

GOMOS Daily Report 07-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	08JUN2004 03:44:59
Data source version	GOMOS/4.02
Start time of products	07-JUN-2004 (07JUN2004 00:00:00)
Stop time of products	08-JUN-2004 (08JUN2004 00:00:00)

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

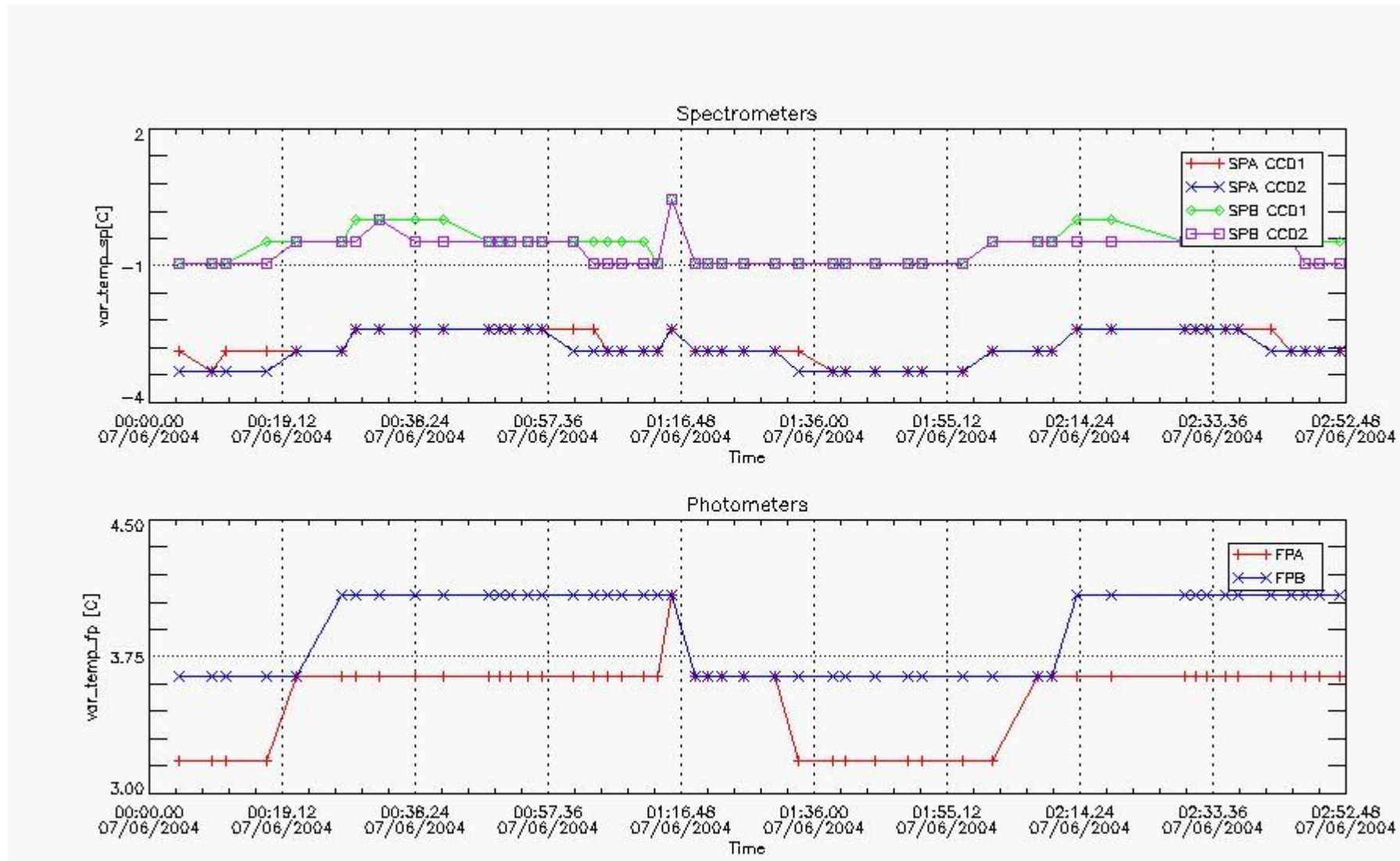
2. Summary of products arrived in PCF

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_1PNPDE20040607_000418_000000392027_00288_11865_0010.N1	07-JUN-2004 00:04:18	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	11865	No
GOM_TRA_1PNPDE20040607_000859_000000352027_00288_11865_0011.N1	07-JUN-2004 00:08:59	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	11865	No
GOM_TRA_1PNPDE20040607_001106_000000502027_00288_11865_0012.N1	07-JUN-2004 00:11:06	Bright	49.500	89	5Alp Cep	2.4510	8000.0	99	11865	No
GOM_TRA_1PNPDE20040607_001651_000000572027_00288_11865_0013.N1	07-JUN-2004 00:16:51	Bright	57.000	76	27Gam Cas	2.3000	30000.	114	11865	No
GOM_TRA_1PNPDE20040607_002109_000002042027_00288_11865_0014.N1	07-JUN-2004 00:21:09	Twilight	204.00	92	53Eps Cyg	2.5000	4500.0	408	11865	No
GOM_TRA_1PNPDE20040607_002745_000000652027_00288_11865_0015.N1	07-JUN-2004 00:27:45	Twilight	64.500	58	21Alp And	2.0730	11000.	129	11865	No
GOM_TRA_1PNPDE20040607_002945_000001172027_00288_11865_0016.N1	07-JUN-2004 00:29:45	Dark	116.50	93	53Bet Peg	2.5200	3100.0	233	11865	No
GOM_TRA_1PNPDE20040607_003317_000000652027_00288_11865_0017.N1	07-JUN-2004 00:33:17	Dark	64.500	140	88Gam Peg	2.8340	26000.	129	11865	No
GOM_TRA_1PNPDE20040607_003820_000001342027_00288_11865_0018.N1	07-JUN-2004 00:38:20	Dark	133.50	90	54Alp Peg	2.4870	11000.	267	11865	No
GOM_TRA_1PNPDE20040607_004226_000000522027_00288_11865_0019.N1	07-JUN-2004 00:42:26	Dark	52.000	52	16Bet Cet	2.0370	4500.0	104	11865	No
GOM_TRA_1PNPDE20040607_004901_000000412027_00288_11865_0020.N1	07-JUN-2004 00:49:01	Dark	41.000	84	Alp Phe	2.3970	4500.0	82	11865	No
GOM_TRA_1PNPDE20040607_005036_000000522027_00288_11865_0021.N1	07-JUN-2004 00:50:36	Dark	52.000	9	Alp Eri	0.45300	24000.	104	11865	No
GOM_TRA_1PNPDE20040607_005209_000000622027_00289_11866_0022.N1	07-JUN-2004 00:52:09	Dark	62.000	18	24Alp PsA	1.1660	9700.0	124	11866	No
GOM_TRA_1PNPDE20040607_005443_000000642027_00289_11866_0023.N1	07-JUN-2004 00:54:43	Dark	64.000	63	Bet Gru	2.1500	2800.0	128	11866	No
GOM_TRA_1PNPDE20040607_005642_000000522027_00289_11866_0024.N1	07-JUN-2004 00:56:42	Dark	51.500	31	Alp Gru	1.7340	15200.	103	11866	No
GOM_TRA_1PNPDE20040607_010117_000000442027_00289_11866_0025.N1	07-JUN-2004 01:01:17	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11866	No
GOM_TRA_1PNPDE20040607_010413_000000522027_00289_11866_0026.N1	07-JUN-2004 01:04:13	Twilight	52.000	43	Alp TrA	1.9100	4250.0	104	11866	No
GOM_TRA_1PNPDE20040607_010613_000000422027_00289_11866_0027.N1	07-JUN-2004 01:06:13	Twilight	41.500	134	Bet TrA	2.8100	6600.0	83	11866	No
GOM_TRA_1PNPDE20040607_010817_000000422027_00289_11866_0028.N1	07-JUN-2004 01:08:17	Bright	42.000	147	Alp Ara	2.8770	26000.	84	11866	No
GOM_TRA_1PNPDE20040607_011120_000000552027_00289_11866_0029.N1	07-JUN-2004 01:11:20	Bright	54.500	38	20Eps Sgr	1.8360	11000.	109	11866	No
GOM_TRA_1PNPDE20040607_011319_000000682027_00289_11866_0030.N1	07-JUN-2004 01:13:19	Bright	67.500	57	34Sig Sgr	2.0660	26000.	135	11866	No
GOM_TRA_1PNPDE20040607_011521_000000712027_00289_11866_0000.N1	07-JUN-2004 01:15:21	Bright	71.000	155	41Pi Sgr	2.9000	6600.0	142	11866	Yes
GOM_TRA_1PNPDE20040607_011848_000000442027_00289_11866_0001.N1	07-JUN-2004 01:18:48	Bright	44.000	86	35Eta Oph	2.4300	10200.	88	11866	No
GOM_TRA_1PNPDE20040607_012035_000000422027_00289_11866_0002.N1	07-JUN-2004 01:20:35	Bright	41.500	98	13Zet Oph	2.5710	30000.	83	11866	No
GOM_TRA_1PNPDE20040607_012243_000000392027_00289_11866_0003.N1	07-JUN-2004 01:22:43	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	11866	No
GOM_TRA_1PNPDE20040607_012543_000000382027_00289_11866_0004.N1	07-JUN-2004 01:25:43	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	11866	No
GOM_TRA_1PNPDE20040607_013023_000000412027_00289_11866_0005.N1	07-JUN-2004 01:30:23	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	11866	No
GOM_TRA_1PNPDE20040607_013339_000000412027_00289_11866_0006.N1	07-JUN-2004 01:33:39	Bright	40.500	133	40Zet Her	2.8070	6000.0	81	11866	No
GOM_TRA_1PNPDE20040607_013838_000000362027_00289_11866_0007.N1	07-JUN-2004 01:38:38	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	11866	No
GOM_TRA_1PNPDE20040607_014029_000000412027_00289_11866_0008.N1	07-JUN-2004 01:40:29	Bright	41.000	55	79Zet UMa	2.0600	10200.	82	11866	No
GOM_TRA_1PNPDE20040607_014453_000000352027_00289_11866_0009.N1	07-JUN-2004 01:44:53	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	11866	No
GOM_TRA_1PNPDE20040607_014935_000000392027_00289_11866_0010.N1	07-JUN-2004 01:49:35	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	11866	No
GOM_TRA_1PNPDE20040607_015140_000000502027_00289_11866_0011.N1	07-JUN-2004 01:51:40	Bright	50.000	89	5Alp Cep	2.4510	8000.0	100	11866	No
GOM_TRA_1PNPDE20040607_015727_000000392027_00289_11866_0012.N1	07-JUN-2004 01:57:27	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	11866	No
GOM_TRA_1PNPDE20040607_020141_000002042027_00289_11866_0013.N1	07-JUN-2004 02:01:41	Twilight	204.00	92	53Eps Cyg	2.5000	4500.0	408	11866	No
GOM_TRA_1PNPDE20040607_020823_000000652027_00289_11866_0014.N1	07-JUN-2004 02:08:23	Twilight	64.500	58	21Alp And	2.0730	11000.	129	11866	No
GOM_TRA_1PNPDE20040607_021022_000001102027_00289_11866_0015.N1	07-JUN-2004 02:10:22	Dark	110.00	93	53Bet Peg	2.5200	3100.0	220	11866	No
GOM_TRA_1PNPDE20040607_021354_000000642027_00289_11866_0016.N1	07-JUN-2004 02:13:54	Dark	63.500	140	88Gam Peg	2.8340	26000.	127	11866	No
GOM_TRA_1PNPDE20040607_021858_000001332027_00289_11866_0017.N1	07-JUN-2004 02:18:58	Dark	133.00	90	54Alp Peg	2.4870	11000.	266	11866	No
GOM_TRA_1PNPDE20040607_022937_000000532027_00289_11866_0018.N1	07-JUN-2004 02:29:37	Dark	52.500	84	Alp Phe	2.3970	4500.0	105	11866	No
GOM_TRA_1PNPDE20040607_023112_000000512027_00289_11866_0019.N1	07-JUN-2004 02:31:12	Dark	51.000	9	Alp Eri	0.45300	24000.	102	11866	No
GOM_TRA_1PNPDE20040607_023246_000000722027_00290_11867_0020.N1	07-JUN-2004 02:32:46	Dark	72.000	18	24Alp PsA	1.1660	9700.0	144	11867	No
GOM_TRA_1PNPDE20040607_023522_000000522027_00290_11867_0021.N1	07-JUN-2004 02:35:22	Dark	52.000	63	Bet Gru	2.1500	2800.0	104	11867	No
GOM_TRA_1PNPDE20040607_023718_000000562027_00290_11867_0022.N1	07-JUN-2004 02:37:18	Dark	55.500	31	Alp Gru	1.7340	15200.	111	11867	No
GOM_TRA_1PNPDE20040607_024153_000000462027_00290_11867_0023.N1	07-JUN-2004 02:41:53	Dark	45.500	45	Alp Pav	1.9400	26000.	91	11867	No
GOM_TRA_1PNPDE20040607_024447_000000452027_00290_11867_0024.N1	07-JUN-2004 02:44:47	Twilight	44.500	43	Alp TrA	1.9100	4250.0	89	11867	No
GOM_TRA_1PNPDE20040607_024650_000000402027_00290_11867_0025.N1	07-JUN-2004 02:46:50	Twilight	39.500	134	Bet TrA	2.8100	6600.0	79	11867	No
GOM_TRA_1PNPDE20040607_024852_000000442027_00290_11867_0026.N1	07-JUN-2004 02:48:52	Bright	44.000	147	Alp Ara	2.8770	26000.	88	11867	No
GOM_TRA_1PNPDE20040607_025158_000000532027_00290_11867_0027.N1	07-JUN-2004 02:51:58	Bright	52.500	38	20Eps Sgr	1.8360	11000.	105	11867	No

