

# GOMOS Daily Report 03-JUN-2004

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

[2.1 Level 0 products arrived in PCF during actual month \(see template here\)](#)

[2.2 Level 1 products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Statistics on SATU Noise Equivalent Angle](#)

## [Level 2 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	04JUN2004 08:55:06
Data source version	GOMOS/4.02
Start time of products	03-JUN-2004 (03JUN2004 00:00:00)
Stop time of products	04-JUN-2004 (04JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

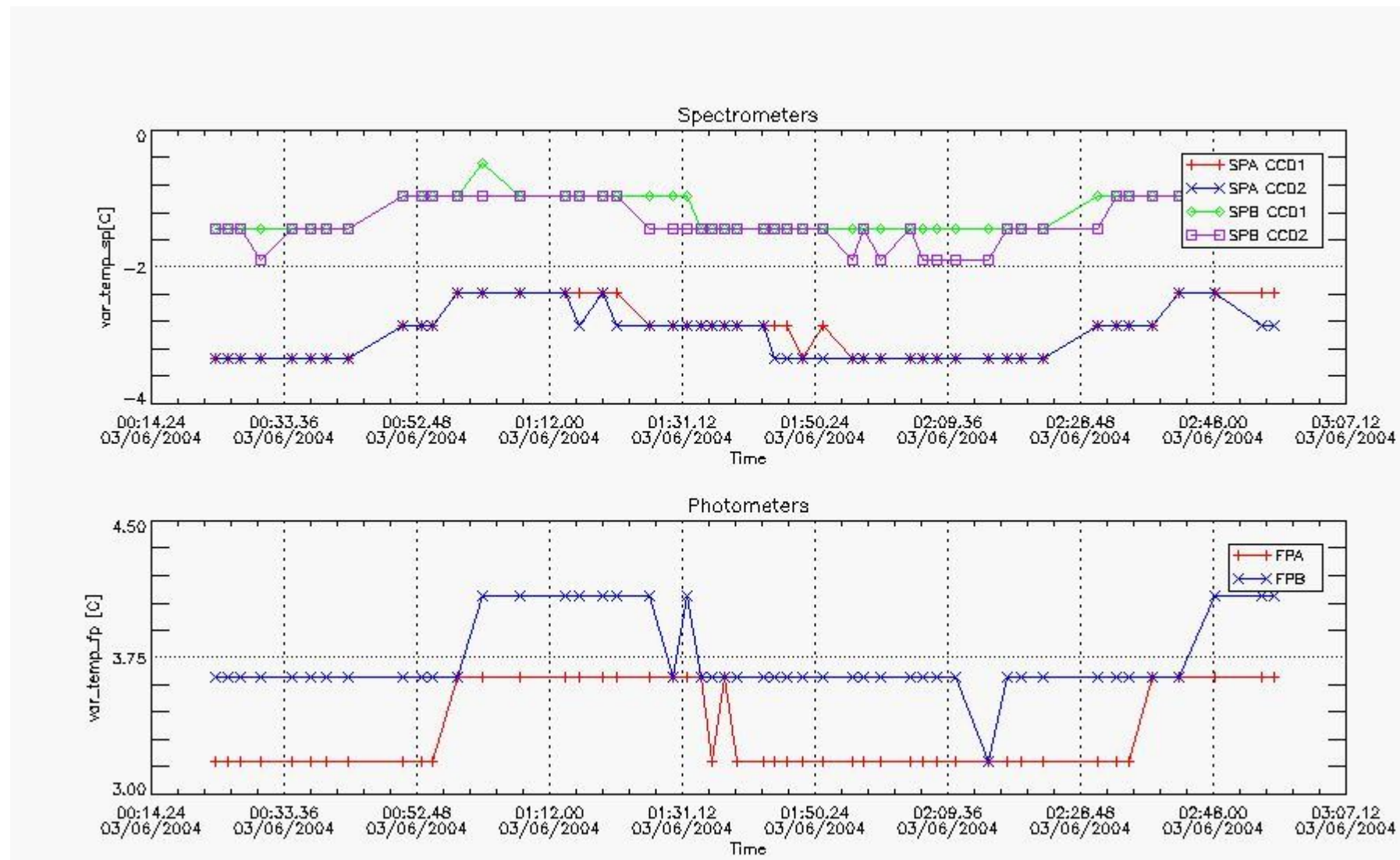
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040603_002336_000000402027_00231_11808_0000.N1	03-JUN-2004 00:23:36	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	11808	No
GOM_TRA_1PNPDE20040603_002527_000000402027_00231_11808_0001.N1	03-JUN-2004 00:25:27	Bright	40.000	55	79Zet UMa	2.0600	10200.	80	11808	No
GOM_TRA_1PNPDE20040603_002720_000000402027_00231_11808_0002.N1	03-JUN-2004 00:27:20	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	11808	No
GOM_TRA_1PNPDE20040603_003009_000000402027_00231_11808_0003.N1	03-JUN-2004 00:30:09	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	11808	No
GOM_TRA_1PNPDE20040603_003450_000000362027_00231_11808_0004.N1	03-JUN-2004 00:34:50	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	11808	No
GOM_TRA_1PNPDE20040603_003732_000000502027_00231_11808_0005.N1	03-JUN-2004 00:37:32	Bright	49.500	89	5Alp Cep	2.4510	8000.0	99	11808	No
GOM_TRA_1PNPDE20040603_003938_000000862027_00231_11808_0006.N1	03-JUN-2004 00:39:38	Bright	85.500	19	50Alp Cyg	1.2460	10500.	171	11808	No
GOM_TRA_1PNPDE20040603_004249_000000392027_00231_11808_0007.N1	03-JUN-2004 00:42:49	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	11808	No
GOM_TRA_1PNPDE20040603_005041_000000502027_00231_11808_0008.N1	03-JUN-2004 00:50:41	Twilight	49.500	53	43Bet And	2.0480	3300.0	99	11808	No
GOM_TRA_1PNPDE20040603_005326_000000602027_00231_11808_0009.N1	03-JUN-2004 00:53:26	Twilight	60.000	58	21Alp And	2.0730	11000.	120	11808	No
GOM_TRA_1PNPDE20040603_005507_000001092027_00231_11808_0010.N1	03-JUN-2004 00:55:07	Twilight	109.00	93	53Bet Peg	2.5200	3100.0	218	11808	No
GOM_TRA_1PNPDE20040603_005834_000000542027_00231_11808_0011.N1	03-JUN-2004 00:58:34	Dark	54.000	140	88Gam Peg	2.8340	26000.	108	11808	No
GOM_TRA_1PNPDE20040603_010223_000001002027_00231_11808_0012.N1	03-JUN-2004 01:02:23	Dark	100.00	90	54Alp Peg	2.4870	11000.	200	11808	No
GOM_TRA_1PNPDE20040603_010738_000000512027_00231_11808_0013.N1	03-JUN-2004 01:07:38	Dark	51.000	52	16Bet Cet	2.0370	4500.0	102	11808	No
GOM_TRA_1PNPDE20040603_011417_000000462027_00231_11808_0014.N1	03-JUN-2004 01:14:17	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	11808	No
GOM_TRA_1PNPDE20040603_011614_000000472027_00231_11808_0015.N1	03-JUN-2004 01:16:14	Dark	46.500	9	Alp Eri	0.45300	24000.	93	11808	No
GOM_TRA_1PNPDE20040603_011947_000000622027_00232_11809_0016.N1	03-JUN-2004 01:19:47	Dark	61.500	63	Bet Gru	2.1500	2800.0	123	11809	No
GOM_TRA_1PNPDE20040603_012141_000000492027_00232_11809_0017.N1	03-JUN-2004 01:21:41	Dark	49.000	31	Alp Gru	1.7340	15200.	98	11809	No
GOM_TRA_1PNPDE20040603_012630_000000442027_00232_11809_0018.N1	03-JUN-2004 01:26:30	Dark	44.000	45	Alp Pav	1.9400	26000.	88	11809	No
GOM_TRA_1PNPDE20040603_012953_000000522027_00232_11809_0019.N1	03-JUN-2004 01:29:53	Twilight	52.000	43	Alp TrA	1.9100	4250.0	104	11809	No
GOM_TRA_1PNPDE20040603_013157_000000392027_00232_11809_0020.N1	03-JUN-2004 01:31:57	Twilight	38.500	134	Bet TrA	2.8100	6600.0	77	11809	No
GOM_TRA_1PNPDE20040603_013349_000000432027_00232_11809_0021.N1	03-JUN-2004 01:33:49	Bright	43.000	147	Alp Ara	2.8770	26000.	86	11809	No
GOM_TRA_1PNPDE20040603_013531_000000482027_00232_11809_0022.N1	03-JUN-2004 01:35:31	Bright	47.500	40	The Sco	1.8590	7100.0	95	11809	No
GOM_TRA_1PNPDE20040603_013718_000000512027_00232_11809_0023.N1	03-JUN-2004 01:37:18	Bright	50.500	25	35Lam Sco	1.6200	28000.	101	11809	No
GOM_TRA_1PNPDE20040603_013901_000000482027_00232_11809_0024.N1	03-JUN-2004 01:39:01	Bright	48.000	75	26Eps Sco	2.2910	4250.0	96	11809	No
GOM_TRA_1PNPDE20040603_014303_000000422027_00232_11809_0000.N1	03-JUN-2004 01:43:03	Bright	42.000	80	7Del Sco	2.3160	30000.	84	11809	No
GOM_TRA_1PNPDE20040603_014434_000000462027_00232_11809_0001.N1	03-JUN-2004 01:44:34	Bright	46.000	86	35Eta Oph	2.4300	10200.	92	11809	No
GOM_TRA_1PNPDE20040603_014624_000000432027_00232_11809_0002.N1	03-JUN-2004 01:46:24	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	11809	No
GOM_TRA_1PNPDE20040603_014833_000000412027_00232_11809_0003.N1	03-JUN-2004 01:48:33	Bright	41.000	120	1Del Oph	2.7340	3200.0	82	11809	No
GOM_TRA_1PNPDE20040603_015134_000000382027_00232_11809_0004.N1	03-JUN-2004 01:51:34	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	11809	No
GOM_TRA_1PNPDE20040603_015544_000000382027_00232_11809_0005.N1	03-JUN-2004 01:55:44	Bright	37.500	3	16Alp Boo	-0.050000	4250.0	75	11809	No
GOM_TRA_1PNPDE20040603_015726_000000392027_00232_11809_0006.N1	03-JUN-2004 01:57:26	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	11809	No
GOM_TRA_1PNPDE20040603_015953_000000442027_00232_11809_0007.N1	03-JUN-2004 01:59:53	Bright	44.000	133	40Zet Her	2.8070	6000.0	88	11809	No
GOM_TRA_1PNPDE20040603_020414_000000402027_00232_11809_0008.N1	03-JUN-2004 02:04:14	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	11809	No
GOM_TRA_1PNPDE20040603_020604_000000392027_00232_11809_0009.N1	03-JUN-2004 02:06:04	Bright	38.500	55	79Zet UMa	2.0600	10200.	77	11809	No
GOM_TRA_1PNPDE20040603_020756_000000382027_00232_11809_0010.N1	03-JUN-2004 02:07:56	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	11809	No
GOM_TRA_1PNPDE20040603_021045_000000342027_00232_11809_0011.N1	03-JUN-2004 02:10:45	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	11809	No
GOM_TRA_1PNPDE20040603_021526_000000362027_00232_11809_0012.N1	03-JUN-2004 02:15:26	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	11809	No
GOM_TRA_1PNPDE20040603_021808_000000492027_00232_11809_0013.N1	03-JUN-2004 02:18:08	Bright	49.000	89	5Alp Cep	2.4510	8000.0	98	11809	No
GOM_TRA_1PNPDE20040603_022012_000000872027_00232_11809_0014.N1	03-JUN-2004 02:20:12	Bright	86.500	19	50Alp Cyg	1.2460	10500.	173	11809	No
GOM_TRA_1PNPDE20040603_022325_000000402027_00232_11809_0015.N1	03-JUN-2004 02:23:25	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	11809	No
GOM_TRA_1PNPDE20040603_023118_000000482027_00232_11809_0016.N1	03-JUN-2004 02:31:18	Twilight	48.000	53	43Bet And	2.0480	3300.0	96	11809	No
GOM_TRA_1PNPDE20040603_023401_000000612027_00232_11809_0017.N1	03-JUN-2004 02:34:01	Twilight	60.500	58	21Alp And	2.0730	11000.	121	11809	No
GOM_TRA_1PNPDE20040603_023543_000000962027_00232_11809_0018.N1	03-JUN-2004 02:35:43	Twilight	95.500	93	53Bet Peg	2.5200	3100.0	191	11809	No
GOM_TRA_1PNPDE20040603_023911_000000572027_00232_11809_0019.N1	03-JUN-2004 02:39:11	Dark	56.500	140	88Gam Peg	2.8340	26000.	113	11809	No
GOM_TRA_1PNPDE20040603_024300_000001012027_00232_11809_0020.N1	03-JUN-2004 02:43:00	Dark	101.00	90	54Alp Peg	2.4870	11000.	202	11809	No
GOM_TRA_1PNPDE20040603_024815_000000502027_00232_11809_0021.N1	03-JUN-2004 02:48:15	Dark	49.500	52	16Bet Cet	2.0370	4500.0	99	11809	No
GOM_TRA_1PNPDE20040603_025454_000000472027_00232_11809_0022.N1	03-JUN-2004 02:54:54	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	11809	No
GOM_TRA_1PNPDE20040603_025651_000000442027_00232_11809_0023.N1	03-JUN-2004 02:56:51	Dark	43.500	9	Alp Eri	0.45300	24000.	87	11809	No

