

# GOMOS Daily Report 13-OCT-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	15OCT2004 05:01:33
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (13OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (14OCT2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	46
Nb of prods with errors	1

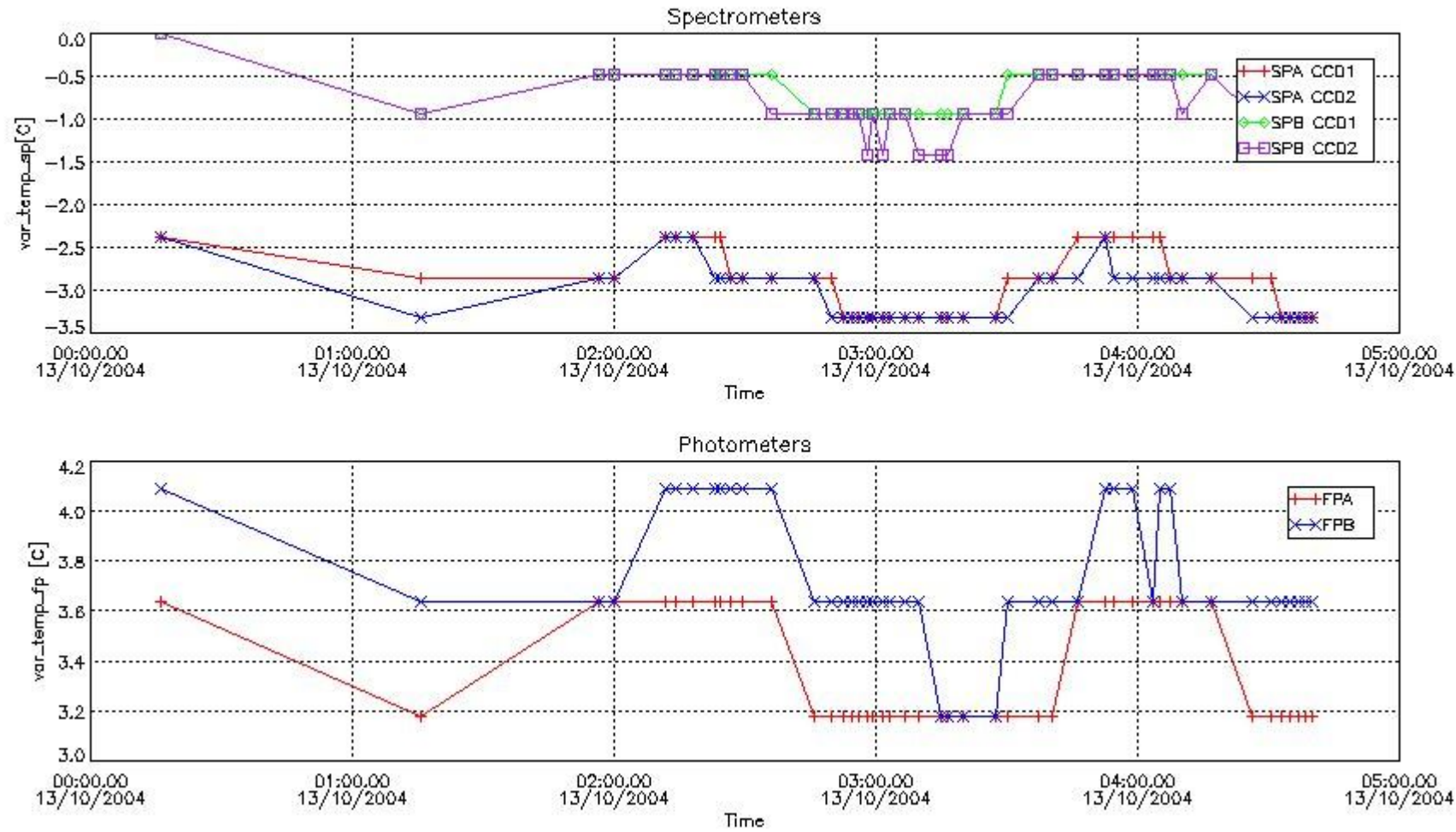
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20041013_001602_000000562031_00116_13697_0000.N1	13-OCT-2004 00:16:02	Twilight	55.500	48	30Alp Hya	1.9770	4100.0	111	13697	Yes
GOM_TRA_1PNPDE20041013_011536_000000472031_00117_13698_0015.N1	13-OCT-2004 01:15:36	Bright	47.000	73	57Gam1And	2.2600	13100.	94	13698	No
GOM_TRA_1PNPDE20041013_015638_000000612031_00117_13698_0000.N1	13-OCT-2004 01:56:38	Twilight	61.000	48	30Alp Hya	1.9770	4100.0	122	13698	No
GOM_TRA_1PNPDE20041013_015949_000001242031_00117_13698_0001.N1	13-OCT-2004 01:59:49	Dark	124.00	8	10Alp CMi	0.40000	6500.0	248	13698	No
GOM_TRA_1PNPDE20041013_021156_000000672031_00118_13699_0002.N1	13-OCT-2004 02:11:56	Dark	67.000	23	21Eps CMa	1.5020	26000.	134	13699	No
GOM_TRA_1PNPDE20041013_021400_000001312031_00118_13699_0003.N1	13-OCT-2004 02:14:00	Dark	131.00	1	9Alp CMa	-1.4400	11000.	262	13699	No
GOM_TRA_1PNPDE20041013_021807_000001482031_00118_13699_0004.N1	13-OCT-2004 02:18:07	Dark	147.50	47	2Bet CMa	1.9760	28000.	295	13699	No
GOM_TRA_1PNPDE20041013_022258_000000402031_00118_13699_0005.N1	13-OCT-2004 02:22:58	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	13699	No
GOM_TRA_1PNPDE20041013_022424_000000532031_00118_13699_0006.N1	13-OCT-2004 02:24:24	Dark	53.000	9	Alp Eri	0.45300	24000.	106	13699	No
GOM_TRA_1PNPDE20041013_022648_000000512031_00118_13699_0007.N1	13-OCT-2004 02:26:48	Dark	50.500	157	The1Eri	2.9060	9300.0	101	13699	No
GOM_TRA_1PNPDE20041013_022929_000000512031_00118_13699_0008.N1	13-OCT-2004 02:29:29	Twilight	50.500	84	Alp Phe	2.3970	4500.0	101	13699	No
GOM_TRA_1PNPDE20041013_023606_000000472031_00118_13699_0009.N1	13-OCT-2004 02:36:06	Bright	46.500	52	16Bet Cet	2.0370	4500.0	93	13699	No
GOM_TRA_1PNPDE20041013_024550_000000402031_00118_13699_0010.N1	13-OCT-2004 02:45:50	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	13699	No
GOM_TRA_1PNPDE20041013_024949_000000392031_00118_13699_0011.N1	13-OCT-2004 02:49:49	Bright	38.500	58	21Alp And	2.0730	11000.	77	13699	No
GOM_TRA_1PNPDE20041013_025228_000000492031_00118_13699_0012.N1	13-OCT-2004 02:52:28	Bright	48.500	53	43Bet And	2.0480	3300.0	97	13699	No
GOM_TRA_1PNPDE20041013_025423_000000492031_00118_13699_0013.N1	13-OCT-2004 02:54:23	Bright	48.500	173	4Bet Tri	3.0040	8900.0	97	13699	No
GOM_TRA_1PNPDE20041013_025611_000000472031_00118_13699_0014.N1	13-OCT-2004 02:56:11	Bright	46.500	73	57Gam1And	2.2600	13100.	93	13699	No
GOM_TRA_1PNPDE20041013_025756_000000412031_00118_13699_0015.N1	13-OCT-2004 02:57:56	Bright	41.000	68	18Alp Cas	2.2250	4500.0	82	13699	No
GOM_TRA_1PNPDE20041013_025919_000000412031_00118_13699_0016.N1	13-OCT-2004 02:59:19	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	13699	No
GOM_TRA_1PNPDE20041013_030135_000000472031_00118_13699_0017.N1	13-OCT-2004 03:01:35	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	13699	No
GOM_TRA_1PNPDE20041013_030309_000000572031_00118_13699_0018.N1	13-OCT-2004 03:03:09	Bright	56.500	175	39Del Per	3.0100	19400.	113	13699	No
GOM_TRA_1PNPDE20041013_030648_000000412031_00118_13699_0019.N1	13-OCT-2004 03:06:48	Bright	41.000	49	1Alp UMi	1.9900	6300.0	82	13699	No
GOM_TRA_1PNPDE20041013_030939_000000432031_00118_13699_0000.N1	13-OCT-2004 03:09:39	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	13699	No
GOM_TRA_1PNPDE20041013_031500_000000422031_00118_13699_0001.N1	13-OCT-2004 03:15:00	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	13699	No
GOM_TRA_1PNPDE20041013_031633_000000382031_00118_13699_0002.N1	13-OCT-2004 03:16:33	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	13699	No
GOM_TRA_1PNPDE20041013_031956_000000382031_00118_13699_0003.N1	13-OCT-2004 03:19:56	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	13699	No
GOM_TRA_1PNPDE20041013_032729_000000952031_00118_13699_0004.N1	13-OCT-2004 03:27:29	Bright	94.500	17	78Bet Gem	1.1610	4500.0	189	13699	No
GOM_TRA_1PNPDE20041013_033003_000000432031_00118_13699_0005.N1	13-OCT-2004 03:30:03	Twilight	43.000	22	32Alp Leo	1.3600	15200.	86	13699	No
GOM_TRA_1PNPDE20041013_033715_000000532031_00118_13699_0006.N1	13-OCT-2004 03:37:15	Twilight	52.500	48	30Alp Hya	1.9770	4100.0	105	13699	No
GOM_TRA_1PNPDE20041013_034027_000001172031_00118_13699_0007.N1	13-OCT-2004 03:40:27	Dark	117.00	8	10Alp CMi	0.40000	6500.0	234	13699	No
GOM_TRA_1PNPDE20041013_034611_000000412031_00118_13699_0008.N1	13-OCT-2004 03:46:11	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	13699	No
GOM_TRA_1PNPDE20041013_035233_000000402031_00119_13700_0009.N1	13-OCT-2004 03:52:33	Dark	40.000	29	Bet Car	1.6720	10200.	80	13700	No
GOM_TRA_1PNPDE20041013_035439_000001272031_00119_13700_0010.N1	13-OCT-2004 03:54:39	Dark	127.00	1	9Alp CMa	-1.4400	11000.	254	13700	No
GOM_TRA_1PNPDE20041013_035846_000001532031_00119_13700_0011.N1	13-OCT-2004 03:58:46	Dark	153.00	47	2Bet CMa	1.9760	28000.	306	13700	No
GOM_TRA_1PNPDE20041013_040334_000000402031_00119_13700_0012.N1	13-OCT-2004 04:03:34	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	13700	No
GOM_TRA_1PNPDE20041013_040501_000000532031_00119_13700_0013.N1	13-OCT-2004 04:05:01	Dark	52.500	9	Alp Eri	0.45300	24000.	105	13700	No
GOM_TRA_1PNPDE20041013_040727_000000492031_00119_13700_0014.N1	13-OCT-2004 04:07:27	Dark	49.000	157	The1Eri	2.9060	9300.0	98	13700	No
GOM_TRA_1PNPDE20041013_041005_000000422031_00119_13700_0015.N1	13-OCT-2004 04:10:05	Twilight	42.000	84	Alp Phe	2.3970	4500.0	84	13700	No
GOM_TRA_1PNPDE20041013_041643_000000492031_00119_13700_0016.N1	13-OCT-2004 04:16:43	Bright	48.500	52	16Bet Cet	2.0370	4500.0	97	13700	No
GOM_TRA_1PNPDE20041013_042627_000000382031_00119_13700_0017.N1	13-OCT-2004 04:26:27	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	13700	No
GOM_TRA_1PNPDE20041013_043025_000000392031_00119_13700_0018.N1	13-OCT-2004 04:30:25	Bright	38.500	58	21Alp And	2.0730	11000.	77	13700	No
GOM_TRA_1PNPDE20041013_043306_000000462031_00119_13700_0019.N1	13-OCT-2004 04:33:06	Bright	46.000	53	43Bet And	2.0480	3300.0	92	13700	No
GOM_TRA_1PNPDE20041013_043459_000000482031_00119_13700_0020.N1	13-OCT-2004 04:34:59	Bright	47.500	173	4Bet Tri	3.0040	8900.0	95	13700	No
GOM_TRA_1PNPDE20041013_043647_000000492031_00119_13700_0021.N1	13-OCT-2004 04:36:47	Bright	49.000	73	57Gam1And	2.2600	13100.	98	13700	No
GOM_TRA_1PNPDE20041013_043833_000000412031_00119_13700_0022.N1	13-OCT-2004 04:38:33	Bright	41.000	68	18Alp Cas	2.2250	4500.0	82	13700	No
GOM_TRA_1PNPDE20041013_043956_000000402031_00119_13700_0023.N1	13-OCT-2004 04:39:56	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	13700	No

