

# GOMOS Daily Report 15-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	16JUN2004 03:42:31
Data source version	GOMOS/4.02
Start time of products	15-JUN-2004 (15JUN2004 00:00:00)
Stop time of products	16-JUN-2004 (16JUN2004 00:00:00)

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

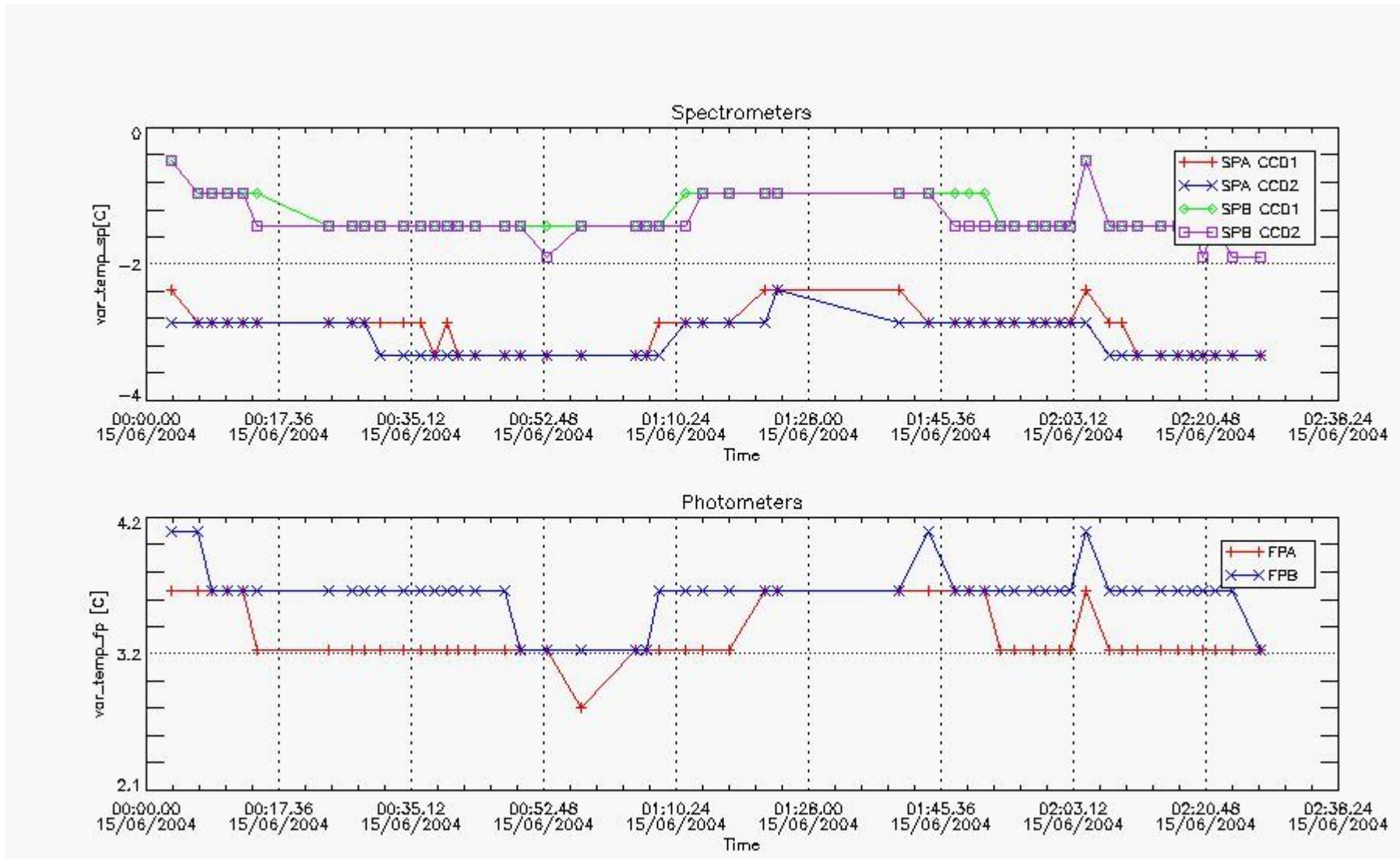
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040615_000322_000000712027_00403_11980_0000.N1	15-JUN-2004 00:03:22	Dark	70.500	18	24Alp PsA	1.1660	9700.0	141	11980	No
GOM_TRA_1PNPDE20040615_000652_000000502027_00403_11980_0001.N1	15-JUN-2004 00:06:52	Dark	50.000	31	Alp Gru	1.7340	15200.	100	11980	No
GOM_TRA_1PNPDE20040615_000844_000000612027_00403_11980_0002.N1	15-JUN-2004 00:08:44	Dark	61.000	172	Gam Gru	3.0030	13100.	122	11980	No
GOM_TRA_1PNPDE20040615_001045_000000452027_00403_11980_0003.N1	15-JUN-2004 00:10:45	Twilight	44.500	45	Alp Pav	1.9400	26000.	89	11980	No
GOM_TRA_1PNPDE20040615_001249_000000432027_00403_11980_0004.N1	15-JUN-2004 00:12:49	Twilight	42.500	43	Alp TrA	1.9100	4250.0	85	11980	No
GOM_TRA_1PNPDE20040615_001443_000000412027_00403_11980_0005.N1	15-JUN-2004 00:14:43	Bright	41.000	134	Bet TrA	2.8100	6600.0	82	11980	No
GOM_TRA_1PNPDE20040615_002412_000000602027_00403_11980_0000.N1	15-JUN-2004 00:24:12	Bright	60.000	155	41Pi Sgr	2.9000	6600.0	120	11980	No
GOM_TRA_1PNPDE20040615_002716_000000422027_00403_11980_0001.N1	15-JUN-2004 00:27:16	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	11980	No
GOM_TRA_1PNPDE20040615_002901_000000392027_00403_11980_0002.N1	15-JUN-2004 00:29:01	Bright	39.000	98	13Zet Oph	2.5710	30000.	78	11980	No
GOM_TRA_1PNPDE20040615_003107_000000382027_00403_11980_0003.N1	15-JUN-2004 00:31:07	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	11980	No
GOM_TRA_1PNPDE20040615_003408_000000382027_00403_11980_0004.N1	15-JUN-2004 00:34:08	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	11980	No
GOM_TRA_1PNPDE20040615_003624_000000462027_00403_11980_0005.N1	15-JUN-2004 00:36:24	Bright	46.000	59	55Alp Oph	2.0800	8900.0	92	11980	No
GOM_TRA_1PNPDE20040615_003821_000000392027_00403_11980_0006.N1	15-JUN-2004 00:38:21	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	11980	No
GOM_TRA_1PNPDE20040615_003952_000000372027_00403_11980_0007.N1	15-JUN-2004 00:39:52	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	11980	No
GOM_TRA_1PNPDE20040615_004124_000000402027_00403_11980_0008.N1	15-JUN-2004 00:41:24	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	11980	No
