

# GOMOS Daily Report 01-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	02JUN2004 07:32:30
Data source version	GOMOS/4.02
Start time of products	01-JUN-2004 (01JUN2004 00:00:00)
Stop time of products	02-JUN-2004 (02JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

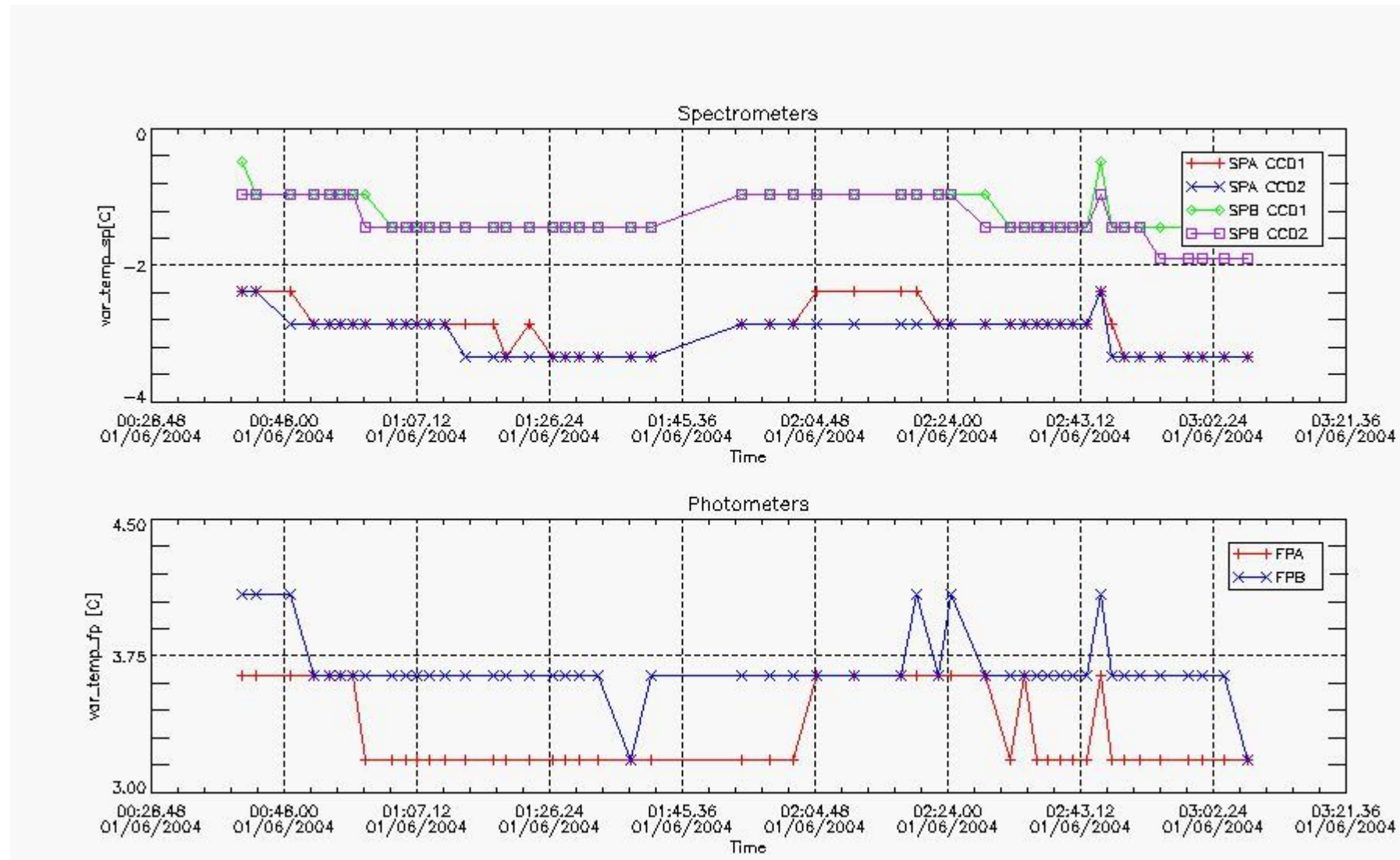
## 2. Summary of products arrived in PCF

### 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
GOM_TRA_1PNPDE20040601_004159_000000622027_00203_11780_0000.N1	01-JUN-2004 00:41:59	Dark	62.000	63	Bet Gru	2.1500	2800.0	124	11780	No
GOM_TRA_1PNPDE20040601_004351_000000502027_00203_11780_0001.N1	01-JUN-2004 00:43:51	Dark	49.500	31	Alp Gru	1.7340	15200.	99	11780	No
GOM_TRA_1PNPDE20040601_004849_000000462027_00203_11780_0002.N1	01-JUN-2004 00:48:49	Dark	46.000	45	Alp Pav	1.9400	26000.	92	11780	No
GOM_TRA_1PNPDE20040601_005223_000000522027_00203_11780_0003.N1	01-JUN-2004 00:52:23	Twilight	52.000	43	Alp TrA	1.9100	4250.0	104	11780	No
GOM_TRA_1PNPDE20040601_005427_000000422027_00203_11780_0004.N1	01-JUN-2004 00:54:27	Twilight	41.500	134	Bet TrA	2.8100	6600.0	83	11780	No
GOM_TRA_1PNPDE20040601_005614_000000432027_00203_11780_0005.N1	01-JUN-2004 00:56:14	Bright	42.500	147	Alp Ara	2.8770	26000.	85	11780	No
GOM_TRA_1PNPDE20040601_005753_000000512027_00203_11780_0006.N1	01-JUN-2004 00:57:53	Bright	50.500	40	The Sco	1.8590	7100.0	101	11780	No
GOM_TRA_1PNPDE20040601_005941_000000532027_00203_11780_0007.N1	01-JUN-2004 00:59:41	Bright	52.500	25	35Lam Sco	1.6200	28000.	105	11780	No
GOM_TRA_1PNPDE20040601_010329_000000462027_00203_11780_0000.N1	01-JUN-2004 01:03:29	Bright	46.000	136	23Tau Sco	2.8220	30000.	92	11780	No
GOM_TRA_1PNPDE20040601_010536_000000422027_00203_11780_0001.N1	01-JUN-2004 01:05:36	Bright	42.000	80	7Del Sco	2.3160	30000.	84	11780	No
GOM_TRA_1PNPDE20040601_010709_000000482027_00203_11780_0002.N1	01-JUN-2004 01:07:09	Bright	47.500	86	35Eta Oph	2.4300	10200.	95	11780	No
GOM_TRA_1PNPDE20040601_010900_000000452027_00203_11780_0003.N1	01-JUN-2004 01:09:00	Bright	44.500	98	13Zet Oph	2.5710	30000.	89	11780	No
GOM_TRA_1PNPDE20040601_011111_000000422027_00203_11780_0004.N1	01-JUN-2004 01:11:11	Bright	41.500	120	1Del Oph	2.7340	3200.0	83	11780	No
GOM_TRA_1PNPDE20040601_011412_000000392027_00203_11780_0005.N1	01-JUN-2004 01:14:12	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	11780	No
GOM_TRA_1PNPDE20040601_011814_000000412027_00203_11780_0006.N1	01-JUN-2004 01:18:14	Bright	41.000	3	16Alp Boo	-0.050000	4250.0	82	11780	No
GOM_TRA_1PNPDE20040601_012009_000000392027_00203_11780_0007.N1	01-JUN-2004 01:20:09	Bright	39.000	83		2.3780	11000.	78	11780	No
GOM_TRA_1PNPDE20040601_012321_000000392027_00203_11780_0008.N1	01-JUN-2004 01:23:21	Bright	39.000	180	27Gam Boo	3.0400	8000.0	78	11780	No
GOM_TRA_1PNPDE20040601_012645_000000412027_00203_11780_0009.N1	01-JUN-2004 01:26:45	Bright	40.500	39	85Eta UMa	1.8540	24000.	81	11780	No
GOM_TRA_1PNPDE20040601_012834_000000362027_00203_11780_0010.N1	01-JUN-2004 01:28:34	Bright	35.500	55	79Zet UMa	2.0600	10200.	71	11780	No
GOM_TRA_1PNPDE20040601_013041_000000402027_00203_11780_0011.N1	01-JUN-2004 01:30:41	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	11780	No
GOM_TRA_1PNPDE20040601_013323_000000362027_00203_11780_0012.N1	01-JUN-2004 01:33:23	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	11780	No
GOM_TRA_1PNPDE20040601_013804_000000352027_00203_11780_0013.N1	01-JUN-2004 01:38:04	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	11780	No
GOM_TRA_1PNPDE20040601_014104_000000482027_00203_11780_0014.N1	01-JUN-2004 01:41:04	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	11780	No
GOM_TRA_1PNPDE20040601_015417_000001802027_00203_11780_0015.N1	01-JUN-2004 01:54:17	Twilight	180.00	92	53Eps Cyg	2.5000	4500.0	360	11780	No
GOM_TRA_1PNPDE20040601_015808_000000912027_00203_11780_0016.N1	01-JUN-2004 01:58:08	Twilight	91.000	93	53Bet Peg	2.5200	3100.0	182	11780	No
GOM_TRA_1PNPDE20040601_020132_000000562027_00203_11780_0017.N1	01-JUN-2004 02:01:32	Dark	55.500	140	88Gam Peg	2.8340	26000.	111	11780	No
GOM_TRA_1PNPDE20040601_020456_000000872027_00203_11780_0018.N1	01-JUN-2004 02:04:56	Dark	86.500	90	54Alp Peg	2.4870	11000.	173	11780	No
GOM_TRA_1PNPDE20040601_021033_000000522027_00203_11780_0019.N1	01-JUN-2004 02:10:33	Dark	51.500	52	16Bet Cet	2.0370	4500.0	103	11780	No
GOM_TRA_1PNPDE20040601_021715_000000462027_00203_11780_0020.N1	01-JUN-2004 02:17:15	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	11780	No
GOM_TRA_1PNPDE20040601_021923_000000482027_00203_11780_0021.N1	01-JUN-2004 02:19:23	Dark	47.500	9	Alp Eri	0.45300	24000.	95	11780	No
GOM_TRA_1PNPDE20040601_022235_000000542027_00204_11781_0022.N1	01-JUN-2004 02:22:35	Dark	53.500	63	Bet Gru	2.1500	2800.0	107	11781	No
GOM_TRA_1PNPDE20040601_022428_000000492027_00204_11781_0023.N1	01-JUN-2004 02:24:28	Dark	48.500	31	Alp Gru	1.7340	15200.	97	11781	No
GOM_TRA_1PNPDE20040601_022925_000000442027_00204_11781_0024.N1	01-JUN-2004 02:29:25	Dark	44.000	45	Alp Pav	1.9400	26000.	88	11781	No
GOM_TRA_1PNPDE20040601_023301_000000462027_00204_11781_0025.N1	01-JUN-2004 02:33:01	Twilight	45.500	43	Alp TrA	1.9100	4250.0	91	11781	No
GOM_TRA_1PNPDE20040601_023505_000000422027_00204_11781_0026.N1	01-JUN-2004 02:35:05	Twilight	42.000	134	Bet TrA	2.8100	6600.0	84	11781	No
GOM_TRA_1PNPDE20040601_023648_000000452027_00204_11781_0027.N1	01-JUN-2004 02:36:48	Bright	44.500	147	Alp Ara	2.8770	26000.	89	11781	No
GOM_TRA_1PNPDE20040601_023830_000000512027_00204_11781_0028.N1	01-JUN-2004 02:38:30	Bright	51.000	40	The Sco	1.8590	7100.0	102	11781	No
GOM_TRA_1PNPDE20040601_024020_000000462027_00204_11781_0029.N1	01-JUN-2004 02:40:20	Bright	45.500	25	35Lam Sco	1.6200	28000.	91	11781	No
GOM_TRA_1PNPDE20040601_024203_000000522027_00204_11781_0030.N1	01-JUN-2004 02:42:03	Bright	51.500	75	26Eps Sco	2.2910	4250.0	103	11781	No
GOM_TRA_1PNPDE20040601_024405_000000562027_00204_11781_0031.N1	01-JUN-2004 02:44:05	Bright	56.000	136	23Tau Sco	2.8220	30000.	112	11781	No
GOM_TRA_1PNPDE20040601_024612_000000422027_00204_11781_0000.N1	01-JUN-2004 02:46:12	Bright	42.000	80	7Del Sco	2.3160	30000.	84	11781	No
GOM_TRA_1PNPDE20040601_024745_000000472027_00204_11781_0001.N1	01-JUN-2004 02:47:45	Bright	47.000	86	35Eta Oph	2.4300	10200.	94	11781	No
GOM_TRA_1PNPDE20040601_024936_000000442027_00204_11781_0002.N1	01-JUN-2004 02:49:36	Bright	43.500	98	13Zet Oph	2.5710	30000.	87	11781	No
GOM_TRA_1PNPDE20040601_025147_000000422027_00204_11781_0003.N1	01-JUN-2004 02:51:47	Bright	41.500	120	1Del Oph	2.7340	3200.0	83	11781	No
GOM_TRA_1PNPDE20040601_025448_000000392027_00204_11781_0004.N1	01-JUN-2004 02:54:48	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	11781	No
GOM_TRA_1PNPDE20040601_025851_000000382027_00204_11781_0005.N1	01-JUN-2004 02:58:51	Bright	38.000	3	16Alp Boo	-0.050000	4250.0	76	11781	No
GOM_TRA_1PNPDE20040601_030046_000000362027_00204_11781_0006.N1	01-JUN-2004 03:00:46	Bright	36.000	83		2.3780	11000.	72	11781	No
GOM_TRA_1PNPDE20040601_030357_000000372027_00204_11781_0007.N1	01-JUN-2004 03:03:57	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11781	No
GOM_TRA_1PNPDE20040601_030720_000000412027_00204_11781_0008.N1	01-JUN-2004 03:07:20	Bright	40.500	39	85Eta UMa	1.8540	24000.	81	11781	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).

