

GOMOS Daily Report 06-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	07JUN2004 03:43:17
Data source version	GOMOS/4.02
Start time of products	06-JUN-2004 (06JUN2004 00:00:00)
Stop time of products	07-JUN-2004 (07JUN2004 00:00:00)

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

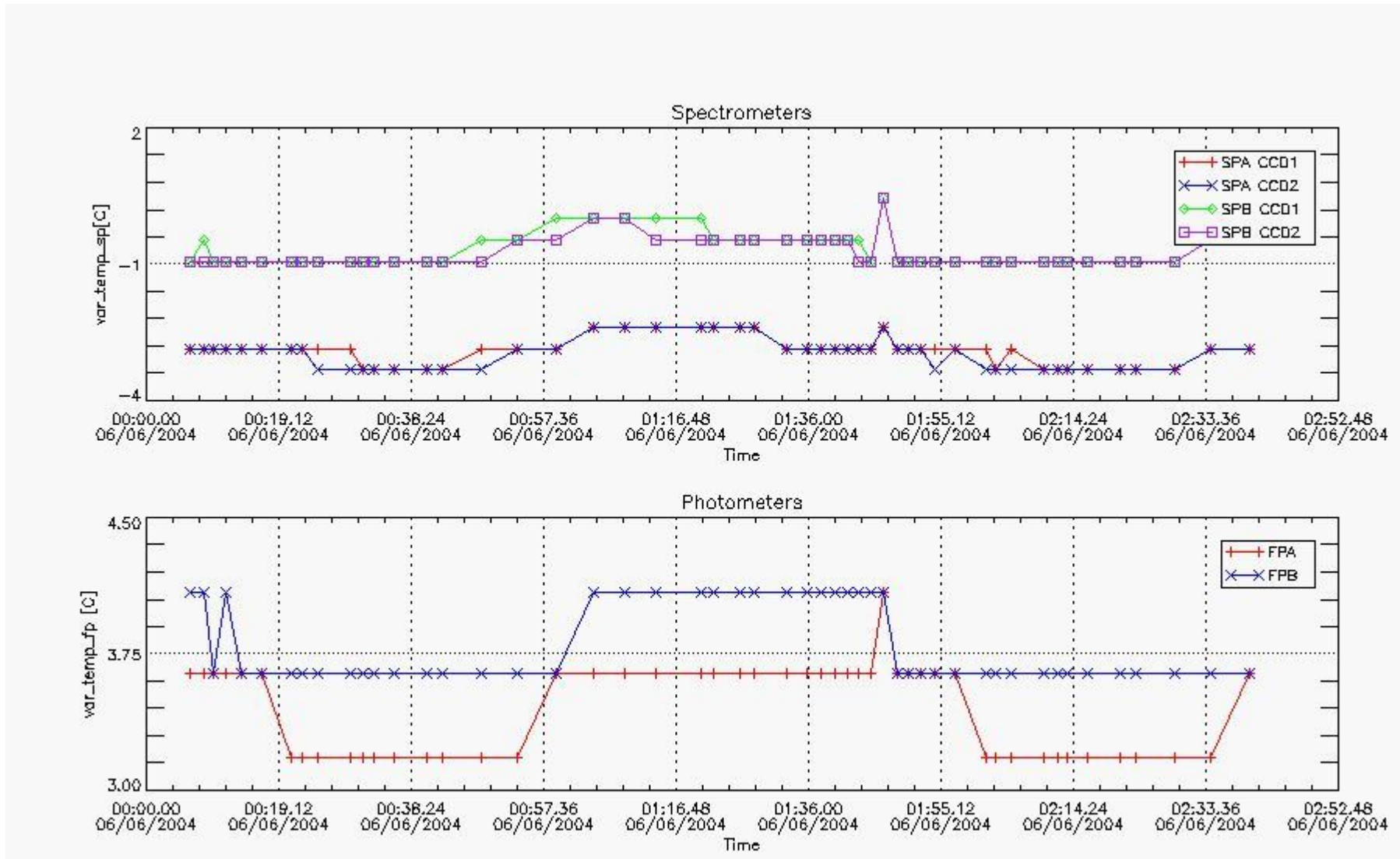
2. Summary of products arrived in PCF

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_1PNPDE20040606_000618_000000422027_00274_11851_0000.N1	06-JUN-2004 00:06:18	Bright	41.500	136	23Tau Sco	2.8220	30000.	83	11851	No
GOM_TRA_1PNPDE20040606_000820_000000412027_00274_11851_0001.N1	06-JUN-2004 00:08:20	Bright	41.000	80	7Del Sco	2.3160	30000.	82	11851	No
GOM_TRA_1PNPDE20040606_000947_000000452027_00274_11851_0002.N1	06-JUN-2004 00:09:47	Bright	44.500	86	35Eta Oph	2.4300	10200.	89	11851	No
GOM_TRA_1PNPDE20040606_001135_000000422027_00274_11851_0003.N1	06-JUN-2004 00:11:35	Bright	41.500	98	13Zet Oph	2.5710	30000.	83	11851	No
GOM_TRA_1PNPDE20040606_001344_000000392027_00274_11851_0004.N1	06-JUN-2004 00:13:44	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	11851	No
GOM_TRA_1PNPDE20040606_001644_000000382027_00274_11851_0005.N1	06-JUN-2004 00:16:44	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	11851	No
GOM_TRA_1PNPDE20040606_002103_000000432027_00274_11851_0006.N1	06-JUN-2004 00:21:03	Bright	42.500	3	16Alp Boo	-0.050000	4250.0	85	11851	No
GOM_TRA_1PNPDE20040606_002233_000000372027_00274_11851_0007.N1	06-JUN-2004 00:22:33	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	11851	No
GOM_TRA_1PNPDE20040606_002445_000000432027_00274_11851_0008.N1	06-JUN-2004 00:24:45	Bright	42.500	133	40Zet Her	2.8070	6000.0	85	11851	No
GOM_TRA_1PNPDE20040606_002934_000000452027_00274_11851_0009.N1	06-JUN-2004 00:29:34	Bright	45.000	39	85Eta UMa	1.8540	24000.	90	11851	No
GOM_TRA_1PNPDE20040606_003126_000000382027_00274_11851_0010.N1	06-JUN-2004 00:31:26	Bright	38.000	55	79Zet UMa	2.0600	10200.	76	11851	No
GOM_TRA_1PNPDE20040606_003254_000000362027_00274_11851_0011.N1	06-JUN-2004 00:32:54	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	11851	No
GOM_TRA_1PNPDE20040606_003553_000000402027_00274_11851_0012.N1	06-JUN-2004 00:35:53	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	11851	No
GOM_TRA_1PNPDE20040606_004036_000000342027_00274_11851_0013.N1	06-JUN-2004 00:40:36	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	11851	No
GOM_TRA_1PNPDE20040606_004252_000000492027_00274_11851_0014.N1	06-JUN-2004 00:42:52	Bright	48.500	89	5Alp Cep	2.4510	8000.0	97	11851	No
GOM_TRA_1PNPDE20040606_004830_000000402027_00274_11851_0015.N1	06-JUN-2004 00:48:30	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	11851	No
GOM_TRA_1PNPDE20040606_005338_000001872027_00274_11851_0016.N1	06-JUN-2004 00:53:38	Twilight	187.00	92	53Eps Cyg	2.5000	4500.0	374	11851	No
GOM_TRA_1PNPDE20040606_005921_000000622027_00274_11851_0017.N1	06-JUN-2004 00:59:21	Twilight	62.000	58	21Alp And	2.0730	11000.	124	11851	No
GOM_TRA_1PNPDE20040606_010445_000000572027_00274_11851_0018.N1	06-JUN-2004 01:04:45	Dark	56.500	140	88Gam Peg	2.8340	26000.	113	11851	No
GOM_TRA_1PNPDE20040606_010926_000001182027_00274_11851_0019.N1	06-JUN-2004 01:09:26	Dark	118.00	90	54Alp Peg	2.4870	11000.	236	11851	No
GOM_TRA_1PNPDE20040606_011352_000000522027_00274_11851_0020.N1	06-JUN-2004 01:13:52	Dark	52.000	52	16Bet Cet	2.0370	4500.0	104	11851	No
GOM_TRA_1PNPDE20040606_012026_000000502027_00274_11851_0021.N1	06-JUN-2004 01:20:26	Dark	50.000	84	Alp Phe	2.3970	4500.0	100	11851	No
GOM_TRA_1PNPDE20040606_012207_000000452027_00274_11851_0022.N1	06-JUN-2004 01:22:07	Dark	44.500	9	Alp Eri	0.45300	24000.	89	11851	No
GOM_TRA_1PNPDE20040606_012607_000000572027_00275_11852_0023.N1	06-JUN-2004 01:26:07	Dark	57.000	63	Bet Gru	2.1500	2800.0	114	11852	No
GOM_TRA_1PNPDE20040606_012805_000000532027_00275_11852_0024.N1	06-JUN-2004 01:28:05	Dark	53.000	31	Alp Gru	1.7340	15200.	106	11852	No
GOM_TRA_1PNPDE20040606_013244_000000472027_00275_11852_0025.N1	06-JUN-2004 01:32:44	Dark	46.500	45	Alp Pav	1.9400	26000.	93	11852	No
GOM_TRA_1PNPDE20040606_013546_000000512027_00275_11852_0026.N1	06-JUN-2004 01:35:46	Twilight	51.000	43	Alp TrA	1.9100	4250.0	102	11852	No
GOM_TRA_1PNPDE20040606_013749_000000392027_00275_11852_0027.N1	06-JUN-2004 01:37:49	Twilight	38.500	134	Bet TrA	2.8100	6600.0	77	11852	No
GOM_TRA_1PNPDE20040606_013950_000000422027_00275_11852_0028.N1	06-JUN-2004 01:39:50	Bright	41.500	147	Alp Ara	2.8770	26000.	83	11852	No
GOM_TRA_1PNPDE20040606_014132_000000492027_00275_11852_0029.N1	06-JUN-2004 01:41:32	Bright	48.500	40	The Sco	1.8590	7100.0	97	11852	No
GOM_TRA_1PNPDE20040606_014318_000000522027_00275_11852_0030.N1	06-JUN-2004 01:43:18	Bright	52.000	25	35Lam Sco	1.6200	28000.	104	11852	No
GOM_TRA_1PNPDE20040606_014457_000000482027_00275_11852_0031.N1	06-JUN-2004 01:44:57	Bright	47.500	75	26Eps Sco	2.2910	4250.0	95	11852	No
GOM_TRA_1PNPDE20040606_014655_000000552027_00275_11852_0000.N1	06-JUN-2004 01:46:55	Bright	55.000	136	23Tau Sco	2.8220	30000.	110	11852	Yes
GOM_TRA_1PNPDE20040606_014855_000000422027_00275_11852_0001.N1	06-JUN-2004 01:48:55	Bright	41.500	80	7Del Sco	2.3160	30000.	83	11852	No
GOM_TRA_1PNPDE20040606_015023_000000452027_00275_11852_0002.N1	06-JUN-2004 01:50:23	Bright	45.000	86	35Eta Oph	2.4300	10200.	90	11852	No
GOM_TRA_1PNPDE20040606_015209_000000442027_00275_11852_0003.N1	06-JUN-2004 01:52:09	Bright	44.000	98	13Zet Oph	2.5710	30000.	88	11852	No
GOM_TRA_1PNPDE20040606_015419_000000412027_00275_11852_0004.N1	06-JUN-2004 01:54:19	Bright	40.500	120	1Del Oph	2.7340	3200.0	81	11852	No
GOM_TRA_1PNPDE20040606_015719_000000392027_00275_11852_0005.N1	06-JUN-2004 01:57:19	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	11852	No
GOM_TRA_1PNPDE20040606_020140_000000412027_00275_11852_0006.N1	06-JUN-2004 02:01:40	Bright	41.000	3	16Alp Boo	-0.050000	4250.0	82	11852	No
GOM_TRA_1PNPDE20040606_020308_000000402027_00275_11852_0007.N1	06-JUN-2004 02:03:08	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	11852	No
GOM_TRA_1PNPDE20040606_020520_000000442027_00275_11852_0008.N1	06-JUN-2004 02:05:20	Bright	43.500	133	40Zet Her	2.8070	6000.0	87	11852	No
GOM_TRA_1PNPDE20040606_021010_000000372027_00275_11852_0009.N1	06-JUN-2004 02:10:10	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	11852	No
GOM_TRA_1PNPDE20040606_021202_000000462027_00275_11852_0010.N1	06-JUN-2004 02:12:02	Bright	45.500	55	79Zet UMa	2.0600	10200.	91	11852	No
GOM_TRA_1PNPDE20040606_021330_000000382027_00275_11852_0011.N1	06-JUN-2004 02:13:30	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	11852	No
GOM_TRA_1PNPDE20040606_021627_000000402027_00275_11852_0012.N1	06-JUN-2004 02:16:27	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	11852	No
GOM_TRA_1PNPDE20040606_022111_000000382027_00275_11852_0013.N1	06-JUN-2004 02:21:11	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	11852	No
GOM_TRA_1PNPDE20040606_022327_000000482027_00275_11852_0014.N1	06-JUN-2004 02:23:27	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	11852	No
GOM_TRA_1PNPDE20040606_022905_000000422027_00275_11852_0015.N1	06-JUN-2004 02:29:05	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	11852	No
GOM_TRA_1PNPDE20040606_023411_000001872027_00275_11852_0016.N1	06-JUN-2004 02:34:11	Twilight	187.00	92	53Eps Cyg	2.5000	4500.0	374	11852	No

