

# GOMOS Daily Report 26-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	27SEP2004 05:02:02
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (26SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (27SEP2004 00:00:00)

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

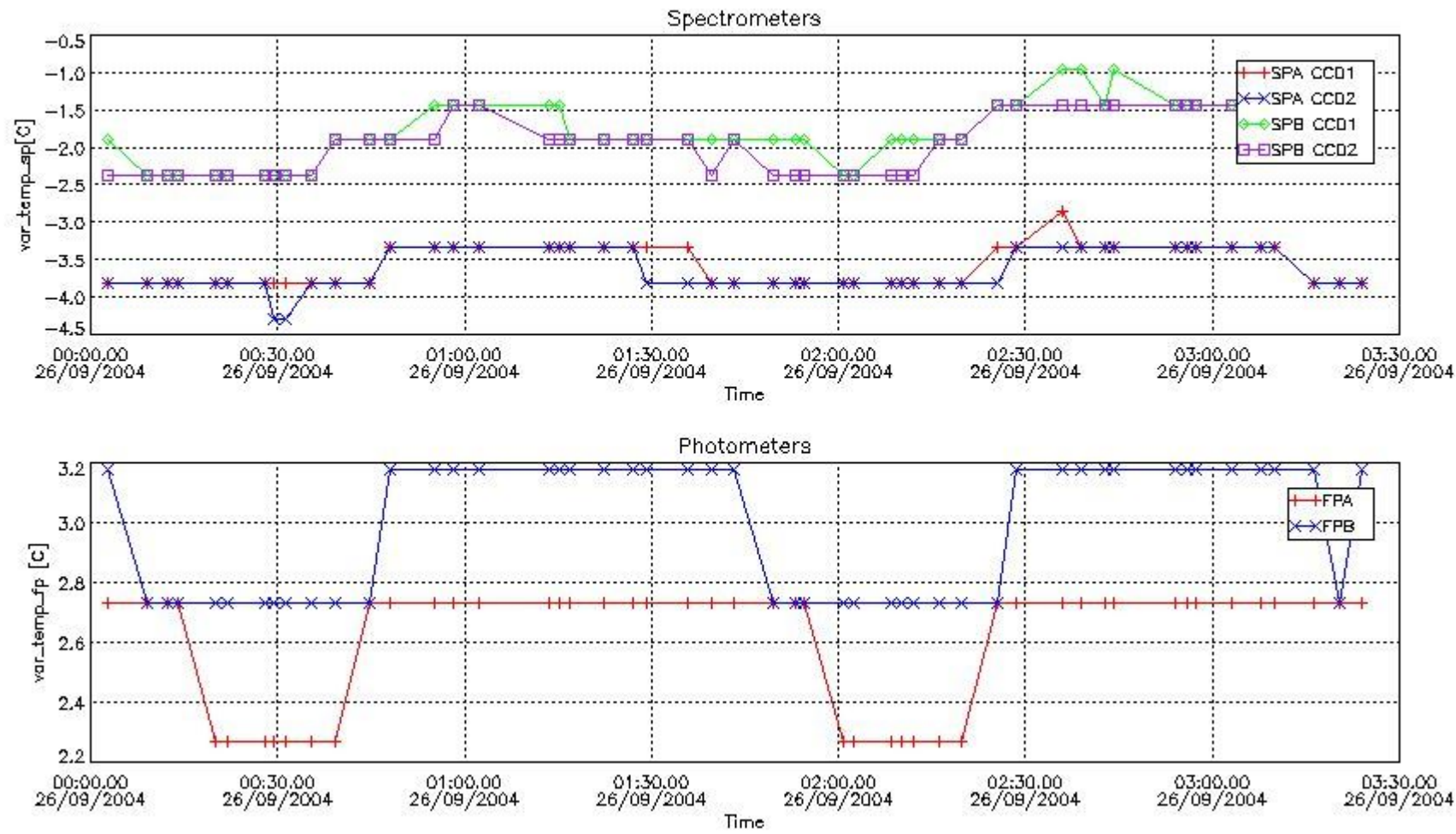
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040926_000245_000000382030_00374_13454_0011.N1	26-SEP-2004 00:02:45	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	13454	No
GOM_TRA_1PNPDE20040926_000855_000000412030_00374_13454_0012.N1	26-SEP-2004 00:08:55	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	13454	No
GOM_TRA_1PNPDE20040926_001228_000000412030_00374_13454_0013.N1	26-SEP-2004 00:12:28	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	13454	No
GOM_TRA_1PNPDE20040926_001358_000000432030_00374_13454_0014.N1	26-SEP-2004 00:13:58	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	13454	No
GOM_TRA_1PNPDE20040926_002007_000000342030_00374_13454_0015.N1	26-SEP-2004 00:20:07	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	13454	No
GOM_TRA_1PNPDE20040926_002150_000000352030_00374_13454_0016.N1	26-SEP-2004 00:21:50	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	13454	No
GOM_TRA_1PNPDE20040926_002755_000000372030_00374_13454_0017.N1	26-SEP-2004 00:27:55	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	13454	No
GOM_TRA_1PNPDE20040926_002924_000000442030_00374_13454_0018.N1	26-SEP-2004 00:29:24	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	13454	No
GOM_TRA_1PNPDE20040926_003124_000000662030_00374_13454_0019.N1	26-SEP-2004 00:31:24	Bright	66.000	42	34Bet Aur	1.9000	10200.	132	13454	No
GOM_TRA_1PNPDE20040926_003531_000000782030_00374_13454_0020.N1	26-SEP-2004 00:35:31	Bright	78.000	107	37The Aur	2.6490	11000.	156	13454	No
GOM_TRA_1PNPDE20040926_003910_000002552030_00374_13454_0021.N1	26-SEP-2004 00:39:10	Twilight	255.00	114	3lot Aur	2.6930	4600.0	510	13454	No
GOM_TRA_1PNPDE20040926_004449_000001342030_00374_13454_0022.N1	26-SEP-2004 00:44:49	Twilight	134.00	151	13Mu Gem	2.8900	3000.0	268	13454	No
GOM_TRA_1PNPDE20040926_004758_000000712030_00374_13454_0023.N1	26-SEP-2004 00:47:58	Twilight	71.000	8	10Alp CMi	0.40000	6500.0	142	13454	No
GOM_TRA_1PNPDE20040926_005513_000000502030_00374_13454_0000.N1	26-SEP-2004 00:55:13	Dark	49.500	132	15Rho Pup	2.8030	6900.0	99	13454	No
GOM_TRA_1PNPDE20040926_005816_000000502030_00374_13454_0001.N1	26-SEP-2004 00:58:16	Dark	49.500	65	Lam Vel	2.2040	4400.0	99	13454	No
GOM_TRA_1PNPDE20040926_010217_000000402030_00374_13454_0002.N1	26-SEP-2004 01:02:17	Dark	40.000	71	lot Car	2.2460	7700.0	80	13454	No
GOM_TRA_1PNPDE20040926_011328_000000392030_00375_13455_0003.N1	26-SEP-2004 01:13:28	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13455	No
GOM_TRA_1PNPDE20040926_011518_000000422030_00375_13455_0004.N1	26-SEP-2004 01:15:18	Dark	41.500	143	Alp Hyi	2.8570	7200.0	83	13455	No
GOM_TRA_1PNPDE20040926_011645_000000462030_00375_13455_0005.N1	26-SEP-2004 01:16:45	Dark	46.000	9	Alp Eri	0.45300	24000.	92	13455	No
GOM_TRA_1PNPDE20040926_012227_000000452030_00375_13455_0006.N1	26-SEP-2004 01:22:27	Twilight	45.000	63	Bet Gru	2.1500	2800.0	90	13455	No
GOM_TRA_1PNPDE20040926_012703_000000452030_00375_13455_0007.N1	26-SEP-2004 01:27:03	Bright	44.500	18	24Alp PsA	1.1660	9700.0	89	13455	No
GOM_TRA_1PNPDE20040926_012919_000000582030_00375_13455_0008.N1	26-SEP-2004 01:29:19	Bright	58.000	52	16Bet Cet	2.0370	4500.0	116	13455	No
GOM_TRA_1PNPDE20040926_013543_000000392030_00375_13455_0009.N1	26-SEP-2004 01:35:43	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	13455	No
GOM_TRA_1PNPDE20040926_013939_000000402030_00375_13455_0010.N1	26-SEP-2004 01:39:39	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	13455	No
GOM_TRA_1PNPDE20040926_014321_000000402030_00375_13455_0011.N1	26-SEP-2004 01:43:21	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13455	No
GOM_TRA_1PNPDE20040926_014931_000000392030_00375_13455_0012.N1	26-SEP-2004 01:49:31	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	13455	No
GOM_TRA_1PNPDE20040926_015304_000000422030_00375_13455_0013.N1	26-SEP-2004 01:53:04	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	13455	No
GOM_TRA_1PNPDE20040926_015433_000000432030_00375_13455_0014.N1	26-SEP-2004 01:54:33	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	13455	No
GOM_TRA_1PNPDE20040926_020042_000000382030_00375_13455_0015.N1	26-SEP-2004 02:00:42	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	13455	No
GOM_TRA_1PNPDE20040926_020226_000000402030_00375_13455_0000.N1	26-SEP-2004 02:02:26	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	13455	No
GOM_TRA_1PNPDE20040926_020830_000000382030_00375_13455_0001.N1	26-SEP-2004 02:08:30	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	13455	No
GOM_TRA_1PNPDE20040926_020959_000000382030_00375_13455_0002.N1	26-SEP-2004 02:09:59	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	13455	No
GOM_TRA_1PNPDE20040926_021200_000000652030_00375_13455_0003.N1	26-SEP-2004 02:12:00	Bright	65.000	42	34Bet Aur	1.9000	10200.	130	13455	No
GOM_TRA_1PNPDE20040926_021607_000000812030_00375_13455_0004.N1	26-SEP-2004 02:16:07	Bright	80.500	107	37The Aur	2.6490	11000.	161	13455	No
GOM_TRA_1PNPDE20040926_021946_000002552030_00375_13455_0005.N1	26-SEP-2004 02:19:46	Twilight	255.00	114	3lot Aur	2.6930	4600.0	510	13455	No
GOM_TRA_1PNPDE20040926_022526_000001262030_00375_13455_0006.N1	26-SEP-2004 02:25:26	Twilight	126.00	151	13Mu Gem	2.8900	3000.0	252	13455	No
GOM_TRA_1PNPDE20040926_022835_000000762030_00375_13455_0007.N1	26-SEP-2004 02:28:35	Twilight	76.000	8	10Alp CMi	0.40000	6500.0	152	13455	No
GOM_TRA_1PNPDE20040926_023550_000000472030_00375_13455_0008.N1	26-SEP-2004 02:35:50	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	13455	No
GOM_TRA_1PNPDE20040926_023852_000000462030_00375_13455_0009.N1	26-SEP-2004 02:38:52	Dark	46.000	65	Lam Vel	2.2040	4400.0	92	13455	No
GOM_TRA_1PNPDE20040926_024253_000000432030_00375_13455_0010.N1	26-SEP-2004 02:42:53	Dark	43.000	71	lot Car	2.2460	7700.0	86	13455	No
GOM_TRA_1PNPDE20040926_024412_000000382030_00376_13456_0011.N1	26-SEP-2004 02:44:12	Dark	38.000	159	Ups Car	2.9200	7200.0	76	13456	No
GOM_TRA_1PNPDE20040926_025404_000000392030_00376_13456_0012.N1	26-SEP-2004 02:54:04	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13456	No
GOM_TRA_1PNPDE20040926_025554_000000432030_00376_13456_0013.N1	26-SEP-2004 02:55:54	Dark	43.000	143	Alp Hyi	2.8570	7200.0	86	13456	No
GOM_TRA_1PNPDE20040926_025721_000000452030_00376_13456_0014.N1	26-SEP-2004 02:57:21	Dark	44.500	9	Alp Eri	0.45300	24000.	89	13456	No
GOM_TRA_1PNPDE20040926_030303_000000522030_00376_13456_0015.N1	26-SEP-2004 03:03:03	Twilight	52.000	63	Bet Gru	2.1500	2800.0	104	13456	No
GOM_TRA_1PNPDE20040926_030738_000000422030_00376_13456_0016.N1	26-SEP-2004 03:07:38	Bright	41.500	18	24Alp PsA	1.1660	9700.0	83	13456	No
GOM_TRA_1PNPDE20040926_030957_000000572030_00376_13456_0017.N1	26-SEP-2004 03:09:57	Bright	56.500	52	16Bet Cet	2.0370	4500.0	113	13456	No
GOM_TRA_1PNPDE20040926_031619_000000392030_00376_13456_0018.N1	26-SEP-2004 03:16:19	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	13456	No
GOM_TRA_1PNPDE20040926_032015_000000392030_00376_13456_0019.N1	26-SEP-2004 03:20:15	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	13456	No

