

# GOMOS Daily Report 30-SEP-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	02OCT2004 05:01:35
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (30SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (01OCT2004 00:00:00)

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

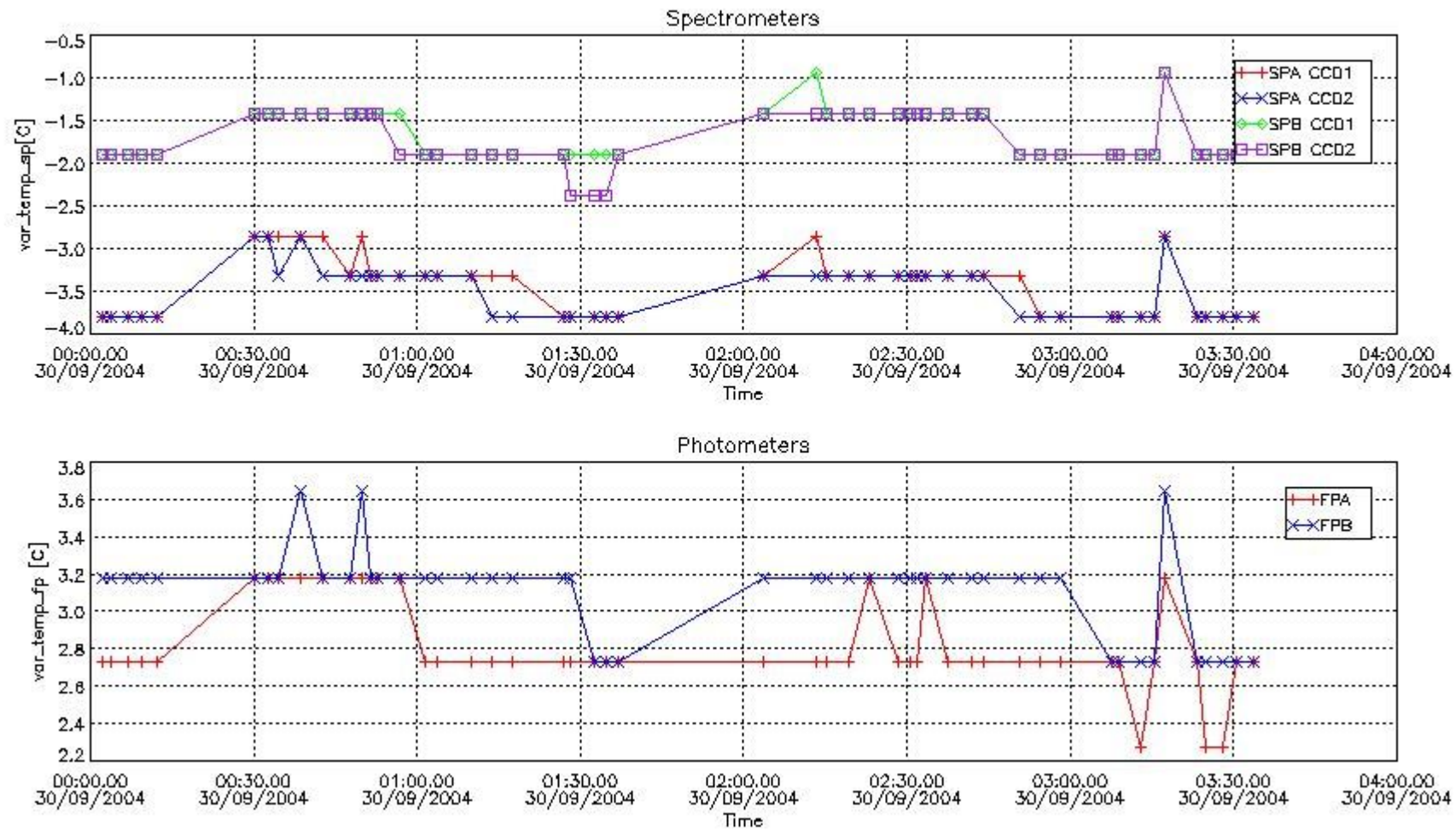
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040930_000211_000000362030_00431_13511_0019.N1	30-SEP-2004 00:02:11	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	13511	No
GOM_TRA_1PNPDE20040930_000341_000000492030_00431_13511_0020.N1	30-SEP-2004 00:03:41	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	13511	No
GOM_TRA_1PNPDE20040930_000653_000000372030_00431_13511_0021.N1	30-SEP-2004 00:06:53	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	13511	No
GOM_TRA_1PNPDE20040930_000926_000000932030_00431_13511_0022.N1	30-SEP-2004 00:09:26	Bright	93.000	107	37The Aur	2.6490	11000.	186	13511	No
GOM_TRA_1PNPDE20040930_001219_000000602030_00431_13511_0023.N1	30-SEP-2004 00:12:19	Bright	60.000	24	66Alp Gem	1.5800	10200.	120	13511	No
GOM_TRA_1PNPDE20040930_003002_000000522030_00431_13511_0000.N1	30-SEP-2004 00:30:02	Dark	51.500	132	15Rho Pup	2.8030	6900.0	103	13511	No
GOM_TRA_1PNPDE20040930_003242_000000482030_00431_13511_0001.N1	30-SEP-2004 00:32:42	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	13511	No
GOM_TRA_1PNPDE20040930_003428_000000912030_00431_13511_0002.N1	30-SEP-2004 00:34:28	Dark	91.000	1	9Alp CMa	-1.4400	11000.	182	13511	No
GOM_TRA_1PNPDE20040930_003843_000000592030_00432_13512_0003.N1	30-SEP-2004 00:38:43	Dark	59.000	177	1Zet CMa	3.0220	26000.	118	13512	No
GOM_TRA_1PNPDE20040930_004233_000000642030_00432_13512_0004.N1	30-SEP-2004 00:42:33	Dark	64.000	108	Alp Col	2.6520	15200.	128	13512	No
GOM_TRA_1PNPDE20040930_004746_000000382030_00432_13512_0005.N1	30-SEP-2004 00:47:46	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	13512	No
GOM_TRA_1PNPDE20040930_004950_000000422030_00432_13512_0006.N1	30-SEP-2004 00:49:50	Dark	42.000	143	Alp Hyi	2.8570	7200.0	84	13512	No
GOM_TRA_1PNPDE20040930_005118_000000462030_00432_13512_0007.N1	30-SEP-2004 00:51:18	Dark	45.500	9	Alp Eri	0.45300	24000.	91	13512	No
GOM_TRA_1PNPDE20040930_005250_000000532030_00432_13512_0008.N1	30-SEP-2004 00:52:50	Dark	53.000	157	The1Eri	2.9060	9300.0	106	13512	No
GOM_TRA_1PNPDE20040930_005644_000000442030_00432_13512_0009.N1	30-SEP-2004 00:56:44	Twilight	43.500	63	Bet Gru	2.1500	2800.0	87	13512	No
GOM_TRA_1PNPDE20040930_010122_000000452030_00432_13512_0010.N1	30-SEP-2004 01:01:22	Bright	45.000	18	24Alp PsA	1.1660	9700.0	90	13512	No
GOM_TRA_1PNPDE20040930_010338_000000522030_00432_13512_0011.N1	30-SEP-2004 01:03:38	Bright	52.000	52	16Bet Cet	2.0370	4500.0	104	13512	No
GOM_TRA_1PNPDE20040930_011005_000000402030_00432_13512_0012.N1	30-SEP-2004 01:10:05	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13512	No
GOM_TRA_1PNPDE20040930_011349_000000402030_00432_13512_0013.N1	30-SEP-2004 01:13:49	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	13512	No
GOM_TRA_1PNPDE20040930_011728_000000382030_00432_13512_0014.N1	30-SEP-2004 01:17:28	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	13512	No
GOM_TRA_1PNPDE20040930_012655_000000412030_00432_13512_0015.N1	30-SEP-2004 01:26:55	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	13512	No
GOM_TRA_1PNPDE20040930_012818_000000422030_00432_13512_0016.N1	30-SEP-2004 01:28:18	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	13512	No
GOM_TRA_1PNPDE20040930_013224_000000492030_00432_13512_0017.N1	30-SEP-2004 01:32:24	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	13512	No
GOM_TRA_1PNPDE20040930_013450_000000382030_00432_13512_0018.N1	30-SEP-2004 01:34:50	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	13512	No
GOM_TRA_1PNPDE20040930_013652_000000382030_00432_13512_0019.N1	30-SEP-2004 01:36:52	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	13512	No
GOM_TRA_1PNPDE20040930_020337_000000712030_00432_13512_0000.N1	30-SEP-2004 02:03:37	Twilight	70.500	8	10Alp CMi	0.40000	6500.0	141	13512	No
GOM_TRA_1PNPDE20040930_021321_000000502030_00432_13512_0001.N1	30-SEP-2004 02:13:21	Dark	49.500	65	Lam Vel	2.2040	4400.0	99	13512	No
GOM_TRA_1PNPDE20040930_021505_000000962030_00432_13512_0002.N1	30-SEP-2004 02:15:05	Dark	95.500	1	9Alp CMa	-1.4400	11000.	191	13512	No
GOM_TRA_1PNPDE20040930_021920_000000602030_00433_13513_0003.N1	30-SEP-2004 02:19:20	Dark	59.500	177	1Zet CMa	3.0220	26000.	119	13513	No
GOM_TRA_1PNPDE20040930_022311_000000622030_00433_13513_0004.N1	30-SEP-2004 02:23:11	Dark	62.000	108	Alp Col	2.6520	15200.	124	13513	No
GOM_TRA_1PNPDE20040930_022821_000000402030_00433_13513_0005.N1	30-SEP-2004 02:28:21	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	13513	No
GOM_TRA_1PNPDE20040930_023027_000000432030_00433_13513_0006.N1	30-SEP-2004 02:30:27	Dark	43.000	143	Alp Hyi	2.8570	7200.0	86	13513	No
GOM_TRA_1PNPDE20040930_023154_000000472030_00433_13513_0007.N1	30-SEP-2004 02:31:54	Dark	47.000	9	Alp Eri	0.45300	24000.	94	13513	No
GOM_TRA_1PNPDE20040930_023327_000000522030_00433_13513_0008.N1	30-SEP-2004 02:33:27	Dark	52.000	157	The1Eri	2.9060	9300.0	104	13513	No
GOM_TRA_1PNPDE20040930_023720_000000492030_00433_13513_0009.N1	30-SEP-2004 02:37:20	Twilight	49.000	63	Bet Gru	2.1500	2800.0	98	13513	No
GOM_TRA_1PNPDE20040930_024158_000000432030_00433_13513_0010.N1	30-SEP-2004 02:41:58	Bright	42.500	18	24Alp PsA	1.1660	9700.0	85	13513	No
GOM_TRA_1PNPDE20040930_024412_000000522030_00433_13513_0011.N1	30-SEP-2004 02:44:12	Bright	51.500	52	16Bet Cet	2.0370	4500.0	103	13513	No
GOM_TRA_1PNPDE20040930_025041_000000392030_00433_13513_0012.N1	30-SEP-2004 02:50:41	Bright	38.500	162	34Alp Aqr	2.9440	5350.0	77	13513	No
GOM_TRA_1PNPDE20040930_025425_000000392030_00433_13513_0013.N1	30-SEP-2004 02:54:25	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	13513	No
GOM_TRA_1PNPDE20040930_025804_000000402030_00433_13513_0014.N1	30-SEP-2004 02:58:04	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13513	No
GOM_TRA_1PNPDE20040930_030731_000000422030_00433_13513_0015.N1	30-SEP-2004 03:07:31	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	13513	No
GOM_TRA_1PNPDE20040930_030854_000000422030_00433_13513_0016.N1	30-SEP-2004 03:08:54	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	13513	No
GOM_TRA_1PNPDE20040930_031258_000000532030_00433_13513_0017.N1	30-SEP-2004 03:12:58	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	13513	No
GOM_TRA_1PNPDE20040930_031526_000000372030_00433_13513_0018.N1	30-SEP-2004 03:15:26	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	13513	No
GOM_TRA_1PNPDE20040930_031728_000000382030_00433_13513_0000.N1	30-SEP-2004 03:17:28	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	13513	No
GOM_TRA_1PNPDE20040930_032323_000000382030_00433_13513_0001.N1	30-SEP-2004 03:23:23	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	13513	No
GOM_TRA_1PNPDE20040930_032453_000000522030_00433_13513_0002.N1	30-SEP-2004 03:24:53	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	13513	No
GOM_TRA_1PNPDE20040930_032805_000000362030_00433_13513_0003.N1	30-SEP-2004 03:28:05	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	13513	No
GOM_TRA_1PNPDE20040930_033037_000000872030_00433_13513_0004.N1	30-SEP-2004 03:30:37	Bright	86.500	107	37The Aur	2.6490	11000.	173	13513	No

