

GOMOS Daily Report 18-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	19FEB2004 06:56:45
Data source version	<Any version>
Start time of products	18-FEB-2004 (18FEB2004 00:00:00)
Stop time of products	19-FEB-2004 (19FEB2004 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

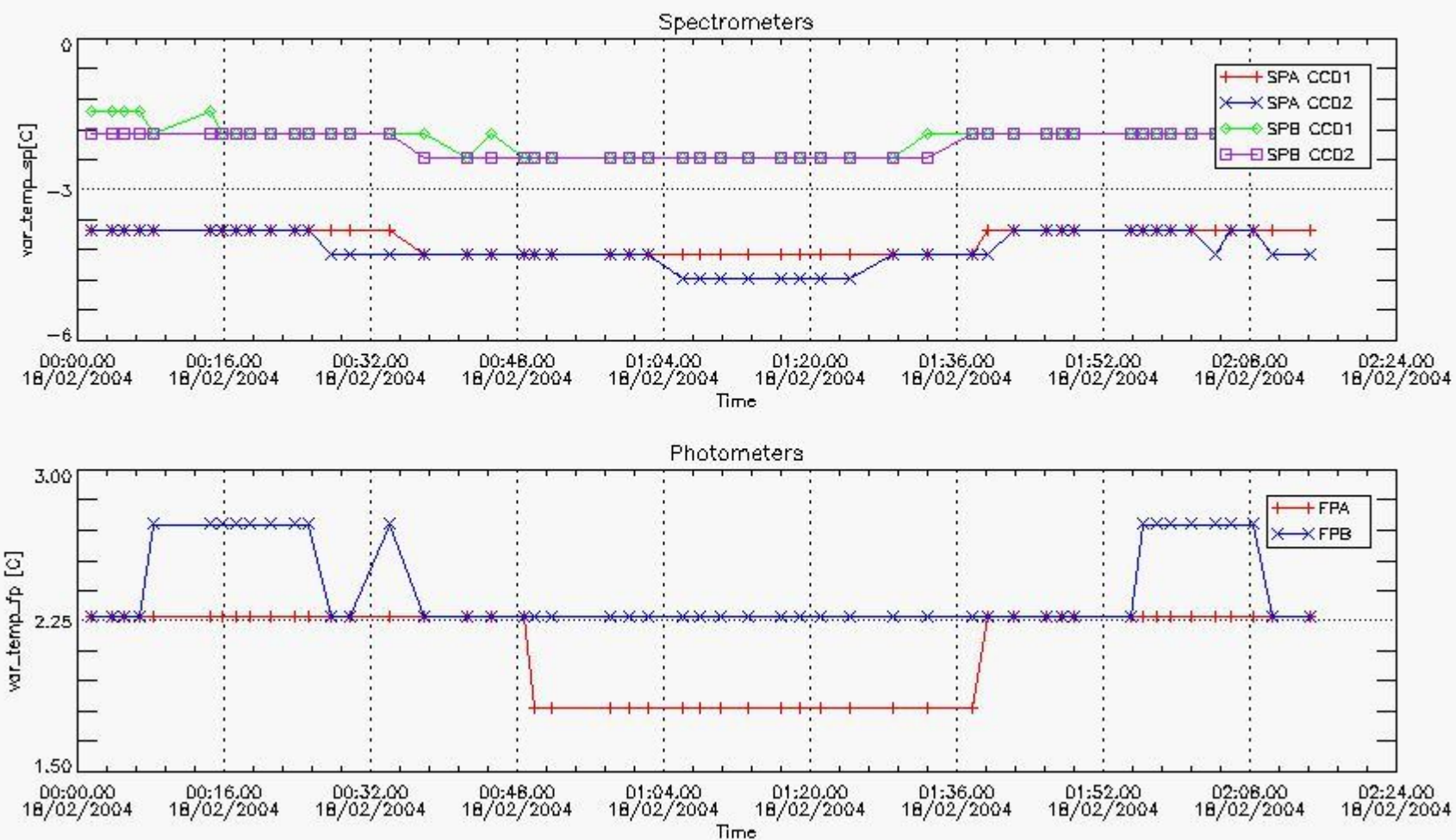
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040218_000135_000000452024_00216_10290_0023.N1	18-FEB-2004 00:01:35	Dark	44.500	38	20Eps Sgr	1.8360	11000.	89	10290	No
GOM_TRA_1PNPDE20040218_000349_000000472024_00216_10290_0024.N1	18-FEB-2004 00:03:49	Dark	46.500	25	35Lam Sco	1.6200	28000.	93	10290	No
GOM_TRA_1PNPDE20040218_000508_000000522024_00216_10290_0025.N1	18-FEB-2004 00:05:08	Dark	51.500	75	26Eps Sco	2.2910	4250.0	103	10290	No
GOM_TRA_1PNPDE20040218_000647_000000402024_00216_10290_0026.N1	18-FEB-2004 00:06:47	Dark	40.000	147	Alp Ara	2.8770	26000.	80	10290	No
GOM_TRA_1PNPDE20040218_000812_000000482024_00216_10290_0027.N1	18-FEB-2004 00:08:12	Dark	47.500	141	Bet Ara	2.8400	4600.0	95	10290	No
GOM_TRA_1PNPDE20040218_001427_000000482024_00217_10291_0028.N1	18-FEB-2004 00:14:27	Dark	48.000	4	Alp1Cen	-0.010000	5800.0	96	10291	No
GOM_TRA_1PNPDE20040218_001547_000000472024_00217_10291_0029.N1	18-FEB-2004 00:15:47	Dark	46.500	10	Bet Cen	0.61000	28000.	93	10291	No
GOM_TRA_1PNPDE20040218_001713_000000462024_00217_10291_0030.N1	18-FEB-2004 00:17:13	Dark	45.500	77	Eps Cen	2.3030	28000.	91	10291	No
GOM_TRA_1PNPDE20040218_001845_000000522024_00217_10291_0031.N1	18-FEB-2004 00:18:45	Dark	51.500	12	Alp1Cru	0.77500	30000.	103	10291	No
GOM_TRA_1PNPDE20040218_002105_000000472024_00217_10291_0032.N1	18-FEB-2004 00:21:05	Dark	47.000	29	Bet Car	1.6720	10200.	94	10291	No
GOM_TRA_1PNPDE20040218_002343_000000432024_00217_10291_0033.N1	18-FEB-2004 00:23:43	Dark	43.000	71	lot Car	2.2460	7700.0	86	10291	No
GOM_TRA_1PNPDE20040218_002518_000000422024_00217_10291_0034.N1	18-FEB-2004 00:25:18	Dark	42.000	46	Del Vel	1.9540	10600.	84	10291	No
GOM_TRA_1PNPDE20040218_002742_000000452024_00217_10291_0035.N1	18-FEB-2004 00:27:42	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	10291	No
GOM_TRA_1PNPDE20040218_002948_000000372024_00217_10291_0036.N1	18-FEB-2004 00:29:48	Dark	37.000	70	Zet Pup	2.2460	39000.	74	10291	No
GOM_TRA_1PNPDE20040218_003404_000000432024_00217_10291_0000.N1	18-FEB-2004 00:34:04	Dark	43.000	132	15Rho Pup	2.8030	6900.0	86	10291	No
GOM_TRA_1PNPDE20040218_003754_000000532024_00217_10291_0001.N1	18-FEB-2004 00:37:54	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	10291	No
GOM_TRA_1PNPDE20040218_004230_000000482024_00217_10291_0002.N1	18-FEB-2004 00:42:30	Bright	47.500	8	10Alp CMi	0.40000	6500.0	95	10291	No
GOM_TRA_1PNPDE20040218_004509_000000532024_00217_10291_0003.N1	18-FEB-2004 00:45:09	Bright	52.500	22	32Alp Leo	1.3600	15200.	105	10291	No
GOM_TRA_1PNPDE20040218_004846_000000412024_00217_10291_0004.N1	18-FEB-2004 00:48:46	Bright	41.000	17	78Bet Gem	1.1610	4500.0	82	10291	No
GOM_TRA_1PNPDE20040218_004953_000000402024_00217_10291_0005.N1	18-FEB-2004 00:49:53	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	10291	No
GOM_TRA_1PNPDE20040218_005146_000000692024_00217_10291_0006.N1	18-FEB-2004 00:51:46	Bright	68.500	96	68Del Leo	2.5600	9300.0	137	10291	No
GOM_TRA_1PNPDE20040218_005810_000000522024_00217_10291_0007.N1	18-FEB-2004 00:58:10	Bright	51.500	174	52Psi UMa	3.0040	4400.0	103	10291	No
GOM_TRA_1PNPDE20040218_010012_000000462024_00217_10291_0008.N1	18-FEB-2004 01:00:12	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	10291	No
GOM_TRA_1PNPDE20040218_010214_000000512024_00217_10291_0009.N1	18-FEB-2004 01:02:14	Bright	50.500	87	64Gam UMa	2.4330	11000.	101	10291	No
