

# GOMOS Daily Report 19-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	22JUN2004 03:43:39
Data source version	GOMOS/4.02
Start time of products	19-JUN-2004 (19JUN2004 00:00:00)
Stop time of products	20-JUN-2004 (20JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

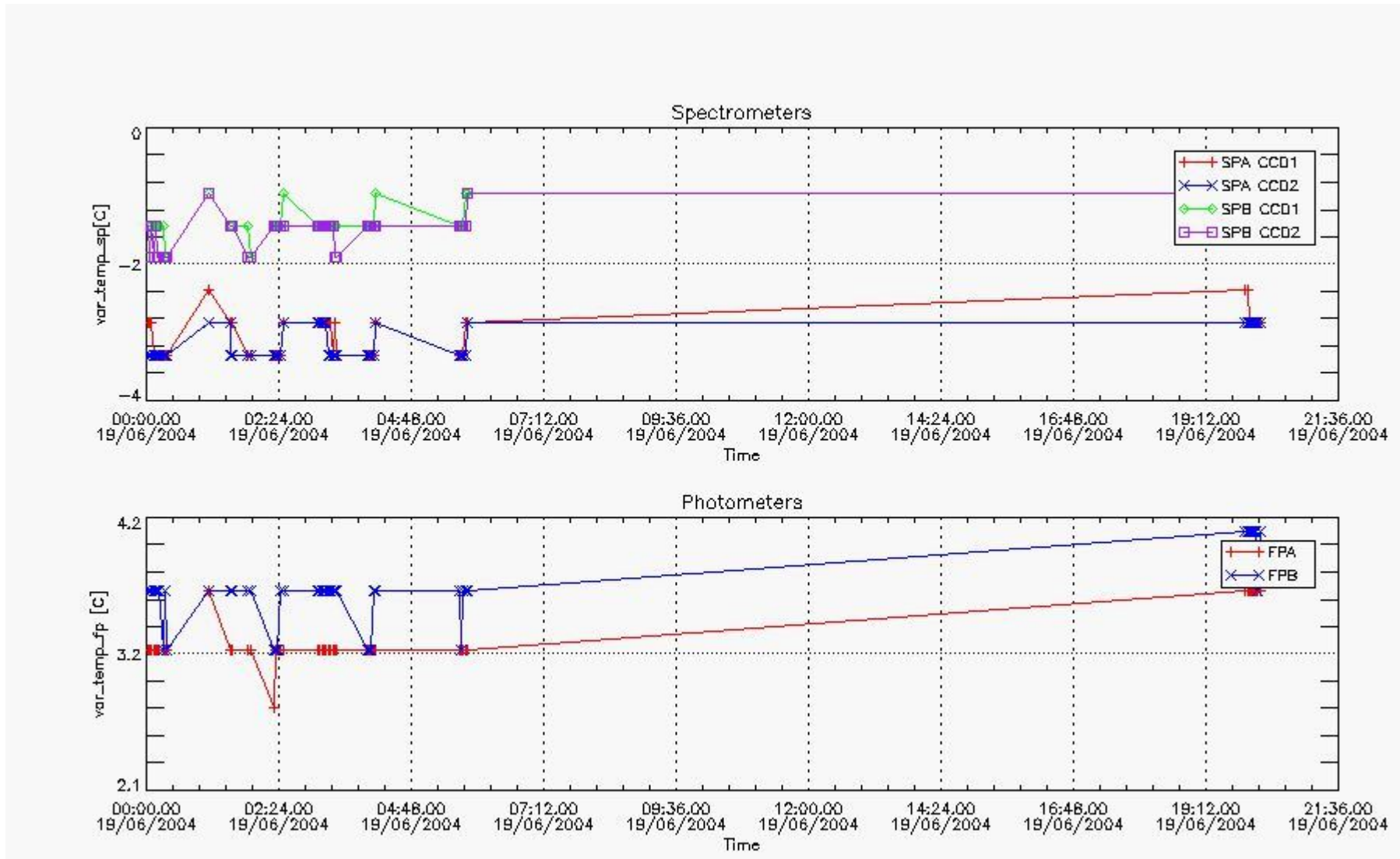
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040619_000130_000000422027_00460_12037_0012.N1	19-JUN-2004 00:01:30	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	12037	No
GOM_TRA_1PNPDE20040619_000315_000000382027_00460_12037_0013.N1	19-JUN-2004 00:03:15	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12037	No
GOM_TRA_1PNPDE20040619_000520_000000392027_00460_12037_0014.N1	19-JUN-2004 00:05:20	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12037	No
GOM_TRA_1PNPDE20040619_000748_000000432027_00460_12037_0015.N1	19-JUN-2004 00:07:48	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	12037	No
GOM_TRA_1PNPDE20040619_001016_000000432027_00460_12037_0016.N1	19-JUN-2004 00:10:16	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	12037	No
GOM_TRA_1PNPDE20040619_001225_000000392027_00460_12037_0017.N1	19-JUN-2004 00:12:25	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	12037	No
GOM_TRA_1PNPDE20040619_001406_000000392027_00460_12037_0018.N1	19-JUN-2004 00:14:06	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	12037	No
GOM_TRA_1PNPDE20040619_001814_000000372027_00460_12037_0019.N1	19-JUN-2004 00:18:14	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	12037	No
GOM_TRA_1PNPDE20040619_002031_000000462027_00460_12037_0020.N1	19-JUN-2004 00:20:31	Bright	45.500	5	3Alp Lyr	0.033000	11000.	91	12037	No
GOM_TRA_1PNPDE20040619_002224_000000452027_00460_12037_0021.N1	19-JUN-2004 00:22:24	Bright	44.500	69	33Gam Dra	2.2310	3800.0	89	12037	No
GOM_TRA_1PNPDE20040619_010807_000000672027_00460_12037_0000.N1	19-JUN-2004 01:08:07	Dark	67.000	52	16Bet Cet	2.0370	4500.0	134	12037	No
GOM_TRA_1PNPDE20040619_013048_000000432027_00461_12038_0006.N1	19-JUN-2004 01:30:48	Bright	43.000	141	Bet Ara	2.8400	4600.0	86	12038	No
GOM_TRA_1PNPDE20040619_013211_000000412027_00461_12038_0007.N1	19-JUN-2004 01:32:11	Bright	41.000	147	Alp Ara	2.8770	26000.	82	12038	No
GOM_TRA_1PNPDE20040619_013357_000000462027_00461_12038_0008.N1	19-JUN-2004 01:33:57	Bright	45.500	40	The Sco	1.8590	7100.0	91	12038	No
GOM_TRA_1PNPDE20040619_015049_000000442027_00461_12038_0016.N1	19-JUN-2004 01:50:49	Bright	44.000	59	55Alp Oph	2.0800	8900.0	88	12038	No
GOM_TRA_1PNPDE20040619_015302_000000372027_00461_12038_0017.N1	19-JUN-2004 01:53:02	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	12038	No
GOM_TRA_1PNPDE20040619_021926_000000472027_00461_12038_0000.N1	19-JUN-2004 02:19:26	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	12038	No
GOM_TRA_1PNPDE20040619_022055_000000462027_00461_12038_0001.N1	19-JUN-2004 02:20:55	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	12038	No
GOM_TRA_1PNPDE20040619_022252_000000532027_00461_12038_0002.N1	19-JUN-2004 02:22:52	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	12038	No
GOM_TRA_1PNPDE20040619_022618_000000452027_00461_12038_0003.N1	19-JUN-2004 02:26:18	Twilight	44.500	73	57Gam1And	2.2600	13100.	89	12038	No
GOM_TRA_1PNPDE20040619_022841_000000692027_00461_12038_0004.N1	19-JUN-2004 02:28:41	Twilight	69.000	53	43Bet And	2.0480	3300.0	138	12038	No
GOM_TRA_1PNPDE20040619_030640_000000452027_00462_12039_0012.N1	19-JUN-2004 03:06:40	Twilight	44.500	45	Alp Pav	1.9400	26000.	89	12039	No
GOM_TRA_1PNPDE20040619_030816_000000432027_00462_12039_0013.N1	19-JUN-2004 03:08:16	Twilight	42.500	43	Alp TrA	1.9100	4250.0	85	12039	No
GOM_TRA_1PNPDE20040619_031125_000000432027_00462_12039_0014.N1	19-JUN-2004 03:11:25	Bright	42.500	141	Bet Ara	2.8400	4600.0	85	12039	No
GOM_TRA_1PNPDE20040619_031248_000000392027_00462_12039_0015.N1	19-JUN-2004 03:12:48	Bright	38.500	147	Alp Ara	2.8770	26000.	77	12039	No
GOM_TRA_1PNPDE20040619_031434_000000432027_00462_12039_0016.N1	19-JUN-2004 03:14:34	Bright	43.000	40	The Sco	1.8590	7100.0	86	12039	No
GOM_TRA_1PNPDE20040619_031738_000000462027_00462_12039_0018.N1	19-JUN-2004 03:17:38	Bright	46.000	75	26Eps Sco	2.2910	4250.0	92	12039	No
GOM_TRA_1PNPDE20040619_031948_000000552027_00462_12039_0019.N1	19-JUN-2004 03:19:48	Bright	55.000	155	41Pi Sgr	2.9000	6600.0	110	12039	No
GOM_TRA_1PNPDE20040619_032243_000000402027_00462_12039_0020.N1	19-JUN-2004 03:22:43	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	12039	No
GOM_TRA_1PNPDE20040619_032427_000000392027_00462_12039_0021.N1	19-JUN-2004 03:24:27	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	12039	No
GOM_TRA_1PNPDE20040619_032632_000000392027_00462_12039_0022.N1	19-JUN-2004 03:26:32	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12039	No
GOM_TRA_1PNPDE20040619_040003_000000472027_00462_12039_0000.N1	19-JUN-2004 04:00:03	Bright	47.000	74	11Bet Cas	2.2680	6600.0	94	12039	No
GOM_TRA_1PNPDE20040619_040130_000000462027_00462_12039_0001.N1	19-JUN-2004 04:01:30	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	12039	No
GOM_TRA_1PNPDE20040619_040328_000000512027_00462_12039_0002.N1	19-JUN-2004 04:03:28	Bright	50.500	160	23Gam Per	2.9300	4700.0	101	12039	No
GOM_TRA_1PNPDE20040619_040653_000000442027_00462_12039_0003.N1	19-JUN-2004 04:06:53	Twilight	44.000	73	57Gam1And	2.2600	13100.	88	12039	No
GOM_TRA_1PNPDE20040619_040917_000000672027_00462_12039_0004.N1	19-JUN-2004 04:09:17	Twilight	66.500	53	43Bet And	2.0480	3300.0	133	12039	No
GOM_TRA_1PNPDE20040619_054038_000000462027_00463_12040_0000.N1	19-JUN-2004 05:40:38	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	12040	No
GOM_TRA_1PNPDE20040619_054207_000000452027_00463_12040_0001.N1	19-JUN-2004 05:42:07	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	12040	No
GOM_TRA_1PNPDE20040619_054404_000000532027_00463_12040_0002.N1	19-JUN-2004 05:44:04	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	12040	No
GOM_TRA_1PNPDE20040619_054727_000000472027_00463_12040_0003.N1	19-JUN-2004 05:47:27	Twilight	46.500	73	57Gam1And	2.2600	13100.	93	12040	No
GOM_TRA_1PNPDE20040619_054949_000000462027_00463_12040_0004.N1	19-JUN-2004 05:49:49	Twilight	45.500	173	4Bet Tri	3.0040	8900.0	91	12040	No
GOM_TRA_1PNPDE20040619_195417_000000402027_00472_12049_0000.N1	19-JUN-2004 19:54:17	Twilight	39.500	43	Alp TrA	1.9100	4250.0	79	12049	No
GOM_TRA_1PNPDE20040619_195726_000000402027_00472_12049_0001.N1	19-JUN-2004 19:57:26	Bright	40.000	141	Bet Ara	2.8400	4600.0	80	12049	No
GOM_TRA_1PNPDE20040619_195849_000000412027_00472_12049_0002.N1	19-JUN-2004 19:58:49	Bright	41.000	147	Alp Ara	2.8770	26000.	82	12049	No
GOM_TRA_1PNPDE20040619_200035_000000442027_00472_12049_0003.N1	19-JUN-2004 20:00:35	Bright	44.000	40	The Sco	1.8590	7100.0	88	12049	No
GOM_TRA_1PNPDE20040619_200217_000000462027_00472_12049_0004.N1	19-JUN-2004 20:02:17	Bright	45.500	25	35Lam Sco	1.6200	28000.	91	12049	No
GOM_TRA_1PNPDE20040619_200340_000000432027_00472_12049_0005.N1	19-JUN-2004 20:03:40	Bright	43.000	75	26Eps Sco	2.2910	4250.0	86	12049	No
GOM_TRA_1PNPDE20040619_200550_000000532027_00472_12049_0006.N1	19-JUN-2004 20:05:50	Bright	53.000	155	41Pi Sgr	2.9000	6600.0	106	12049	No
GOM_TRA_1PNPDE20040619_200843_000000412027_00472_12049_0007.N1	19-JUN-2004 20:08:43	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	12049	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.