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



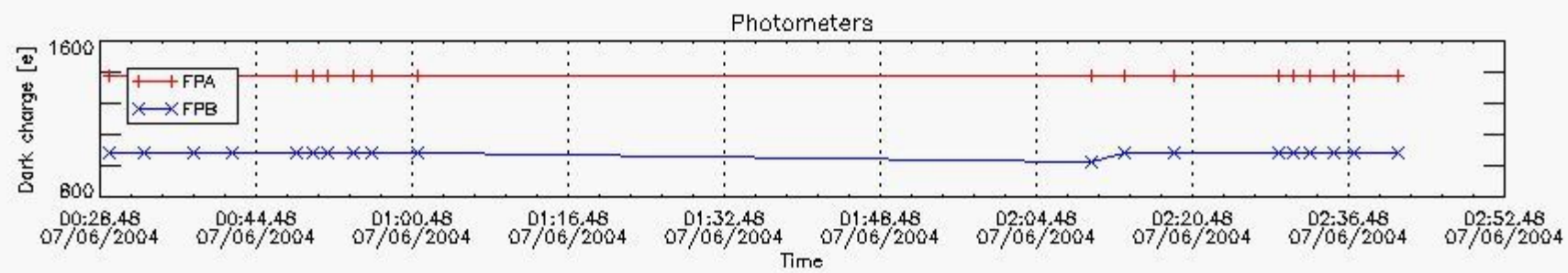
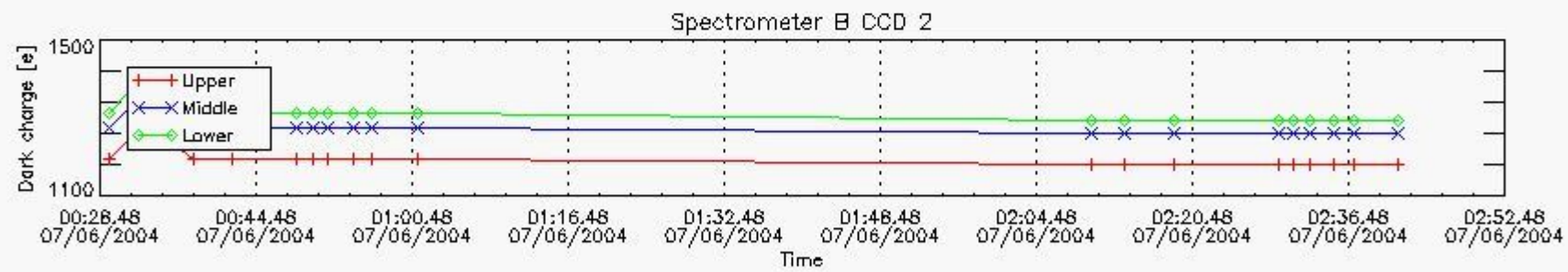
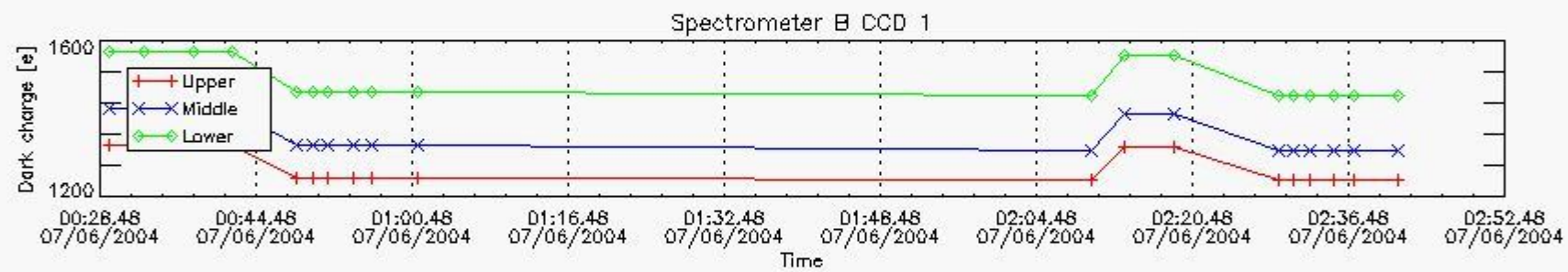
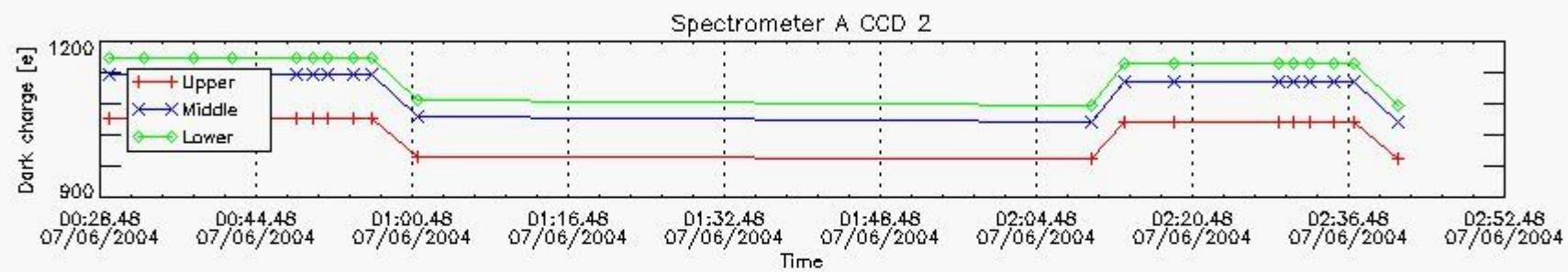
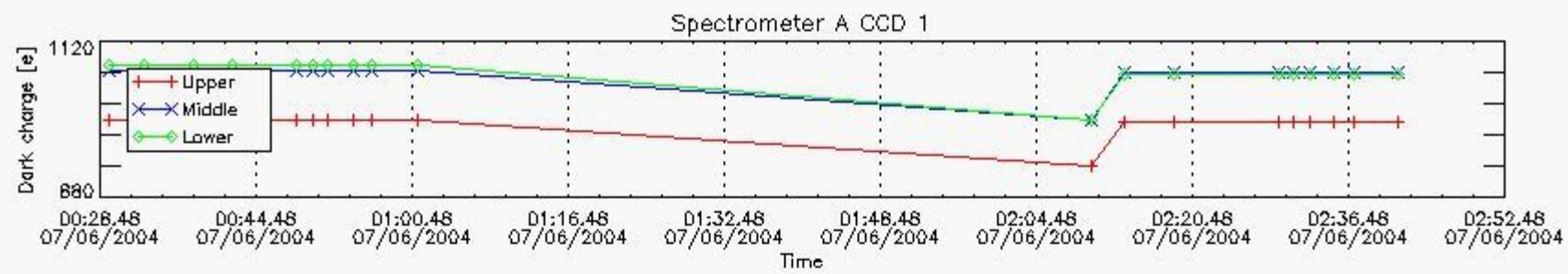
4. Overview of dark signal processing per product

