

# GOMOS Daily Report 06-APR-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	07APR2004 06:00:09
Data source version	GOMOS/4.02
Start time of products	06-APR-2004 (06APR2004 00:00:00)
Stop time of products	07-APR-2004 (07APR2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

## 2. Summary of products arrived in PCF

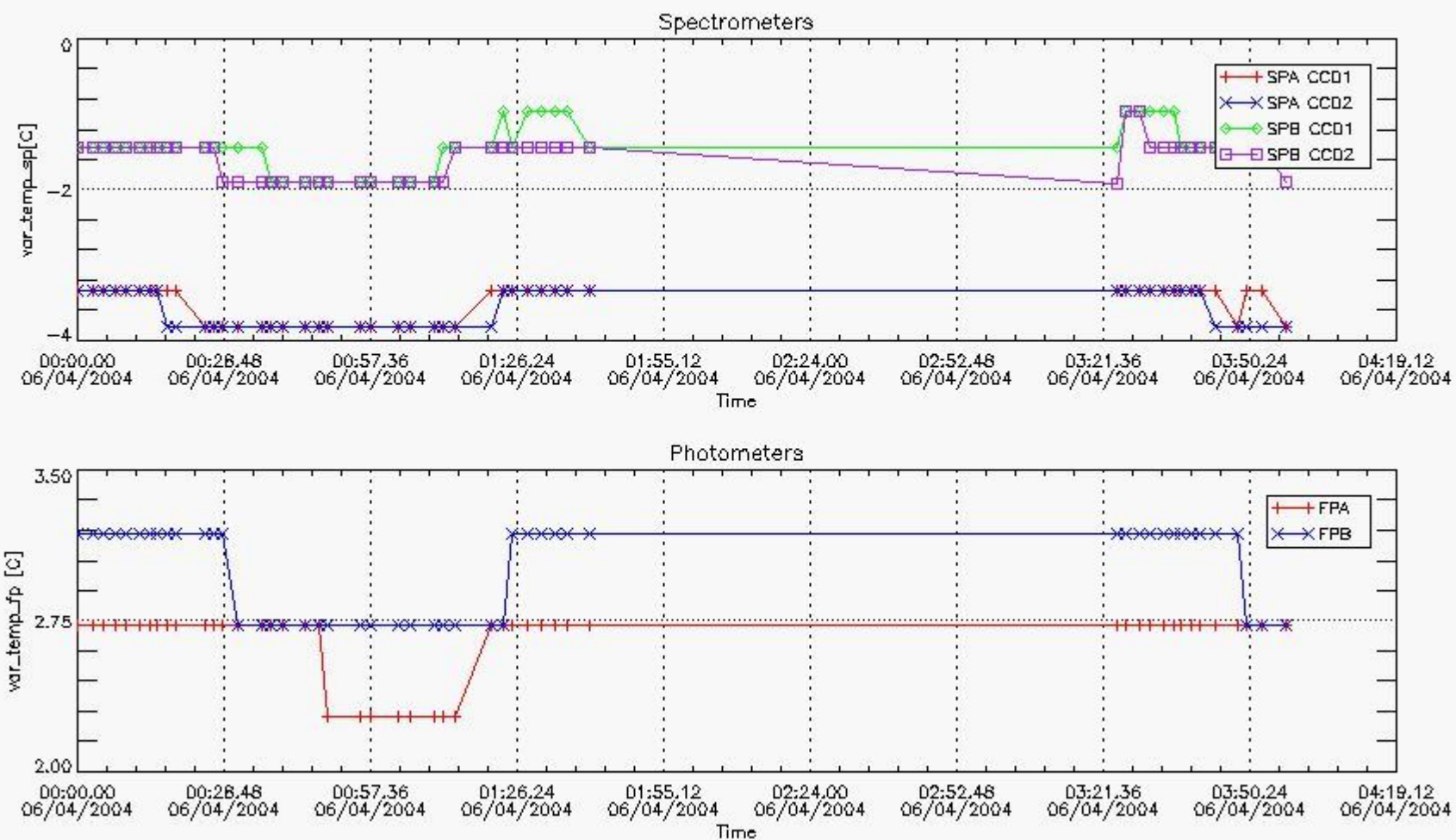
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[2.2 Summary of processed GOM\\_TRA\\_1P products.](#)

