

# GOMOS Daily Report 11-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	12APR2004 06:04:47
Data source version	GOMOS/4.02
Start time of products	11-APR-2004 (11APR2004 00:00:00)
Stop time of products	12-APR-2004 (12APR2004 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

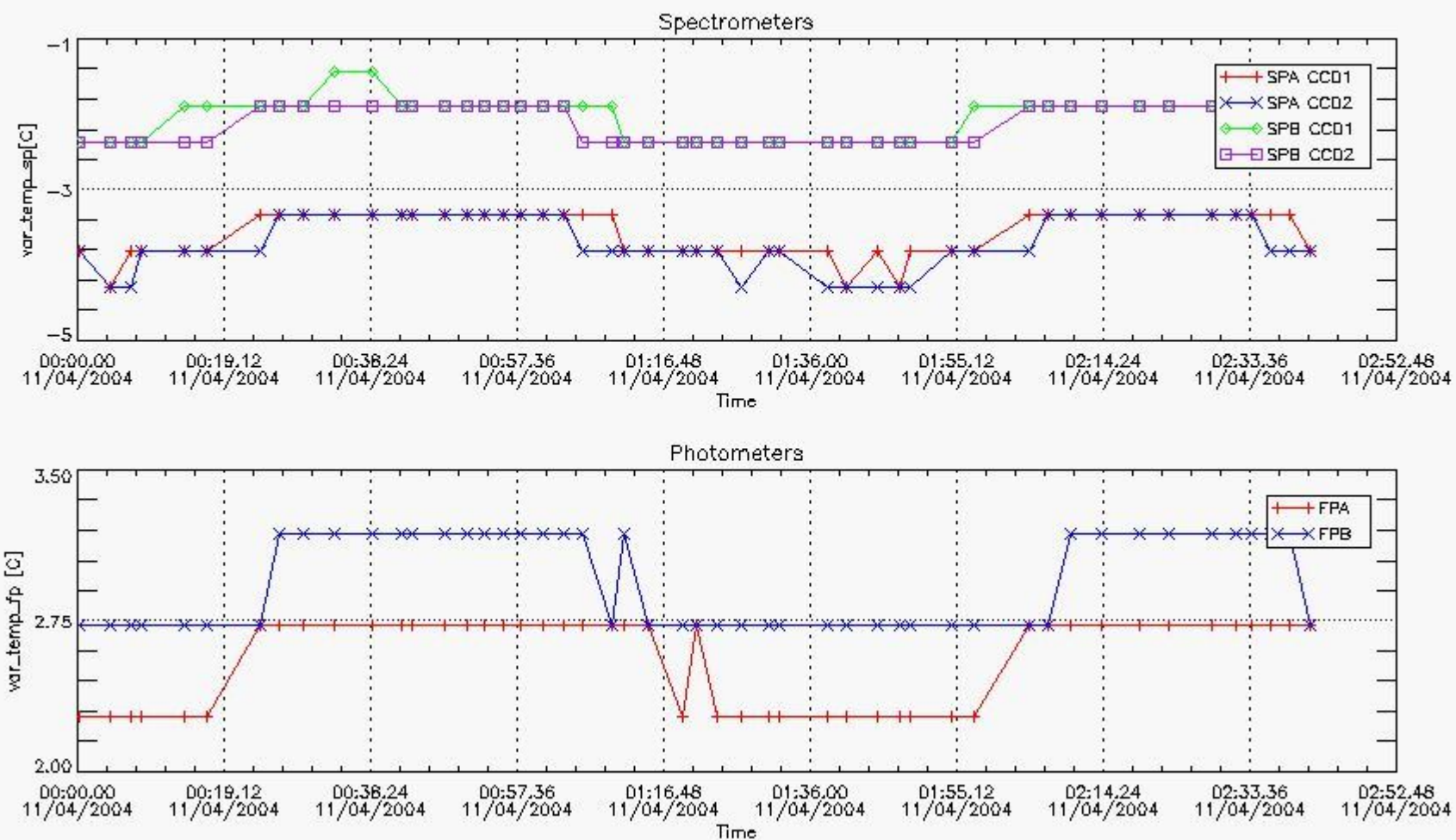
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040411_000011_000000342025_00474_11049_0012.N1	11-APR-2004 00:00:11	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	11049	No
GOM_TRA_1PNPDE20040411_000415_000000602025_00474_11049_0013.N1	11-APR-2004 00:04:15	Bright	59.500	130	23Bet Dra	2.7990	5800.0	119	11049	No
GOM_TRA_1PNPDE20040411_000705_000000382025_00474_11049_0014.N1	11-APR-2004 00:07:05	Bright	38.000	110	37Del Cas	2.6780	8900.0	76	11049	No
GOM_TRA_1PNPDE20040411_000824_000000382025_00474_11049_0015.N1	11-APR-2004 00:08:24	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	11049	No
GOM_TRA_1PNPDE20040411_001359_000001022025_00474_11049_0016.N1	11-APR-2004 00:13:59	Bright	101.50	5	3Alp Lyr	0.033000	11000.	203	11049	No
GOM_TRA_1PNPDE20040411_001658_000000492025_00474_11049_0017.N1	11-APR-2004 00:16:58	Bright	49.000	92	53Eps Cyg	2.5000	4500.0	98	11049	No
GOM_TRA_1PNPDE20040411_002403_000000482025_00474_11049_0018.N1	11-APR-2004 00:24:03	Dark	47.500	61	8Eps Peg	2.1000	3900.0	95	11049	No
GOM_TRA_1PNPDE20040411_002632_000000452025_00474_11049_0019.N1	11-APR-2004 00:26:32	Dark	44.500	162	34Alp Aqr	2.9440	5350.0	89	11049	No
GOM_TRA_1PNPDE20040411_002930_000000982025_00474_11049_0020.N1	11-APR-2004 00:29:30	Dark	98.000	11	53Alp Aql	0.76500	8000.0	196	11049	No
GOM_TRA_1PNPDE20040411_003340_000000462025_00474_11049_0021.N1	11-APR-2004 00:33:40	Dark	46.000	18	24Alp PsA	1.1660	9700.0	92	11049	No
GOM_TRA_1PNPDE20040411_003831_000000512025_00474_11049_0022.N1	11-APR-2004 00:38:31	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	11049	No
GOM_TRA_1PNPDE20040411_004221_000000462025_00474_11049_0023.N1	11-APR-2004 00:42:21	Dark	45.500	148	Alp Tuc	2.8780	4100.0	91	11049	No
GOM_TRA_1PNPDE20040411_004344_000000432025_00475_11050_0024.N1	11-APR-2004 00:43:44	Dark	43.000	45	Alp Pav	1.9400	26000.	86	11050	No
GOM_TRA_1PNPDE20040411_004801_000000632025_00475_11050_0025.N1	11-APR-2004 00:48:01	Dark	63.000	38	20Eps Sgr	1.8360	11000.	126	11050	No
GOM_TRA_1PNPDE20040411_005104_000000652025_00475_11050_0026.N1	11-APR-2004 00:51:04	Dark	65.000	40	The Sco	1.8590	7100.0	130	11050	No
GOM_TRA_1PNPDE20040411_005314_000000432025_00475_11050_0027.N1	11-APR-2004 00:53:14	Dark	42.500	134	Bet TrA	2.8100	6600.0	85	11050	No
GOM_TRA_1PNPDE20040411_005543_000000492025_00475_11050_0028.N1	11-APR-2004 00:55:43	Dark	48.500	4	Alp1Cen	-0.010000	5800.0	97	11050	No
GOM_TRA_1PNPDE20040411_005805_000000392025_00475_11050_0029.N1	11-APR-2004 00:58:05	Dark	39.000	20	Bet Cru	1.2530	30000.	78	11050	No
GOM_TRA_1PNPDE20040411_010053_000001082025_00475_11050_0030.N1	11-APR-2004 01:00:53	Dark	108.00	16	21Alp Sco	1.0200	3000.0	216	11050	No
GOM_TRA_1PNPDE20040411_010342_000000452025_00475_11050_0031.N1	11-APR-2004 01:03:42	Dark	45.000	123	lot Cen	2.7500	10200.	90	11050	No
GOM_TRA_1PNPDE20040411_010613_000001102025_00475_11050_0000.N1	11-APR-2004 01:06:13	Dark	109.50	97	8Bet1Sco	2.5610	30000.	219	11050	No
GOM_TRA_1PNPDE20040411_011004_000000422025_00475_11050_0001.N1	11-APR-2004 01:10:04	Dark	41.500	100	4Gam Crv	2.5800	13100.	83	11050	No
GOM_TRA_1PNPDE20040411_011132_000000522025_00475_11050_0002.N1	11-APR-2004 01:11:32	Bright	51.500	15	67Alp Vir	0.97600	28000.	103	11050	No
GOM_TRA_1PNPDE20040411_011439_000000412025_00475_11050_0003.N1	11-APR-2004 01:14:39	Bright	41.000	121	29Gam Vir	2.7400	7200.0	82	11050	No
GOM_TRA_1PNPDE20040411_011920_000000392025_00475_11050_0004.N1	11-APR-2004 01:19:20	Bright	39.000	62	94Bet Leo	2.1360	9700.0	78	11050	No
GOM_TRA_1PNPDE20040411_012109_000000402025_00475_11050_0005.N1	11-APR-2004 01:21:09	Bright	40.000	96	68Del Leo	2.5600	9300.0	80	11050	No
GOM_TRA_1PNPDE20040411_012347_000000622025_00475_11050_0006.N1	11-APR-2004 01:23:47	Bright	61.500	3	16Alp Boo	-0.050000	4250.0	123	11050	No
GOM_TRA_1PNPDE20040411_012653_000000402025_00475_11050_0007.N1	11-APR-2004 01:26:53	Bright	40.000	152	12Alp2CVn	2.8900	11000.	80	11050	No
GOM_TRA_1PNPDE20040411_013029_000000362025_00475_11050_0008.N1	11-APR-2004 01:30:29	Bright	36.000	87	64Gam UMa	2.4330	11000.	72	11050	No
GOM_TRA_1PNPDE20040411_013149_000000422025_00475_11050_0009.N1	11-APR-2004 01:31:49	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	11050	No
GOM_TRA_1PNPDE20040411_013817_000000392025_00475_11050_0010.N1	11-APR-2004 01:38:17	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	11050	No
GOM_TRA_1PNPDE20040411_014047_000000362025_00475_11050_0011.N1	11-APR-2004 01:40:47	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	11050	No
GOM_TRA_1PNPDE20040411_014450_000000612025_00475_11050_0012.N1	11-APR-2004 01:44:50	Bright	60.500	130	23Bet Dra	2.7990	5800.0	121	11050	No
GOM_TRA_1PNPDE20040411_014739_000000382025_00475_11050_0013.N1	11-APR-2004 01:47:39	Bright	37.500	110	37Del Cas	2.6780	8900.0	75	11050	No
GOM_TRA_1PNPDE20040411_014900_000000522025_00475_11050_0014.N1	11-APR-2004 01:49:00	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	11050	No
GOM_TRA_1PNPDE20040411_015434_000001122025_00475_11050_0015.N1	11-APR-2004 01:54:34	Bright	111.50	5	3Alp Lyr	0.033000	11000.	223	11050	No
GOM_TRA_1PNPDE20040411_015734_000000512025_00475_11050_0016.N1	11-APR-2004 01:57:34	Bright	51.000	92	53Eps Cyg	2.5000	4500.0	102	11050	No
GOM_TRA_1PNPDE20040411_020439_000000532025_00475_11050_0017.N1	11-APR-2004 02:04:39	Dark	52.500	61	8Eps Peg	2.1000	3900.0	105	11050	No
GOM_TRA_1PNPDE20040411_020708_000000442025_00475_11050_0018.N1	11-APR-2004 02:07:08	Dark	43.500	162	34Alp Aqr	2.9440	5350.0	87	11050	No
GOM_TRA_1PNPDE20040411_021007_000000922025_00475_11050_0019.N1	11-APR-2004 02:10:07	Dark	91.500	11	53Alp Aql	0.76500	8000.0	183	11050	No
GOM_TRA_1PNPDE20040411_021416_000000422025_00475_11050_0020.N1	11-APR-2004 02:14:16	Dark	41.500	18	24Alp PsA	1.1660	9700.0	83	11050	No
GOM_TRA_1PNPDE20040411_021907_000000442025_00475_11050_0021.N1	11-APR-2004 02:19:07	Dark	43.500	63	Bet Gru	2.1500	2800.0	87	11050	No
GOM_TRA_1PNPDE20040411_022257_000000392025_00475_11050_0022.N1	11-APR-2004 02:22:57	Dark	38.500	148	Alp Tuc	2.8780	4100.0	77	11050	No
GOM_TRA_1PNPDE20040411_022838_000000682025_00476_11051_0023.N1	11-APR-2004 02:28:38	Dark	67.500	38	20Eps Sgr	1.8360	11000.	135	11051	No
GOM_TRA_1PNPDE20040411_023143_000000612025_00476_11051_0024.N1	11-APR-2004 02:31:43	Dark	60.500	40	The Sco	1.8590	7100.0	121	11051	No
GOM_TRA_1PNPDE20040411_023351_000000432025_00476_11051_0025.N1	11-APR-2004 02:33:51	Dark	42.500	134	Bet TrA	2.8100	6600.0	85	11051	No
GOM_TRA_1PNPDE20040411_023619_000000542025_00476_11051_0026.N1	11-APR-2004 02:36:19	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	11051	No
GOM_TRA_1PNPDE20040411_023842_000000442025_00476_11051_0027.N1	11-APR-2004 02:38:42	Dark	43.500	20	Bet Cru	1.2530	30000.	87	11051	No
GOM_TRA_1PNPDE20040411_024130_000000982025_00476_11051_0028.N1	11-APR-2004 02:41:30	Dark	98.000	16	21Alp Sco	1.0200	3000.0	196	11051	No

