

GOMOS Daily Report 02-JUN-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	03JUN2004 03:42:51
Data source version	GOMOS/4.02
Start time of products	02-JUN-2004 (02JUN2004 00:00:00)
Stop time of products	03-JUN-2004 (03JUN2004 00:00:00)

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

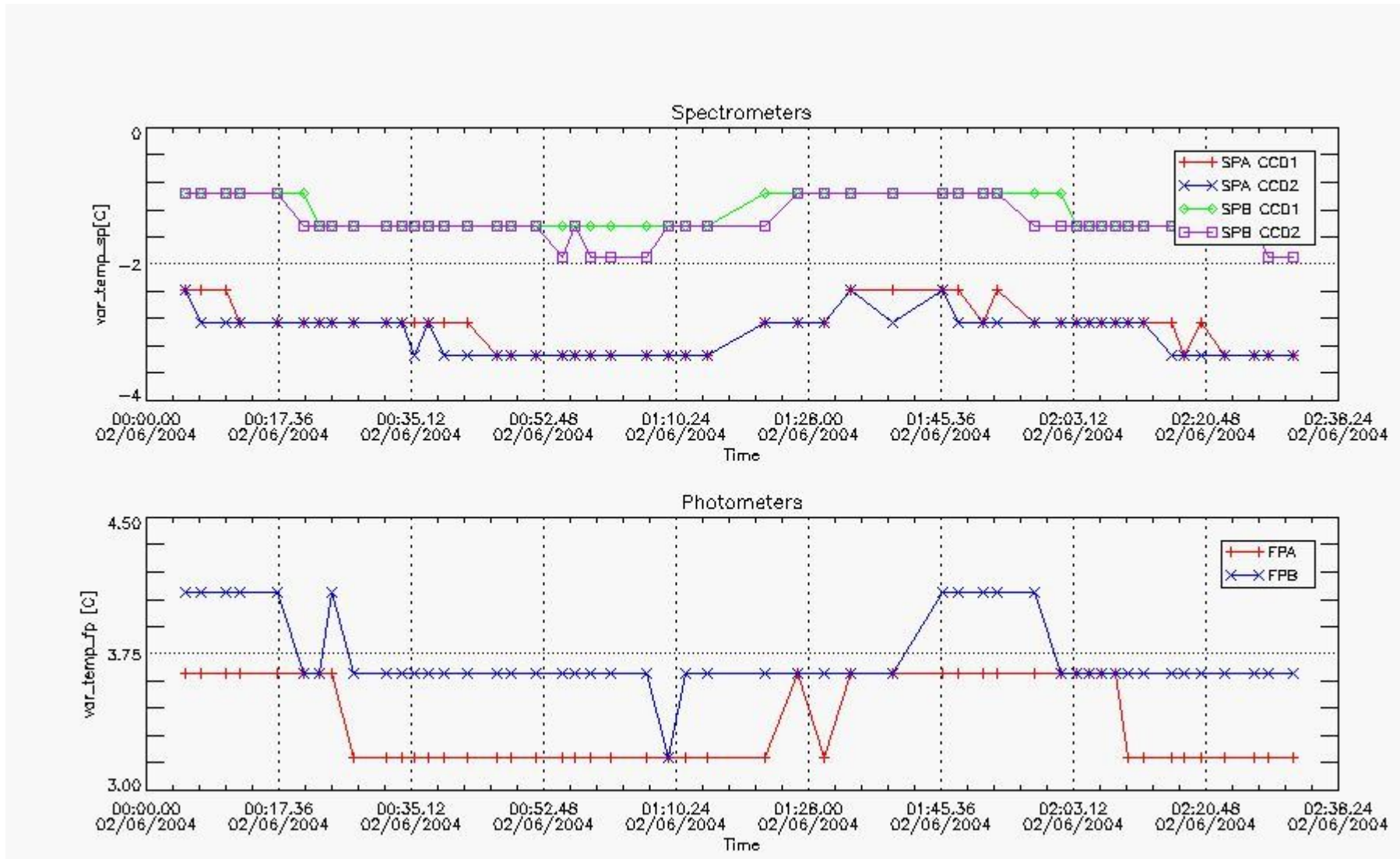
2. Summary of products arrived in PCF

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_1PNPDE20040602_000509_000000452027_00216_11793_0024.N1	02-JUN-2004 00:05:09	Dark	44.500	84	Alp Phe	2.3970	4500.0	89	11793	No
GOM_TRA_1PNPDE20040602_000712_000000412027_00216_11793_0025.N1	02-JUN-2004 00:07:12	Dark	40.500	9	Alp Eri	0.45300	24000.	81	11793	No
GOM_TRA_1PNPDE20040602_001034_000000632027_00217_11794_0026.N1	02-JUN-2004 00:10:34	Dark	63.000	63	Bet Gru	2.1500	2800.0	126	11794	No
GOM_TRA_1PNPDE20040602_001228_000000492027_00217_11794_0027.N1	02-JUN-2004 00:12:28	Dark	49.000	31	Alp Gru	1.7340	15200.	98	11794	No
GOM_TRA_1PNPDE20040602_001721_000000472027_00217_11794_0028.N1	02-JUN-2004 00:17:21	Dark	47.000	45	Alp Pav	1.9400	26000.	94	11794	No
GOM_TRA_1PNPDE20040602_002051_000000492027_00217_11794_0029.N1	02-JUN-2004 00:20:51	Twilight	48.500	43	Alp TrA	1.9100	4250.0	97	11794	No
GOM_TRA_1PNPDE20040602_002253_000000442027_00217_11794_0030.N1	02-JUN-2004 00:22:53	Twilight	43.500	134	Bet TrA	2.8100	6600.0	87	11794	No
GOM_TRA_1PNPDE20040602_002443_000000452027_00217_11794_0031.N1	02-JUN-2004 00:24:43	Bright	45.000	147	Alp Ara	2.8770	26000.	90	11794	No
GOM_TRA_1PNPDE20040602_002737_000000562027_00217_11794_0032.N1	02-JUN-2004 00:27:37	Bright	56.000	38	20Eps Sgr	1.8360	11000.	112	11794	No
GOM_TRA_1PNPDE20040602_003157_000000442027_00217_11794_0000.N1	02-JUN-2004 00:31:57	Bright	44.000	136	23Tau Sco	2.8220	30000.	88	11794	No
GOM_TRA_1PNPDE20040602_003401_000000402027_00217_11794_0001.N1	02-JUN-2004 00:34:01	Bright	40.000	80	7Del Sco	2.3160	30000.	80	11794	No
GOM_TRA_1PNPDE20040602_003534_000000472027_00217_11794_0002.N1	02-JUN-2004 00:35:34	Bright	47.000	86	35Eta Oph	2.4300	10200.	94	11794	No
GOM_TRA_1PNPDE20040602_003724_000000432027_00217_11794_0003.N1	02-JUN-2004 00:37:24	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	11794	No
GOM_TRA_1PNPDE20040602_003934_000000422027_00217_11794_0004.N1	02-JUN-2004 00:39:34	Bright	41.500	120	1Del Oph	2.7340	3200.0	83	11794	No
GOM_TRA_1PNPDE20040602_004235_000000392027_00217_11794_0005.N1	02-JUN-2004 00:42:35	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	11794	No
GOM_TRA_1PNPDE20040602_004641_000000412027_00217_11794_0006.N1	02-JUN-2004 00:46:41	Bright	40.500	3	16Alp Boo	-0.050000	4250.0	81	11794	No
GOM_TRA_1PNPDE20040602_004828_000000372027_00217_11794_0007.N1	02-JUN-2004 00:48:28	Bright	36.500	67	5Alp CrB	2.2210	11000.	73	11794	No
GOM_TRA_1PNPDE20040602_005146_000000372027_00217_11794_0008.N1	02-JUN-2004 00:51:46	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	11794	No
GOM_TRA_1PNPDE20040602_005513_000000382027_00217_11794_0009.N1	02-JUN-2004 00:55:13	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	11794	No
GOM_TRA_1PNPDE20040602_005700_000000412027_00217_11794_0010.N1	02-JUN-2004 00:57:00	Bright	41.000	55	79Zet UMa	2.0600	10200.	82	11794	No
GOM_TRA_1PNPDE20040602_005900_000000412027_00217_11794_0011.N1	02-JUN-2004 00:59:00	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	11794	No
GOM_TRA_1PNPDE20040602_010147_000000392027_00217_11794_0012.N1	02-JUN-2004 01:01:47	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	11794	No
GOM_TRA_1PNPDE20040602_010627_000000352027_00217_11794_0013.N1	02-JUN-2004 01:06:27	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	11794	No
GOM_TRA_1PNPDE20040602_010918_000000502027_00217_11794_0014.N1	02-JUN-2004 01:09:18	Bright	50.000	89	5Alp Cep	2.4510	8000.0	100	11794	No
GOM_TRA_1PNPDE20040602_011134_000000812027_00217_11794_0015.N1	02-JUN-2004 01:11:34	Bright	80.500	19	50Alp Cyg	1.2460	10500.	161	11794	No
GOM_TRA_1PNPDE20040602_011428_000000412027_00217_11794_0016.N1	02-JUN-2004 01:14:28	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	11794	No
GOM_TRA_1PNPDE20040602_012216_000001712027_00217_11794_0017.N1	02-JUN-2004 01:22:16	Twilight	171.00	92	53Eps Cyg	2.5000	4500.0	342	11794	No
GOM_TRA_1PNPDE20040602_012638_000001012027_00217_11794_0018.N1	02-JUN-2004 01:26:38	Twilight	101.00	93	53Bet Peg	2.5200	3100.0	202	11794	No
GOM_TRA_1PNPDE20040602_013003_000000572027_00217_11794_0019.N1	02-JUN-2004 01:30:03	Dark	56.500	140	88Gam Peg	2.8340	26000.	113	11794	No
GOM_TRA_1PNPDE20040602_013339_000000952027_00217_11794_0020.N1	02-JUN-2004 01:33:39	Dark	94.500	90	54Alp Peg	2.4870	11000.	189	11794	No
GOM_TRA_1PNPDE20040602_013905_000000532027_00217_11794_0021.N1	02-JUN-2004 01:39:05	Dark	52.500	52	16Bet Cet	2.0370	4500.0	105	11794	No
GOM_TRA_1PNPDE20040602_014546_000000492027_00217_11794_0022.N1	02-JUN-2004 01:45:46	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	11794	No
GOM_TRA_1PNPDE20040602_014748_000000472027_00217_11794_0023.N1	02-JUN-2004 01:47:48	Dark	46.500	9	Alp Eri	0.45300	24000.	93	11794	No
GOM_TRA_1PNPDE20040602_015111_000000532027_00218_11795_0024.N1	02-JUN-2004 01:51:11	Dark	53.000	63	Bet Gru	2.1500	2800.0	106	11795	No
GOM_TRA_1PNPDE20040602_015305_000000502027_00218_11795_0025.N1	02-JUN-2004 01:53:05	Dark	49.500	31	Alp Gru	1.7340	15200.	99	11795	No
GOM_TRA_1PNPDE20040602_015757_000000472027_00218_11795_0026.N1	02-JUN-2004 01:57:57	Dark	46.500	45	Alp Pav	1.9400	26000.	93	11795	No
GOM_TRA_1PNPDE20040602_020127_000000442027_00218_11795_0027.N1	02-JUN-2004 02:01:27	Twilight	43.500	43	Alp TrA	1.9100	4250.0	87	11795	No
GOM_TRA_1PNPDE20040602_020331_000000402027_00218_11795_0028.N1	02-JUN-2004 02:03:31	Twilight	39.500	134	Bet TrA	2.8100	6600.0	79	11795	No
GOM_TRA_1PNPDE20040602_020520_000000442027_00218_11795_0029.N1	02-JUN-2004 02:05:20	Bright	44.000	147	Alp Ara	2.8770	26000.	88	11795	No
GOM_TRA_1PNPDE20040602_020701_000000512027_00218_11795_0030.N1	02-JUN-2004 02:07:01	Bright	51.000	40	The Sco	1.8590	7100.0	102	11795	No
GOM_TRA_1PNPDE20040602_020849_000000502027_00218_11795_0031.N1	02-JUN-2004 02:08:49	Bright	49.500	25	35Lam Sco	1.6200	28000.	99	11795	No
GOM_TRA_1PNPDE20040602_021032_000000472027_00218_11795_0032.N1	02-JUN-2004 02:10:32	Bright	47.000	75	26Eps Sco	2.2910	4250.0	94	11795	No
GOM_TRA_1PNPDE20040602_021233_000000442027_00218_11795_0033.N1	02-JUN-2004 02:12:33	Bright	44.000	136	23Tau Sco	2.8220	30000.	88	11795	No
GOM_TRA_1PNPDE20040602_021610_000000462027_00218_11795_0000.N1	02-JUN-2004 02:16:10	Bright	46.000	86	35Eta Oph	2.4300	10200.	92	11795	No
GOM_TRA_1PNPDE20040602_021759_000000432027_00218_11795_0001.N1	02-JUN-2004 02:17:59	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	11795	No
GOM_TRA_1PNPDE20040602_022010_000000422027_00218_11795_0002.N1	02-JUN-2004 02:20:10	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	11795	No
GOM_TRA_1PNPDE20040602_022311_000000392027_00218_11795_0003.N1	02-JUN-2004 02:23:11	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	11795	No
GOM_TRA_1PNPDE20040602_022717_000000372027_00218_11795_0004.N1	02-JUN-2004 02:27:17	Bright	37.000	3	16Alp Boo	-0.050000	4250.0	74	11795	No
GOM_TRA_1PNPDE20040602_022904_000000392027_00218_11795_0005.N1	02-JUN-2004 02:29:04	Bright	38.500	67	5Alp CrB	2.2210	11000.	77	11795	No