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



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

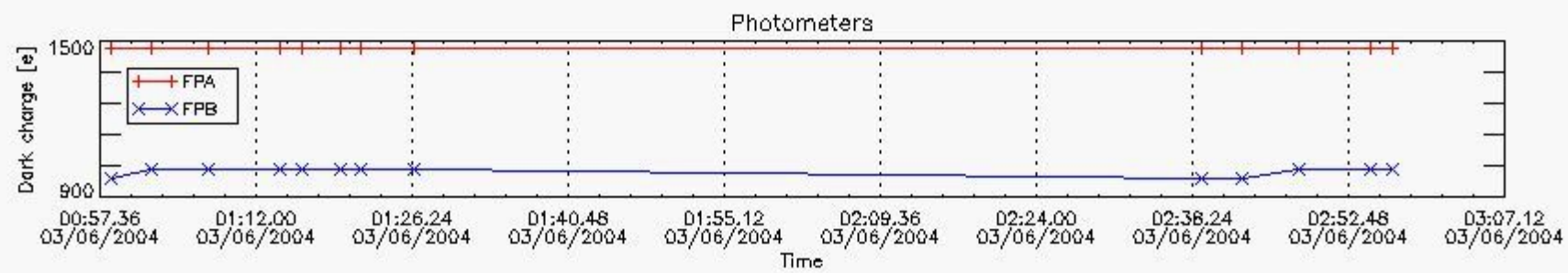
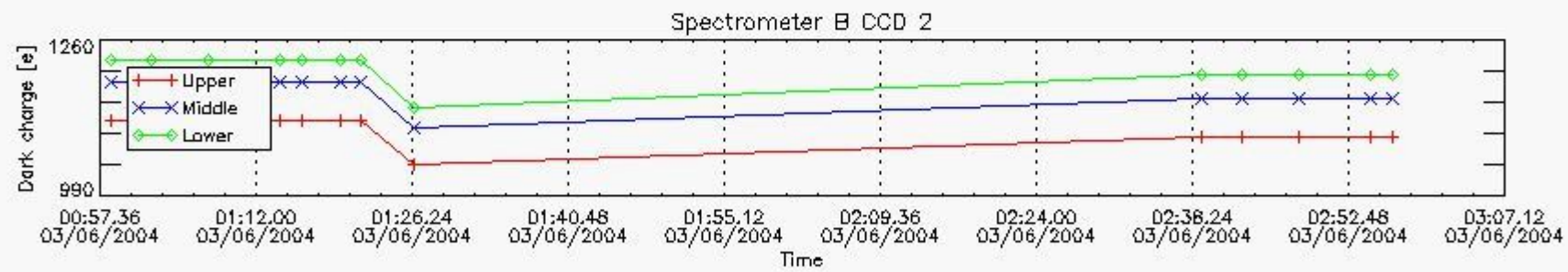
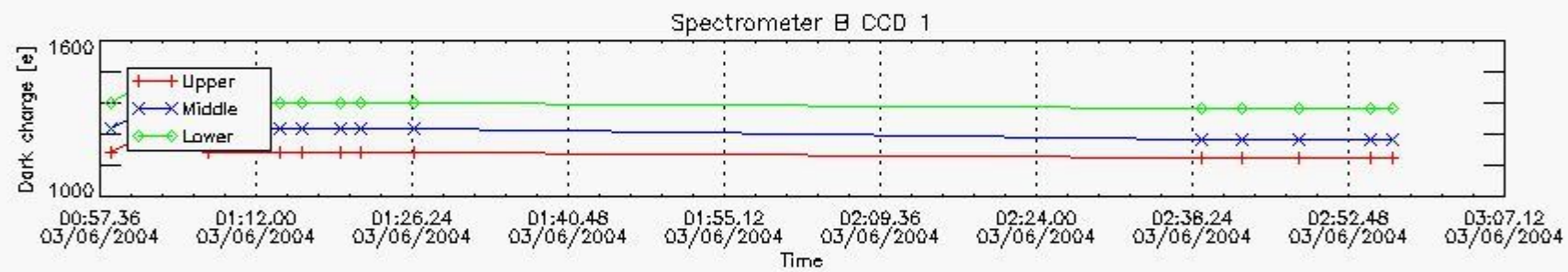
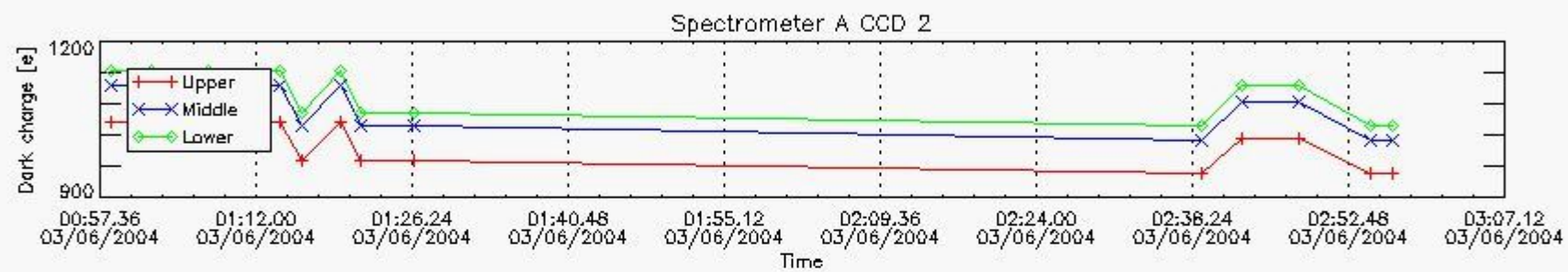
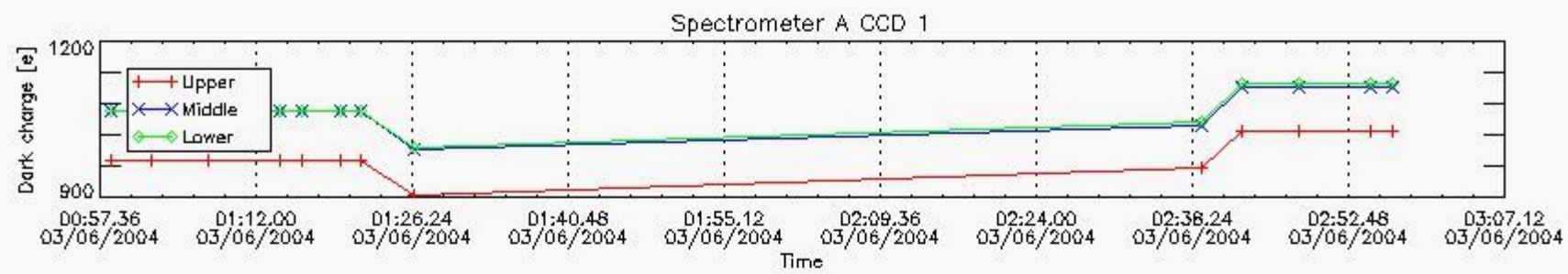
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





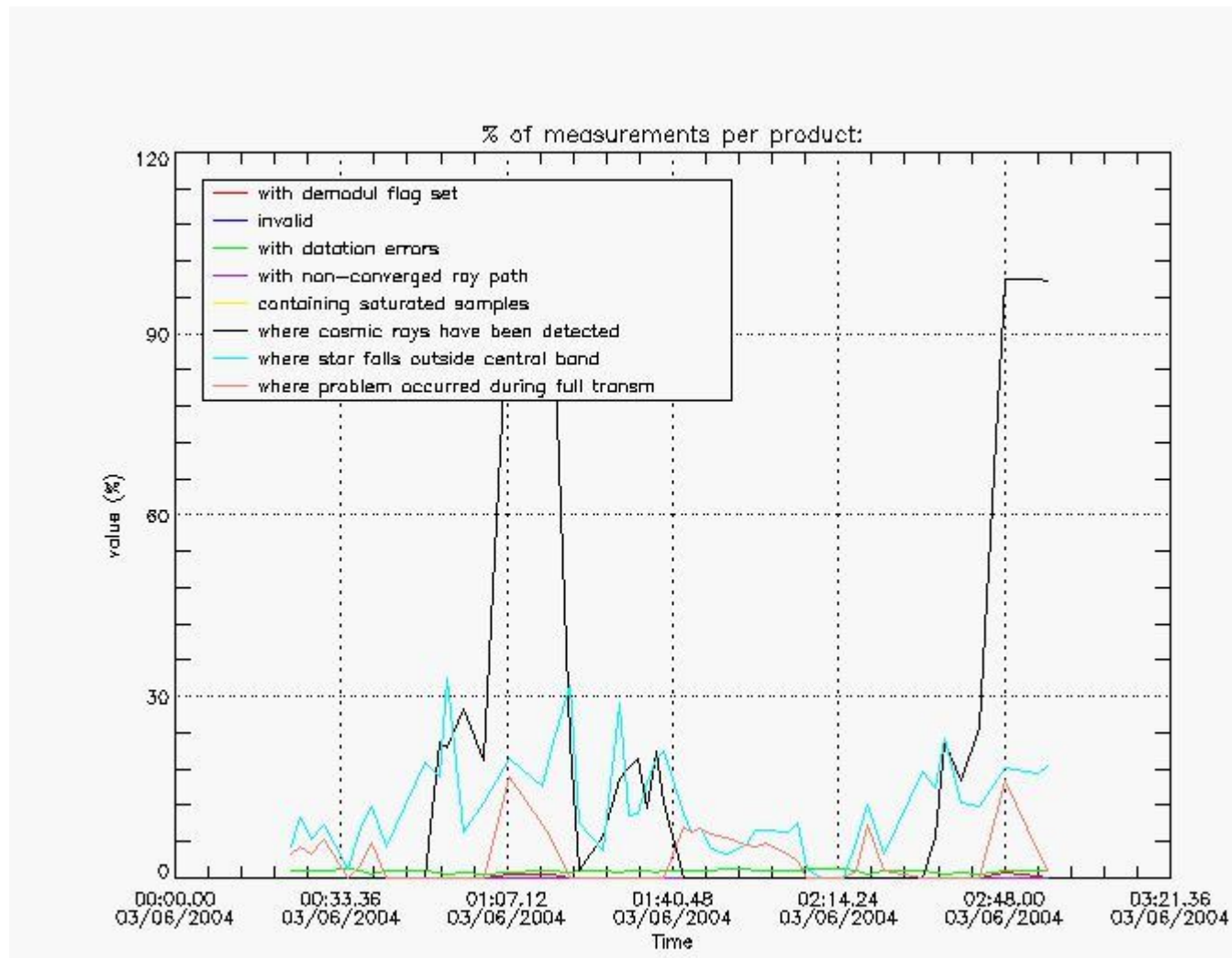
## 5. Demodulation flag and quality information monitoring

