

# GOMOS Daily Report 20-JAN-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	21JAN2004 06:53:05
Data source version	<Any version>
Start time of products	20-JAN-2004 (20JAN2004 00:00:00)
Stop time of products	21-JAN-2004 (21JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	0

## 2. Summary of products arrived in PCF

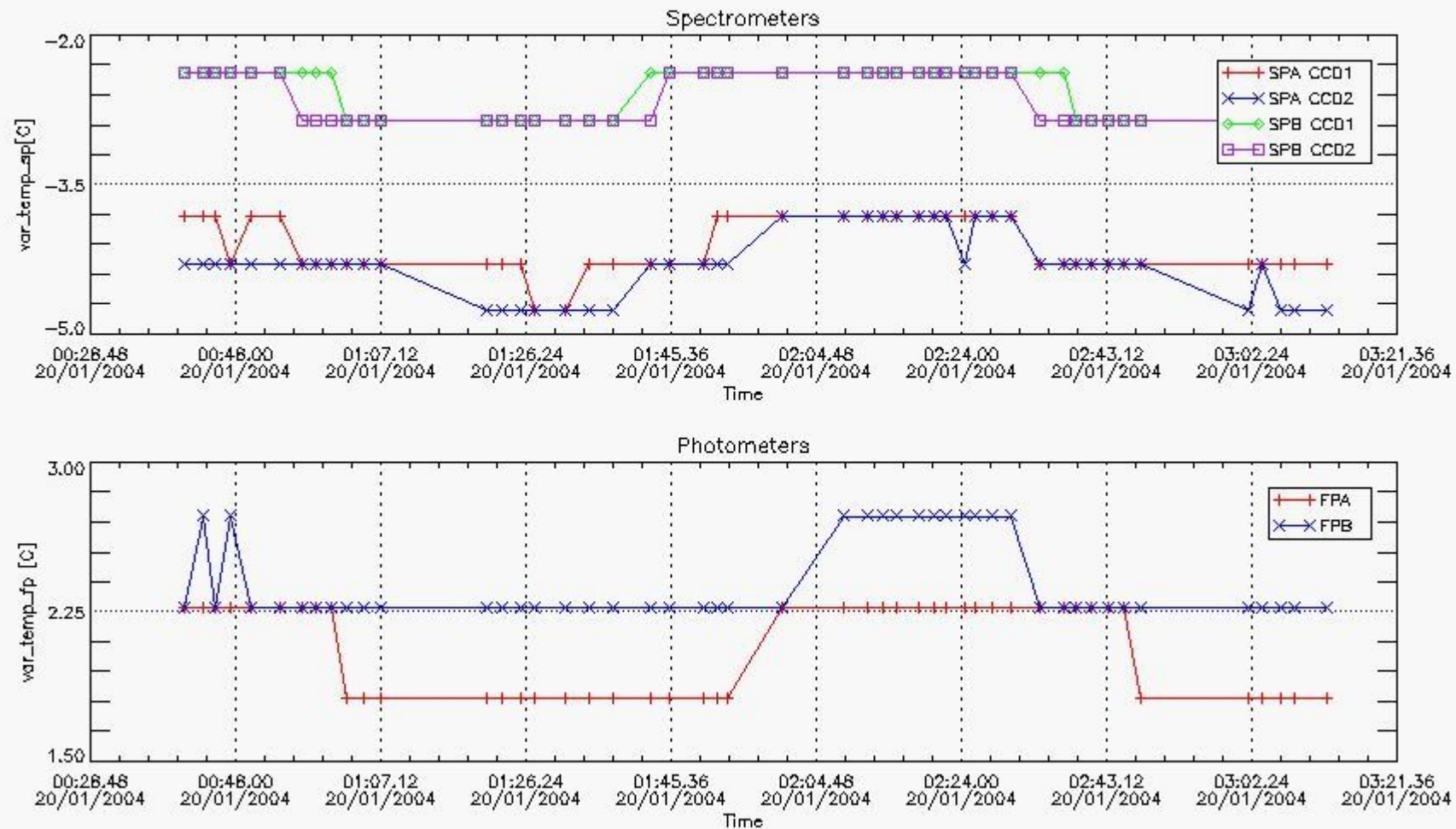
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040120_004115_000000462023_00303_09876_0000.N1	20-JAN-2004 00:41:15	Dark	45.500	117	Pi Pup	2.7060	3800.0	91	9876	No
GOM_TRA_1PNPDE20040120_004344_000000462023_00303_09876_0001.N1	20-JAN-2004 00:43:44	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	9876	No
GOM_TRA_1PNPDE20040120_004510_000000432023_00303_09876_0002.N1	20-JAN-2004 00:45:10	Dark	42.500	179	24Omi2CMa	3.0320	24000.	85	9876	No
GOM_TRA_1PNPDE20040120_004722_000000482023_00303_09876_0003.N1	20-JAN-2004 00:47:22	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	9876	No
GOM_TRA_1PNPDE20040120_005003_000000842023_00303_09876_0004.N1	20-JAN-2004 00:50:03	Dark	84.000	48	30Alp Hya	1.9770	4100.0	168	9876	No
GOM_TRA_1PNPDE20040120_005349_000000562023_00303_09876_0005.N1	20-JAN-2004 00:53:49	Dark	55.500	8	10Alp CMi	0.40000	6500.0	111	9876	No
GOM_TRA_1PNPDE20040120_005652_000000482023_00303_09876_0006.N1	20-JAN-2004 00:56:52	Dark	47.500	44	24Gam Gem	1.9280	11000.	95	9876	No
GOM_TRA_1PNPDE20040120_005836_000000432023_00303_09876_0007.N1	20-JAN-2004 00:58:36	Bright	43.000	151	13Mu Gem	2.8900	3000.0	86	9876	No
GOM_TRA_1PNPDE20040120_010038_000000432023_00303_09876_0008.N1	20-JAN-2004 01:00:38	Bright	42.500	28	12Bet Tau	1.6500	15200.	85	9876	No
GOM_TRA_1PNPDE20040120_010246_000000392023_00303_09876_0009.N1	20-JAN-2004 01:02:46	Bright	38.500	107	37The Aur	2.6490	11000.	77	9876	No
GOM_TRA_1PNPDE20040120_010456_000000392023_00303_09876_0010.N1	20-JAN-2004 01:04:56	Bright	38.500	42	34Bet Aur	1.9000	10200.	77	9876	No
GOM_TRA_1PNPDE20040120_010715_000000862023_00303_09876_0011.N1	20-JAN-2004 01:07:15	Bright	86.000	166	17Eps Leo	2.9800	6000.0	172	9876	No
GOM_TRA_1PNPDE20040120_012117_000000522023_00303_09876_0012.N1	20-JAN-2004 01:21:17	Bright	51.500	60	7Bet UMi	2.0810	3950.0	103	9876	No
GOM_TRA_1PNPDE20040120_012312_000000552023_00303_09876_0013.N1	20-JAN-2004 01:23:12	Bright	54.500	32	77Eps UMa	1.7630	11000.	109	9876	No
GOM_TRA_1PNPDE20040120_012541_000000432023_00303_09876_0014.N1	20-JAN-2004 01:25:41	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	9876	No
GOM_TRA_1PNPDE20040120_012726_000000562023_00303_09876_0015.N1	20-JAN-2004 01:27:26	Bright	56.000	39	85Eta UMa	1.8540	24000.	112	9876	No
GOM_TRA_1PNPDE20040120_013141_000000382023_00303_09876_0016.N1	20-JAN-2004 01:31:41	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	9876	No
GOM_TRA_1PNPDE20040120_013447_000000402023_00303_09876_0017.N1	20-JAN-2004 01:34:47	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	9876	No
GOM_TRA_1PNPDE20040120_013751_000000662023_00303_09876_0018.N1	20-JAN-2004 01:37:51	Bright	65.500	83		2.3780	11000.	131	9876	No
GOM_TRA_1PNPDE20040120_014259_000001232023_00303_09876_0019.N1	20-JAN-2004 01:42:59	Dark	123.00	3	16Alp Boo	-0.050000	4250.0	246	9876	No
GOM_TRA_1PNPDE20040120_014525_000001312023_00303_09876_0020.N1	20-JAN-2004 01:45:25	Dark	130.50	111	8Eta Boo	2.6800	6000.0	261	9876	No
GOM_TRA_1PNPDE20040120_014955_000000502023_00303_09876_0021.N1	20-JAN-2004 01:49:55	Dark	49.500	104	27Bet Lib	2.6140	13100.	99	9876	No