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



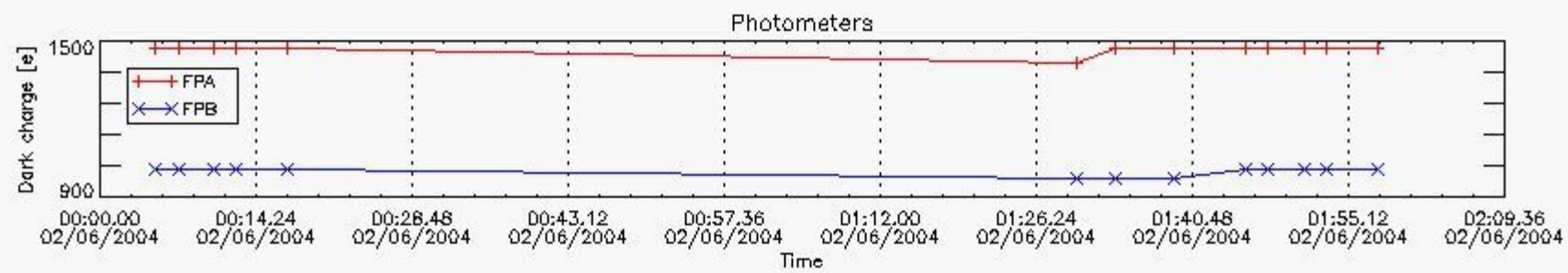
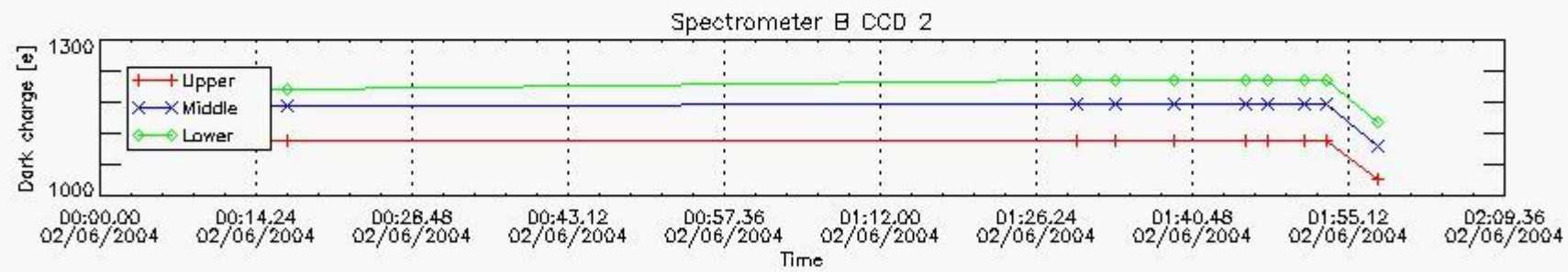
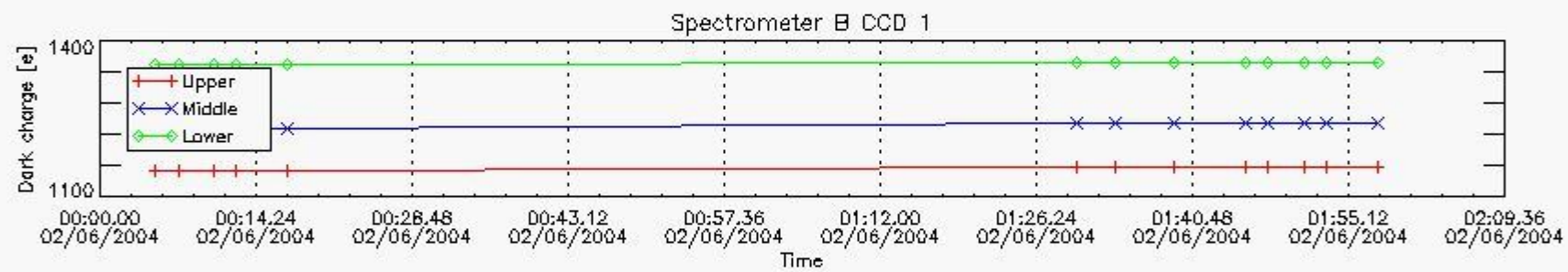
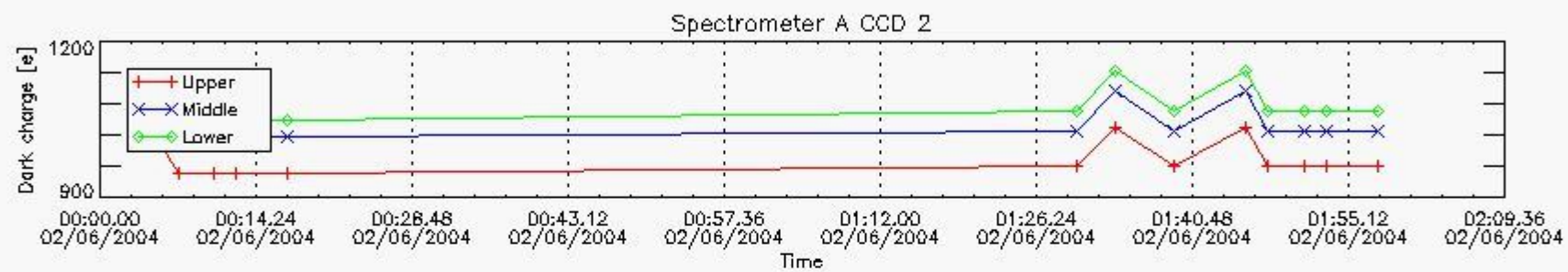
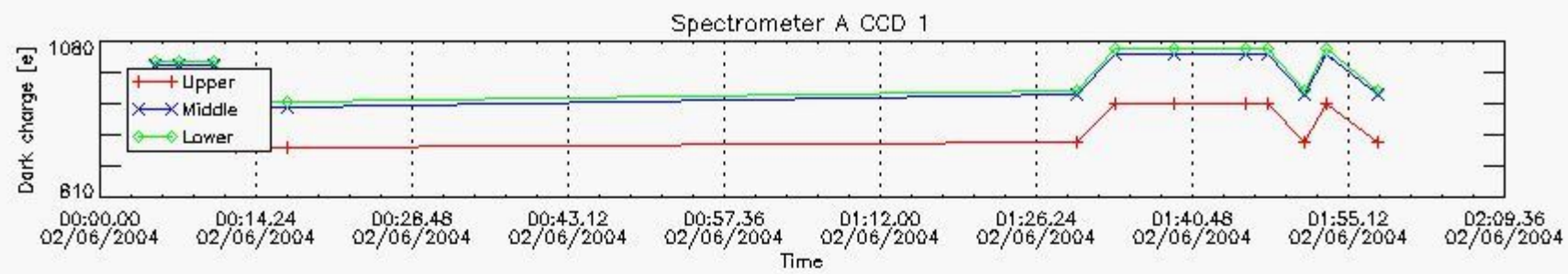
4. Overview of dark signal processing per product

