

# GOMOS Daily Report 25-JUN-2004

## Level 0 and Level 1 products

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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	26JUN2004 03:43:01
Data source version	GOMOS/4.02
Start time of products	25-JUN-2004 (25JUN2004 00:00:00)
Stop time of products	26-JUN-2004 (26JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

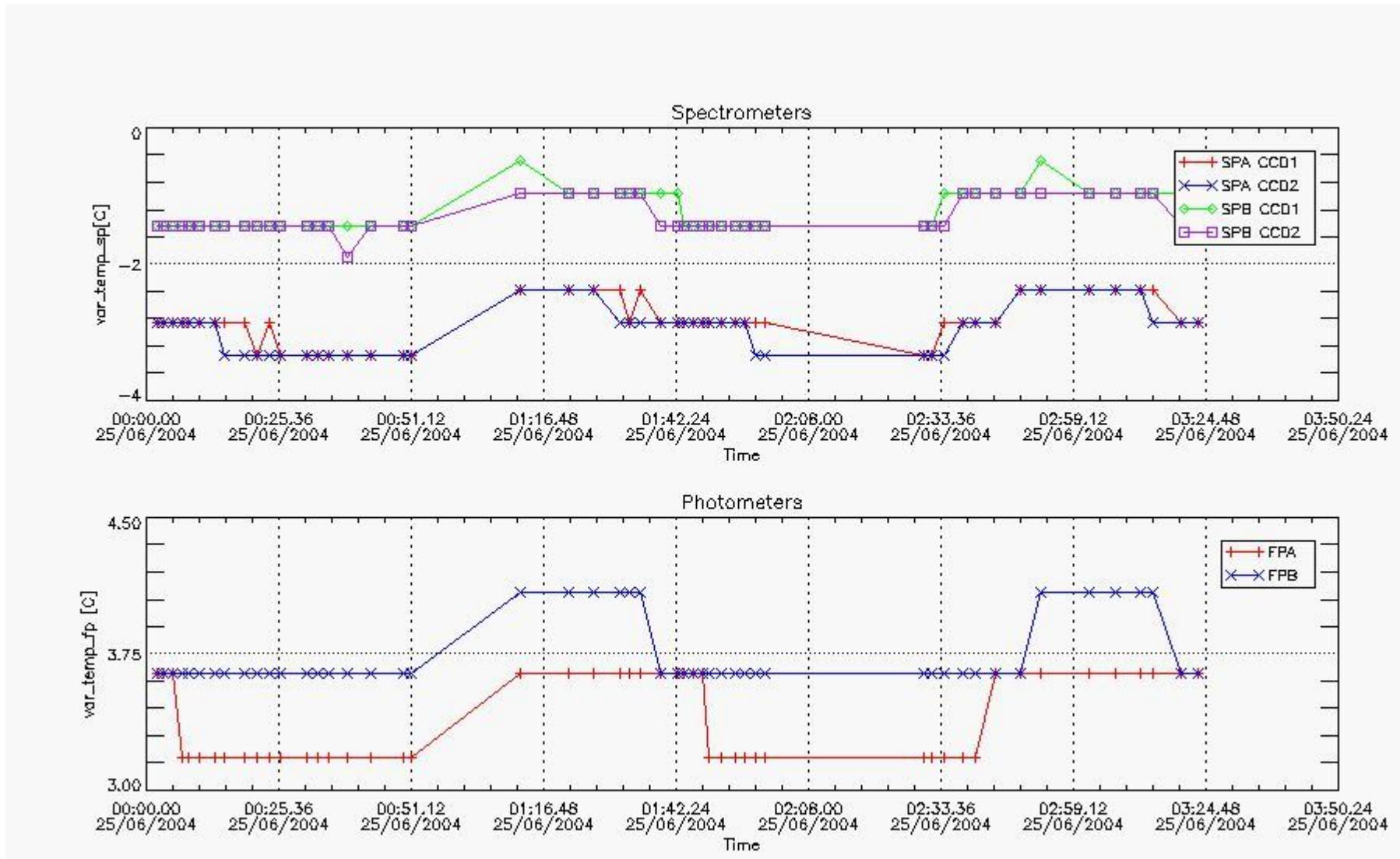
## 2. Summary of products arrived in PCF

### 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
GOM_TRA_1PNPDE20040625_000200_000000412028_00045_12123_0006.N1	25-JUN-2004 00:02:00	Bright	40.500	141	Bet Ara	2.8400	4600.0	81	12123	No
GOM_TRA_1PNPDE20040625_000326_000000412028_00045_12123_0007.N1	25-JUN-2004 00:03:26	Bright	41.000	147	Alp Ara	2.8770	26000.	82	12123	No
GOM_TRA_1PNPDE20040625_000513_000000482028_00045_12123_0008.N1	25-JUN-2004 00:05:13	Bright	47.500	40	The Sco	1.8590	7100.0	95	12123	No
GOM_TRA_1PNPDE20040625_000653_000000462028_00045_12123_0009.N1	25-JUN-2004 00:06:53	Bright	45.500	25	35Lam Sco	1.6200	28000.	91	12123	No
GOM_TRA_1PNPDE20040625_000815_000000532028_00045_12123_0010.N1	25-JUN-2004 00:08:15	Bright	53.000	116	19Del Sgr	2.7000	4100.0	106	12123	No
GOM_TRA_1PNPDE20040625_001022_000000532028_00045_12123_0011.N1	25-JUN-2004 00:10:22	Bright	52.500	155	41Pi Sgr	2.9000	6600.0	105	12123	No
GOM_TRA_1PNPDE20040625_001309_000000422028_00045_12123_0012.N1	25-JUN-2004 00:13:09	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	12123	No
GOM_TRA_1PNPDE20040625_001455_000000382028_00045_12123_0013.N1	25-JUN-2004 00:14:55	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	12123	No
GOM_TRA_1PNPDE20040625_001906_000000412028_00045_12123_0014.N1	25-JUN-2004 00:19:06	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	12123	No
GOM_TRA_1PNPDE20040625_002127_000000432028_00045_12123_0015.N1	25-JUN-2004 00:21:27	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	12123	No
GOM_TRA_1PNPDE20040625_002355_000000382028_00045_12123_0016.N1	25-JUN-2004 00:23:55	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	12123	No
GOM_TRA_1PNPDE20040625_002553_000000372028_00045_12123_0017.N1	25-JUN-2004 00:25:53	Bright	36.500	67	5Alp CrB	2.2210	11000.	73	12123	No
GOM_TRA_1PNPDE20040625_003057_000000472028_00045_12123_0018.N1	25-JUN-2004 00:30:57	Bright	46.500	5	3Alp Lyr	0.033000	11000.	93	12123	No
GOM_TRA_1PNPDE20040625_003305_000000372028_00045_12123_0019.N1	25-JUN-2004 00:33:05	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	12123	No
GOM_TRA_1PNPDE20040625_003512_000000392028_00045_12123_0020.N1	25-JUN-2004 00:35:12	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	12123	No
GOM_TRA_1PNPDE20040625_003859_000000402028_00045_12123_0021.N1	25-JUN-2004 00:38:59	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	12123	No
GOM_TRA_1PNPDE20040625_004325_000000382028_00045_12123_0022.N1	25-JUN-2004 00:43:25	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	12123	No
GOM_TRA_1PNPDE20040625_004946_000000472028_00045_12123_0023.N1	25-JUN-2004 00:49:46	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	12123	No
GOM_TRA_1PNPDE20040625_005120_000000492028_00045_12123_0024.N1	25-JUN-2004 00:51:20	Bright	48.500	68	18Alp Cas	2.2250	4500.0	97	12123	No
GOM_TRA_1PNPDE20040625_011222_000000382028_00045_12123_0000.N1	25-JUN-2004 01:12:22	Dark	37.500	165	34Gam Eri	2.9500	3200.0	75	12123	No
GOM_TRA_1PNPDE20040625_012132_000000842028_00045_12123_0001.N1	25-JUN-2004 01:21:32	Dark	83.500	52	16Bet Cet	2.0370	4500.0	167	12123	No
GOM_TRA_1PNPDE20040625_012632_000000492028_00046_12124_0002.N1	25-JUN-2004 01:26:32	Dark	49.000	9	Alp Eri	0.45300	24000.	98	12124	No
GOM_TRA_1PNPDE20040625_013132_000000432028_00046_12124_0003.N1	25-JUN-2004 01:31:32	Dark	42.500	135	Bet Hyi	2.8200	5800.0	85	12124	No
GOM_TRA_1PNPDE20040625_013324_000000582028_00046_12124_0004.N1	25-JUN-2004 01:33:24	Dark	58.000	63	Bet Gru	2.1500	2800.0	116	12124	No
GOM_TRA_1PNPDE20040625_013525_000000532028_00046_12124_0005.N1	25-JUN-2004 01:35:25	Dark	52.500	31	Alp Gru	1.7340	15200.	105	12124	No
GOM_TRA_1PNPDE20040625_013918_000000512028_00046_12124_0006.N1	25-JUN-2004 01:39:18	Twilight	50.500	43	Alp TrA	1.9100	4250.0	101	12124	No
GOM_TRA_1PNPDE20040625_014236_000000432028_00046_12124_0007.N1	25-JUN-2004 01:42:36	Bright	42.500	141	Bet Ara	2.8400	4600.0	85	12124	No
GOM_TRA_1PNPDE20040625_014401_000000412028_00046_12124_0008.N1	25-JUN-2004 01:44:01	Bright	40.500	147	Alp Ara	2.8770	26000.	81	12124	No
GOM_TRA_1PNPDE20040625_014549_000000452028_00046_12124_0009.N1	25-JUN-2004 01:45:49	Bright	44.500	40	The Sco	1.8590	7100.0	89	12124	No
GOM_TRA_1PNPDE20040625_014729_000000432028_00046_12124_0010.N1	25-JUN-2004 01:47:29	Bright	43.000	25	35Lam Sco	1.6200	28000.	86	12124	No
GOM_TRA_1PNPDE20040625_014851_000000462028_00046_12124_0011.N1	25-JUN-2004 01:48:51	Bright	46.000	116	19Del Sgr	2.7000	4100.0	92	12124	No
GOM_TRA_1PNPDE20040625_015100_000000512028_00046_12124_0012.N1	25-JUN-2004 01:51:00	Bright	50.500	155	41Pi Sgr	2.9000	6600.0	101	12124	No
GOM_TRA_1PNPDE20040625_015345_000000422028_00046_12124_0013.N1	25-JUN-2004 01:53:45	Bright	42.000	86	35Eta Oph	2.4300	10200.	84	12124	No
GOM_TRA_1PNPDE20040625_015531_000000382028_00046_12124_0014.N1	25-JUN-2004 01:55:31	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12124	No
GOM_TRA_1PNPDE20040625_015738_000000382028_00046_12124_0015.N1	25-JUN-2004 01:57:38	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	12124	No
GOM_TRA_1PNPDE20040625_015941_000000412028_00046_12124_0016.N1	25-JUN-2004 01:59:41	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	12124	No
GOM_TRA_1PNPDE20040625_023021_000000682028_00046_12124_0000.N1	25-JUN-2004 02:30:21	Bright	68.000	74	11Bet Cas	2.2680	6600.0	136	12124	No
GOM_TRA_1PNPDE20040625_023155_000000502028_00046_12124_0001.N1	25-JUN-2004 02:31:55	Bright	49.500	68	18Alp Cas	2.2250	4500.0	99	12124	No
GOM_TRA_1PNPDE20040625_023421_000000382028_00046_12124_0002.N1	25-JUN-2004 02:34:21	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	12124	No
GOM_TRA_1PNPDE20040625_023746_000000472028_00046_12124_0003.N1	25-JUN-2004 02:37:46	Twilight	47.000	73	57Gam1And	2.2600	13100.	94	12124	No
GOM_TRA_1PNPDE20040625_024014_000000652028_00046_12124_0004.N1	25-JUN-2004 02:40:14	Twilight	65.000	53	43Bet And	2.0480	3300.0	130	12124	No
GOM_TRA_1PNPDE20040625_024412_000000572028_00046_12124_0005.N1	25-JUN-2004 02:44:12	Twilight	56.500	50	13Alp Ari	2.0070	4250.0	113	12124	No
GOM_TRA_1PNPDE20040625_024903_000000452028_00046_12124_0006.N1	25-JUN-2004 02:49:03	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	12124	No
GOM_TRA_1PNPDE20040625_025259_000000472028_00046_12124_0007.N1	25-JUN-2004 02:52:59	Dark	46.500	165	34Gam Eri	2.9500	3200.0	93	12124	No
GOM_TRA_1PNPDE20040625_030209_000000632028_00046_12124_0008.N1	25-JUN-2004 03:02:09	Dark	62.500	52	16Bet Cet	2.0370	4500.0	125	12124	No
GOM_TRA_1PNPDE20040625_030711_000000442028_00047_12125_0009.N1	25-JUN-2004 03:07:11	Dark	44.000	9	Alp Eri	0.45300	24000.	88	12125	No
GOM_TRA_1PNPDE20040625_031210_000000402028_00047_12125_0010.N1	25-JUN-2004 03:12:10	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	12125	No
GOM_TRA_1PNPDE20040625_031426_000000912028_00047_12125_0011.N1	25-JUN-2004 03:14:26	Dark	90.500	18	24Alp PsA	1.1660	9700.0	181	12125	No
GOM_TRA_1PNPDE20040625_031955_000000452028_00047_12125_0012.N1	25-JUN-2004 03:19:55	Twilight	45.000	43	Alp TrA	1.9100	4250.0	90	12125	No