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



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

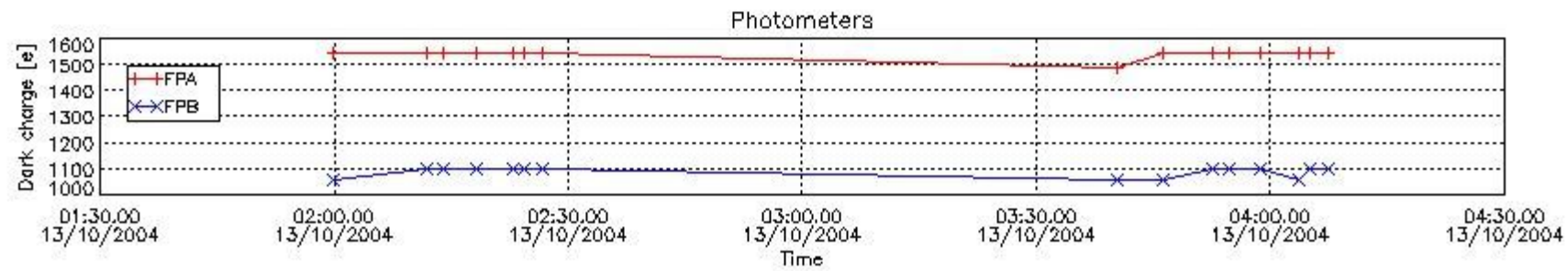
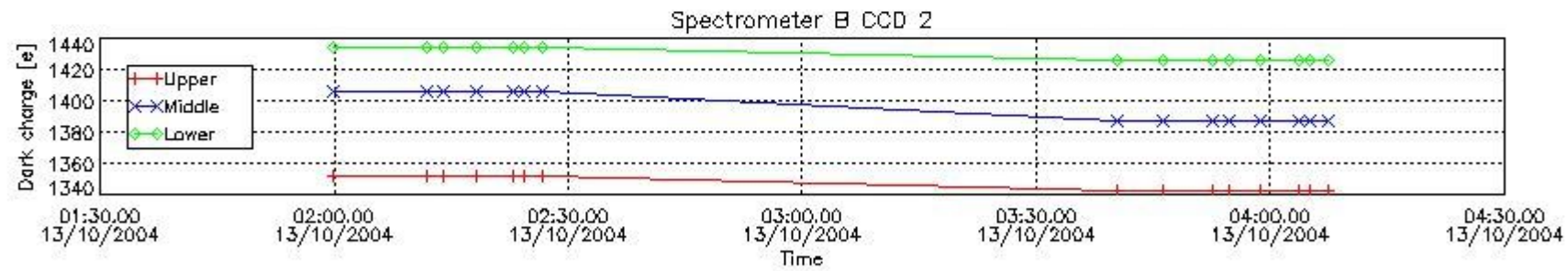
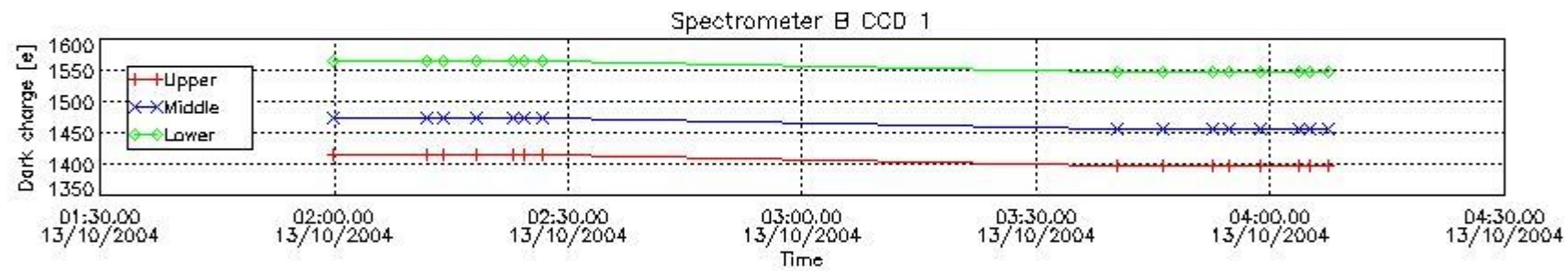
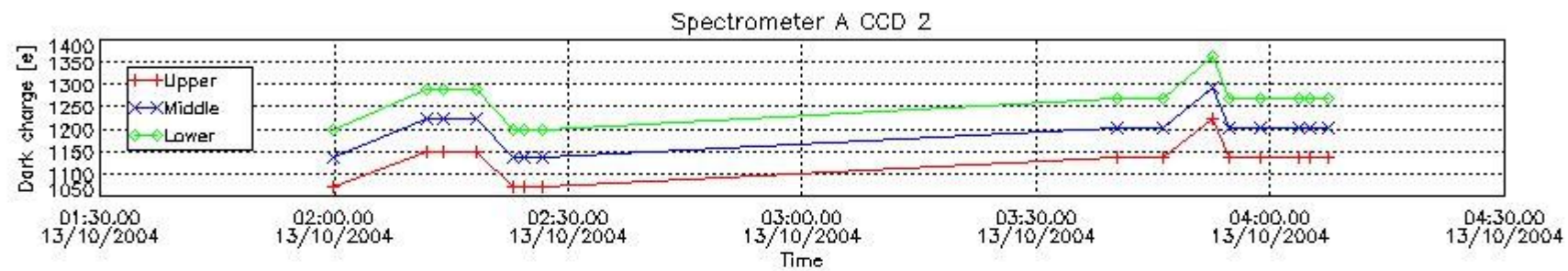
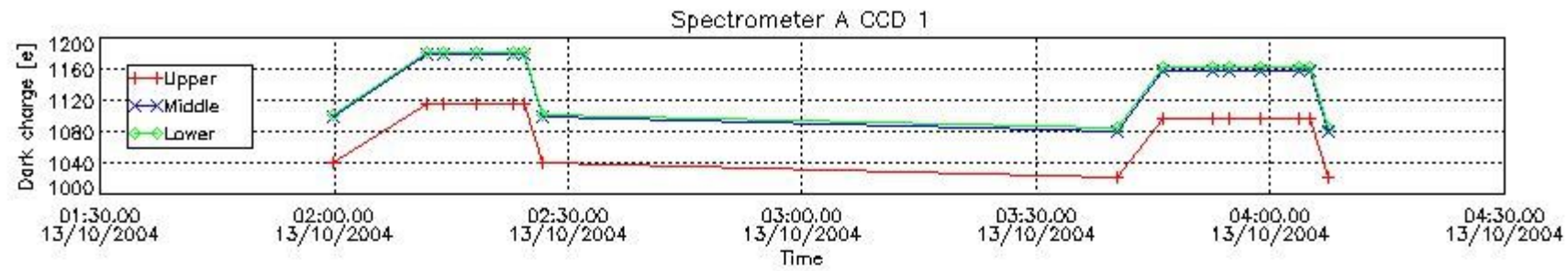
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





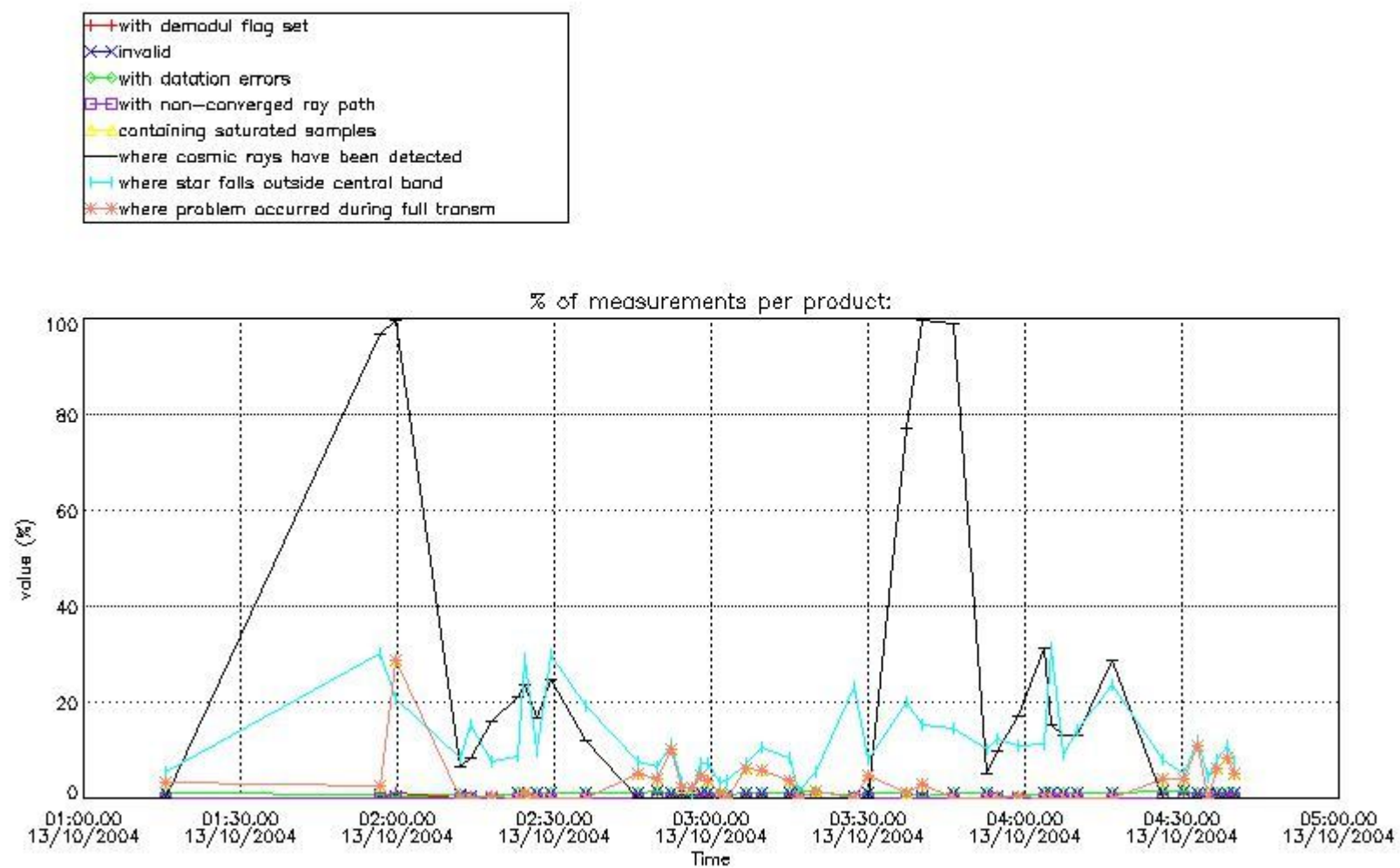
## 5. Demodulation flag and quality information monitoring