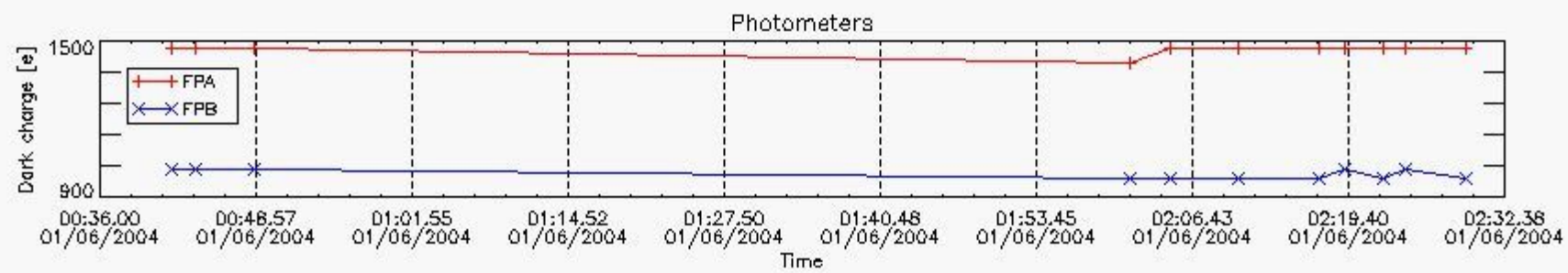
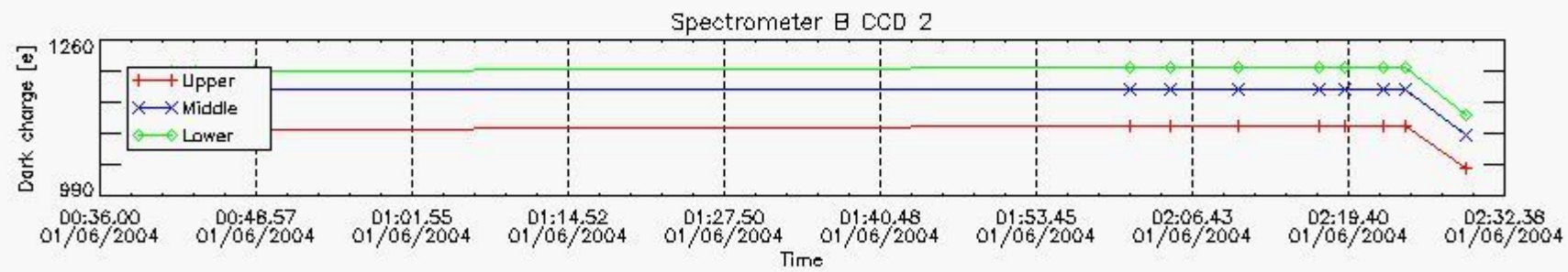
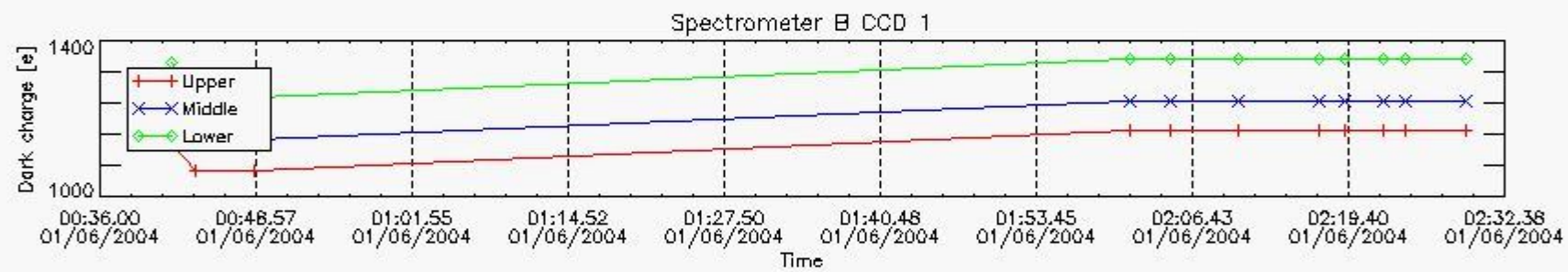
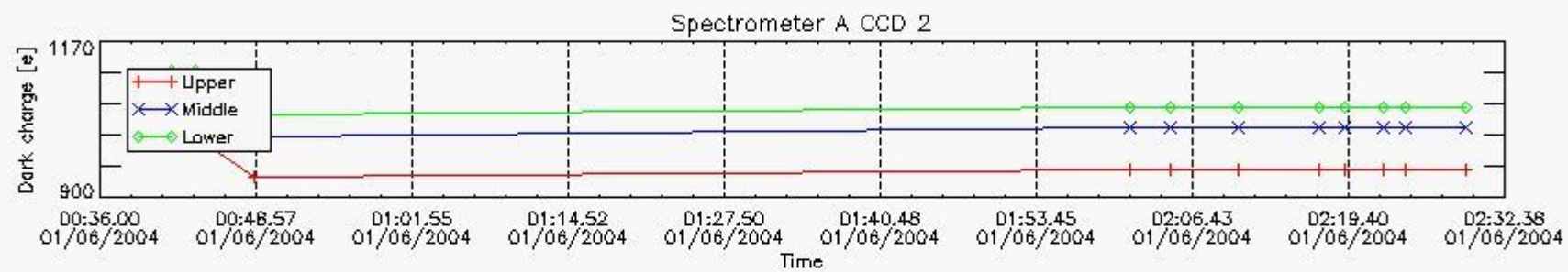
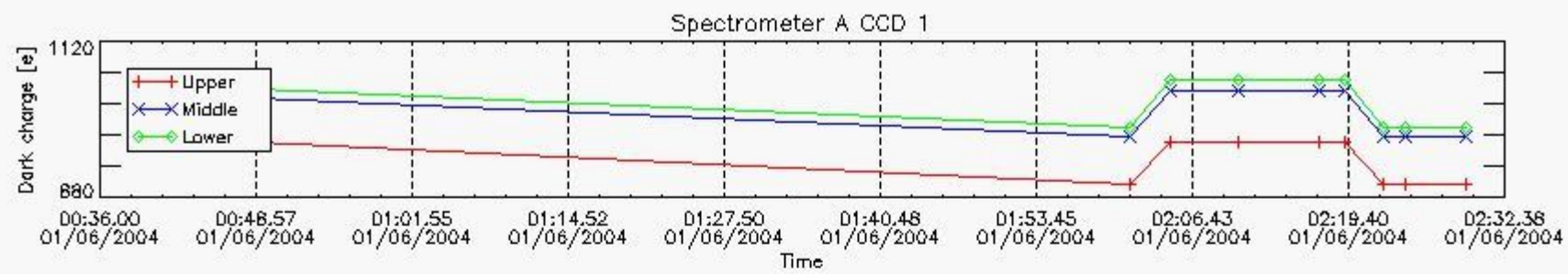
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20040601_004159_000000622027_00203_11780_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040601_004351_000000502027_00203_11780_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040601_004849_000000462027_00203_11780_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040601_005223_000000522027_00203_11780_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040601_005427_000000422027_00203_11780_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040601_005614_000000432027_00203_11780_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040601_005753_000000512027_00203_11780_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040601_005941_000000532027_00203_11780_0007.N1	DC map used (0)

