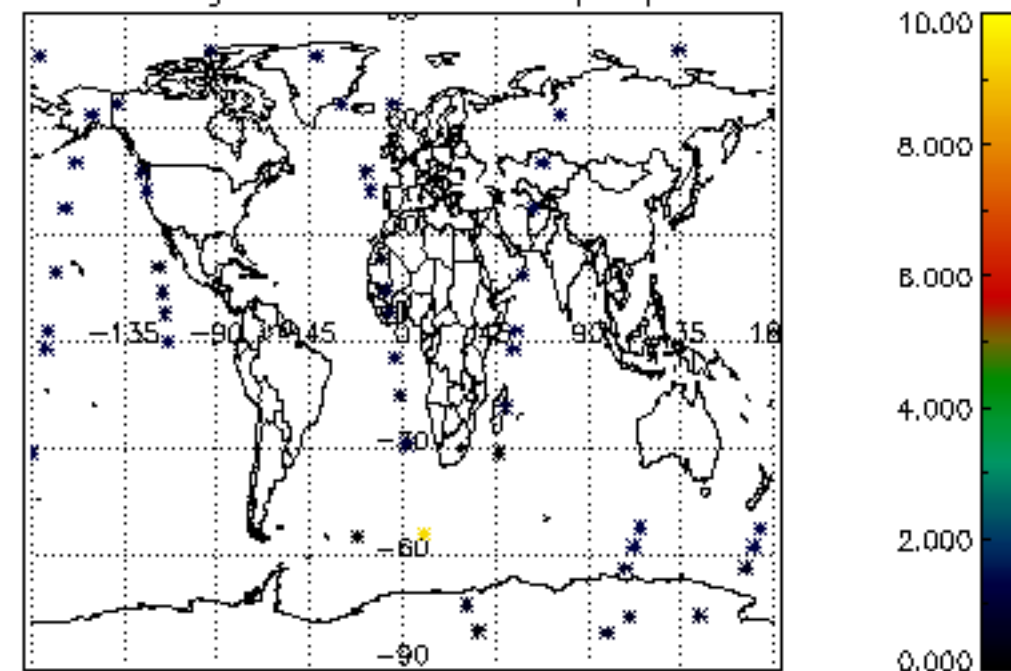




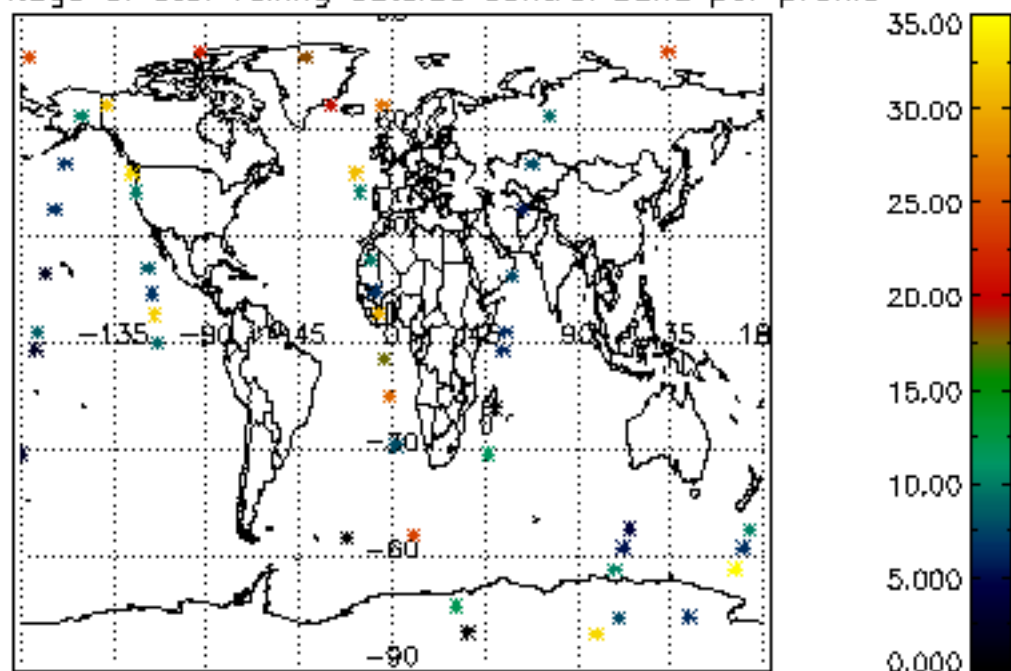
Percentage of cosmic ray hits per profile



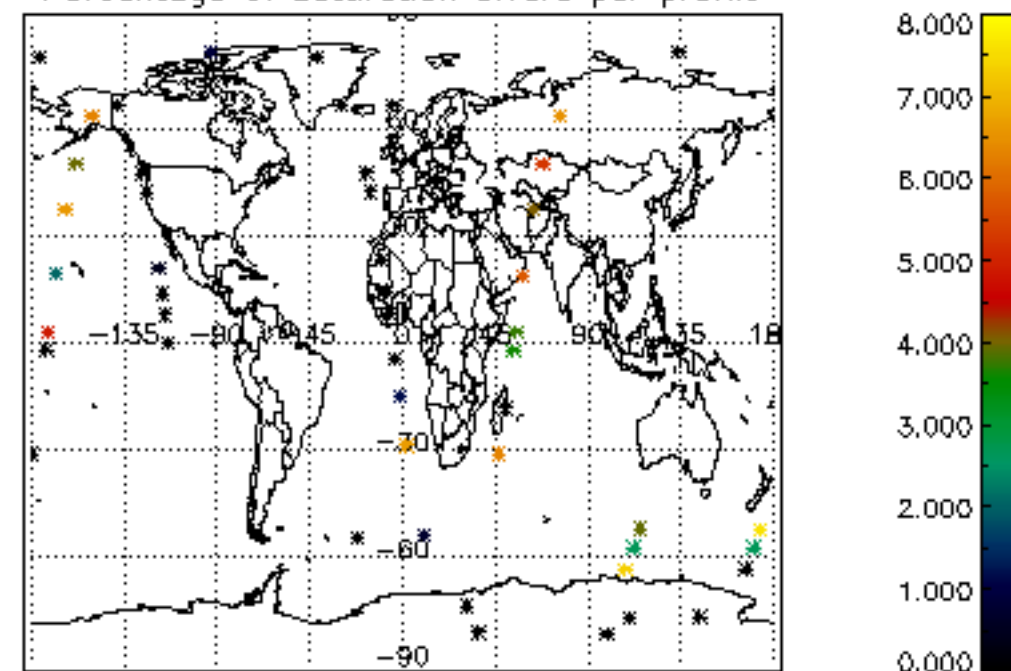
Percentage of datation errors per profile



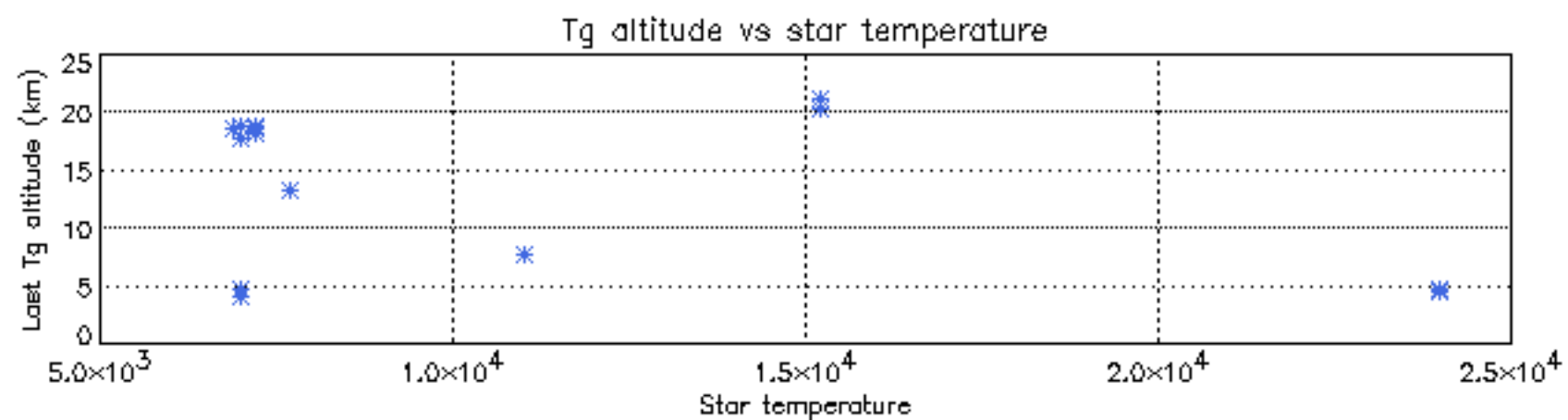
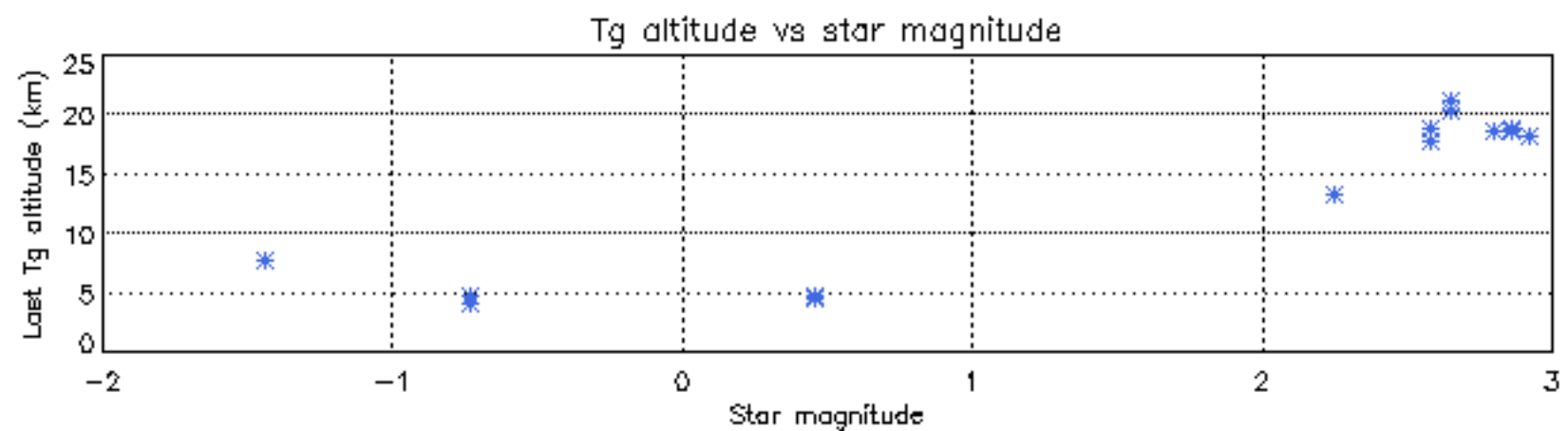
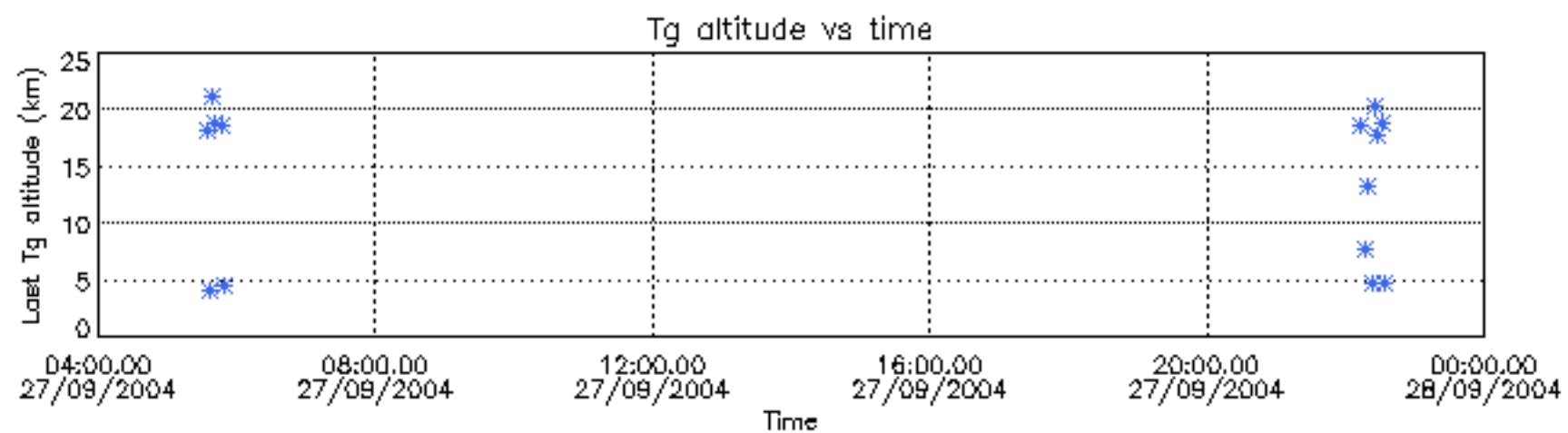
Percentage of star falling outside central band per profile



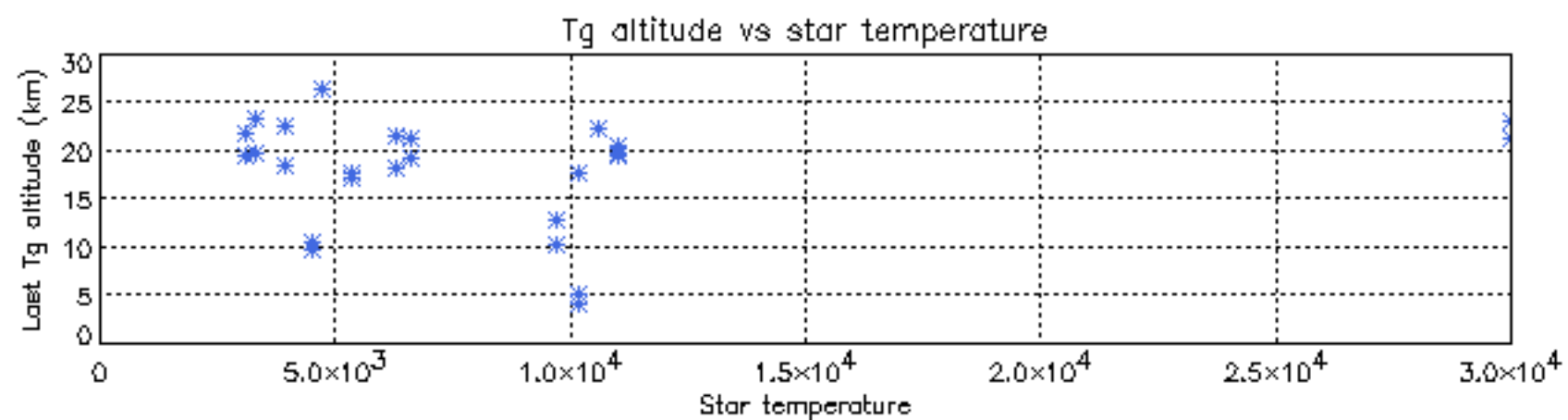
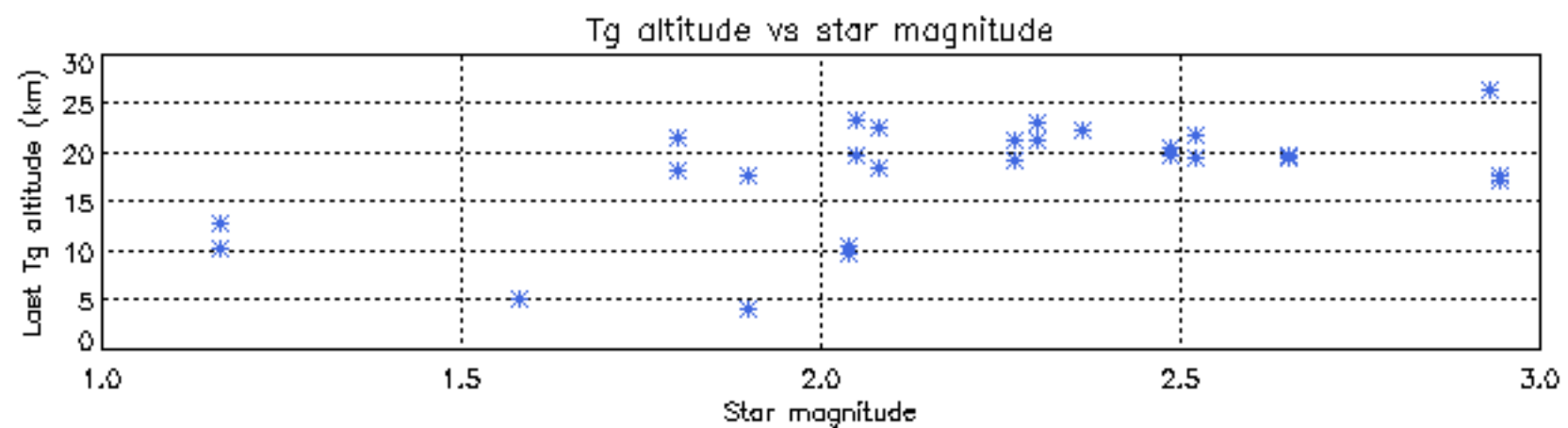
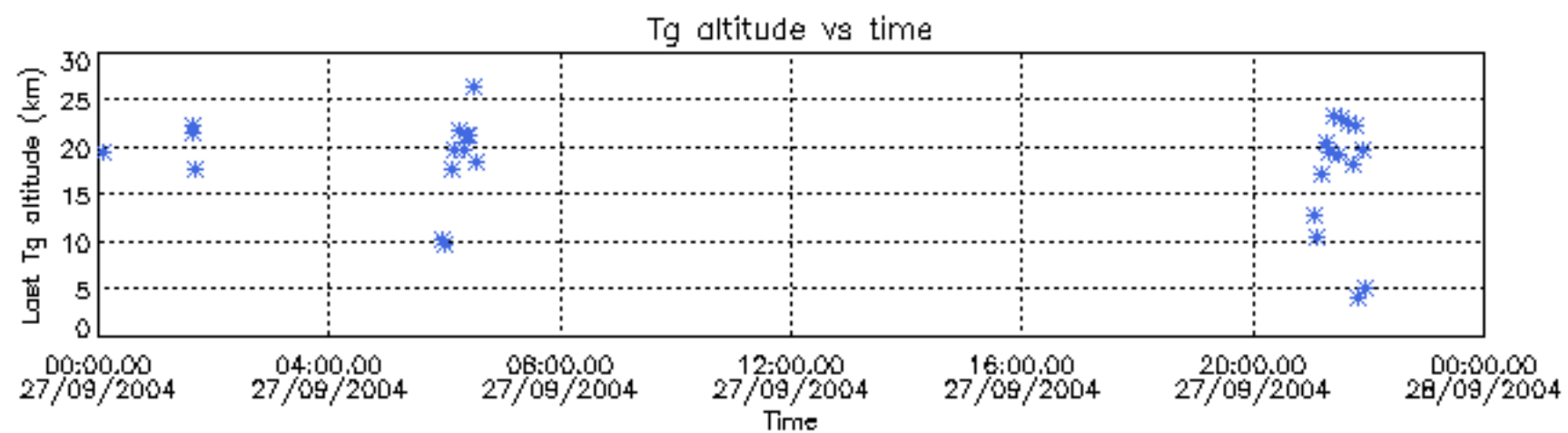