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
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GOM_TRA_1PNPDE20040406_000005_000000412025_00402_10977_0024.N1	06-APR-2004 00:00:05	Dark	41.000	45	Alp Pav	1.9400	26000.	82	10977	No
GOM_TRA_1PNPDE20040406_000311_000000612025_00403_10978_0025.N1	06-APR-2004 00:03:11	Dark	60.500	38	20Eps Sgr	1.8360	11000.	121	10978	No
GOM_TRA_1PNPDE20040406_000455_000000672025_00403_10978_0026.N1	06-APR-2004 00:04:55	Dark	67.000	167	10Gam2Sgr	2.9840	4500.0	134	10978	No
GOM_TRA_1PNPDE20040406_000725_000000712025_00403_10978_0027.N1	06-APR-2004 00:07:25	Dark	71.000	25	35Lam Sco	1.6200	28000.	142	10978	No
GOM_TRA_1PNPDE20040406_000931_000000442025_00403_10978_0028.N1	06-APR-2004 00:09:31	Dark	44.000	134	Bet TrA	2.8100	6600.0	88	10978	No
GOM_TRA_1PNPDE20040406_001207_000000522025_00403_10978_0029.N1	06-APR-2004 00:12:07	Dark	51.500	4	Alp1Cen	-0.010000	5800.0	103	10978	No
GOM_TRA_1PNPDE20040406_001407_000000472025_00403_10978_0030.N1	06-APR-2004 00:14:07	Dark	47.000	12	Alp1Cru	0.77500	30000.	94	10978	No
GOM_TRA_1PNPDE20040406_001536_000000522025_00403_10978_0031.N1	06-APR-2004 00:15:36	Dark	52.000	26	Gam Cru	1.6240	2900.0	104	10978	No
GOM_TRA_1PNPDE20040406_001736_000000412025_00403_10978_0032.N1	06-APR-2004 00:17:36	Dark	41.000	64	Gam Cen	2.2000	10600.	82	10978	No
GOM_TRA_1PNPDE20040406_001915_000000532025_00403_10978_0033.N1	06-APR-2004 00:19:15	Dark	53.000	54	5The Cen	2.0550	4500.0	106	10978	No
GOM_TRA_1PNPDE20040406_002454_000000462025_00403_10978_0000.N1	06-APR-2004 00:24:54	Dark	45.500	106	9Bet Crv	2.6480	5600.0	91	10978	No
GOM_TRA_1PNPDE20040406_002648_000000432025_00403_10978_0001.N1	06-APR-2004 00:26:48	Dark	42.500	100	4Gam Crv	2.5800	13100.	85	10978	No
GOM_TRA_1PNPDE20040406_002827_000000562025_00403_10978_0002.N1	06-APR-2004 00:28:27	Bright	55.500	15	67Alp Vir	0.97600	28000.	111	10978	No
GOM_TRA_1PNPDE20040406_003135_000000442025_00403_10978_0003.N1	06-APR-2004 00:31:35	Bright	44.000	121	29Gam Vir	2.7400	7200.0	88	10978	No
GOM_TRA_1PNPDE20040406_003614_000000402025_00403_10978_0004.N1	06-APR-2004 00:36:14	Bright	39.500	62	94Bet Leo	2.1360	9700.0	79	10978	No
GOM_TRA_1PNPDE20040406_003758_000000382025_00403_10978_0005.N1	06-APR-2004 00:37:58	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	10978	No
GOM_TRA_1PNPDE20040406_004020_000000582025_00403_10978_0006.N1	06-APR-2004 00:40:20	Bright	58.000	111	8Eta Boo	2.6800	6000.0	116	10978	No
GOM_TRA_1PNPDE20040406_004443_000000382025_00403_10978_0007.N1	06-APR-2004 00:44:43	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	10978	No
GOM_TRA_1PNPDE20040406_004733_000000392025_00403_10978_0008.N1	06-APR-2004 00:47:33	Bright	38.500	87	64Gam UMa	2.4330	11000.	77	10978	No
GOM_TRA_1PNPDE20040406_004908_000000412025_00403_10978_0009.N1	06-APR-2004 00:49:08	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	10978	No
GOM_TRA_1PNPDE20040406_005532_000000432025_00403_10978_0010.N1	06-APR-2004 00:55:32	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	10978	No
GOM_TRA_1PNPDE20040406_005740_000000362025_00403_10978_0011.N1	06-APR-2004 00:57:40	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	10978	No
GOM_TRA_1PNPDE20040406_010252_000000612025_00403_10978_0012.N1	06-APR-2004 01:02:52	Bright	61.000	130	23Bet Dra	2.7990	5800.0	122	10978	No
GOM_TRA_1PNPDE20040406_010514_000000392025_00403_10978_0013.N1	06-APR-2004 01:05:14	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	10978	No
GOM_TRA_1PNPDE20040406_011006_000000502025_00403_10978_0014.N1	06-APR-2004 01:10:06	Bright	50.000	144	18Del Cyg	2.8600	11000.	100	10978	No
GOM_TRA_1PNPDE20040406_011156_000000882025_00403_10978_0015.N1	06-APR-2004 01:11:56	Bright	87.500	5	3Alp Lyr	0.033000	11000.	175	10978	No
GOM_TRA_1PNPDE20040406_011421_000000482025_00403_10978_0016.N1	06-APR-2004 01:14:21	Bright	48.000	92	53Eps Cyg	2.5000	4500.0	96	10978	No
GOM_TRA_1PNPDE20040406_012108_000000482025_00403_10978_0017.N1	06-APR-2004 01:21:08	Dark	48.000	61	8Eps Peg	2.1000	3900.0	96	10978	No
GOM_TRA_1PNPDE20040406_012338_000000432025_00403_10978_0018.N1	06-APR-2004 01:23:38	Dark	42.500	162	34Alp Aqr	2.9440	5350.0	85	10978	No
GOM_TRA_1PNPDE20040406_012531_000000822025_00403_10978_0019.N1	06-APR-2004 01:25:31	Dark	81.500	11	53Alp Aql	0.76500	8000.0	163	10978	No
GOM_TRA_1PNPDE20040406_012823_000000452025_00403_10978_0020.N1	06-APR-2004 01:28:23	Dark	44.500	142	49Del Cap	2.8500	8900.0	89	10978	No
GOM_TRA_1PNPDE20040406_013100_000000422025_00403_10978_0021.N1	06-APR-2004 01:31:00	Dark	42.000	18	24Alp PsA	1.1660	9700.0	84	10978	No
GOM_TRA_1PNPDE20040406_013353_000000402025_00403_10978_0022.N1	06-APR-2004 01:33:53	Dark	40.000	172	Gam Gru	3.0030	13100.	80	10978	No
GOM_TRA_1PNPDE20040406_013609_000000432025_00403_10978_0023.N1	06-APR-2004 01:36:09	Dark	43.000	31	Alp Gru	1.7340	15200.	86	10978	No
GOM_TRA_1PNPDE20040406_014041_000000452025_00403_10978_0024.N1	06-APR-2004 01:40:41	Dark	45.000	45	Alp Pav	1.9400	26000.	90	10978	No
GOM_TRA_1PNPDE20040406_032425_000000612025_00405_10980_0000.N1	06-APR-2004 03:24:25	Dark	60.500	38	20Eps Sgr	1.8360	11000.	121	10980	No
GOM_TRA_1PNPDE20040406_032609_000000692025_00405_10980_0001.N1	06-APR-2004 03:26:09	Dark	68.500	167	10Gam2Sgr	2.9840	4500.0	137	10980	No
GOM_TRA_1PNPDE20040406_032839_000000722025_00405_10980_0002.N1	06-APR-2004 03:28:39	Dark	71.500	25	35Lam Sco	1.6200	28000.	143	10980	No
GOM_TRA_1PNPDE20040406_033047_000000432025_00405_10980_0003.N1	06-APR-2004 03:30:47	Dark	42.500	134	Bet TrA	2.8100	6600.0	85	10980	No
GOM_TRA_1PNPDE20040406_033321_000000552025_00405_10980_0004.N1	06-APR-2004 03:33:21	Dark	55.000	4	Alp1Cen	-0.010000	5800.0	110	10980	No
GOM_TRA_1PNPDE20040406_033519_000000452025_00405_10980_0005.N1	06-APR-2004 03:35:19	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	10980	No
GOM_TRA_1PNPDE20040406_033649_000000462025_00405_10980_0006.N1	06-APR-2004 03:36:49	Dark	46.000	26	Gam Cru	1.6240	2900.0	92	10980	No
GOM_TRA_1PNPDE20040406_033849_000000432025_00405_10980_0007.N1	06-APR-2004 03:38:49	Dark	42.500	64	Gam Cen	2.2000	10600.	85	10980	No
GOM_TRA_1PNPDE20040406_034029_000000522025_00405_10980_0008.N1	06-APR-2004 03:40:29	Dark	52.000	54	5The Cen	2.0550	4500.0	104	10980	No
GOM_TRA_1PNPDE20040406_034331_000001322025_00405_10980_0009.N1	06-APR-2004 03:43:31	Dark	131.50	97	8Bet1Sco	2.5610	30000.	263	10980	No
GOM_TRA_1PNPDE20040406_034801_000000432025_00405_10980_0000.N1	06-APR-2004 03:48:01	Dark	43.000	100	4Gam Crv	2.5800	13100.	86	10980	No
GOM_TRA_1PNPDE20040406_034939_000000542025_00405_10980_0001.N1	06-APR-2004 03:49:39	Bright	53.500	15	67Alp Vir	0.97600	28000.	107	10980	No
GOM_TRA_1PNPDE20040406_035248_000000432025_00405_10980_0002.N1	06-APR-2004 03:52:48	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	10980	No
GOM_TRA_1PNPDE20040406_035727_000000392025_00405_10980_0003.N1	06-APR-2004 03:57:27	Bright	38.500	62	94Bet Leo	2.1360	9700.0	77	10980	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).

