

# GOMOS Daily Report 27-JUL-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	29JUL2004 08:01:06
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (27JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (28JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	1

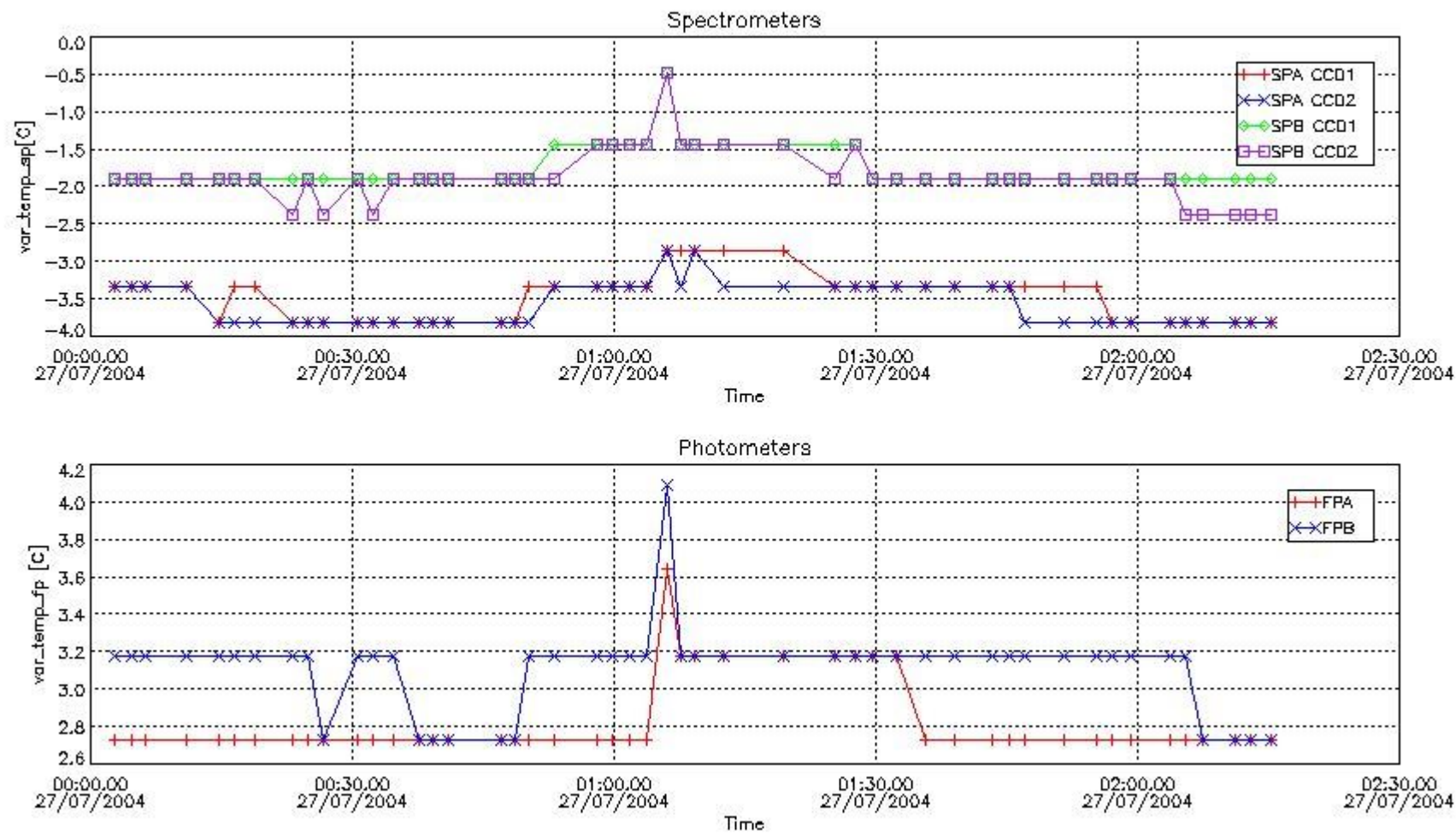
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040727_000249_000000422029_00002_12581_0011.N1	27-JUL-2004 00:02:49	Bright	42.000	38	20Eps Sgr	1.8360	11000.	84	12581	No
GOM_TRA_1PNPDE20040727_000444_000000402029_00002_12581_0012.N1	27-JUL-2004 00:04:44	Bright	39.500	57	34Sig Sgr	2.0660	26000.	79	12581	No
GOM_TRA_1PNPDE20040727_000622_000000592029_00002_12581_0013.N1	27-JUL-2004 00:06:22	Bright	58.500	142	49Del Cap	2.8500	8900.0	117	12581	No
GOM_TRA_1PNPDE20040727_001100_000000602029_00002_12581_0014.N1	27-JUL-2004 00:11:00	Bright	60.000	154	22Bet Aqr	2.8990	5700.0	120	12581	No
GOM_TRA_1PNPDE20040727_001443_000000422029_00002_12581_0015.N1	27-JUL-2004 00:14:43	Bright	41.500	11	53Alp Aql	0.76500	8000.0	83	12581	No
GOM_TRA_1PNPDE20040727_001627_000000382029_00002_12581_0016.N1	27-JUL-2004 00:16:27	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	12581	No
GOM_TRA_1PNPDE20040727_001844_000000692029_00002_12581_0017.N1	27-JUL-2004 00:18:44	Bright	69.000	61	8Eps Peg	2.1000	3900.0	138	12581	No
GOM_TRA_1PNPDE20040727_002304_000000372029_00002_12581_0018.N1	27-JUL-2004 00:23:04	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	12581	No
GOM_TRA_1PNPDE20040727_002459_000000412029_00002_12581_0019.N1	27-JUL-2004 00:24:59	Bright	41.000	66	37Gam Cyg	2.2080	5900.0	82	12581	No
GOM_TRA_1PNPDE20040727_002643_000000432029_00002_12581_0020.N1	27-JUL-2004 00:26:43	Bright	43.000	69	33Gam Dra	2.2310	3800.0	86	12581	No
GOM_TRA_1PNPDE20040727_003033_000000352029_00002_12581_0021.N1	27-JUL-2004 00:30:33	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	12581	No
GOM_TRA_1PNPDE20040727_003220_000000422029_00002_12581_0022.N1	27-JUL-2004 00:32:20	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	12581	No
GOM_TRA_1PNPDE20040727_003445_000000362029_00002_12581_0023.N1	27-JUL-2004 00:34:45	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	12581	No
GOM_TRA_1PNPDE20040727_003737_000000382029_00002_12581_0024.N1	27-JUL-2004 00:37:37	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	12581	No
GOM_TRA_1PNPDE20040727_003912_000000522029_00002_12581_0025.N1	27-JUL-2004 00:39:12	Bright	51.500	74	11Bet Cas	2.2680	6600.0	103	12581	No
GOM_TRA_1PNPDE20040727_004101_000000492029_00002_12581_0026.N1	27-JUL-2004 00:41:01	Bright	49.000	76	27Gam Cas	2.3000	30000.	98	12581	No
GOM_TRA_1PNPDE20040727_004700_000000462029_00002_12581_0027.N1	27-JUL-2004 00:47:00	Bright	46.000	160	23Gam Per	2.9300	4700.0	92	12581	No
GOM_TRA_1PNPDE20040727_004834_000000482029_00002_12581_0028.N1	27-JUL-2004 00:48:34	Bright	47.500	35	33Alp Per	1.7950	6250.0	95	12581	No
GOM_TRA_1PNPDE20040727_005008_000000752029_00002_12581_0029.N1	27-JUL-2004 00:50:08	Twilight	75.000	73	57Gam1And	2.2600	13100.	150	12581	No
GOM_TRA_1PNPDE20040727_005307_000001892029_00002_12581_0030.N1	27-JUL-2004 00:53:07	Twilight	189.00	53	43Bet And	2.0480	3300.0	378	12581	No
GOM_TRA_1PNPDE20040727_005807_000000562029_00002_12581_0031.N1	27-JUL-2004 00:58:07	Twilight	55.500	146	25Eta Tau	2.8730	15200.	111	12581	No
GOM_TRA_1PNPDE20040727_005943_000000552029_00002_12581_0032.N1	27-JUL-2004 00:59:43	Twilight	54.500	13	87Alp Tau	0.86700	3800.0	109	12581	No
GOM_TRA_1PNPDE20040727_010146_000000432029_00002_12581_0033.N1	27-JUL-2004 01:01:46	Twilight	43.000	27	24Gam Ori	1.6360	26000.	86	12581	No
GOM_TRA_1PNPDE20040727_010341_000000432029_00002_12581_0034.N1	27-JUL-2004 01:03:41	Twilight	43.000	30	46Eps Ori	1.6940	30000.	86	12581	No
GOM_TRA_1PNPDE20040727_010603_000000512029_00002_12581_0000.N1	27-JUL-2004 01:06:03	Dark	50.500	7	19Bet Ori	0.10000	14000.	101	12581	Yes
GOM_TRA_1PNPDE20040727_010744_000000392029_00002_12581_0001.N1	27-JUL-2004 01:07:44	Dark	39.000	47	2Bet CMa	1.9760	28000.	78	12581	No
GOM_TRA_1PNPDE20040727_010911_000000422029_00002_12581_0002.N1	27-JUL-2004 01:09:11	Dark	41.500	139	9Bet Lep	2.8330	5600.0	83	12581	No
GOM_TRA_1PNPDE20040727_011236_000000422029_00002_12581_0003.N1	27-JUL-2004 01:12:36	Dark	41.500	108	Alp Col	2.6520	15200.	83	12581	No
GOM_TRA_1PNPDE20040727_011928_000000492029_00002_12581_0004.N1	27-JUL-2004 01:19:28	Dark	48.500	157	The1Eri	2.9060	9300.0	97	12581	No
GOM_TRA_1PNPDE20040727_012515_000000462029_00003_12582_0005.N1	27-JUL-2004 01:25:15	Dark	45.500	9	Alp Eri	0.45300	24000.	91	12582	No
GOM_TRA_1PNPDE20040727_012743_000000402029_00003_12582_0006.N1	27-JUL-2004 01:27:43	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12582	No
GOM_TRA_1PNPDE20040727_012932_000000582029_00003_12582_0007.N1	27-JUL-2004 01:29:32	Dark	58.000	84	Alp Phe	2.3970	4500.0	116	12582	No
GOM_TRA_1PNPDE20040727_013222_000000442029_00003_12582_0008.N1	27-JUL-2004 01:32:22	Twilight	44.000	148	Alp Tuc	2.8780	4100.0	88	12582	No
GOM_TRA_1PNPDE20040727_013536_000000502029_00003_12582_0009.N1	27-JUL-2004 01:35:36	Twilight	49.500	31	Alp Gru	1.7340	15200.	99	12582	No
GOM_TRA_1PNPDE20040727_013856_000000742029_00003_12582_0010.N1	27-JUL-2004 01:38:56	Bright	73.500	18	24Alp PsA	1.1660	9700.0	147	12582	No
GOM_TRA_1PNPDE20040727_014325_000000452029_00003_12582_0011.N1	27-JUL-2004 01:43:25	Bright	44.500	38	20Eps Sgr	1.8360	11000.	89	12582	No
GOM_TRA_1PNPDE20040727_014520_000000392029_00003_12582_0012.N1	27-JUL-2004 01:45:20	Bright	38.500	57	34Sig Sgr	2.0660	26000.	77	12582	No
GOM_TRA_1PNPDE20040727_014658_000000612029_00003_12582_0013.N1	27-JUL-2004 01:46:58	Bright	60.500	142	49Del Cap	2.8500	8900.0	121	12582	No
GOM_TRA_1PNPDE20040727_015136_000000612029_00003_12582_0014.N1	27-JUL-2004 01:51:36	Bright	60.500	154	22Bet Aqr	2.8990	5700.0	121	12582	No
GOM_TRA_1PNPDE20040727_015520_000000402029_00003_12582_0015.N1	27-JUL-2004 01:55:20	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	12582	No
GOM_TRA_1PNPDE20040727_015703_000000402029_00003_12582_0016.N1	27-JUL-2004 01:57:03	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	12582	No
GOM_TRA_1PNPDE20040727_015918_000000772029_00003_12582_0017.N1	27-JUL-2004 01:59:18	Bright	76.500	61	8Eps Peg	2.1000	3900.0	153	12582	No
GOM_TRA_1PNPDE20040727_020341_000000382029_00003_12582_0018.N1	27-JUL-2004 02:03:41	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	12582	No
GOM_TRA_1PNPDE20040727_020534_000000432029_00003_12582_0019.N1	27-JUL-2004 02:05:34	Bright	42.500	66	37Gam Cyg	2.2080	5900.0	85	12582	No
GOM_TRA_1PNPDE20040727_020721_000000392029_00003_12582_0020.N1	27-JUL-2004 02:07:21	Bright	39.000	69	33Gam Dra	2.2310	3800.0	78	12582	No
GOM_TRA_1PNPDE20040727_021109_000000392029_00003_12582_0021.N1	27-JUL-2004 02:11:09	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	12582	No
GOM_TRA_1PNPDE20040727_021255_000000392029_00003_12582_0022.N1	27-JUL-2004 02:12:55	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	12582	No
GOM_TRA_1PNPDE20040727_021522_000000392029_00003_12582_0023.N1	27-JUL-2004 02:15:22	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	12582	No