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





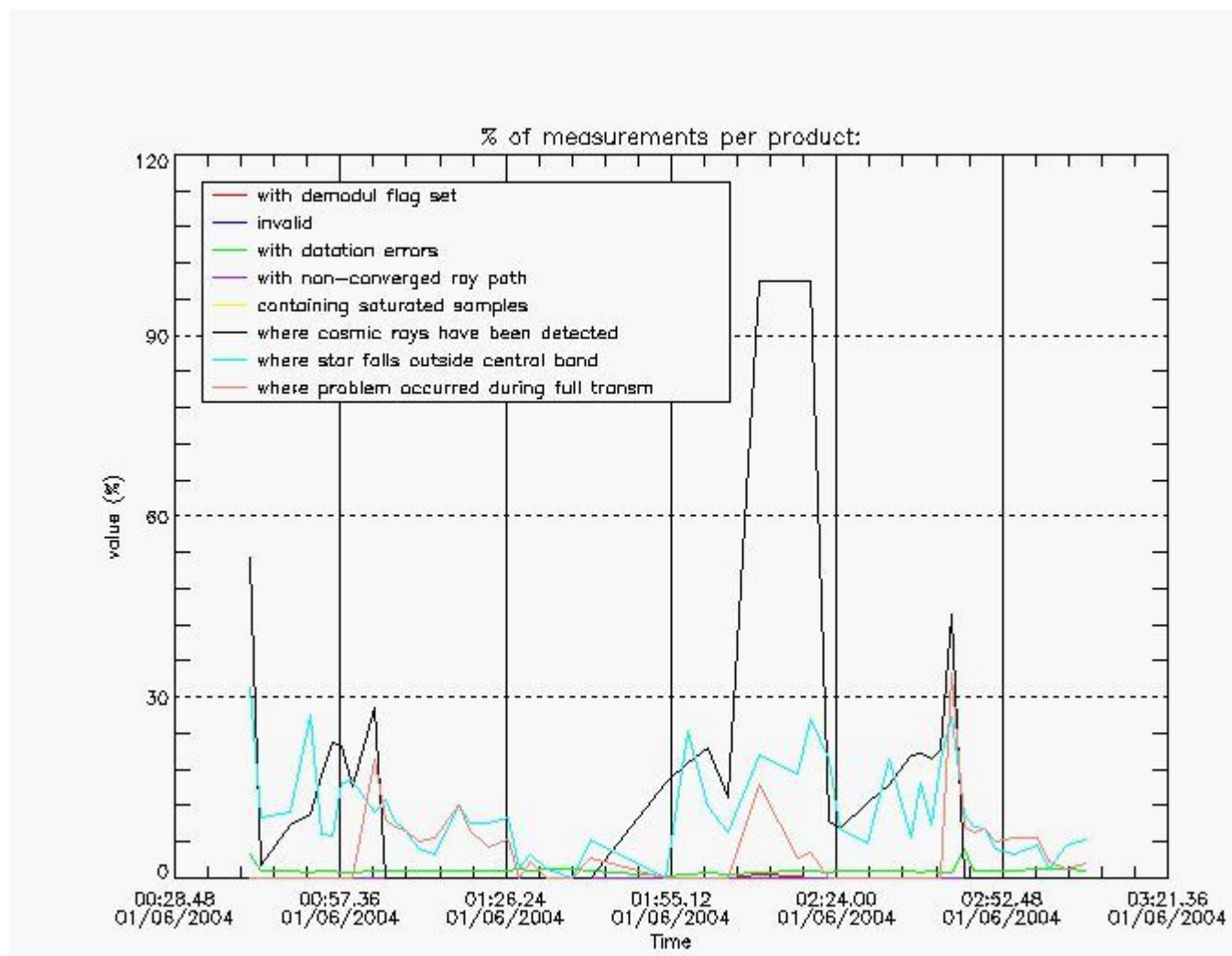
## 5. Demodulation flag and quality information monitoring

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.

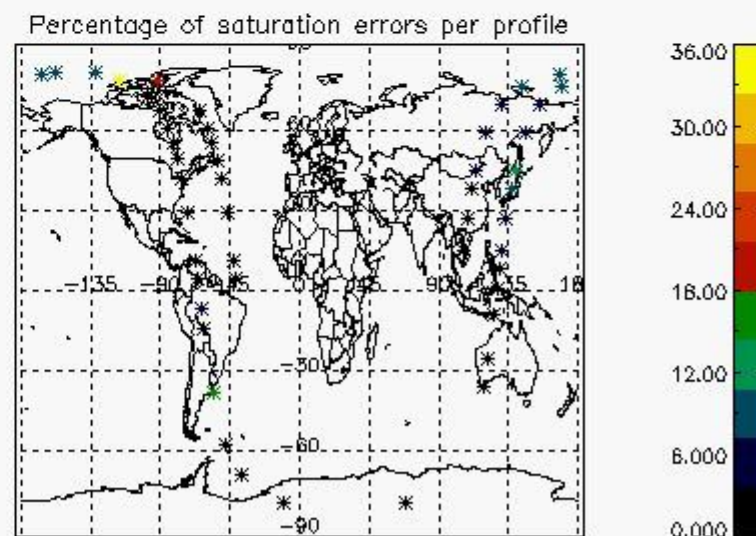
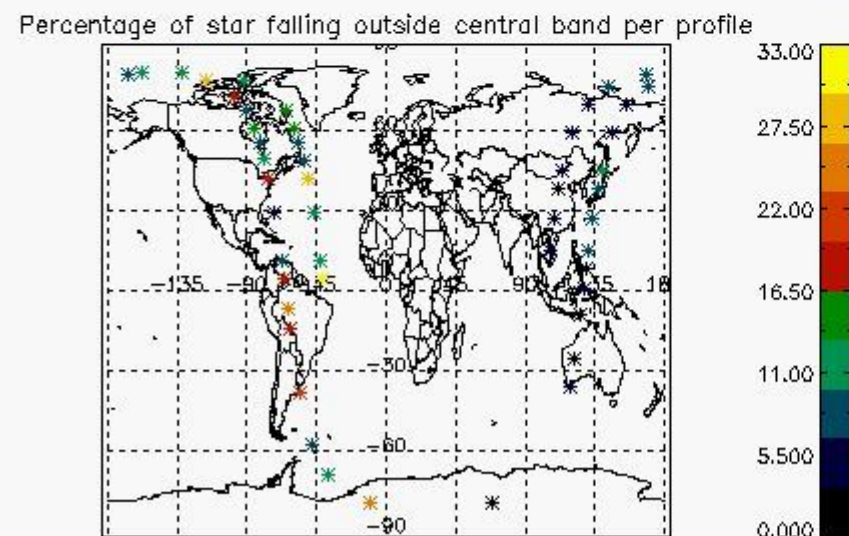
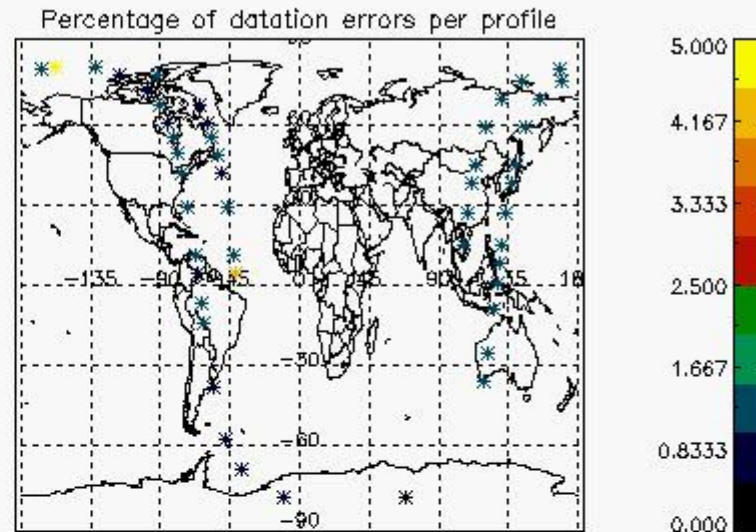
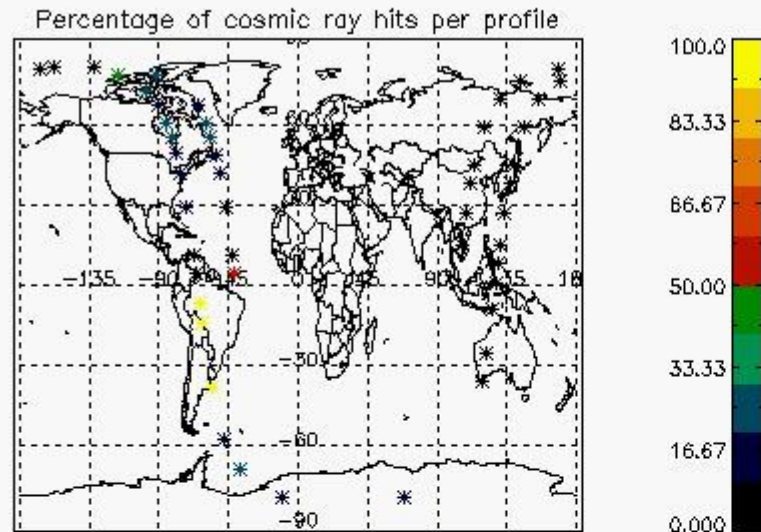
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	8.16327 %
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)