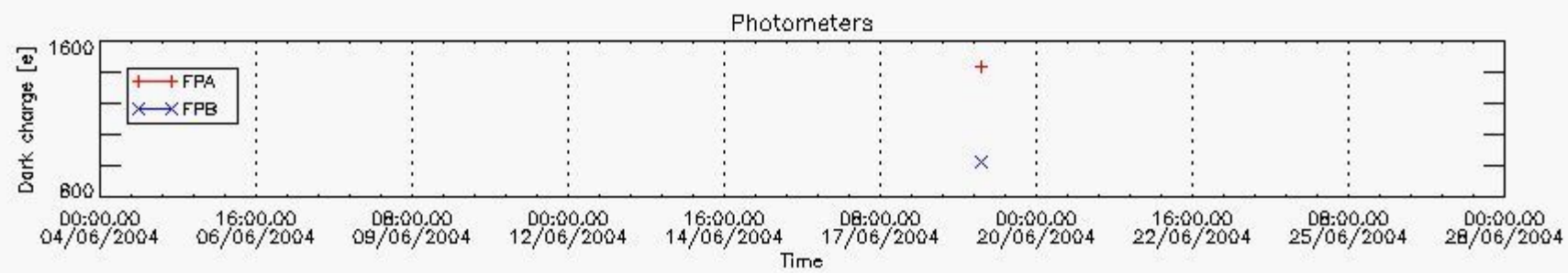
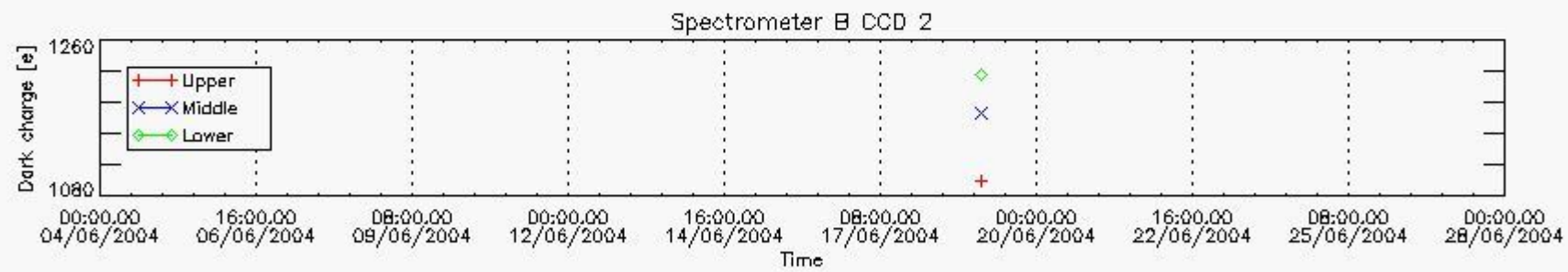
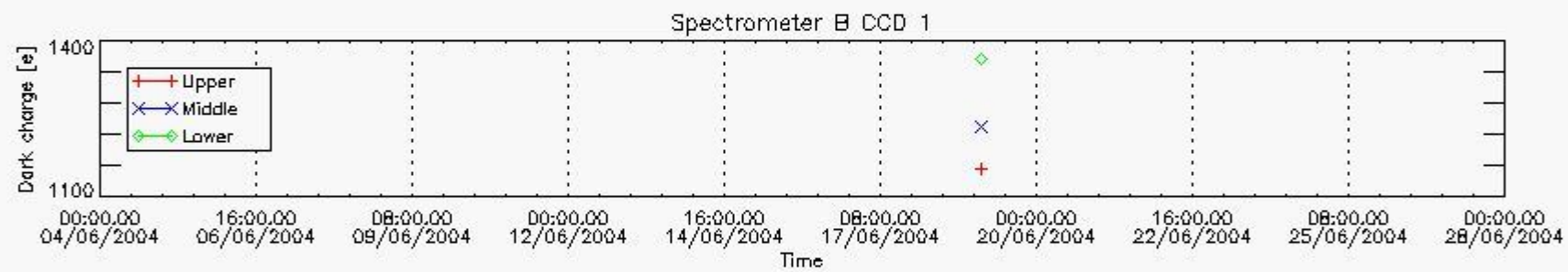
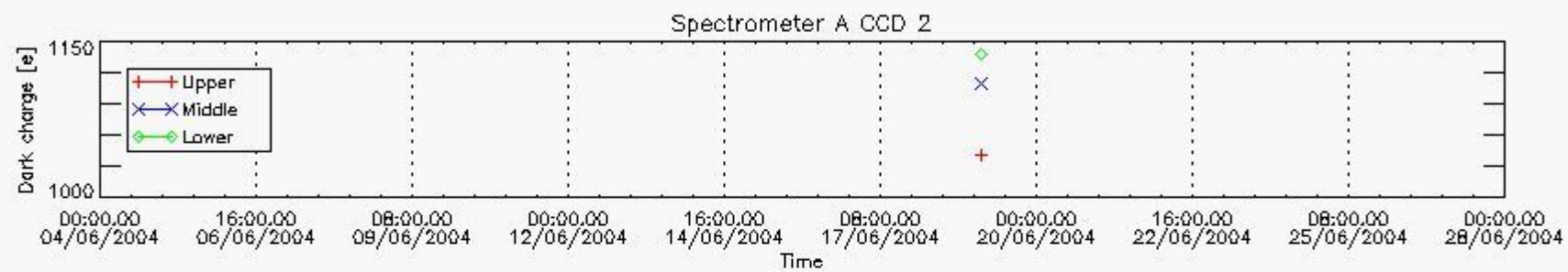
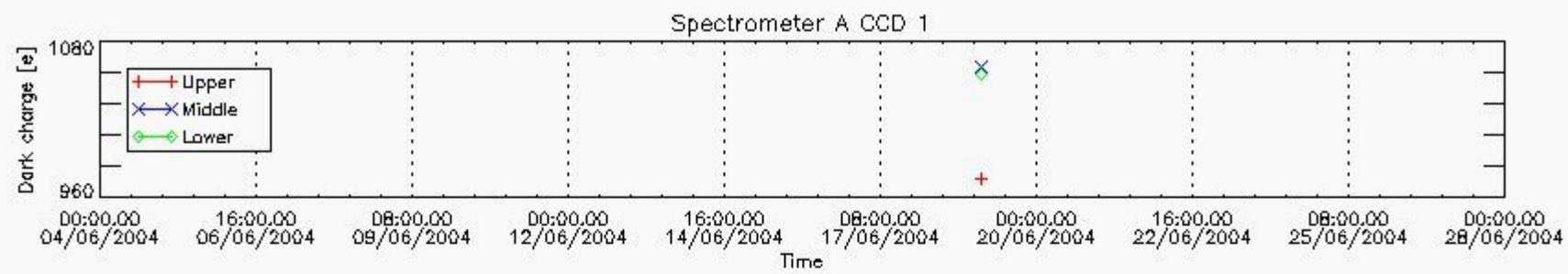
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040619_040003_000000472027_00462_12039_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_040130_000000462027_00462_12039_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_040328_000000512027_00462_12039_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_040653_000000442027_00462_12039_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_040917_000000672027_00462_12039_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_054038_000000462027_00463_12040_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_054207_000000452027_00463_12040_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_054404_000000532027_00463_12040_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_054727_000000472027_00463_12040_0003.N1	DC map used (0)

GOM_TRA_1PNPDE20040619_054949_000000462027_00463_12040_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_195417_000000402027_00472_12049_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_195726_000000402027_00472_12049_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_195849_000000412027_00472_12049_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_200035_000000442027_00472_12049_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_200217_000000462027_00472_12049_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_200340_000000432027_00472_12049_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_200550_000000532027_00472_12049_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_200843_000000412027_00472_12049_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20040619_201027_000000252027_00472_12049_0008.N1	DC map used (0)