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



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

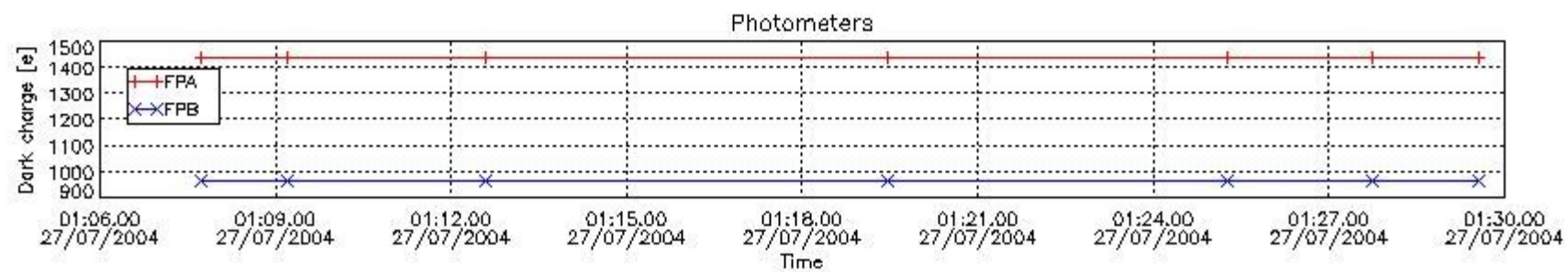
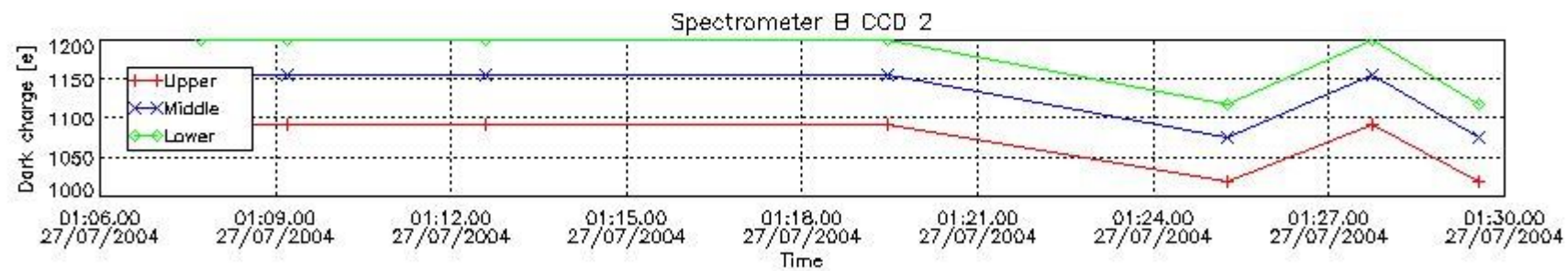
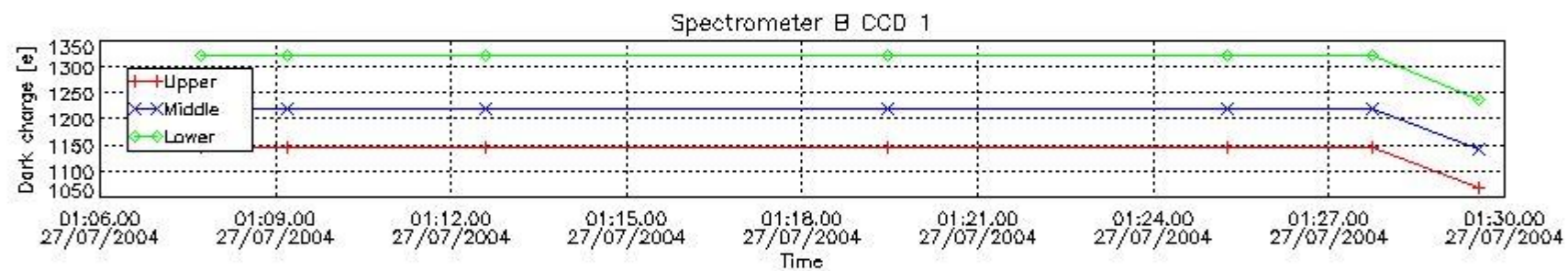
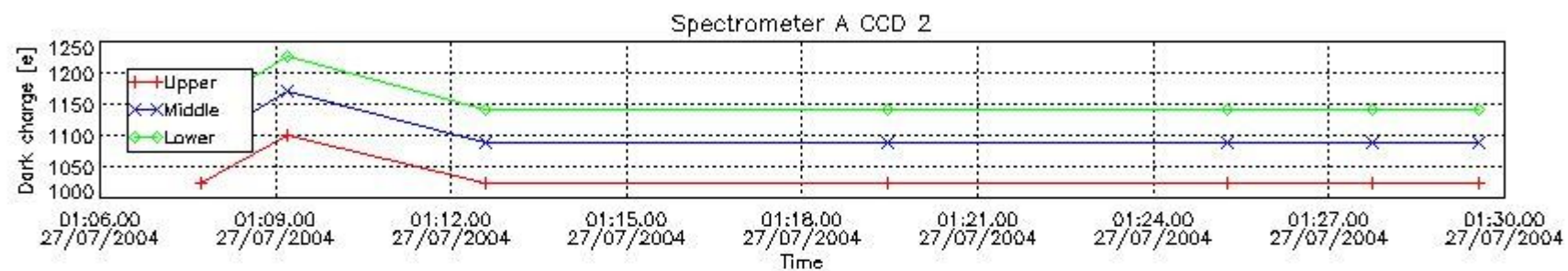
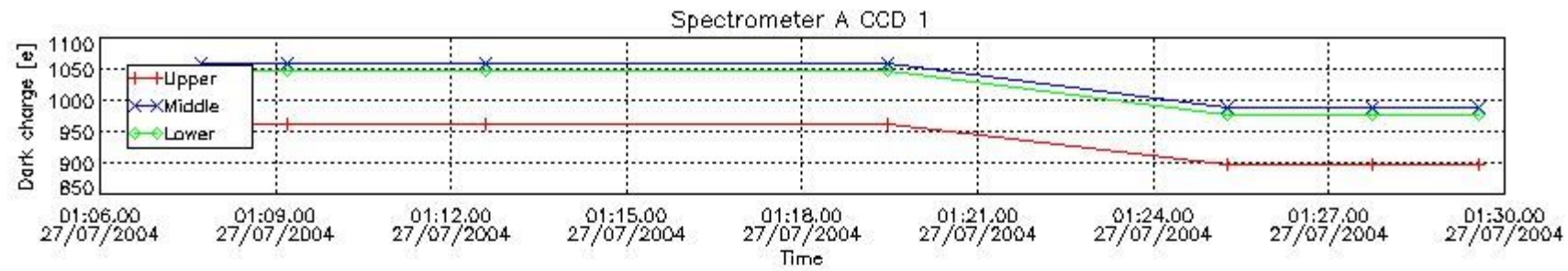
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





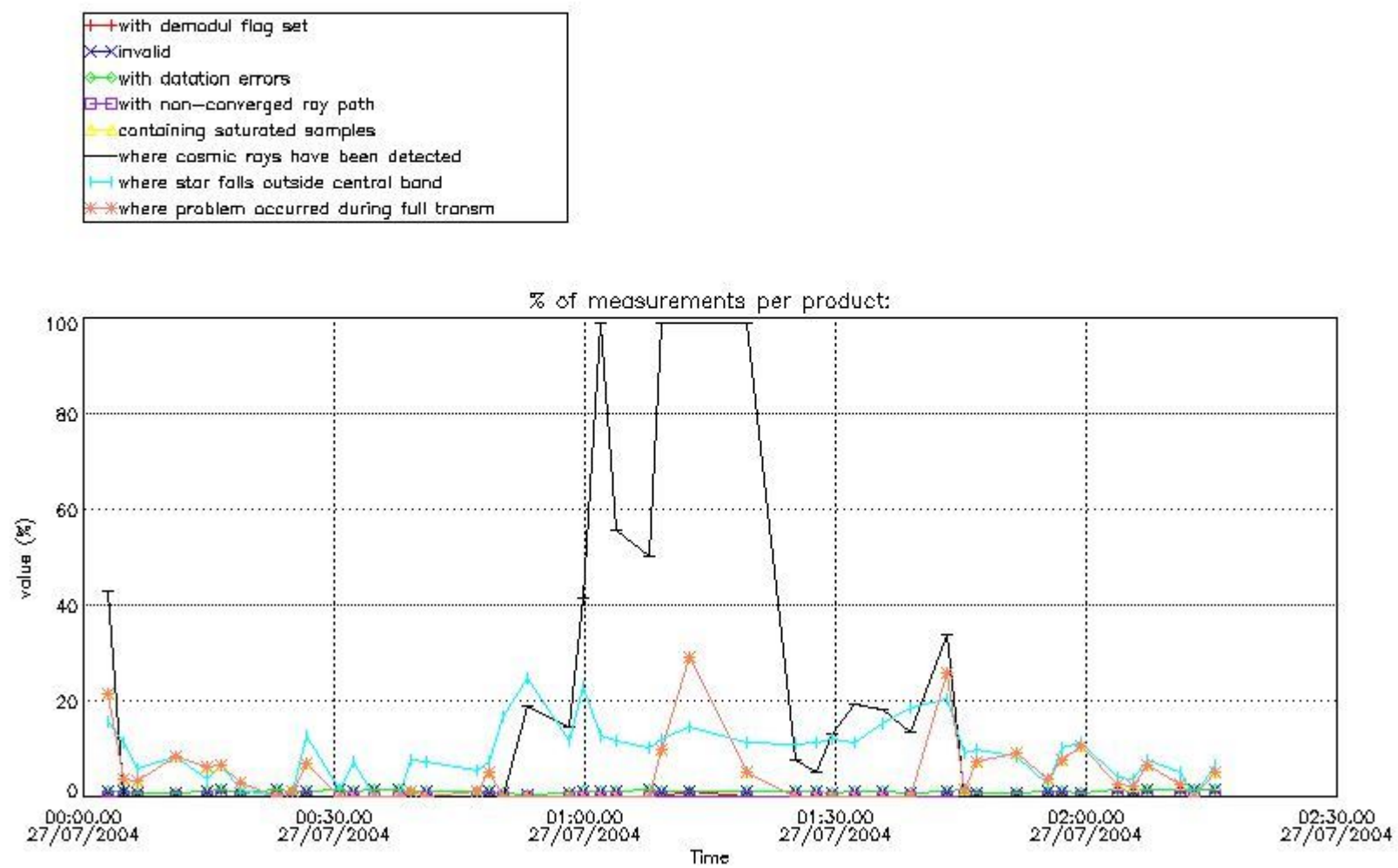
## 5. Demodulation flag and quality information monitoring

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.