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



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

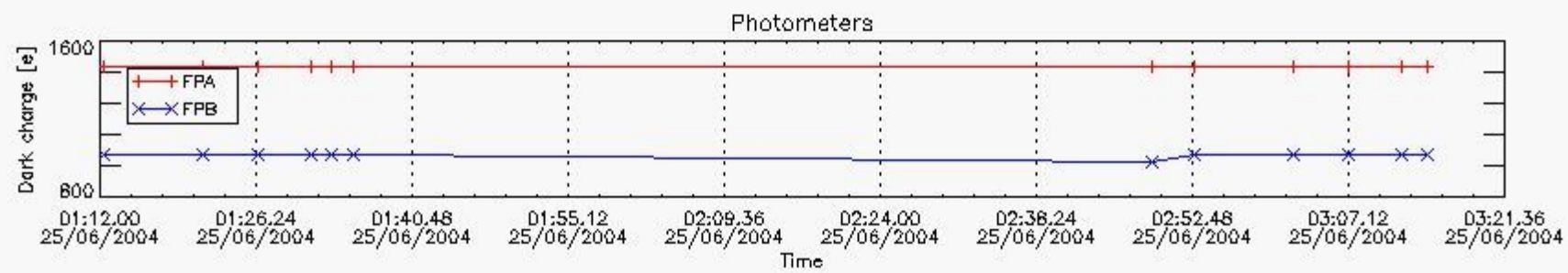
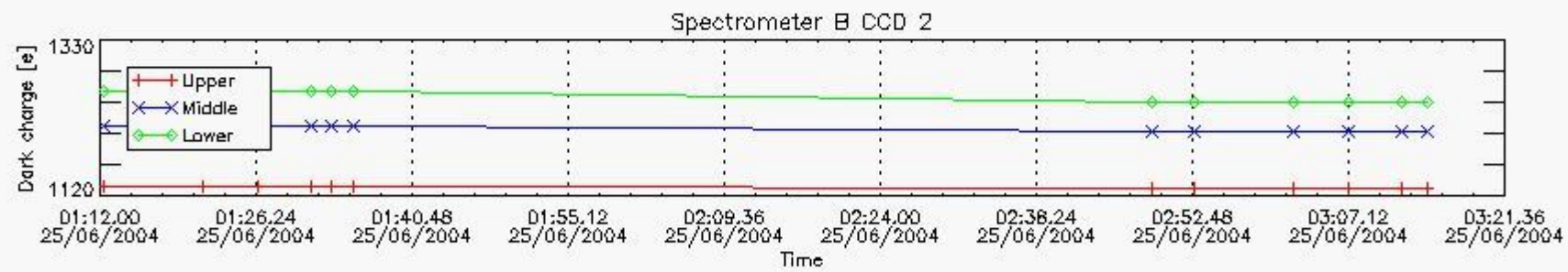
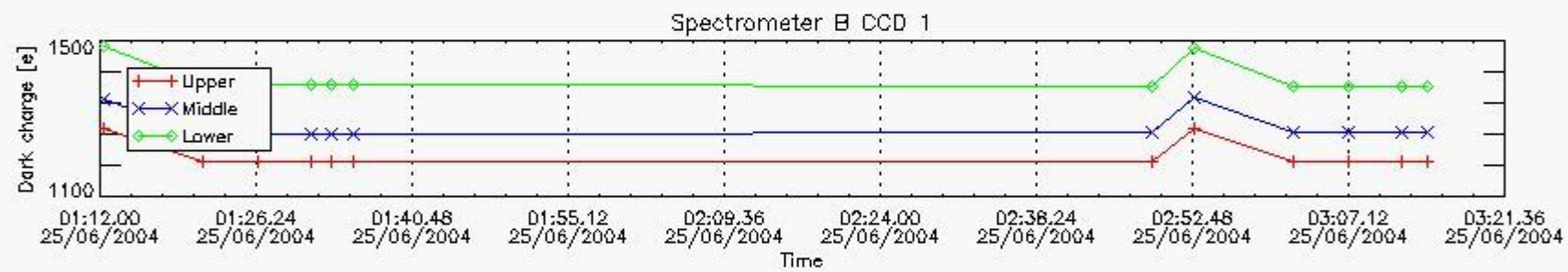
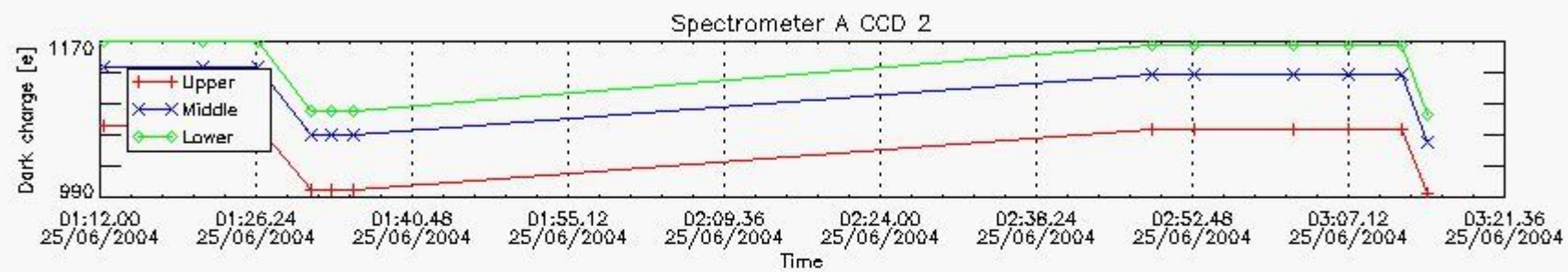
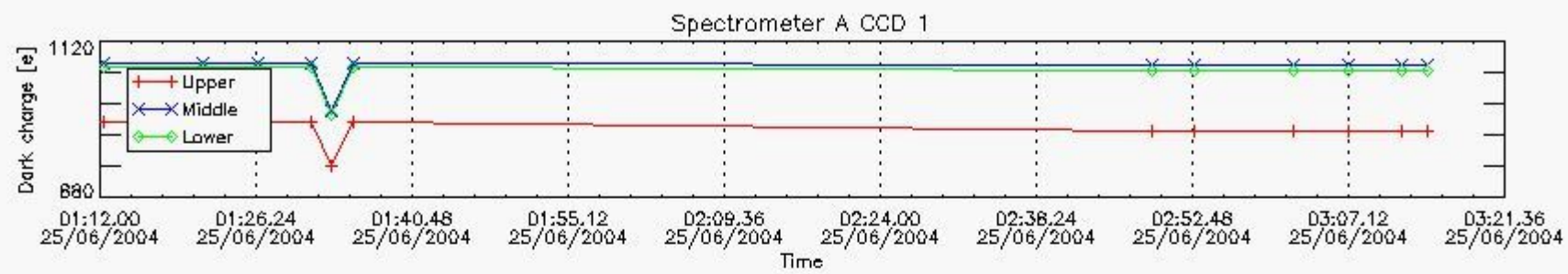
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





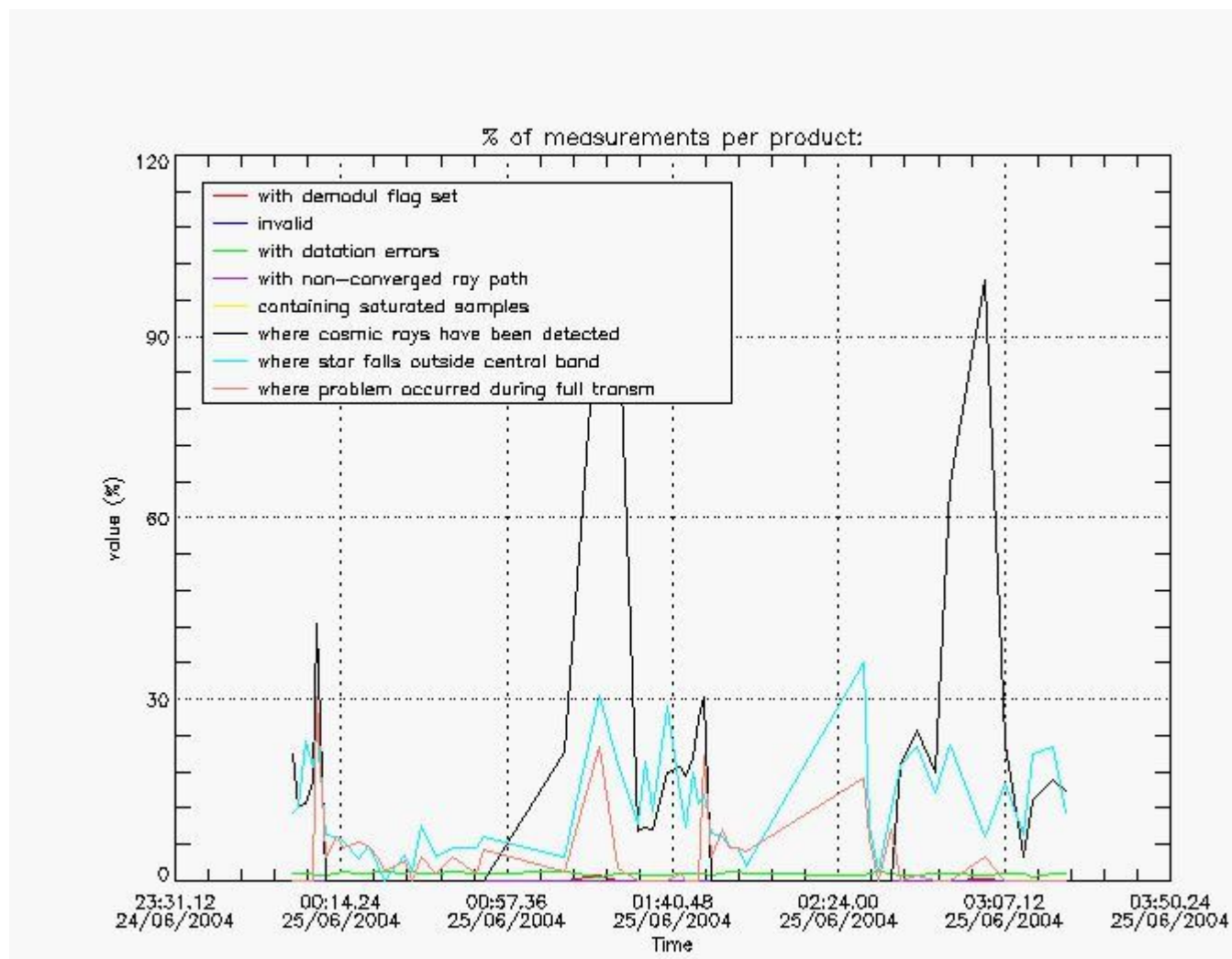
## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

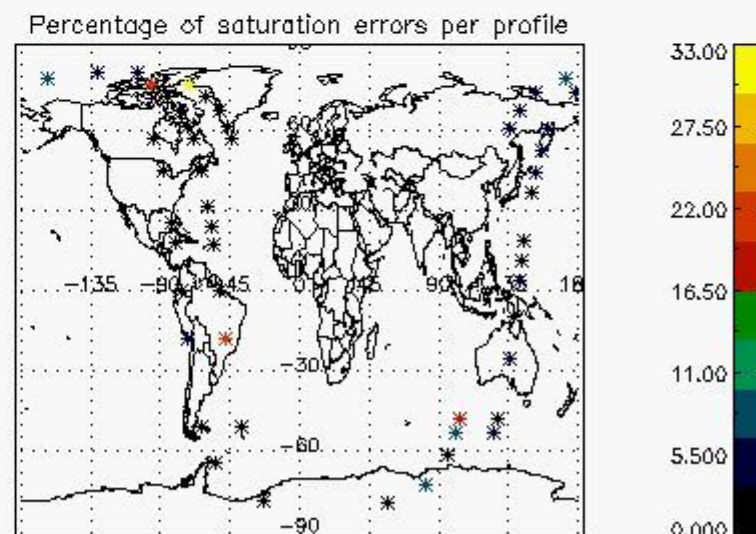
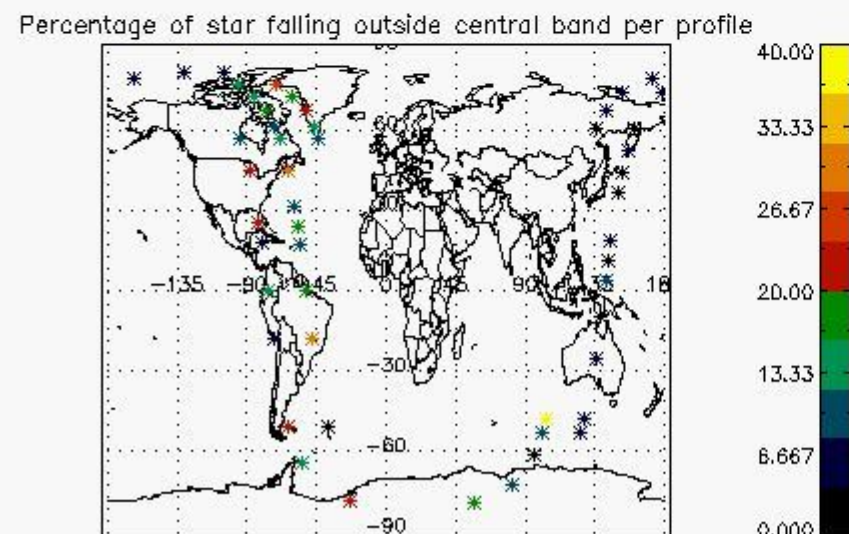
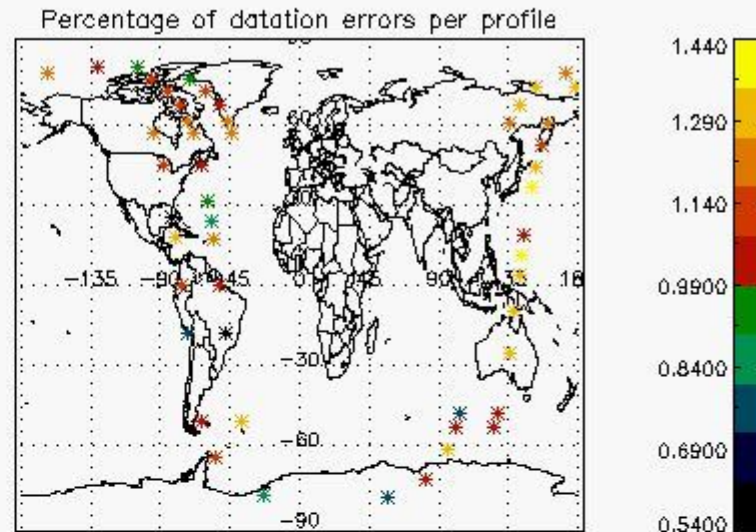
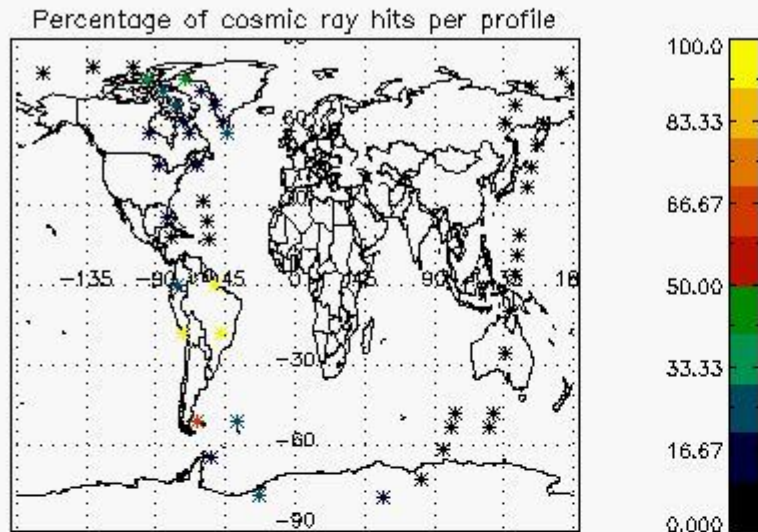
At least one measurement with demodulation flag set:	6.00000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