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



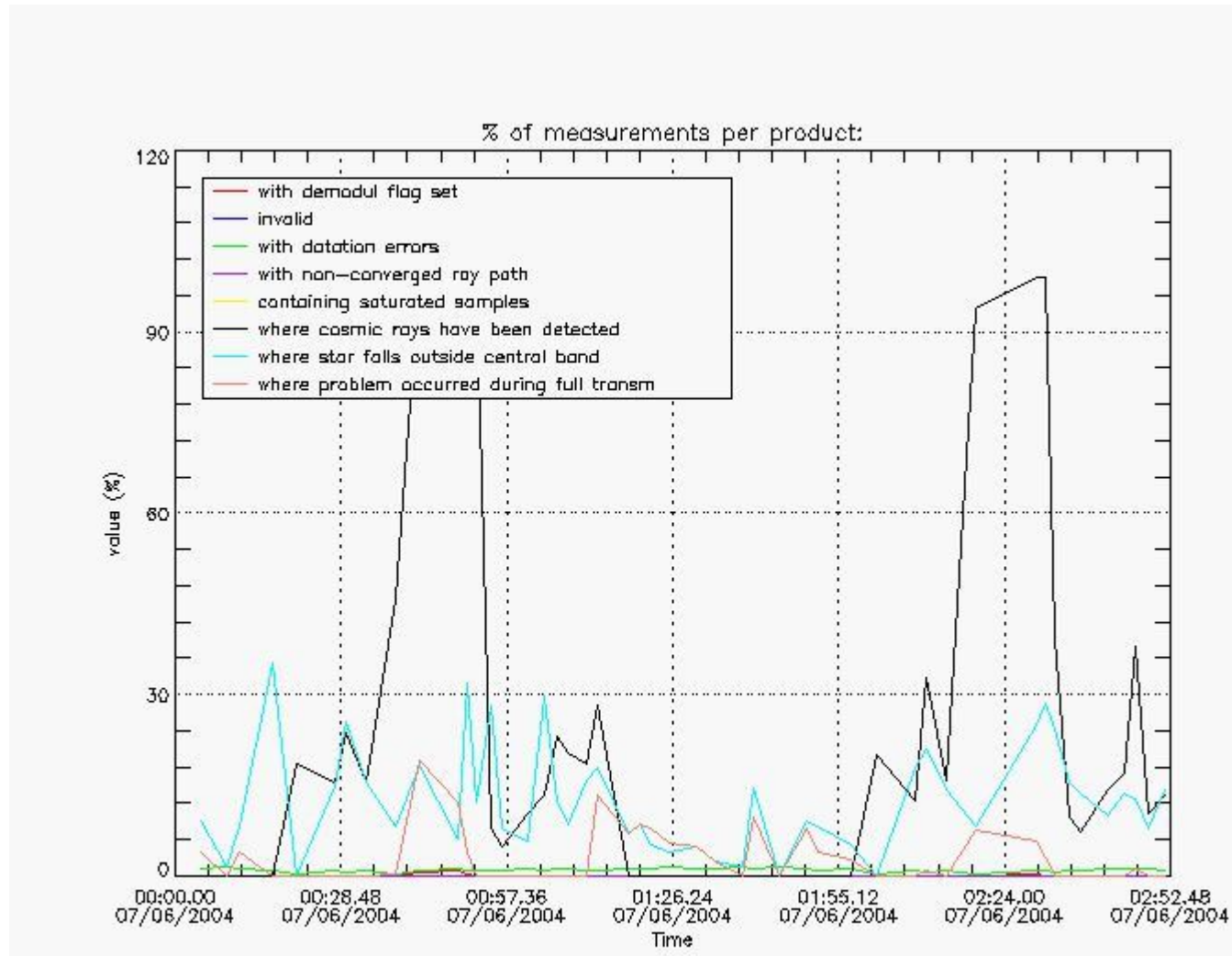
5. Demodulation flag and quality information monitoring

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:

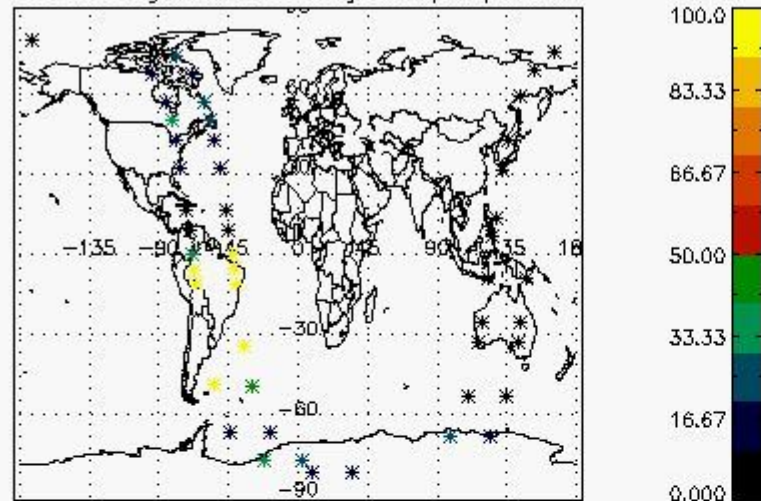
At least one measurement with demodulation flag set:	20.8333 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

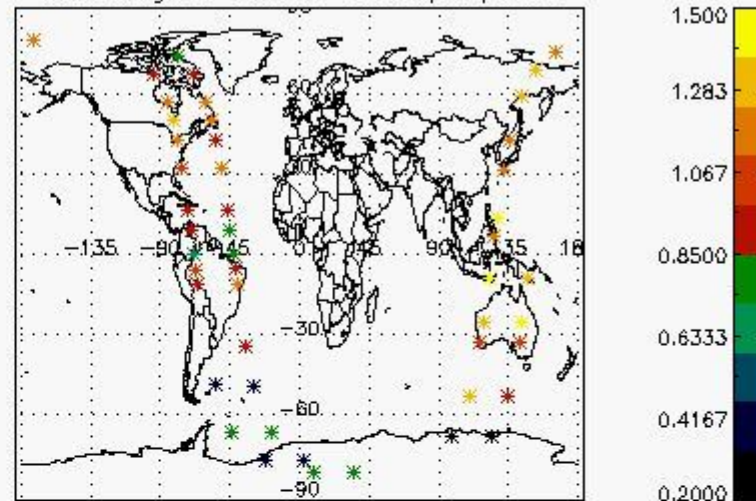


5.3 Plot quality information per product (world map)

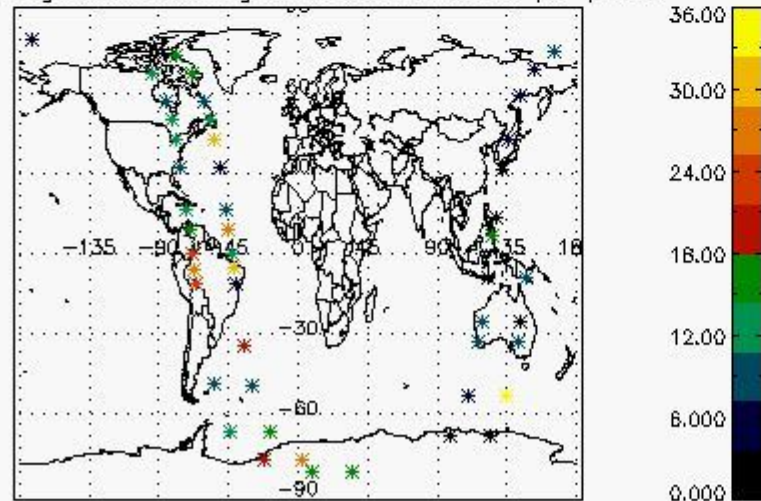
Percentage of cosmic ray hits per profile



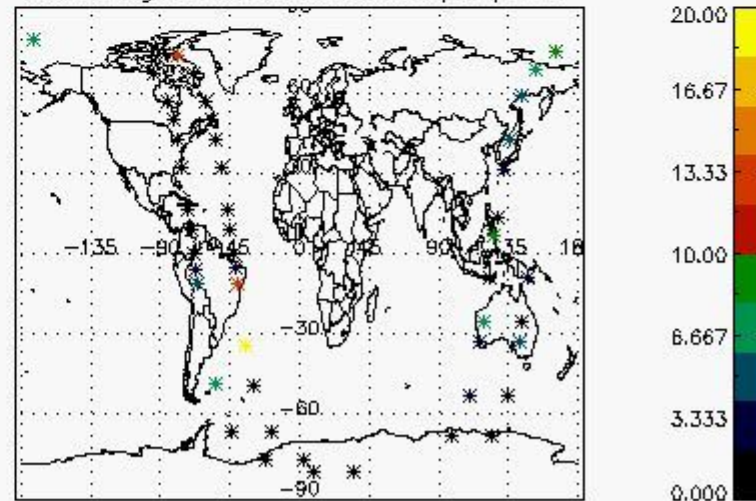
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



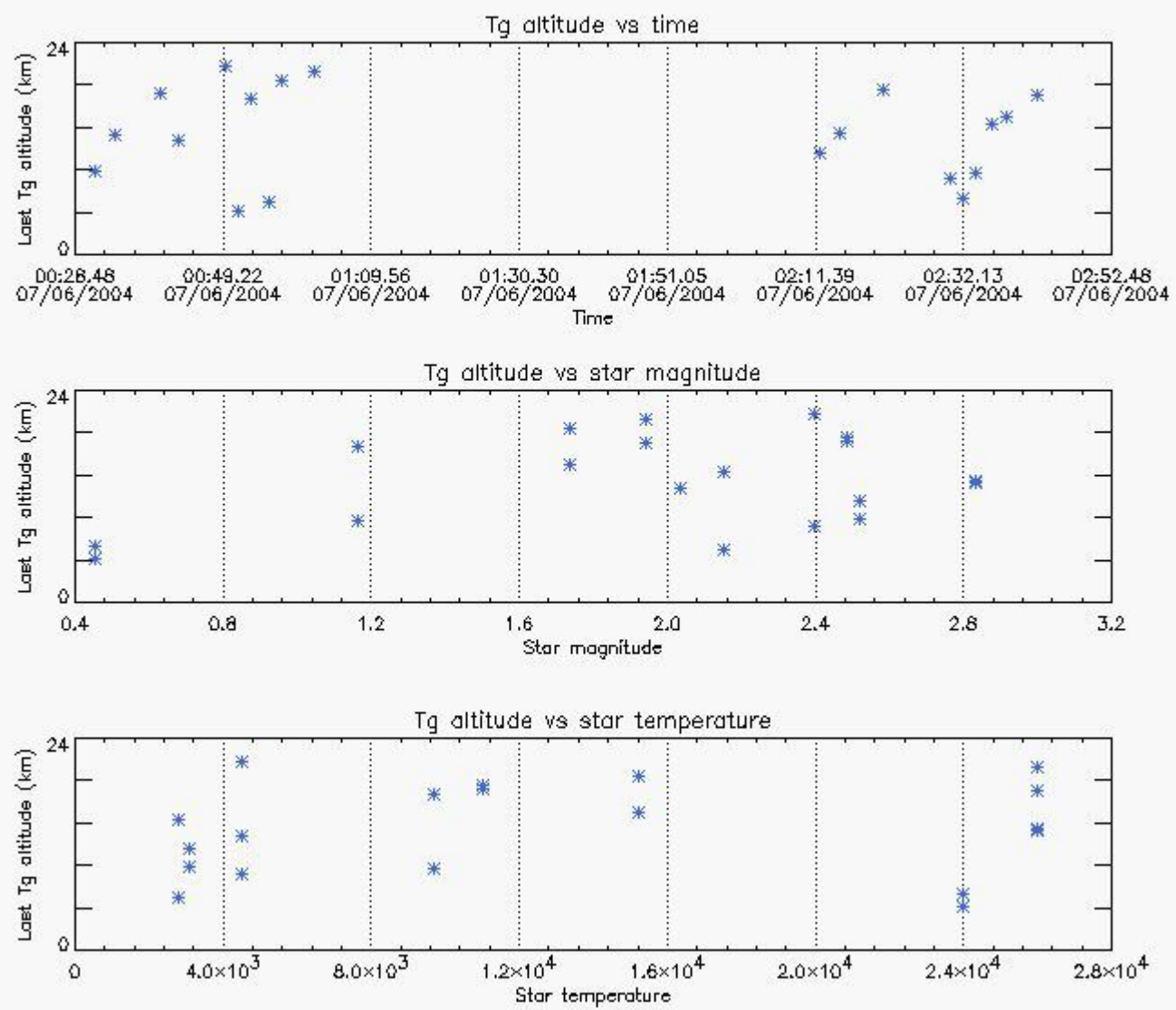
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.745	19.328	34.193
St. deviation:	5.2199	5.2871	38.369
Maximum:	21.288	28.798	96.412
Minimum:	4.8939	4.3555	5.5538
Number of data:	19.000	21.000	8.0000