GOM_TRA_1PNPDE20040615_004347_000000372027_00403_11980_0009.N1	15-JUN-2004 00:43:47	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11980	No
GOM_TRA_1PNPDE20040615_004732_000000372027_00403_11980_0010.N1	15-JUN-2004 00:47:32	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	11980	No
GOM_TRA_1PNPDE20040615_004946_000000402027_00403_11980_0011.N1	15-JUN-2004 00:49:46	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	11980	No
GOM_TRA_1PNPDE20040615_005313_000000332027_00403_11980_0012.N1	15-JUN-2004 00:53:13	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	11980	No
GOM_TRA_1PNPDE20040615_005751_000000372027_00403_11980_0013.N1	15-JUN-2004 00:57:51	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	11980	No
GOM_TRA_1PNPDE20040615_010505_000000462027_00403_11980_0014.N1	15-JUN-2004 01:05:05	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	11980	No
GOM_TRA_1PNPDE20040615_010627_000000452027_00403_11980_0015.N1	15-JUN-2004 01:06:27	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	11980	No
GOM_TRA_1PNPDE20040615_010806_000000362027_00403_11980_0016.N1	15-JUN-2004 01:08:06	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	11980	No
GOM_TRA_1PNPDE20040615_011133_000000422027_00403_11980_0017.N1	15-JUN-2004 01:11:33	Twilight	41.500	73	57Gam1And	2.2600	13100.	83	11980	No
GOM_TRA_1PNPDE20040615_011355_000000562027_00403_11980_0018.N1	15-JUN-2004 01:13:55	Twilight	55.500	53	43Bet And	2.0480	3300.0	111	11980	No
GOM_TRA_1PNPDE20040615_011723_000000572027_00403_11980_0019.N1	15-JUN-2004 01:17:23	Twilight	56.500	50	13Alp Ari	2.0070	4250.0	113	11980	No
GOM_TRA_1PNPDE20040615_012209_000000382027_00403_11980_0020.N1	15-JUN-2004 01:22:09	Twilight	38.000	94	92Alp Cet	2.5260	3100.0	76	11980	No
GOM_TRA_1PNPDE20040615_012345_000000772027_00403_11980_0021.N1	15-JUN-2004 01:23:45	Dark	77.000	140	88Gam Peg	2.8340	26000.	154	11980	No
GOM_TRA_1PNPDE20040615_014001_000000452027_00403_11980_0022.N1	15-JUN-2004 01:40:01	Dark	45.000	9	Alp Eri	0.45300	24000.	90	11980	No
GOM_TRA_1PNPDE20040615_014400_000000702027_00404_11981_0023.N1	15-JUN-2004 01:44:00	Dark	70.000	18	24Alp PsA	1.1660	9700.0	140	11981	No
GOM_TRA_1PNPDE20040615_014729_000000492027_00404_11981_0024.N1	15-JUN-2004 01:47:29	Dark	48.500	31	Alp Gru	1.7340	15200.	97	11981	No
GOM_TRA_1PNPDE20040615_014922_000000622027_00404_11981_0025.N1	15-JUN-2004 01:49:22	Dark	62.000	172	Gam Gru	3.0030	13100.	124	11981	No