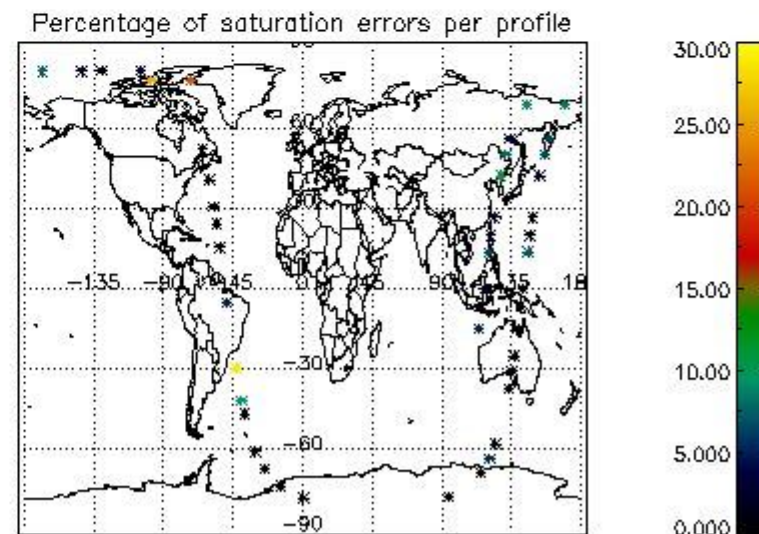
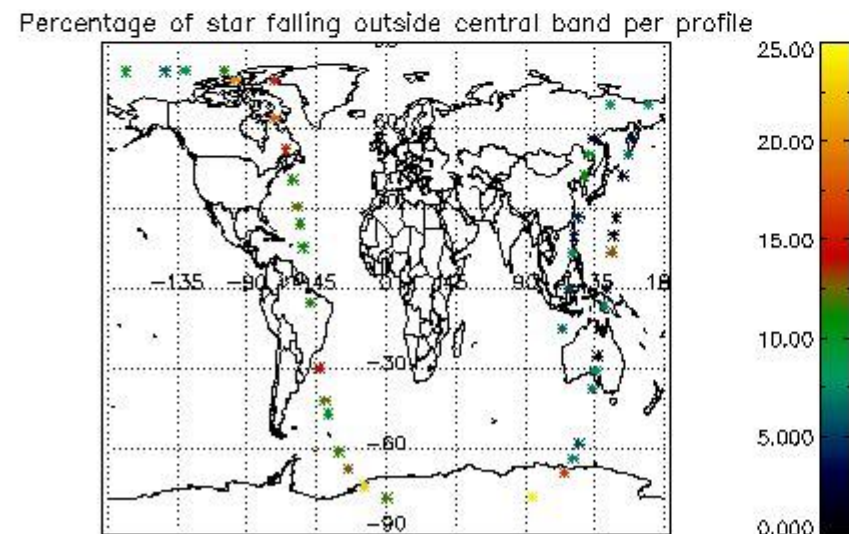
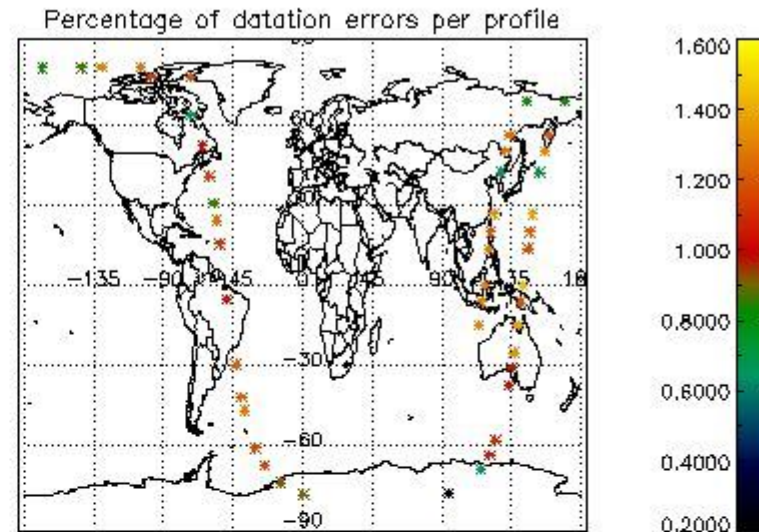
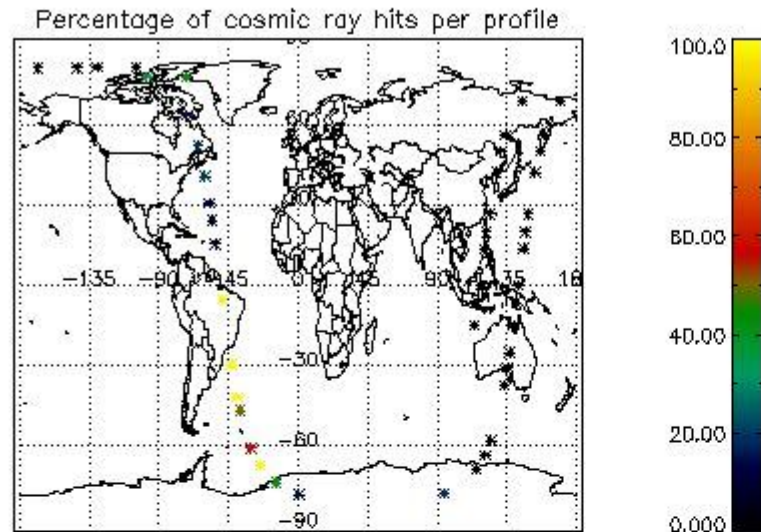
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.6383 %
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)

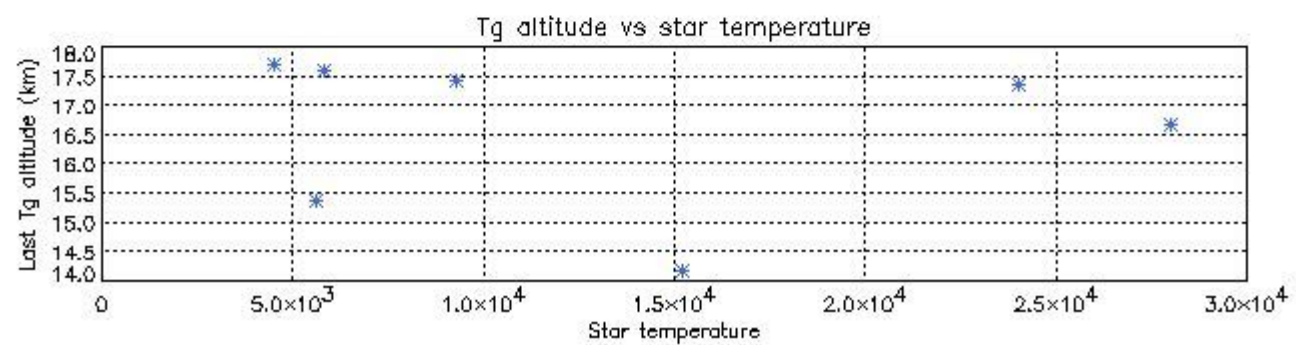
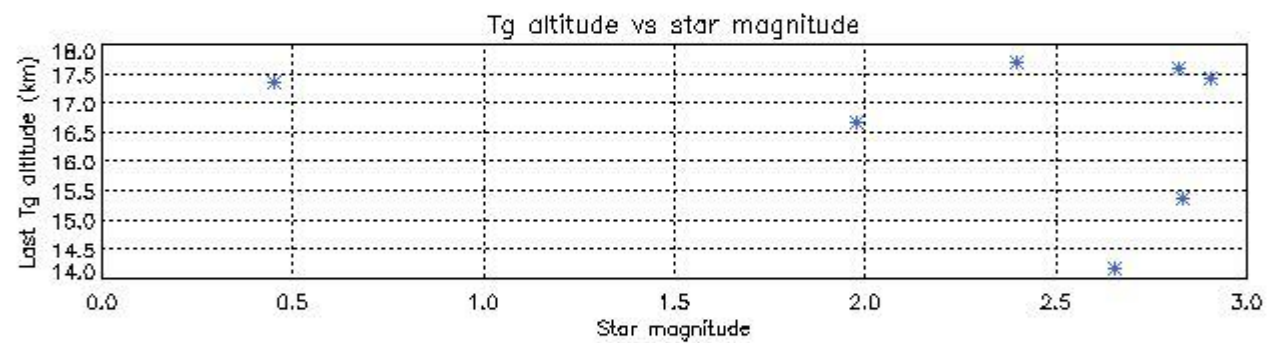
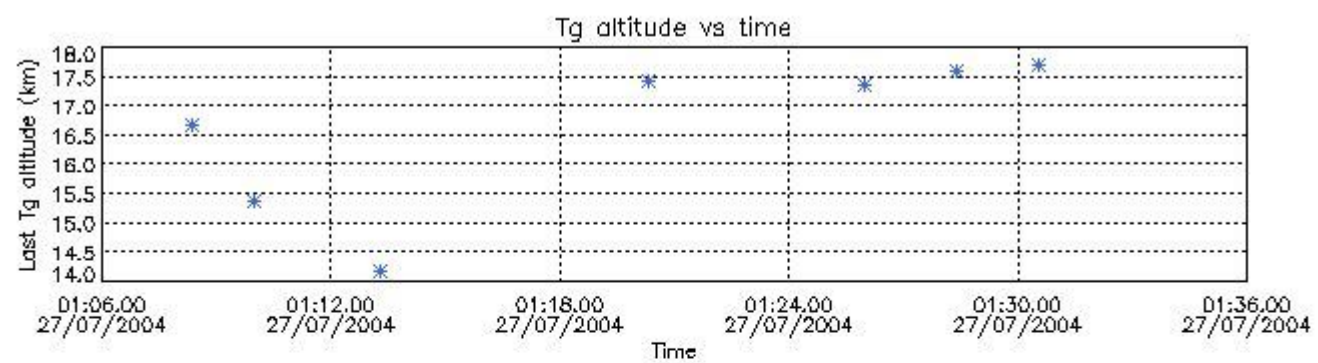
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.613	20.877	13.733
St. deviation:	1.3421	4.2582	2.4164
Maximum:	17.685	29.809	16.567
Minimum:	14.177	11.847	9.4242
Number of data:	7.0000	32.000	8.0000

### 6.2 Plot for DARK limb products

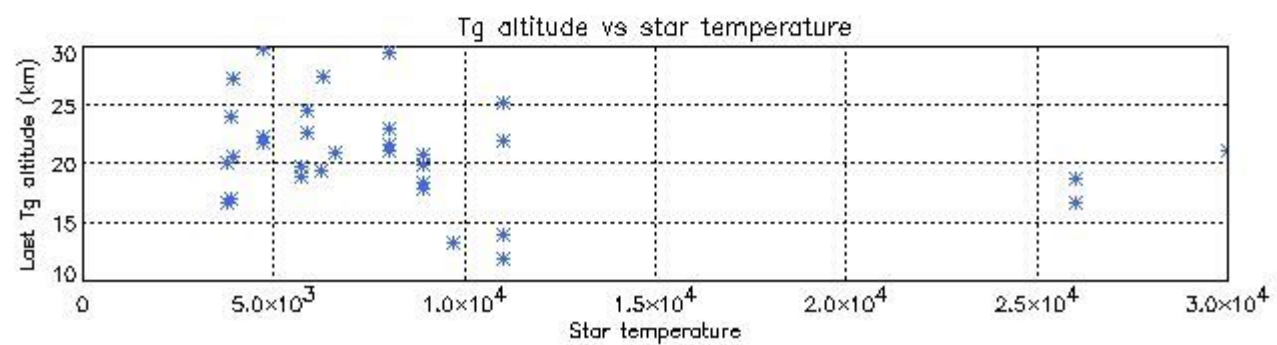
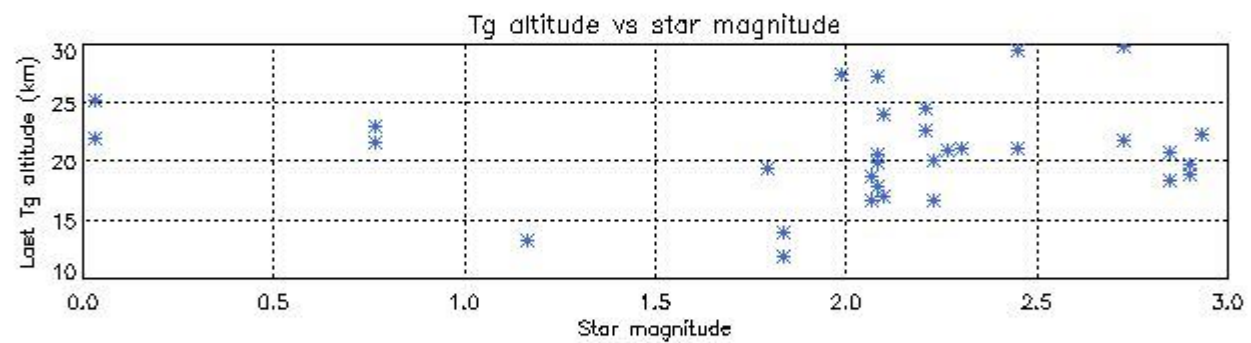
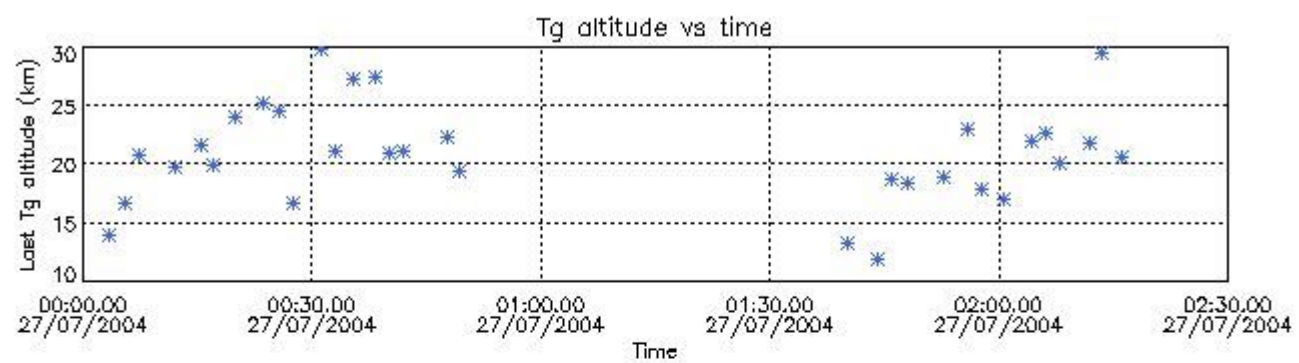


