

GOMOS Daily Report 12-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	15JUN2004 04:06:39
Data source version	GOMOS/4.02
Start time of products	12-JUN-2004 (12JUN2004 00:00:00)
Stop time of products	13-JUN-2004 (13JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	2

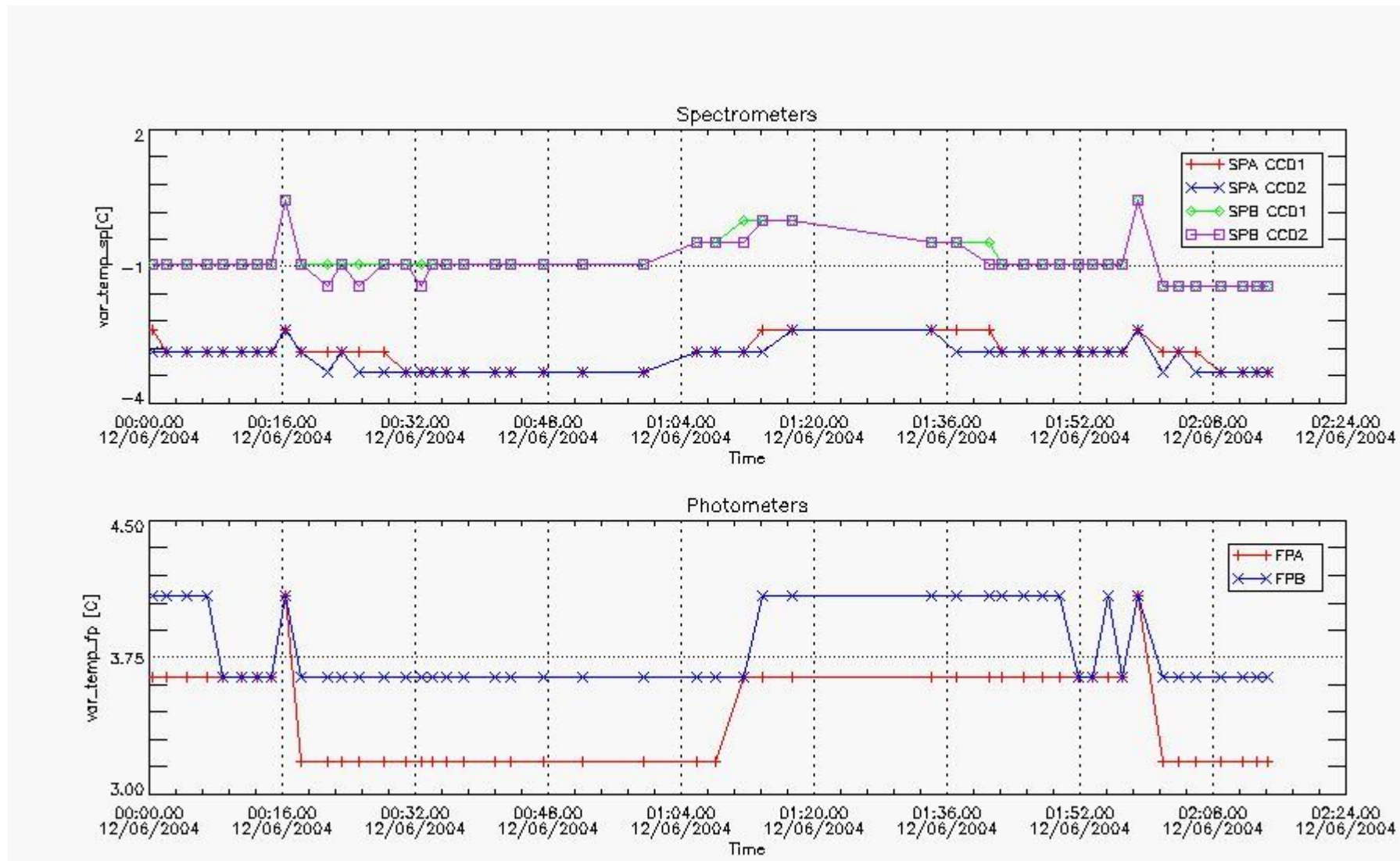
2. Summary of products arrived in PCF

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_1PNPDE20040612_000024_000000522027_00360_11937_0024.N1	12-JUN-2004 00:00:24	Dark	51.500	31	Alp Gru	1.7340	15200.	103	11937	No
GOM_TRA_1PNPDE20040612_000201_000000582027_00360_11937_0025.N1	12-JUN-2004 00:02:01	Dark	58.000	172	Gam Gru	3.0030	13100.	116	11937	No
GOM_TRA_1PNPDE20040612_000433_000000462027_00360_11937_0026.N1	12-JUN-2004 00:04:33	Dark	45.500	45	Alp Pav	1.9400	26000.	91	11937	No
GOM_TRA_1PNPDE20040612_000658_000000412027_00360_11937_0027.N1	12-JUN-2004 00:06:58	Twilight	41.000	43	Alp TrA	1.9100	4250.0	82	11937	No
GOM_TRA_1PNPDE20040612_000854_000000402027_00360_11937_0028.N1	12-JUN-2004 00:08:54	Bright	40.000	134	Bet TrA	2.8100	6600.0	80	11937	No
GOM_TRA_1PNPDE20040612_001111_000000462027_00360_11937_0029.N1	12-JUN-2004 00:11:11	Bright	45.500	147	Alp Ara	2.8770	26000.	91	11937	No
GOM_TRA_1PNPDE20040612_001258_000000472027_00360_11937_0030.N1	12-JUN-2004 00:12:58	Bright	46.500	40	The Sco	1.8590	7100.0	93	11937	No
GOM_TRA_1PNPDE20040612_001442_000000442027_00360_11937_0031.N1	12-JUN-2004 00:14:42	Bright	44.000	25	35Lam Sco	1.6200	28000.	88	11937	No
GOM_TRA_1PNPDE20040612_001623_000000672027_00360_11937_0000.N1	12-JUN-2004 00:16:23	Bright	66.500	57	34Sig Sgr	2.0660	26000.	133	11937	Yes
GOM_TRA_1PNPDE20040612_001815_000000602027_00360_11937_0001.N1	12-JUN-2004 00:18:15	Bright	60.000	155	41Pi Sgr	2.9000	6600.0	120	11937	No
GOM_TRA_1PNPDE20040612_002124_000000462027_00360_11937_0002.N1	12-JUN-2004 00:21:24	Bright	45.500	86	35Eta Oph	2.4300	10200.	91	11937	No
GOM_TRA_1PNPDE20040612_002311_000000412027_00360_11937_0003.N1	12-JUN-2004 00:23:11	Bright	40.500	98	13Zet Oph	2.5710	30000.	81	11937	No
GOM_TRA_1PNPDE20040612_002517_000000392027_00360_11937_0004.N1	12-JUN-2004 00:25:17	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	11937	No
GOM_TRA_1PNPDE20040612_002819_000000382027_00360_11937_0005.N1	12-JUN-2004 00:28:19	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	11937	No
GOM_TRA_1PNPDE20040612_003054_000000492027_00360_11937_0006.N1	12-JUN-2004 00:30:54	Bright	48.500	59	55Alp Oph	2.0800	8900.0	97	11937	No
GOM_TRA_1PNPDE20040612_003241_000000412027_00360_11937_0007.N1	12-JUN-2004 00:32:41	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	11937	No
GOM_TRA_1PNPDE20040612_003403_000000392027_00360_11937_0008.N1	12-JUN-2004 00:34:03	Bright	38.500	67	5Alp CrB	2.2210	11000.	77	11937	No
GOM_TRA_1PNPDE20040612_003549_000000392027_00360_11937_0009.N1	12-JUN-2004 00:35:49	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	11937	No
GOM_TRA_1PNPDE20040612_003748_000000382027_00360_11937_0010.N1	12-JUN-2004 00:37:48	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	11937	No
GOM_TRA_1PNPDE20040612_004130_000000402027_00360_11937_0011.N1	12-JUN-2004 00:41:30	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	11937	No
GOM_TRA_1PNPDE20040612_004324_000000392027_00360_11937_0012.N1	12-JUN-2004 00:43:24	Bright	38.500	55	79Zet UMa	2.0600	10200.	77	11937	No
GOM_TRA_1PNPDE20040612_004725_000000402027_00360_11937_0013.N1	12-JUN-2004 00:47:25	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	11937	No
GOM_TRA_1PNPDE20040612_005205_000000372027_00360_11937_0014.N1	12-JUN-2004 00:52:05	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	11937	No
GOM_TRA_1PNPDE20040612_005932_000002552027_00360_11937_0015.N1	12-JUN-2004 00:59:32	Bright	255.00	92	53Eps Cyg	2.5000	4500.0	510	11937	No
GOM_TRA_1PNPDE20040612_010547_000000432027_00360_11937_0016.N1	12-JUN-2004 01:05:47	Twilight	42.500	73	57Gam1And	2.2600	13100.	85	11937	No
GOM_TRA_1PNPDE20040612_010807_000000612027_00360_11937_0017.N1	12-JUN-2004 01:08:07	Twilight	60.500	53	43Bet And	2.0480	3300.0	121	11937	No
GOM_TRA_1PNPDE20040612_011128_000000492027_00360_11937_0018.N1	12-JUN-2004 01:11:28	Twilight	49.000	50	13Alp Ari	2.0070	4250.0	98	11937	No
GOM_TRA_1PNPDE20040612_011347_000001512027_00360_11937_0019.N1	12-JUN-2004 01:13:47	Dark	151.00	93	53Bet Peg	2.5200	3100.0	302	11937	No
GOM_TRA_1PNPDE20040612_011720_000000682027_00360_11937_0020.N1	12-JUN-2004 01:17:20	Dark	67.500	140	88Gam Peg	2.8340	26000.	135	11937	No
GOM_TRA_1PNPDE20040612_013403_000000452027_00360_11937_0021.N1	12-JUN-2004 01:34:03	Dark	44.500	9	Alp Eri	0.45300	24000.	89	11937	No
GOM_TRA_1PNPDE20040612_013705_000000652027_00361_11938_0022.N1	12-JUN-2004 01:37:05	Dark	65.000	18	24Alp PsA	1.1660	9700.0	130	11938	No
GOM_TRA_1PNPDE20040612_014101_000000492027_00361_11938_0023.N1	12-JUN-2004 01:41:01	Dark	49.000	31	Alp Gru	1.7340	15200.	98	11938	No
GOM_TRA_1PNPDE20040612_014239_000000592027_00361_11938_0024.N1	12-JUN-2004 01:42:39	Dark	58.500	172	Gam Gru	3.0030	13100.	117	11938	No
GOM_TRA_1PNPDE20040612_014509_000000442027_00361_11938_0025.N1	12-JUN-2004 01:45:09	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11938	No
GOM_TRA_1PNPDE20040612_014734_000000432027_00361_11938_0026.N1	12-JUN-2004 01:47:34	Twilight	42.500	43	Alp TrA	1.9100	4250.0	85	11938	No
GOM_TRA_1PNPDE20040612_014931_000000392027_00361_11938_0027.N1	12-JUN-2004 01:49:31	Bright	38.500	134	Bet TrA	2.8100	6600.0	77	11938	No
GOM_TRA_1PNPDE20040612_015147_000000442027_00361_11938_0028.N1	12-JUN-2004 01:51:47	Bright	43.500	147	Alp Ara	2.8770	26000.	87	11938	No
GOM_TRA_1PNPDE20040612_015333_000000502027_00361_11938_0029.N1	12-JUN-2004 01:53:33	Bright	49.500	40	The Sco	1.8590	7100.0	99	11938	No
GOM_TRA_1PNPDE20040612_015518_000000492027_00361_11938_0030.N1	12-JUN-2004 01:55:18	Bright	48.500	25	35Lam Sco	1.6200	28000.	97	11938	No
GOM_TRA_1PNPDE20040612_015659_000000642027_00361_11938_0031.N1	12-JUN-2004 01:56:59	Bright	63.500	57	34Sig Sgr	2.0660	26000.	127	11938	No
GOM_TRA_1PNPDE20040612_015852_000000632027_00361_11938_0000.N1	12-JUN-2004 01:58:52	Bright	63.000	155	41Pi Sgr	2.9000	6600.0	126	11938	Yes
GOM_TRA_1PNPDE20040612_020200_000000442027_00361_11938_0001.N1	12-JUN-2004 02:02:00	Bright	44.000	86	35Eta Oph	2.4300	10200.	88	11938	No
GOM_TRA_1PNPDE20040612_020347_000000412027_00361_11938_0002.N1	12-JUN-2004 02:03:47	Bright	40.500	98	13Zet Oph	2.5710	30000.	81	11938	No
GOM_TRA_1PNPDE20040612_020553_000000392027_00361_11938_0003.N1	12-JUN-2004 02:05:53	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	11938	No
GOM_TRA_1PNPDE20040612_020855_000000372027_00361_11938_0004.N1	12-JUN-2004 02:08:55	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	11938	No
GOM_TRA_1PNPDE20040612_021130_000000472027_00361_11938_0005.N1	12-JUN-2004 02:11:30	Bright	46.500	59	55Alp Oph	2.0800	8900.0	93	11938	No
GOM_TRA_1PNPDE20040612_021317_000000412027_00361_11938_0006.N1	12-JUN-2004 02:13:17	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	11938	No
GOM_TRA_1PNPDE20040612_021438_000000402027_00361_11938_0007.N1	12-JUN-2004 02:14:38	Bright	39.500	67	5Alp CrB	2.2210	11000.	79	11938	No