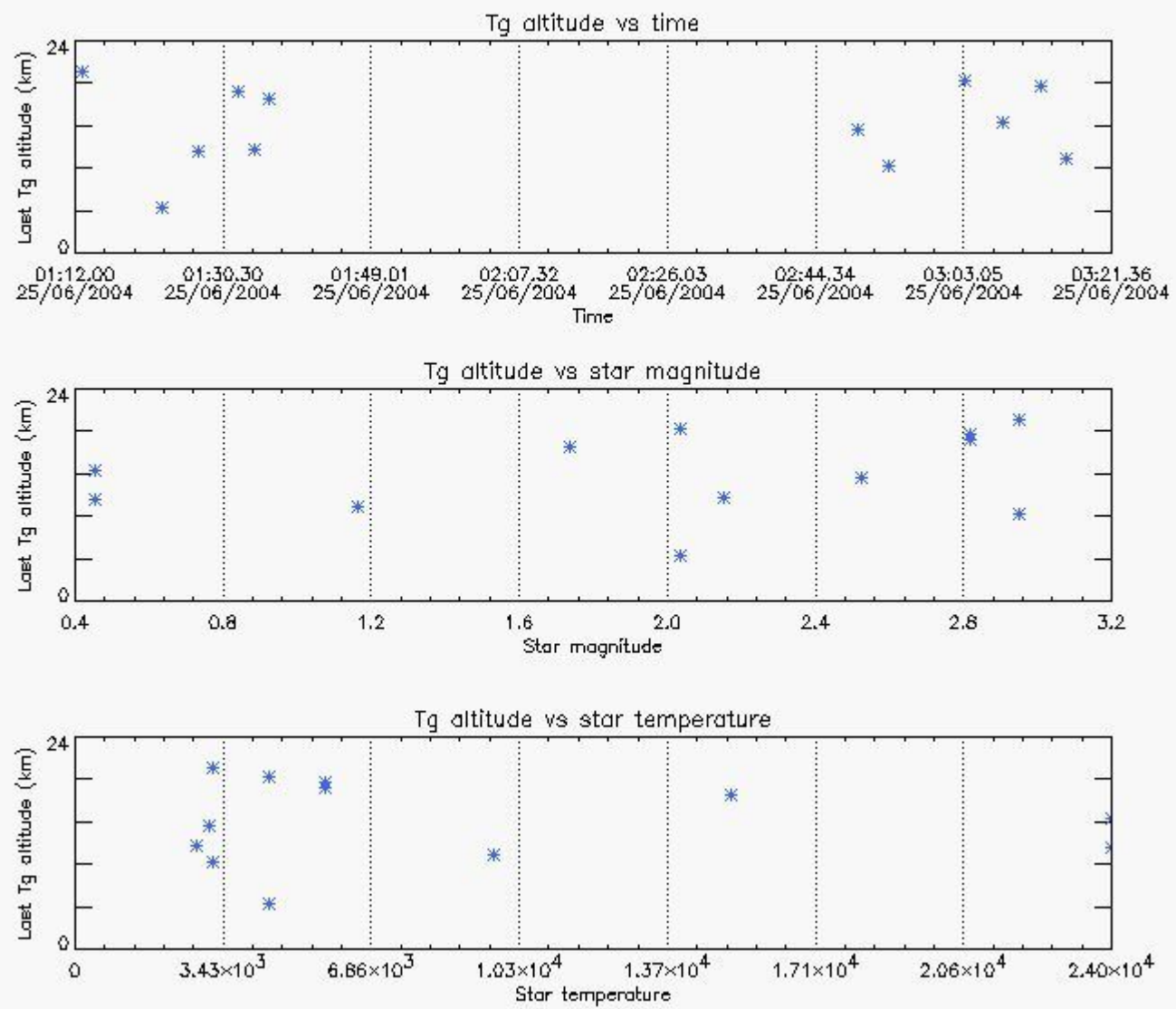
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.330	18.752	11.351
St. deviation:	4.7295	5.0137	3.6879
Maximum:	20.548	27.900	16.762
Minimum:	5.0601	4.2619	6.7006
Number of data:	12.000	33.000	5.0000

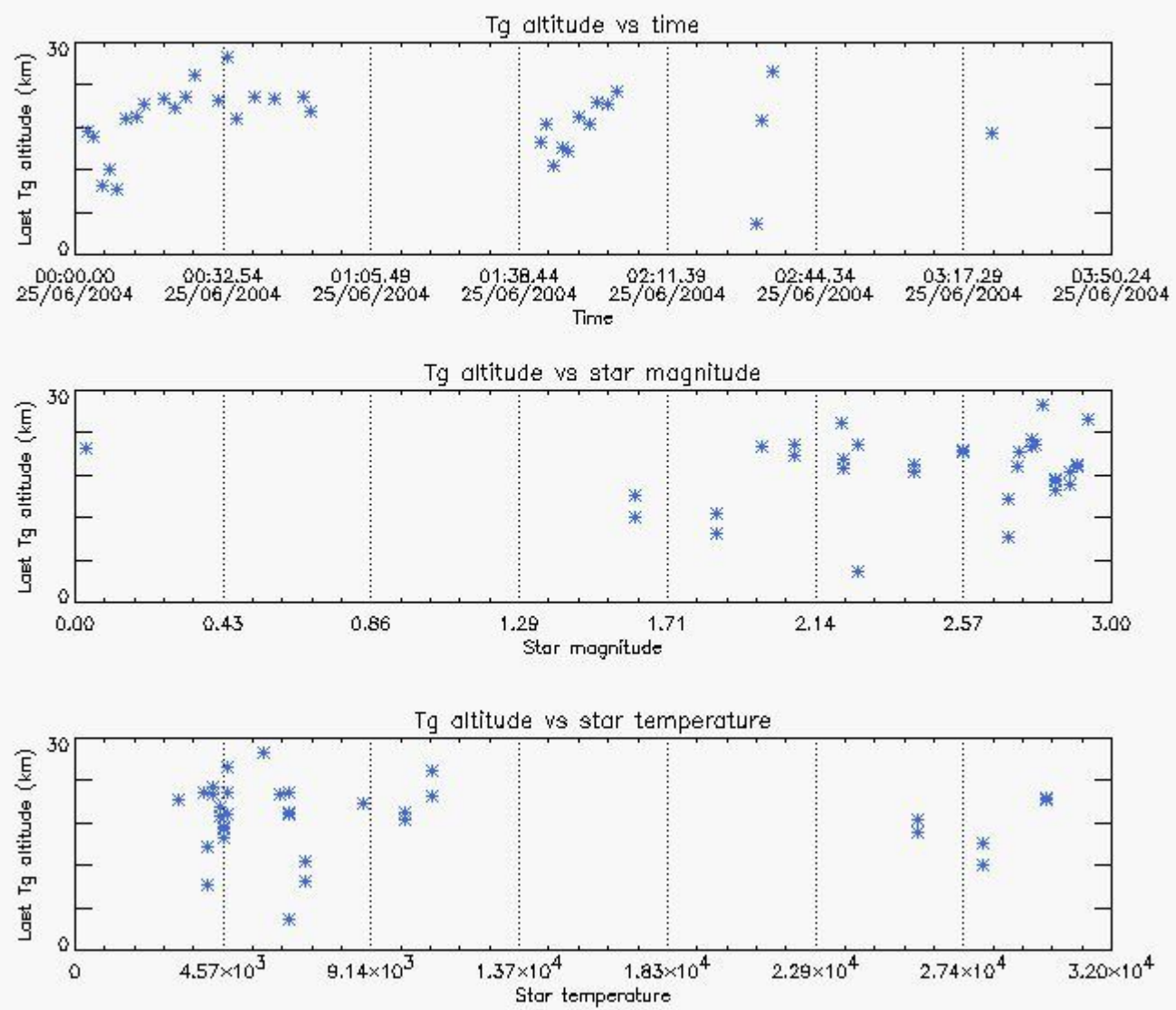
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

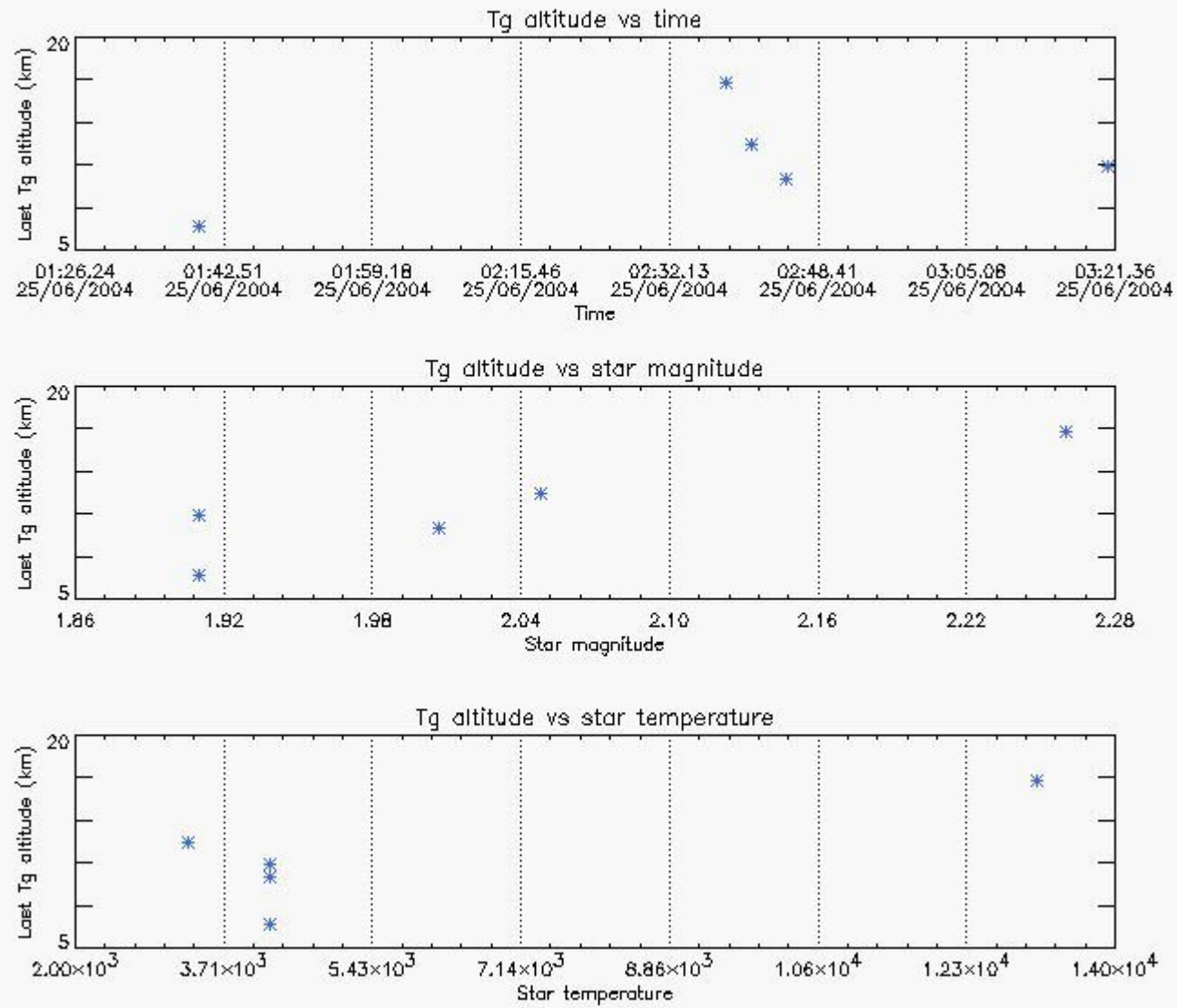
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