GOM_TRA_1PNPDE20040120_015136_000000512023_00303_09876_0022.N1	20-JAN-2004 01:51:36	Dark	51.000	16	21Alp Sco	1.0200	3000.0	102	9876	No
GOM_TRA_1PNPDE20040120_015309_000000452023_00303_09876_0023.N1	20-JAN-2004 01:53:09	Dark	45.000	75	26Eps Sco	2.2910	4250.0	90	9876	No
GOM_TRA_1PNPDE20040120_020023_000000452023_00303_09876_0024.N1	20-JAN-2004 02:00:23	Dark	44.500	78	Alp Lup	2.3040	28000.	89	9876	No
GOM_TRA_1PNPDE20040120_020825_000000462023_00304_09877_0025.N1	20-JAN-2004 02:08:25	Dark	46.000	99	Del Cen	2.5750	26000.	92	9877	No
GOM_TRA_1PNPDE20040120_021136_000000452023_00304_09877_0026.N1	20-JAN-2004 02:11:36	Dark	45.000	29	Bet Car	1.6720	10200.	90	9877	No
GOM_TRA_1PNPDE20040120_021338_000000502023_00304_09877_0027.N1	20-JAN-2004 02:13:38	Dark	49.500	71	lot Car	2.2460	7700.0	99	9877	No
GOM_TRA_1PNPDE20040120_021527_000000462023_00304_09877_0028.N1	20-JAN-2004 02:15:27	Dark	46.000	46	Del Vel	1.9540	10600.	92	9877	No
GOM_TRA_1PNPDE20040120_021814_000000522023_00304_09877_0029.N1	20-JAN-2004 02:18:14	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	9877	No
GOM_TRA_1PNPDE20040120_022017_000000472023_00304_09877_0030.N1	20-JAN-2004 02:20:17	Dark	47.000	70	Zet Pup	2.2460	39000.	94	9877	No
GOM_TRA_1PNPDE20040120_022152_000000472023_00304_09877_0031.N1	20-JAN-2004 02:21:52	Dark	47.000	117	Pi Pup	2.7060	3800.0	94	9877	No
GOM_TRA_1PNPDE20040120_022420_000000452023_00304_09877_0032.N1	20-JAN-2004 02:24:20	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	9877	No
GOM_TRA_1PNPDE20040120_022544_000000442023_00304_09877_0001.N1	20-JAN-2004 02:25:44	Dark	44.000	179	24Omi2CMa	3.0320	24000.	88	9877	No
GOM_TRA_1PNPDE20040120_022758_000000462023_00304_09877_0002.N1	20-JAN-2004 02:27:58	Dark	46.000	1	9Alp CMa	-1.4400	11000.	92	9877	No
GOM_TRA_1PNPDE20040120_023038_000000812023_00304_09877_0003.N1	20-JAN-2004 02:30:38	Dark	81.000	48	30Alp Hya	1.9770	4100.0	162	9877	No
GOM_TRA_1PNPDE20040120_023425_000000532023_00304_09877_0004.N1	20-JAN-2004 02:34:25	Dark	53.000	8	10Alp CMi	0.40000	6500.0	106	9877	No
GOM_TRA_1PNPDE20040120_023727_000000532023_00304_09877_0005.N1	20-JAN-2004 02:37:27	Dark	53.000	44	24Gam Gem	1.9280	11000.	106	9877	No
GOM_TRA_1PNPDE20040120_023911_000000432023_00304_09877_0006.N1	20-JAN-2004 02:39:11	Bright	42.500	151	13Mu Gem	2.8900	3000.0	85	9877	No
GOM_TRA_1PNPDE20040120_024114_000000412023_00304_09877_0007.N1	20-JAN-2004 02:41:14	Bright	41.000	28	12Bet Tau	1.6500	15200.	82	9877	No
GOM_TRA_1PNPDE20040120_024323_000000382023_00304_09877_0008.N1	20-JAN-2004 02:43:23	Bright	37.500	107	37The Aur	2.6490	11000.	75	9877	No
GOM_TRA_1PNPDE20040120_024532_000000402023_00304_09877_0009.N1	20-JAN-2004 02:45:32	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	9877	No
GOM_TRA_1PNPDE20040120_024749_000000862023_00304_09877_0010.N1	20-JAN-2004 02:47:49	Bright	86.000	166	17Eps Leo	2.9800	6000.0	172	9877	No
GOM_TRA_1PNPDE20040120_030151_000000452023_00304_09877_0011.N1	20-JAN-2004 03:01:51	Bright	44.500	60	7Bet UMi	2.0810	3950.0	89	9877	No
GOM_TRA_1PNPDE20040120_030347_000000562023_00304_09877_0012.N1	20-JAN-2004 03:03:47	Bright	55.500	32	77Eps UMa	1.7630	11000.	111	9877	No
GOM_TRA_1PNPDE20040120_030617_000000442023_00304_09877_0013.N1	20-JAN-2004 03:06:17	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	9877	No
GOM_TRA_1PNPDE20040120_030802_000000562023_00304_09877_0014.N1	20-JAN-2004 03:08:02	Bright	55.500	39	85Eta UMa	1.8540	24000.	111	9877	No
GOM_TRA_1PNPDE20040120_031214_000000382023_00304_09877_0015.N1	20-JAN-2004 03:12:14	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	9877	No