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



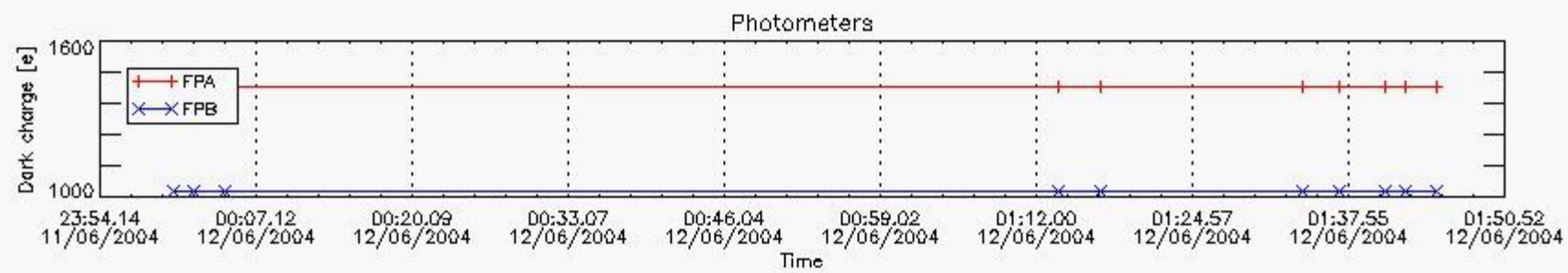
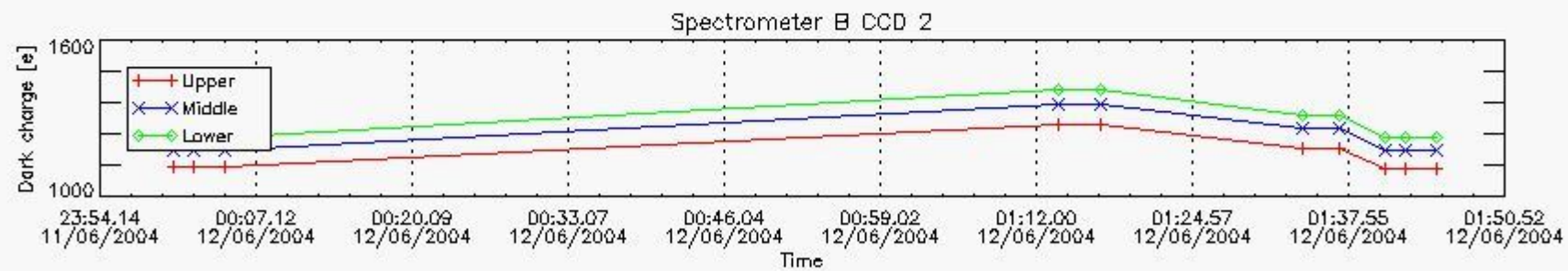
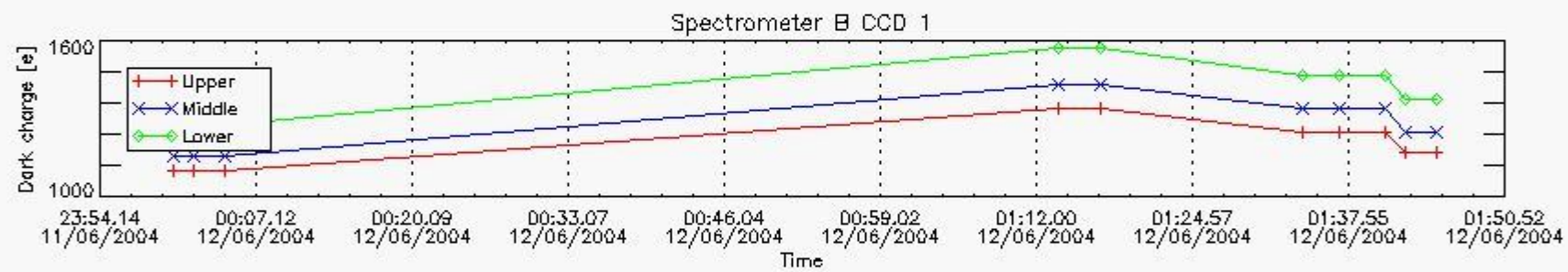
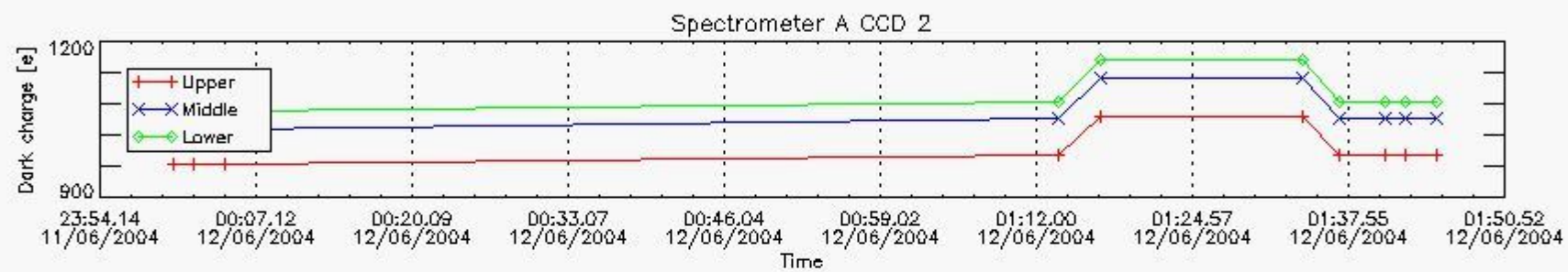
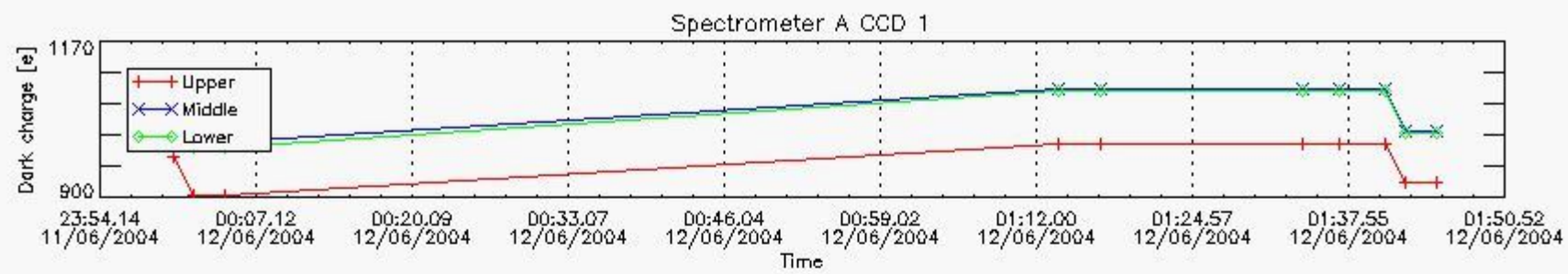
4. Overview of dark signal processing per product