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



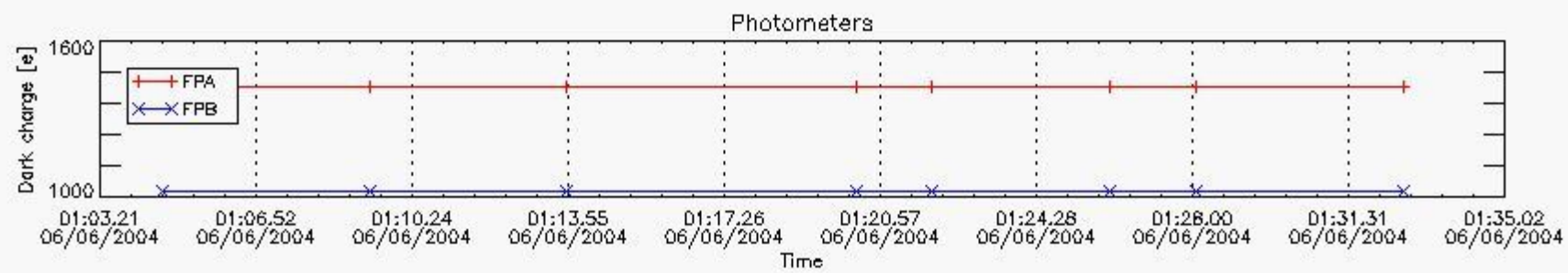
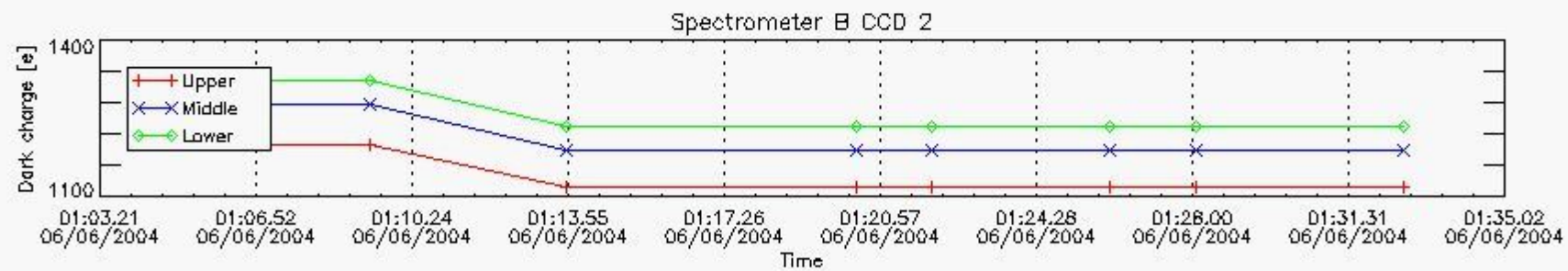
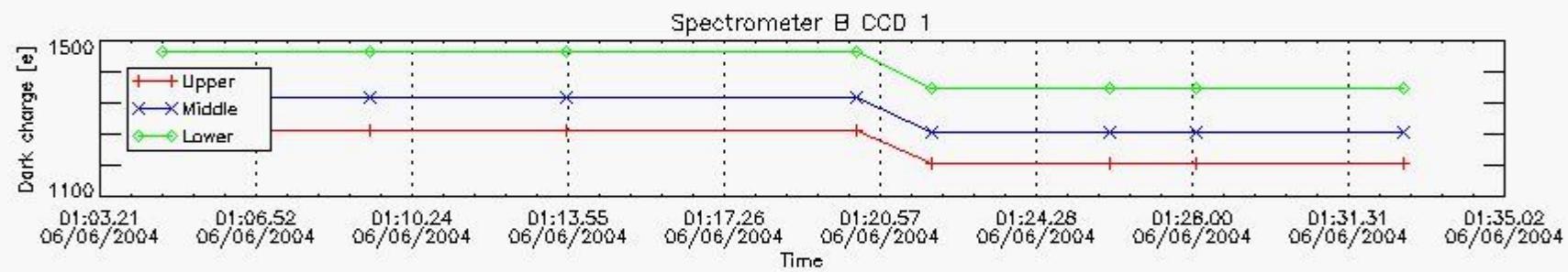
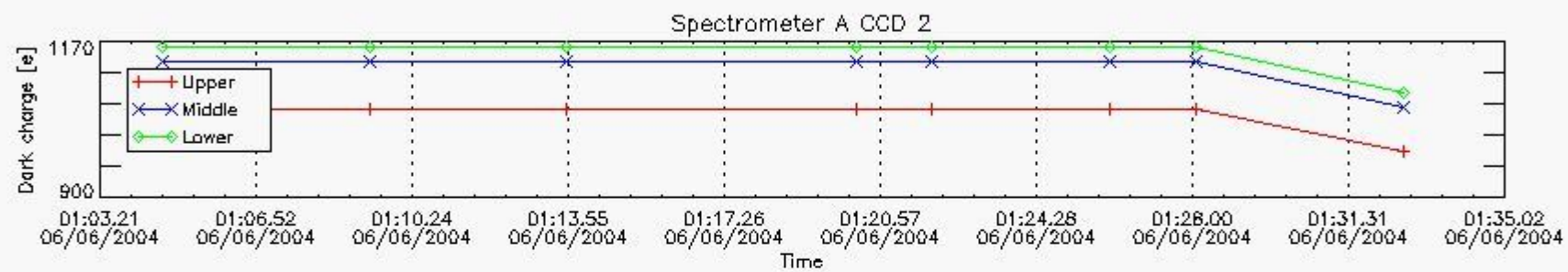
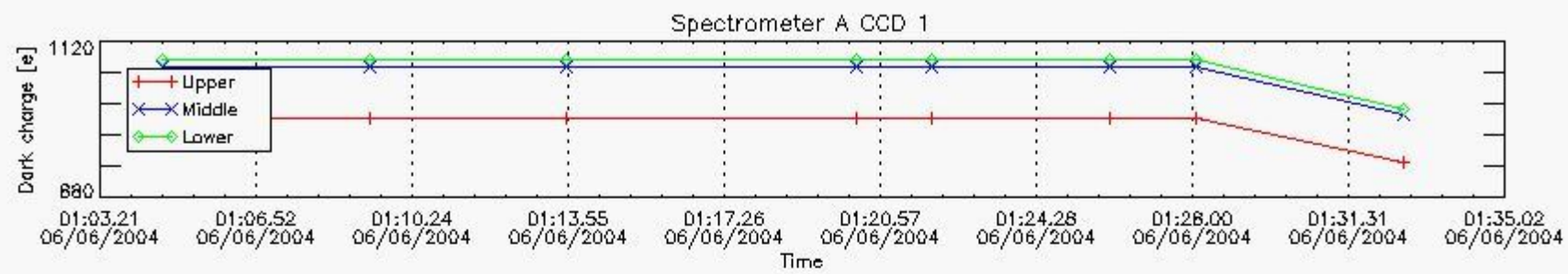
4. Overview of dark signal processing per product