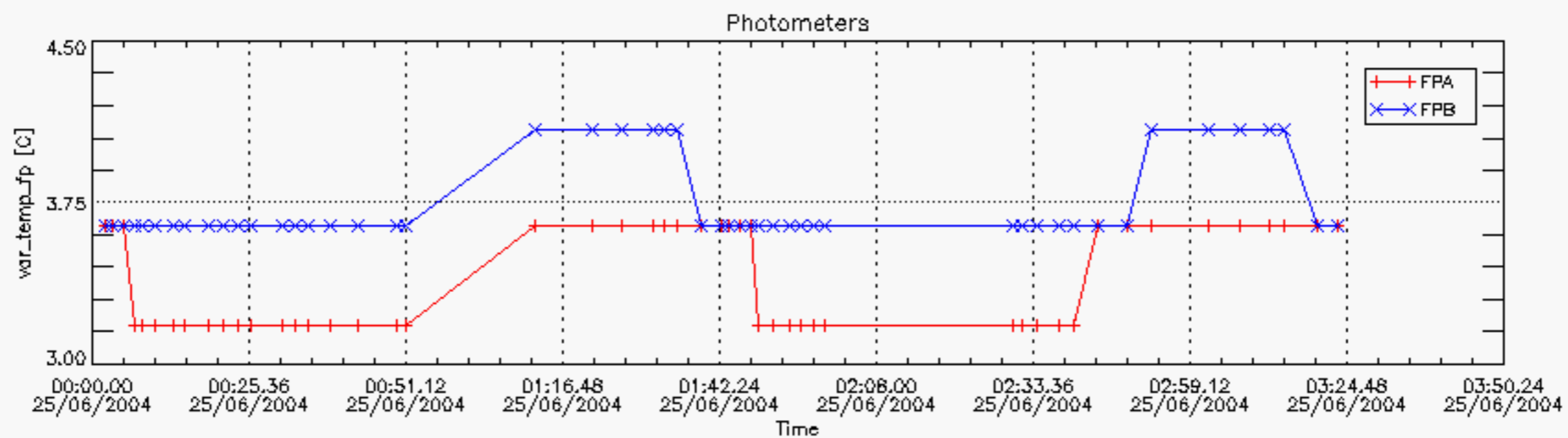
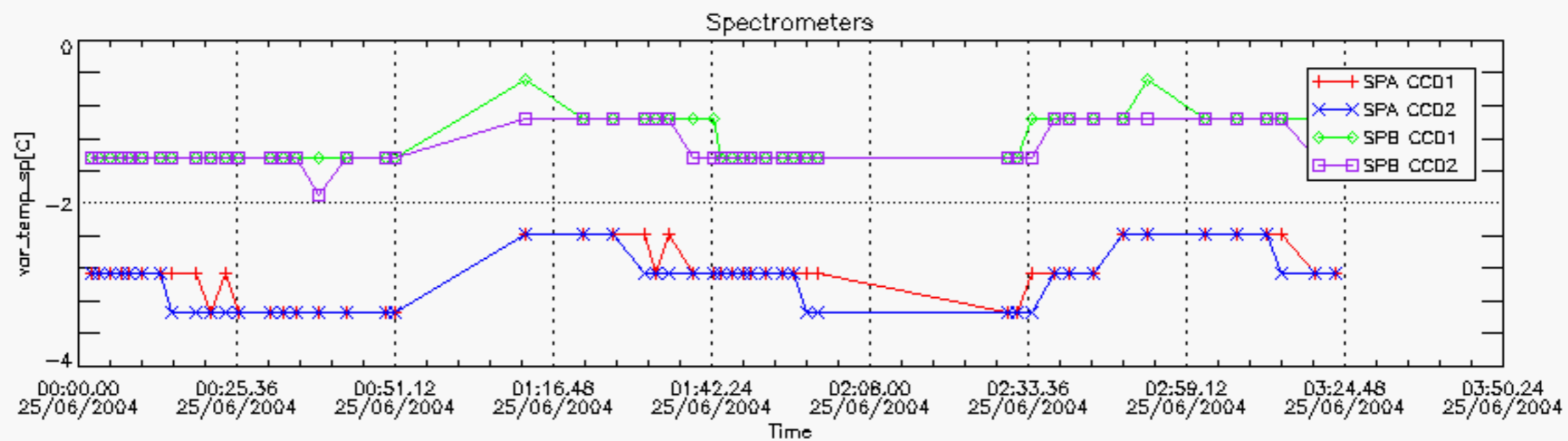
### Tangent altitude at which the star is lost

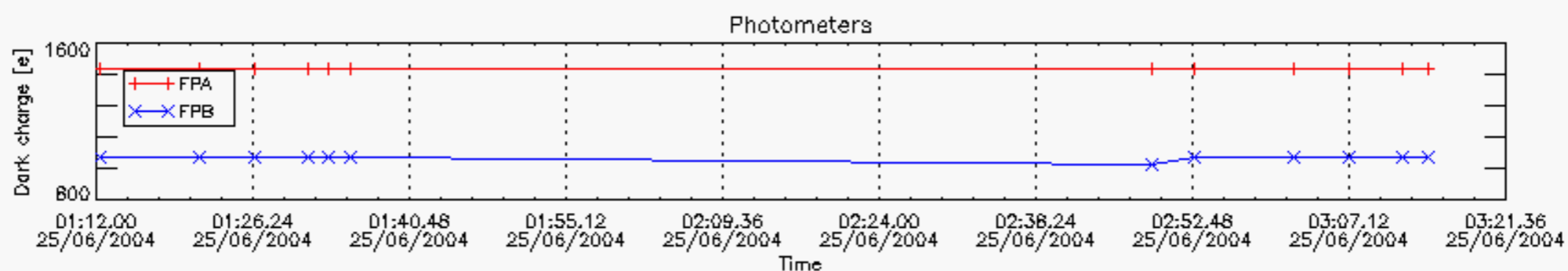
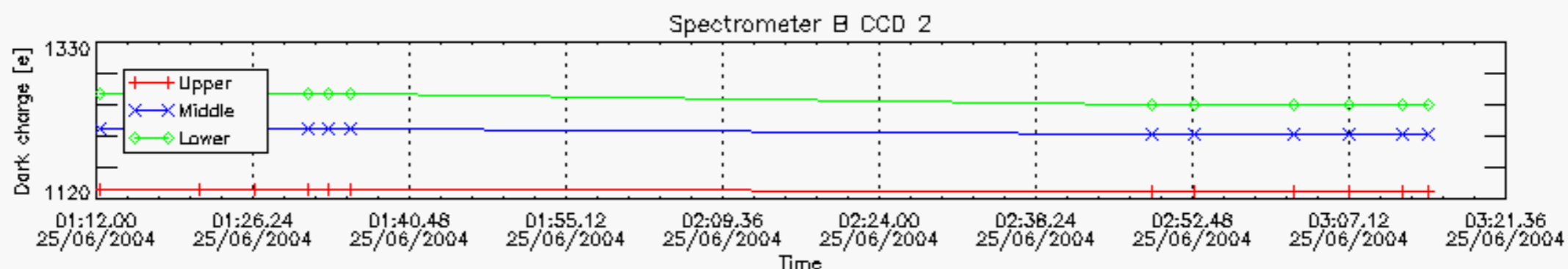
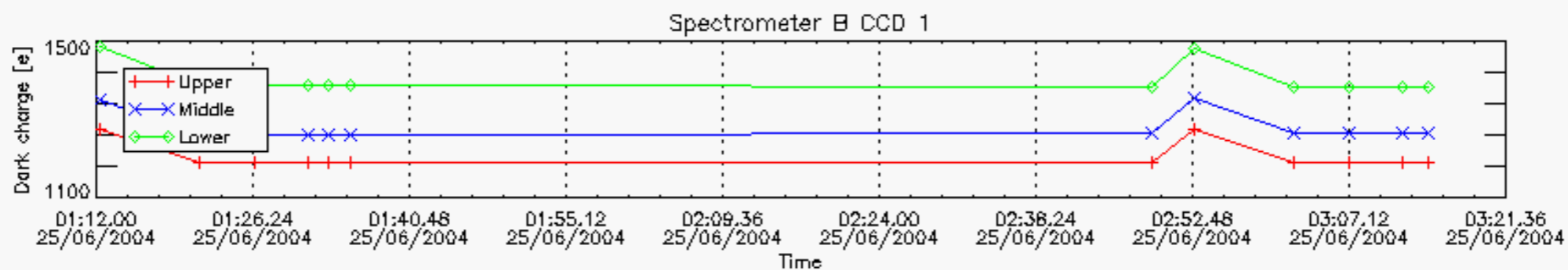
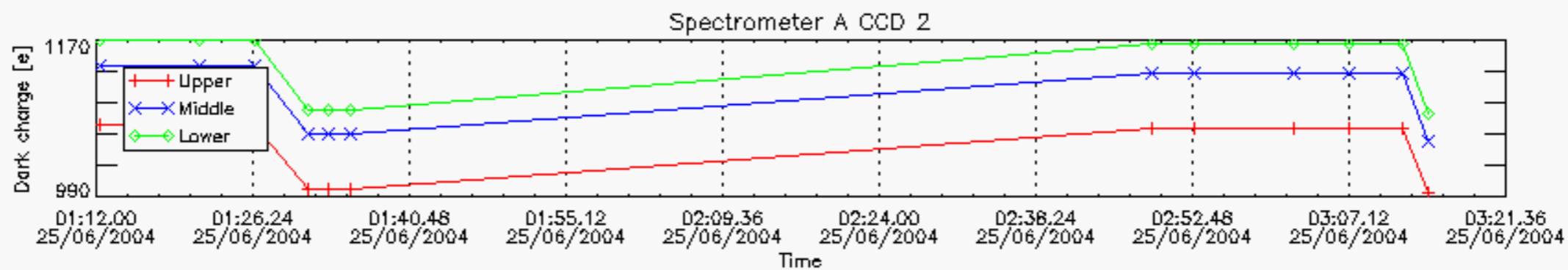
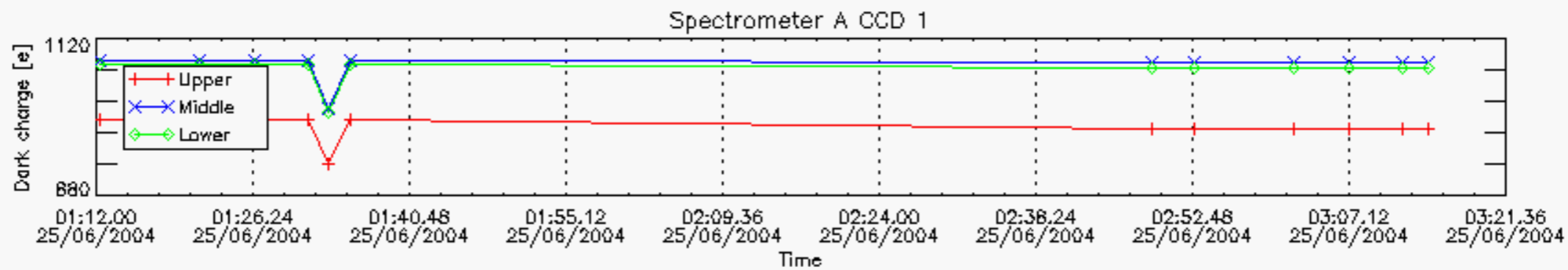


### 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

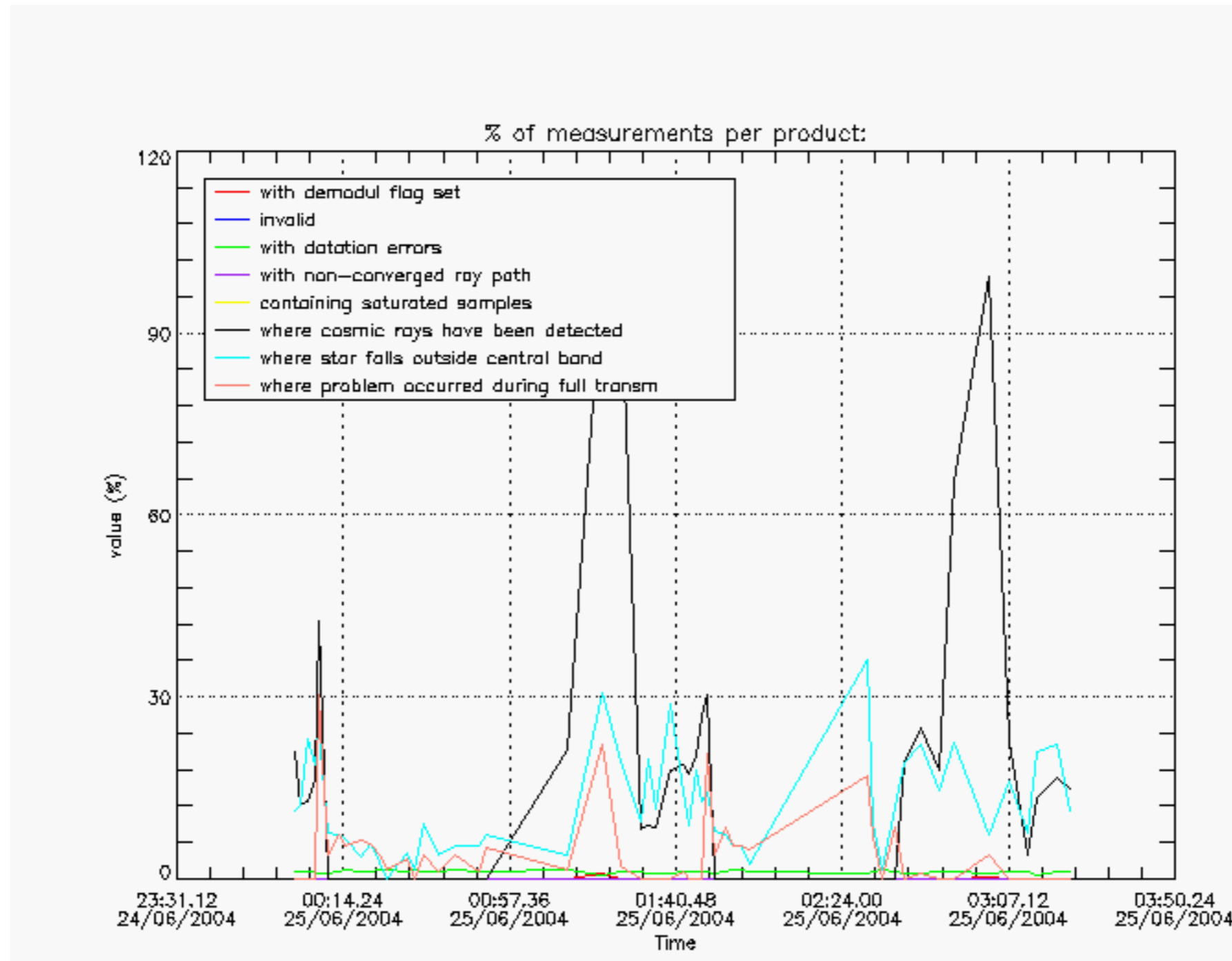
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.3	1447.8	1461.4	1446.8
St. deviation:	3.5609	4.7249	6.4468	7.6578
Maximum:	1506.0	1534.0	1503.0	1498.0
Minimum:	1449.0	1439.0	1448.0	1420.0
Number of data:	16800.	16800.	38650.	38650.