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



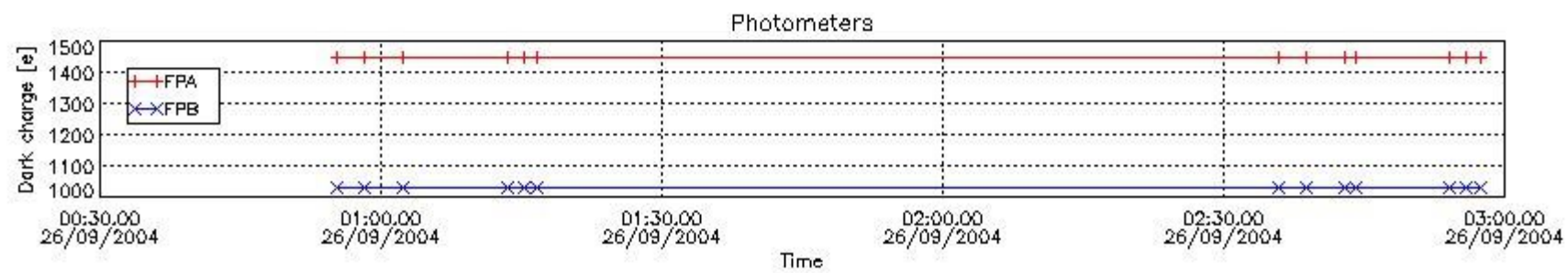
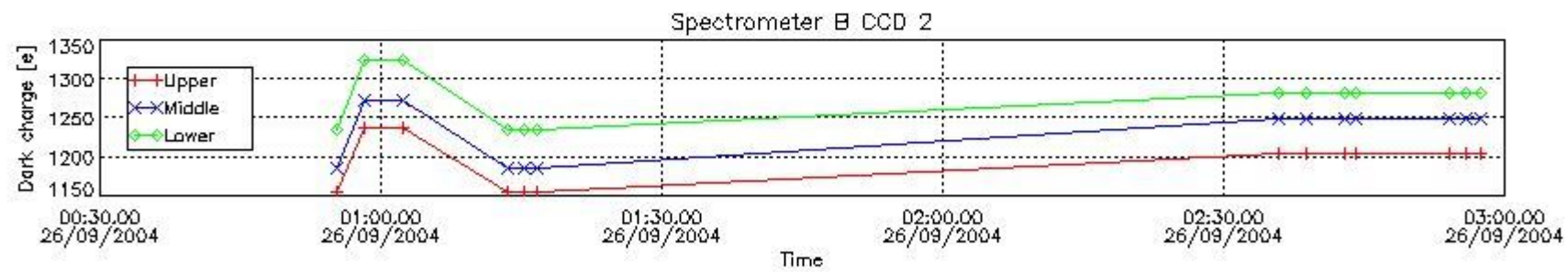
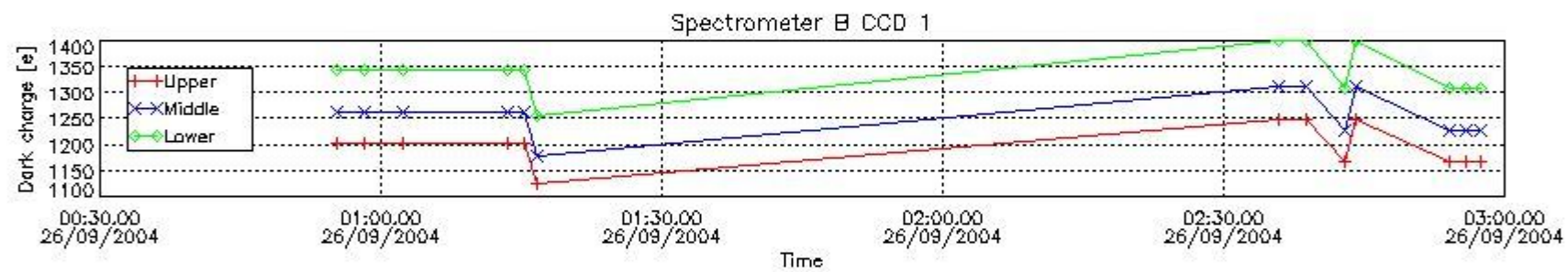
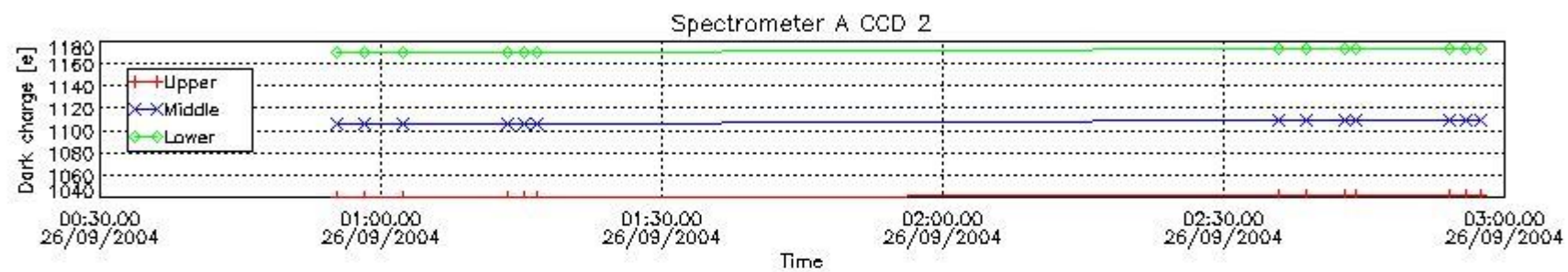
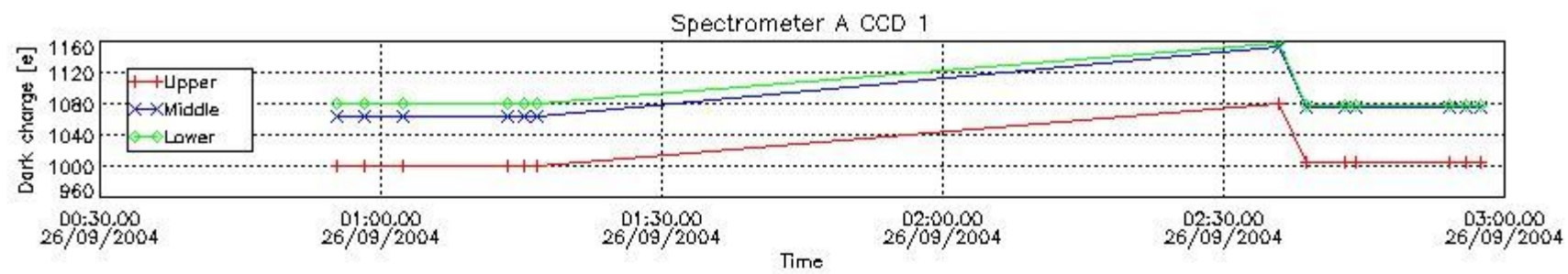
### 4. Overview of dark signal processing per product