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



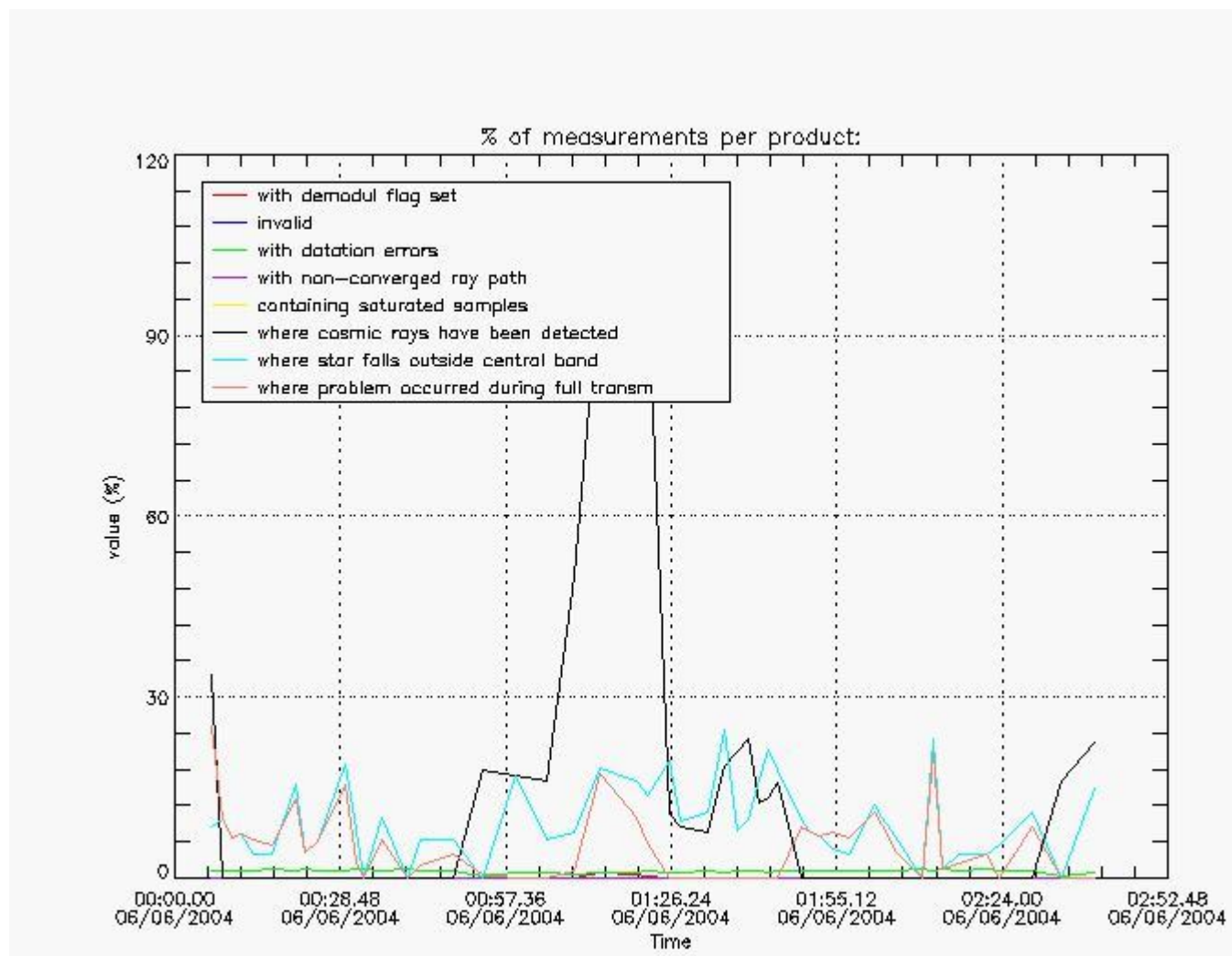
5. Demodulation flag and quality information monitoring

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:

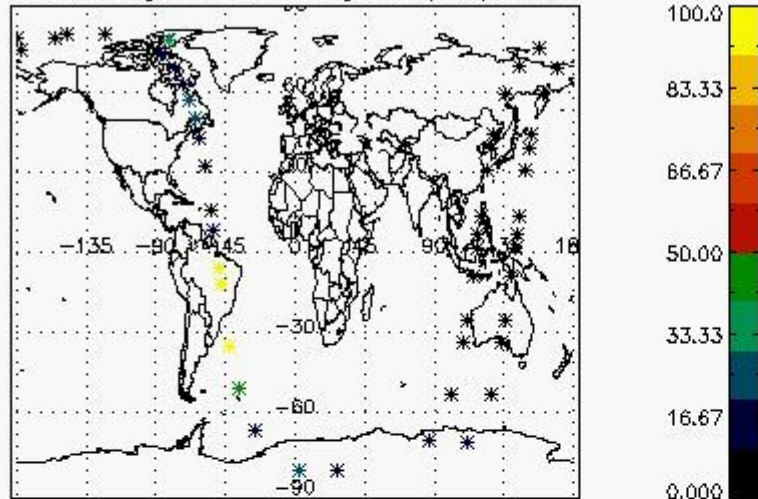
At least one measurement with demodulation flag set:	8.16327 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

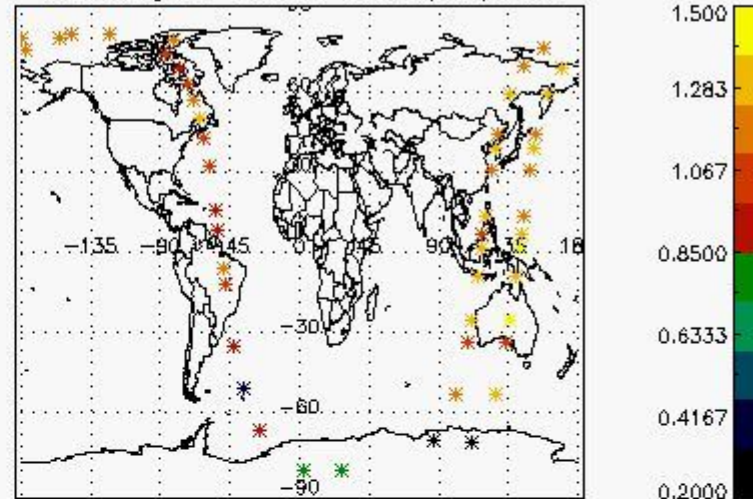


5.3 Plot quality information per product (world map)

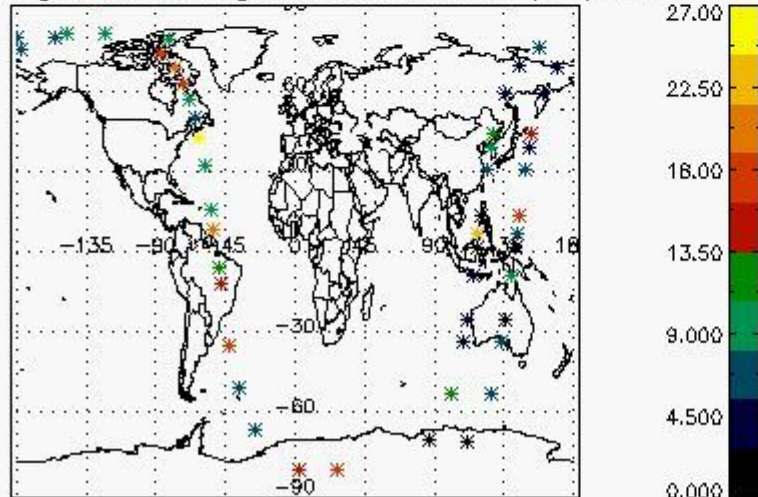
Percentage of cosmic ray hits per profile



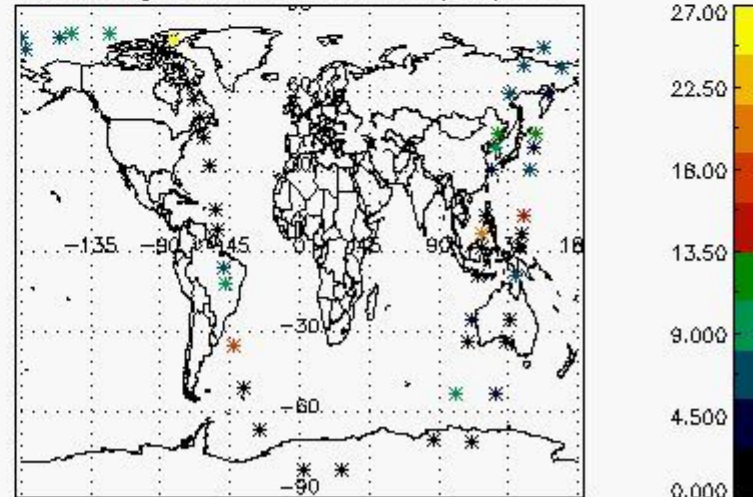
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



