

# GOMOS Daily Report 13-FEB-2004

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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	14FEB2004 06:53:43
Data source version	<Any version>
Start time of products	13-FEB-2004 (13FEB2004 00:00:00)
Stop time of products	14-FEB-2004 (14FEB2004 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

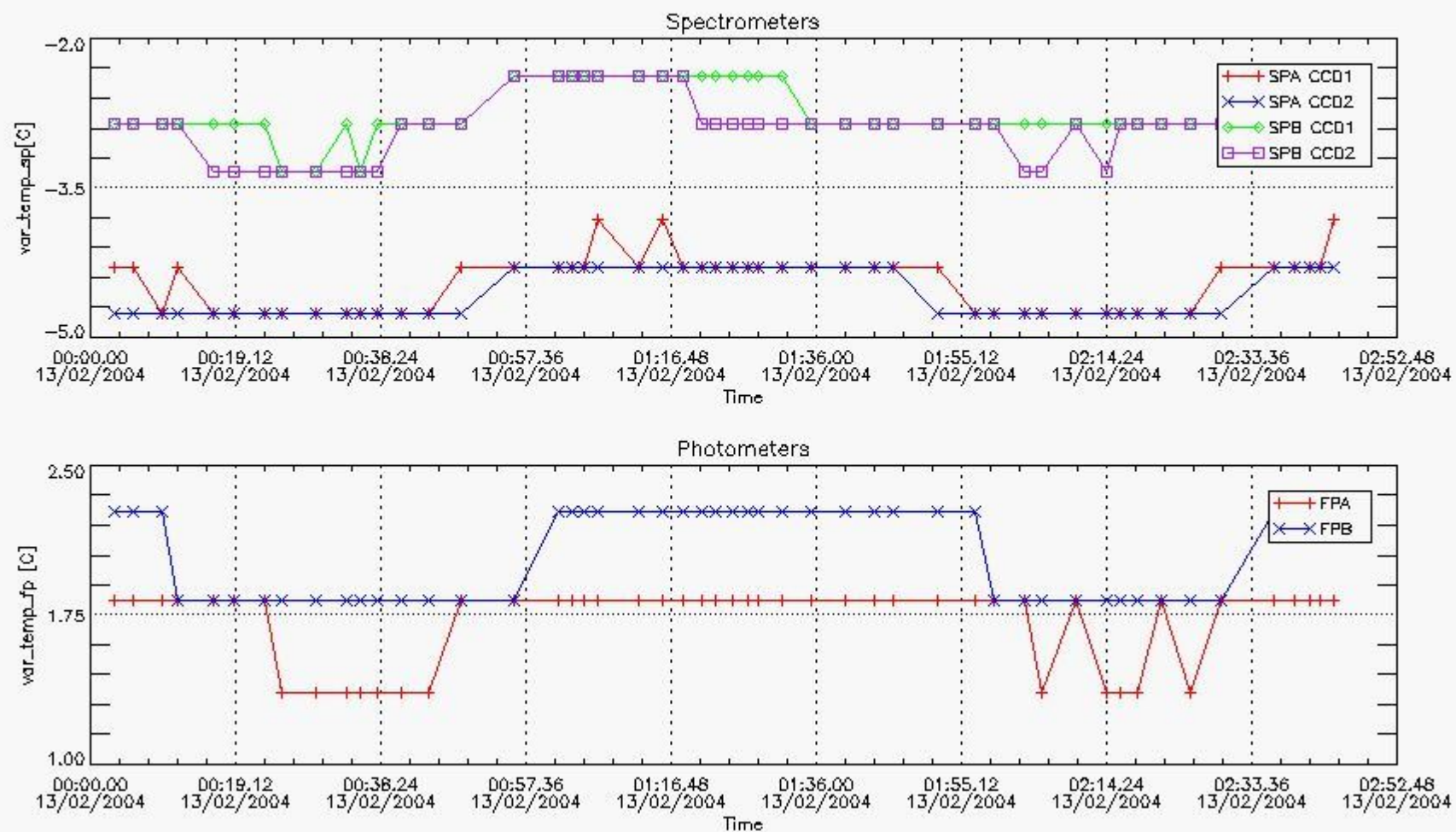
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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
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GOM_TRA_1PNPDE20040213_000307_000000402024_00145_10219_0004.N1	13-FEB-2004 00:03:07	Bright	39.500	44	24Gam Gem	1.9280	11000.	79	10219	No
GOM_TRA_1PNPDE20040213_000534_000000402024_00145_10219_0005.N1	13-FEB-2004 00:05:34	Bright	39.500	17	78Bet Gem	1.1610	4500.0	79	10219	No
GOM_TRA_1PNPDE20040213_000931_000000392024_00145_10219_0006.N1	13-FEB-2004 00:09:31	Bright	38.500	107	37The Aur	2.6490	11000.	77	10219	No
GOM_TRA_1PNPDE20040213_001129_000000382024_00145_10219_0007.N1	13-FEB-2004 00:11:29	Bright	38.000	42	34Bet Aur	1.9000	10200.	76	10219	No
GOM_TRA_1PNPDE20040213_001619_000000542024_00145_10219_0008.N1	13-FEB-2004 00:16:19	Bright	54.000	174	52Psi UMa	3.0040	4400.0	108	10219	No
GOM_TRA_1PNPDE20040213_001851_000000412024_00145_10219_0009.N1	13-FEB-2004 00:18:51	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	10219	No
GOM_TRA_1PNPDE20040213_002300_000000342024_00145_10219_0010.N1	13-FEB-2004 00:23:00	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	10219	No
GOM_TRA_1PNPDE20040213_002518_000000392024_00145_10219_0011.N1	13-FEB-2004 00:25:18	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	10219	No
GOM_TRA_1PNPDE20040213_002948_000000382024_00145_10219_0012.N1	13-FEB-2004 00:29:48	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	10219	No
GOM_TRA_1PNPDE20040213_003348_000000422024_00145_10219_0013.N1	13-FEB-2004 00:33:48	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	10219	No
GOM_TRA_1PNPDE20040213_003536_000000352024_00145_10219_0014.N1	13-FEB-2004 00:35:36	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	10219	No
GOM_TRA_1PNPDE20040213_003754_000000372024_00145_10219_0015.N1	13-FEB-2004 00:37:54	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	10219	No
GOM_TRA_1PNPDE20040213_004101_000000532024_00145_10219_0016.N1	13-FEB-2004 00:41:01	Bright	52.500	133	40Zet Her	2.8070	6000.0	105	10219	No
GOM_TRA_1PNPDE20040213_004447_000000942024_00145_10219_0017.N1	13-FEB-2004 00:44:47	Dark	94.000	67	5Alp CrB	2.2210	11000.	188	10219	No
GOM_TRA_1PNPDE20040213_004859_000000482024_00145_10219_0018.N1	13-FEB-2004 00:48:59	Bright	47.500	126	60Bet Oph	2.7700	4250.0	95	10219	No
GOM_TRA_1PNPDE20040213_005555_000000442024_00145_10219_0019.N1	13-FEB-2004 00:55:55	Dark	43.500	57	34Sig Sgr	2.0660	26000.	87	10219	No
GOM_TRA_1PNPDE20040213_010157_000000462024_00145_10219_0020.N1	13-FEB-2004 01:01:57	Dark	46.000	40	The Sco	1.8590	7100.0	92	10219	No
GOM_TRA_1PNPDE20040213_010345_000000412024_00145_10219_0021.N1	13-FEB-2004 01:03:45	Dark	41.000	147	Alp Ara	2.8770	26000.	82	10219	No
GOM_TRA_1PNPDE20040213_010513_000000422024_00145_10219_0022.N1	13-FEB-2004 01:05:13	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	10219	No
GOM_TRA_1PNPDE20040213_010658_000000472024_00146_10220_0023.N1	13-FEB-2004 01:06:58	Dark	46.500	131	Gam Lup	2.8000	26000.	93	10220	No
GOM_TRA_1PNPDE20040213_011232_000000502024_00146_10220_0024.N1	13-FEB-2004 01:12:32	Dark	49.500	10	Bet Cen	0.61000	28000.	99	10220	No
GOM_TRA_1PNPDE20040213_011542_000000472024_00146_10220_0025.N1	13-FEB-2004 01:15:42	Dark	46.500	12	Alp1Cru	0.77500	30000.	93	10220	No
GOM_TRA_1PNPDE20040213_011822_000000392024_00146_10220_0026.N1	13-FEB-2004 01:18:22	Dark	39.000	29	Bet Car	1.6720	10200.	78	10220	No
GOM_TRA_1PNPDE20040213_012056_000000412024_00146_10220_0027.N1	13-FEB-2004 01:20:56	Dark	40.500	71	lot Car	2.2460	7700.0	81	10220	No
GOM_TRA_1PNPDE20040213_012235_000000402024_00146_10220_0028.N1	13-FEB-2004 01:22:35	Dark	40.000	46	Del Vel	1.9540	10600.	80	10220	No
GOM_TRA_1PNPDE20040213_012459_000000432024_00146_10220_0029.N1	13-FEB-2004 01:24:59	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	10220	No
GOM_TRA_1PNPDE20040213_012702_000000432024_00146_10220_0030.N1	13-FEB-2004 01:27:02	Dark	42.500	70	Zet Pup	2.2460	39000.	85	10220	No
GOM_TRA_1PNPDE20040213_012819_000000452024_00146_10220_0031.N1	13-FEB-2004 01:28:19	Dark	45.000	117	Pi Pup	2.7060	3800.0	90	10220	No
GOM_TRA_1PNPDE20040213_013124_000000482024_00146_10220_0000.N1	13-FEB-2004 01:31:24	Dark	48.000	37	25Del CMa	1.8300	5900.0	96	10220	No
GOM_TRA_1PNPDE20040213_013522_000000572024_00146_10220_0001.N1	13-FEB-2004 01:35:22	Dark	57.000	48	30Alp Hya	1.9770	4100.0	114	10220	No
GOM_TRA_1PNPDE20040213_013948_000000522024_00146_10220_0002.N1	13-FEB-2004 01:39:48	Dark	52.000	8	10Alp CMi	0.40000	6500.0	104	10220	No
GOM_TRA_1PNPDE20040213_014343_000000422024_00146_10220_0003.N1	13-FEB-2004 01:43:43	Bright	41.500	44	24Gam Gem	1.9280	11000.	83	10220	No
GOM_TRA_1PNPDE20040213_014610_000000422024_00146_10220_0004.N1	13-FEB-2004 01:46:10	Bright	41.500	17	78Bet Gem	1.1610	4500.0	83	10220	No
GOM_TRA_1PNPDE20040213_015205_000000402024_00146_10220_0005.N1	13-FEB-2004 01:52:05	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	10220	No
GOM_TRA_1PNPDE20040213_015654_000000562024_00146_10220_0006.N1	13-FEB-2004 01:56:54	Bright	56.000	174	52Psi UMa	3.0040	4400.0	112	10220	No
GOM_TRA_1PNPDE20040213_015927_000000452024_00146_10220_0007.N1	13-FEB-2004 01:59:27	Bright	45.000	36	50Alp UMa	1.8000	6300.0	90	10220	No
GOM_TRA_1PNPDE20040213_020335_000000362024_00146_10220_0008.N1	13-FEB-2004 02:03:35	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	10220	No
GOM_TRA_1PNPDE20040213_020553_000000392024_00146_10220_0009.N1	13-FEB-2004 02:05:53	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	10220	No
GOM_TRA_1PNPDE20040213_021023_000000362024_00146_10220_0010.N1	13-FEB-2004 02:10:23	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	10220	No
GOM_TRA_1PNPDE20040213_021423_000000432024_00146_10220_0011.N1	13-FEB-2004 02:14:23	Bright	42.500	130	23Bet Dra	2.7990	5800.0	85	10220	No
GOM_TRA_1PNPDE20040213_021612_000000372024_00146_10220_0012.N1	13-FEB-2004 02:16:12	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	10220	No
GOM_TRA_1PNPDE20040213_021830_000000392024_00146_10220_0013.N1	13-FEB-2004 02:18:30	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	10220	No
GOM_TRA_1PNPDE20040213_022137_000000552024_00146_10220_0014.N1	13-FEB-2004 02:21:37	Bright	54.500	133	40Zet Her	2.8070	6000.0	109	10220	No
GOM_TRA_1PNPDE20040213_022523_000001012024_00146_10220_0015.N1	13-FEB-2004 02:25:23	Dark	100.50	67	5Alp CrB	2.2210	11000.	201	10220	No
GOM_TRA_1PNPDE20040213_022935_000000492024_00146_10220_0016.N1	13-FEB-2004 02:29:35	Bright	49.000	126	60Bet Oph	2.7700	4250.0	98	10220	No
GOM_TRA_1PNPDE20040213_023632_000000422024_00146_10220_0017.N1	13-FEB-2004 02:36:32	Dark	41.500	57	34Sig Sgr	2.0660	26000.	83	10220	No
GOM_TRA_1PNPDE20040213_023914_000000412024_00146_10220_0018.N1	13-FEB-2004 02:39:14	Dark	40.500	38	20Eps Sgr	1.8360	11000.	81	10220	No
GOM_TRA_1PNPDE20040213_024115_000000432024_00146_10220_0019.N1	13-FEB-2004 02:41:15	Dark	43.000	25	35Lam Sco	1.6200	28000.	86	10220	No
GOM_TRA_1PNPDE20040213_024234_000000432024_00146_10220_0020.N1	13-FEB-2004 02:42:34	Dark	43.000	40	The Sco	1.8590	7100.0	86	10220	No
GOM_TRA_1PNPDE20040213_024421_000000402024_00146_10220_0021.N1	13-FEB-2004 02:44:21	Dark	40.000	147	Alp Ara	2.8770	26000.	80	10220	No