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



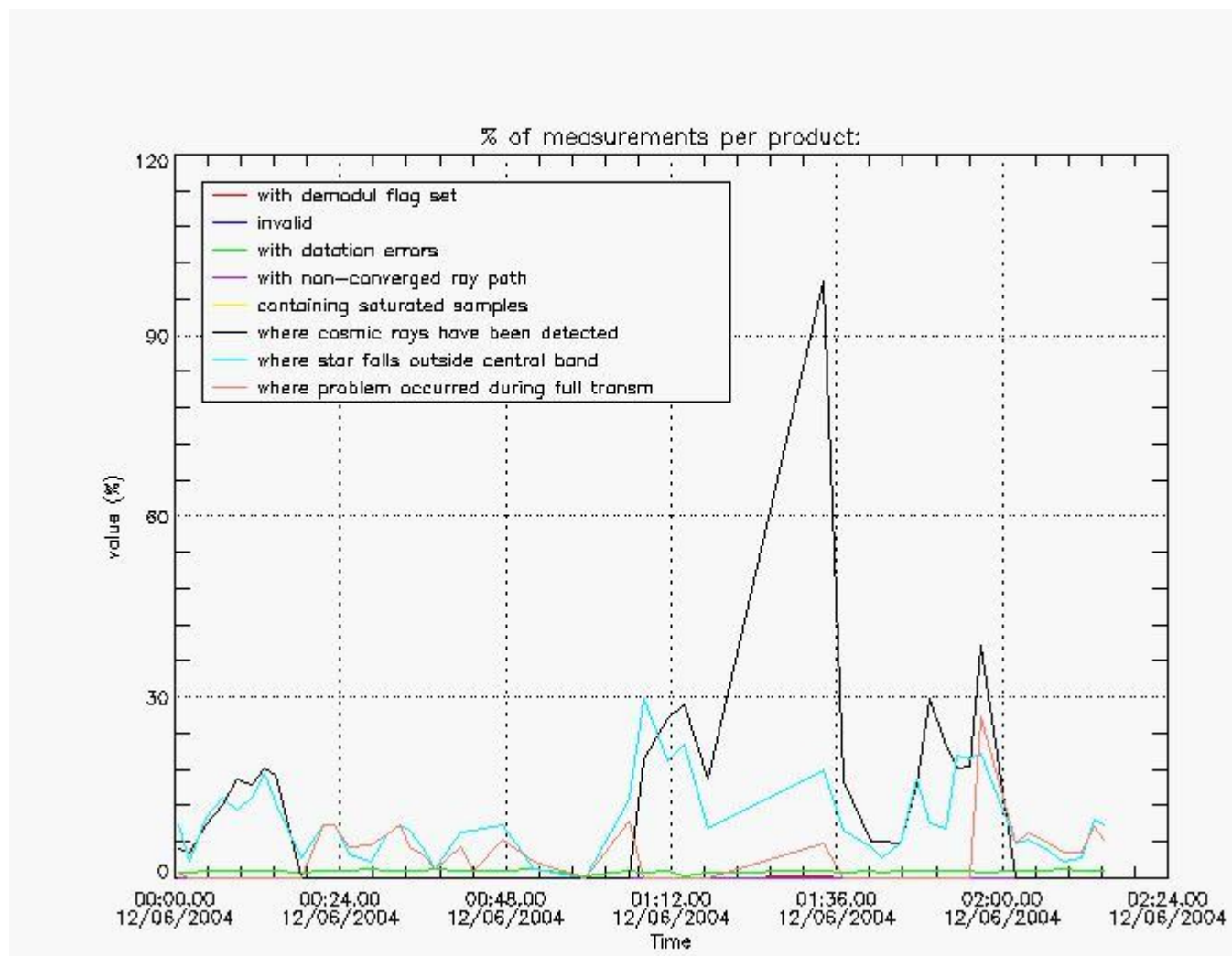
5. Demodulation flag and quality information monitoring

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.

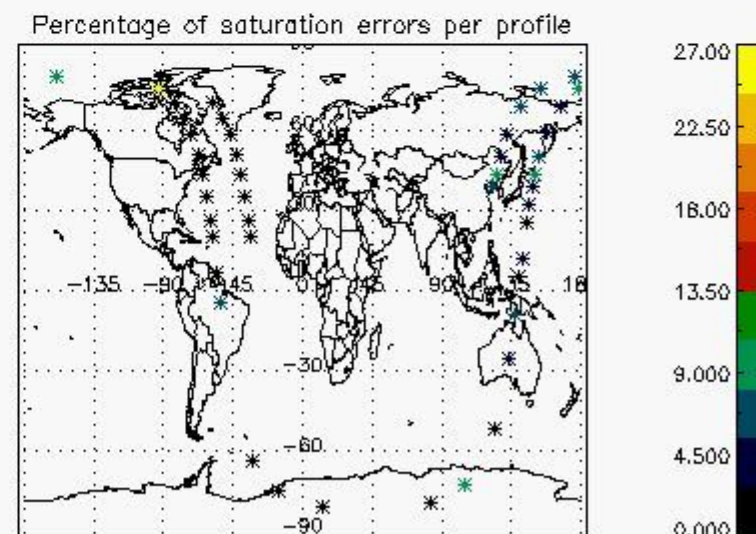
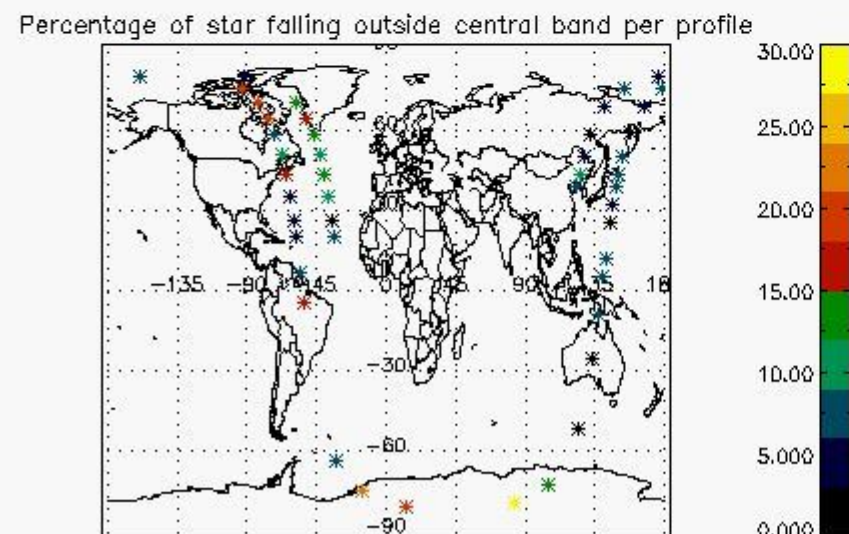
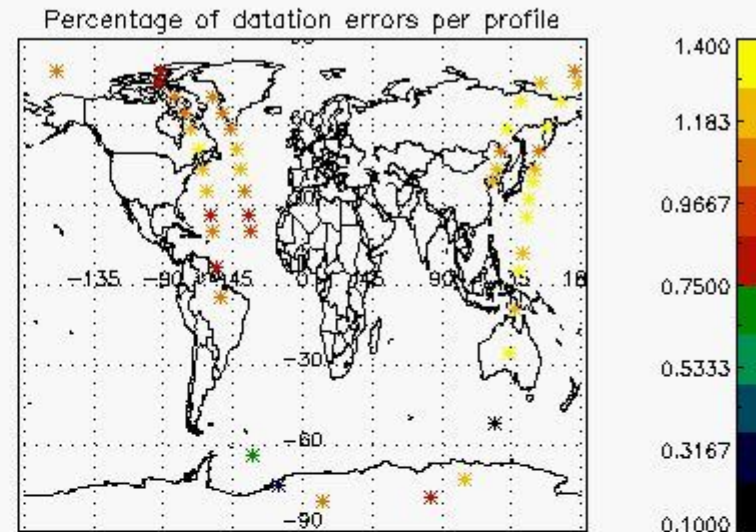
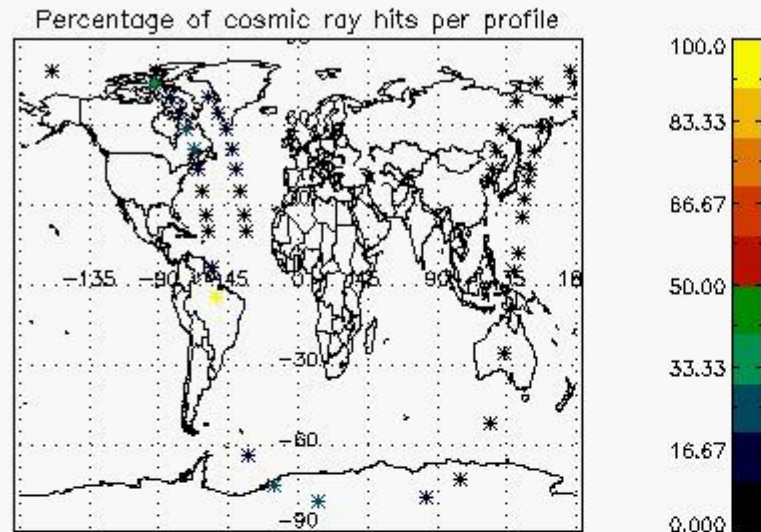
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	6.52174 %
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)