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



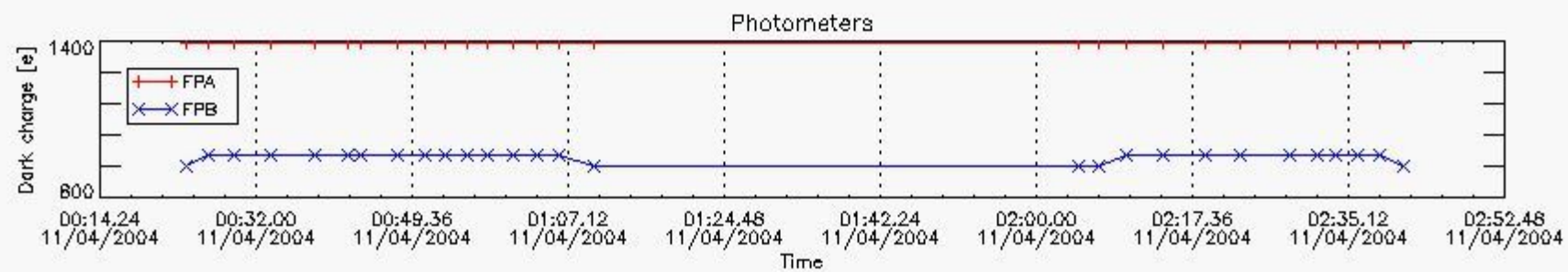
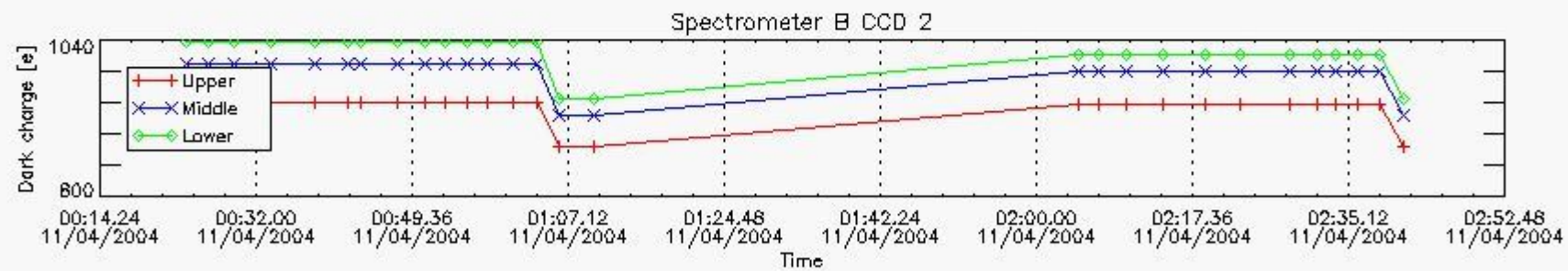
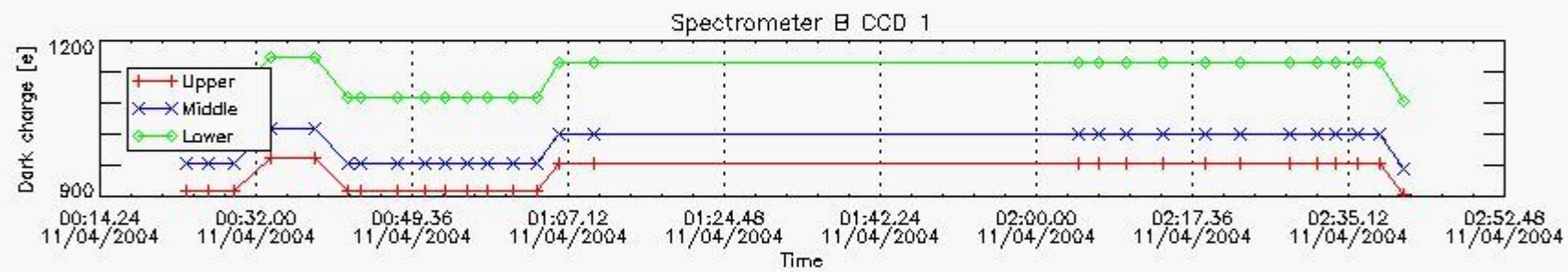
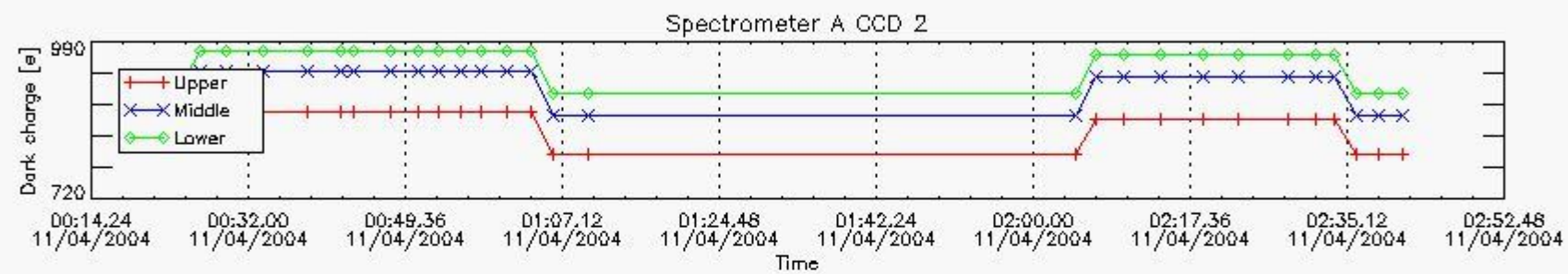
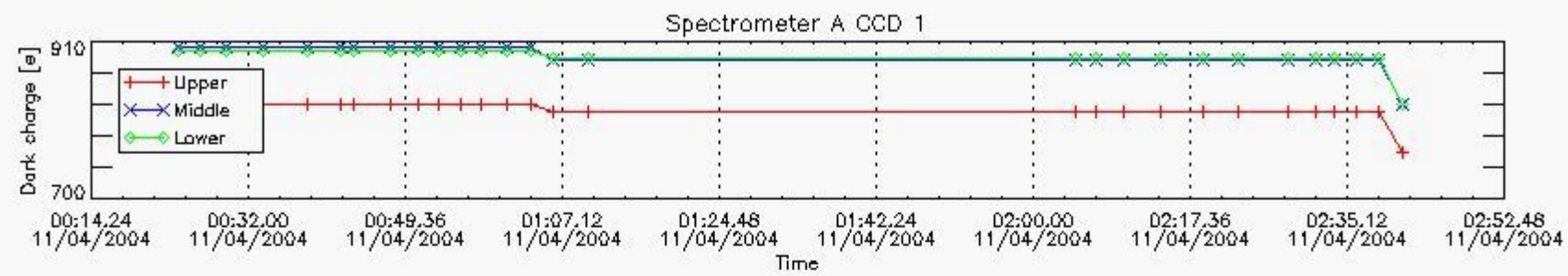
#### 4. Overview of dark signal processing per product