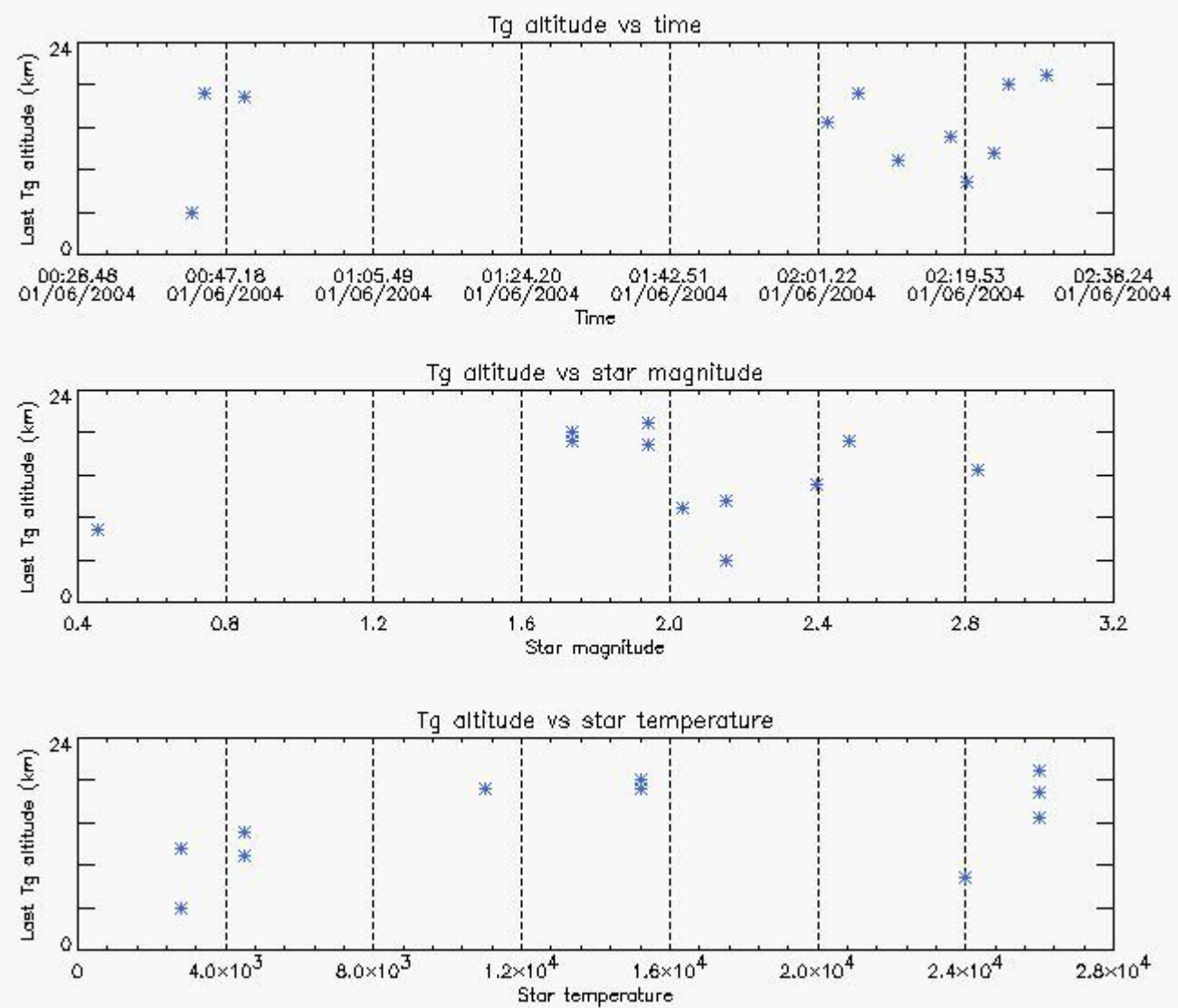
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.292	19.186	29.075
St. deviation:	5.0575	4.4797	40.062
Maximum:	20.289	28.246	110.33
Minimum:	4.6891	7.3753	6.9456
Number of data:	11.000	32.000	6.0000

### 6.2 Plot for DARK limb products

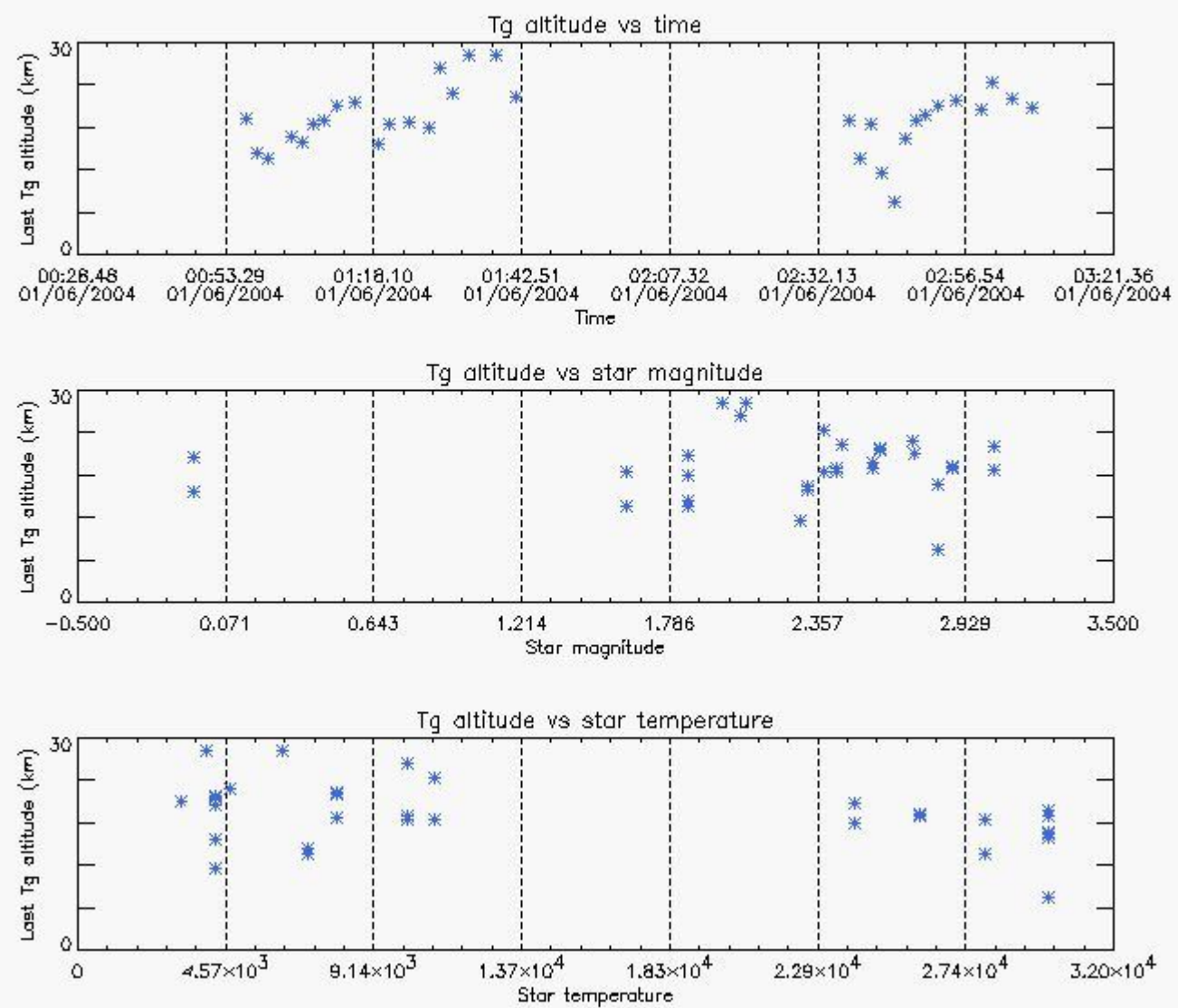


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

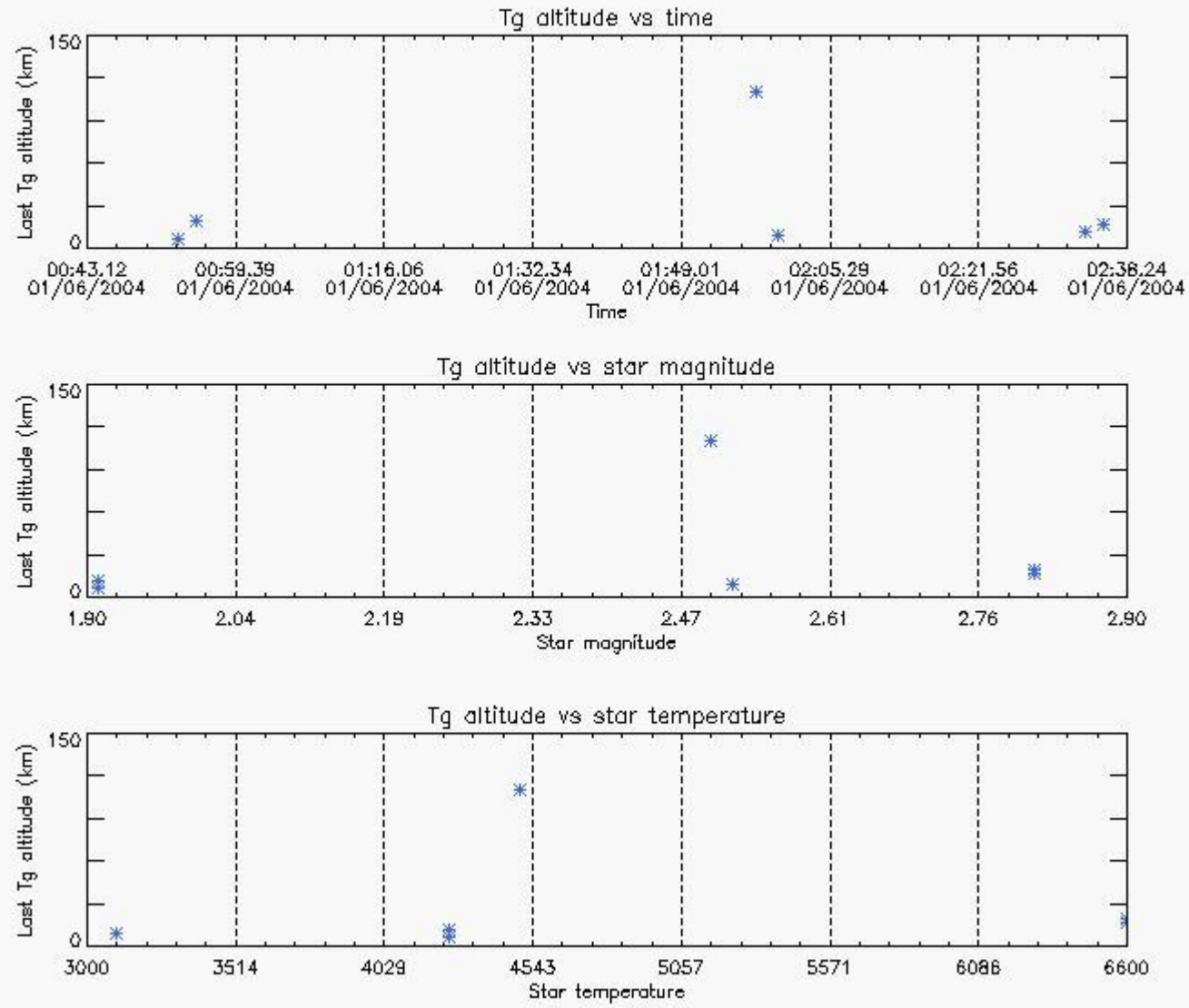
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