GOM_TRA_1PNPDE20040615_015121_000000472027_00404_11981_0026.N1	15-JUN-2004 01:51:21	Twilight	47.000	45	Alp Pav	1.9400	26000.	94	11981	No
GOM_TRA_1PNPDE20040615_015325_000000432027_00404_11981_0027.N1	15-JUN-2004 01:53:25	Twilight	43.000	43	Alp TrA	1.9100	4250.0	86	11981	No
GOM_TRA_1PNPDE20040615_015519_000000432027_00404_11981_0028.N1	15-JUN-2004 01:55:19	Bright	43.000	134	Bet TrA	2.8100	6600.0	86	11981	No
GOM_TRA_1PNPDE20040615_015745_000000432027_00404_11981_0029.N1	15-JUN-2004 01:57:45	Bright	42.500	147	Alp Ara	2.8770	26000.	85	11981	No
GOM_TRA_1PNPDE20040615_015930_000000472027_00404_11981_0030.N1	15-JUN-2004 01:59:30	Bright	46.500	40	The Sco	1.8590	7100.0	93	11981	No
GOM_TRA_1PNPDE20040615_020115_000000442027_00404_11981_0031.N1	15-JUN-2004 02:01:15	Bright	43.500	25	35Lam Sco	1.6200	28000.	87	11981	No
GOM_TRA_1PNPDE20040615_020243_000000462027_00404_11981_0032.N1	15-JUN-2004 02:02:43	Bright	46.000	75	26Eps Sco	2.2910	4250.0	92	11981	No
GOM_TRA_1PNPDE20040615_020449_000000592027_00404_11981_0000.N1	15-JUN-2004 02:04:49	Bright	58.500	155	41Pi Sgr	2.9000	6600.0	117	11981	Yes
GOM_TRA_1PNPDE20040615_020752_000000422027_00404_11981_0001.N1	15-JUN-2004 02:07:52	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	11981	No
GOM_TRA_1PNPDE20040615_020937_000000382027_00404_11981_0002.N1	15-JUN-2004 02:09:37	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	11981	No
GOM_TRA_1PNPDE20040615_021143_000000382027_00404_11981_0003.N1	15-JUN-2004 02:11:43	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	11981	No
GOM_TRA_1PNPDE20040615_021443_000000402027_00404_11981_0004.N1	15-JUN-2004 02:14:43	Bright	39.500	102	24Alp Ser	2.6000	4250.0	79	11981	No
GOM_TRA_1PNPDE20040615_021700_000000452027_00404_11981_0005.N1	15-JUN-2004 02:17:00	Bright	44.500	59	55Alp Oph	2.0800	8900.0	89	11981	No
GOM_TRA_1PNPDE20040615_021857_000000402027_00404_11981_0006.N1	15-JUN-2004 02:18:57	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	11981	No
GOM_TRA_1PNPDE20040615_022027_000000382027_00404_11981_0007.N1	15-JUN-2004 02:20:27	Bright	38.000	67	5Alp CrB	2.2210	11000.	76	11981	No
GOM_TRA_1PNPDE20040615_022159_000000392027_00404_11981_0008.N1	15-JUN-2004 02:21:59	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	11981	No
GOM_TRA_1PNPDE20040615_022423_000000372027_00404_11981_0009.N1	15-JUN-2004 02:24:23	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11981	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).