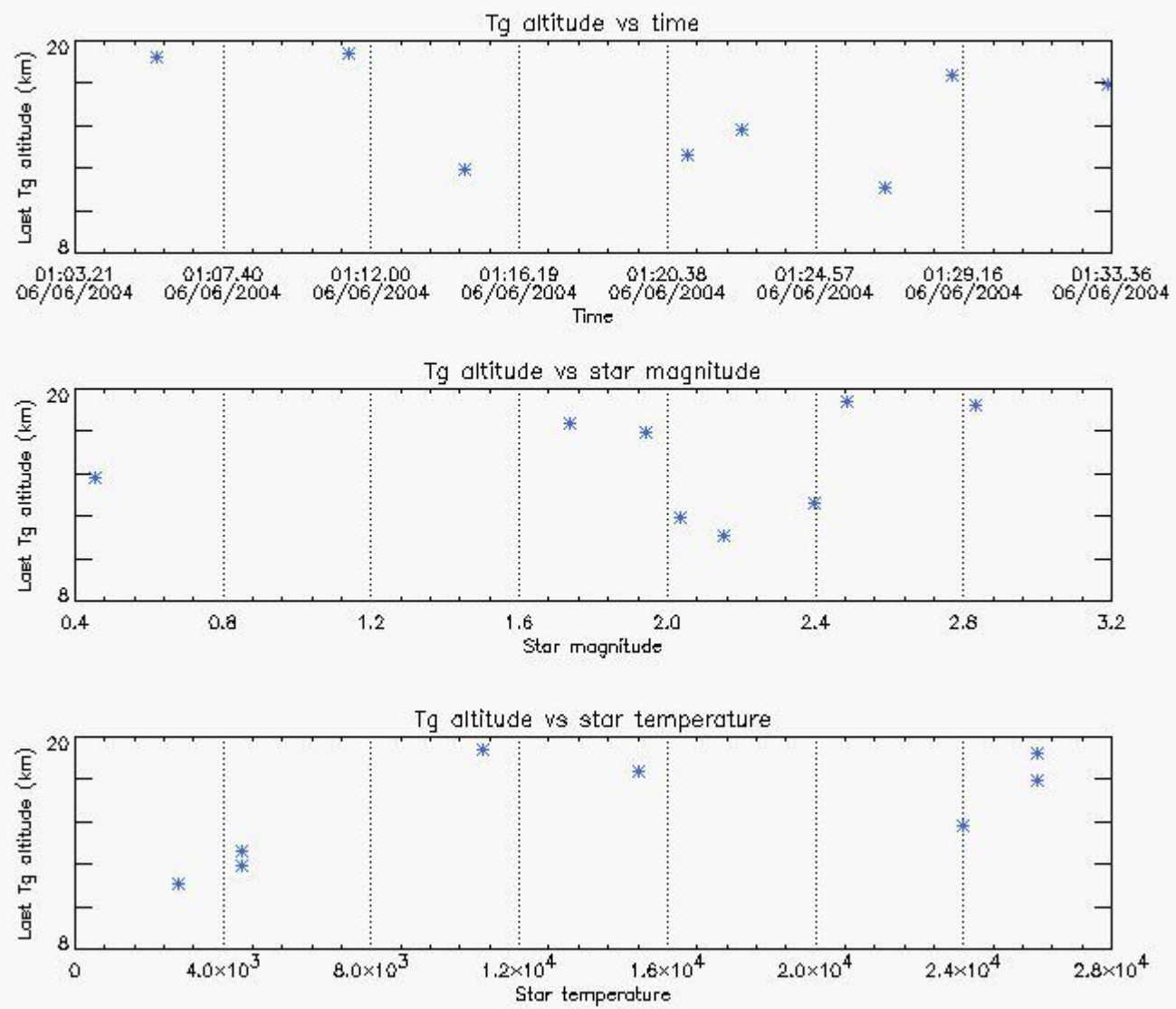
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.855	19.479	43.164
St. deviation:	3.0166	4.5670	46.236
Maximum:	19.260	30.173	102.97
Minimum:	11.664	10.401	7.7329
Number of data:	8.0000	35.000	6.0000

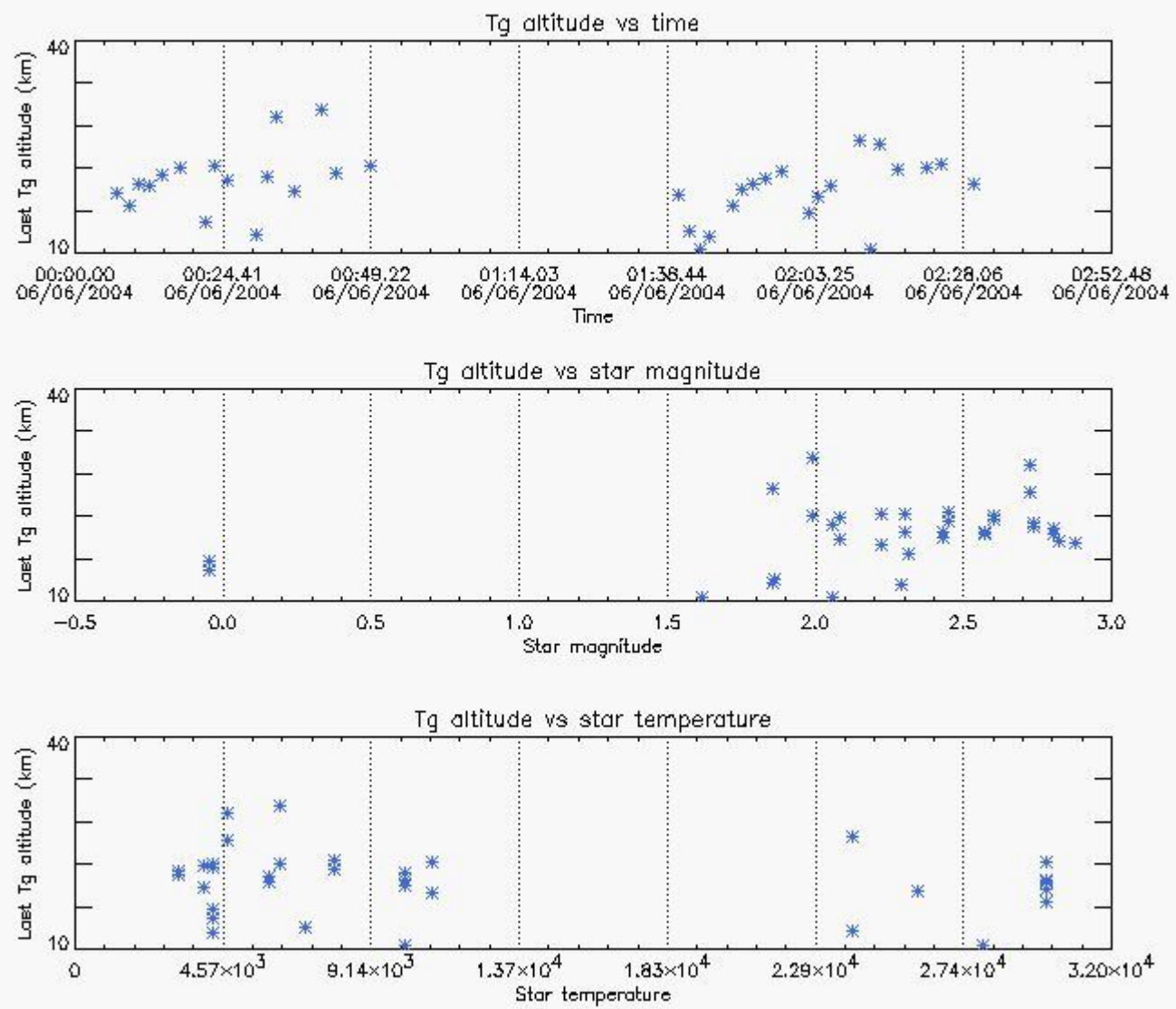
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



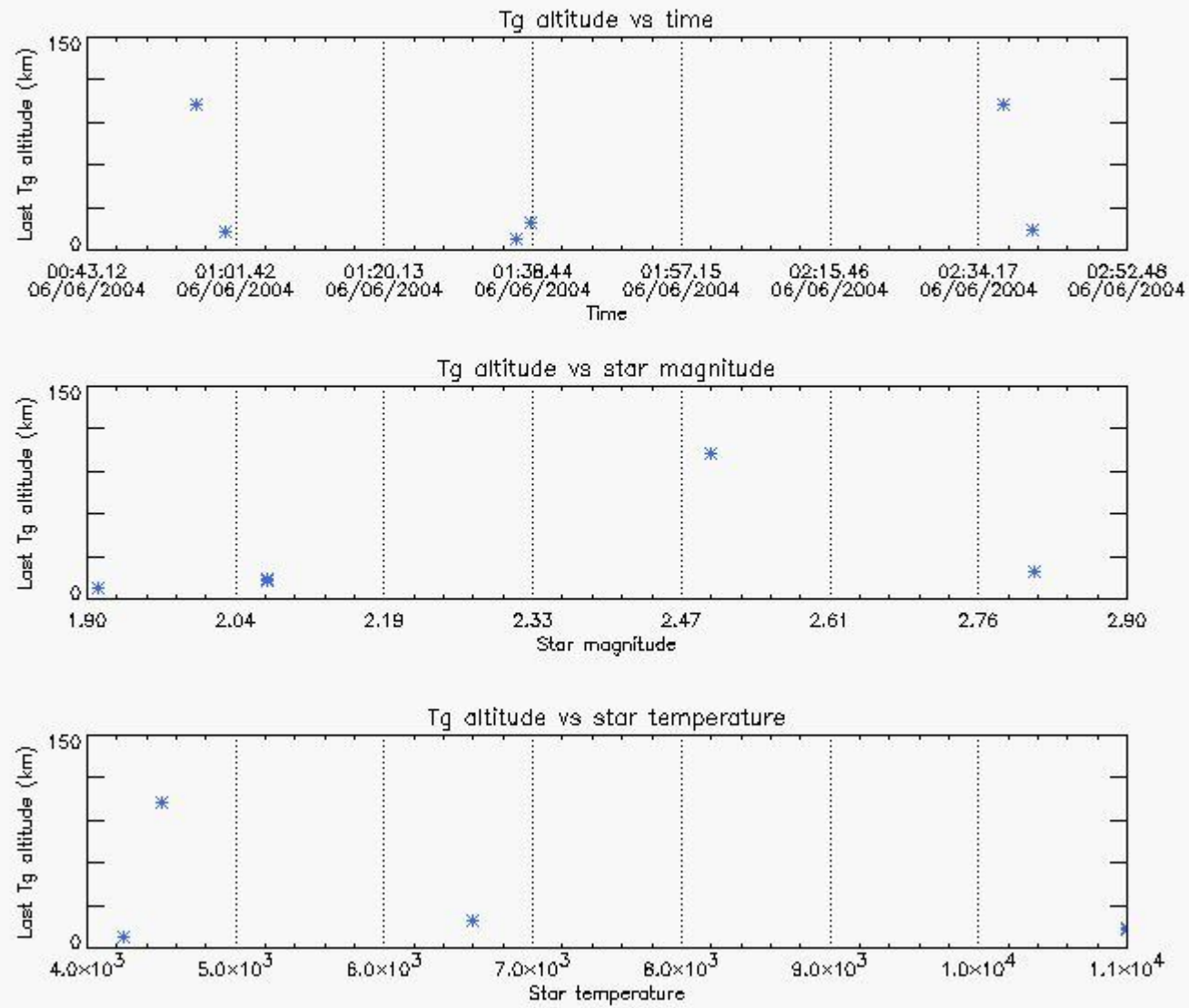
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