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:

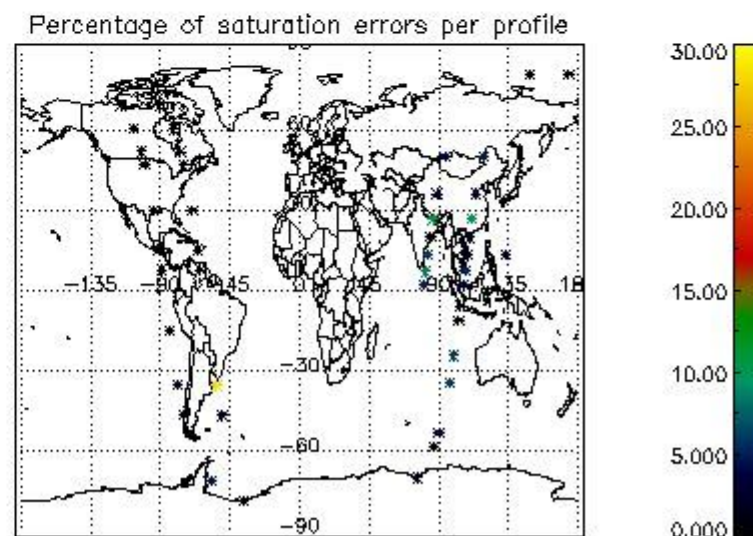
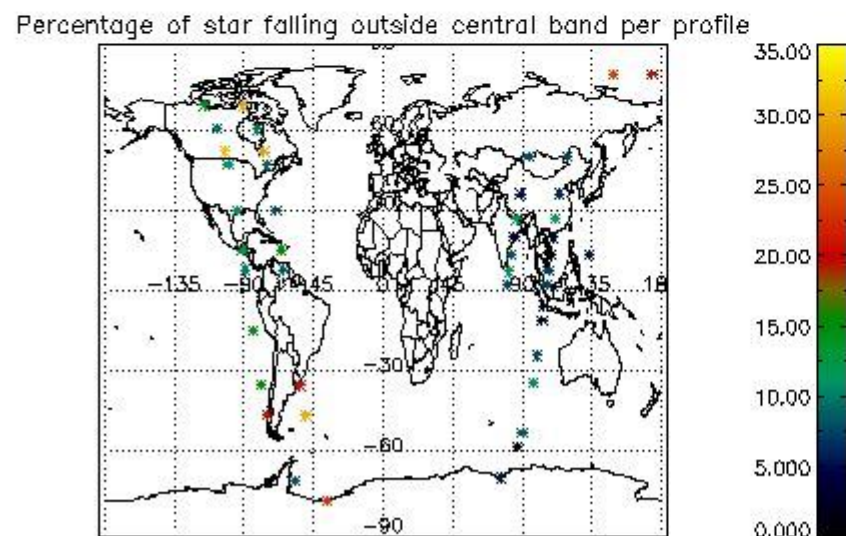
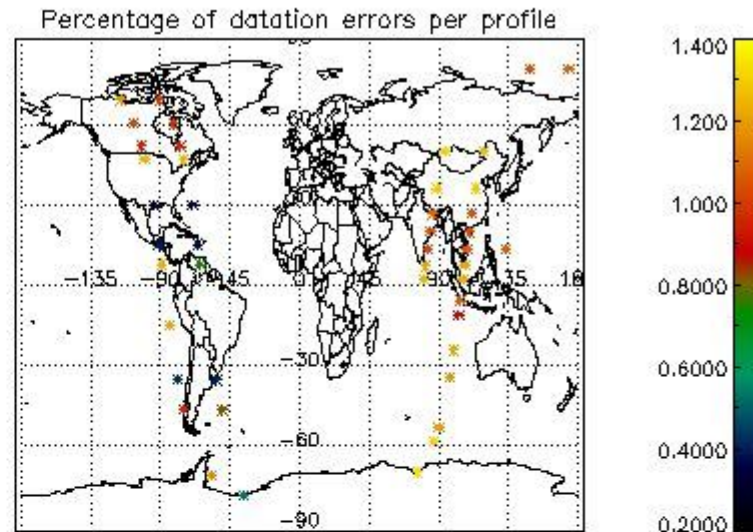
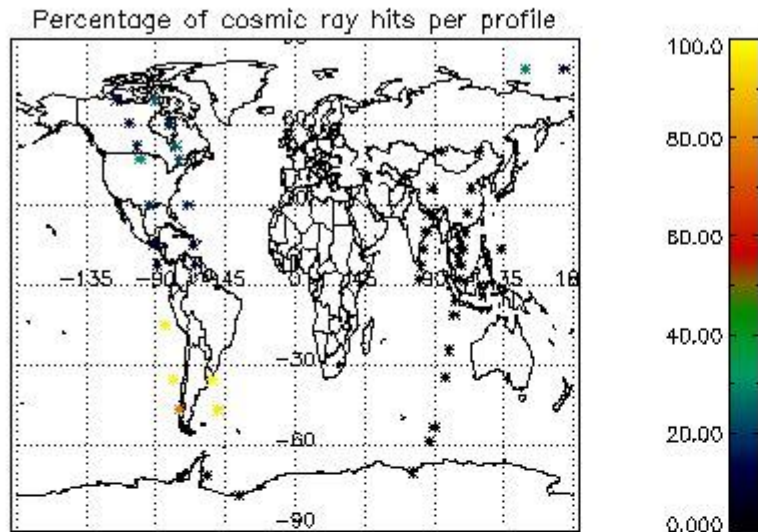
At least one measurement with demodulation flag set:	20.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





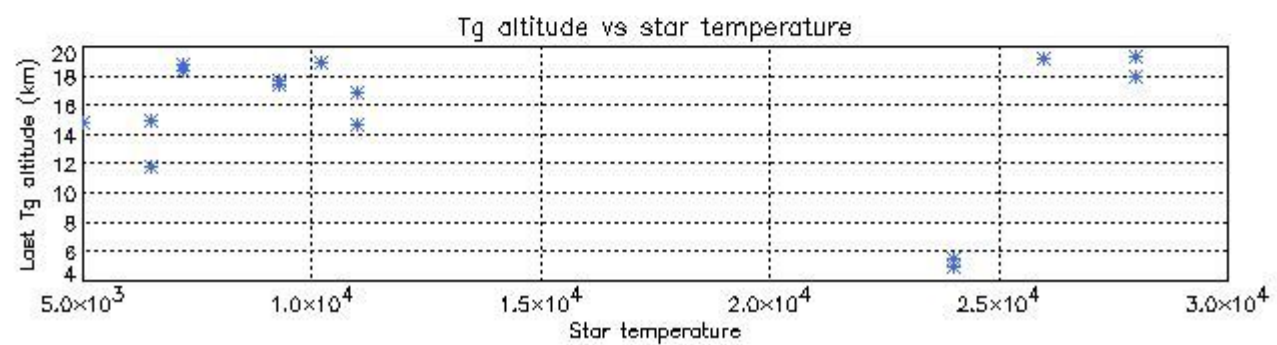
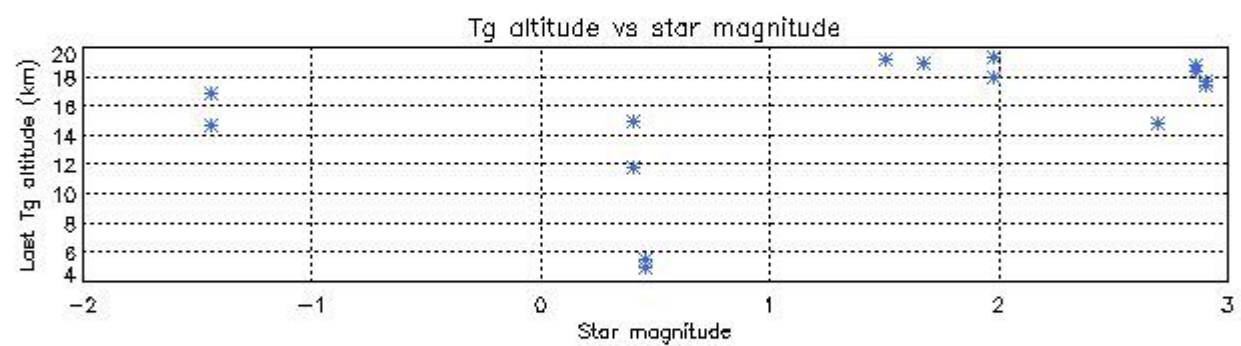
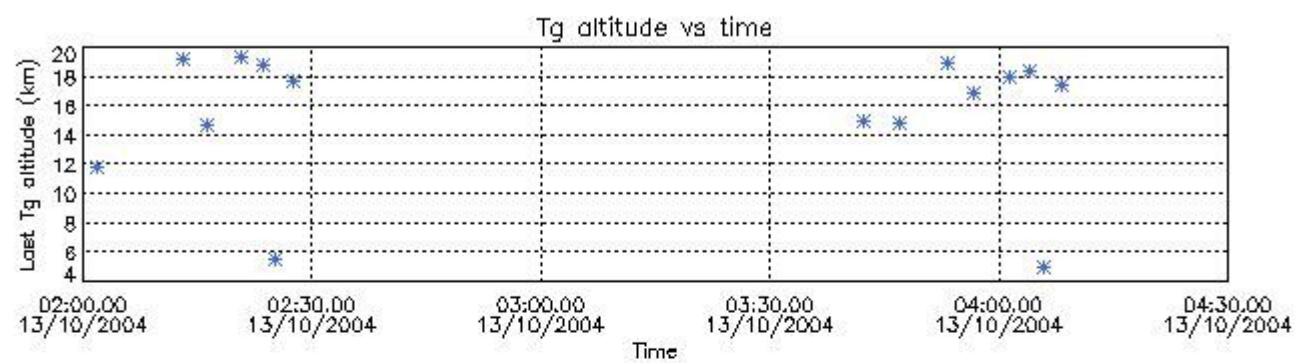
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.390	19.605	11.150
St. deviation:	4.6402	4.4172	5.0997
Maximum:	19.262	26.687	17.195
Minimum:	4.9050	9.5750	5.7585
Number of data:	15.000	25.000	5.0000