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

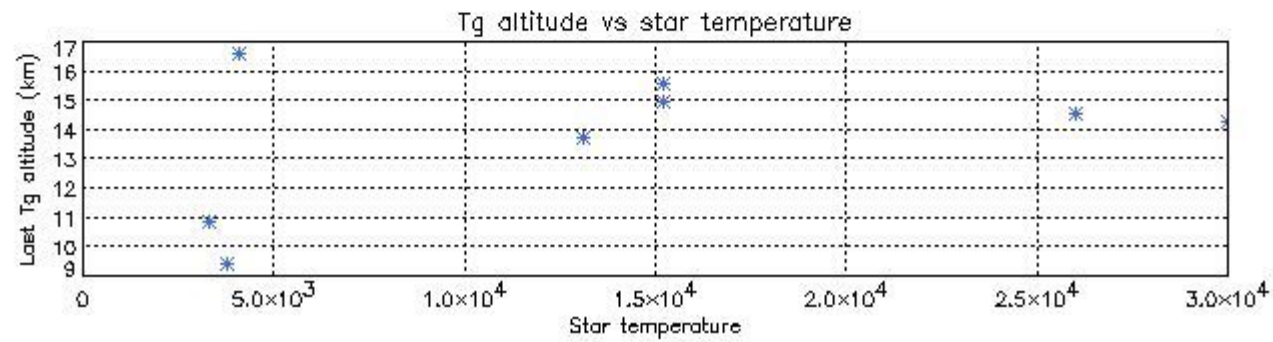
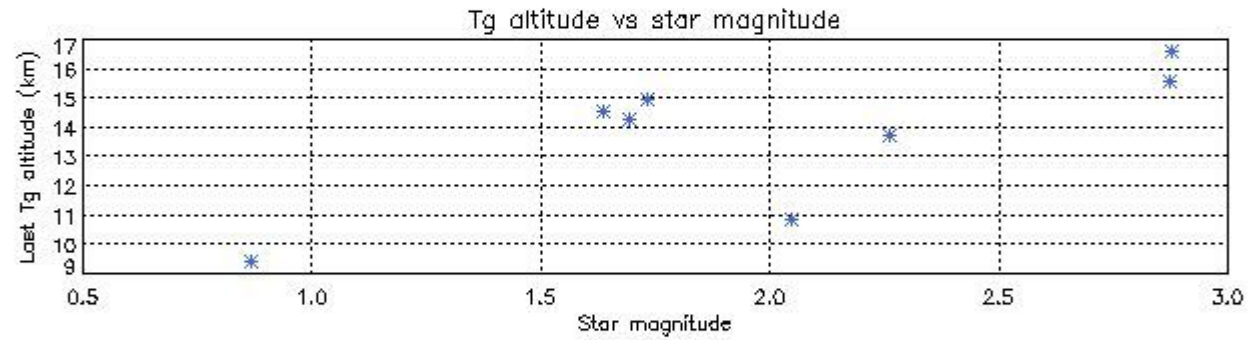
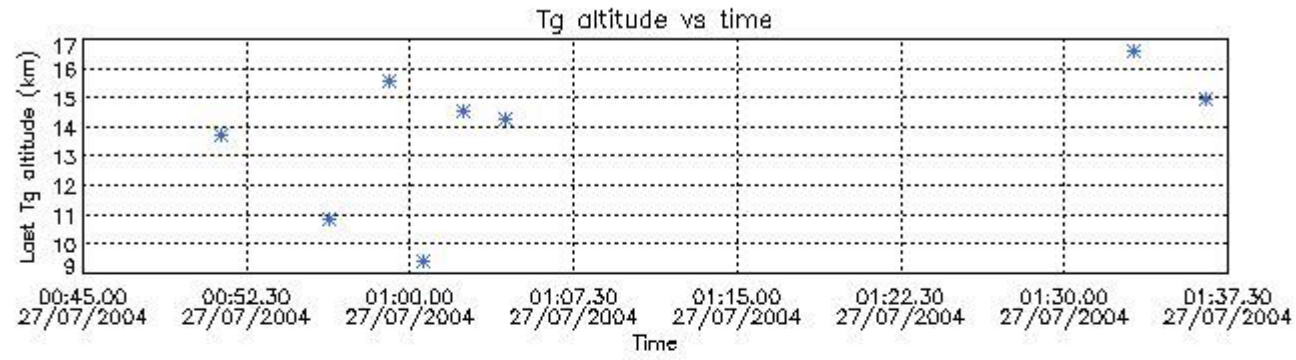
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



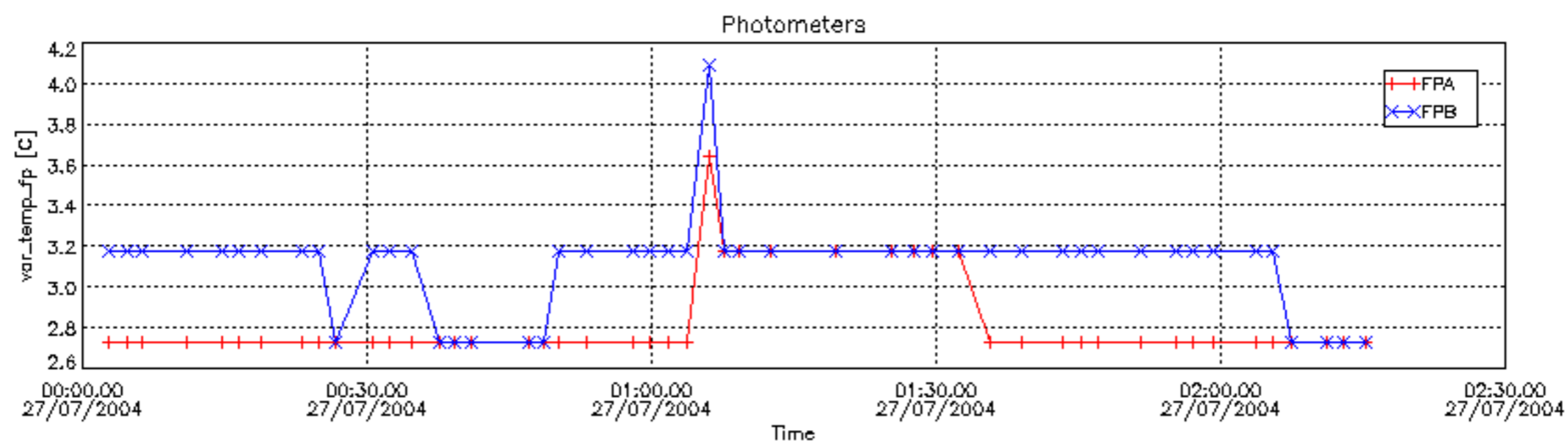
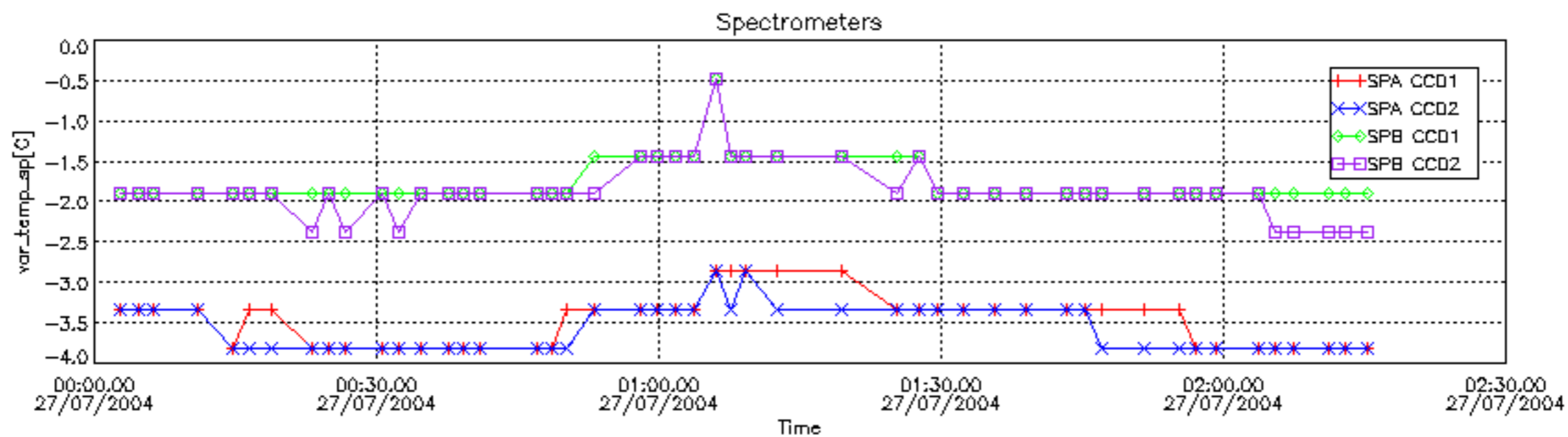
Tangent altitude at which the star is lost

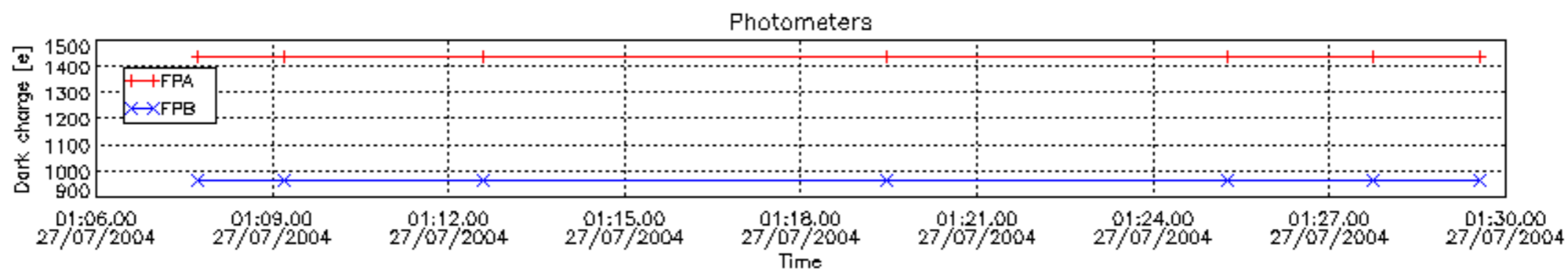
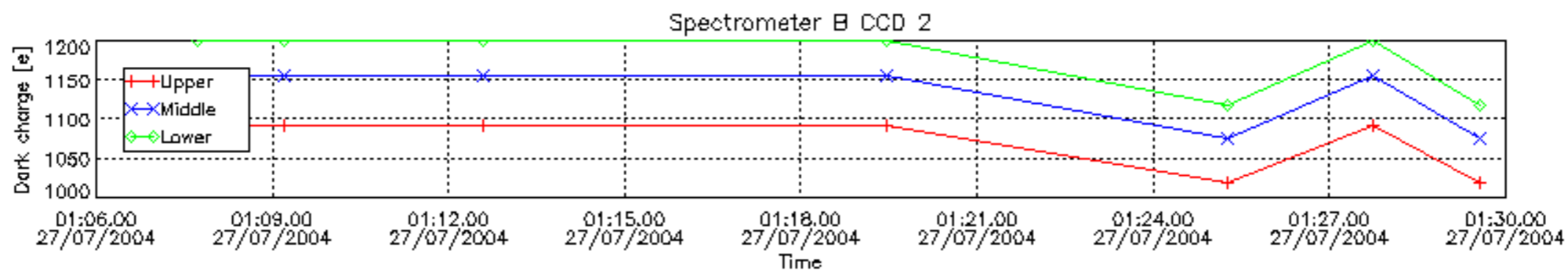
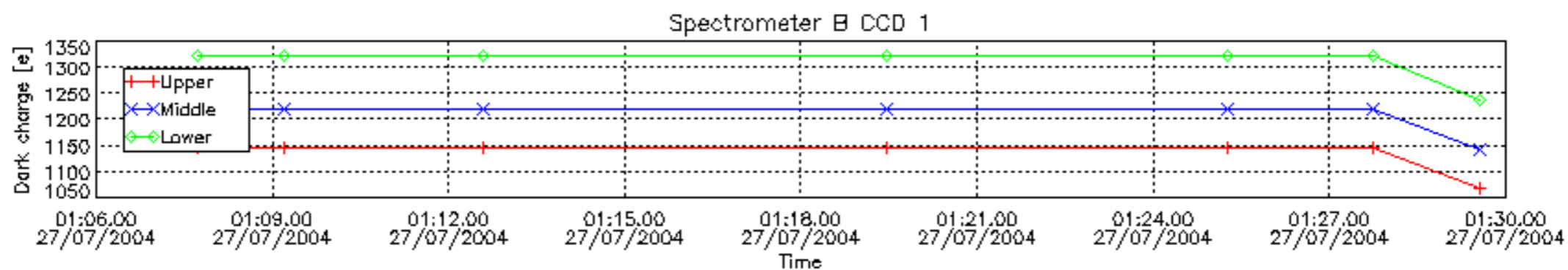
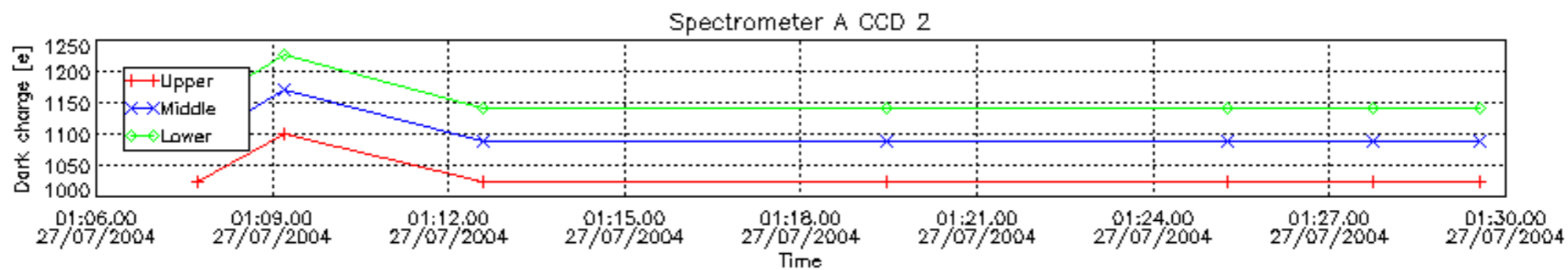
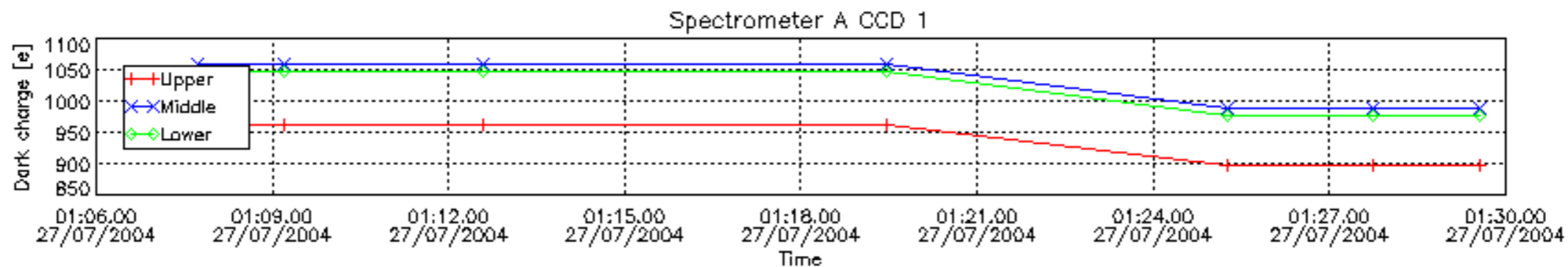


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1460.7	1446.8	1461.6	1447.8
St. deviation:	6.1971	6.7639	5.8473	6.4850
Maximum:	1492.0	1481.0	1508.0	1496.0
Minimum:	1445.0	1438.0	1450.0	1434.0
Number of data:	8350.0	8350.0	38550.	38550.