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





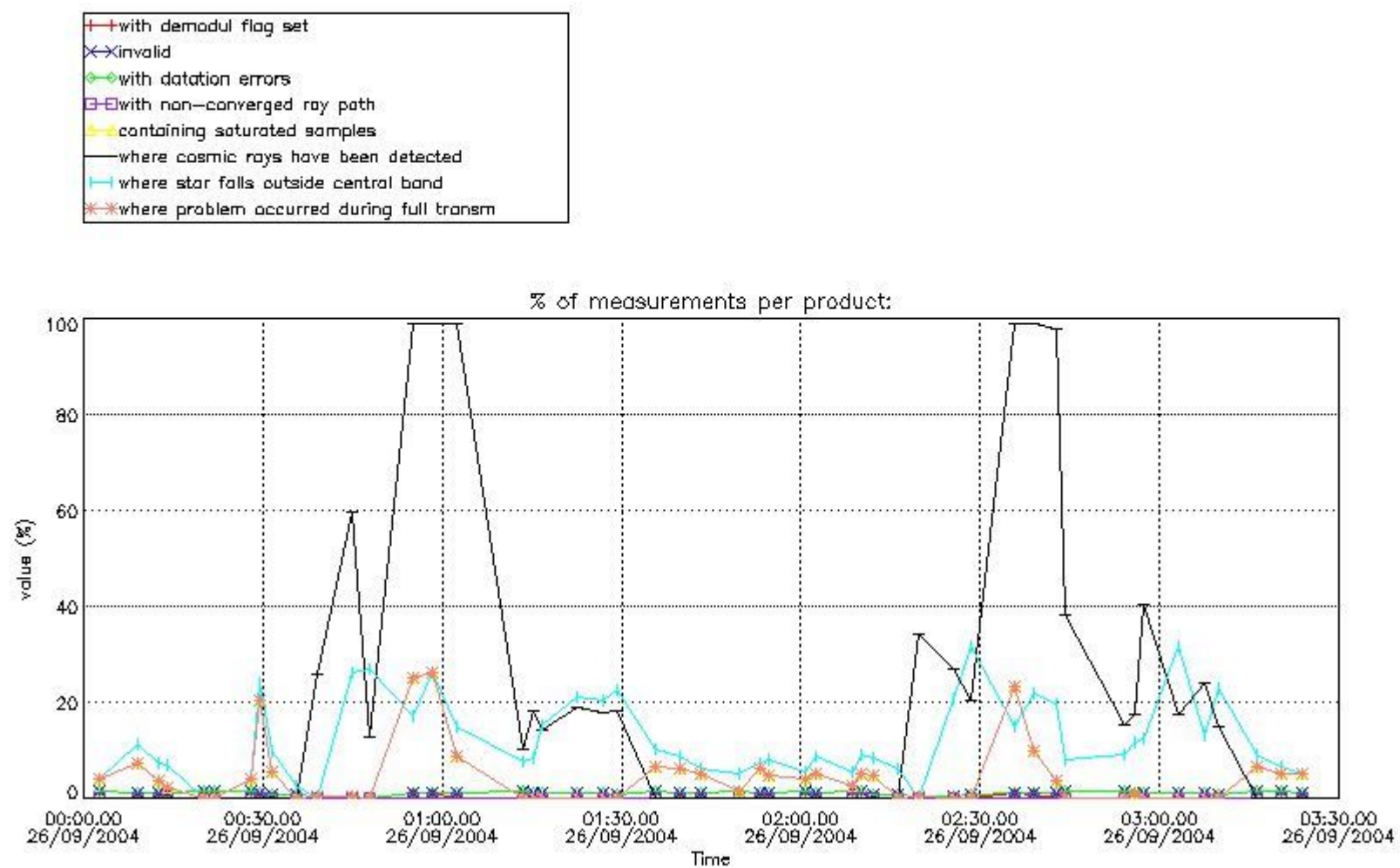
## 5. Demodulation flag and quality information monitoring

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:

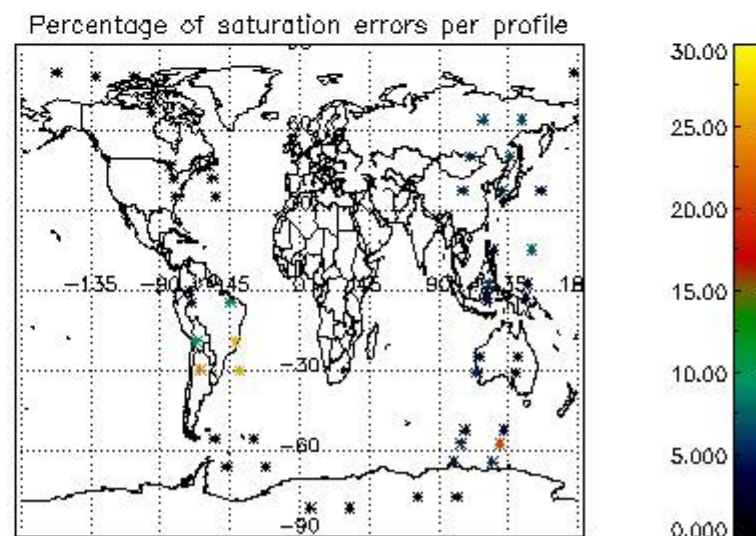
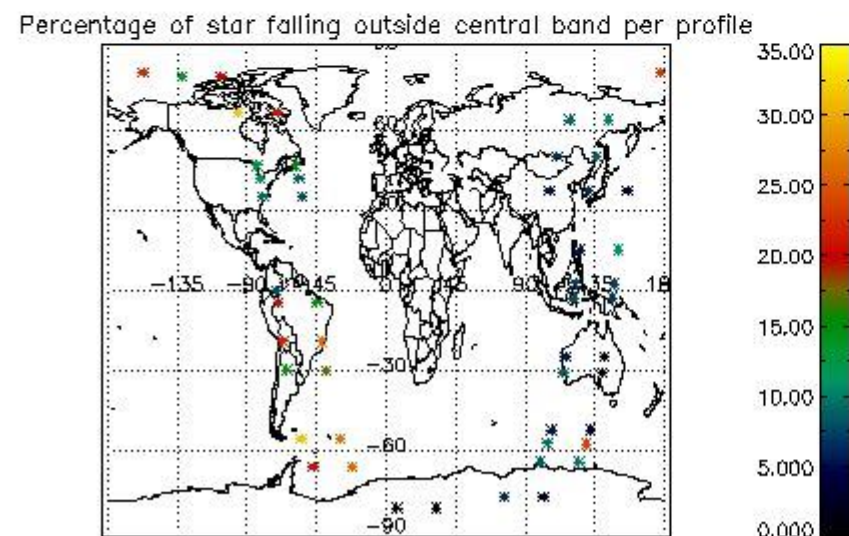
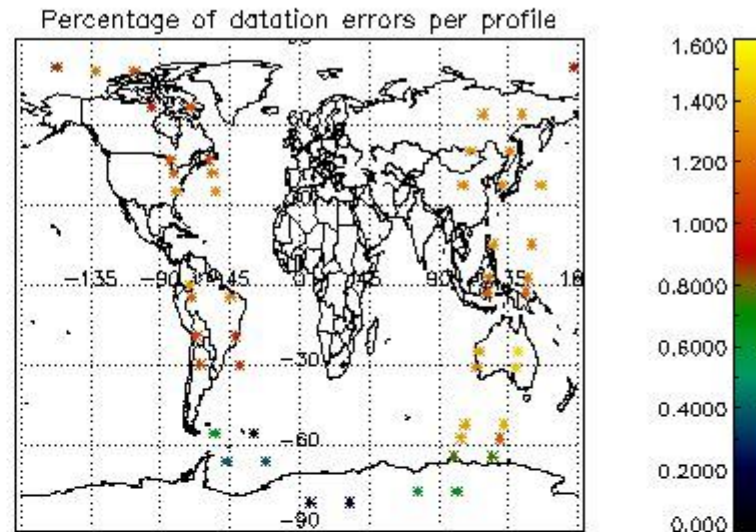
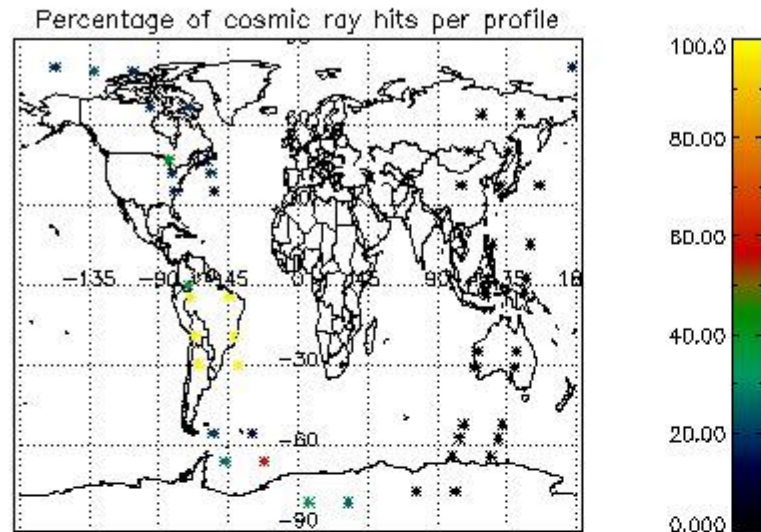
At least one measurement with demodulation flag set:	20.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