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



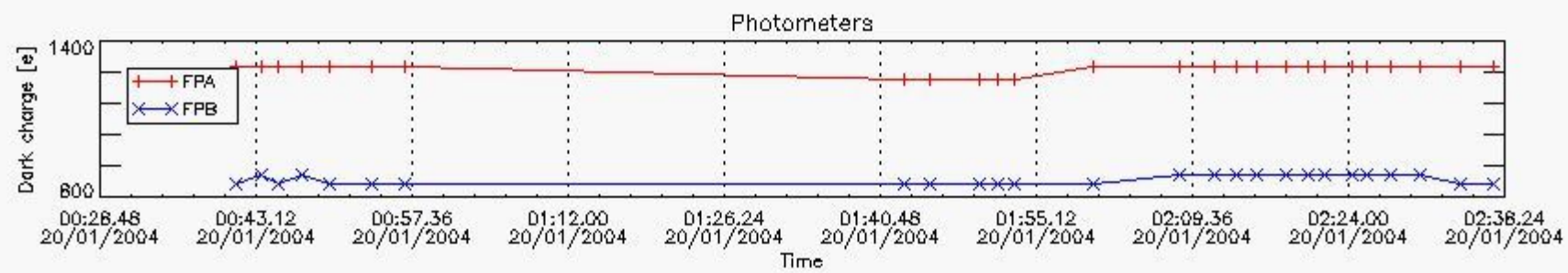
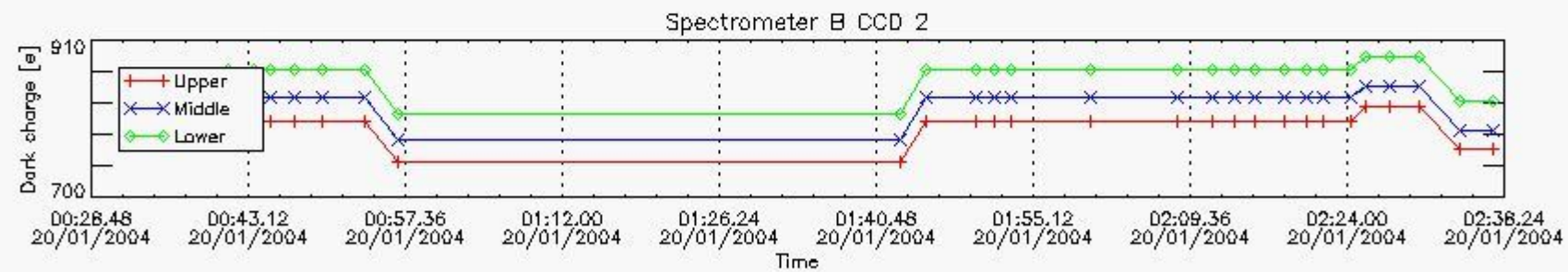
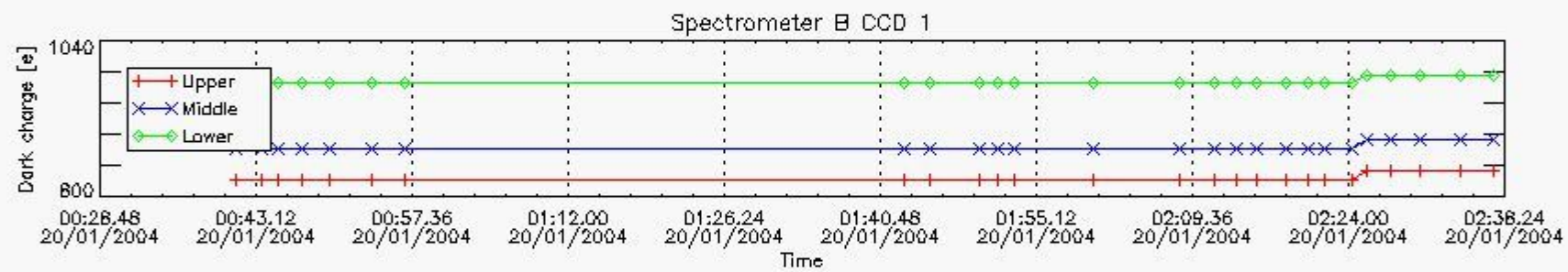
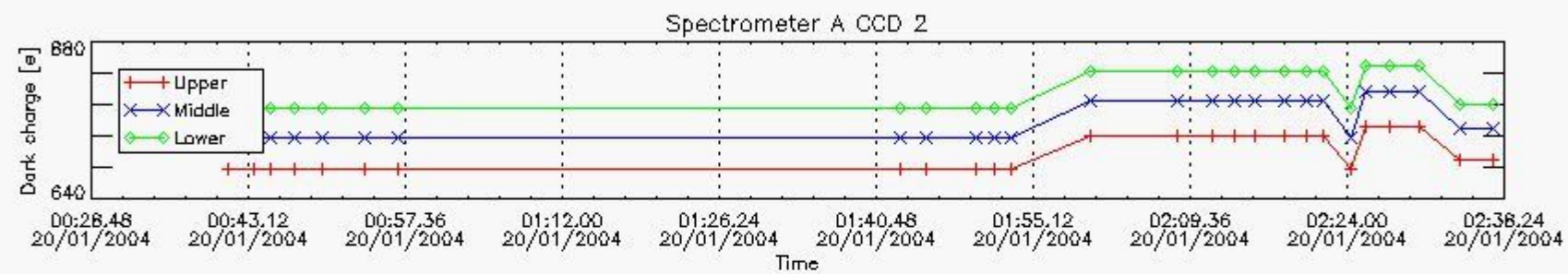
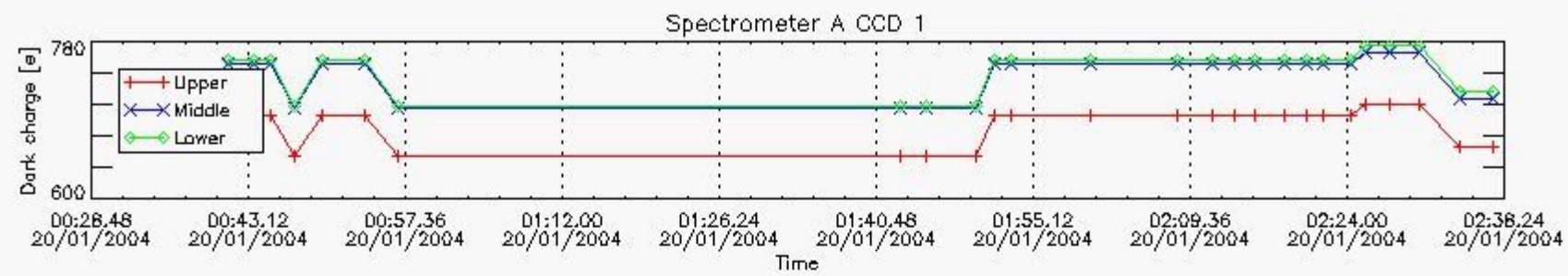
#### 4. Overview of dark signal processing per product

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

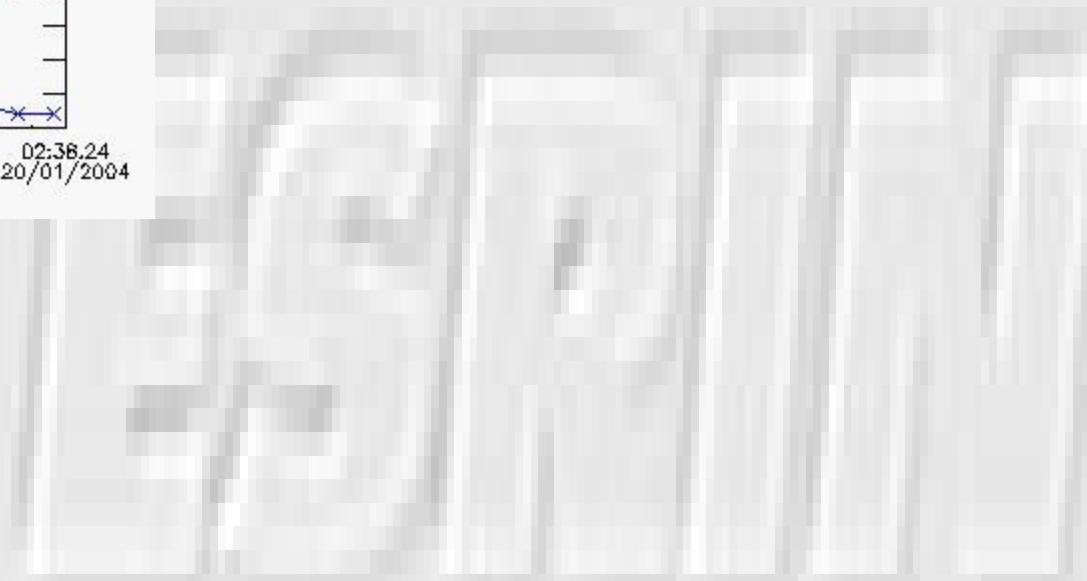
##### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



