

# GOMOS Daily Report 18-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	21JUN2004 08:54:14
Data source version	GOMOS/4.02
Start time of products	18-JUN-2004 (18JUN2004 00:00:00)
Stop time of products	19-JUN-2004 (19JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	42
Nb of prods with errors	0

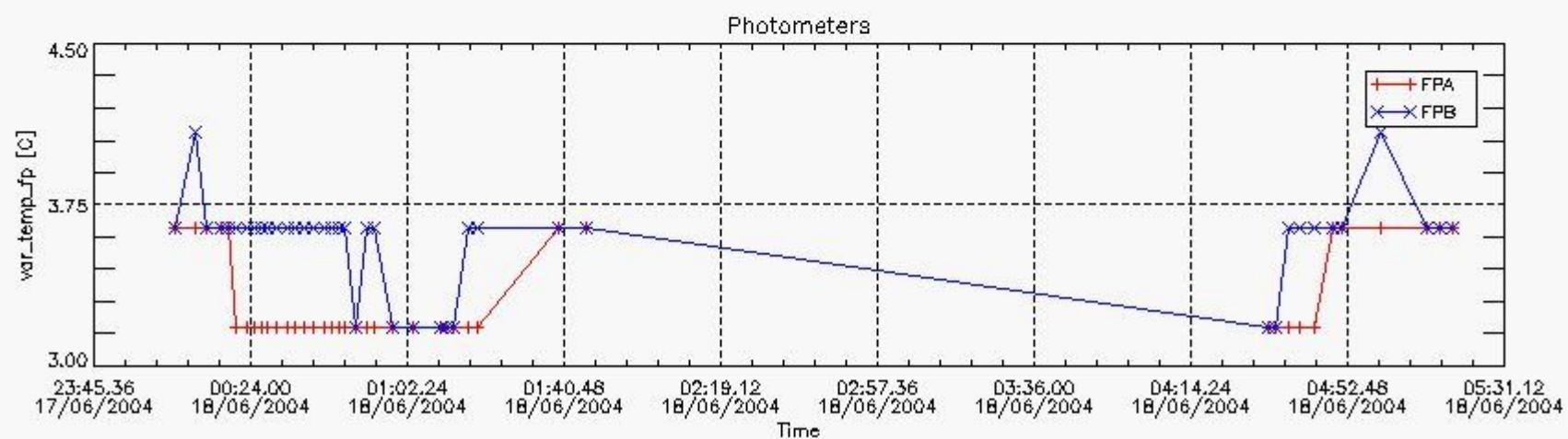
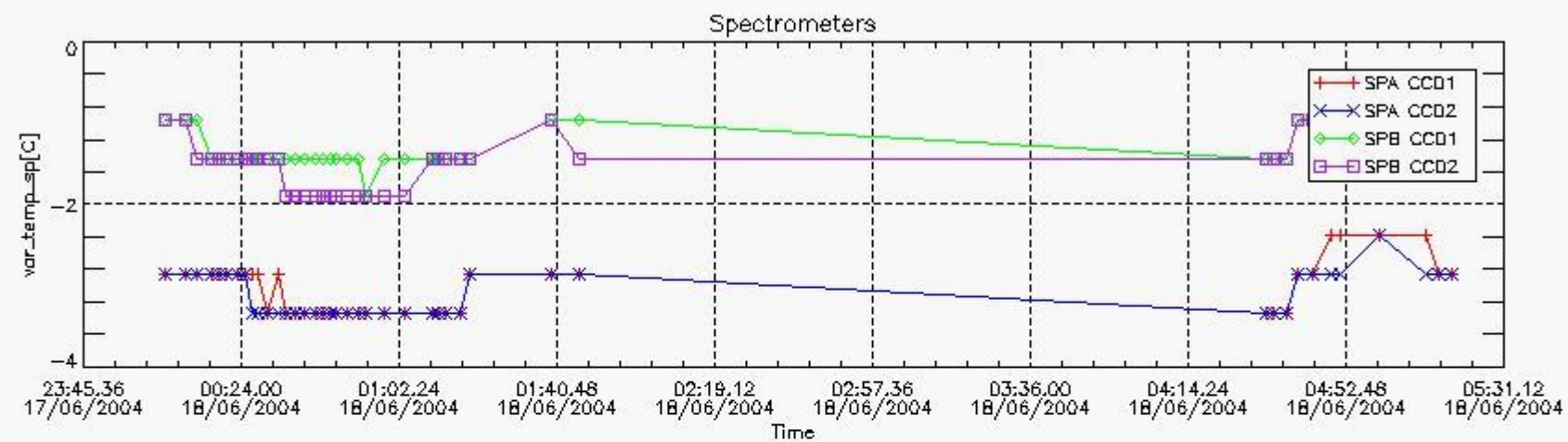
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040618_000525_000000492027_00445_12022_0001.N1	18-JUN-2004 00:05:25	Dark	49.000	9	Alp Eri	0.45300	24000.	98	12022	No
GOM_TRA_1PNPDE20040618_001020_000000732027_00446_12023_0002.N1	18-JUN-2004 00:10:20	Dark	72.500	18	24Alp PsA	1.1660	9700.0	145	12023	No
GOM_TRA_1PNPDE20040618_001319_000000512027_00446_12023_0003.N1	18-JUN-2004 00:13:19	Dark	50.500	31	Alp Gru	1.7340	15200.	101	12023	No
GOM_TRA_1PNPDE20040618_001655_000000442027_00446_12023_0004.N1	18-JUN-2004 00:16:55	Twilight	44.000	45	Alp Pav	1.9400	26000.	88	12023	No
GOM_TRA_1PNPDE20040618_001839_000000492027_00446_12023_0005.N1	18-JUN-2004 00:18:39	Twilight	49.000	43	Alp TrA	1.9100	4250.0	98	12023	No
GOM_TRA_1PNPDE20040618_002033_000000392027_00446_12023_0006.N1	18-JUN-2004 00:20:33	Bright	38.500	134	Bet TrA	2.8100	6600.0	77	12023	No
GOM_TRA_1PNPDE20040618_002308_000000432027_00446_12023_0007.N1	18-JUN-2004 00:23:08	Bright	43.000	147	Alp Ara	2.8770	26000.	86	12023	No
GOM_TRA_1PNPDE20040618_002454_000000482027_00446_12023_0008.N1	18-JUN-2004 00:24:54	Bright	48.000	40	The Sco	1.8590	7100.0	96	12023	No
GOM_TRA_1PNPDE20040618_002636_000000452027_00446_12023_0009.N1	18-JUN-2004 00:26:36	Bright	45.000	25	35Lam Sco	1.6200	28000.	90	12023	No
GOM_TRA_1PNPDE20040618_002759_000000472027_00446_12023_0010.N1	18-JUN-2004 00:27:59	Bright	46.500	75	26Eps Sco	2.2910	4250.0	93	12023	No
GOM_TRA_1PNPDE20040618_003009_000000552027_00446_12023_0011.N1	18-JUN-2004 00:30:09	Bright	55.000	155	41Pi Sgr	2.9000	6600.0	110	12023	No
GOM_TRA_1PNPDE20040618_003306_000000412027_00446_12023_0012.N1	18-JUN-2004 00:33:06	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	12023	No
GOM_TRA_1PNPDE20040618_003447_000000402027_00446_12023_0013.N1	18-JUN-2004 00:34:47	Bright	40.000	98	13Zet Oph	2.5710	30000.	80	12023	No
GOM_TRA_1PNPDE20040618_003654_000000402027_00446_12023_0014.N1	18-JUN-2004 00:36:54	Bright	40.000	120	1Del Oph	2.7340	3200.0	80	12023	No
GOM_TRA_1PNPDE20040618_003928_000000432027_00446_12023_0015.N1	18-JUN-2004 00:39:28	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	12023	No
GOM_TRA_1PNPDE20040618_004156_000000432027_00446_12023_0016.N1	18-JUN-2004 00:41:56	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	12023	No
GOM_TRA_1PNPDE20040618_004403_000000382027_00446_12023_0017.N1	18-JUN-2004 00:44:03	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	12023	No
GOM_TRA_1PNPDE20040618_004539_000000402027_00446_12023_0018.N1	18-JUN-2004 00:45:39	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	12023	No
GOM_TRA_1PNPDE20040618_004702_000000402027_00446_12023_0019.N1	18-JUN-2004 00:47:02	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	12023	No
GOM_TRA_1PNPDE20040618_004944_000000382027_00446_12023_0020.N1	18-JUN-2004 00:49:44	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	12023	No
GOM_TRA_1PNPDE20040618_005219_000000492027_00446_12023_0021.N1	18-JUN-2004 00:52:19	Bright	48.500	5	3Alp Lyr	0.033000	11000.	97	12023	No
GOM_TRA_1PNPDE20040618_005409_000000462027_00446_12023_0022.N1	18-JUN-2004 00:54:09	Bright	45.500	69	33Gam Dra	2.2310	3800.0	91	12023	No
GOM_TRA_1PNPDE20040618_005900_000000352027_00446_12023_0023.N1	18-JUN-2004 00:59:00	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	12023	No
GOM_TRA_1PNPDE20040618_010334_000000392027_00446_12023_0024.N1	18-JUN-2004 01:03:34	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	12023	No
GOM_TRA_1PNPDE20040618_011034_000000572027_00446_12023_0025.N1	18-JUN-2004 01:10:34	Bright	57.000	74	11Bet Cas	2.2680	6600.0	114	12023	No
GOM_TRA_1PNPDE20040618_011200_000000452027_00446_12023_0026.N1	18-JUN-2004 01:12:00	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	12023	No
GOM_TRA_1PNPDE20040618_011352_000000372027_00446_12023_0027.N1	18-JUN-2004 01:13:52	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	12023	No
GOM_TRA_1PNPDE20040618_011718_000000442027_00446_12023_0028.N1	18-JUN-2004 01:17:18	Twilight	44.000	73	57Gam1And	2.2600	13100.	88	12023	No
GOM_TRA_1PNPDE20040618_011942_000000622027_00446_12023_0029.N1	18-JUN-2004 01:19:42	Twilight	62.000	53	43Bet And	2.0480	3300.0	124	12023	No
GOM_TRA_1PNPDE20040618_013930_000000712027_00446_12023_0000.N1	18-JUN-2004 01:39:30	Dark	71.000	52	16Bet Cet	2.0370	4500.0	142	12023	No
GOM_TRA_1PNPDE20040618_014559_000000532027_00446_12023_0001.N1	18-JUN-2004 01:45:59	Dark	52.500	9	Alp Eri	0.45300	24000.	105	12023	No
GOM_TRA_1PNPDE20040618_043311_000000472027_00448_12025_0000.N1	18-JUN-2004 04:33:11	Bright	47.000	68	18Alp Cas	2.2250	4500.0	94	12025	No
GOM_TRA_1PNPDE20040618_043504_000000372027_00448_12025_0001.N1	18-JUN-2004 04:35:04	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	12025	No
GOM_TRA_1PNPDE20040618_043830_000000442027_00448_12025_0002.N1	18-JUN-2004 04:38:30	Twilight	44.000	73	57Gam1And	2.2600	13100.	88	12025	No
GOM_TRA_1PNPDE20040618_044054_000000612027_00448_12025_0003.N1	18-JUN-2004 04:40:54	Twilight	61.000	53	43Bet And	2.0480	3300.0	122	12025	No
GOM_TRA_1PNPDE20040618_044430_000000542027_00448_12025_0004.N1	18-JUN-2004 04:44:30	Twilight	53.500	50	13Alp Ari	2.0070	4250.0	107	12025	No
GOM_TRA_1PNPDE20040618_044916_000000492027_00448_12025_0005.N1	18-JUN-2004 04:49:16	Twilight	48.500	94	92Alp Cet	2.5260	3100.0	97	12025	No
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GOM_TRA_1PNPDE20040618_050045_000000622027_00448_12025_0007.N1	18-JUN-2004 05:00:45	Dark	61.500	52	16Bet Cet	2.0370	4500.0	123	12025	No
GOM_TRA_1PNPDE20040618_051214_000000712027_00449_12026_0008.N1	18-JUN-2004 05:12:14	Dark	70.500	18	24Alp PsA	1.1660	9700.0	141	12026	No
GOM_TRA_1PNPDE20040618_051510_000000532027_00449_12026_0009.N1	18-JUN-2004 05:15:10	Dark	52.500	31	Alp Gru	1.7340	15200.	105	12026	No
GOM_TRA_1PNPDE20040618_051846_000000432027_00449_12026_0010.N1	18-JUN-2004 05:18:46	Twilight	43.000	45	Alp Pav	1.9400	26000.	86	12026	No