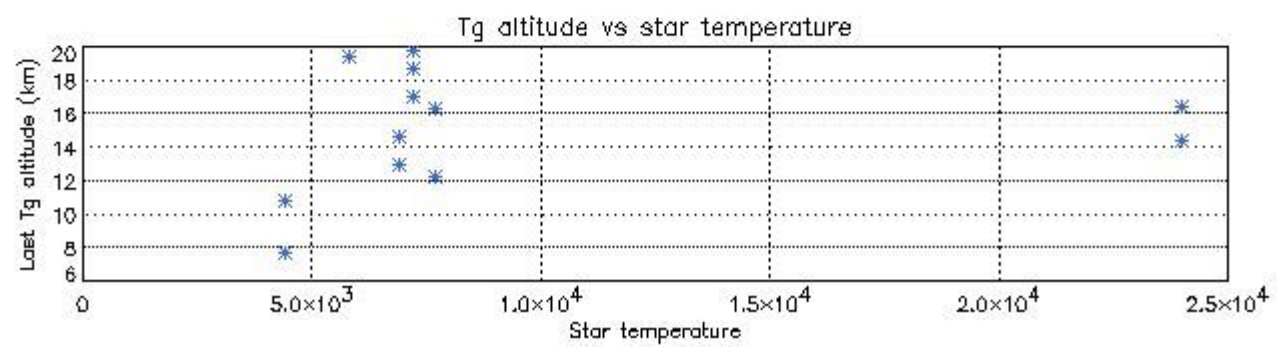
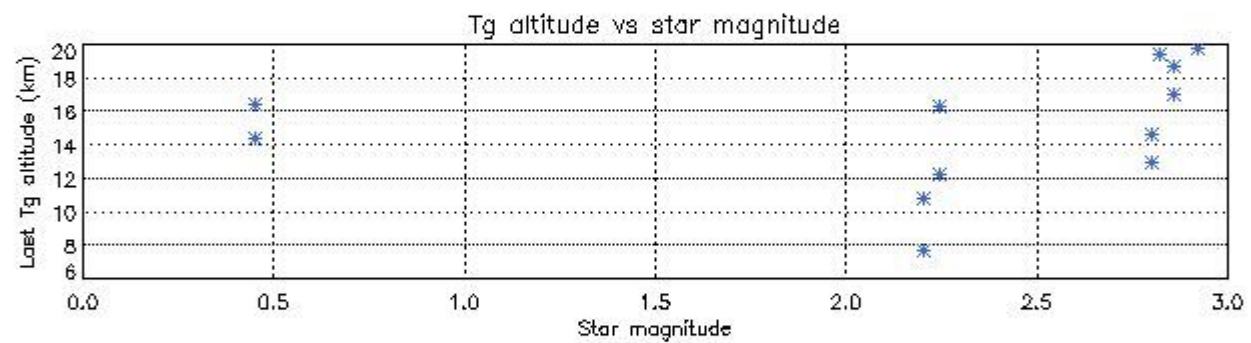
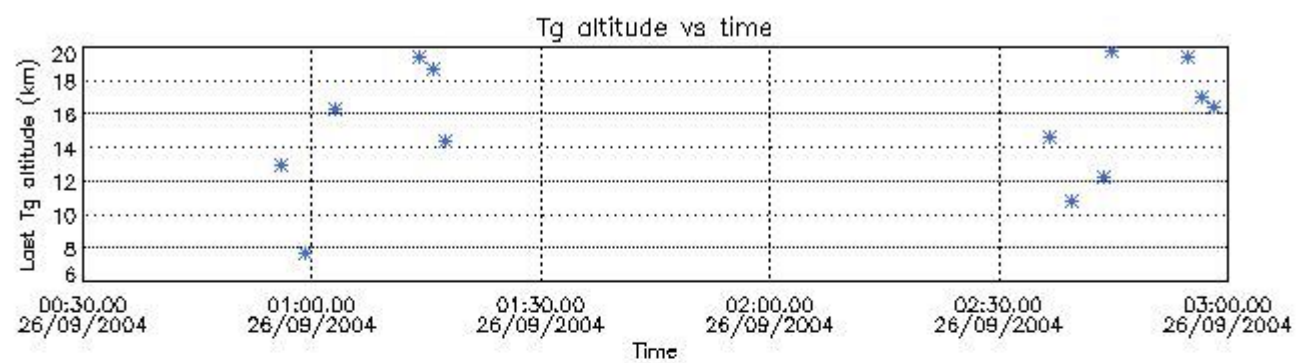
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.338	19.198	26.133
St. deviation:	3.7127	4.4622	33.034
Maximum:	19.720	30.288	79.972
Minimum:	7.6965	9.6235	4.4012
Number of data:	13.000	29.000	8.0000

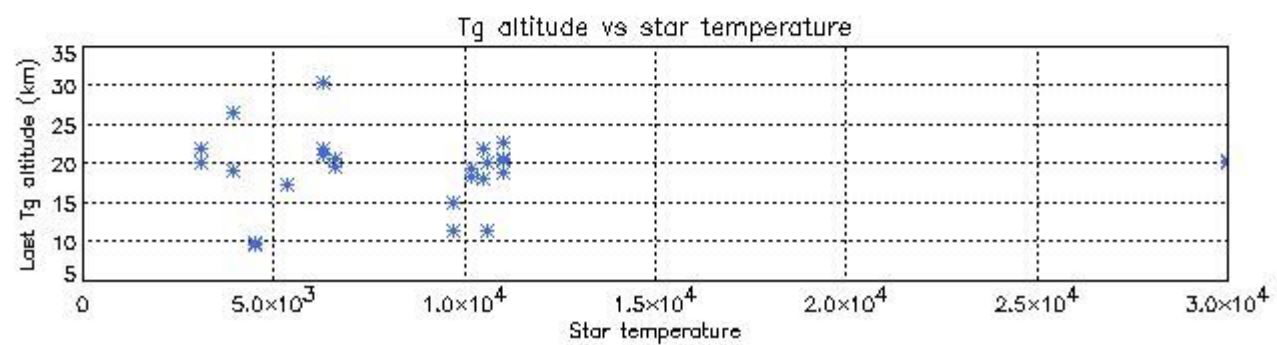
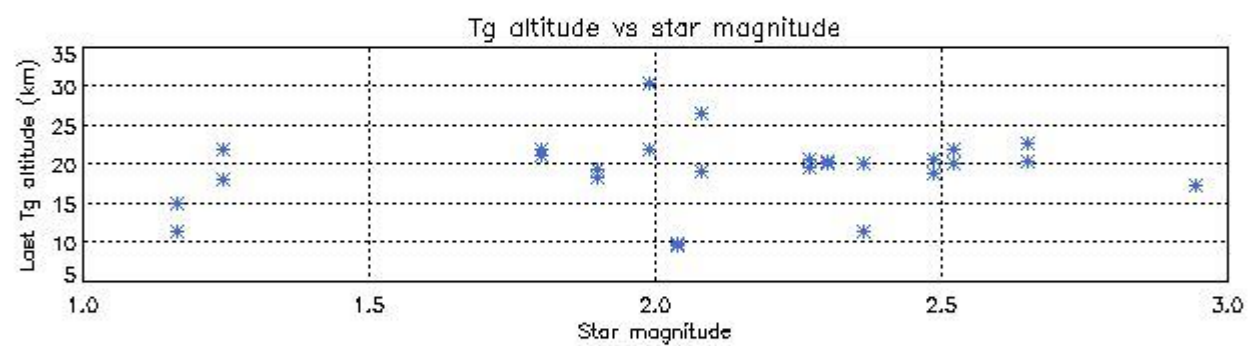
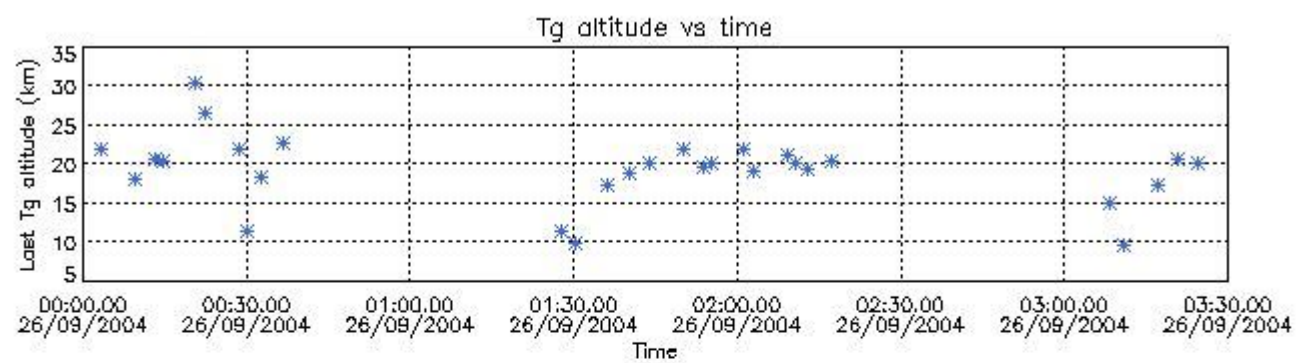
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

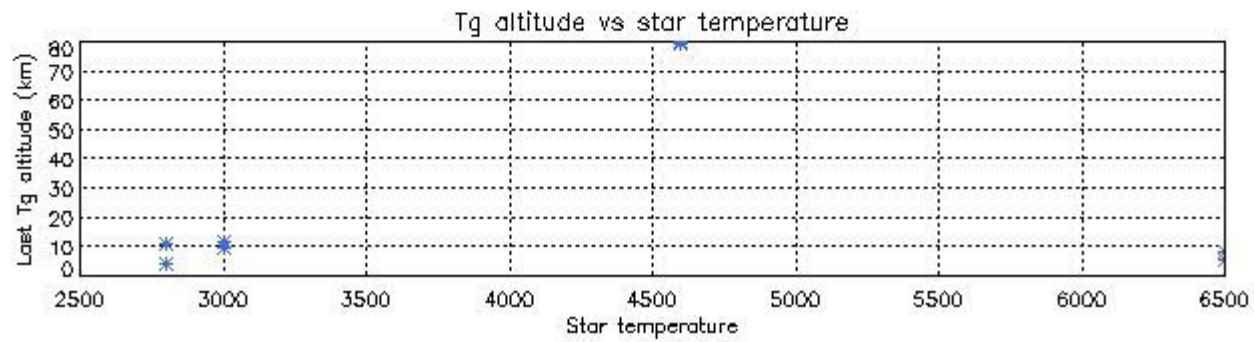
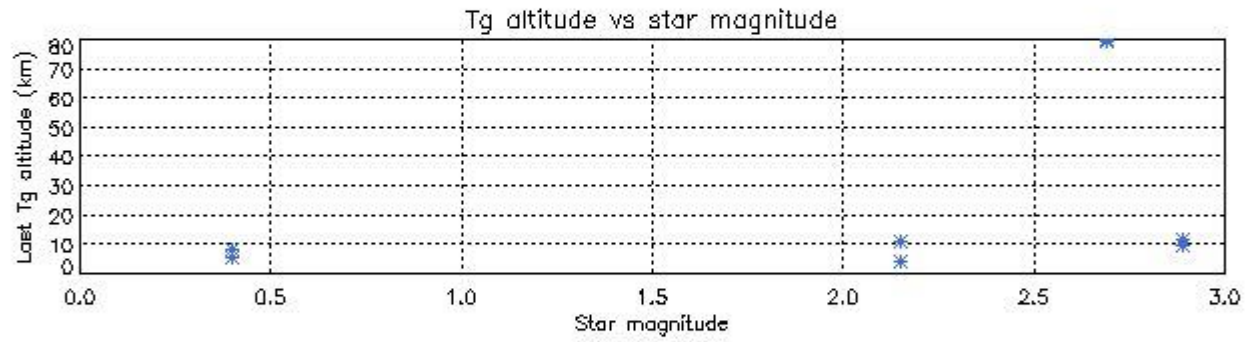
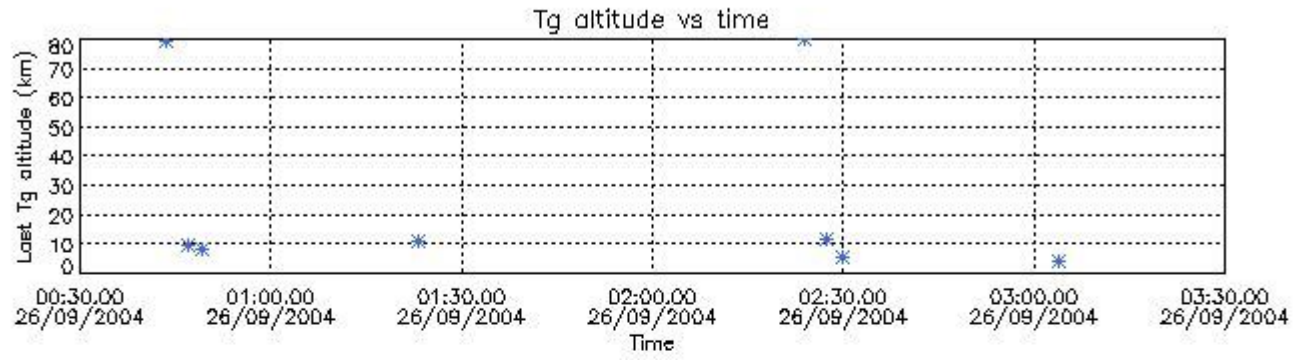
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