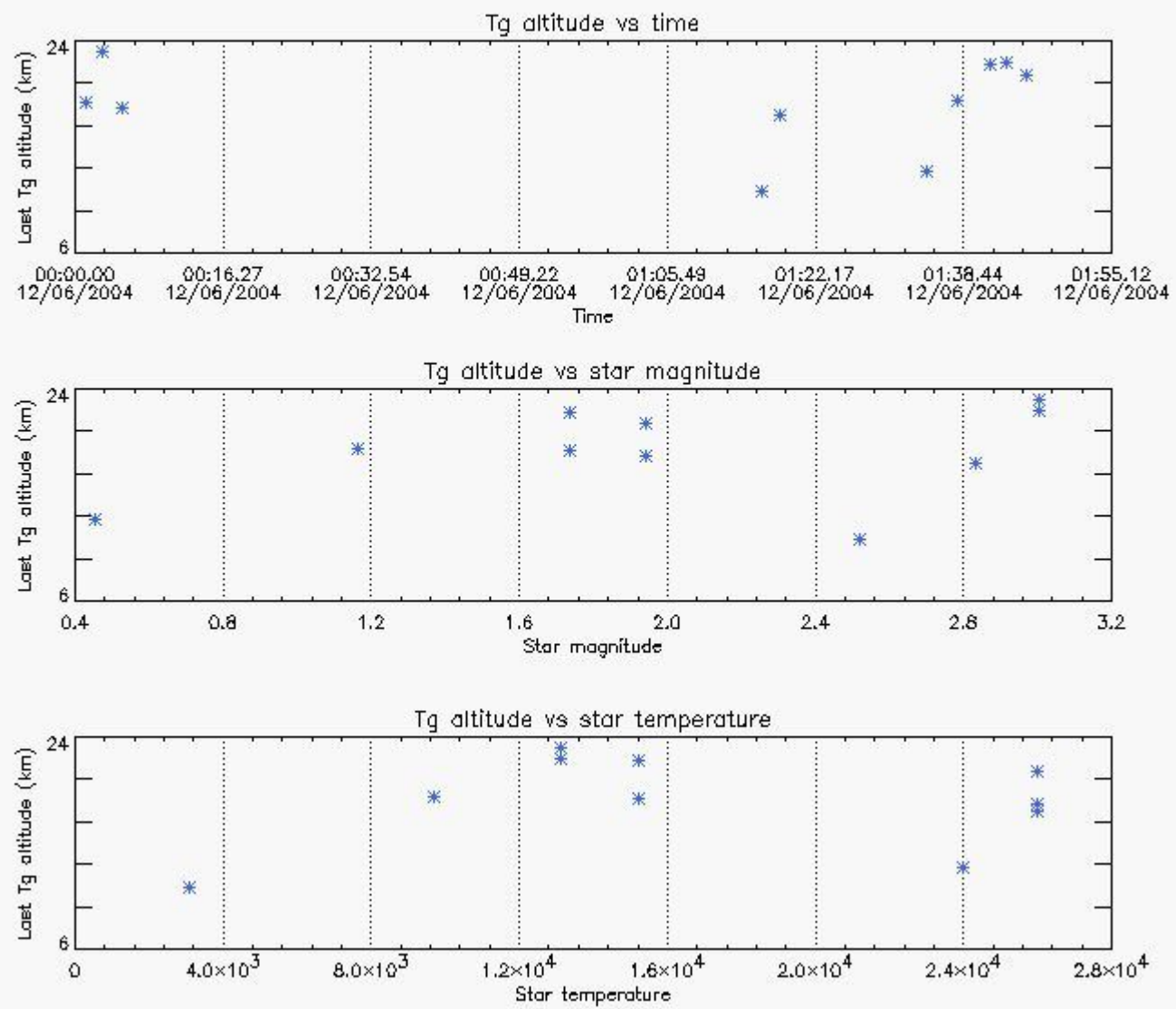
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.614	19.572	12.873
St. deviation:	3.9178	5.5864	3.8488
Maximum:	23.139	42.234	16.392
Minimum:	11.224	10.600	6.8154
Number of data:	10.000	31.000	5.0000

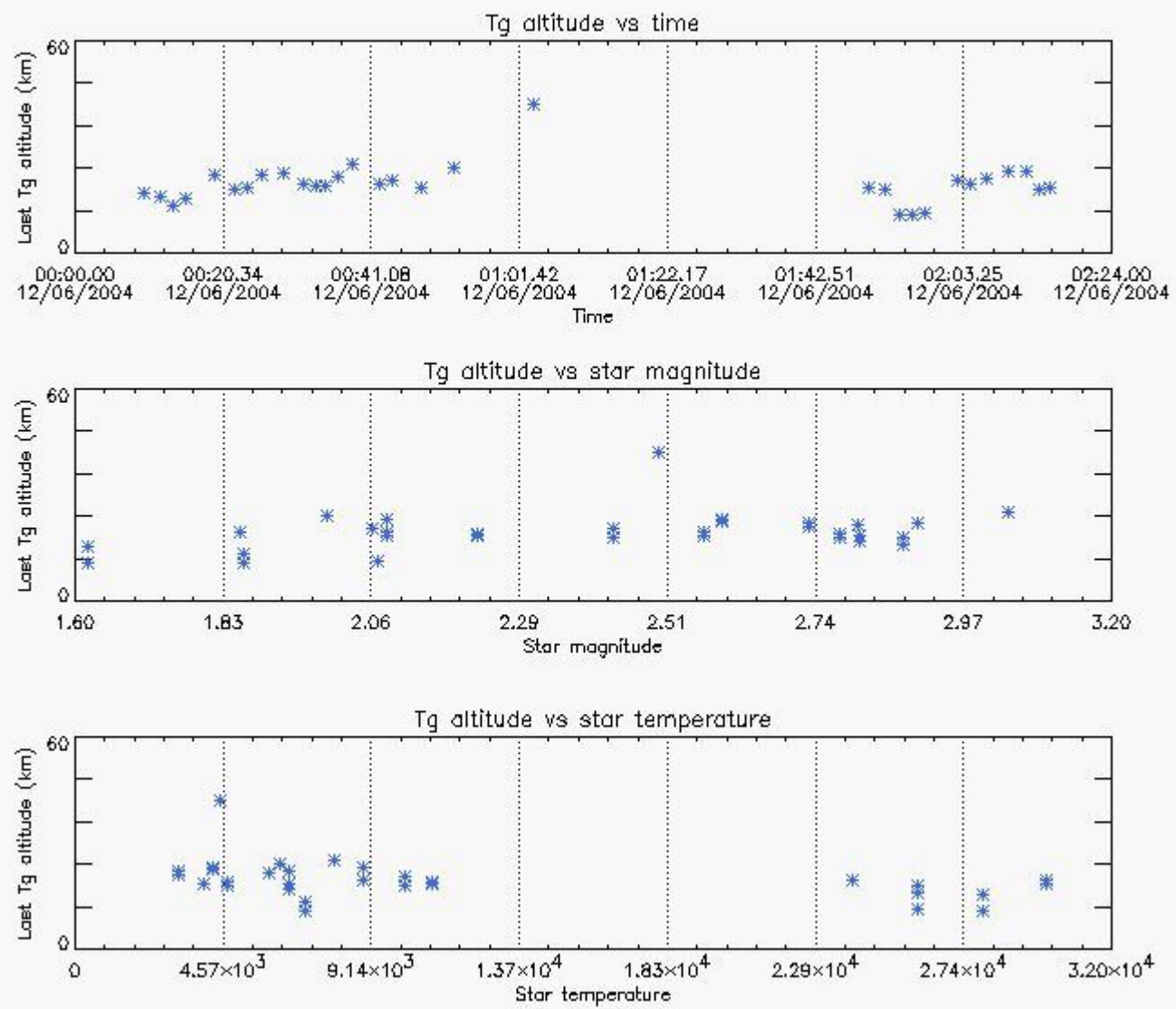
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



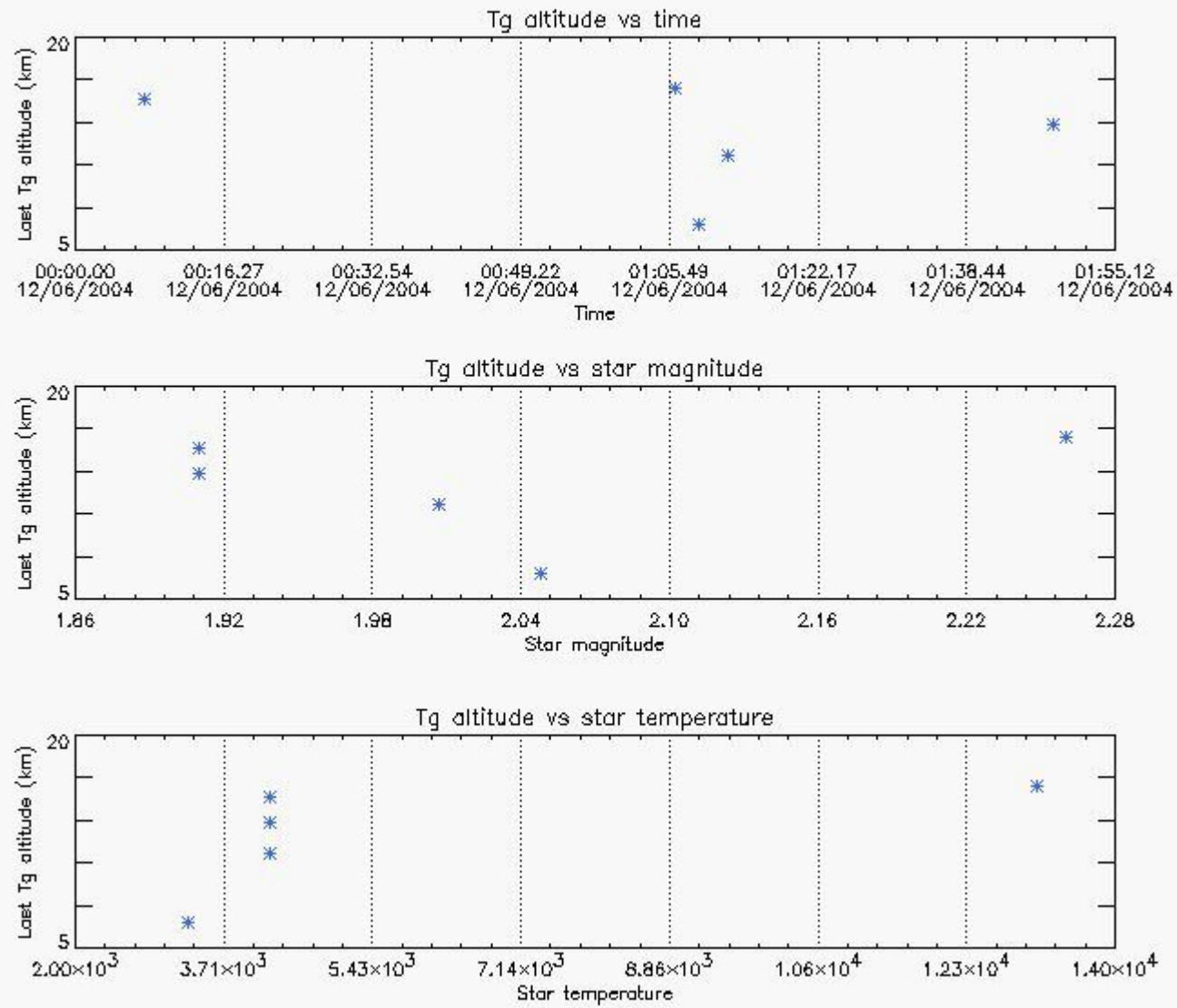
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