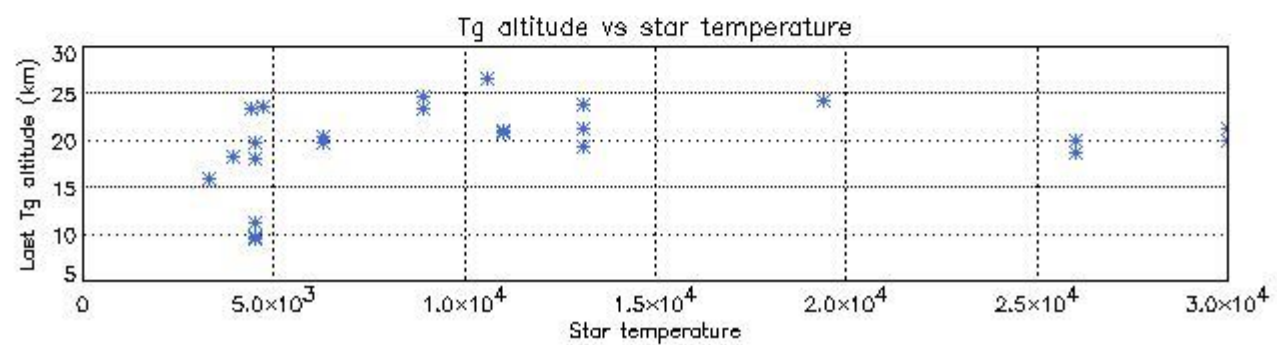
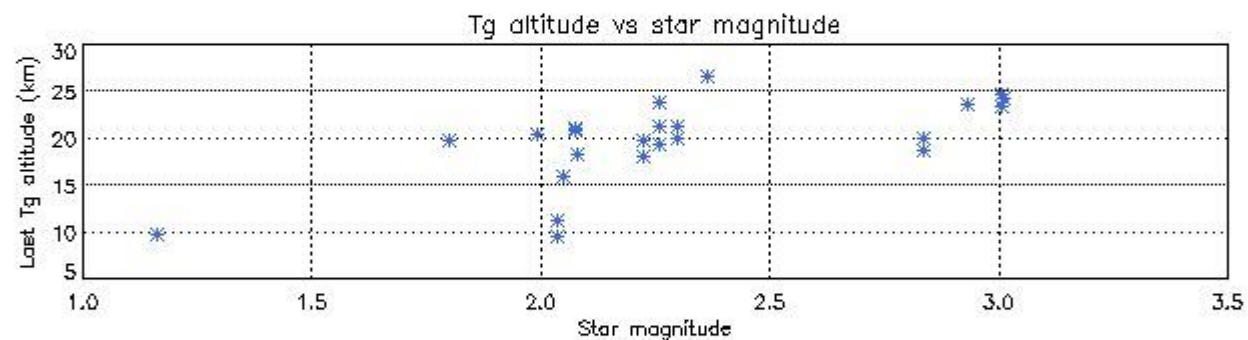
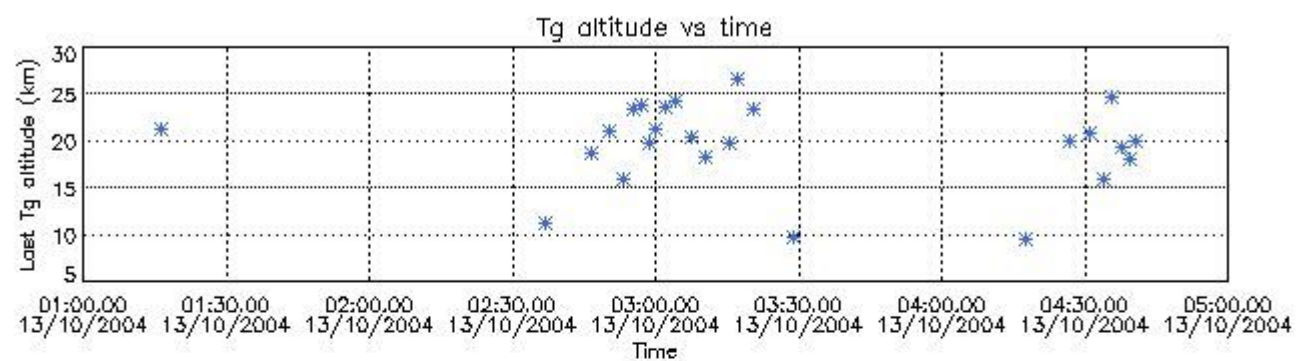
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

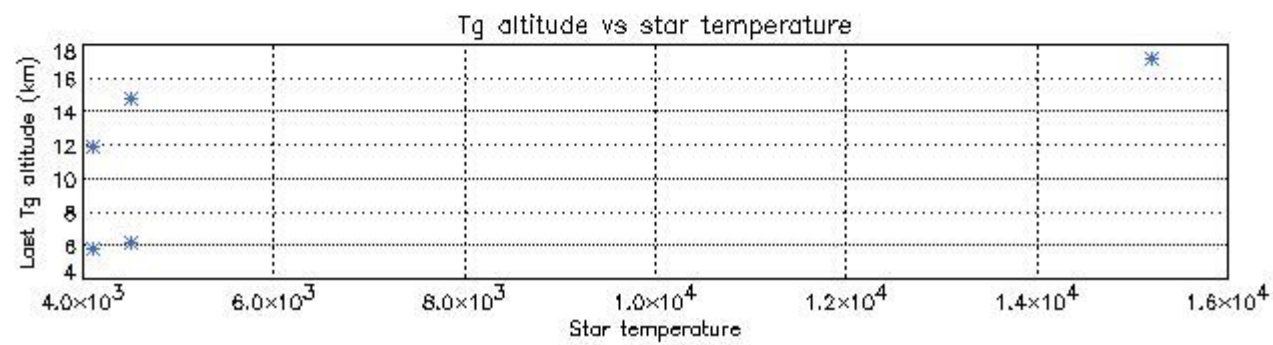
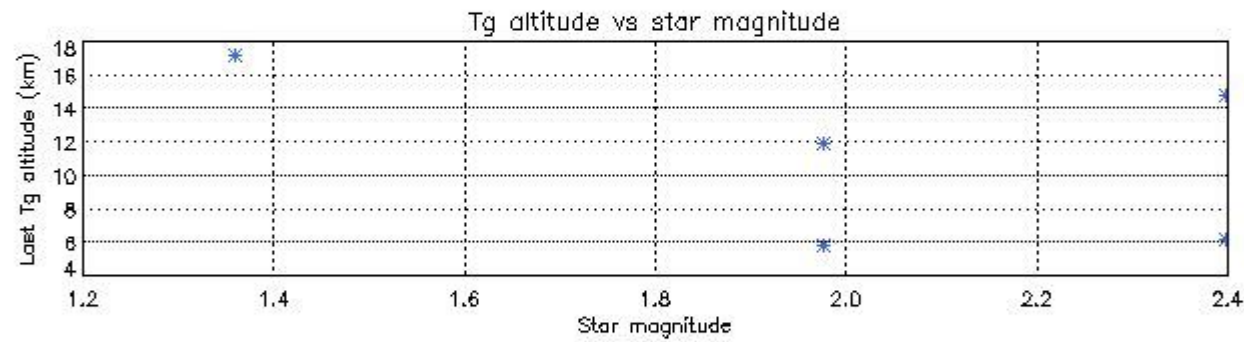
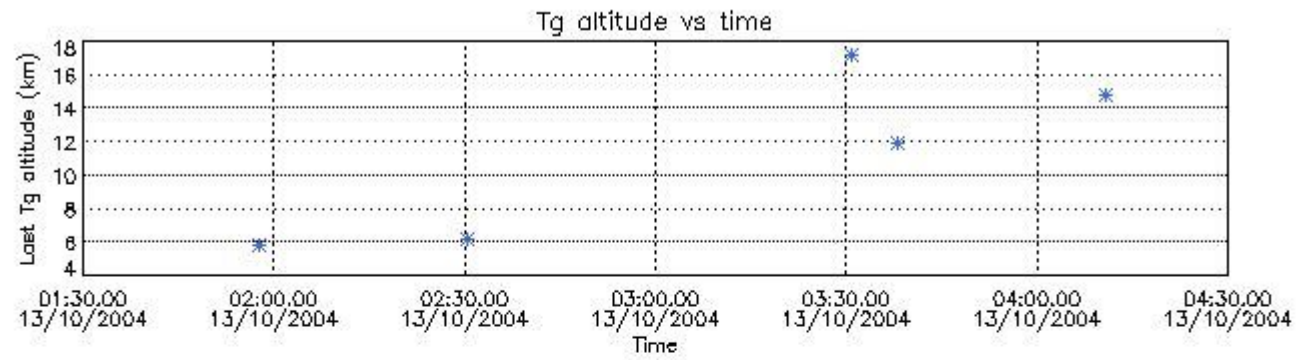
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



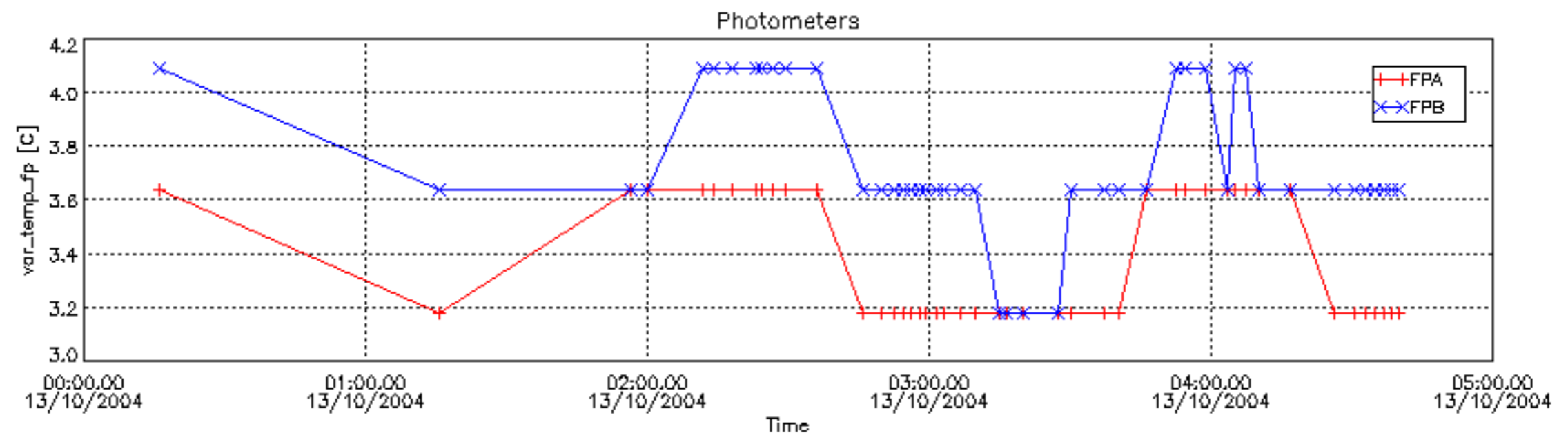
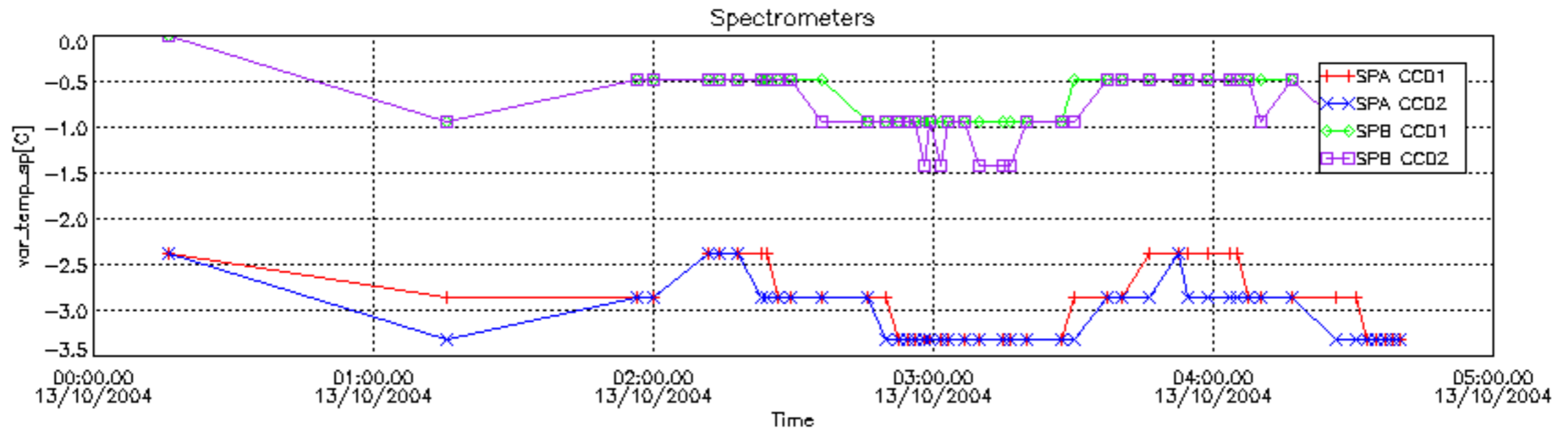
Tangent altitude at which the star is lost