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



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

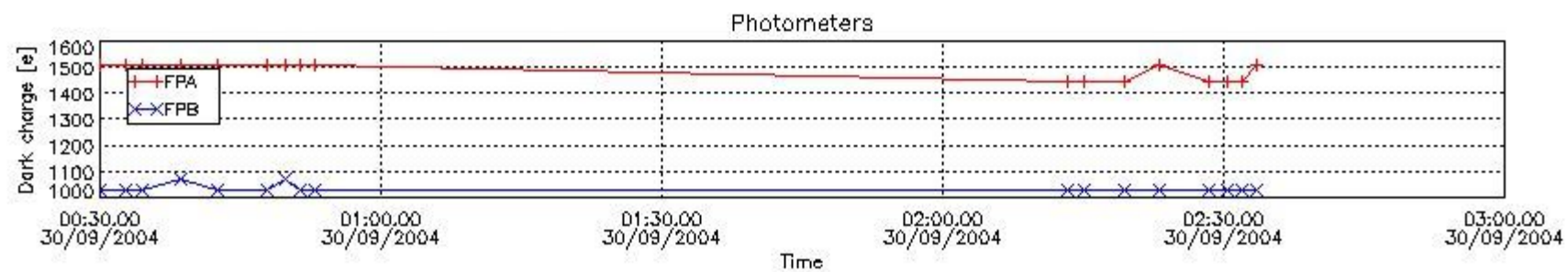
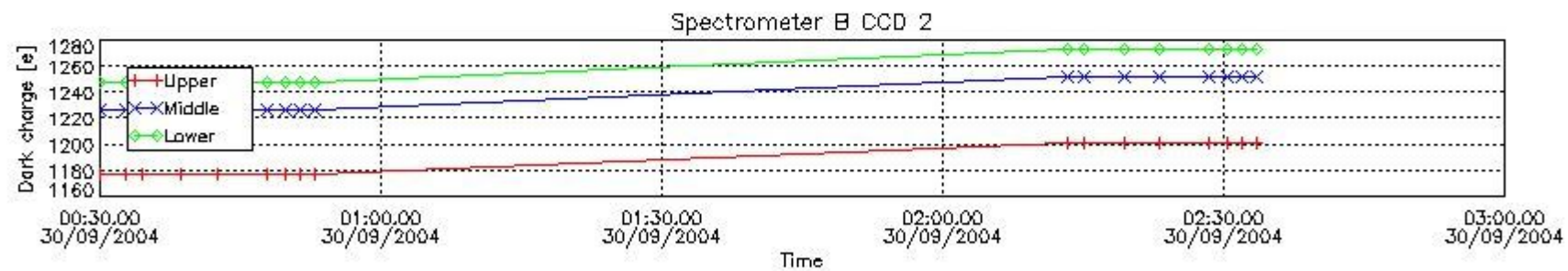
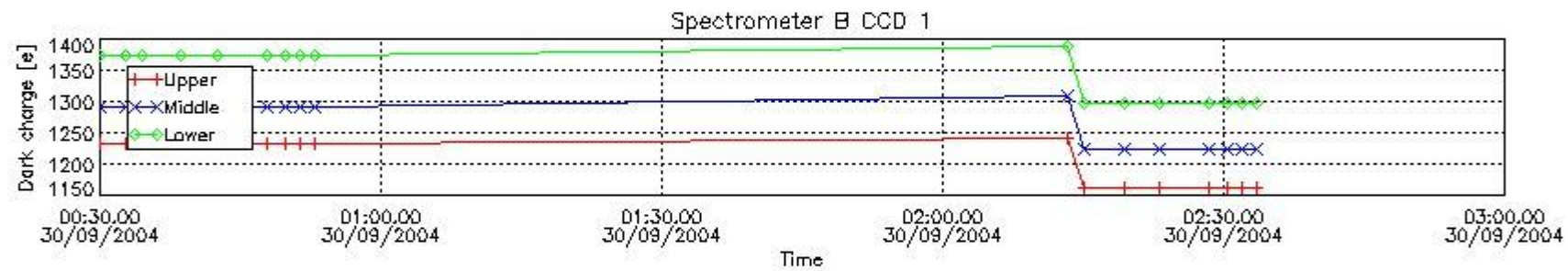
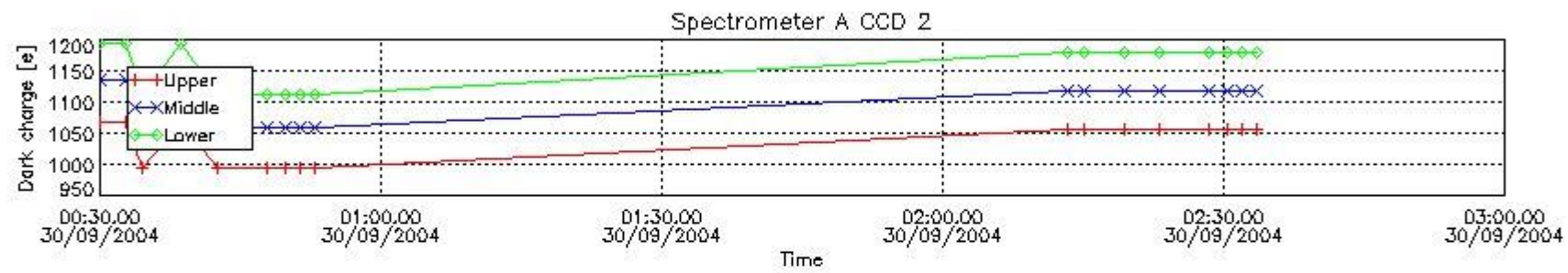
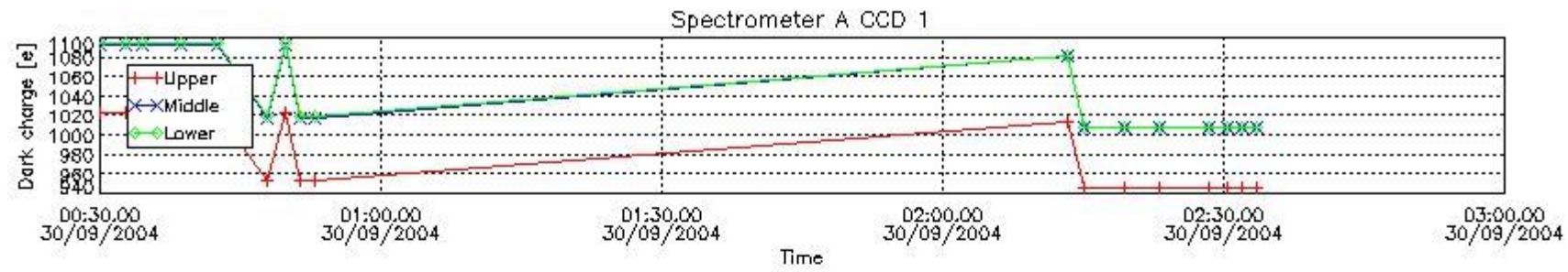
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