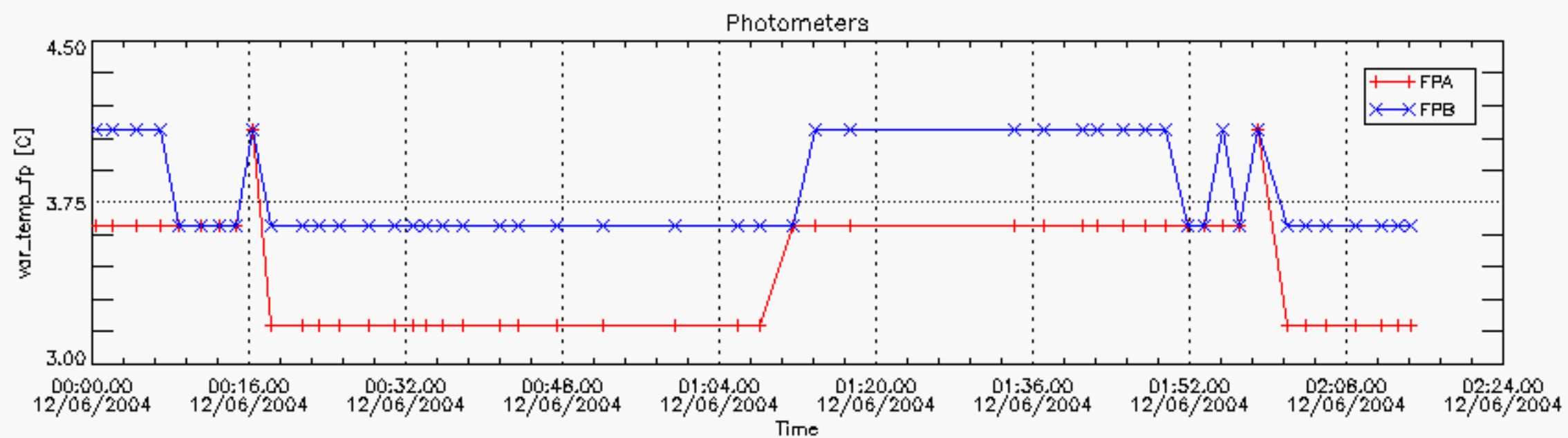
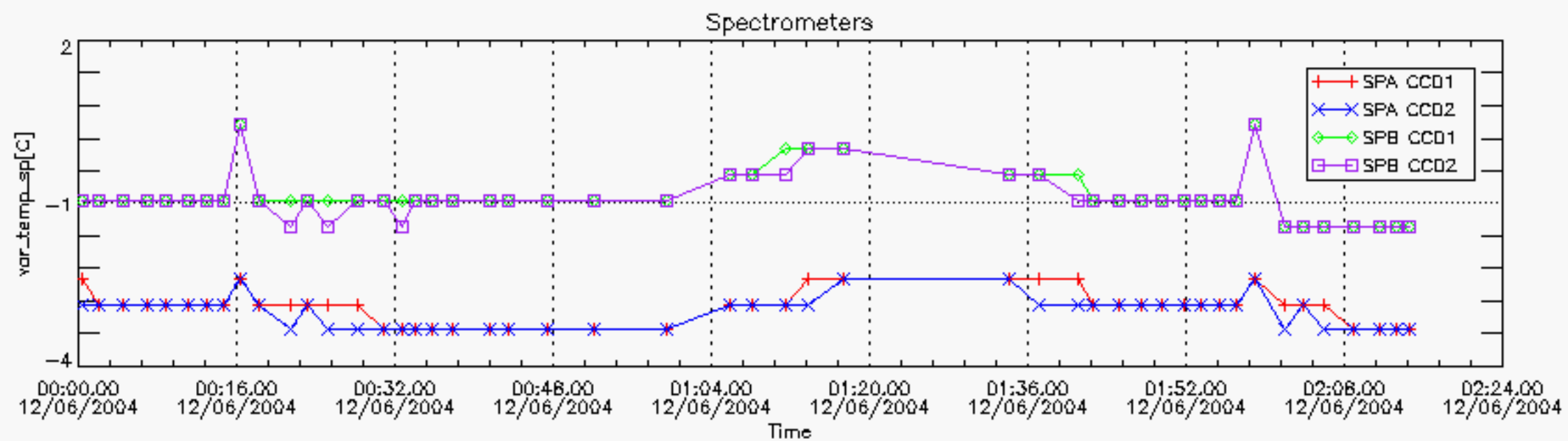
Tangent altitude at which the star is lost

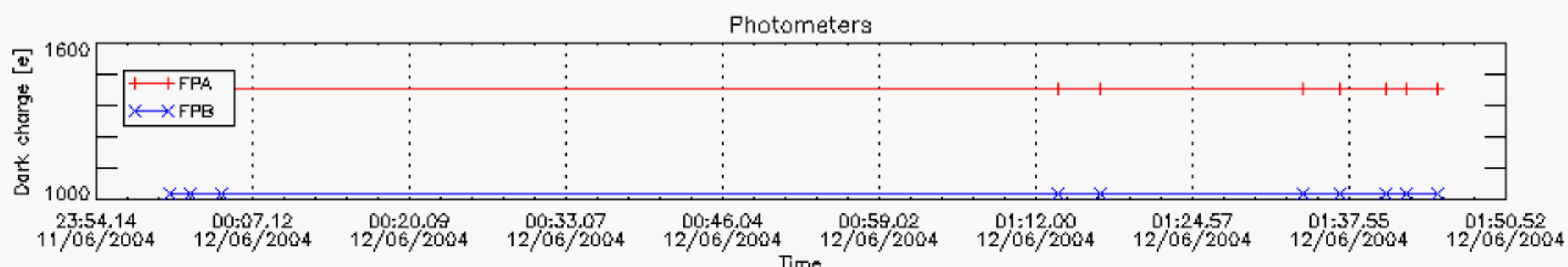
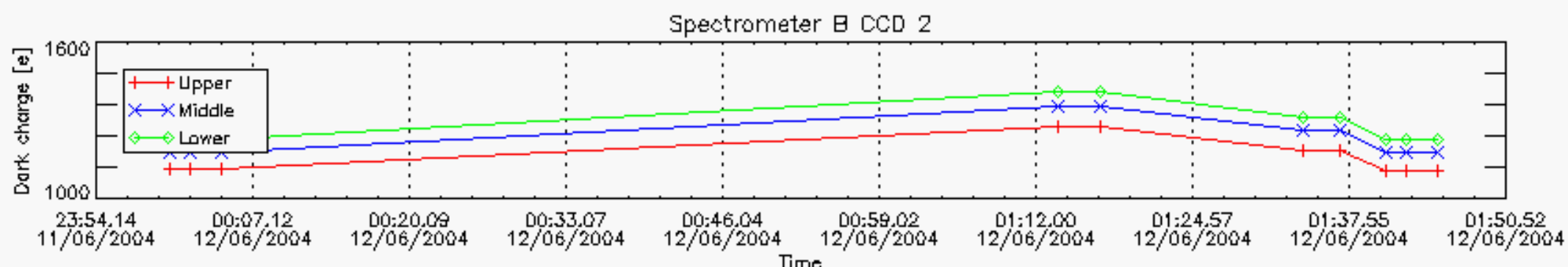
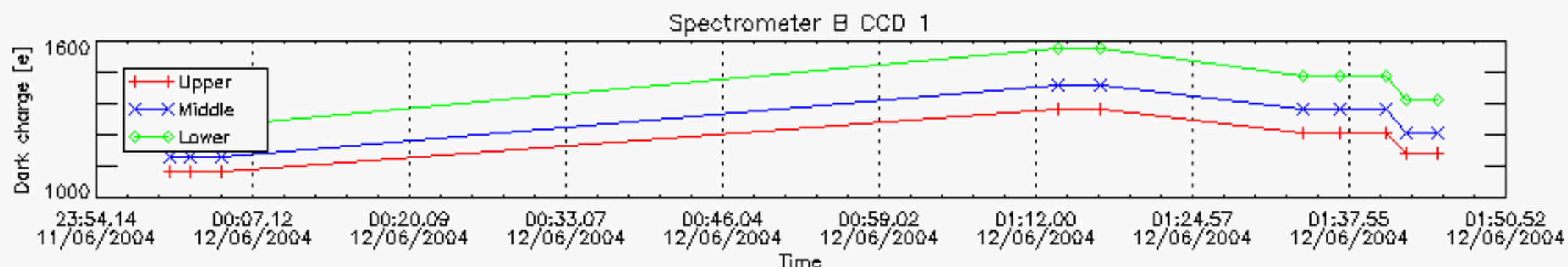
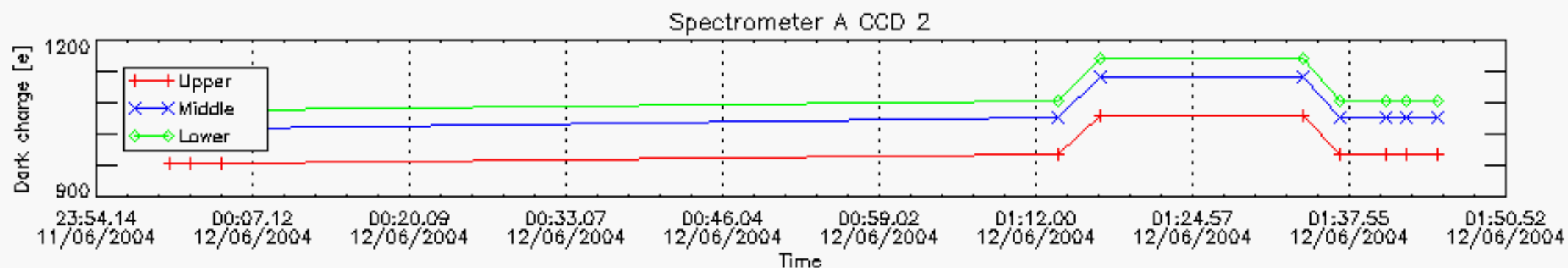
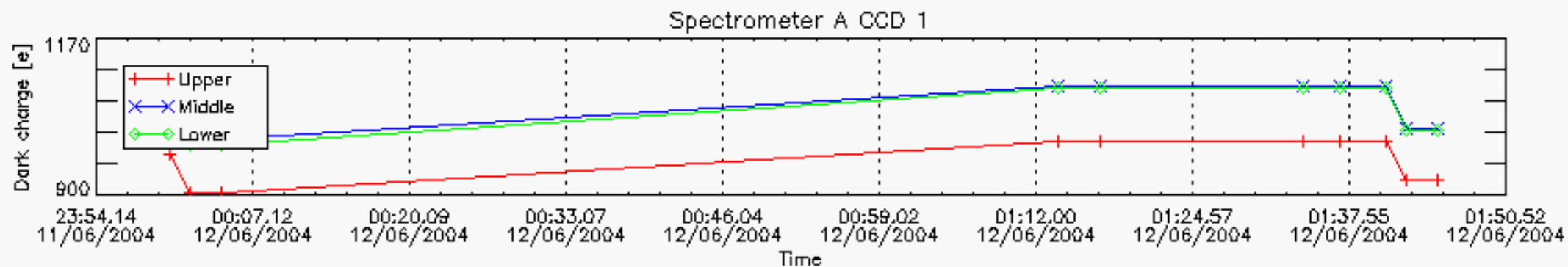