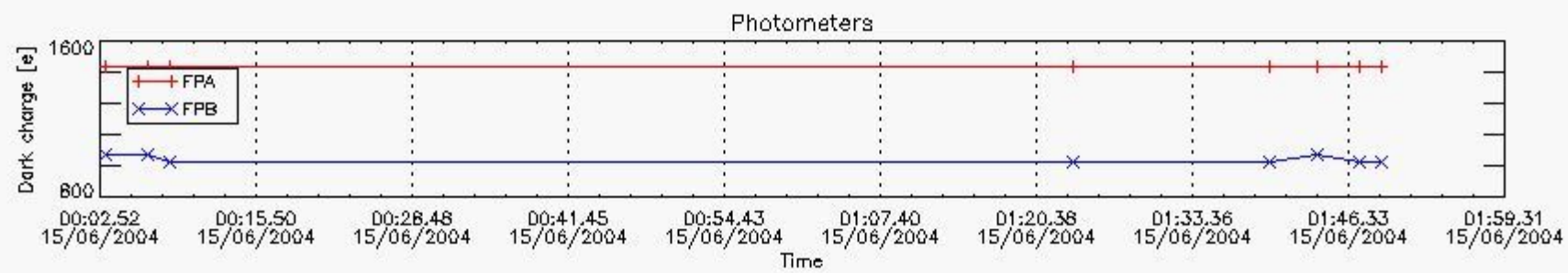
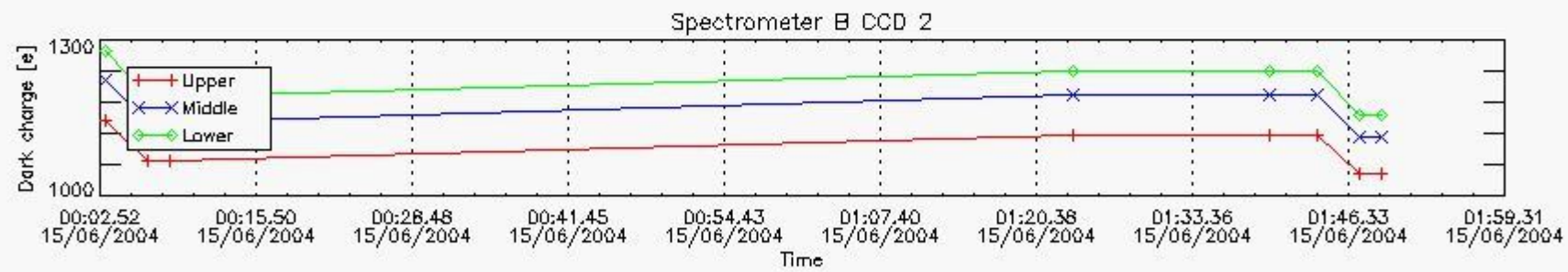
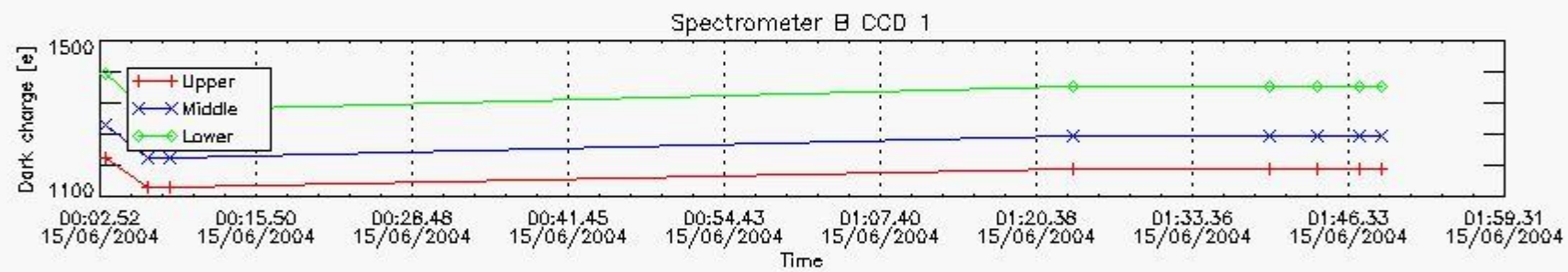
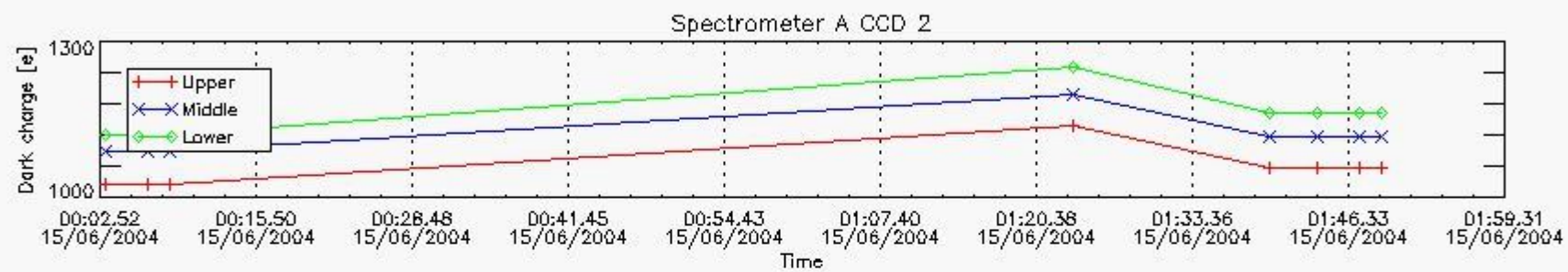
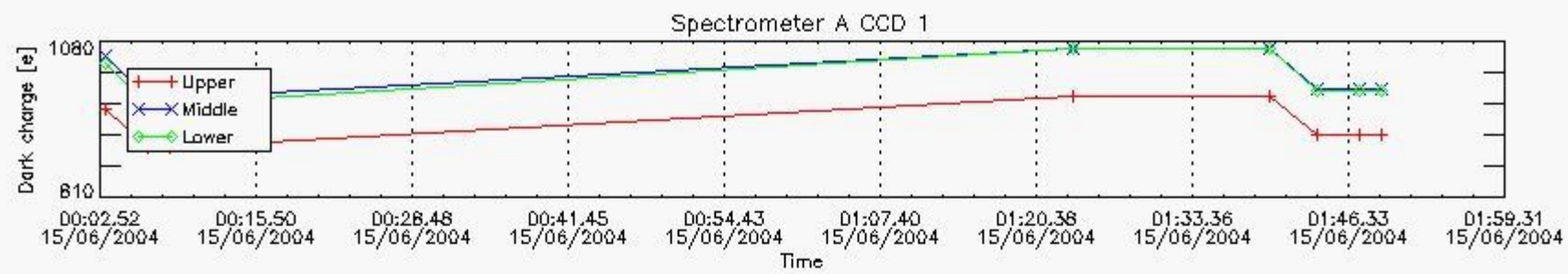
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20040615_000322_000000712027_00403_11980_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