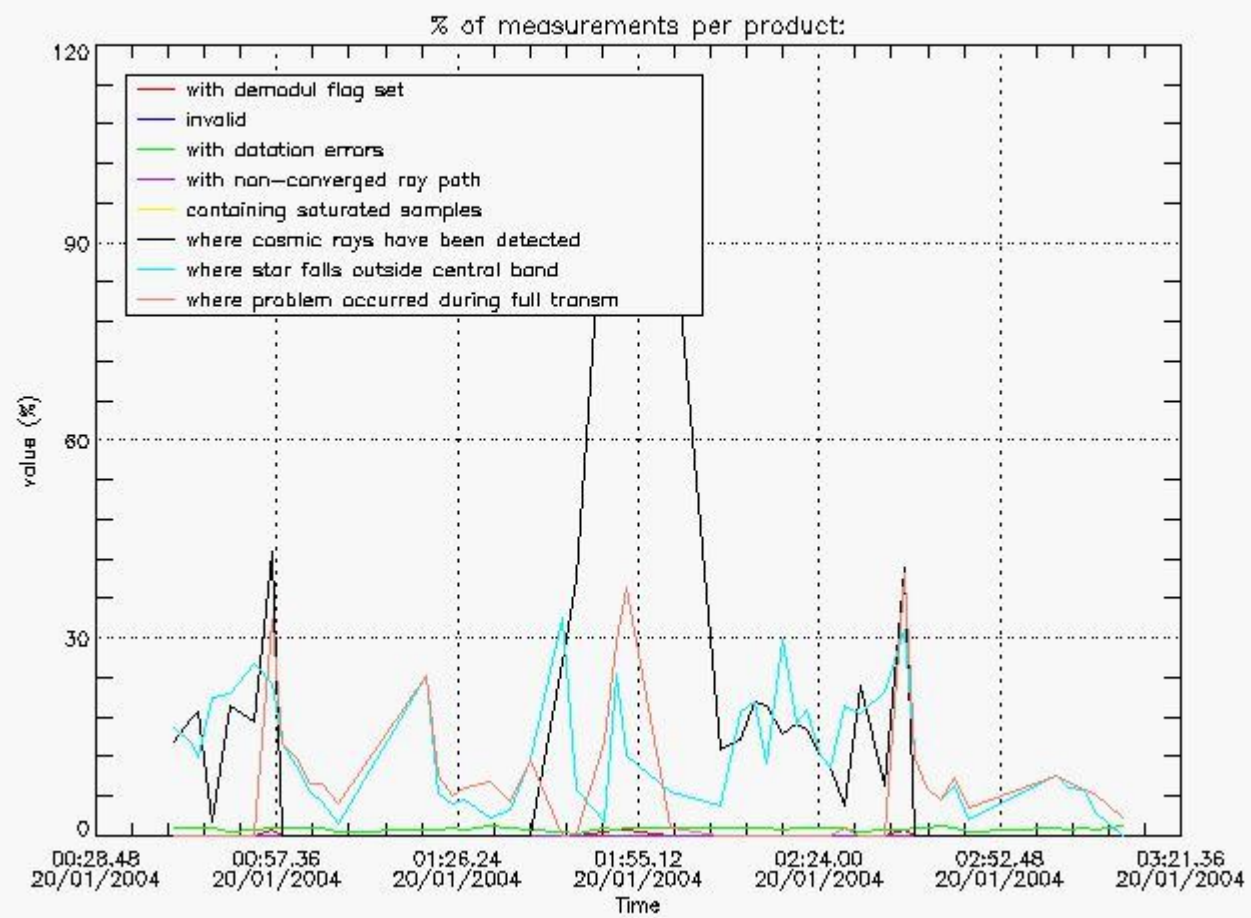
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	20.8333 %
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



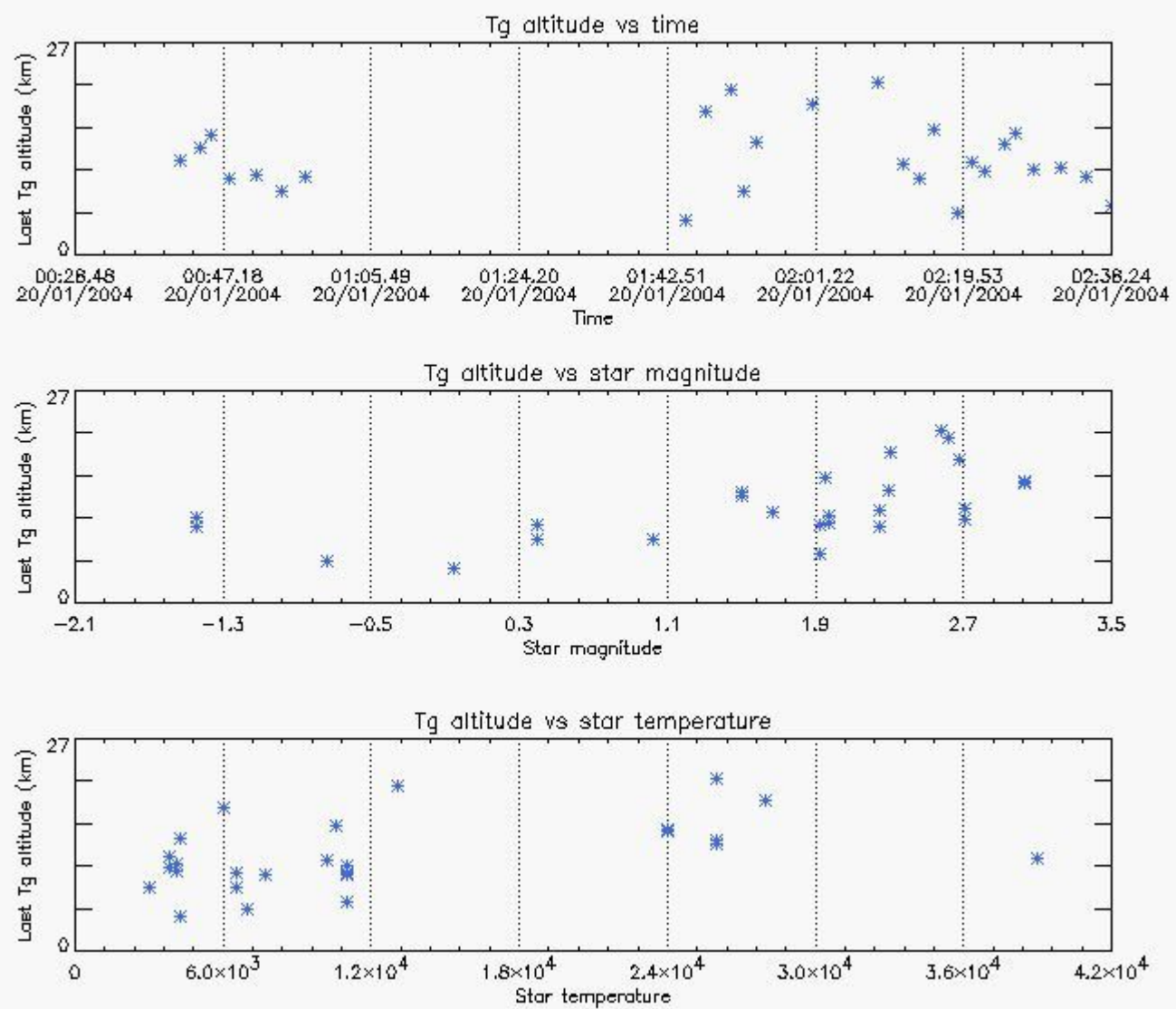
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	12.238	19.223
St. deviation:	4.5230	3.8695
Maximum:	21.907	25.214
Minimum:	4.2702	8.2683
Number of data:	26.000	22.000

### 6.2 Plot for DARK limb products

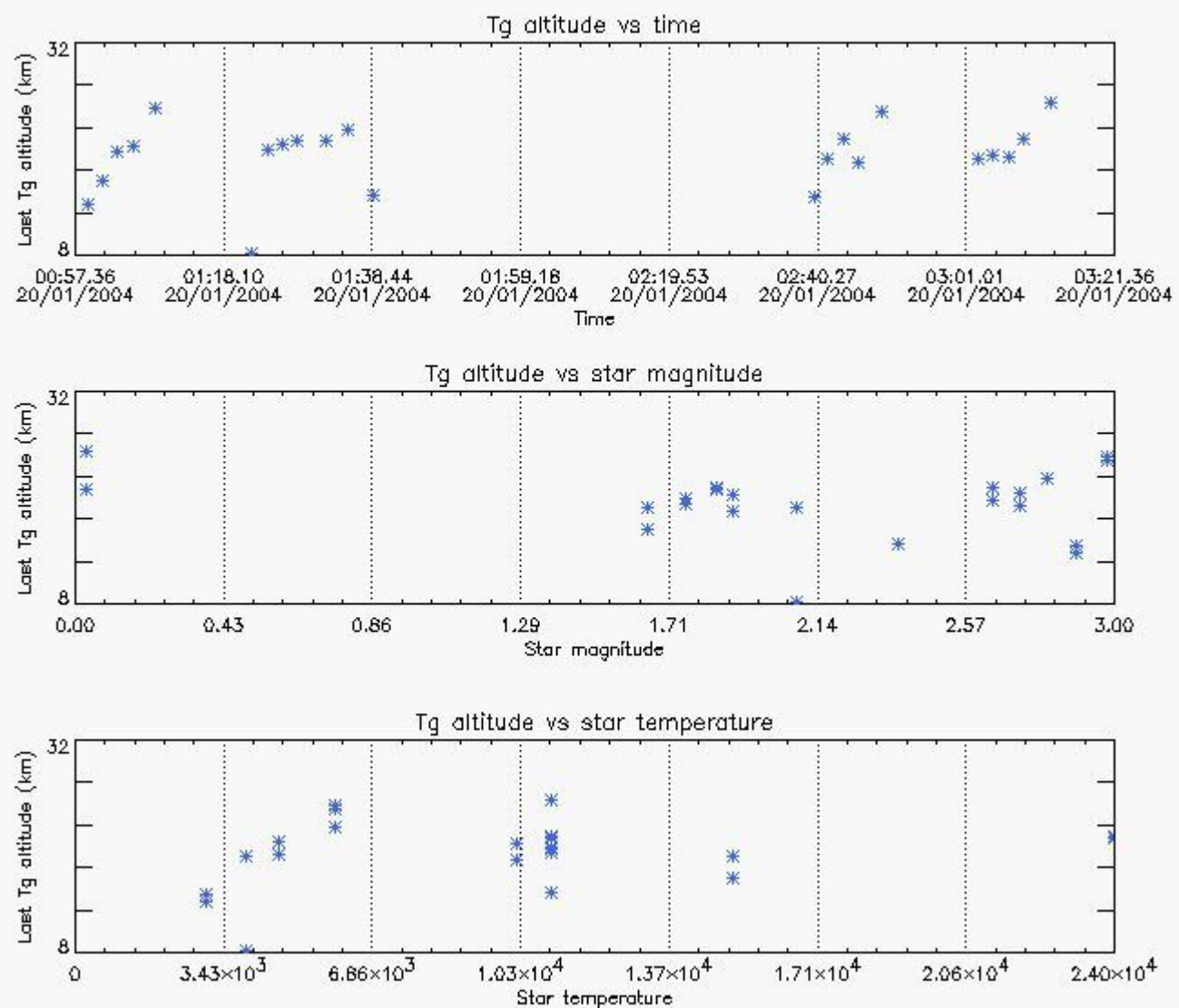
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