*4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used*





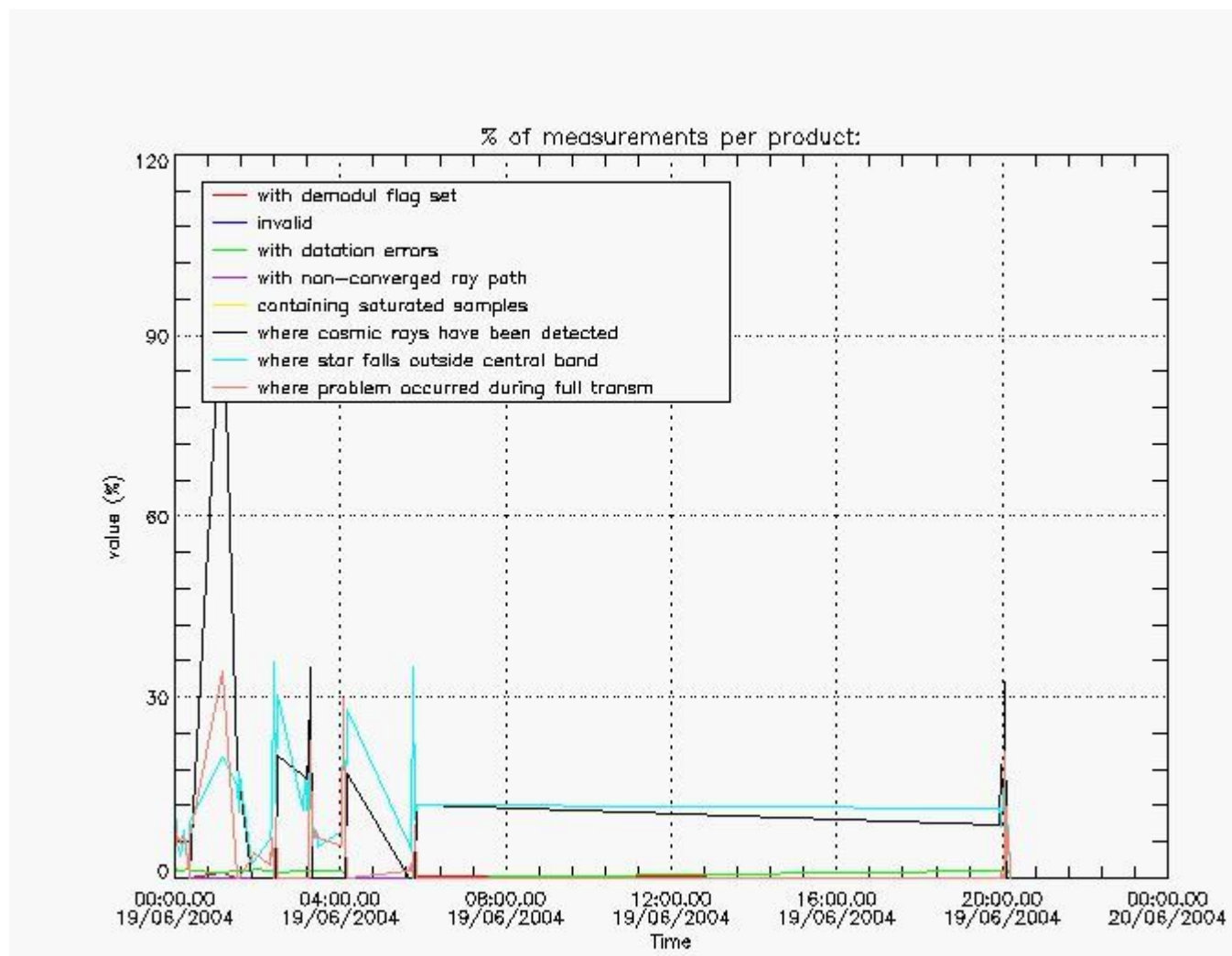
## 5. Demodulation flag and quality information monitoring

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:

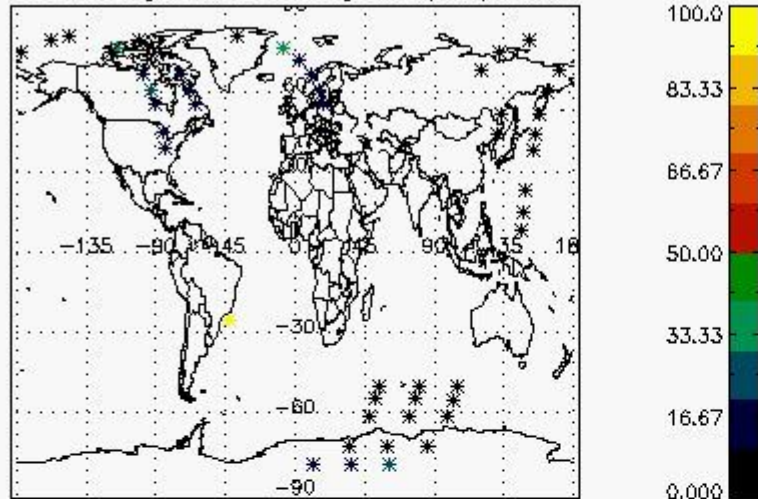
At least one measurement with demodulation flag set:	6.00000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

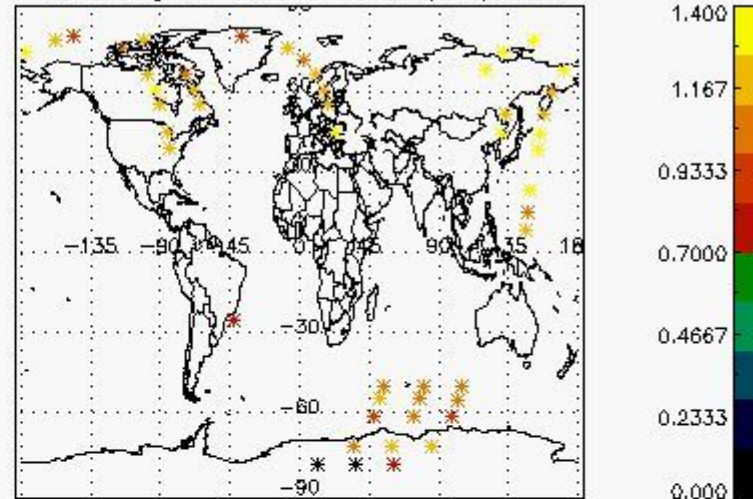


5.3 Plot quality information per product (world map)

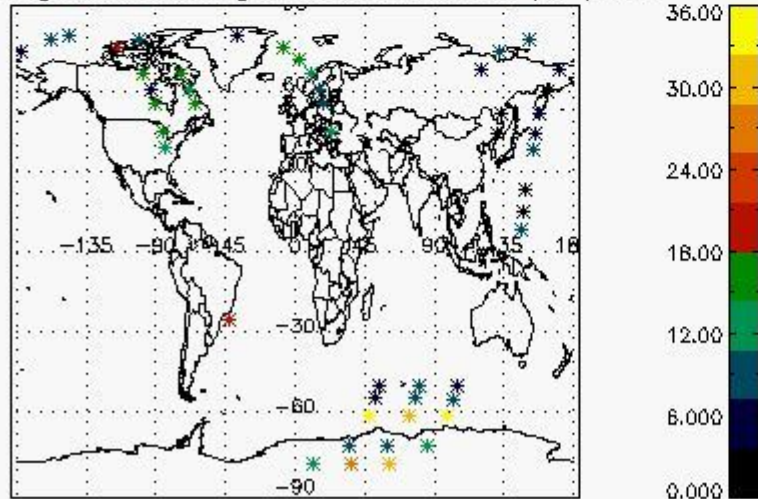
Percentage of cosmic ray hits per profile



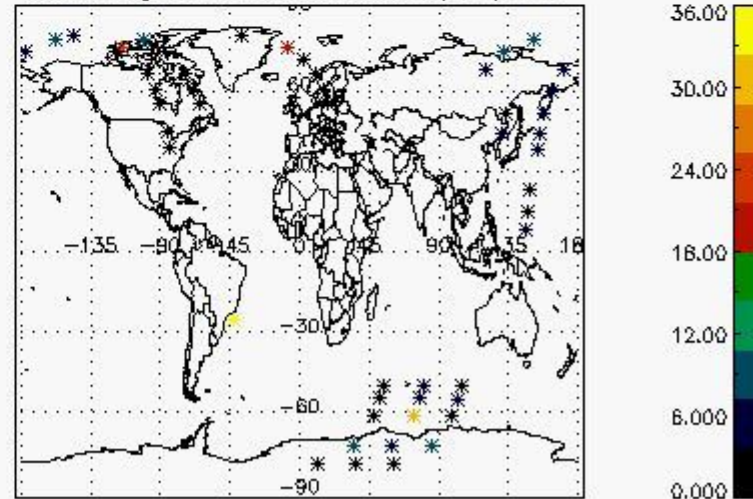
Percentage of datation errors per profile



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)