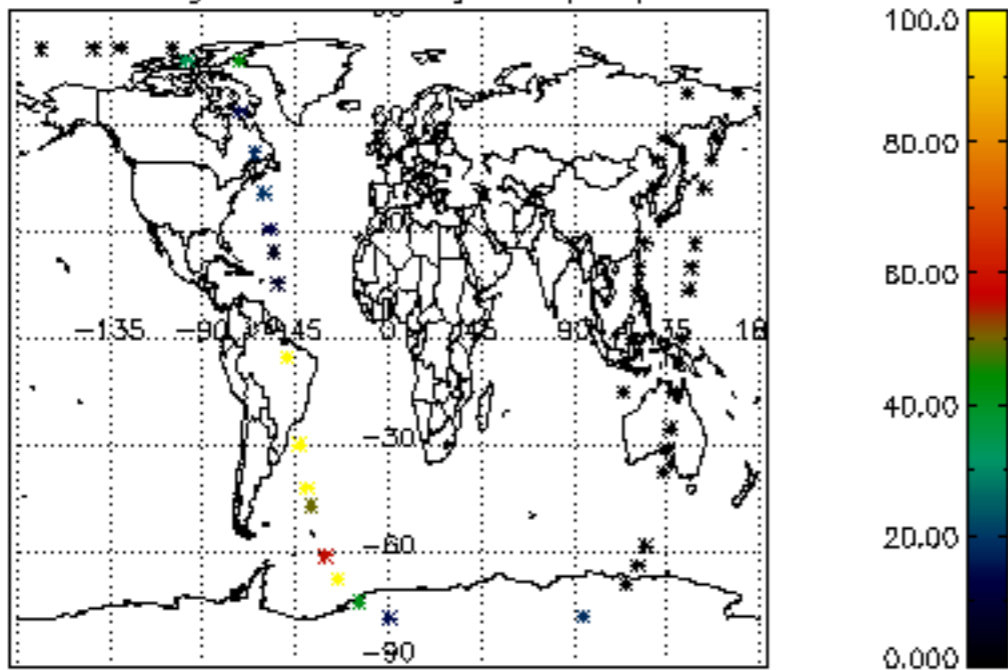




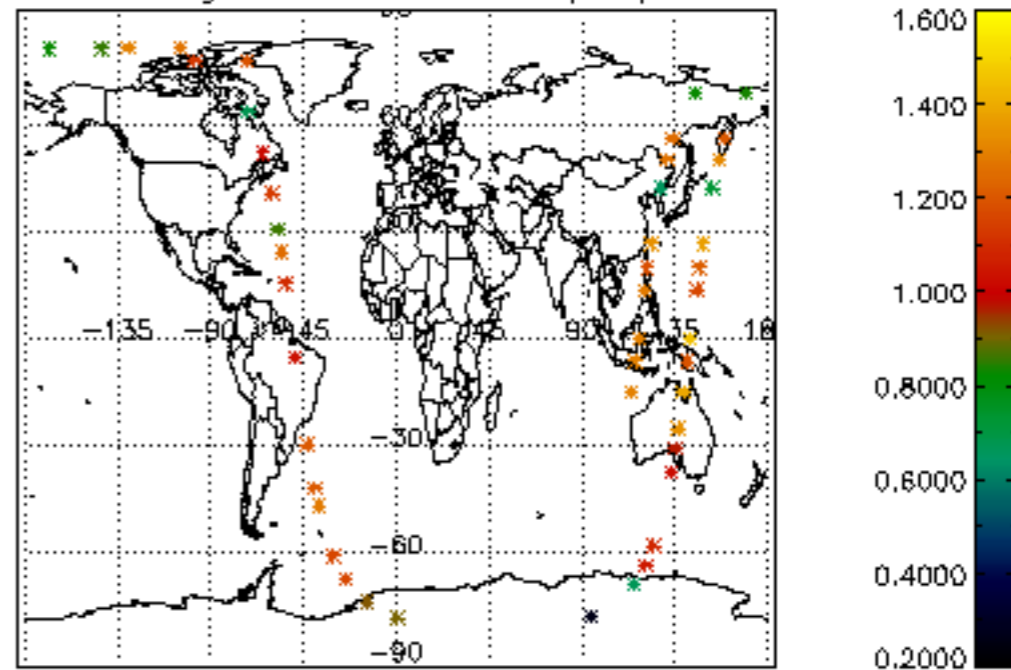




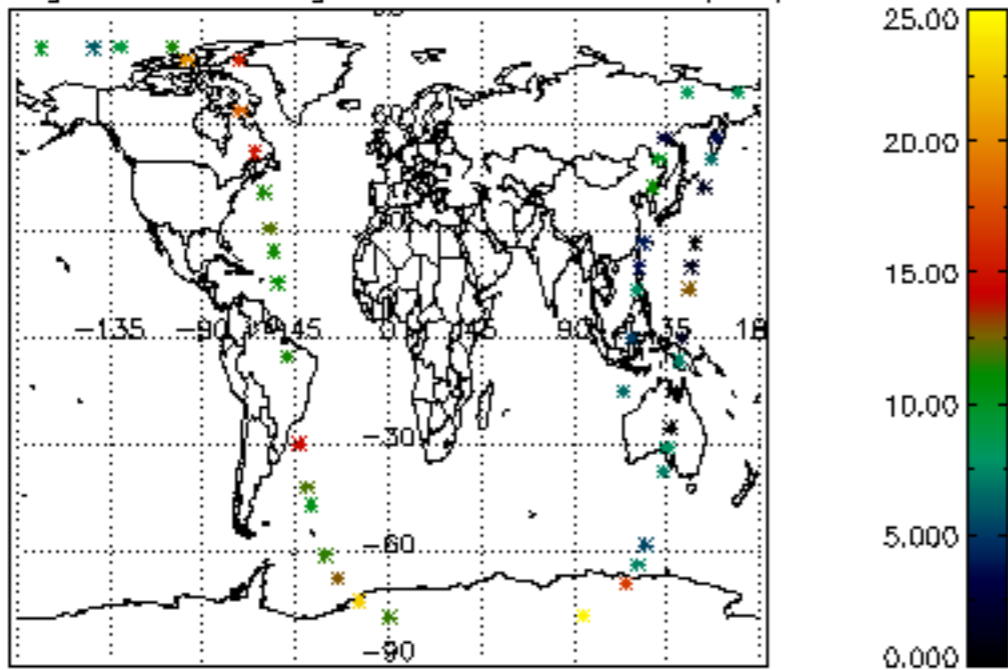
Percentage of cosmic ray hits per profile



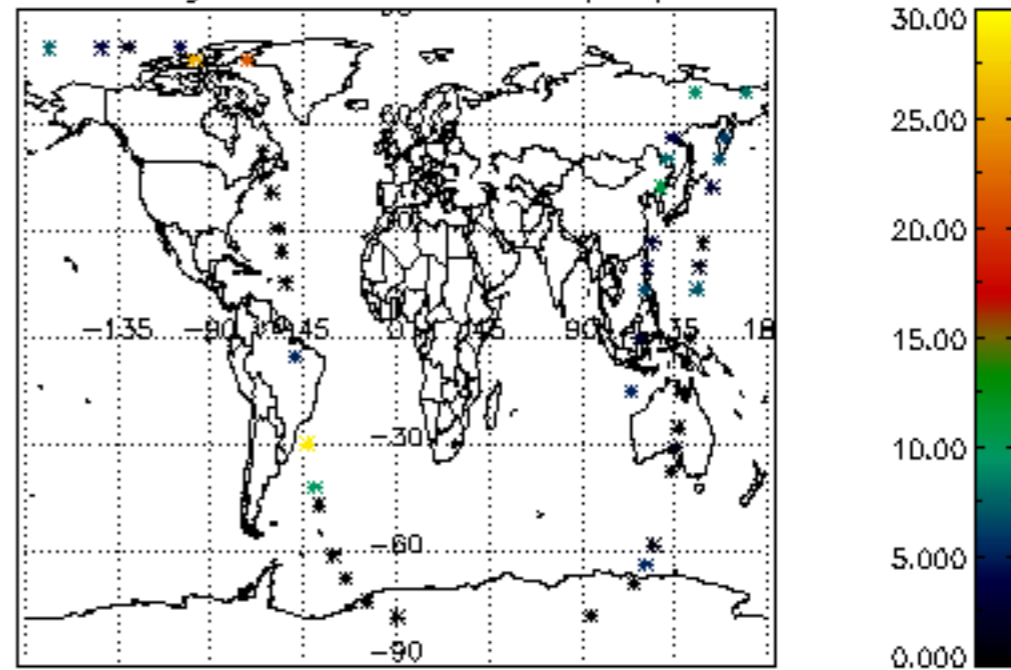
Percentage of datation errors per profile