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



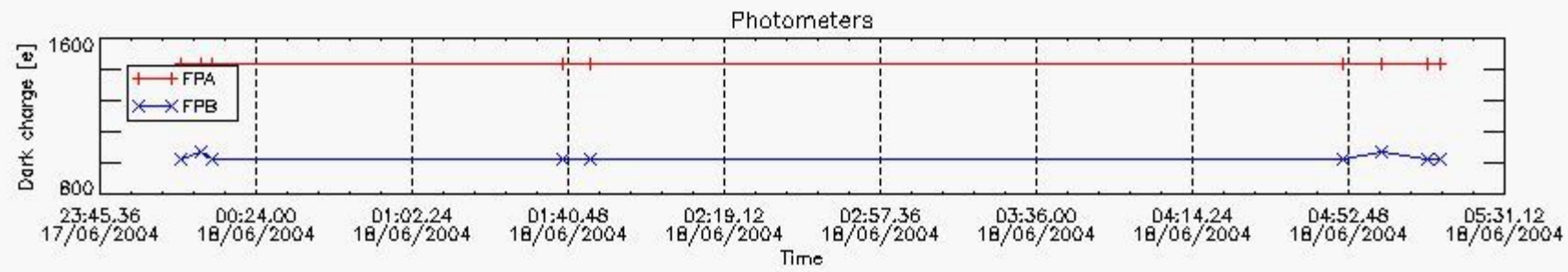
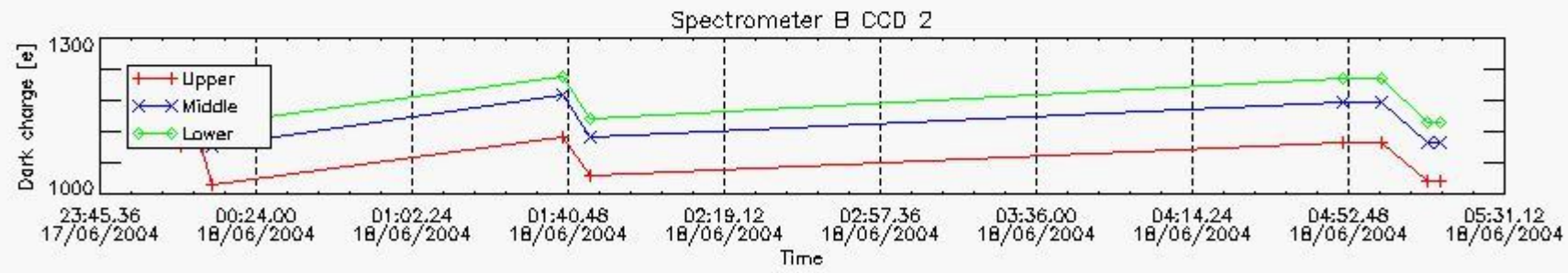
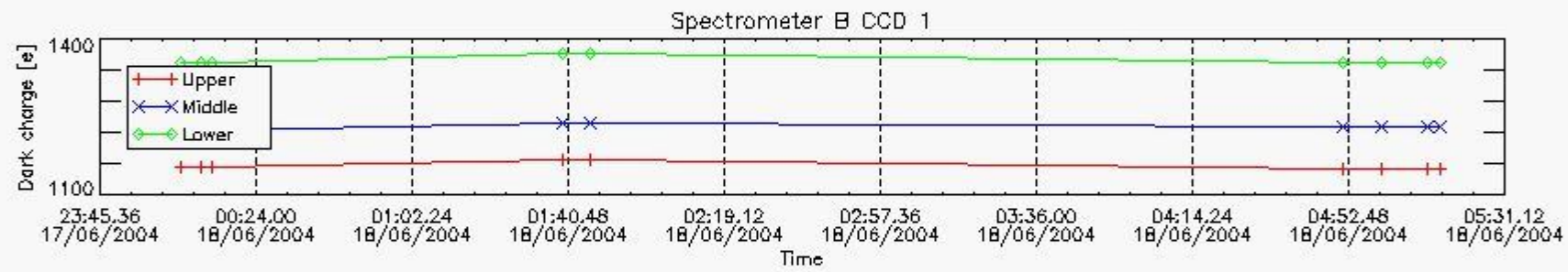
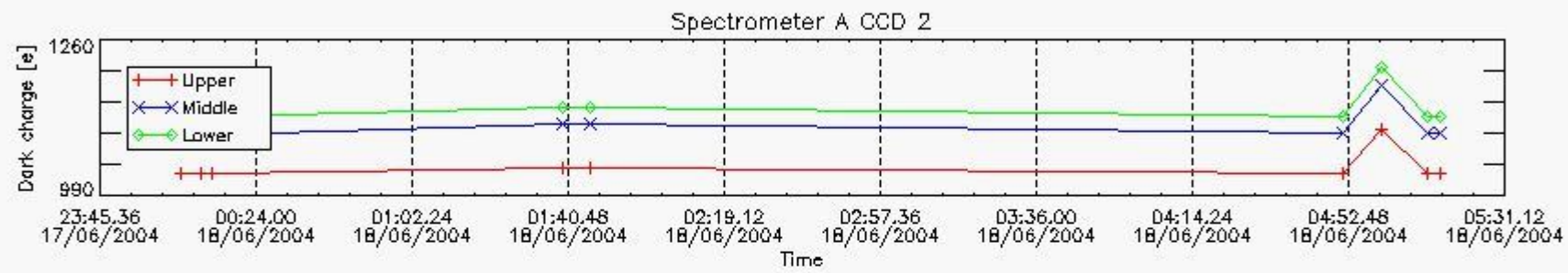
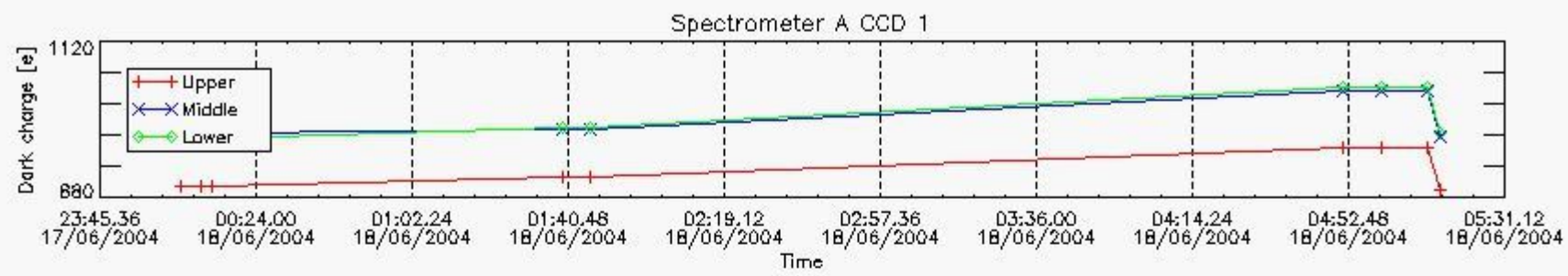
#### 4. Overview of dark signal processing per product