040615_000652_000000502027_00403_11980_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040615_000844_000000612027_00403_11980_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040615_001045_000000452027_00403_11980_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040615_001249_000000432027_00403_11980_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040615_001443_000000412027_00403_11980_0005.N1	DC map used (0)

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





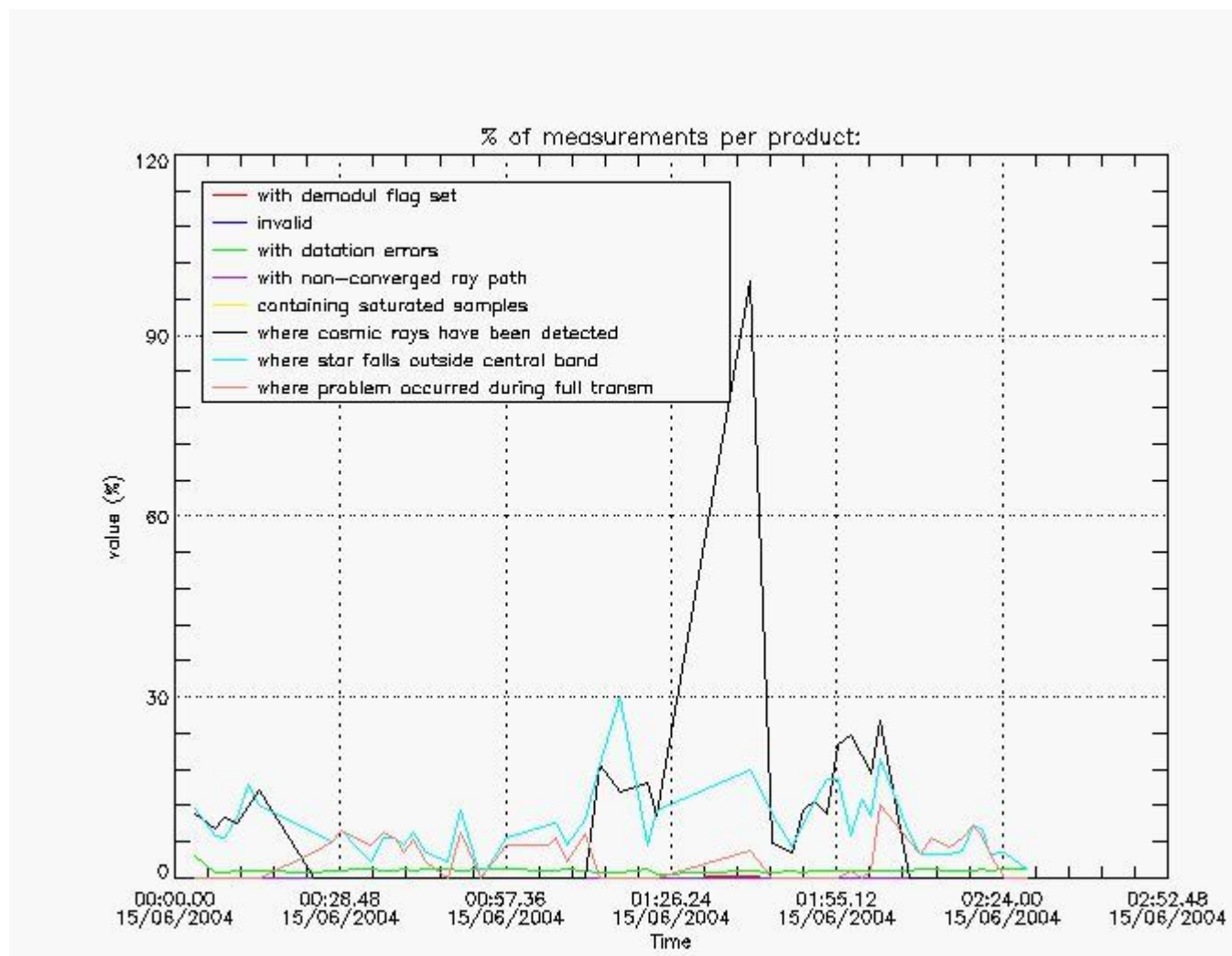
## 5. Demodulation flag and quality information monitoring

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.