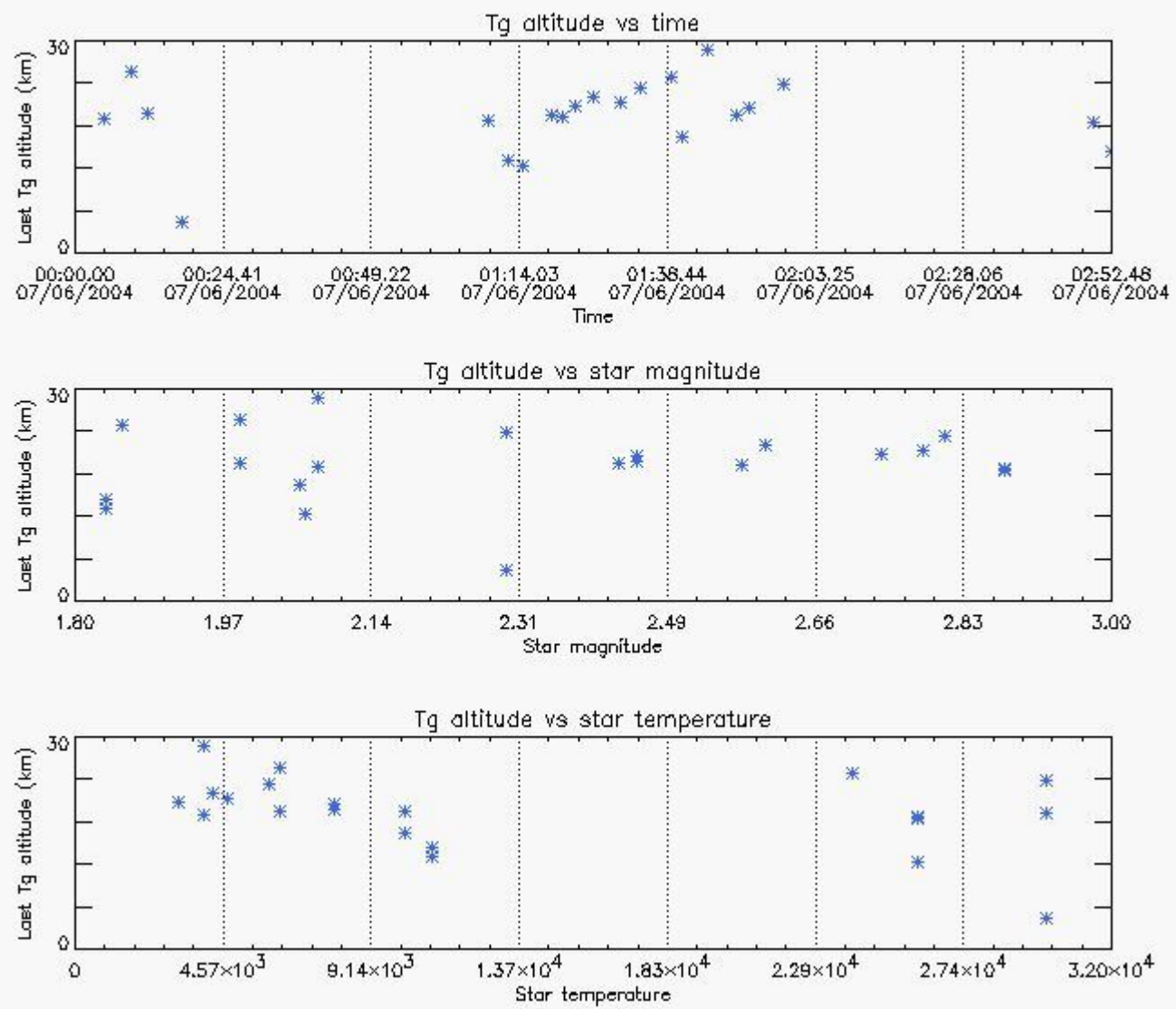
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



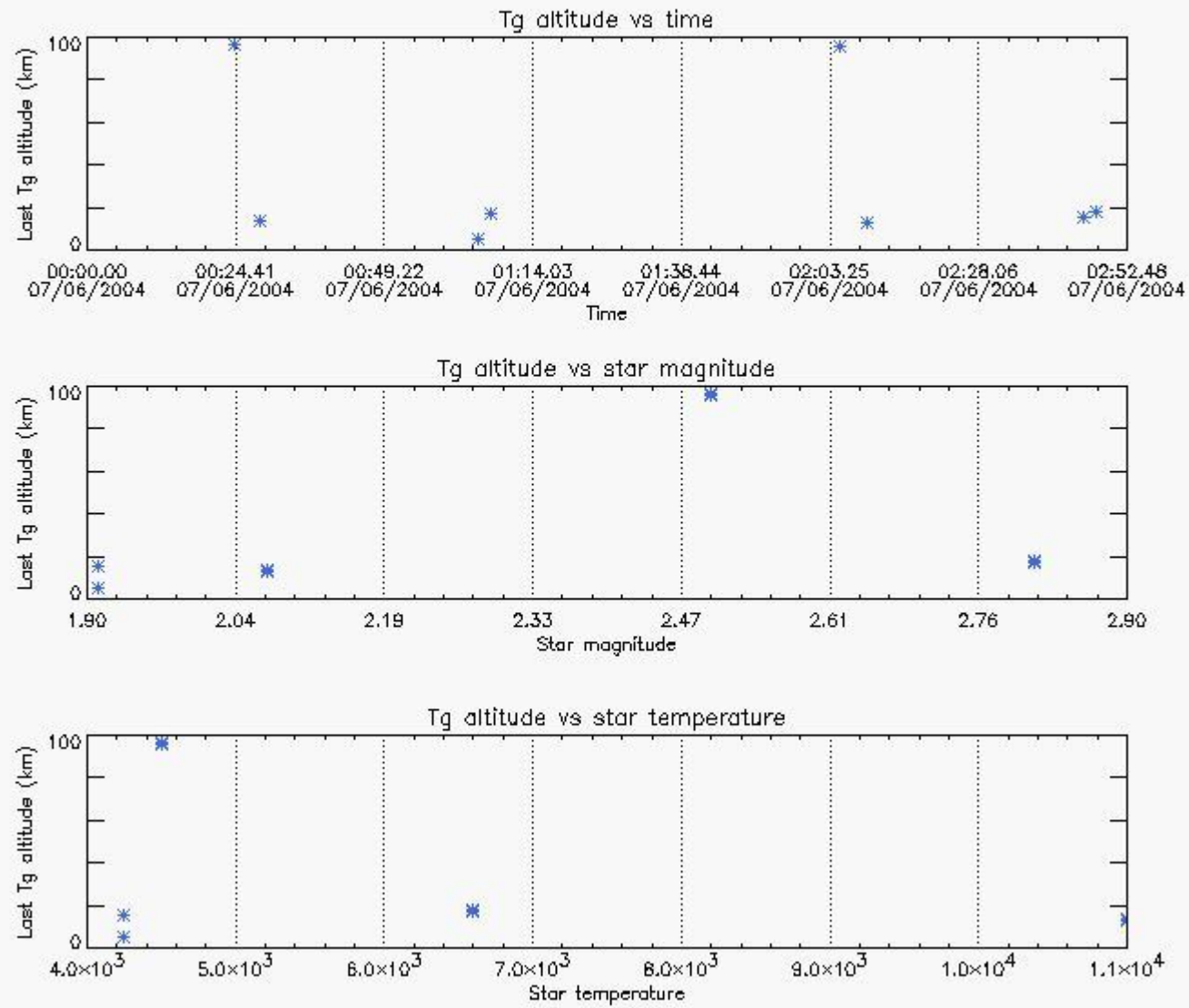
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