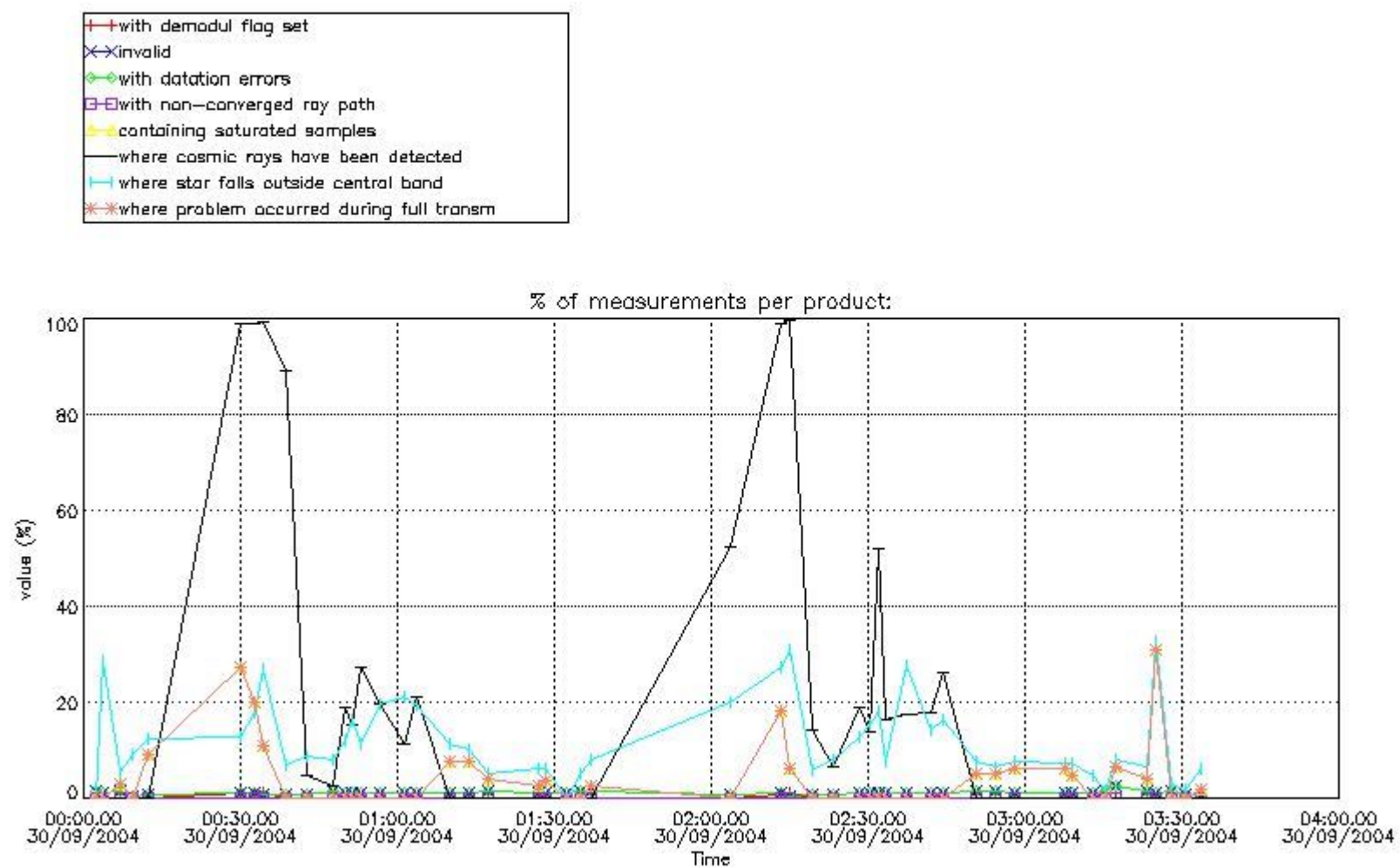
## 5. Demodulation flag and quality information monitoring

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:

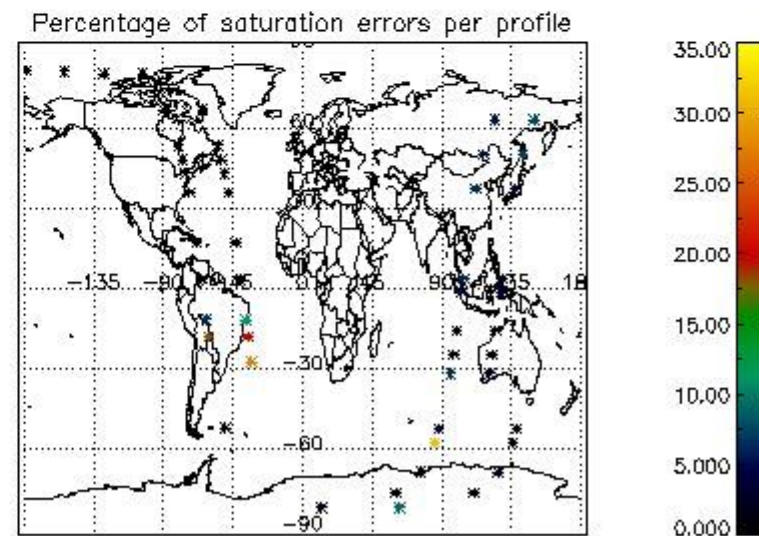
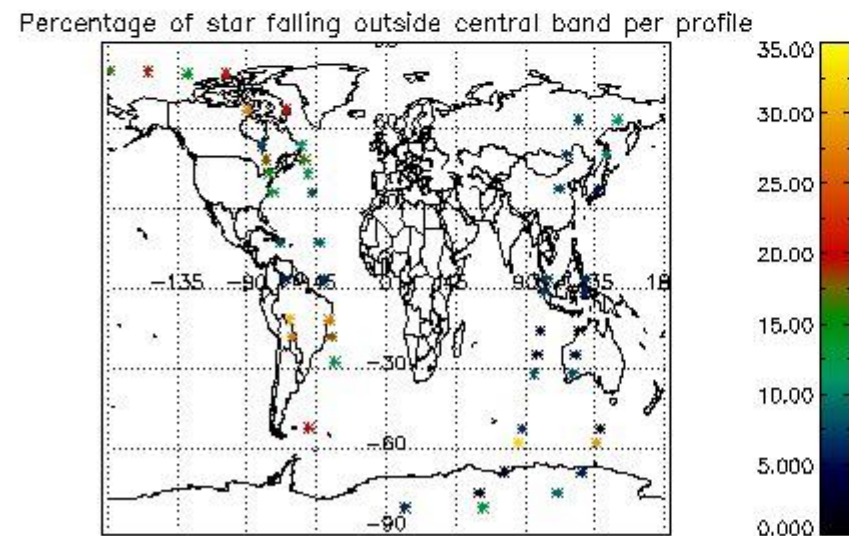
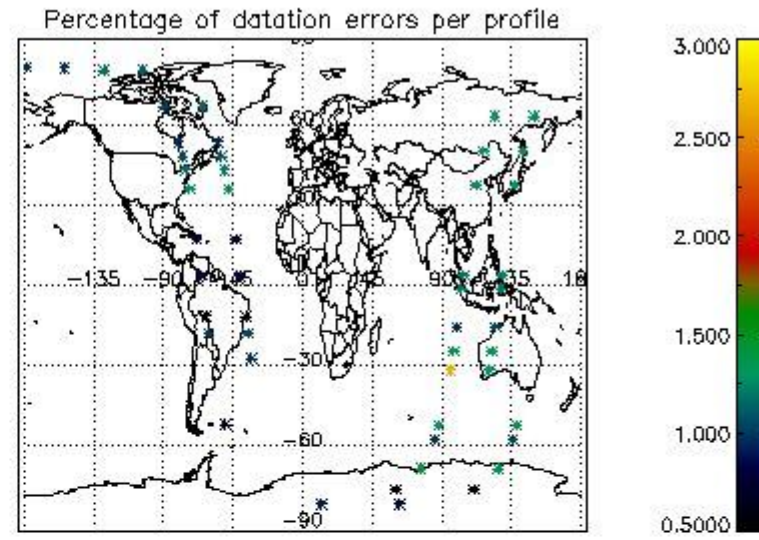
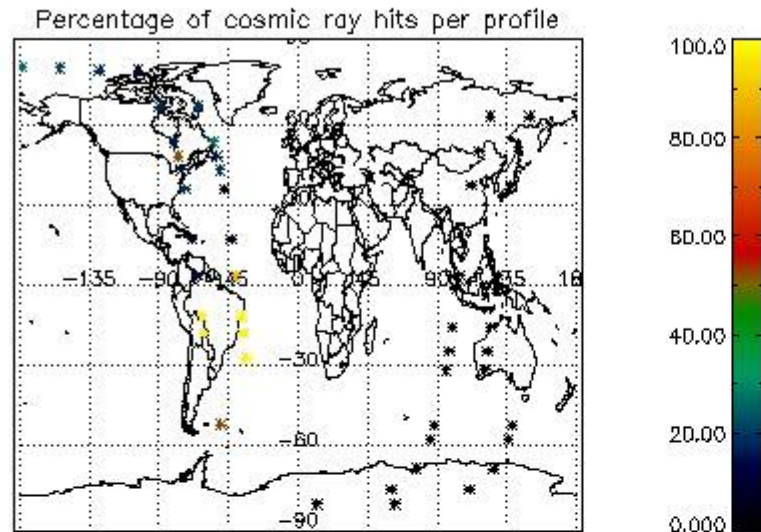
At least one measurement with demodulation flag set:	14.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





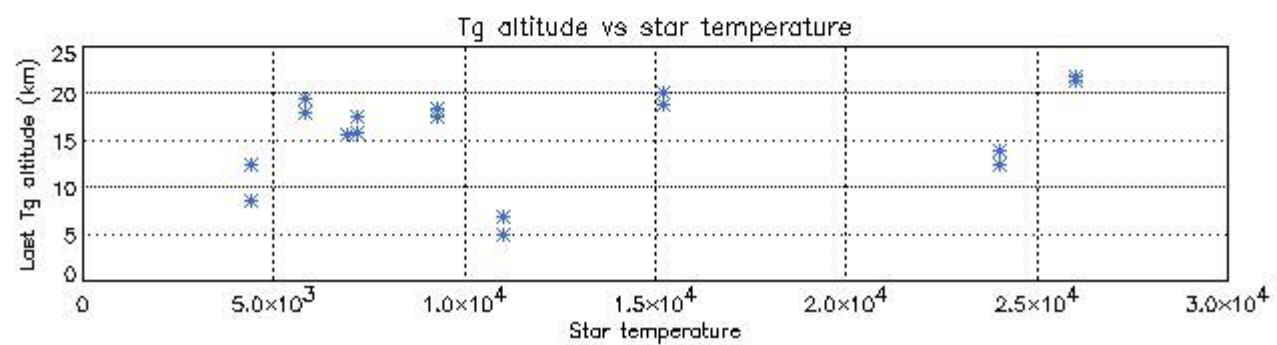
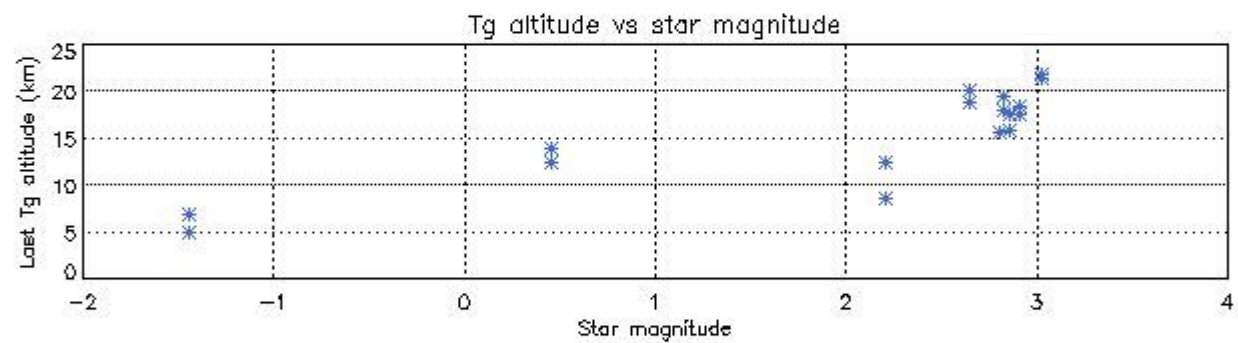
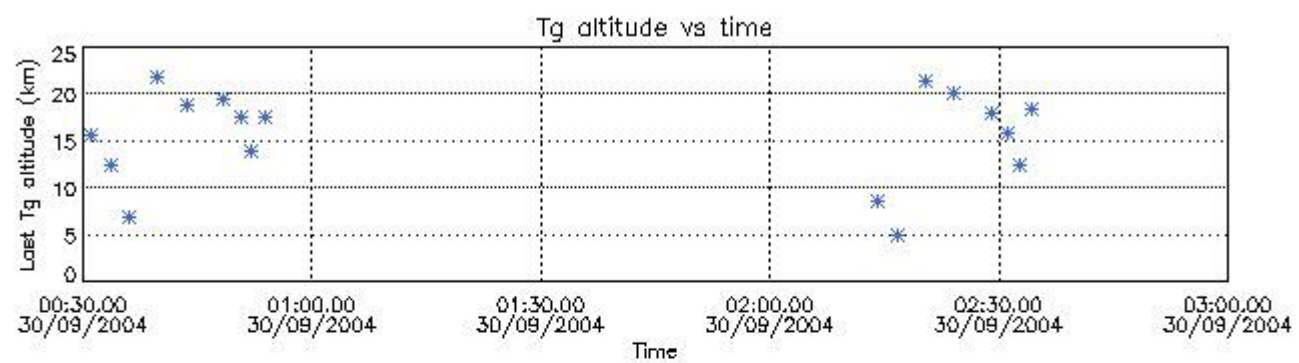
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.481	19.018	10.574
St. deviation:	5.0013	5.4914	2.5983
Maximum:	21.693	29.947	12.476
Minimum:	4.9002	4.9285	7.6135
Number of data:	17.000	30.000	3.0000

