

# GOMOS Daily Report 16-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	17JUN2004 03:44:36
Data source version	GOMOS/4.02
Start time of products	16-JUN-2004 (16JUN2004 00:00:00)
Stop time of products	17-JUN-2004 (17JUN2004 00:00:00)

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

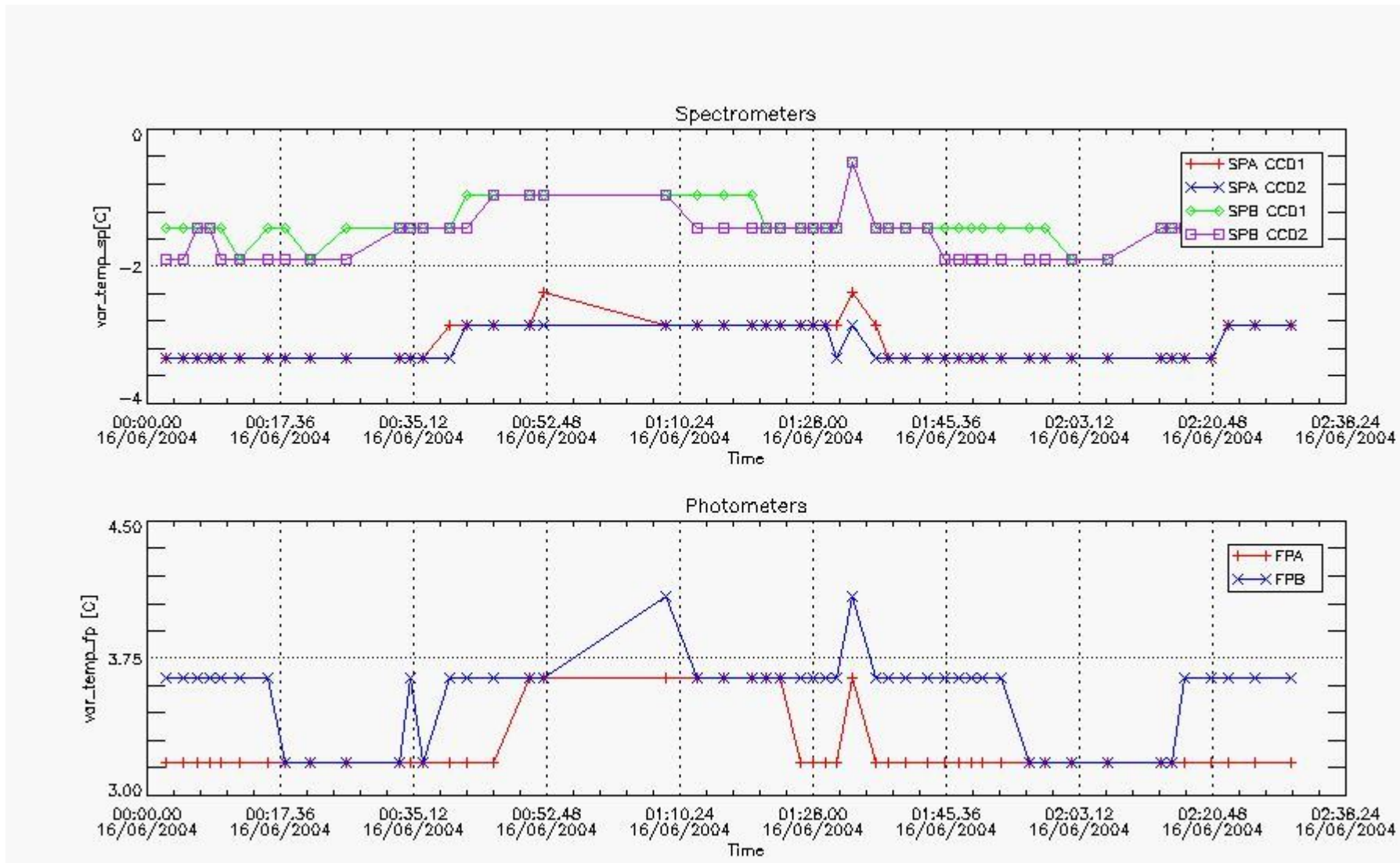
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040616_000235_000000362027_00417_11994_0004.N1	16-JUN-2004 00:02:35	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	11994	No
GOM_TRA_1PNPDE20040616_000443_000000442027_00417_11994_0005.N1	16-JUN-2004 00:04:43	Bright	43.500	59	55Alp Oph	2.0800	8900.0	87	11994	No
GOM_TRA_1PNPDE20040616_000643_000000402027_00417_11994_0006.N1	16-JUN-2004 00:06:43	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	11994	No
GOM_TRA_1PNPDE20040616_000816_000000362027_00417_11994_0007.N1	16-JUN-2004 00:08:16	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	11994	No
GOM_TRA_1PNPDE20040616_000945_000000402027_00417_11994_0008.N1	16-JUN-2004 00:09:45	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	11994	No
GOM_TRA_1PNPDE20040616_001214_000000382027_00417_11994_0009.N1	16-JUN-2004 00:12:14	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	11994	No
GOM_TRA_1PNPDE20040616_001601_000000392027_00417_11994_0010.N1	16-JUN-2004 00:16:01	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	11994	No
GOM_TRA_1PNPDE20040616_001808_000000392027_00417_11994_0011.N1	16-JUN-2004 00:18:08	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	11994	No
GOM_TRA_1PNPDE20040616_002137_000000342027_00417_11994_0012.N1	16-JUN-2004 00:21:37	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	11994	No
GOM_TRA_1PNPDE20040616_002614_000000382027_00417_11994_0013.N1	16-JUN-2004 00:26:14	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	11994	No
GOM_TRA_1PNPDE20040616_003323_000000462027_00417_11994_0014.N1	16-JUN-2004 00:33:23	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	11994	No
GOM_TRA_1PNPDE20040616_003446_000000452027_00417_11994_0015.N1	16-JUN-2004 00:34:46	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	11994	No
GOM_TRA_1PNPDE20040616_003630_000000352027_00417_11994_0016.N1	16-JUN-2004 00:36:30	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	11994	No
GOM_TRA_1PNPDE20040616_003957_000000432027_00417_11994_0017.N1	16-JUN-2004 00:39:57	Twilight	43.000	73	57Gam1And	2.2600	13100.	86	11994	No
GOM_TRA_1PNPDE20040616_004218_000000582027_00417_11994_0018.N1	16-JUN-2004 00:42:18	Twilight	57.500	53	43Bet And	2.0480	3300.0	115	11994	No
GOM_TRA_1PNPDE20040616_004549_000000482027_00417_11994_0019.N1	16-JUN-2004 00:45:49	Twilight	48.000	50	13Alp Ari	2.0070	4250.0	96	11994	No
GOM_TRA_1PNPDE20040616_005035_000000392027_00417_11994_0020.N1	16-JUN-2004 00:50:35	Twilight	39.000	94	92Alp Cet	2.5260	3100.0	78	11994	No
GOM_TRA_1PNPDE20040616_005223_000000822027_00417_11994_0021.N1	16-JUN-2004 00:52:23	Dark	82.000	140	88Gam Peg	2.8340	26000.	164	11994	No
GOM_TRA_1PNPDE20040616_010830_000000442027_00417_11994_0022.N1	16-JUN-2004 01:08:30	Dark	44.000	9	Alp Eri	0.45300	24000.	88	11994	No
GOM_TRA_1PNPDE20040616_011246_000000722027_00418_11995_0023.N1	16-JUN-2004 01:12:46	Dark	71.500	18	24Alp PsA	1.1660	9700.0	143	11995	No
GOM_TRA_1PNPDE20040616_011606_000000582027_00418_11995_0024.N1	16-JUN-2004 01:16:06	Dark	57.500	31	Alp Gru	1.7340	15200.	115	11995	No
GOM_TRA_1PNPDE20040616_011953_000000462027_00418_11995_0025.N1	16-JUN-2004 01:19:53	Twilight	46.000	45	Alp Pav	1.9400	26000.	92	11995	No
GOM_TRA_1PNPDE20040616_012150_000000432027_00418_11995_0026.N1	16-JUN-2004 01:21:50	Twilight	42.500	43	Alp TrA	1.9100	4250.0	85	11995	No
GOM_TRA_1PNPDE20040616_012344_000000402027_00418_11995_0027.N1	16-JUN-2004 01:23:44	Bright	40.000	134	Bet TrA	2.8100	6600.0	80	11995	No
GOM_TRA_1PNPDE20040616_012614_000000412027_00418_11995_0028.N1	16-JUN-2004 01:26:14	Bright	41.000	147	Alp Ara	2.8770	26000.	82	11995	No
GOM_TRA_1PNPDE20040616_012759_000000432027_00418_11995_0029.N1	16-JUN-2004 01:27:59	Bright	43.000	40	The Sco	1.8590	7100.0	86	11995	No
GOM_TRA_1PNPDE20040616_012943_000000442027_00418_11995_0030.N1	16-JUN-2004 01:29:43	Bright	44.000	25	35Lam Sco	1.6200	28000.	88	11995	No
GOM_TRA_1PNPDE20040616_013107_000000492027_00418_11995_0031.N1	16-JUN-2004 01:31:07	Bright	48.500	75	26Eps Sco	2.2910	4250.0	97	11995	No
GOM_TRA_1PNPDE20040616_013315_000000592027_00418_11995_0000.N1	16-JUN-2004 01:33:15	Bright	59.000	155	41Pi Sgr	2.9000	6600.0	118	11995	Yes
GOM_TRA_1PNPDE20040616_013616_000000432027_00418_11995_0001.N1	16-JUN-2004 01:36:16	Bright	42.500	86	35Eta Oph	2.4300	10200.	85	11995	No
GOM_TRA_1PNPDE20040616_013801_000000402027_00418_11995_0002.N1	16-JUN-2004 01:38:01	Bright	39.500	98	13Zet Oph	2.5710	30000.	79	11995	No
GOM_TRA_1PNPDE20040616_014007_000000392027_00418_11995_0003.N1	16-JUN-2004 01:40:07	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	11995	No
GOM_TRA_1PNPDE20040616_014310_000000372027_00418_11995_0004.N1	16-JUN-2004 01:43:10	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	11995	No
GOM_TRA_1PNPDE20040616_014519_000000452027_00418_11995_0005.N1	16-JUN-2004 01:45:19	Bright	45.000	59	55Alp Oph	2.0800	8900.0	90	11995	No
GOM_TRA_1PNPDE20040616_014718_000000412027_00418_11995_0006.N1	16-JUN-2004 01:47:18	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	11995	No
GOM_TRA_1PNPDE20040616_014852_000000392027_00418_11995_0007.N1	16-JUN-2004 01:48:52	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	11995	No
GOM_TRA_1PNPDE20040616_015021_000000382027_00418_11995_0008.N1	16-JUN-2004 01:50:21	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	11995	No
GOM_TRA_1PNPDE20040616_015250_000000382027_00418_11995_0009.N1	16-JUN-2004 01:52:50	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	11995	No
GOM_TRA_1PNPDE20040616_015636_000000412027_00418_11995_0010.N1	16-JUN-2004 01:56:36	Bright	40.500	39	85Eta UMa	1.8540	24000.	81	11995	No
GOM_TRA_1PNPDE20040616_015843_000000362027_00418_11995_0011.N1	16-JUN-2004 01:58:43	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	11995	No
GOM_TRA_1PNPDE20040616_020213_000000362027_00418_11995_0012.N1	16-JUN-2004 02:02:13	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	11995	No
GOM_TRA_1PNPDE20040616_020649_000000382027_00418_11995_0013.N1	16-JUN-2004 02:06:49	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	11995	No
GOM_TRA_1PNPDE20040616_021359_000000462027_00418_11995_0014.N1	16-JUN-2004 02:13:59	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	11995	No
GOM_TRA_1PNPDE20040616_021522_000000462027_00418_11995_0015.N1	16-JUN-2004 02:15:22	Bright	45.500	68	18Alp Cas	2.2250	4500.0	91	11995	No
GOM_TRA_1PNPDE20040616_021705_000000432027_00418_11995_0016.N1	16-JUN-2004 02:17:05	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	11995	No
GOM_TRA_1PNPDE20040616_022033_000000432027_00418_11995_0017.N1	16-JUN-2004 02:20:33	Twilight	43.000	73	57Gam1And	2.2600	13100.	86	11995	No
GOM_TRA_1PNPDE20040616_022254_000000612027_00418_11995_0018.N1	16-JUN-2004 02:22:54	Twilight	60.500	53	43Bet And	2.0480	3300.0	121	11995	No
GOM_TRA_1PNPDE20040616_022625_000000542027_00418_11995_0019.N1	16-JUN-2004 02:26:25	Twilight	54.000	50	13Alp Ari	2.0070	4250.0	108	11995	No
GOM_TRA_1PNPDE20040616_023111_000000402027_00418_11995_0020.N1	16-JUN-2004 02:31:11	Twilight	39.500	94	92Alp Cet	2.5260	3100.0	79	11995	No

