

GOMOS Daily Report 21-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	24JUN2004 14:20:25
Data source version	GOMOS/4.02
Start time of products	21-JUN-2004 (21JUN2004 00:00:00)
Stop time of products	22-JUN-2004 (22JUN2004 00:00:00)

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

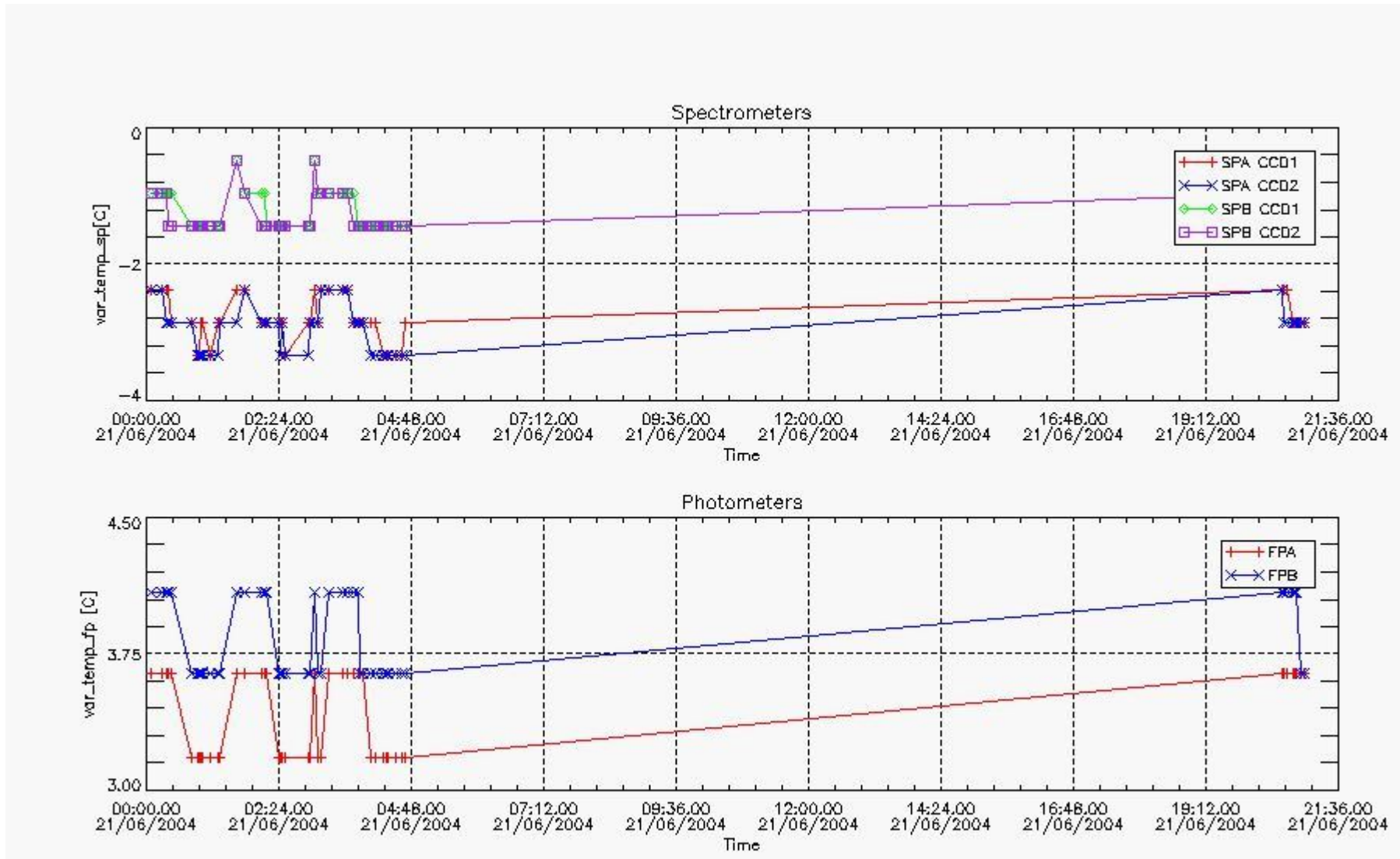
2. Summary of products arrived in PCF

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_1PNPDE20040621_000529_000000622027_00488_12065_0000.N1	21-JUN-2004 00:05:29	Dark	62.000	52	16Bet Cet	2.0370	4500.0	124	12065	No
GOM_TRA_1PNPDE20040621_001722_000000752027_00489_12066_0002.N1	21-JUN-2004 00:17:22	Dark	74.500	18	24Alp PsA	1.1660	9700.0	149	12066	No
GOM_TRA_1PNPDE20040621_002206_000000612027_00489_12066_0004.N1	21-JUN-2004 00:22:06	Twilight	60.500	172	Gam Gru	3.0030	13100.	121	12066	No
GOM_TRA_1PNPDE20040621_002430_000000482027_00489_12066_0005.N1	21-JUN-2004 00:24:30	Twilight	48.000	43	Alp TrA	1.9100	4250.0	96	12066	No
GOM_TRA_1PNPDE20040621_002740_000000452027_00489_12066_0006.N1	21-JUN-2004 00:27:40	Bright	44.500	141	Bet Ara	2.8400	4600.0	89	12066	No
GOM_TRA_1PNPDE20040621_004947_000000382027_00489_12066_0017.N1	21-JUN-2004 00:49:47	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	12066	No
GOM_TRA_1PNPDE20040621_005546_000000382027_00489_12066_0019.N1	21-JUN-2004 00:55:46	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	12066	No
GOM_TRA_1PNPDE20040621_005730_000000472027_00489_12066_0020.N1	21-JUN-2004 00:57:30	Bright	47.000	5	3Alp Lyr	0.033000	11000.	94	12066	No
GOM_TRA_1PNPDE20040621_005913_000000402027_00489_12066_0021.N1	21-JUN-2004 00:59:13	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	12066	No
GOM_TRA_1PNPDE20040621_010107_000000392027_00489_12066_0022.N1	21-JUN-2004 01:01:07	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	12066	No
GOM_TRA_1PNPDE20040621_010918_000000392027_00489_12066_0024.N1	21-JUN-2004 01:09:18	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	12066	No
GOM_TRA_1PNPDE20040621_011733_000000472027_00489_12066_0026.N1	21-JUN-2004 01:17:33	Bright	47.000	68	18Alp Cas	2.2250	4500.0	94	12066	No
GOM_TRA_1PNPDE20040621_011938_000000372027_00489_12066_0027.N1	21-JUN-2004 01:19:38	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	12066	No
GOM_TRA_1PNPDE20040621_013806_000000402027_00489_12066_0000.N1	21-JUN-2004 01:38:06	Dark	39.500	165	34Gam Eri	2.9500	3200.0	79	12066	Yes
GOM_TRA_1PNPDE20040621_014606_000000662027_00489_12066_0001.N1	21-JUN-2004 01:46:06	Dark	66.000	52	16Bet Cet	2.0370	4500.0	132	12066	No
GOM_TRA_1PNPDE20040621_020506_000000452027_00490_12067_0006.N1	21-JUN-2004 02:05:06	Twilight	45.000	43	Alp TrA	1.9100	4250.0	90	12067	No
GOM_TRA_1PNPDE20040621_020814_000000472027_00490_12067_0007.N1	21-JUN-2004 02:08:14	Bright	47.000	141	Bet Ara	2.8400	4600.0	94	12067	No
GOM_TRA_1PNPDE20040621_020941_000000402027_00490_12067_0008.N1	21-JUN-2004 02:09:41	Bright	39.500	147	Alp Ara	2.8770	26000.	79	12067	No
GOM_TRA_1PNPDE20040621_022322_000000392027_00490_12067_0015.N1	21-JUN-2004 02:23:22	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12067	No
GOM_TRA_1PNPDE20040621_022541_000000422027_00490_12067_0016.N1	21-JUN-2004 02:25:41	Bright	41.500	126	60Bet Oph	2.7700	4250.0	83	12067	No
GOM_TRA_1PNPDE20040621_022807_000000412027_00490_12067_0017.N1	21-JUN-2004 02:28:07	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	12067	No
GOM_TRA_1PNPDE20040621_023022_000000372027_00490_12067_0018.N1	21-JUN-2004 02:30:22	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	12067	No
GOM_TRA_1PNPDE20040621_025637_000000472027_00490_12067_0000.N1	21-JUN-2004 02:56:37	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	12067	No
GOM_TRA_1PNPDE20040621_025808_000000482027_00490_12067_0001.N1	21-JUN-2004 02:58:08	Bright	47.500	68	18Alp Cas	2.2250	4500.0	95	12067	No
GOM_TRA_1PNPDE20040621_030340_000000462027_00490_12067_0000.N1	21-JUN-2004 03:03:40	Twilight	45.500	73	57Gam1And	2.2600	13100.	91	12067	No
GOM_TRA_1PNPDE20040621_030605_000000622027_00490_12067_0001.N1	21-JUN-2004 03:06:05	Twilight	62.000	53	43Bet And	2.0480	3300.0	124	12067	No
GOM_TRA_1PNPDE20040621_030948_000000542027_00490_12067_0002.N1	21-JUN-2004 03:09:48	Twilight	54.000	50	13Alp Ari	2.0070	4250.0	108	12067	No
GOM_TRA_1PNPDE20040621_031842_000000382027_00490_12067_0004.N1	21-JUN-2004 03:18:42	Dark	37.500	165	34Gam Eri	2.9500	3200.0	75	12067	No
GOM_TRA_1PNPDE20040621_033239_000000452027_00490_12067_0006.N1	21-JUN-2004 03:32:39	Dark	45.000	9	Alp Eri	0.45300	24000.	90	12067	No
GOM_TRA_1PNPDE20040621_033837_000000772027_00491_12068_0007.N1	21-JUN-2004 03:38:37	Dark	76.500	18	24Alp PsA	1.1660	9700.0	153	12068	No
GOM_TRA_1PNPDE20040621_034542_000000422027_00491_12068_0010.N1	21-JUN-2004 03:45:42	Twilight	42.000	43	Alp TrA	1.9100	4250.0	84	12068	No
GOM_TRA_1PNPDE20040621_035015_000000432027_00491_12068_0012.N1	21-JUN-2004 03:50:15	Bright	43.000	147	Alp Ara	2.8770	26000.	86	12068	No
GOM_TRA_1PNPDE20040621_035203_000000462027_00491_12068_0013.N1	21-JUN-2004 03:52:03	Bright	45.500	40	The Sco	1.8590	7100.0	91	12068	No
GOM_TRA_1PNPDE20040621_035505_000000592027_00491_12068_0015.N1	21-JUN-2004 03:55:05	Bright	59.000	116	19Del Sgr	2.7000	4100.0	118	12068	No
GOM_TRA_1PNPDE20040621_040358_000000392027_00491_12068_0019.N1	21-JUN-2004 04:03:58	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12068	No
GOM_TRA_1PNPDE20040621_040843_000000412027_00491_12068_0021.N1	21-JUN-2004 04:08:43	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	12068	No
GOM_TRA_1PNPDE20040621_041658_000000412027_00491_12068_0024.N1	21-JUN-2004 04:16:58	Bright	40.500	180	27Gam Boo	3.0400	8000.0	81	12068	No
GOM_TRA_1PNPDE20040621_042025_000000402027_00491_12068_0026.N1	21-JUN-2004 04:20:25	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	12068	No
GOM_TRA_1PNPDE20040621_042219_000000382027_00491_12068_0027.N1	21-JUN-2004 04:22:19	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	12068	No
GOM_TRA_1PNPDE20040621_043031_000000382027_00491_12068_0029.N1	21-JUN-2004 04:30:31	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	12068	No
GOM_TRA_1PNPDE20040621_043713_000000472027_00491_12068_0000.N1	21-JUN-2004 04:37:13	Bright	47.000	74	11Bet Cas	2.2680	6600.0	94	12068	No
GOM_TRA_1PNPDE20040621_044050_000000532027_00491_12068_0002.N1	21-JUN-2004 04:40:50	Bright	52.500	160	23Gam Per	2.9300	4700.0	105	12068	No
GOM_TRA_1PNPDE20040621_203457_000000452027_00501_12078_0000.N1	21-JUN-2004 20:34:57	Bright	44.500	141	Bet Ara	2.8400	4600.0	89	12078	No
GOM_TRA_1PNPDE20040621_203622_000000372027_00501_12078_0001.N1	21-JUN-2004 20:36:22	Bright	36.500	147	Alp Ara	2.8770	26000.	73	12078	No
GOM_TRA_1PNPDE20040621_203949_000000422027_00501_12078_0003.N1	21-JUN-2004 20:39:49	Bright	42.000	25	35Lam Sco	1.6200	28000.	84	12078	No
GOM_TRA_1PNPDE20040621_204612_000000362027_00501_12078_0006.N1	21-JUN-2004 20:46:12	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	12078	No
GOM_TRA_1PNPDE20040621_204756_000000362027_00501_12078_0007.N1	21-JUN-2004 20:47:56	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	12078	No
GOM_TRA_1PNPDE20040621_205002_000000352027_00501_12078_0008.N1	21-JUN-2004 20:50:02	Bright	34.500	120	1Del Oph	2.7340	3200.0	69	12078	No
GOM_TRA_1PNPDE20040621_205443_000000392027_00501_12078_0010.N1	21-JUN-2004 20:54:43	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	12078	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).