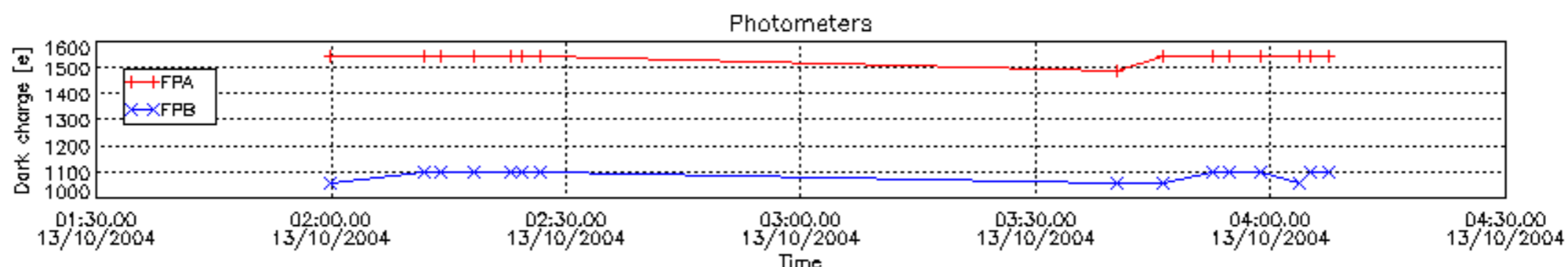
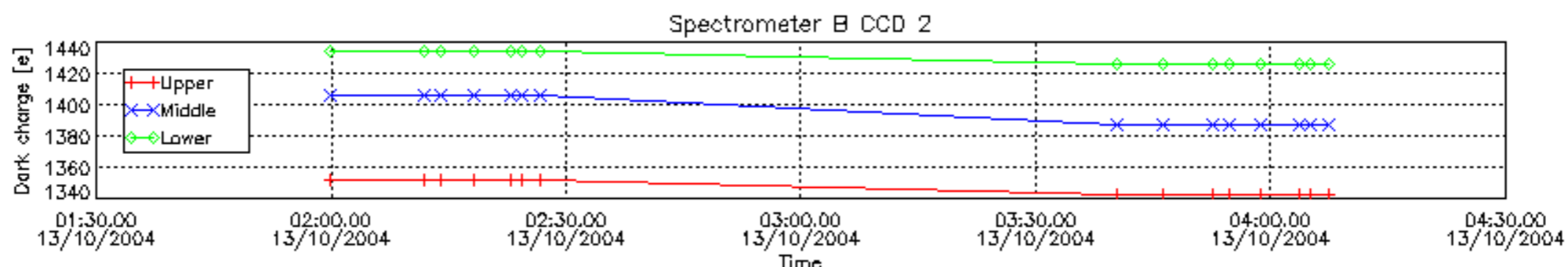
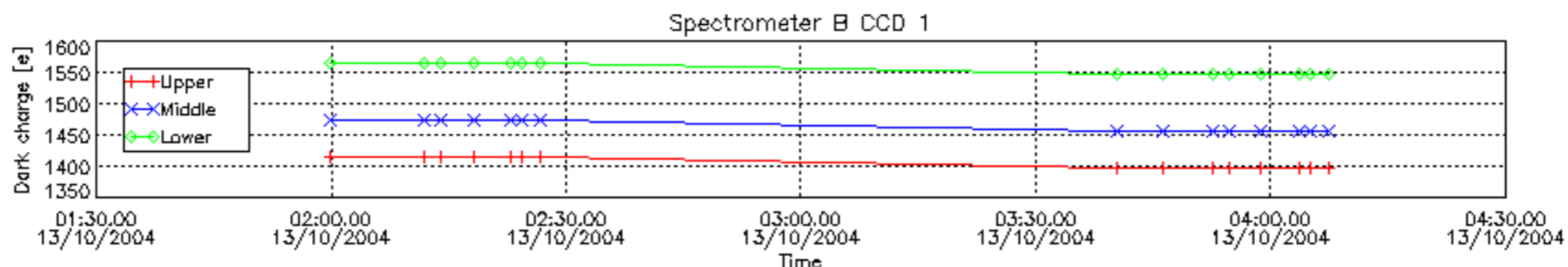
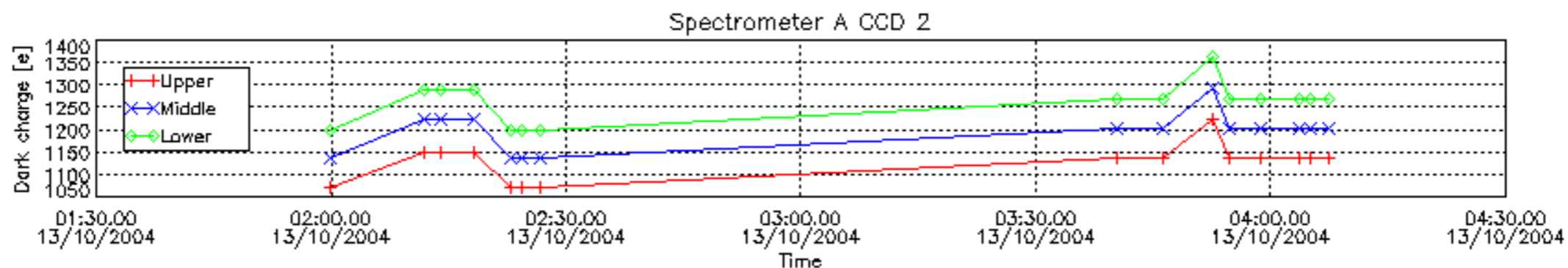
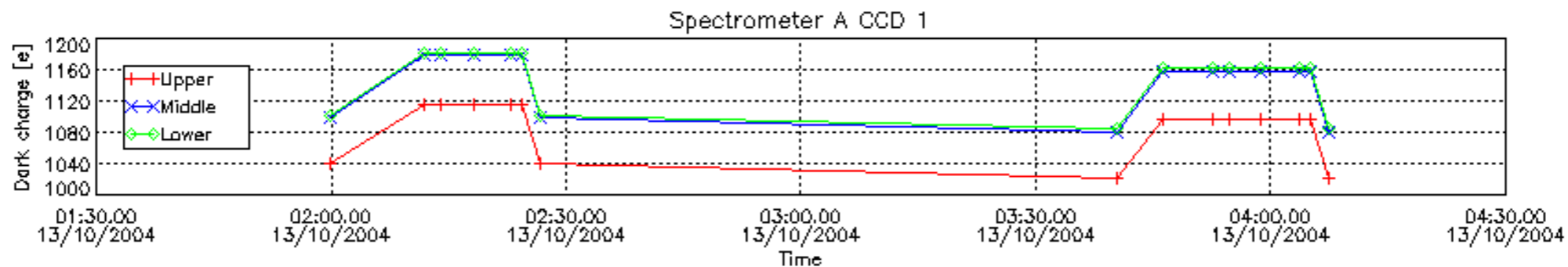


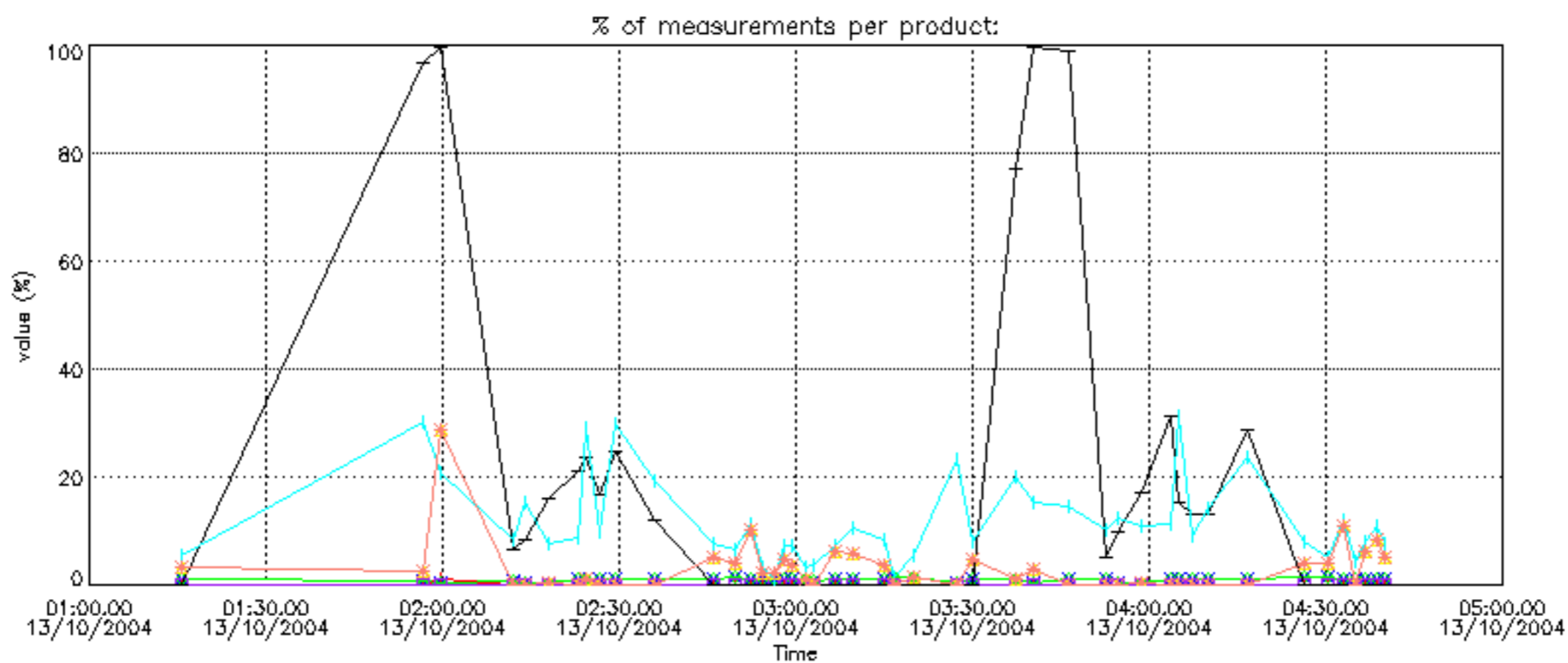
### 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1462.9	1448.7	1462.1	1447.5
St. deviation:	4.8262	5.8082	7.2419	8.0726
Maximum:	1499.0	1486.0	1521.0	1507.0
Minimum:	1436.0	1413.0	1437.0	1420.0
Number of data:	30200.	30200.	30450.	30450.