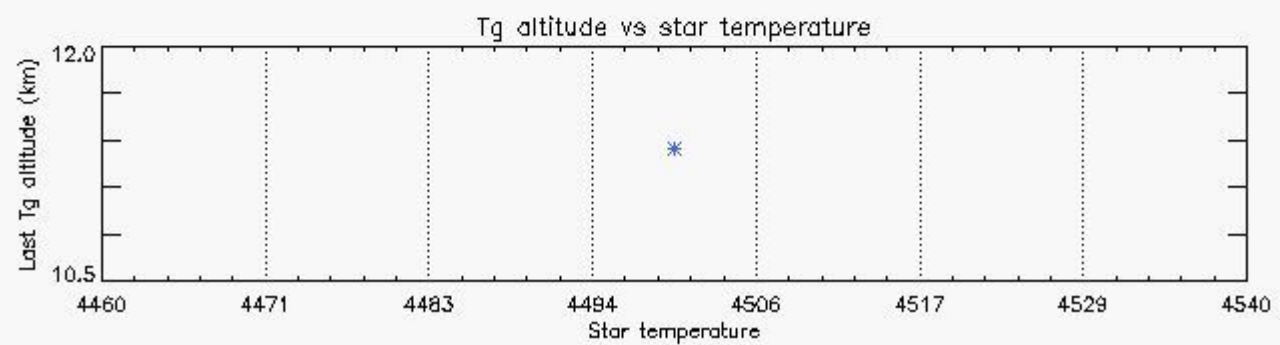
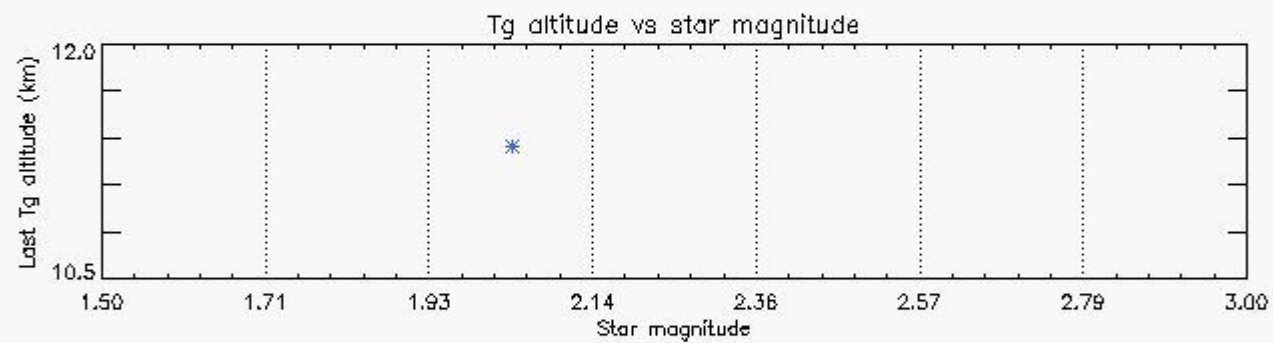
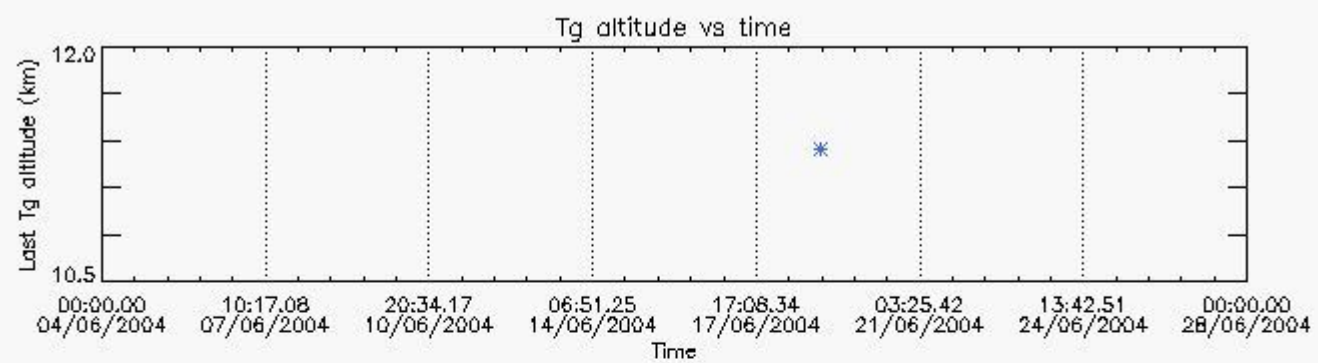
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.346	18.076	19.725
St. deviation:	0.0000	4.8855	15.865
Maximum:	11.346	26.656	63.056
Minimum:	11.346	5.0732	5.9376
Number of data:	1.0000	39.000	10.000

### 6.2 Plot for DARK limb products



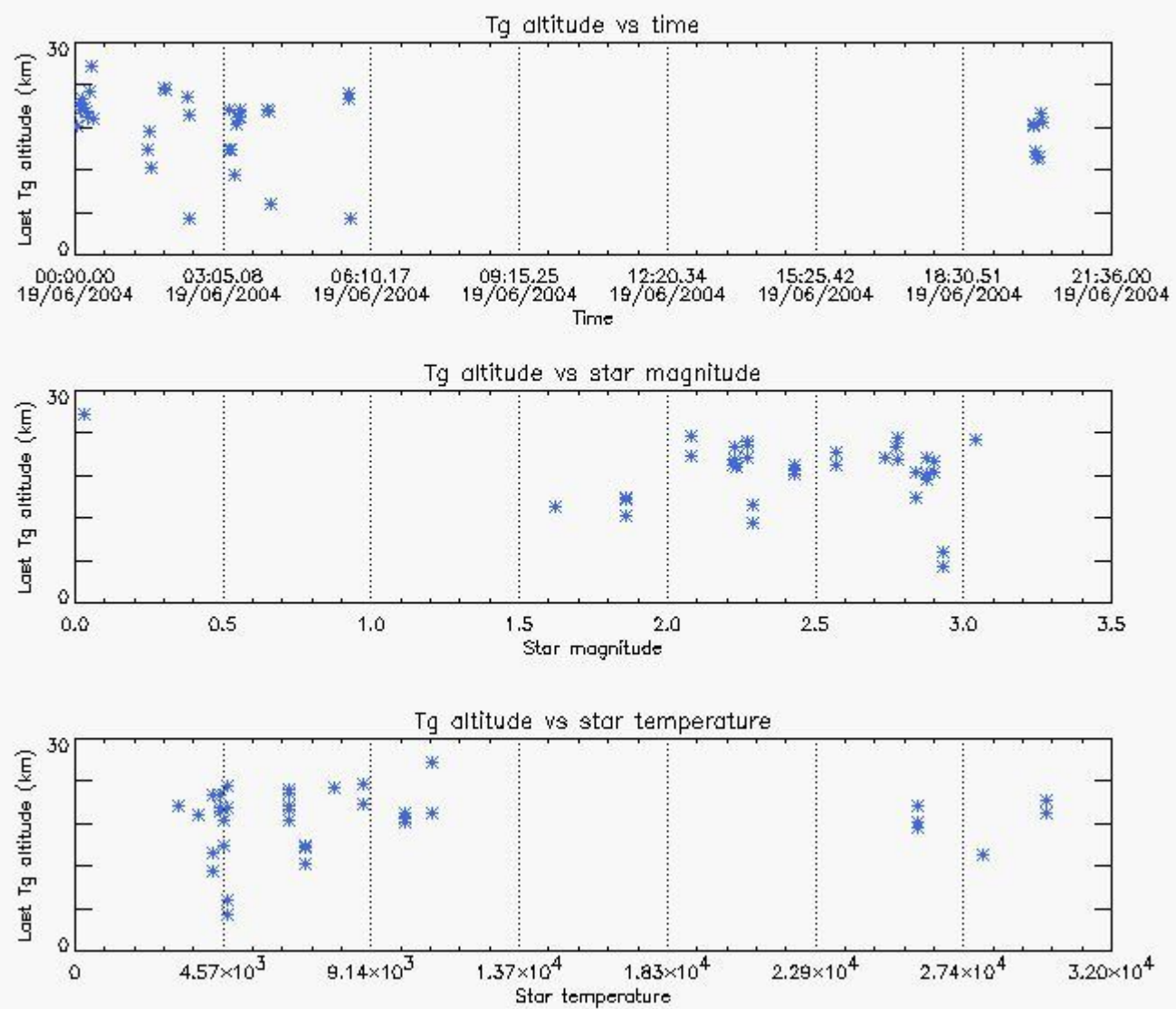
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