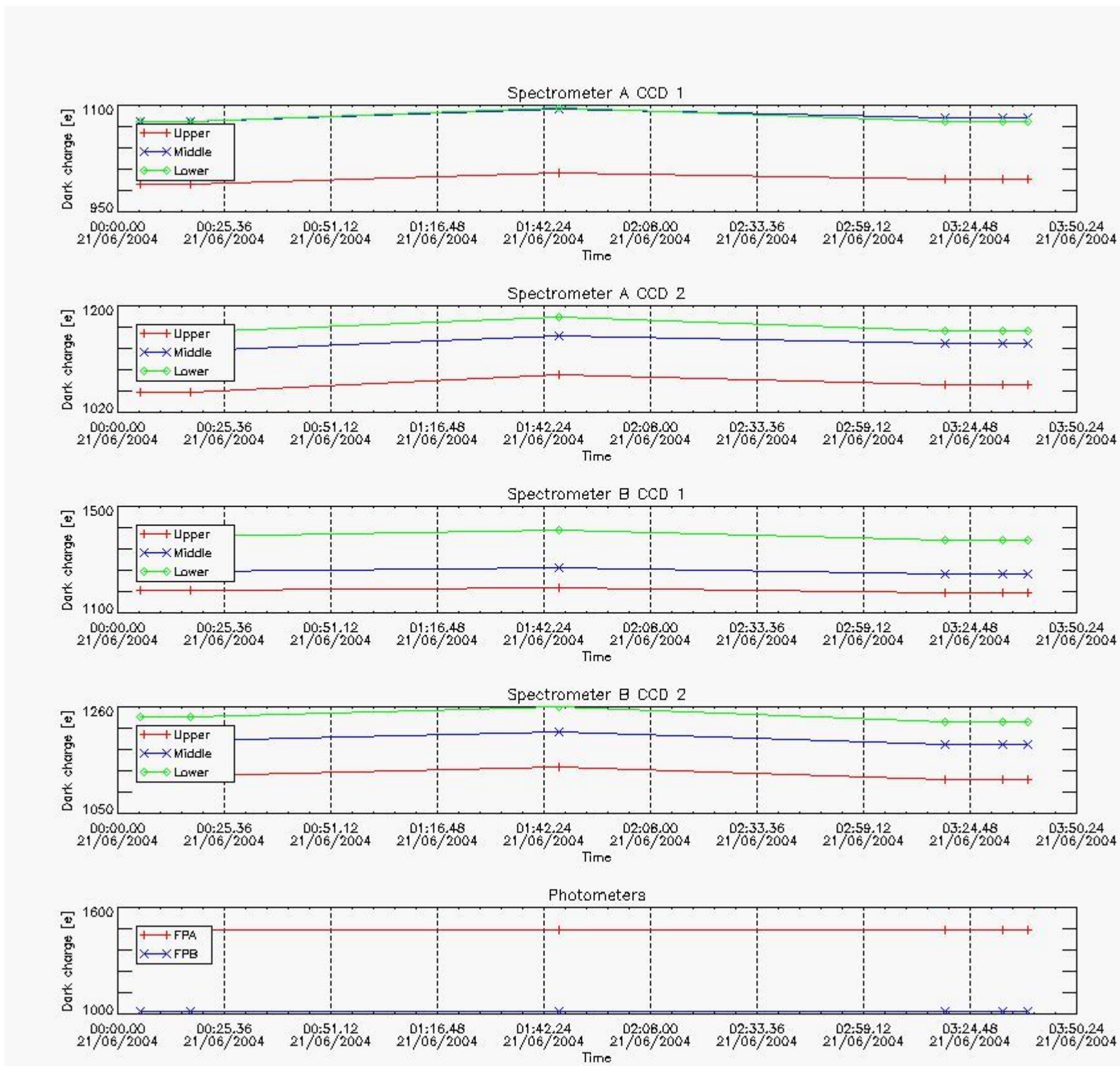
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20040621_025637_000000472027_00490_12067_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20040621_025808_000000482027_00490_12067_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040621_043713_000000472027_00491_12068_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20040621_044050_000000532027_00491_12068_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040621_203457_000000452027_00501_12078_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20040621_203622_000000372027_00501_12078_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040621_203949_000000422027_00501_12078_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040621_204612_000000362027_00501_12078_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040621_204756_000000362027_00501_12078_0007.N1	DC map used (0)

GOM_TRA_1PNPDE20040621_205002_000000352027_00501_12078_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20040621_205443_000000392027_00501_12078_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20040621_205849_000000372027_00501_12078_0012.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

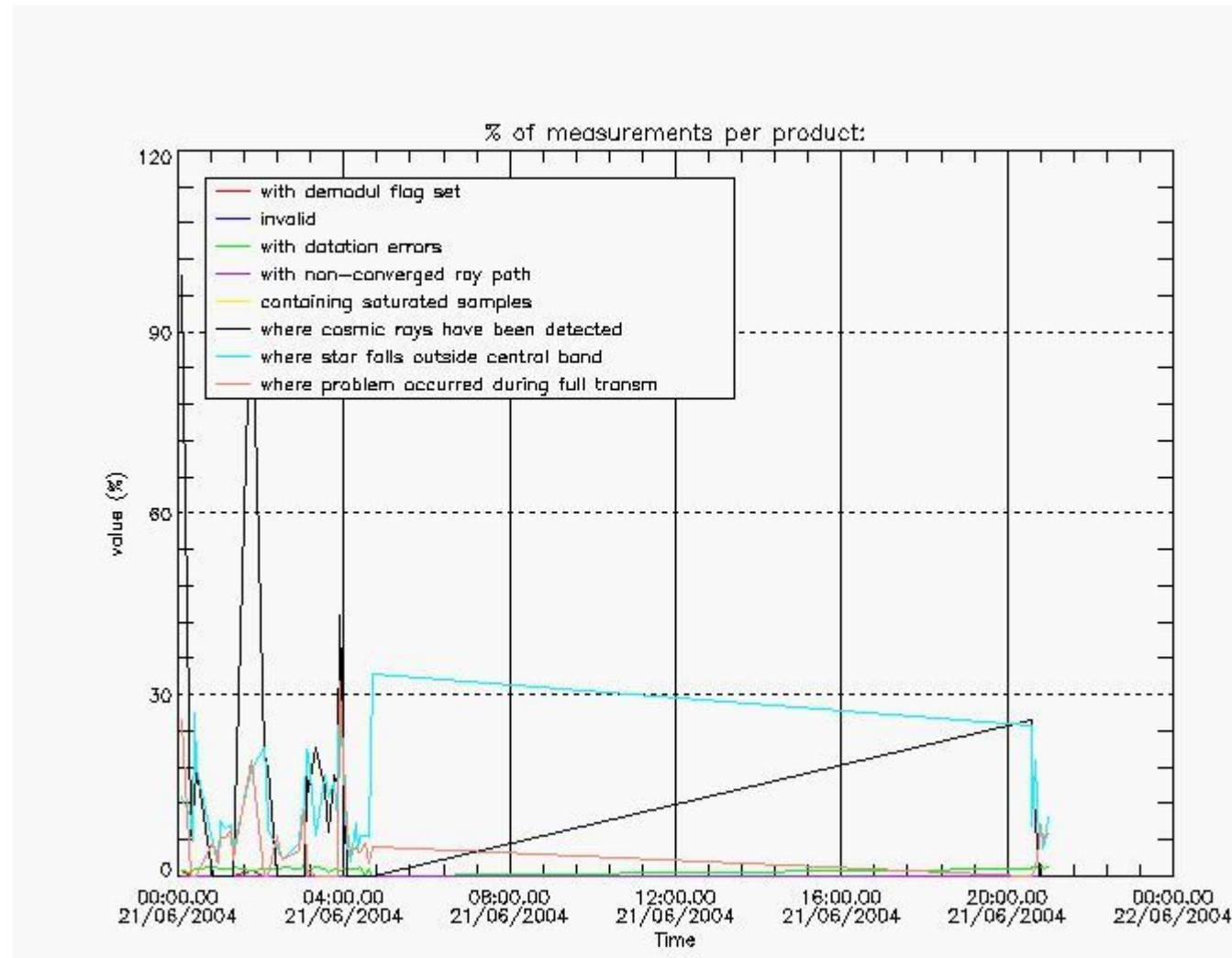
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