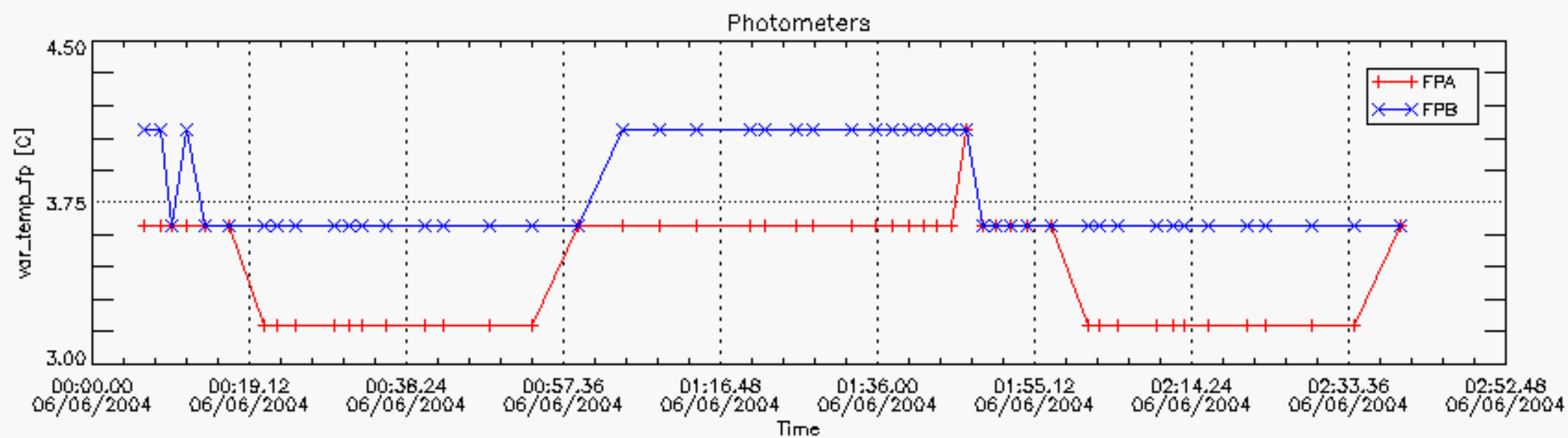
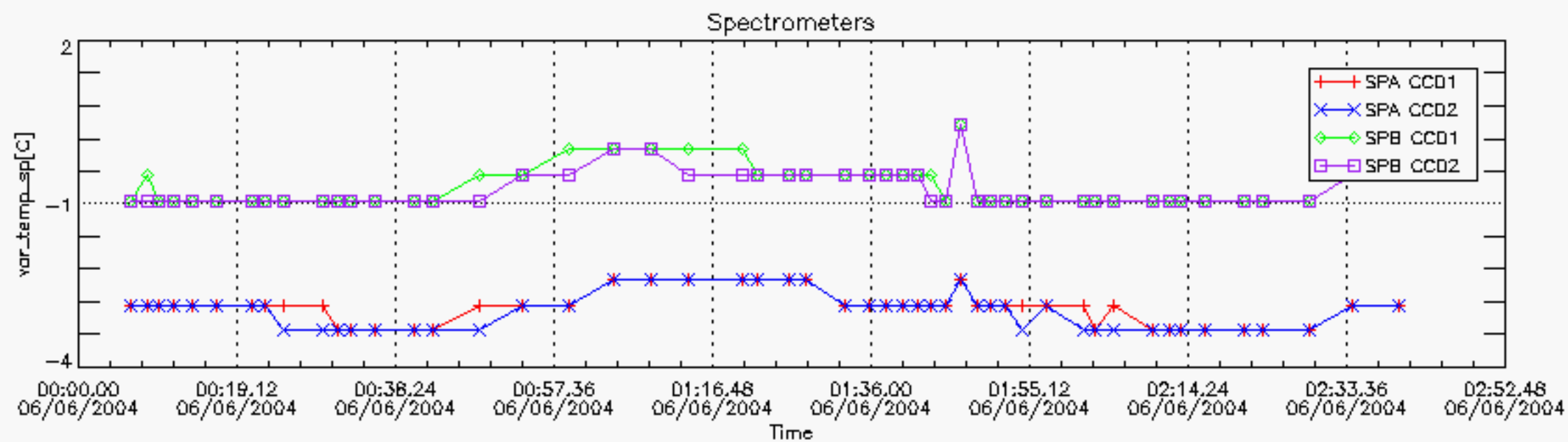
Tangent altitude at which the star is lost

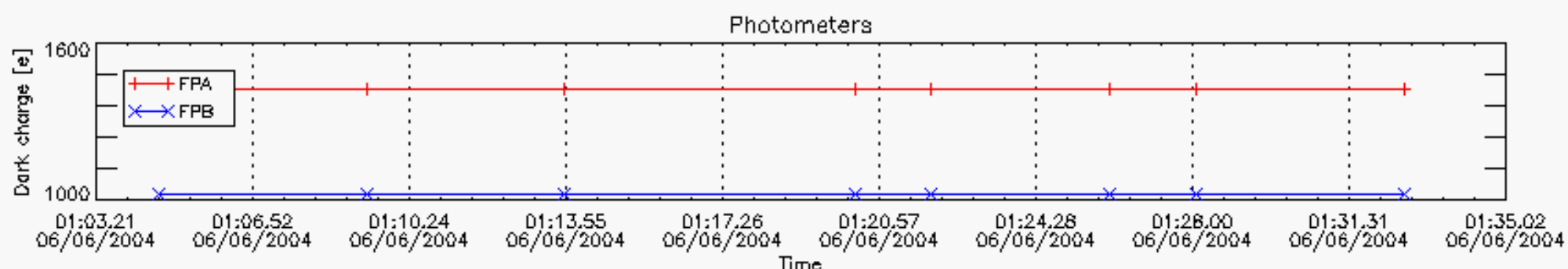
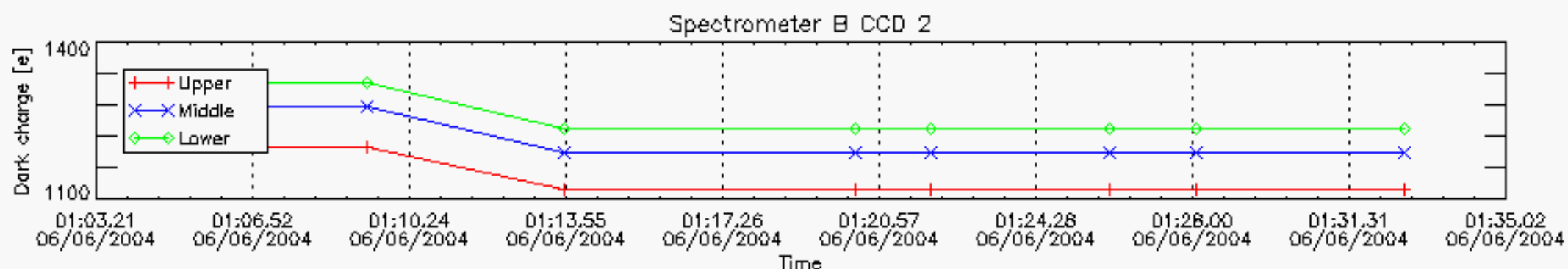
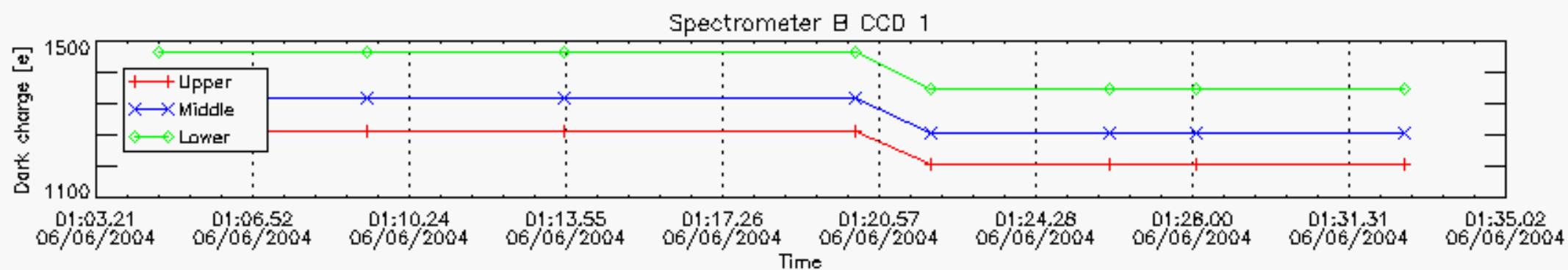
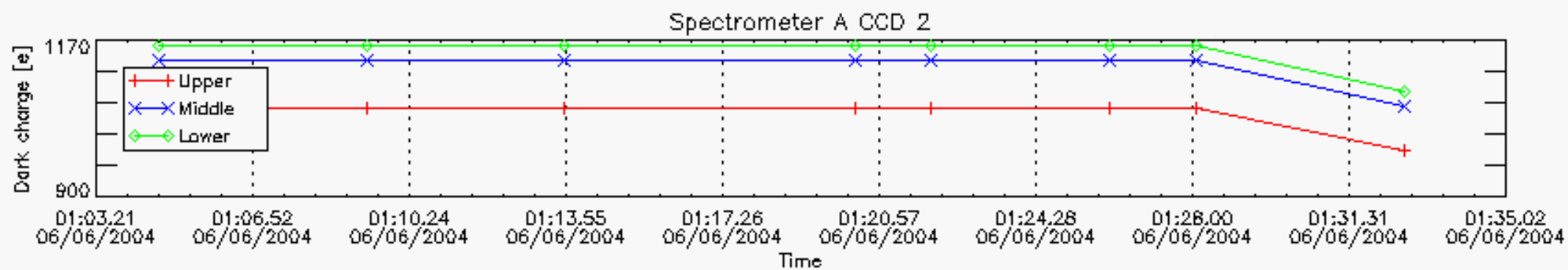
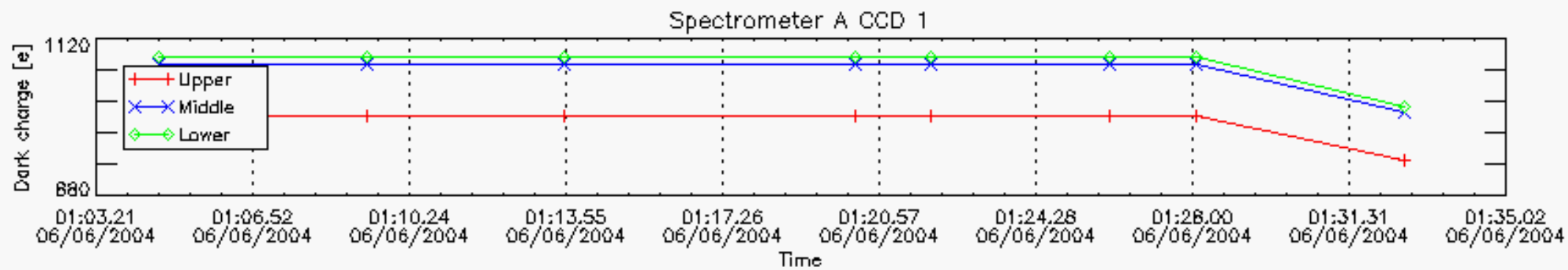