GOM_TRA_1PNPDE20040218_010606_000000402024_00217_10291_0010.N1	18-FEB-2004 01:06:06	Bright	39.500	49	1Alp UMi	1.9900	6300.0	79	10291	No
GOM_TRA_1PNPDE20040218_010802_000000392024_00217_10291_0011.N1	18-FEB-2004 01:08:02	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	10291	No
GOM_TRA_1PNPDE20040218_011014_000000672024_00217_10291_0012.N1	18-FEB-2004 01:10:14	Bright	67.000	39	85Eta UMa	1.8540	24000.	134	10291	No
GOM_TRA_1PNPDE20040218_011308_000000412024_00217_10291_0013.N1	18-FEB-2004 01:13:08	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	10291	No
GOM_TRA_1PNPDE20040218_011645_000000442024_00217_10291_0014.N1	18-FEB-2004 01:16:45	Bright	43.500	130	23Bet Dra	2.7990	5800.0	87	10291	No
GOM_TRA_1PNPDE20040218_011850_000000522024_00217_10291_0015.N1	18-FEB-2004 01:18:50	Bright	52.000	144	18Del Cyg	2.8600	11000.	104	10291	No
GOM_TRA_1PNPDE20040218_012104_000000422024_00217_10291_0016.N1	18-FEB-2004 01:21:04	Bright	42.000	5	3Alp Lyr	0.033000	11000.	84	10291	No
GOM_TRA_1PNPDE20040218_012419_000000582024_00217_10291_0017.N1	18-FEB-2004 01:24:19	Bright	58.000	133	40Zet Her	2.8070	6000.0	116	10291	No
GOM_TRA_1PNPDE20040218_012857_000001282024_00217_10291_0018.N1	18-FEB-2004 01:28:57	Dark	127.50	67	5Alp CrB	2.2210	11000.	255	10291	No
GOM_TRA_1PNPDE20040218_013242_000000572024_00217_10291_0019.N1	18-FEB-2004 01:32:42	Dark	57.000	126	60Bet Oph	2.7700	4250.0	114	10291	No
GOM_TRA_1PNPDE20040218_013741_000000432024_00217_10291_0020.N1	18-FEB-2004 01:37:41	Dark	43.000	155	41Pi Sgr	2.9000	6600.0	86	10291	No
GOM_TRA_1PNPDE20040218_013921_000000432024_00217_10291_0021.N1	18-FEB-2004 01:39:21	Dark	42.500	57	34Sig Sgr	2.0660	26000.	85	10291	No
GOM_TRA_1PNPDE20040218_014210_000000452024_00217_10291_0022.N1	18-FEB-2004 01:42:10	Dark	45.000	38	20Eps Sgr	1.8360	11000.	90	10291	No
GOM_TRA_1PNPDE20040218_014545_000000522024_00217_10291_0023.N1	18-FEB-2004 01:45:45	Dark	52.000	75	26Eps Sco	2.2910	4250.0	104	10291	No
GOM_TRA_1PNPDE20040218_014723_000000422024_00217_10291_0024.N1	18-FEB-2004 01:47:23	Dark	41.500	147	Alp Ara	2.8770	26000.	83	10291	No
GOM_TRA_1PNPDE20040218_014848_000000452024_00217_10291_0025.N1	18-FEB-2004 01:48:48	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	10291	No
GOM_TRA_1PNPDE20040218_015503_000000472024_00218_10292_0026.N1	18-FEB-2004 01:55:03	Dark	47.000	4	Alp1Cen	-0.010000	5800.0	94	10292	No
GOM_TRA_1PNPDE20040218_015624_000000432024_00218_10292_0027.N1	18-FEB-2004 01:56:24	Dark	42.500	10	Bet Cen	0.61000	28000.	85	10292	No
GOM_TRA_1PNPDE20040218_015750_000000452024_00218_10292_0028.N1	18-FEB-2004 01:57:50	Dark	44.500	77	Eps Cen	2.3030	28000.	89	10292	No
GOM_TRA_1PNPDE20040218_015924_000000522024_00218_10292_0029.N1	18-FEB-2004 01:59:24	Dark	52.000	12	Alp1Cru	0.77500	30000.	104	10292	No
GOM_TRA_1PNPDE20040218_020141_000000452024_00218_10292_0030.N1	18-FEB-2004 02:01:41	Dark	45.000	29	Bet Car	1.6720	10200.	90	10292	No
GOM_TRA_1PNPDE20040218_020417_000000472024_00218_10292_0031.N1	18-FEB-2004 02:04:17	Dark	46.500	71	lot Car	2.2460	7700.0	93	10292	No
GOM_TRA_1PNPDE20040218_020556_000000422024_00218_10292_0032.N1	18-FEB-2004 02:05:56	Dark	42.000	46	Del Vel	1.9540	10600.	84	10292	No
GOM_TRA_1PNPDE20040218_020818_000000432024_00218_10292_0033.N1	18-FEB-2004 02:08:18	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	10292	No
GOM_TRA_1PNPDE20040218_021023_000000432024_00218_10292_0034.N1	18-FEB-2004 02:10:23	Dark	42.500	70	Zet Pup	2.2460	39000.	85	10292	No
GOM_TRA_1PNPDE20040218_021438_000000192024_00218_10292_0035.N1	18-FEB-2004 02:14:38	Dark	18.500	132	15Rho Pup	2.8030	6900.0	37	10292	No