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

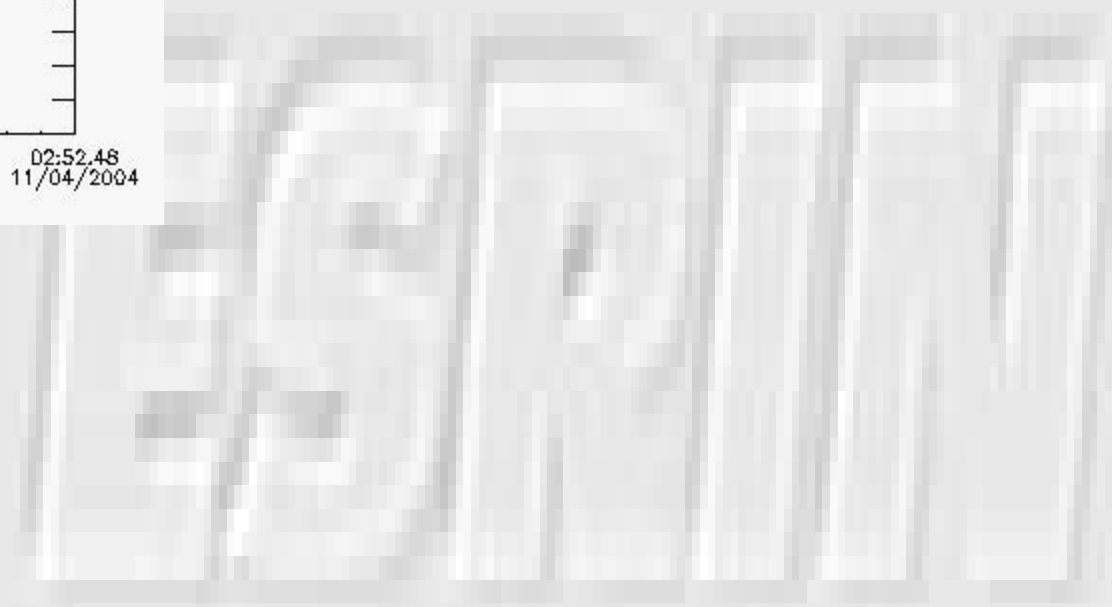
##### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



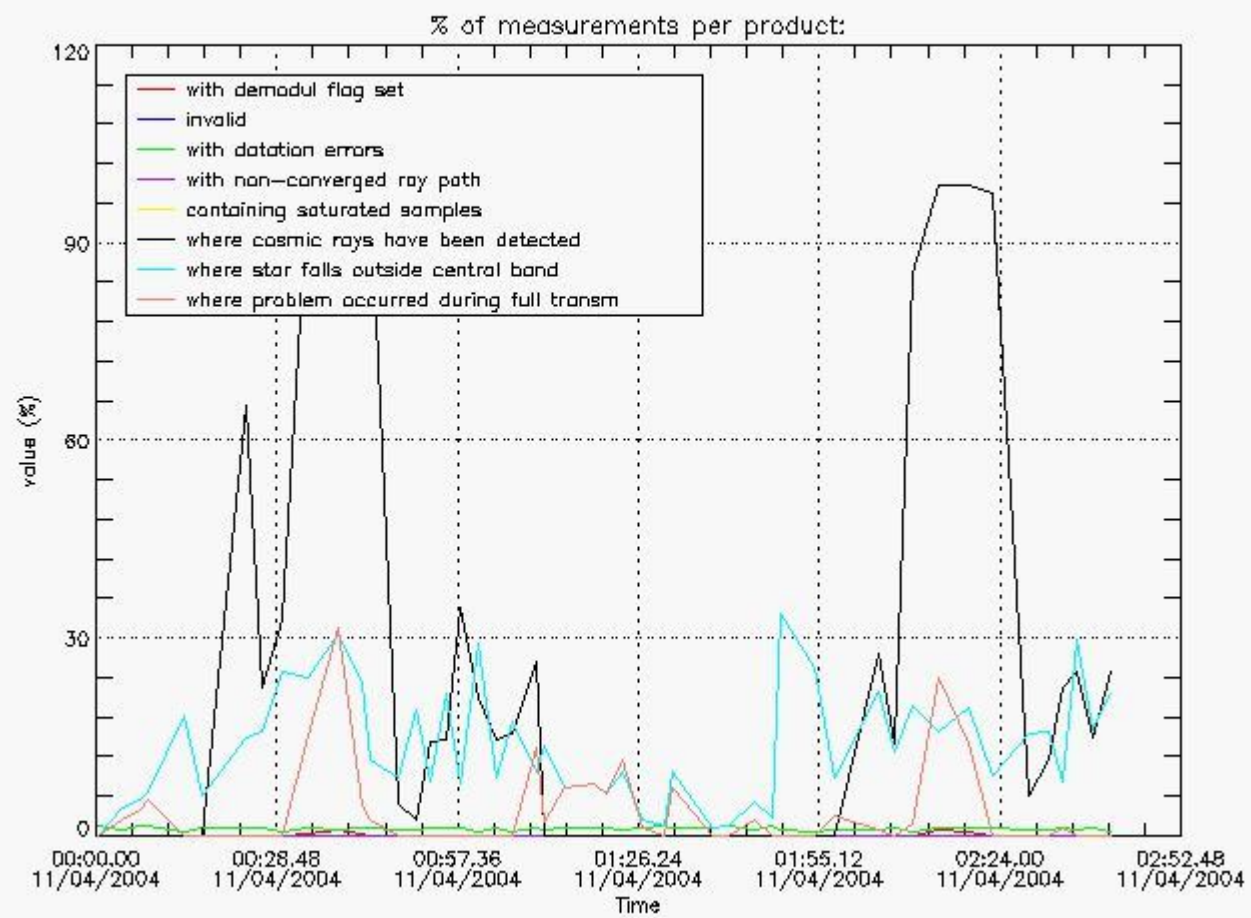
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	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



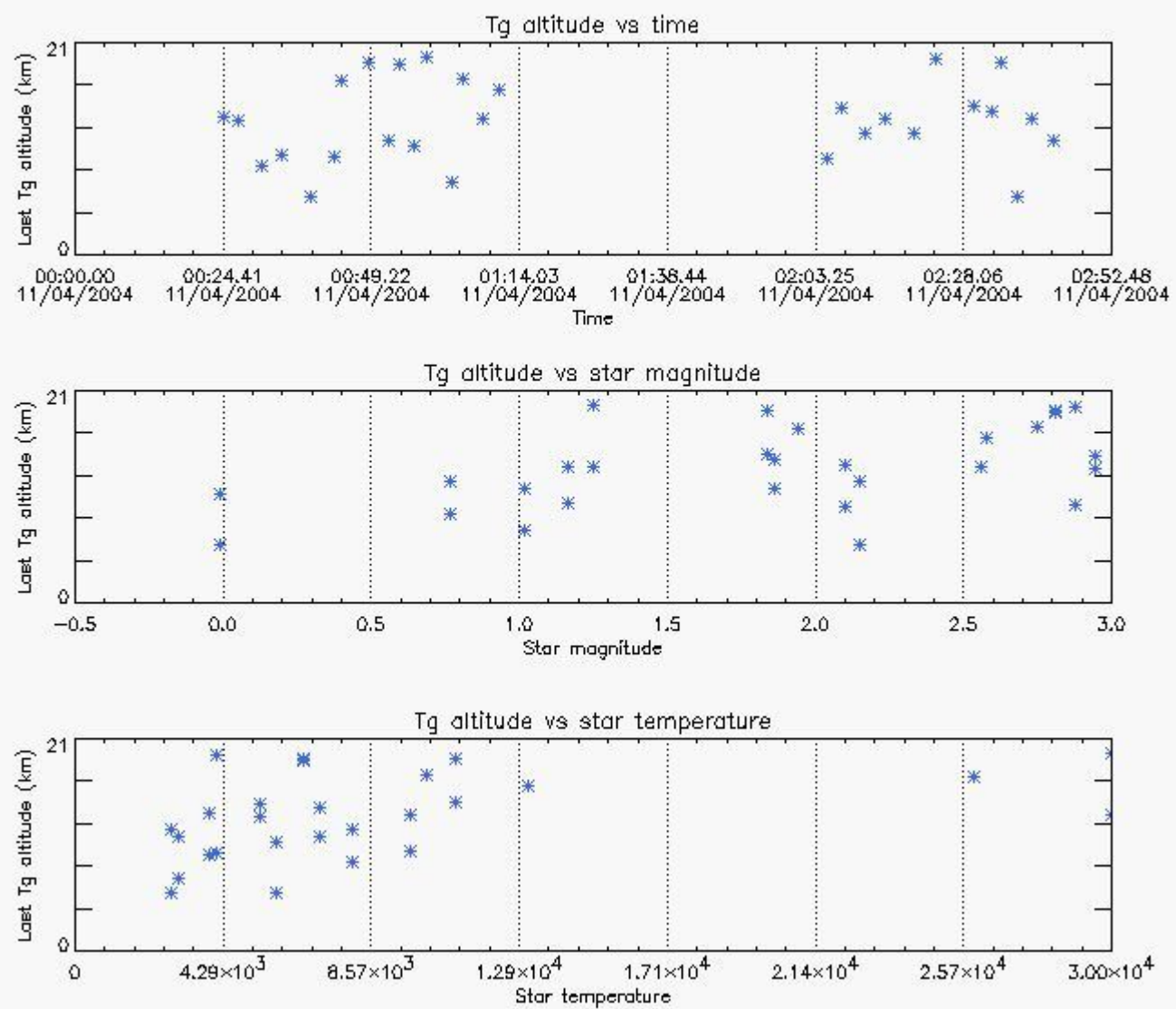
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.245	20.032
St. deviation:	4.0659	6.0688
Maximum:	19.603	30.568
Minimum:	5.7449	5.0265
Number of data:	28.000	21.000