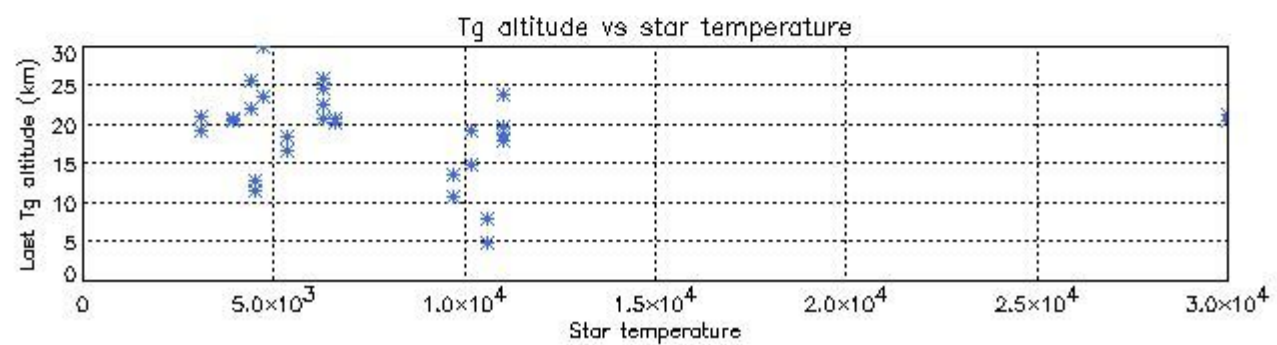
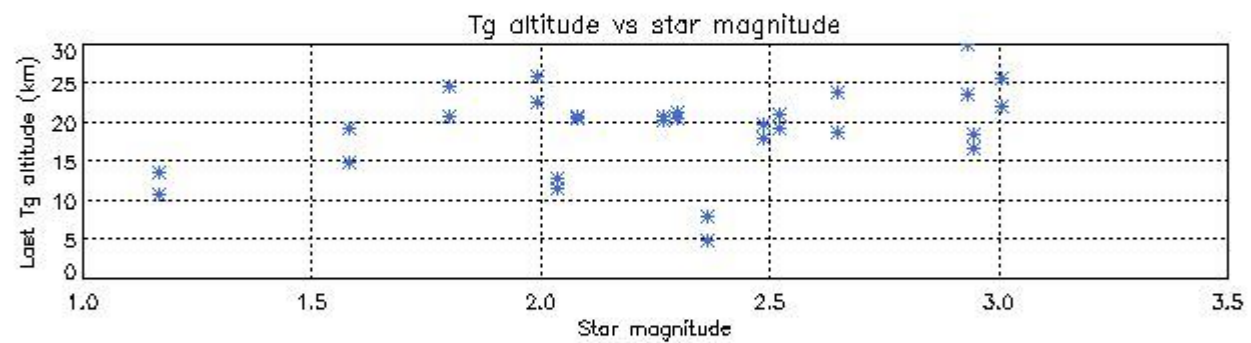
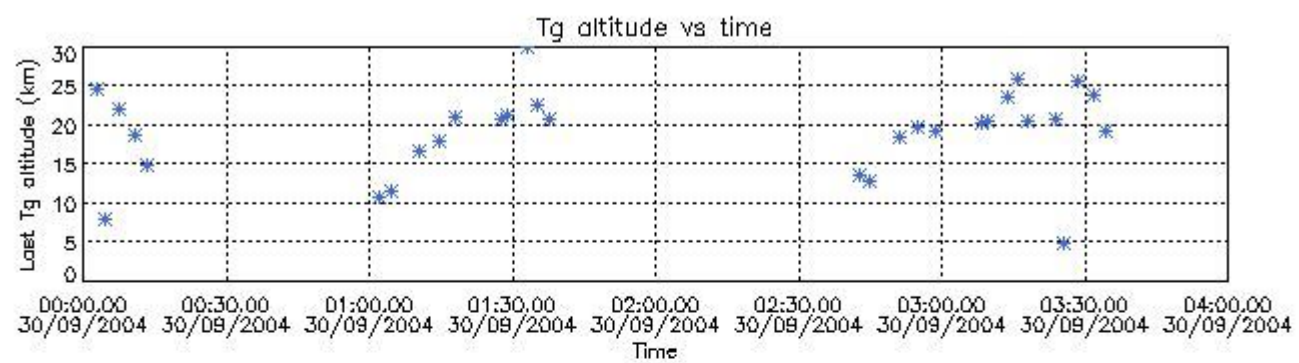
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

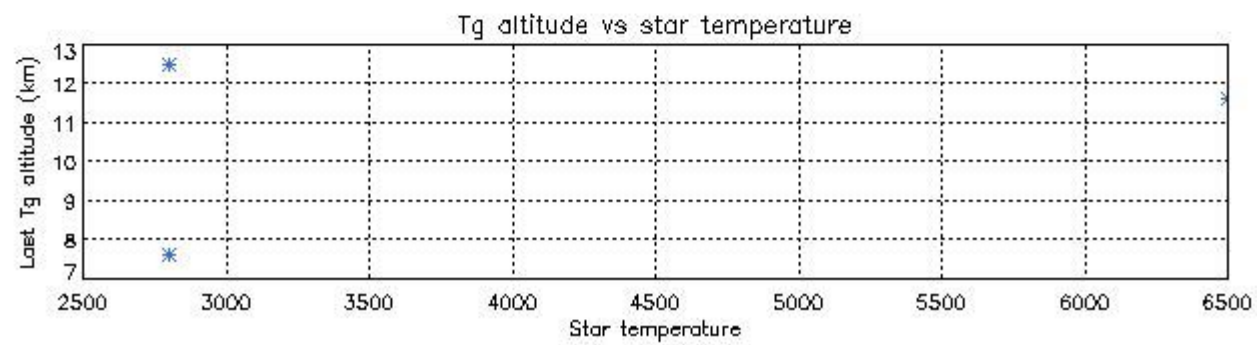
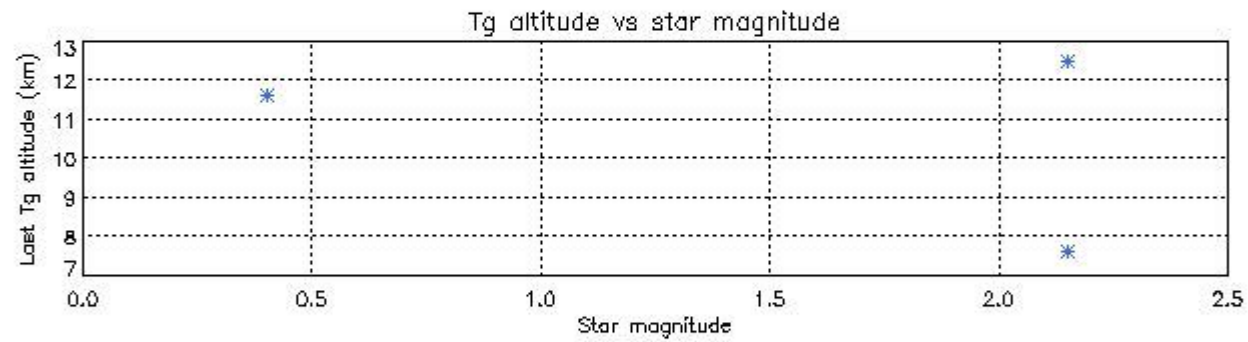
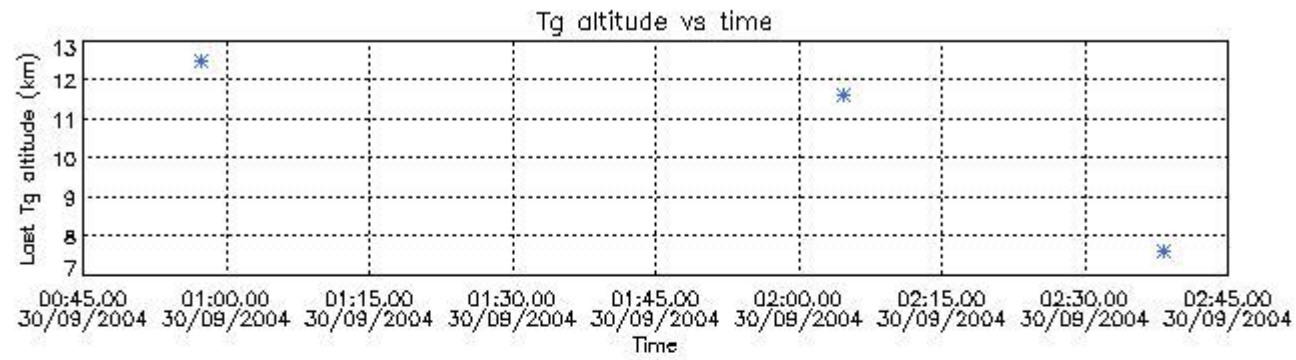
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