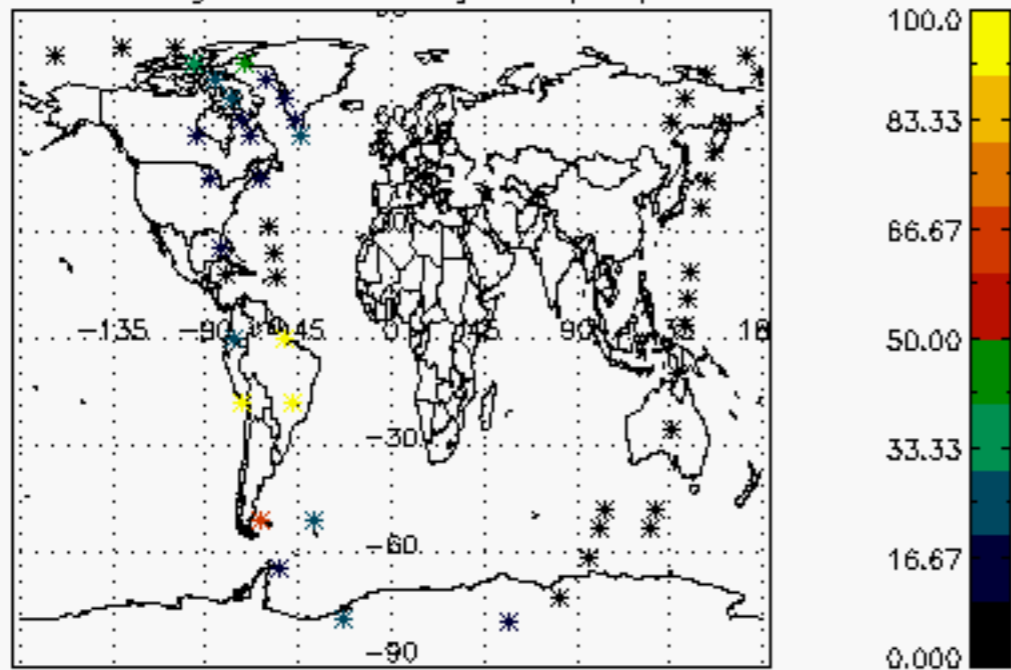




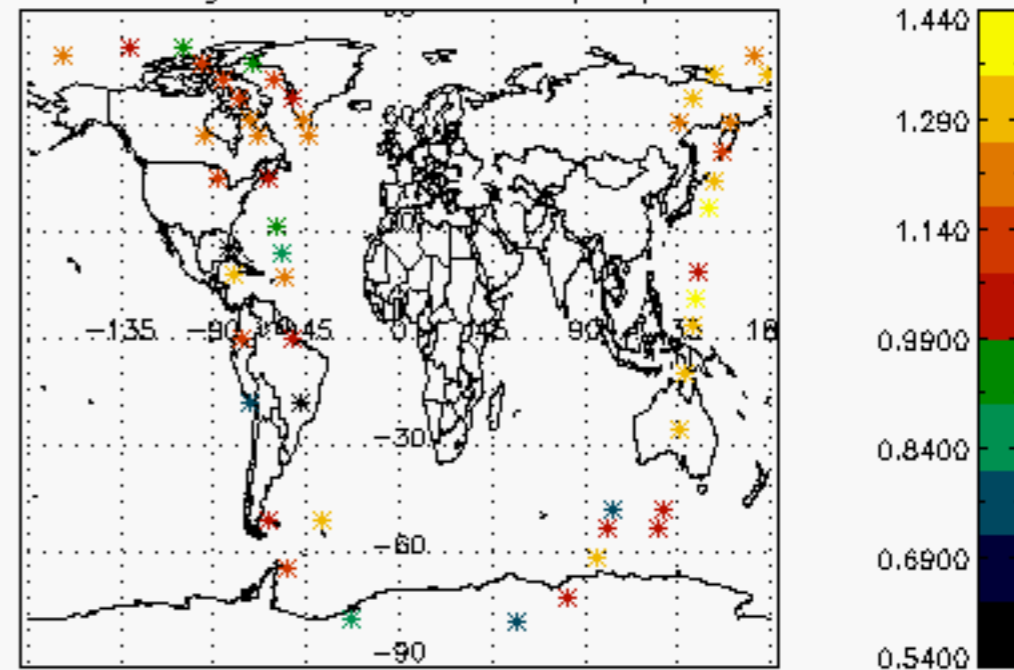




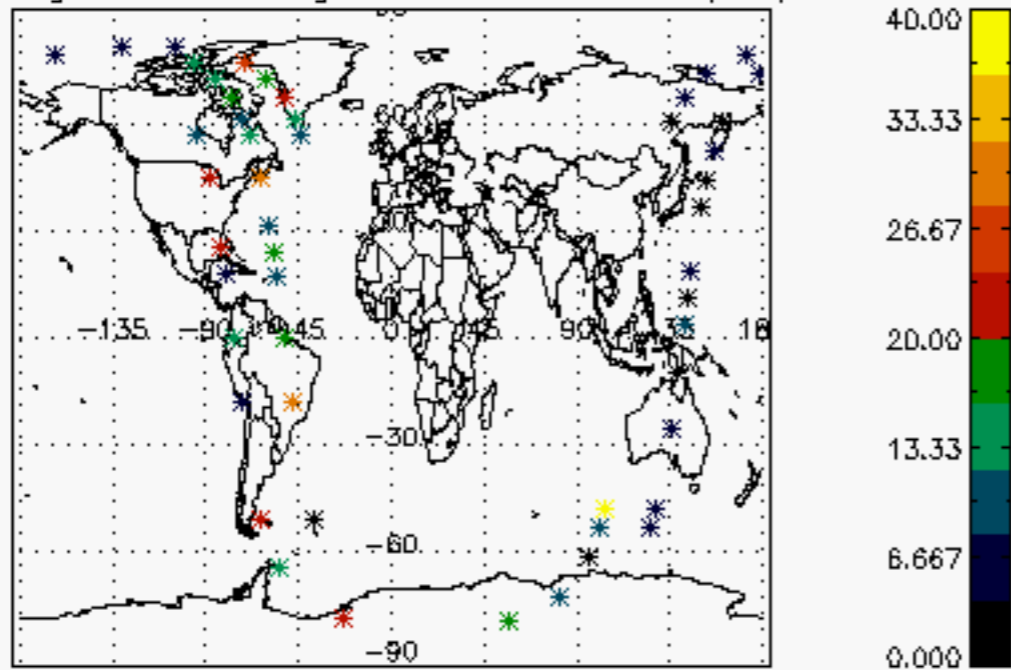
Percentage of cosmic ray hits per profile



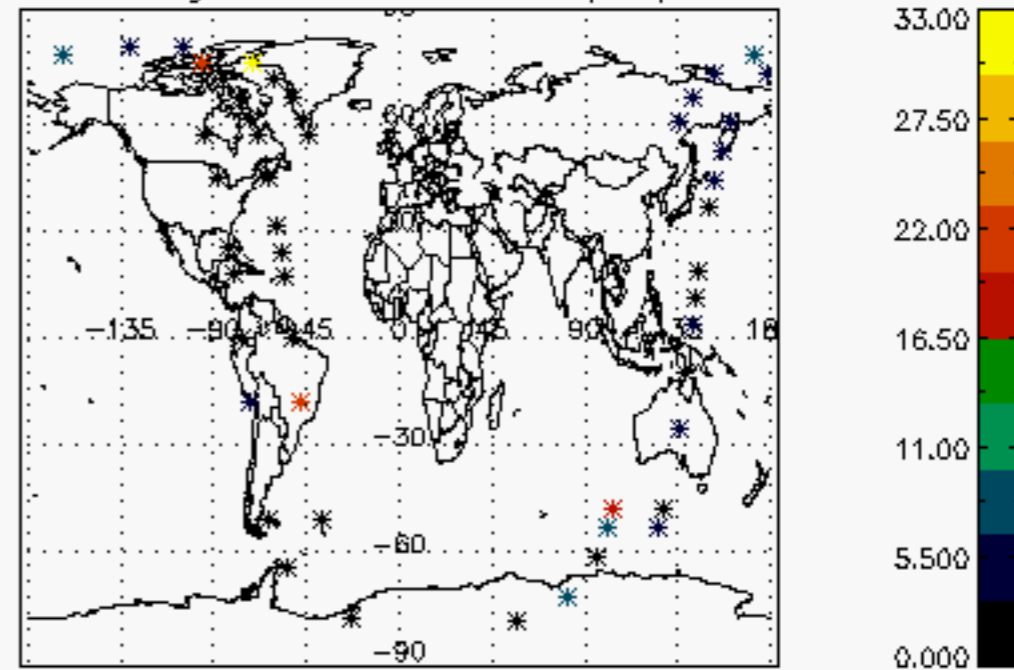
Percentage of datation errors per profile



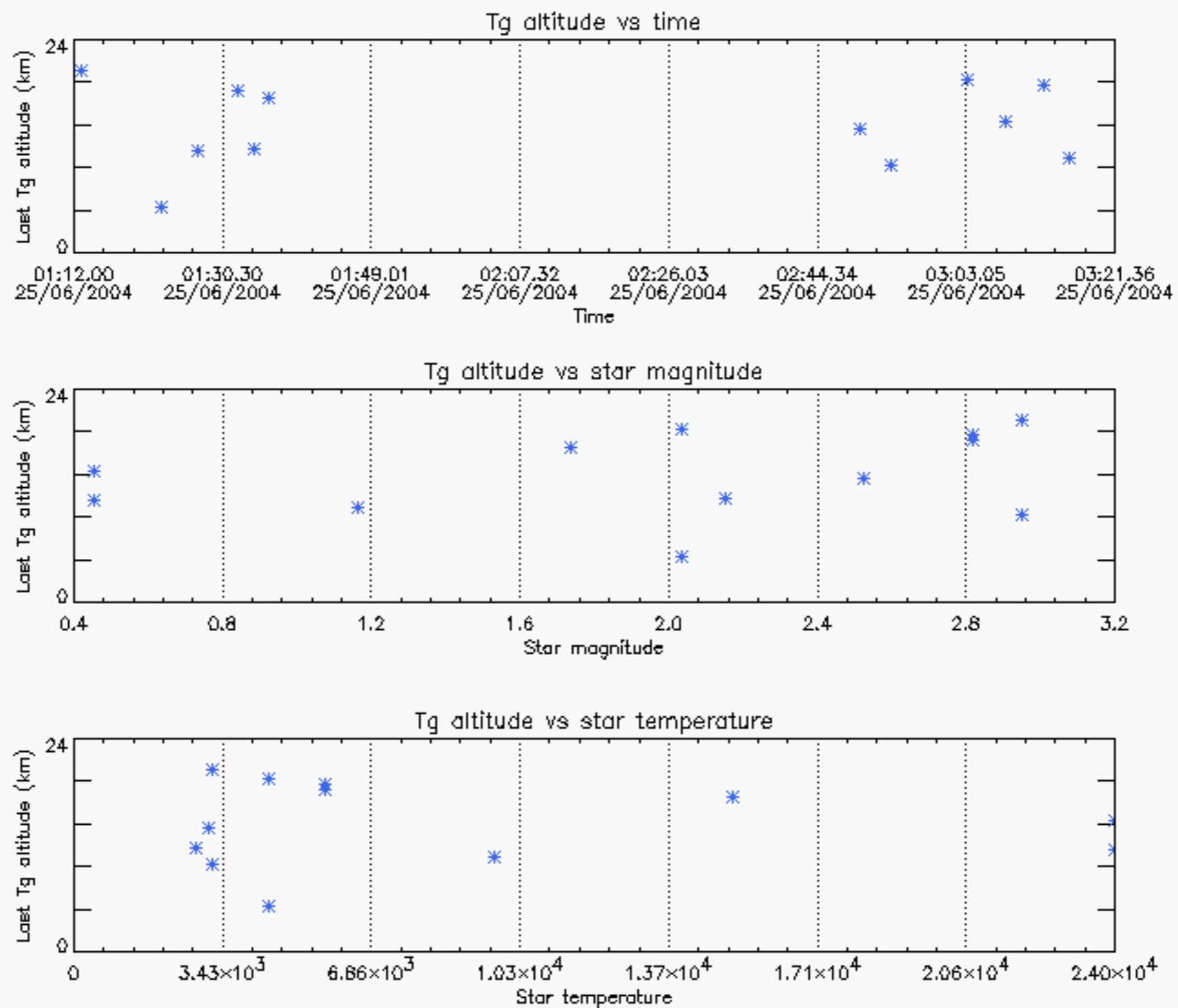
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