### 6.2 Plot for DARK limb products

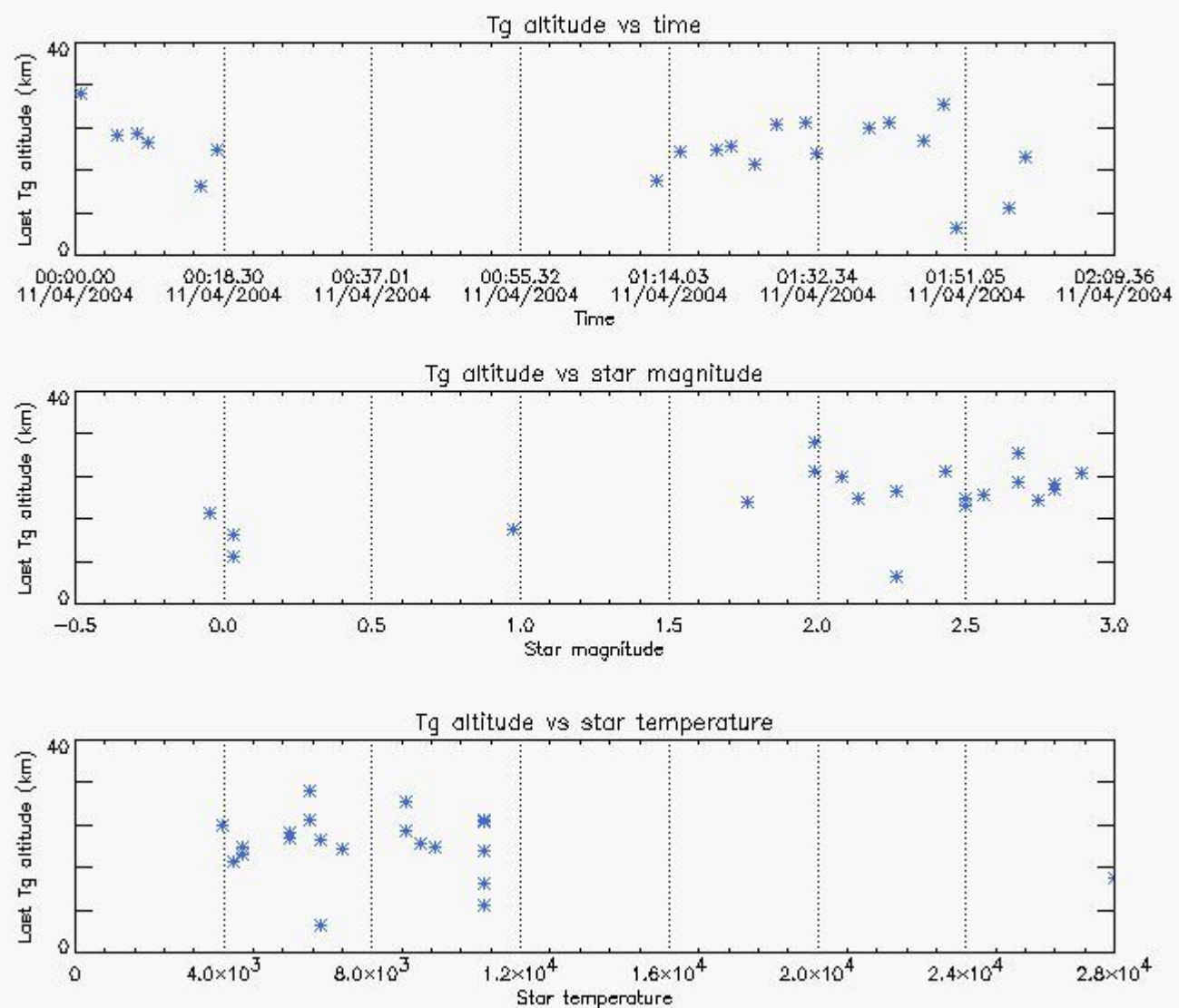
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



### Tangent altitude at which the star is lost



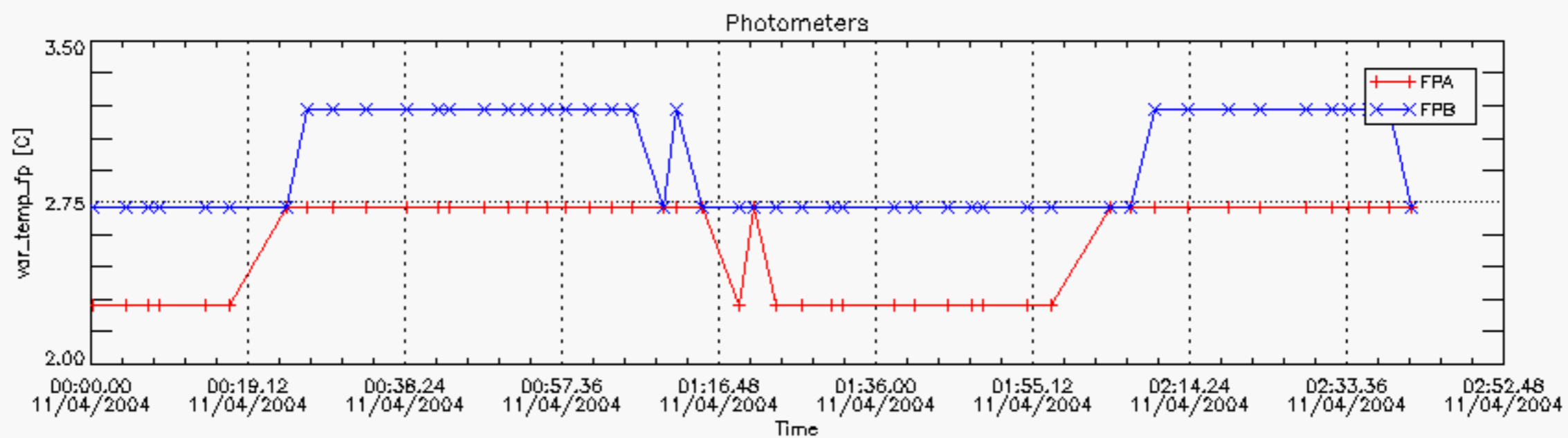
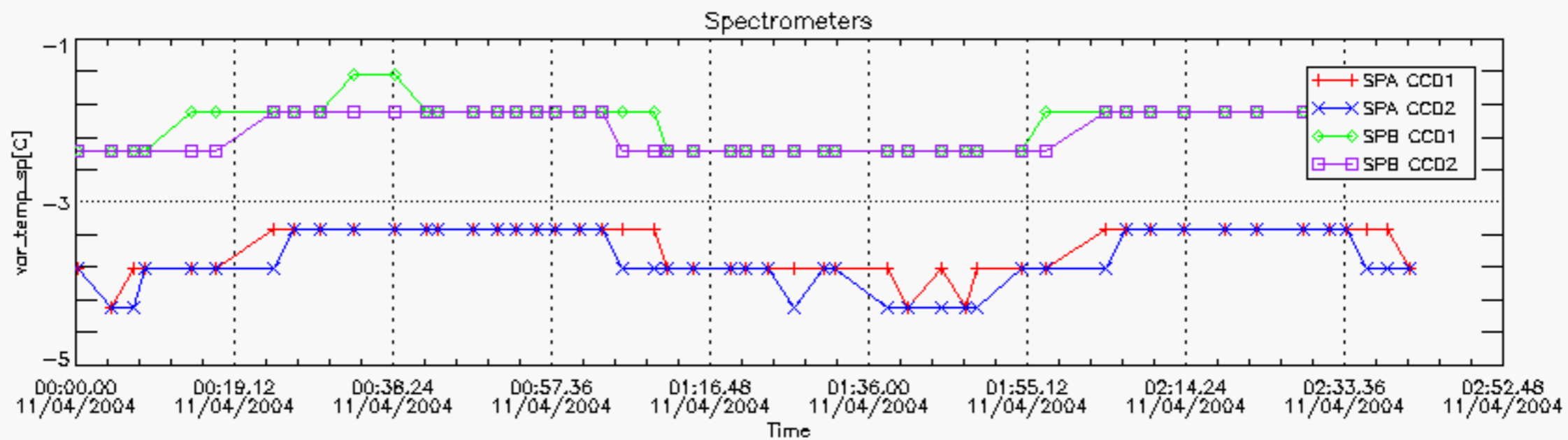
### 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

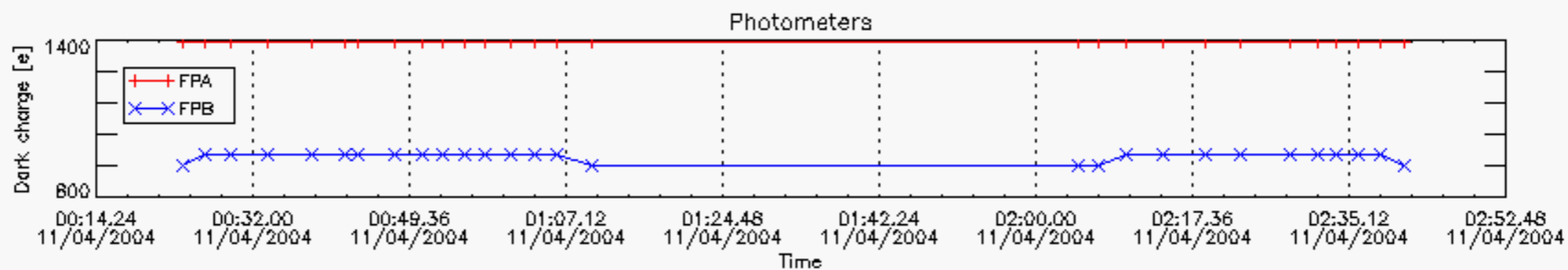
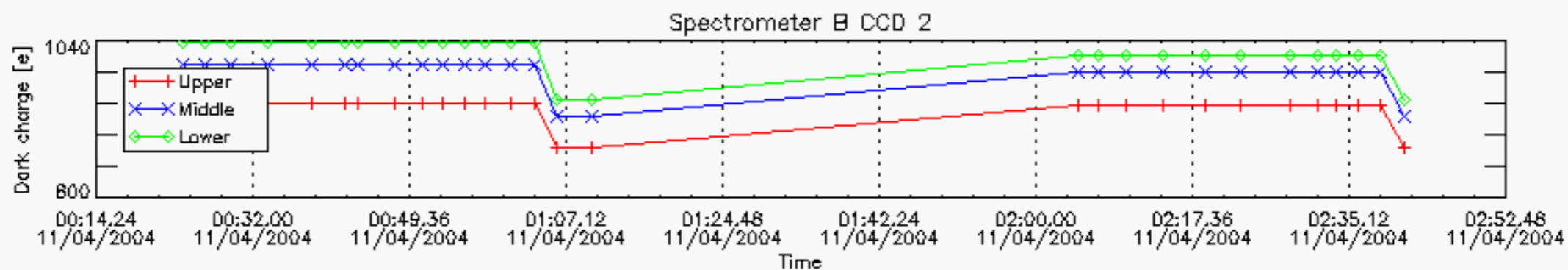
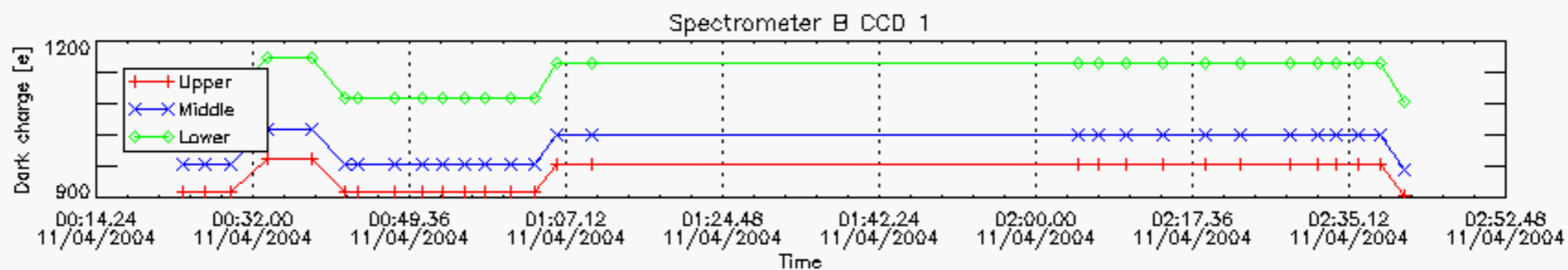
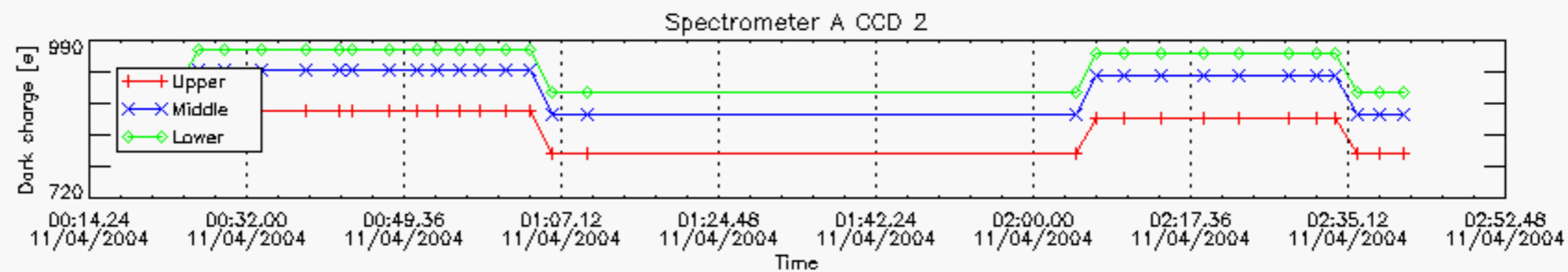
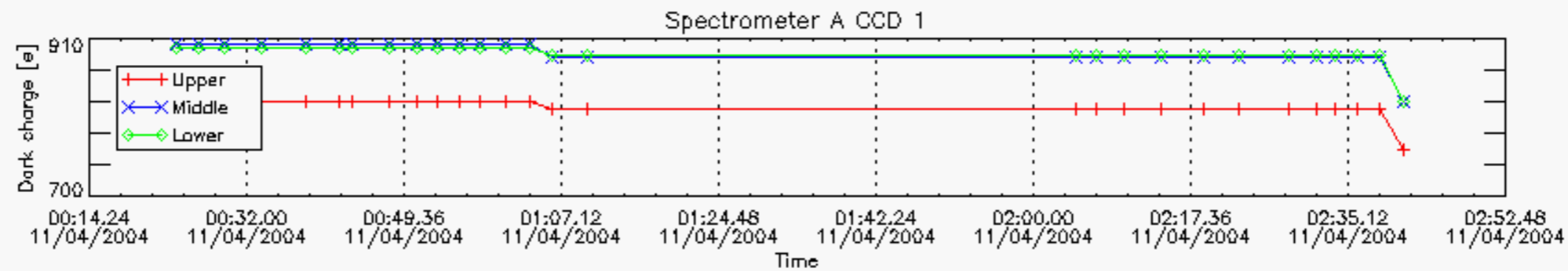
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