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:	14.2857 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

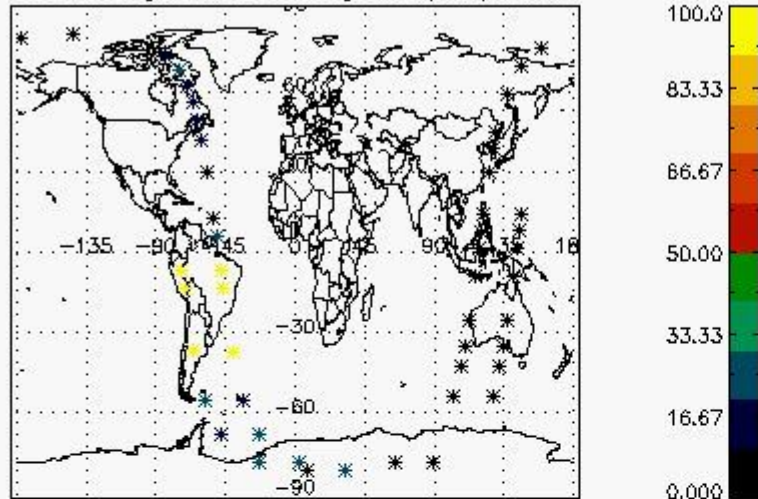
5.2 Plot quality information per product (time dependant)



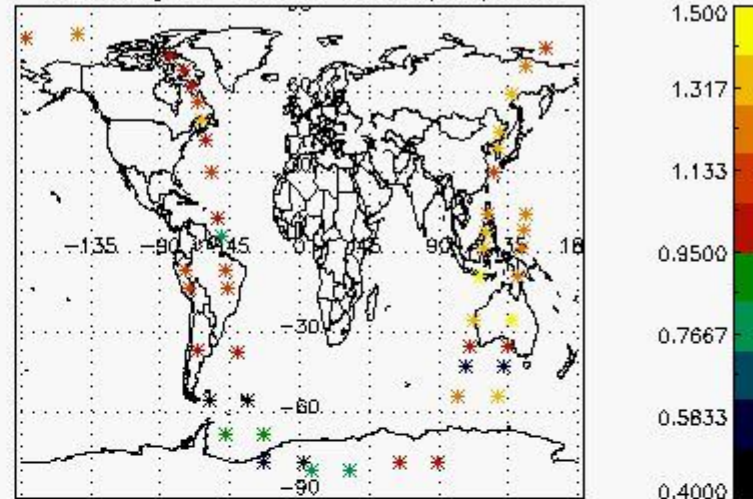
5.3 Plot quality information per product (world map)



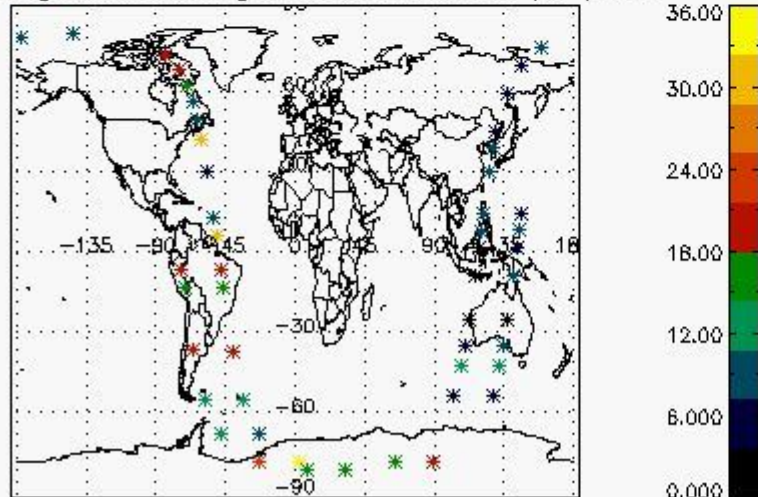
Percentage of cosmic ray hits per profile



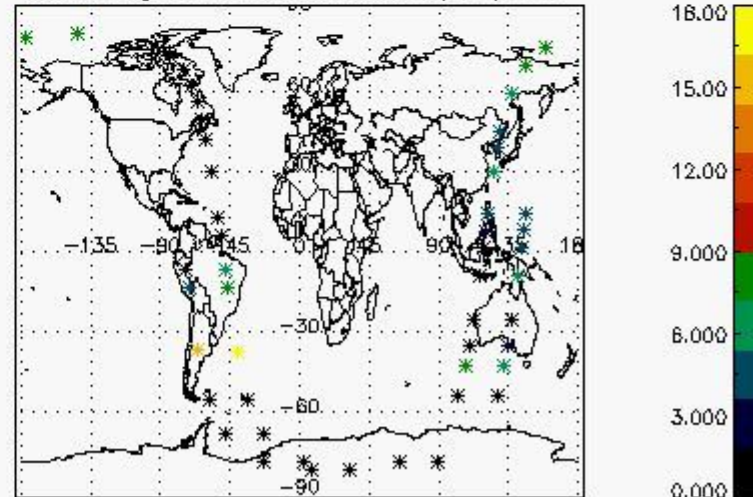
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



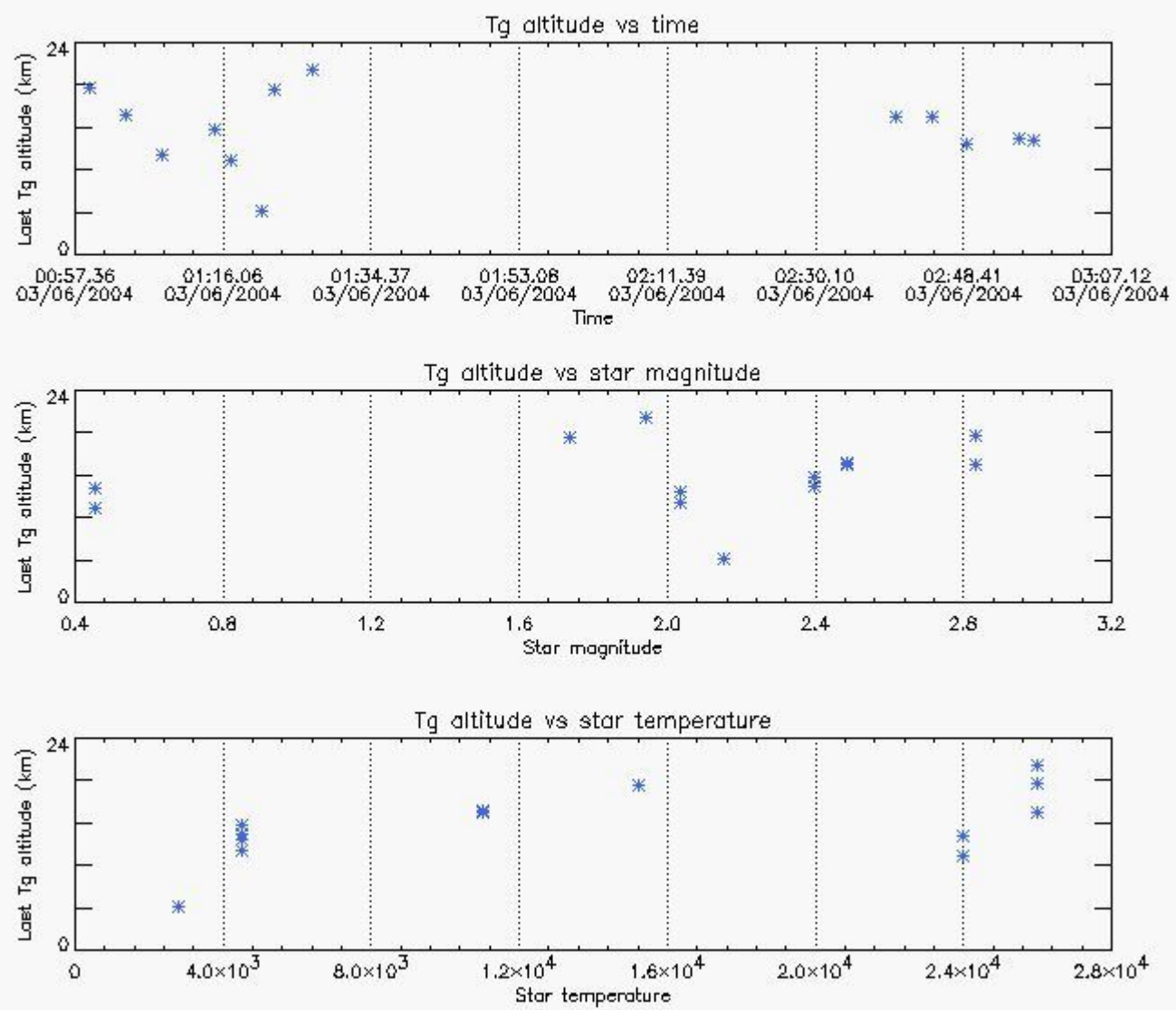
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.251	20.238	11.202
St. deviation:	4.1366	4.2884	4.4143
Maximum:	20.999	29.392	19.042
Minimum:	5.0241	11.293	5.3029
Number of data:	13.000	28.000	8.0000

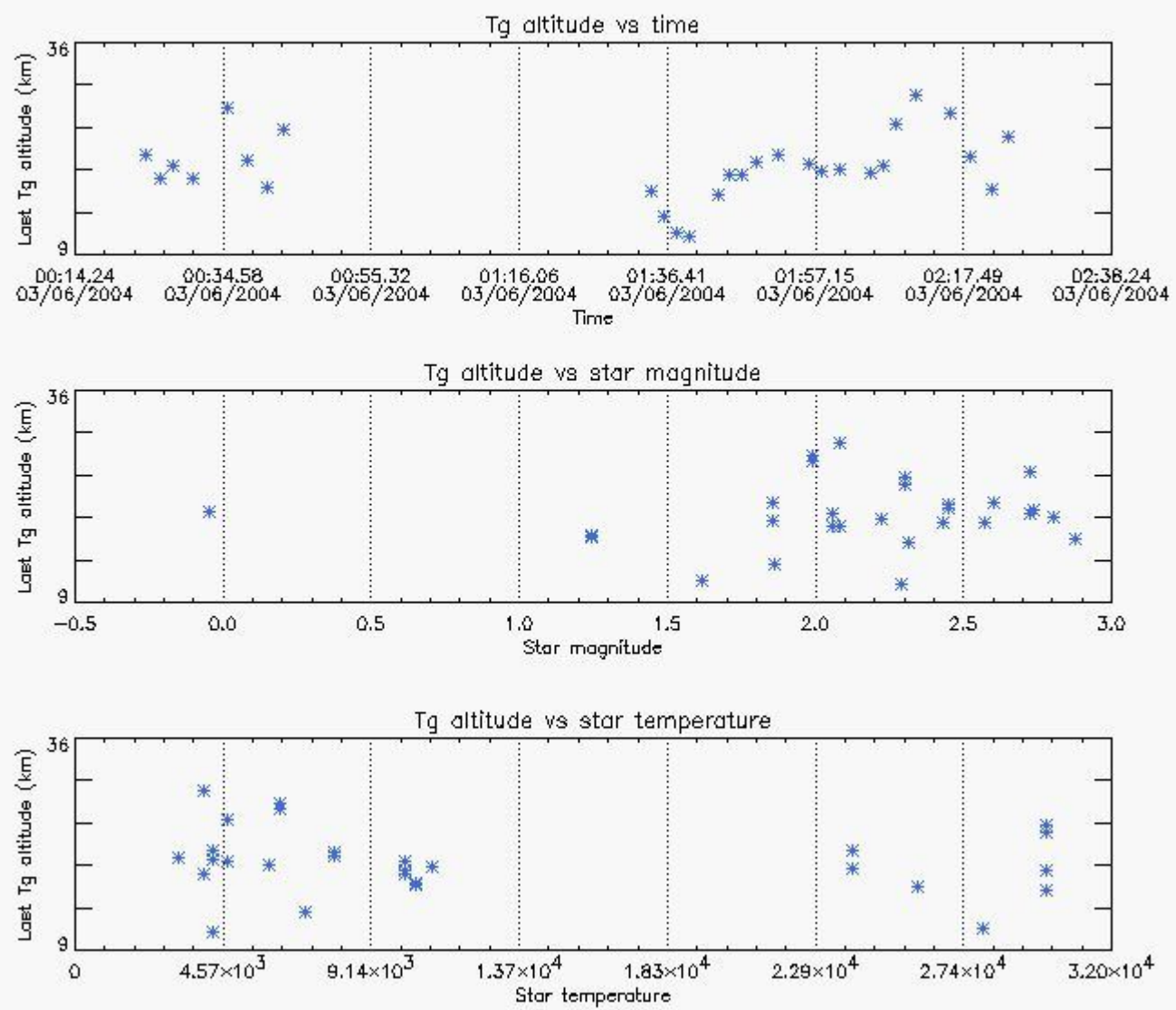
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