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



4. Overview of dark signal processing per product

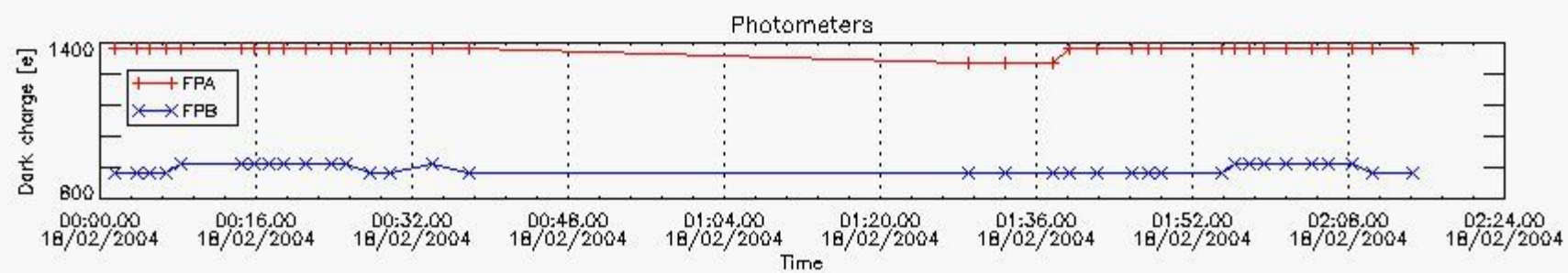
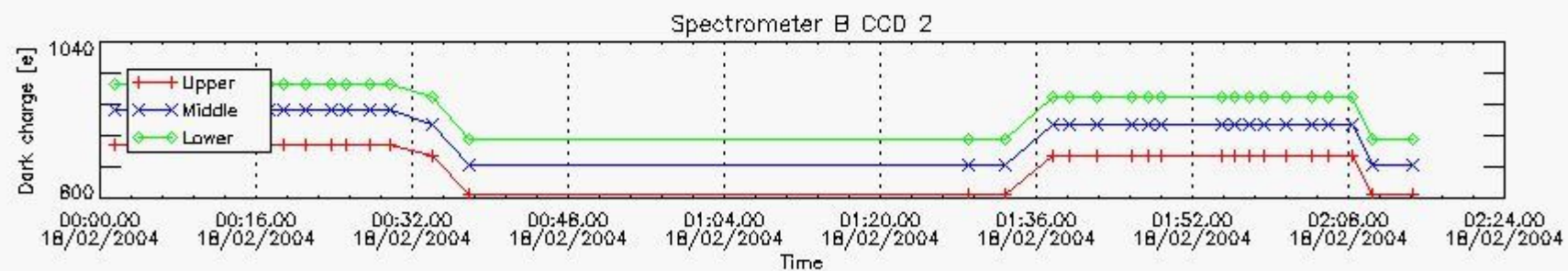
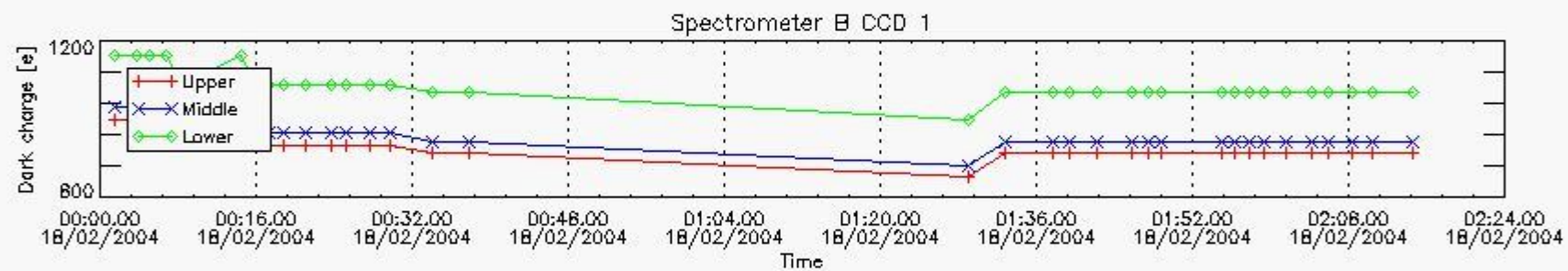
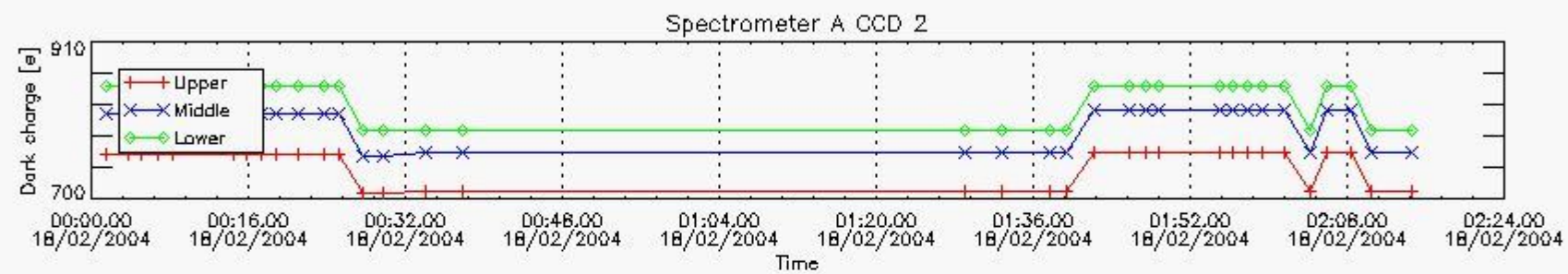
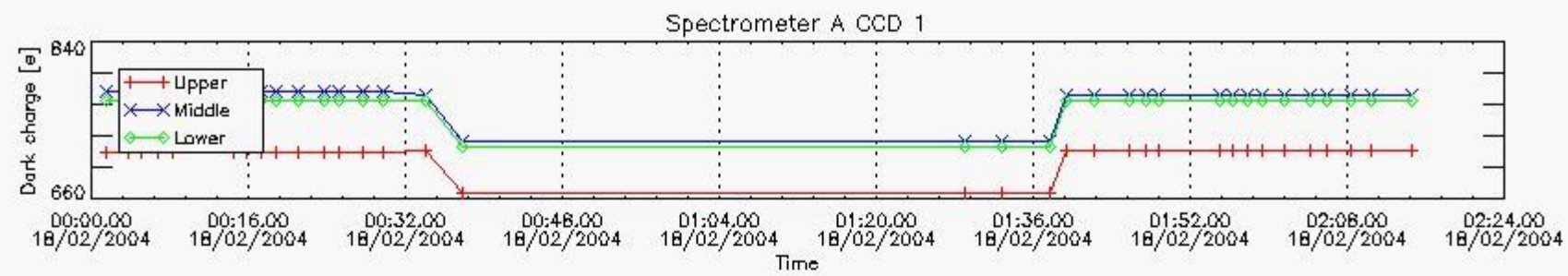
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