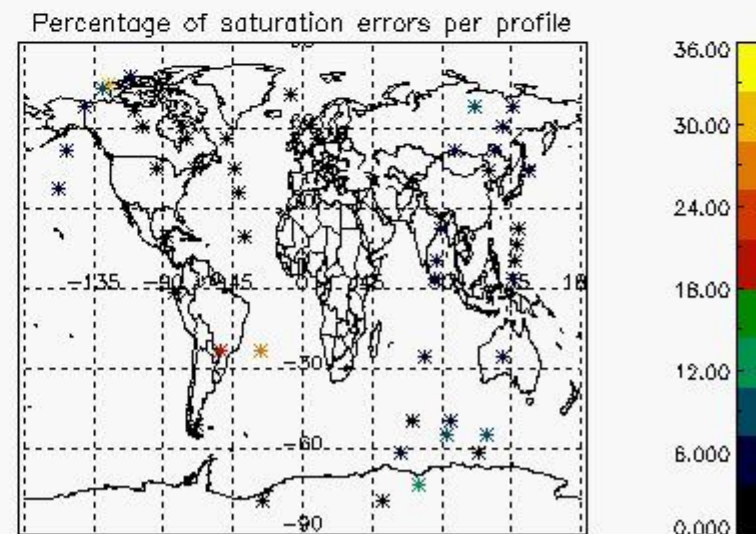
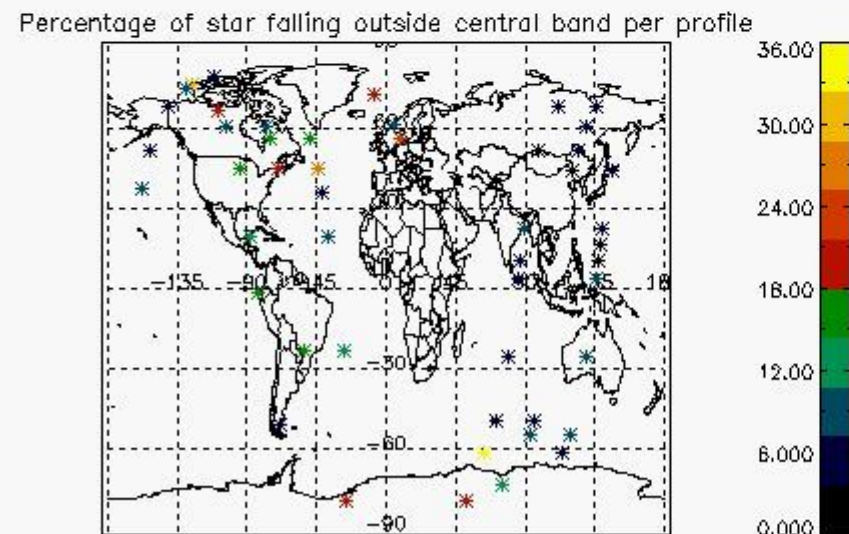
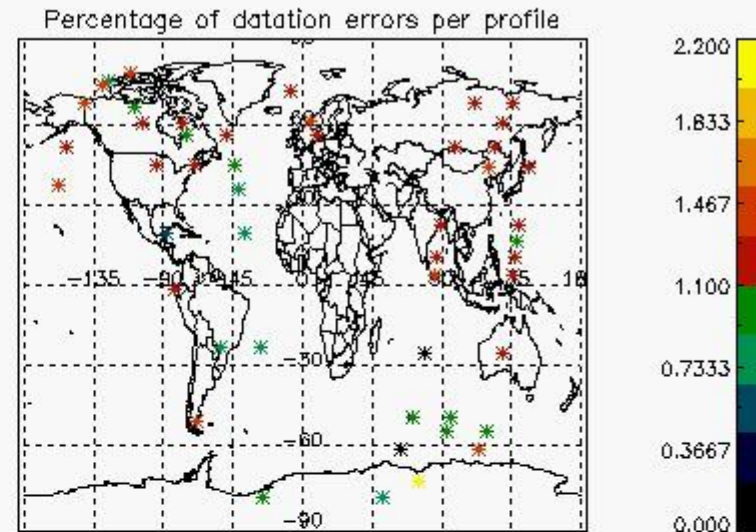
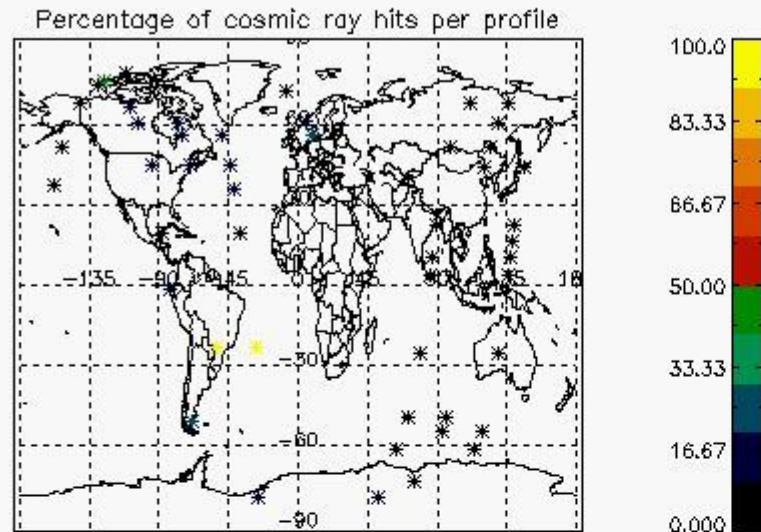
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	8.16327 %
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)



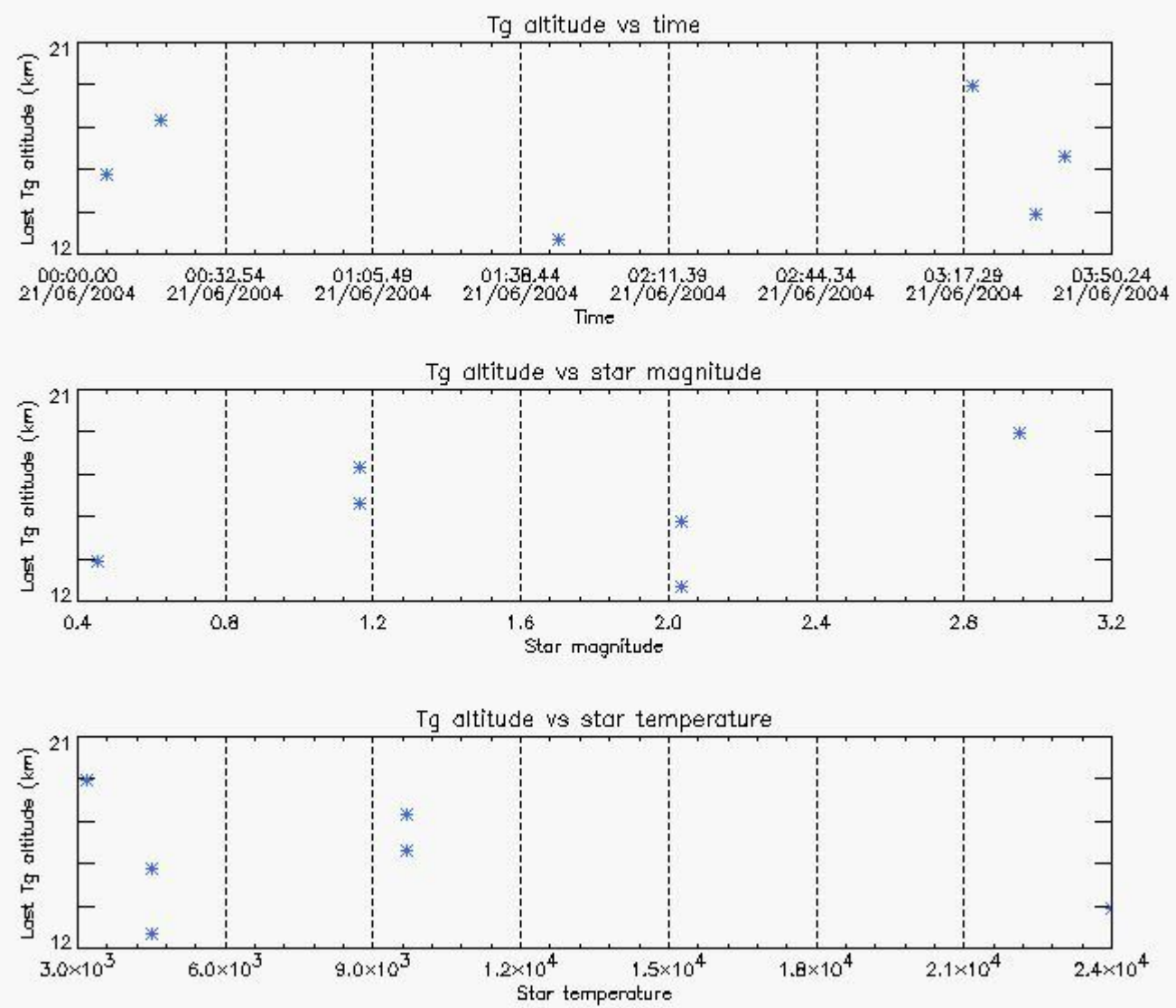
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.789	19.016	12.989
St. deviation:	2.4482	4.8499	4.3162
Maximum:	19.189	24.138	20.524
Minimum:	12.639	5.2618	7.6666
Number of data:	6.0000	36.000	7.0000