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

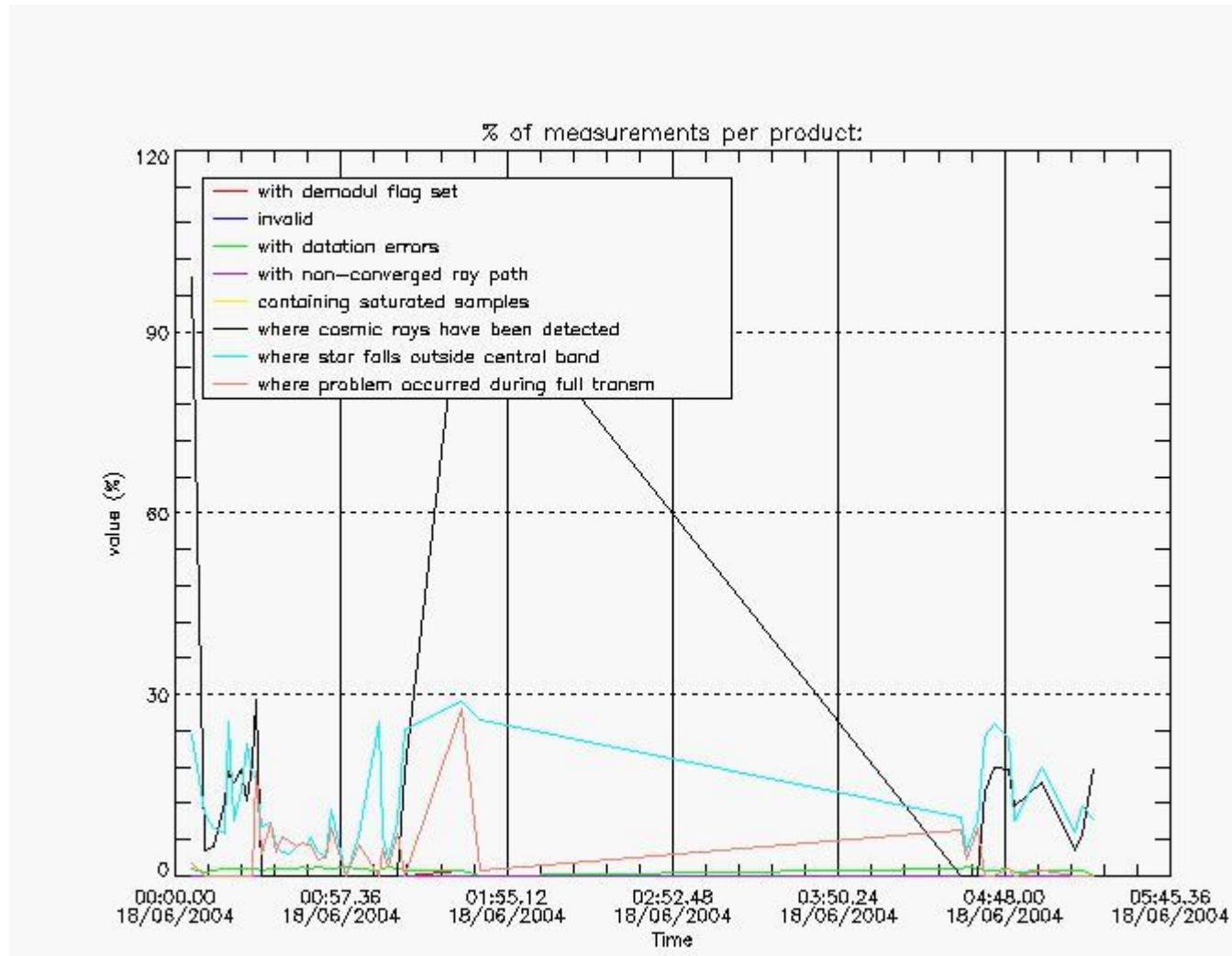
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

### 5.1 Percentage of products during reporting period with:

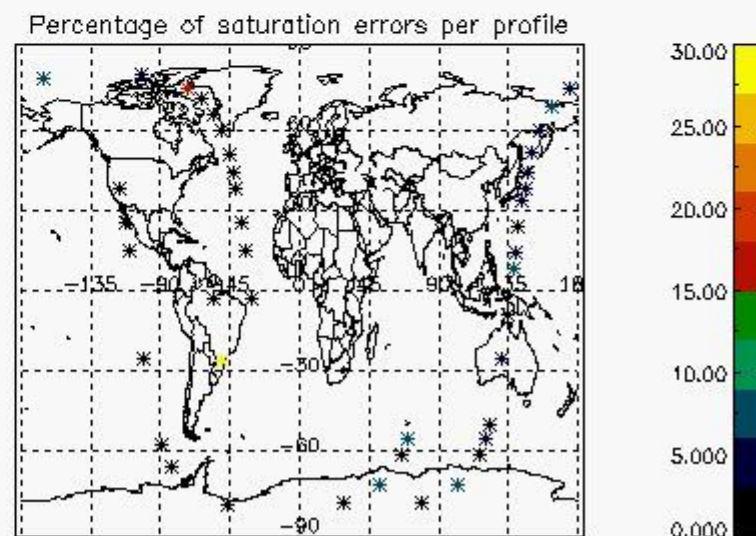
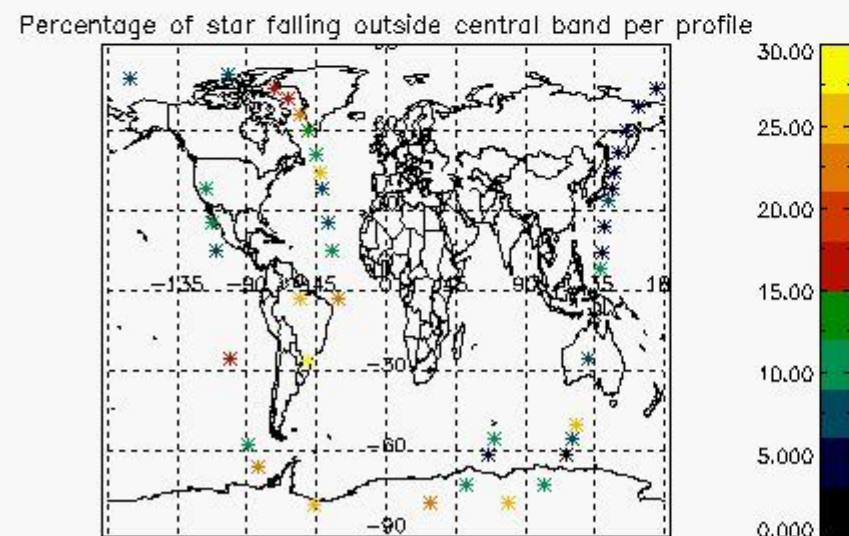
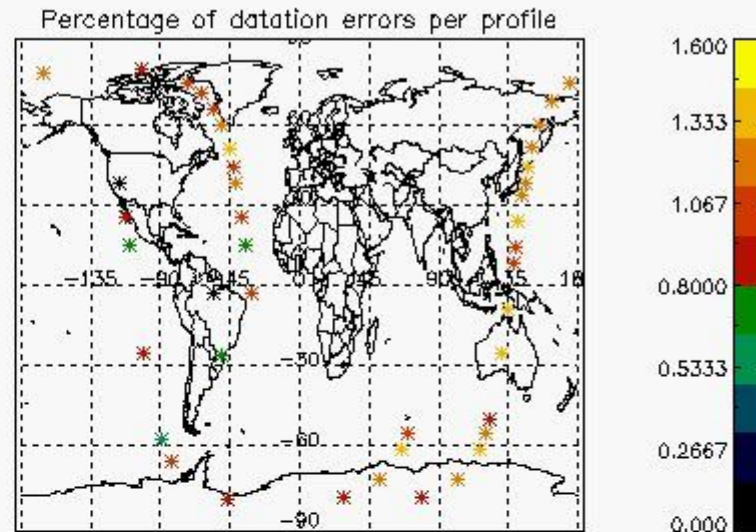
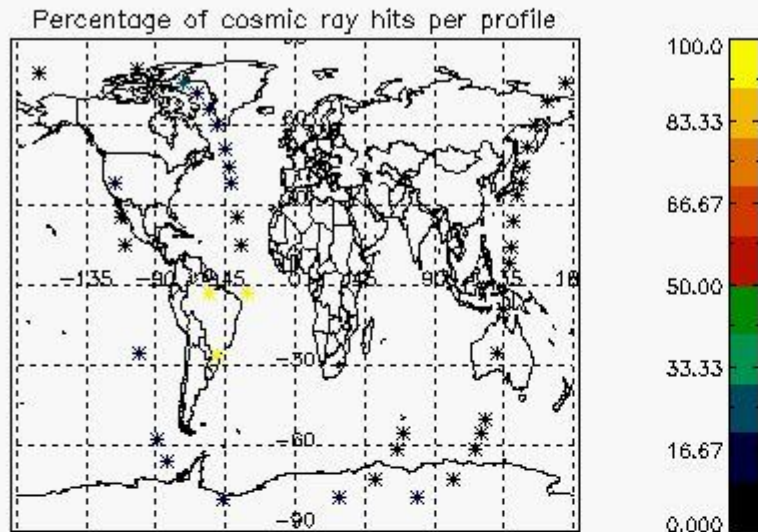


At least one measurement with demodulation flag set:	14.2857 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)