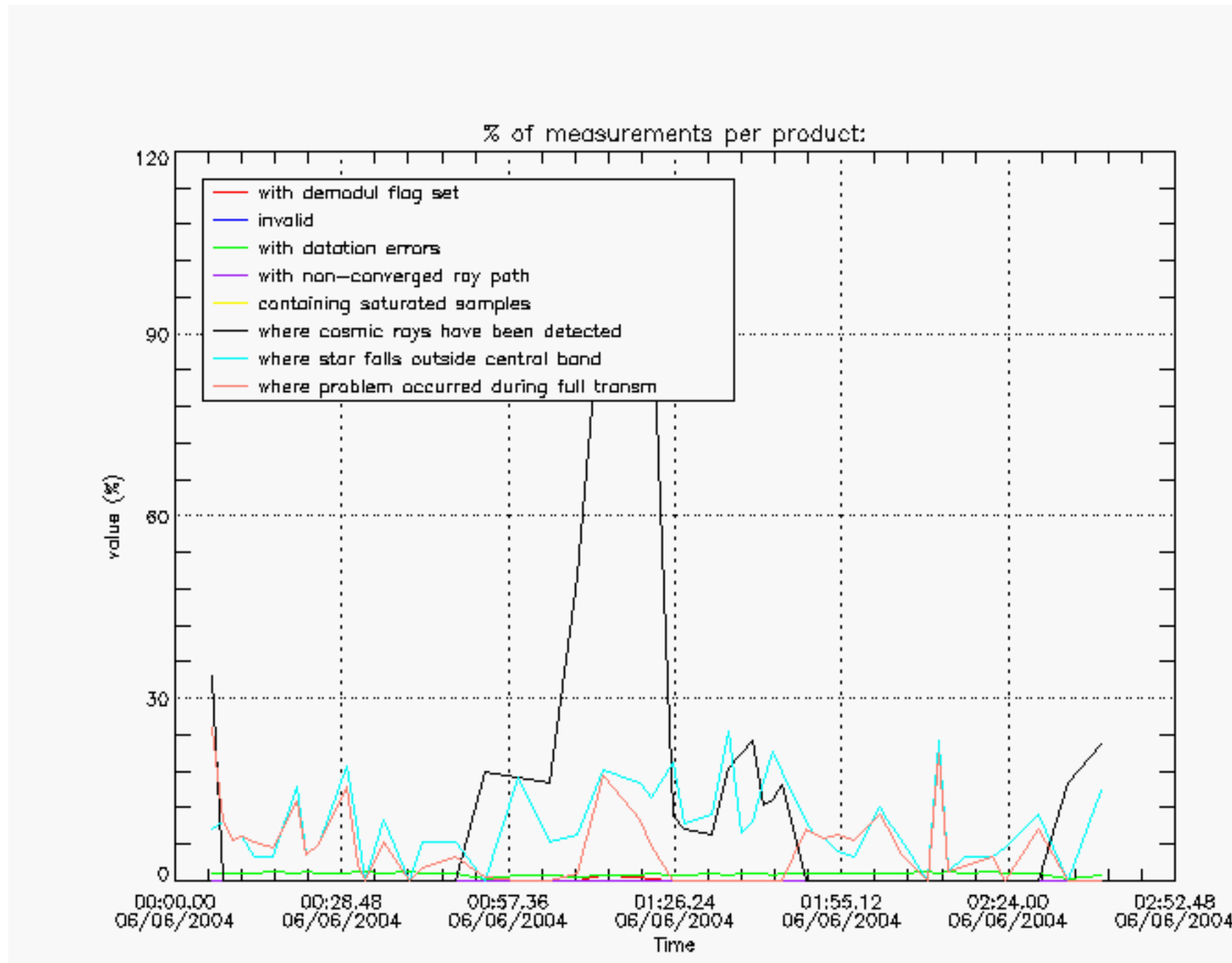
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

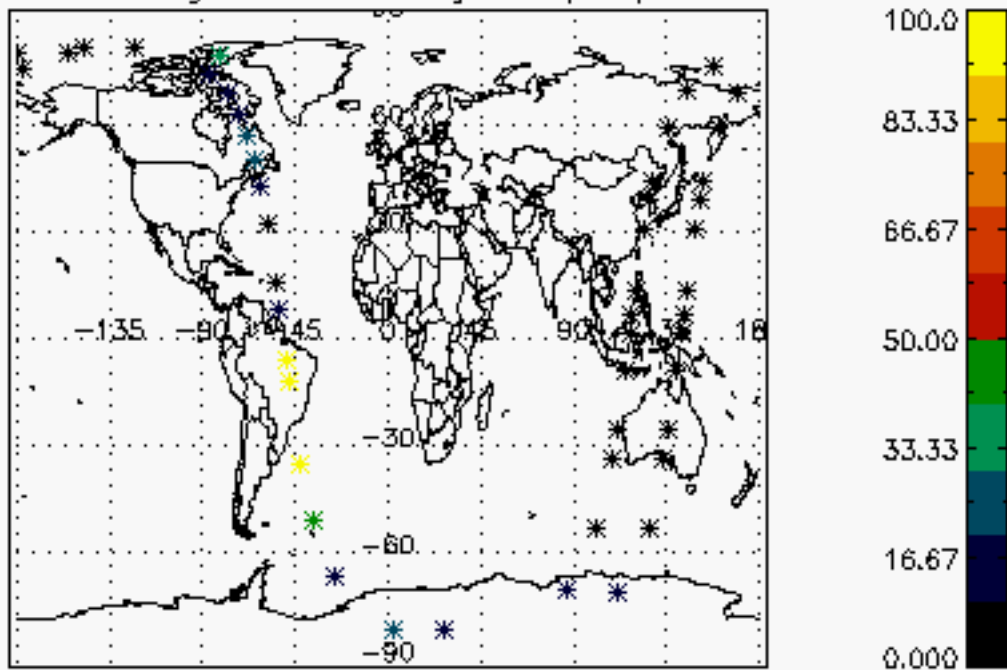
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.0	1448.9	1461.4	1446.7
St. deviation:	5.0610	6.5701	6.7237	7.7423
Maximum:	1508.0	1500.0	1499.0	1489.0
Minimum:	1443.0	1426.0	1434.0	1422.0
Number of data:	13000.	13000.	39100.	39100.



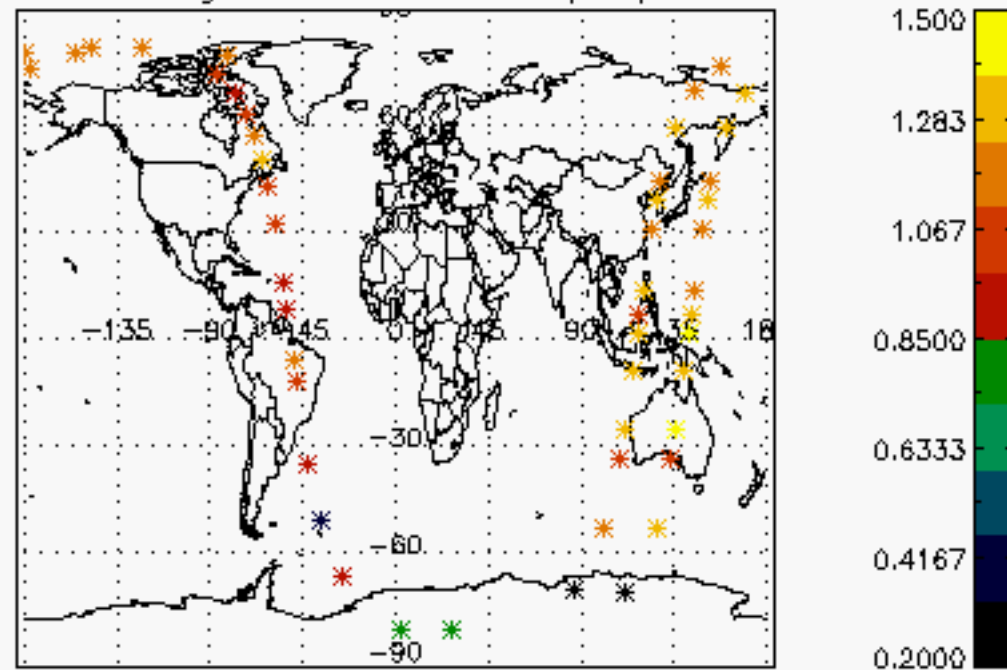




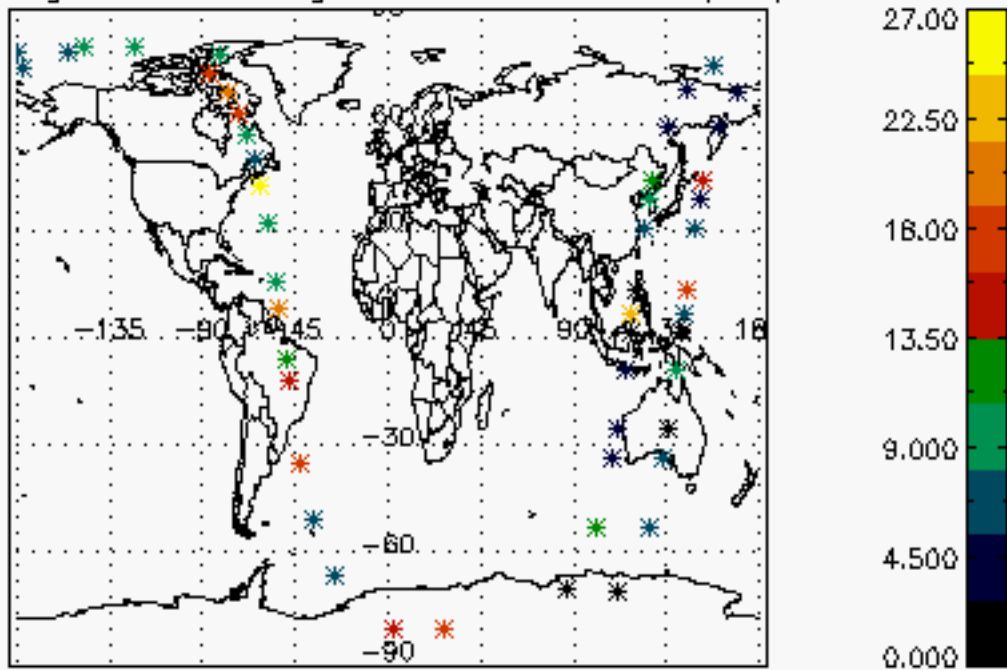
Percentage of cosmic ray hits per profile