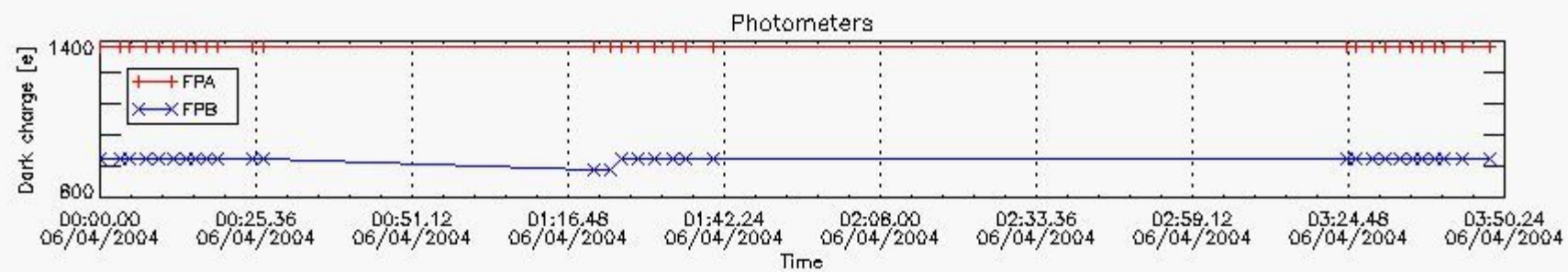
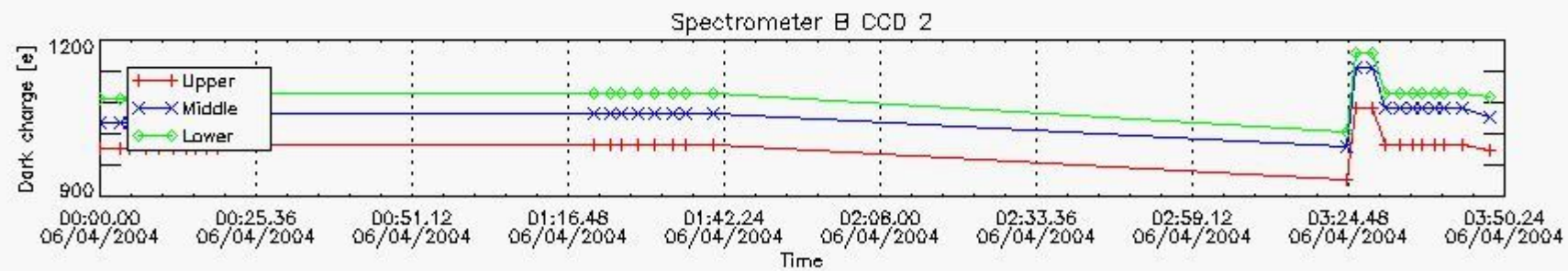
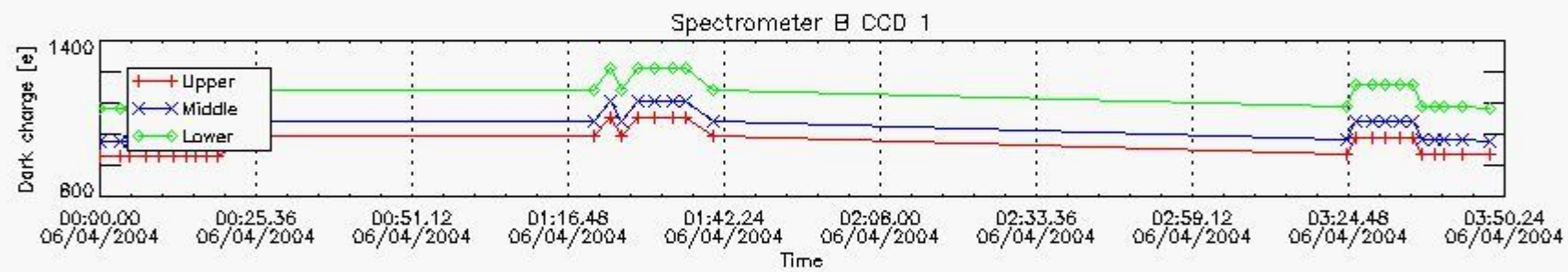
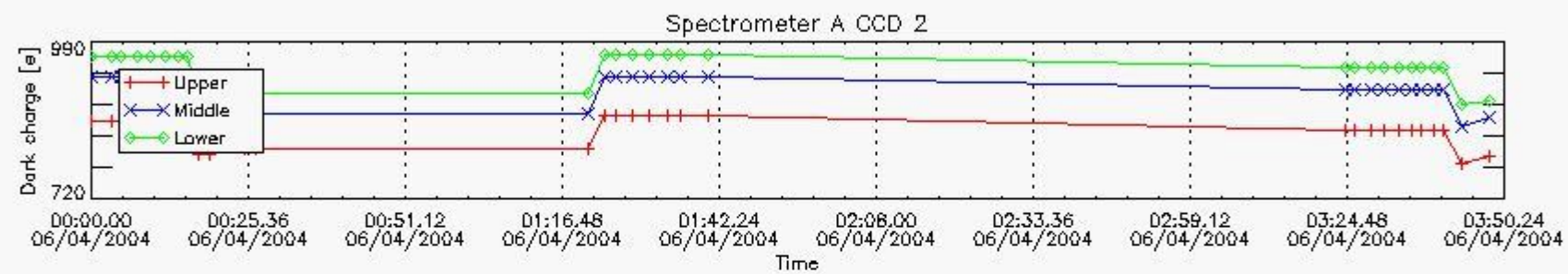
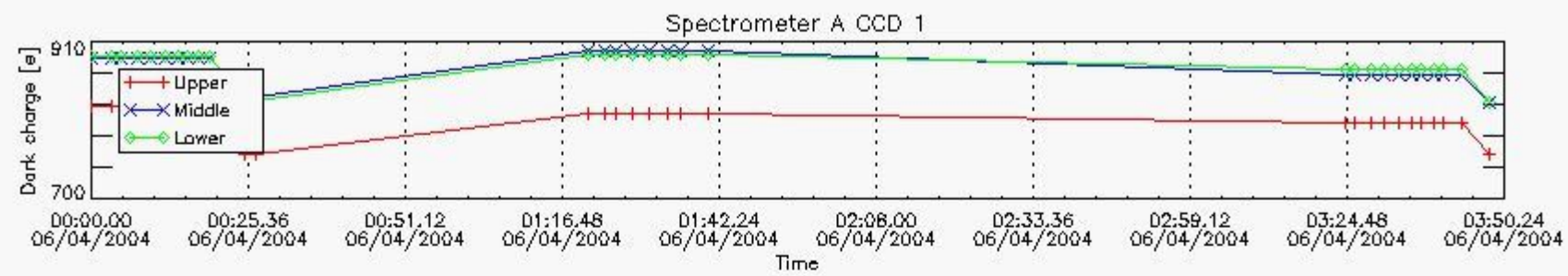
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040406_032425_000000612025_00405_10980_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040406_032609_000000692025_00405_10980_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040406_032839_000000722025_00405_10980_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040406_033047_000000432025_00405_10980_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040406_033321_000000552025_00405_10980_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040406_033519_000000452025_00405_10980_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040406_033649_000000462025_00405_10980_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040406_033849_000000432025_00405_10980_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20040406_034029_000000522025_00405_10980_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20040406_034331_000001322025_00405_10980_0009.N1	DC map used (0)

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





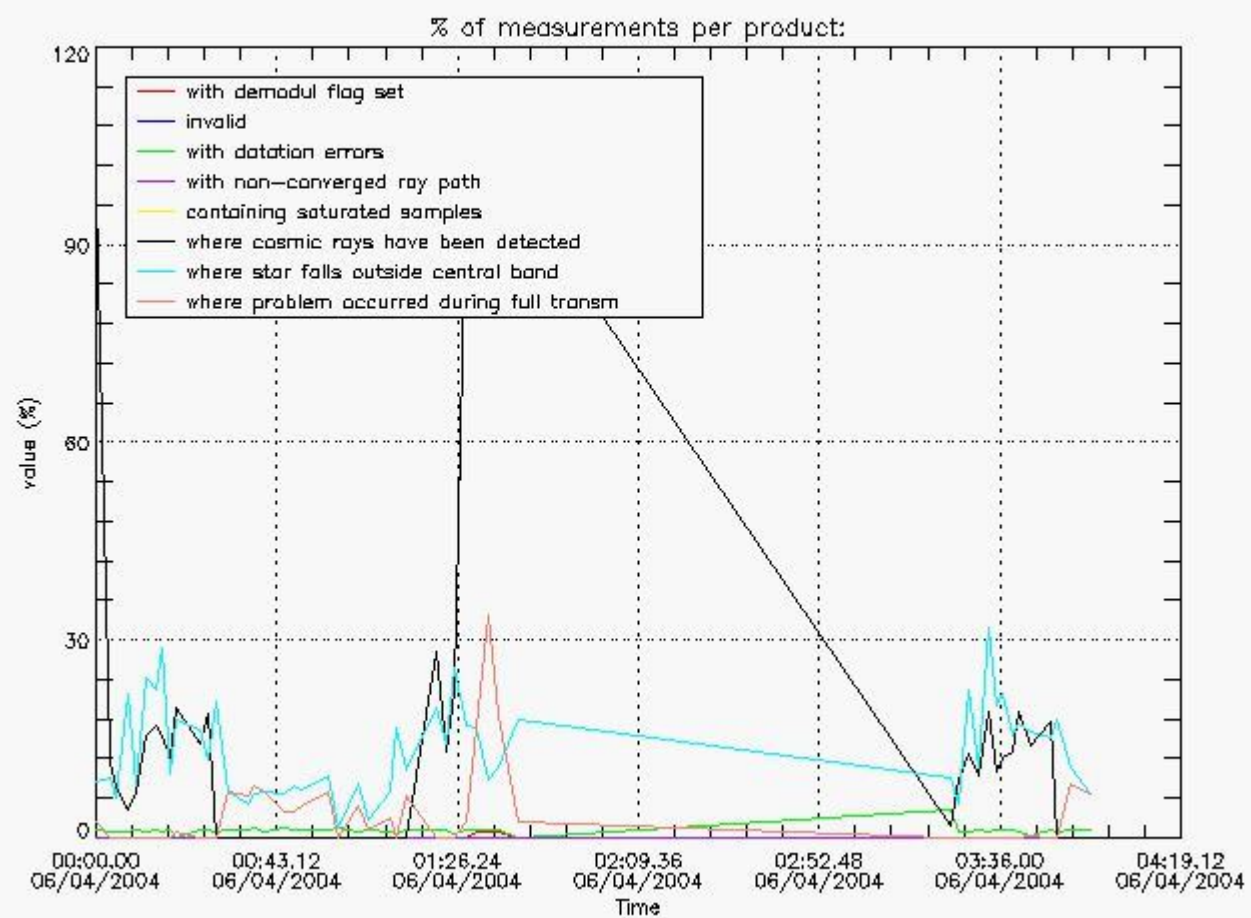
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	18.3673 %
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