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



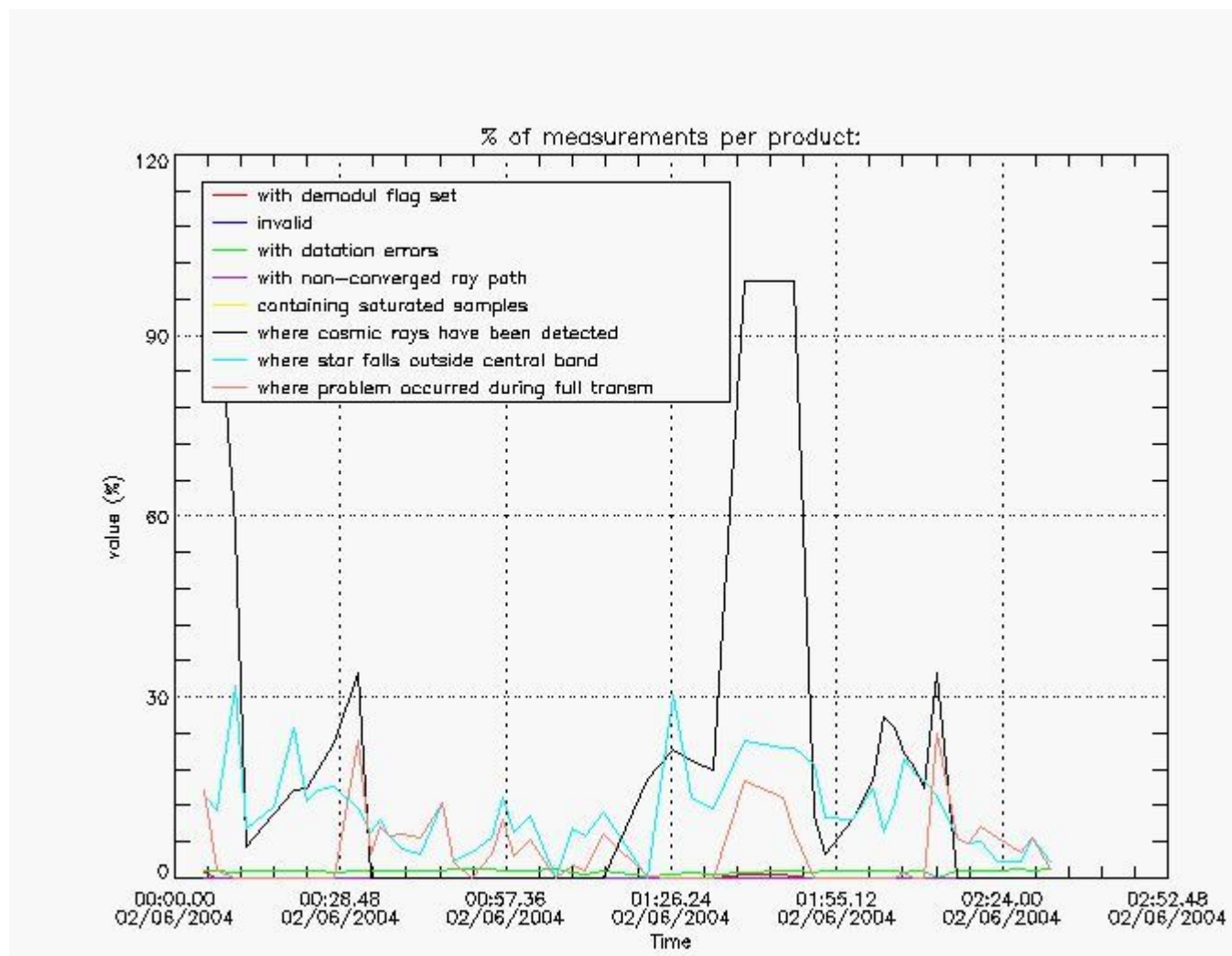
5. Demodulation flag and quality information monitoring

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.

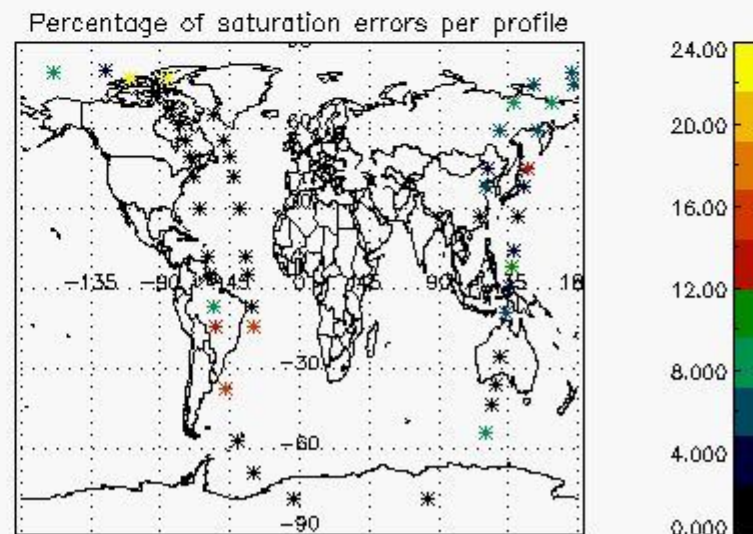
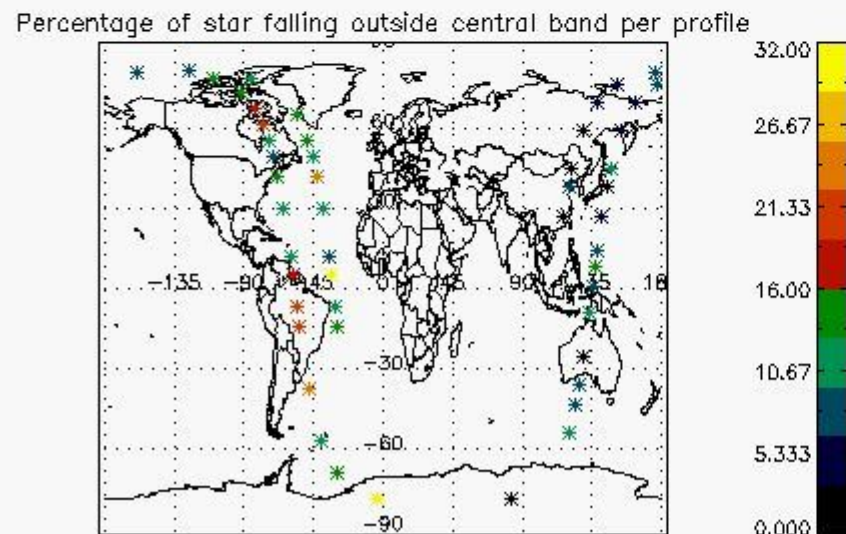
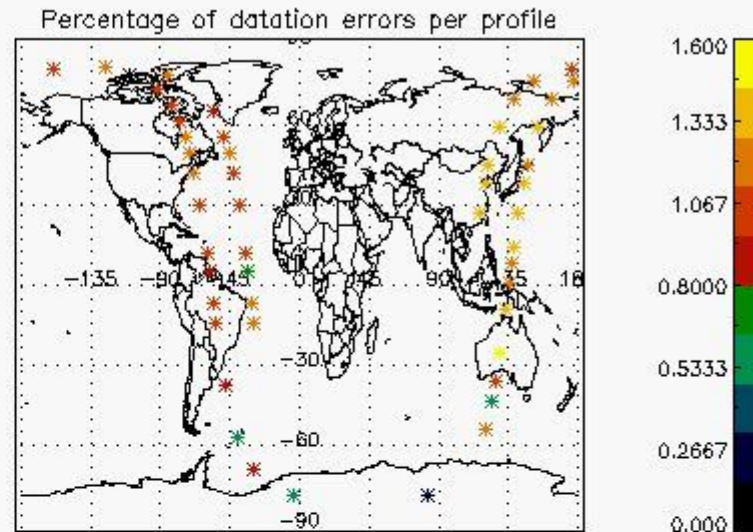
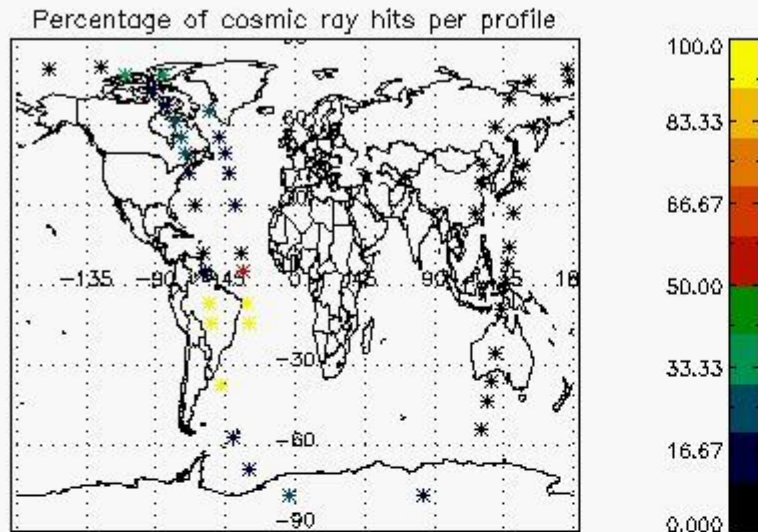
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)