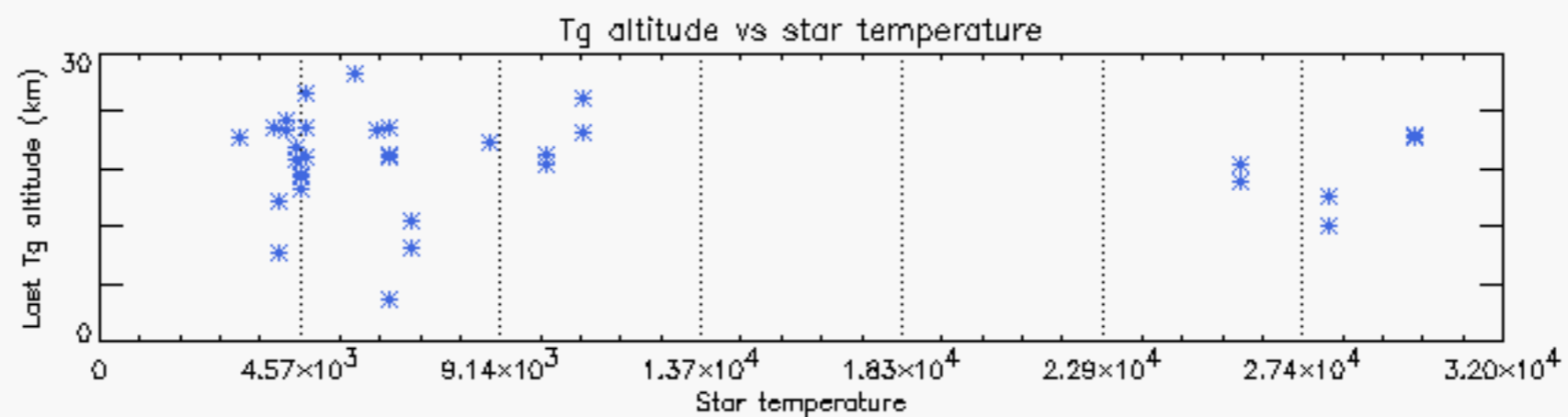
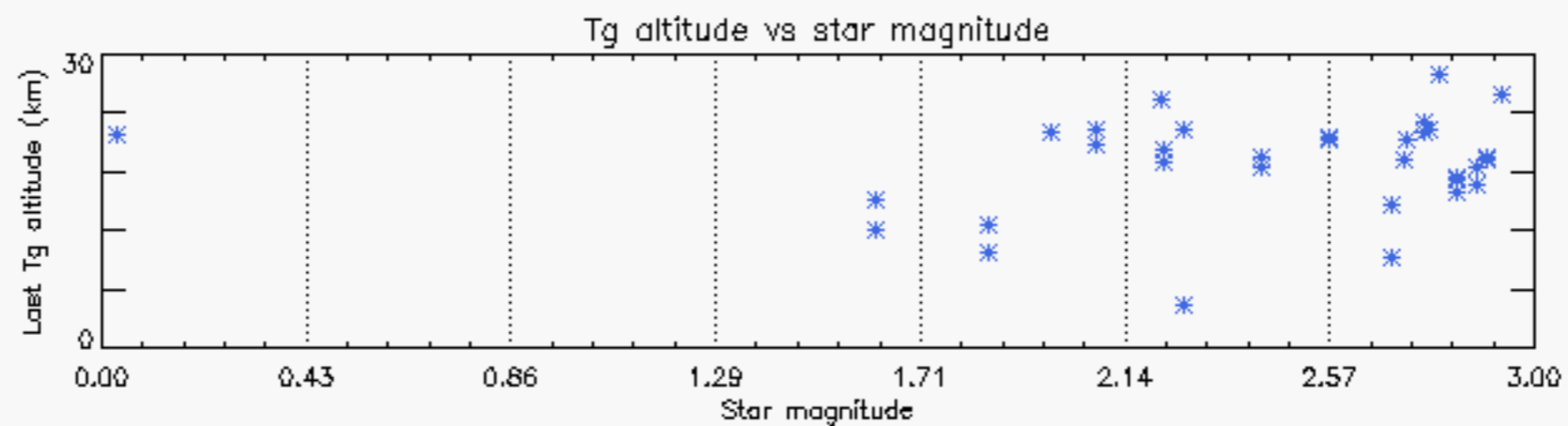
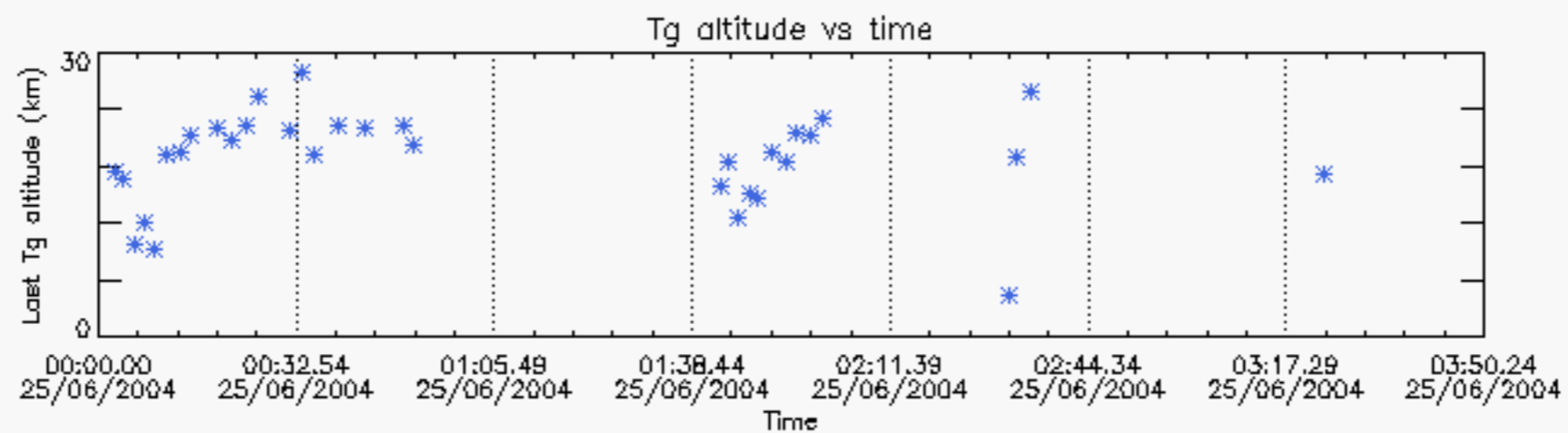


Tangent altitude at which the star is lost

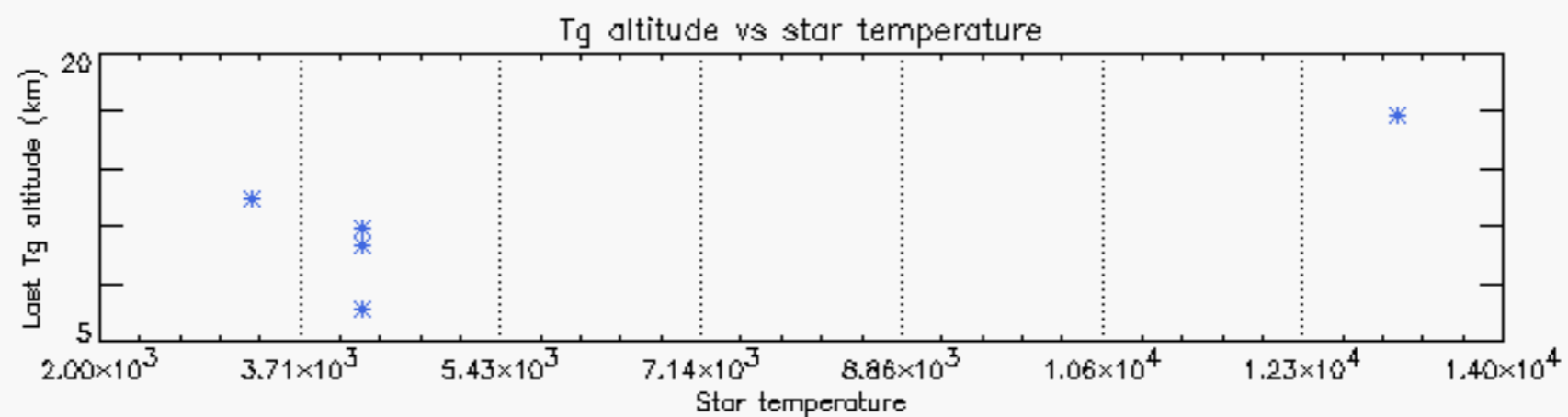
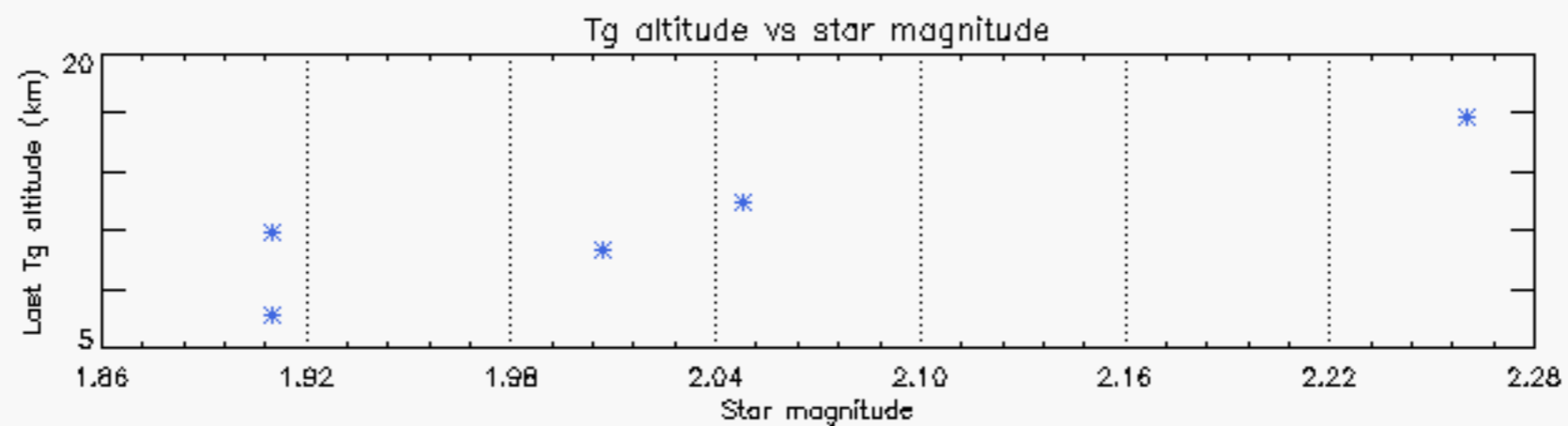
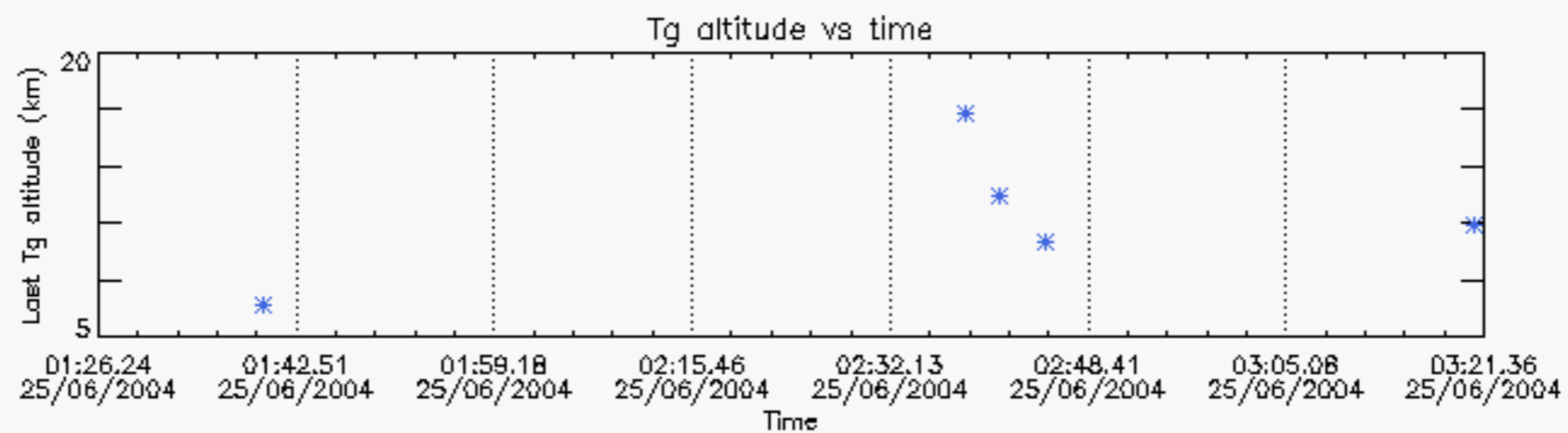




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20040601\_060933\_000061532027\_00206\_11783\_0854.N1