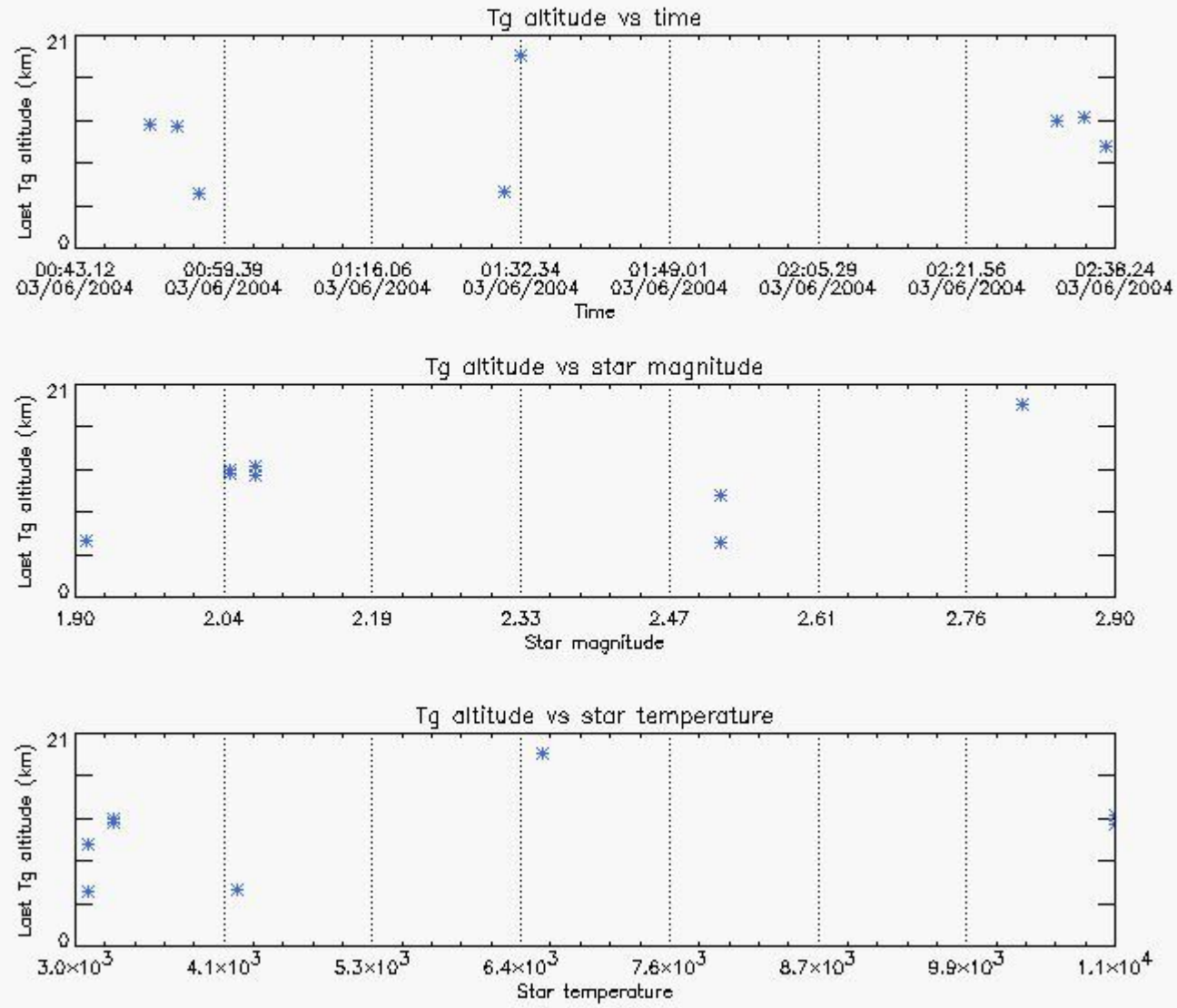
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



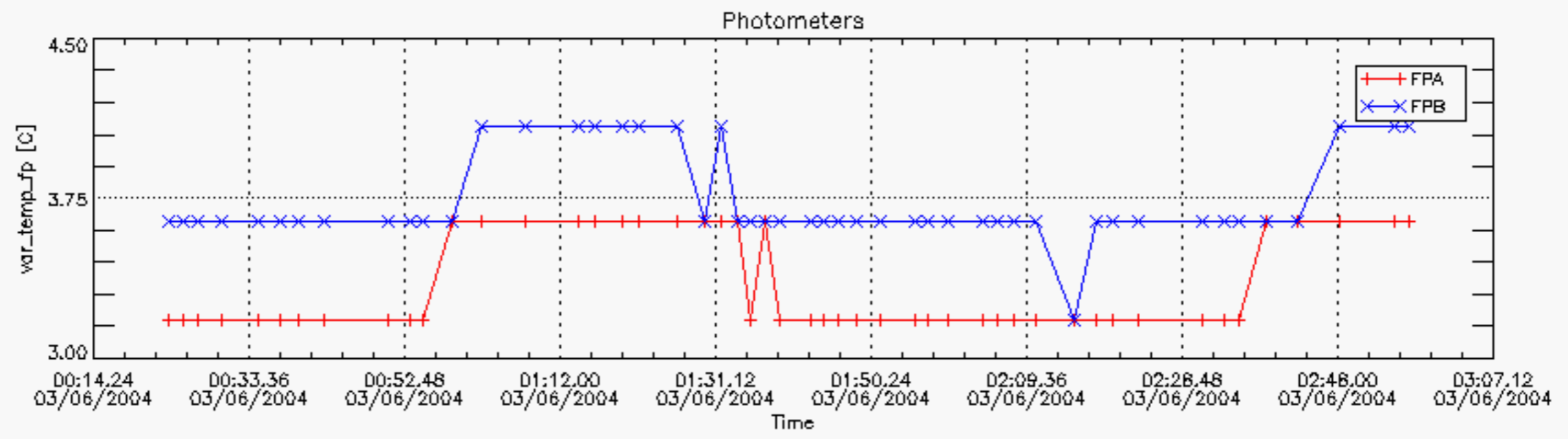
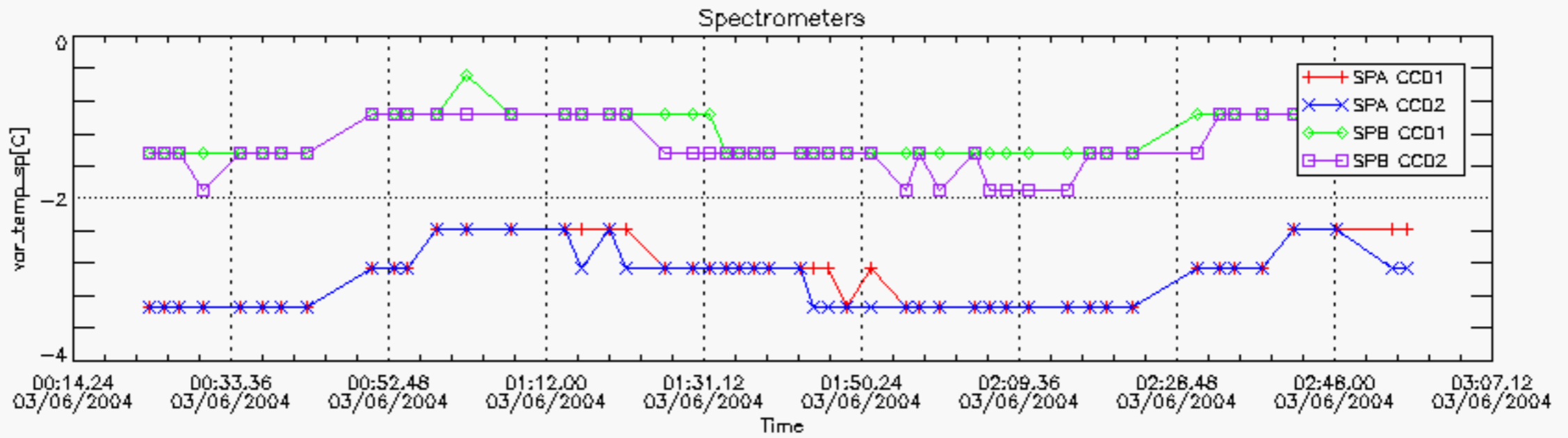
Tangent altitude at which the star is lost