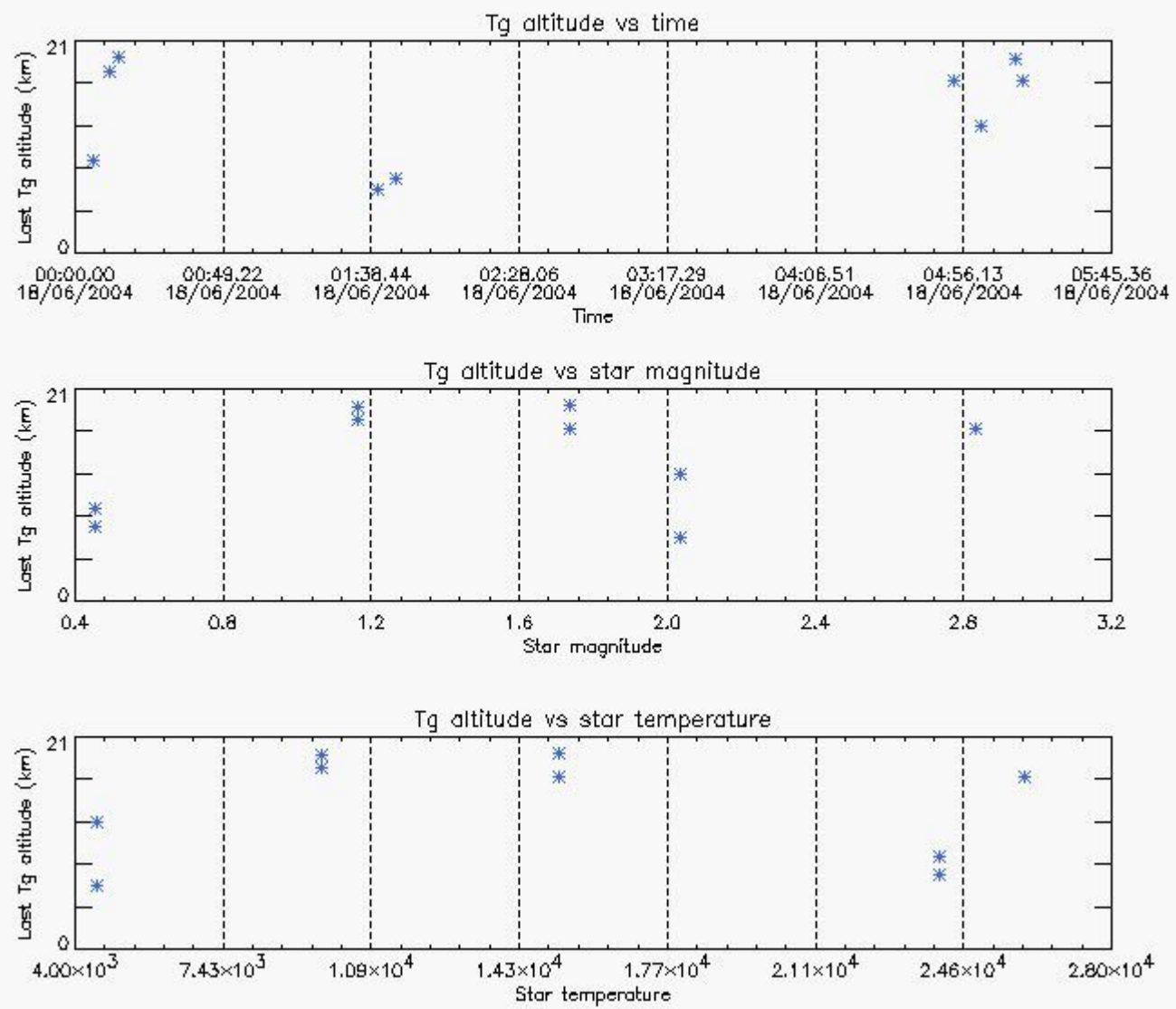
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.022	19.640	13.584
St. deviation:	5.2262	4.3351	5.1569
Maximum:	19.421	26.898	19.771
Minimum:	6.3045	9.6177	7.9542
Number of data:	9.0000	24.000	9.0000

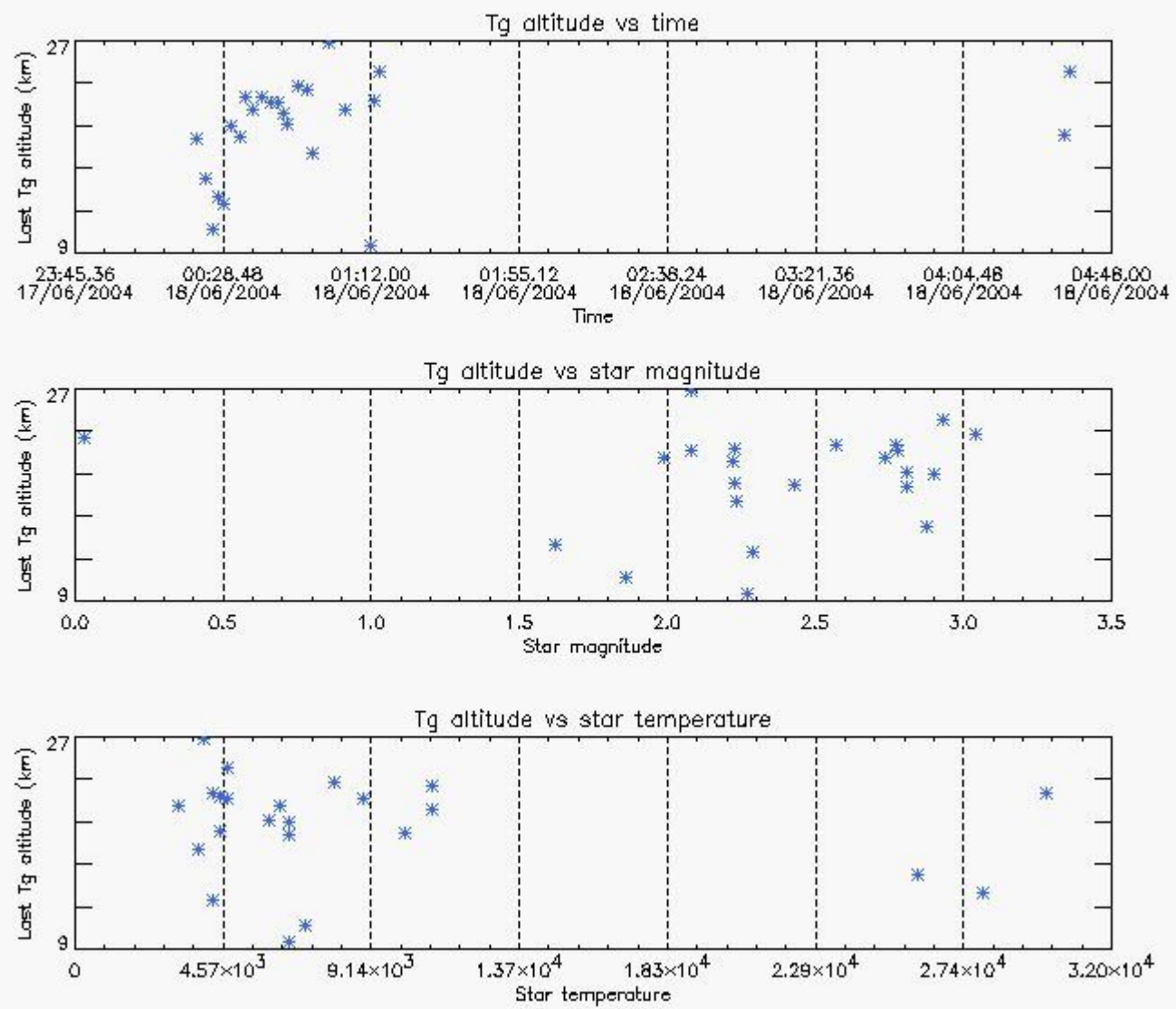
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

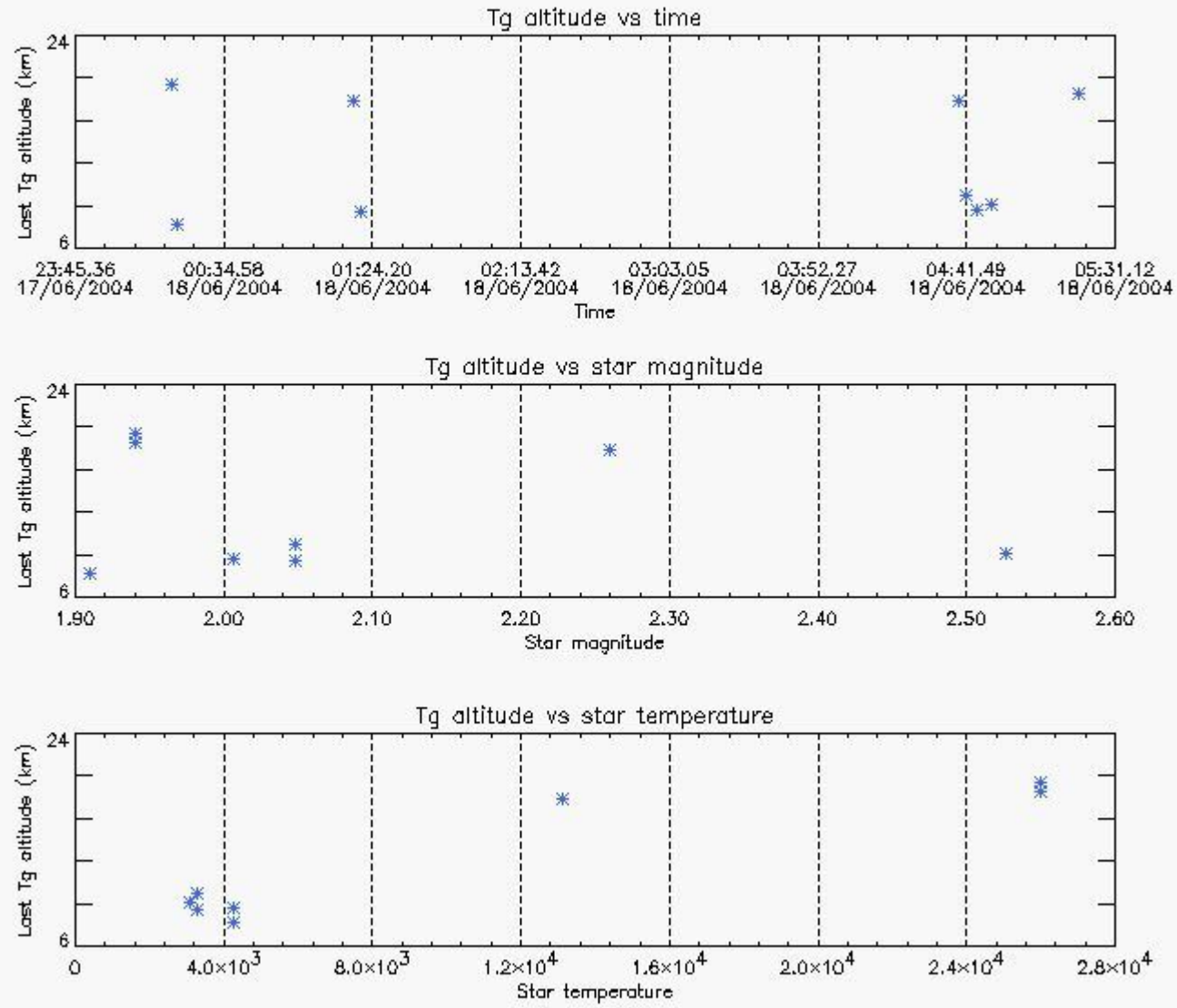
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