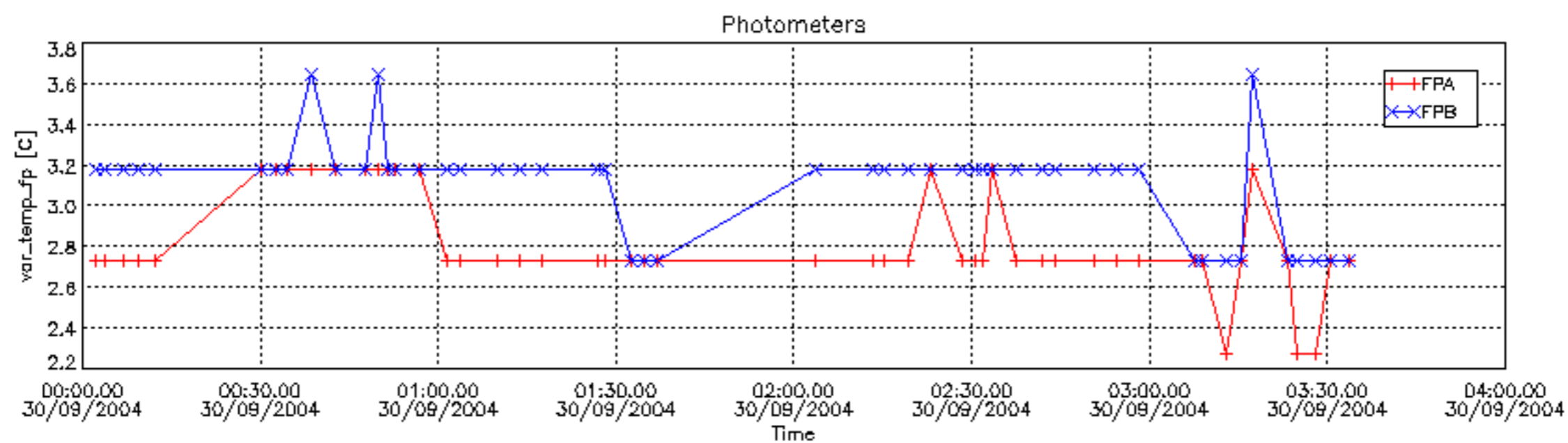
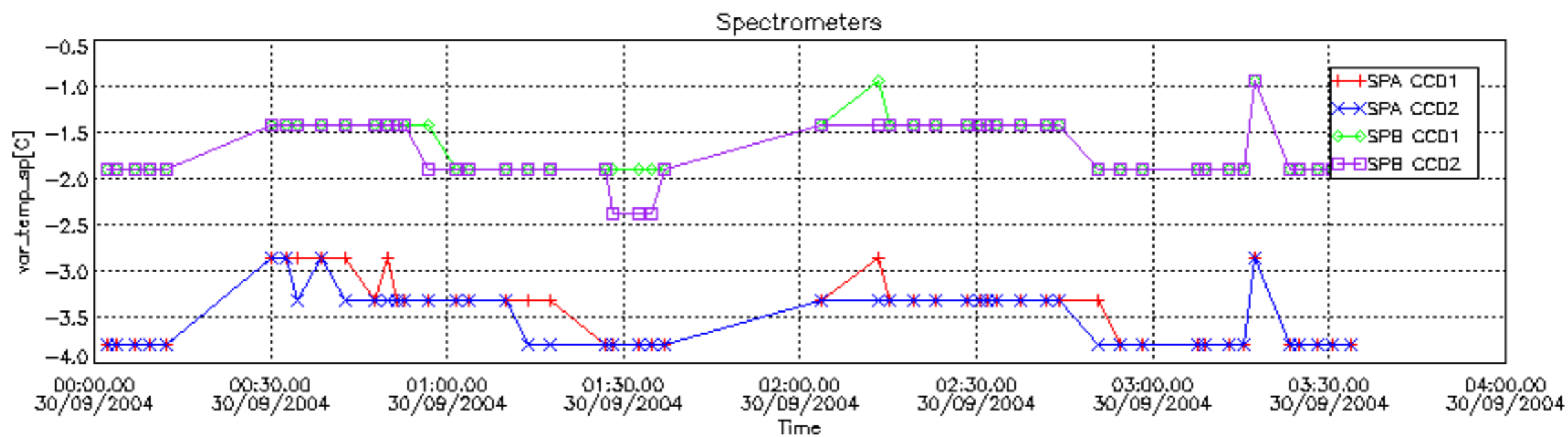
## Tangent altitude at which the star is lost

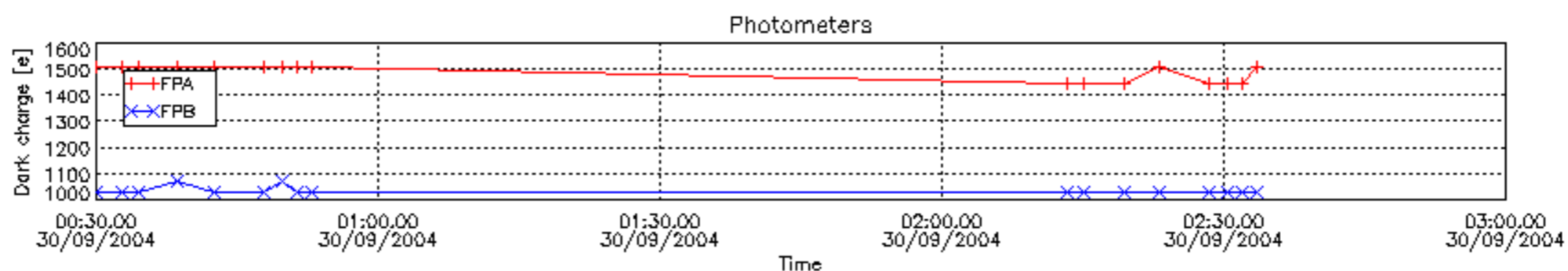
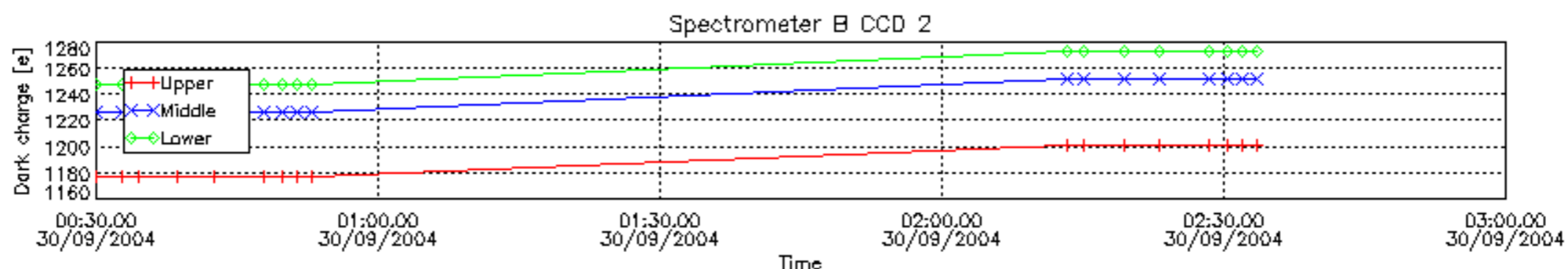
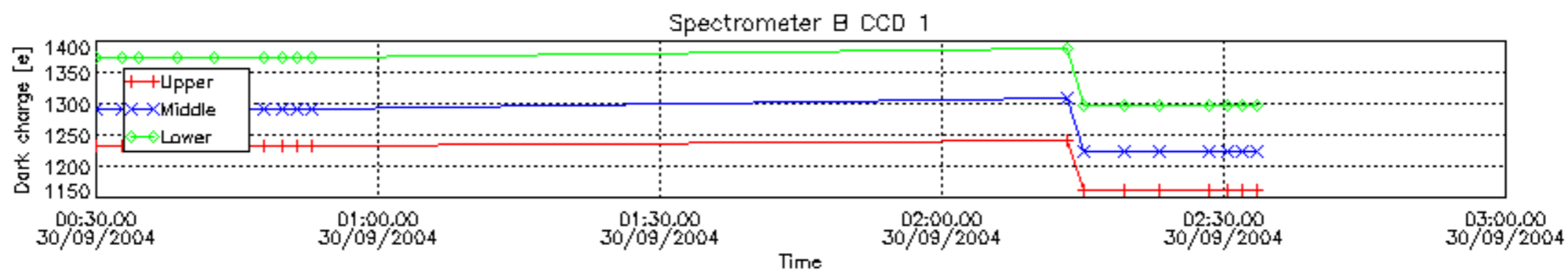
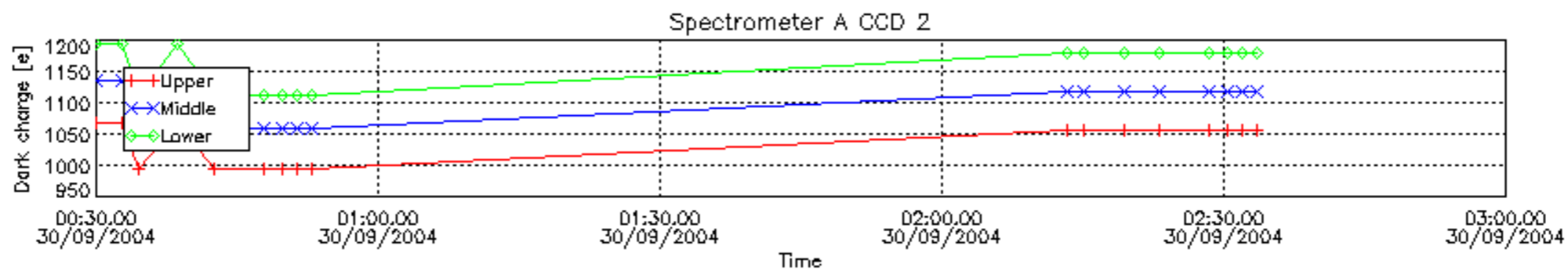
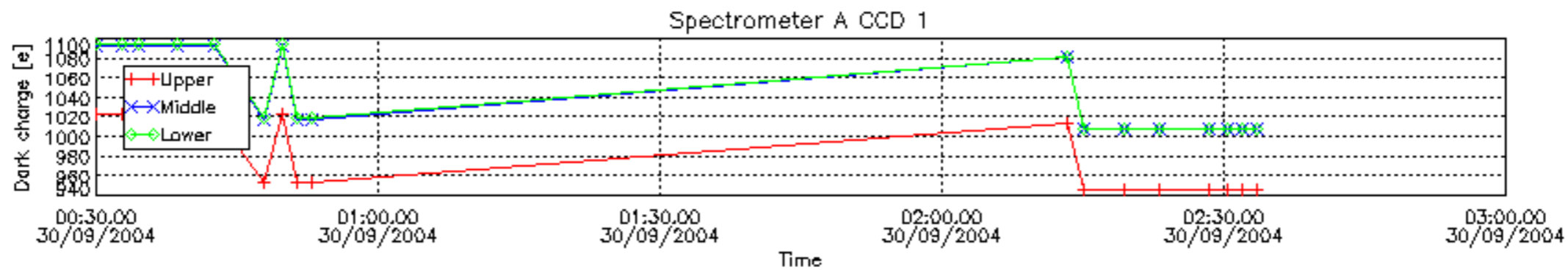


## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1462.2	1448.0	1461.1	1447.7
St. deviation:	6.7919	7.7643	6.2369	7.2175
Maximum:	1522.0	1656.0	1499.0	1494.0
Minimum:	1431.0	1416.0	1435.0	1431.0
Number of data:	23950.	23950.	35700.	35700.