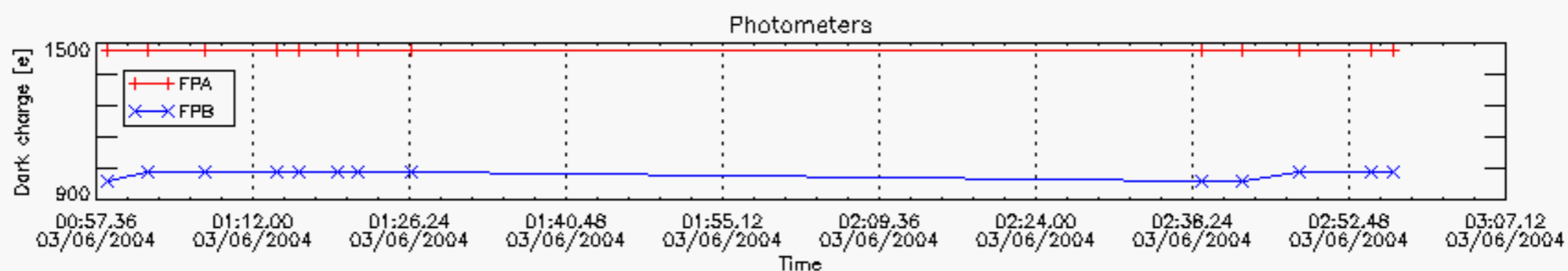
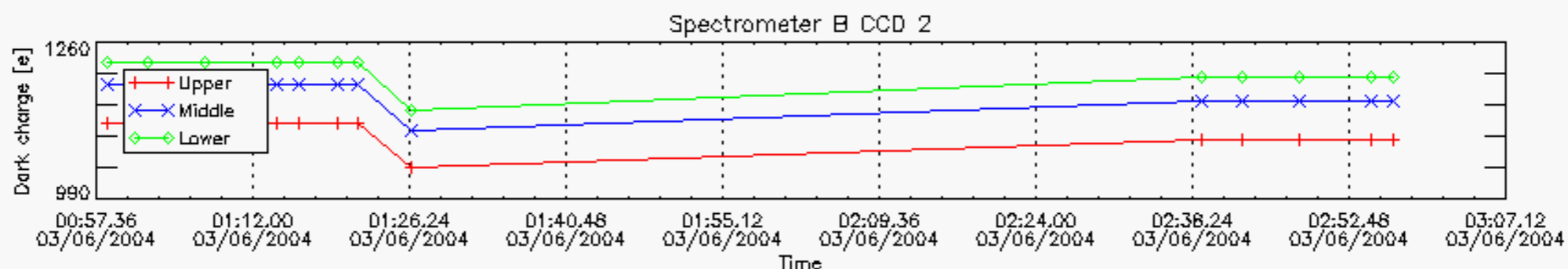
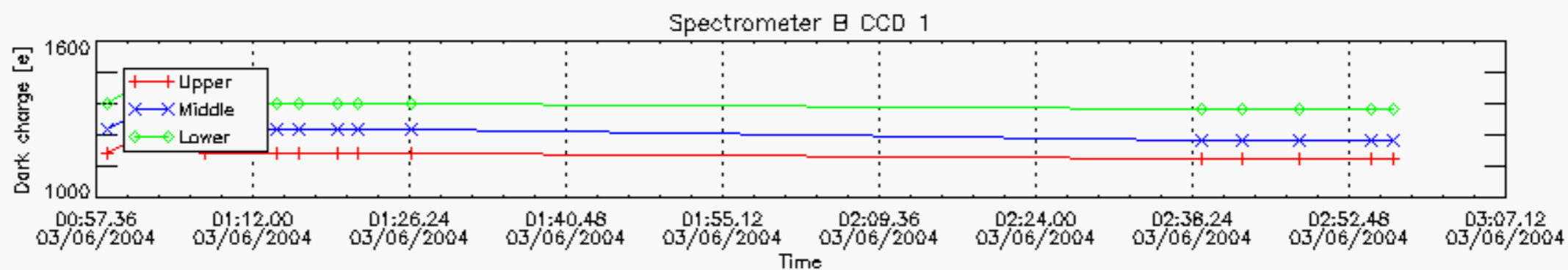
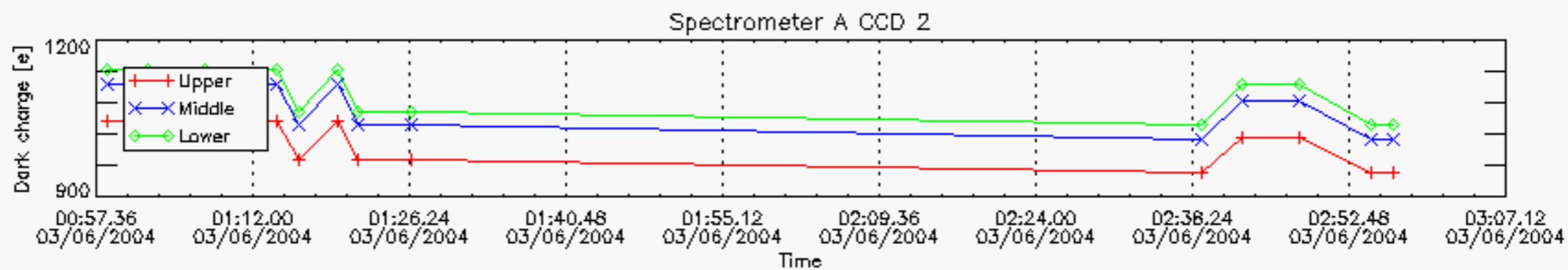
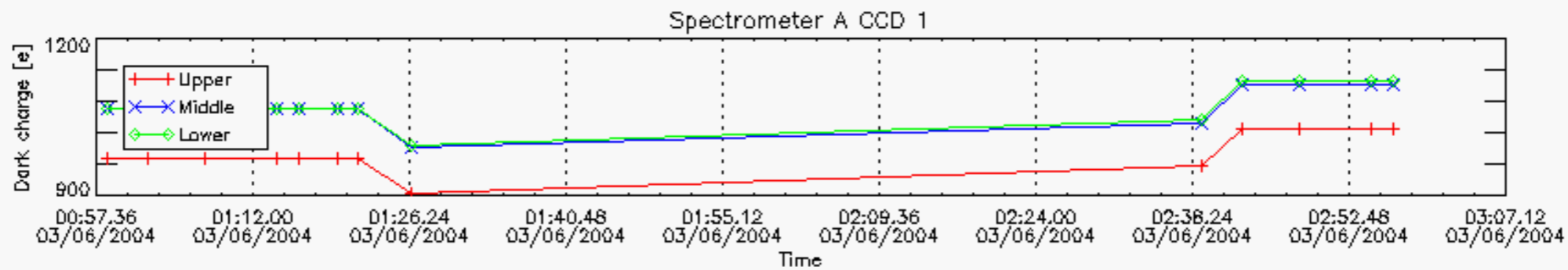


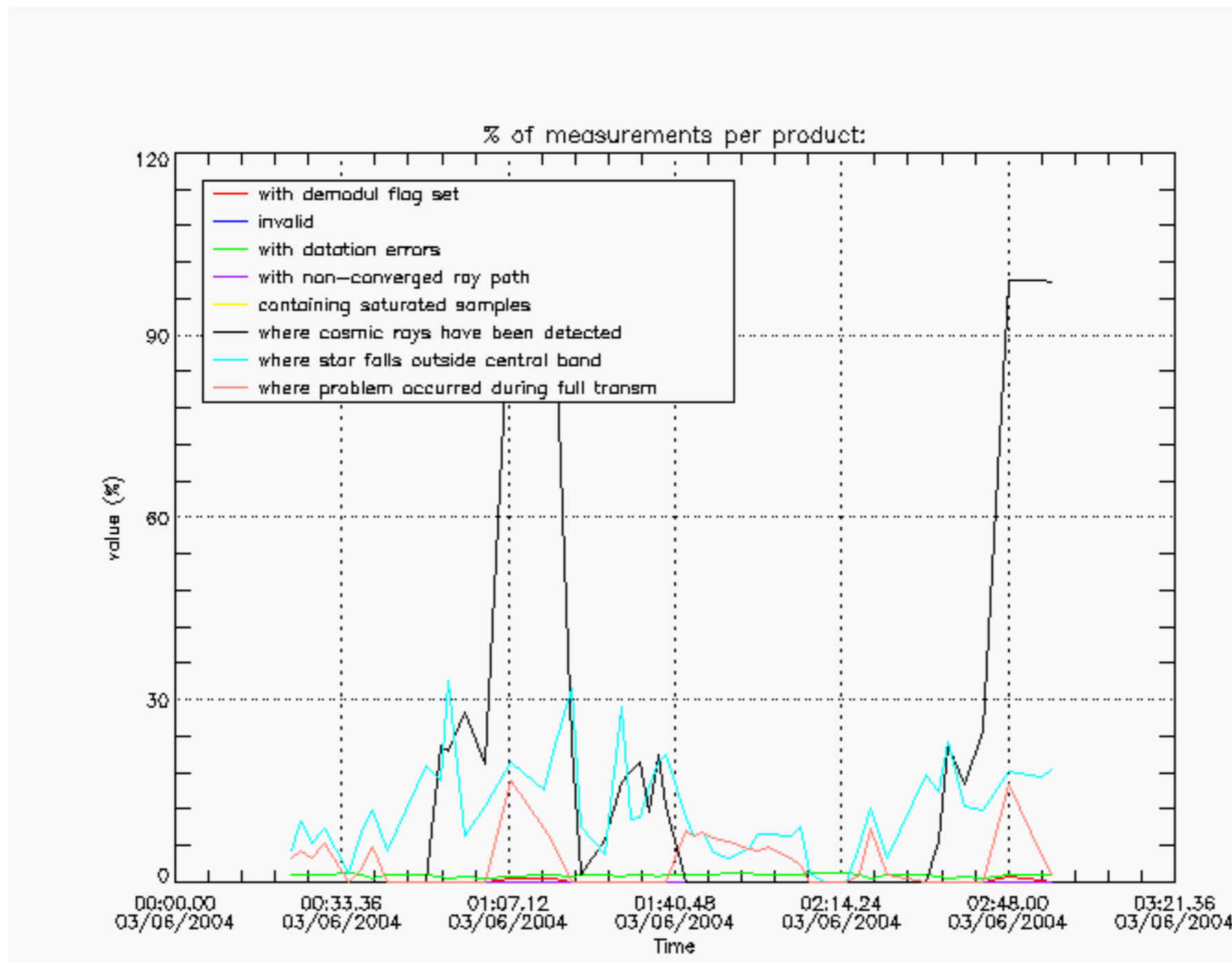
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1462.1	1449.0	1461.7	1446.8
St. deviation:	5.3040	6.8377	6.2208	7.3600
Maximum:	1518.0	1501.0	1509.0	1484.0
Minimum:	1450.0	1428.0	1437.0	1421.0
Number of data:	18500.	18500.	33050.	33050.