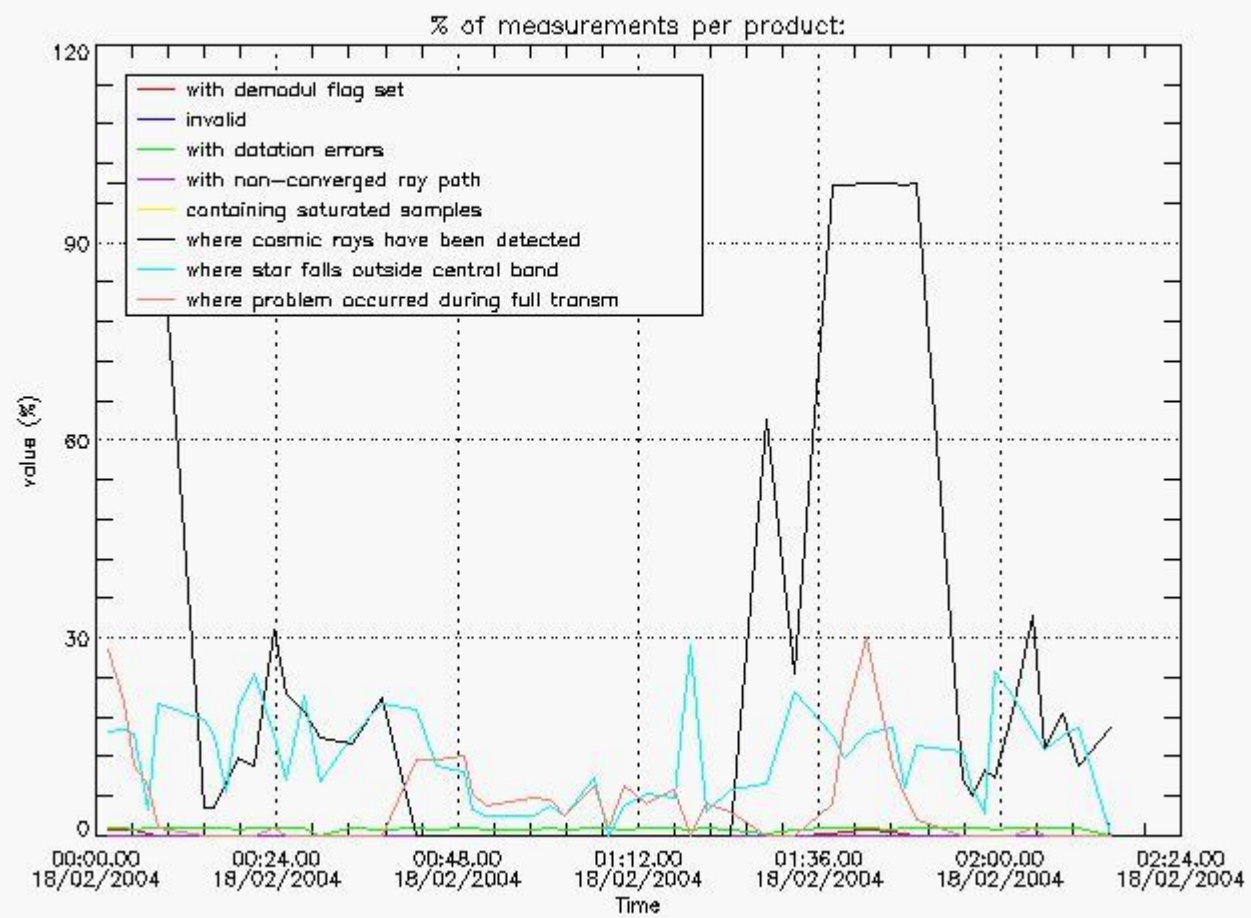
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
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



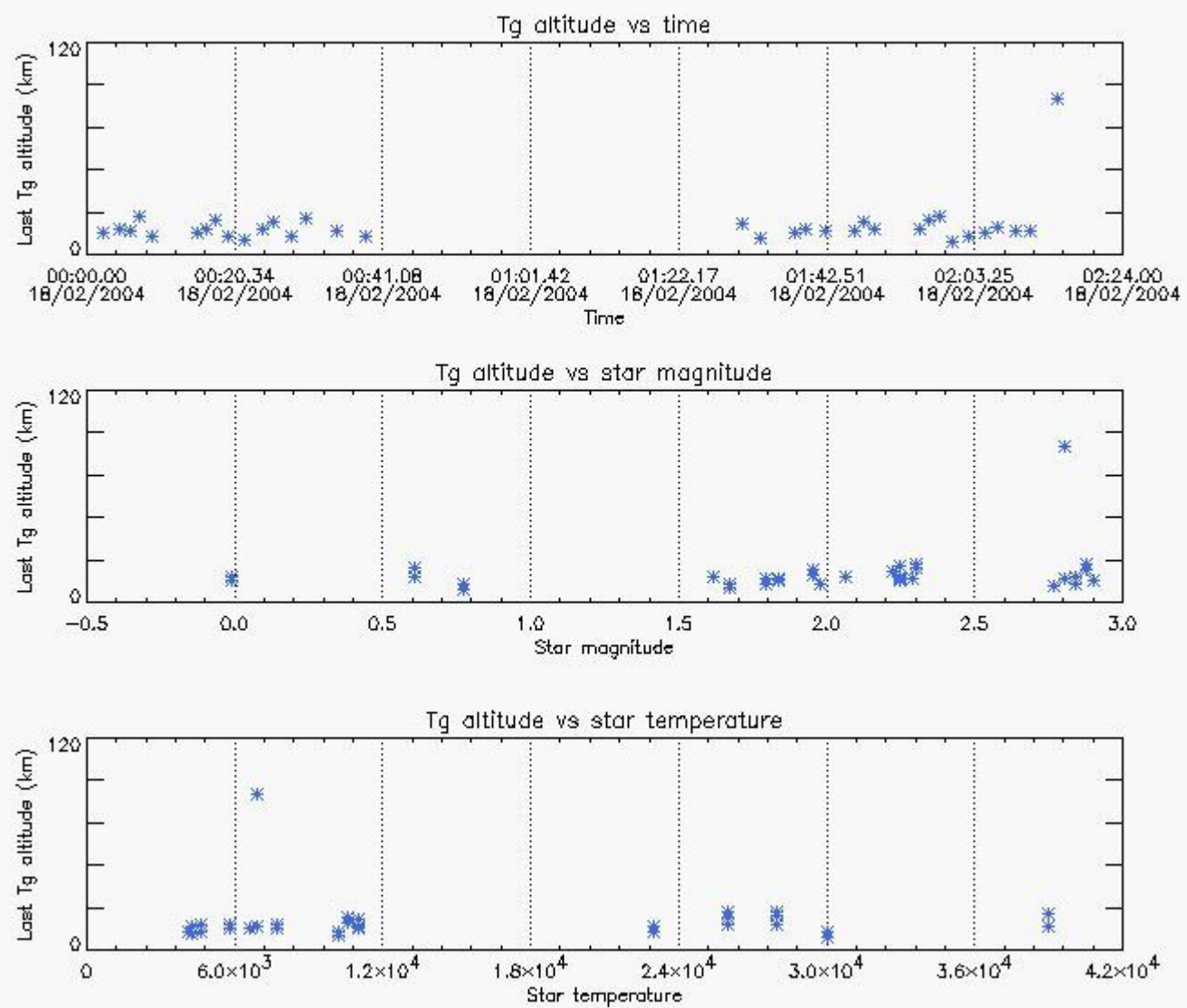
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	16.292	19.442
St. deviation:	13.139	5.0465
Maximum:	87.793	26.820
Minimum:	7.3095	6.5616
Number of data:	34.000	16.000