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 2;-4334.4; 01-JUN-2004 06:10:49; Bright; 42.5; 98; 13Zet Oph ; 2.57; 30000;occ; 85; 0;11783  
 3;-4203.2; 01-JUN-2004 06:13:00; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;11783  
 4;-4022.5; 01-JUN-2004 06:16:01; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;11783  
 5;-3779.7; 01-JUN-2004 06:20:04; Bright; 38.0; 3; 16Alp Boo ;-0.05; 4250;occ; 76; 0;11783  
 6;-3664.8; 01-JUN-2004 06:21:59; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;11783  
 7;-3473.2; 01-JUN-2004 06:25:10; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;11783  
 8;-3268.2; 01-JUN-2004 06:28:35; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;11783  
 9;-3159.4; 01-JUN-2004 06:30:24; Bright; 37.0; 55; 79Zet UMa ; 2.06; 10200;occ; 74; 0;11783  
 10;-3034.8; 01-JUN-2004 06:32:29; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;11783  
 11;-2871.4; 01-JUN-2004 06:35:12; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;11783  
 12;-2590.9; 01-JUN-2004 06:39:53; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;11783  
 13;-2413.5; 01-JUN-2004 06:42:50; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;11783  
 14;-1623.2; 01-JUN-2004 06:56:00; Dark ; 180.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 360; 0;11783  
 15;-1385.8; 01-JUN-2004 06:59:58; Dark ; 91.0; 93; 53Bet Peg ; 2.52; 3100;occ; 182; 0;11783  
 16;-1180.9; 01-JUN-2004 07:03:23; Dark ; 56.5; 140; 88Gam Peg ; 2.83; 26000;occ; 113; 0;11783  
 17;-975.5; 01-JUN-2004 07:06:48; Dark ; 89.0; 90; 54Alp Peg ; 2.49; 11000;occ; 178; 0;11783  
 18;-639.9; 01-JUN-2004 07:12:24; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;11783  
 19;-471.2; 01-JUN-2004 07:15:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11783  
 20;-238.3; 01-JUN-2004 07:19:05; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;11783  
 21;-111.7; 01-JUN-2004 07:21:12; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;11783  
 22; 83.3; 01-JUN-2004 07:24:27; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;11784  
 23; 196.7; 01-JUN-2004 07:26:20; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;11784  
 24; 492.8; 01-JUN-2004 07:31:16; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11784  
 25; 707.4; 01-JUN-2004 07:34:51; Dark ; 51.5; 43; Alp TrA ; 1.91; 4250;occ; 103; 0;11784  
 26; 831.3; 01-JUN-2004 07:36:55; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11784  
 27; 937.5; 01-JUN-2004 07:38:41; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;11784  
 28; 1038.8; 01-JUN-2004 07:40:22; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;11784  
 29; 1146.6; 01-JUN-2004 07:42:10; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;11784  
 30; 1252.0; 01-JUN-2004 07:43:56; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;11784  
 31; 1373.5; 01-JUN-2004 07:45:57; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;11784  
 32; 1498.2; 01-JUN-2004 07:48:02; Bright; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;11784  
 33; 1590.3; 01-JUN-2004 07:49:34; Bright; 47.5; 86; 35Eta Oph ; 2.43; 10200;occ; 95; 0;11784  
 34; 1701.5; 01-JUN-2004 07:51:25; Bright; 42.0; 98; 13Zet Oph ; 2.57; 30000;occ; 84; 0;11784

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 2;-4022.3; 01-JUN-2004 07:56:37; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;11784  
 3;-3779.4; 01-JUN-2004 08:00:40; Bright; 36.0; 3; 16Alp Boo ;-0.05; 4250;occ; 72; 0;11784  
 4;-3664.5; 01-JUN-2004 08:02:35; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;11784  
 5;-3473.0; 01-JUN-2004 08:05:46; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;11784  
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 7;-3159.2; 01-JUN-2004 08:11:00; Bright; 36.5; 55; 79Zet UMa ; 2.06; 10200;occ; 73; 0;11784  
 8;-3035.3; 01-JUN-2004 08:13:04; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;11784  
 9;-2871.6; 01-JUN-2004 08:15:48; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;11784  
 10;-2590.9; 01-JUN-2004 08:20:29; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;11784  
 11;-2413.8; 01-JUN-2004 08:23:26; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;11784  
 12;-1624.8; 01-JUN-2004 08:36:35; Dark ; 180.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 360; 0;11784  
 13;-1385.0; 01-JUN-2004 08:40:34; Dark ; 94.0; 93; 53Bet Peg ; 2.52; 3100;occ; 188; 0;11784  
 14;-1180.3; 01-JUN-2004 08:43:59; Dark ; 54.5; 140; 88Gam Peg ; 2.83; 26000;occ; 109; 0;11784  
 15;-974.1; 01-JUN-2004 08:47:25; Dark ; 87.5; 90; 54Alp Peg ; 2.49; 11000;occ; 175; 0;11784  
 16;-639.4; 01-JUN-2004 08:53:00; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;11784  
 17;-471.0; 01-JUN-2004 08:55:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11784  
 18;-238.2; 01-JUN-2004 08:59:41; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;11784  
 19;-111.3; 01-JUN-2004 09:01:48; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;11784  
 20; 84.2; 01-JUN-2004 09:05:04; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;11785  
 21; 197.4; 01-JUN-2004 09:06:57; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11785  
 22; 493.5; 01-JUN-2004 09:11:53; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;11785  
 23; 707.7; 01-JUN-2004 09:15:27; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;11785  
 24; 831.2; 01-JUN-2004 09:17:31; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;11785  
 25; 938.0; 01-JUN-2004 09:19:17; Dark ; 42.5; 147; Alp Ara ; 2.88; 26000;occ; 85; 0;11785  
 26; 1039.2; 01-JUN-2004 09:20:59; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;11785  
 27; 1146.7; 01-JUN-2004 09:22:46; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;11785  
 28; 1252.1; 01-JUN-2004 09:24:32; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;11785  
 29; 1373.6; 01-JUN-2004 09:26:33; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;11785  
 30; 1498.2; 01-JUN-2004 09:28:38; Bright; 38.5; 80; 7Del Sco ; 2.32; 30000;occ; 77; 0;11785  
 31; 1590.3; 01-JUN-2004 09:30:10; Bright; 46.5; 86; 35Eta Oph ; 2.43; 10200;occ; 93; 0;11785  
 32; 1701.3; 01-JUN-2004 09:32:01; Bright; 42.5; 98; 13Zet Oph ; 2.57; 30000;occ; 85; 0;11785



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1;	-4299.1;	01-JUN-2004	09:32:36;	Bright;	43.0;	98;	13Zet Oph	;	2.57;	30000;occ;	86;	71;11785	
2;	-4203.3;	01-JUN-2004	09:34:12;	Bright;	40.0;	120;	1Del Oph	;	2.73;	3200;occ;	80;	0;11785	
3;	-4022.5;	01-JUN-2004	09:37:13;	Bright;	37.5;	102;	24Alp Ser	;	2.60;	4250;occ;	75;	0;11785	
4;	-3779.4;	01-JUN-2004	09:41:16;	Bright;	38.5;	3;	16Alp Boo	;	-0.05;	4250;occ;	77;	0;11785	
5;	-3669.2;	01-JUN-2004	09:43:06;	Bright;	38.5;	67;	5Alp CrB	;	2.22;	11000;occ;	77;	0;11785	
6;	-3473.5;	01-JUN-2004	09:46:22;	Bright;	36.0;	180;	27Gam Boo	;	3.04;	8000;occ;	72;	0;11785	
7;	-3267.9;	01-JUN-2004	09:49:47;	Bright;	38.5;	39;	85Eta UMa	;	1.85;	24000;occ;	77;	0;11785	
8;	-3159.9;	01-JUN-2004	09:51:35;	Bright;	37.5;	55;	79Zet UMa	;	2.06;	10200;occ;	75;	0;11785	
9;	-3035.6;	01-JUN-2004	09:53:40;	Bright;	39.5;	119;	14Eta Dra	;	2.73;	4700;occ;	79;	0;11785	
10;	-2871.8;	01-JUN-2004	09:56:23;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;11785	
11;	-2591.2;	01-JUN-2004	10:01:04;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;11785	
12;	-2414.1;	01-JUN-2004	10:04:01;	Bright;	48.5;	89;	5Alp Cep	;	2.45;	8000;occ;	97;	0;11785	
13;	-2271.4;	01-JUN-2004	10:06:24;	Bright;	83.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	166;	0;11785	
14;	-2109.3;	01-JUN-2004	10:09:06;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;11785	
15;	-1642.5;	01-JUN-2004	10:16:53;	Bright;	46.5;	53;	43Bet And	;	2.05;	3300;occ;	93;	0;11785	
16;	-1479.3;	01-JUN-2004	10:19:36;	Dark	;	57.5;	58;	21Alp And	;	2.07;	11000;occ;	115;	0;11785
17;	-1384.9;	01-JUN-2004	10:21:10;	Dark	;	92.0;	93;	53Bet Peg	;	2.52;	3100;occ;	184;	0;11785
18;	-1179.9;	01-JUN-2004	10:24:35;	Dark	;	54.5;	140;	88Gam Peg	;	2.83;	26000;occ;	109;	0;11785
19;	-972.5;	01-JUN-2004	10:28:03;	Dark	;	90.5;	90;	54Alp Peg	;	2.49;	11000;occ;	181;	0;11785
20;	-639.0;	01-JUN-2004	10:33:36;	Dark	;	50.0;	52;	16Bet Cet	;	2.04;	4500;occ;	100;	0;11785
21;	-470.9;	01-JUN-2004	10:36:24;	Dark	;	59.5;	0;	;	;	0.00;	0;occ;	119;	0;11785
22;	-237.6;	01-JUN-2004	10:40:18;	Dark	;	41.5;	84;	Alp Phe	;	2.40;	4500;occ;	83;	0;11785
23;	-111.6;	01-JUN-2004	10:42:24;	Dark	;	51.0;	9;	Alp Eri	;	0.45;	24000;occ;	102;	0;11785
24;	84.9;	01-JUN-2004	10:45:40;	Dark	;	50.0;	63;	Bet Gru	;	2.15;	2800;occ;	100;	0;11786
25;	198.2;	01-JUN-2004	10:47:34;	Dark	;	47.5;	31;	Alp Gru	;	1.73;	15200;occ;	95;	0;11786
26;	493.7;	01-JUN-2004	10:52:29;	Dark	;	45.5;	45;	Alp Pav	;	1.94;	26000;occ;	91;	0;11786
27;	707.4;	01-JUN-2004	10:56:03;	Dark	;	42.0;	43;	Alp TrA	;	1.91;	4250;occ;	84;	0;11786
28;	830.9;	01-JUN-2004	10:58:06;	Dark	;	39.5;	134;	Bet TrA	;	2.81;	6600;occ;	79;	0;11786
29;	938.1;	01-JUN-2004	10:59:53;	Dark	;	41.5;	147;	Alp Ara	;	2.88;	26000;occ;	83;	0;11786
30;	1039.3;	01-JUN-2004	11:01:35;	Dark	;	51.5;	40;	The Sco	;	1.86;	7100;occ;	103;	0;11786
31;	1146.9;	01-JUN-2004	11:03:22;	Dark	;	46.0;	25;	35Lam Sco	;	1.62;	28000;occ;	92;	0;11786
32;	1252.1;	01-JUN-2004	11:05:07;	Dark	;	50.0;	75;	26Eps Sco	;	2.29;	4250;occ;	100;	0;11786
33;	1373.3;	01-JUN-2004	11:07:09;	Dark	;	44.0;	136;	23Tau Sco	;	2.82;	30000;occ;	88;	0;11786
34;	1497.9;	01-JUN-2004	11:09:13;	Bright;	41.5;	80;	7Del Sco	;	2.32;	30000;occ;	83;	0;11786	
35;	1590.0;	01-JUN-2004	11:10:45;	Bright;	45.5;	86;	35Eta Oph	;	2.43;	10200;occ;	91;	0;11786	