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

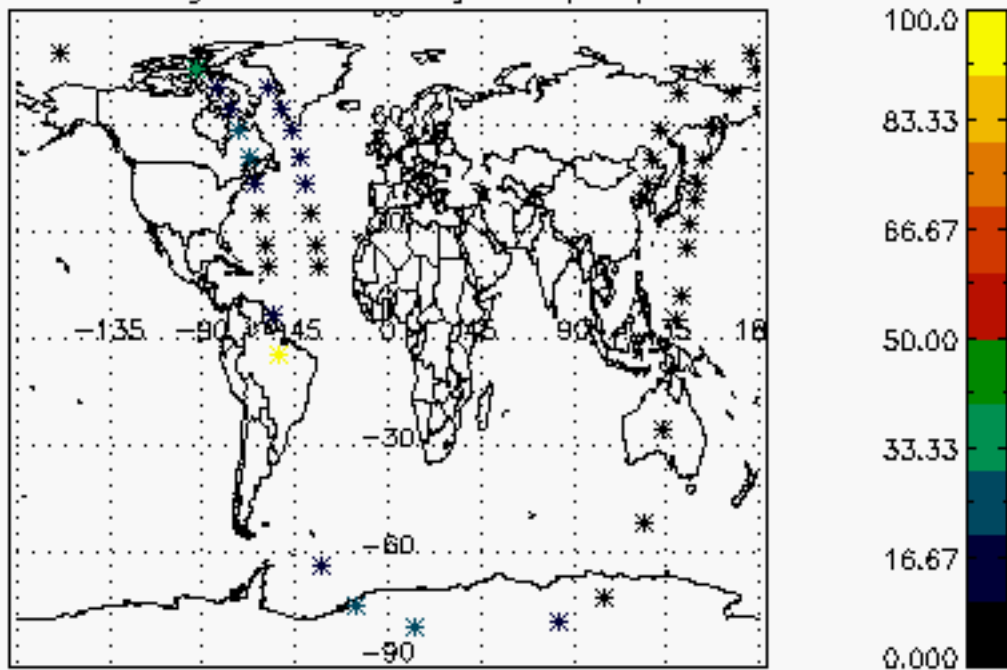
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1462.7	1448.8	1461.5	1447.4
St. deviation:	6.2913	8.0266	7.4927	8.4786
Maximum:	1502.0	1504.0	1512.0	1497.0
Minimum:	1442.0	1422.0	1434.0	1422.0
Number of data:	16400.	16400.	40000.	40000.

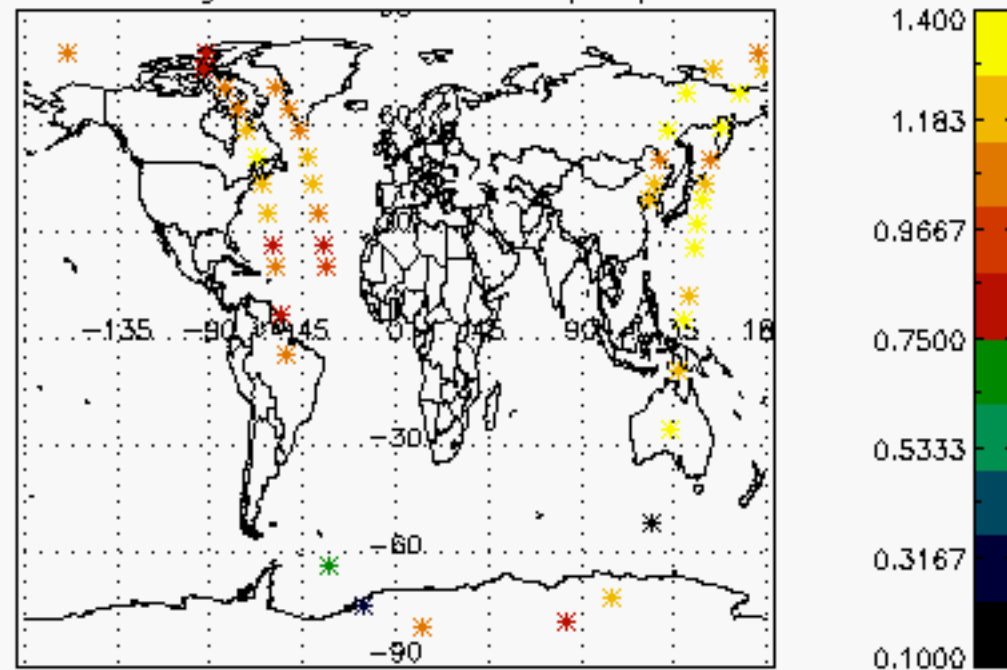




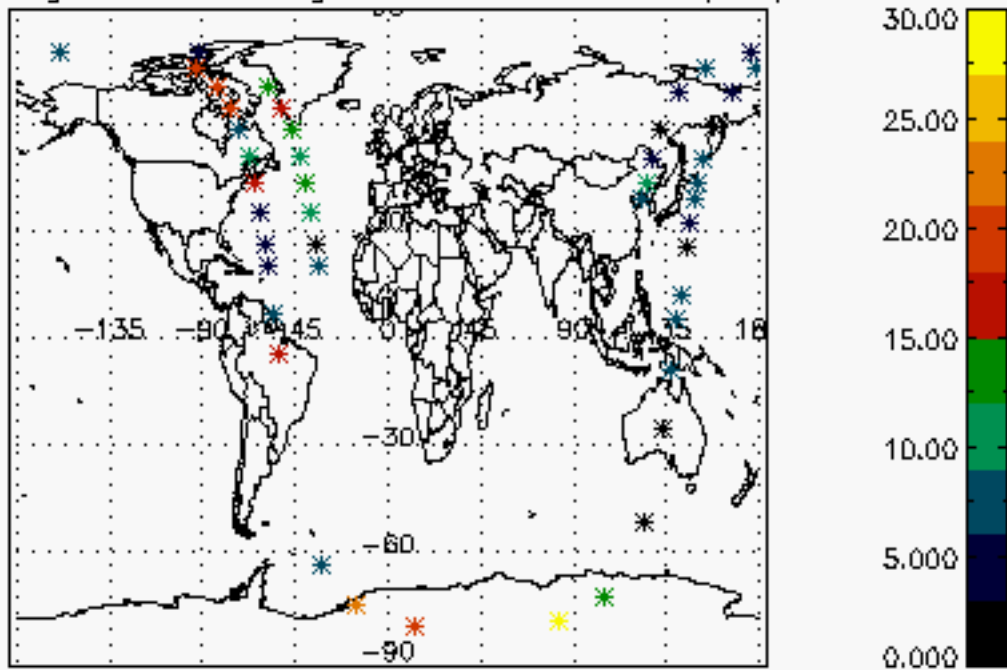
Percentage of cosmic ray hits per profile



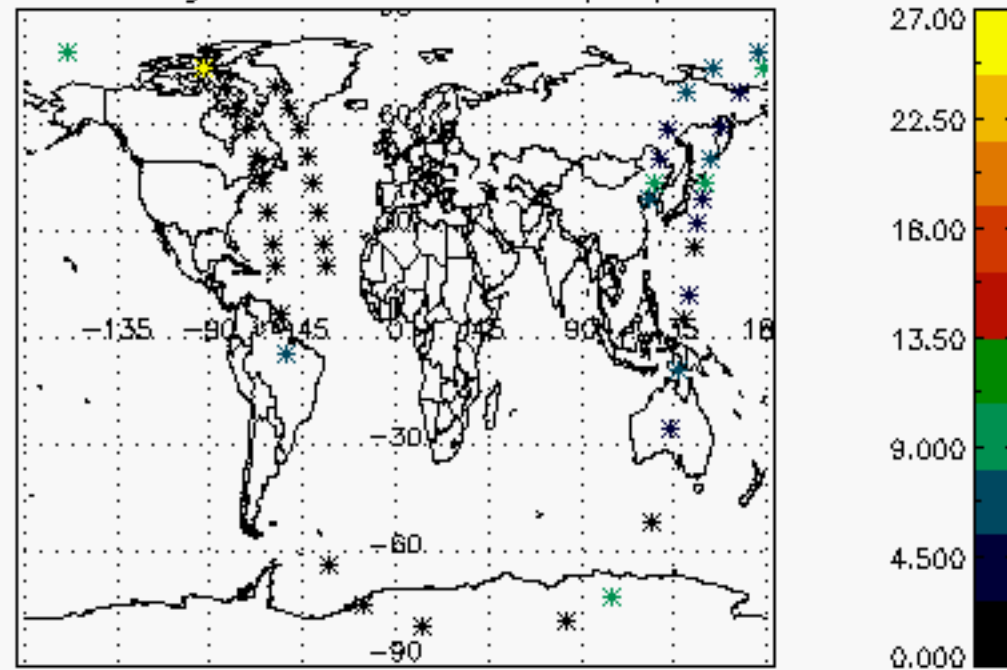
Percentage of datation errors per profile