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



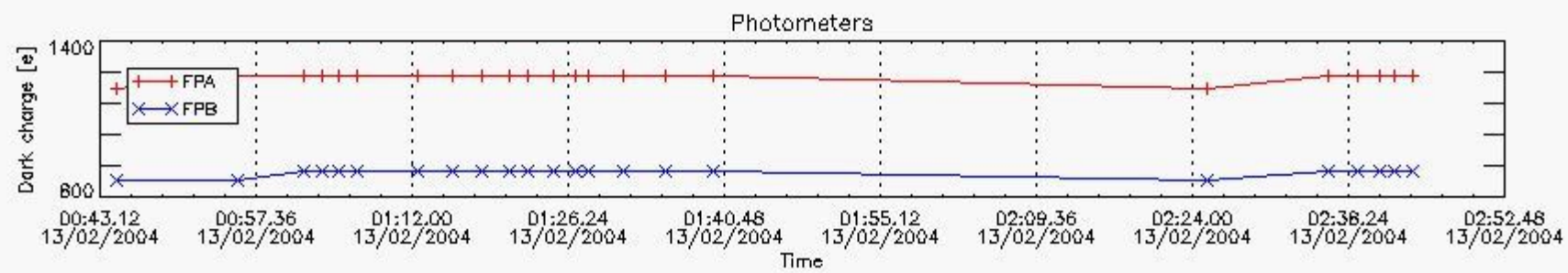
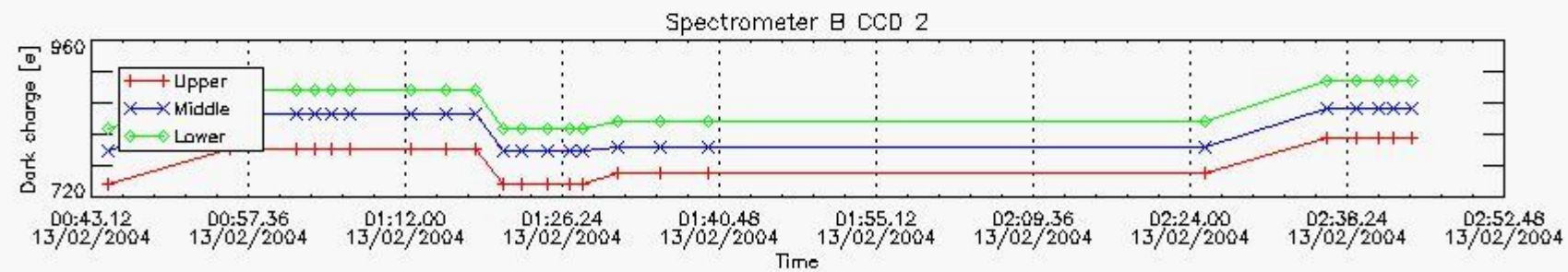
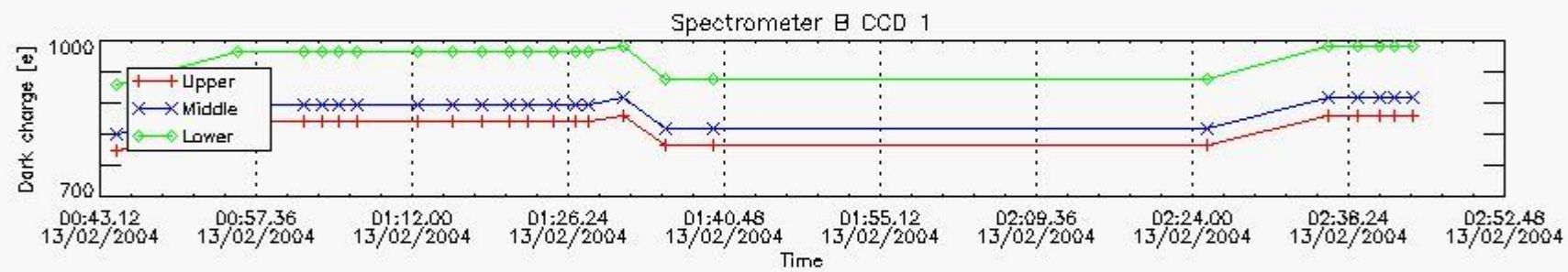
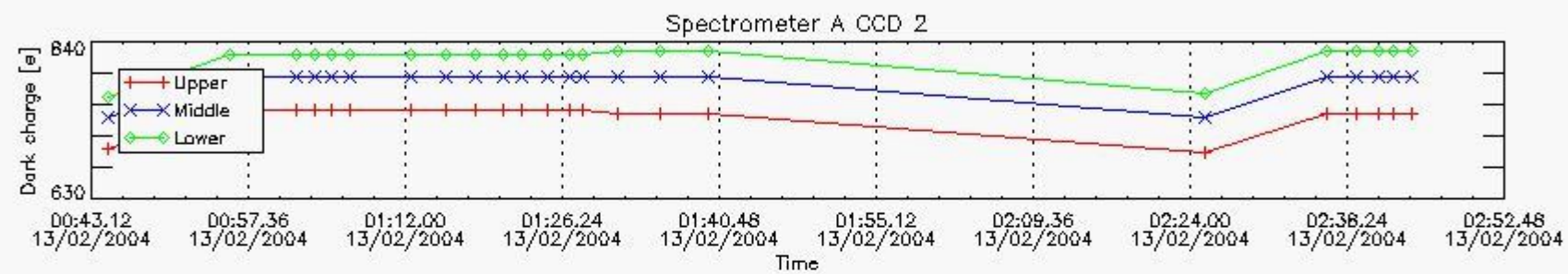
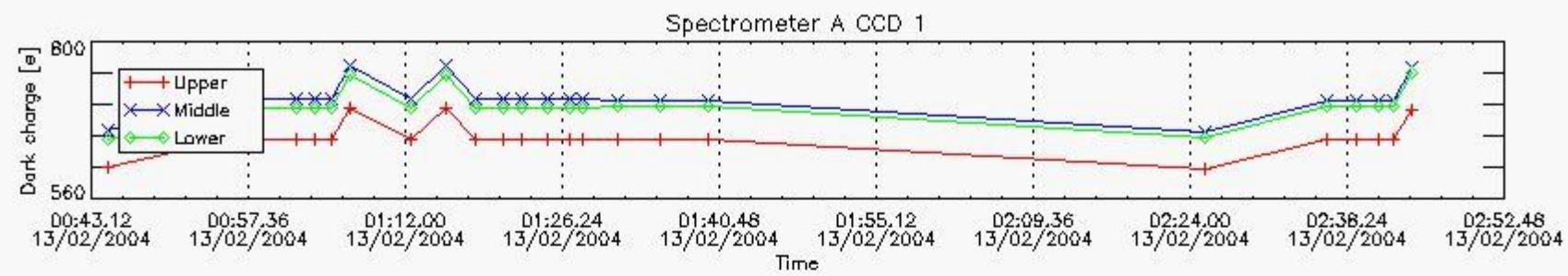
#### 4. Overview of dark signal processing per product