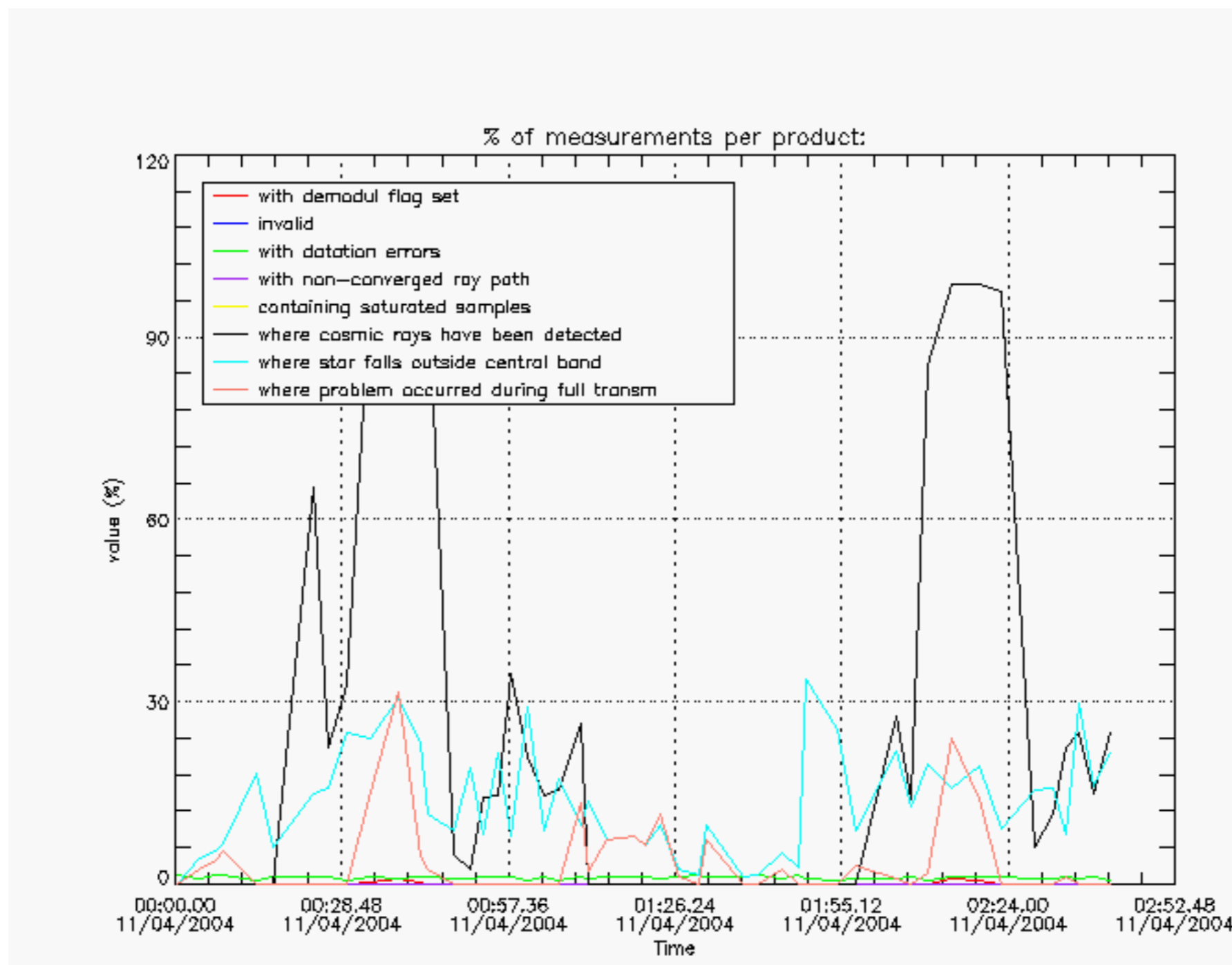
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1447.4	1461.5	1448.4
St. deviation:	4.4034	6.5959	6.6996	8.7370
Maximum:	1500.0	1488.0	1510.0	1499.0
Minimum:	1450.0	1449.0	1445.0	1410.0
Number of data:	38600.	38600.	26900.	26900.



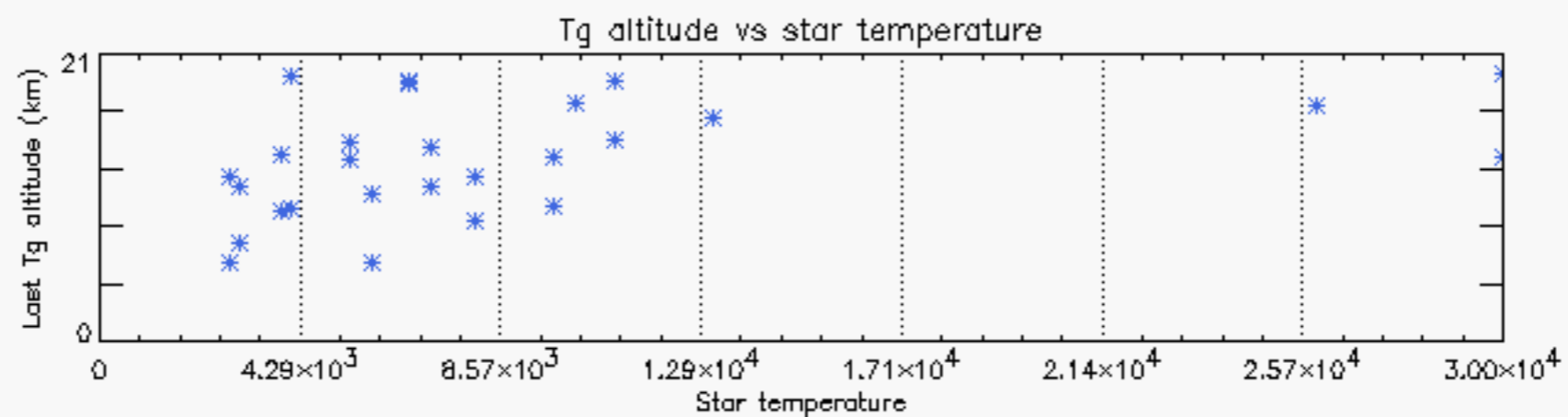
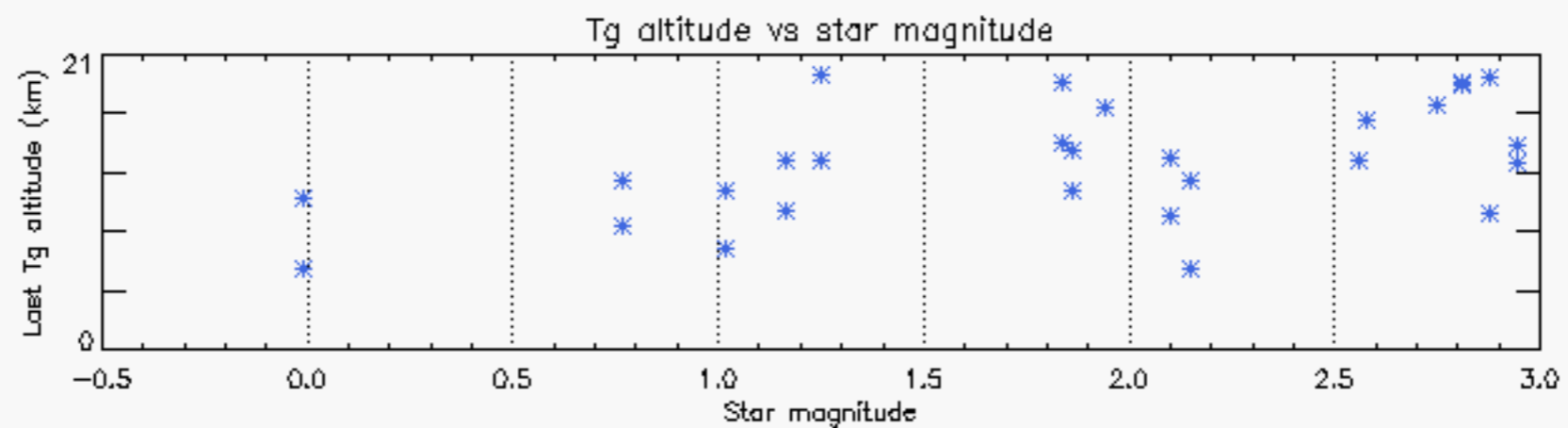
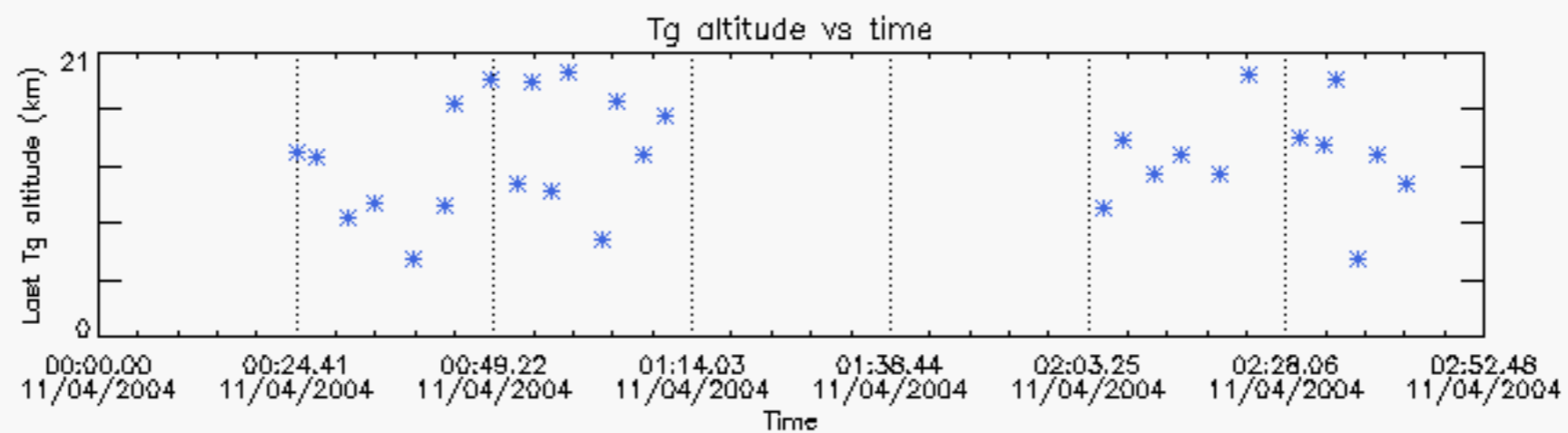