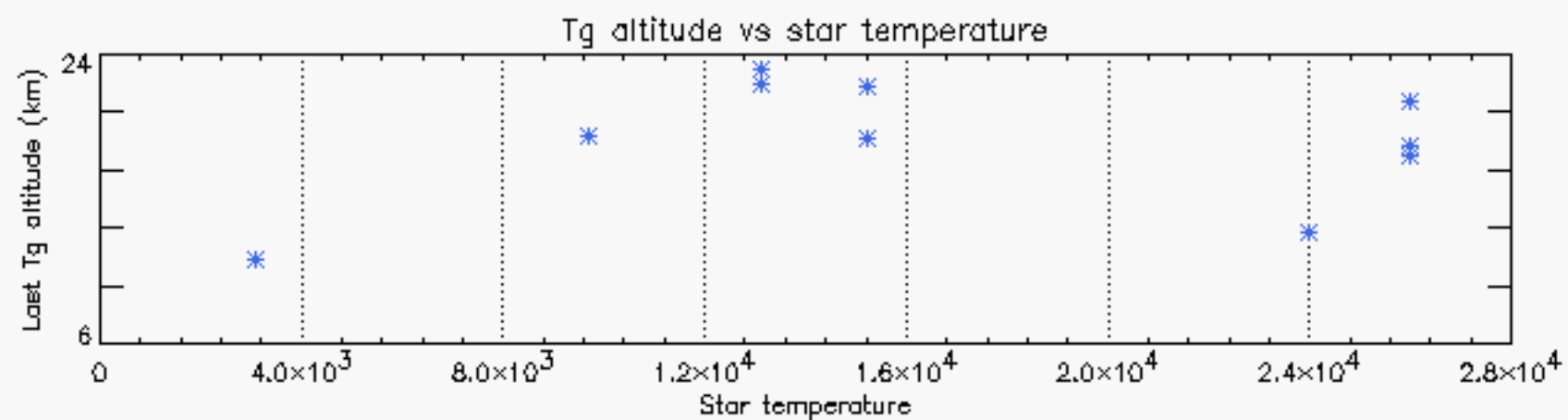
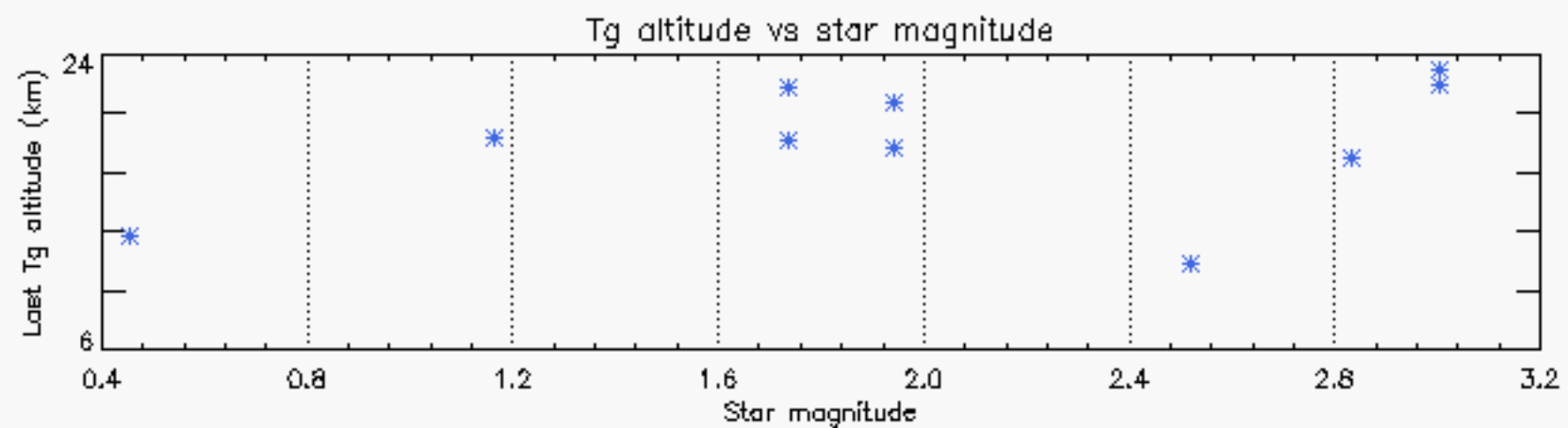
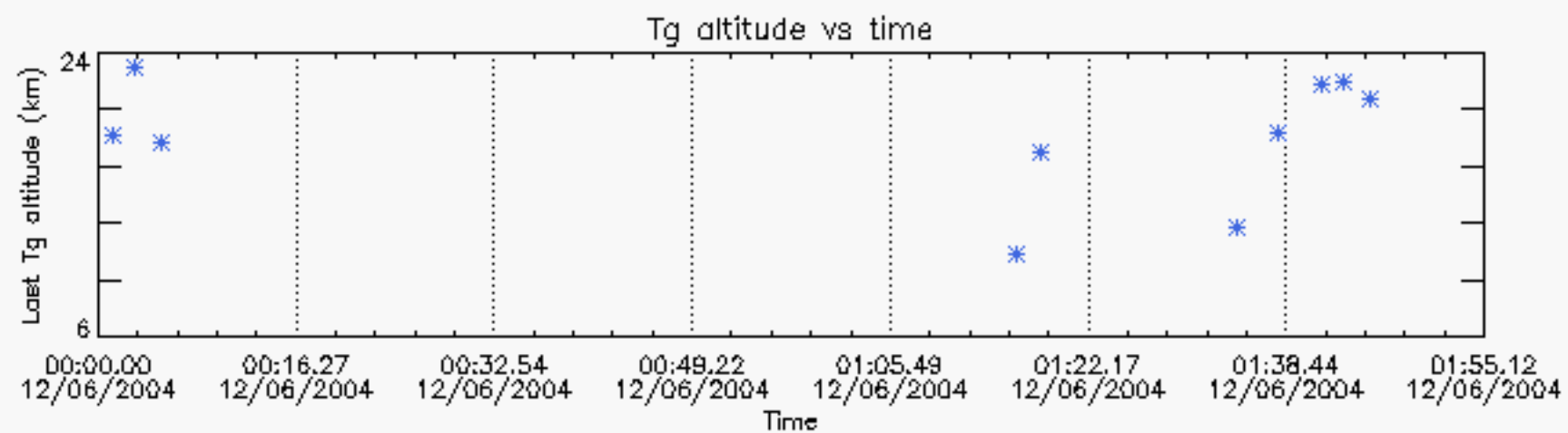
Percentage of star falling outside central band per profile



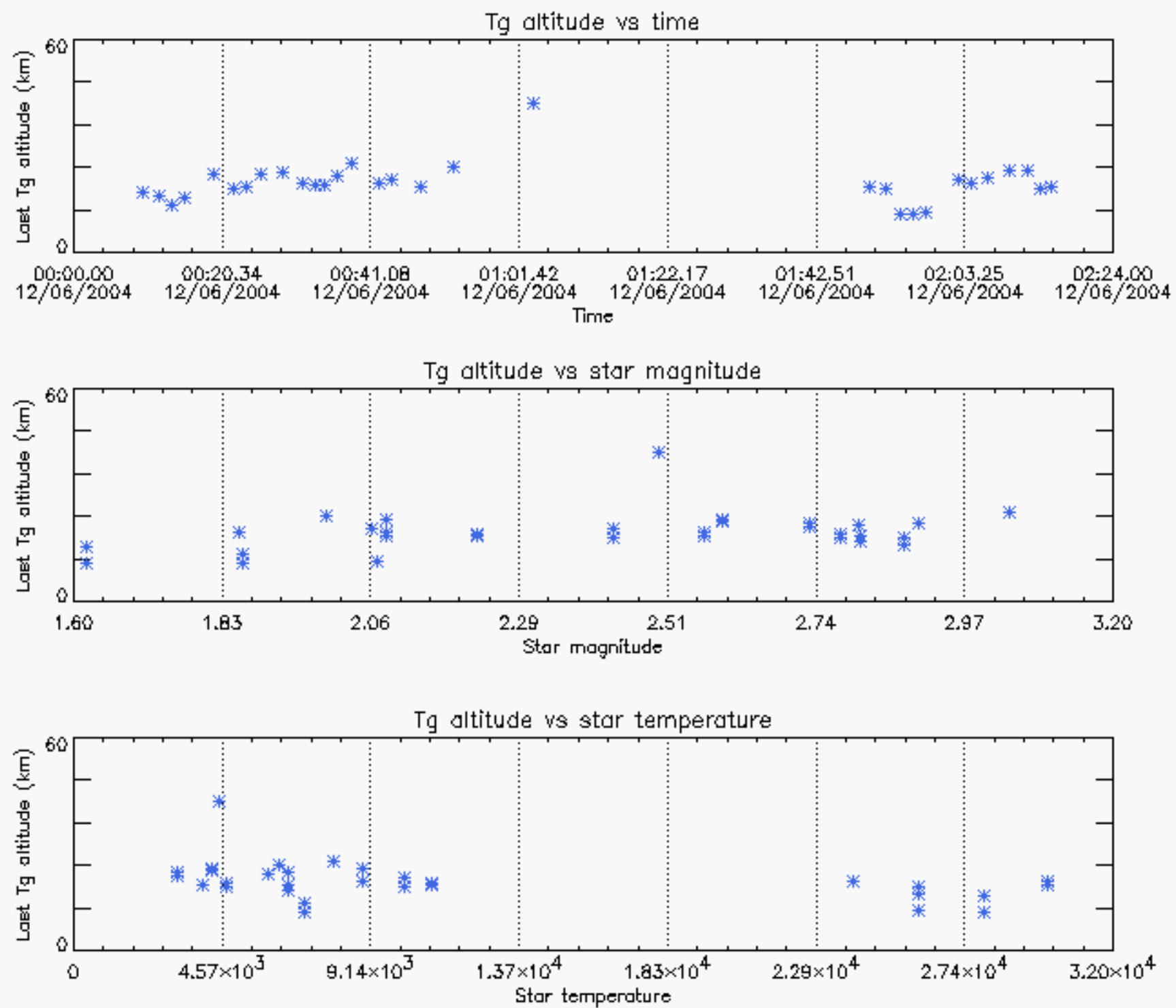
Percentage of saturation errors per profile