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



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

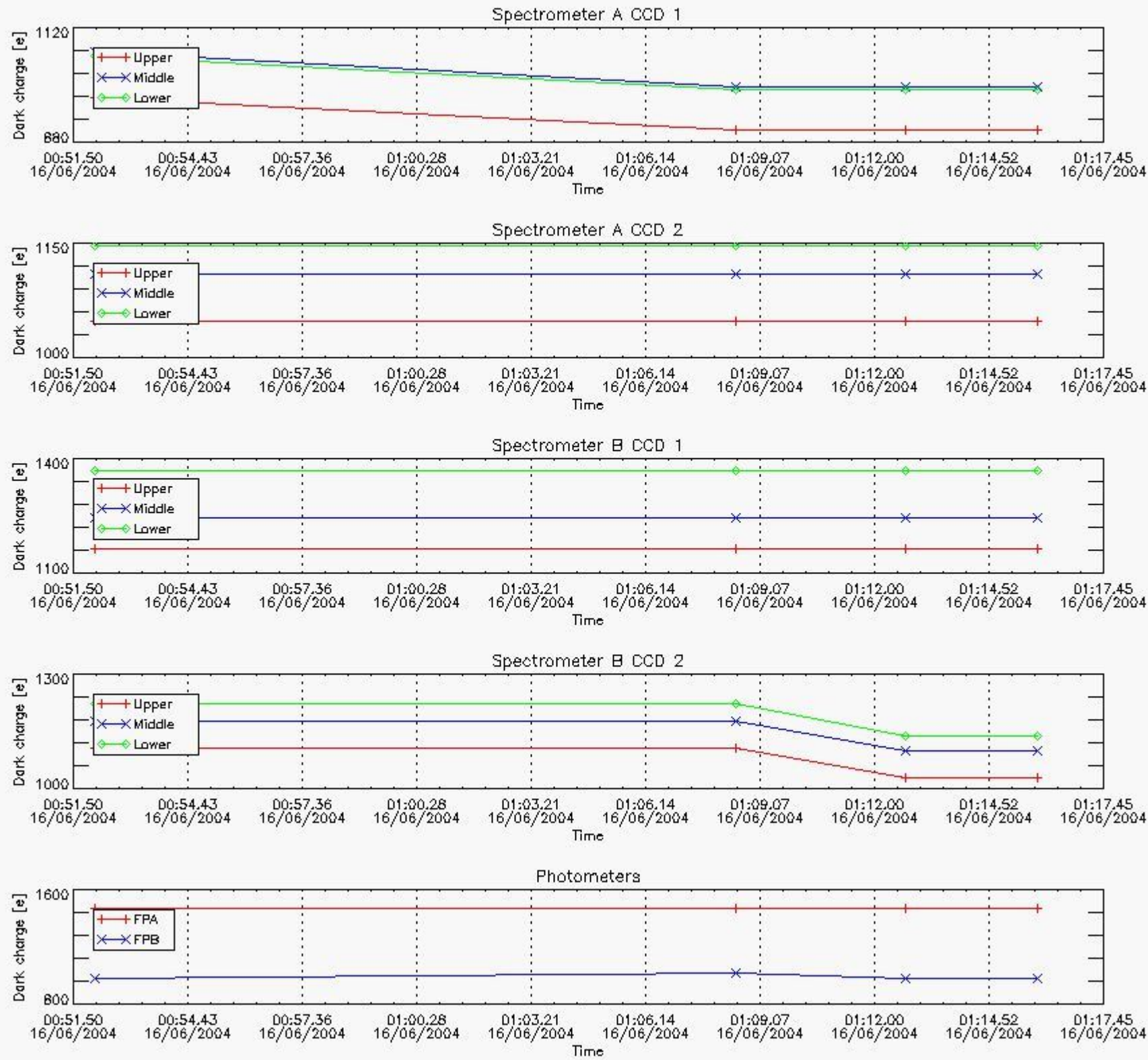
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





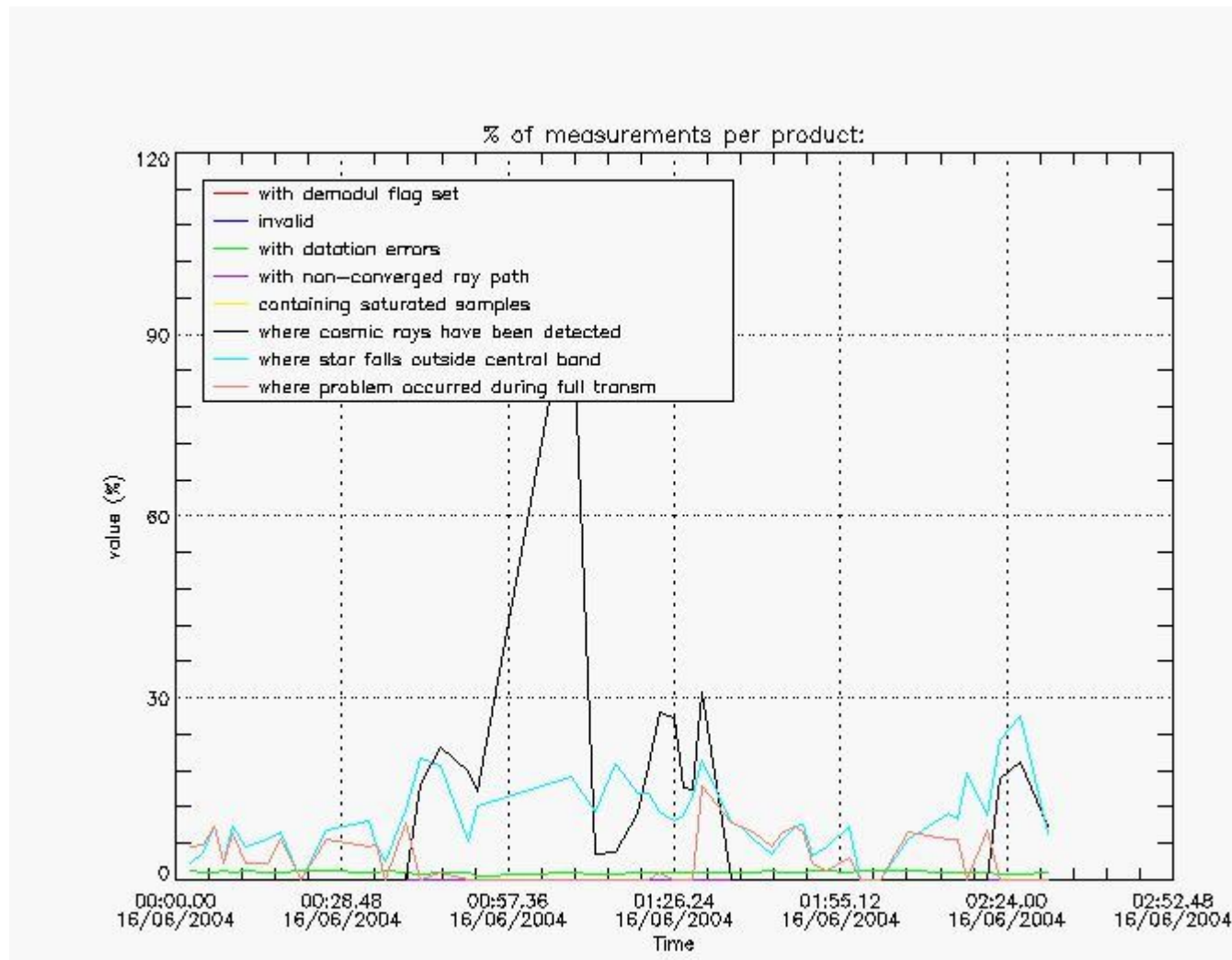
## 5. Demodulation flag and quality information monitoring

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.