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

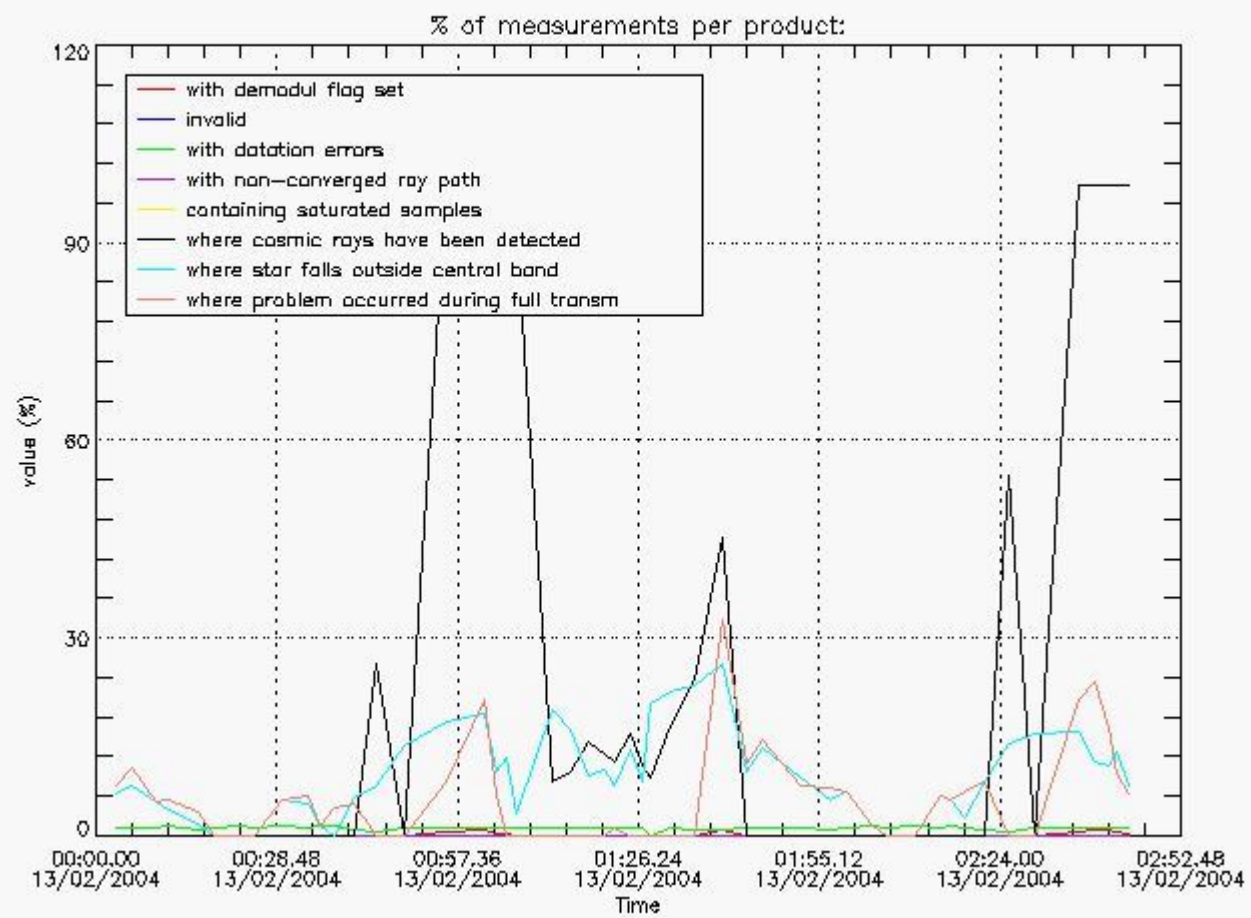


## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	26.0000 %
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



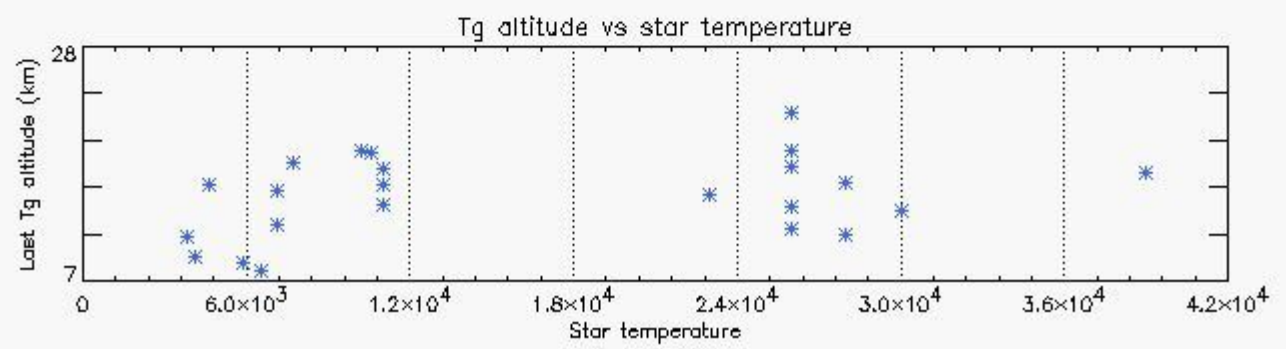
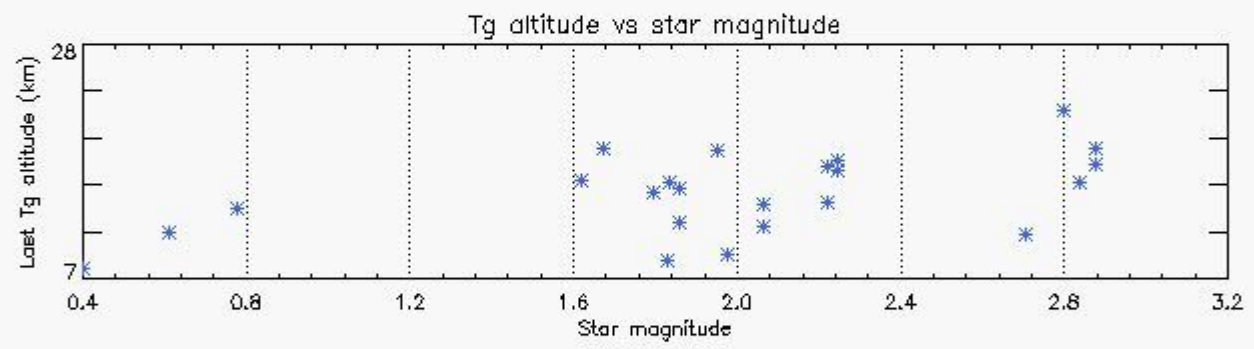
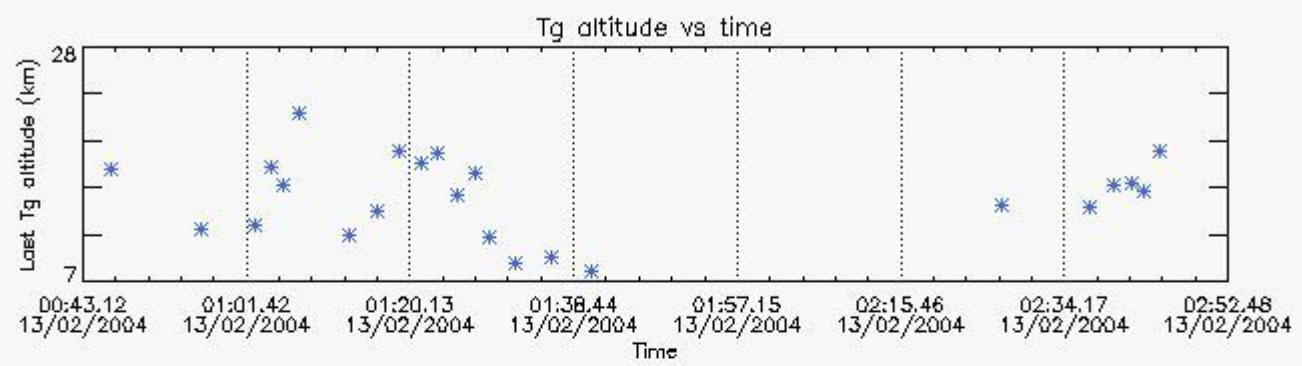
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