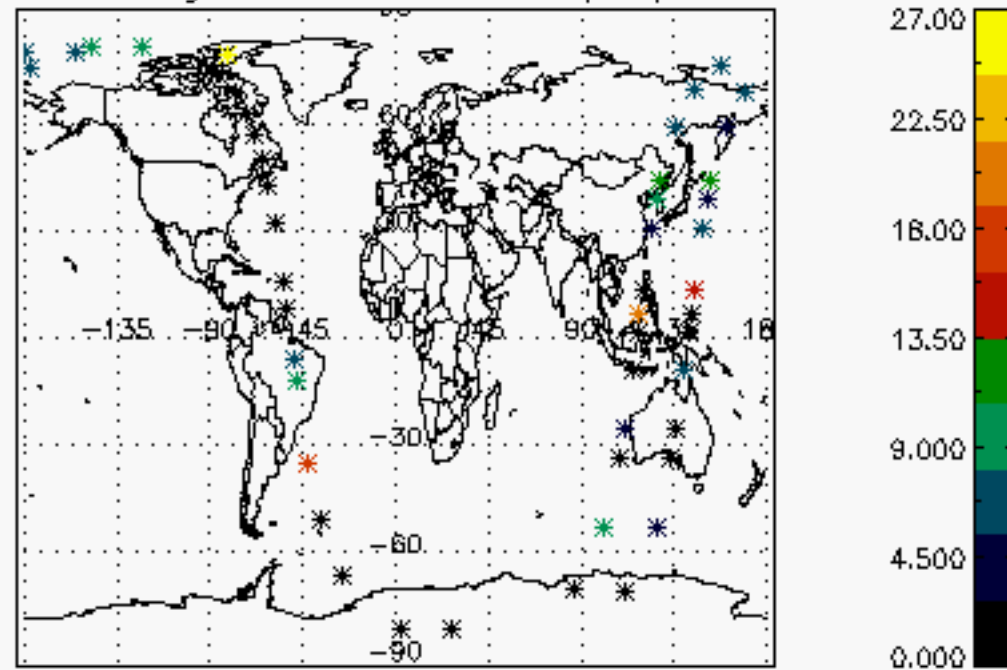
Percentage of datation errors per profile



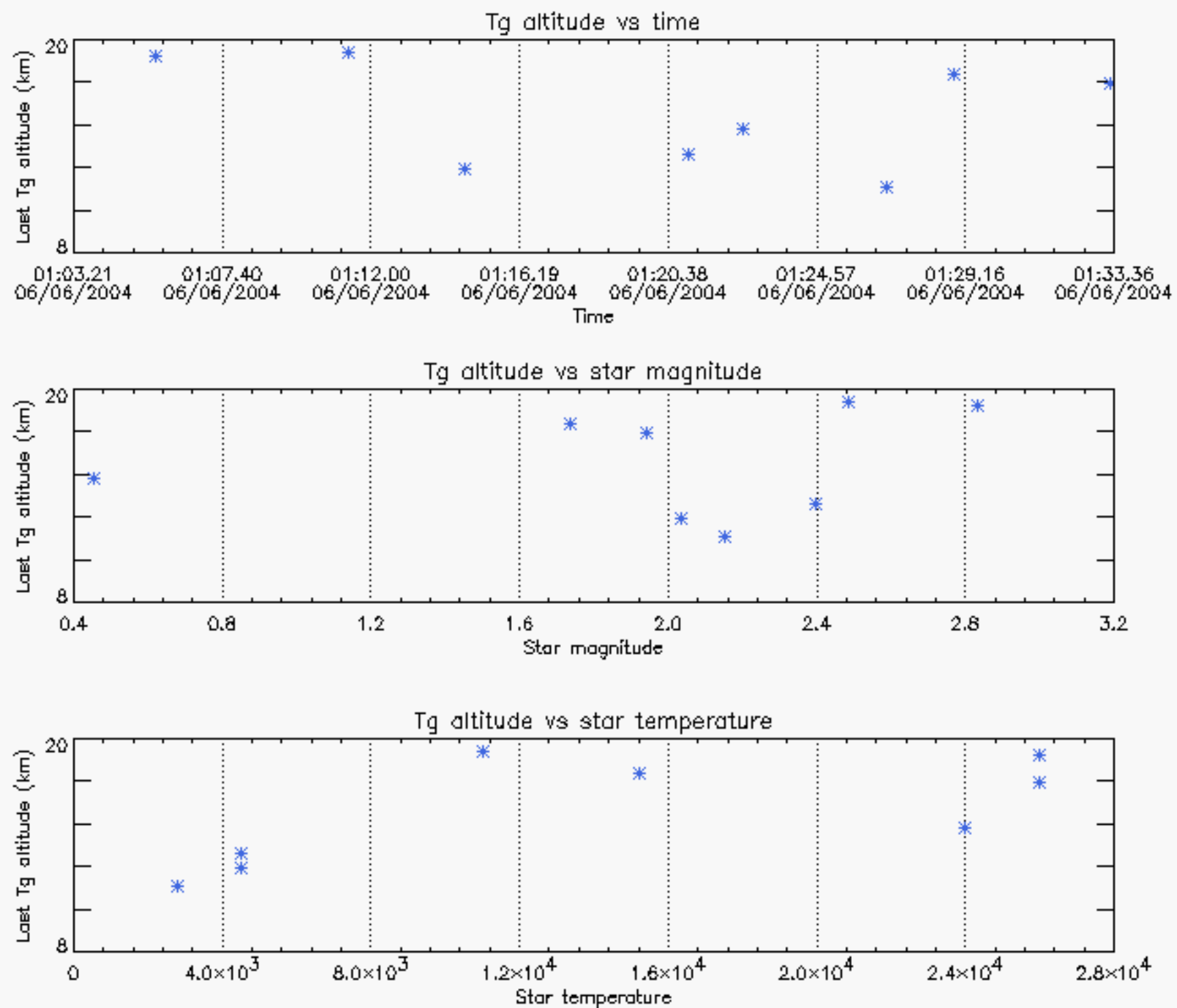
Percentage of star falling outside central band per profile