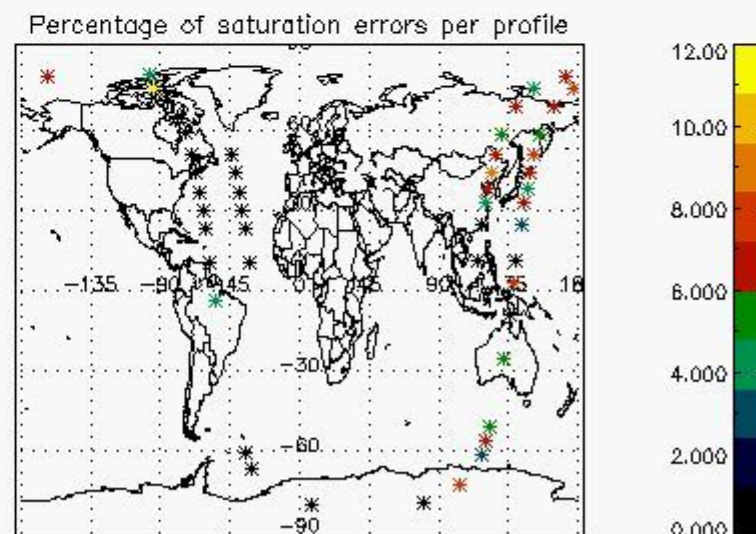
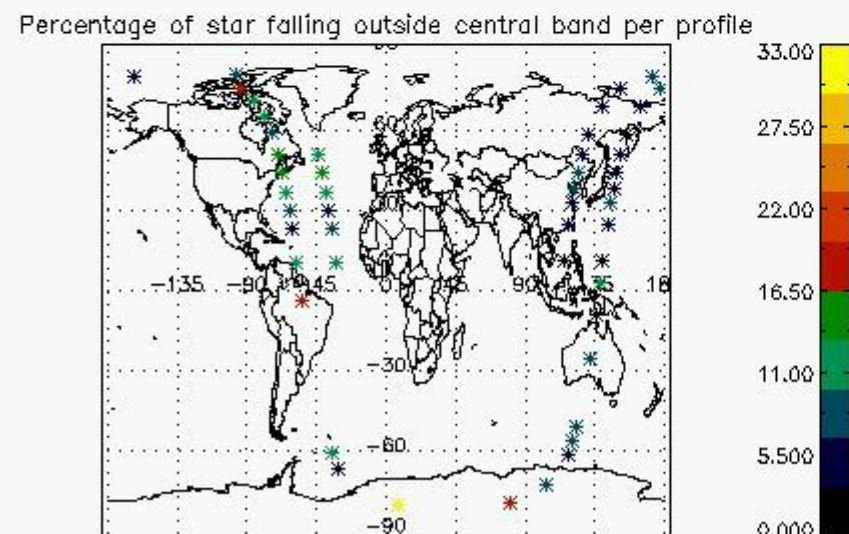
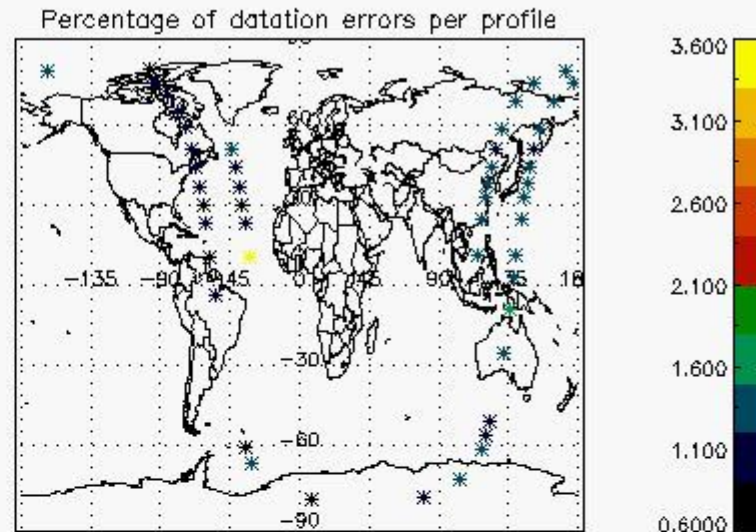
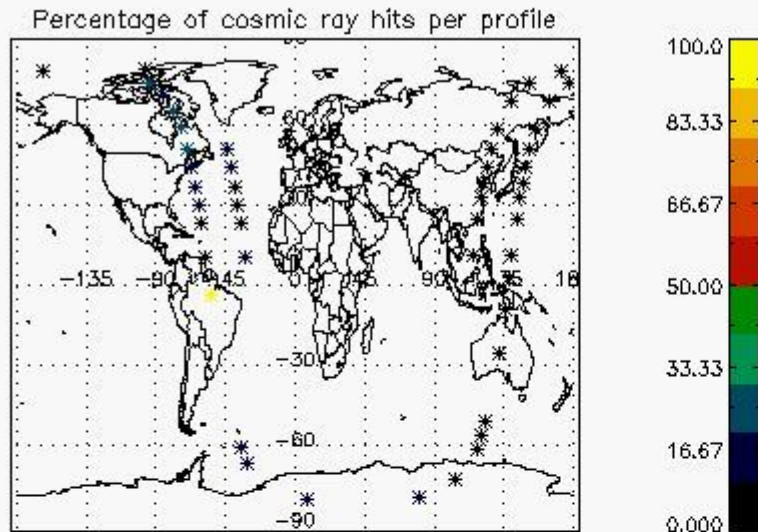
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	4.08163 %
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)