6.2 Plot for DARK limb products

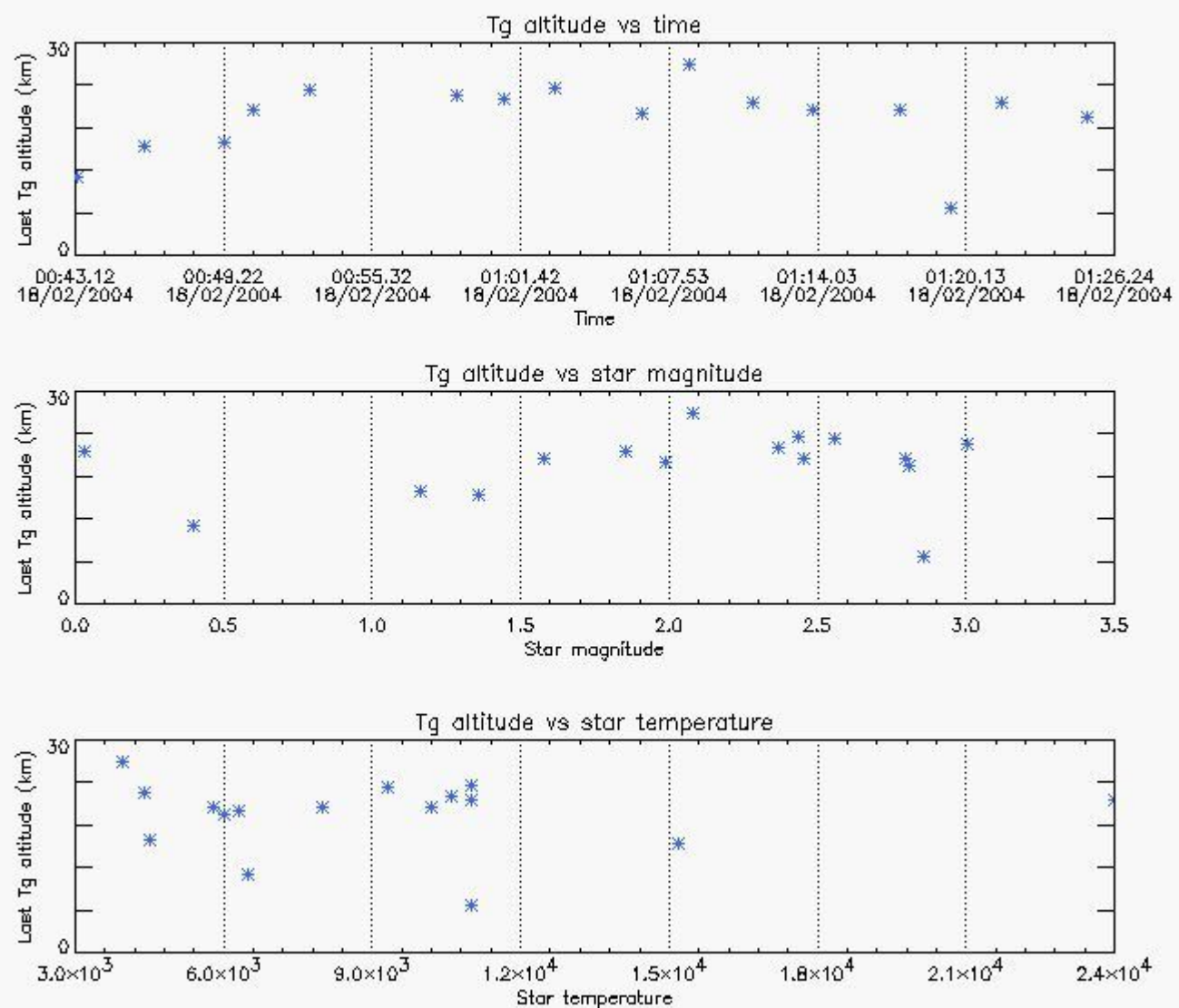
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



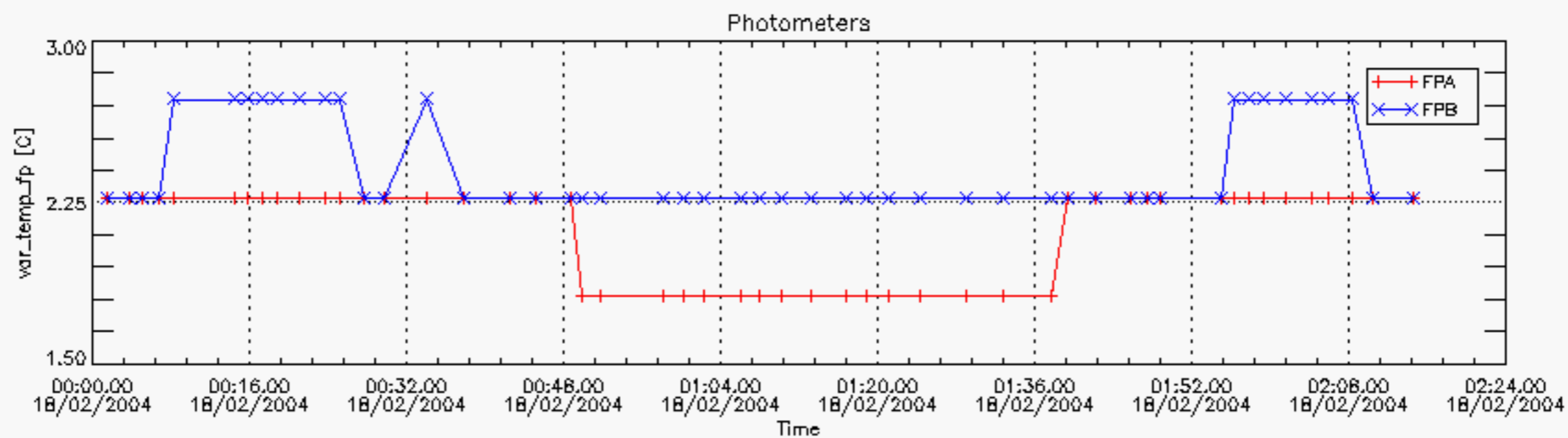
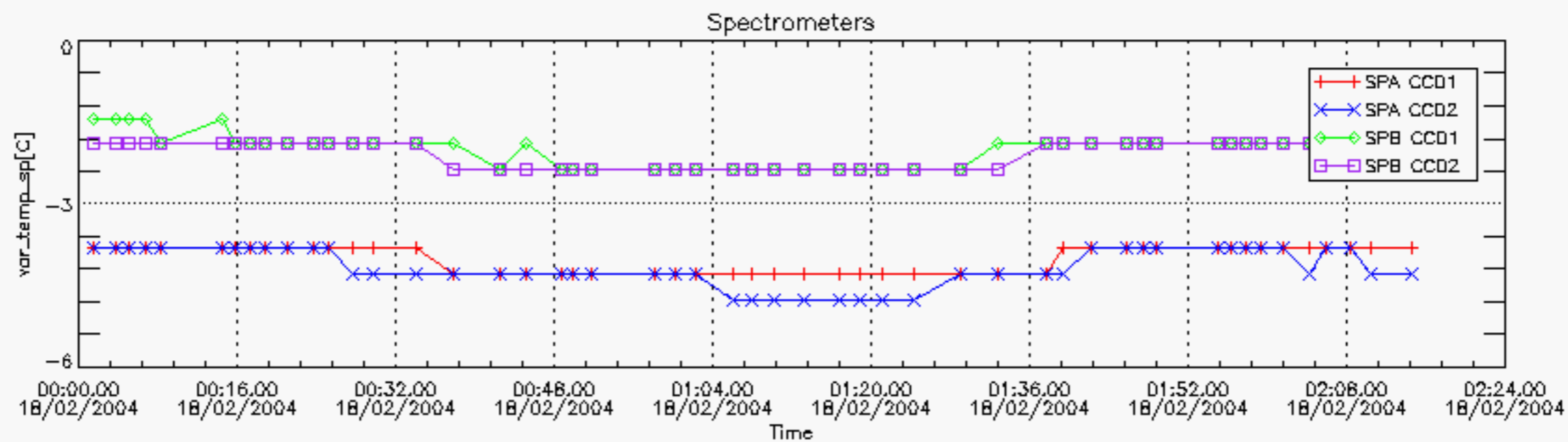
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