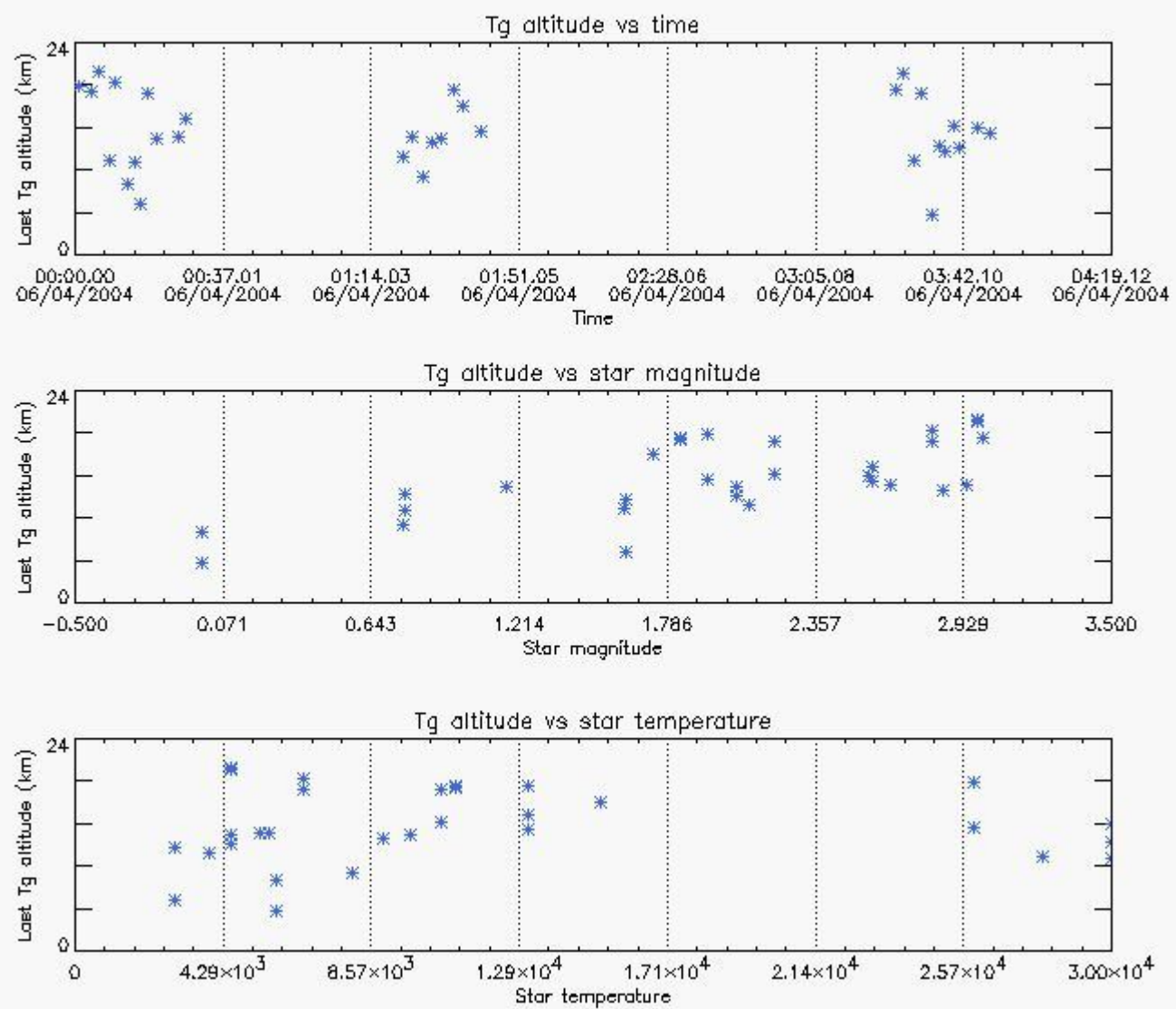
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.963	19.188
St. deviation:	4.2252	3.7473
Maximum:	20.805	25.172
Minimum:	4.4770	11.134
Number of data:	31.000	18.000

### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

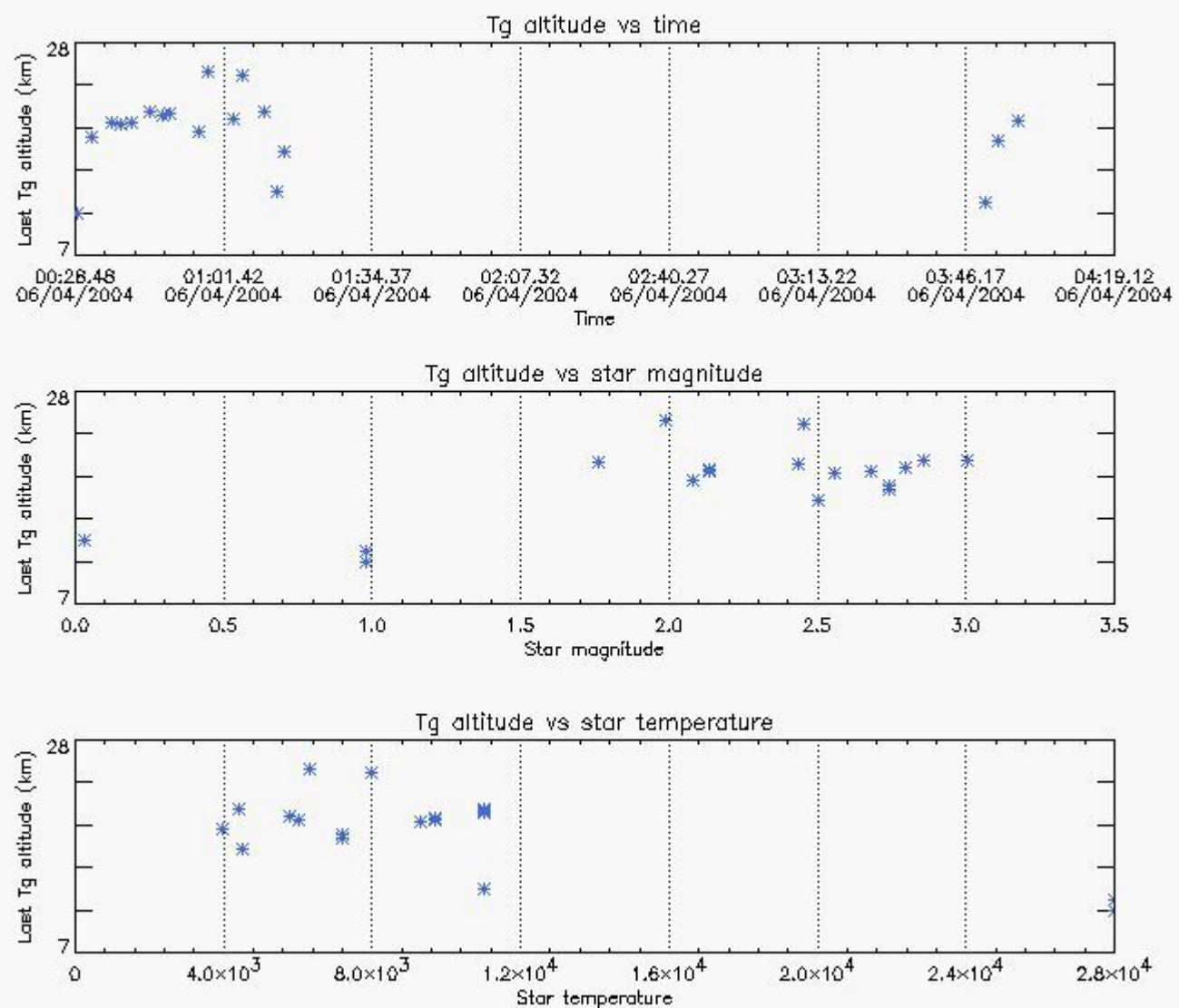


6.3 Plot for BRIGHT limb products





### 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

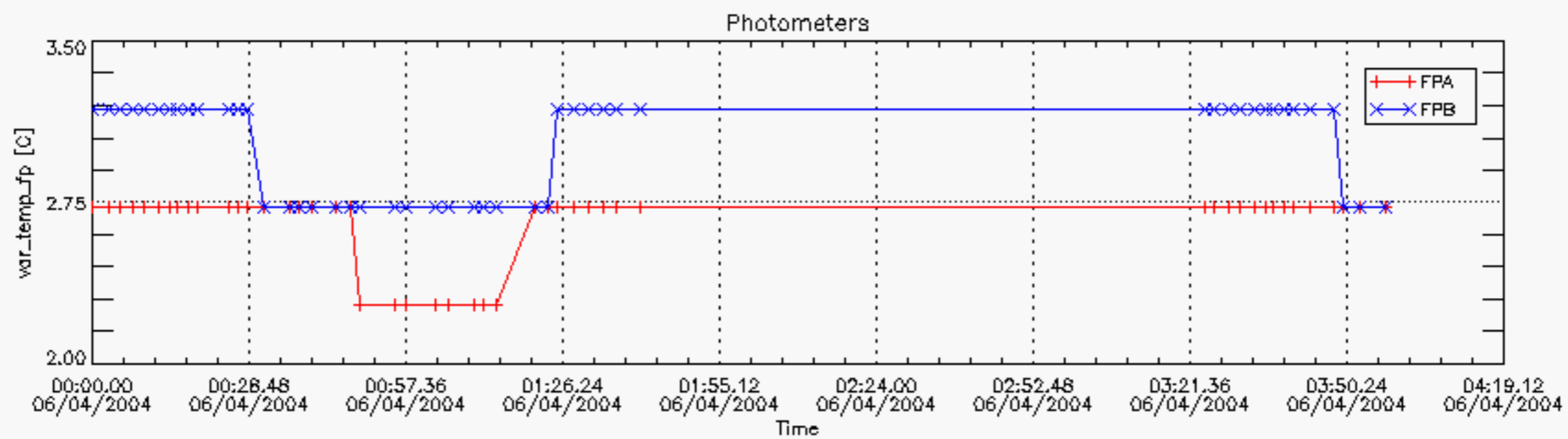
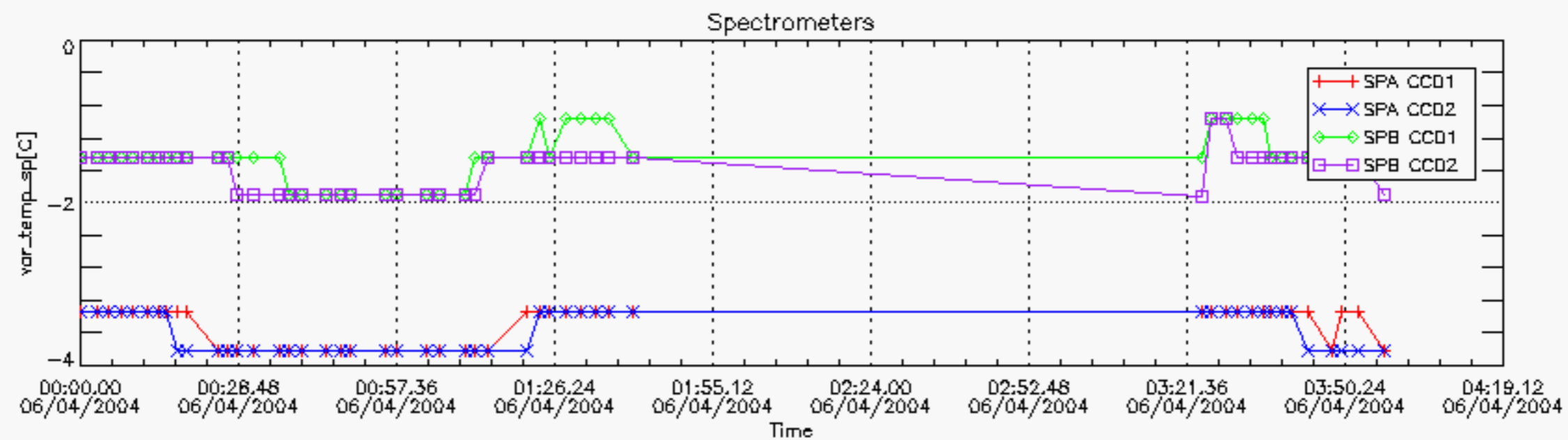
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

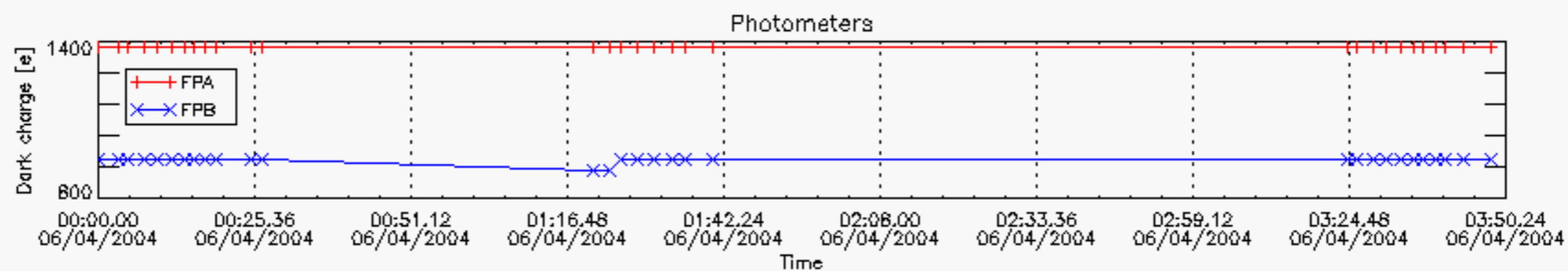