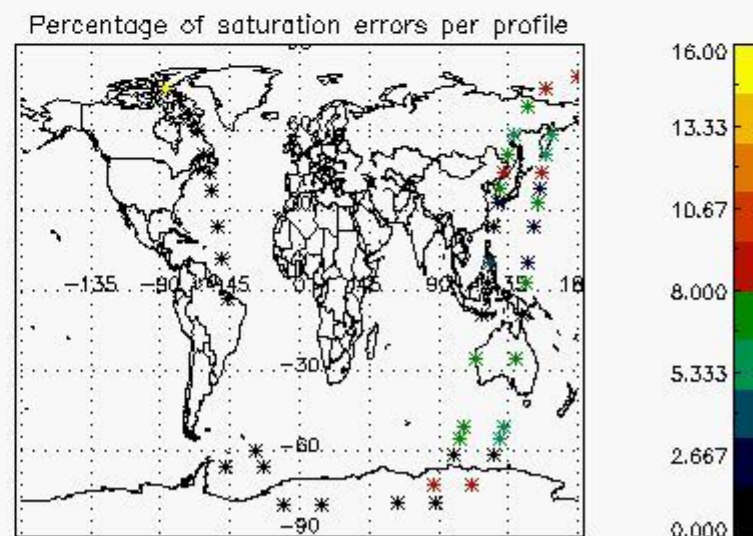
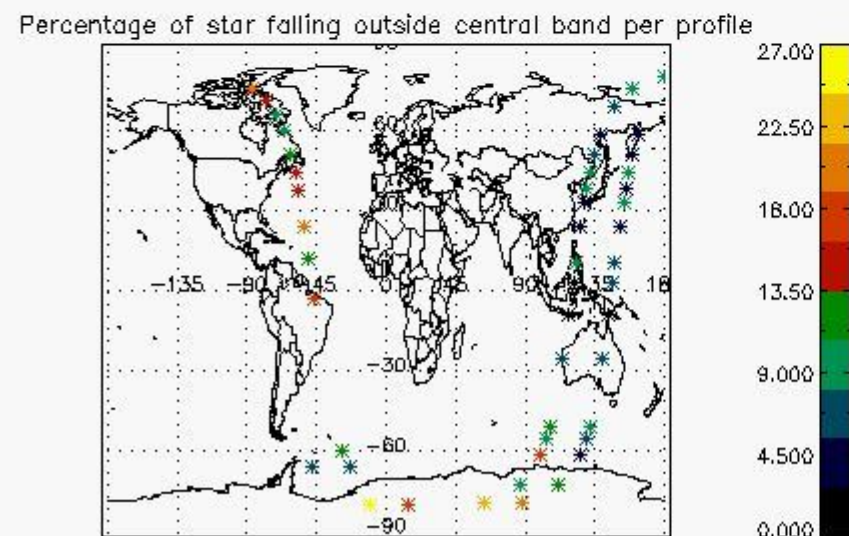
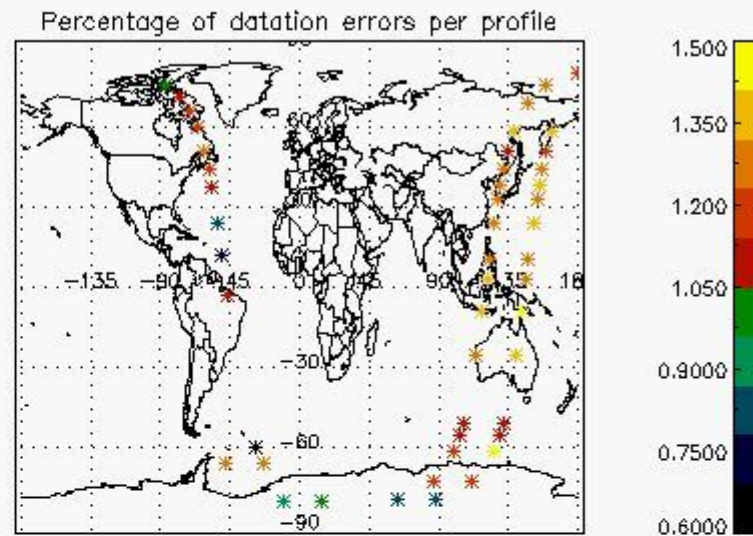
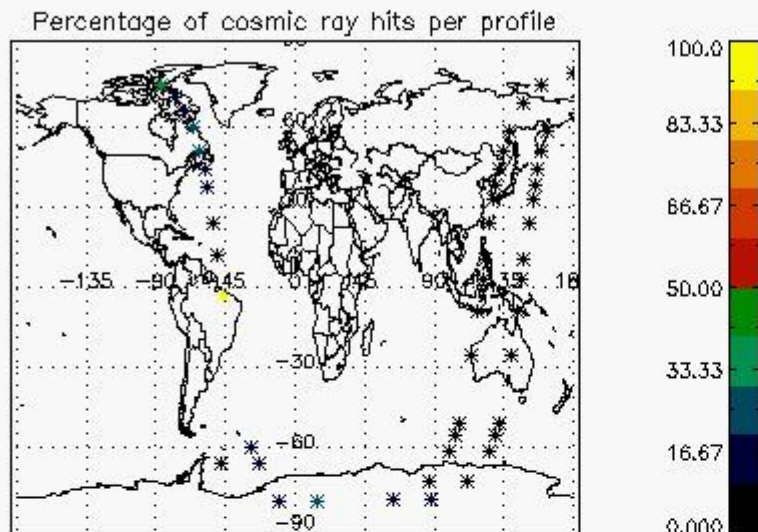
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	4.16667 %
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)

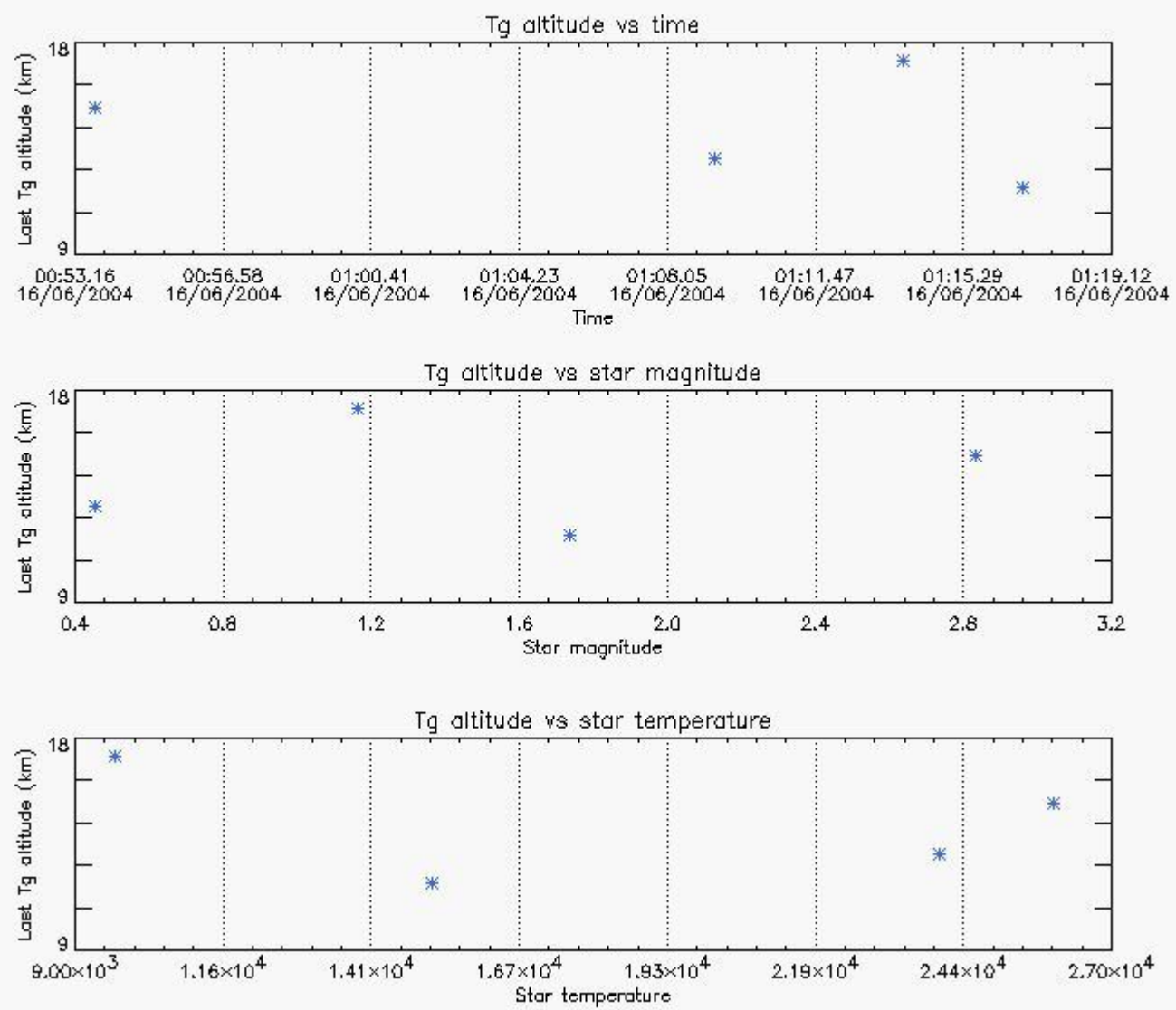
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.347	20.139	14.375
St. deviation:	2.3719	3.3848	3.7436
Maximum:	17.232	27.547	18.343
Minimum:	11.847	11.502	7.8632
Number of data:	4.0000	34.000	10.000