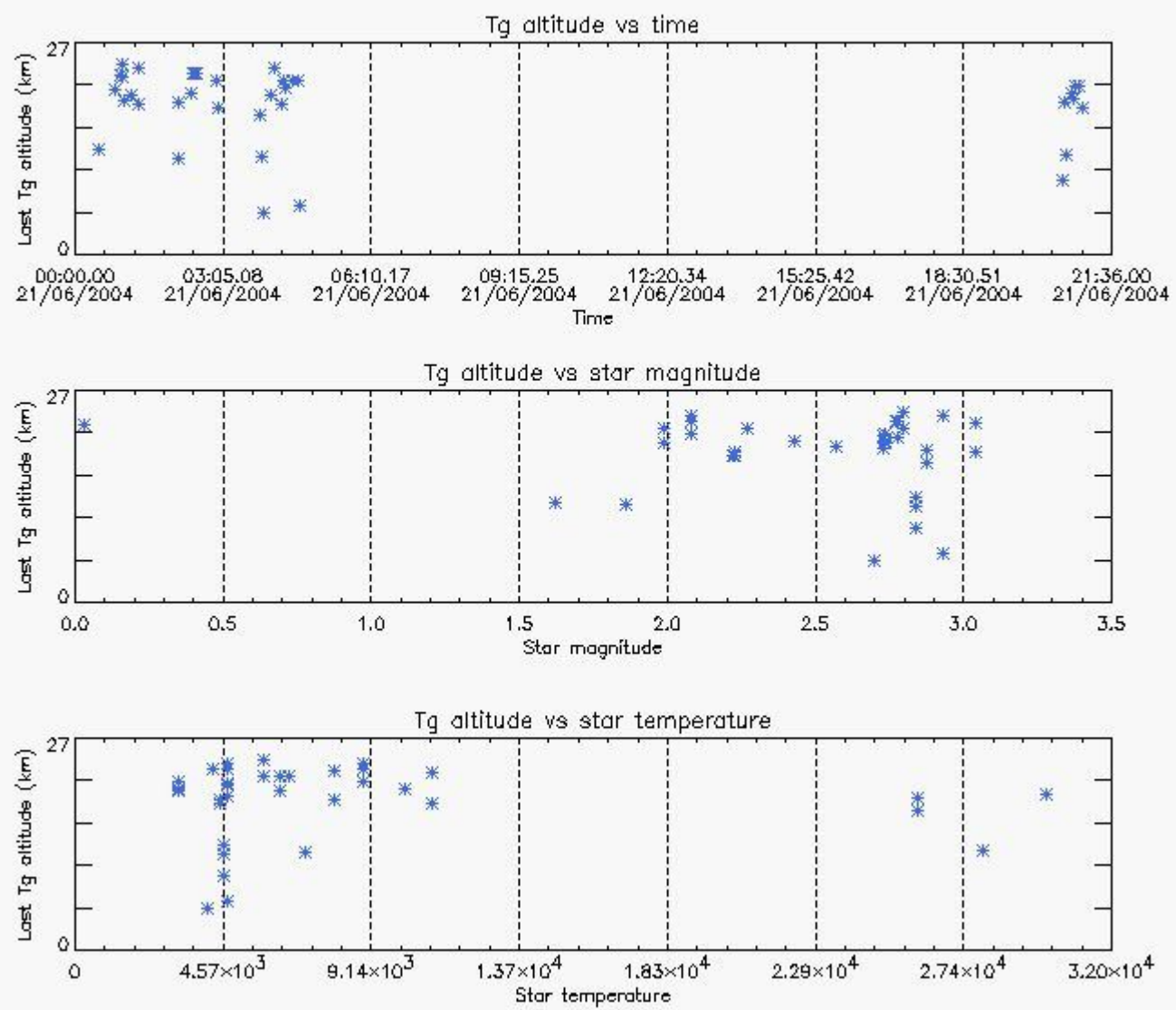
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



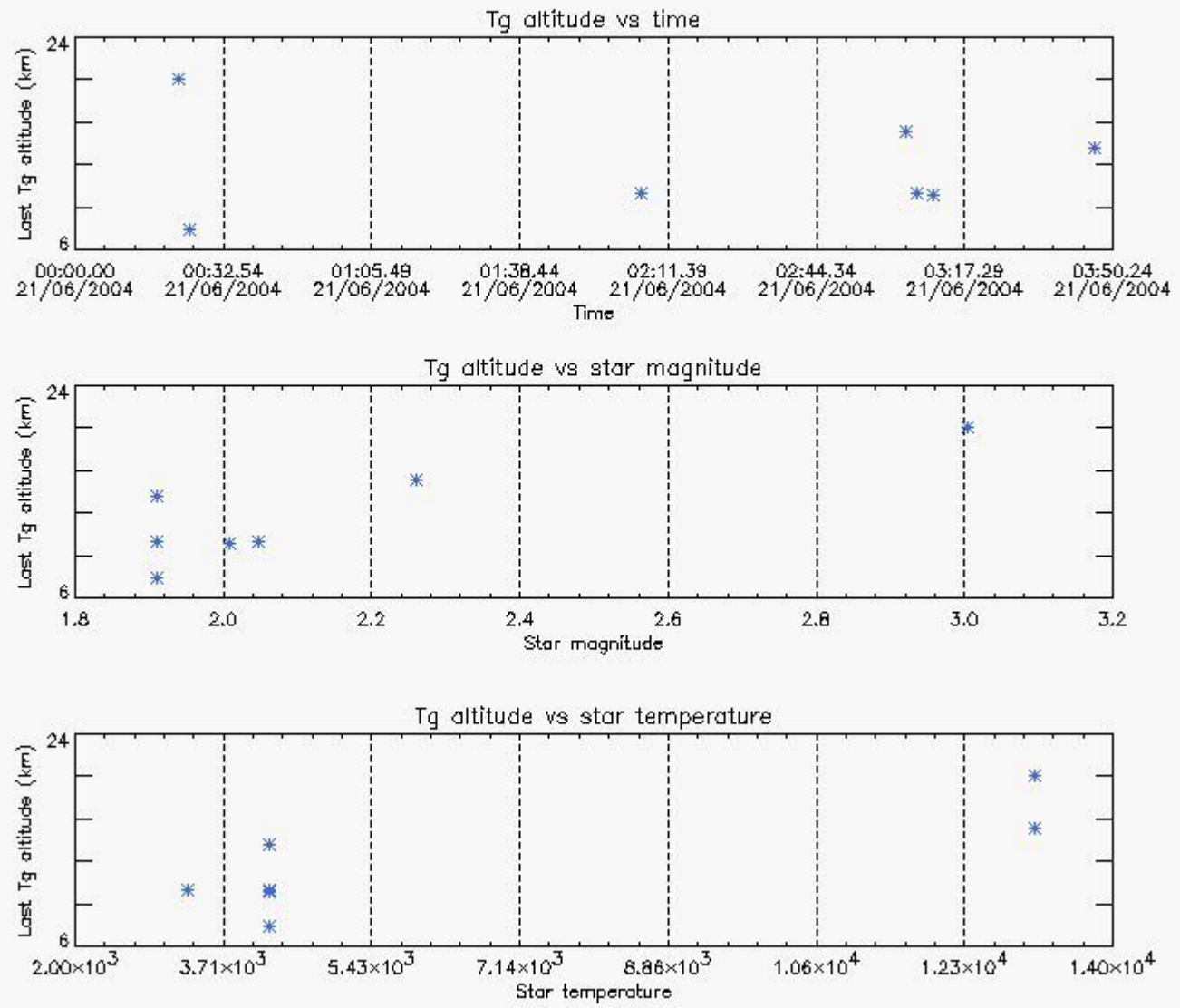
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