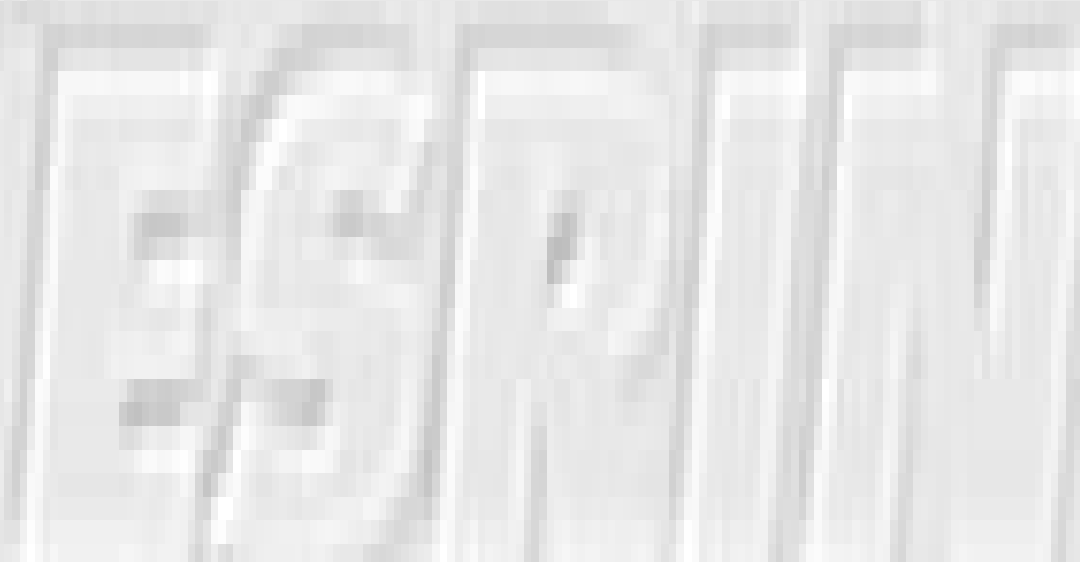
### Tangent altitude at which the star is lost



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

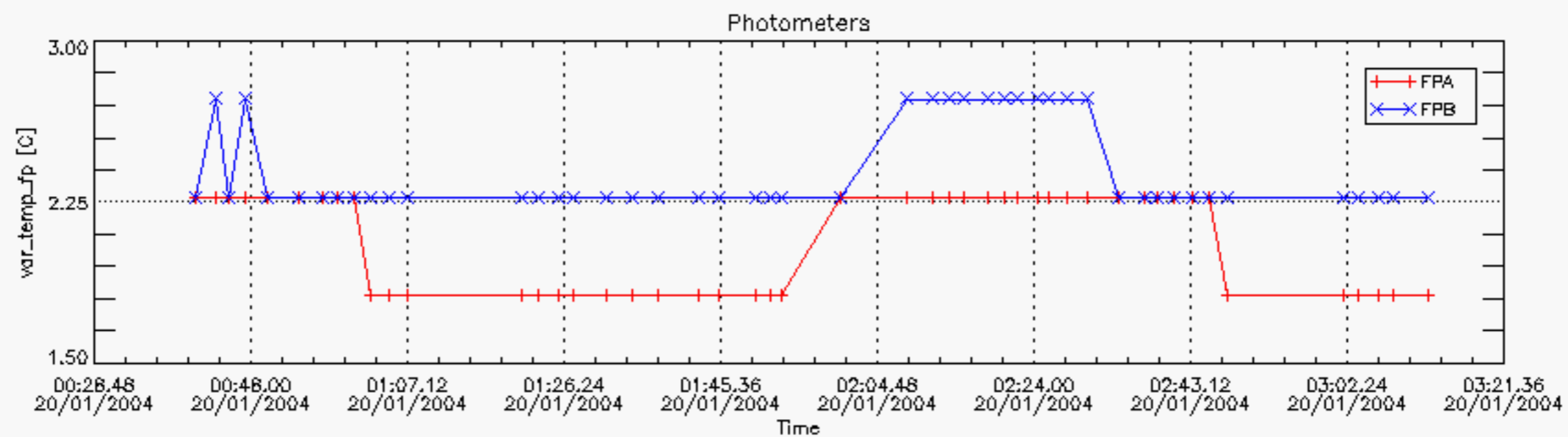
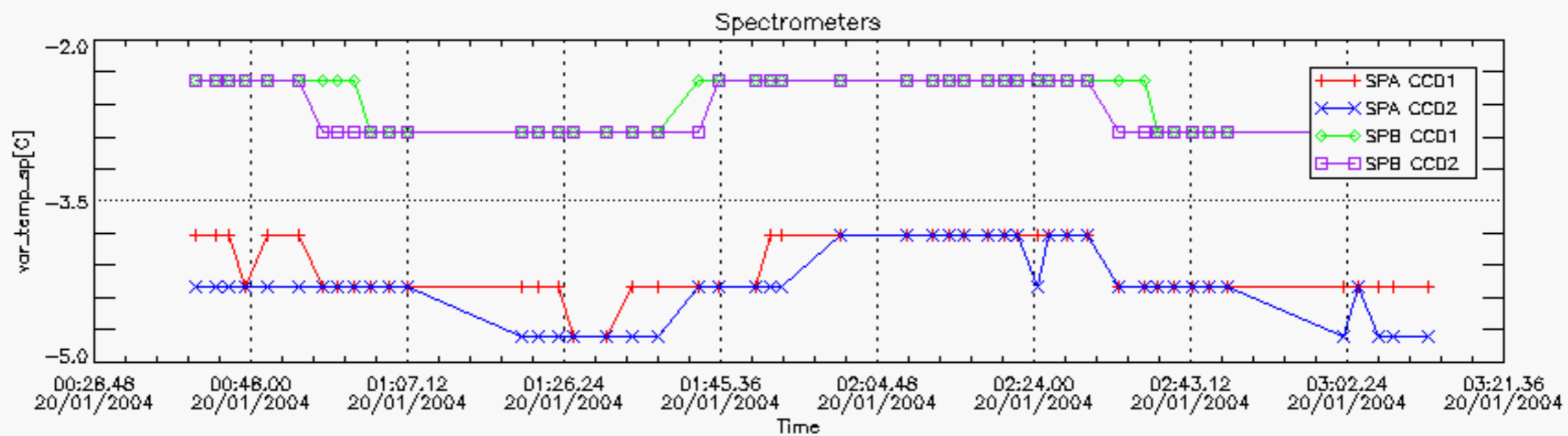
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