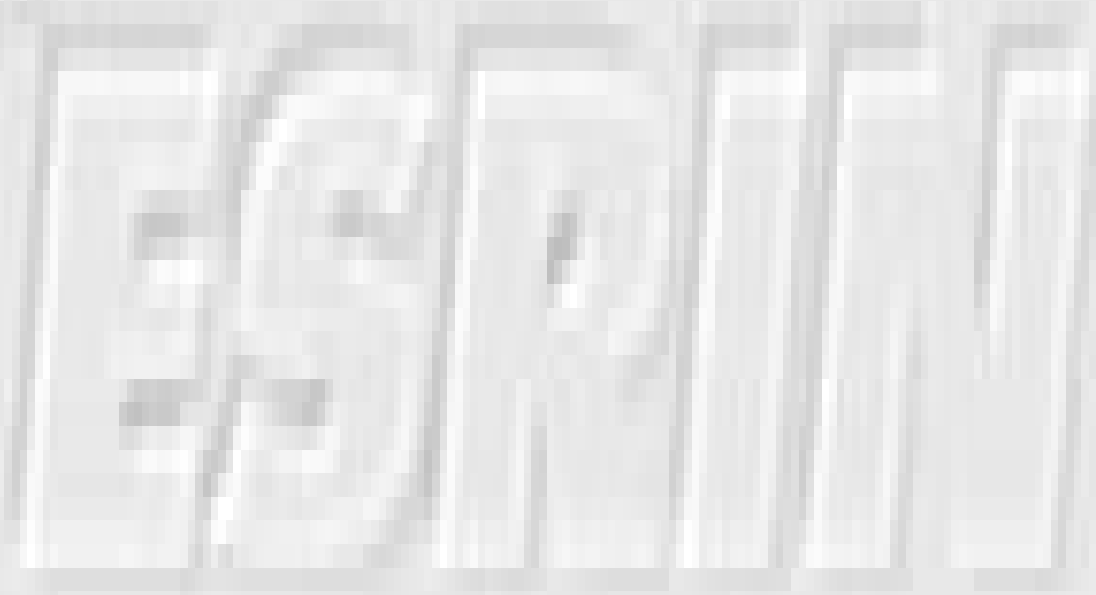
Statistics	DARK	BRIGHT
Mean:	14.584	21.268
St. deviation:	3.6175	4.3830
Maximum:	22.093	29.177
Minimum:	7.9517	12.282
Number of data:	23.000	27.000

### 6.2 Plot for DARK limb products

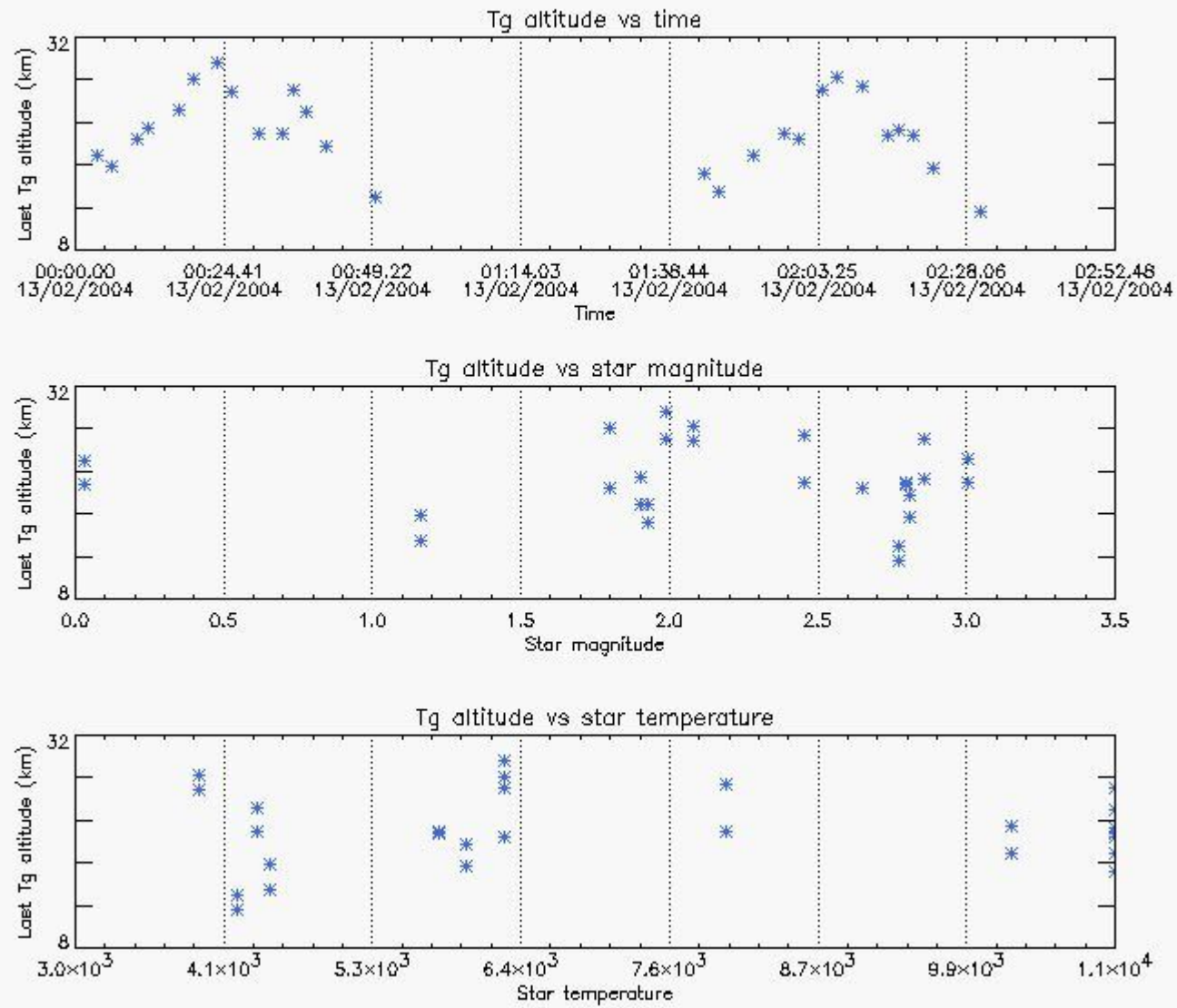
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



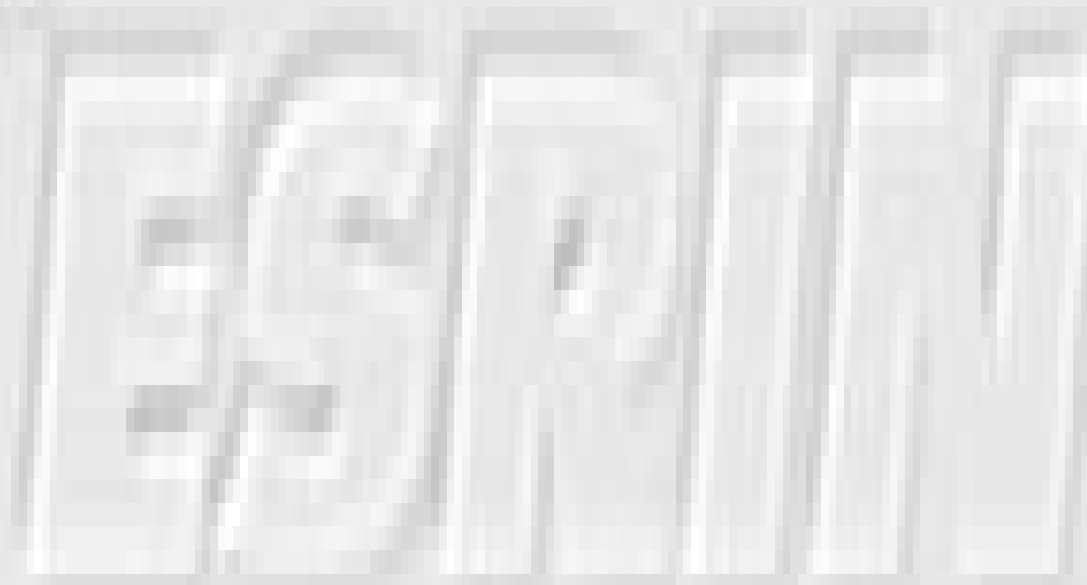
### Tangent altitude at which the star is lost