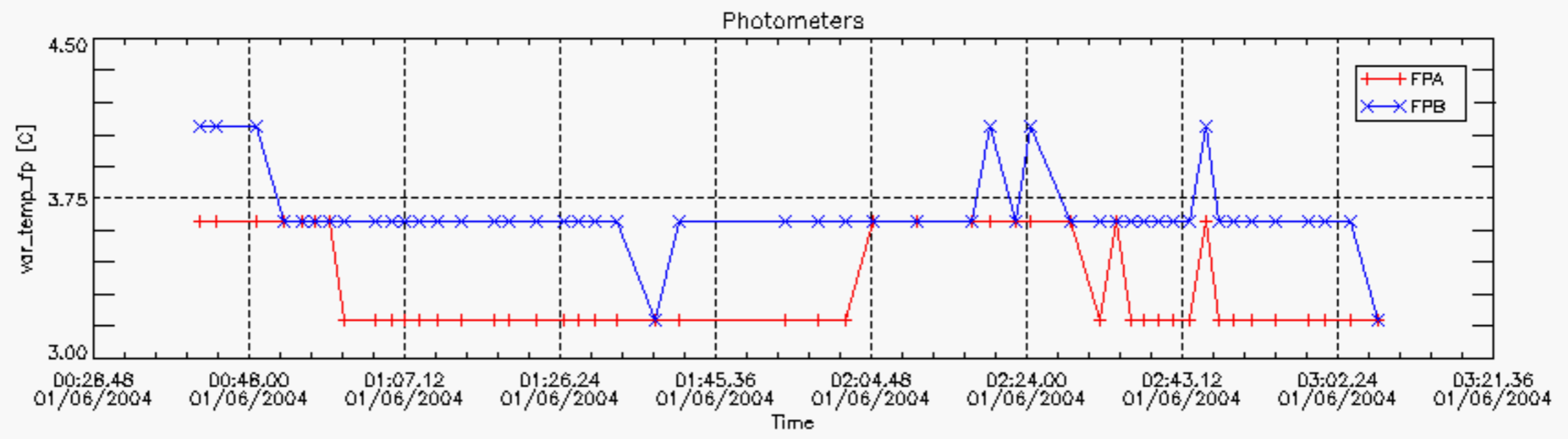
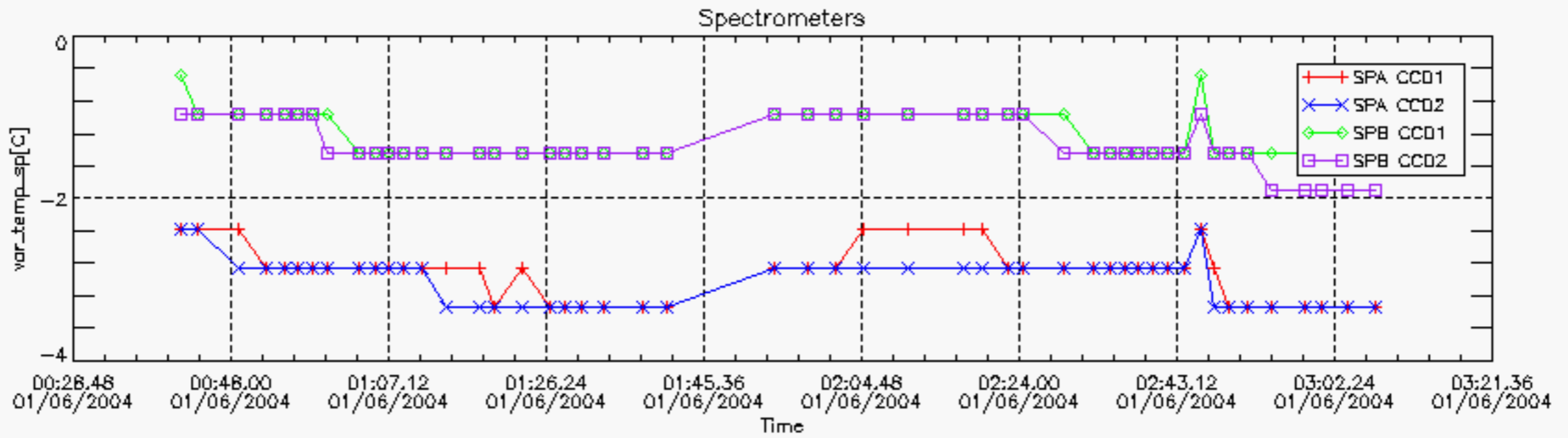
Tangent altitude at which the star is lost

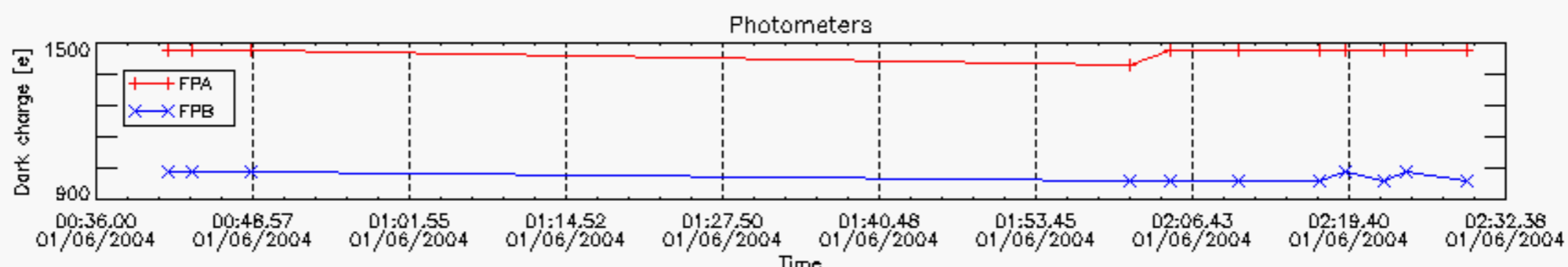
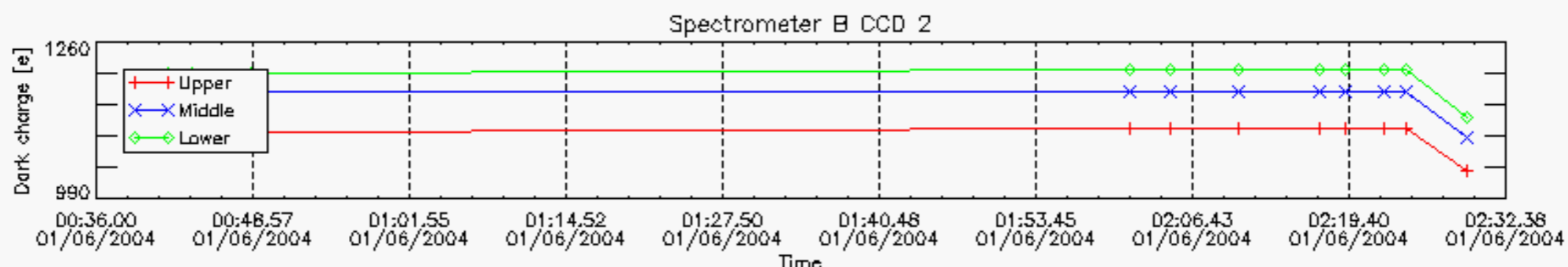
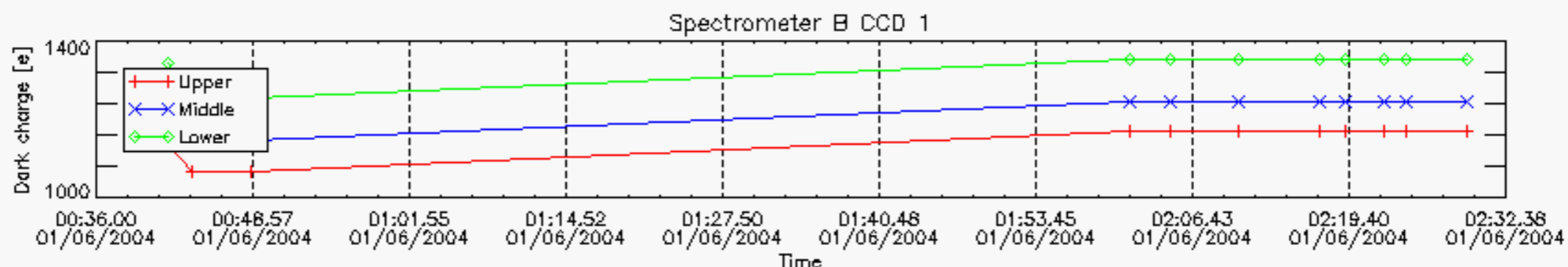
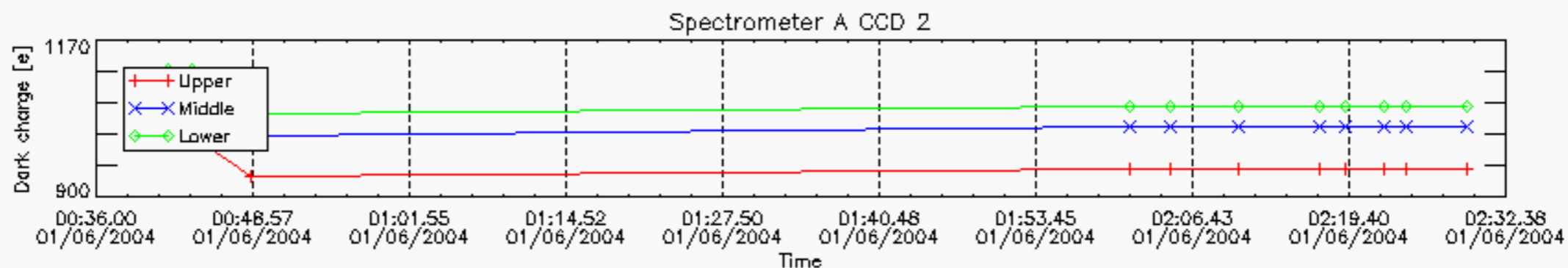
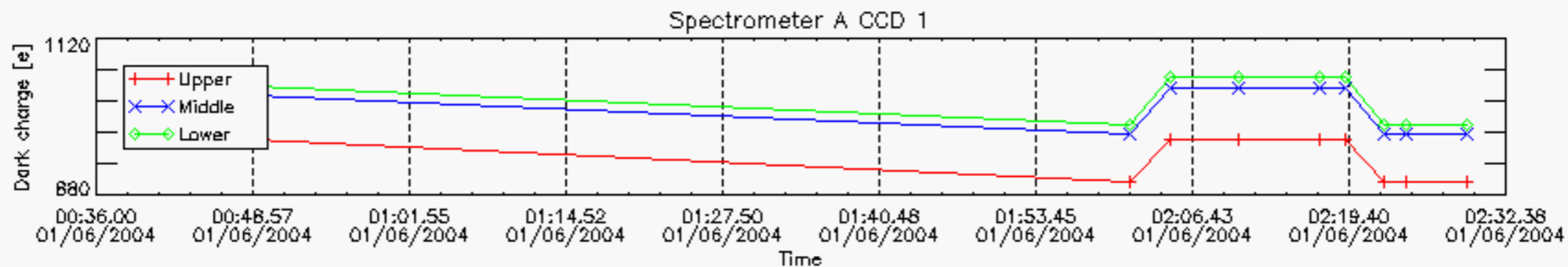