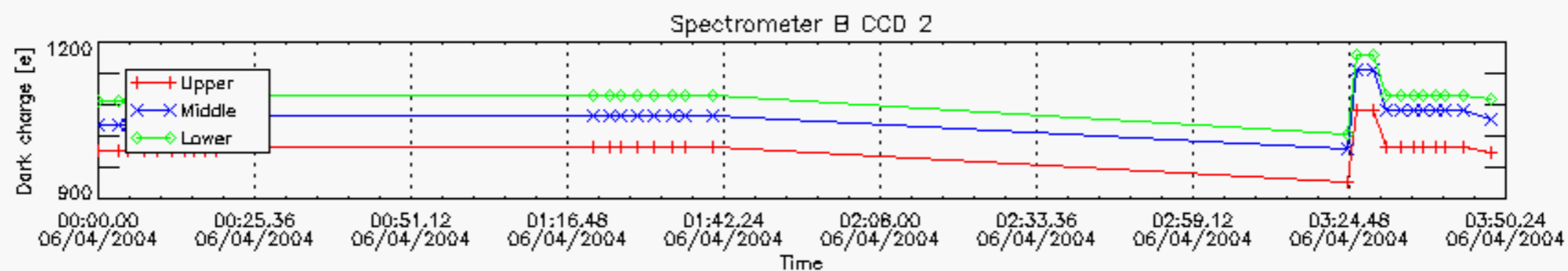
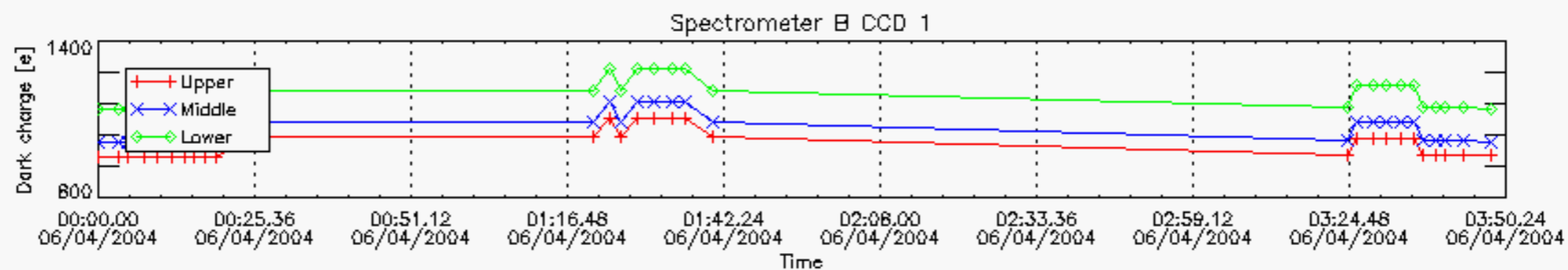
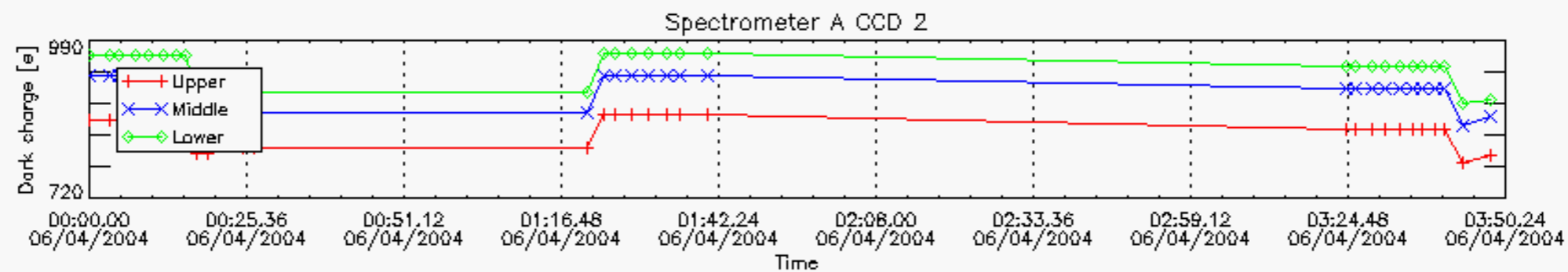
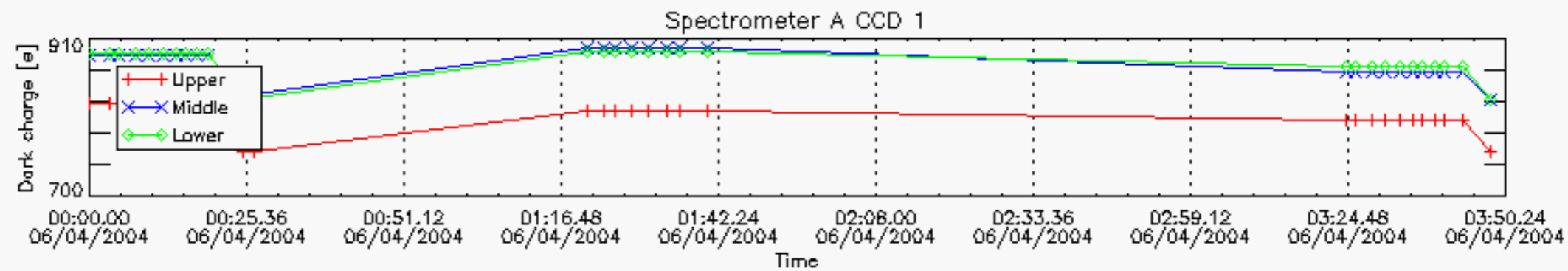
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.6	1447.4	1461.8	1448.0
St. deviation:	5.3970	7.9632	7.0039	9.2370
Maximum:	1551.0	1509.0	1511.0	1503.0
Minimum:	1432.0	1414.0	1439.0	1421.0
Number of data:	41250.	41250.	21200.	21200.