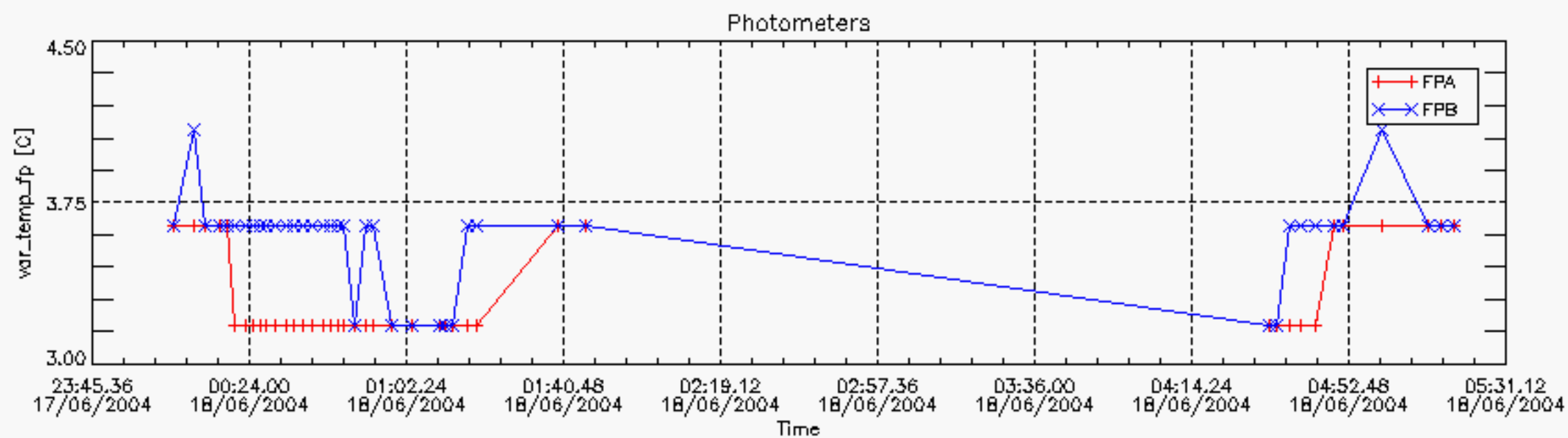
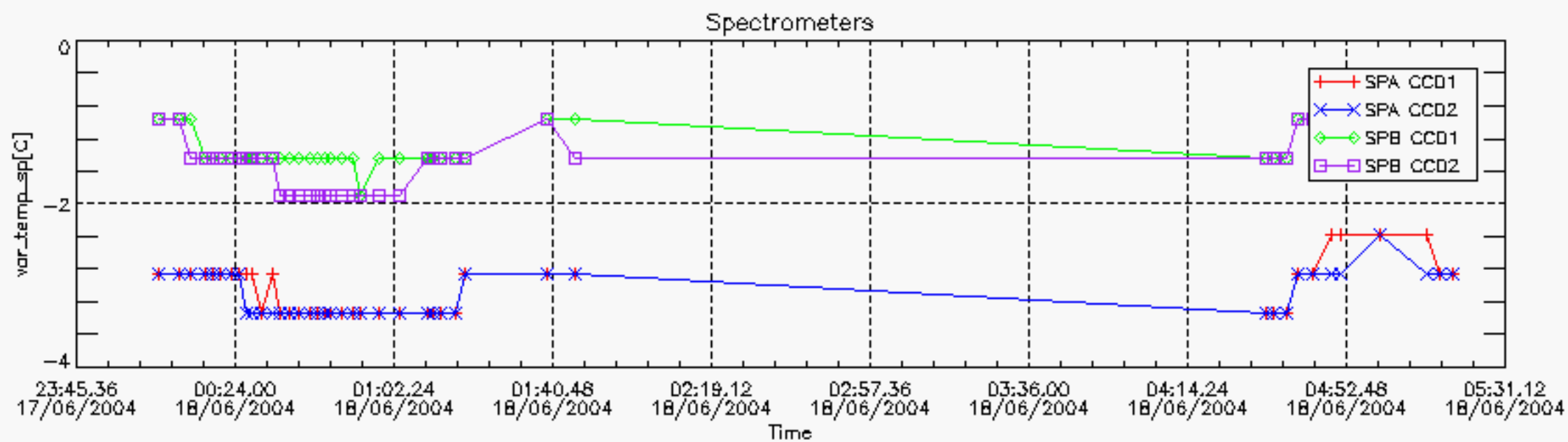
Tangent altitude at which the star is lost

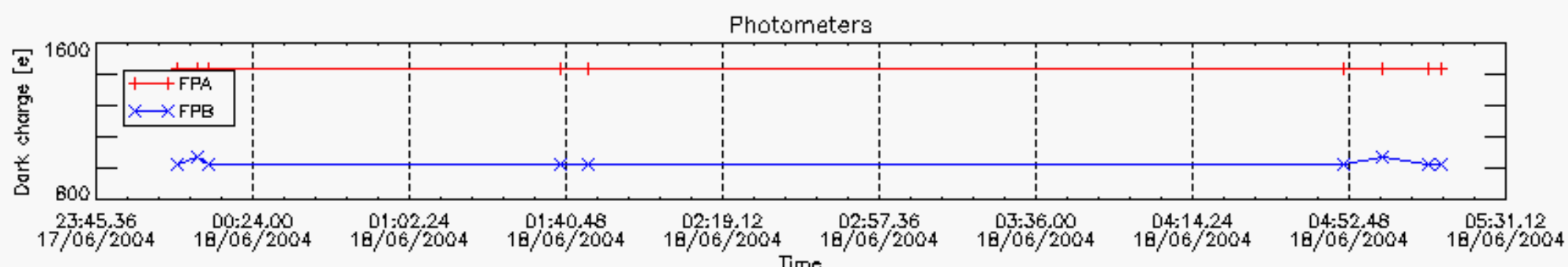
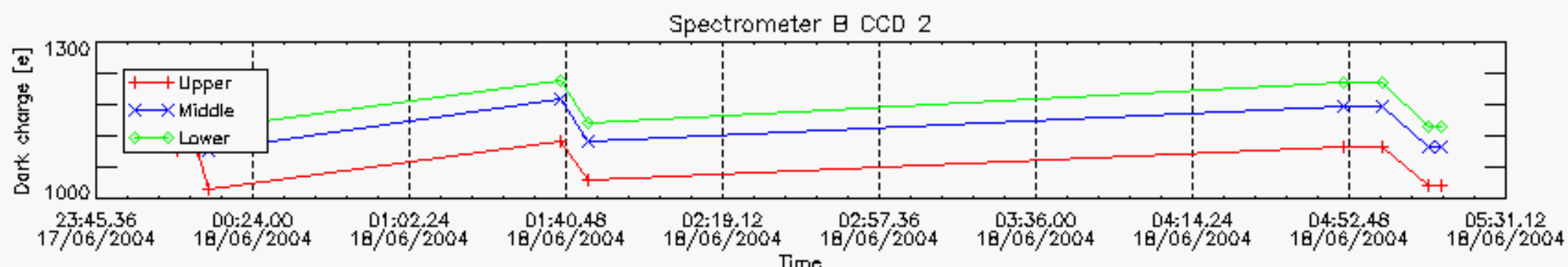
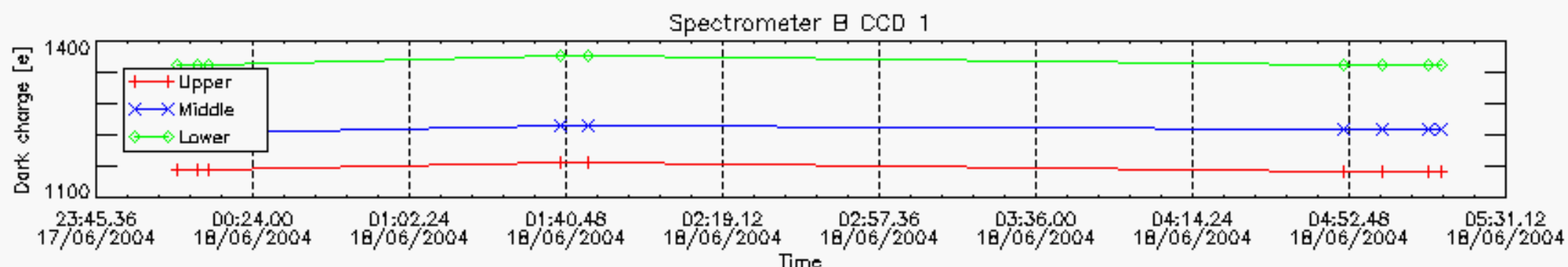
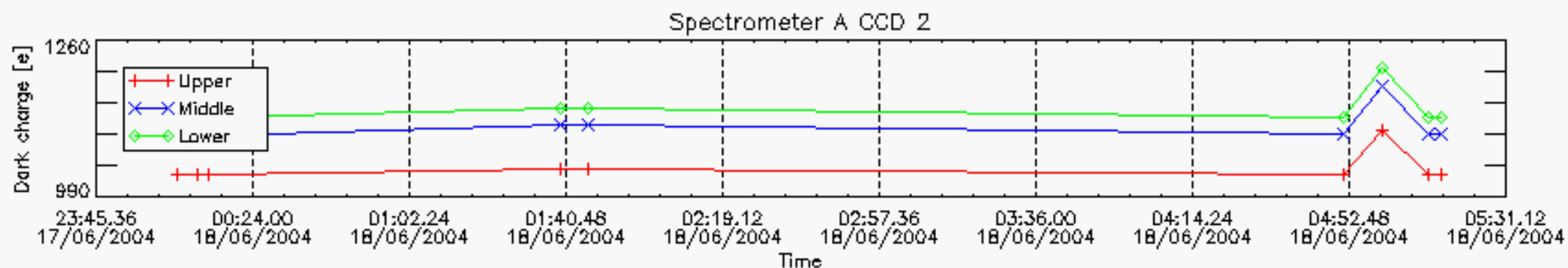
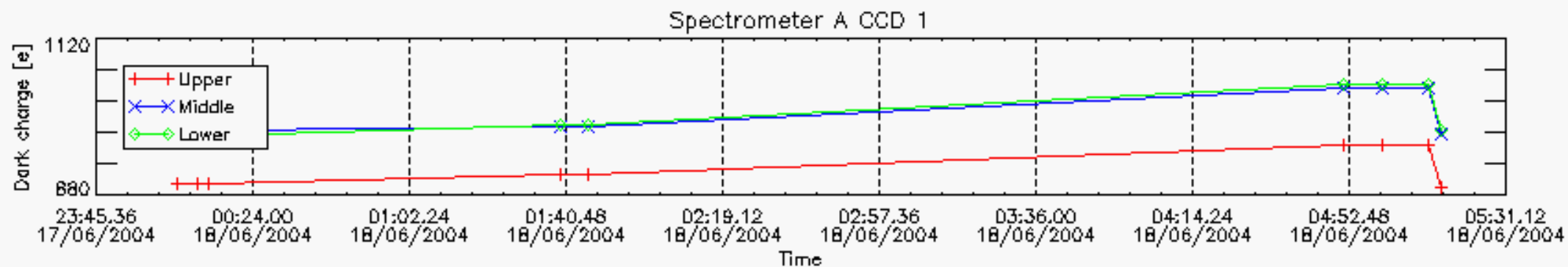