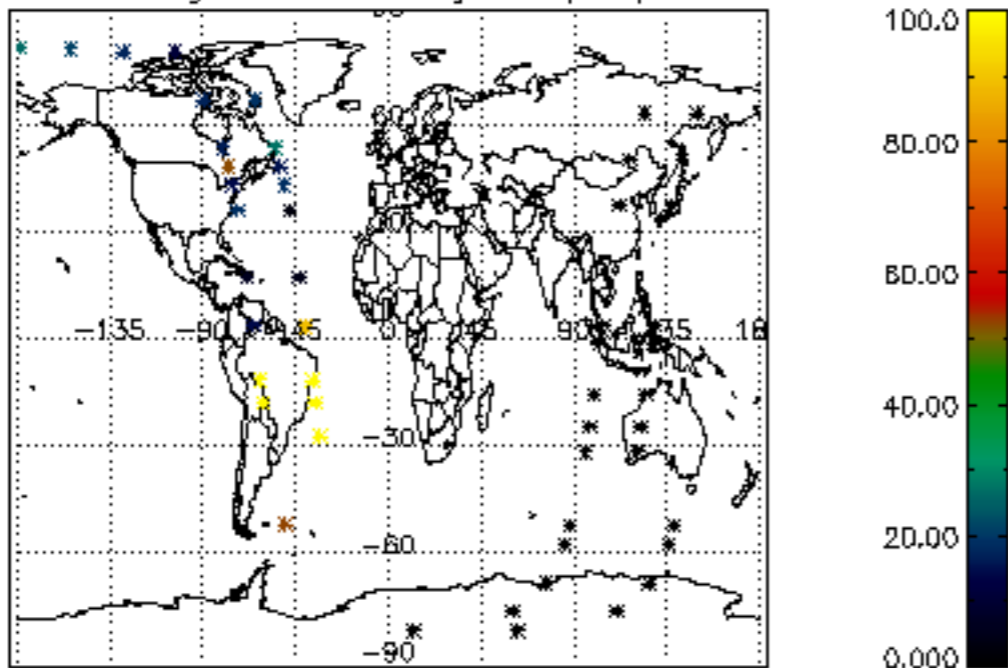




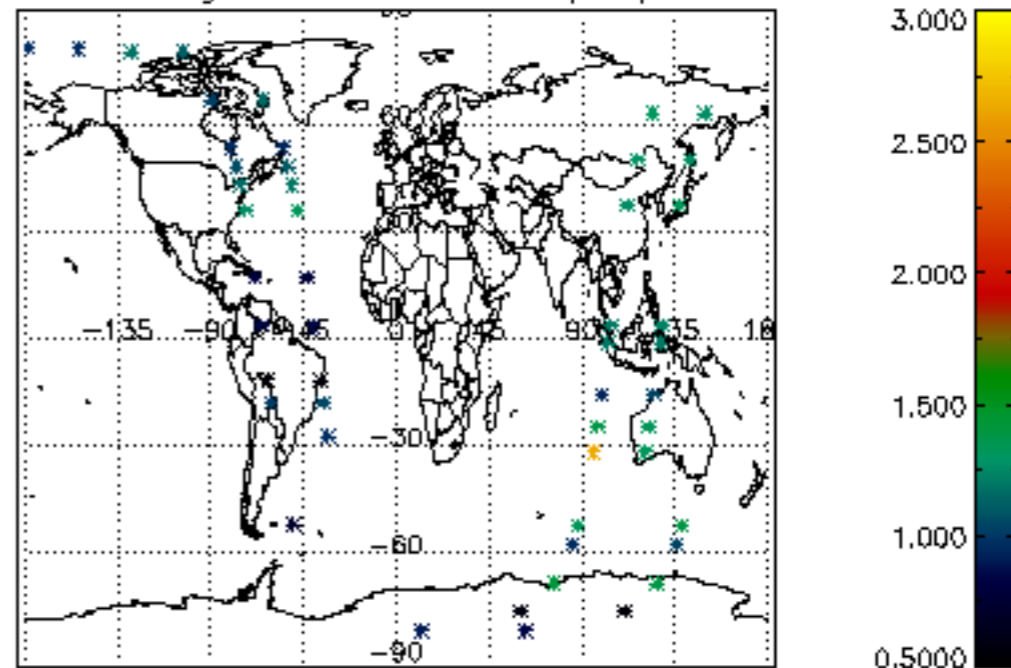




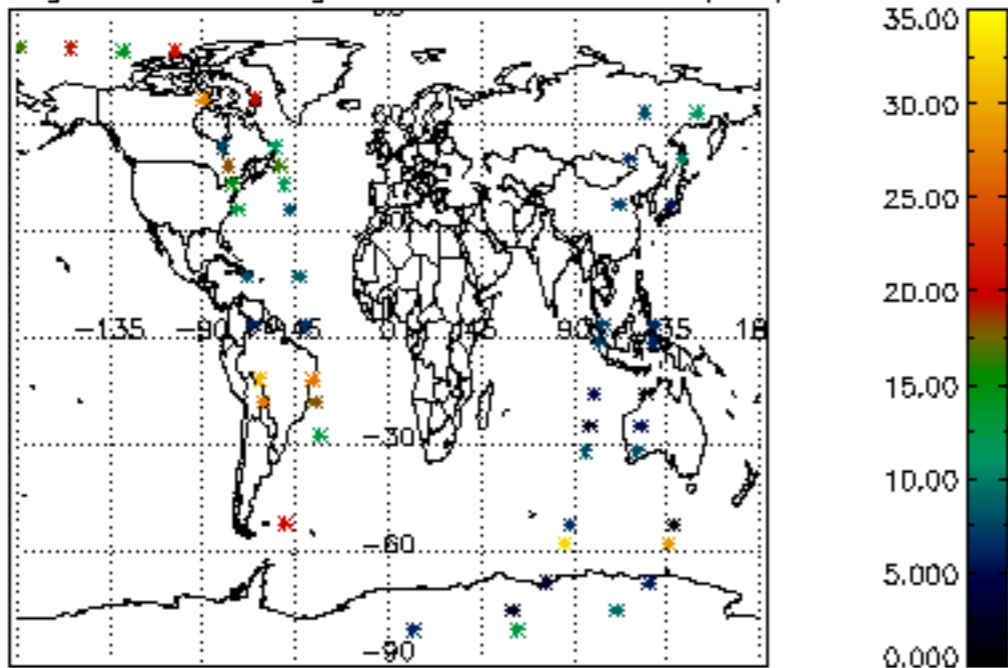
Percentage of cosmic ray hits per profile



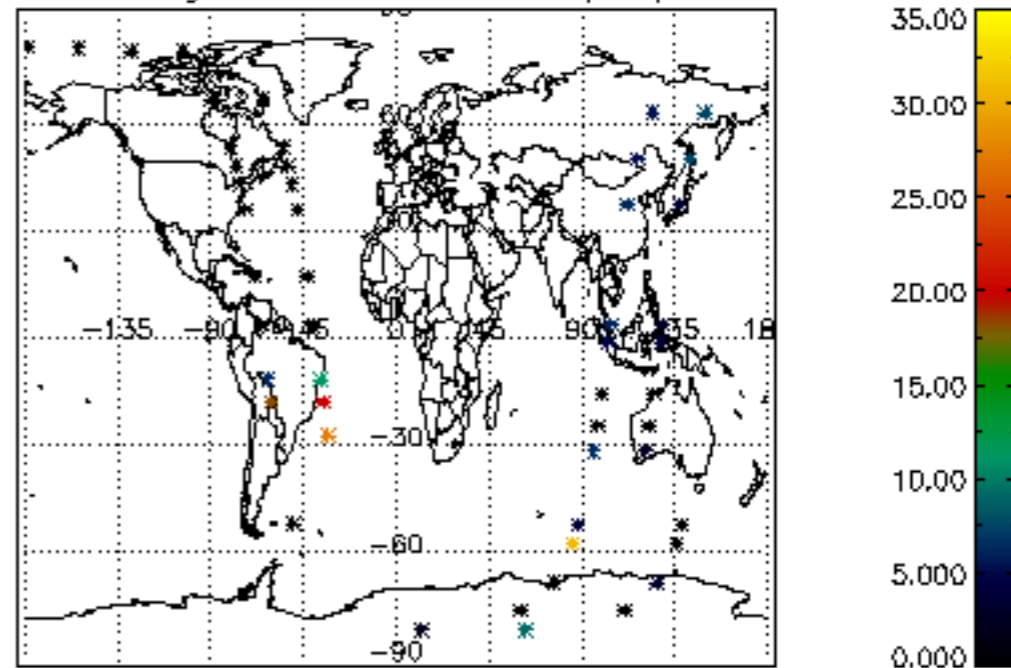
Percentage of datation errors per profile