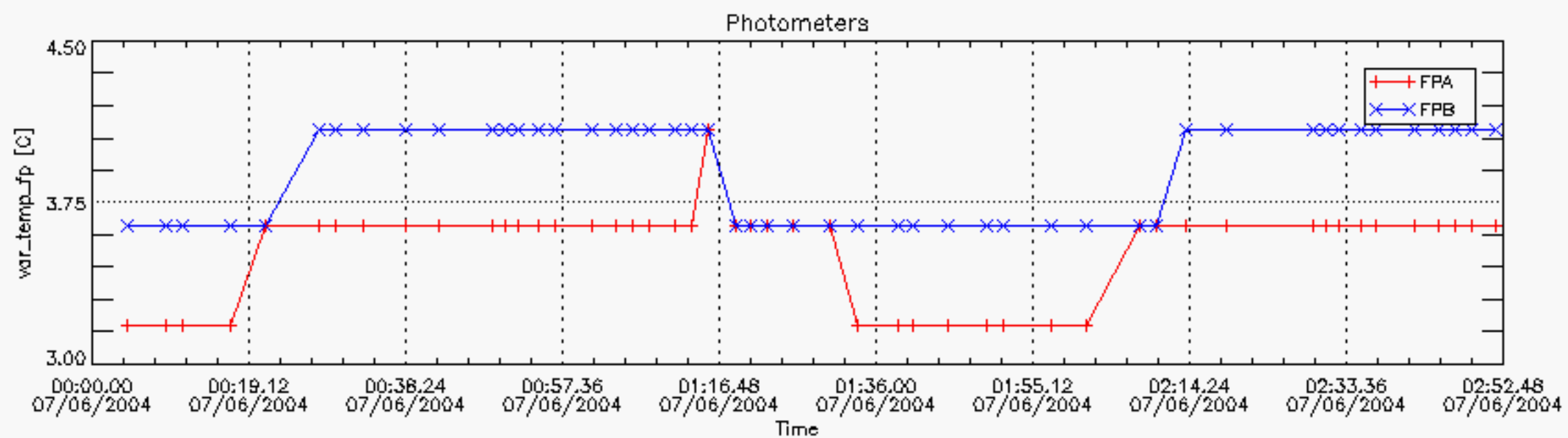
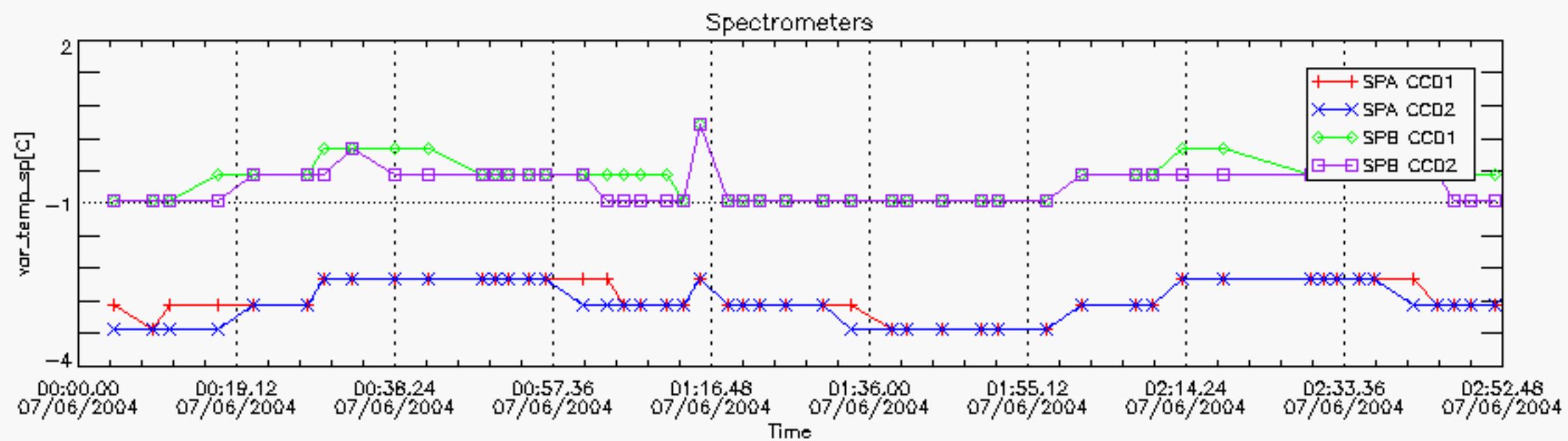
Tangent altitude at which the star is lost

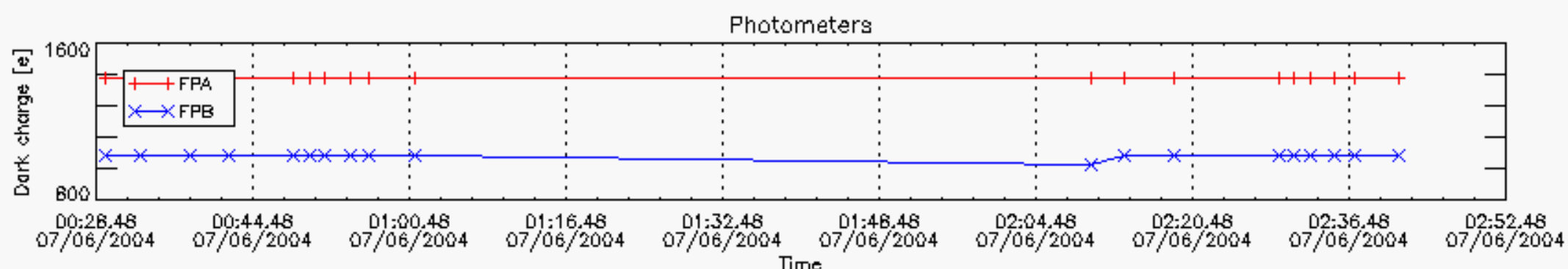
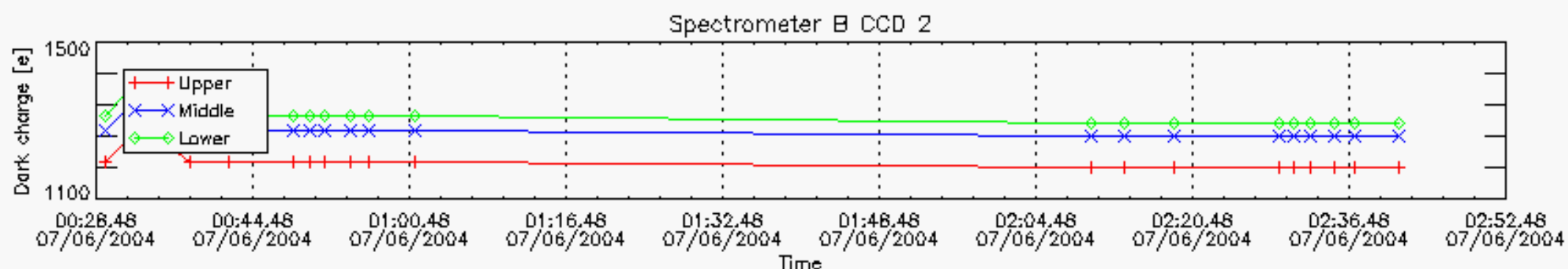
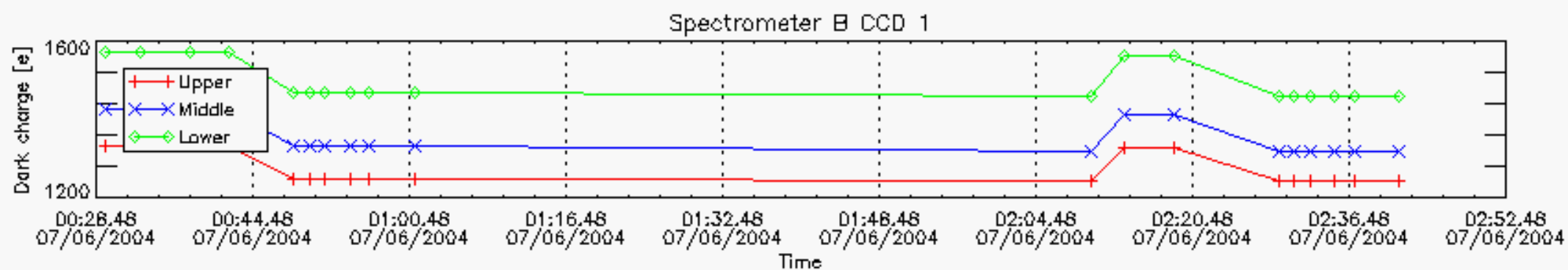
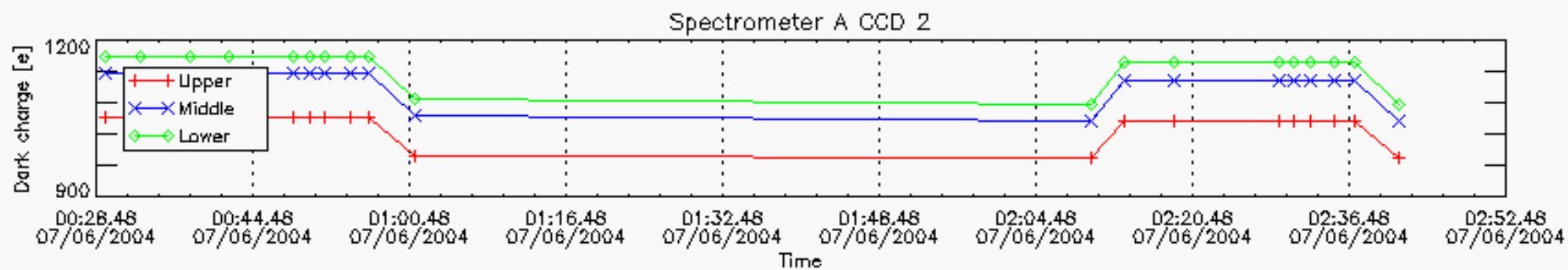
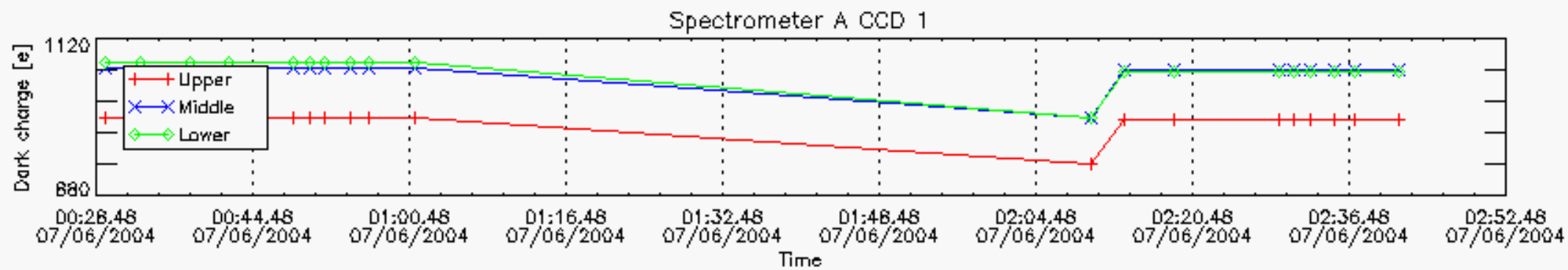