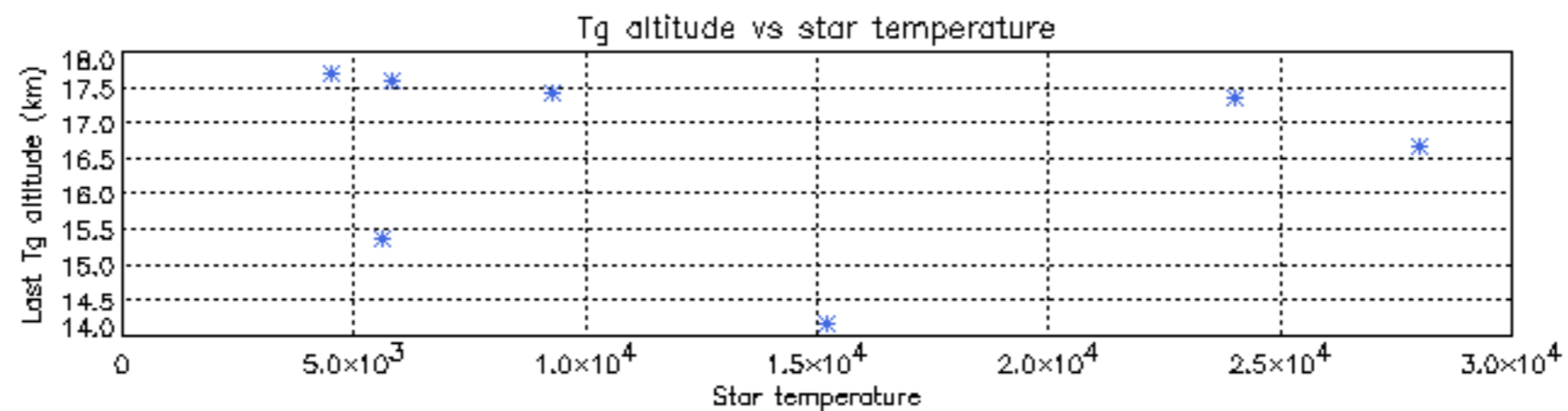
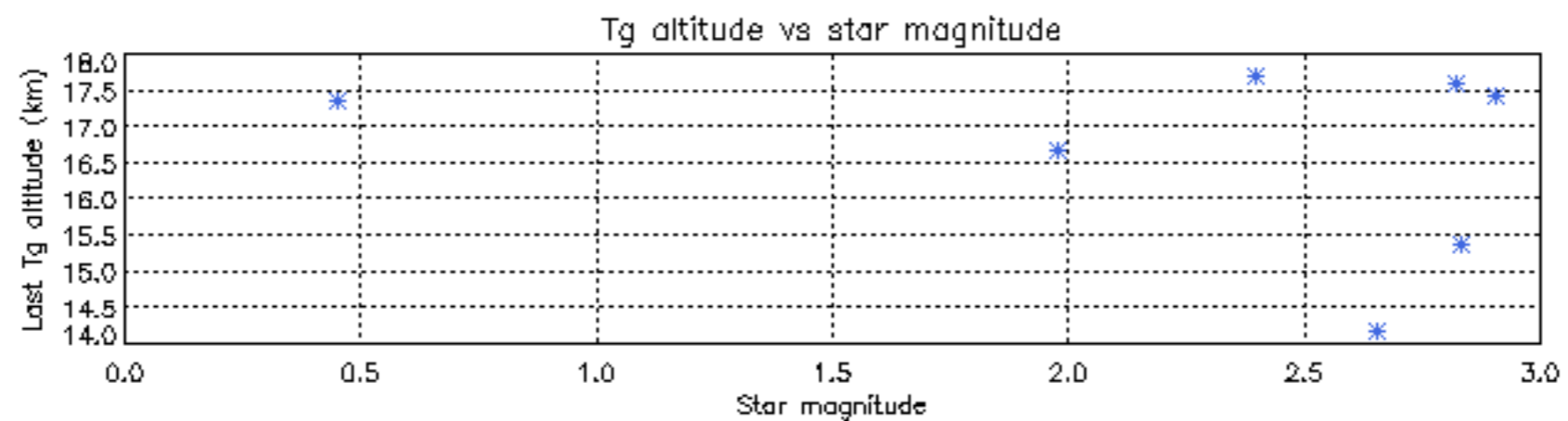
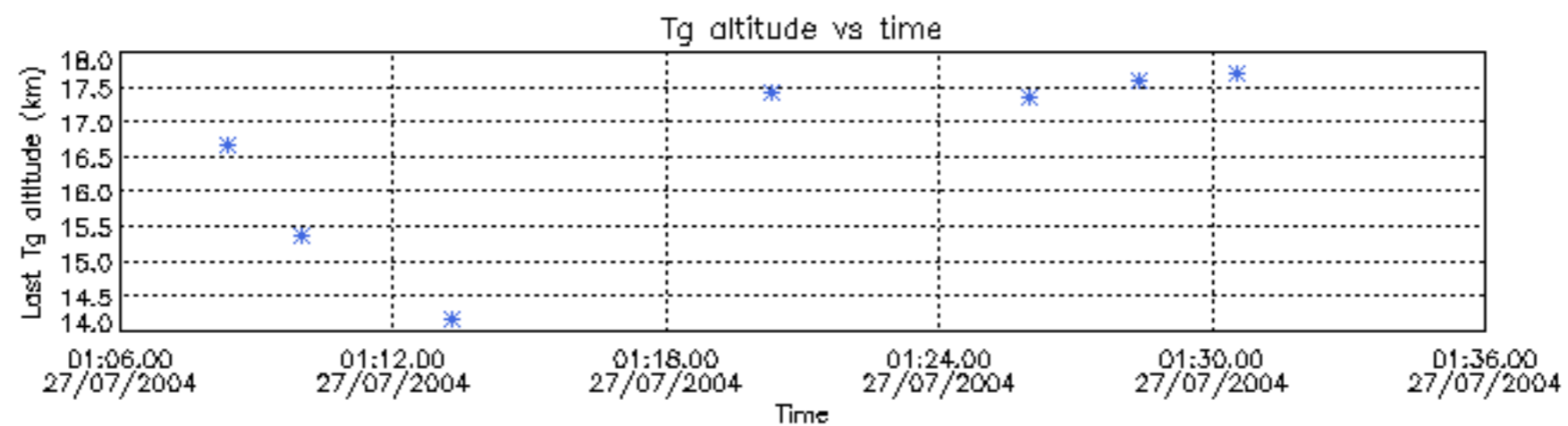
Percentage of star falling outside central band per profile



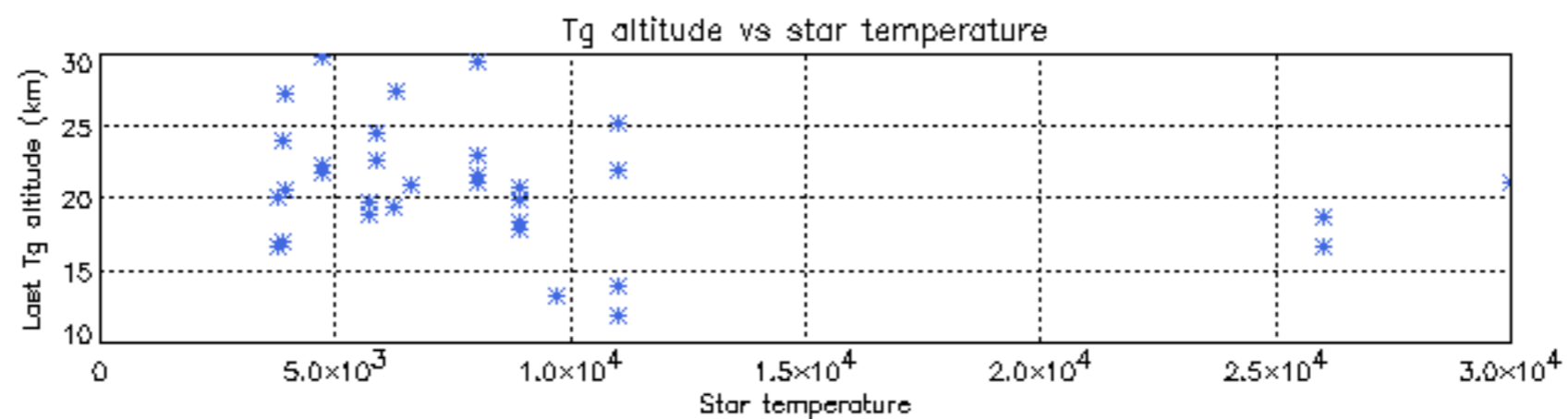
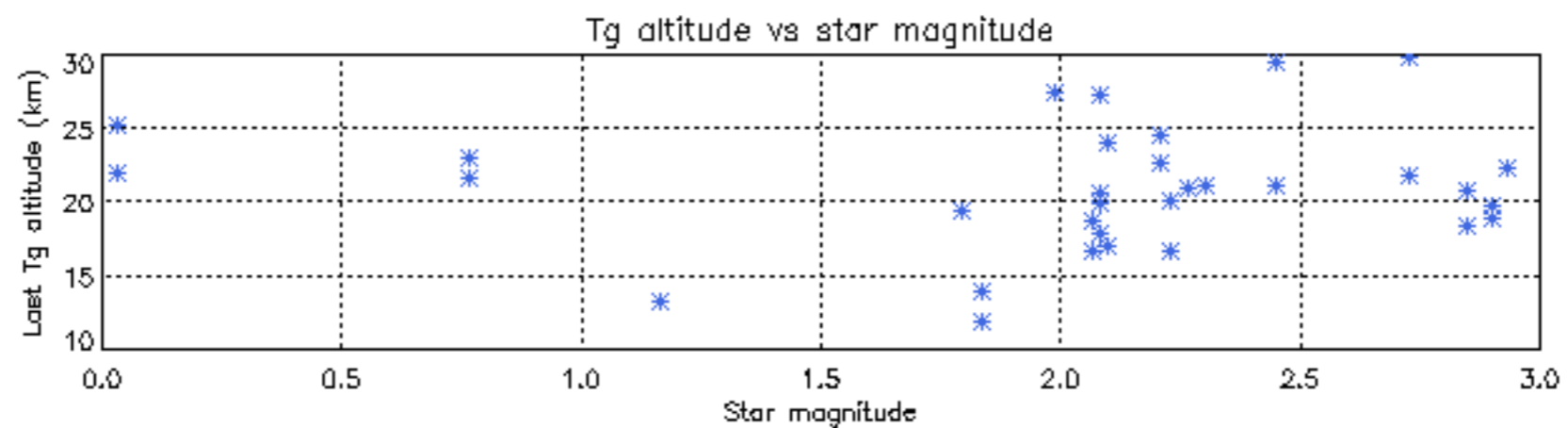
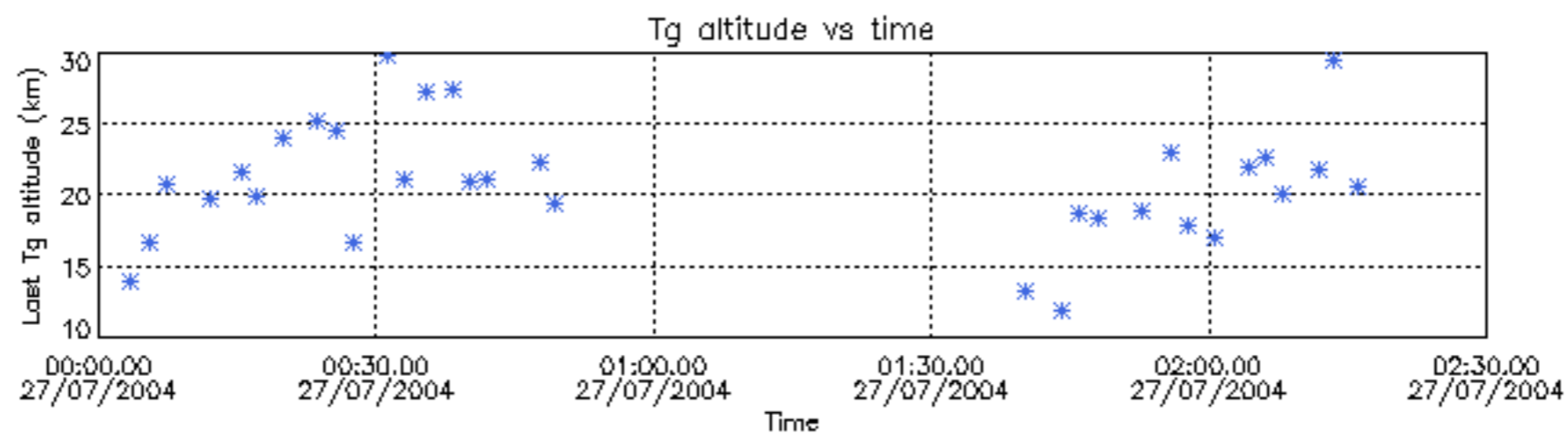
Percentage of saturation errors per profile