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1;	-4431.9;	01-JUN-2004	11:10:59;	Bright;	46.0;	86;	35Eta Oph	;	2.43;	10200;occ;	92;	28;11786	
2;	-4335.0;	01-JUN-2004	11:12:36;	Bright;	44.0;	98;	13Zet Oph	;	2.57;	30000;occ;	88;	0;11786	
3;	-4203.7;	01-JUN-2004	11:14:47;	Bright;	41.5;	120;	1Del Oph	;	2.73;	3200;occ;	83;	0;11786	
4;	-4023.0;	01-JUN-2004	11:17:48;	Bright;	38.0;	102;	24Alp Ser	;	2.60;	4250;occ;	76;	0;11786	
5;	-3779.8;	01-JUN-2004	11:21:51;	Bright;	40.5;	3;	16Alp Boo	;	-0.05;	4250;occ;	81;	0;11786	
6;	-3669.5;	01-JUN-2004	11:23:42;	Bright;	40.0;	67;	5Alp CrB	;	2.22;	11000;occ;	80;	0;11786	
7;	-3474.4;	01-JUN-2004	11:26:57;	Bright;	37.0;	180;	27Gam Boo	;	3.04;	8000;occ;	74;	0;11786	
8;	-3268.7;	01-JUN-2004	11:30:23;	Bright;	38.5;	39;	85Eta UMa	;	1.85;	24000;occ;	77;	0;11786	
9;	-3162.0;	01-JUN-2004	11:32:09;	Bright;	40.5;	55;	79Zet UMa	;	2.06;	10200;occ;	81;	0;11786	
10;	-3036.8;	01-JUN-2004	11:34:14;	Bright;	41.0;	119;	14Eta Dra	;	2.73;	4700;occ;	82;	0;11786	
11;	-2874.7;	01-JUN-2004	11:36:57;	Bright;	41.5;	60;	7Bet UMi	;	2.08;	3950;occ;	83;	0;11786	
12;	-2592.3;	01-JUN-2004	11:41:39;	Bright;	39.0;	49;	1Alp UMi	;	1.99;	6300;occ;	78;	0;11786	
13;	-2415.0;	01-JUN-2004	11:44:36;	Bright;	47.5;	89;	5Alp Cep	;	2.45;	8000;occ;	95;	0;11786	
14;	-2272.9;	01-JUN-2004	11:46:58;	Bright;	83.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	166;	0;11786	
15;	-2109.8;	01-JUN-2004	11:49:41;	Bright;	38.5;	76;	27Gam Cas	;	2.30;	30000;occ;	77;	0;11786	
16;	-1642.0;	01-JUN-2004	11:57:29;	Bright;	47.5;	53;	43Bet And	;	2.05;	3300;occ;	95;	0;11786	
17;	-1479.1;	01-JUN-2004	12:00:12;	Dark	;	57.0;	58;	21Alp And	;	2.07;	11000;occ;	114;	0;11786
18;	-1384.1;	01-JUN-2004	12:01:47;	Dark	;	85.0;	93;	53Bet Peg	;	2.52;	3100;occ;	170;	0;11786
19;	-1179.0;	01-JUN-2004	12:05:12;	Dark	;	54.0;	140;	88Gam Peg	;	2.83;	26000;occ;	108;	0;11786
20;	-970.9;	01-JUN-2004	12:08:40;	Dark	;	89.5;	90;	54Alp Peg	;	2.49;	11000;occ;	179;	0;11786
21;	-639.4;	01-JUN-2004	12:14:12;	Dark	;	52.5;	52;	16Bet Cet	;	2.04;	4500;occ;	105;	0;11786
22;	-470.6;	01-JUN-2004	12:17:01;	Dark	;	59.5;	0;	;	;	0.00;	0;occ;	119;	0;11786
23;	-237.6;	01-JUN-2004	12:20:54;	Dark	;	45.5;	84;	Alp Phe	;	2.40;	4500;occ;	91;	0;11786
24;	-111.0;	01-JUN-2004	12:23:00;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;11786
25;	85.5;	01-JUN-2004	12:26:17;	Dark	;	49.0;	63;	Bet Gru	;	2.15;	2800;occ;	98;	0;11787
26;	198.9;	01-JUN-2004	12:28:10;	Dark	;	48.5;	31;	Alp Gru	;	1.73;	15200;occ;	97;	0;11787
27;	494.1;	01-JUN-2004	12:33:05;	Dark	;	44.0;	45;	Alp Pav	;	1.94;	26000;occ;	88;	0;11787
28;	707.7;	01-JUN-2004	12:36:39;	Dark	;	42.5;	43;	Alp TrA	;	1.91;	4250;occ;	85;	0;11787
29;	831.2;	01-JUN-2004	12:38:42;	Dark	;	39.0;	134;	Bet TrA	;	2.81;	6600;occ;	78;	0;11787
30;	938.2;	01-JUN-2004	12:40:29;	Dark	;	41.0;	147;	Alp Ara	;	2.88;	26000;occ;	82;	0;11787
31;	1039.4;	01-JUN-2004	12:42:11;	Dark	;	49.0;	40;	The Sco	;	1.86;	7100;occ;	98;	0;11787

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33; 1252.1; 01-JUN-2004 12:45:43; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;11787
34; 1373.0; 01-JUN-2004 12:47:44; Dark ; 46.0; 136; 23Tau Sco ; 2.82; 30000;occ; 92; 0;11787
35; 1497.1; 01-JUN-2004 12:49:48; Bright; 41.0; 80; 7Del Sco ; 2.32; 30000;occ; 82; 0;11787
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2;-4335.7; 01-JUN-2004 12:53:11; Bright; 42.5; 98; 13Zet Oph ; 2.57; 30000;occ; 85; 0;11787
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22;	-79.5;	10-JUN-2004	16:01:59;	Dark	;	49.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	98;	0;	11917
23;	76.4;	10-JUN-2004	16:04:35;	Dark	;	69.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	138;	0;	11918
24;	325.1;	10-JUN-2004	16:08:43;	Dark	;	51.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	102;	0;	11918
25;	581.1;	10-JUN-2004	16:12:59;	Dark	;	44.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	88;	0;	11918
26;	733.7;	10-JUN-2004	16:15:32;	Dark	;	39.5;	43;	Alp	TrA	;	1.91;	4250;	occ;	79;	0;	11918
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2	-4421.9	17-JUN-2004	01:04:41	Bright	40.5	86	35Eta Oph	2.43	10200	occ	81	0;12009
3	-4320.3	17-JUN-2004	01:06:23	Bright	41.5	98	13Zet Oph	2.57	30000	occ	83	0;12009
4	-4194.2	17-JUN-2004	01:08:29	Bright	40.0	120	1Del Oph	2.73	3200	occ	80	0;12009
5	-4008.4	17-JUN-2004	01:11:35	Bright	37.5	102	24Alp Ser	2.60	4250	occ	75	0;12009
6	-3885.7	17-JUN-2004	01:13:37	Bright	45.5	59	55Alp Oph	2.08	8900	occ	91	0;12009
7	-3762.6	17-JUN-2004	01:15:41	Bright	40.5	127	27Bet Her	2.78	4700	occ	81	0;12009
8	-3669.2	17-JUN-2004	01:17:14	Bright	40.5	67	5Alp CrB	2.22	11000	occ	81	0;12009
9	-3582.5	17-JUN-2004	01:18:41	Bright	39.5	133	40Zet Her	2.81	6000	occ	79	0;12009
10	-3428.3	17-JUN-2004	01:21:15	Bright	42.0	180	27Gam Boo	3.04	8000	occ	84	0;12009
11	-3198.0	17-JUN-2004	01:25:05	Bright	40.5	39	85Eta UMa	1.85	24000	occ	81	0;12009
12	-3078.8	17-JUN-2004	01:27:04	Bright	38.5	119	14Eta Dra	2.73	4700	occ	77	0;12009
13	-2867.1	17-JUN-2004	01:30:36	Bright	35.0	60	7Bet UMi	2.08	3950	occ	70	0;12009
14	-2591.6	17-JUN-2004	01:35:12	Bright	37.0	49	1Alp UMi	1.99	6300	occ	74	0;12009
15	-2166.6	17-JUN-2004	01:42:17	Bright	65.0	74	11Bet Cas	2.27	6600	occ	130	0;12009
16	-2081.8	17-JUN-2004	01:43:41	Bright	43.0	68	18Alp Cas	2.22	4500	occ	86	0;12009
17	-1974.8	17-JUN-2004	01:45:28	Bright	53.0	160	23Gam Per	2.93	4700	occ	106	0;12009
18	-1767.3	17-JUN-2004	01:48:56	Bright	42.5	73	57Gam1And	2.26	13100	occ	85	0;12009
19	-1627.5	17-JUN-2004	01:51:16	Dark	63.0	53	43Bet And	2.05	3300	occ	126	0;12009
20	-1412.0	17-JUN-2004	01:54:51	Dark	52.5	50	13Alp Ari	2.01	4250	occ	105	0;12009
21	-1126.7	17-JUN-2004	01:59:37	Dark	43.5	94	92Alp Cet	2.53	3100	occ	87	0;12009
22	-1003.3	17-JUN-2004	02:01:40	Dark	82.5	140	88Gam Peg	2.83	26000	occ	165	0;12009
23	-454.1	17-JUN-2004	02:10:49	Dark	59.5	0		0.00	0	occ	119	0;12009
24	-49.4	17-JUN-2004	02:17:34	Dark	53.0	9	Alp Eri	0.45	24000	occ	106	0;12009
25	227.0	17-JUN-2004	02:22:10	Dark	78.0	18	24Alp PsA	1.17	9700	occ	156	0;12010
26	416.4	17-JUN-2004	02:25:20	Dark	49.5	31	Alp Gru	1.73	15200	occ	99	0;12010
27	636.8	17-JUN-2004	02:29:00	Dark	47.5	45	Alp Pav	1.94	26000	occ	95	0;12010
28	746.6	17-JUN-2004	02:30:50	Dark	44.5	43	Alp TrA	1.91	4250	occ	89	0;12010
29	931.5	17-JUN-2004	02:33:55	Dark	47.5	141	Bet Ara	2.84	4600	occ	95	0;12010
30	1014.7	17-JUN-2004	02:35:18	Dark	40.5	147	Alp Ara	2.88	26000	occ	81	0;12010
31	1119.5	17-JUN-2004	02:37:03	Dark	45.0	40	The Sco	1.86	7100	occ	90	0;12010
32	1211.7	17-JUN-2004	02:38:35	Dark	51.0	38	20Eps Sgr	1.84	11000	occ	102	0;12010
33	1307.3	17-JUN-2004	02:40:10	Dark	41.5	75	26Eps Sco	2.29	4250	occ	83	0;12010
34	1435.1	17-JUN-2004	02:42:18	Bright	55.5	155	41Pi Sgr	2.90	6600	occ	111	0;12010
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2	-4318.5	17-JUN-2004	02:47:01	Bright	40.0	98	13Zet Oph	2.57	30000	occ	80	0;12010
3	-4192.3	17-JUN-2004	02:49:07	Bright	38.5	120	1Del Oph	2.73	3200	occ	77	0;12010
4	-4008.8	17-JUN-2004	02:52:10	Bright	38.0	102	24Alp Ser	2.60	4250	occ	76	0;12010
5	-3885.8	17-JUN-2004	02:54:13	Bright	42.5	59	55Alp Oph	2.08	8900	occ	85	0;12010
6	-3762.7	17-JUN-2004	02:56:16	Bright	38.0	127	27Bet Her	2.78	4700	occ	76	0;12010
7	-3667.4	17-JUN-2004	02:57:52	Bright	39.0	67	5Alp CrB	2.22	11000	occ	78	0;12010
8	-3582.8	17-JUN-2004	02:59:16	Bright	40.5	133	40Zet Her	2.81	6000	occ	81	0;12010
9	-3425.6	17-JUN-2004	03:01:54	Bright	36.0	180	27Gam Boo	3.04	8000	occ	72	0;12010
10	-3198.3	17-JUN-2004	03:05:41	Bright	40.5	39	85Eta UMa	1.85	24000	occ	81	0;12010
11	-3078.8	17-JUN-2004	03:07:40	Bright	34.5	119	14Eta Dra	2.73	4700	occ	69	0;12010
12	-2867.1	17-JUN-2004	03:11:12	Bright	34.5	60	7Bet UMi	2.08	3950	occ	69	0;12010
13	-2591.6	17-JUN-2004	03:15:48	Bright	37.5	49	1Alp UMi	1.99	6300	occ	75	0;12010
14	-2167.2	17-JUN-2004	03:22:52	Bright	46.5	74	11Bet Cas	2.27	6600	occ	93	0;12010
15	-2082.0	17-JUN-2004	03:24:17	Bright	46.0	68	18Alp Cas	2.22	4500	occ	92	0;12010
16	-1974.9	17-JUN-2004	03:26:04	Bright	37.0	160	23Gam Per	2.93	4700	occ	74	0;12010
17	-1767.3	17-JUN-2004	03:29:32	Bright	39.5	73	57Gam1And	2.26	13100	occ	79	0;12010
18	-1625.7	17-JUN-2004	03:31:53	Dark	57.0	53	43Bet And	2.05	3300	occ	114	0;12010
19	-1412.0	17-JUN-2004	03:35:27	Dark	54.0	50	13Alp Ari	2.01	4250	occ	108	0;12010
20	-1128.2	17-JUN-2004	03:40:11	Dark	50.0	94	92Alp Cet	2.53	3100	occ	100	0;12010
21	-1002.3	17-JUN-2004	03:42:17	Dark	79.5	140	88Gam Peg	2.83	26000	occ	159	0;12010
22	-553.8	17-JUN-2004	03:49:45	Dark	59.5	0		0.00	0	occ	119	0;12010
23	-452.6	17-JUN-2004	03:51:27	Dark	61.5	52	16Bet Cet	2.04	4500	occ	123	0;12010
24	-48.4	17-JUN-2004	03:58:11	Dark	51.0	9	Alp Eri	0.45	24000	occ	102	0;12010
25	229.3	17-JUN-2004	04:02:48	Dark	73.5	18	24Alp PsA	1.17	9700	occ	147	0;12011
26	417.2	17-JUN-2004	04:05:56	Dark	50.0	31	Alp Gru	1.73	15200	occ	100	0;12011
27	638.6	17-JUN-2004	04:09:38	Dark	44.5	45	Alp Pav	1.94	26000	occ	89	0;12011
28	746.9	17-JUN-2004	04:11:26	Dark	43.0	43	Alp TrA	1.91	4250	occ	86	0;12011
29	933.0	17-JUN-2004	04:14:32	Dark	42.5	141	Bet Ara	2.84	4600	occ	85	0;12011
30	1015.9	17-JUN-2004	04:15:55	Dark	39.0	147	Alp Ara	2.88	26000	occ	78	0;12011
31	1121.1	17-JUN-2004	04:17:40	Dark	45.5	40	The Sco	1.86	7100	occ	91	0;12011
32	1212.2	17-JUN-2004	04:19:11	Dark	46.5	38	20Eps Sgr	1.84	11000	occ	93	0;12011
33	1308.9	17-JUN-2004	04:20:48	Dark	45.5	75	26Eps Sco	2.29	4250	occ	91	0;12011
34	1435.7	17-JUN-2004	04:22:55	Bright	54.5	155	41Pi Sgr	2.90	6600	occ	109	0;12011



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25; 3189.1; 30-JUN-2004 01:22:17; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;12195
26; 3349.1; 30-JUN-2004 01:24:57; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;12195
27; 3788.4; 30-JUN-2004 01:32:17; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;12195
28; 3889.9; 30-JUN-2004 01:33:58; Bright; 49.0; 68; 18Alp Cas ; 2.22; 4500;occ; 98; 0;12195
29; 4062.1; 30-JUN-2004 01:36:50; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;12195
30; 4164.1; 30-JUN-2004 01:38:32; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;12195
31; 4266.4; 30-JUN-2004 01:40:15; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;12195
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6; 476.5; 30-JUN-2004 02:17:41; Dark ; 66.0; 63; Bet Gru ; 2.15; 2800;occ; 132; 0;12196
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9; 972.0; 30-JUN-2004 02:25:56; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;12196
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