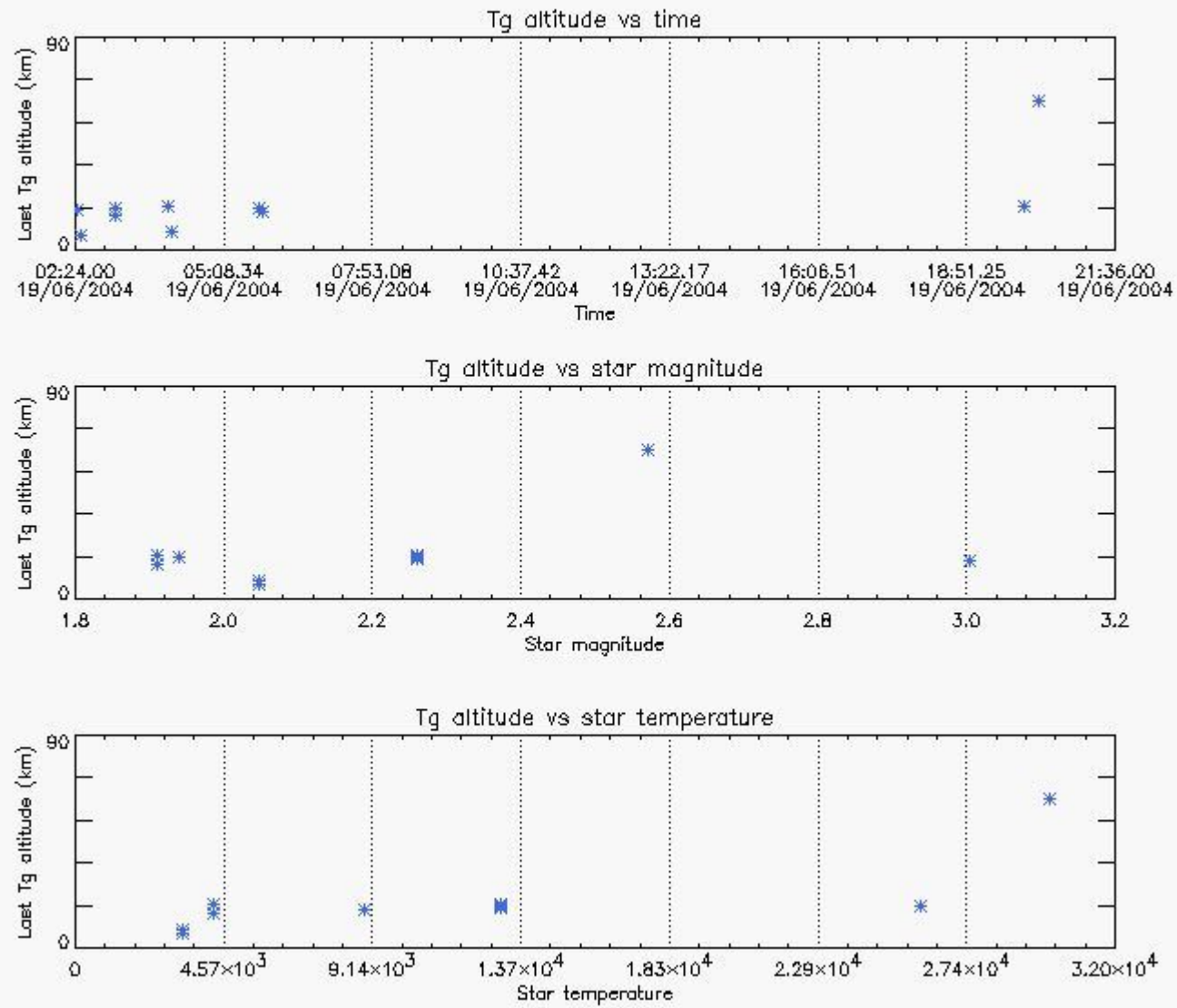


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

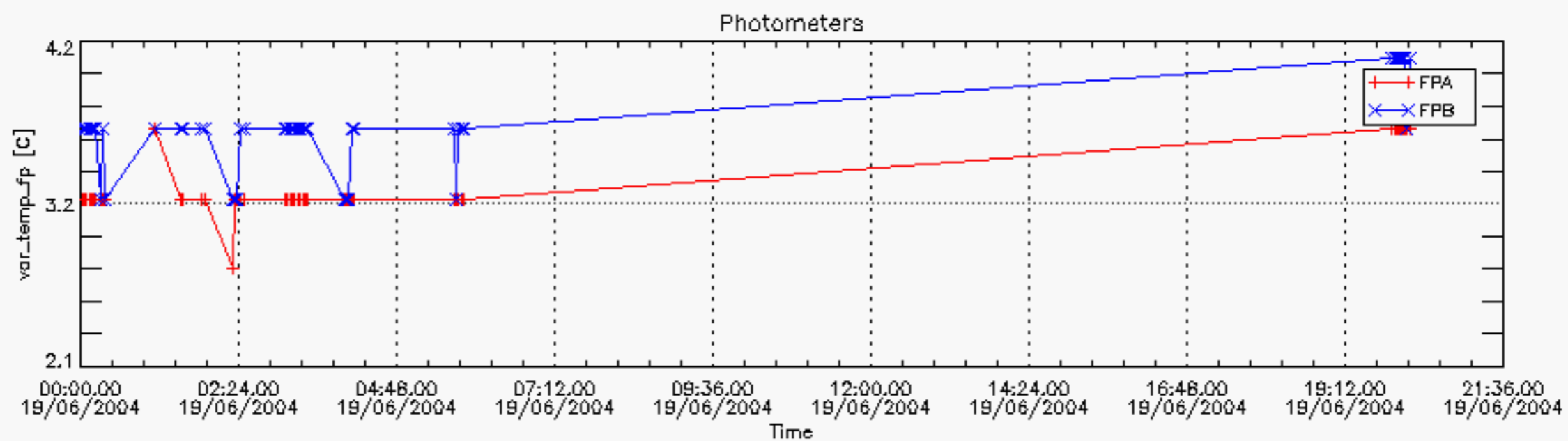
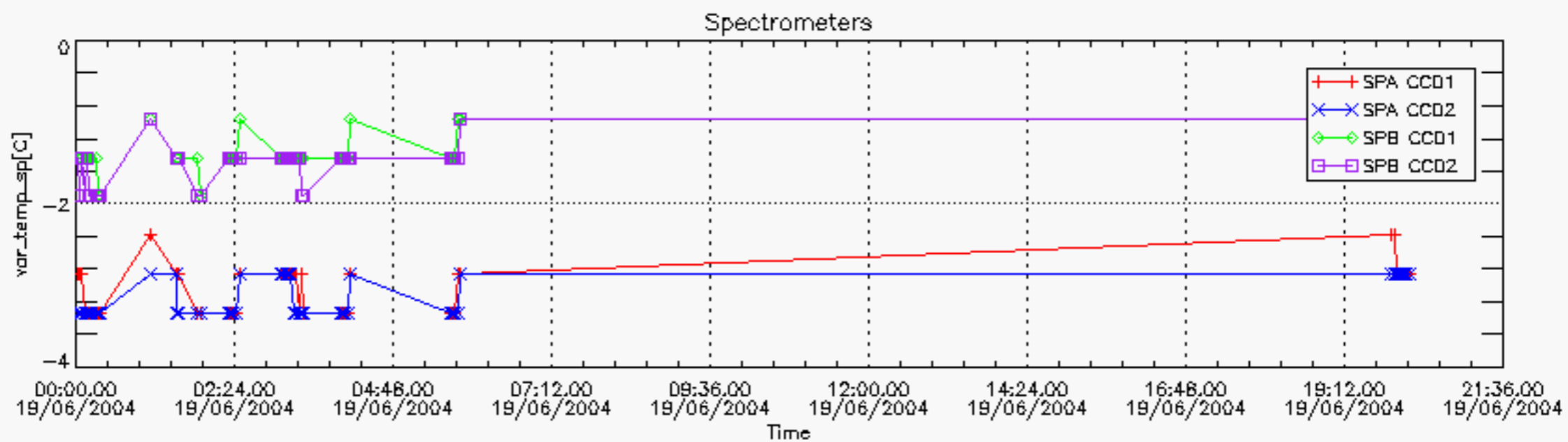
## Tangent altitude at which the star is lost

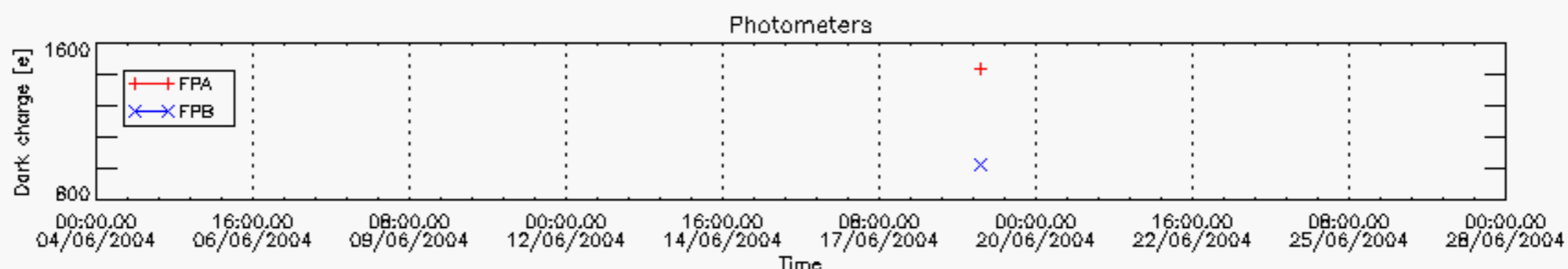
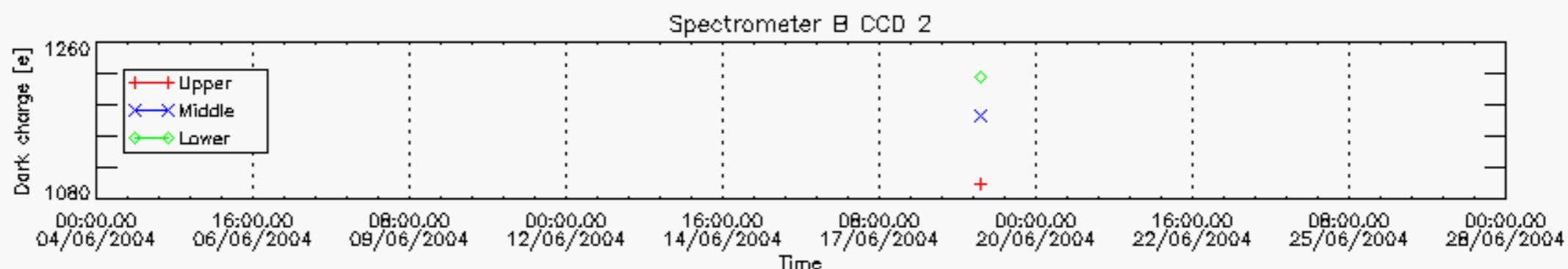
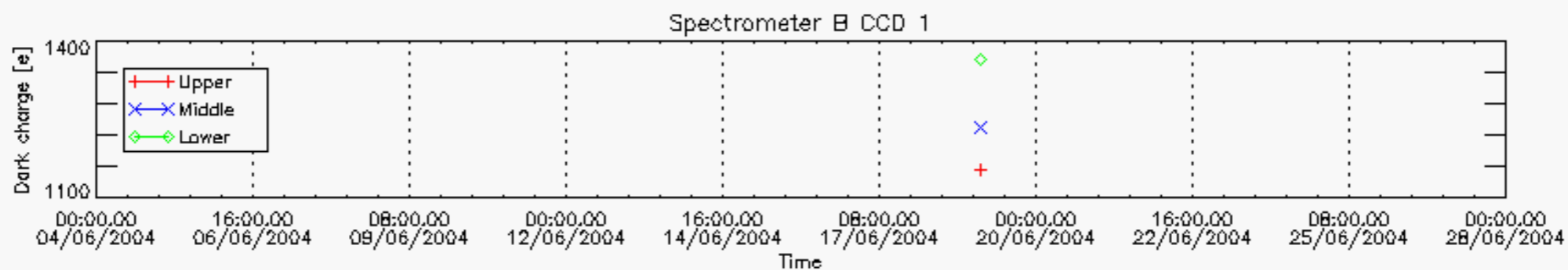
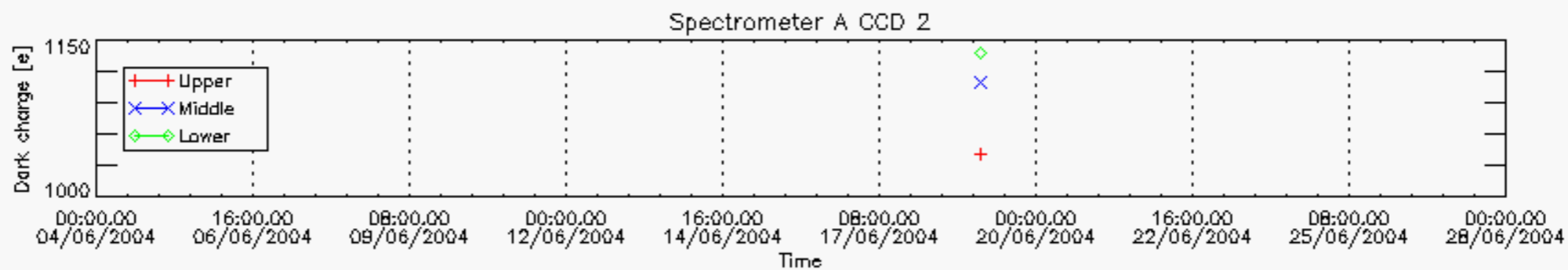
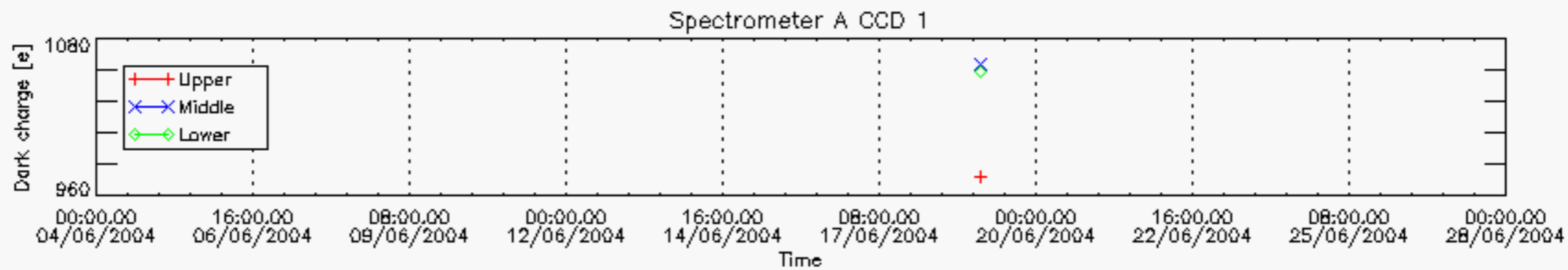


## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

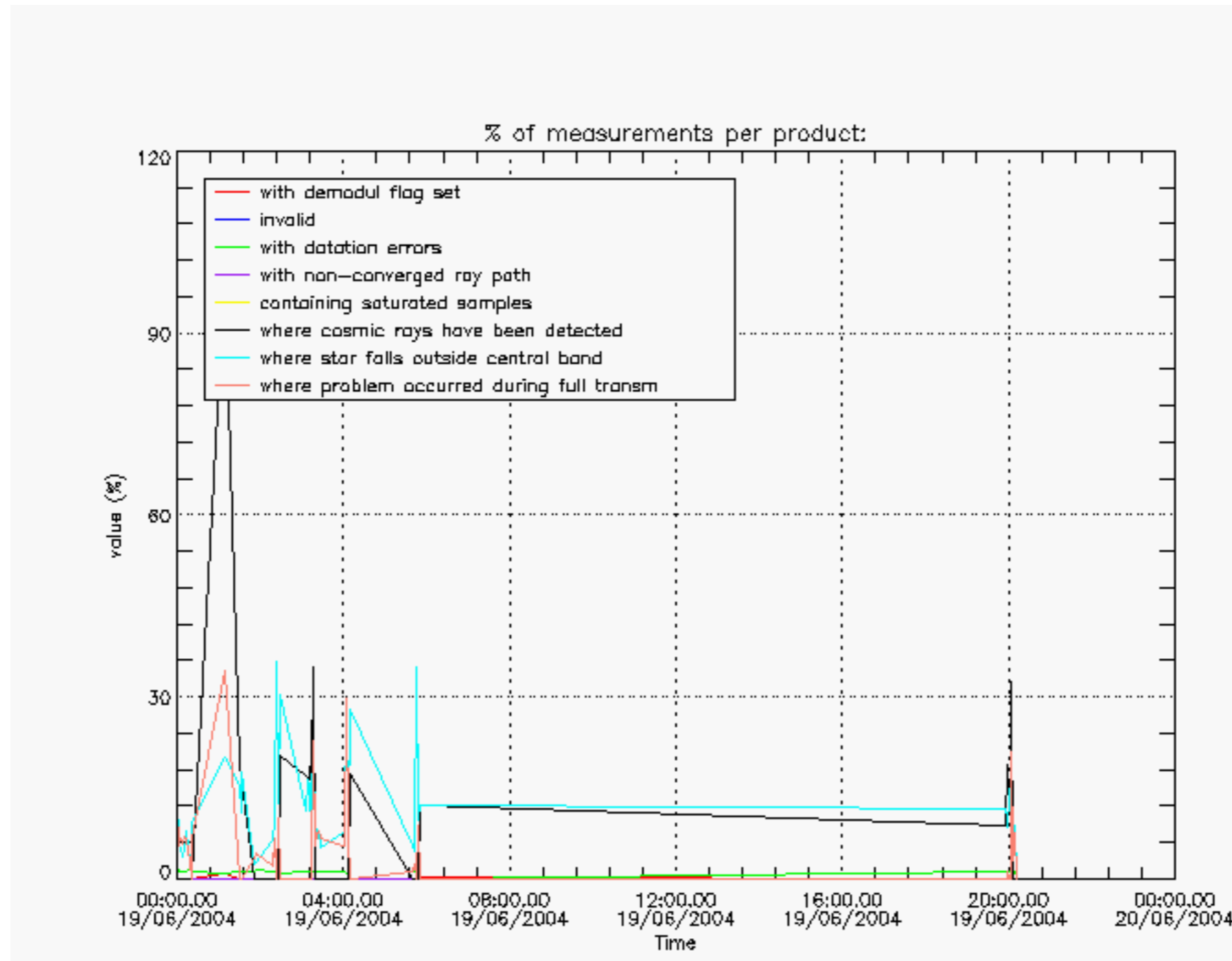
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1462.4	1451.7	1461.4	1447.1
St. deviation:	4.9857	3.8831	6.9357	8.0726
Maximum:	1581.0	1484.0	1505.0	1494.0
Minimum:	1391.0	1436.0	1428.0	1415.0
Number of data:	1800.0	1800.0	44050.	44050.

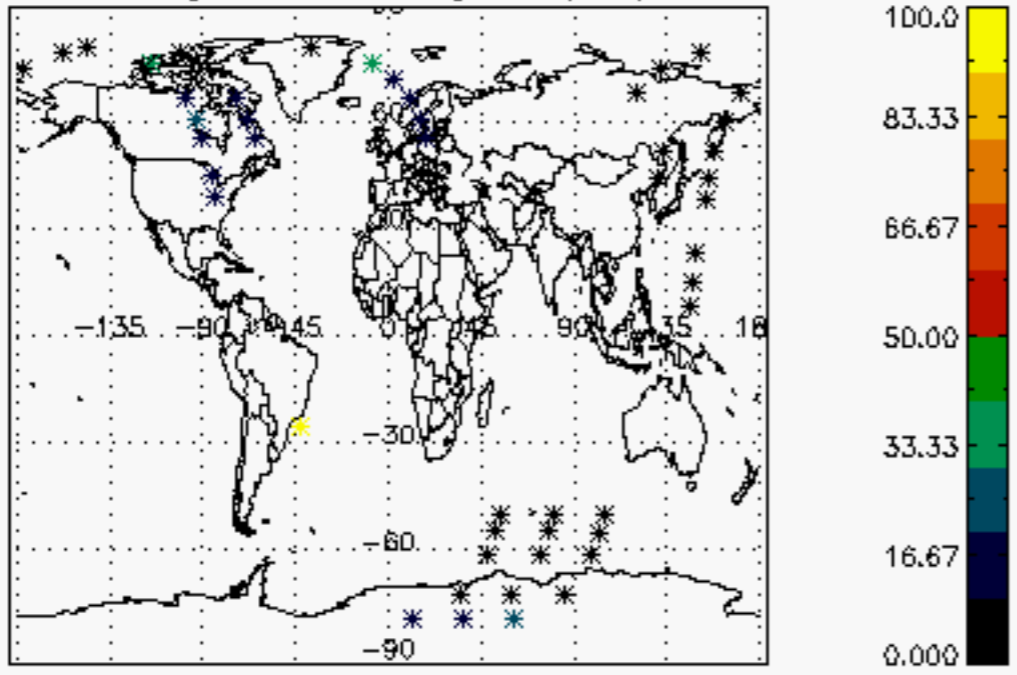




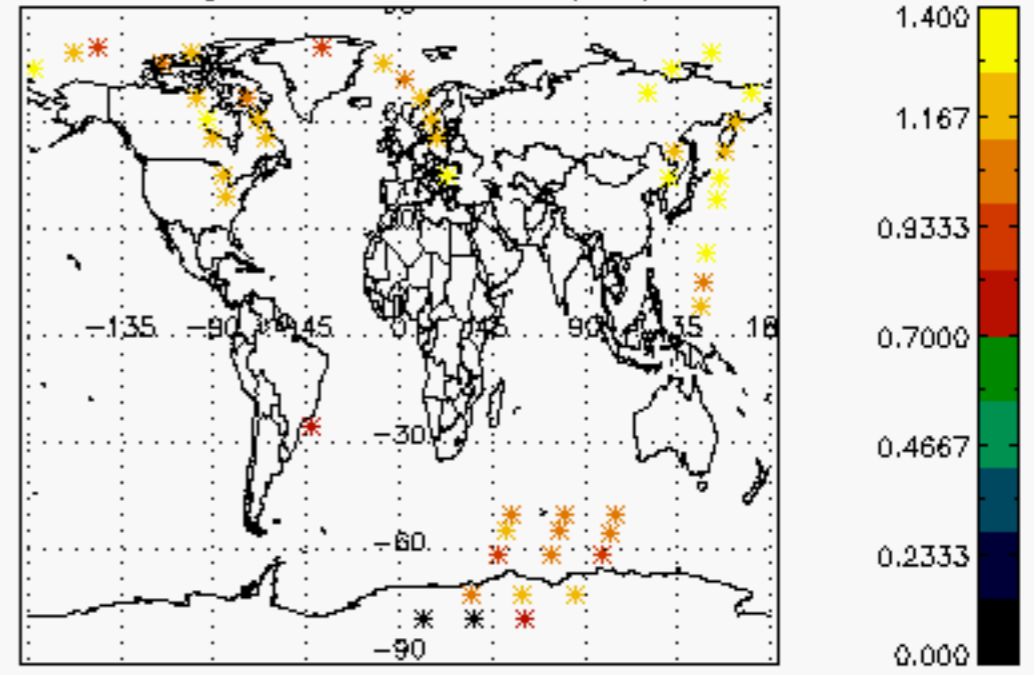




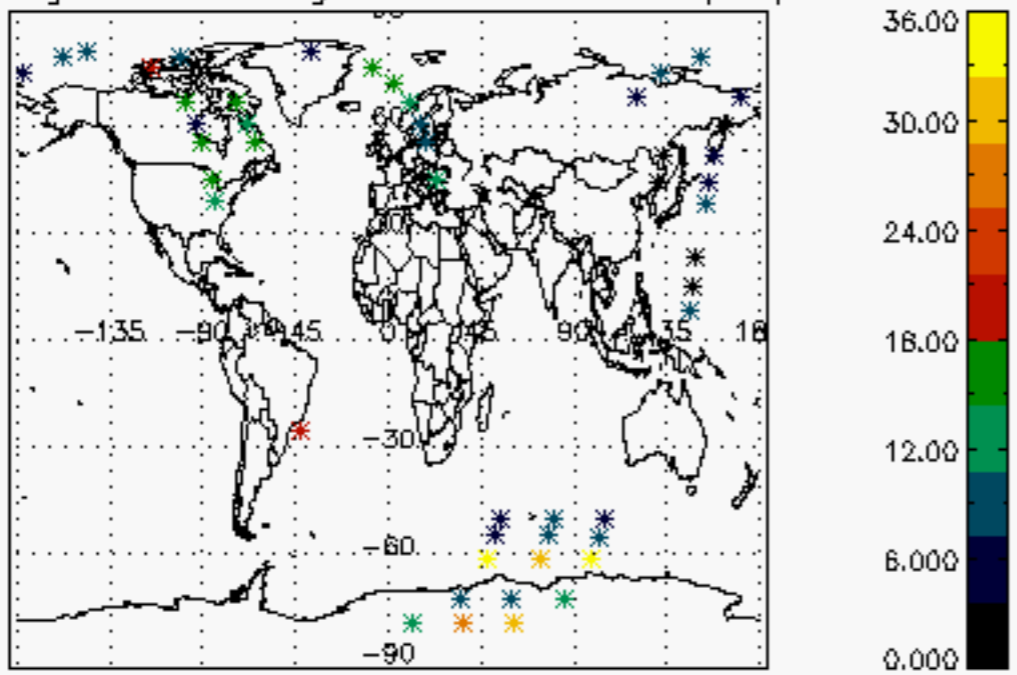
Percentage of cosmic ray hits per profile