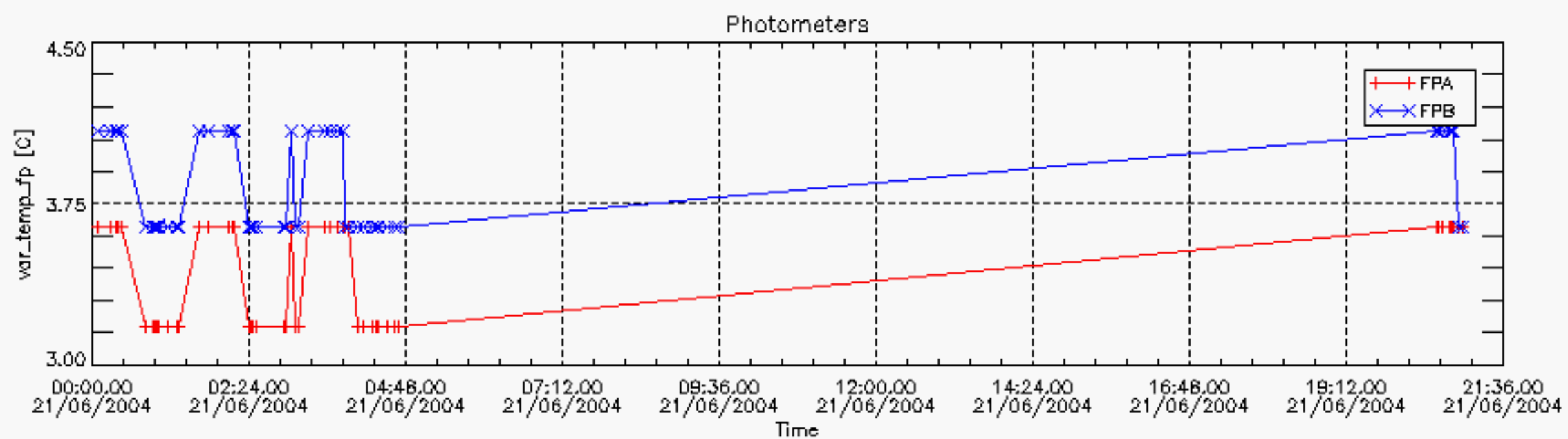
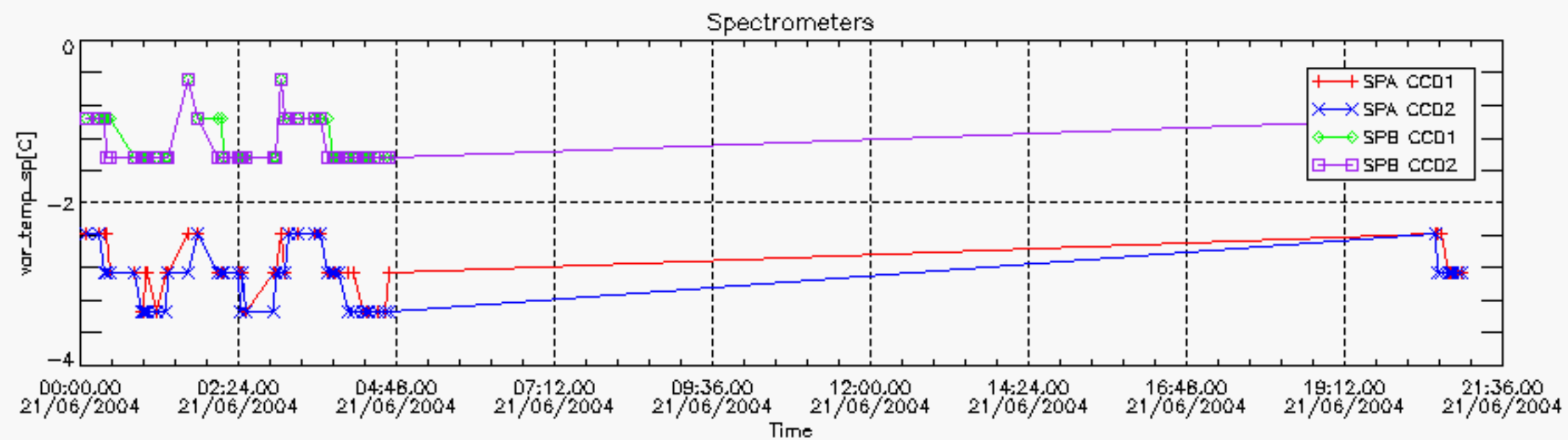
Tangent altitude at which the star is lost

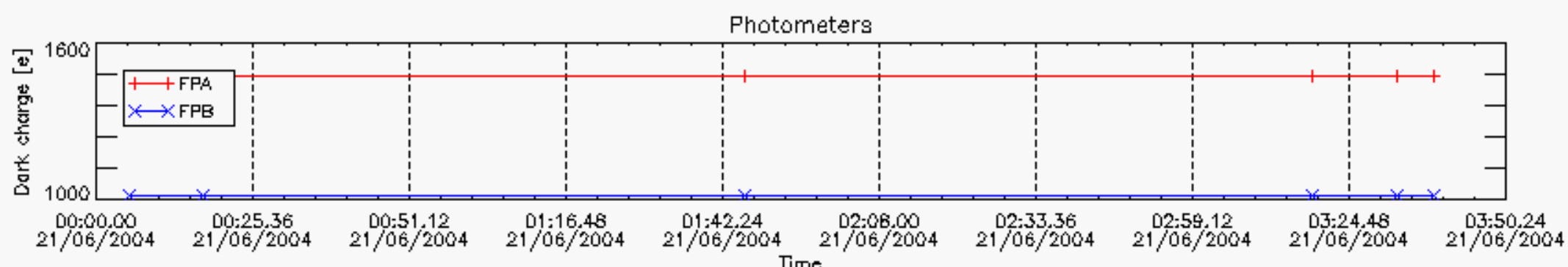
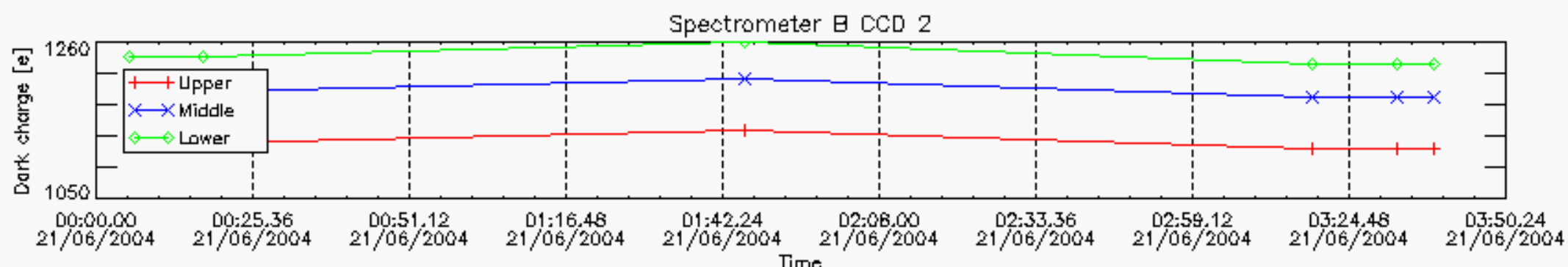
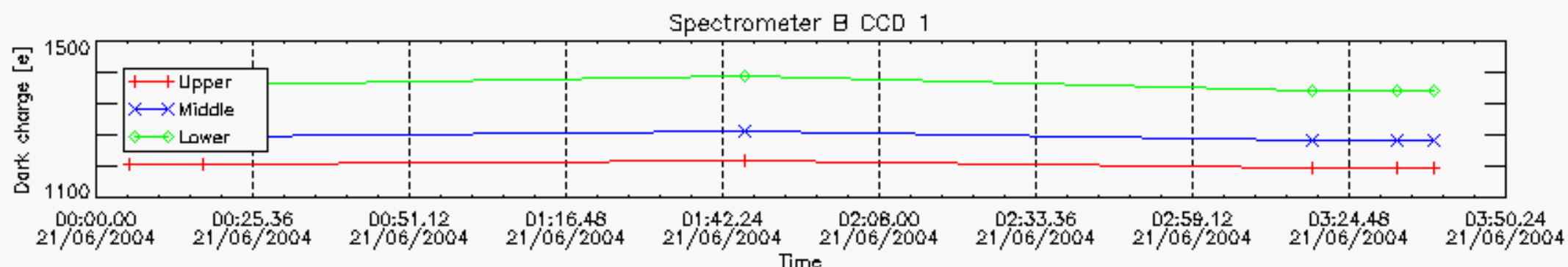
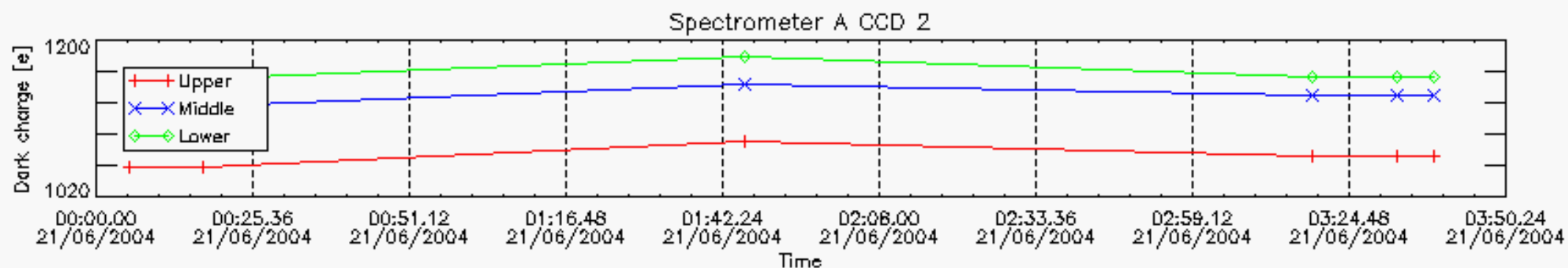
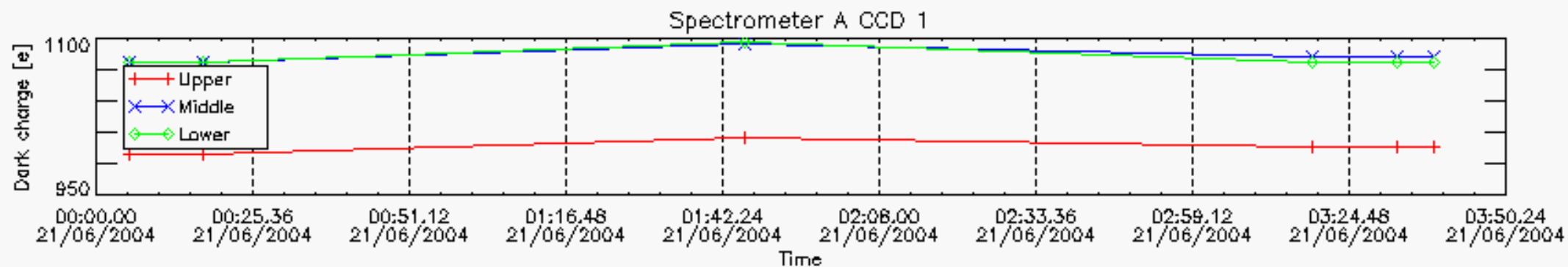