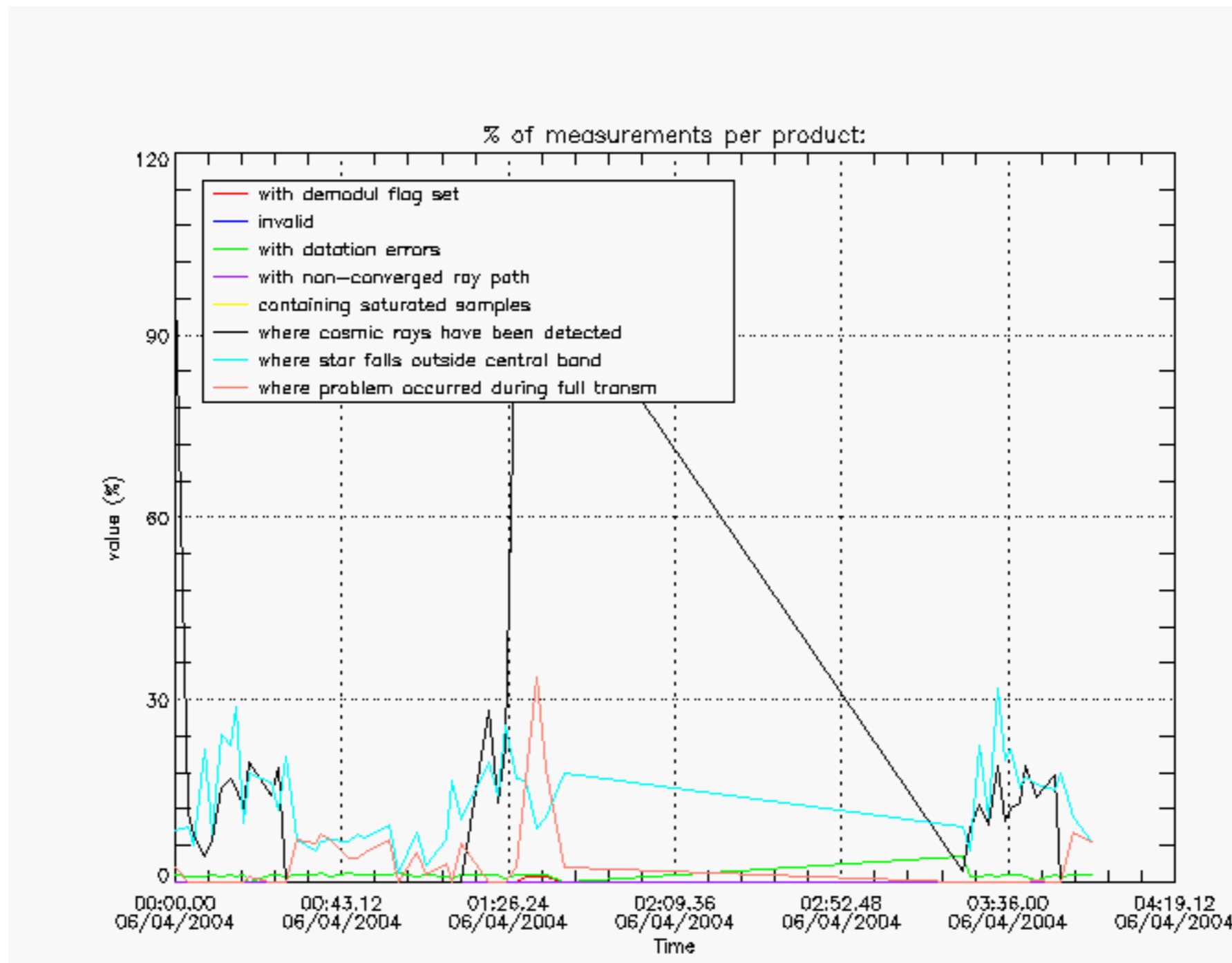




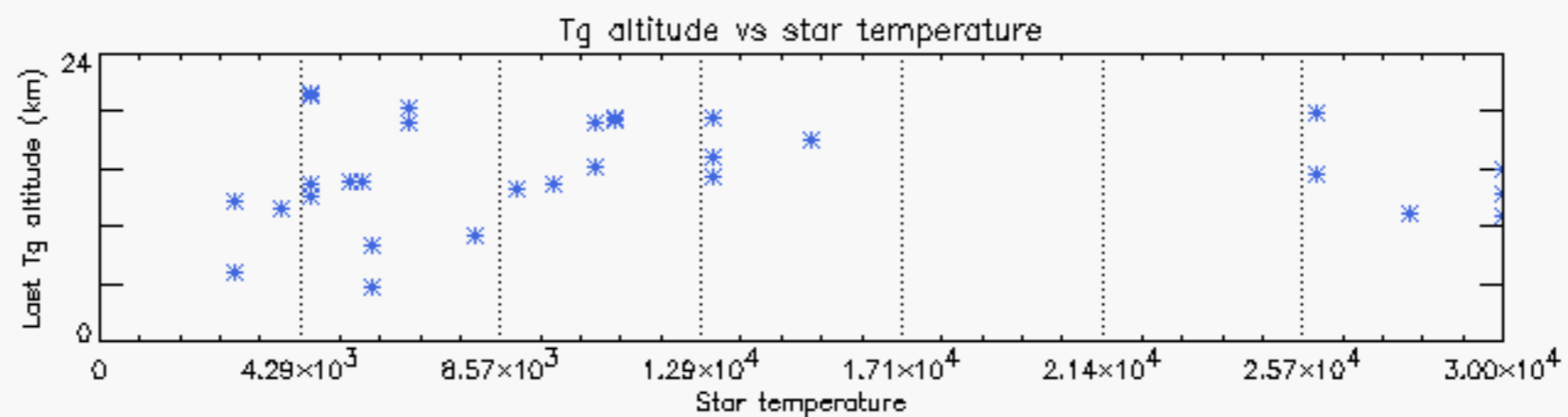
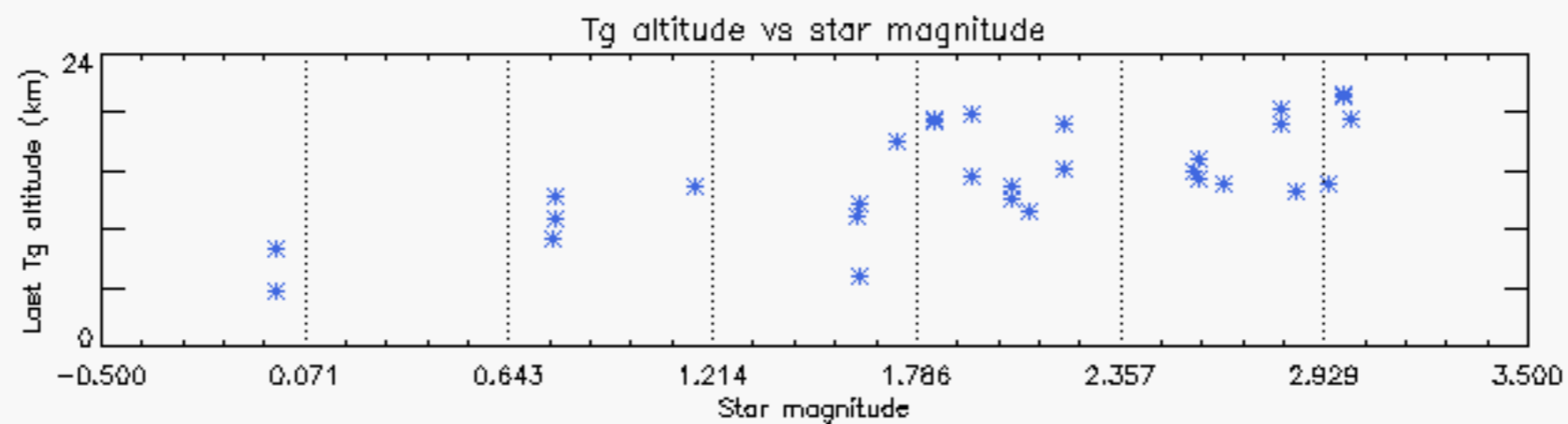
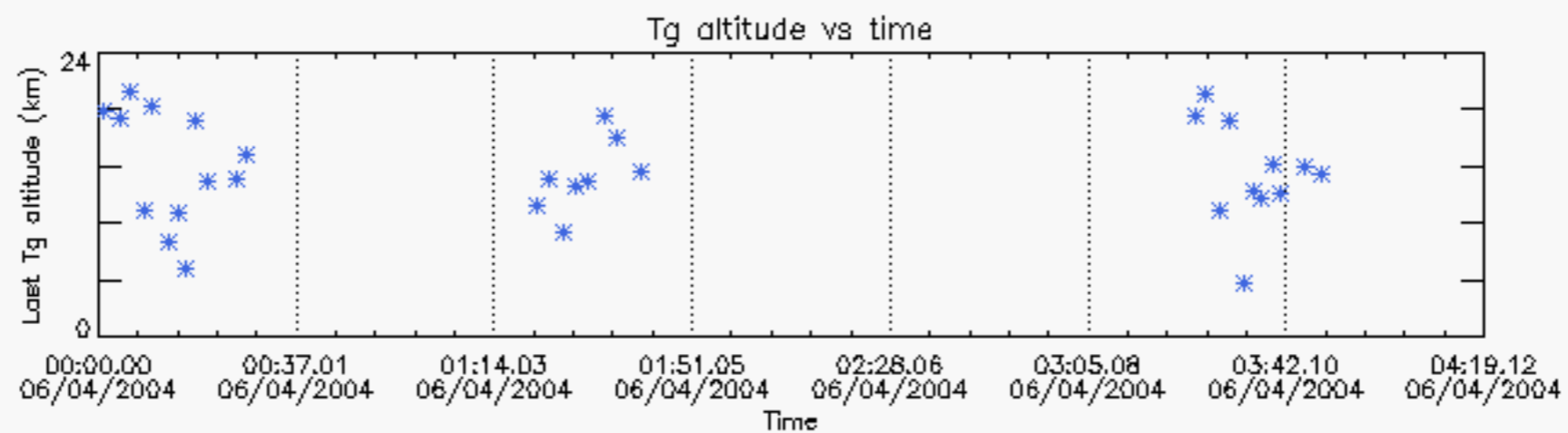