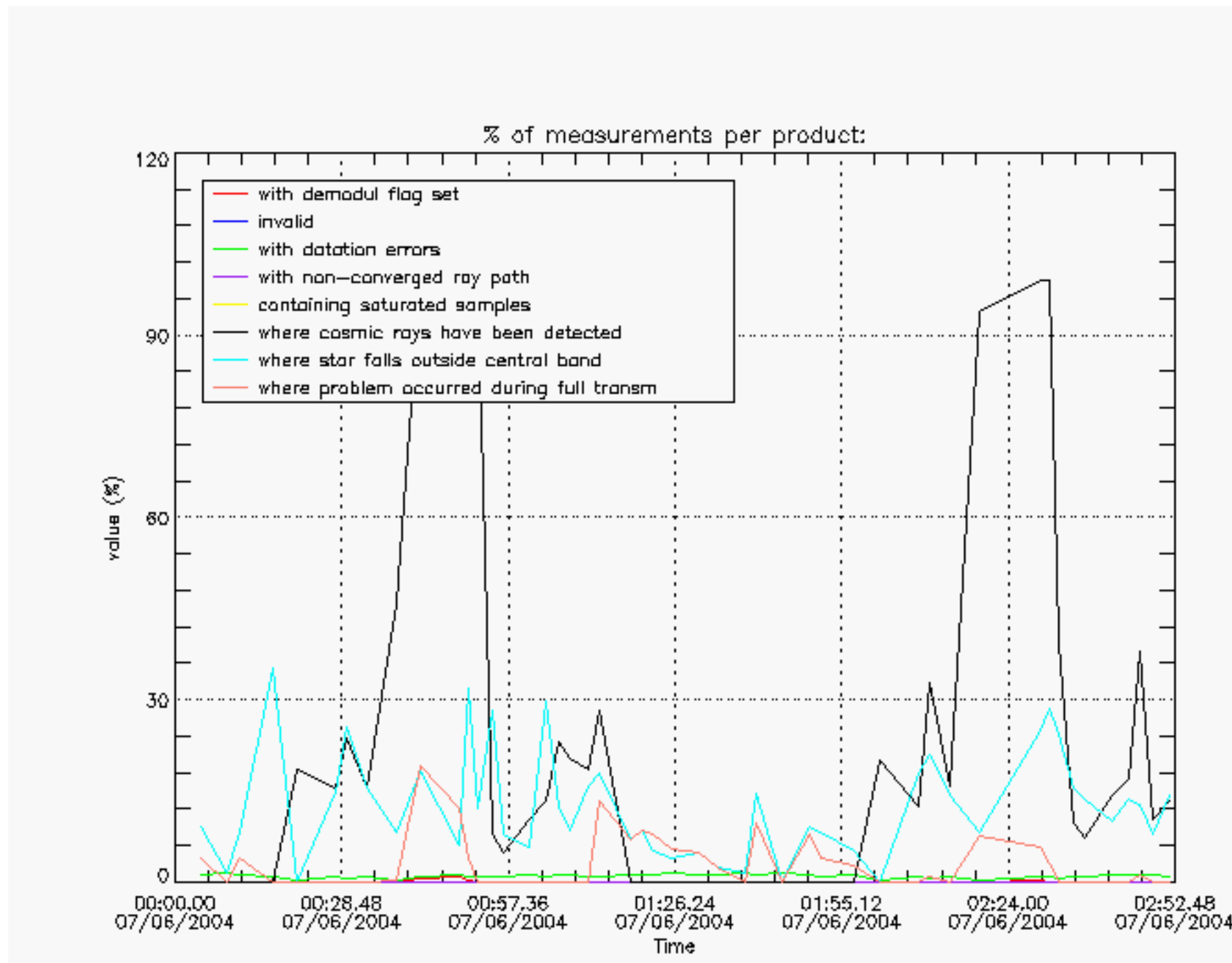
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

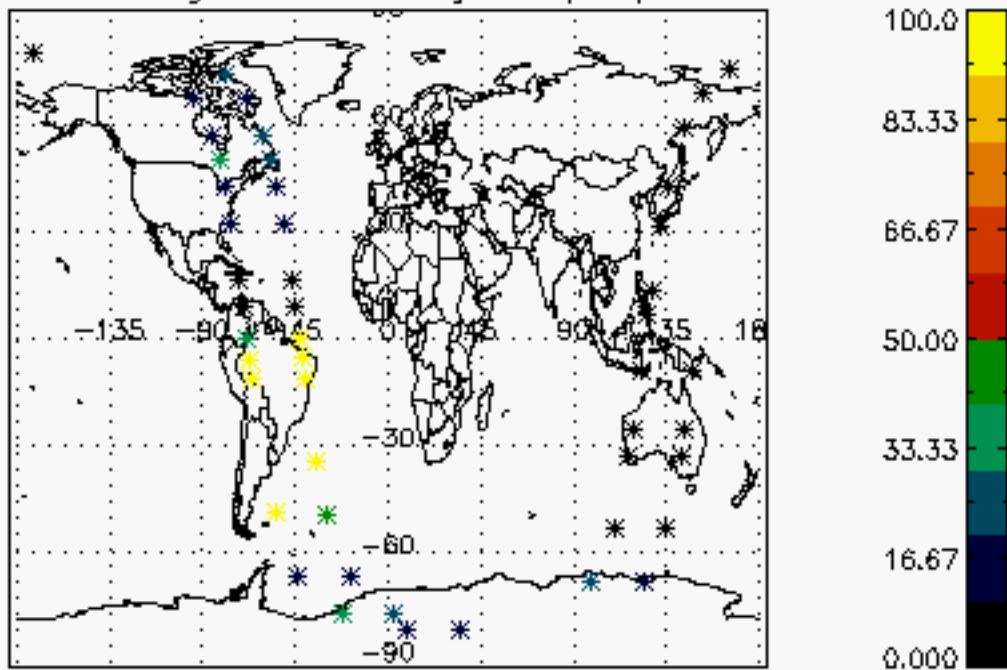
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.5	1449.0	1461.9	1446.8
St. deviation:	4.5482	6.0504	6.8427	8.0237
Maximum:	1502.0	1504.0	1502.0	1494.0
Minimum:	1440.0	1420.0	1447.0	1431.0
Number of data:	31950.	31950.	24050.	24050.



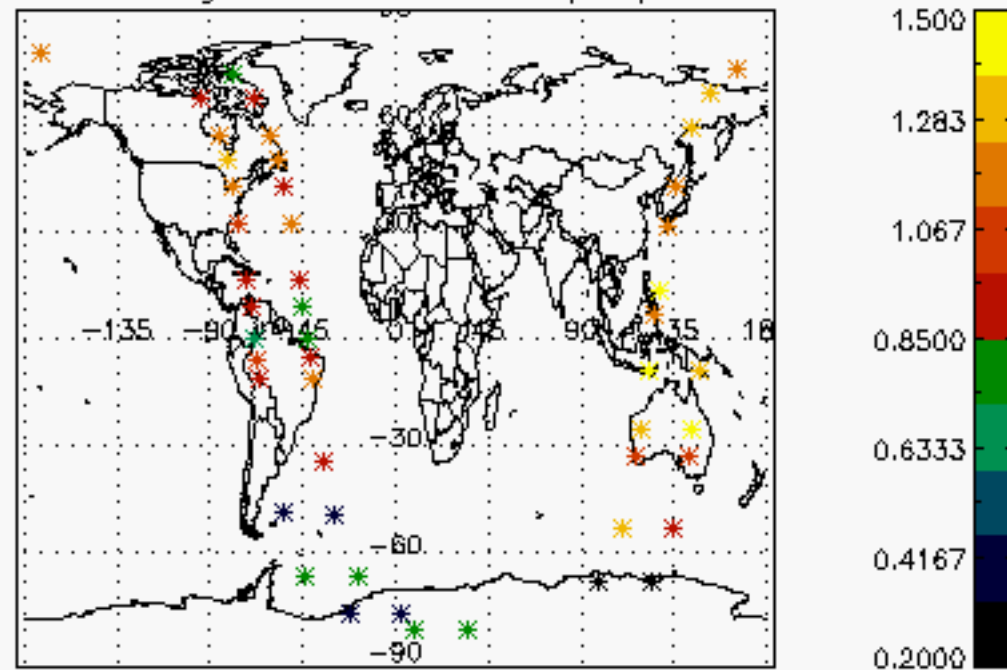




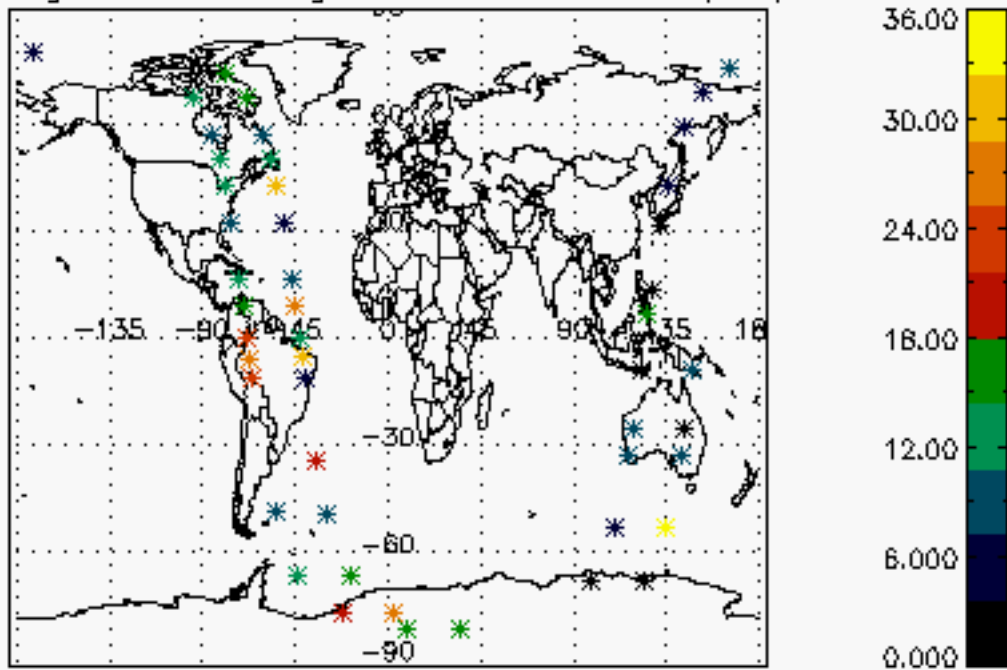
Percentage of cosmic ray hits per profile