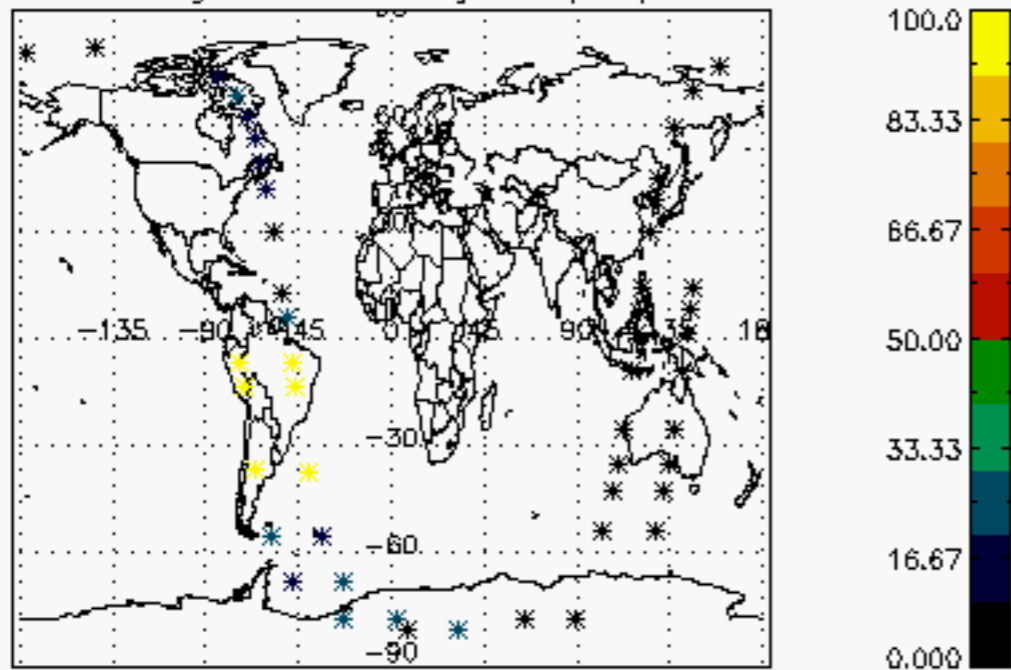




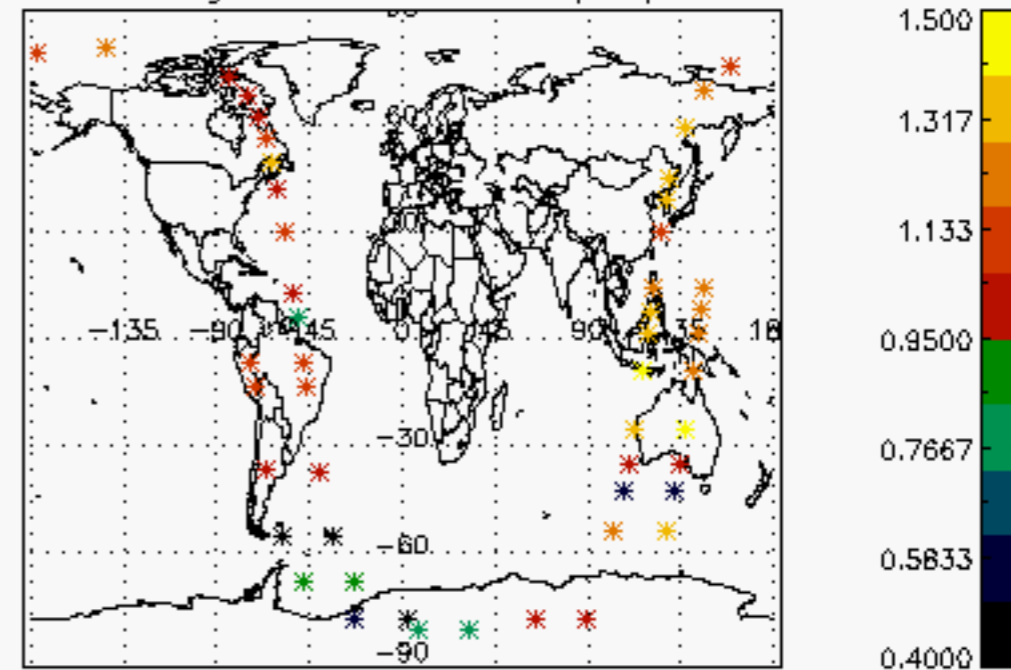




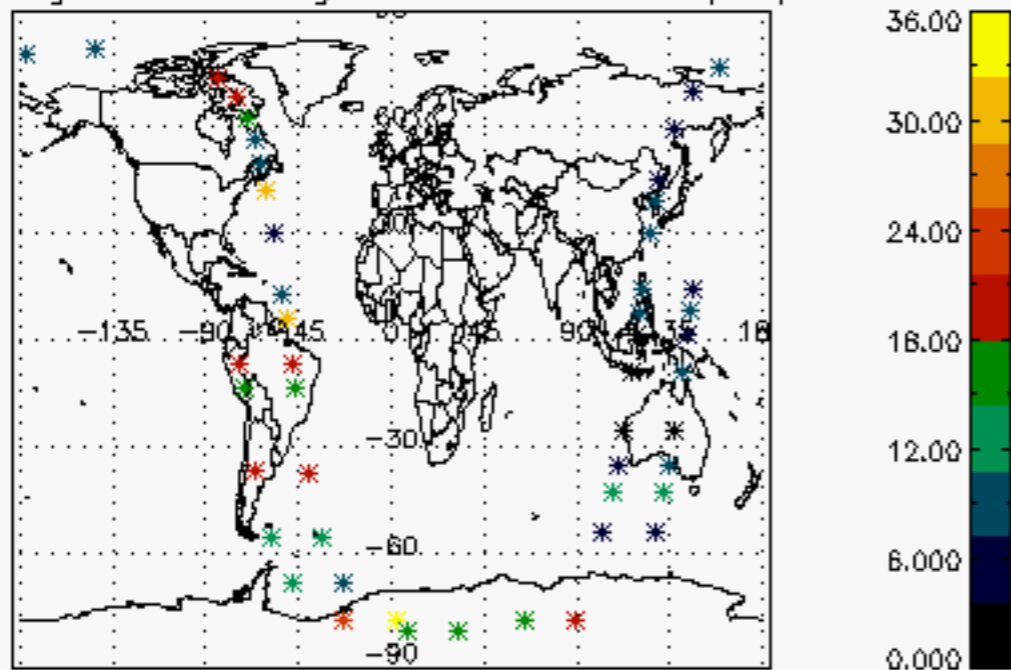
Percentage of cosmic ray hits per profile



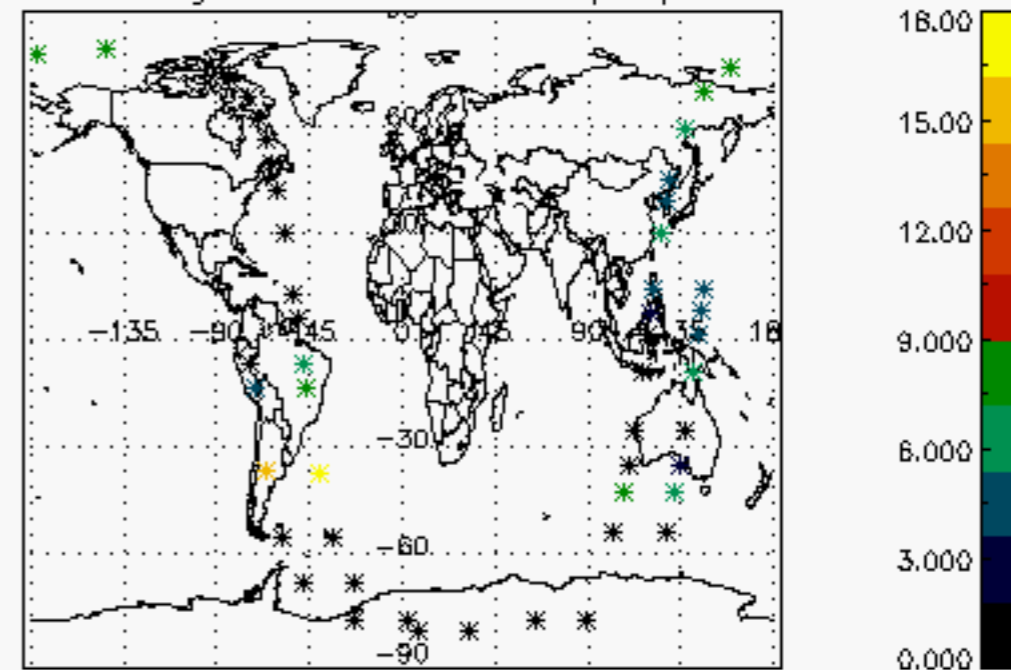
Percentage of datation errors per profile



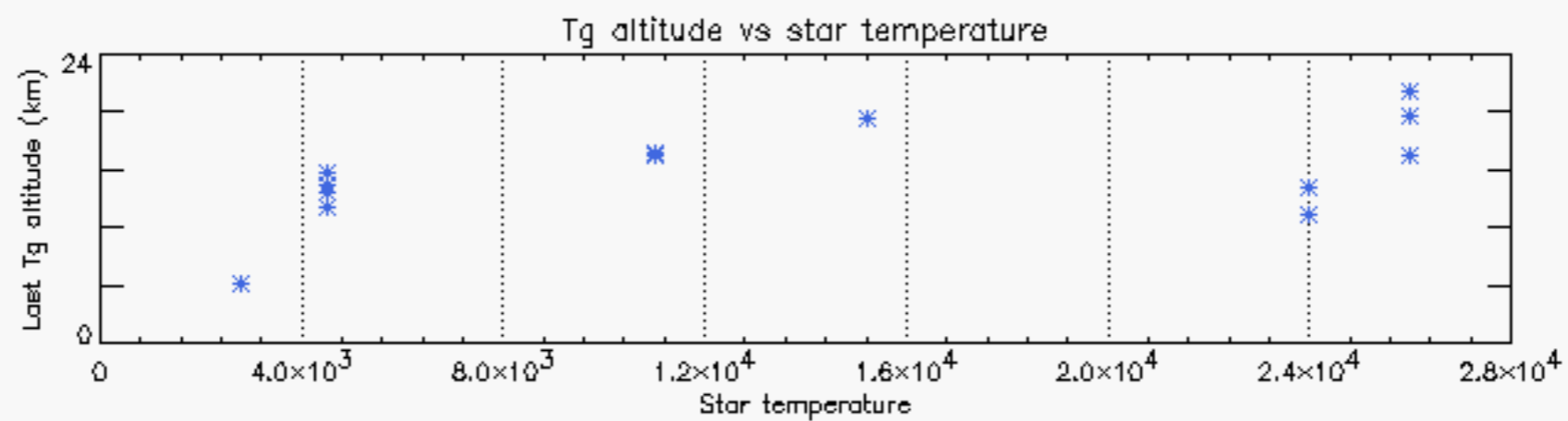
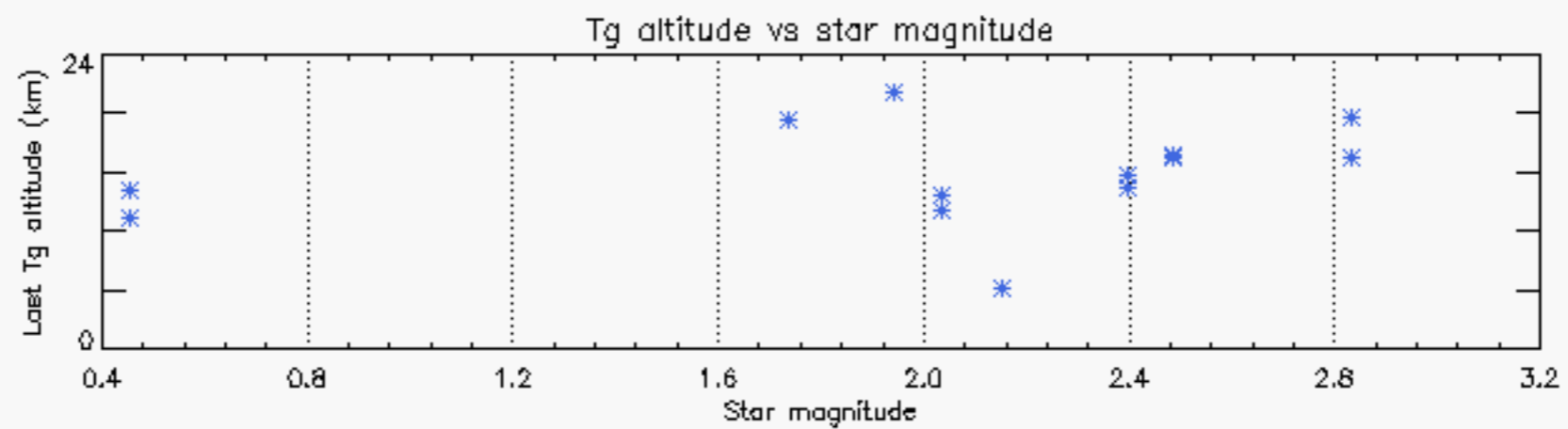
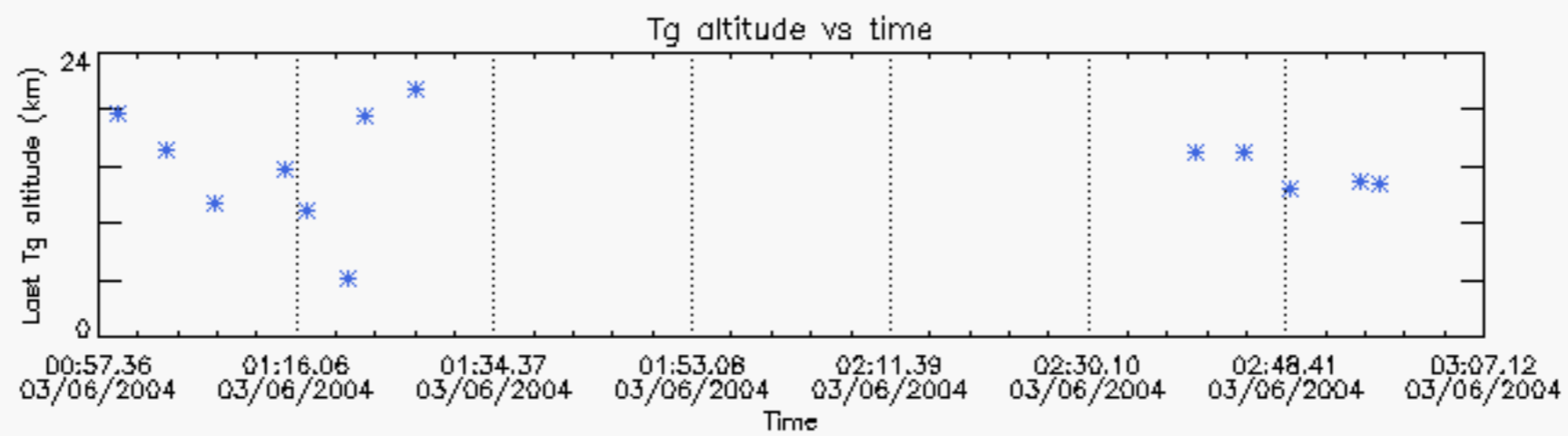
Percentage of star falling outside central band per profile