### 6.2 Plot for DARK limb products

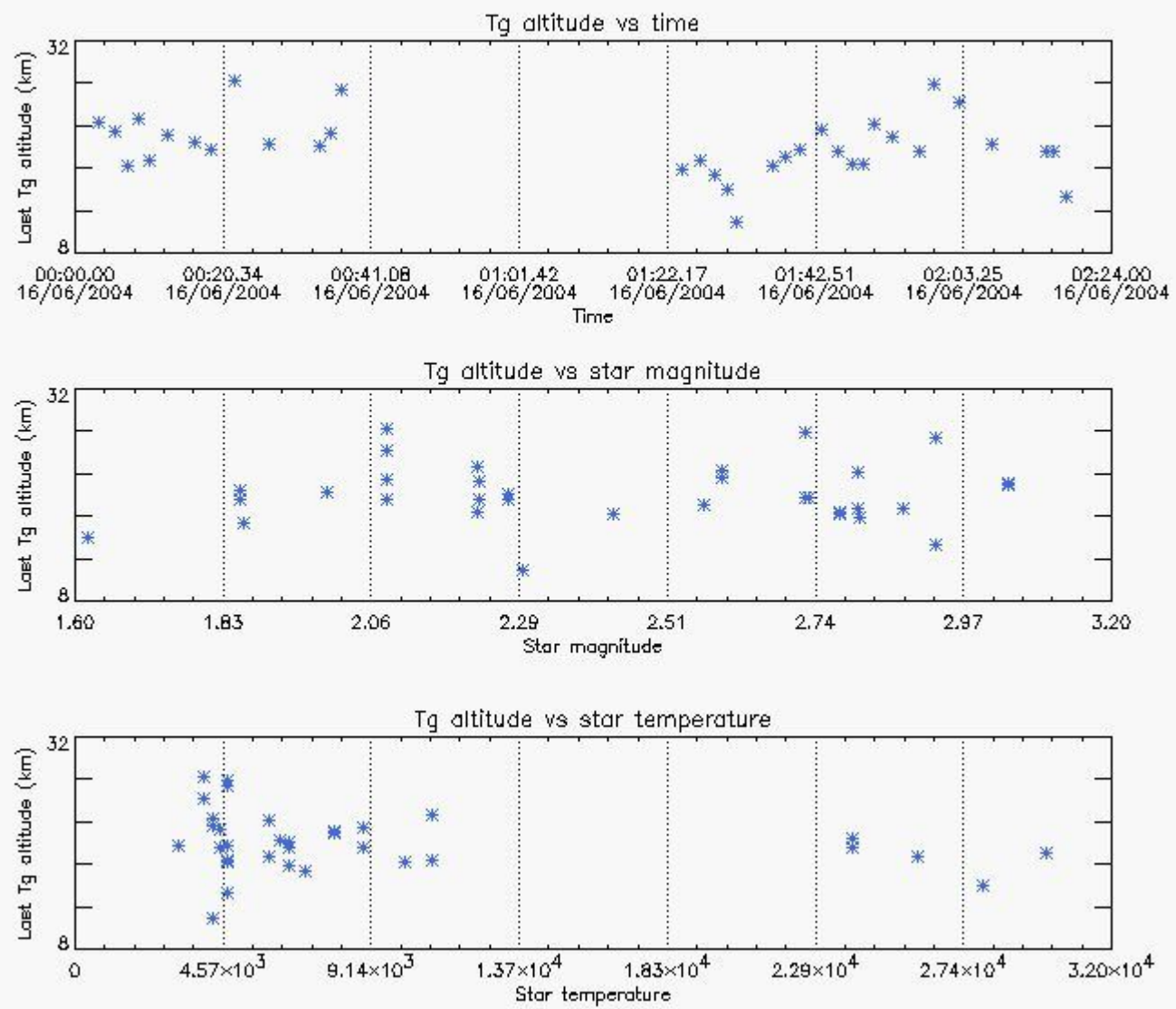


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

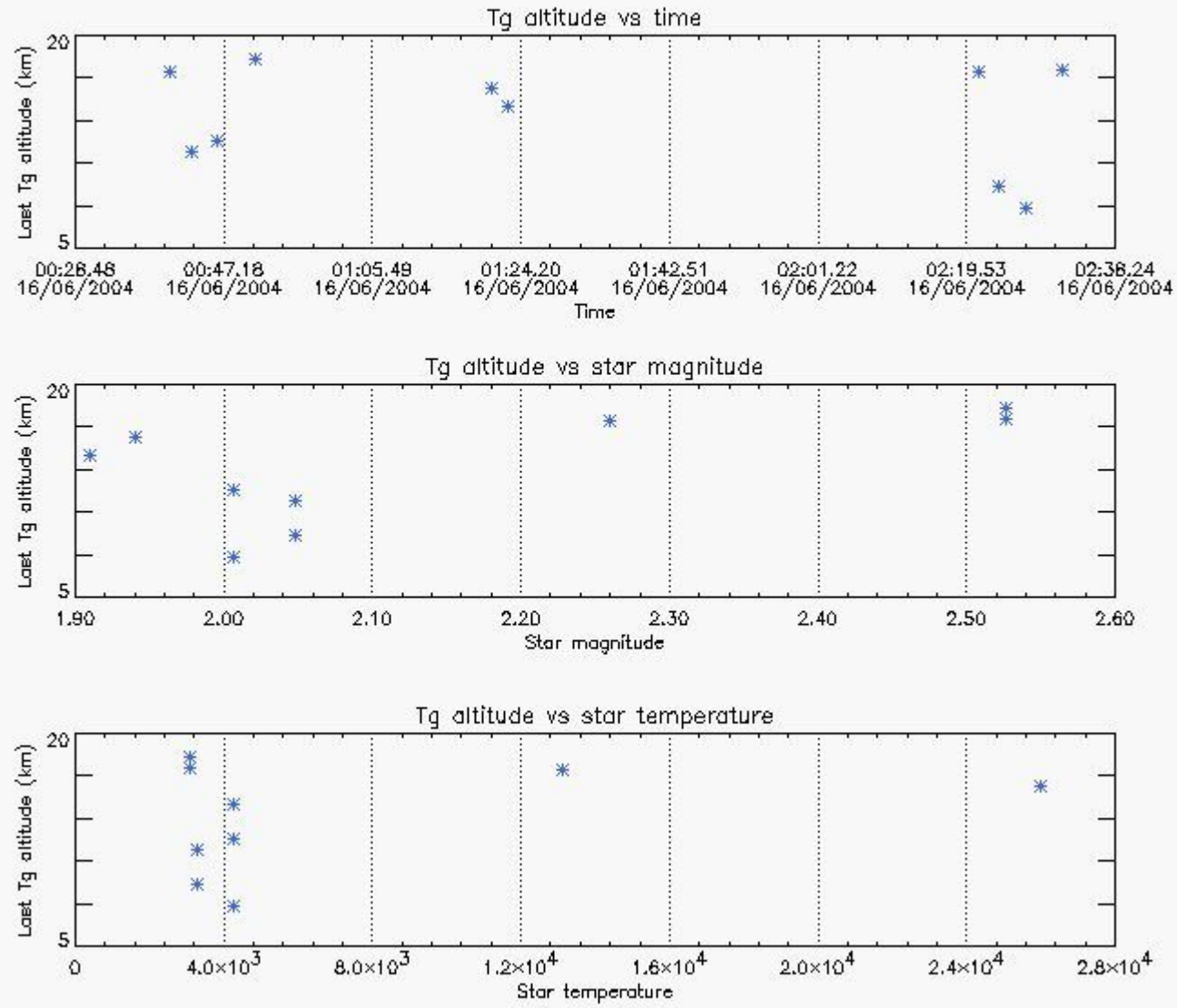
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



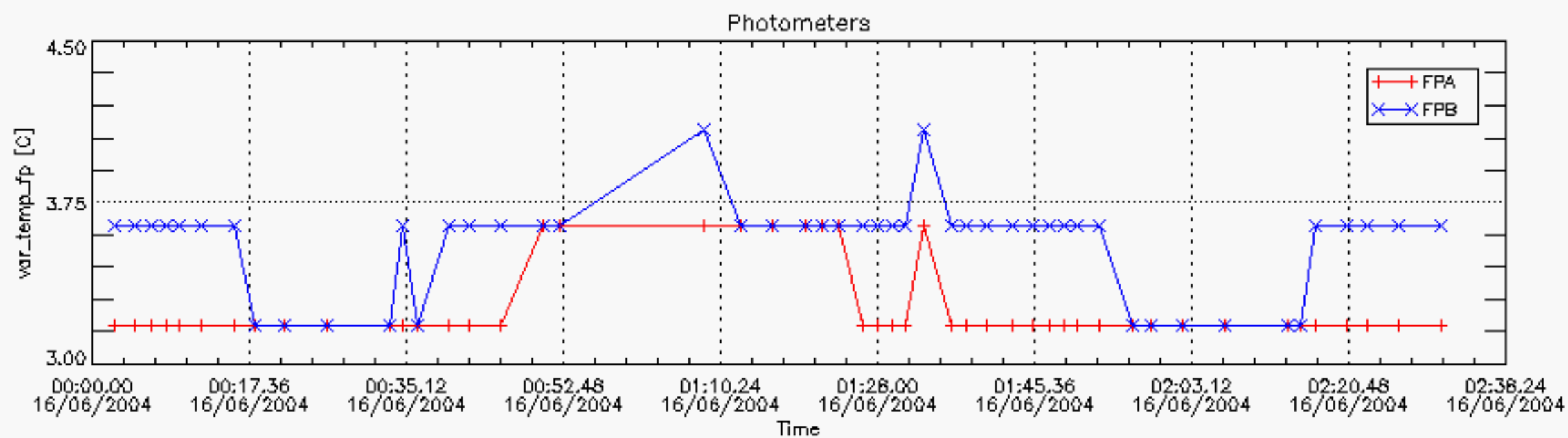
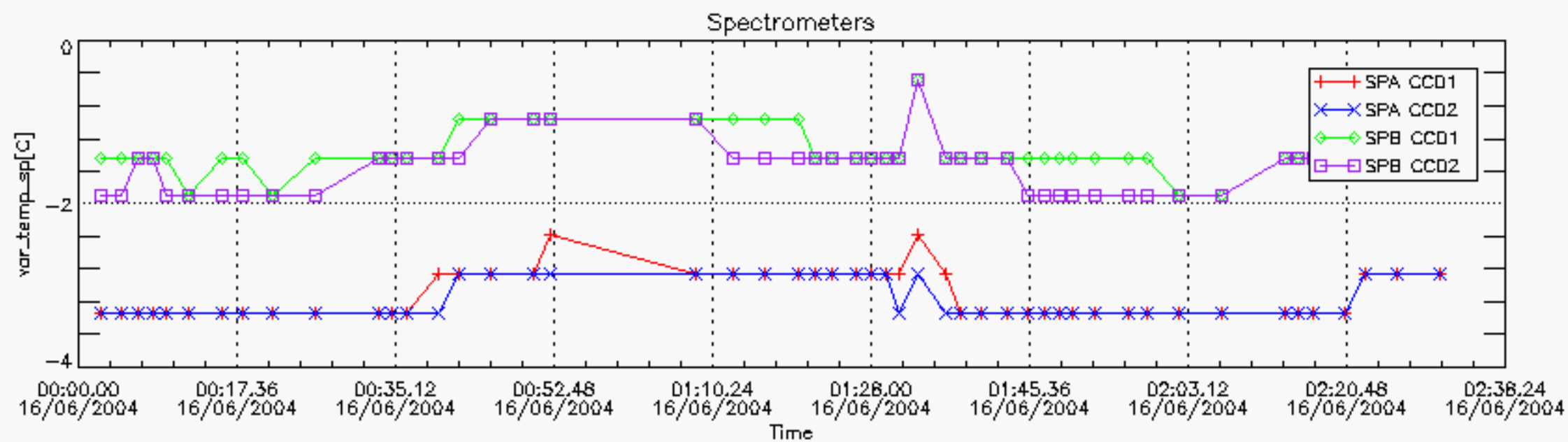
Tangent altitude at which the star is lost