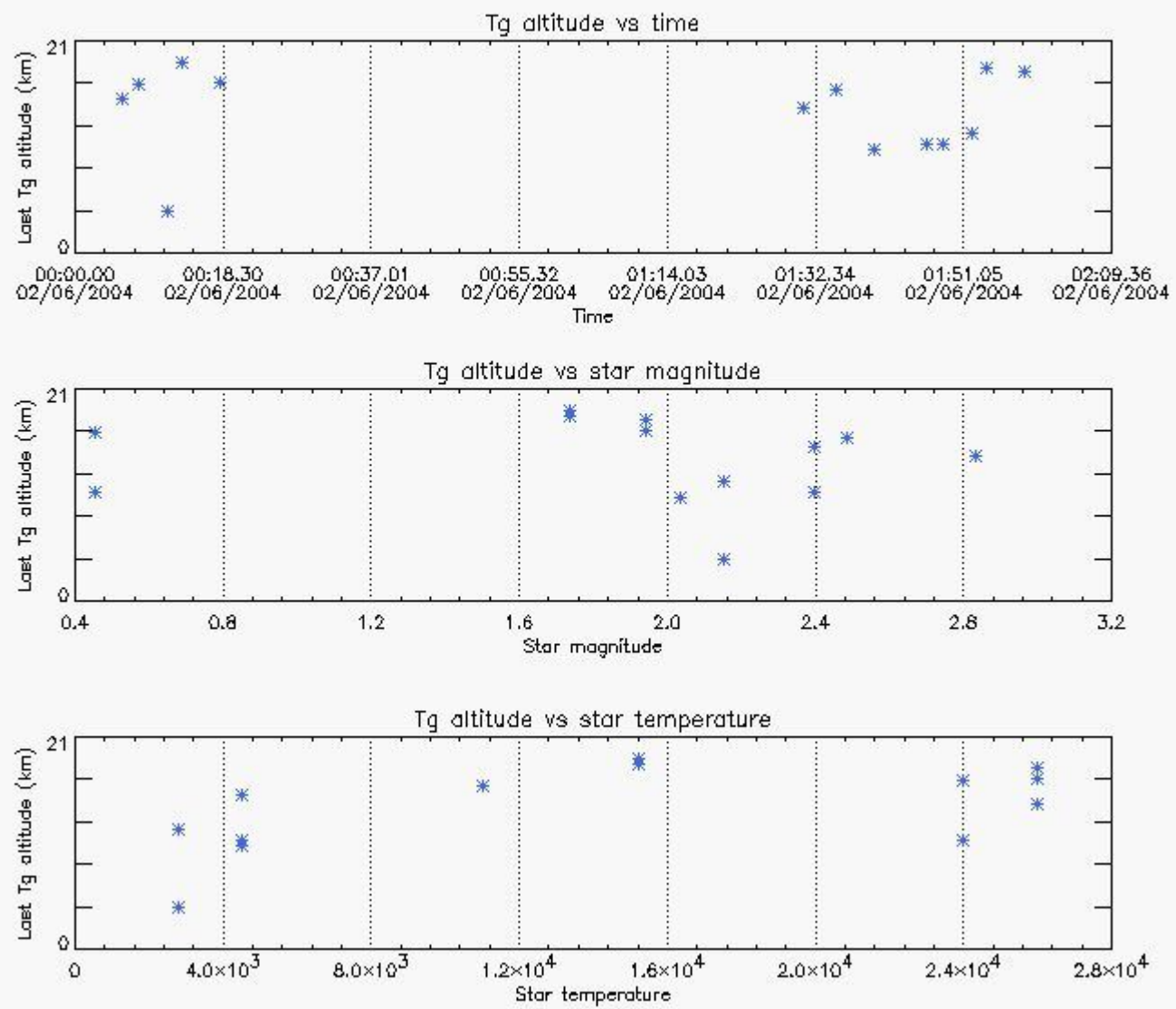
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.009	19.296	29.562
St. deviation:	4.2549	3.8941	40.881
Maximum:	18.932	30.896	112.48
Minimum:	4.1084	11.454	6.5506
Number of data:	13.000	31.000	6.0000

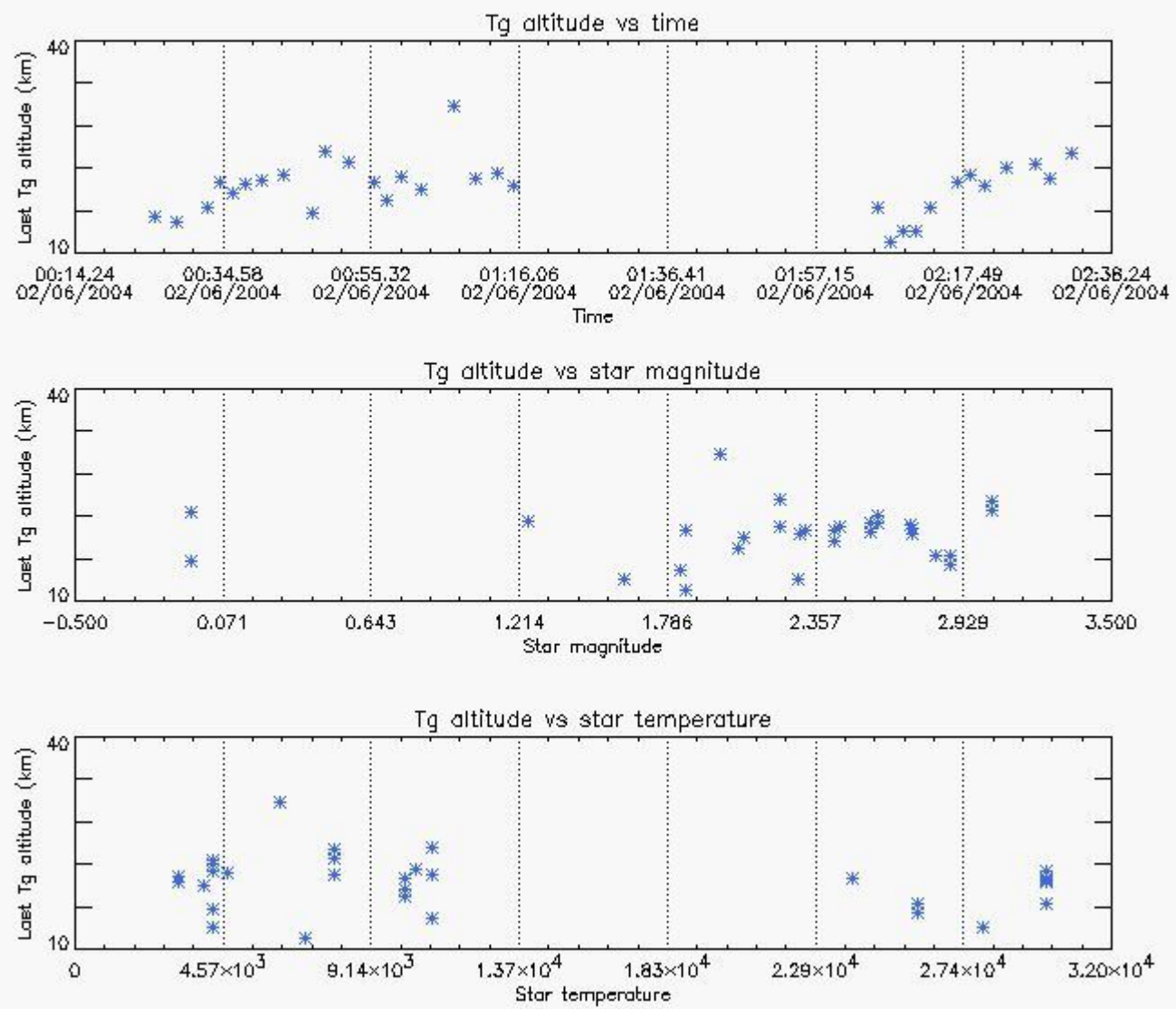
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



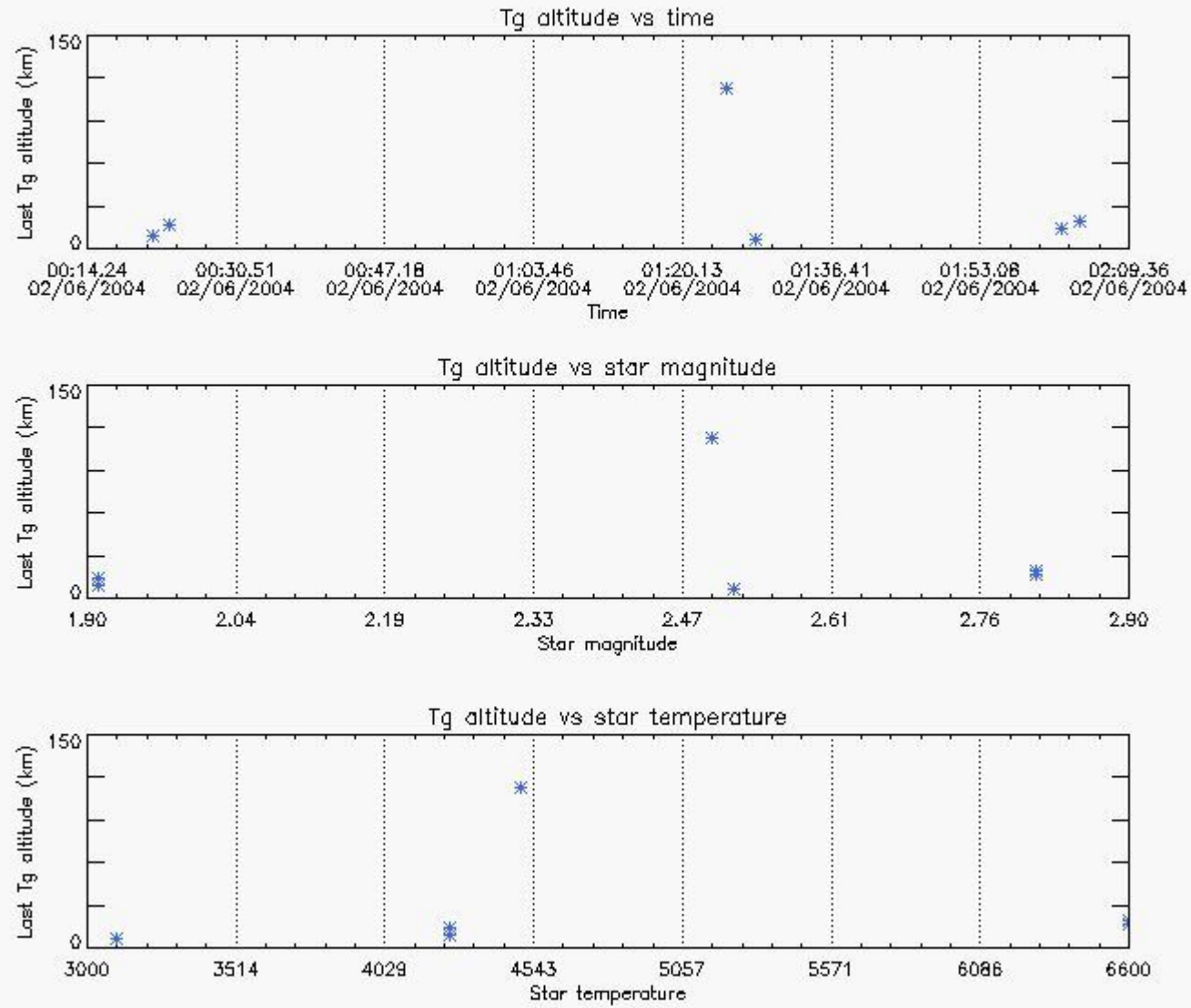
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