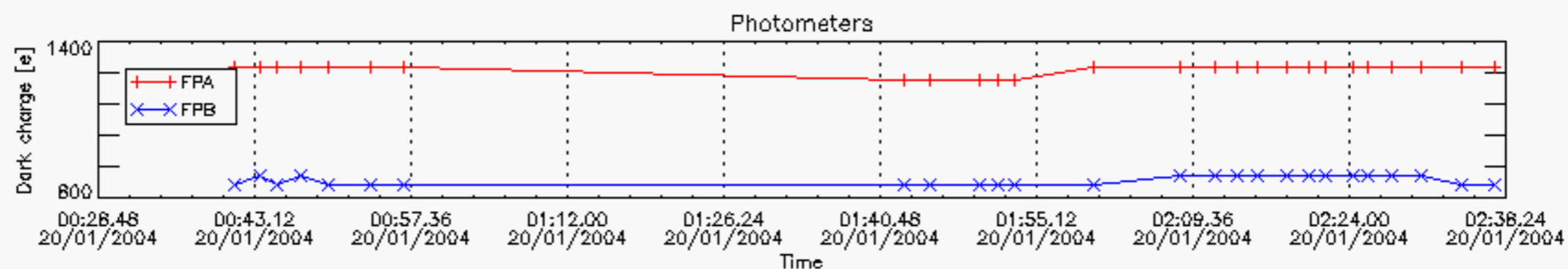
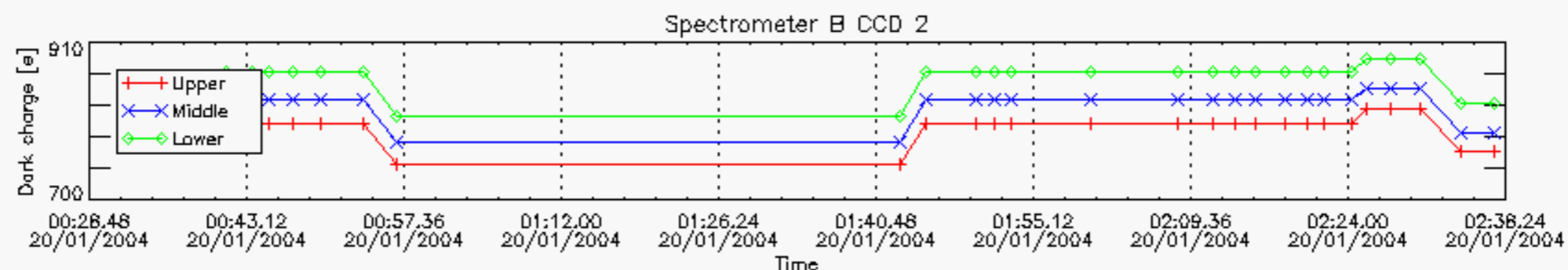
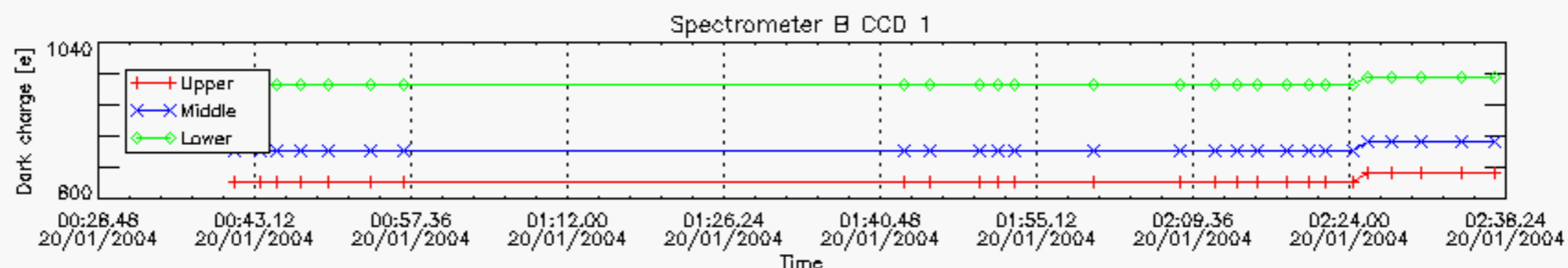
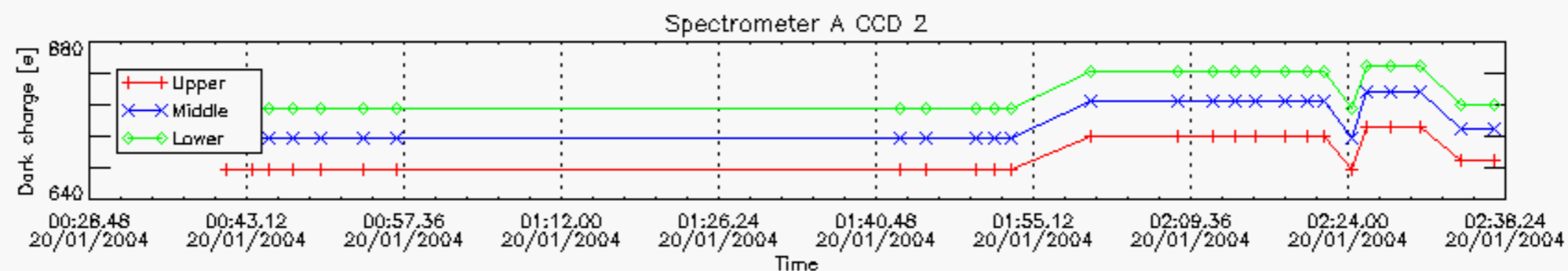
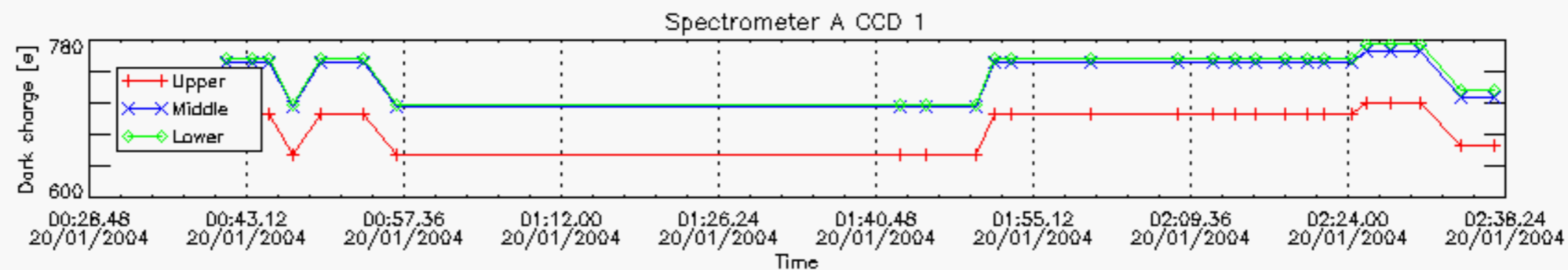
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.0	1447.5	1461.6	1448.2
St. deviation:	4.8163	6.0592	6.2494	7.3671
Maximum:	1549.0	1496.0	1502.0	1488.0
Minimum:	1443.0	1427.0	1445.0	1439.0
Number of data:	34550.	34550.	28950.	28950.