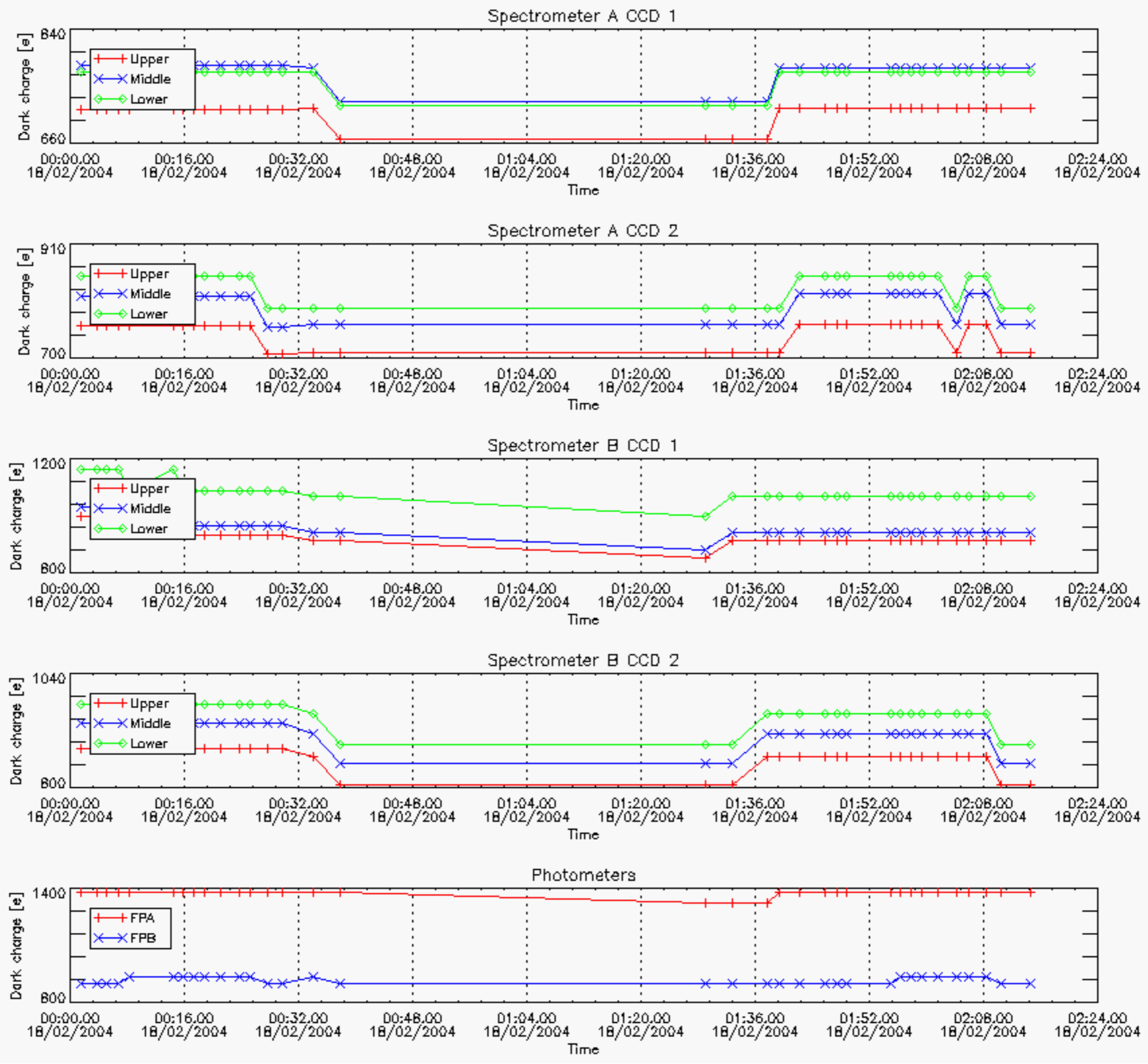
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

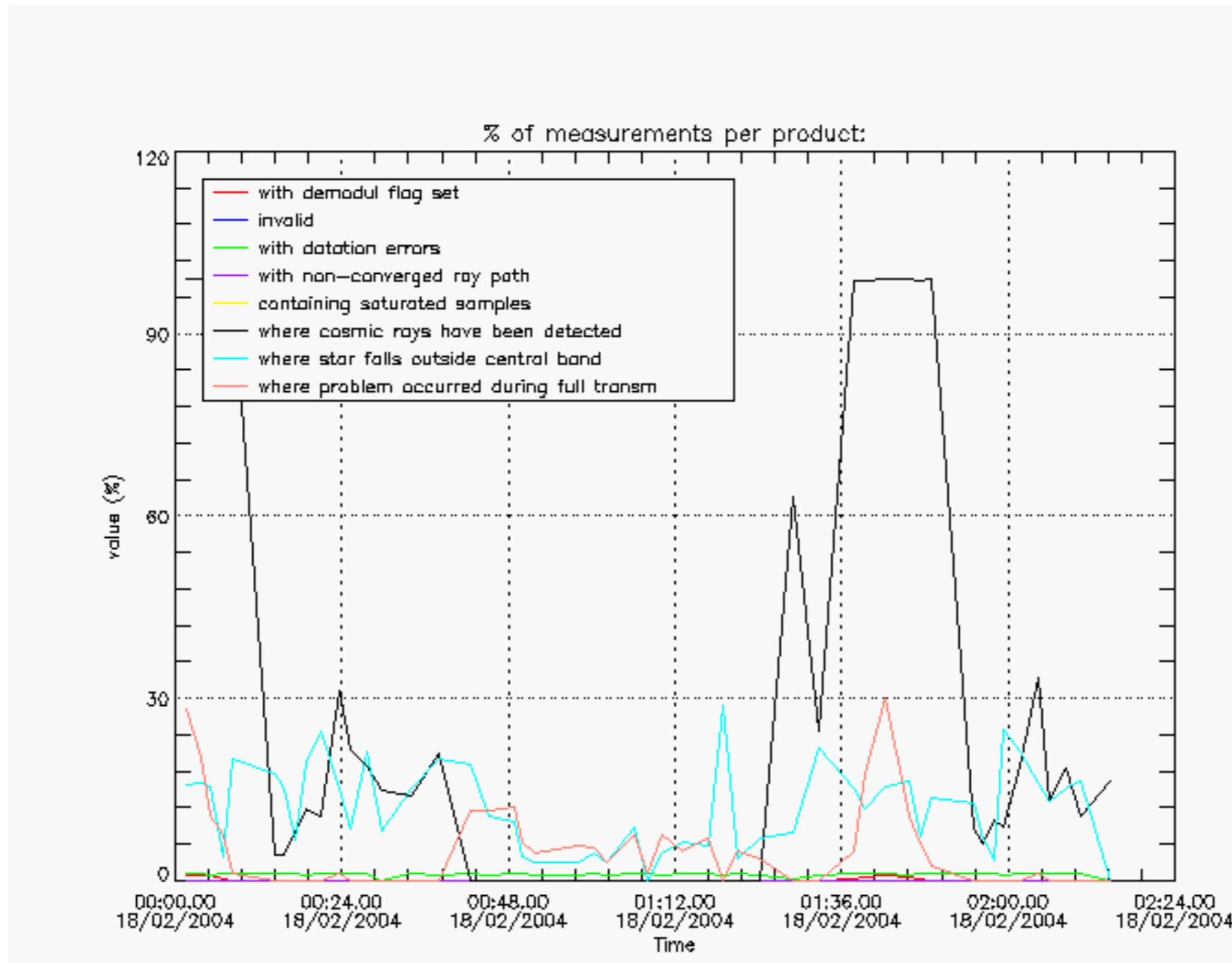
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.7	1446.9	1461.9	1448.0
St. deviation:	5.4620	7.8387	6.7153	8.7559
Maximum:	1631.0	1575.0	1508.0	1501.0
Minimum:	1436.0	1414.0	1436.0	1418.0
Number of data:	41150.	41150.	21050.	21050.