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

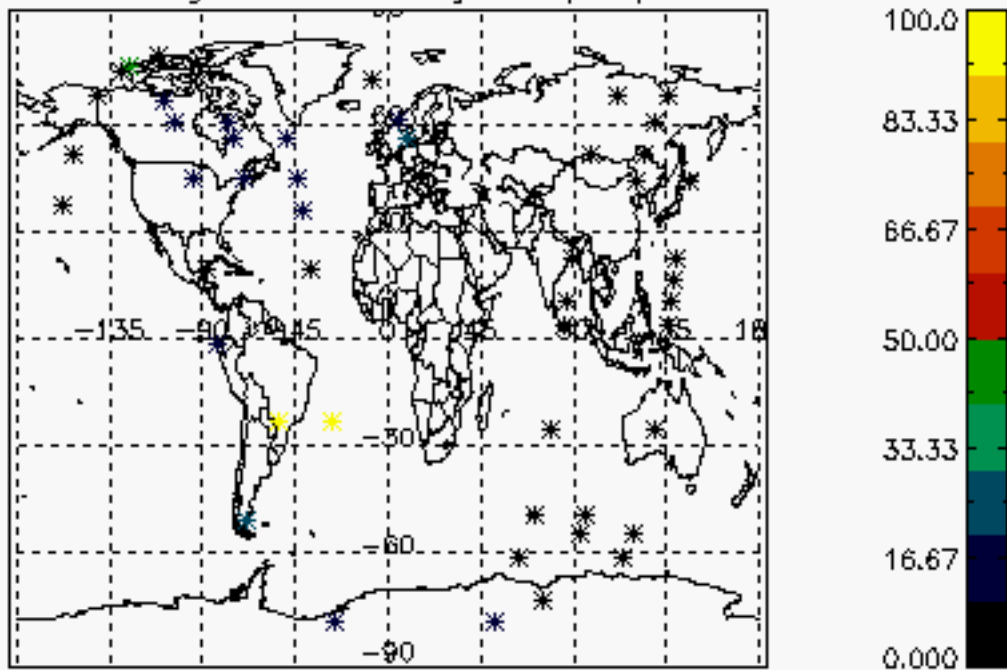
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.9	1449.3	1461.5	1446.6
St. deviation:	3.2832	3.9194	6.9323	8.1349
Maximum:	1516.0	1494.0	1512.0	1493.0
Minimum:	1451.0	1439.0	1427.0	1418.0
Number of data:	9400.0	9400.0	37850.	37850.

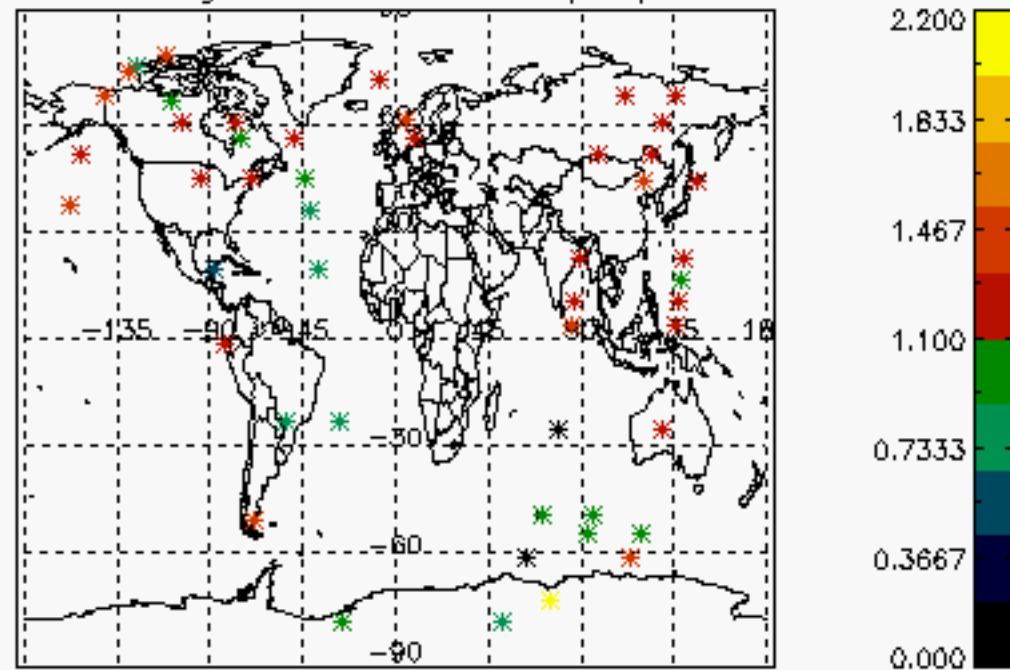




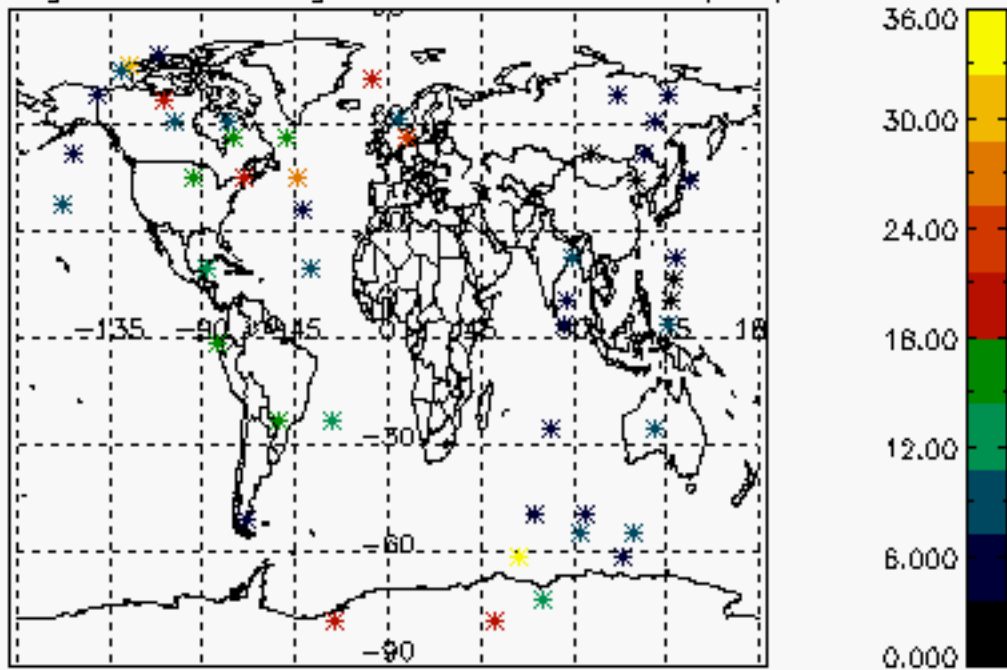
Percentage of cosmic ray hits per profile



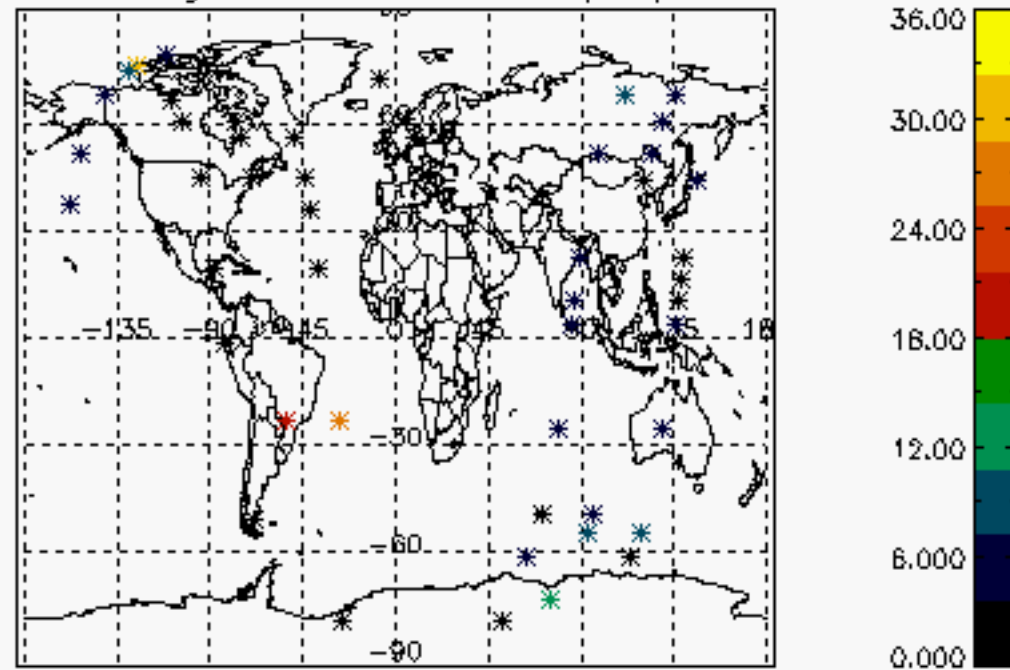
Percentage of datation errors per profile