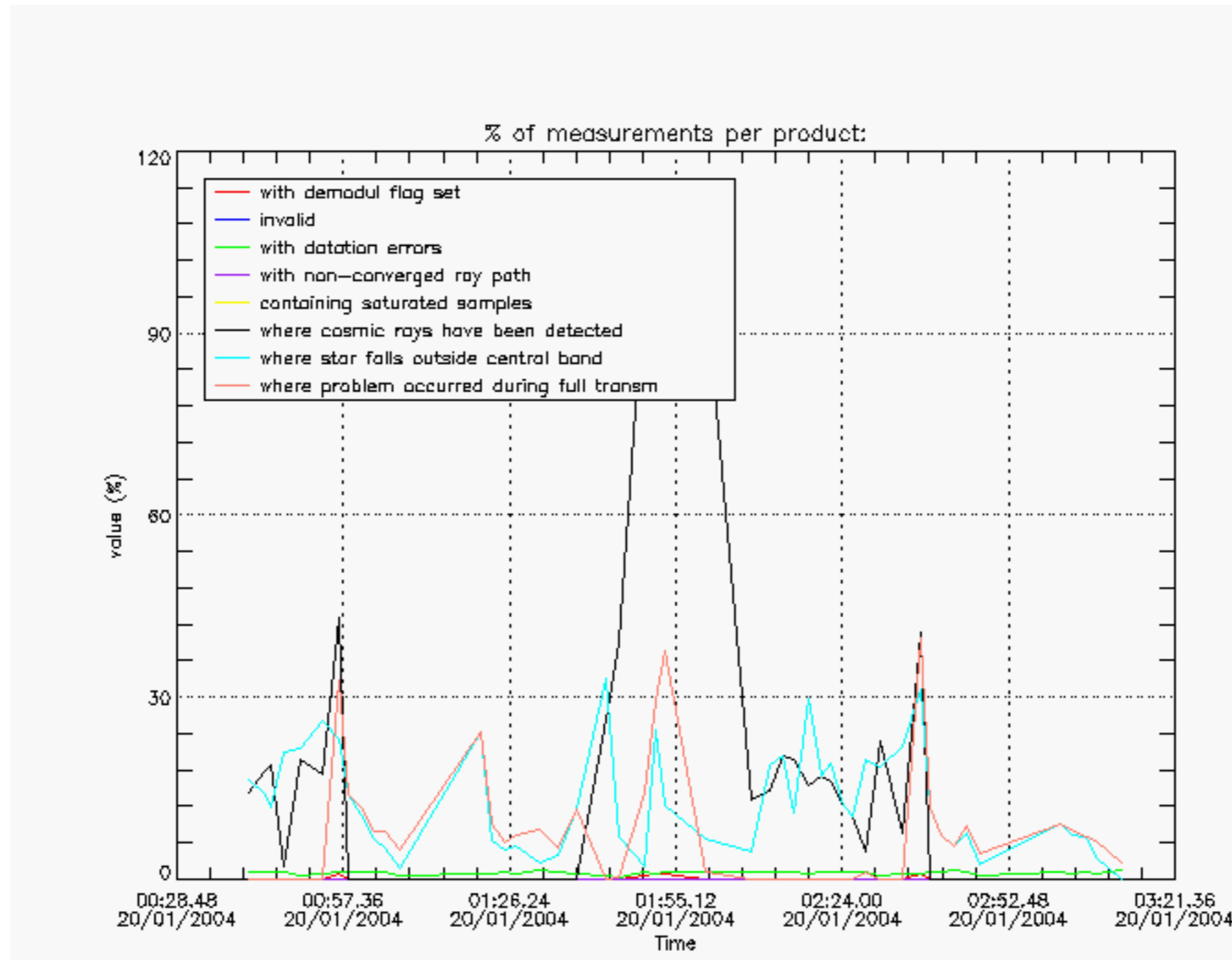




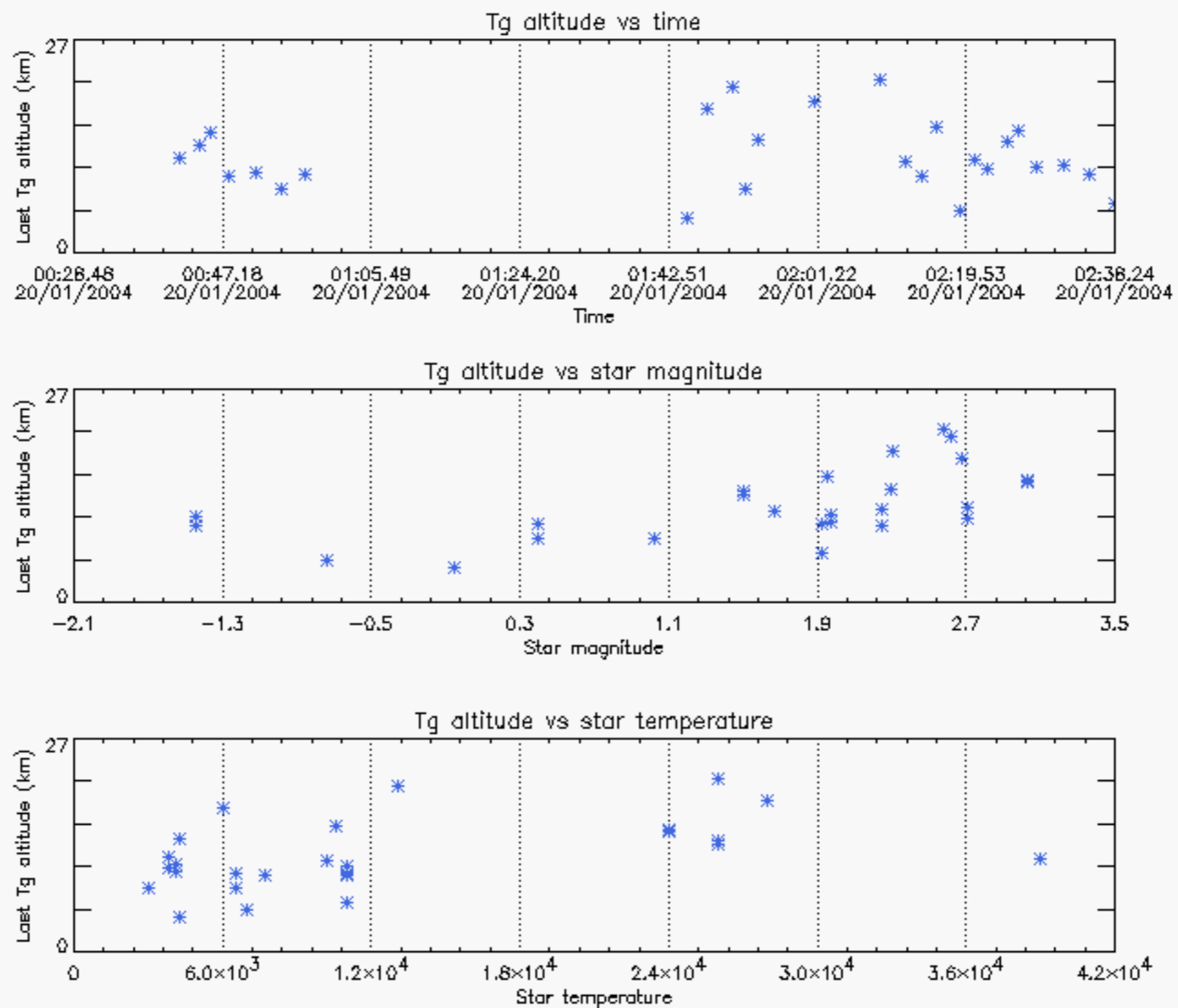




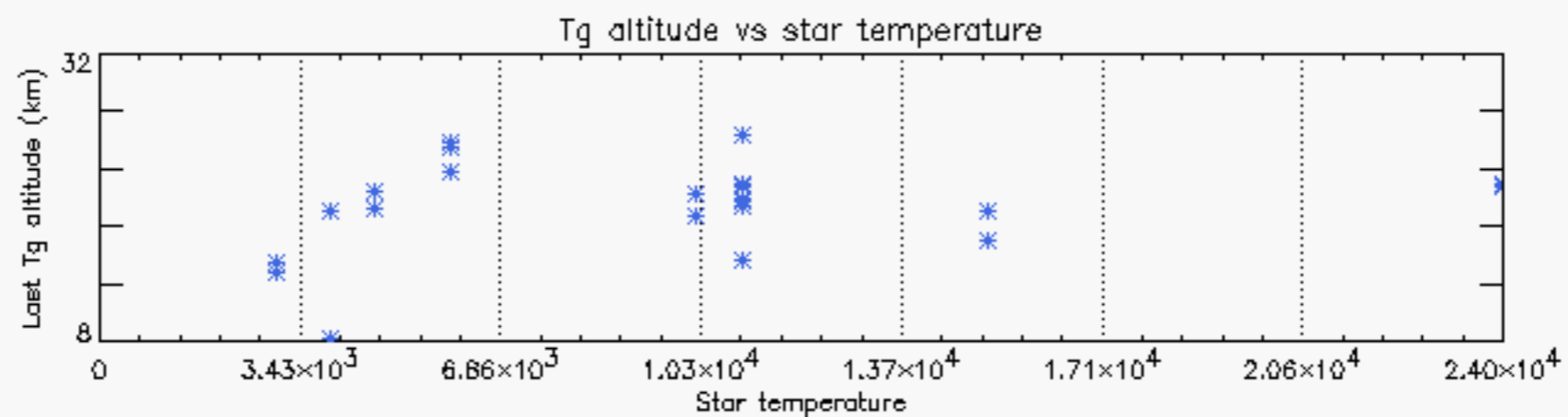
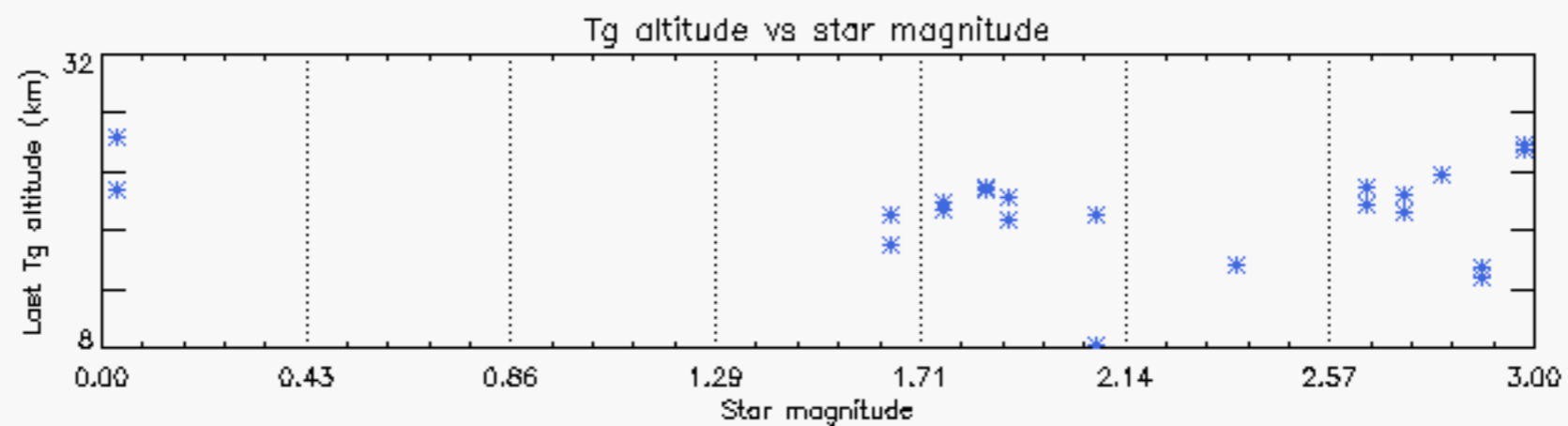
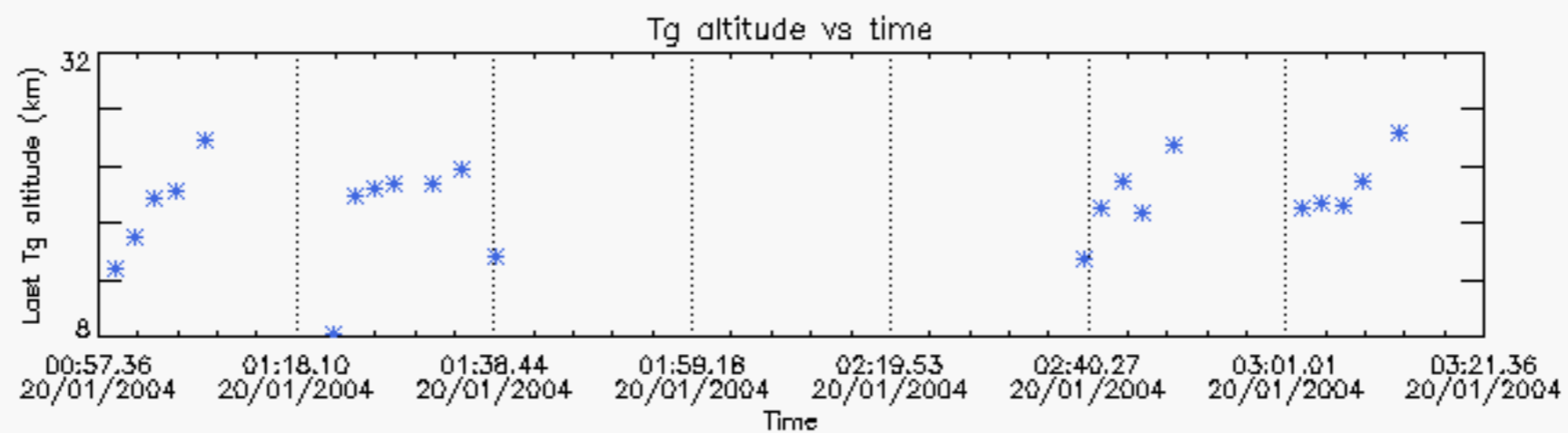




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20040101\_054855\_000060682023\_00034\_09607\_0545.N1

1;-4268.0; 01-JAN-2004 05:48:55; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0; 9607  
 2;-4156.2; 01-JAN-2004 05:50:47; Dark ; 43.5; 30; 46Eps Ori ; 1.69; 30000;occ; 87; 0; 9607  
 3;-3940.7; 01-JAN-2004 05:54:22; Dark ; 82.0; 8; 10Alp CMi ; 0.40; 6500;occ; 164; 0; 9607  
 4;-3806.3; 01-JAN-2004 05:56:37; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0; 9607  
 5;-3708.3; 01-JAN-2004 05:58:15; Bright; 47.0; 151; 13Mu Gem ; 2.89; 3000;occ; 94; 0; 9607  
 6;-3565.2; 01-JAN-2004 06:00:38; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0; 9607  
 7;-3468.9; 01-JAN-2004 06:02:14; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0; 9607  
 8;-3344.2; 01-JAN-2004 06:04:19; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0; 9607  
 9;-3237.9; 01-JAN-2004 06:06:05; Bright; 38.0; 35; 33Alp Per ; 1.79; 6250;occ; 76; 0; 9607  
 10;-3161.0; 01-JAN-2004 06:07:22; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0; 9607  