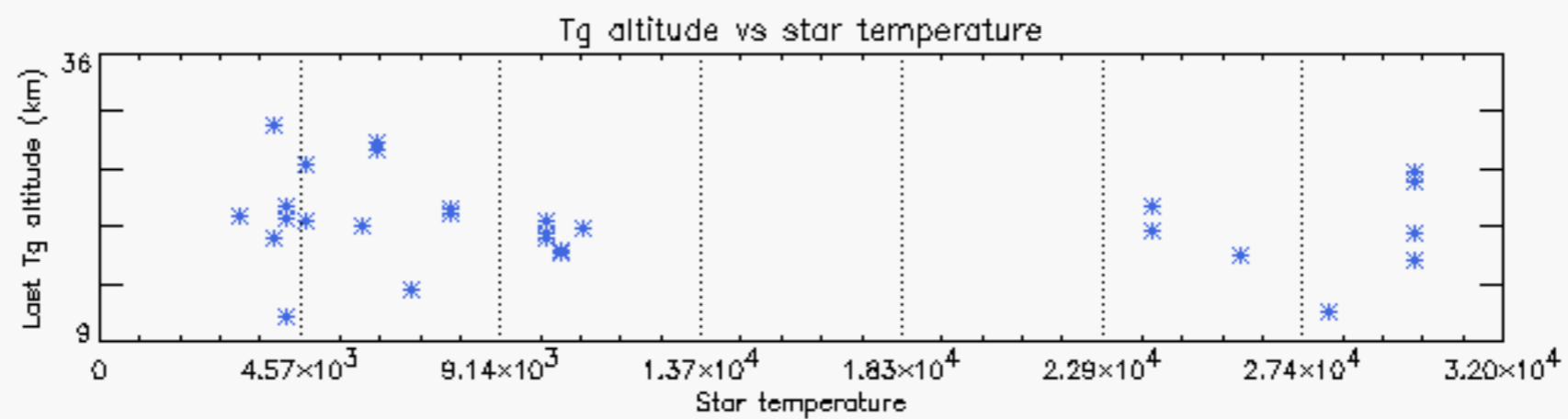
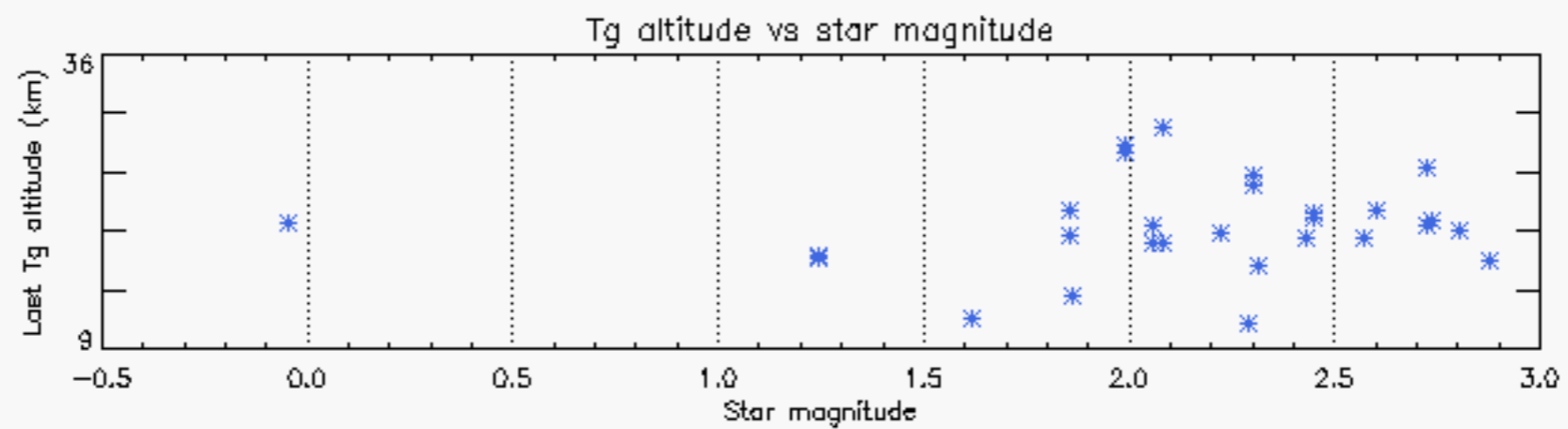
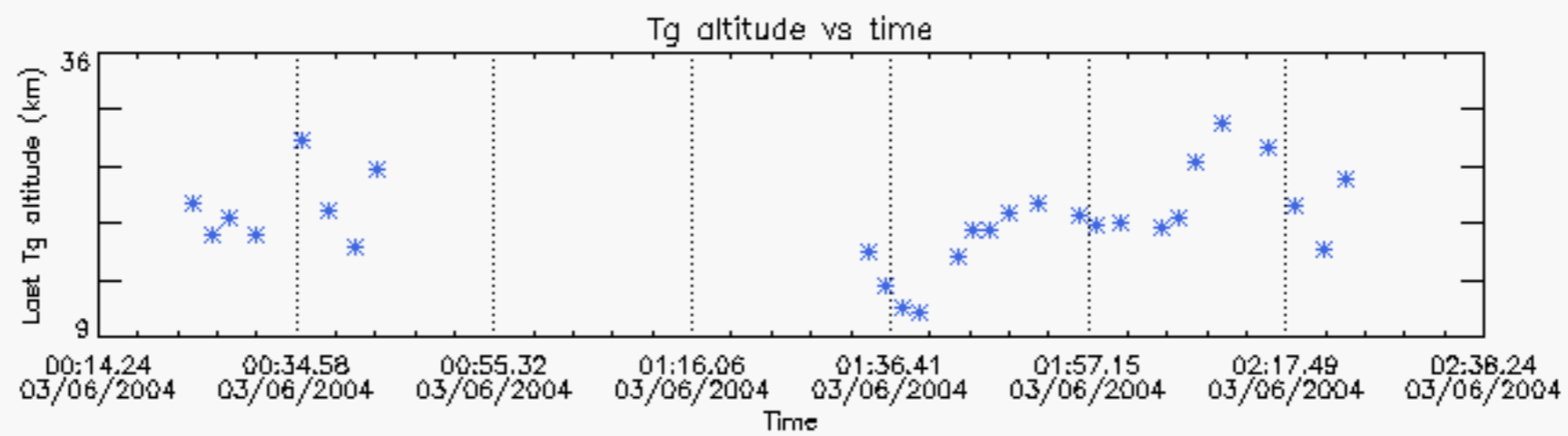
Percentage of saturation errors per profile



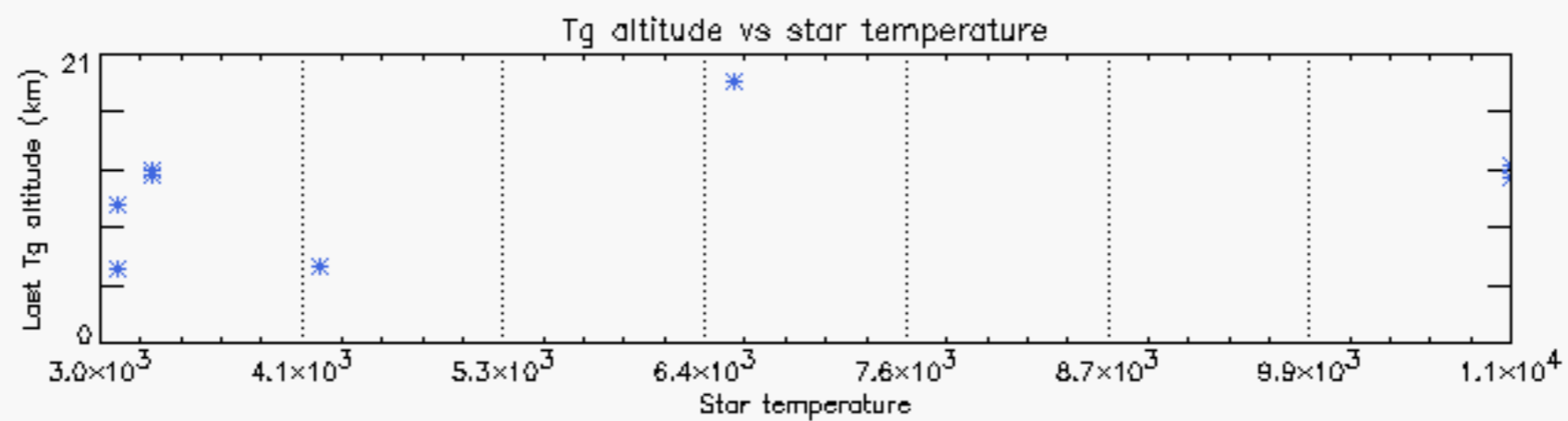
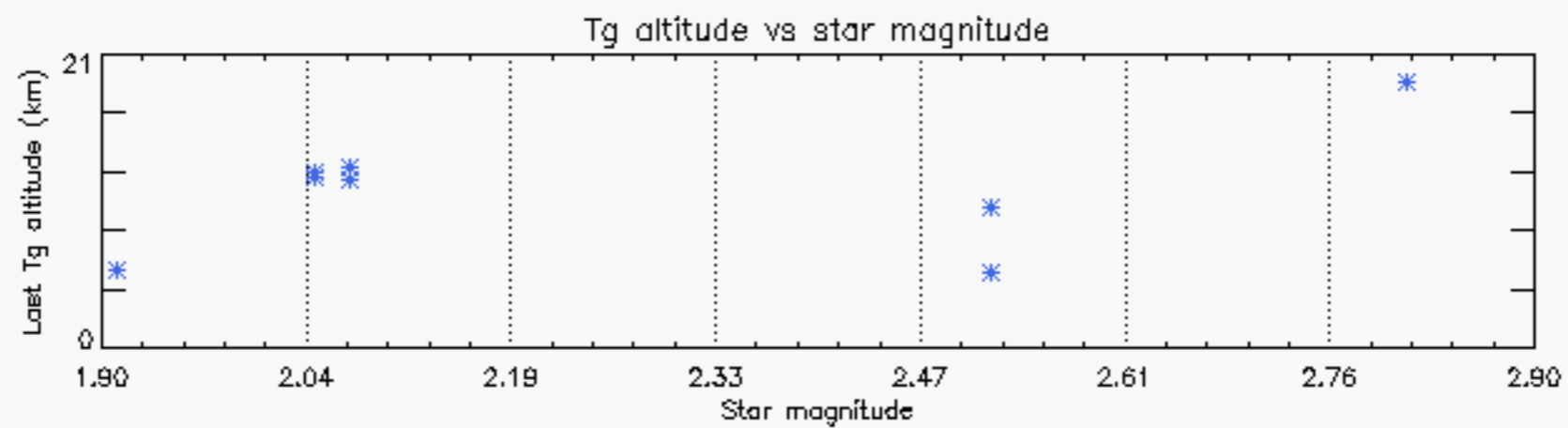
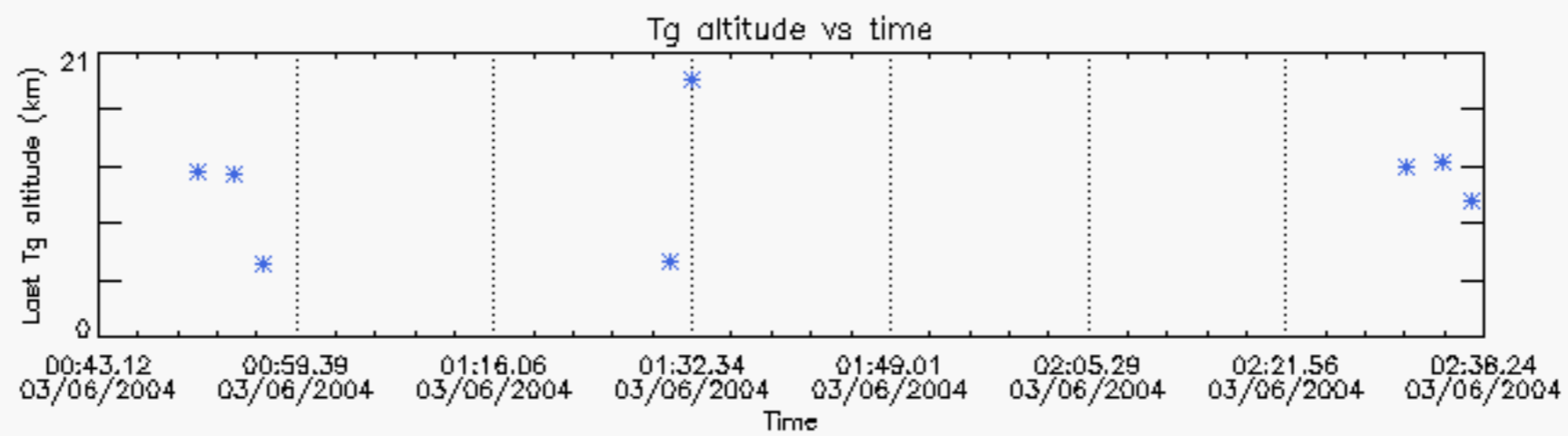
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 31; 1373.5; 01-JUN-2004 07:45:57; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;11784  
 32; 1498.2; 01-JUN-2004 07:48:02; Bright; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;11784  
 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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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
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32; 1252.1; 01-JUN-2004 11:05:07; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;11786
33; 1373.3; 01-JUN-2004 11:07:09; Dark ; 44.0; 136; 23Tau Sco ; 2.82; 30000;occ; 88; 0;11786
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27; 494.1; 01-JUN-2004 12:33:05; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11787
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29; 831.2; 01-JUN-2004 12:38:42; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11787
30; 938.2; 01-JUN-2004 12:40:29; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;11787
31; 1039.4; 01-JUN-2004 12:42:11; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;11787