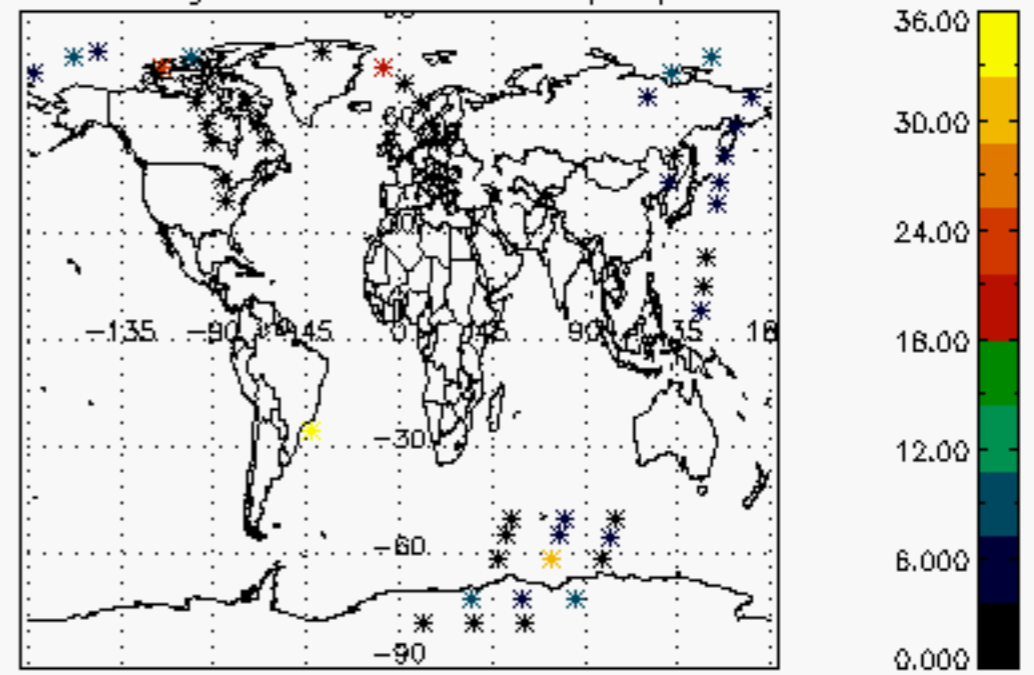
Percentage of datation errors per profile



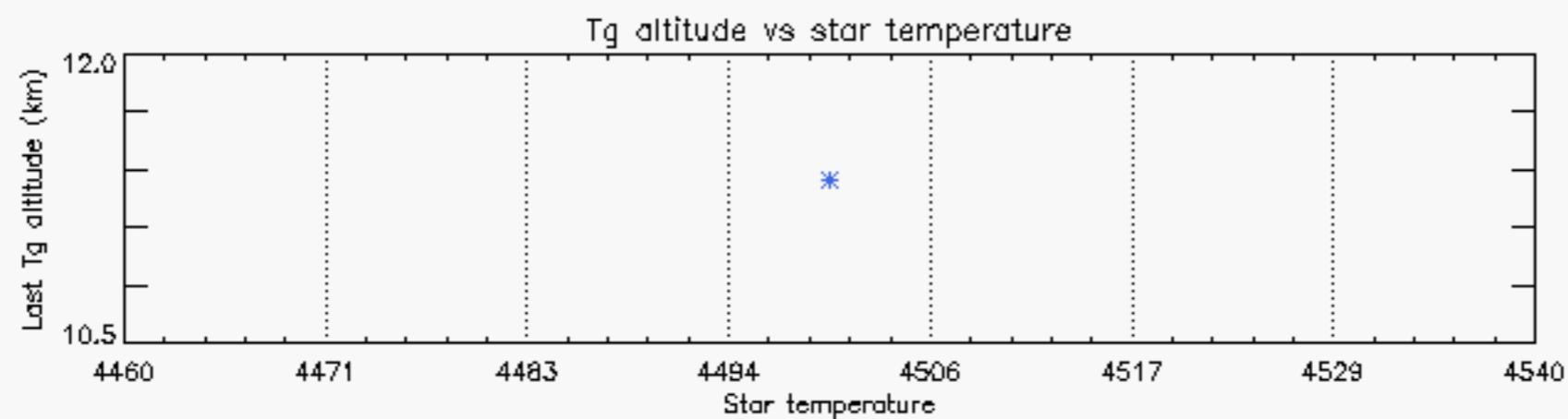
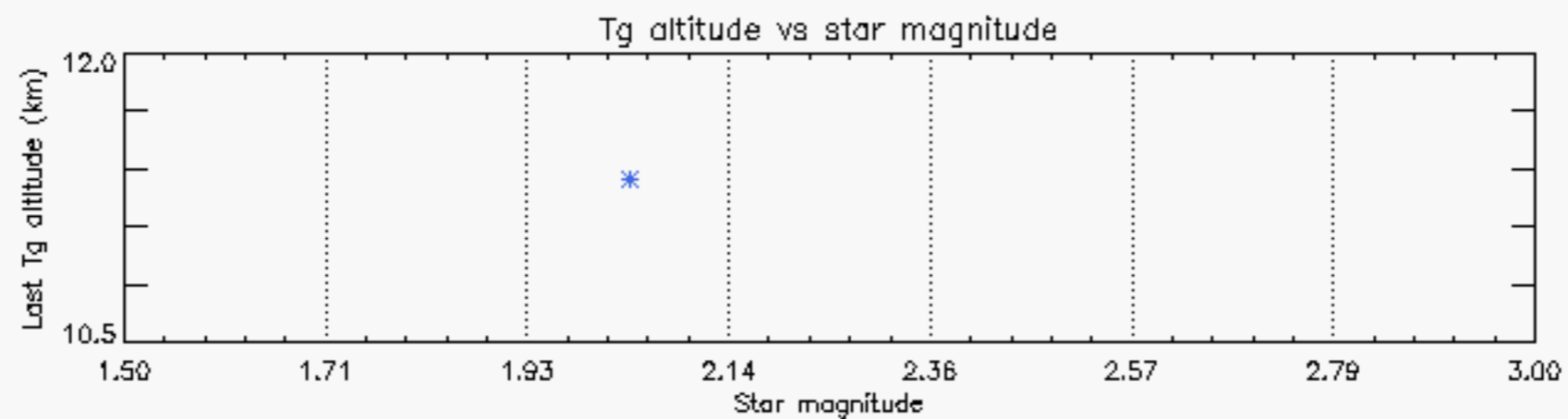
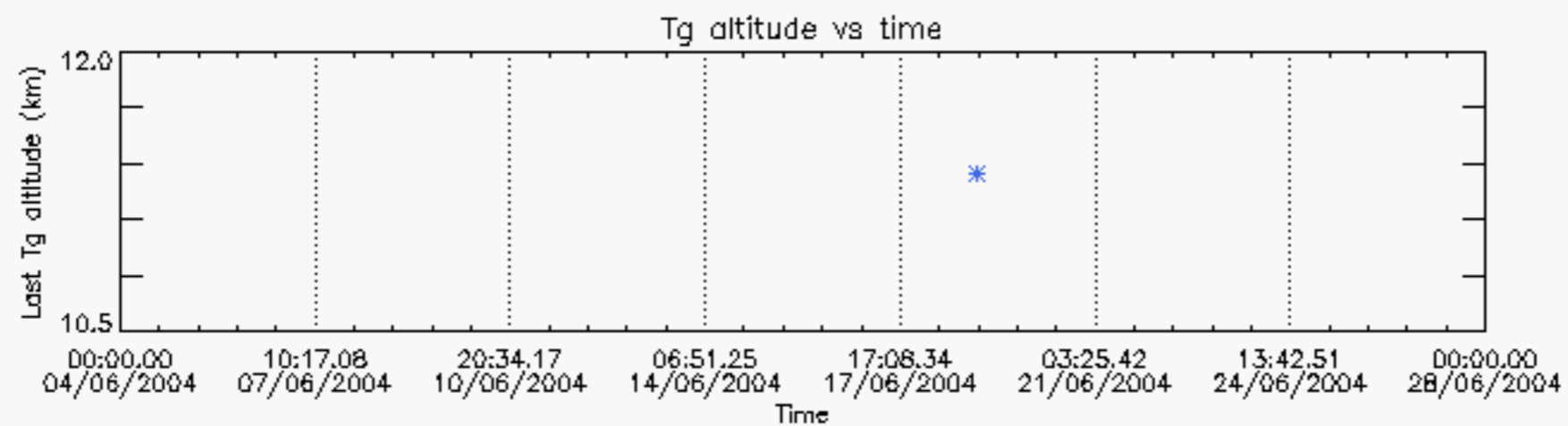
Percentage of star falling outside central band per profile