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

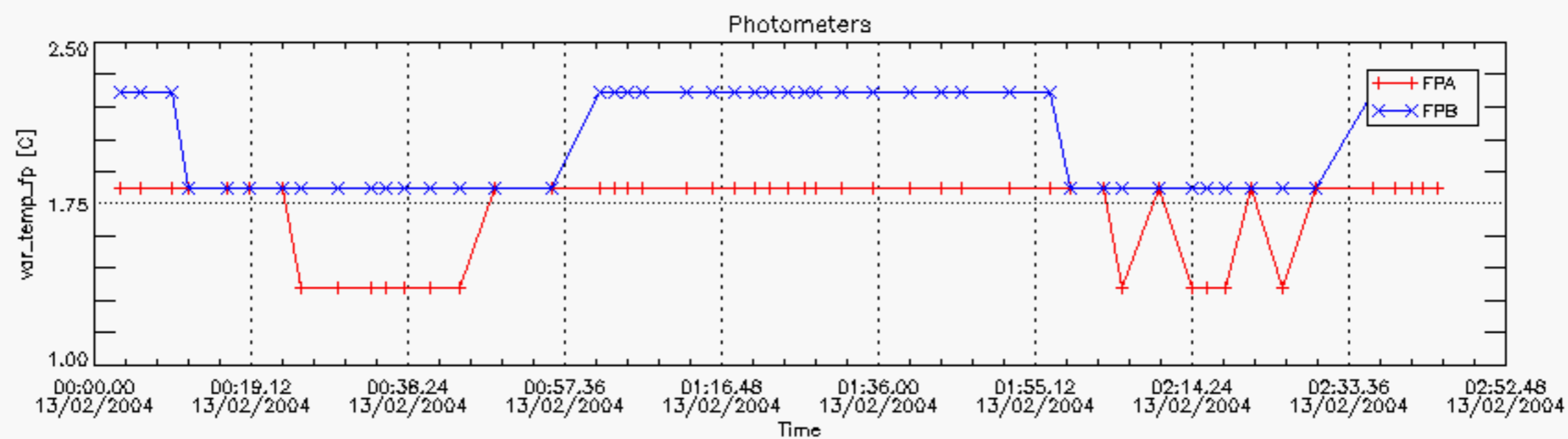
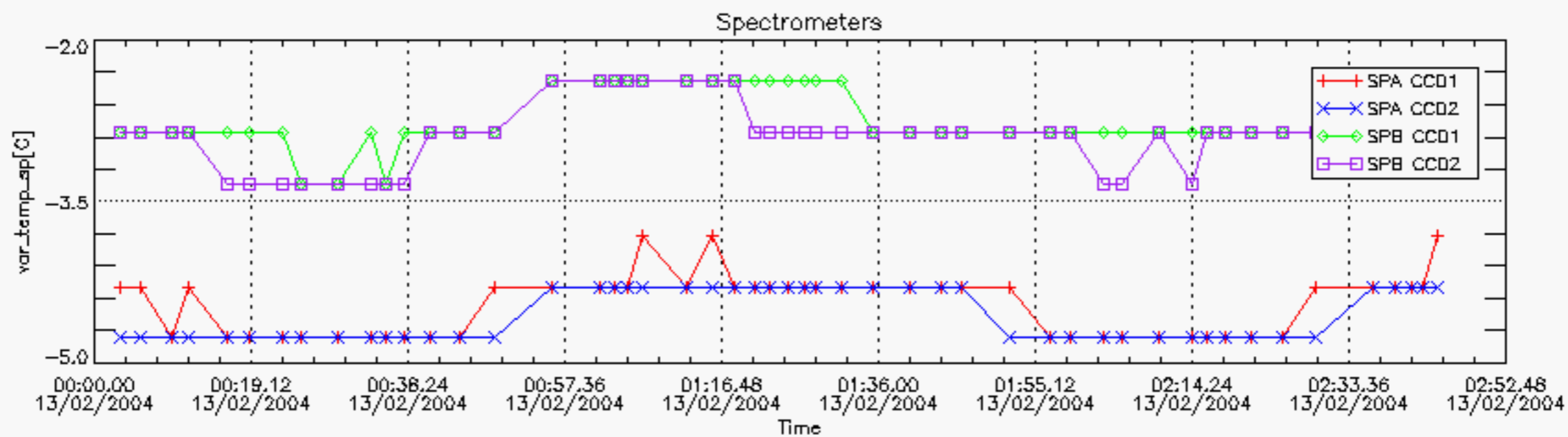
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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.

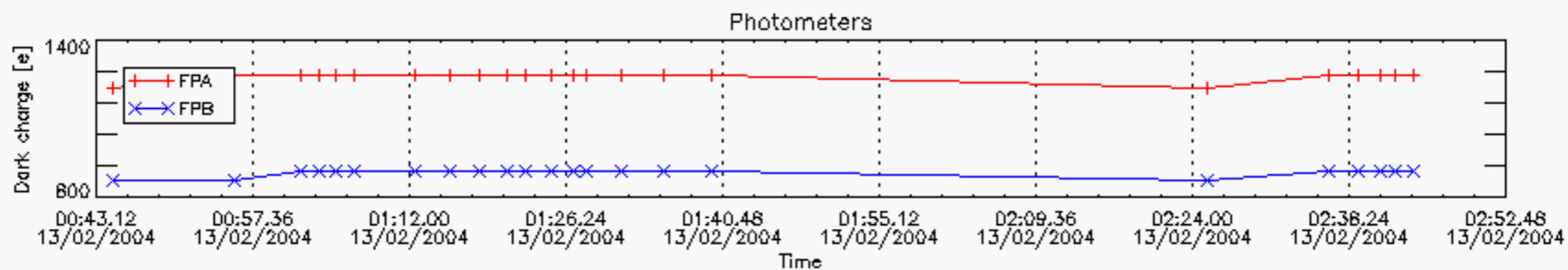
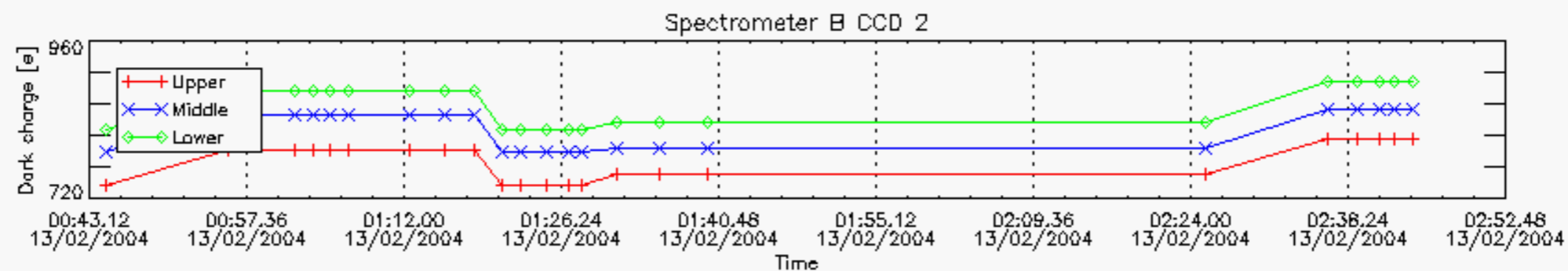
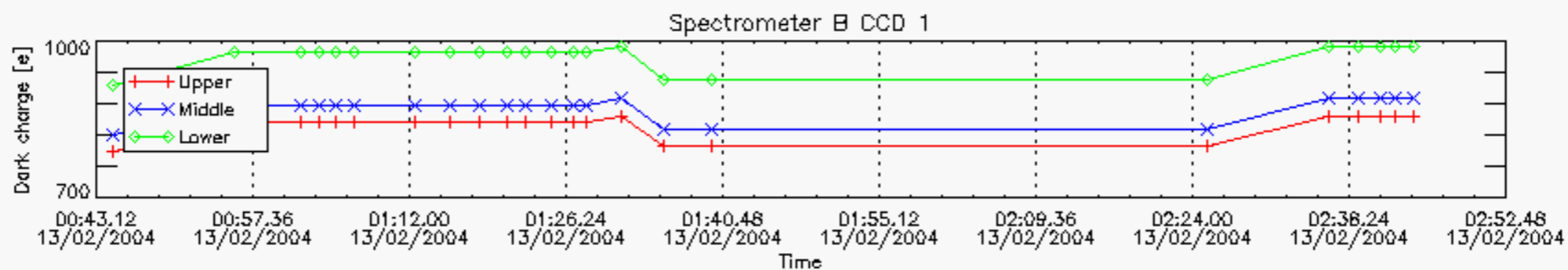
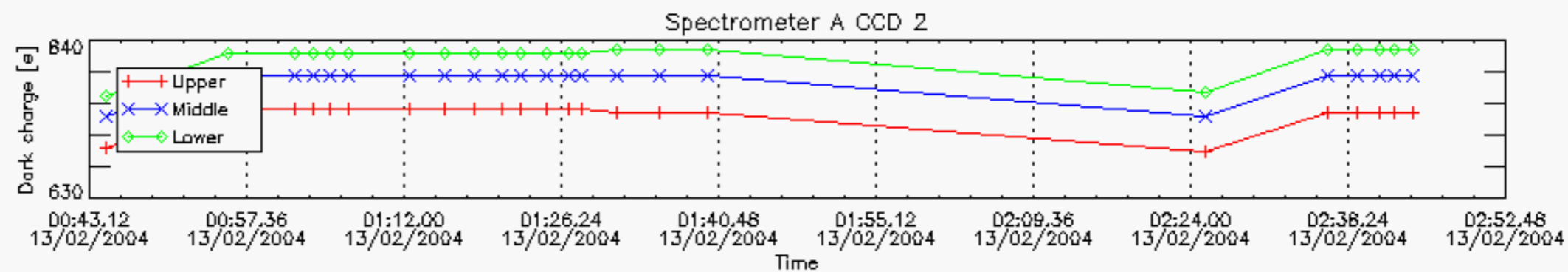
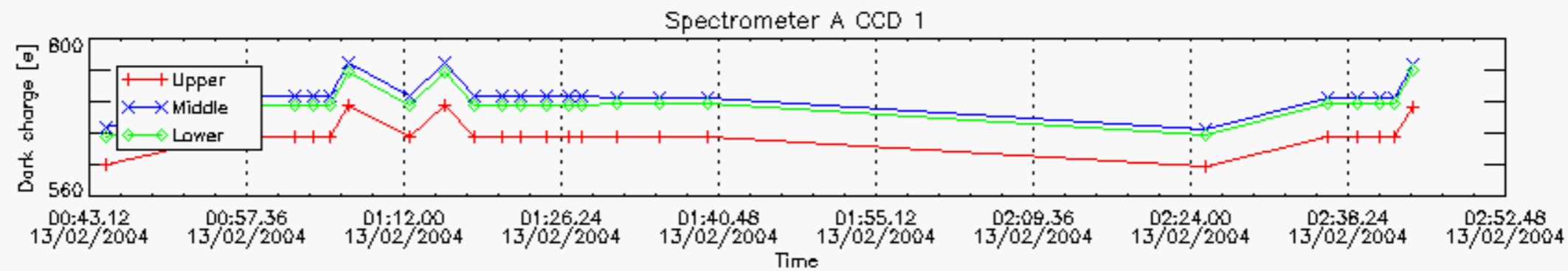
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.6	1447.2	1460.6	1447.0
St. deviation:	5.5632	8.2630	6.4651	8.6858
Maximum:	1533.0	1582.0	1514.0	1506.0
Minimum:	1423.0	1394.0	1446.0	1428.0
Number of data:	27750.	27750.	29900.	29900.