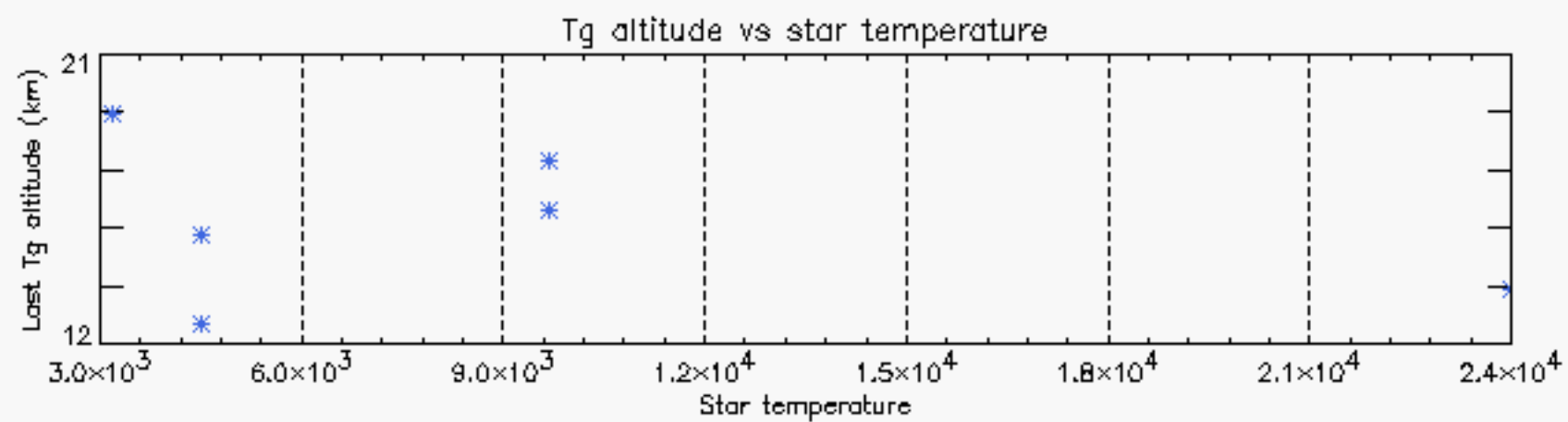
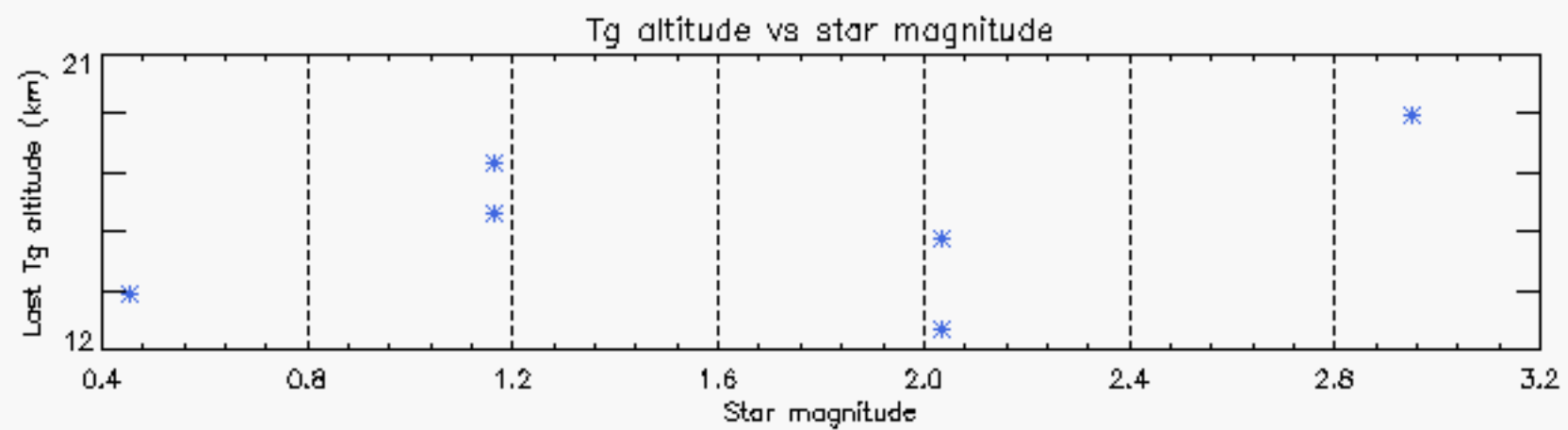
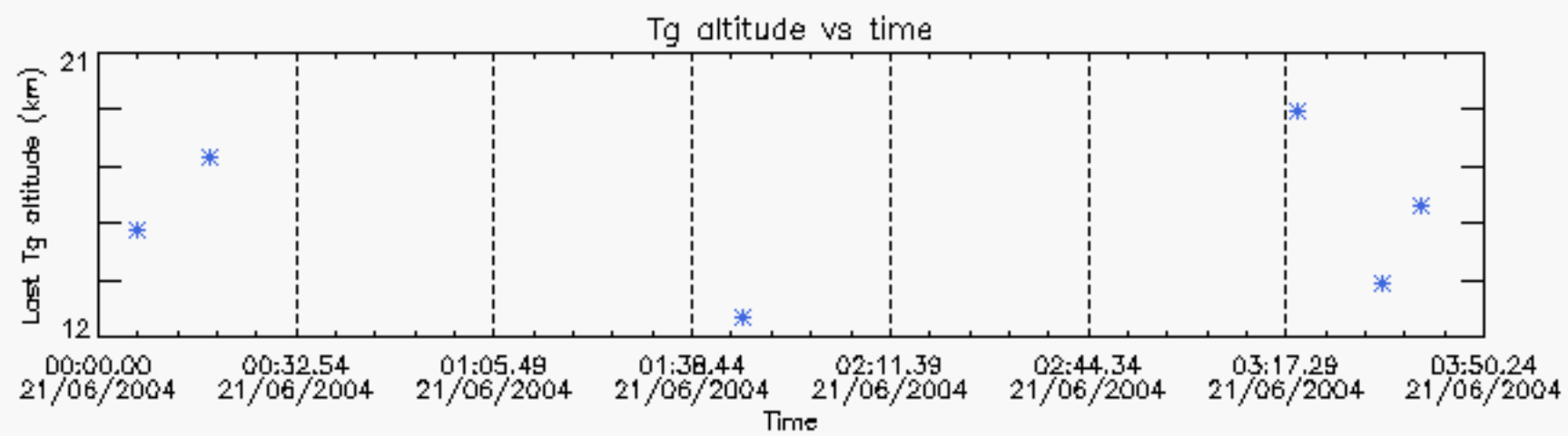
Percentage of star falling outside central band per profile



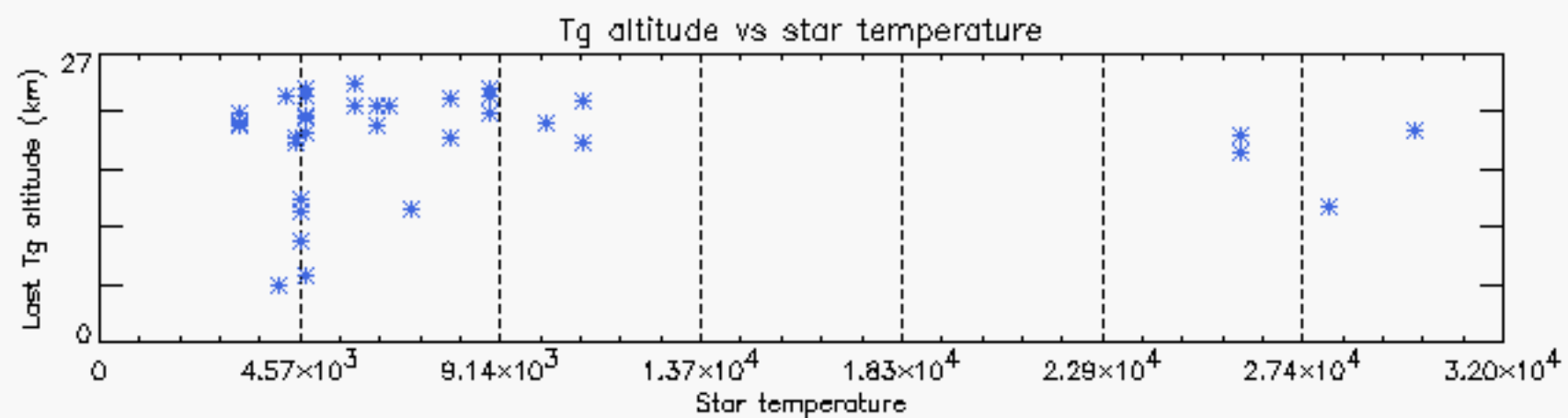
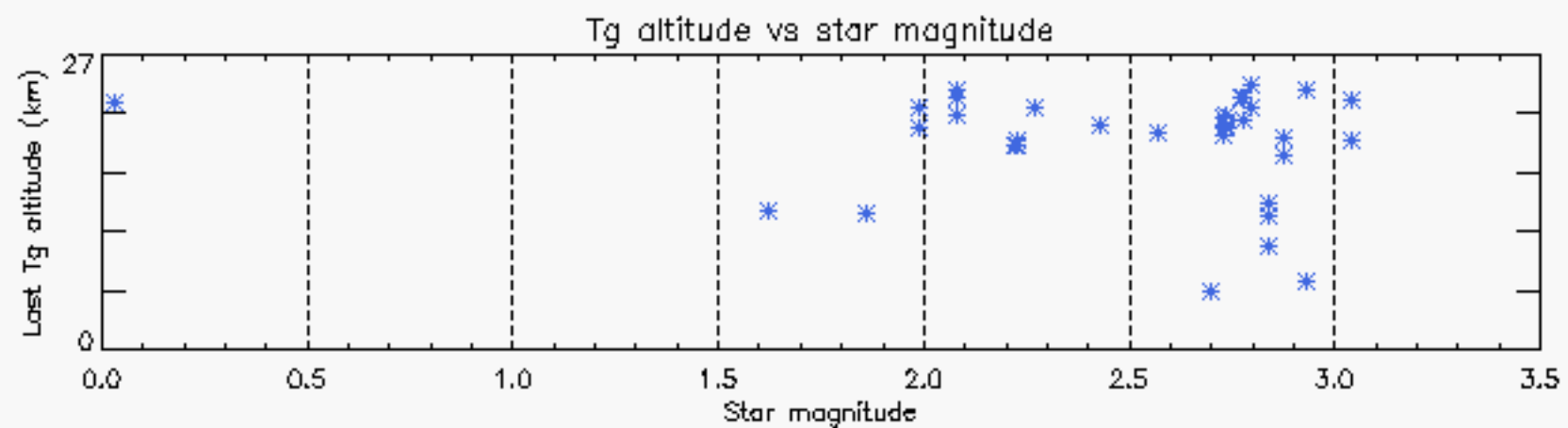
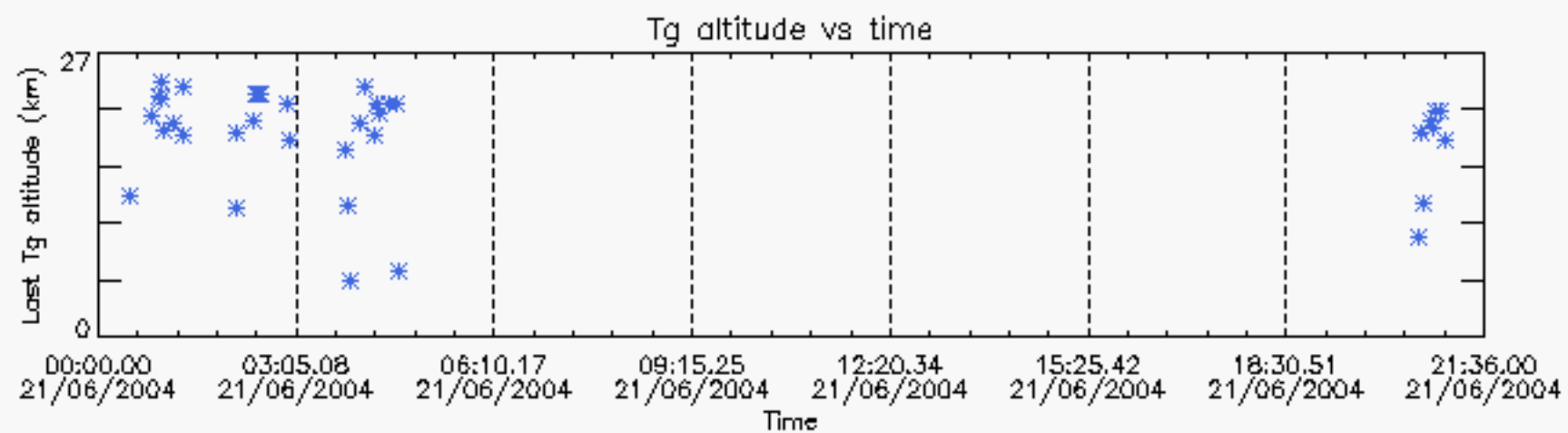
Percentage of saturation errors per profile