Percentage of saturation errors per profile



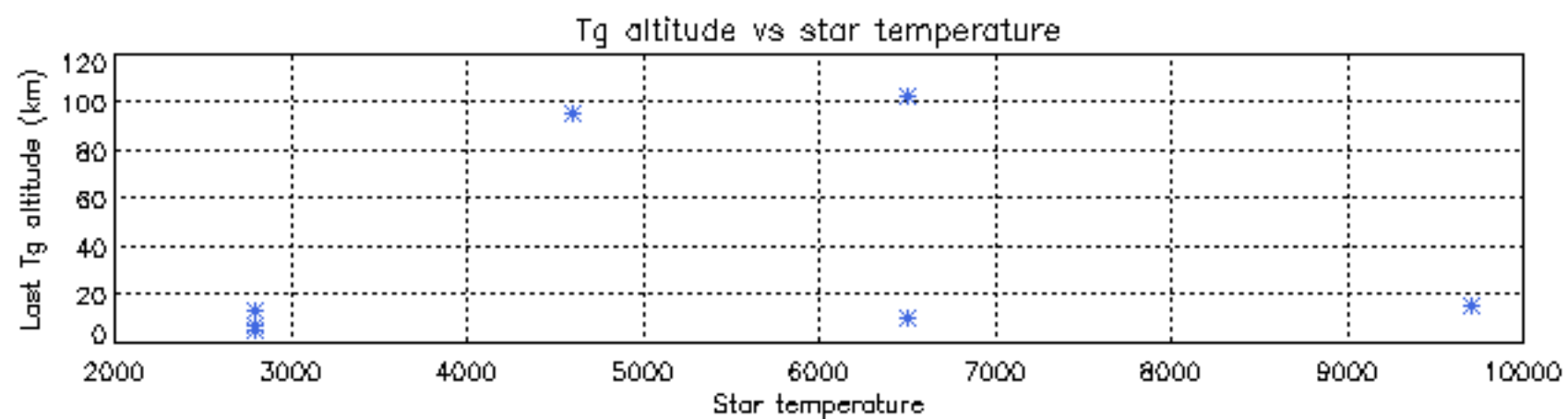
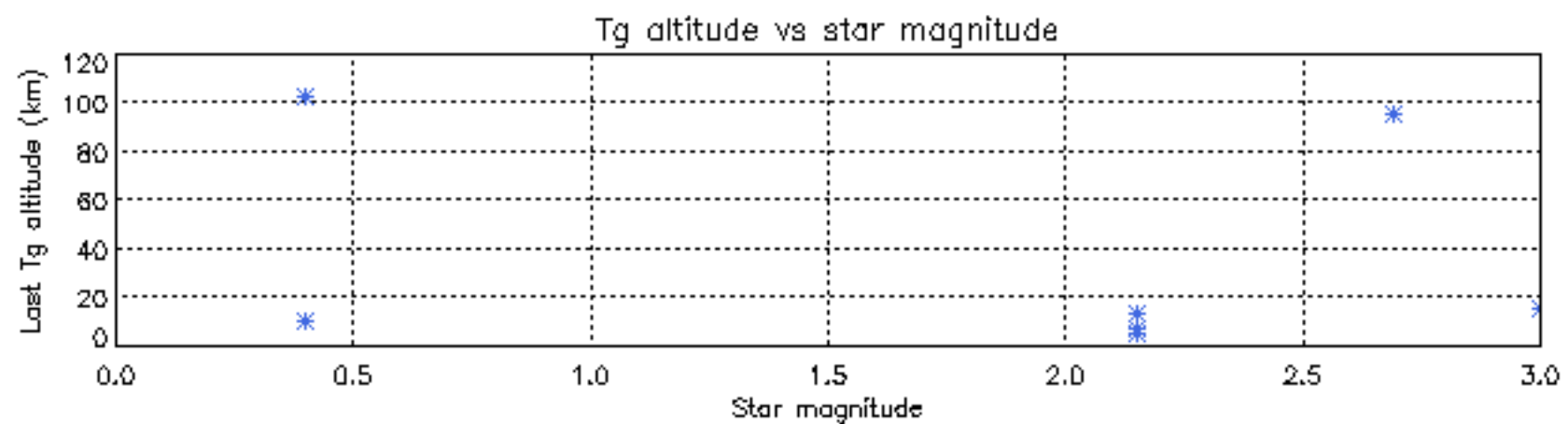
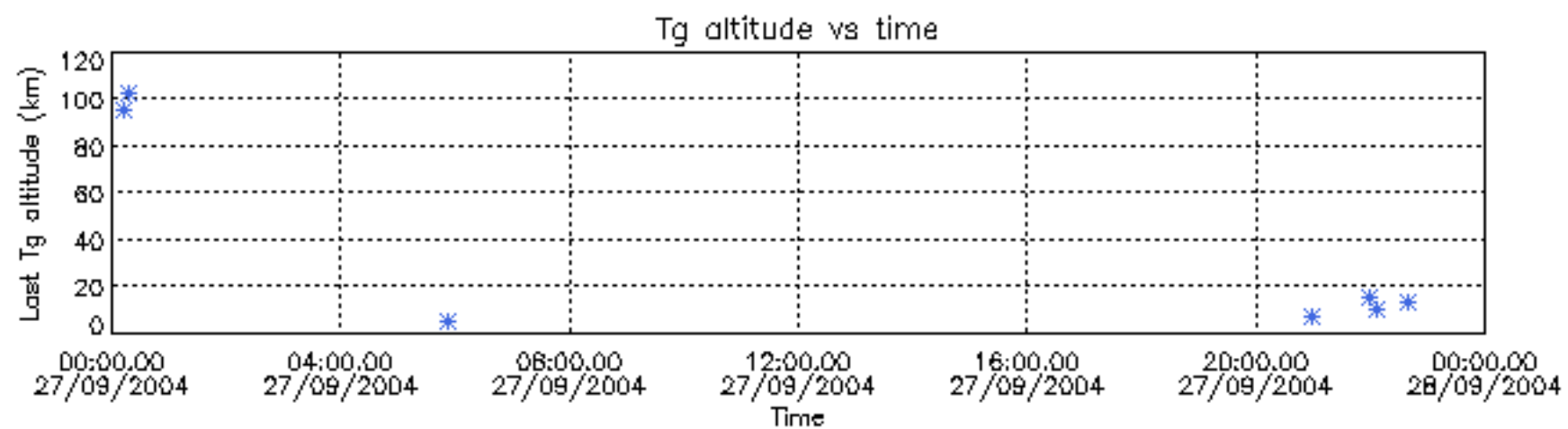
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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11; 1281.7; 10-SEP-2004 23:15:39; Dark ; 40.0; 172; Gam Gru ; 3.00; 13100;occ; 80; 0;13239
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13; 1514.8; 10-SEP-2004 23:19:32; Dark ; 70.5; 52; 16Bet Cet ; 2.04; 4500;occ; 141; 0;13239