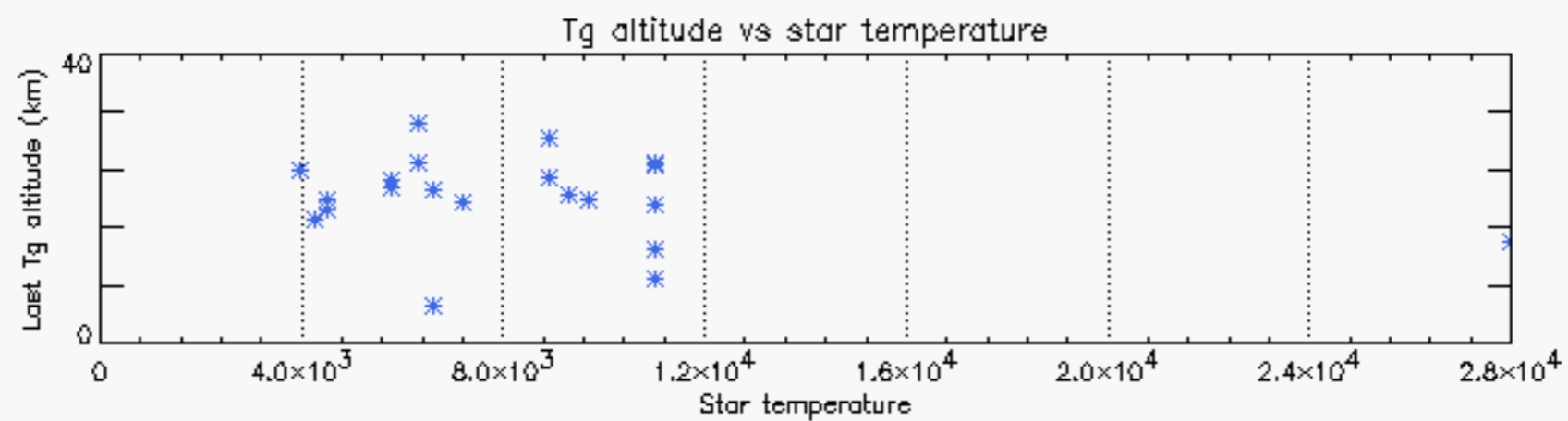
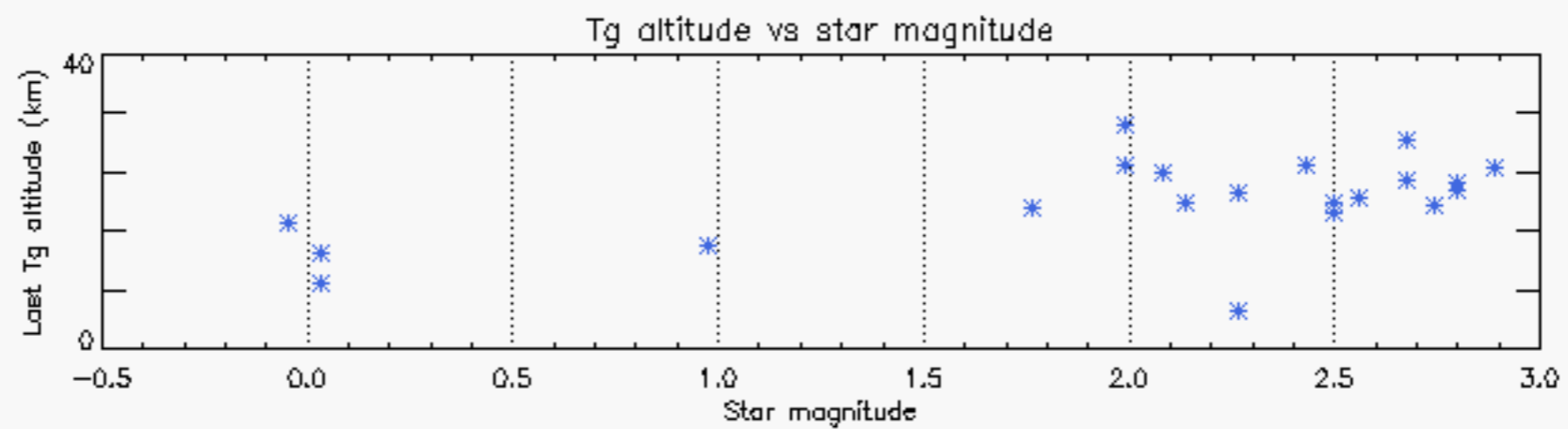
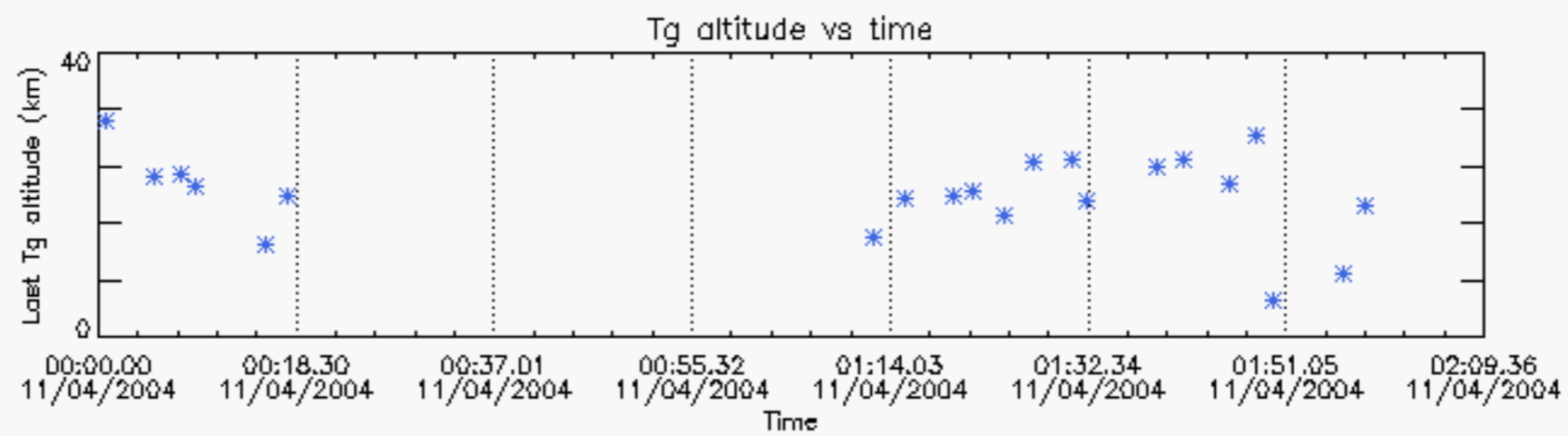