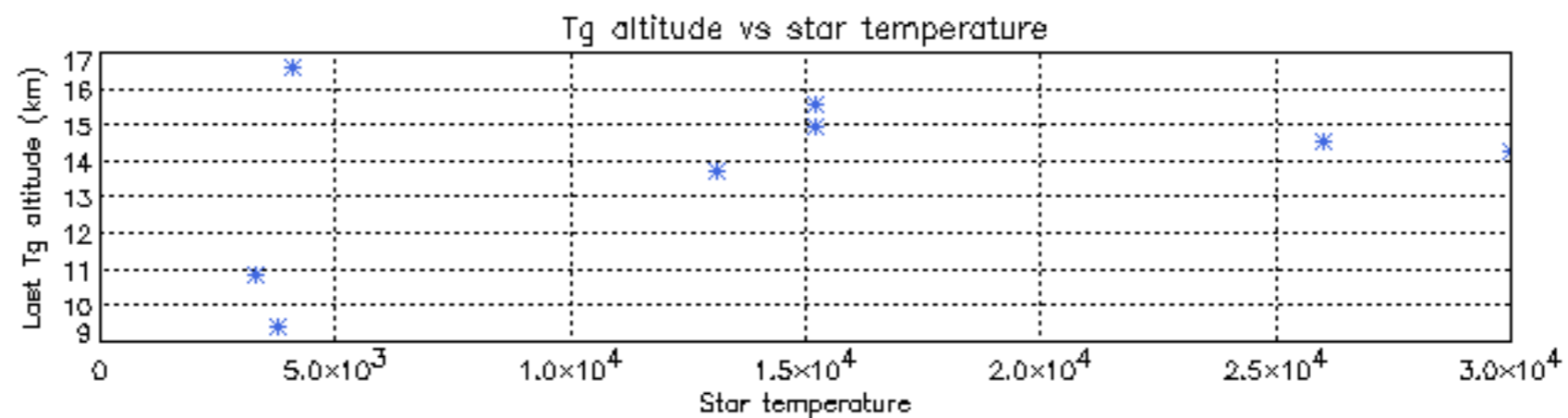
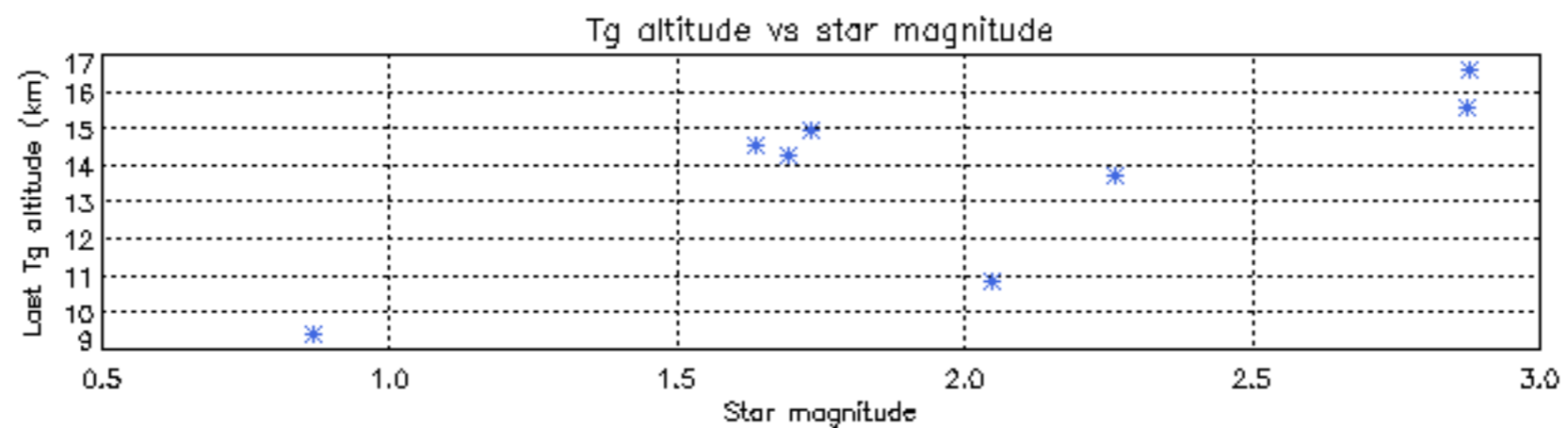
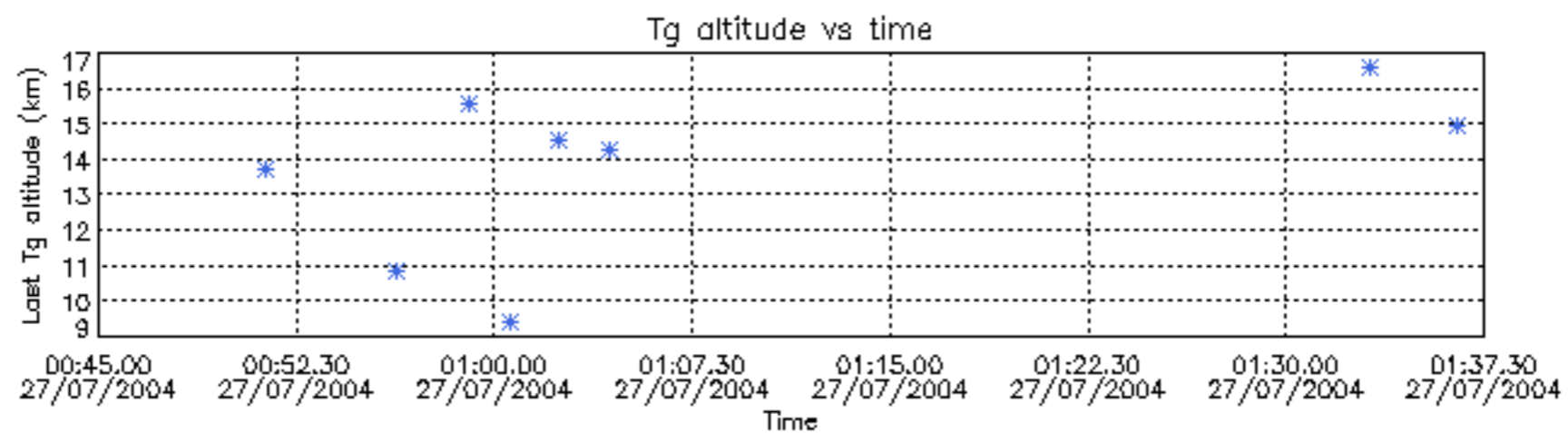
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 4; 36.9; 01-JUL-2004 01:38:44; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;12210  
 5; 314.6; 01-JUL-2004 01:43:22; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12210  
 6; 489.7; 01-JUL-2004 01:46:17; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;12210  
 7; 585.8; 01-JUL-2004 01:47:53; Dark ; 86.5; 18; 24Alp PsA ; 1.17; 9700;occ; 173; 0;12210  
 8; 746.2; 01-JUL-2004 01:50:33; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12210  
 9; 975.1; 01-JUL-2004 01:54:22; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;12210  
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 13; 1354.2; 01-JUL-2004 02:00:41; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;12210  
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 17; 1877.5; 01-JUL-2004 02:09:25; Bright; 40.5; 120; 1Del Oph ; 2.73; 3200;occ; 81; 0;12210  
 18; 1979.7; 01-JUL-2004 02:11:07; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;12210  
 19; 2119.5; 01-JUL-2004 02:13:27; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;12210  
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 21; 2445.7; 01-JUL-2004 02:18:53; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;12210  
 22; 2647.9; 01-JUL-2004 02:22:15; Bright; 48.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 97; 0;12210  
 23; 2806.6; 01-JUL-2004 02:24:54; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;12210  
 24; 2948.0; 01-JUL-2004 02:27:15; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;12210  
 25; 3190.4; 01-JUL-2004 02:31:18; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;12210  
 26; 3339.1; 01-JUL-2004 02:33:46; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;12210  
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 6;-1616.9; 01-JUL-2004 02:51:46; Dark ; 68.5; 53; 43Bet And ; 2.05; 3300;occ; 137; 0;12210  
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 8;-1058.3; 01-JUL-2004 03:01:05; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;12210  
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 19; 1062.4; 01-JUL-2004 03:36:25; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;12211  
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 21; 1267.9; 01-JUL-2004 03:39:51; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;12211  
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 25; 1746.8; 01-JUL-2004 03:47:50; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;12211  
 26; 1877.8; 01-JUL-2004 03:50:01; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;12211  
 27; 1979.9; 01-JUL-2004 03:51:43; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;12211  
 28; 2120.0; 01-JUL-2004 03:54:03; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;12211  
 29; 2282.2; 01-JUL-2004 03:56:45; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;12211  
 30; 2446.6; 01-JUL-2004 03:59:30; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;12211  
 31; 2647.3; 01-JUL-2004 04:02:50; Bright; 48.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 97; 0;12211  
 32; 2806.7; 01-JUL-2004 04:05:30; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;12211  
 33; 2950.6; 01-JUL-2004 04:07:54; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;12211  
 34; 3190.9; 01-JUL-2004 04:11:54; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;12211  
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13; 38.7; 01-JUL-2004 04:59:58; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;12212
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21; 1270.6; 01-JUL-2004 05:20:30; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;12212
22; 1356.2; 01-JUL-2004 05:21:55; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;12212
23; 1479.9; 01-JUL-2004 05:23:59; Bright; 47.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 95; 0;12212
24; 1642.7; 01-JUL-2004 05:26:42; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;12212
25; 1747.7; 01-JUL-2004 05:28:27; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;12212
26; 1878.6; 01-JUL-2004 05:30:38; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;12212
27; 1980.5; 01-JUL-2004 05:32:20; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;12212
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6;-1617.2; 01-JUL-2004 06:12:58; Dark ; 74.0; 53; 43Bet And ; 2.05; 3300;occ; 148; 0;12212
7;-1355.8; 01-JUL-2004 06:17:19; Dark ; 64.0; 50; 13Alp Ari ; 2.01; 4250;occ; 128; 0;12212
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15; 493.0; 01-JUL-2004 06:48:08; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;12213
16; 591.0; 01-JUL-2004 06:49:46; Dark ; 94.5; 18; 24Alp PsA ; 1.17; 9700;occ; 189; 0;12213
17; 747.9; 01-JUL-2004 06:52:23; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12213
18; 975.3; 01-JUL-2004 06:56:10; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;12213
19; 1063.4; 01-JUL-2004 06:57:39; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;12213
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21; 1271.1; 01-JUL-2004 07:01:06; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;12213
22; 1356.5; 01-JUL-2004 07:02:32; Dark ; 45.5; 116; 19Del Sgr ; 2.70; 4100;occ; 91; 0;12213
23; 1480.4; 01-JUL-2004 07:04:36; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;12213
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8;-3229.5; 01-JUL-2004 07:26:42; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;12213

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25; 364.7; 15-JUL-2004 14:28:48; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;12418
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27; 774.0; 15-JUL-2004 14:35:37; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;12418
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29; 1093.8; 15-JUL-2004 14:40:57; Dark ; 42.0; 147; Alp Ara ; 2.88; 26000;occ; 84; 0;12418
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```

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22; -523.4; 15-JUL-2004 15:54:36; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;12418
23; -429.4; 15-JUL-2004 15:56:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12418
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27;	2144.6;	22-JUL-2004	04:34:45;	Bright;	38.5;	168;	17Zet Aql	;	2.99;	11000;occ;	77;	0;	12512	
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29;	2733.3;	22-JUL-2004	04:44:34;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12512	
30;	2843.4;	22-JUL-2004	04:46:24;	Bright;	47.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	95;	0;	12512	
31;	2995.2;	22-JUL-2004	04:48:56;	Bright;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	12512	
32;	3154.4;	22-JUL-2004	04:51:35;	Bright;	44.0;	89;	5Alp Cep	;	2.45;	8000;occ;	88;	0;	12512	
33;	3440.9;	22-JUL-2004	04:56:22;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	12512	
34;	3584.4;	22-JUL-2004	04:58:45;	Bright;	53.5;	74;	11Bet Cas	;	2.27;	6600;occ;	107;	0;	12512	
35;	3683.9;	22-JUL-2004	05:00:25;	Bright;	3.5;	76;	27Gam Cas	;	2.30;	30000;occ;	7;	0;	12512	
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2;	-2017.0;	22-JUL-2004	05:06:00;	Bright;	45.0;	160;	23Gam Per	;	2.93;	4700;occ;	90;	0;	12512	
3;	-1930.4;	22-JUL-2004	05:07:26;	Bright;	47.0;	35;	33Alp Per	;	1.79;	6250;occ;	94;	0;	12512	
4;	-1822.8;	22-JUL-2004	05:09:14;	Bright;	72.0;	73;	57Gam1And	;	2.26;	13100;occ;	144;	0;	12512	
5;	-1643.4;	22-JUL-2004	05:12:13;	Dark	;	138.0;	53;	43Bet And	;	2.05;	3300;occ;	276;	0;	12512
6;	-1388.5;	22-JUL-2004	05:16:28;	Dark	;	50.0;	146;	25Eta Tau	;	2.87;	15200;occ;	100;	0;	12512
7;	-1294.9;	22-JUL-2004	05:18:02;	Dark	;	53.0;	13;	87Alp Tau	;	0.87;	3800;occ;	106;	0;	12512
8;	-1167.4;	22-JUL-2004	05:20:09;	Dark	;	39.0;	27;	24Gam Ori	;	1.64;	26000;occ;	78;	0;	12512
9;	-1051.9;	22-JUL-2004	05:22:05;	Dark	;	39.0;	30;	46Eps Ori	;	1.69;	30000;occ;	78;	0;	12512
10;	-915.1;	22-JUL-2004	05:24:22;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;occ;	104;	0;	12512
11;	-775.2;	22-JUL-2004	05:26:42;	Dark	;	43.0;	101;	11Alp Lep	;	2.58;	7000;occ;	86;	0;	12512
12;	-513.1;	22-JUL-2004	05:31:04;	Dark	;	40.5;	108;	Alp Col	;	2.65;	15200;occ;	81;	0;	12512
13;	-385.0;	22-JUL-2004	05:33:12;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12512
14;	-145.8;	22-JUL-2004	05:37:11;	Dark	;	46.0;	157;	The1Eri	;	2.91;	9300;occ;	92;	0;	12512
15;	214.0;	22-JUL-2004	05:43:11;	Dark	;	44.0;	9;	Alp Eri	;	0.45;	24000;occ;	88;	0;	12513
16;	388.7;	22-JUL-2004	05:46:05;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12513
17;	653.1;	22-JUL-2004	05:50:30;	Dark	;	46.0;	148;	Alp Tuc	;	2.88;	4100;occ;	92;	0;	12513
18;	753.4;	22-JUL-2004	05:52:10;	Dark	;	53.0;	63;	Bet Gru	;	2.15;	2800;occ;	106;	0;	12513
19;	839.1;	22-JUL-2004	05:53:36;	Dark	;	47.5;	31;	Alp Gru	;	1.73;	15200;occ;	95;	0;	12513
20;	1012.6;	22-JUL-2004	05:56:29;	Dark	;	84.5;	18;	24Alp PsA	;	1.17;	9700;occ;	169;	0;	12513
21;	1262.5;	22-JUL-2004	06:00:39;	Dark	;	40.5;	178;	Iot1Sco	;	3.02;	6550;occ;	81;	0;	12513
22;	1337.9;	22-JUL-2004	06:01:55;	Dark	;	43.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	87;	0;	12513
23;	1451.5;	22-JUL-2004	06:03:48;	Bright;	40.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	80;	0;	12513	
24;	1556.0;	22-JUL-2004	06:05:33;	Bright;	65.0;	142;	49Del Cap	;	2.85;	8900;occ;	130;	0;	12513	
25;	2010.3;	22-JUL-2004	06:13:07;	Bright;	38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	12513	
26;	2144.9;	22-JUL-2004	06:15:22;	Bright;	40.0;	168;	17Zet Aql	;	2.99;	11000;occ;	80;	0;	12513	
27;	2568.2;	22-JUL-2004	06:22:25;	Bright;	42.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	84;	0;	12513	
28;	2733.4;	22-JUL-2004	06:25:10;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12513	
29;	2843.1;	22-JUL-2004	06:27:00;	Bright;	47.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	95;	0;	12513	
30;	2995.7;	22-JUL-2004	06:29:32;	Bright;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	12513	
31;	3154.2;	22-JUL-2004	06:32:11;	Bright;	43.5;	89;	5Alp Cep	;	2.45;	8000;occ;	87;	0;	12513	
32;	3441.1;	22-JUL-2004	06:36:58;	Bright;	38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	12513	
33;	3584.2;	22-JUL-2004	06:39:21;	Bright;	52.0;	74;	11Bet Cas	;	2.27;	6600;occ;	104;	0;	12513	