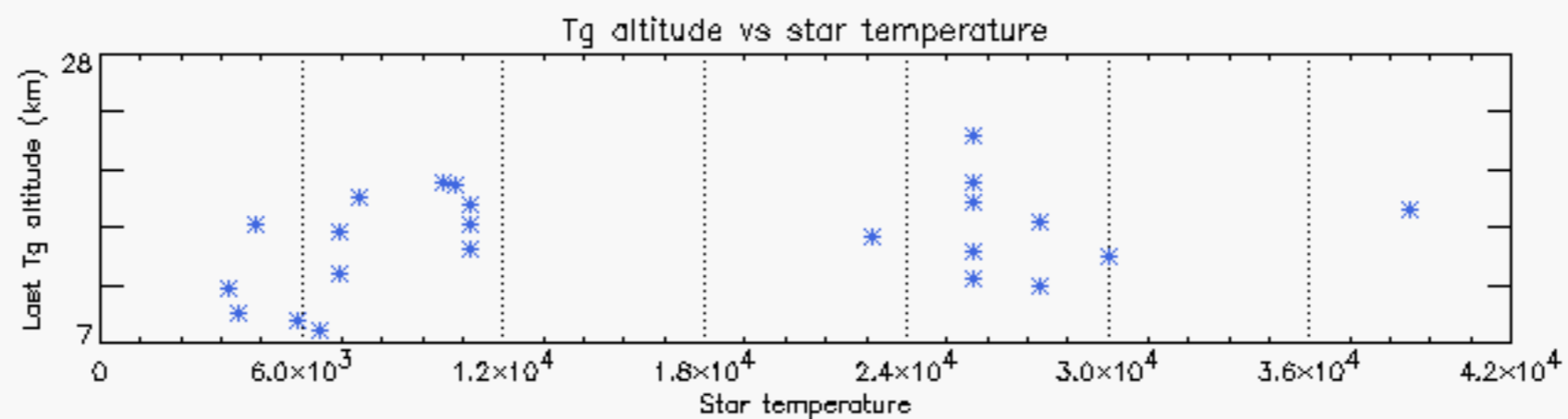
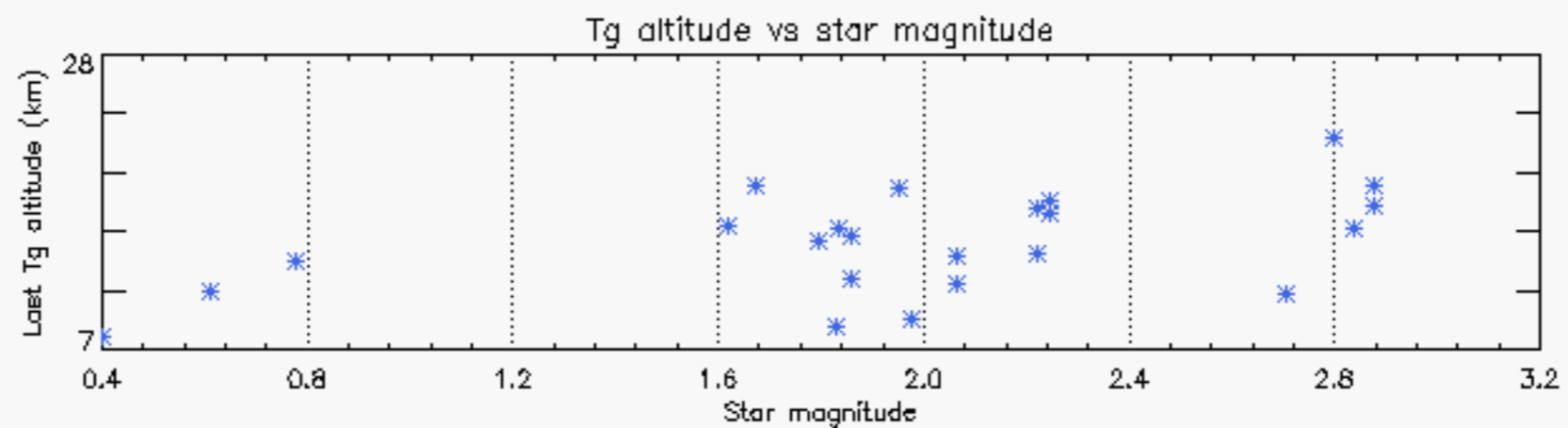
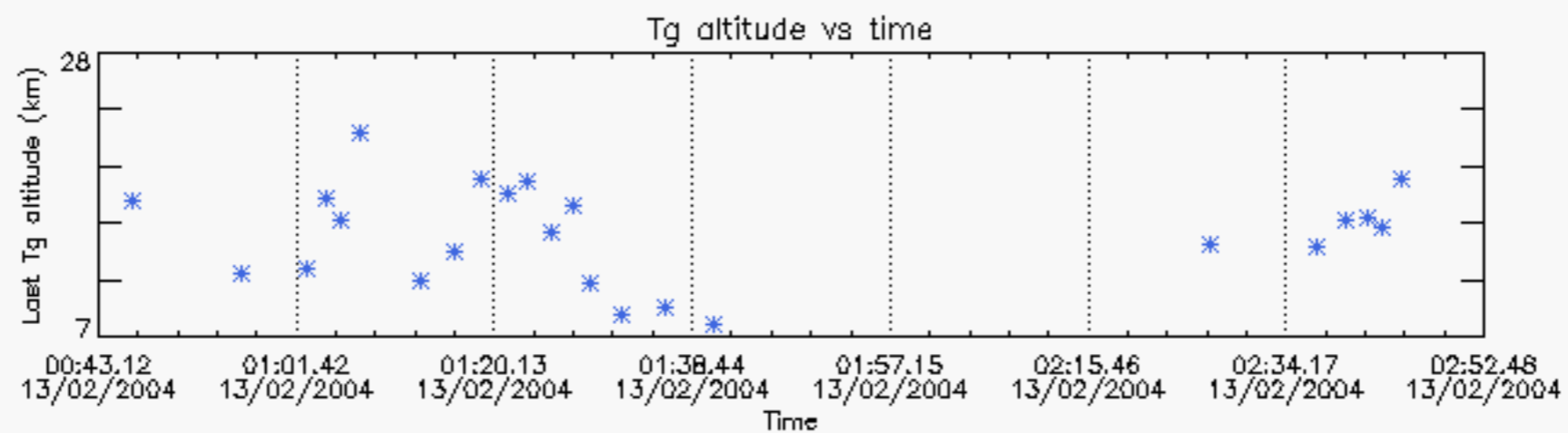