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1463.0	1449.9	1461.4	1446.8
St. deviation:	4.3368	6.1058	6.8554	7.8161
Maximum:	1506.0	1774.0	1508.0	1496.0
Minimum:	1447.0	1427.0	1434.0	1421.0
Number of data:	14550.	14550.	27550.	27550.

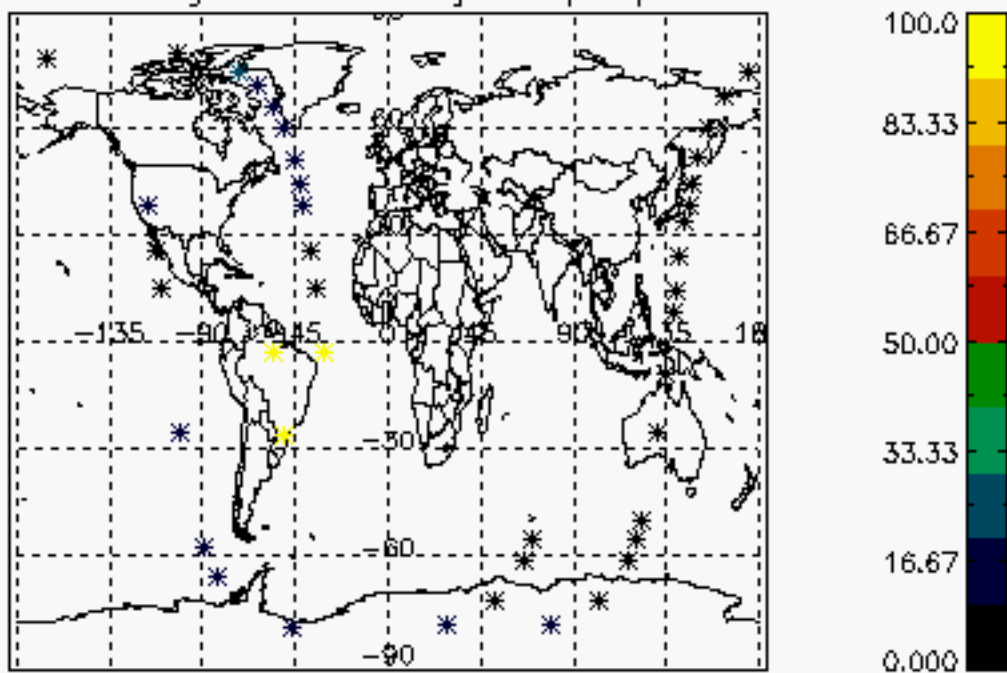




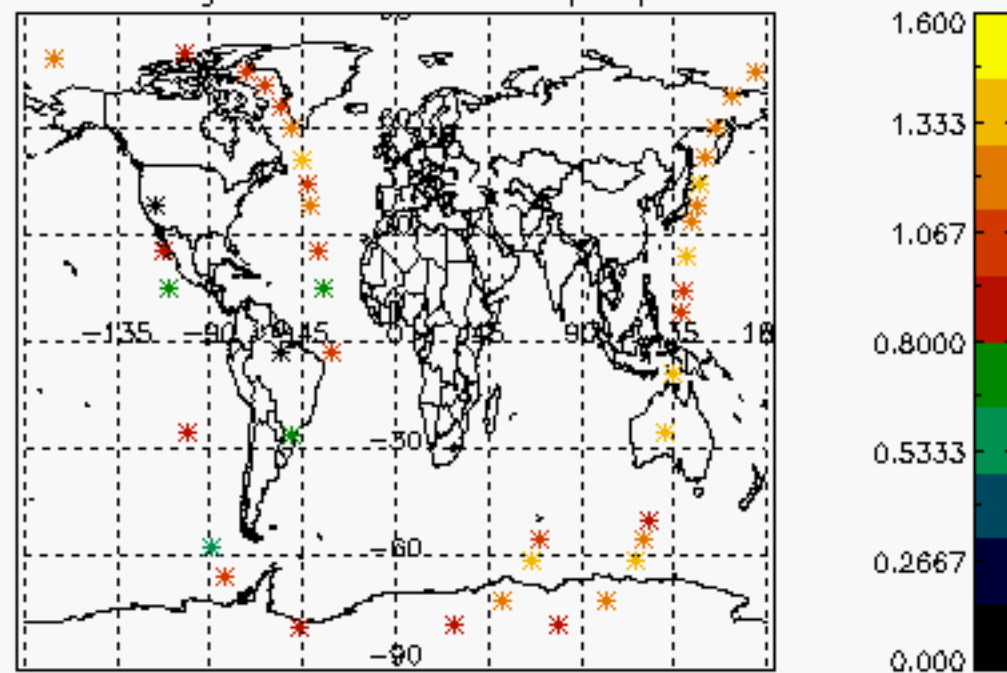




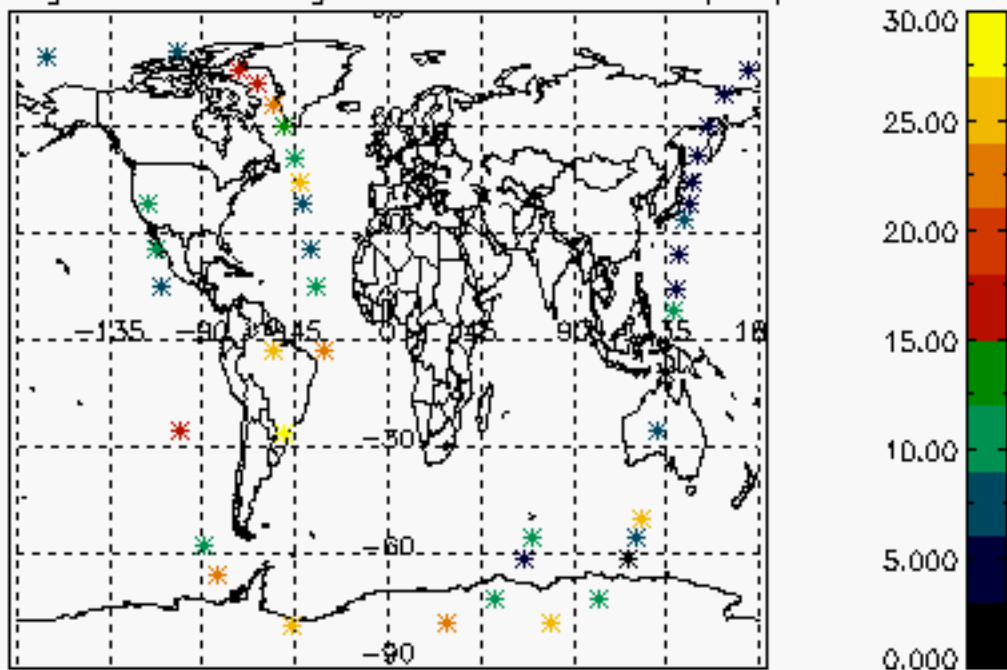
Percentage of cosmic ray hits per profile



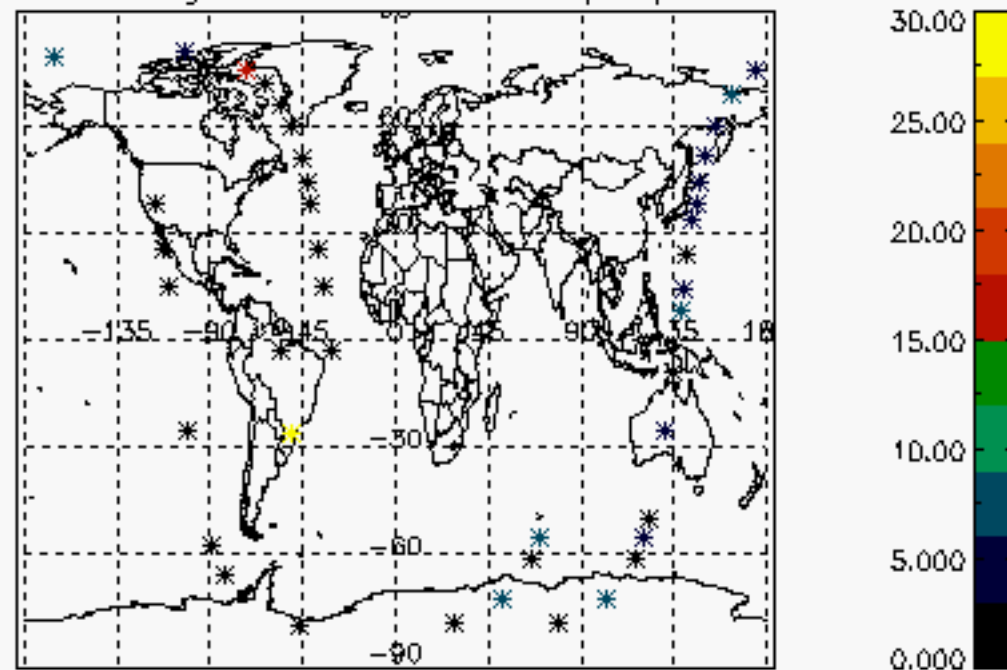
Percentage of datation errors per profile