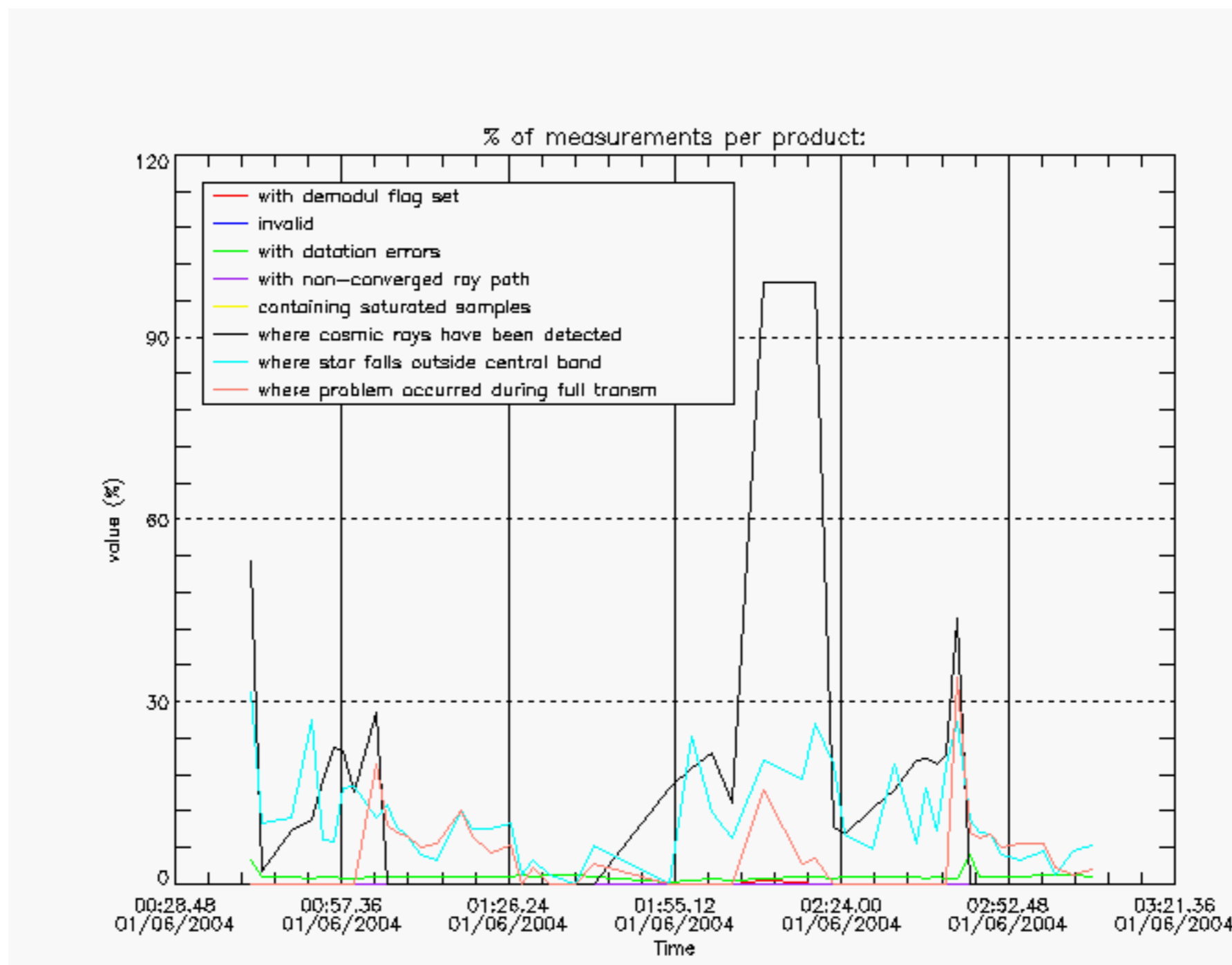
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1461.7	1448.7	1461.7	1446.2
St. deviation:	4.7241	6.1900	6.9245	8.2582
Maximum:	1501.0	1499.0	1513.0	1506.0
Minimum:	1439.0	1428.0	1437.0	1418.0
Number of data:	15050.	15050.	37850.	37850.

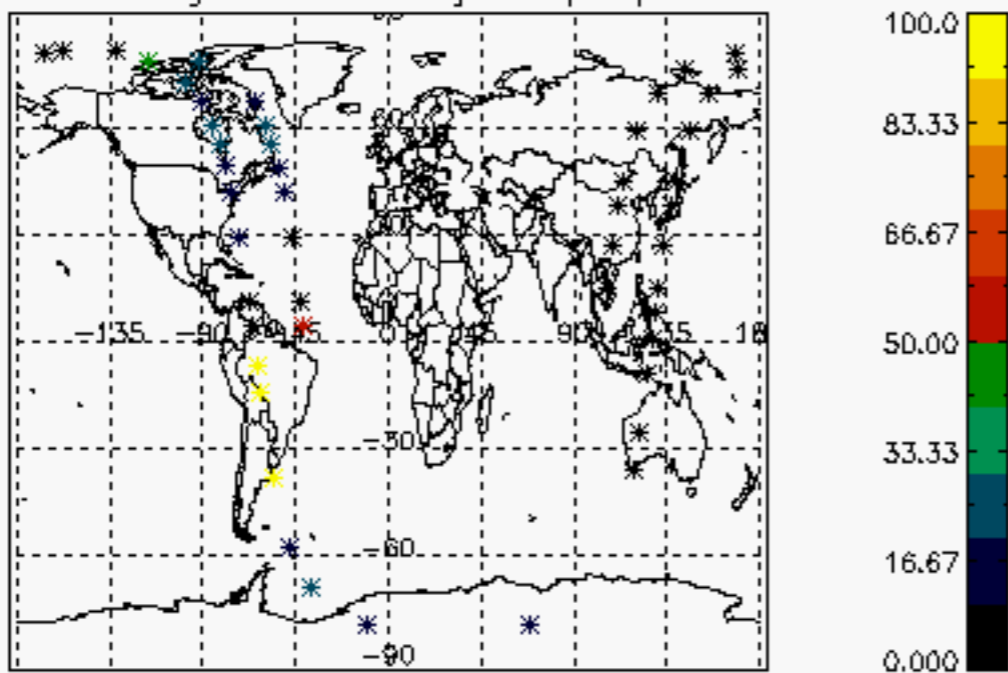




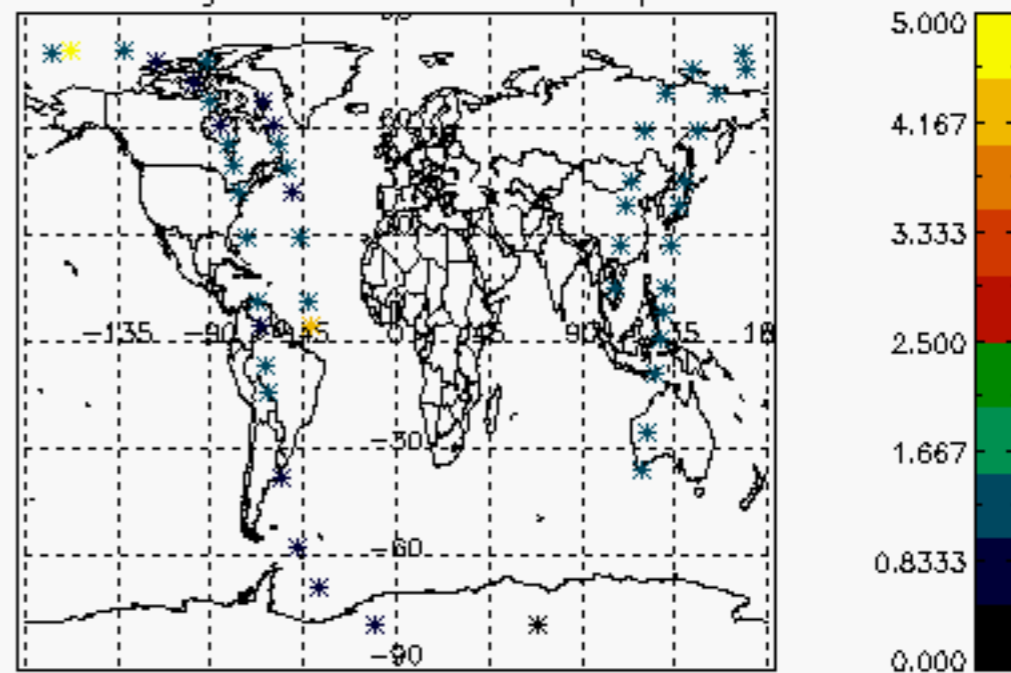




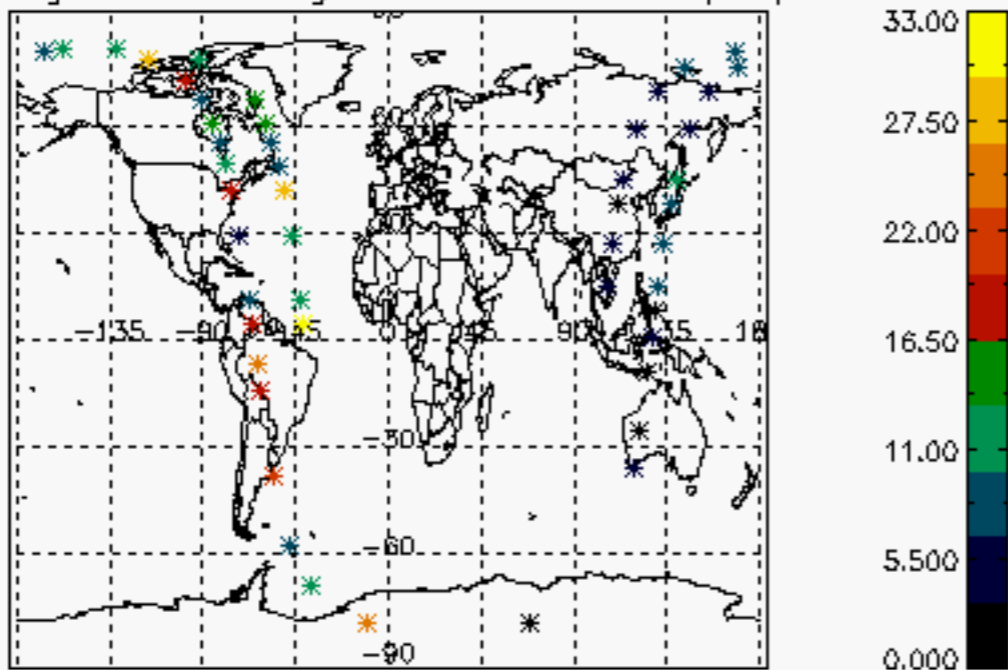
Percentage of cosmic ray hits per profile