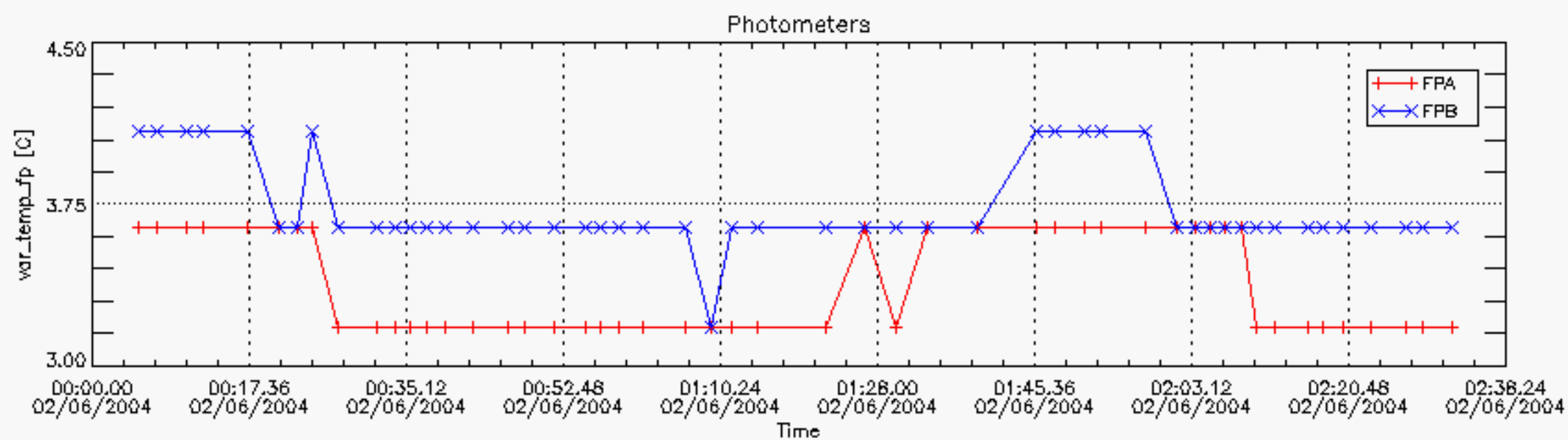
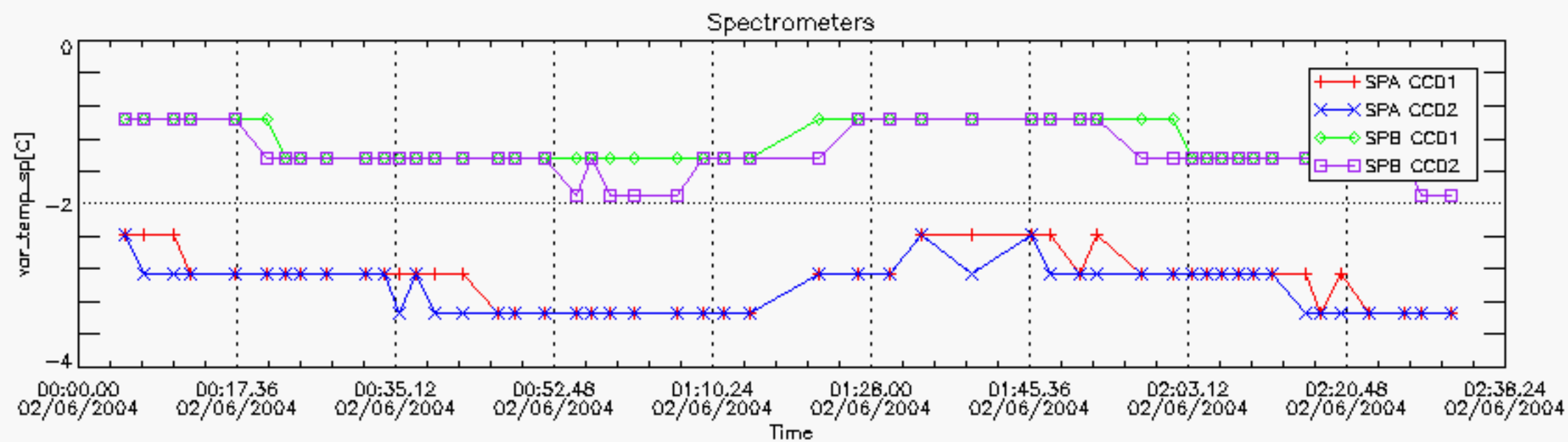
Tangent altitude at which the star is lost

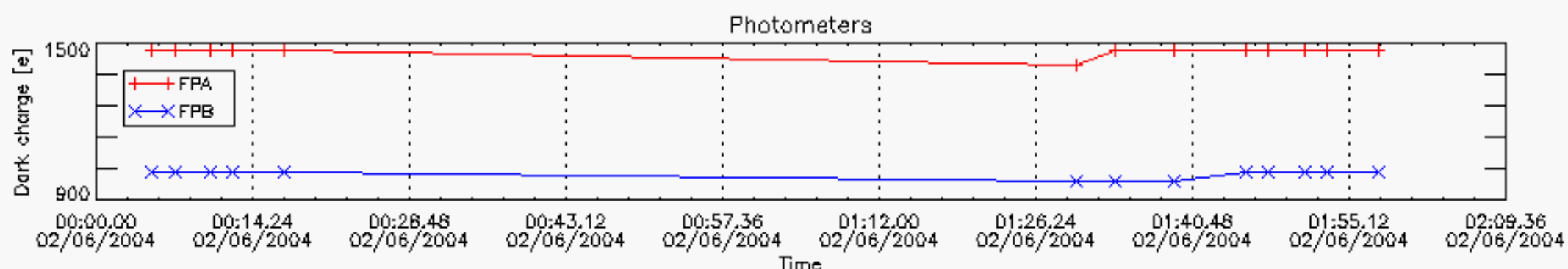
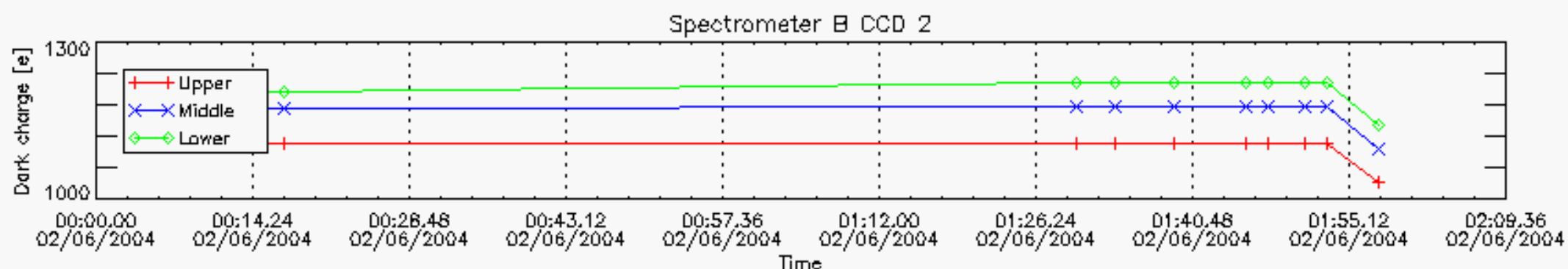
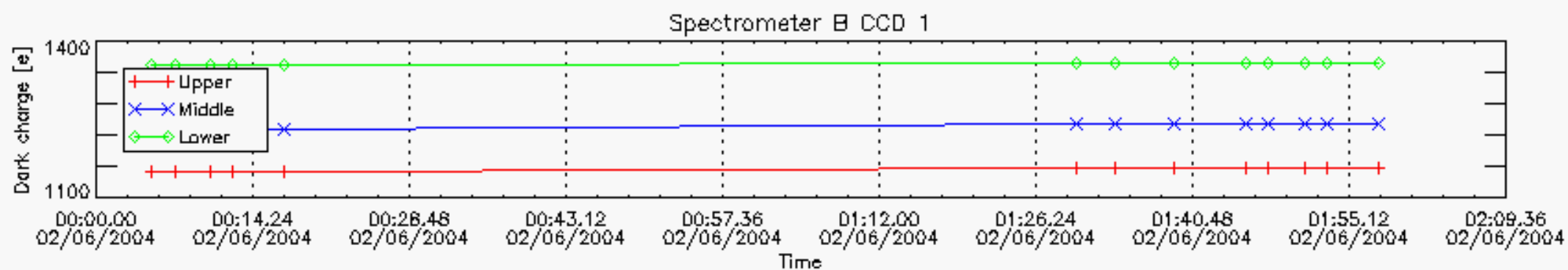
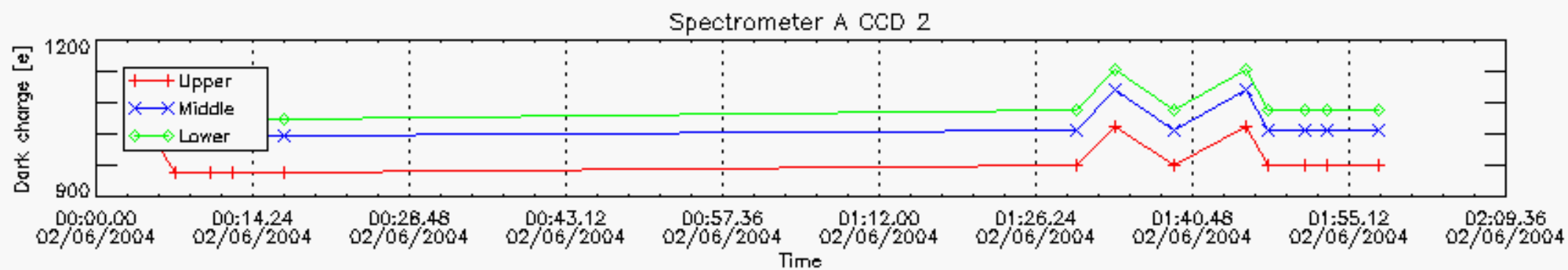
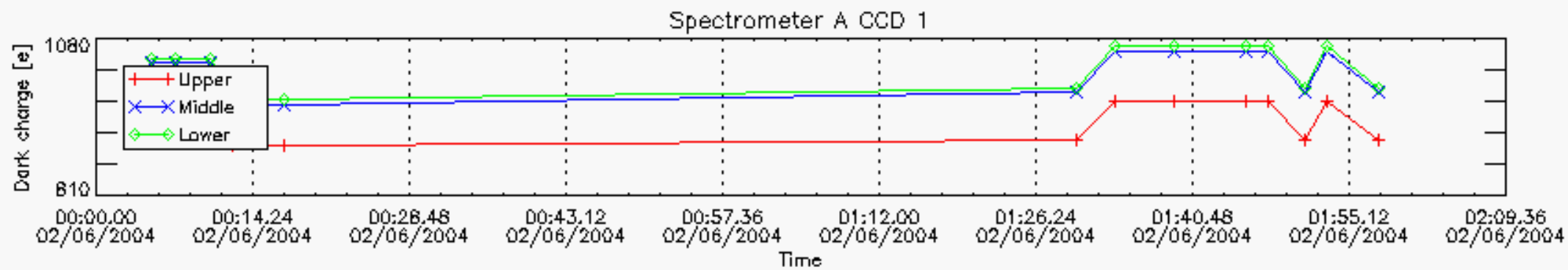