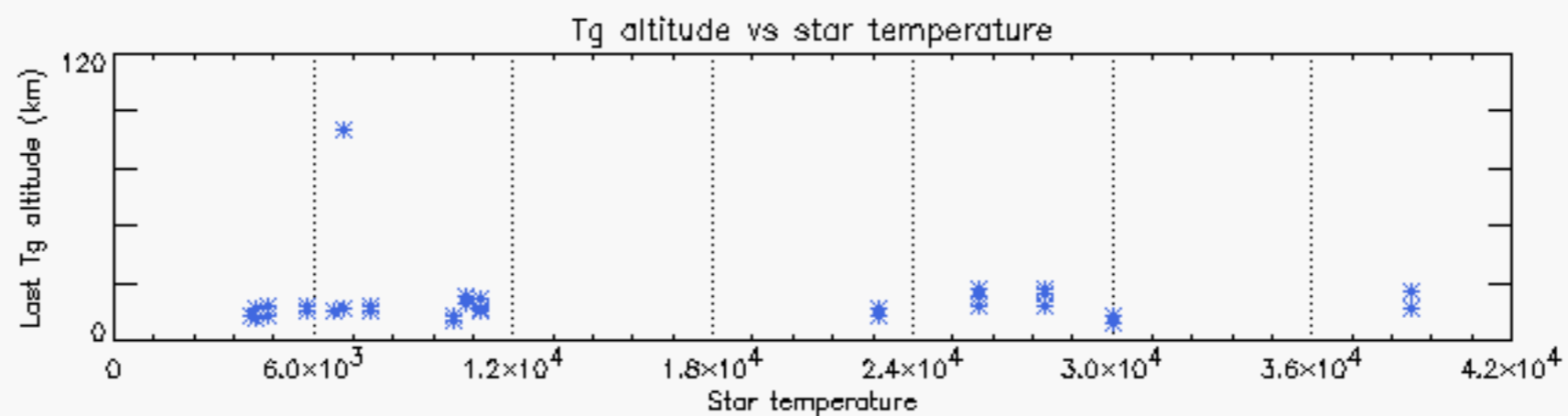
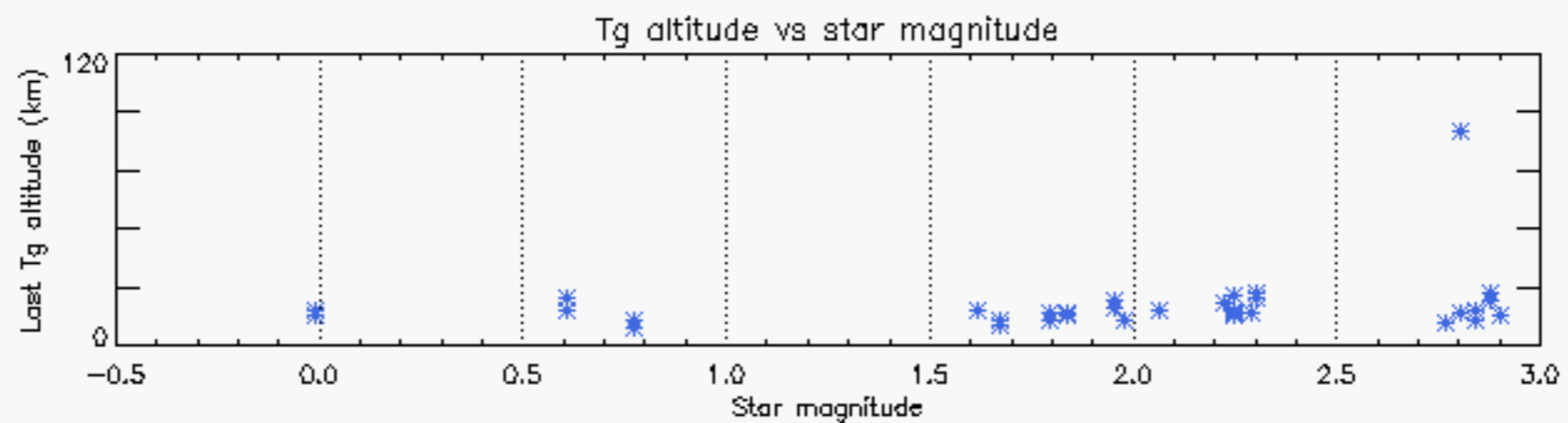
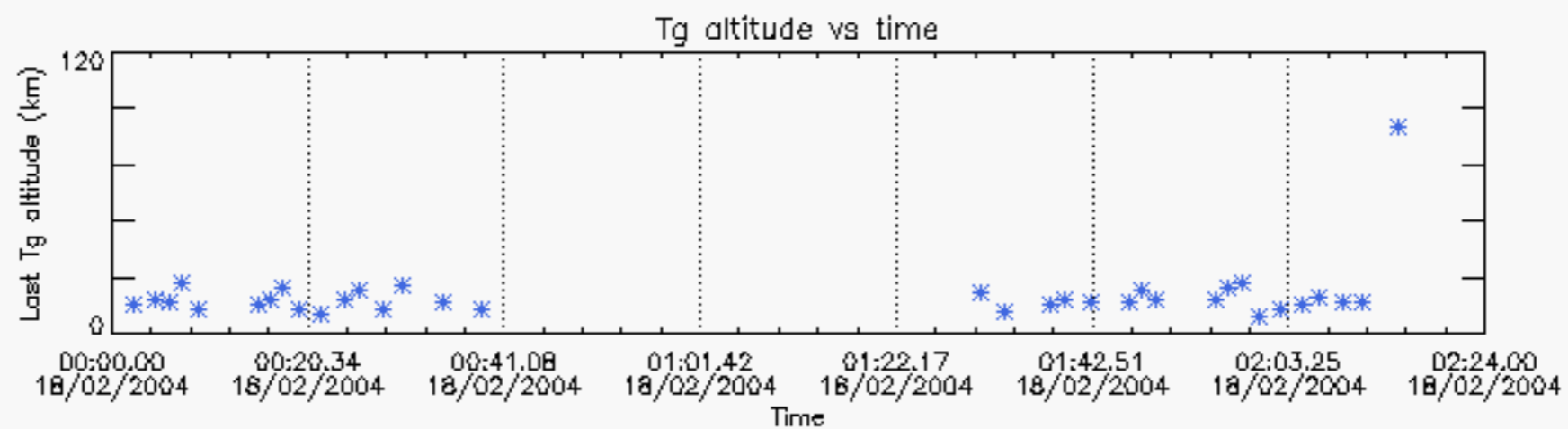