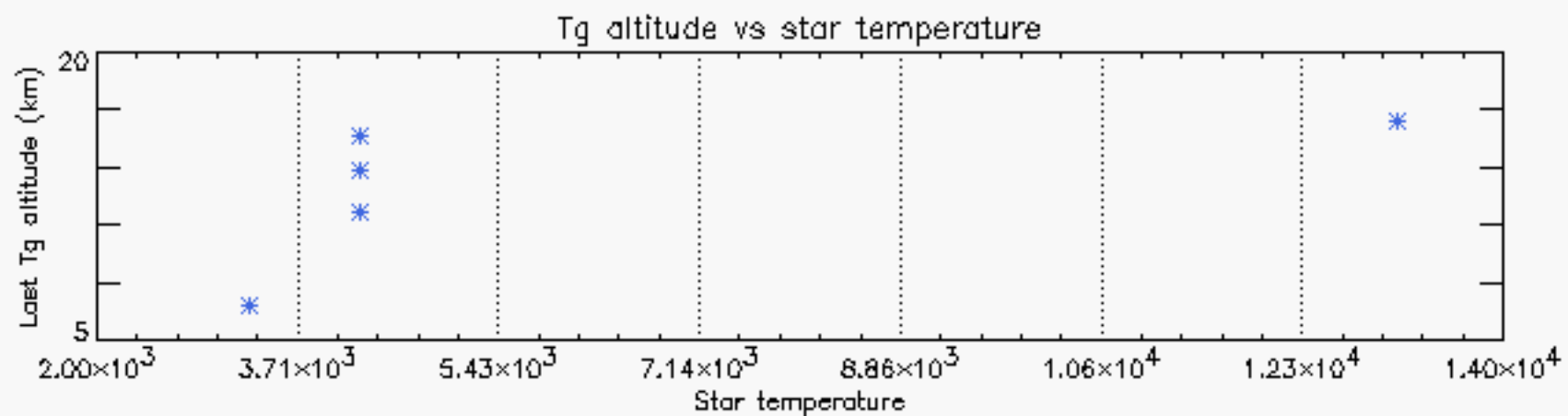
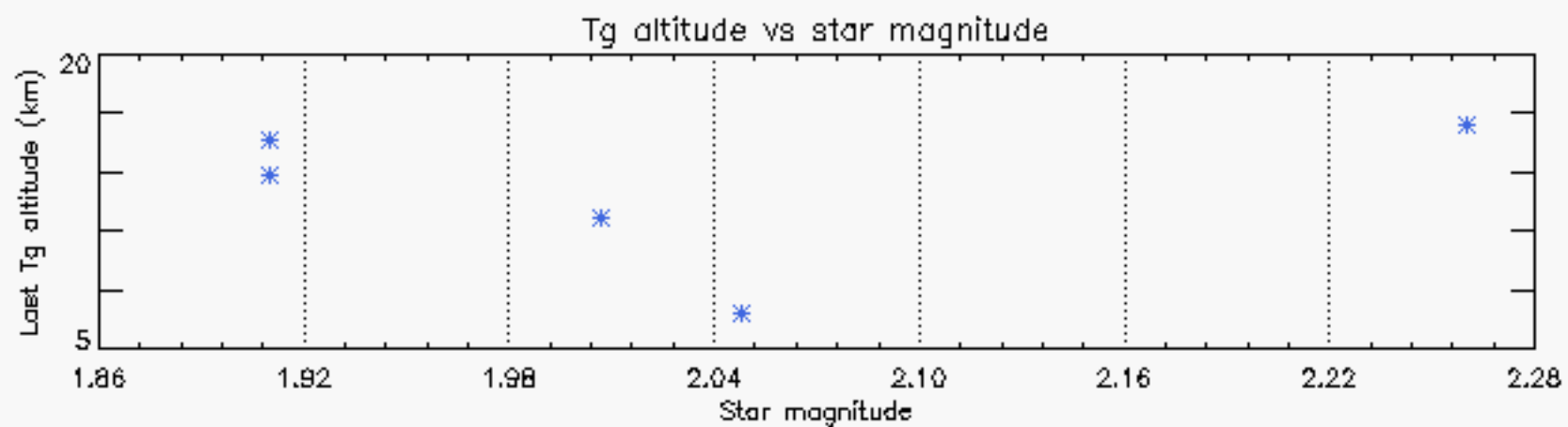
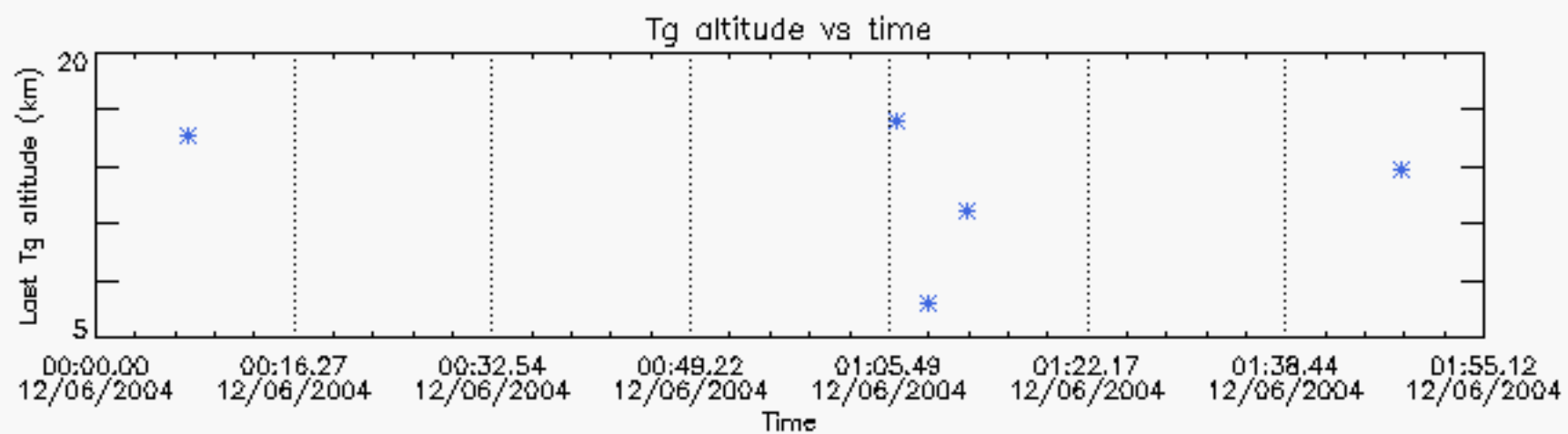
Tangent altitude at which the star is lost



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

1;-4410.1; 01-JUN-2004 06:09:33; Bright; 47.0; 86; 35Eta Oph ; 2.43; 10200;occ; 94; 71;11783
 2;-4334.4; 01-JUN-2004 06:10:49; Bright; 42.5; 98; 13Zet Oph ; 2.57; 30000;occ; 85; 0;11783
 3;-4203.2; 01-JUN-2004 06:13:00; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;11783
 4;-4022.5; 01-JUN-2004 06:16:01; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;11783
 5;-3779.7; 01-JUN-2004 06:20:04; Bright; 38.0; 3; 16Alp Boo ;-0.05; 4250;occ; 76; 0;11783
 6;-3664.8; 01-JUN-2004 06:21:59; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;11783
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26;	493.7;	01-JUN-2004	10:52:29;	Dark	; 45.5;	45;	Alp Pav	; 1.94;	26000;occ;	91;	0;	11786
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3;	-4950.1;	09-JUN-2004	18:33:37;	Dark	;	47.5;	40;	The Sco	;	1.86;	7100;occ;	95;	0;	11905
4;	-4844.8;	09-JUN-2004	18:35:22;	Dark	;	44.5;	25;	35Lam Sco	;	1.62;	28000;occ;	89;	0;	11905
5;	-4747.2;	09-JUN-2004	18:37:00;	Dark	;	60.5;	57;	34Sig Sgr	;	2.07;	26000;occ;	121;	0;	11905
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7;	-4433.8;	09-JUN-2004	18:42:13;	Bright;		43.5;	86;	35Eta Oph	;	2.43;	10200;occ;	87;	0;	11905
8;	-4327.5;	09-JUN-2004	18:44:00;	Bright;		39.5;	98;	13Zet Oph	;	2.57;	30000;occ;	79;	0;	11905
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11;	-3848.1;	09-JUN-2004	18:51:59;	Bright;		49.0;	59;	55Alp Oph	;	2.08;	8900;occ;	98;	0;	11905
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13;	-3647.8;	09-JUN-2004	18:55:19;	Bright;		39.5;	83;		;	2.38;	11000;occ;	79;	0;	11905
14;	-3559.3;	09-JUN-2004	18:56:48;	Bright;		42.5;	133;	40Zet Her	;	2.81;	6000;occ;	85;	0;	11905
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16;	-3236.0;	09-JUN-2004	19:02:11;	Bright;		39.0;	39;	85Eta UMa	;	1.85;	24000;occ;	78;	0;	11905
17;	-3124.2;	09-JUN-2004	19:04:03;	Bright;		40.0;	55;	79Zet UMa	;	2.06;	10200;occ;	80;	0;	11905
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22;	-2018.7;	09-JUN-2004	19:22:28;	Dark	;	255.0;	92;	53Eps Cyg	;	2.50;	4500;occ;	510;	0;	11905
23;	-1632.0;	09-JUN-2004	19:28:55;	Dark	;	62.0;	53;	43Bet And	;	2.05;	3300;occ;	124;	0;	11905
24;	-1435.1;	09-JUN-2004	19:32:12;	Dark	;	46.0;	50;	13Alp Ari	;	2.01;	4250;occ;	92;	0;	11905
25;	-1317.6;	09-JUN-2004	19:34:10;	Dark	;	133.0;	93;	53Bet Peg	;	2.52;	3100;occ;	266;	0;	11905
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13;	-3646.9;	09-JUN-2004	20:35:56;	Bright;		37.0;	83;		;	2.38;	11000;occ;	74;	0;	11906
14;	-3559.4;	09-JUN-2004	20:37:24;	Bright;		41.0;	133;	40Zet Her	;	2.81;	6000;occ;	82;	0;	11906
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17;	-3124.3;	09-JUN-2004	20:44:39;	Bright;		40.0;	55;	79Zet UMa	;	2.06;	10200;occ;	80;	0;	11906
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23;	-1632.2;	09-JUN-2004	21:09:31;	Dark	;	54.5;	53;	43Bet And	;	2.05;	3300;occ;	109;	0;	11906
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25;	-1317.1;	09-JUN-2004	21:14:46;	Dark	;	132.0;	93;	53Bet Peg	;	2.52;	3100;occ;	264;	0;	11906
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27;	-550.5;	09-JUN-2004	21:27:33;	Dark	;	53.0;	52;	16Bet Cet	;	2.04;	4500;occ;	106;	0;	11906
28;	-445.7;	09-JUN-2004	21:29:17;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	11906
29;	-82.3;	09-JUN-2004	21:35:21;	Dark	;	47.5;	9;	Alp Eri	;	0.45;	24000;occ;	95;	0;	11906
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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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25; 3189.1; 30-JUN-2004 01:22:17; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;12195
26; 3349.1; 30-JUN-2004 01:24:57; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;12195
27; 3788.4; 30-JUN-2004 01:32:17; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;12195
28; 3889.9; 30-JUN-2004 01:33:58; Bright; 49.0; 68; 18Alp Cas ; 2.22; 4500;occ; 98; 0;12195
29; 4062.1; 30-JUN-2004 01:36:50; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;12195
30; 4164.1; 30-JUN-2004 01:38:32; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;12195
31; 4266.4; 30-JUN-2004 01:40:15; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;12195
32; 4418.8; 30-JUN-2004 01:42:47; Dark ; 69.0; 53; 43Bet And ; 2.05; 3300;occ; 138; 0;12195
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6; 476.5; 30-JUN-2004 02:17:41; Dark ; 66.0; 63; Bet Gru ; 2.15; 2800;occ; 132; 0;12196
7; 593.5; 30-JUN-2004 02:19:38; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;12196
8; 738.6; 30-JUN-2004 02:22:03; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;12196
9; 972.0; 30-JUN-2004 02:25:56; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;12196
10; 1056.9; 30-JUN-2004 02:27:21; Dark ; 43.5; 147; Alp Ara ; 2.88; 26000;occ; 87; 0;12196
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