Tangent altitude at which the star is lost



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
10;	-3190.2;	01-APR-2004	01:45:17;	Bright;	37.5;	87;	64Gam UMa ;	2.43;	11000;occ;	75;	0;	10907
11;	-3080.2;	01-APR-2004	01:47:07;	Bright;	36.0;	36;	50Alp UMa ;	1.80;	6300;occ;	72;	0;	10907
12;	-2704.1;	01-APR-2004	01:53:23;	Bright;	45.0;	60;	7Bet UMi ;	2.08;	3950;occ;	90;	0;	10907
13;	-2598.5;	01-APR-2004	01:55:08;	Bright;	36.5;	49;	1Alp UMi ;	1.99;	6300;occ;	73;	0;	10907
14;	-2198.5;	01-APR-2004	02:01:48;	Bright;	36.5;	76;	27Gam Cas ;	2.30;	30000;occ;	73;	0;	10907
15;	-2119.4;	01-APR-2004	02:03:08;	Bright;	39.5;	68;	18Alp Cas ;	2.22;	4500;occ;	79;	0;	10907
16;	-1838.4;	01-APR-2004	02:07:49;	Bright;	46.5;	144;	18Del Cyg ;	2.86;	11000;occ;	93;	0;	10907
17;	-1724.3;	01-APR-2004	02:09:43;	Bright;	45.0;	66;	37Gam Cyg ;	2.21;	5900;occ;	90;	0;	10907
18;	-1602.9;	01-APR-2004	02:11:44;	Bright;	43.5;	92;	53Eps Cyg ;	2.50;	4500;occ;	87;	0;	10907
19;	-1211.6;	01-APR-2004	02:18:15;	Dark ;	49.5;	61;	8Eps Peg ;	2.10;	3900;occ;	99;	0;	10907
20;	-992.6;	01-APR-2004	02:21:54;	Dark ;	72.0;	11;	53Alp Aql ;	0.76;	8000;occ;	144;	0;	10907
21;	-779.1;	01-APR-2004	02:25:28;	Dark ;	43.0;	142;	49Del Cap ;	2.85;	8900;occ;	86;	0;	10907
22;	-443.0;	01-APR-2004	02:31:04;	Dark ;	38.5;	172;	Gam Gru ;	3.00;	13100;occ;	77;	0;	10907
23;	-308.6;	01-APR-2004	02:33:18;	Dark ;	59.5;	0;		0.00;	0;occ;	119;	0;	10907
24;	-46.9;	01-APR-2004	02:37:40;	Dark ;	41.5;	45;	Alp Pav ;	1.94;	26000;occ;	83;	0;	10907
25;	69.2;	01-APR-2004	02:39:36;	Dark ;	63.5;	116;	19Del Sgr ;	2.70;	4100;occ;	127;	0;	10908
26;	300.8;	01-APR-2004	02:43:28;	Dark ;	58.0;	40;	The Sco ;	1.86;	7100;occ;	116;	0;	10908
27;	404.0;	01-APR-2004	02:45:11;	Dark ;	47.0;	43;	Alp TrA ;	1.91;	4250;occ;	94;	0;	10908
28;	518.1;	01-APR-2004	02:47:05;	Dark ;	41.5;	134;	Bet TrA ;	2.81;	6600;occ;	83;	0;	10908
29;	675.2;	01-APR-2004	02:49:42;	Dark ;	54.5;	4;	Alp1Cen ;	-0.01;	5800;occ;	109;	0;	10908
30;	842.8;	01-APR-2004	02:52:30;	Dark ;	121.0;	16;	21Alp Sco ;	1.02;	3000;occ;	242;	0;	10908
31;	1101.7;	01-APR-2004	02:56:49;	Dark ;	53.5;	54;	5The Cen ;	2.06;	4500;occ;	107;	0;	10908
32;	1430.1;	01-APR-2004	03:02:17;	Dark ;	52.0;	169;	46Gam Hya ;	2.99;	4700;occ;	104;	0;	10908

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2;	-4155.5;	01-APR-2004	11:32:47;	Bright;	45.5;	121;	29Gam Vir ;	2.74;	7200;occ;	91;	0;	10913
3;	-3877.5;	01-APR-2004	11:37:25;	Bright;	39.0;	62;	94Bet Leo ;	2.14;	9700;occ;	78;	0;	10913
4;	-3780.2;	01-APR-2004	11:39:02;	Bright;	38.0;	96;	68Del Leo ;	2.56;	9300;occ;	76;	0;	10913
5;	-3675.9;	01-APR-2004	11:40:47;	Bright;	38.5;	166;	17Eps Leo ;	2.98;	6000;occ;	77;	0;	10913
6;	-3567.0;	01-APR-2004	11:42:35;	Bright;	67.5;	111;	8Eta Boo ;	2.68;	6000;occ;	135;	0;	10913
7;	-3371.8;	01-APR-2004	11:45:51;	Bright;	37.5;	174;	52Psi UMa ;	3.00;	4400;occ;	75;	0;	10913
8;	-3191.5;	01-APR-2004	11:48:51;	Bright;	38.5;	87;	64Gam UMa ;	2.43;	11000;occ;	77;	0;	10913
9;	-3080.1;	01-APR-2004	11:50:42;	Bright;	39.5;	36;	50Alp UMa ;	1.80;	6300;occ;	79;	0;	10913
10;	-2703.5;	01-APR-2004	11:56:59;	Bright;	42.0;	60;	7Bet UMi ;	2.08;	3950;occ;	84;	0;	10913
11;	-2597.4;	01-APR-2004	11:58:45;	Bright;	36.0;	49;	1Alp UMi ;	1.99;	6300;occ;	72;	0;	10913
12;	-2197.2;	01-APR-2004	12:05:25;	Bright;	36.0;	76;	27Gam Cas ;	2.30;	30000;occ;	72;	0;	10913
13;	-2117.2;	01-APR-2004	12:06:45;	Bright;	35.0;	68;	18Alp Cas ;	2.22;	4500;occ;	70;	0;	10913
14;	-1839.6;	01-APR-2004	12:11:23;	Bright;	47.5;	144;	18Del Cyg ;	2.86;	11000;occ;	95;	0;	10913
15;	-1724.7;	01-APR-2004	12:13:18;	Bright;	46.5;	66;	37Gam Cyg ;	2.21;	5900;occ;	93;	0;	10913
16;	-1602.9;	01-APR-2004	12:15:20;	Bright;	44.5;	92;	53Eps Cyg ;	2.50;	4500;occ;	89;	0;	10913
17;	-1207.7;	01-APR-2004	12:21:55;	Dark ;	49.5;	61;	8Eps Peg ;	2.10;	3900;occ;	99;	0;	10913
18;	-987.3;	01-APR-2004	12:25:35;	Dark ;	65.5;	11;	53Alp Aql ;	0.76;	8000;occ;	131;	0;	10913
19;	-777.3;	01-APR-2004	12:29:05;	Dark ;	41.5;	142;	49Del Cap ;	2.85;	8900;occ;	83;	0;	10913
20;	-441.2;	01-APR-2004	12:34:41;	Dark ;	39.0;	172;	Gam Gru ;	3.00;	13100;occ;	78;	0;	10913
21;	-296.3;	01-APR-2004	12:37:06;	Dark ;	43.5;	31;	Alp Gru ;	1.73;	15200;occ;	87;	0;	10913
22;	-166.1;	01-APR-2004	12:39:16;	Dark ;	59.5;	0;		0.00;	0;occ;	119;	0;	10913
23;	-42.3;	01-APR-2004	12:41:20;	Dark ;	45.0;	45;	Alp Pav ;	1.94;	26000;occ;	90;	0;	10913
24;	77.2;	01-APR-2004	12:43:20;	Dark ;	61.5;	116;	19Del Sgr ;	2.70;	4100;occ;	123;	0;	10914
25;	288.8;	01-APR-2004	12:46:51;	Dark ;	56.0;	85;	Kap Sco ;	2.41;	28000;occ;	112;	0;	10914
26;	409.6;	01-APR-2004	12:48:52;	Dark ;	39.0;	43;	Alp TrA ;	1.91;	4250;occ;	78;	0;	10914
27;	521.5;	01-APR-2004	12:50:44;	Dark ;	40.0;	134;	Bet TrA ;	2.81;	6600;occ;	80;	0;	10914
28;	679.2;	01-APR-2004	12:53:22;	Dark ;	55.0;	4;	Alp1Cen ;	-0.01;	5800;occ;	110;	0;	10914
29;	813.2;	01-APR-2004	12:55:36;	Dark ;	46.0;	12;	Alp1Cru ;	0.77;	30000;occ;	92;	0;	10914
30;	899.4;	01-APR-2004	12:57:02;	Dark ;	46.0;	26;	Gam Cru ;	1.62;	2900;occ;	92;	0;	10914
31;	1017.2;	01-APR-2004	12:59:00;	Dark ;	42.0;	64;	Gam Cen ;	2.20;	10600;occ;	84;	0;	10914
32;	1104.9;	01-APR-2004	13:00:27;	Dark ;	56.0;	54;	5The Cen ;	2.06;	4500;occ;	112;	0;	10914
33;	1255.2;	01-APR-2004	13:02:58;	Dark ;	149.5;	97;	8Bet1Sco ;	2.56;	30000;occ;	299;	0;	10914
34;	1578.4;	01-APR-2004	13:08:21;	Dark ;	14.0;	100;	4Gam Crv ;	2.58;	13100;occ;	28;	0;	10914

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 3;-4155.5; 01-APR-2004 13:13:23; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;10914  
 4;-3877.4; 01-APR-2004 13:18:01; Bright; 39.5; 62; 94Bet Leo ; 2.14; 9700;occ; 79; 0;10914  
 5;-3780.3; 01-APR-2004 13:19:38; Bright; 38.0; 96; 68Del Leo ; 2.56; 9300;occ; 76; 0;10914  
 6;-3675.7; 01-APR-2004 13:21:23; Bright; 39.0; 166; 17Eps Leo ; 2.98; 6000;occ; 78; 0;10914  
 7;-3568.6; 01-APR-2004 13:23:10; Bright; 63.5; 111; 8Eta Boo ; 2.68; 6000;occ; 127; 0;10914  
 8;-3371.9; 01-APR-2004 13:26:26; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;10914  
 9;-3191.9; 01-APR-2004 13:29:26; Bright; 40.0; 87; 64Gam UMa ; 2.43; 11000;occ; 80; 0;10914  
 10;-3080.2; 01-APR-2004 13:31:18; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;10914  
 11;-2704.1; 01-APR-2004 13:37:34; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;10914  
 12;-2597.1; 01-APR-2004 13:39:21; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;10914  
 13;-2196.8; 01-APR-2004 13:46:02; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;10914  
 14;-2116.5; 01-APR-2004 13:47:22; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;10914  
 15;-1840.0; 01-APR-2004 13:51:58; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;10914  
 16;-1724.5; 01-APR-2004 13:53:54; Bright; 46.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 92; 0;10914  
 17;-1602.8; 01-APR-2004 13:55:56; Bright; 47.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 94; 0;10914  
 18;-1207.2; 01-APR-2004 14:02:31; Dark ; 48.5; 61; 8Eps Peg ; 2.10; 3900;occ; 97; 0;10914  
 19;-986.9; 01-APR-2004 14:06:11; Dark ; 63.0; 11; 53Alp Aql ; 0.76; 8000;occ; 126; 0;10914  
 20;-776.5; 01-APR-2004 14:09:42; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;10914  
 21;-440.8; 01-APR-2004 14:15:18; Dark ; 40.0; 172; Gam Gru ; 3.00; 13100;occ; 80; 0;10914  
 22;-296.1; 01-APR-2004 14:17:42; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;10914  
 23;-165.8; 01-APR-2004 14:19:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10914  
 24;-41.7; 01-APR-2004 14:21:57; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;10914  
 25; 78.9; 01-APR-2004 14:23:57; Dark ; 67.5; 116; 19Del Sgr ; 2.70; 4100;occ; 135; 0;10915  
 26; 290.1; 01-APR-2004 14:27:28; Dark ; 53.5; 85; Kap Sco ; 2.41; 28000;occ; 107; 0;10915  
 27; 410.0; 01-APR-2004 14:29:28; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;10915  
 28; 522.1; 01-APR-2004 14:31:20; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;10915  
 29; 679.0; 01-APR-2004 14:33:57; Dark ; 49.5; 4; Alp1Cen ; -0.01; 5800;occ; 99; 0;10915  
 30; 813.4; 01-APR-2004 14:36:12; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;10915  
 31; 899.7; 01-APR-2004 14:37:38; Dark ; 46.0; 26; Gam Cru ; 1.62; 2900;occ; 92; 0;10915  
 32; 1017.6; 01-APR-2004 14:39:36; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;10915  
 33; 1105.7; 01-APR-2004 14:41:04; Dark ; 54.0; 54; 5The Cen ; 2.06; 4500;occ; 108; 0;10915