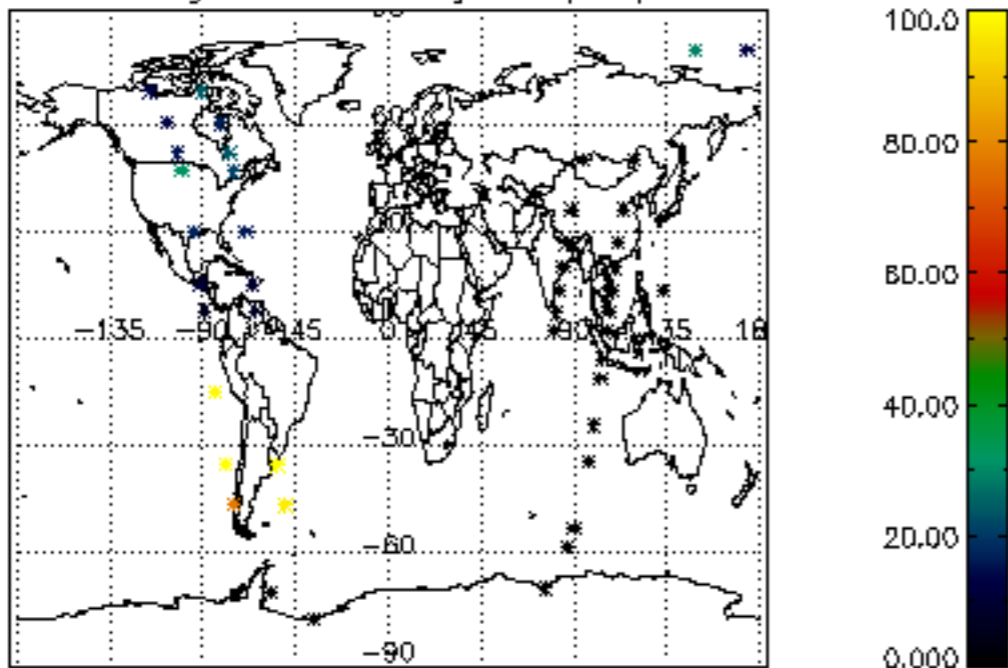




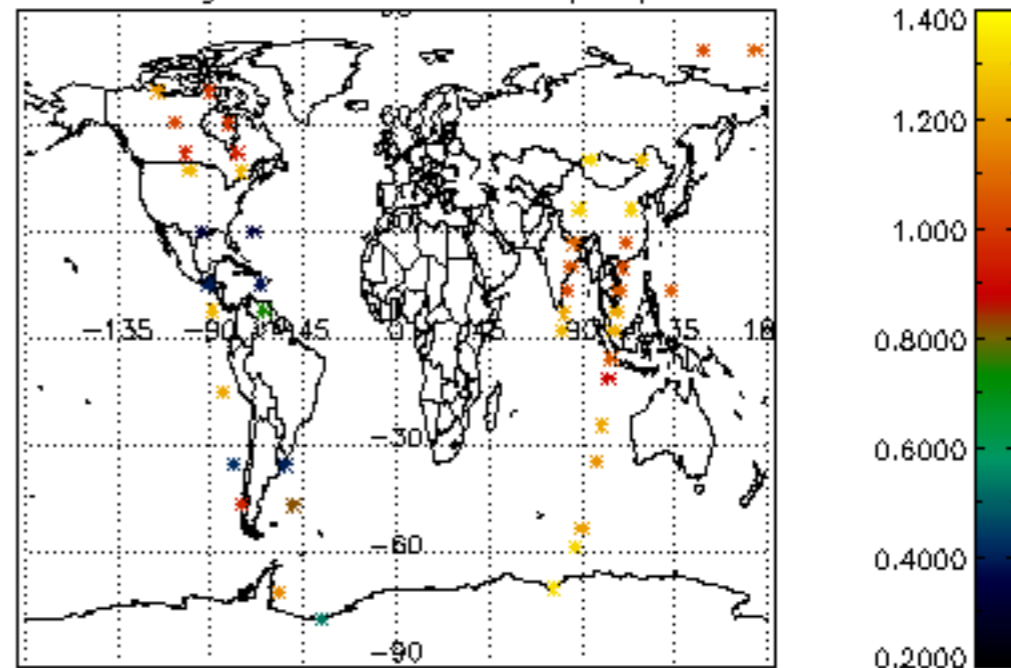




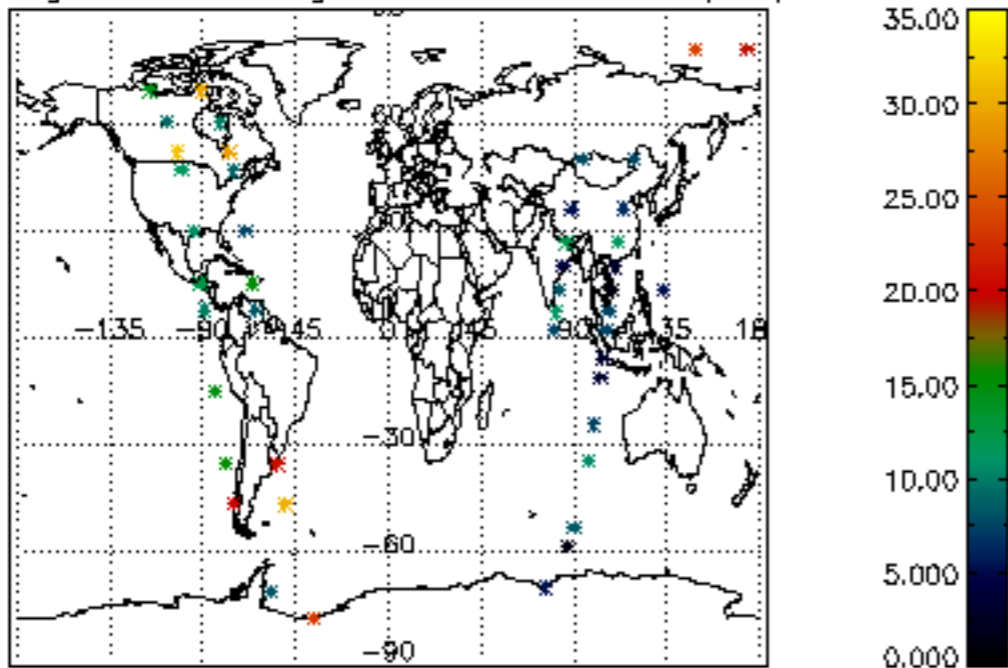
Percentage of cosmic ray hits per profile



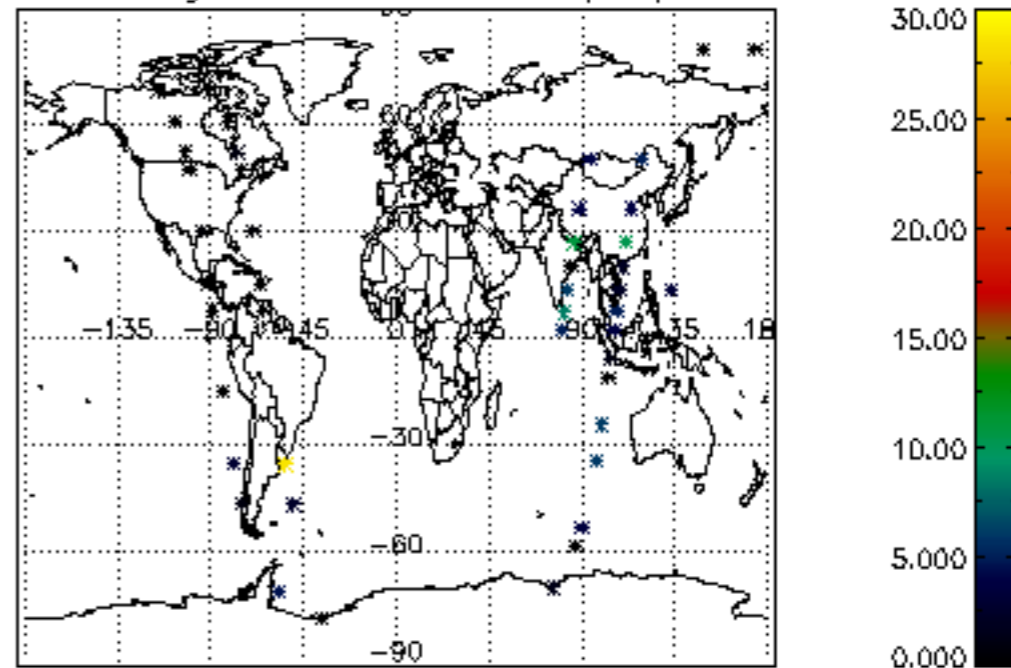
Percentage of datation errors per profile