 11;-2613.9; 01-JAN-2004 06:16:29; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0; 9607  
 12;-2439.5; 01-JAN-2004 06:19:24; Bright; 51.0; 36; 50Alp UMa ; 1.80; 6300;occ; 102; 0; 9607  
 13;-2196.7; 01-JAN-2004 06:23:26; Bright; 56.5; 87; 64Gam UMa ; 2.43; 11000;occ; 113; 0; 9607  
 14;-2065.9; 01-JAN-2004 06:25:37; Bright; 47.5; 55; 79Zet UMa ; 2.06; 10200;occ; 95; 0; 9607  
 15;-1929.3; 01-JAN-2004 06:27:54; Bright; 48.5; 39; 85Eta UMa ; 1.85; 24000;occ; 97; 0; 9607  
 16;-1684.9; 01-JAN-2004 06:31:58; Bright; 42.5; 180; 27Gam Boo ; 3.04; 8000;occ; 85; 0; 9607  
 17;-1464.3; 01-JAN-2004 06:35:39; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0; 9607  
 18;-1214.9; 01-JAN-2004 06:39:48; Bright; 57.5; 111; 8Eta Boo ; 2.68; 6000;occ; 115; 0; 9607  
 19;-1008.4; 01-JAN-2004 06:43:15; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0; 9607  
 20;-844.6; 01-JAN-2004 06:45:58; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0; 9607  
 21;-685.5; 01-JAN-2004 06:48:37; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0; 9607  
 22;-483.7; 01-JAN-2004 06:51:59; Dark ; 69.5; 15; 67Alp Vir ; 0.98; 28000;occ; 139; 0; 9607  
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8;	-3482.7;	28-JAN-2004	06:53:40;	Bright;	37.5;	107;	37The Aur	; 2.65;	11000;occ;	75;	0;	9994
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