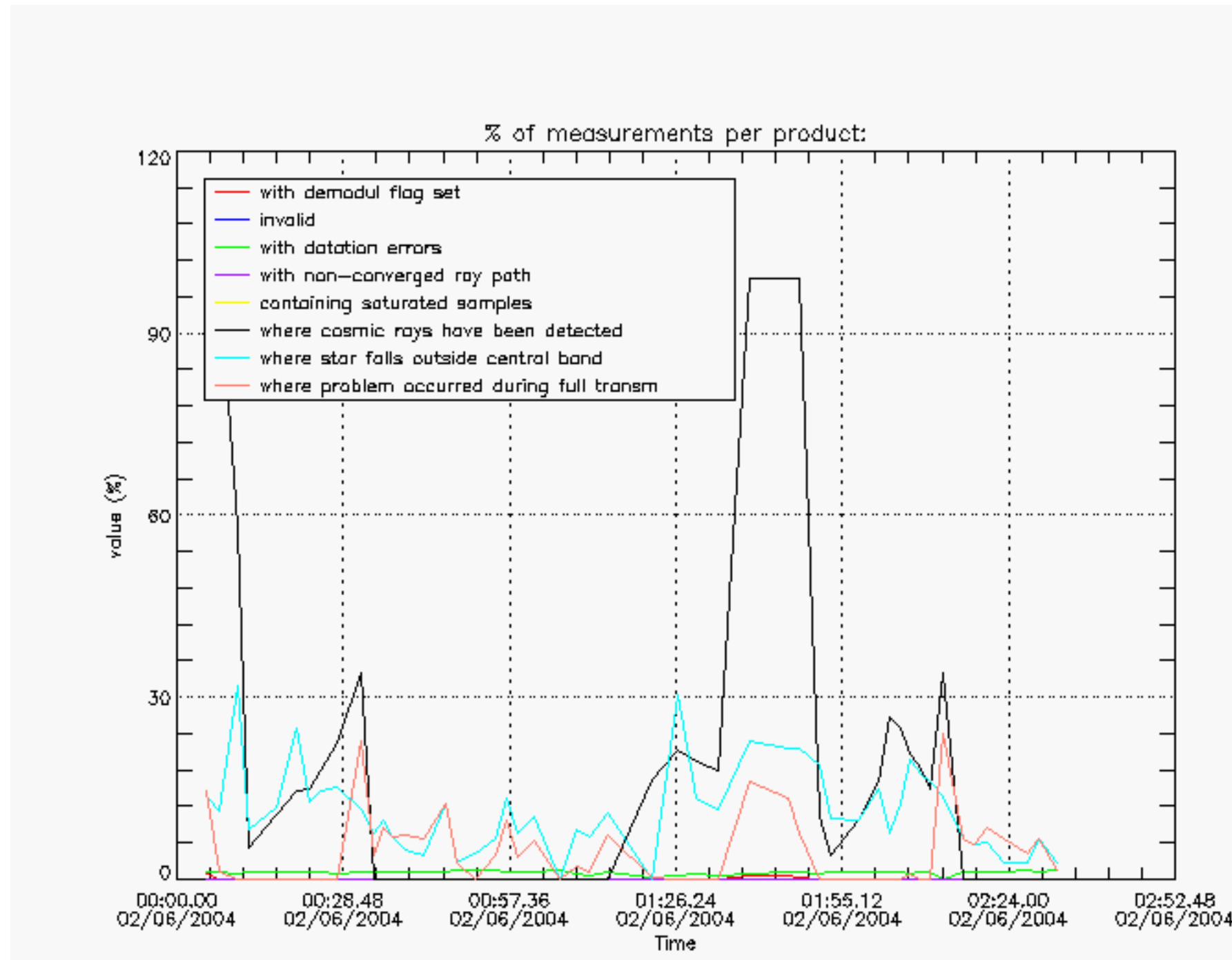
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

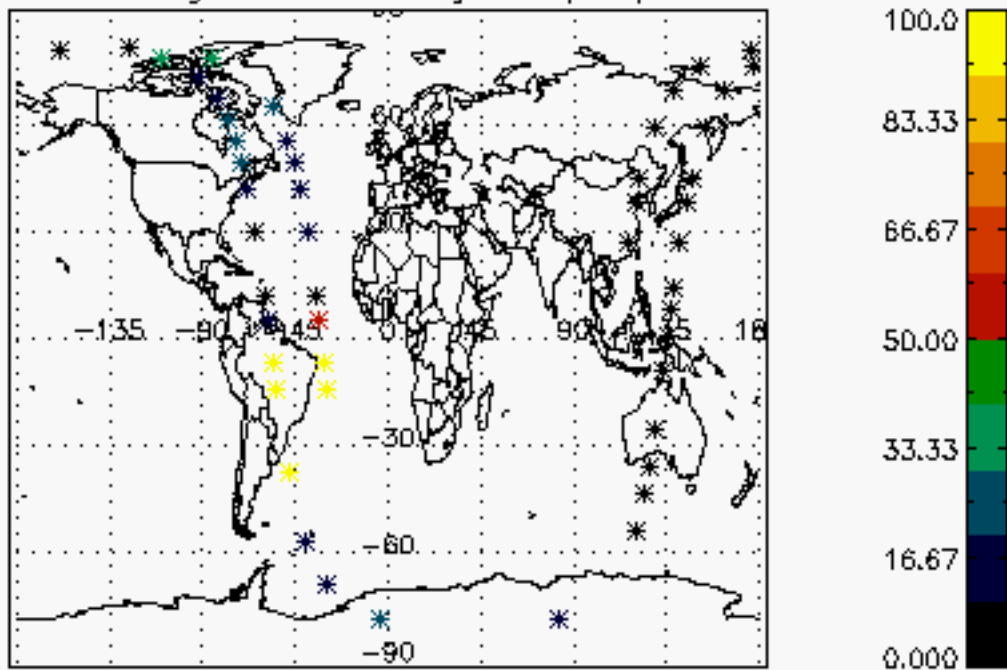
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.5	1448.0	1461.8	1447.1
St. deviation:	4.8709	5.9001	7.1711	8.5533
Maximum:	1544.0	1572.0	1506.0	1494.0
Minimum:	1439.0	1419.0	1408.0	1398.0
Number of data:	17500.	17500.	35800.	35800.



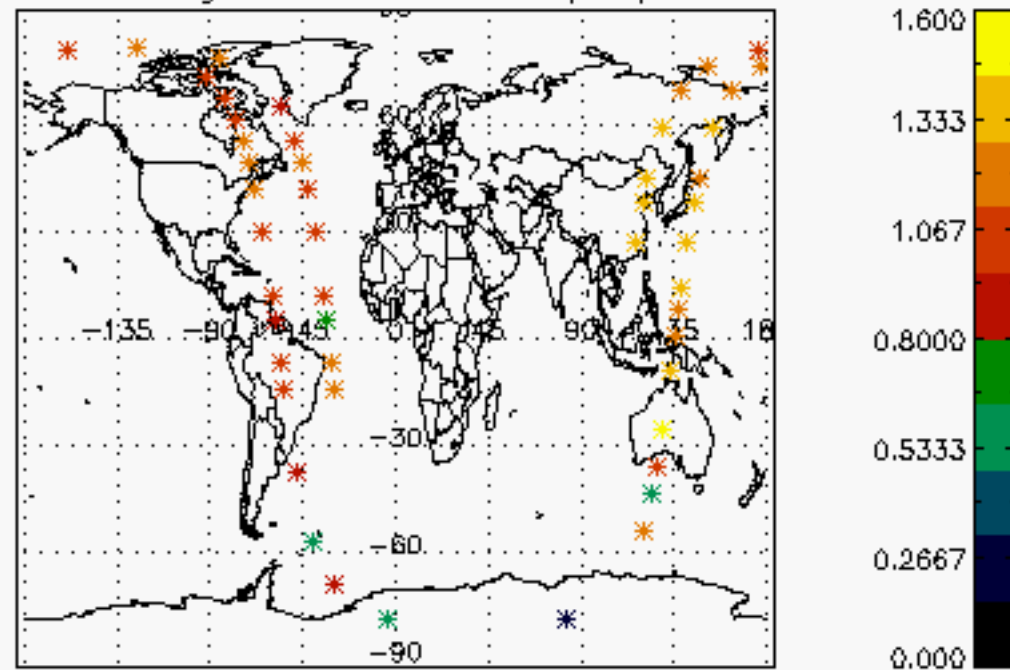




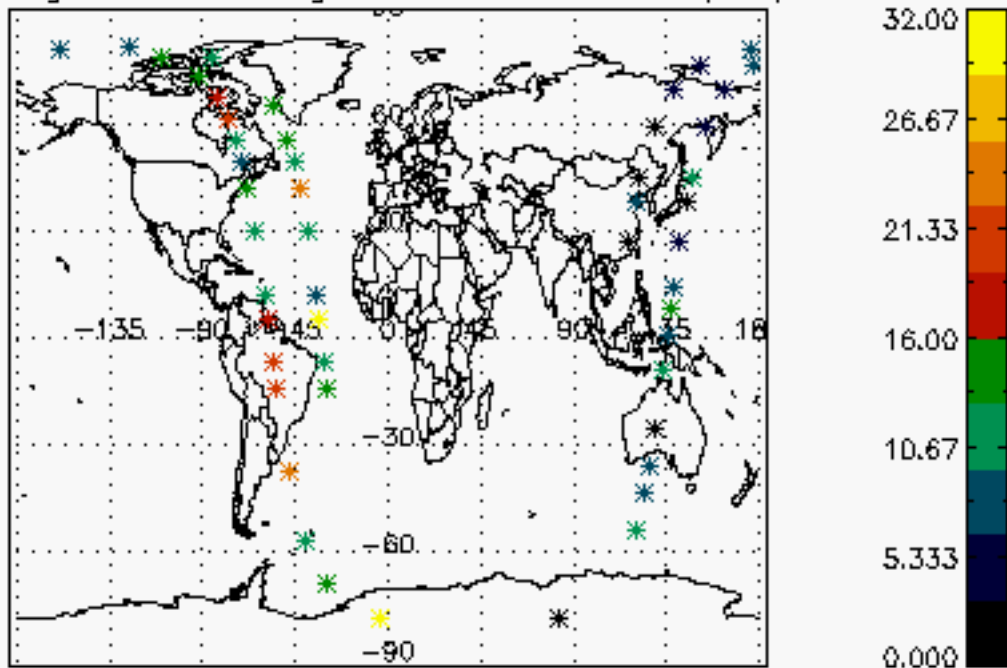
Percentage of cosmic ray hits per profile