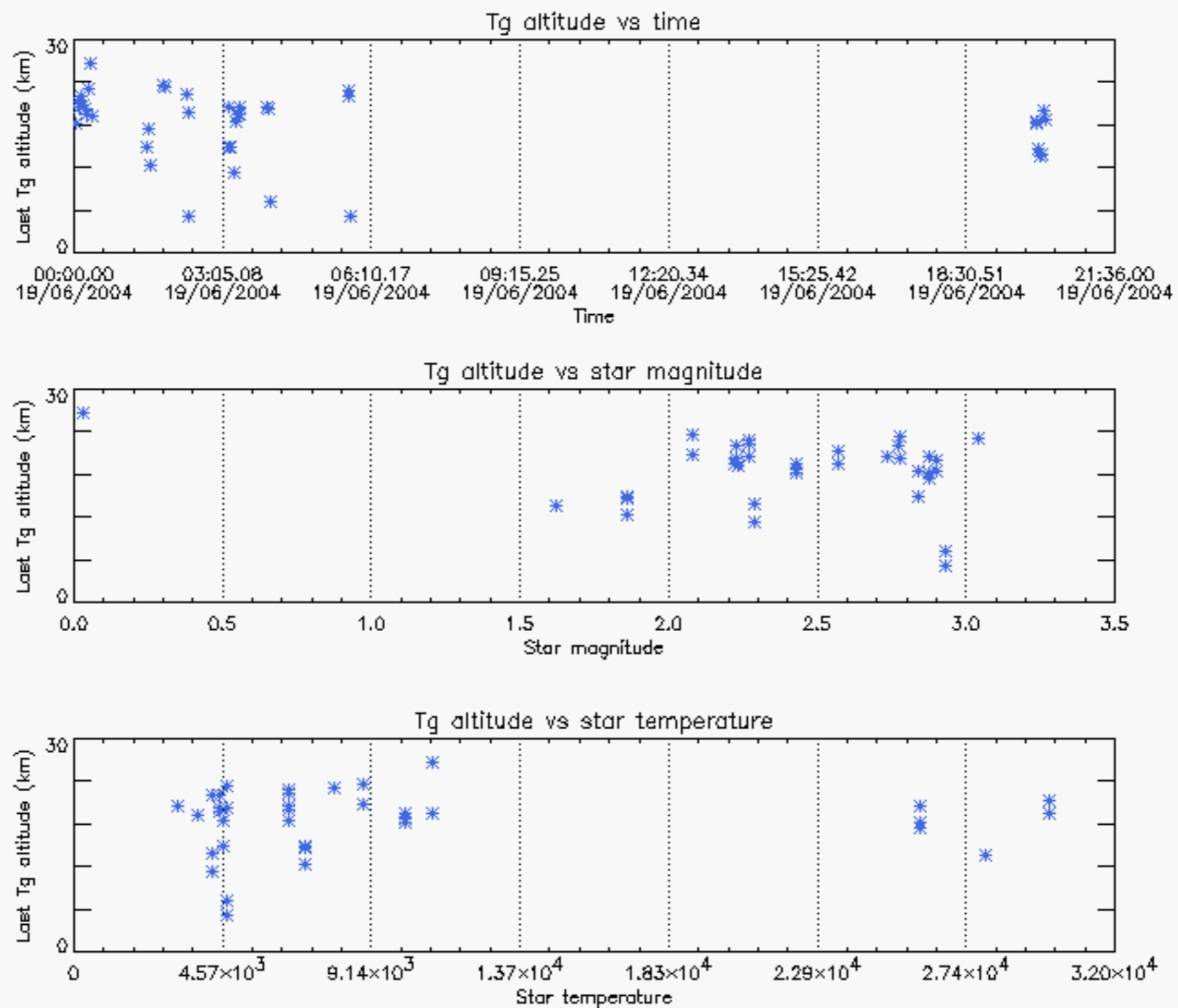
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

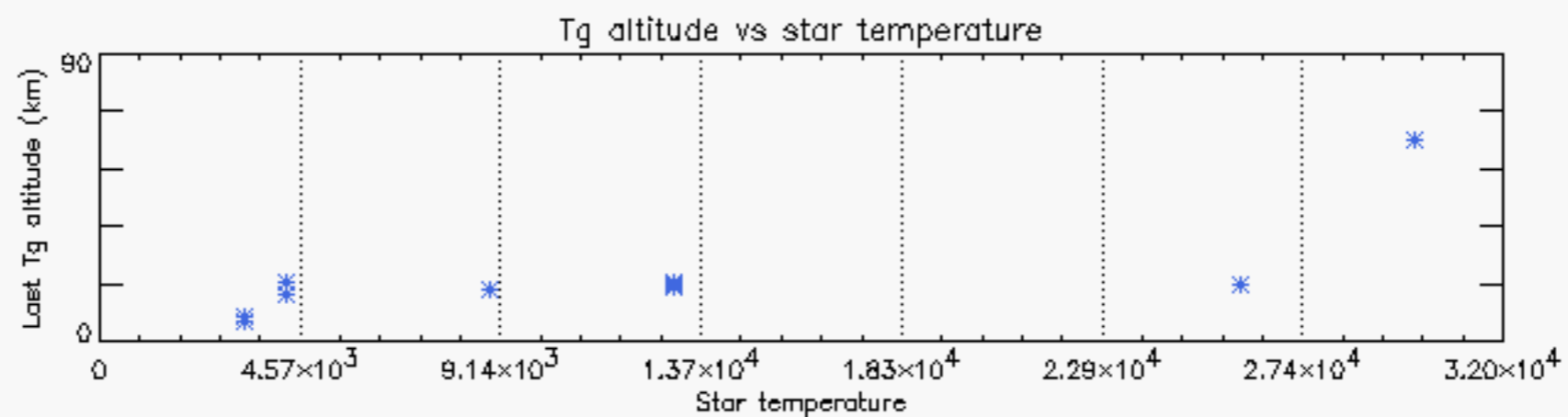
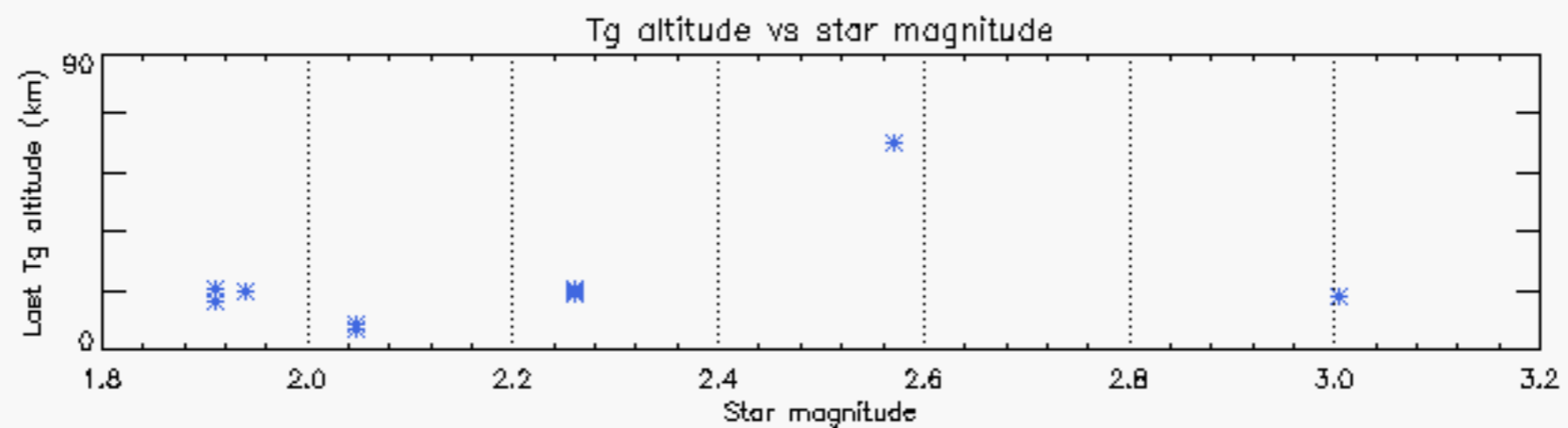
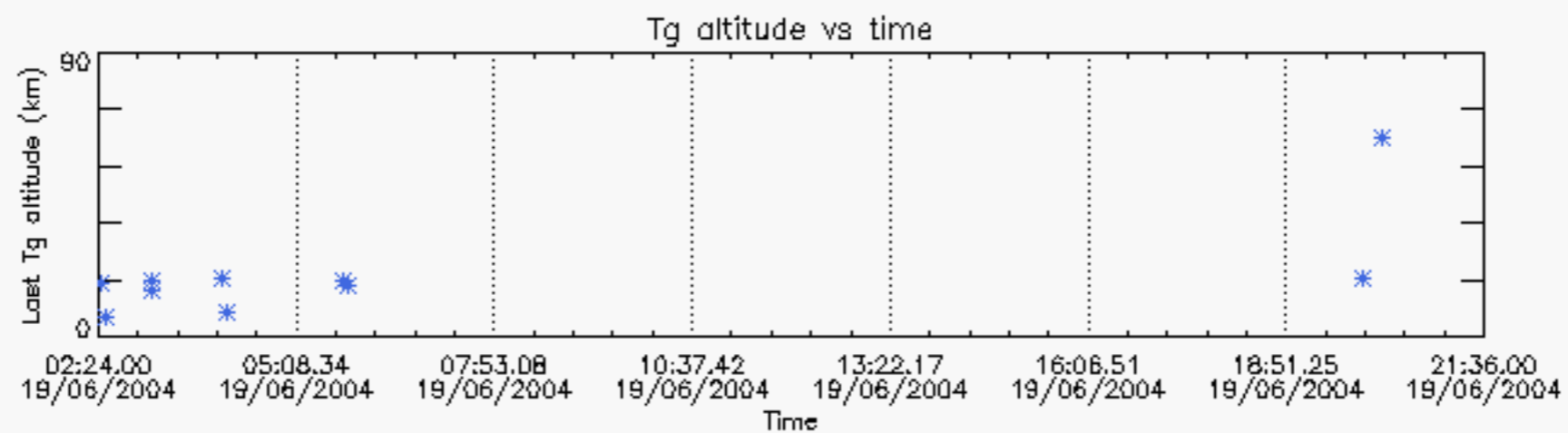


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



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 27; 937.5; 01-JUN-2004 07:38:41; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 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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 28; 1252.1; 01-JUN-2004 09:24:32; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;11785  
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34; 1373.0; 01-JUN-2004 12:47:44; Dark ; 46.0; 136; 23Tau Sco ; 2.82; 30000;occ; 92; 0;11787
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7;	-3761.0;	15-JUN-2004	15:43:44;	Bright;	38.0;	127;	27Bet Her	;	2.78;	4700;occ;	76;	0;	11989
8;	-3669.2;	15-JUN-2004	15:45:16;	Bright;	37.0;	67;	5Alp CrB	;	2.22;	11000;occ;	74;	0;	11989
9;	-3578.5;	15-JUN-2004	15:46:46;	Bright;	40.0;	133;	40Zet Her	;	2.81;	6000;occ;	80;	0;	11989
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11;	-3206.0;	15-JUN-2004	15:52:59;	Bright;	40.5;	39;	85Eta UMa	;	1.85;	24000;occ;	81;	0;	11989
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19;	-1626.9;	15-JUN-2004	16:19:18;	Dark	;	53;	43Bet And	;	2.05;	3300;occ;	115;	0;	11989
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25;	193.8;	15-JUN-2004	16:49:39;	Dark	;	18;	24Alp PsA	;	1.17;	9700;occ;	143;	0;	11990
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27;	626.1;	15-JUN-2004	16:56:51;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	88;	0;	11990
28;	743.9;	15-JUN-2004	16:58:49;	Dark	;	43;	Alp TrA	;	1.91;	4250;occ;	83;	0;	11990
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9; 972.0; 30-JUN-2004 02:25:56; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;12196
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