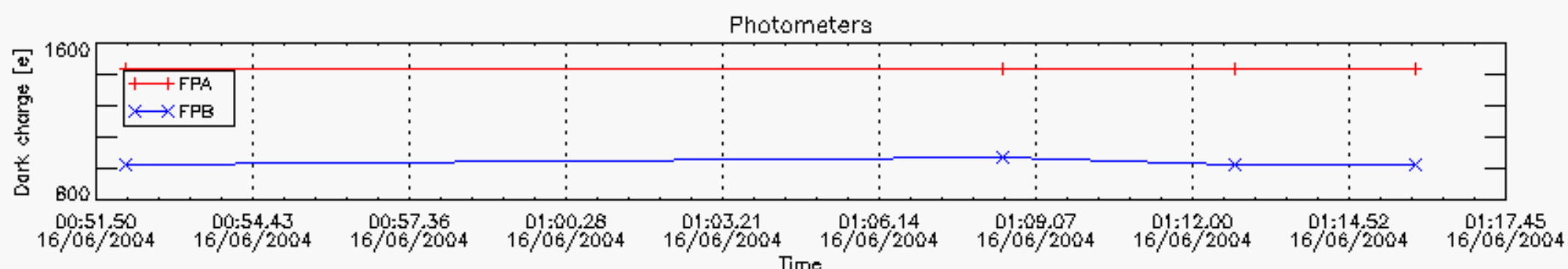
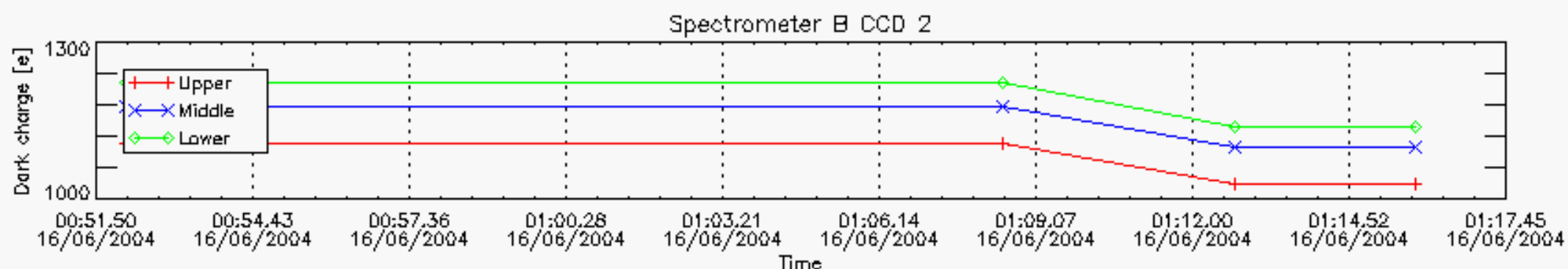
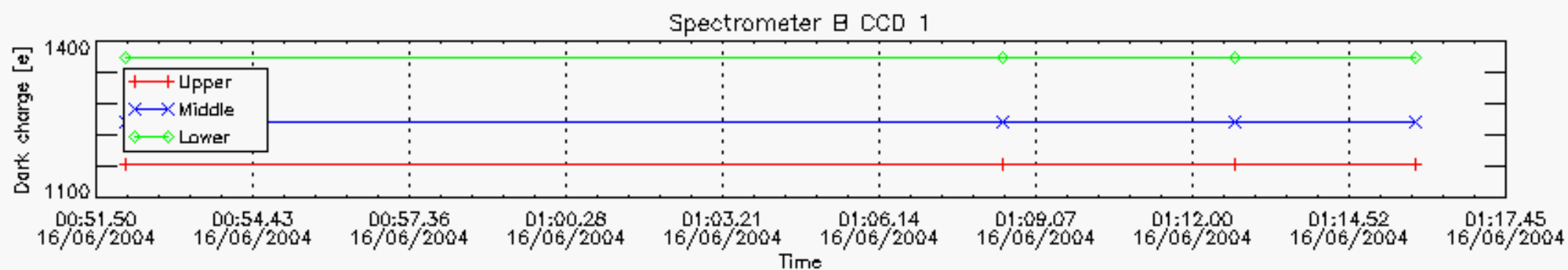
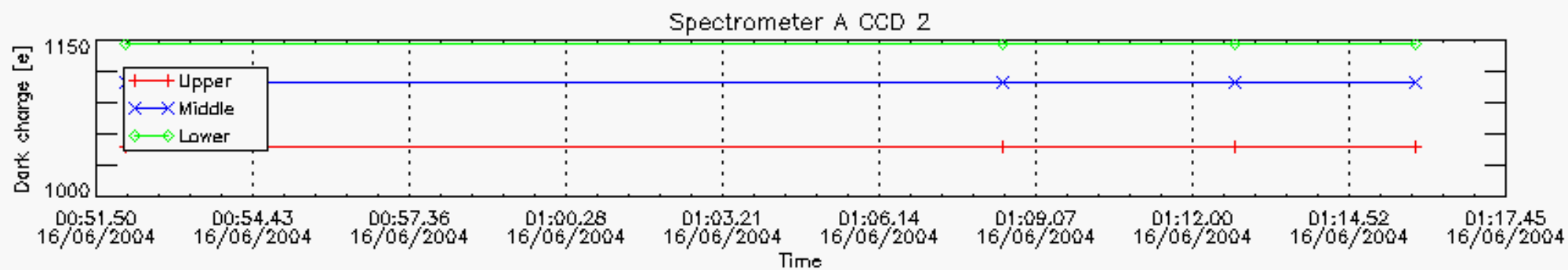
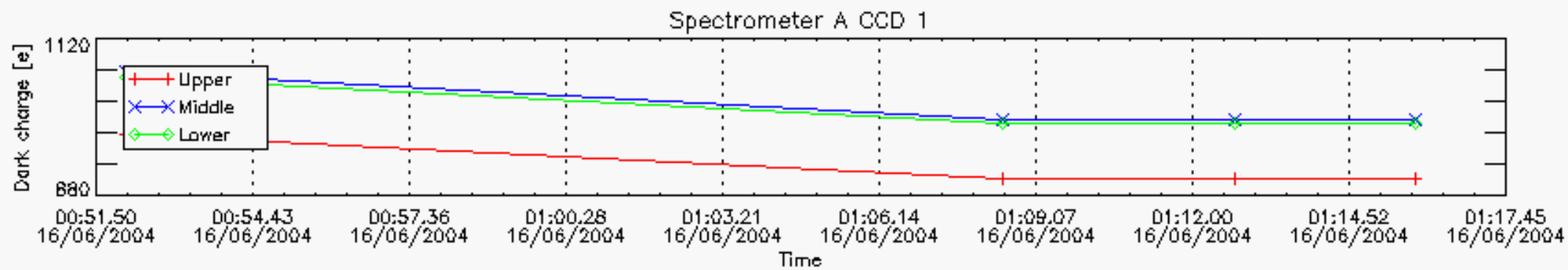


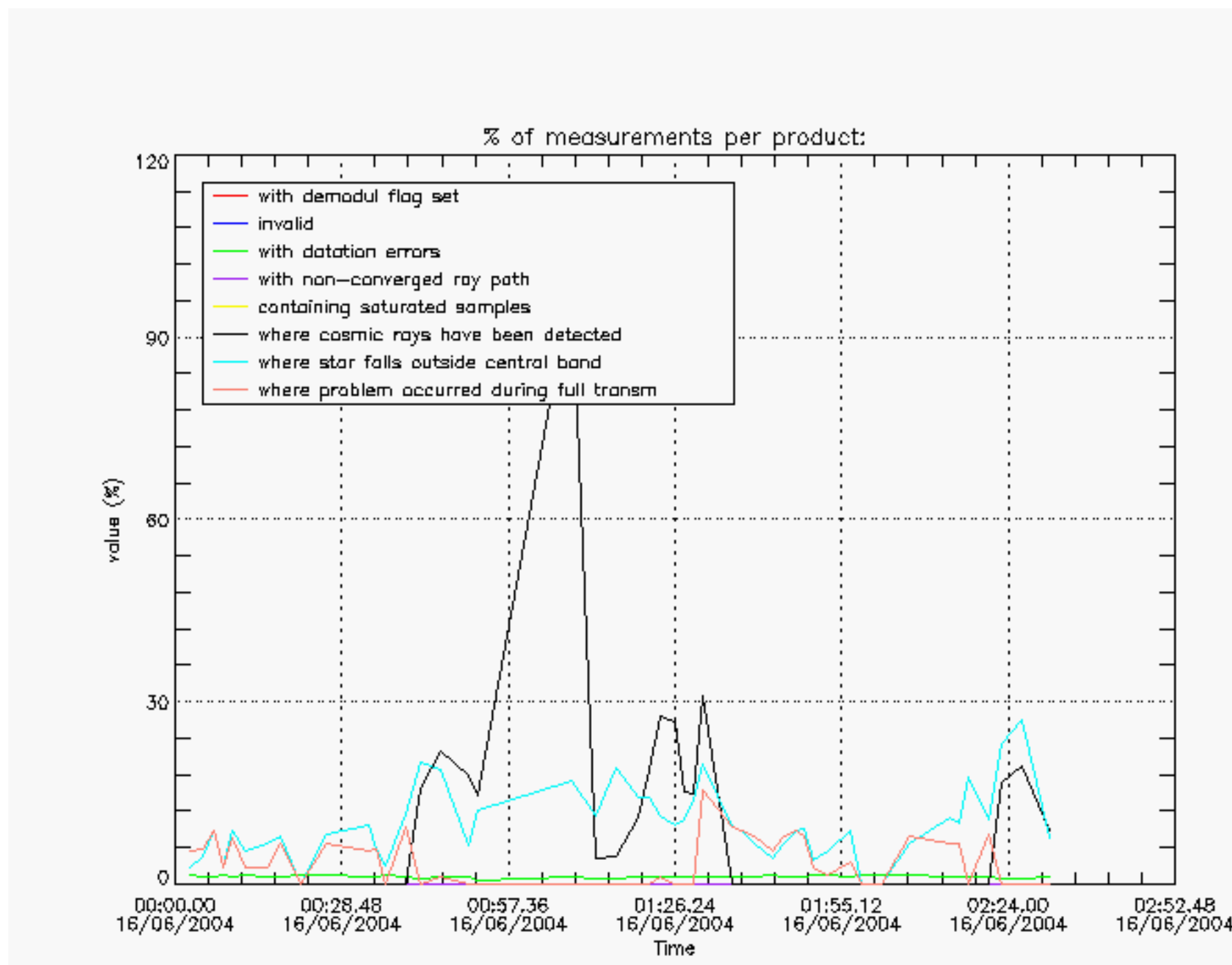
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1462.5	1449.8	1461.0	1446.7
St. deviation:	5.3799	7.0324	7.2032	8.2478
Maximum:	1505.0	1504.0	1505.0	1498.0
Minimum:	1446.0	1423.0	1433.0	1418.0
Number of data:	6450.0	6450.0	36100.	36100.