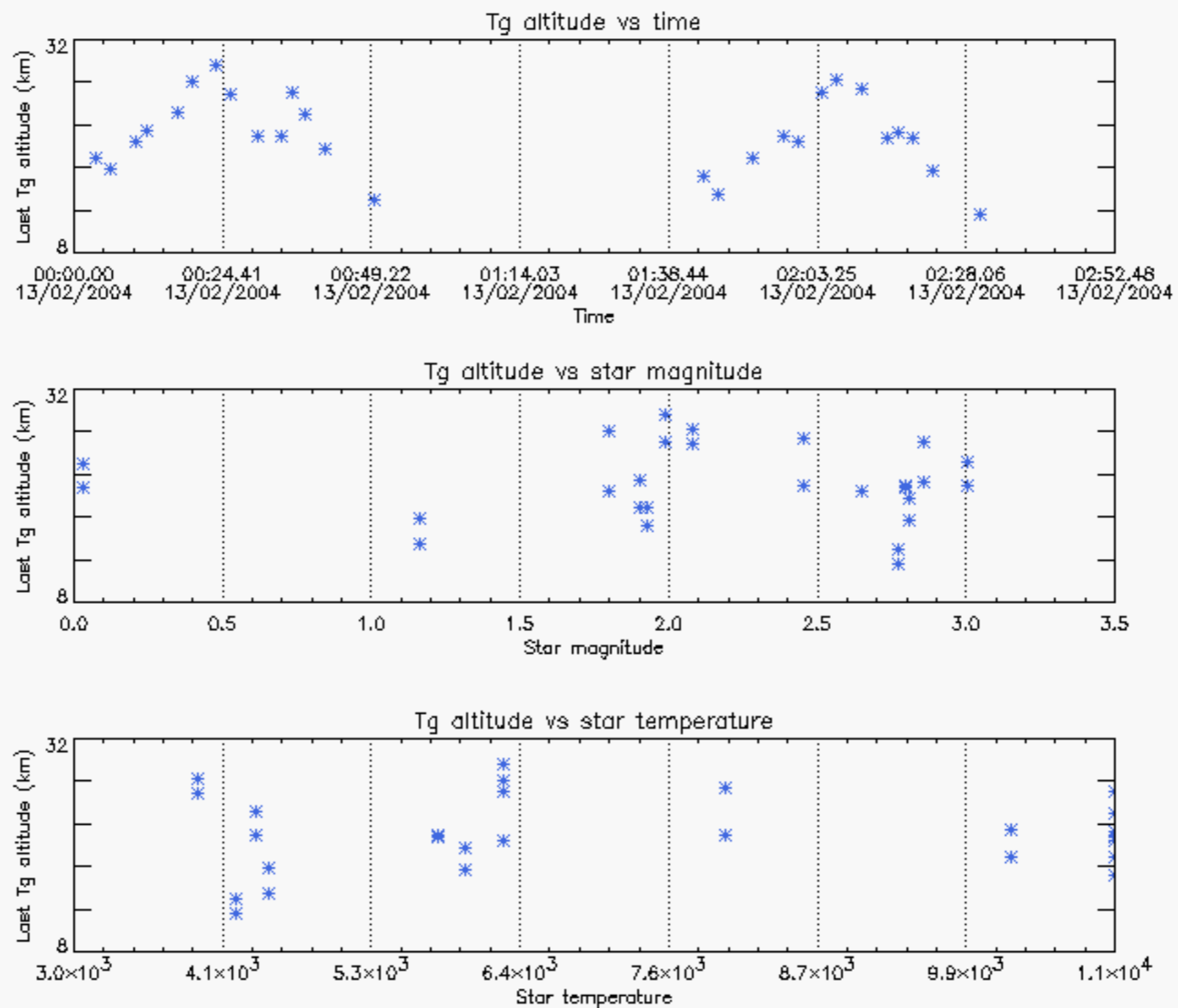




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20040201\_061239\_000061992023\_00478\_10051\_0894.N1