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2;	-2353.1;	22-JUL-2004	06:41:00;	Bright;	51.0;	76;	27Gam Cas	;	2.30;	30000;occ;	102;	0;12513	
3;	-2017.2;	22-JUL-2004	06:46:36;	Bright;	47.0;	160;	23Gam Per	;	2.93;	4700;occ;	94;	0;12513	
4;	-1929.9;	22-JUL-2004	06:48:03;	Bright;	47.5;	35;	33Alp Per	;	1.79;	6250;occ;	95;	0;12513	
5;	-1823.1;	22-JUL-2004	06:49:50;	Bright;	69.0;	73;	57Gam1And	;	2.26;	13100;occ;	138;	0;12513	
6;	-1643.5;	22-JUL-2004	06:52:49;	Dark	;	170.5;	53;	43Bet And	;	2.05;	3300;occ;	341;	0;12513
7;	-1388.7;	22-JUL-2004	06:57:04;	Dark	;	49.0;	146;	25Eta Tau	;	2.87;	15200;occ;	98;	0;12513
8;	-1293.5;	22-JUL-2004	06:58:39;	Dark	;	53.5;	13;	87Alp Tau	;	0.87;	3800;occ;	107;	0;12513
9;	-1167.3;	22-JUL-2004	07:00:45;	Dark	;	39.5;	27;	24Gam Ori	;	1.64;	26000;occ;	79;	0;12513
10;	-1051.3;	22-JUL-2004	07:02:41;	Dark	;	39.5;	30;	46Eps Ori	;	1.69;	30000;occ;	79;	0;12513
11;	-914.8;	22-JUL-2004	07:04:58;	Dark	;	46.5;	7;	19Bet Ori	;	0.10;	14000;occ;	93;	0;12513
12;	-774.6;	22-JUL-2004	07:07:18;	Dark	;	42.5;	101;	11Alp Lep	;	2.58;	7000;occ;	85;	0;12513
13;	-512.9;	22-JUL-2004	07:11:40;	Dark	;	40.5;	108;	Alp Col	;	2.65;	15200;occ;	81;	0;12513
14;	-384.5;	22-JUL-2004	07:13:48;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;12513
15;	-144.6;	22-JUL-2004	07:17:48;	Dark	;	46.0;	157;	The1Eri	;	2.91;	9300;occ;	92;	0;12513
16;	214.8;	22-JUL-2004	07:23:48;	Dark	;	56.0;	9;	Alp Eri	;	0.45;	24000;occ;	112;	0;12514
17;	389.5;	22-JUL-2004	07:26:42;	Dark	;	40.5;	135;	Bet Hyi	;	2.82;	5800;occ;	81;	0;12514
18;	653.6;	22-JUL-2004	07:31:06;	Dark	;	45.0;	148;	Alp Tuc	;	2.88;	4100;occ;	90;	0;12514
19;	754.4;	22-JUL-2004	07:32:47;	Dark	;	65.0;	63;	Bet Gru	;	2.15;	2800;occ;	130;	0;12514
20;	839.8;	22-JUL-2004	07:34:12;	Dark	;	48.5;	31;	Alp Gru	;	1.73;	15200;occ;	97;	0;12514
21;	1013.5;	22-JUL-2004	07:37:06;	Dark	;	94.5;	18;	24Alp PsA	;	1.17;	9700;occ;	189;	0;12514
22;	1262.6;	22-JUL-2004	07:41:15;	Dark	;	41.0;	178;	Iot1Sco	;	3.02;	6550;occ;	82;	0;12514
23;	1338.0;	22-JUL-2004	07:42:31;	Dark	;	45.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	90;	0;12514
24;	1452.1;	22-JUL-2004	07:44:25;	Bright;	38.5;	57;	34Sig Sgr	;	2.07;	26000;occ;	77;	0;12514	
25;	1556.1;	22-JUL-2004	07:46:09;	Bright;	66.5;	142;	49Del Cap	;	2.85;	8900;occ;	133;	0;12514	

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1;	-4025.3;	22-JUL-2004	07:53:43;	Bright;	38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;12514	
2;	-3891.0;	22-JUL-2004	07:55:58;	Bright;	37.5;	168;	17Zet Aql	;	2.99;	11000;occ;	75;	0;12514	
3;	-3467.7;	22-JUL-2004	08:03:01;	Bright;	42.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	84;	0;12514	
4;	-3303.0;	22-JUL-2004	08:05:46;	Bright;	40.5;	144;	18Del Cyg	;	2.86;	11000;occ;	81;	0;12514	
5;	-3193.5;	22-JUL-2004	08:07:35;	Bright;	47.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	95;	0;12514	
6;	-3040.0;	22-JUL-2004	08:10:09;	Bright;	37.5;	119;	14Eta Dra	;	2.73;	4700;occ;	75;	0;12514	
7;	-2882.2;	22-JUL-2004	08:12:46;	Bright;	43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;12514	
8;	-2594.7;	22-JUL-2004	08:17:34;	Bright;	38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;12514	
9;	-2452.2;	22-JUL-2004	08:19:56;	Bright;	53.0;	74;	11Bet Cas	;	2.27;	6600;occ;	106;	0;12514	
10;	-2353.1;	22-JUL-2004	08:21:36;	Bright;	48.5;	76;	27Gam Cas	;	2.30;	30000;occ;	97;	0;12514	
11;	-2017.0;	22-JUL-2004	08:27:12;	Bright;	54.0;	160;	23Gam Per	;	2.93;	4700;occ;	108;	0;12514	
12;	-1929.3;	22-JUL-2004	08:28:39;	Bright;	47.0;	35;	33Alp Per	;	1.79;	6250;occ;	94;	0;12514	
13;	-1823.0;	22-JUL-2004	08:30:26;	Bright;	67.0;	73;	57Gam1And	;	2.26;	13100;occ;	134;	0;12514	
14;	-1643.7;	22-JUL-2004	08:33:25;	Dark	;	145.0;	53;	43Bet And	;	2.05;	3300;occ;	290;	0;12514
15;	-1387.8;	22-JUL-2004	08:37:41;	Dark	;	50.0;	146;	25Eta Tau	;	2.87;	15200;occ;	100;	0;12514
16;	-1293.5;	22-JUL-2004	08:39:15;	Dark	;	51.5;	13;	87Alp Tau	;	0.87;	3800;occ;	103;	0;12514
17;	-1167.9;	22-JUL-2004	08:41:21;	Dark	;	45.0;	27;	24Gam Ori	;	1.64;	26000;occ;	90;	0;12514
18;	-1051.9;	22-JUL-2004	08:43:17;	Dark	;	41.0;	30;	46Eps Ori	;	1.69;	30000;occ;	82;	0;12514
19;	-914.8;	22-JUL-2004	08:45:34;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;occ;	104;	0;12514
20;	-775.3;	22-JUL-2004	08:47:53;	Dark	;	41.0;	101;	11Alp Lep	;	2.58;	7000;occ;	82;	0;12514
21;	-512.7;	22-JUL-2004	08:52:16;	Dark	;	38.5;	108;	Alp Col	;	2.65;	15200;occ;	77;	0;12514
22;	-383.9;	22-JUL-2004	08:54:25;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;12514
23;	-144.1;	22-JUL-2004	08:58:24;	Dark	;	45.0;	157;	The1Eri	;	2.91;	9300;occ;	90;	0;12514
24;	215.5;	22-JUL-2004	09:04:24;	Dark	;	55.0;	9;	Alp Eri	;	0.45;	24000;occ;	110;	0;12515
25;	389.7;	22-JUL-2004	09:07:18;	Dark	;	38.0;	135;	Bet Hyi	;	2.82;	5800;occ;	76;	0;12515
26;	654.6;	22-JUL-2004	09:11:43;	Dark	;	43.5;	148;	Alp Tuc	;	2.88;	4100;occ;	87;	0;12515
27;	754.9;	22-JUL-2004	09:13:23;	Dark	;	57.0;	63;	Bet Gru	;	2.15;	2800;occ;	114;	0;12515
28;	840.4;	22-JUL-2004	09:14:49;	Dark	;	52.5;	31;	Alp Gru	;	1.73;	15200;occ;	105;	0;12515
29;	1014.5;	22-JUL-2004	09:17:43;	Dark	;	84.5;	18;	24Alp PsA	;	1.17;	9700;occ;	169;	0;12515
30;	1338.2;	22-JUL-2004	09:23:07;	Dark	;	41.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	83;	0;12515
31;	1452.2;	22-JUL-2004	09:25:01;	Bright;	40.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	80;	0;12515	
32;	1556.1;	22-JUL-2004	09:26:45;	Bright;	67.5;	142;	49Del Cap	;	2.85;	8900;occ;	135;	0;12515	

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2;	-3891.0;	22-JUL-2004	09:36:34;	Bright;	38.5;	168;	17Zet Aql	;	2.99;	11000;occ;	77;	0;12515
3;	-3467.9;	22-JUL-2004	09:43:37;	Bright;	42.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	85;	0;12515
4;	-3303.6;	22-JUL-2004	09:46:21;	Bright;	40.5;	144;	18Del Cyg	;	2.86;	11000;occ;	81;	0;12515
5;	-3194.2;	22-JUL-2004	09:48:10;	Bright;	46.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	92;	0;12515
6;	-3039.9;	22-JUL-2004	09:50:45;	Bright;	37.5;	119;	14Eta Dra	;	2.73;	4700;occ;	75;	0;12515
7;	-2595.0;	22-JUL-2004	09:58:10;	Bright;	39.0;	49;	1Alp UMi	;	1.99;	6300;occ;	78;	0;12515
8;	-2452.8;	22-JUL-2004	10:00:32;	Bright;	53.5;	74;	11Bet Cas	;	2.27;	6600;occ;	107;	0;12515

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9;-2353.6; 22-JUL-2004 10:02:11; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;12515
10;-2017.1; 22-JUL-2004 10:07:47; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;12515
11;-1929.2; 22-JUL-2004 10:09:15; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;12515
12;-1823.4; 22-JUL-2004 10:11:01; Bright; 65.0; 73; 57Gam1And ; 2.26; 13100;occ; 130; 0;12515
13;-1643.8; 22-JUL-2004 10:14:01; Dark ; 146.0; 53; 43Bet And ; 2.05; 3300;occ; 292; 0;12515
14;-1387.6; 22-JUL-2004 10:18:17; Dark ; 50.5; 146; 25Eta Tau ; 2.87; 15200;occ; 101; 0;12515
15;-1293.3; 22-JUL-2004 10:19:51; Dark ; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;12515
16;-1167.7; 22-JUL-2004 10:21:57; Dark ; 45.0; 27; 24Gam Ori ; 1.64; 26000;occ; 90; 0;12515
17;-1053.6; 22-JUL-2004 10:23:51; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;12515
18; -914.5; 22-JUL-2004 10:26:10; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;12515
19; -722.5; 22-JUL-2004 10:29:22; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;12515
20; -512.5; 22-JUL-2004 10:32:52; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;12515
21; -383.4; 22-JUL-2004 10:35:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12515
22; -142.6; 22-JUL-2004 10:39:02; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;12515
23; 215.7; 22-JUL-2004 10:45:00; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;12516
24; 389.4; 22-JUL-2004 10:47:54; Dark ; 39.0; 135; Bet Hyi ; 2.82; 5800;occ; 78; 0;12516
25; 654.9; 22-JUL-2004 10:52:19; Dark ; 44.5; 148; Alp Tuc ; 2.88; 4100;occ; 89; 0;12516
26; 755.2; 22-JUL-2004 10:54:00; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;12516
27; 840.8; 22-JUL-2004 10:55:25; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;12516
28; 1018.3; 22-JUL-2004 10:58:23; Dark ; 81.0; 18; 24Alp PsA ; 1.17; 9700;occ; 162; 0;12516
29; 1337.8; 22-JUL-2004 11:03:42; Dark ; 42.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 85; 0;12516
30; 1451.4; 22-JUL-2004 11:05:36; Bright; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;12516
31; 1556.4; 22-JUL-2004 11:07:21; Bright; 65.0; 142; 49Del Cap ; 2.85; 8900;occ; 130; 0;12516
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27; 1843.1; 26-JUL-2004 04:03:52; Bright; 64.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 129; 0;12569
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30; 419.4; 30-JUL-2004 16:39:03; Dark ; 40.5; 135; Bet Hyi ; 2.82; 5800;occ; 81; 0;12634
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26; -25.9; 31-JUL-2004 17:40:37; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;12648
27; 305.4; 31-JUL-2004 17:46:08; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;12649
28; 421.3; 31-JUL-2004 17:48:04; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;12649
29; 590.5; 31-JUL-2004 17:50:53; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;12649
30; 716.2; 31-JUL-2004 17:52:59; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;12649
31; 917.5; 31-JUL-2004 17:56:20; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;12649

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