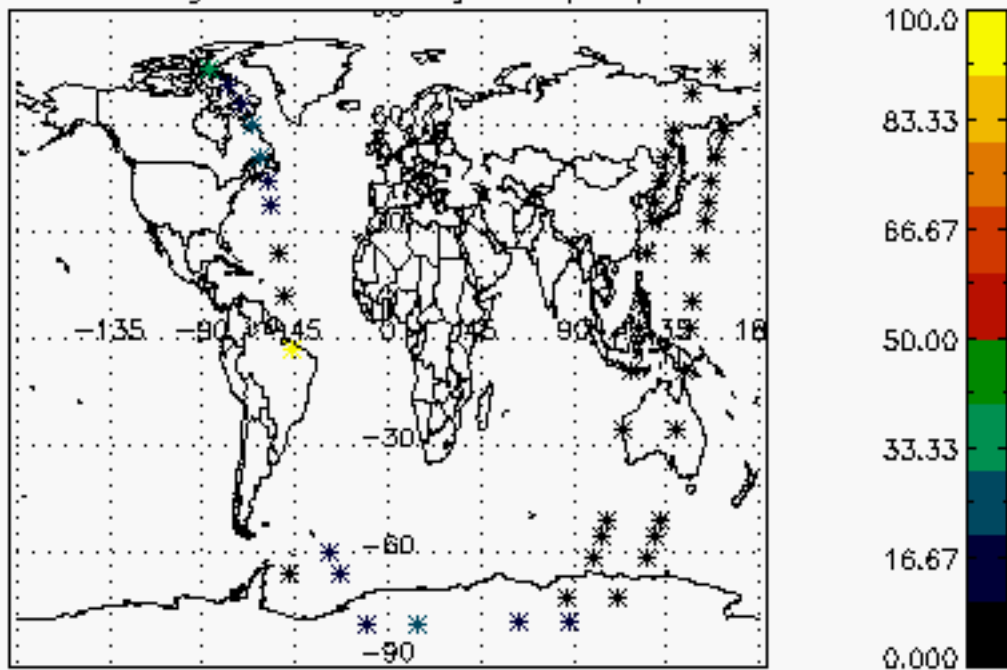




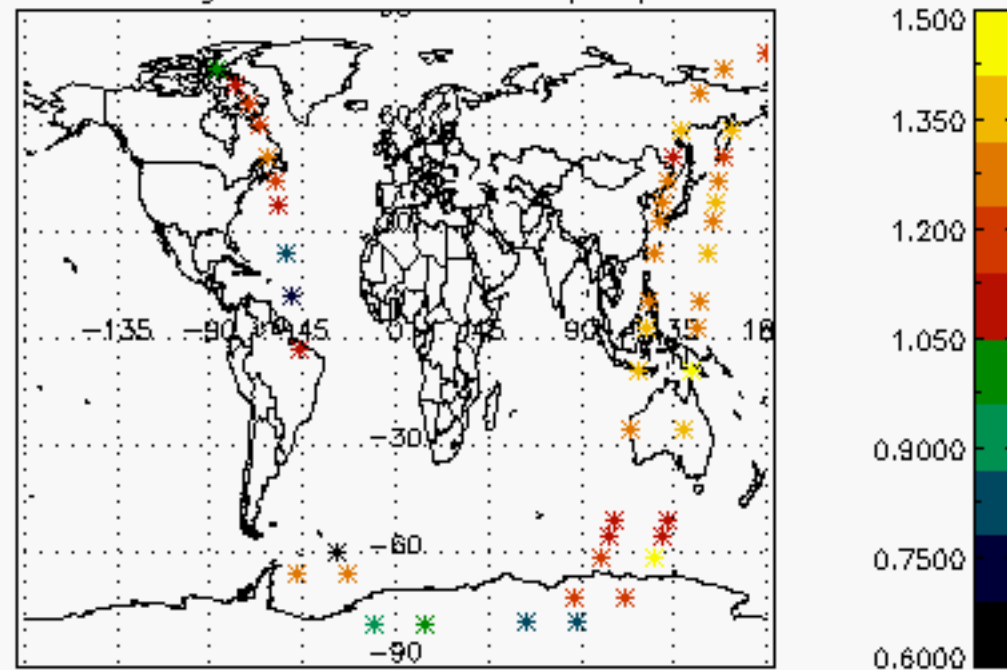




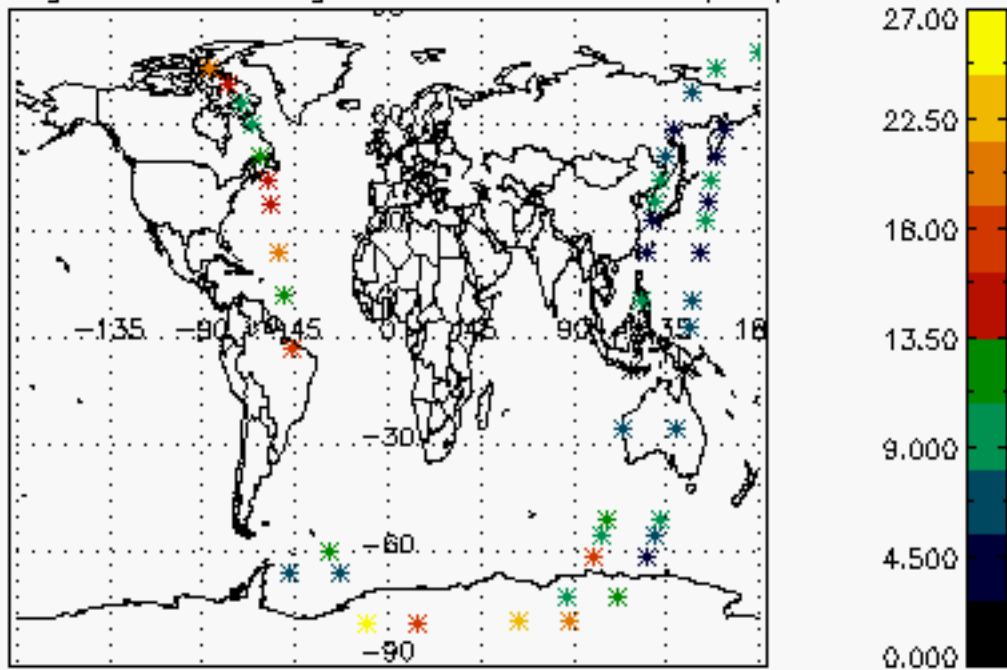
Percentage of cosmic ray hits per profile



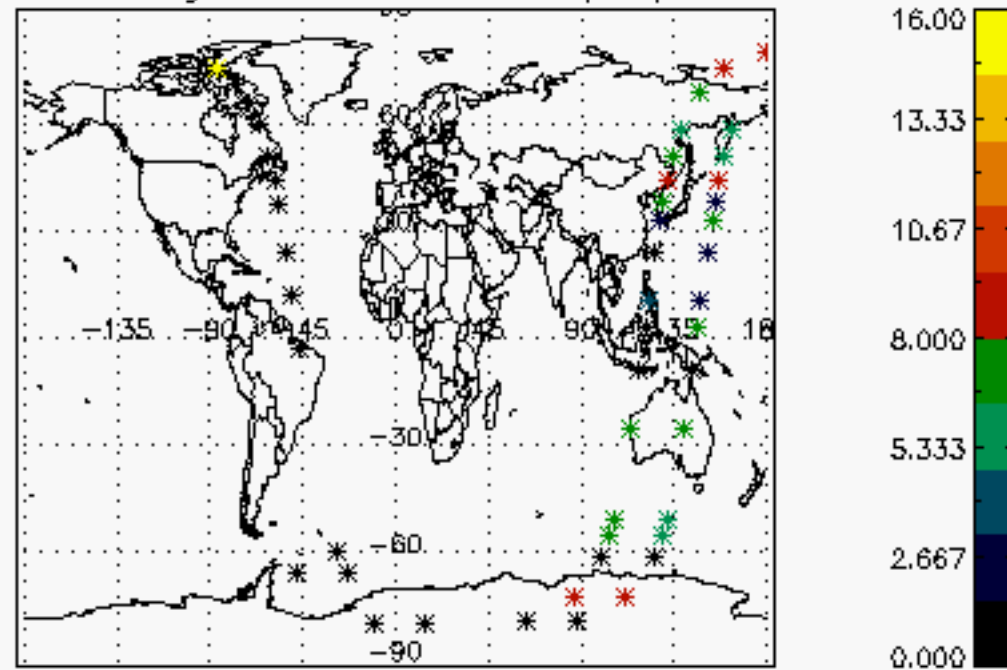
Percentage of datation errors per profile



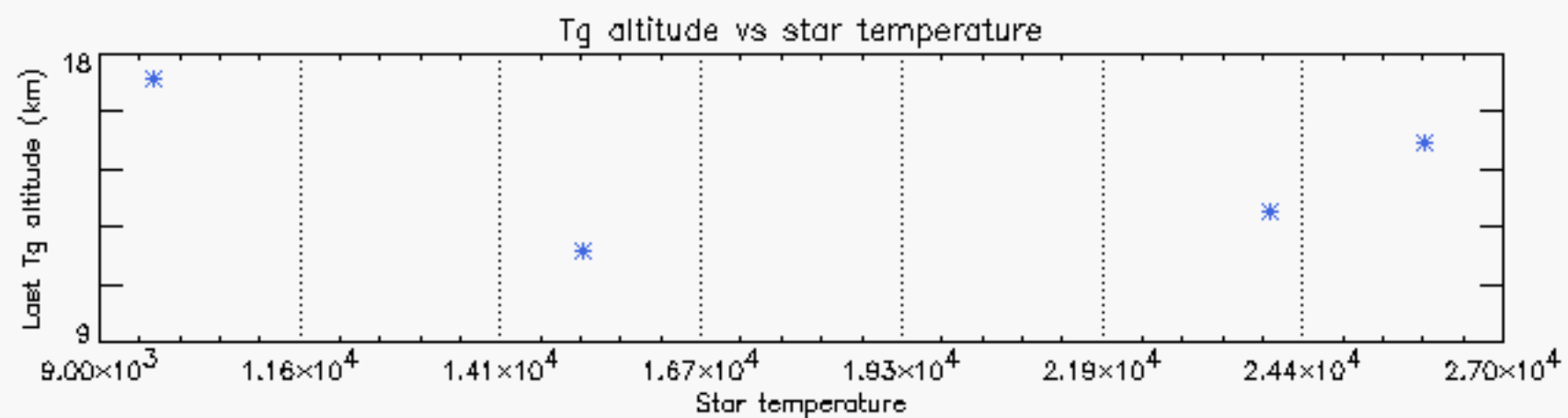
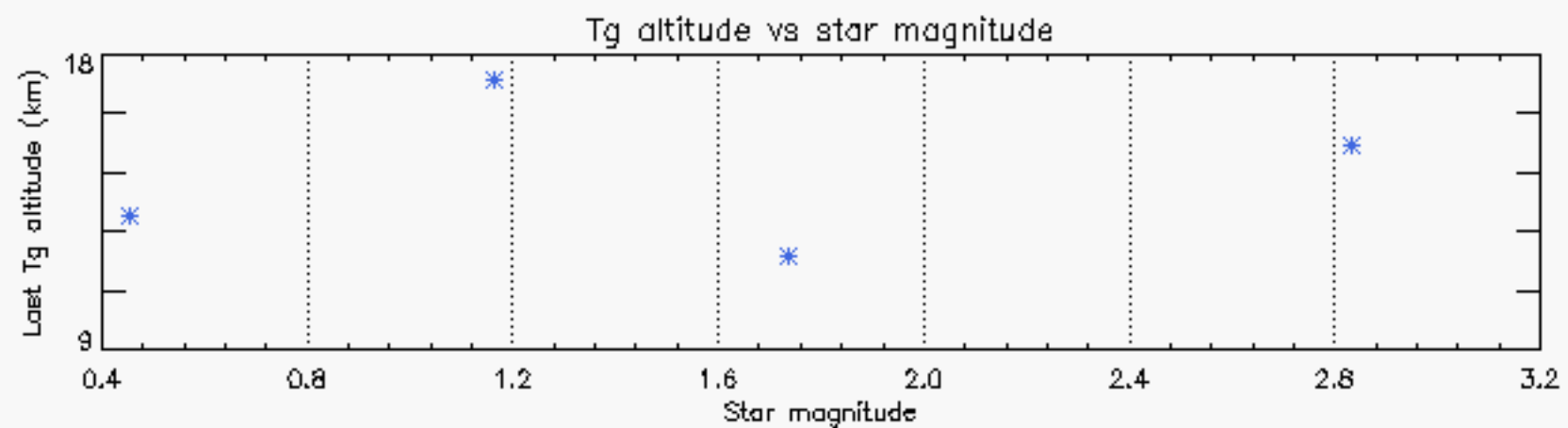
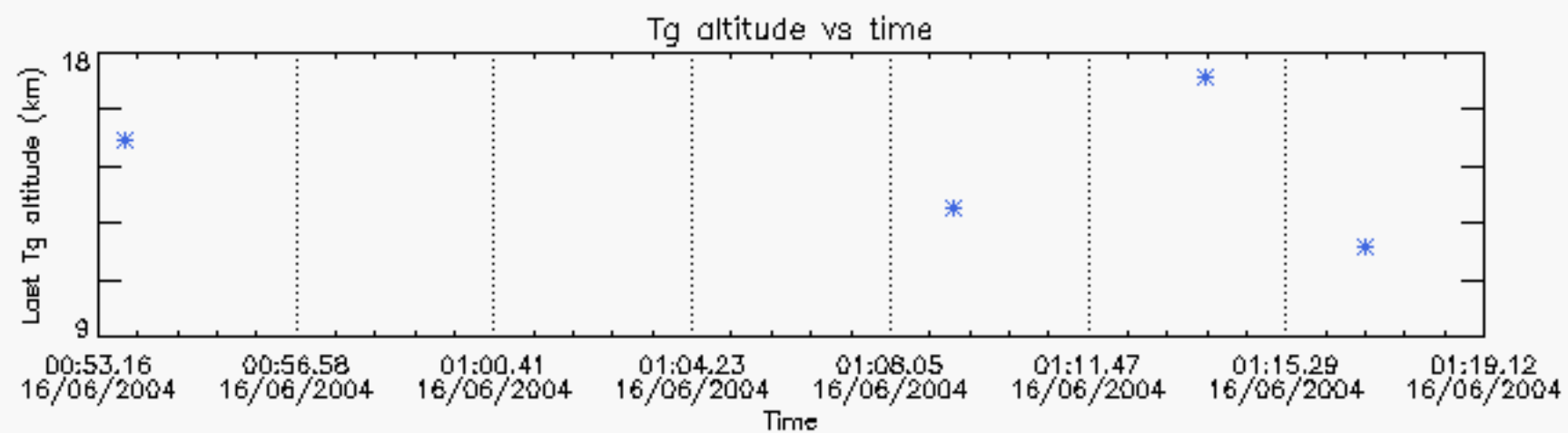
Percentage of star falling outside central band per profile