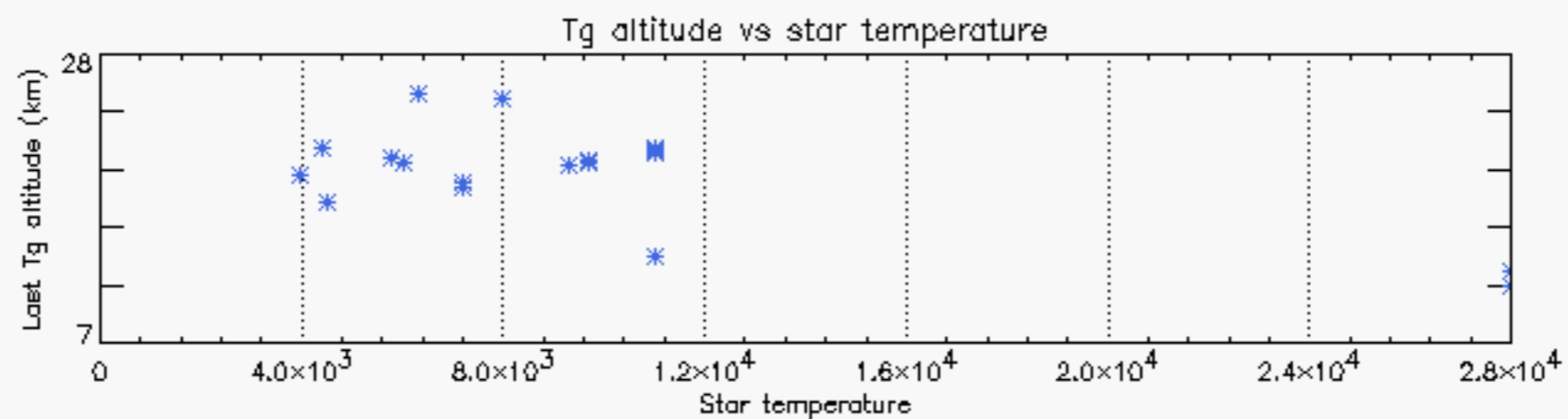
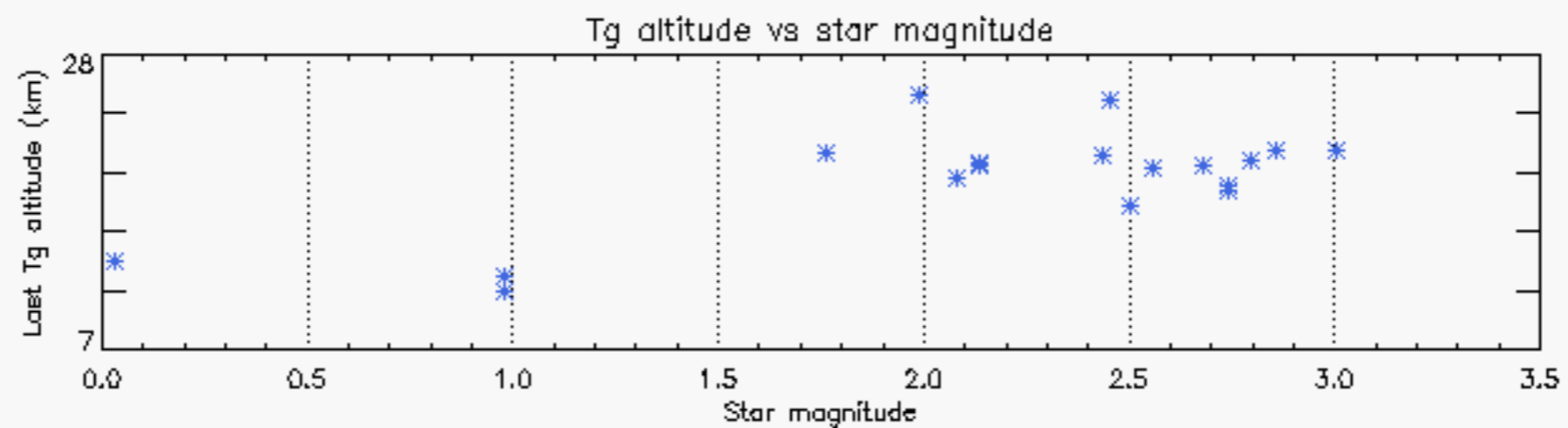
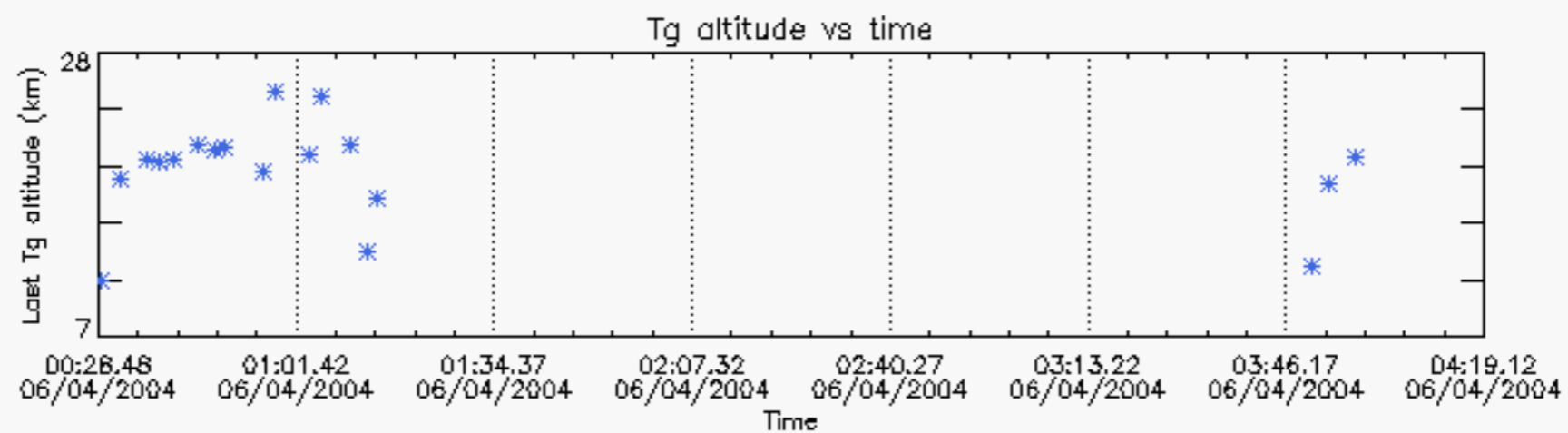


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/data4\_2/GOMOS/level0/GOM\_NL\_\_0PNPDE20040401\_012141\_000060872025\_00332\_10907\_0118.N1

1;	-4605.9;	01-APR-2004	01:21:41;	Dark	;	50.5;	169;	46Gam	Hya	;	2.99;	4700;	occ;	101;	0;	10907
2;	-4448.9;	01-APR-2004	01:24:18;	Dark	;	48.0;	163;	7Del	Crv	;	2.94;	11000;	occ;	96;	0;	10907
3;	-4349.5;	01-APR-2004	01:25:57;	Dark	;	63.5;	15;	67Alp	Vir	;	0.98;	28000;	occ;	127;	0;	10907
4;	-4154.5;	01-APR-2004	01:29:12;	Bright;		45.5;	121;	29Gam	Vir	;	2.74;	7200;	occ;	91;	0;	10907
5;	-3877.5;	01-APR-2004	01:33:49;	Bright;		40.5;	62;	94Bet	Leo	;	2.14;	9700;	occ;	81;	0;	10907
6;	-3781.2;	01-APR-2004	01:35:26;	Bright;		38.5;	96;	68Del	Leo	;	2.56;	9300;	occ;	77;	0;	10907
7;	-3678.3;	01-APR-2004	01:37:09;	Bright;		38.0;	166;	17Eps	Leo	;	2.98;	6000;	occ;	76;	0;	10907
8;	-3559.4;	01-APR-2004	01:39:08;	Bright;		67.5;	111;	8Eta	Boo	;	2.68;	6000;	occ;	135;	0;	10907
9;	-3371.6;	01-APR-2004	01:42:15;	Bright;		37.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	74;	0;	10907
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 32; 1016.7; 01-APR-2004 07:57:12; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;10911  
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29;	325.3;	08-APR-2004	02:23:43;	Dark	;	71.0;	167;	10Gam2	Sgr	;	2.98;	4500;	occ;	142;	0;	11008
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32; 1071.6; 19-APR-2004 06:51:58; Dark ; 44.5; 81; Eta Cen ; 2.36; 28000;occ; 89; 0;11168
33; 1208.4; 19-APR-2004 06:54:15; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;11168
34; 1337.1; 19-APR-2004 06:56:24; Dark ; 80.5; 80; 7Del Sco ; 2.32; 30000;occ; 161; 0;11168
35; 1507.0; 19-APR-2004 06:59:14; Dark ; 43.5; 106; 9Bet Crv ; 2.65; 5600;occ; 87; 0;11168
36; 1695.1; 19-APR-2004 07:02:22; Bright; 43.0; 15; 67Alp Vir ; 0.98; 28000;occ; 86; 0;11168
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2;	-3940.8;	19-APR-2004	07:09:02;	Bright;	39.5;	138;	47Eps Vir	;	2.83;	4700;occ;	79;	0;	11168	
3;	-3747.7;	19-APR-2004	07:12:15;	Bright;	36.5;	96;	68Del Leo	;	2.56;	9300;occ;	73;	0;	11168	
4;	-3460.8;	19-APR-2004	07:17:02;	Bright;	37.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	75;	0;	11168	
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9;	-2594.0;	19-APR-2004	07:31:29;	Bright;	34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	11168	
10;	-2476.4;	19-APR-2004	07:33:26;	Bright;	59.5;	130;	23Bet Dra	;	2.80;	5800;occ;	119;	0;	11168	
11;	-2364.4;	19-APR-2004	07:35:18;	Bright;	66.5;	69;	33Gam Dra	;	2.23;	3800;occ;	133;	0;	11168	
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23;	-225.9;	19-APR-2004	08:10:57;	Dark	;	41.0;	31;	Alp Gru	;	1.73;	15200;occ;	82;	0;	11168
24;	-40.7;	19-APR-2004	08:14:02;	Dark	;	39.5;	148;	Alp Tuc	;	2.88;	4100;occ;	79;	0;	11168
25;	81.0;	19-APR-2004	08:16:04;	Dark	;	42.5;	45;	Alp Pav	;	1.94;	26000;occ;	85;	0;	11169
26;	310.4;	19-APR-2004	08:19:53;	Dark	;	79.5;	57;	34Sig Sgr	;	2.07;	26000;occ;	159;	0;	11169
27;	452.7;	19-APR-2004	08:22:15;	Dark	;	71.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	142;	0;	11169
28;	588.9;	19-APR-2004	08:24:32;	Dark	;	61.0;	40;	The Sco	;	1.86;	7100;occ;	122;	0;	11169
29;	781.6;	19-APR-2004	08:27:44;	Dark	;	43.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	87;	0;	11169
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4;	-3747.4;	19-APR-2004	08:52:51;	Bright;	38.5;	96;	68Del Leo	;	2.56;	9300;occ;	77;	0;	11169	
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