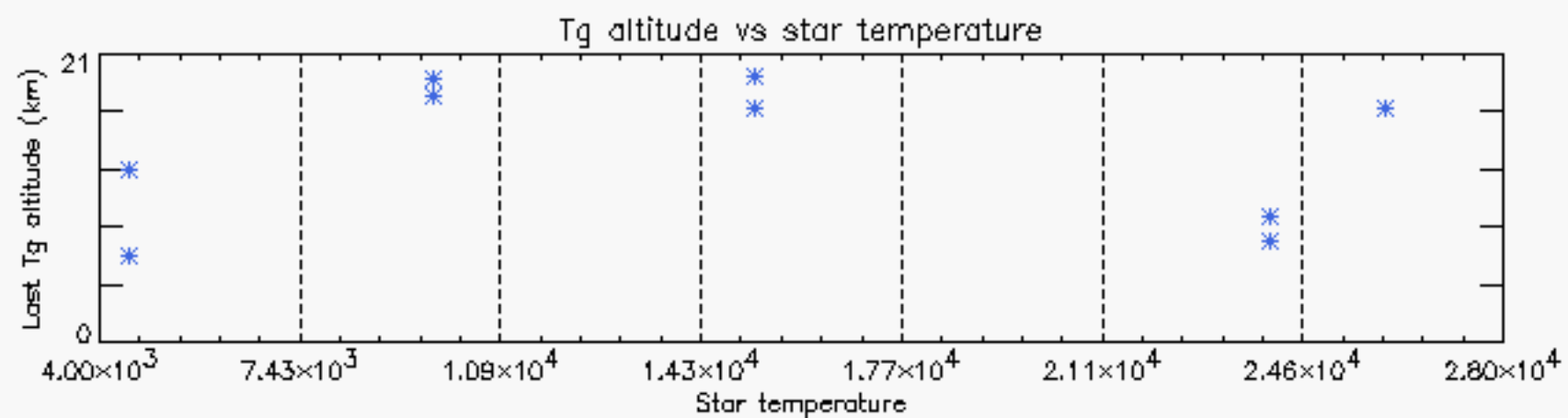
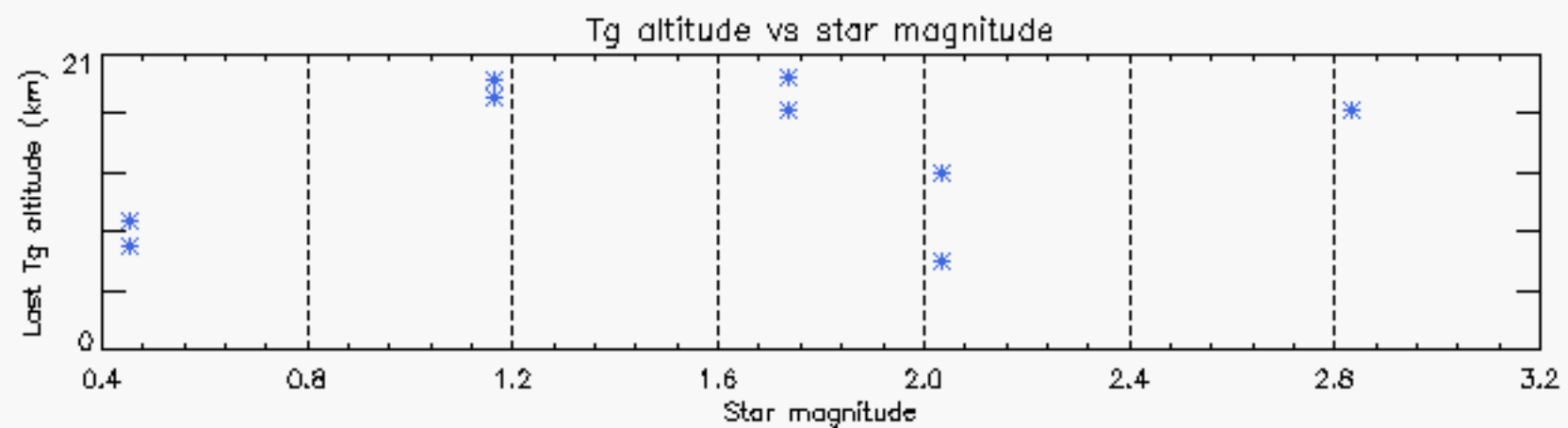
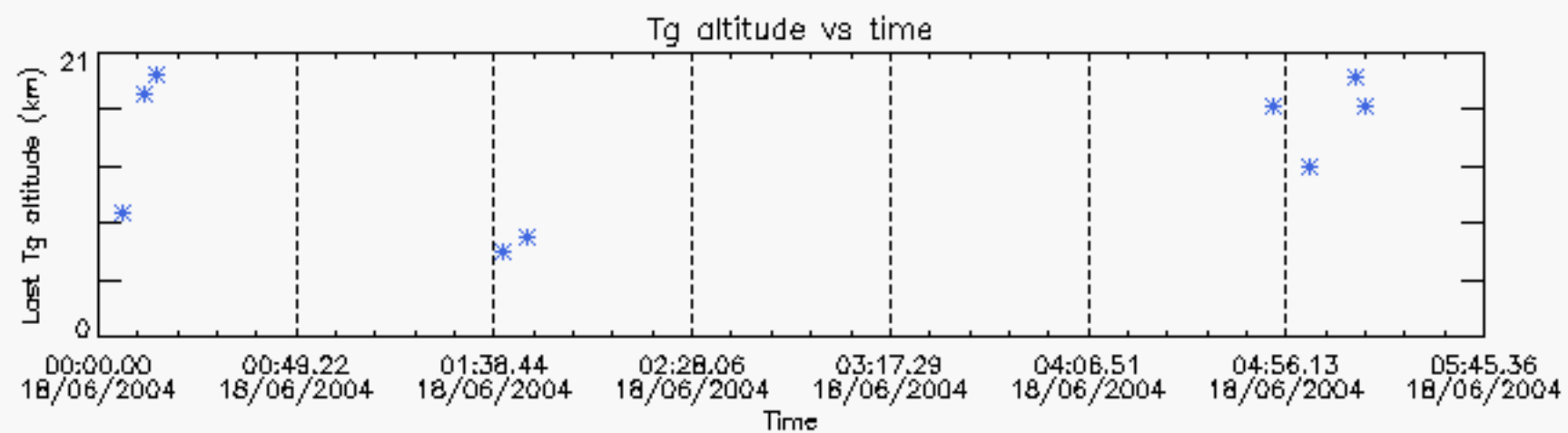
Percentage of star falling outside central band per profile