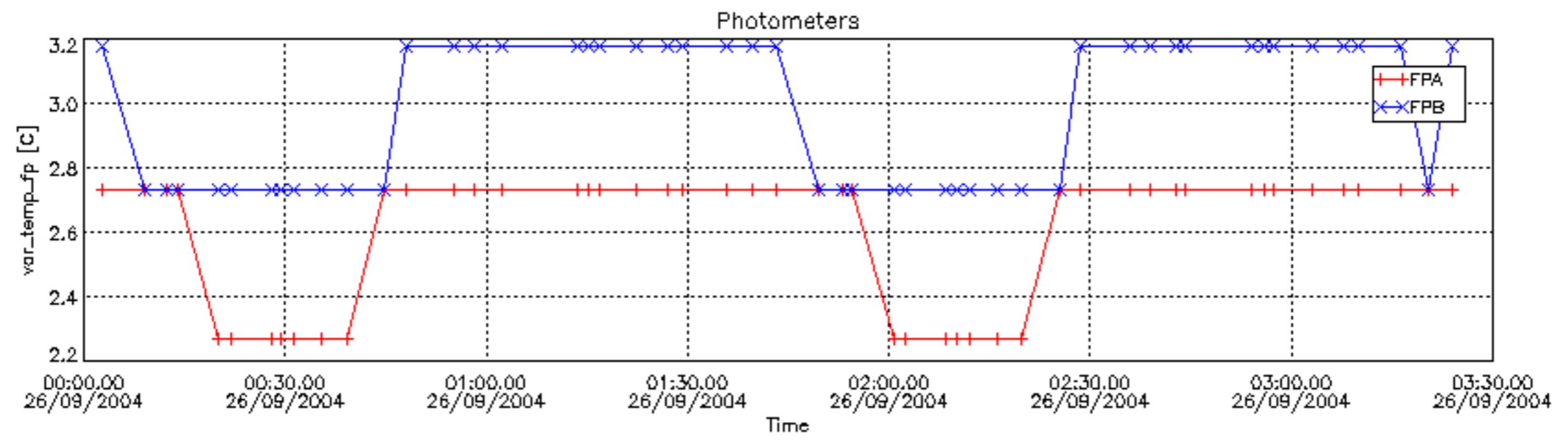
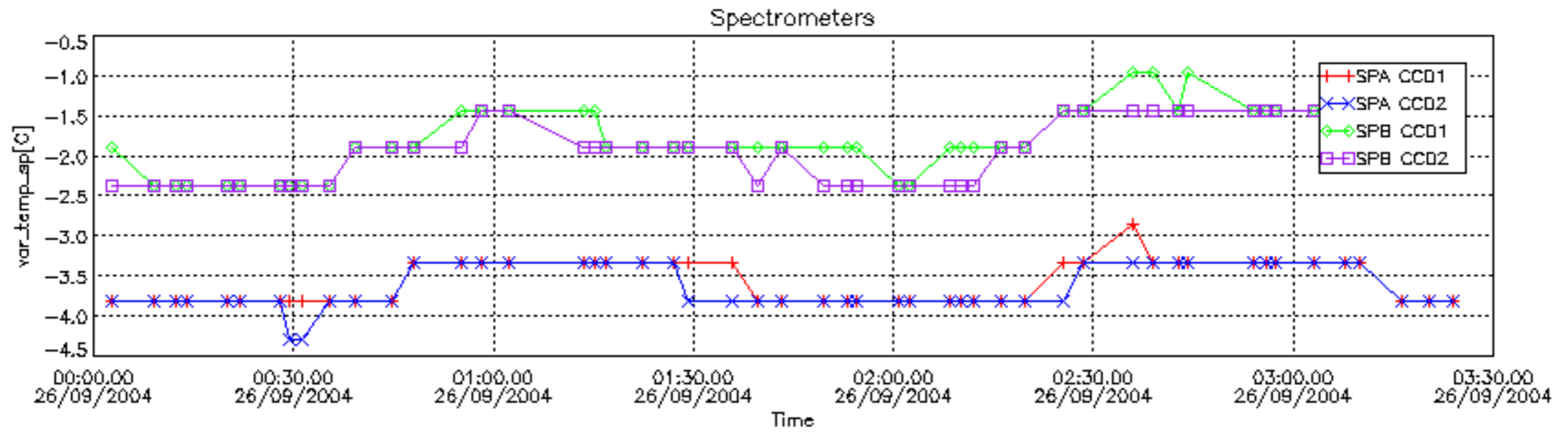
Tangent altitude at which the star is lost

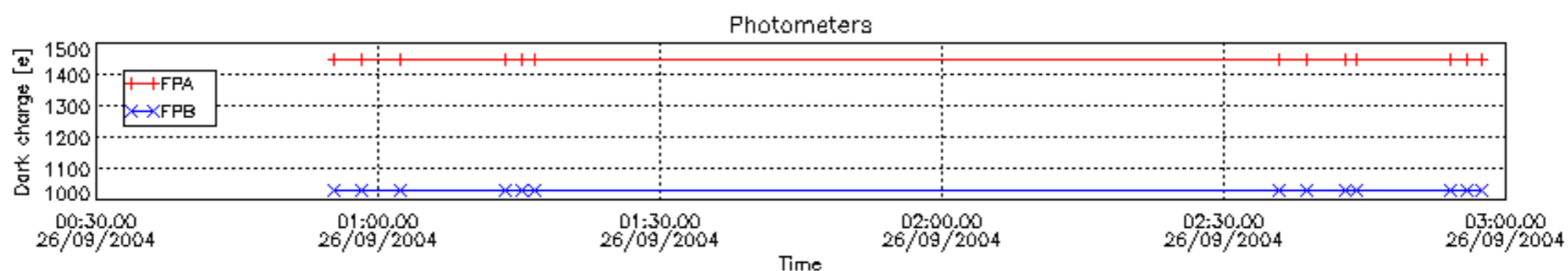
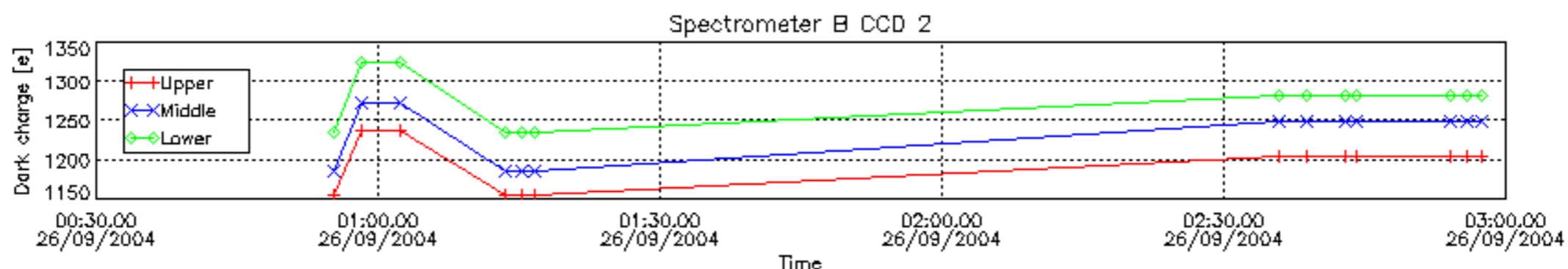
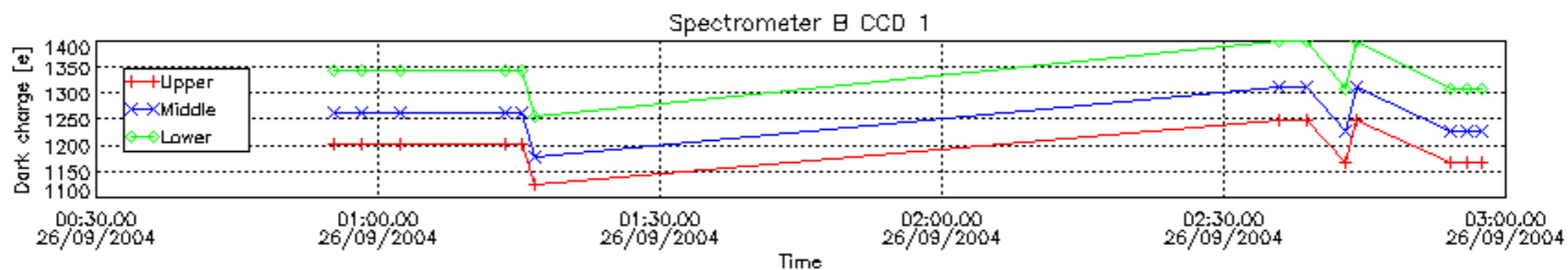
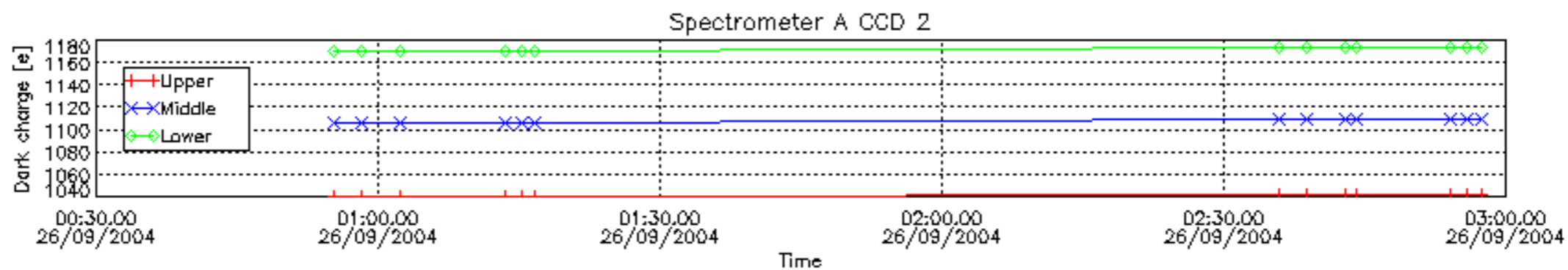
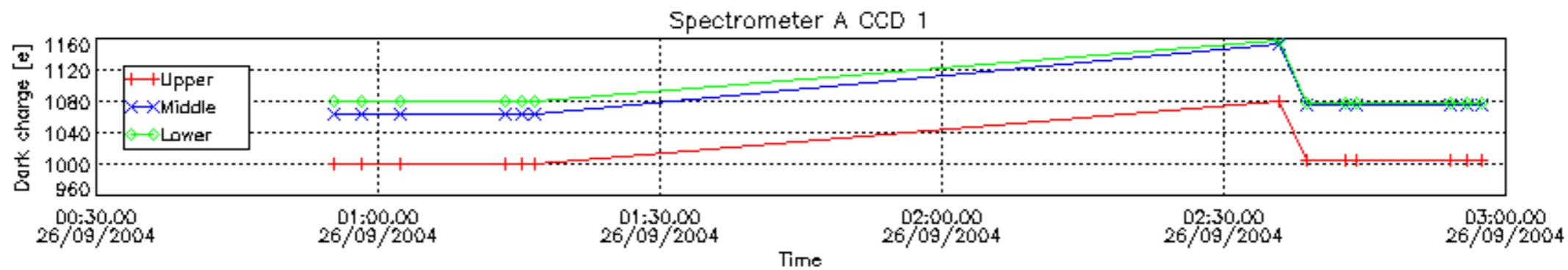