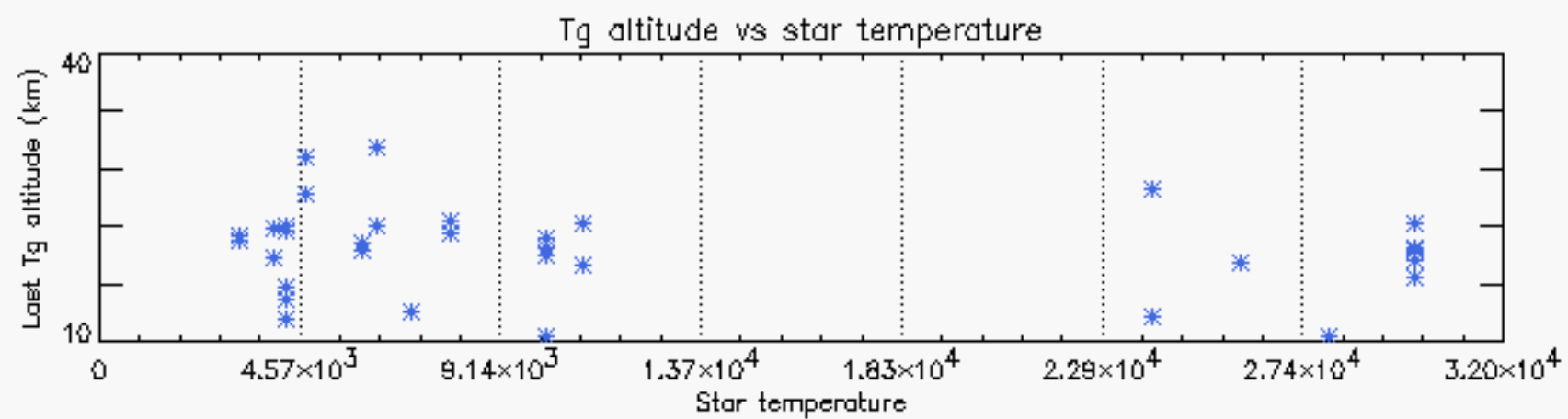
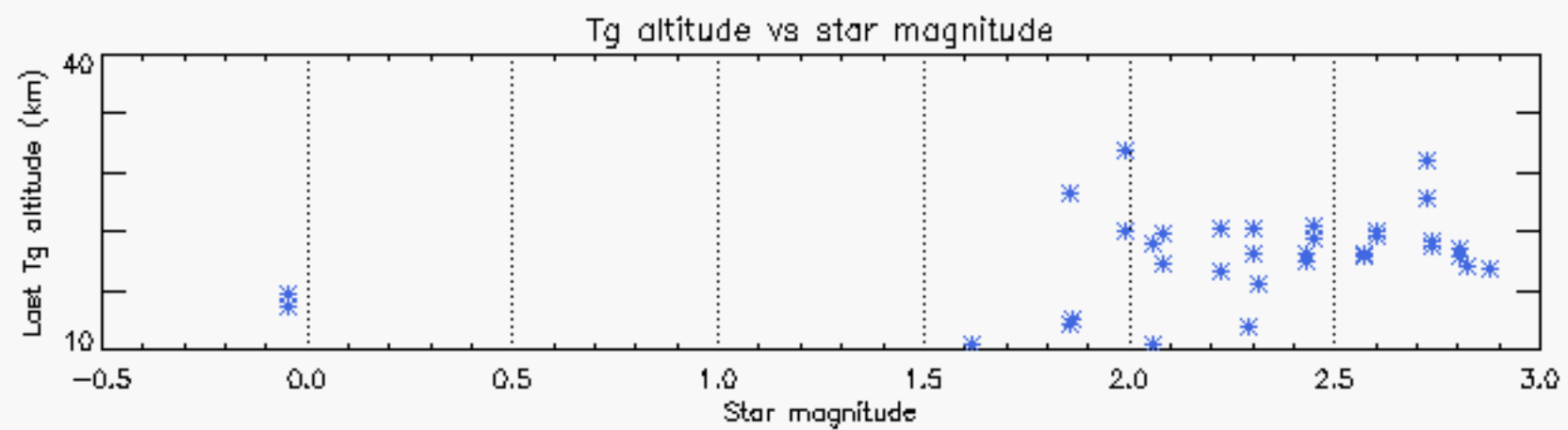
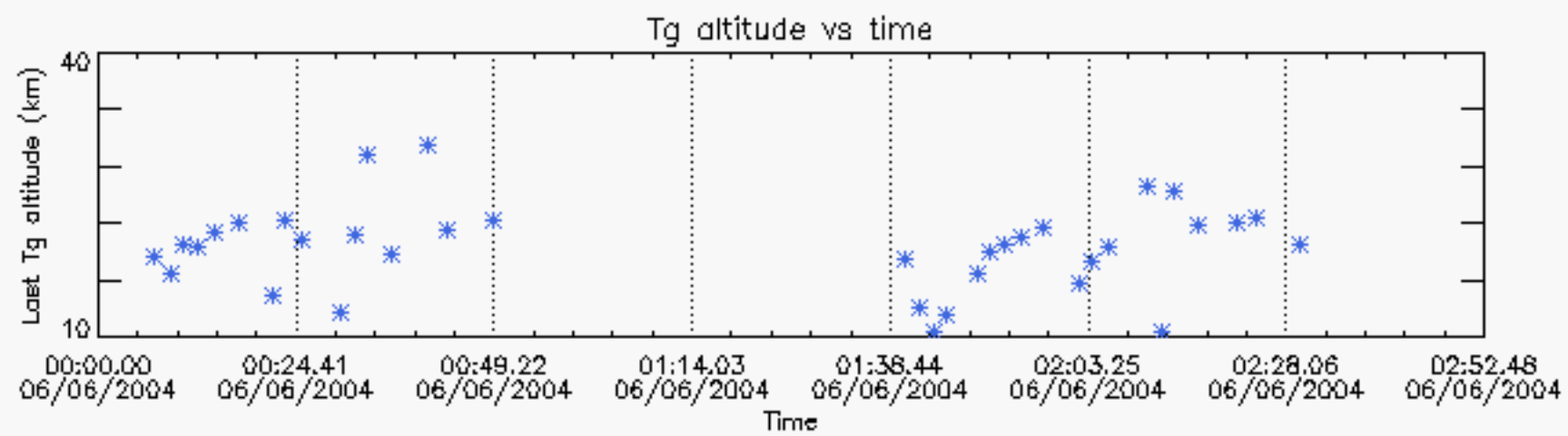
Percentage of saturation errors per profile



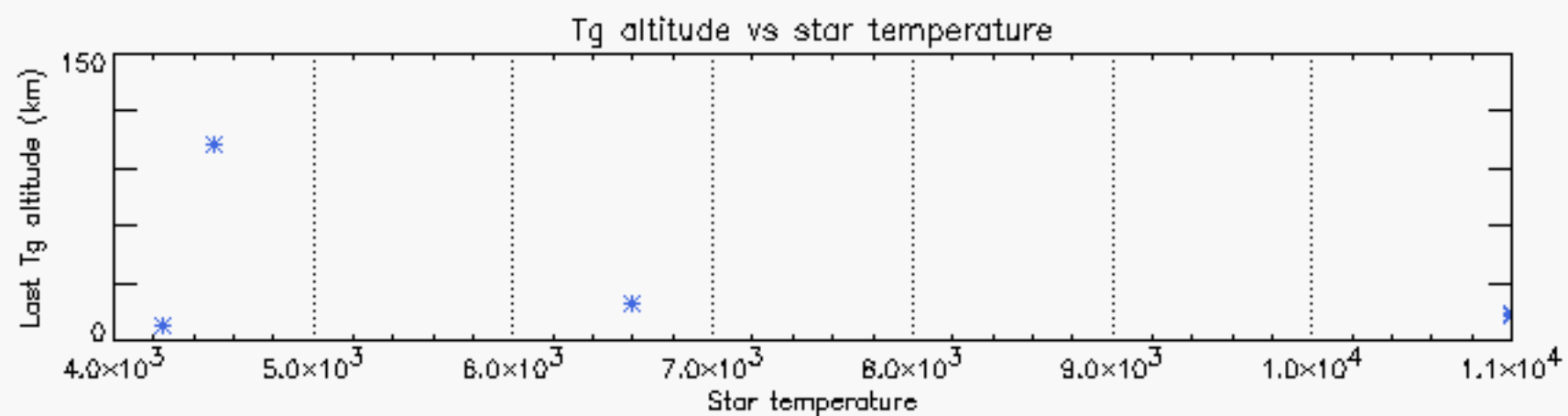
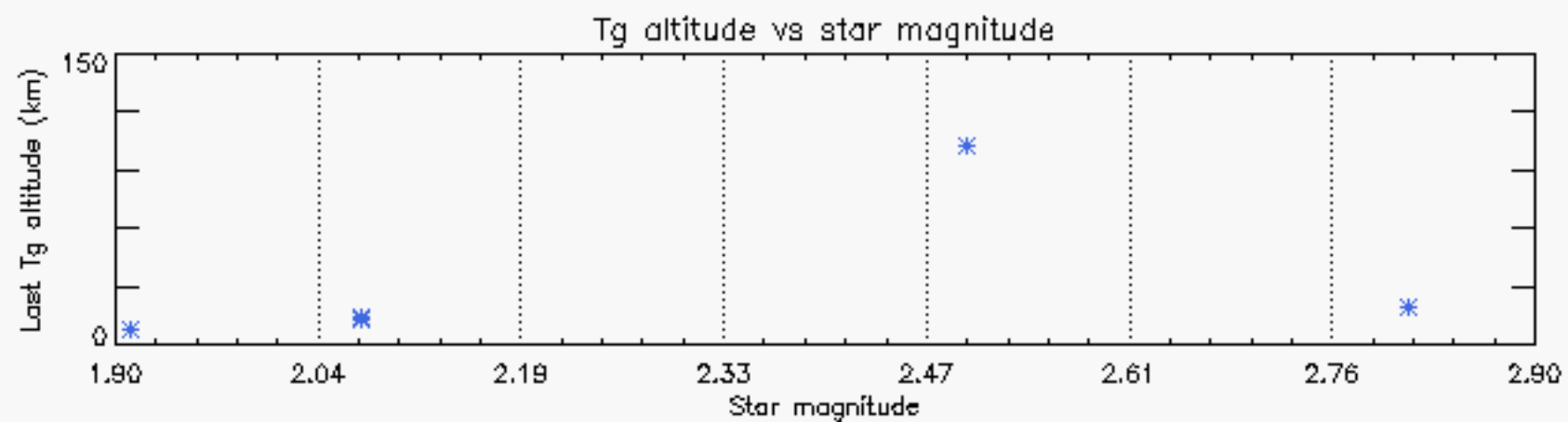
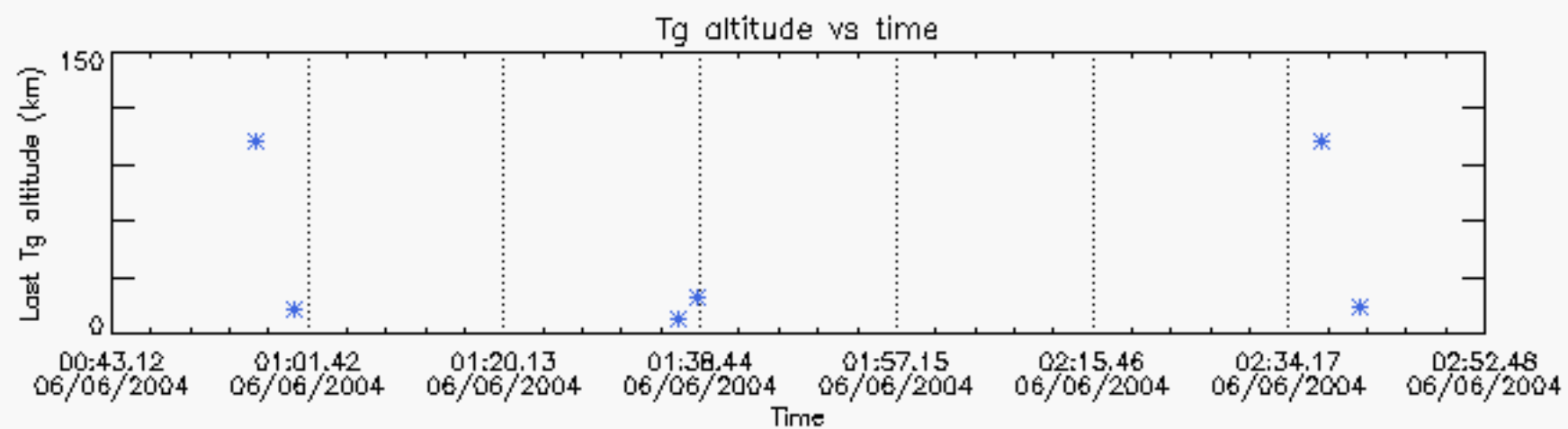
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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23;	-237.6;	01-JUN-2004	12:20:54;	Dark	; 45.5;	84;	Alp Phe	; 2.40;	4500;occ;	91;	0;11786
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