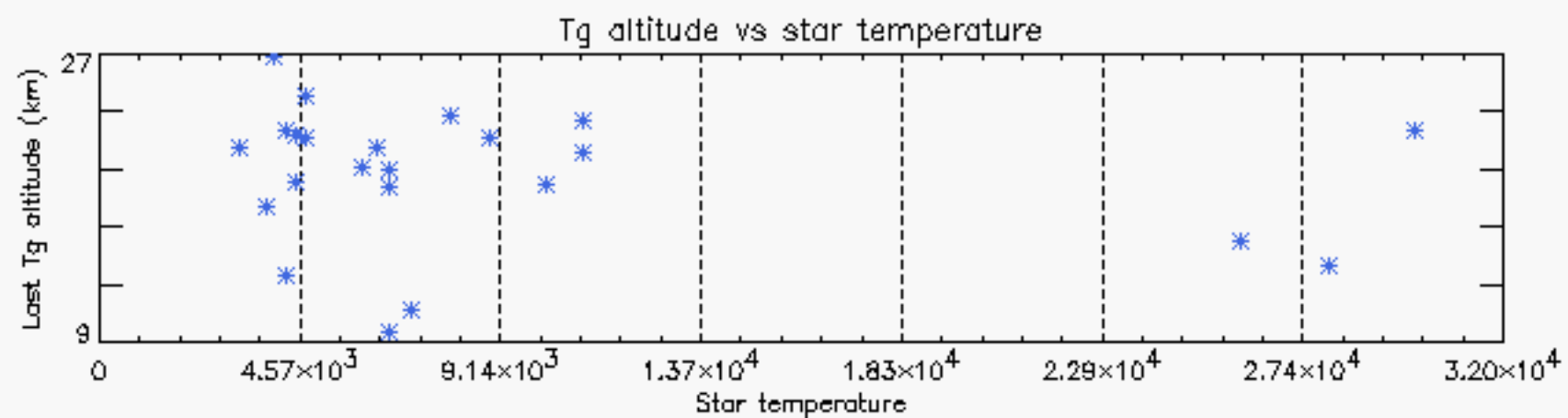
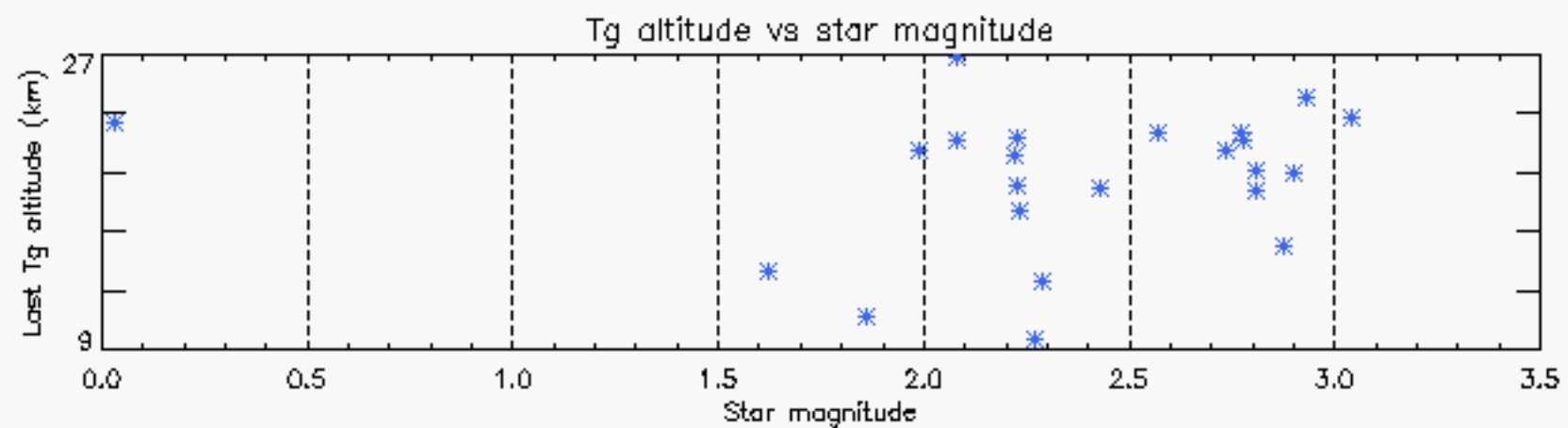
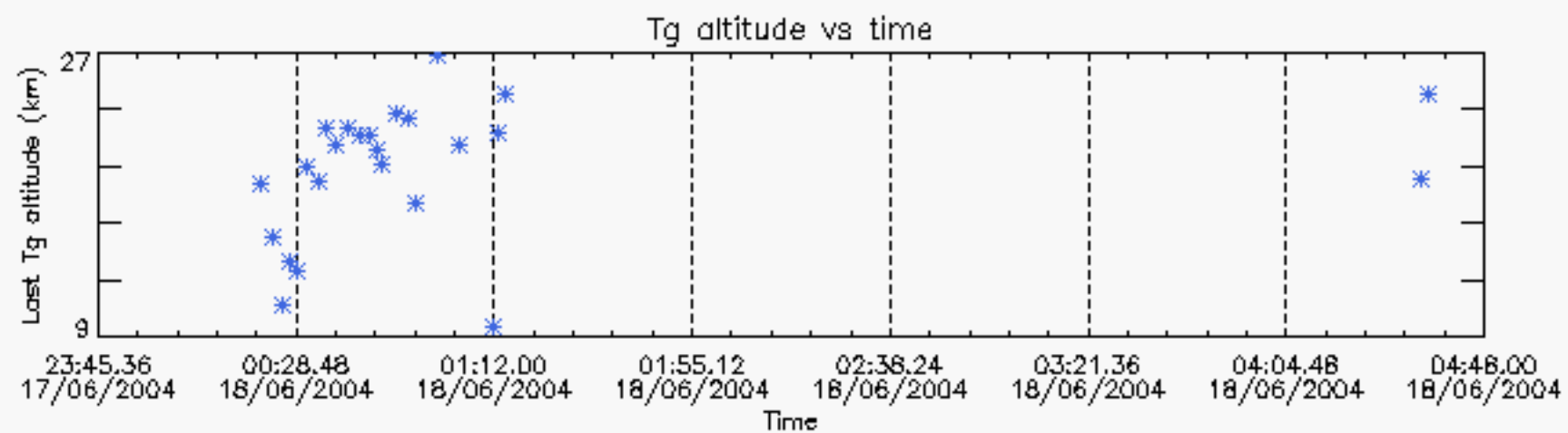
Percentage of saturation errors per profile



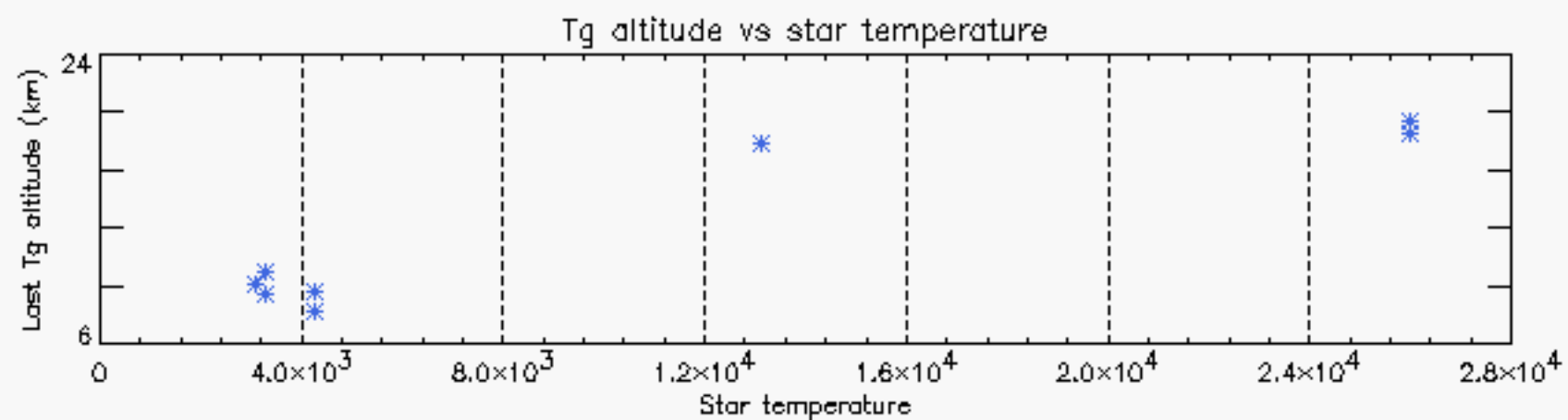
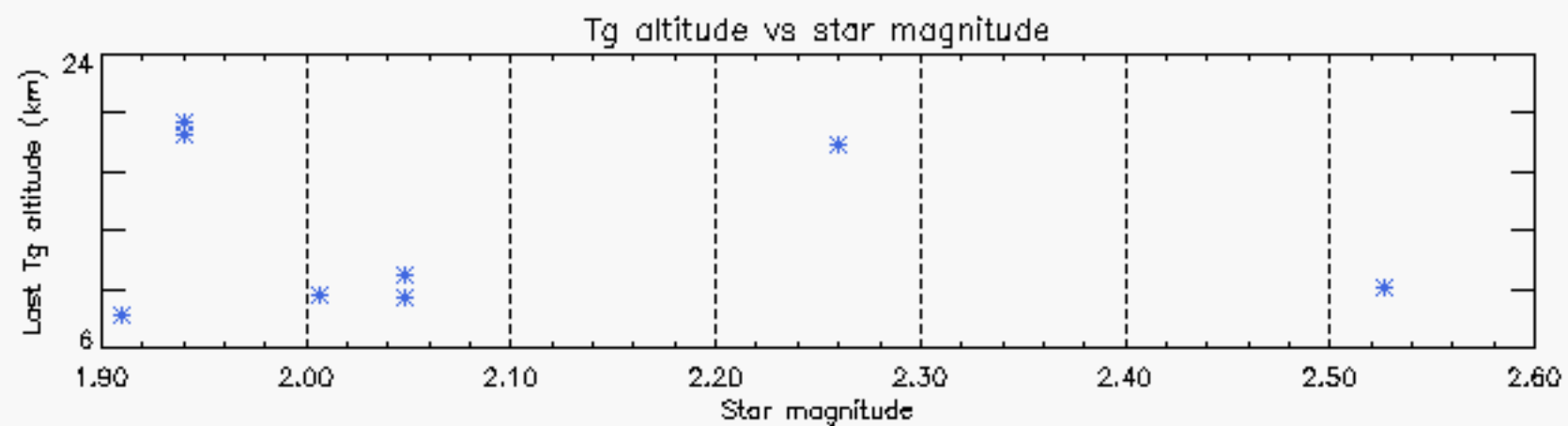
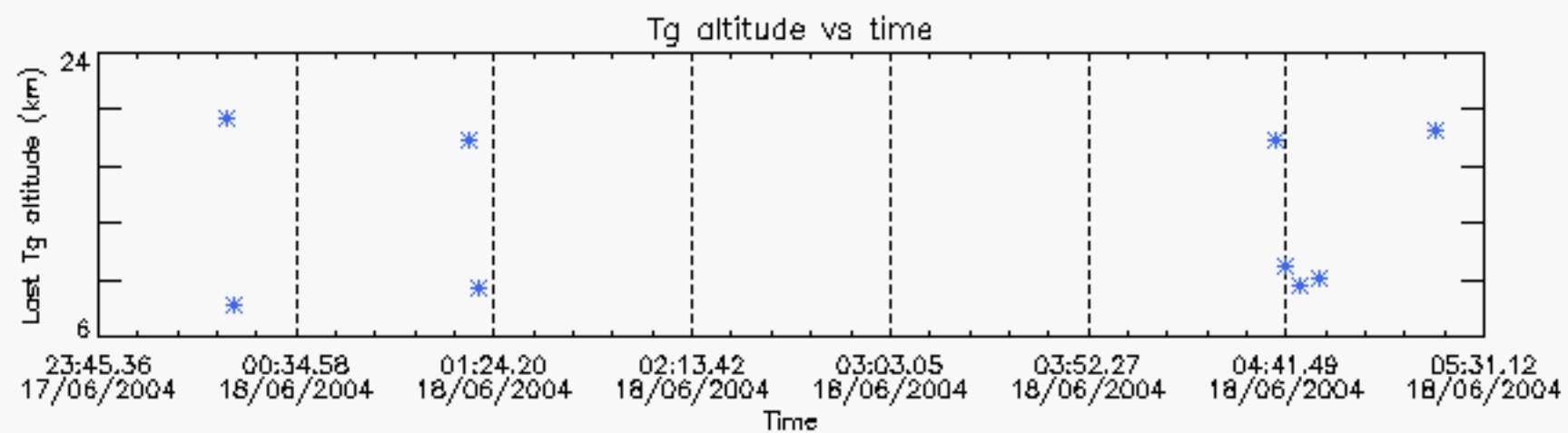
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 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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 34; 3186.7; 29-JUN-2004 05:15:04; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;12183  
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