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1460.1	1446.0	1460.9	1447.7
St. deviation:	5.5838	6.4884	5.7222	6.7009
Maximum:	1488.0	1476.0	1502.0	1496.0
Minimum:	1456.0	1438.0	1449.0	1425.0
Number of data:	14250.	14250.	33500.	33500.

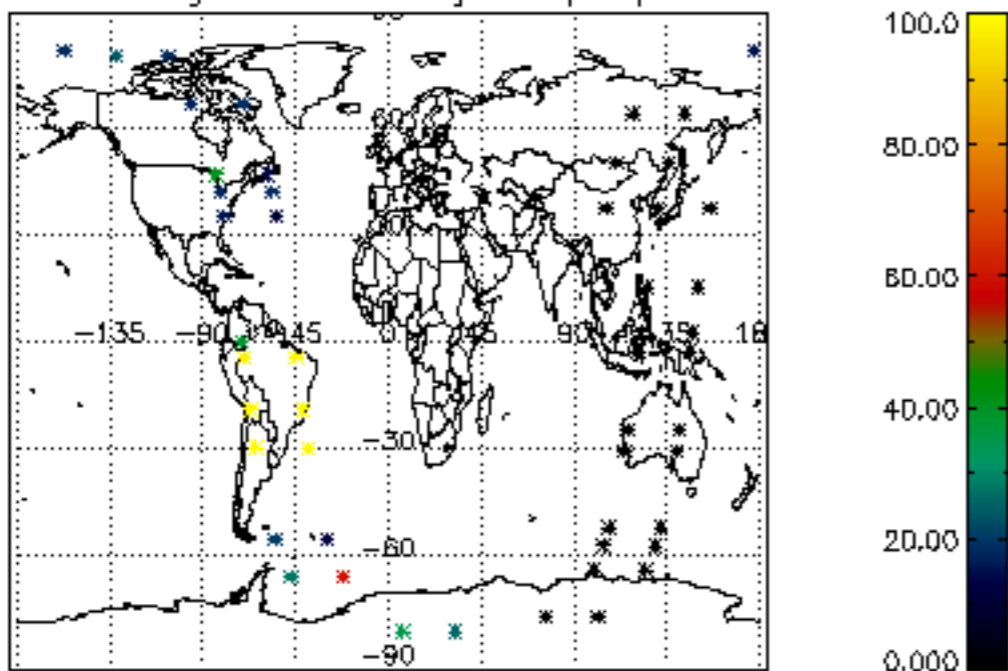




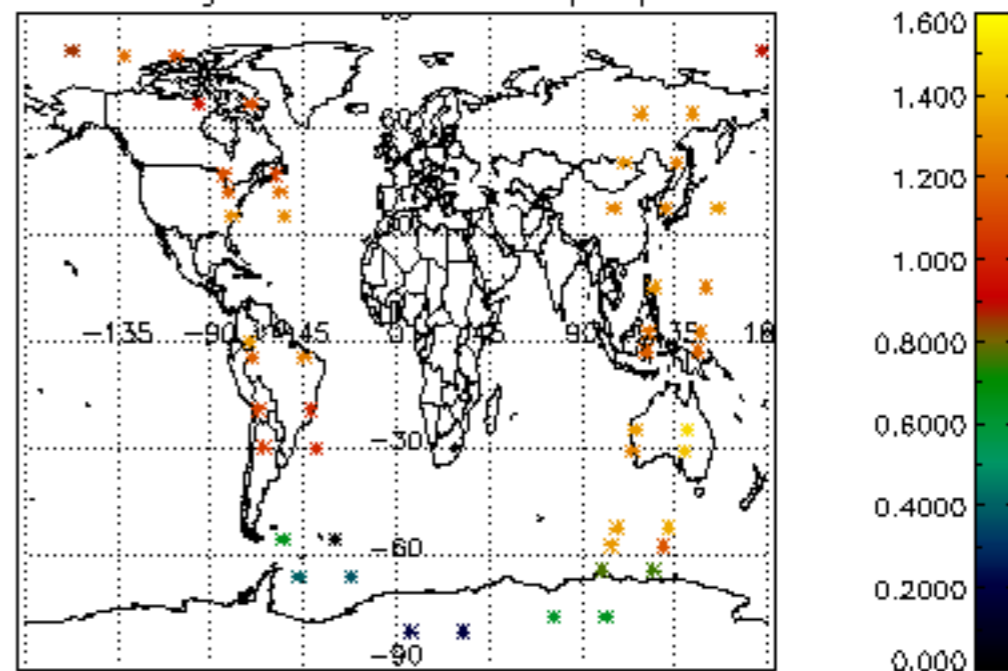




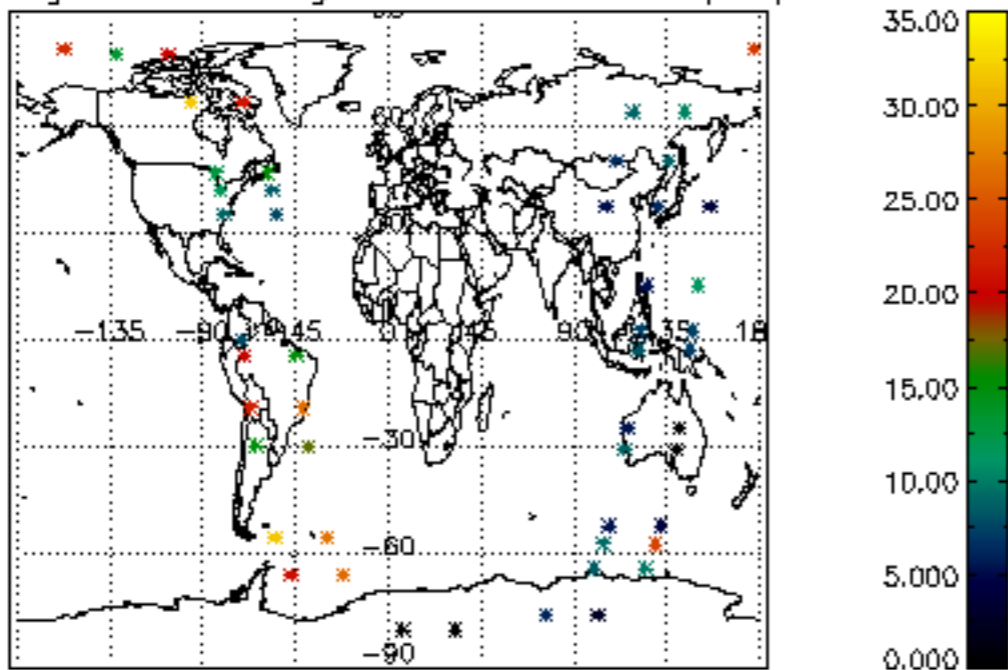
Percentage of cosmic ray hits per profile



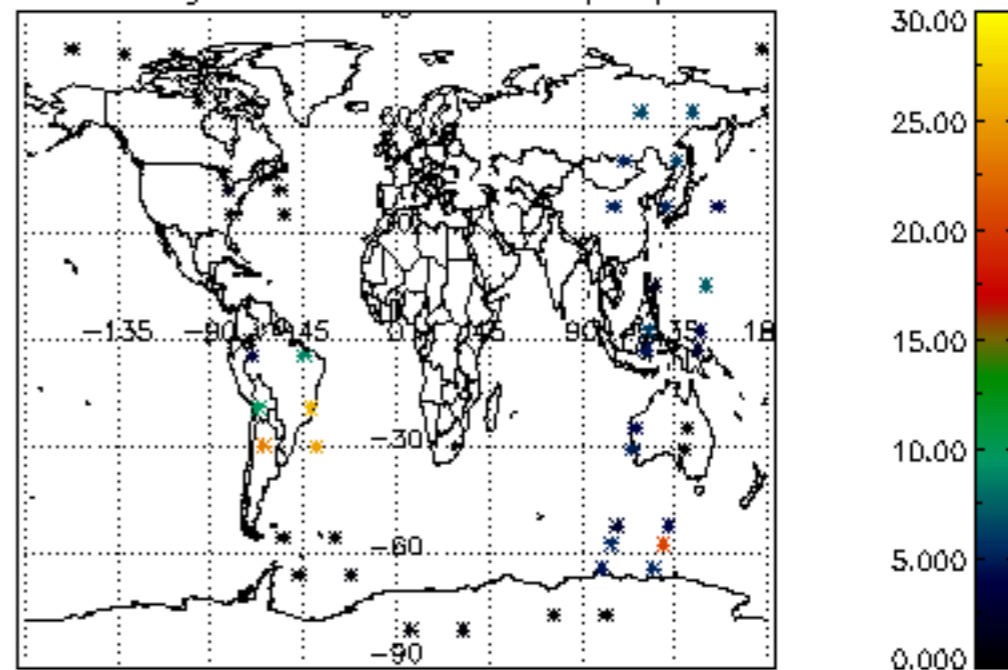
Percentage of datation errors per profile