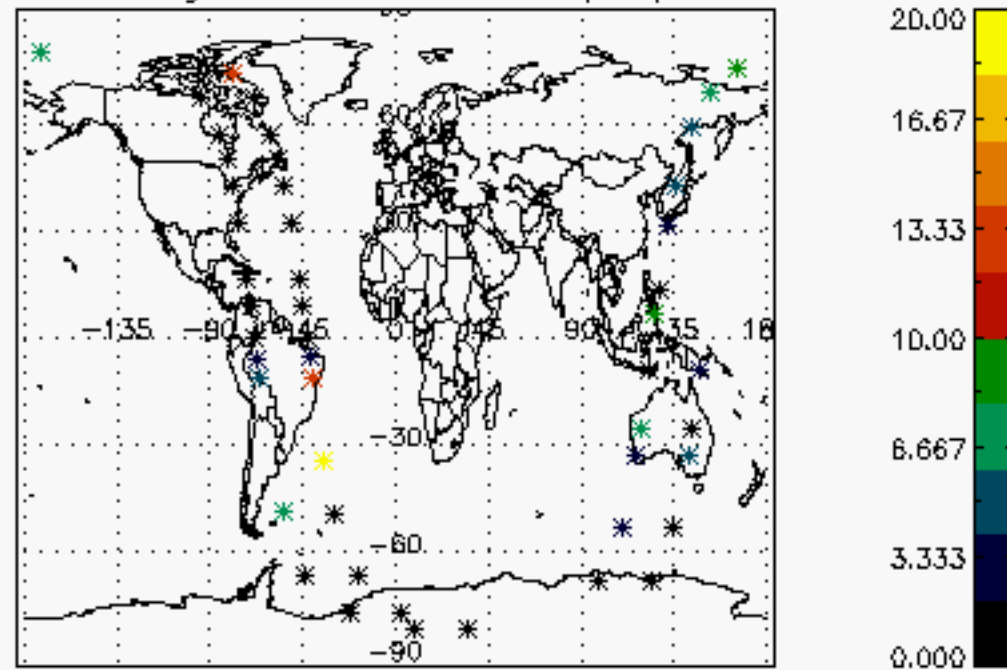
Percentage of datation errors per profile



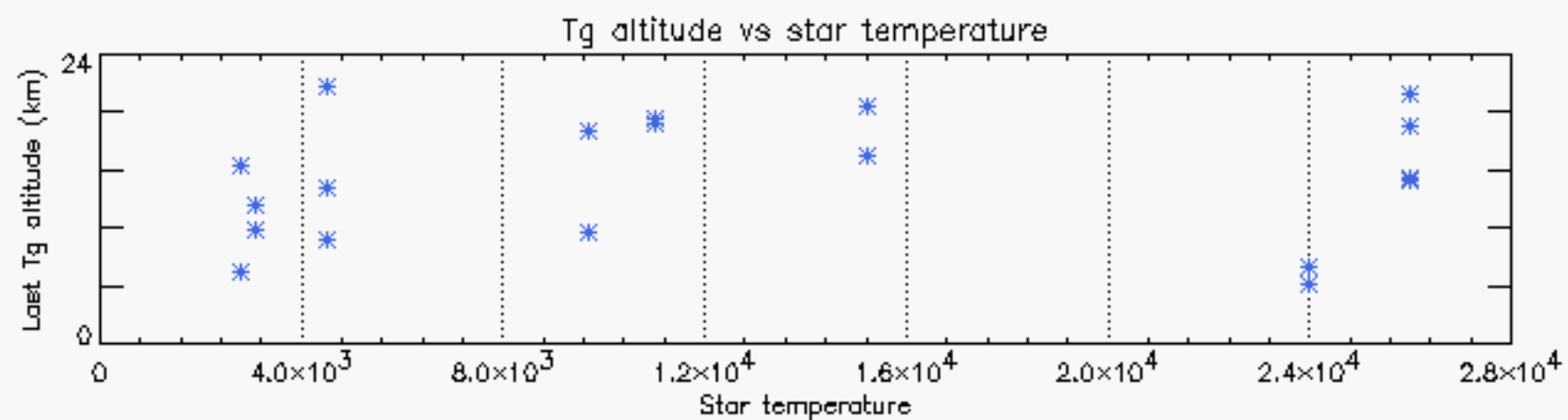
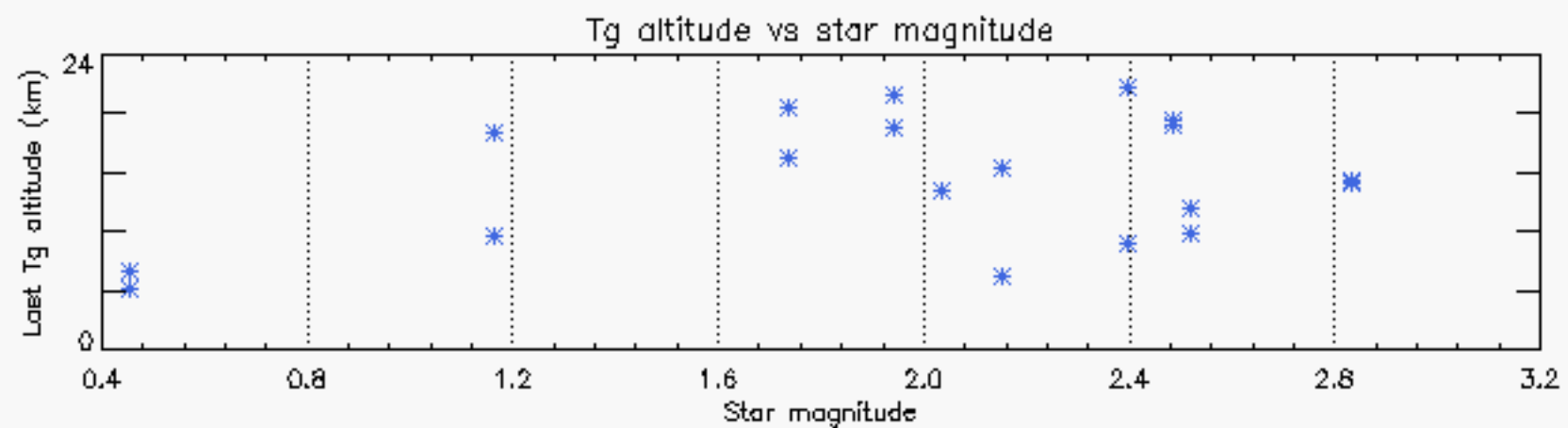
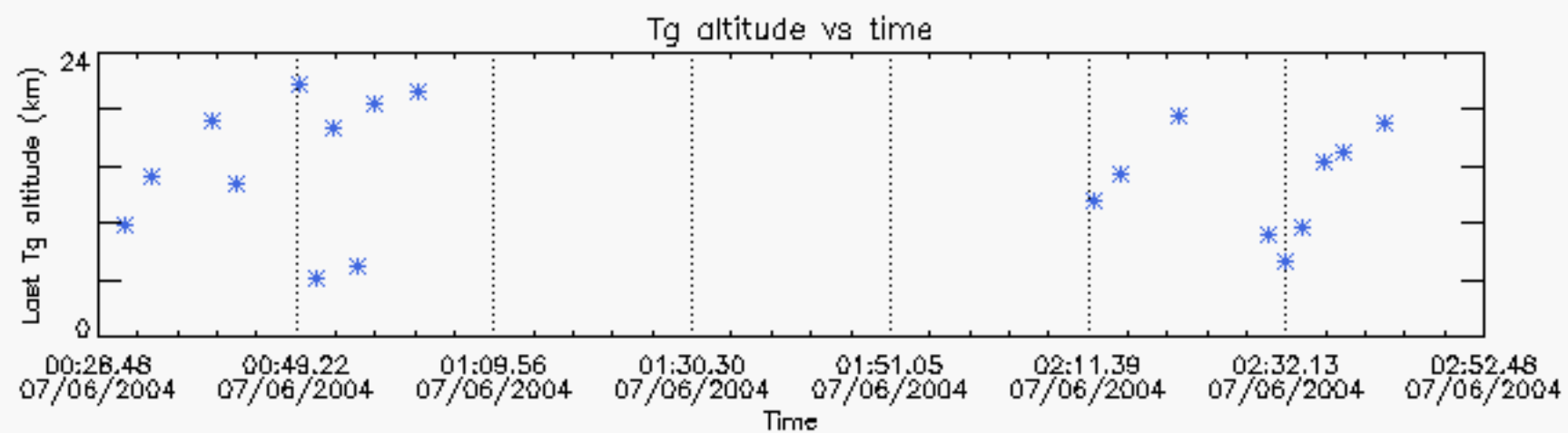
Percentage of star falling outside central band per profile