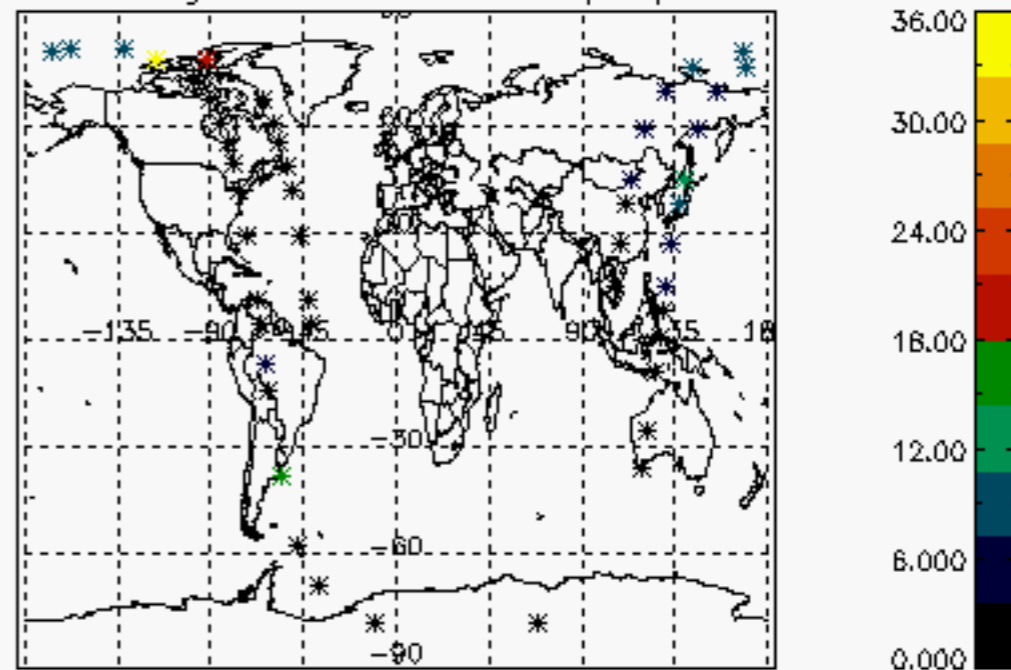
Percentage of datation errors per profile



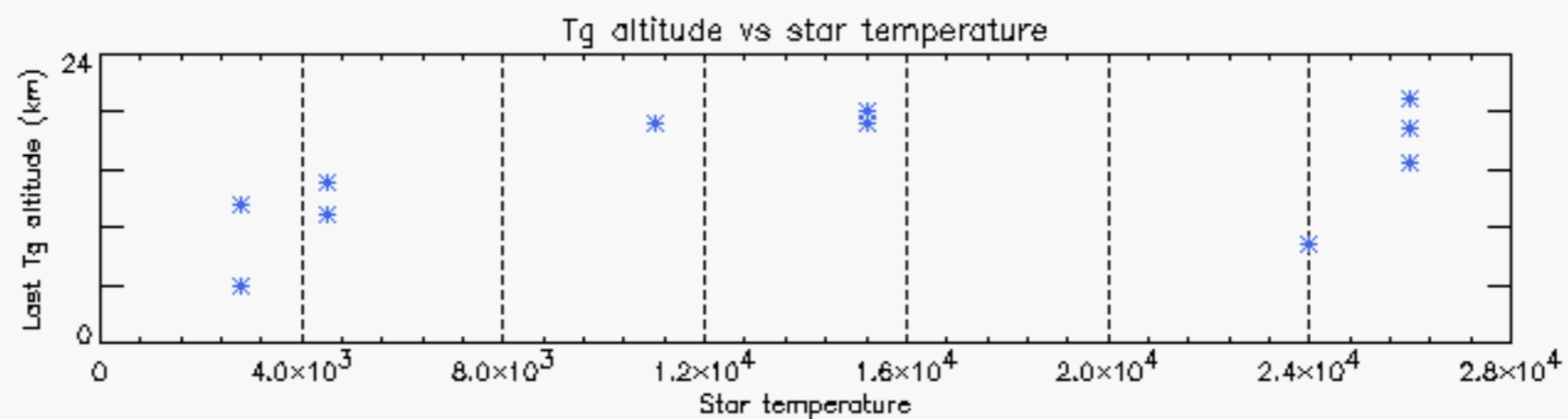
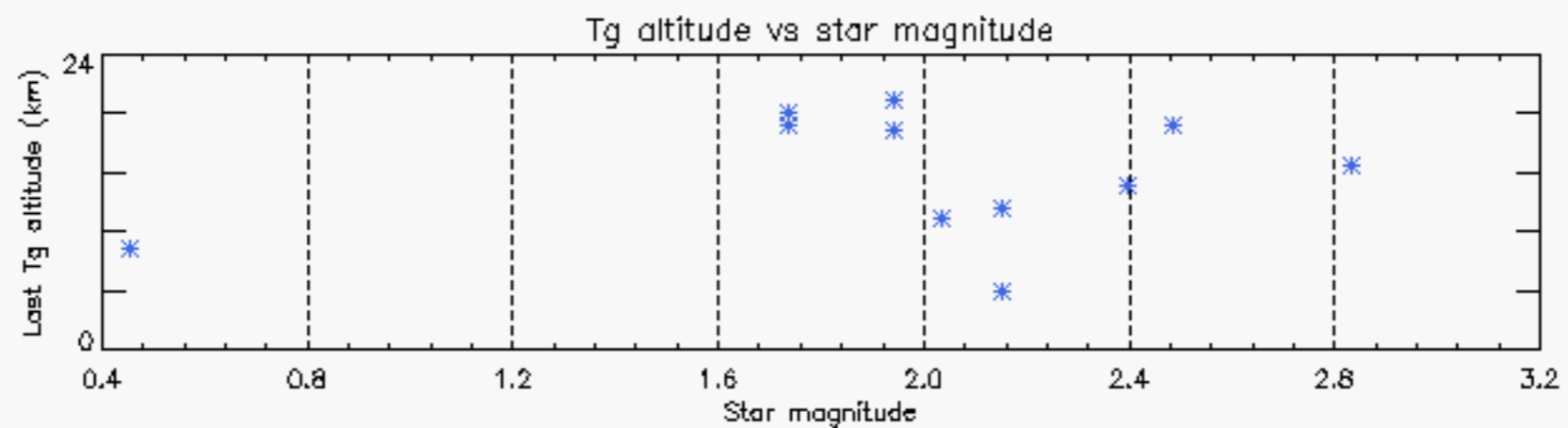
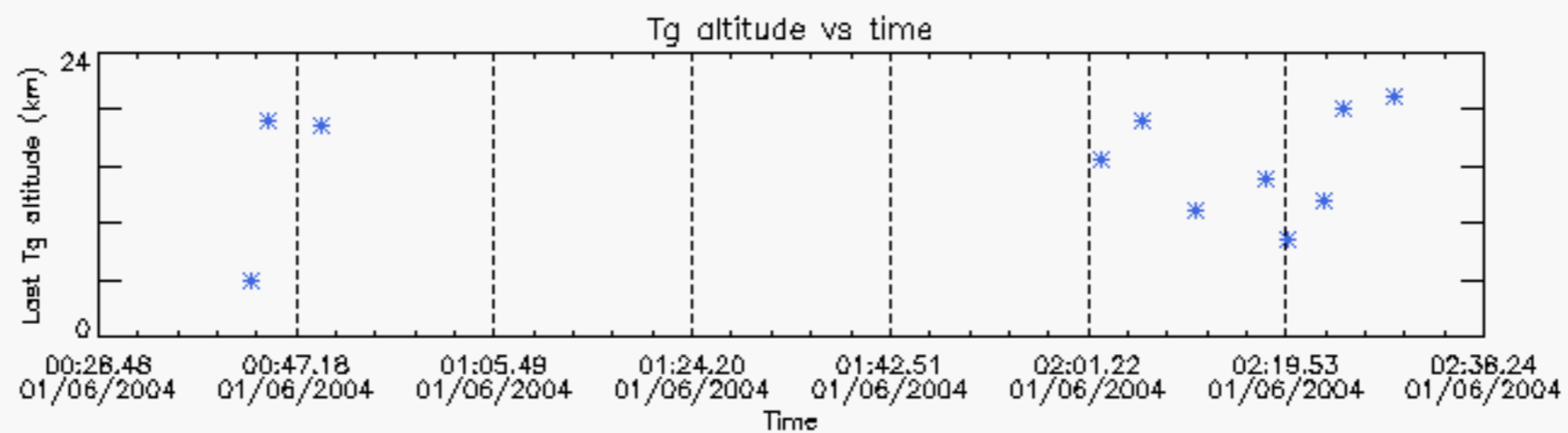
Percentage of star falling outside central band per profile