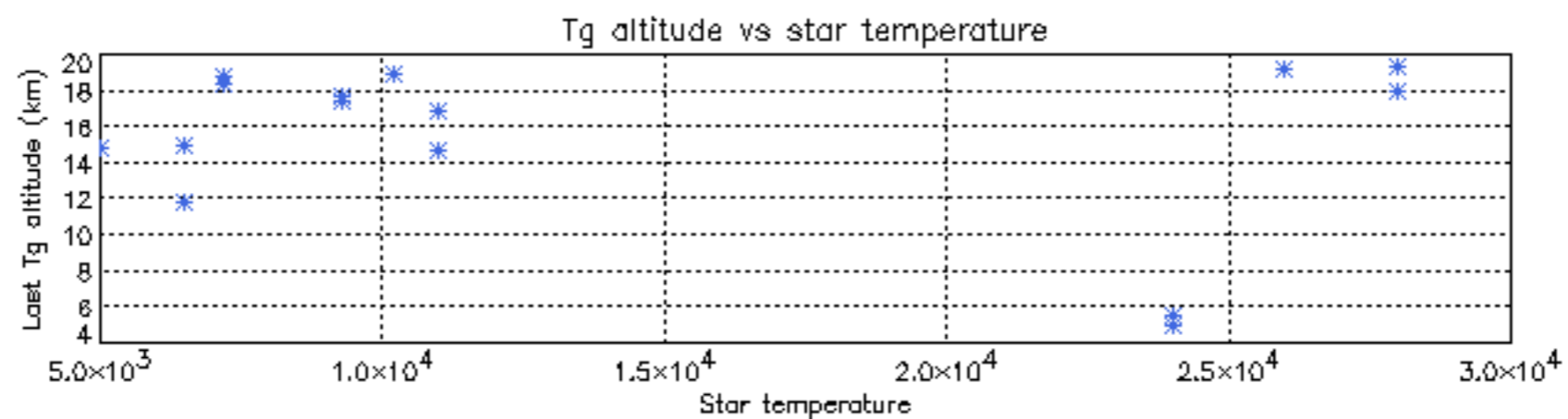
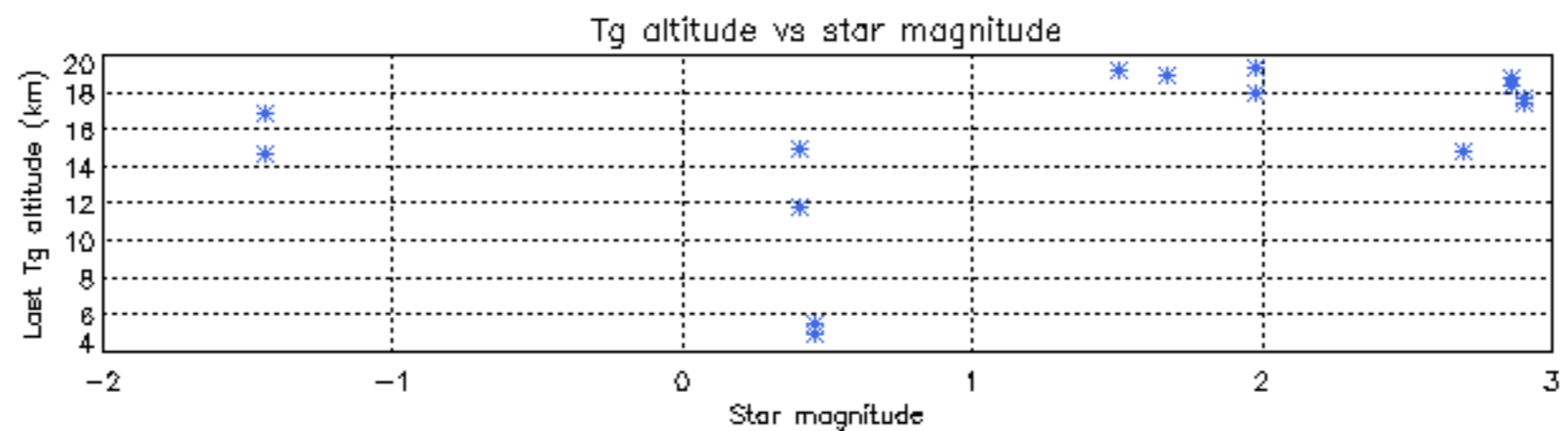
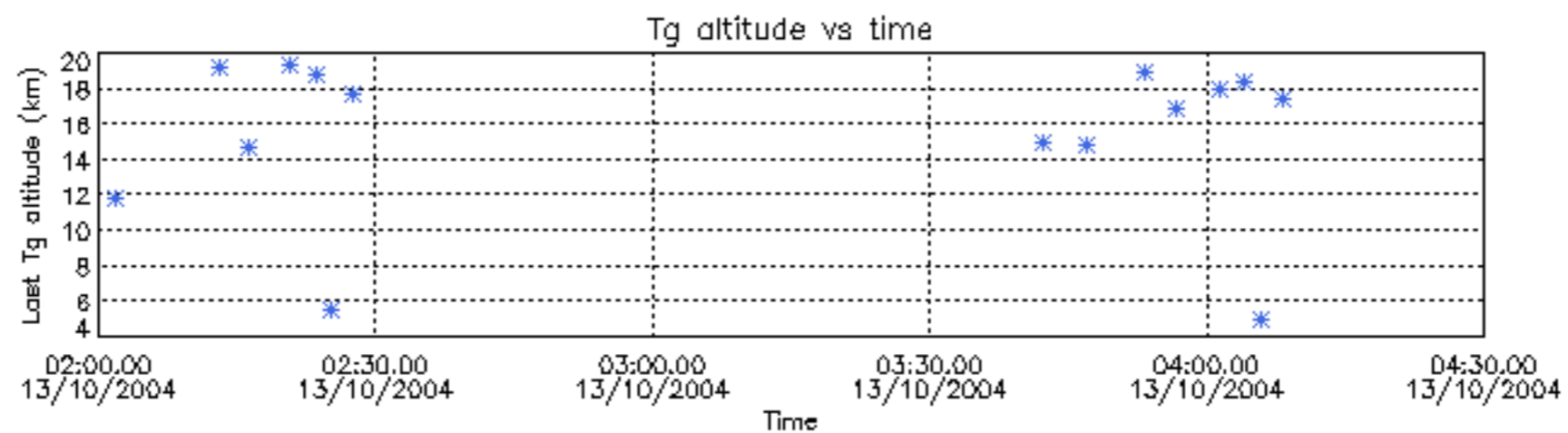
Percentage of star falling outside central band per profile