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26; 199.9; 01-JUN-2004 14:08:47; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;11788
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 28; 727.3; 08-JUN-2004 05:34:28; Dark ; 49.0; 43; Alp TrA ; 1.91; 4250;occ; 98; 0;11883  
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36; 978.2; 08-JUN-2004 22:24:38; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;11893
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/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20040610\_062649\_000061572027\_00335\_11912\_0940.N1

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/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20040610\_081055\_000059472027\_00336\_11913\_0941.N1

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/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20040610\_094943\_000059522027\_00337\_11914\_0942.N1

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```

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33; 987.3; 10-JUN-2004 21:21:33; Dark ; 42.0; 147; Alp Ara ; 2.88; 26000;occ; 84; 0;11921
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24; 334.7; 11-JUN-2004 07:14:16; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;11927
25; 427.4; 11-JUN-2004 07:15:49; Dark ; 59.0; 172; Gam Gru ; 3.00; 13100;occ; 118; 0;11927
26; 587.5; 11-JUN-2004 07:18:29; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11927
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31; 1198.7; 11-JUN-2004 07:28:40; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;11927
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33; 1411.4; 11-JUN-2004 07:32:13; Bright; 63.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 126; 0;11927
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23; 214.3; 11-JUN-2004 08:52:52; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;11928
24; 335.8; 11-JUN-2004 08:54:53; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;11928
25; 428.6; 11-JUN-2004 08:56:26; Dark ; 59.0; 172; Gam Gru ; 3.00; 13100;occ; 118; 0;11928
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32; 1298.7; 11-JUN-2004 09:10:56; Dark ; 58.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 117; 0;11928
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23; 96.8; 11-JUN-2004 13:52:42; Dark ; 68.0; 18; 24Alp PsA ; 1.17; 9700;occ; 136; 0;11931
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24; 332.7; 11-JUN-2004 03:53:02; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11925
25; 424.3; 11-JUN-2004 03:54:34; Dark ; 60.5; 172; Gam Gru ; 3.00; 13100;occ; 121; 0;11925
26; 585.8; 11-JUN-2004 03:57:15; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;11925
27; 734.6; 11-JUN-2004 03:59:44; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;11925
28; 908.4; 11-JUN-2004 04:02:38; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;11925
29; 989.5; 11-JUN-2004 04:03:59; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;11925
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32; 736.5; 11-JUN-2004 20:45:46; Dark ; 45.0; 43; Alp TrA ; 1.91; 4250;occ; 90; 0;11935
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19;-1075.7;	12-JUN-2004	04:38:33;	Dark	;	70.5;	140;	88Gam Peg	;	2.83;	26000;occ;	141;	0;11939
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25;595.3;	12-JUN-2004	05:06:24;	Dark	;	45.5;	45;	Alp Pav	;	1.94;	26000;occ;	91;	0;11940
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27;854.1;	12-JUN-2004	05:10:43;	Dark	;	40.5;	134;	Bet TrA	;	2.81;	6600;occ;	81;	0;11940
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29;1098.3;	12-JUN-2004	05:14:47;	Dark	;	48.5;	40;	The Sco	;	1.86;	7100;occ;	97;	0;11940
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4;-4729.2;	12-JUN-2004	18:43:03;	Dark	;	64.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	128;	0;11948
5;-4617.9;	12-JUN-2004	18:44:54;	Bright;	61.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	123;	0;11948	
6;-4428.3;	12-JUN-2004	18:48:04;	Bright;	41.5;	86;	35Eta Oph	;	2.43;	10200;occ;	83;	0;11948	
7;-4323.7;	12-JUN-2004	18:49:48;	Bright;	40.0;	98;	13Zet Oph	;	2.57;	30000;occ;	80;	0;11948	
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9;-4015.7;	12-JUN-2004	18:54:56;	Bright;	36.5;	102;	24Alp Ser	;	2.60;	4250;occ;	73;	0;11948	
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```

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12;-3672.4; 12-JUN-2004 19:00:40; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;11948
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14;-3443.2; 12-JUN-2004 19:04:29; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;11948
15;-3221.2; 12-JUN-2004 19:08:11; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;11948
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23;-1279.7; 12-JUN-2004 19:40:32; Dark ; 194.5; 93; 53Bet Peg ; 2.52; 3100;occ; 389; 0;11948
24;-555.9; 12-JUN-2004 19:52:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11948
25;-407.4; 12-JUN-2004 19:55:05; Dark ; 38.0; 157; The1Eri ; 2.91; 9300;occ; 76; 0;11948
26;-69.8; 12-JUN-2004 20:00:42; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;11948
27; 125.6; 12-JUN-2004 20:03:58; Dark ; 67.0; 18; 24Alp PsA ; 1.17; 9700;occ; 134; 0;11949
28; 261.9; 12-JUN-2004 20:06:14; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;11949
29; 356.3; 12-JUN-2004 20:07:48; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;11949
30; 457.1; 12-JUN-2004 20:09:29; Dark ; 59.5; 172; Gam Gru ; 3.00; 13100;occ; 119; 0;11949
31; 600.2; 12-JUN-2004 20:11:52; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;11949
32; 738.8; 12-JUN-2004 20:14:11; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;11949
33; 855.0; 12-JUN-2004 20:16:07; Dark ; 13.5; 134; Bet TrA ; 2.81; 6600;occ; 27; 0;11949
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4;-4934.5; 12-JUN-2004 20:20:13; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;11949
5;-4830.9; 12-JUN-2004 20:21:57; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;11949
6;-4729.2; 12-JUN-2004 20:23:39; Dark ; 64.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 128; 0;11949
7;-4618.0; 12-JUN-2004 20:25:30; Bright; 59.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 119; 0;11949
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12;-3866.4; 12-JUN-2004 20:38:01; Bright; 49.0; 59; 55Alp Oph ; 2.08; 8900;occ; 98; 0;11949
13;-3756.5; 12-JUN-2004 20:39:51; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;11949
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23;-1629.0; 12-JUN-2004 21:15:19; Dark ; 57.0; 53; 43Bet And ; 2.05; 3300;occ; 114; 0;11949
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26;-554.3; 12-JUN-2004 21:33:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11949
27;-407.2; 12-JUN-2004 21:35:41; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;11949
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29; 127.2; 12-JUN-2004 21:44:35; Dark ; 68.5; 18; 24Alp PsA ; 1.17; 9700;occ; 137; 0;11950
30; 357.0; 12-JUN-2004 21:48:25; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;11950
31; 458.6; 12-JUN-2004 21:50:07; Dark ; 58.0; 172; Gam Gru ; 3.00; 13100;occ; 116; 0;11950
32; 600.9; 12-JUN-2004 21:52:29; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;11950
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34; 855.0; 12-JUN-2004 21:56:43; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;11950
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8;-3571.9; 13-JUN-2004 06:46:32; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;11955

```

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24; 363.3; 13-JUN-2004 07:52:07; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;11956
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29; 999.5; 13-JUN-2004 08:02:43; Dark ; 42.0; 147; Alp Ara ; 2.88; 26000;occ; 84; 0;11956
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31; 1191.5; 13-JUN-2004 08:05:55; Dark ; 52.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 104; 0;11956
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33; 1419.2; 13-JUN-2004 08:09:43; Bright; 62.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 125; 0;11956
34; 1608.3; 13-JUN-2004 08:12:52; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;11956
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25; 605.5; 13-JUN-2004 09:36:45; Dark ; 46.5; 45; Alp Pav ; 1.94; 26000;occ; 93; 0;11957
26; 740.0; 13-JUN-2004 09:38:59; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;11957
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31; 1310.3; 13-JUN-2004 09:48:30; Dark ; 63.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 127; 0;11957
32; 1417.7; 13-JUN-2004 09:50:17; Bright; 65.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 130; 0;11957
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23; 364.8; 13-JUN-2004 11:13:20; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;11958
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23; 141.9; 13-JUN-2004 12:50:13; Dark ; 69.0; 18; 24Alp PsA ; 1.17; 9700;occ; 138; 0;11959
24; 365.9; 13-JUN-2004 12:53:57; Dark ; 53.5; 31; Alp Gru ; 1.73; 15200;occ; 107; 0;11959
25; 470.7; 13-JUN-2004 12:55:42; Dark ; 60.5; 172; Gam Gru ; 3.00; 13100;occ; 121; 0;11959
26; 606.5; 13-JUN-2004 12:57:58; Dark ; 46.0; 45; Alp Pav ; 1.94; 26000;occ; 92; 0;11959
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33; 1420.2; 13-JUN-2004 13:11:31; Bright; 60.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 121; 0;11959
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/data4_2/GOMOS/level0/GOM_NL__0PNPDK20040614_205213_000052472027_00401_11978_0987.N1

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29; 858.5; 15-JUN-2004 06:57:08; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;11984
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31; 1112.8; 15-JUN-2004 07:01:22; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;11984
32; 1216.0; 15-JUN-2004 07:03:05; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;11984
33; 1302.7; 15-JUN-2004 07:04:32; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;11984
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36; 1716.1; 15-JUN-2004 07:11:25; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;11984
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```

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11;	-3088.2;	23-JUN-2004	15:03:12;	Bright;	42.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	84;	0;	12103	
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