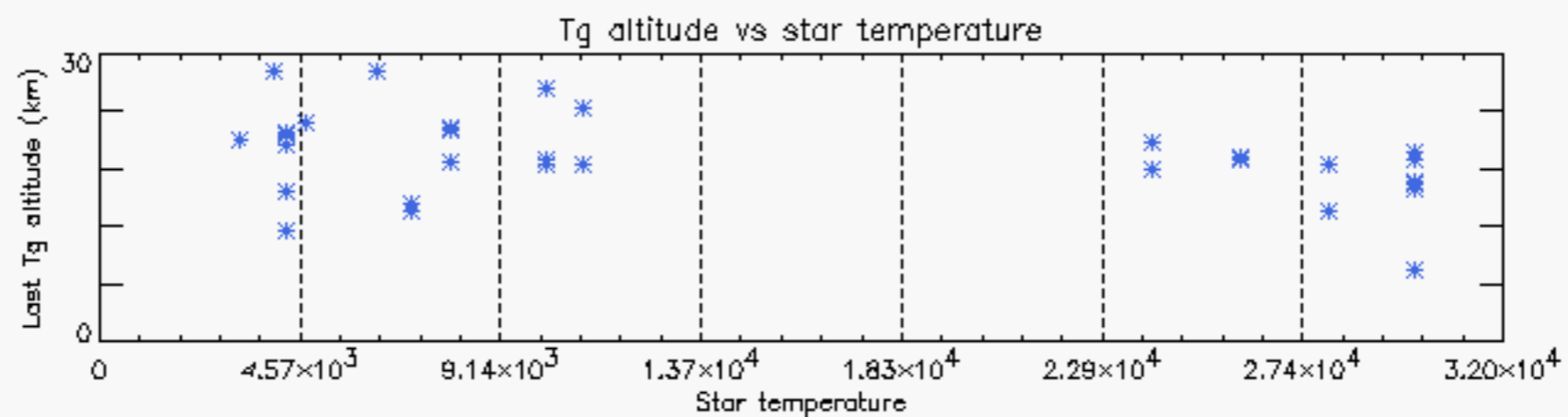
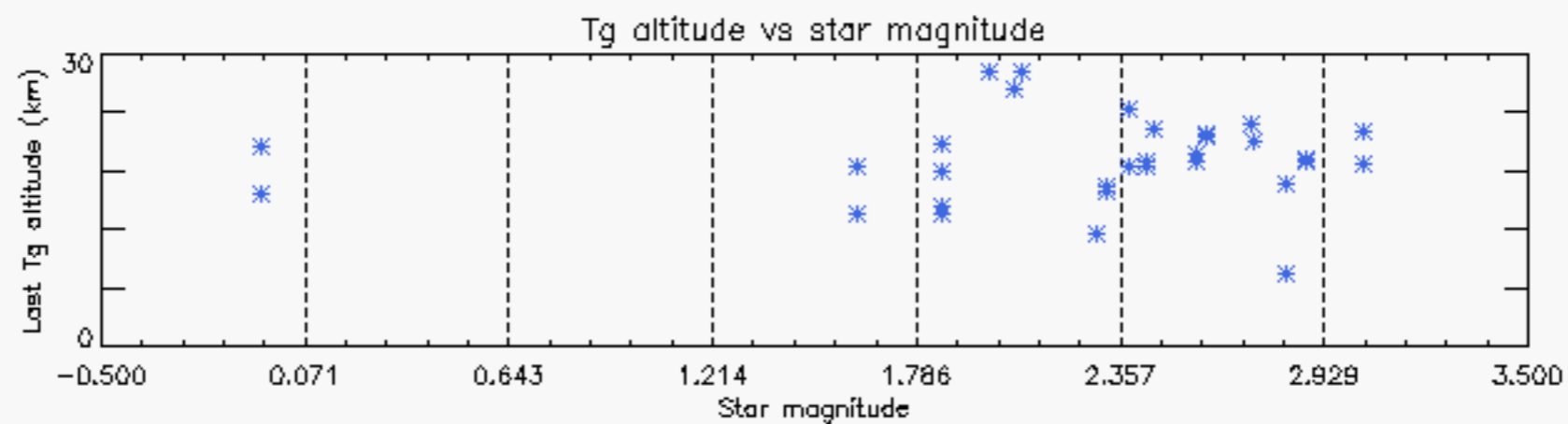
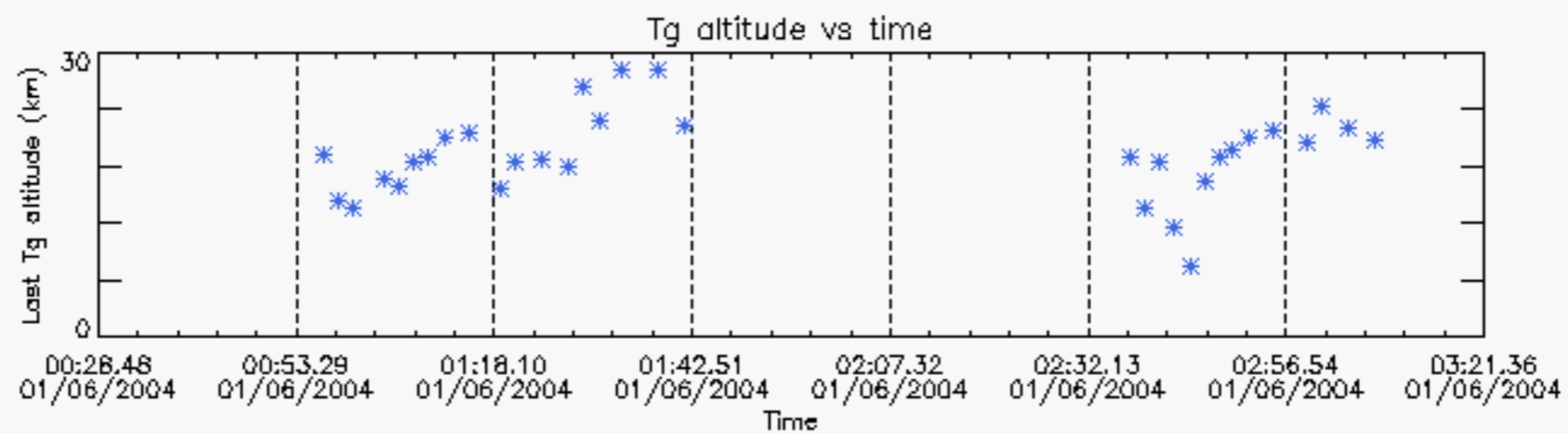
Percentage of saturation errors per profile



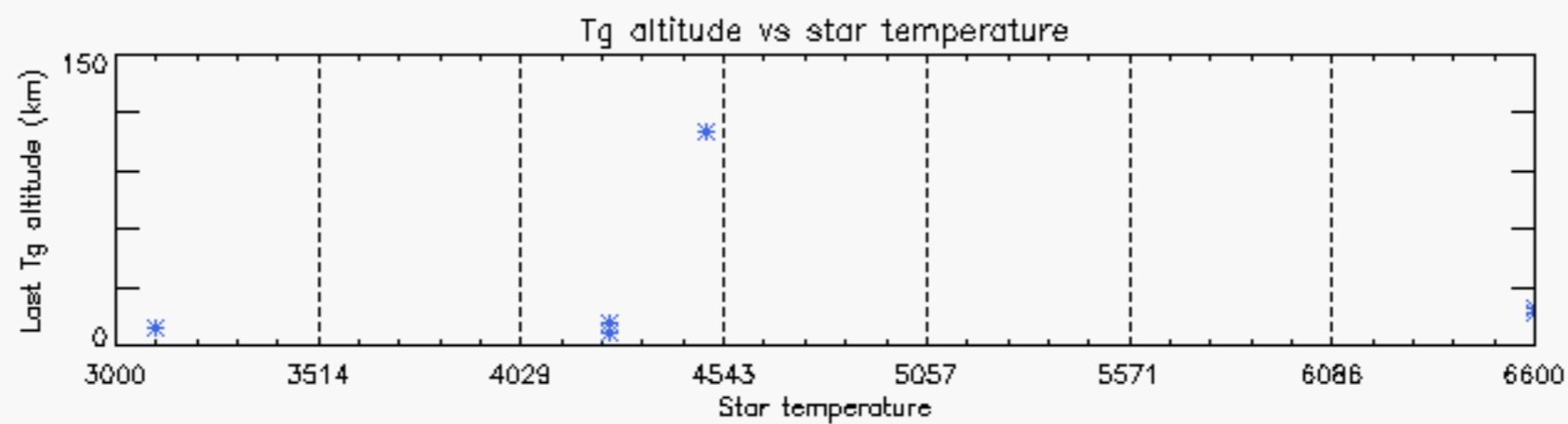
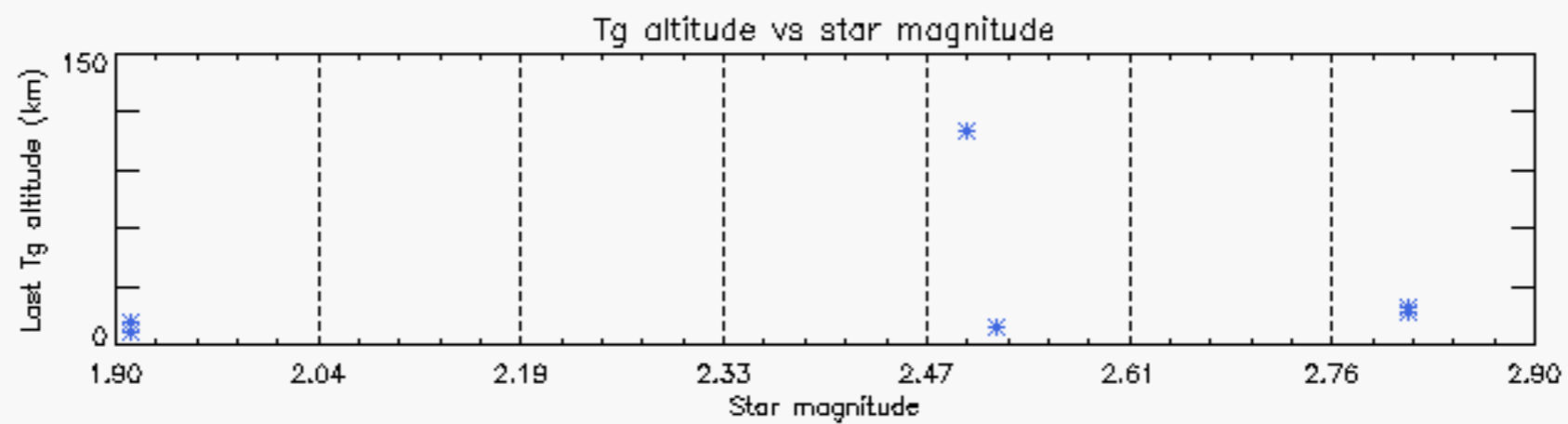
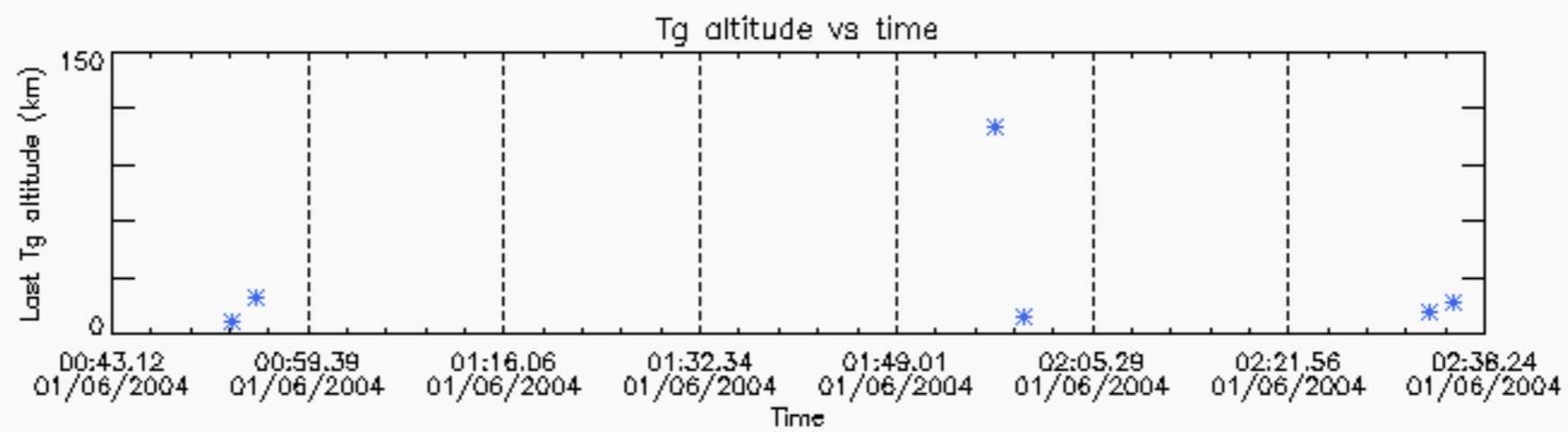
Tangent altitude at which the star is lost



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

1;-4410.1; 01-JUN-2004 06:09:33; Bright; 47.0; 86; 35Eta Oph ; 2.43; 10200;occ; 94; 71;11783  
 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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1;-4203.2; 01-JUN-2004 07:53:36; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;11784  
 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  
 6;-3267.8; 01-JUN-2004 08:09:12; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;11784  
 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
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23;	76.4;	10-JUN-2004	16:04:35;	Dark	;	69.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	138;	0;	11918
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