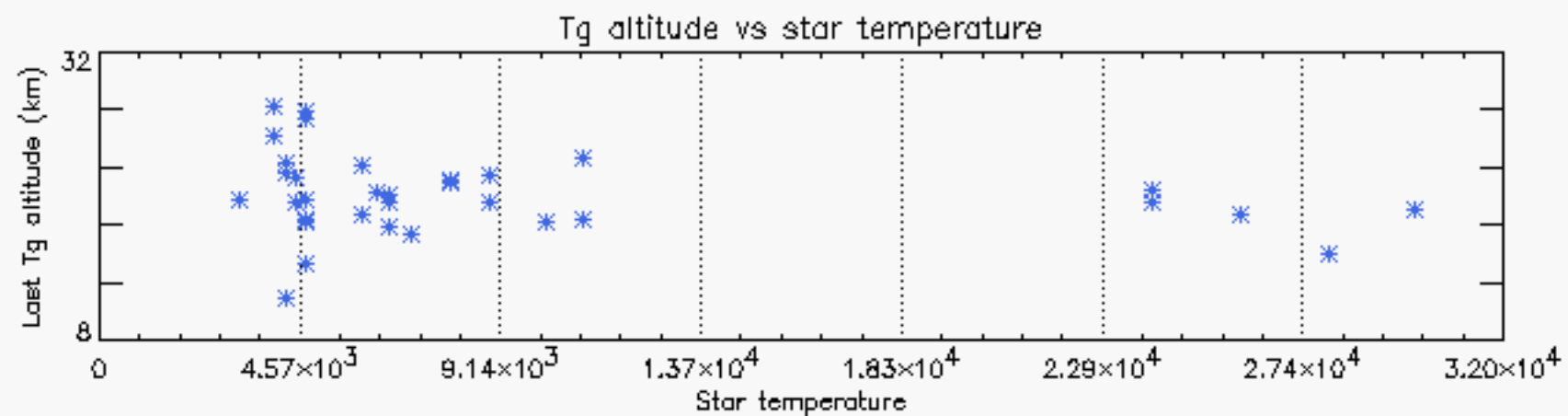
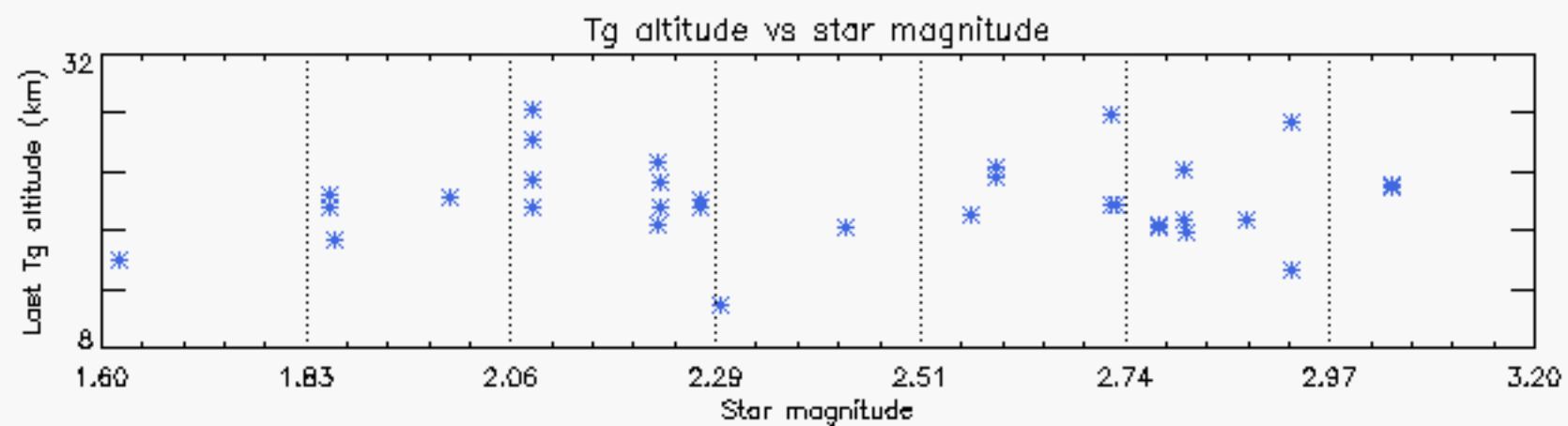
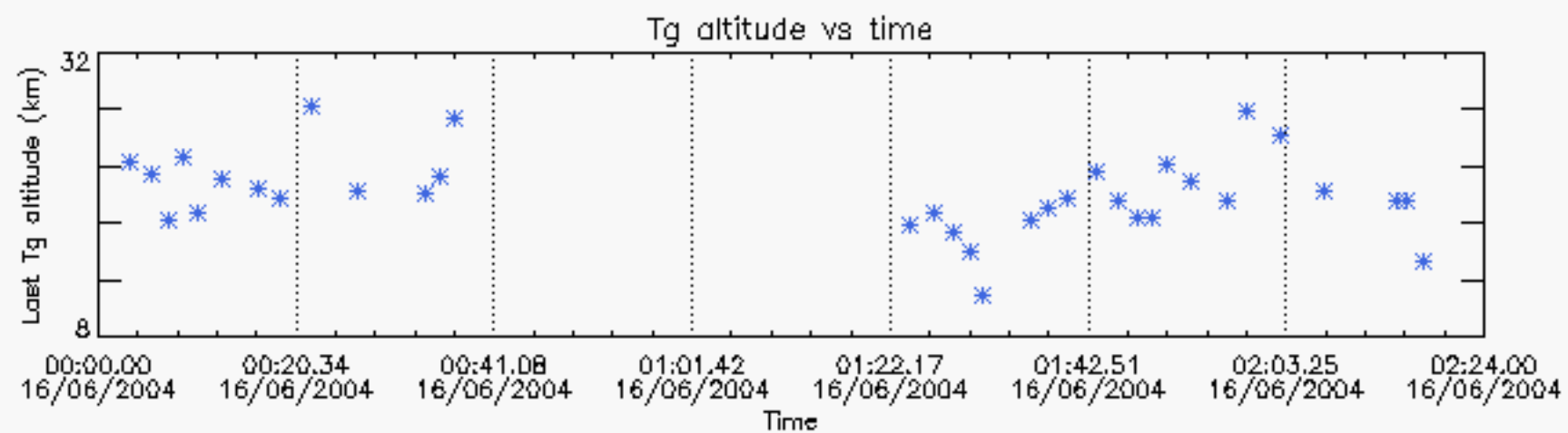
Percentage of saturation errors per profile