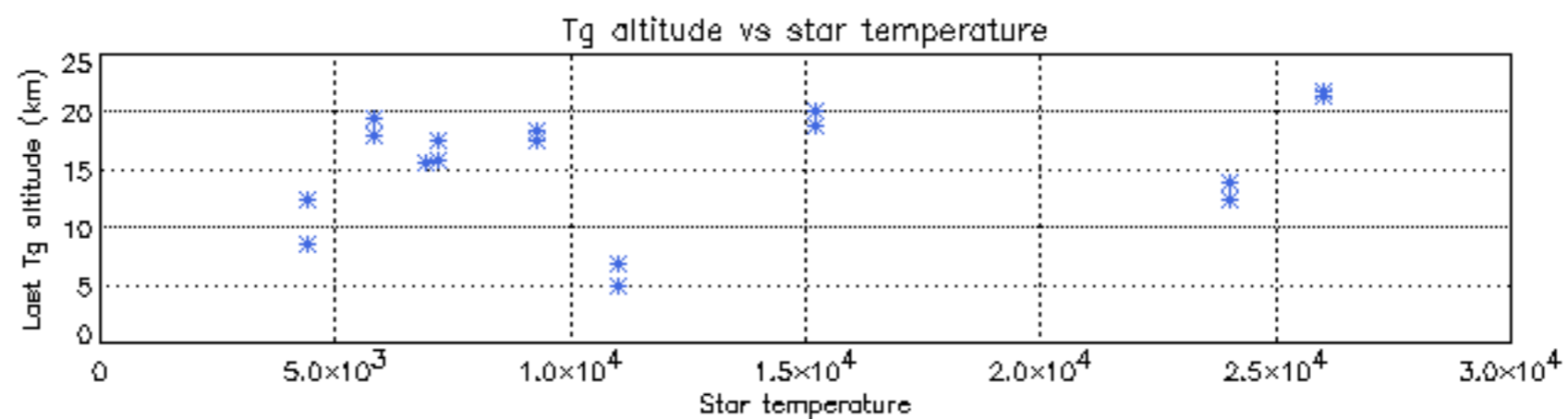
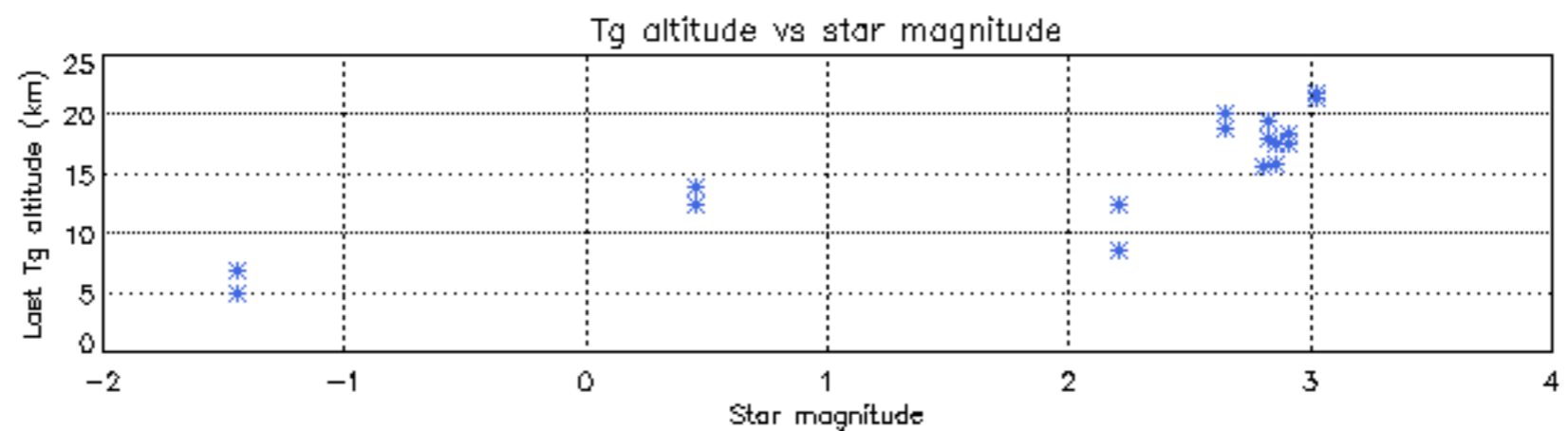
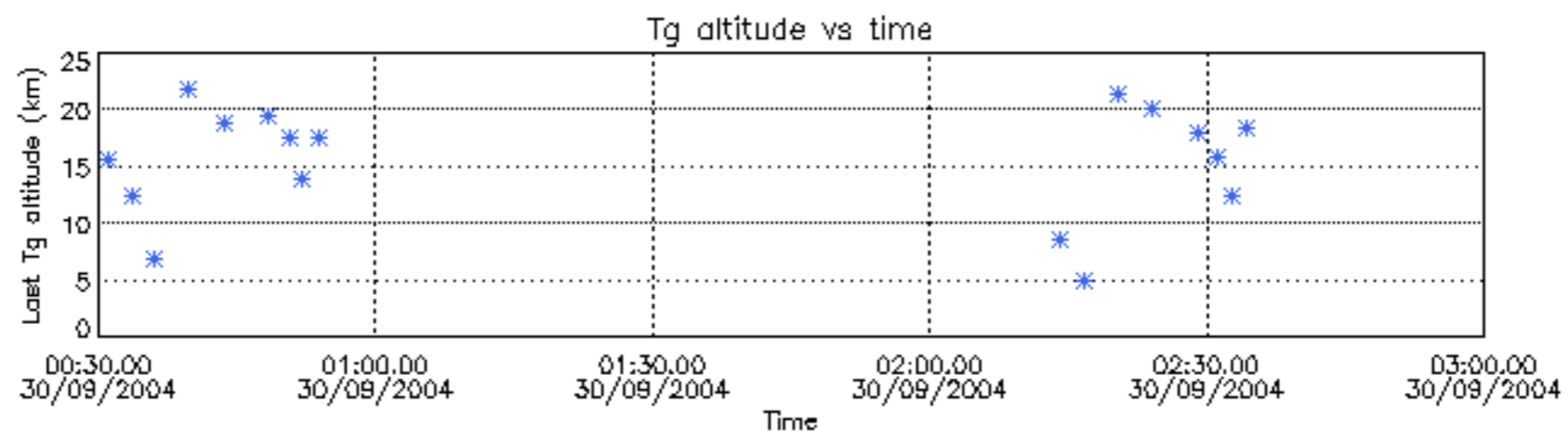
Percentage of star falling outside central band per profile



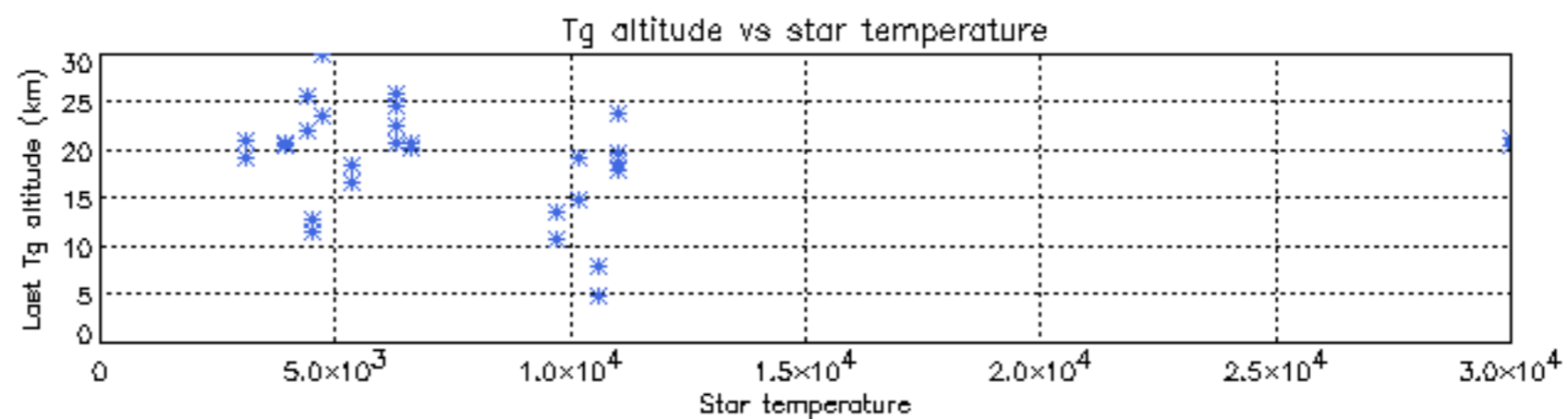
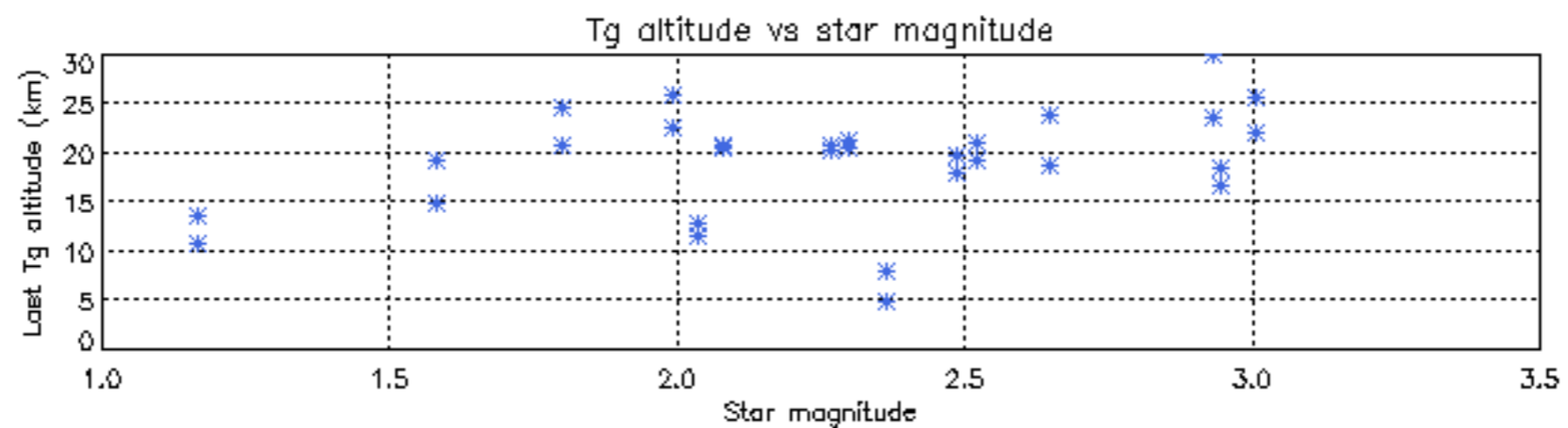
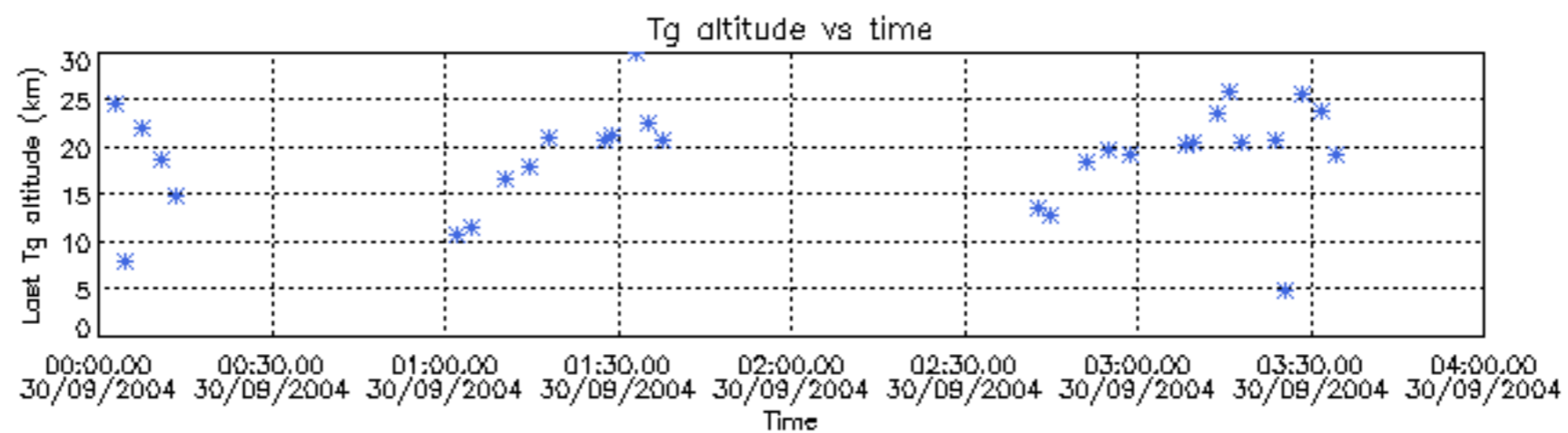
Percentage of saturation errors per profile