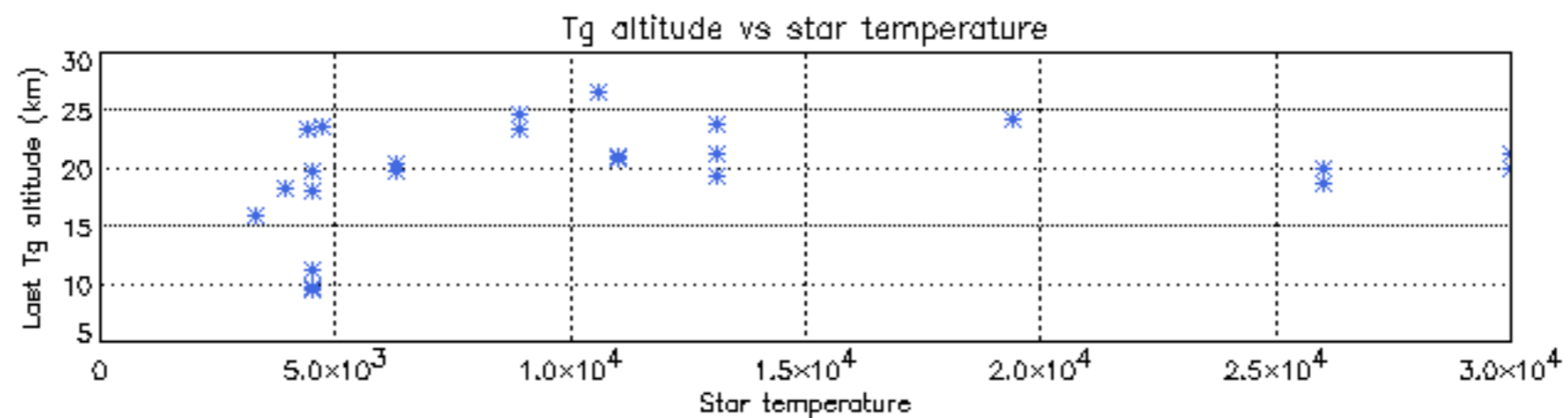
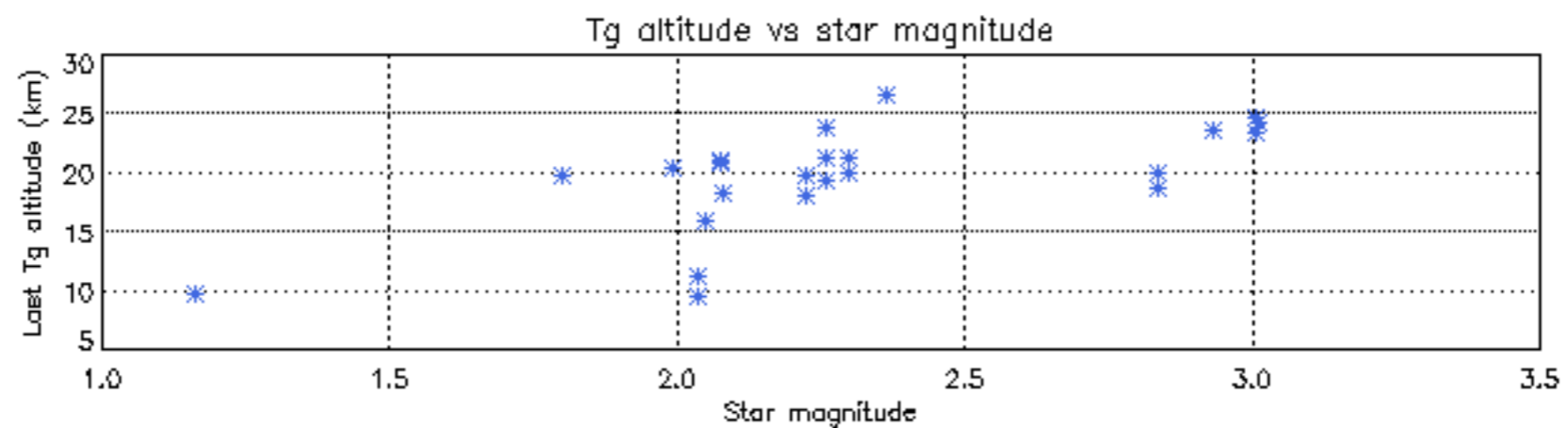
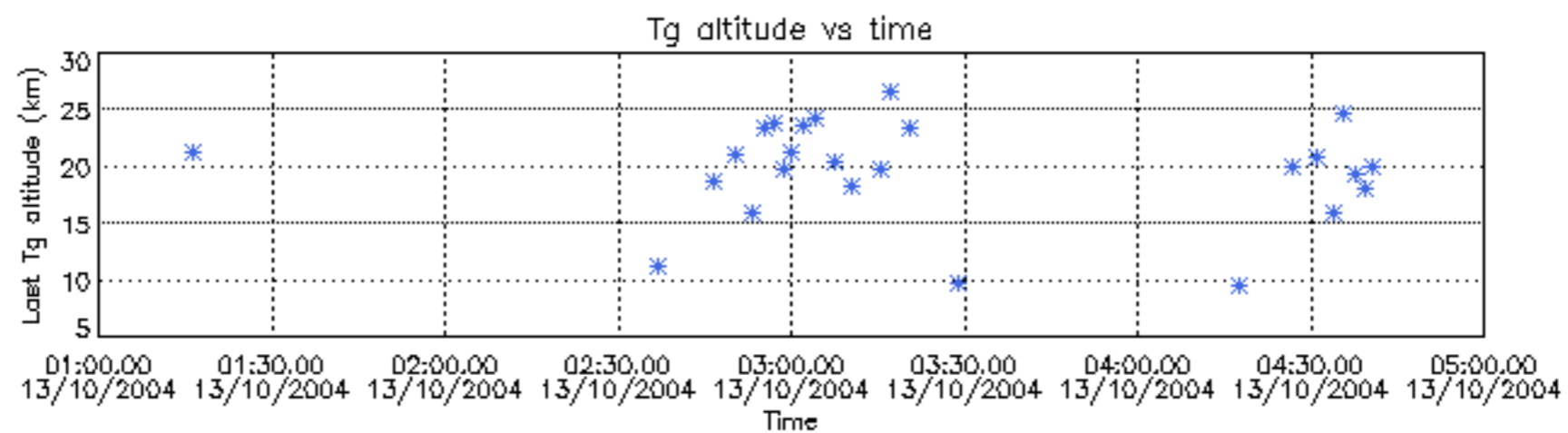
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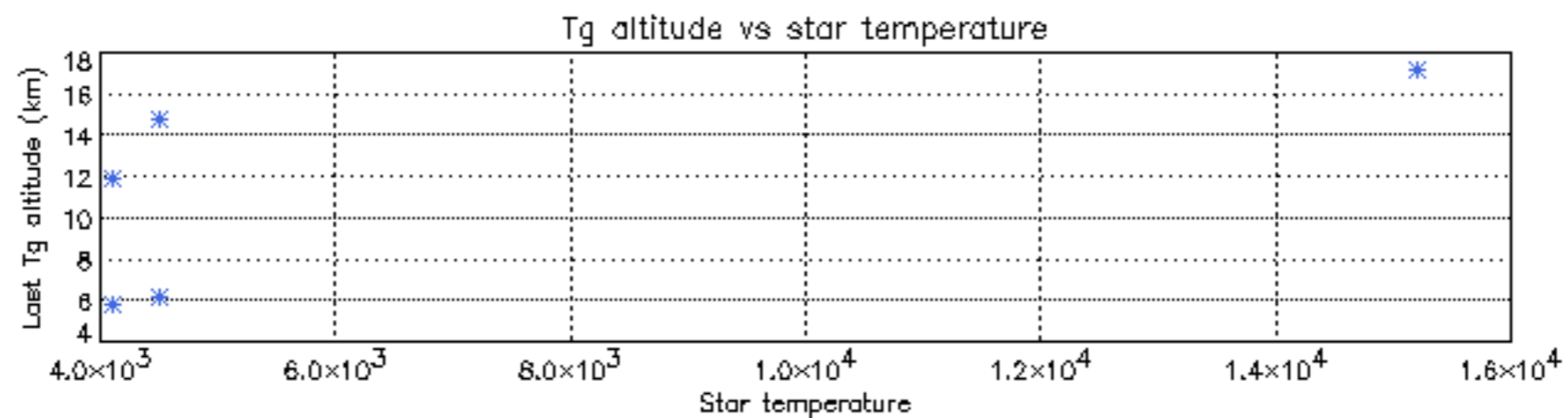
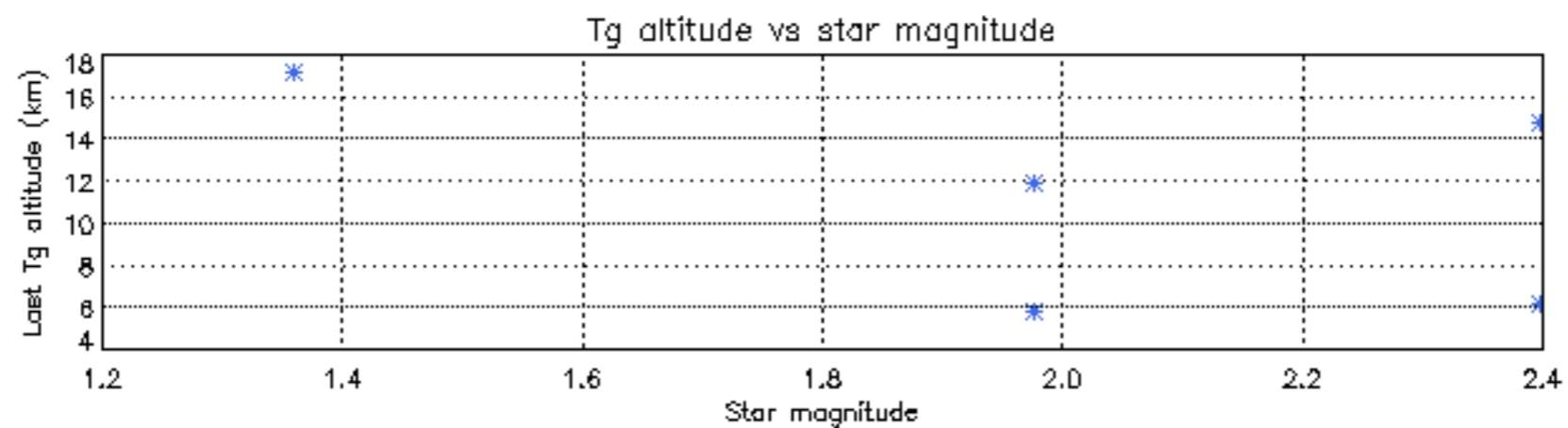
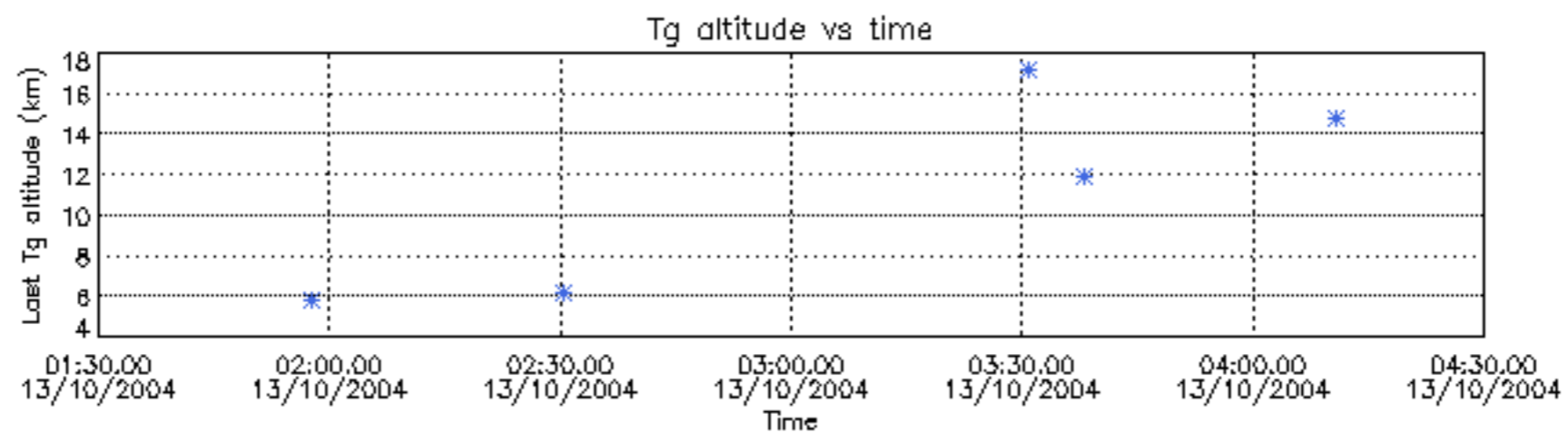
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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17; 938.8; 03-OCT-2004 07:41:33; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13559
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4;	-180.9;	05-OCT-2004	01:17:52;	Dark	;	48.0;	70;	Zet Pup	;	2.25;	39000;occ;	96;	0;	13583
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7;	398.3;	05-OCT-2004	01:27:31;	Dark	;	65.5;	108;	Alp Col	;	2.65;	15200;occ;	131;	0;	13584
8;	609.3;	05-OCT-2004	01:31:02;	Dark	;	41.0;	135;	Bet Hyi	;	2.82;	5800;occ;	82;	0;	13584
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13;	1429.9;	05-OCT-2004	01:44:43;	Dark	;	45.0;	18;	24Alp PsA	;	1.17;	9700;occ;	90;	0;	13584
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16;	2170.0;	05-OCT-2004	01:57:03;	Bright;	39.5;	90;	54Alp Peg	;	2.49;	11000;occ;	79;	0;	13584	
17;	2383.9;	05-OCT-2004	02:00:36;	Bright;	41.5;	93;	53Bet Peg	;	2.52;	3100;occ;	83;	0;	13584	
18;	2618.7;	05-OCT-2004	02:04:31;	Bright;	49.0;	53;	43Bet And	;	2.05;	3300;occ;	98;	0;	13584	
19;	2786.6;	05-OCT-2004	02:07:19;	Bright;	55.0;	173;	4Bet Tri	;	3.00;	8900;occ;	110;	0;	13584	
20;	3209.3;	05-OCT-2004	02:14:22;	Bright;	52.0;	160;	23Gam Per	;	2.93;	4700;occ;	104;	0;	13584	
21;	3425.5;	05-OCT-2004	02:17:58;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	13584	

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2;	-2034.6;	05-OCT-2004	07:29:22;	Bright;	35.5;	82;	48Bet UMA	;	2.37;	10600;occ;	71;	0;	13587	
3;	-1839.3;	05-OCT-2004	07:32:37;	Bright;	52.0;	174;	52Psi UMA	;	3.00;	4400;occ;	104;	0;	13587	
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7;	-796.3;	05-OCT-2004	07:50:00;	Dark	;	84.5;	8;	10Alp CMI	;	0.40;	6500;occ;	169;	0;	13587
8;	-393.0;	05-OCT-2004	07:56:44;	Dark	;	51.5;	132;	15Rho Pup	;	2.80;	6900;occ;	103;	0;	13587
9;	-268.0;	05-OCT-2004	07:58:49;	Dark	;	46.0;	65;	Lam Vel	;	2.20;	4400;occ;	92;	0;	13587
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12;	220.3;	05-OCT-2004	08:06:57;	Dark	;	47.5;	2;	Alp Car	;	-0.74;	7000;occ;	95;	0;	13588
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16;	842.7;	05-OCT-2004	08:17:19;	Dark	;	46.5;	9;	Alp Eri	;	0.45;	24000;occ;	93;	0;	13588
17;	958.9;	05-OCT-2004	08:19:15;	Dark	;	52.0;	157;	The1Eri	;	2.91;	9300;occ;	104;	0;	13588
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19;	1430.3;	05-OCT-2004	08:27:07;	Dark	;	44.5;	18;	24Alp PsA	;	1.17;	9700;occ;	89;	0;	13588
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3;	-3864.0;	05-OCT-2004	08:39:28;	Bright;	36.5;	90;	54Alp Peg	;	2.49;	11000;occ;	73;	0;	13588	
4;	-3648.7;	05-OCT-2004	08:43:04;	Bright;	36.5;	93;	53Bet Peg	;	2.52;	3100;occ;	73;	0;	13588	
5;	-3419.1;	05-OCT-2004	08:46:53;	Bright;	48.5;	53;	43Bet And	;	2.05;	3300;occ;	97;	0;	13588	
6;	-3254.1;	05-OCT-2004	08:49:38;	Bright;	55.5;	173;	4Bet Tri	;	3.00;	8900;occ;	111;	0;	13588	
7;	-3114.5;	05-OCT-2004	08:51:58;	Bright;	40.5;	68;	18Alp Cas	;	2.22;	4500;occ;	81;	0;	13588	
8;	-3023.2;	05-OCT-2004	08:53:29;	Bright;	38.0;	89;	5Alp Cep	;	2.45;	8000;occ;	76;	0;	13588	
9;	-2830.8;	05-OCT-2004	08:56:42;	Bright;	49.5;	160;	23Gam Per	;	2.93;	4700;occ;	99;	0;	13588	
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11;	-2468.3;	05-OCT-2004	09:02:44;	Bright;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	13588	
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14;	-1838.8;	05-OCT-2004	09:13:14;	Bright;	36.5;	174;	52Psi UMA	;	3.00;	4400;occ;	73;	0;	13588	
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6; 2428.7; 20-OCT-2004 20:56:44; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;13810
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4;	209.3;	20-OCT-2004	22:00:20;	Dark	;	65.5;	117;	Pi Pup	;	2.71;	3800;occ;	131;	0;	13811
5;	398.7;	20-OCT-2004	22:03:30;	Dark	;	50.5;	2;	Alp Car	;	-0.74;	7000;occ;	101;	0;	13811
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13;	2531.0;	20-OCT-2004	22:39:02;	Bright;	;	40.5;	53;	43Bet And	;	2.05;	3300;occ;	81;	0;	13811
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