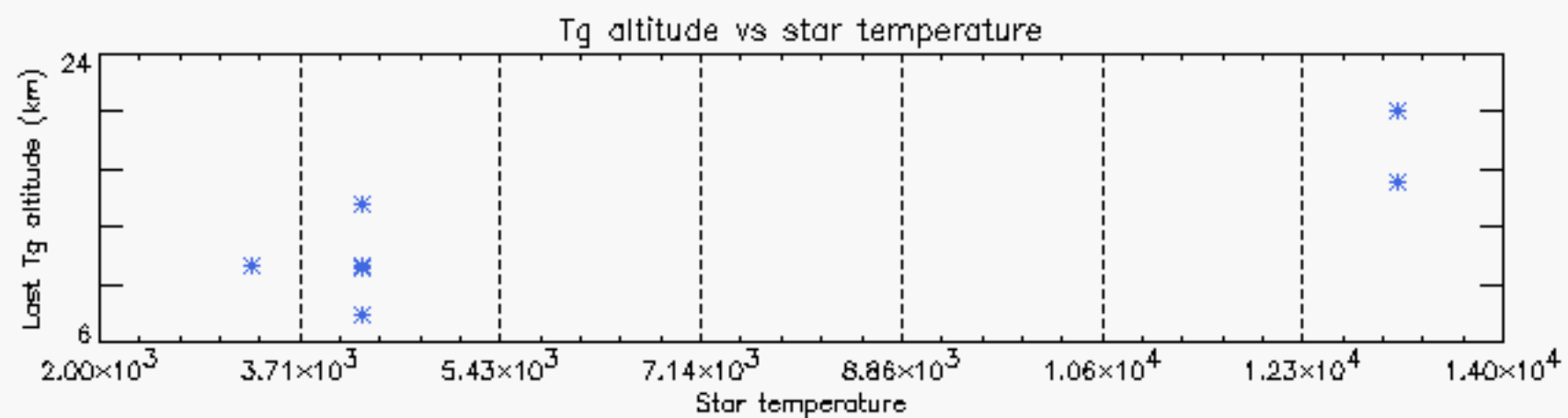
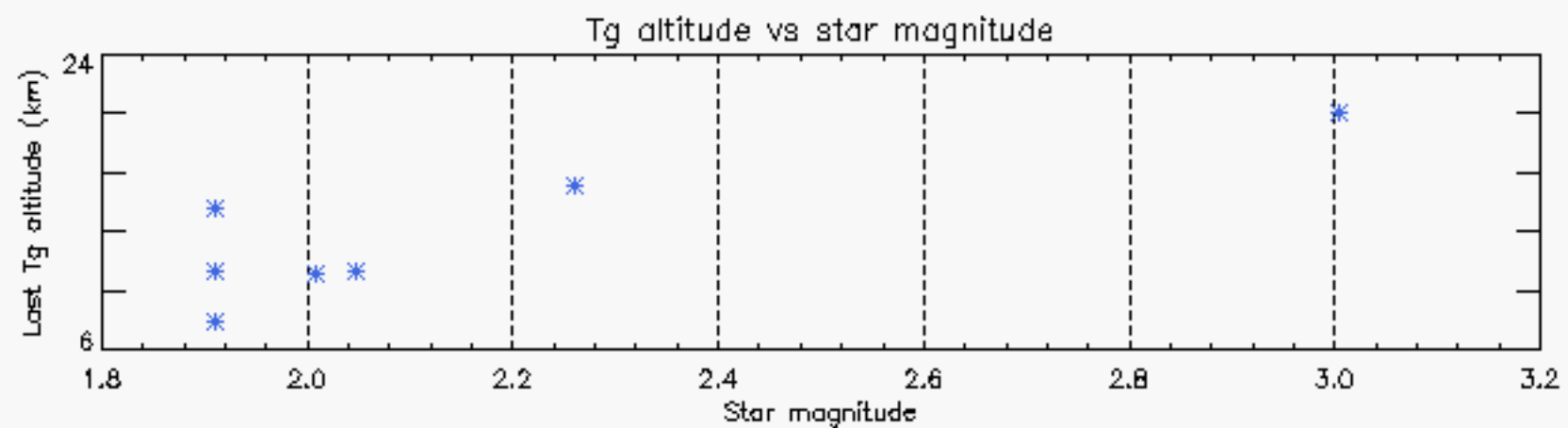
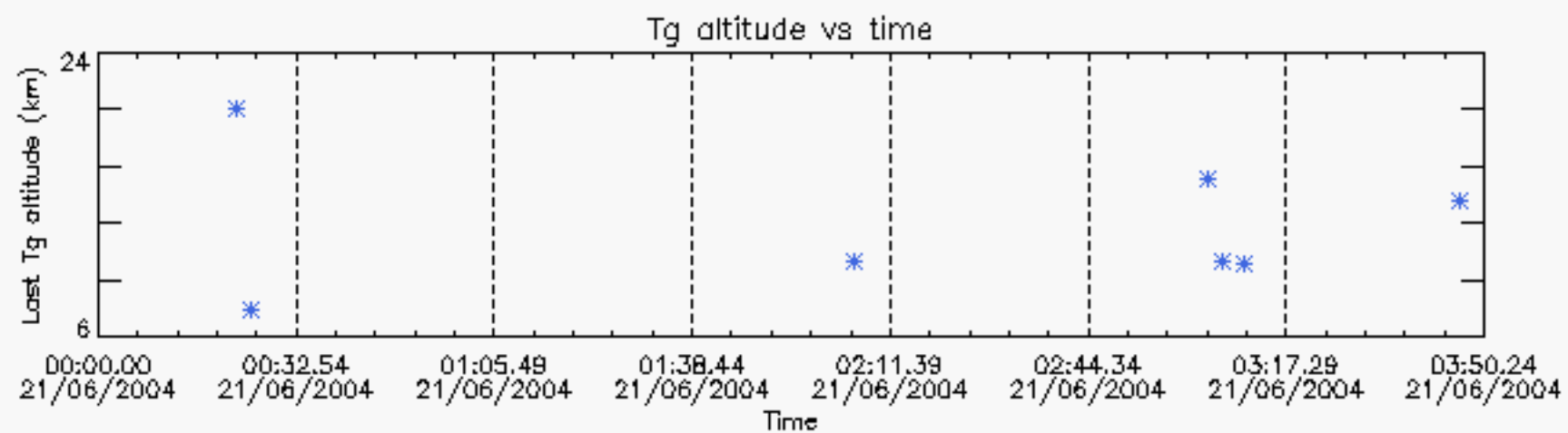
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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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	
7;	-3473.2;	01-JUN-2004	06:25:10;	Bright;	37.5;	180;	27Gam	Boo	;	3.04;	8000;	occ;	75;	0;	11783	
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11;	-2871.4;	01-JUN-2004	06:35:12;	Bright;	38.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	77;	0;	11783	
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16;	-1180.9;	01-JUN-2004	07:03:23;	Dark	;	56.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	113;	0;	11783
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27;	937.5;	01-JUN-2004	07:38:41;	Dark	;	41.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	83;	0;	11784
28;	1038.8;	01-JUN-2004	07:40:22;	Dark	;	46.5;	40;	The	Sco	;	1.86;	7100;	occ;	93;	0;	11784
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21;	197.4;	01-JUN-2004	09:06:57;	Dark	;	48.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	96;	0;	11785
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27;	1146.7;	01-JUN-2004	09:22:46;	Dark	;	47.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	95;	0;	11785
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10;	-3208.3;	23-JUN-2004	15:01:11;	Bright;	42.0;	130;	23Bet	Dra	;	2.80;	5800;	occ;	84;	0;	12103	
11;	-3088.2;	23-JUN-2004	15:03:12;	Bright;	42.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	84;	0;	12103	
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21;	-1097.9;	23-JUN-2004	15:36:22;	Dark	;	54.0;	94;	92Alp	Cet	;	2.53;	3100;	occ;	108;	0;	12103
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28;	758.6;	23-JUN-2004	16:07:18;	Dark	;	42.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	84;	0;	12104
29;	954.3;	23-JUN-2004	16:10:34;	Dark	;	41.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	83;	0;	12104
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