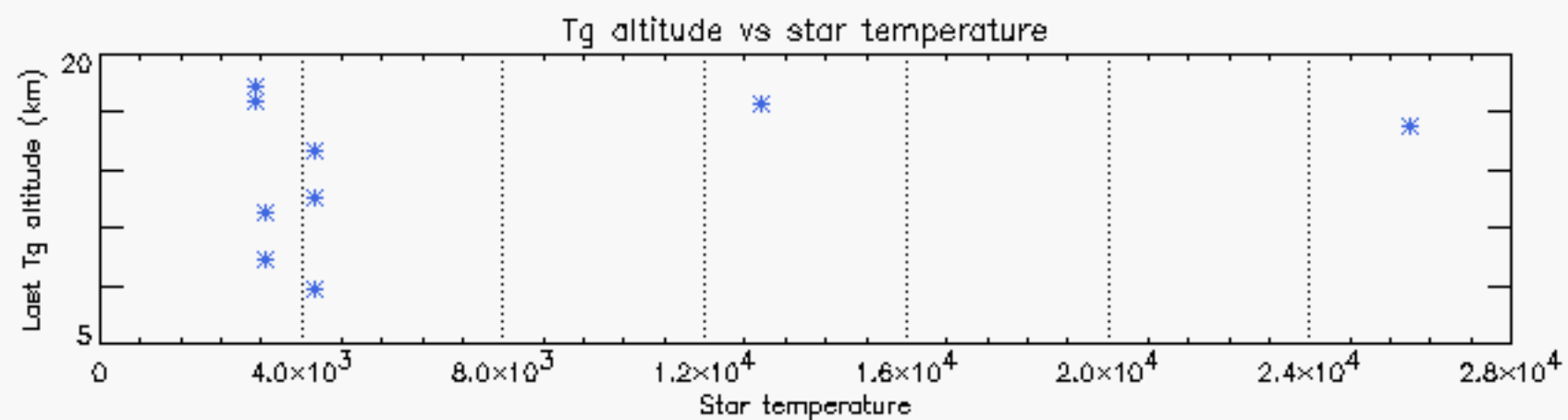
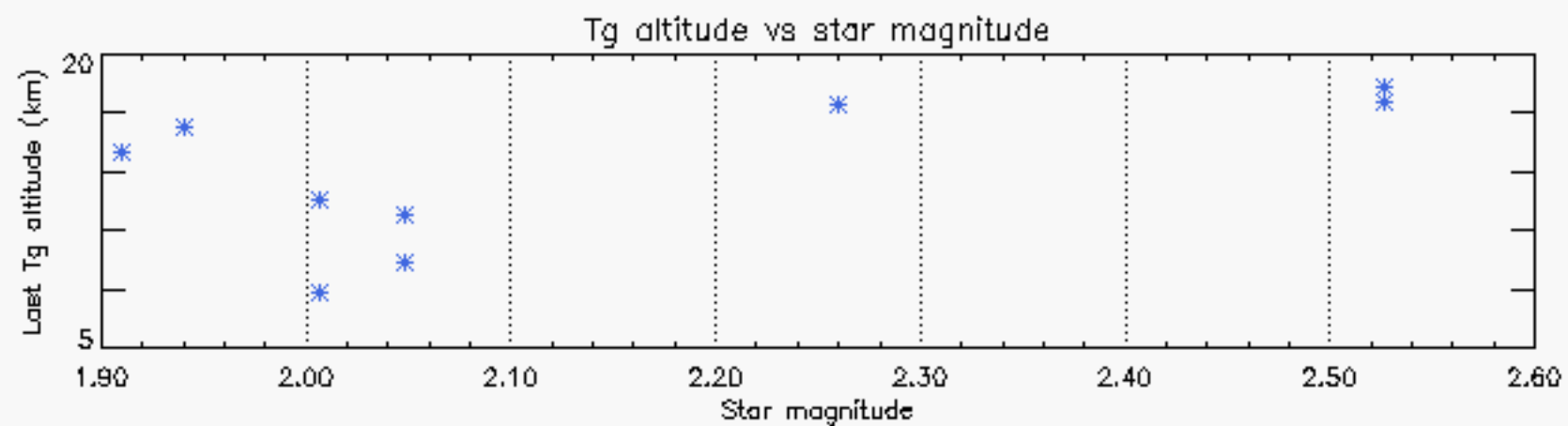
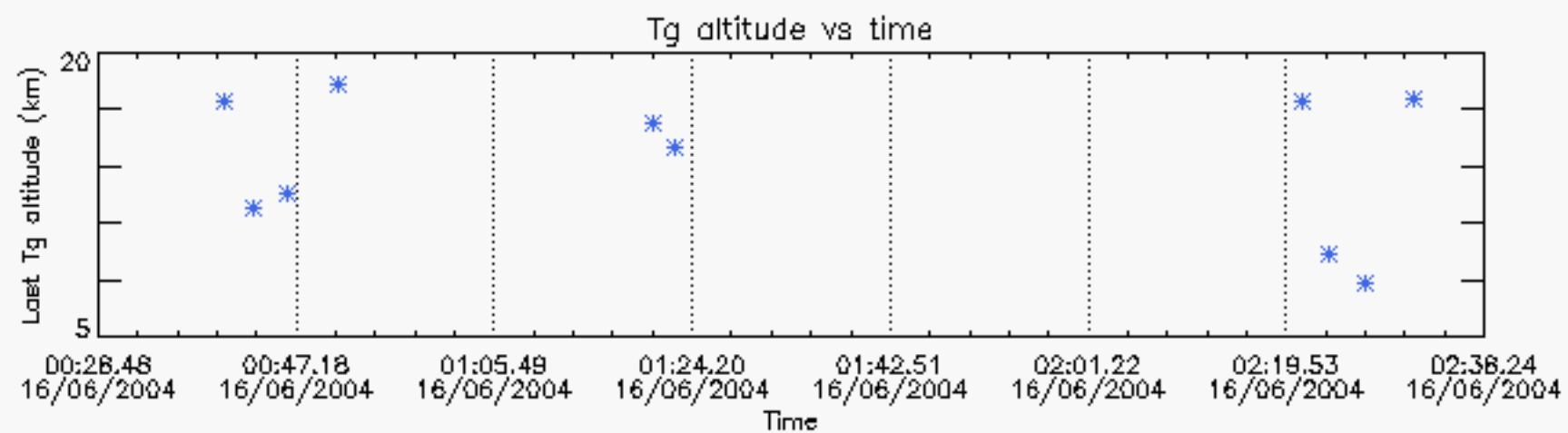
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20040601\_060933\_000061532027\_00206\_11783\_0854.N1

1;-4410.1; 01-JUN-2004 06:09:33; Bright; 47.0; 86; 35Eta Oph ; 2.43; 10200;occ; 94; 71;11783  
 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  
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4;	-3779.4;	01-JUN-2004	09:41:16;	Bright;	38.5;	3;	16Alp Boo	;	-0.05;	4250;occ;	77;	0;11785	
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9;	-3035.6;	01-JUN-2004	09:53:40;	Bright;	39.5;	119;	14Eta Dra	;	2.73;	4700;occ;	79;	0;11785	
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12;	-2414.1;	01-JUN-2004	10:04:01;	Bright;	48.5;	89;	5Alp Cep	;	2.45;	8000;occ;	97;	0;11785	
13;	-2271.4;	01-JUN-2004	10:06:24;	Bright;	83.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	166;	0;11785	
14;	-2109.3;	01-JUN-2004	10:09:06;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;11785	
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17;	-1384.9;	01-JUN-2004	10:21:10;	Dark	;	92.0;	93;	53Bet Peg	;	2.52;	3100;occ;	184;	0;11785
18;	-1179.9;	01-JUN-2004	10:24:35;	Dark	;	54.5;	140;	88Gam Peg	;	2.83;	26000;occ;	109;	0;11785
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23;	-111.6;	01-JUN-2004	10:42:24;	Dark	;	51.0;	9;	Alp Eri	;	0.45;	24000;occ;	102;	0;11785
24;	84.9;	01-JUN-2004	10:45:40;	Dark	;	50.0;	63;	Bet Gru	;	2.15;	2800;occ;	100;	0;11786
25;	198.2;	01-JUN-2004	10:47:34;	Dark	;	47.5;	31;	Alp Gru	;	1.73;	15200;occ;	95;	0;11786
26;	493.7;	01-JUN-2004	10:52:29;	Dark	;	45.5;	45;	Alp Pav	;	1.94;	26000;occ;	91;	0;11786
27;	707.4;	01-JUN-2004	10:56:03;	Dark	;	42.0;	43;	Alp TrA	;	1.91;	4250;occ;	84;	0;11786
28;	830.9;	01-JUN-2004	10:58:06;	Dark	;	39.5;	134;	Bet TrA	;	2.81;	6600;occ;	79;	0;11786
29;	938.1;	01-JUN-2004	10:59:53;	Dark	;	41.5;	147;	Alp Ara	;	2.88;	26000;occ;	83;	0;11786
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3;	-4203.7;	01-JUN-2004	11:14:47;	Bright;	41.5;	120;	1Del Oph	;	2.73;	3200;occ;	83;	0;11786	
4;	-4023.0;	01-JUN-2004	11:17:48;	Bright;	38.0;	102;	24Alp Ser	;	2.60;	4250;occ;	76;	0;11786	
5;	-3779.8;	01-JUN-2004	11:21:51;	Bright;	40.5;	3;	16Alp Boo	;	-0.05;	4250;occ;	81;	0;11786	
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8;	-3268.7;	01-JUN-2004	11:30:23;	Bright;	38.5;	39;	85Eta UMa	;	1.85;	24000;occ;	77;	0;11786	
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11;	-2874.7;	01-JUN-2004	11:36:57;	Bright;	41.5;	60;	7Bet UMi	;	2.08;	3950;occ;	83;	0;11786	
12;	-2592.3;	01-JUN-2004	11:41:39;	Bright;	39.0;	49;	1Alp UMi	;	1.99;	6300;occ;	78;	0;11786	
13;	-2415.0;	01-JUN-2004	11:44:36;	Bright;	47.5;	89;	5Alp Cep	;	2.45;	8000;occ;	95;	0;11786	
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16;	-1642.0;	01-JUN-2004	11:57:29;	Bright;	47.5;	53;	43Bet And	;	2.05;	3300;occ;	95;	0;11786	
17;	-1479.1;	01-JUN-2004	12:00:12;	Dark	;	57.0;	58;	21Alp And	;	2.07;	11000;occ;	114;	0;11786
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19;	-1179.0;	01-JUN-2004	12:05:12;	Dark	;	54.0;	140;	88Gam Peg	;	2.83;	26000;occ;	108;	0;11786
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22;	-470.6;	01-JUN-2004	12:17:01;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;11786	
23;	-237.6;	01-JUN-2004	12:20:54;	Dark	;	45.5;	84;	Alp Phe	;	2.40;	4500;occ;	91;	0;11786
24;	-111.0;	01-JUN-2004	12:23:00;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;11786
25;	85.5;	01-JUN-2004	12:26:17;	Dark	;	49.0;	63;	Bet Gru	;	2.15;	2800;occ;	98;	0;11787
26;	198.9;	01-JUN-2004	12:28:10;	Dark	;	48.5;	31;	Alp Gru	;	1.73;	15200;occ;	97;	0;11787
27;	494.1;	01-JUN-2004	12:33:05;	Dark	;	44.0;	45;	Alp Pav	;	1.94;	26000;occ;	88;	0;11787
28;	707.7;	01-JUN-2004	12:36:39;	Dark	;	42.5;	43;	Alp TrA	;	1.91;	4250;occ;	85;	0;11787
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22;	-22.7;	21-JUN-2004	11:55:44;	Dark	;	9;	Alp Eri	;	0.45;	24000;occ;	79;	0;	12072
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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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26; 3349.1; 30-JUN-2004 01:24:57; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;12195
27; 3788.4; 30-JUN-2004 01:32:17; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;12195
28; 3889.9; 30-JUN-2004 01:33:58; Bright; 49.0; 68; 18Alp Cas ; 2.22; 4500;occ; 98; 0;12195
29; 4062.1; 30-JUN-2004 01:36:50; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;12195
30; 4164.1; 30-JUN-2004 01:38:32; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;12195
31; 4266.4; 30-JUN-2004 01:40:15; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;12195
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