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 3;-4155.4; 01-APR-2004 03:09:48; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;10908  
 4;-3877.7; 01-APR-2004 03:14:25; Bright; 40.5; 62; 94Bet Leo ; 2.14; 9700;occ; 81; 0;10908  
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 7;-3561.1; 01-APR-2004 03:19:42; Bright; 67.5; 111; 8Eta Boo ; 2.68; 6000;occ; 135; 0;10908  
 8;-3371.1; 01-APR-2004 03:22:52; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;10908  
 9;-3190.5; 01-APR-2004 03:25:52; Bright; 39.5; 87; 64Gam UMa ; 2.43; 11000;occ; 79; 0;10908  
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 13;-2198.5; 01-APR-2004 03:42:24; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;10908  
 14;-2118.5; 01-APR-2004 03:43:44; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;10908  
 15;-1838.8; 01-APR-2004 03:48:24; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;10908  
 16;-1724.7; 01-APR-2004 03:50:18; Bright; 46.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 92; 0;10908  
 17;-1602.9; 01-APR-2004 03:52:20; Bright; 41.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 83; 0;10908  
 18;-1209.0; 01-APR-2004 03:58:54; Dark ; 49.0; 61; 8Eps Peg ; 2.10; 3900;occ; 98; 0;10908  
 19;-991.8; 01-APR-2004 04:02:31; Dark ; 67.5; 11; 53Alp Aql ; 0.76; 8000;occ; 135; 0;10908  
 20;-779.3; 01-APR-2004 04:06:04; Dark ; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;10908  
 21;-442.8; 01-APR-2004 04:11:40; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;10908  
 22;-307.8; 01-APR-2004 04:13:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10908  
 23;-46.5; 01-APR-2004 04:18:16; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;10908  
 24; 70.2; 01-APR-2004 04:20:13; Dark ; 65.0; 116; 19Del Sgr ; 2.70; 4100;occ; 130; 0;10909  
 25; 302.0; 01-APR-2004 04:24:05; Dark ; 53.5; 40; The Sco ; 1.86; 7100;occ; 107; 0;10909  
 26; 406.8; 01-APR-2004 04:25:50; Dark ; 45.0; 43; Alp TrA ; 1.91; 4250;occ; 90; 0;10909  
 27; 518.4; 01-APR-2004 04:27:41; Dark ; 42.0; 134; Bet TrA ; 2.81; 6600;occ; 84; 0;10909  
 28; 676.7; 01-APR-2004 04:30:20; Dark ; 46.5; 4; Alp1Cen ; -0.01; 5800;occ; 93; 0;10909  
 29; 844.1; 01-APR-2004 04:33:07; Dark ; 108.5; 16; 21Alp Sco ; 1.02; 3000;occ; 217; 0;10909  
 30; 1102.1; 01-APR-2004 04:37:25; Dark ; 54.5; 54; 5The Cen ; 2.06; 4500;occ; 109; 0;10909  
 31; 1430.3; 01-APR-2004 04:42:53; Dark ; 50.5; 169; 46Gam Hya ; 2.99; 4700;occ; 101; 0;10909  
 32; 1589.0; 01-APR-2004 04:45:32; Dark ; 9.5; 163; 7Del Crv ; 2.94; 11000;occ; 19; 0;10909

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 5;-3780.4; 01-APR-2004 04:56:39; Bright; 37.5; 96; 68Del Leo ; 2.56; 9300;occ; 75; 0;10909  
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 9;-3191.1; 01-APR-2004 05:06:28; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;10909  
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 13;-2198.4; 01-APR-2004 05:23:01; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;10909  
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 16;-1724.4; 01-APR-2004 05:30:54; Bright; 46.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 92; 0;10909  
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 21; -442.0; 01-APR-2004 05:52:17; Dark ; 39.0; 172; Gam Gru ; 3.00; 13100;occ; 78; 0;10909  
 22; -307.1; 01-APR-2004 05:54:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10909  
 23; -43.7; 01-APR-2004 05:58:55; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;10909  
 24; 71.1; 01-APR-2004 06:00:50; Dark ; 64.0; 116; 19Del Sgr ; 2.70; 4100;occ; 128; 0;10910  
 25; 284.1; 01-APR-2004 06:04:23; Dark ; 53.5; 85; Kap Sco ; 2.41; 28000;occ; 107; 0;10910  
 26; 407.2; 01-APR-2004 06:06:26; Dark ; 48.5; 43; Alp TrA ; 1.91; 4250;occ; 97; 0;10910  
 27; 518.8; 01-APR-2004 06:08:18; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;10910  
 28; 677.1; 01-APR-2004 06:10:56; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;10910  
 29; 811.9; 01-APR-2004 06:13:11; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;10910  
 30; 899.0; 01-APR-2004 06:14:38; Dark ; 51.0; 26; Gam Cru ; 1.62; 2900;occ; 102; 0;10910  
 31; 1015.9; 01-APR-2004 06:16:35; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;10910  
 32; 1103.1; 01-APR-2004 06:18:02; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;10910  
 33; 1250.4; 01-APR-2004 06:20:29; Dark ; 159.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 318; 0;10910  
 34; 1577.9; 01-APR-2004 06:25:57; Dark ; 34.5; 100; 4Gam Crv ; 2.58; 13100;occ; 69; 0;10910

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 25; 284.1; 01-APR-2004 06:04:23; Dark ; 53.5; 85; Kap Sco ; 2.41; 28000;occ; 107; 0;10910  
 26; 407.2; 01-APR-2004 06:06:26; Dark ; 48.5; 43; Alp TrA ; 1.91; 4250;occ; 97; 0;10910  
 27; 518.8; 01-APR-2004 06:08:18; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;10910  
 28; 677.1; 01-APR-2004 06:10:56; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;10910  
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 31; 1015.9; 01-APR-2004 06:16:35; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;10910  
 32; 1103.1; 01-APR-2004 06:18:02; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;10910  
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 8;-3371.7; 01-APR-2004 06:44:03; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;10910  
 9;-3190.7; 01-APR-2004 06:47:04; Bright; 39.0; 87; 64Gam UMa ; 2.43; 11000;occ; 78; 0;10910  
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 16;-1724.7; 01-APR-2004 07:11:30; Bright; 46.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 93; 0;10910  
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 28; 519.6; 01-APR-2004 07:48:55; Dark ; 42.0; 134; Bet TrA ; 2.81; 6600;occ; 84; 0;10911  
 29; 677.8; 01-APR-2004 07:51:33; Dark ; 48.5; 4; Alp1Cen ; -0.01; 5800;occ; 97; 0;10911  
 30; 812.4; 01-APR-2004 07:53:47; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;10911  
 31; 899.6; 01-APR-2004 07:55:14; Dark ; 45.5; 26; Gam Cru ; 1.62; 2900;occ; 91; 0;10911  
 32; 1016.7; 01-APR-2004 07:57:12; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;10911  
 33; 1103.3; 01-APR-2004 07:58:38; Dark ; 54.0; 54; 5The Cen ; 2.06; 4500;occ; 108; 0;10911  
 34; 1250.9; 01-APR-2004 08:01:06; Dark ; 154.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 308; 0;10911  
 35; 1578.3; 01-APR-2004 08:06:33; Dark ; 44.0; 100; 4Gam Crv ; 2.58; 13100;occ; 88; 0;10911  
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 4;-3779.9; 01-APR-2004 08:17:51; Bright; 37.5; 96; 68Del Leo ; 2.56; 9300;occ; 75; 0;10911  
 5;-3676.4; 01-APR-2004 08:19:34; Bright; 37.5; 166; 17Eps Leo ; 2.98; 6000;occ; 75; 0;10911  
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 8;-3190.6; 01-APR-2004 08:27:40; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;10911  
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 12;-2198.5; 01-APR-2004 08:44:12; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;10911  
 13;-2118.4; 01-APR-2004 08:45:32; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;10911  
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 16;-1603.1; 01-APR-2004 08:54:08; Bright; 45.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 91; 0;10911  
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 19;-777.4; 01-APR-2004 09:07:53; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;10911  
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33; 1252.5; 01-APR-2004 09:41:43; Dark ; 159.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 318; 0;10912
34; 1578.2; 01-APR-2004 09:47:09; Dark ; 44.0; 100; 4Gam Crv ; 2.58; 13100;occ; 88; 0;10912
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22; -166.5; 01-APR-2004 10:58:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10912
23; -42.2; 01-APR-2004 11:00:44; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;10912
24; 75.7; 01-APR-2004 11:02:42; Dark ; 66.5; 116; 19Del Sgr ; 2.70; 4100;occ; 133; 0;10913
25; 287.9; 01-APR-2004 11:06:15; Dark ; 54.5; 85; Kap Sco ; 2.41; 28000;occ; 109; 0;10913
26; 409.1; 01-APR-2004 11:08:16; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;10913
27; 520.9; 01-APR-2004 11:10:08; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;10913
28; 678.9; 01-APR-2004 11:12:46; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;10913
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31; 1016.8; 01-APR-2004 11:18:23; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;10913
32; 1103.8; 01-APR-2004 11:19:50; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;10913
33; 1253.8; 01-APR-2004 11:22:20; Dark ; 158.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 316; 0;10913
34; 1578.3; 01-APR-2004 11:27:45; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;10913
35; 1685.6; 01-APR-2004 11:29:32; Dark ; 19.0; 15; 67Alp Vir ; 0.98; 28000;occ; 38; 0;10913
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9;-3194.1; 02-APR-2004 01:13:36; Bright; 38.0; 87; 64Gam UMa ; 2.43; 11000;occ; 76; 0;10921
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