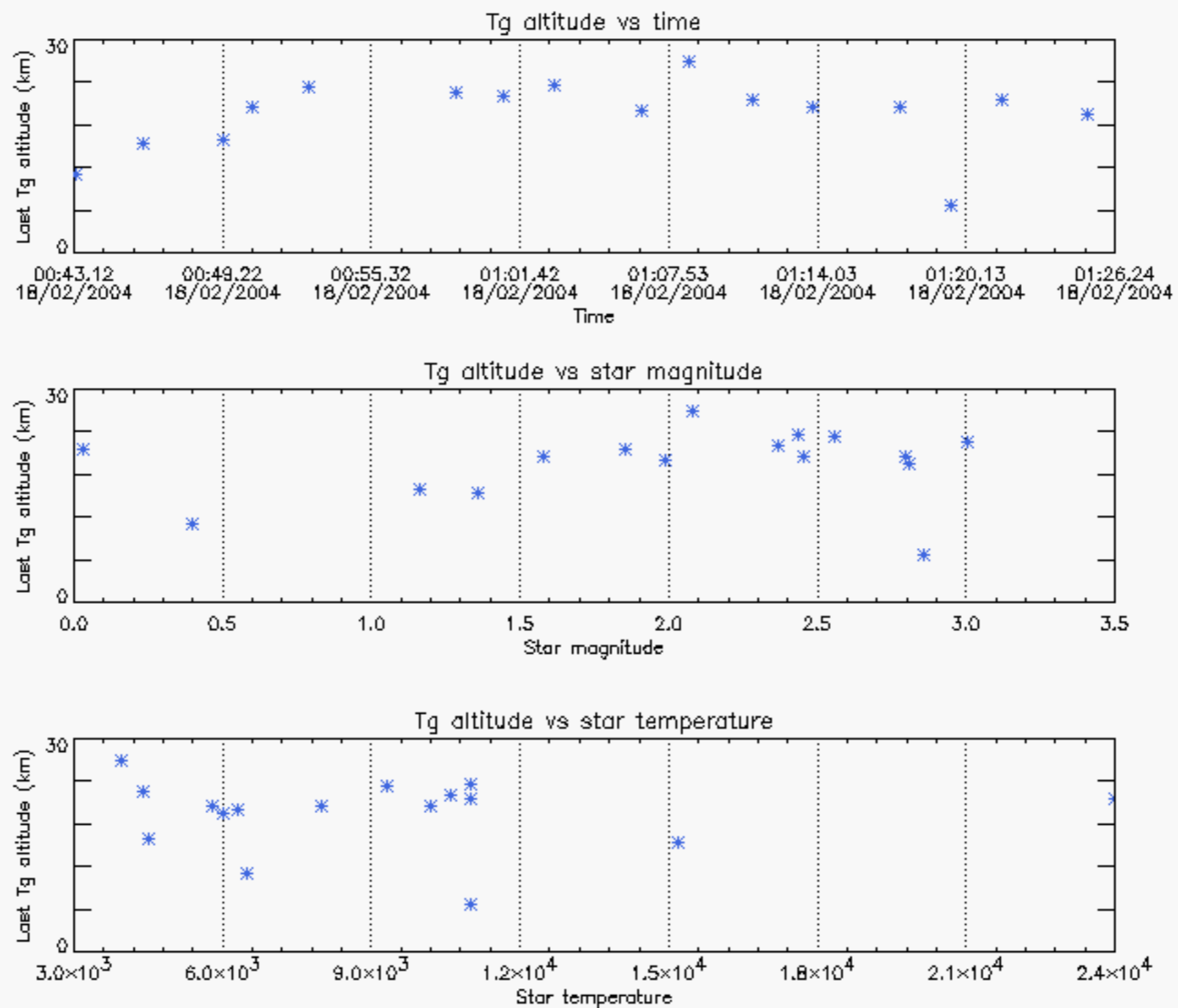




Tangent altitude at which the star is lost



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
 18; -1305.5; 01-FEB-2004 07:04:05; Bright; 98.5; 83; ; 2.38; 11000;occ; 197; 0;10051
 19; -1113.1; 01-FEB-2004 07:07:18; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;10051
 20; -902.4; 01-FEB-2004 07:10:48; Dark ; 70.0; 102; 24Alp Ser ; 2.60; 4250;occ; 140; 0;10051
 21; -724.8; 01-FEB-2004 07:13:46; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;10051
 22; -561.2; 01-FEB-2004 07:16:30; Dark ; 40.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 81; 0;10051
 23; -466.6; 01-FEB-2004 07:18:04; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;10051
 24; -332.2; 01-FEB-2004 07:20:19; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;10051
 25; -219.4; 01-FEB-2004 07:22:11; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;10051
 26; -119.6; 01-FEB-2004 07:23:51; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;10051
 27; 192.5; 01-FEB-2004 07:29:03; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;10052
 28; 272.8; 01-FEB-2004 07:30:24; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10052
 29; 468.2; 01-FEB-2004 07:33:39; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;10052
 30; 588.9; 01-FEB-2004 07:35:40; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;10052
 31; 707.2; 01-FEB-2004 07:37:38; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;10052
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26;	-138.6;	16-FEB-2004	21:17:04;	Dark	;	42.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	84;	0;	10274
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3; 336.4; 18-FEB-2004 15:19:57; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;10300
4; 415.6; 18-FEB-2004 15:21:16; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;10300
5; 502.5; 18-FEB-2004 15:22:43; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;10300
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12;	-2493.7;	18-FEB-2004	16:13:23;	Bright;		43.0;	60;	7Bet UMi	;	2.08;	3950;occ;	86;	0;	10300
13;	-2370.0;	18-FEB-2004	16:15:27;	Bright;		68.5;	39;	85Eta UMa	;	1.85;	24000;occ;	137;	0;	10300
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19;	-1213.6;	18-FEB-2004	16:34:43;	Dark	;	83.5;	127;	27Bet Her	;	2.78;	4700;occ;	167;	0;	10300
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21;	-709.4;	18-FEB-2004	16:43:07;	Dark	;	40.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	80;	0;	10300
22;	-608.4;	18-FEB-2004	16:44:48;	Dark	;	42.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	84;	0;	10300
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29;	416.3;	18-FEB-2004	17:01:53;	Dark	;	47.5;	10;	Bet Cen	;	0.61;	28000;occ;	95;	0;	10301
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17;	-1942.3;	18-FEB-2004	19:43:46;	Bright;		42.0;	69;	33Gam Dra	;	2.23;	3800;occ;	84;	0;	10302
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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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