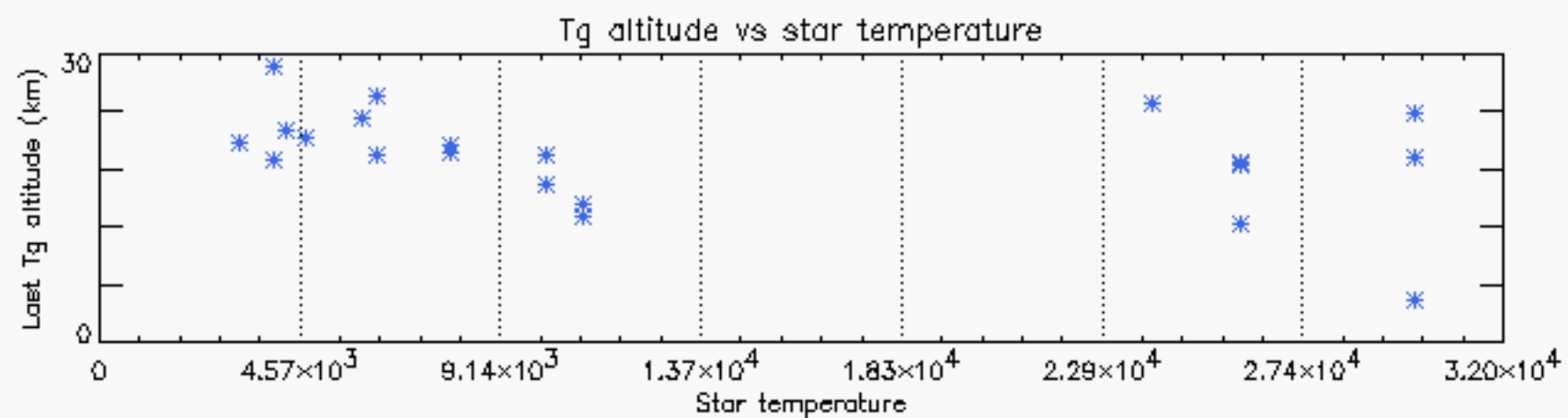
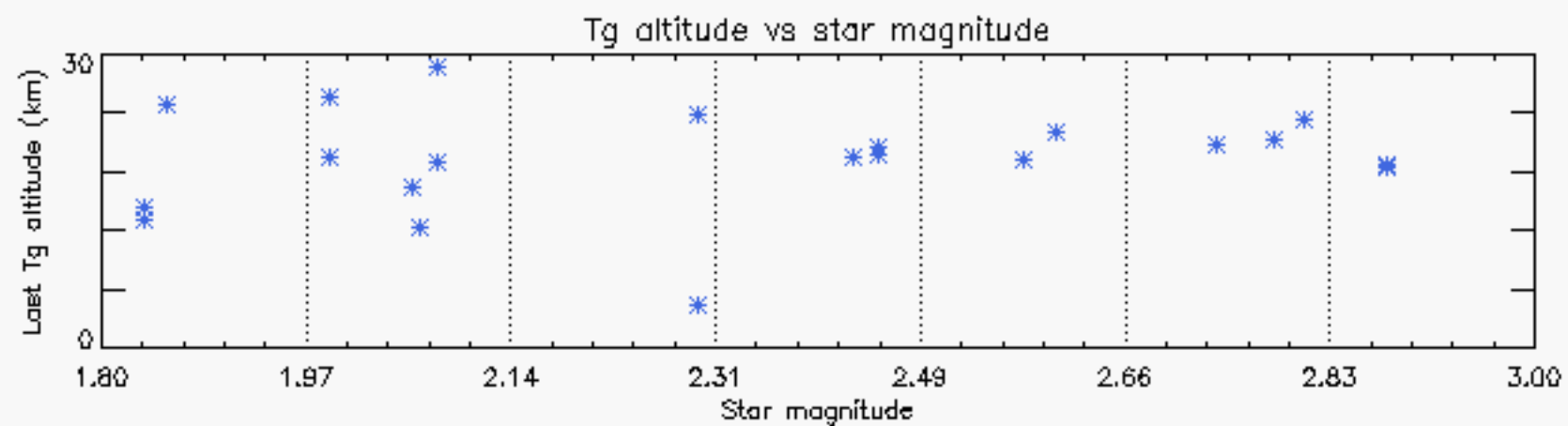
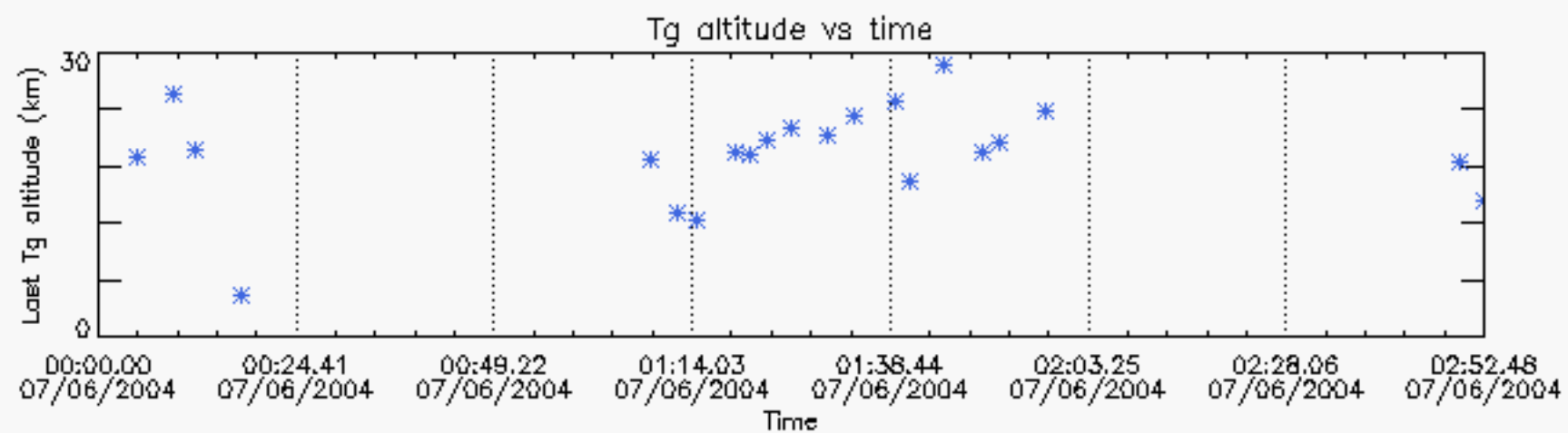
Percentage of saturation errors per profile



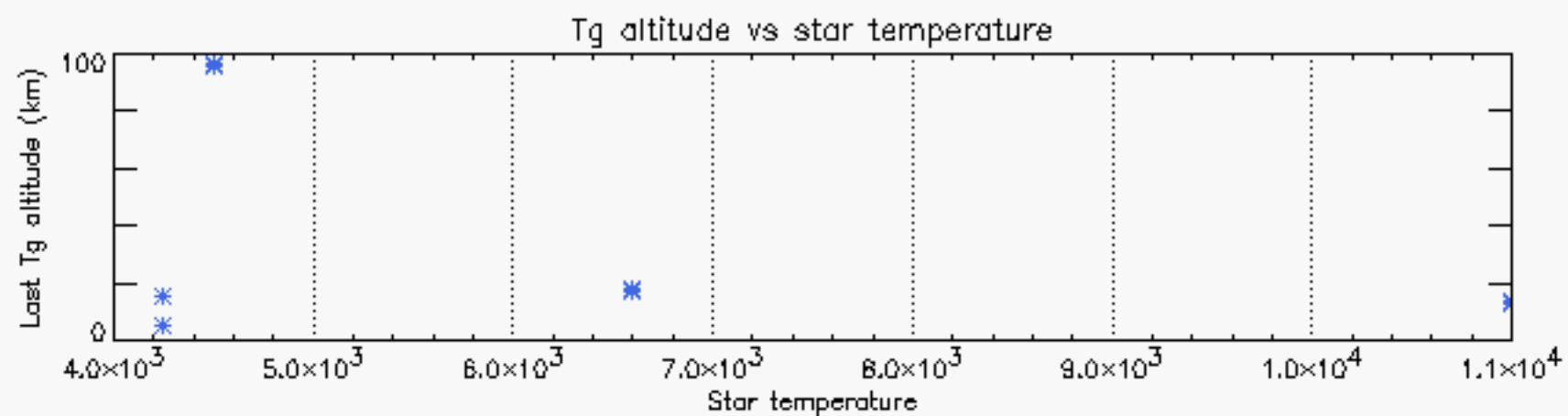
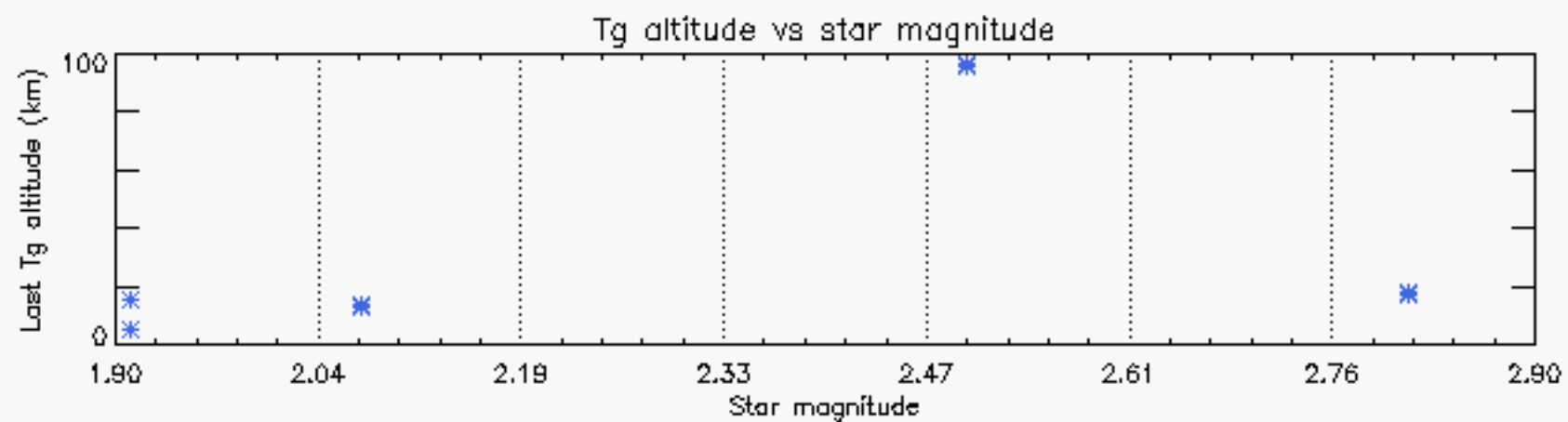
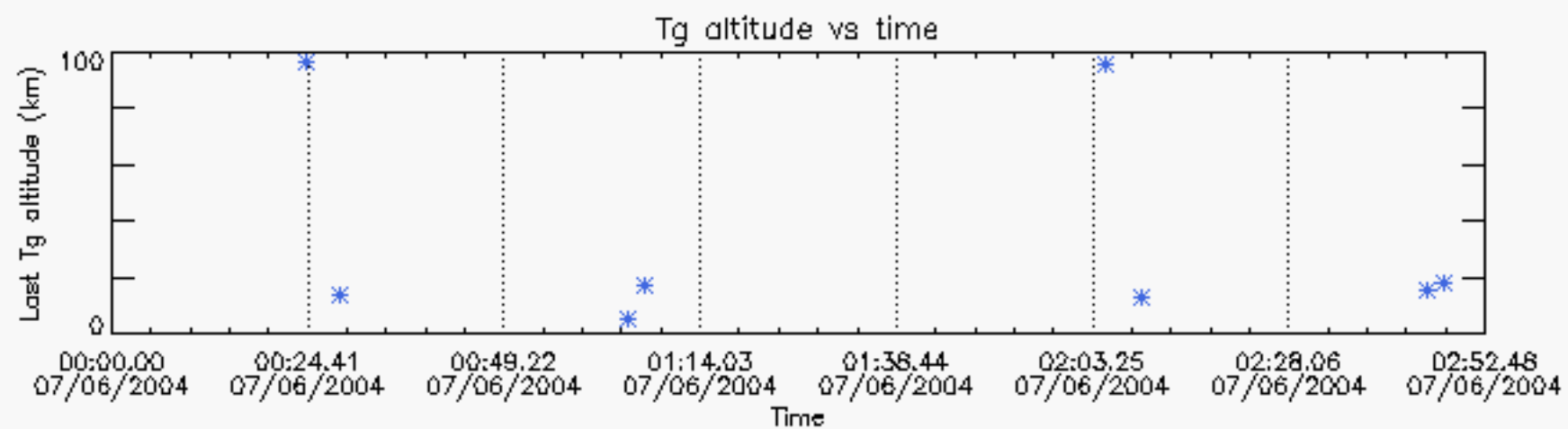
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 22; 83.3; 01-JUN-2004 07:24:27; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;11784
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 33; 1590.3; 01-JUN-2004 07:49:34; Bright; 47.5; 86; 35Eta Oph ; 2.43; 10200;occ; 95; 0;11784
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26; 3349.1; 30-JUN-2004 01:24:57; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;12195
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