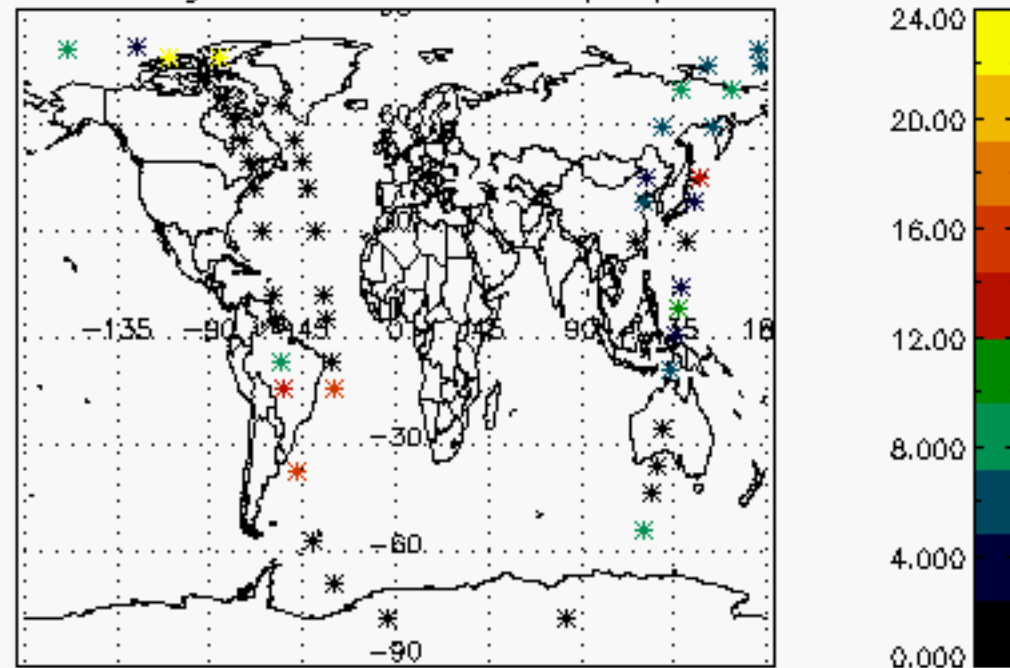
Percentage of datation errors per profile



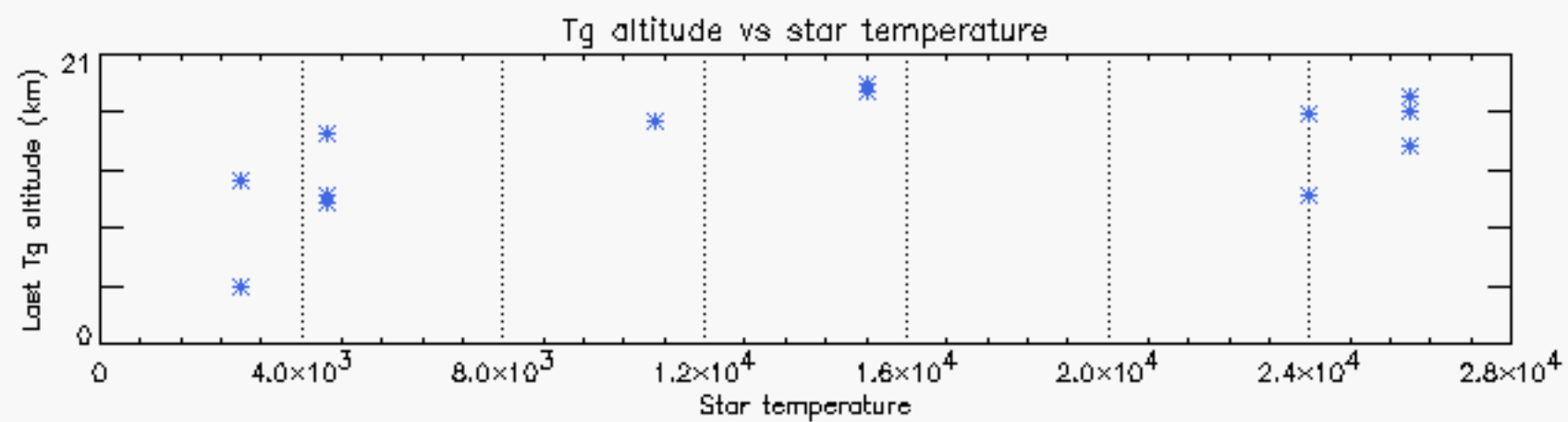
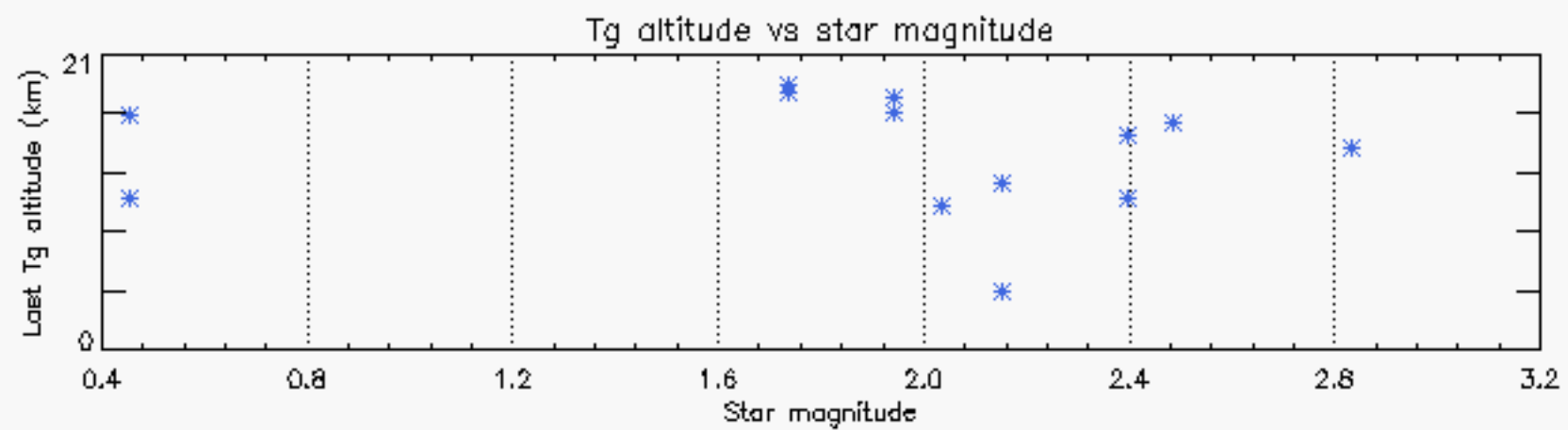
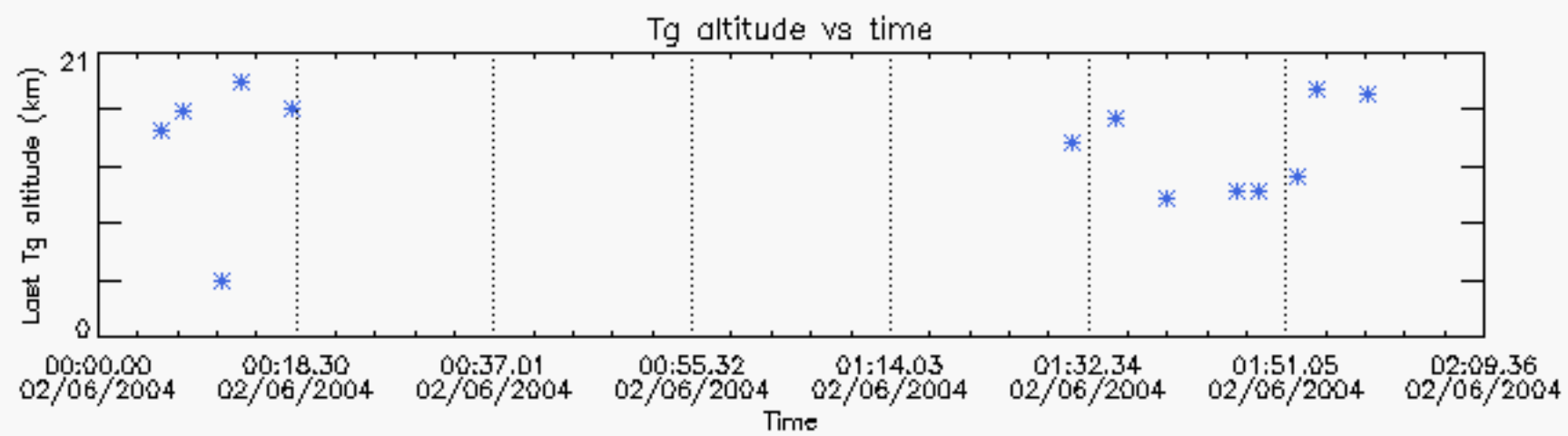
Percentage of star falling outside central band per profile