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16;	-1668.5;	19-SEP-2004	12:40:06;	Bright;	;	68.5;	107;	37The	Aur	;	2.65;	11000;	occ;	137;	0;	13361
17;	-1473.4;	19-SEP-2004	12:43:21;	Bright;	;	64.0;	17;	78Bet	Gem	;	1.16;	4500;	occ;	128;	0;	13361
18;	-1282.2;	19-SEP-2004	12:46:32;	Dark	;	170.0;	28;	12Bet	Tau	;	1.65;	15200;	occ;	340;	0;	13361
19;	-1002.5;	19-SEP-2004	12:51:12;	Dark	;	58.0;	8;	10Alp	CMi	;	0.40;	6500;	occ;	116;	0;	13361
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22;	-256.7;	19-SEP-2004	13:03:38;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13361
23;	-146.7;	19-SEP-2004	13:05:28;	Dark	;	42.0;	46;	Del	Vel	;	1.95;	10600;	occ;	84;	0;	13361
24;	-52.5;	19-SEP-2004	13:07:02;	Dark	;	50.0;	41;	Eps	Car	;	1.86;	4100;	occ;	100;	0;	13361
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9;-3378.6; 30-SEP-2004 19:48:37; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13523
10;-3086.4; 30-SEP-2004 19:53:30; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;13523