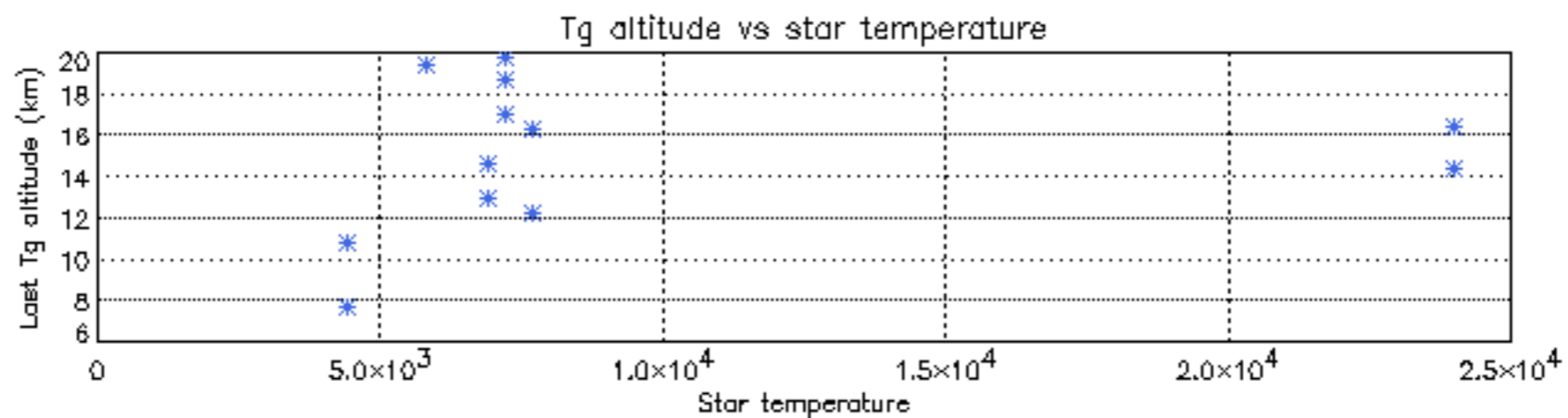
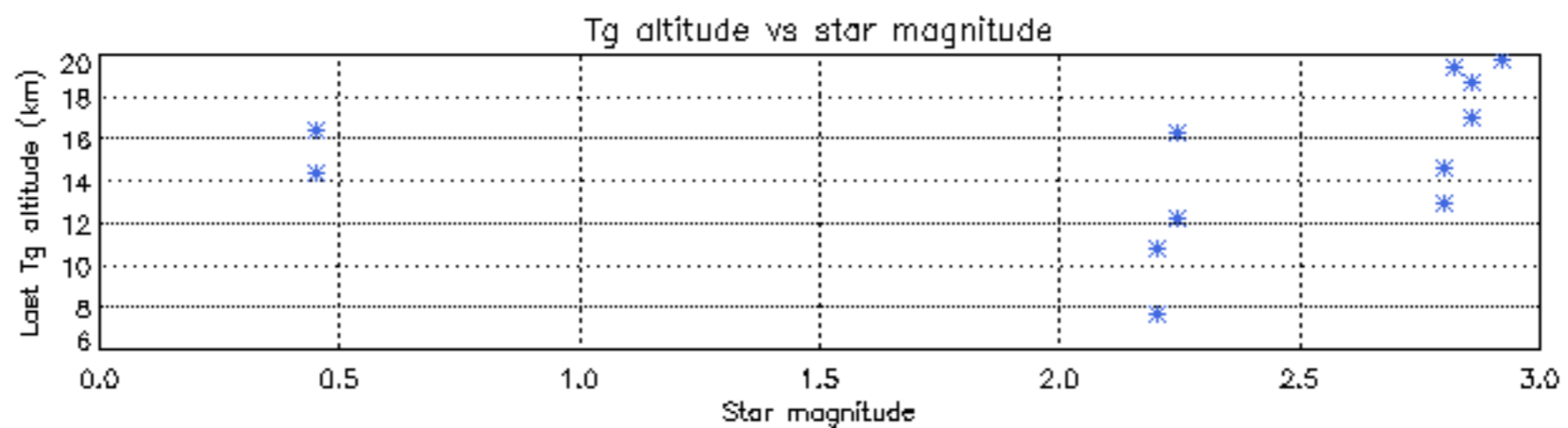
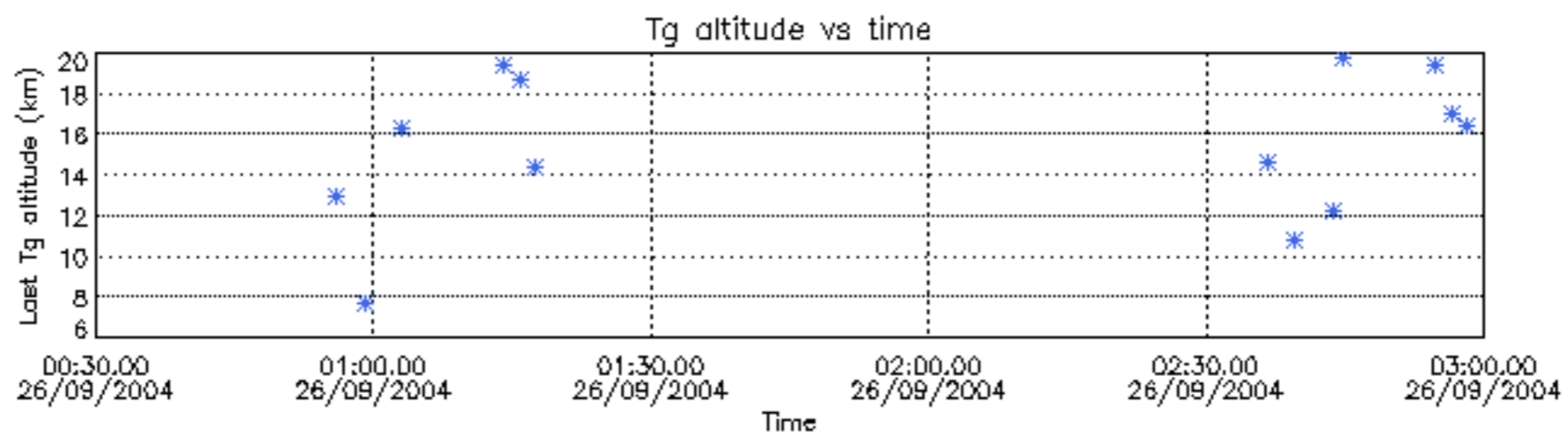
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

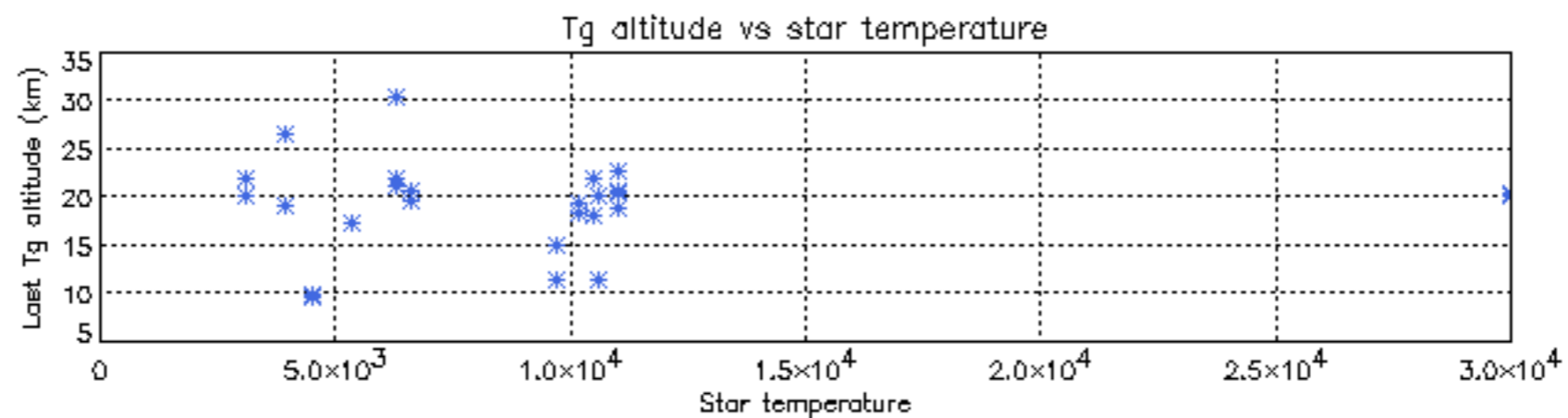
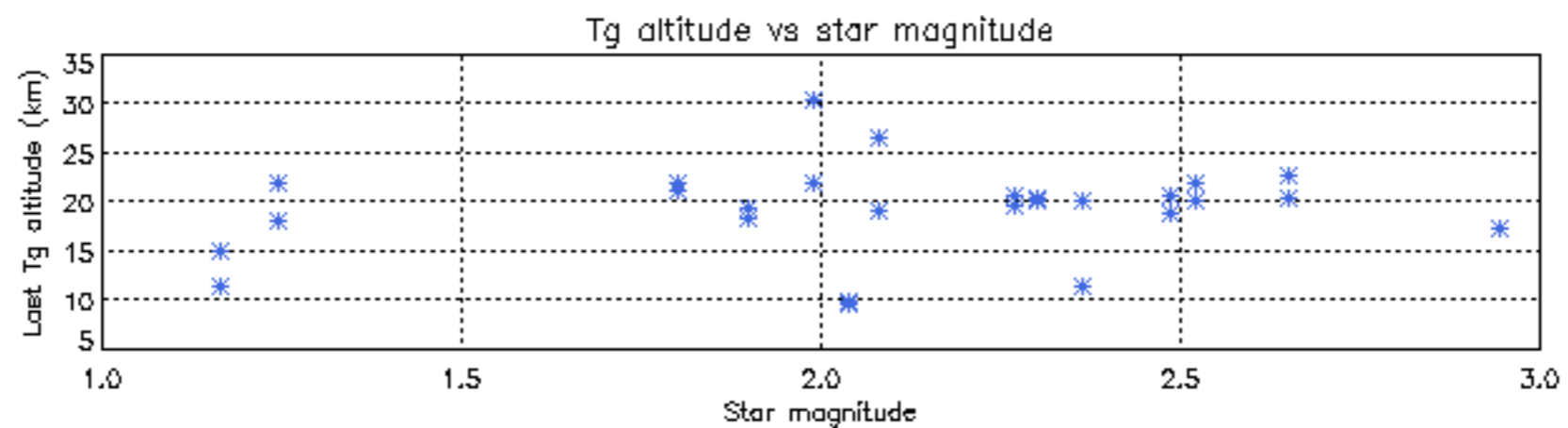
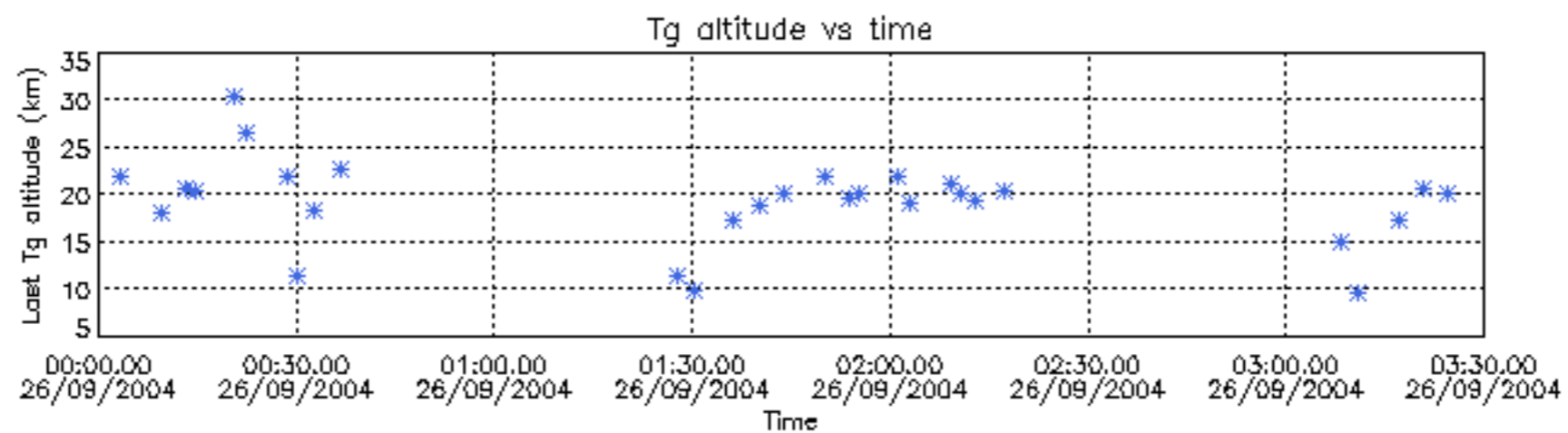