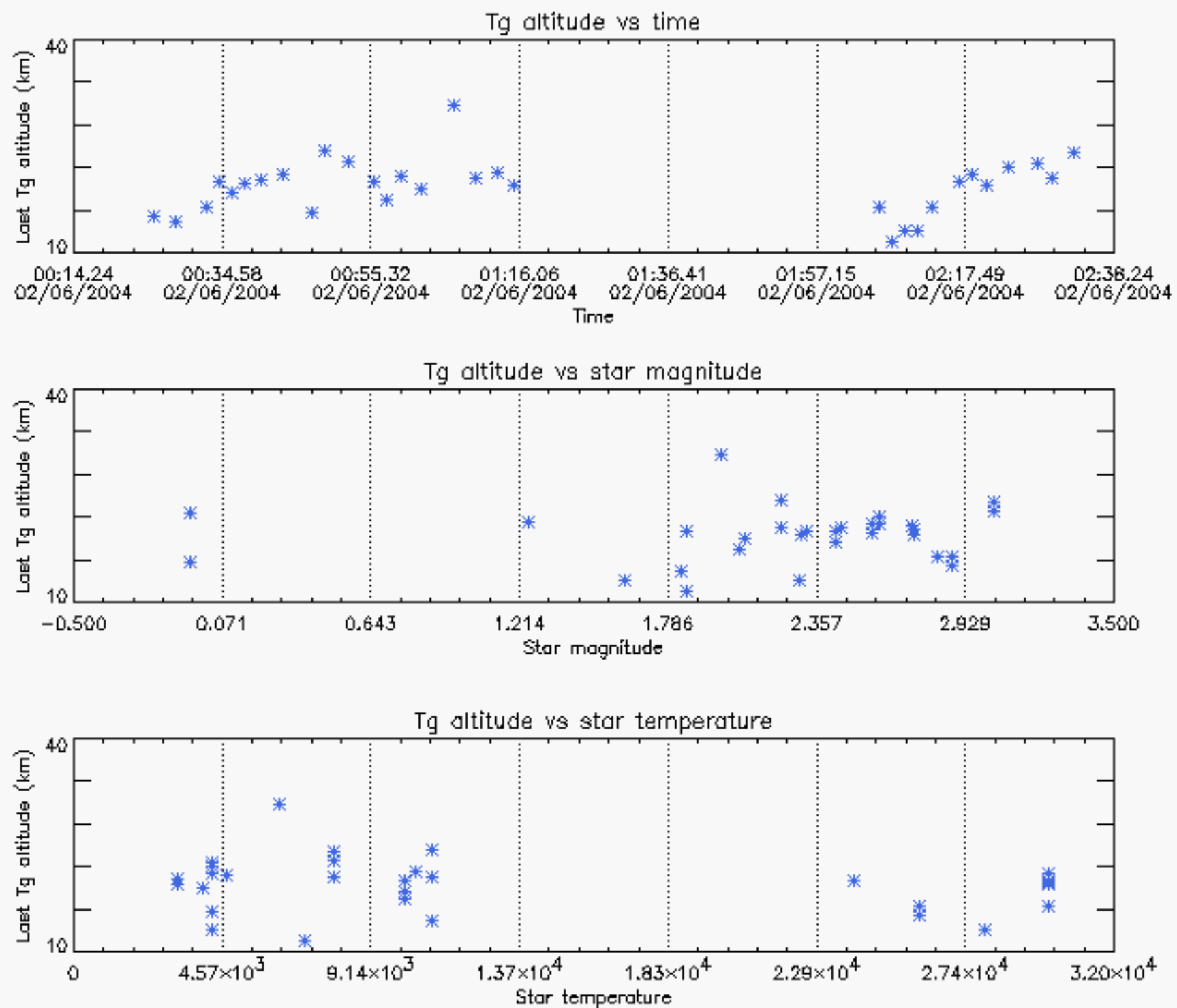
Percentage of saturation errors per profile



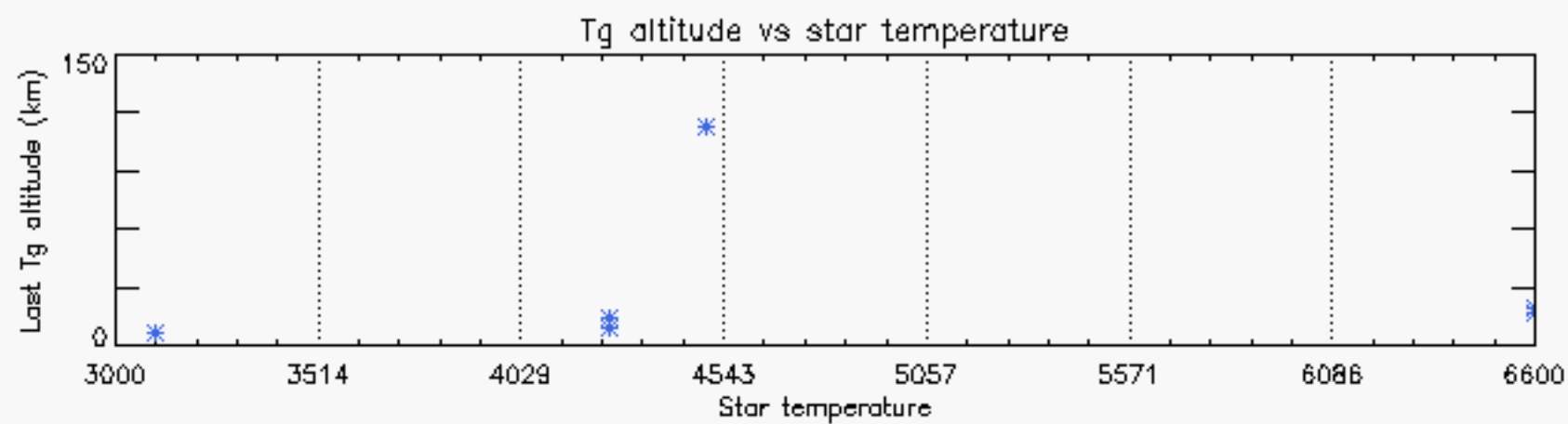
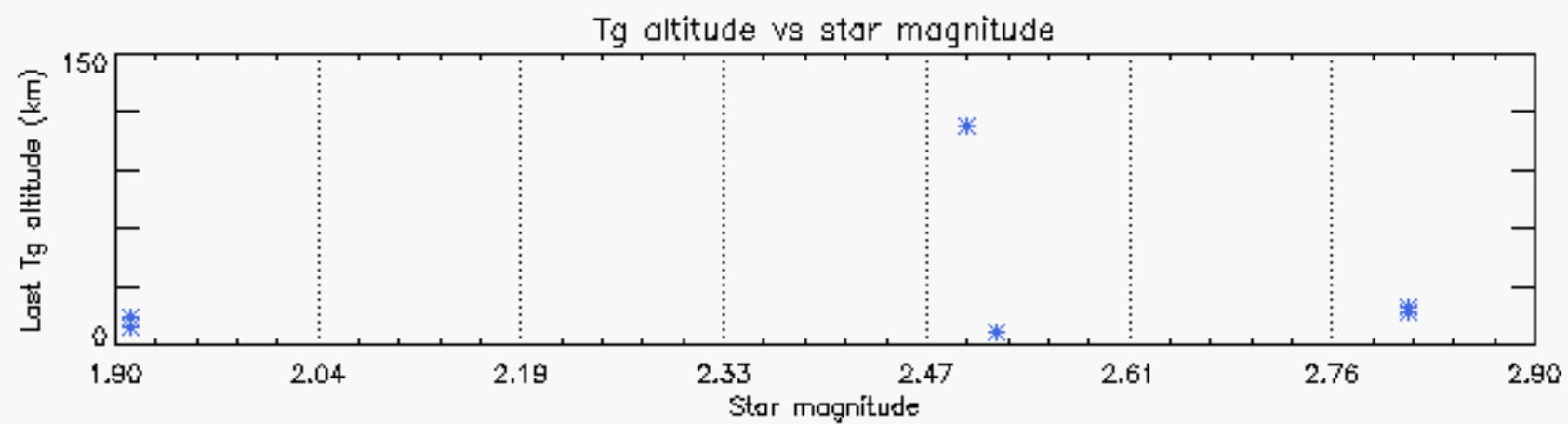
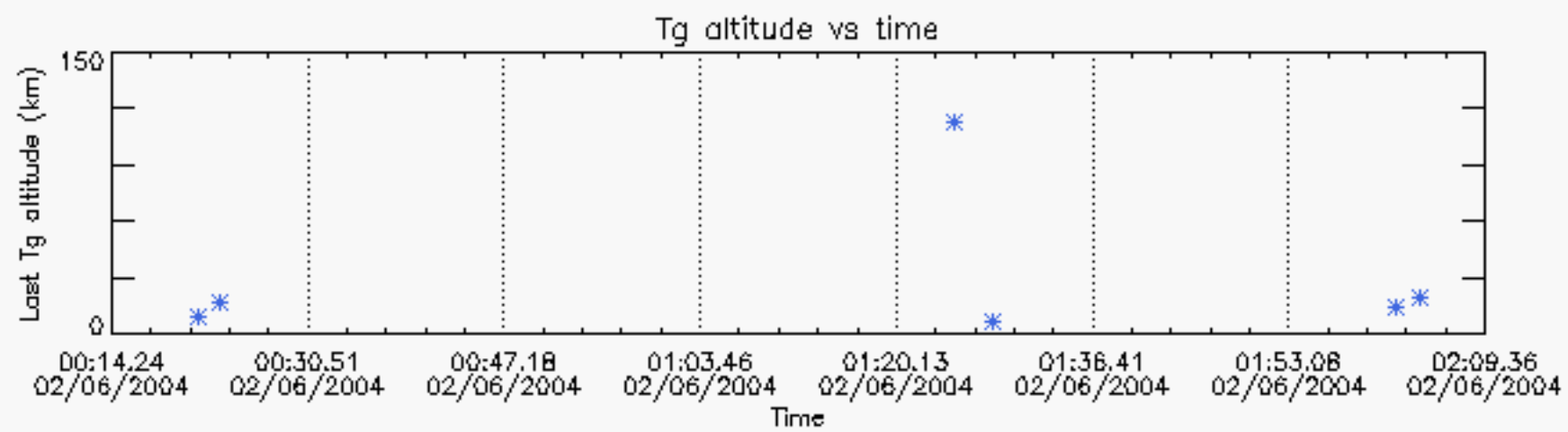
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040601_060933_000061532027_00206_11783_0854.N1

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 2;-4334.4; 01-JUN-2004 06:10:49; Bright; 42.5; 98; 13Zet Oph ; 2.57; 30000;occ; 85; 0;11783
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7;	-1118.6;	19-JUN-2004	02:37:06;	Dark	;	40.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	81;	0;	12038
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27; 949.4; 21-JUN-2004 08:50:44; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;12071
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33; 1624.7; 21-JUN-2004 09:01:59; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;12071
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8;	-3196.0;	21-JUN-2004	09:22:14;	Bright;	38.5;	130;	23Bet Dra	;	2.80;	5800;occ;	77;	0;	12071
9;	-3081.4;	21-JUN-2004	09:24:09;	Bright;	35.5;	119;	14Eta Dra	;	2.73;	4700;occ;	71;	0;	12071
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23;	339.7;	21-JUN-2004	10:21:10;	Dark	;	18;	24Alp PsA	;	1.17;	9700;occ;	144;	0;	12072
24;	479.4;	21-JUN-2004	10:23:30;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	96;	0;	12072
25;	676.5;	21-JUN-2004	10:26:47;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	81;	0;	12072
26;	949.9;	21-JUN-2004	10:31:20;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	79;	0;	12072
27;	1034.4;	21-JUN-2004	10:32:45;	Dark	;	147;	Alp Ara	;	2.88;	26000;occ;	76;	0;	12072
28;	1140.6;	21-JUN-2004	10:34:31;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	79;	0;	12072
29;	1241.9;	21-JUN-2004	10:36:12;	Dark	;	25;	35Lam Sco	;	1.62;	28000;occ;	83;	0;	12072
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31;	1453.7;	21-JUN-2004	10:39:44;	Bright;	49.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	98;	0;	12072
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22;	-22.7;	21-JUN-2004	11:55:44;	Dark	;	9;	Alp Eri	;	0.45;	24000;occ;	79;	0;	12072
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25;	676.9;	21-JUN-2004	12:07:23;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	83;	0;	12073
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