11;-3006.3; 30-SEP-2004 19:54:50; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13523
12;-2769.1; 30-SEP-2004 19:58:47; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;13523
13;-2608.8; 30-SEP-2004 20:01:27; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13523
14;-2485.4; 30-SEP-2004 20:03:31; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;13523
15;-2131.6; 30-SEP-2004 20:09:24; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;13523
16;-2041.6; 30-SEP-2004 20:10:54; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;13523
17;-1848.9; 30-SEP-2004 20:14:07; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;13523
18;-1703.2; 30-SEP-2004 20:16:33; Bright; 90.0; 107; 37The Aur ; 2.65; 11000;occ; 180; 0;13523
19;-1524.7; 30-SEP-2004 20:19:31; Bright; 54.5; 24; 66Alp Gem ; 1.58; 10200;occ; 109; 0;13523
20;-1238.7; 30-SEP-2004 20:24:17; Dark ; 100.0; 170; 27Eps Gem ; 3.00; 9700;occ; 200; 0;13523
21;-872.0; 30-SEP-2004 20:30:24; Dark ; 85.0; 8; 10Alp CMi ; 0.40; 6500;occ; 170; 0;13523
22;-449.5; 30-SEP-2004 20:37:26; Dark ; 50.5; 132; 15Rho Pup ; 2.80; 6900;occ; 101; 0;13523
23;-295.1; 30-SEP-2004 20:40:01; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;13523
24;-203.5; 30-SEP-2004 20:41:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13523
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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
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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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