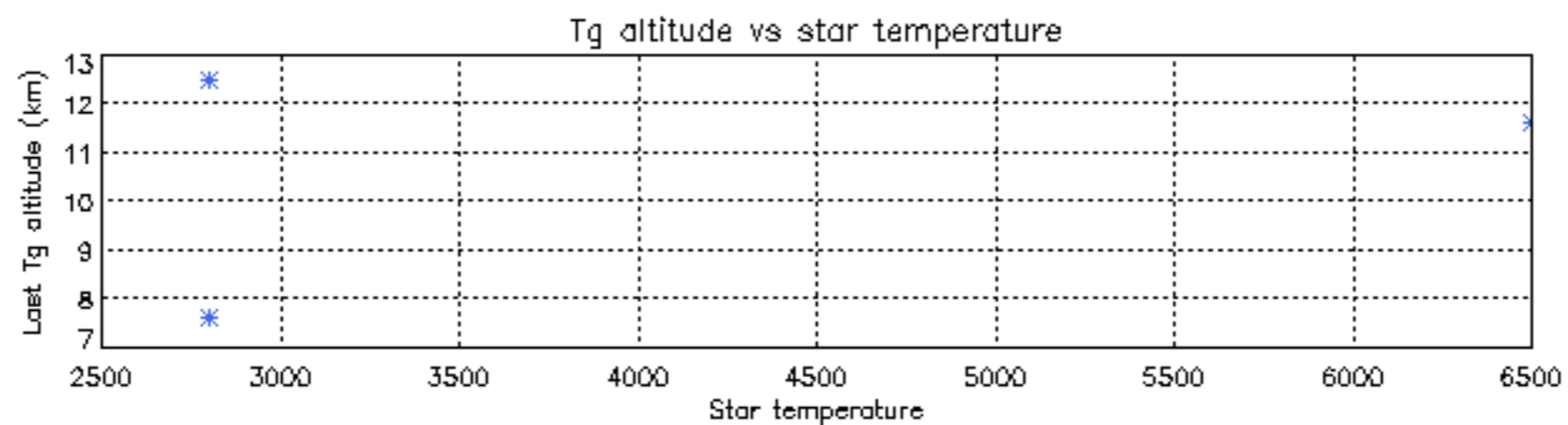
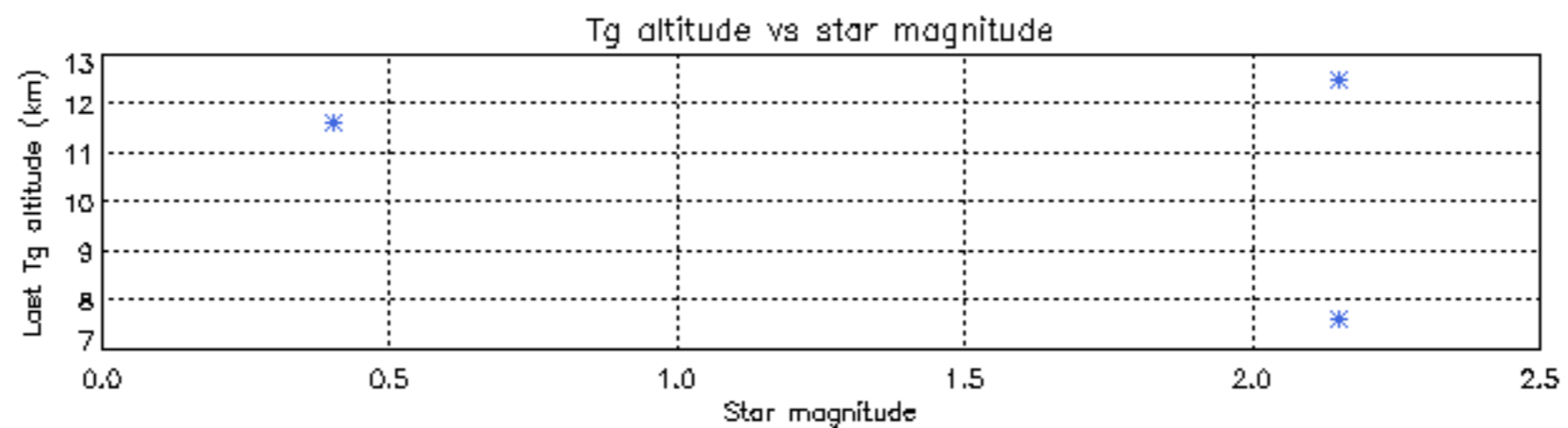
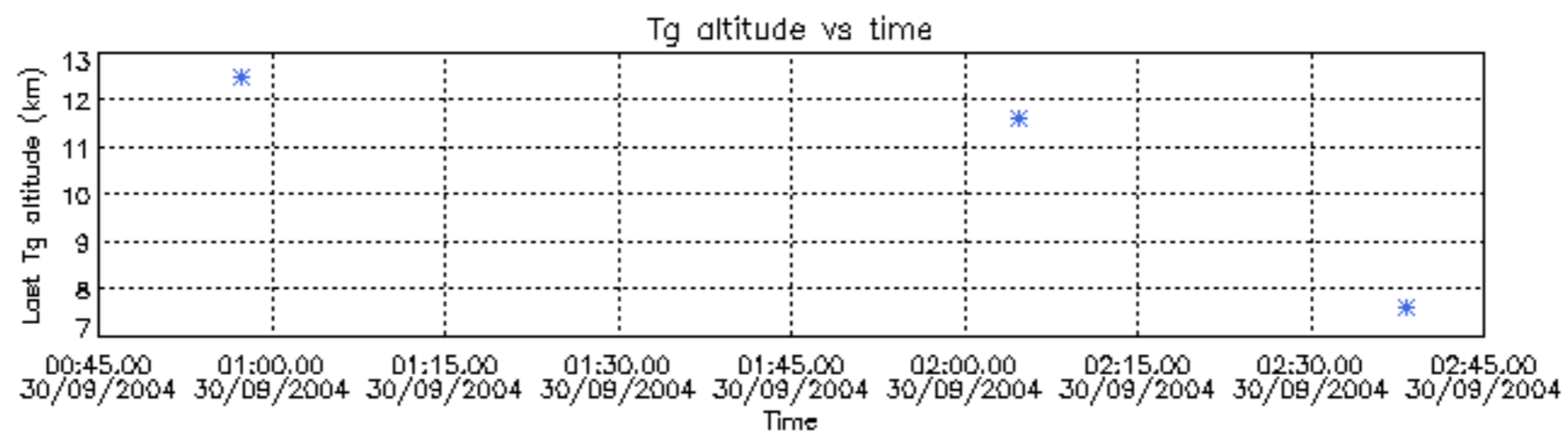
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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7;	879.0;	05-SEP-2004	22:25:51;	Dark	;	41.5;	148;	Alp Tuc	;	2.88;	4100;occ;	83;	0;	13167
8;	1001.3;	05-SEP-2004	22:27:53;	Dark	;	46.5;	84;	Alp Phe	;	2.40;	4500;occ;	93;	0;	13167
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13;	1812.8;	05-SEP-2004	22:41:24;	Bright;		39.0;	154;	22Bet Aqr	;	2.90;	5700;occ;	78;	0;	13167
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28;	4377.9;	05-SEP-2004	23:24:09;	Bright;		53.5;	107;	37The Aur	;	2.65;	11000;occ;	107;	0;	13167
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28;	4378.1;	06-SEP-2004	01:04:45;	Bright;		56.0;	107;	37The Aur	;	2.65;	11000;occ;	112;	0;	13168
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8;	-3230.9;	19-SEP-2004	08:52:52;	Bright;	;	56.0;	53;	43Bet	And	;	2.05;	3300;	occ;	112;	0;	13359
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13;	-2378.8;	19-SEP-2004	09:07:04;	Bright;	;	71.0;	175;	39Del	Per	;	3.01;	19400;	occ;	142;	0;	13359
14;	-2156.3;	19-SEP-2004	09:10:46;	Bright;	;	37.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	74;	0;	13359
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32;	1302.2;	19-SEP-2004	10:08:25;	Dark	;	40.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	80;	0;	13360
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34;	1532.2;	19-SEP-2004	10:12:15;	Dark	;	60.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	120;	0;	13360
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3;	-3943.6;	19-SEP-2004	12:02:11;	Bright;	;	39.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	79;	0;	13361
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9;	-3062.6;	19-SEP-2004	12:16:52;	Bright;	;	38.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	77;	0;	13361
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16;	-1668.5;	19-SEP-2004	12:40:06;	Bright;	;	68.5;	107;	37The	Aur	;	2.65;	11000;	occ;	137;	0;	13361
17;	-1473.4;	19-SEP-2004	12:43:21;	Bright;	;	64.0;	17;	78Bet	Gem	;	1.16;	4500;	occ;	128;	0;	13361
18;	-1282.2;	19-SEP-2004	12:46:32;	Dark	;	170.0;	28;	12Bet	Tau	;	1.65;	15200;	occ;	340;	0;	13361
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28; 4512.4; 01-OCT-2004 01:21:20; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;13526
29; 4800.5; 01-OCT-2004 01:26:08; Dark ; 106.0; 170; 27Eps Gem ; 3.00; 9700;occ; 212; 0;13526
30; 5167.5; 01-OCT-2004 01:32:15; Dark ; 72.0; 8; 10Alp CMi ; 0.40; 6500;occ; 144; 0;13526
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3;-4617.0; 30-SEP-2004 19:27:59; Dark ; 40.5; 18; 24Alp PsA ; 1.17; 9700;occ; 81; 0;13523
4;-4480.5; 30-SEP-2004 19:30:15; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;13523
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7;-3651.3; 30-SEP-2004 19:44:05; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;13523
8;-3509.5; 30-SEP-2004 19:46:26; Bright; 65.5; 105; 6Bet Ari ; 2.64; 8900;occ; 131; 0;13523
9;-3378.6; 30-SEP-2004 19:48:37; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13523
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11;-3006.3; 30-SEP-2004 19:54:50; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13523
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14;-2485.4; 30-SEP-2004 20:03:31; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;13523
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