1; -4392.0; 01-FEB-2004 06:12:39; Dark ; 48.5; 1; 9Alp CMa ; -1.44; 11000;occ; 97; 0;10051  
 2; -4292.9; 01-FEB-2004 06:14:18; Dark ; 69.5; 48; 30Alp Hya ; 1.98; 4100;occ; 139; 0;10051  
 3; -4044.3; 01-FEB-2004 06:18:27; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;10051  
 4; -3950.7; 01-FEB-2004 06:20:00; Bright; 50.5; 14; 58Alp Ori ; 0.87; 3000;occ; 101; 0;10051  
 5; -3838.1; 01-FEB-2004 06:21:53; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;10051  
 6; -3728.1; 01-FEB-2004 06:23:43; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;10051  
 7; -3642.3; 01-FEB-2004 06:25:09; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;10051  
 8; -3470.2; 01-FEB-2004 06:28:01; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;10051  
 9; -3344.7; 01-FEB-2004 06:30:06; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;10051  
 10; -2779.1; 01-FEB-2004 06:39:32; Bright; 50.5; 82; 48Bet UMa ; 2.37; 10600;occ; 101; 0;10051  
 11; -2609.3; 01-FEB-2004 06:42:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;10051  
 12; -2423.0; 01-FEB-2004 06:45:28; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;10051  
 13; -2302.7; 01-FEB-2004 06:47:28; Bright; 63.5; 55; 79Zet UMa ; 2.06; 10200;occ; 127; 0;10051  
 14; -2140.4; 01-FEB-2004 06:50:11; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;10051  
 15; -1950.4; 01-FEB-2004 06:53:20; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;10051  
 16; -1732.9; 01-FEB-2004 06:56:58; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;10051  
 17; -1550.9; 01-FEB-2004 07:00:00; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;10051  
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33; 1082.8; 02-FEB-2004 17:15:52; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;10072
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5;	-3722.2;	03-FEB-2004	12:02:58;	Bright;		41.0;	151;	13Mu Gem	;	2.89;	3000;occ;	82;	0;	10083
6;	-3583.6;	03-FEB-2004	12:05:17;	Bright;		39.5;	24;	66Alp Gem	;	1.58;	10200;occ;	79;	0;	10083
7;	-3462.6;	03-FEB-2004	12:07:18;	Bright;		37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	10083
8;	-3338.8;	03-FEB-2004	12:09:22;	Bright;		37.5;	42;	34Bet Aur	;	1.90;	10200;occ;	75;	0;	10083
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11;	-2431.2;	03-FEB-2004	12:24:29;	Bright;		37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	10083
12;	-2327.9;	03-FEB-2004	12:26:12;	Bright;		54.5;	55;	79Zet UMa	;	2.06;	10200;occ;	109;	0;	10083
13;	-2147.4;	03-FEB-2004	12:29:13;	Bright;		41.0;	119;	14Eta Dra	;	2.73;	4700;occ;	82;	0;	10083
14;	-1951.5;	03-FEB-2004	12:32:29;	Bright;		37.5;	130;	23Bet Dra	;	2.80;	5800;occ;	75;	0;	10083
15;	-1729.8;	03-FEB-2004	12:36:11;	Bright;		39.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	78;	0;	10083
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17;	-1280.4;	03-FEB-2004	12:43:40;	Dark	;	127.0;	83;		;	2.38;	11000;occ;	254;	0;	10083
18;	-867.6;	03-FEB-2004	12:50:33;	Dark	;	72.5;	102;	24Alp Ser	;	2.60;	4250;occ;	145;	0;	10083
19;	-708.9;	03-FEB-2004	12:53:11;	Dark	;	45.0;	86;	35Eta Oph	;	2.43;	10200;occ;	90;	0;	10083
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22;	-323.6;	03-FEB-2004	12:59:37;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;occ;	83;	0;	10083
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24;	-93.8;	03-FEB-2004	13:03:27;	Dark	;	44.5;	131;	Gam Lup	;	2.80;	26000;occ;	89;	0;	10083
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27;	276.9;	03-FEB-2004	13:09:37;	Dark	;	58.5;	0;		;	0.00;	0;occ;	117;	0;	10084
28;	485.2;	03-FEB-2004	13:13:05;	Dark	;	40.5;	12;	Alp1Cru	;	0.77;	30000;occ;	81;	0;	10084
29;	687.5;	03-FEB-2004	13:16:28;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	10084
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4;	-3832.7;	03-FEB-2004	13:41:44;	Bright;		38.5;	44;	24Gam Gem	;	1.93;	11000;occ;	77;	0;	10084
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7;	-3462.2;	03-FEB-2004	13:47:54;	Bright;		37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	10084
8;	-3338.7;	03-FEB-2004	13:49:58;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	10084
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7;	-3710.8;	06-FEB-2004	15:30:06;	Bright;		41.0;	151;	13Mu Gem	;	2.89;	3000;occ;	82;	0;	10128
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31; 979.1; 16-FEB-2004 14:53:18; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;10271
32; 1122.0; 16-FEB-2004 14:55:41; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;10271
33; 1246.5; 16-FEB-2004 14:57:45; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;10271
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 9;-2820.4; 16-FEB-2004 15:30:34; Bright; 51.5; 87; 64Gam UMa ; 2.43; 11000;occ; 103; 0;10271
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13	-2187.1	16-FEB-2004	15:41:08	Bright	37.0	89	5Alp Cep	2.45	8000	occ	74	0	10271
14	-1964.7	16-FEB-2004	15:44:50	Bright	44.0	130	23Bet Dra	2.80	5800	occ	88	0	10271
15	-1843.4	16-FEB-2004	15:46:51	Bright	35.5	144	18Del Cyg	2.86	11000	occ	71	0	10271
16	-1708.5	16-FEB-2004	15:49:06	Bright	37.5	5	3Alp Lyr	0.03	11000	occ	75	0	10271
17	-1517.9	16-FEB-2004	15:52:17	Bright	57.0	133	40Zet Her	2.81	6000	occ	114	0	10271
18	-1257.4	16-FEB-2004	15:56:37	Dark	119.0	67	5Alp CrB	2.22	11000	occ	238	0	10271
19	-1021.9	16-FEB-2004	16:00:33	Dark	55.0	126	60Bet Oph	2.77	4250	occ	110	0	10271
20	-716.8	16-FEB-2004	16:05:38	Dark	41.0	155	41Pi Sgr	2.90	6600	occ	82	0	10271
21	-450.2	16-FEB-2004	16:10:05	Dark	44.0	38	20Eps Sgr	1.84	11000	occ	88	0	10271
22	-319.6	16-FEB-2004	16:12:15	Dark	43.5	25	35Lam Sco	1.62	28000	occ	87	0	10271
23	-243.6	16-FEB-2004	16:13:31	Dark	40.5	40	The Sco	1.86	7100	occ	81	0	10271
24	-138.5	16-FEB-2004	16:15:16	Dark	40.0	147	Alp Ara	2.88	26000	occ	80	0	10271
25	-52.3	16-FEB-2004	16:16:43	Dark	39.5	141	Bet Ara	2.84	4600	occ	79	0	10271
26	108.3	16-FEB-2004	16:19:23	Dark	58.5	0		0.00	0	occ	117	0	10272
27	319.2	16-FEB-2004	16:22:54	Dark	44.0	4	Alp1Cen	-0.01	5800	occ	88	0	10272
28	398.6	16-FEB-2004	16:24:13	Dark	42.0	10	Bet Cen	0.61	28000	occ	84	0	10272
29	480.9	16-FEB-2004	16:25:36	Dark	46.5	77	Eps Cen	2.30	28000	occ	93	0	10272
30	580.8	16-FEB-2004	16:27:16	Dark	46.0	12	Alp1Cru	0.77	30000	occ	92	0	10272
31	724.7	16-FEB-2004	16:29:40	Dark	44.0	29	Bet Car	1.67	10200	occ	88	0	10272
32	882.5	16-FEB-2004	16:32:17	Dark	42.5	71	Iot Car	2.25	7700	occ	85	0	10272
33	979.2	16-FEB-2004	16:33:54	Dark	39.0	46	Del Vel	1.95	10600	occ	78	0	10272
34	1122.2	16-FEB-2004	16:36:17	Dark	41.5	34	Gam2Vel	1.79	23000	occ	83	0	10272
35	1246.9	16-FEB-2004	16:38:22	Dark	24.0	70	Zet Pup	2.25	39000	occ	48	0	10272
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2	-4296.9	16-FEB-2004	16:46:34	Dark	50.0	48	30Alp Hya	1.98	4100	occ	100	0	10272
3	-4024.0	16-FEB-2004	16:51:07	Bright	44.0	8	10Alp CMi	0.40	6500	occ	88	0	10272
4	-3856.2	16-FEB-2004	16:53:55	Bright	54.5	22	32Alp Leo	1.36	15200	occ	109	0	10272
5	-3648.8	16-FEB-2004	16:57:22	Bright	40.5	17	78Bet Gem	1.16	4500	occ	81	0	10272
6	-3277.0	16-FEB-2004	17:03:34	Bright	39.0	42	34Bet Aur	1.90	10200	occ	78	0	10272
7	-3066.1	16-FEB-2004	17:07:05	Bright	55.0	174	52Psi UMa	3.00	4400	occ	110	0	10272
8	-2948.8	16-FEB-2004	17:09:02	Bright	46.0	82	48Bet UMa	2.37	10600	occ	92	0	10272
9	-2821.8	16-FEB-2004	17:11:09	Bright	52.0	87	64Gam UMa	2.43	11000	occ	104	0	10272
10	-2606.5	16-FEB-2004	17:14:44	Bright	38.0	49	1Alp UMi	1.99	6300	occ	76	0	10272
11	-2484.7	16-FEB-2004	17:16:46	Bright	43.5	60	7Bet UMi	2.08	3950	occ	87	0	10272
12	-2337.4	16-FEB-2004	17:19:13	Bright	68.0	39	85Eta UMa	1.85	24000	occ	136	0	10272
13	-2186.9	16-FEB-2004	17:21:44	Bright	37.5	89	5Alp Cep	2.45	8000	occ	75	0	10272
14	-1965.3	16-FEB-2004	17:25:26	Bright	43.5	130	23Bet Dra	2.80	5800	occ	87	0	10272
15	-1843.4	16-FEB-2004	17:27:27	Bright	34.0	144	18Del Cyg	2.86	11000	occ	68	0	10272
16	-1708.5	16-FEB-2004	17:29:42	Bright	40.0	5	3Alp Lyr	0.03	11000	occ	80	0	10272
17	-1517.5	16-FEB-2004	17:32:53	Bright	56.0	133	40Zet Her	2.81	6000	occ	112	0	10272
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19	-1021.4	16-FEB-2004	17:41:09	Dark	53.0	126	60Bet Oph	2.77	4250	occ	106	0	10272
20	-716.7	16-FEB-2004	17:46:14	Dark	41.0	155	41Pi Sgr	2.90	6600	occ	82	0	10272
21	-449.9	16-FEB-2004	17:50:41	Dark	45.0	38	20Eps Sgr	1.84	11000	occ	90	0	10272
22	-318.7	16-FEB-2004	17:52:52	Dark	44.5	25	35Lam Sco	1.62	28000	occ	89	0	10272
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25	-51.9	16-FEB-2004	17:57:19	Dark	43.0	141	Bet Ara	2.84	4600	occ	86	0	10272
26	108.4	16-FEB-2004	17:59:59	Dark	58.5	0		0.00	0	occ	117	0	10273
27	319.7	16-FEB-2004	18:03:31	Dark	47.0	4	Alp1Cen	-0.01	5800	occ	94	0	10273
28	398.9	16-FEB-2004	18:04:50	Dark	46.5	10	Bet Cen	0.61	28000	occ	93	0	10273
29	481.6	16-FEB-2004	18:06:12	Dark	46.0	77	Eps Cen	2.30	28000	occ	92	0	10273
30	581.2	16-FEB-2004	18:07:52	Dark	54.0	12	Alp1Cru	0.77	30000	occ	108	0	10273
31	724.6	16-FEB-2004	18:10:16	Dark	40.5	29	Bet Car	1.67	10200	occ	81	0	10273
32	882.7	16-FEB-2004	18:12:54	Dark	42.0	71	Iot Car	2.25	7700	occ	84	0	10273
33	979.4	16-FEB-2004	18:14:30	Dark	42.5	46	Del Vel	1.95	10600	occ	85	0	10273
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2	-4532.5	16-FEB-2004	18:23:14	Dark	42.5	132	15Rho Pup	2.80	6900	occ	85	0	10273
3	-4297.1	16-FEB-2004	18:27:10	Dark	52.5	48	30Alp Hya	1.98	4100	occ	105	0	10273
4	-4024.3	16-FEB-2004	18:31:43	Bright	45.0	8	10Alp CMi	0.40	6500	occ	90	0	10273
5	-3856.9	16-FEB-2004	18:34:30	Bright	51.5	22	32Alp Leo	1.36	15200	occ	103	0	10273
6	-3648.7	16-FEB-2004	18:37:58	Bright	40.0	17	78Bet Gem	1.16	4500	occ	80	0	10273
7	-3277.0	16-FEB-2004	18:44:10	Bright	39.0	42	34Bet Aur	1.90	10200	occ	78	0	10273
8	-3066.6	16-FEB-2004	18:47:40	Bright	54.0	174	52Psi UMa	3.00	4400	occ	108	0	10273
9	-2949.2	16-FEB-2004	18:49:38	Bright	45.5	82	48Bet UMa	2.37	10600	occ	91	0	10273

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16;-1662.8; 29-FEB-2004 07:18:16; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;10452
17;-1483.1; 29-FEB-2004 07:21:15; Bright; 81.0; 133; 40Zet Her ; 2.81; 6000;occ; 162; 0;10452
18;-1242.0; 29-FEB-2004 07:25:16; Bright; 39.0; 168; 17Zet Aql ; 2.99; 11000;occ; 78; 0;10452
19;-1045.9; 29-FEB-2004 07:28:32; Dark ; 67.0; 59; 55Alp Oph ; 2.08; 8900;occ; 134; 0;10452
20; -893.3; 29-FEB-2004 07:31:05; Dark ; 67.5; 126; 60Bet Oph ; 2.77; 4250;occ; 135; 0;10452
21; -654.4; 29-FEB-2004 07:35:04; Dark ; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;10452
22; -545.5; 29-FEB-2004 07:36:53; Dark ; 41.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 82; 0;10452
23; -359.9; 29-FEB-2004 07:39:58; Dark ; 51.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 103; 0;10452
24; -190.4; 29-FEB-2004 07:42:48; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;10452
25; 120.3; 29-FEB-2004 07:47:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10453
26; 351.9; 29-FEB-2004 07:51:50; Dark ; 38.0; 145; Gam TrA ; 2.87; 10600;occ; 76; 0;10453
27; 429.0; 29-FEB-2004 07:53:07; Dark ; 48.0; 4; Alp1Cen ;-0.01; 5800;occ; 96; 0;10453
28; 507.9; 29-FEB-2004 07:54:26; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;10453
29; 663.9; 29-FEB-2004 07:57:02; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;10453
30; 748.1; 29-FEB-2004 07:58:26; Dark ; 44.0; 29; Bet Car ; 1.67; 10200;occ; 88; 0;10453
31; 916.5; 29-FEB-2004 08:01:15; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;10453
32; 1007.4; 29-FEB-2004 08:02:46; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;10453
33; 1181.4; 29-FEB-2004 08:05:40; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;10453
34; 1330.2; 29-FEB-2004 08:08:08; Dark ; 72.0; 106; 9Bet Crv ; 2.65; 5600;occ; 144; 0;10453
35; 1515.0; 29-FEB-2004 08:11:13; Dark ; 68.0; 100; 4Gam Crv ; 2.58; 13100;occ; 136; 0;10453
36; 1751.7; 29-FEB-2004 08:15:10; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;10453

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