Tangent altitude at which the star is lost

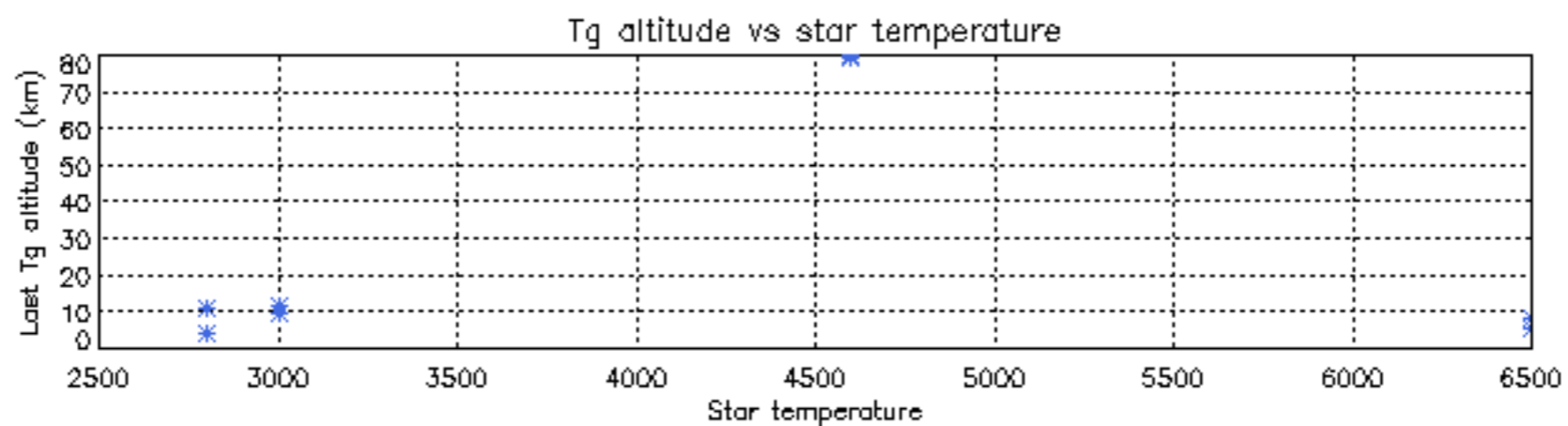
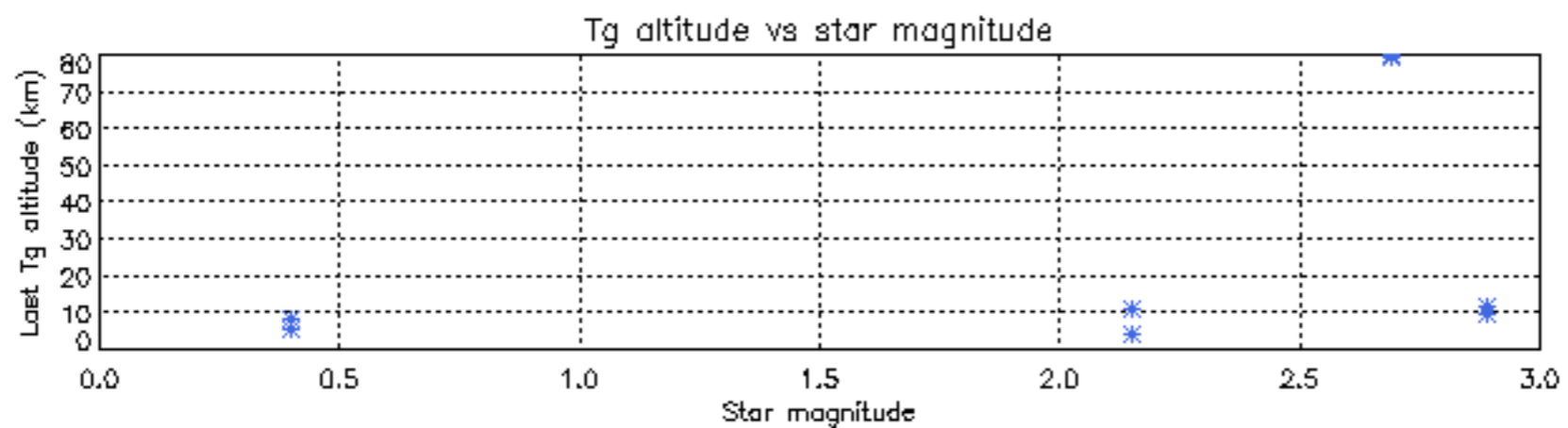
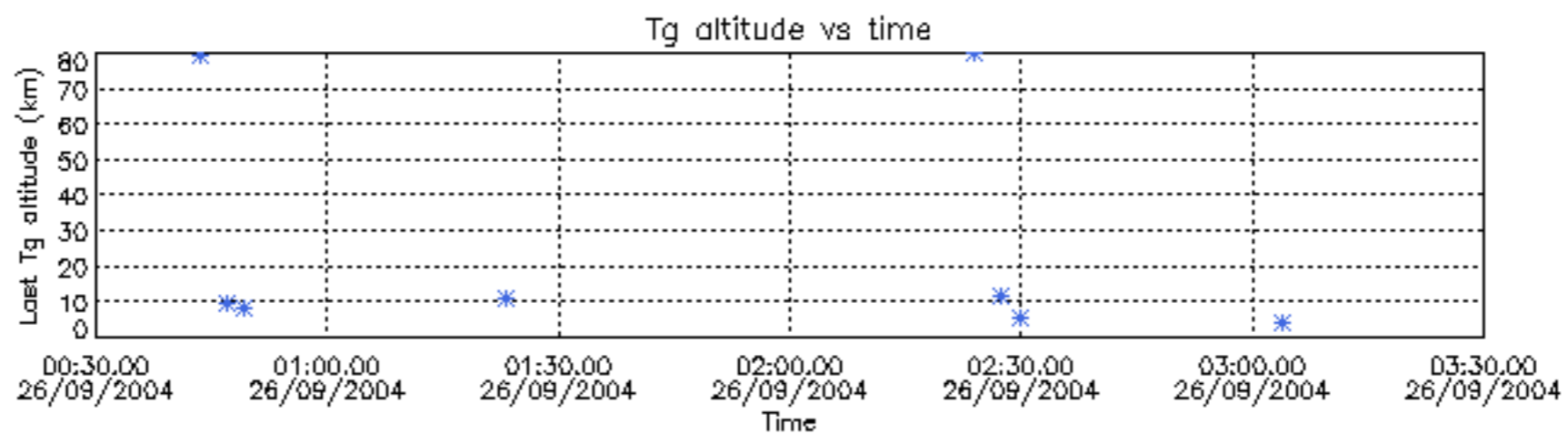




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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24;-203.5; 30-SEP-2004 20:41:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13523
25;-97.4; 30-SEP-2004 20:43:19; Dark ; 42.0; 46; De1 Vel ; 1.95; 10600;occ; 84; 0;13523
26; 306.1; 30-SEP-2004 20:50:02; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;13524
27; 602.6; 30-SEP-2004 20:54:58; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13524
28; 731.1; 30-SEP-2004 20:57:07; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13524
29; 816.0; 30-SEP-2004 20:58:32; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;13524
30; 913.9; 30-SEP-2004 21:00:10; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13524

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