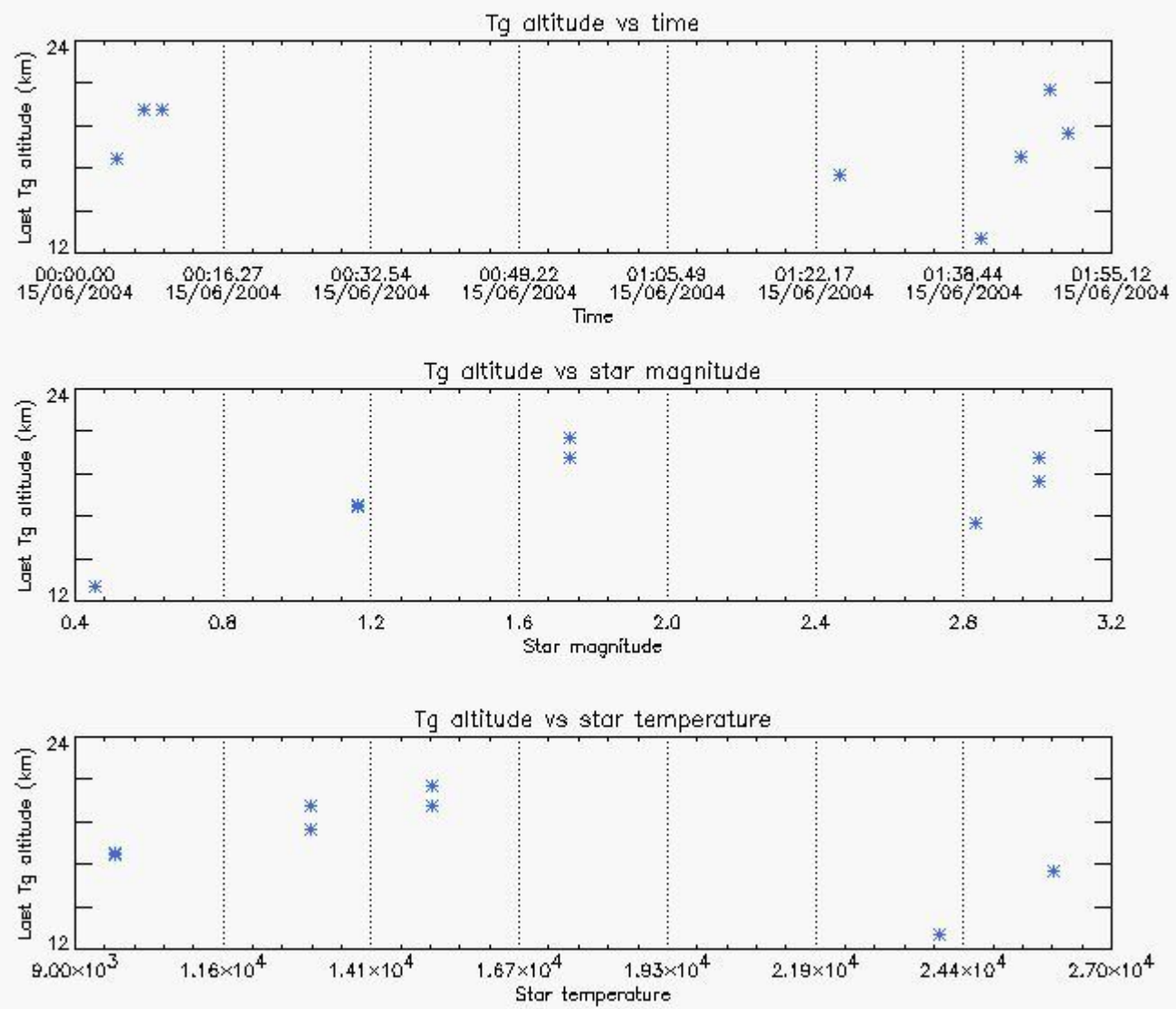
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.032	20.476	14.954
St. deviation:	2.6820	3.5166	4.6400
Maximum:	21.228	30.973	19.428
Minimum:	12.834	12.169	5.6693
Number of data:	8.0000	33.000	8.0000

### 6.2 Plot for DARK limb products

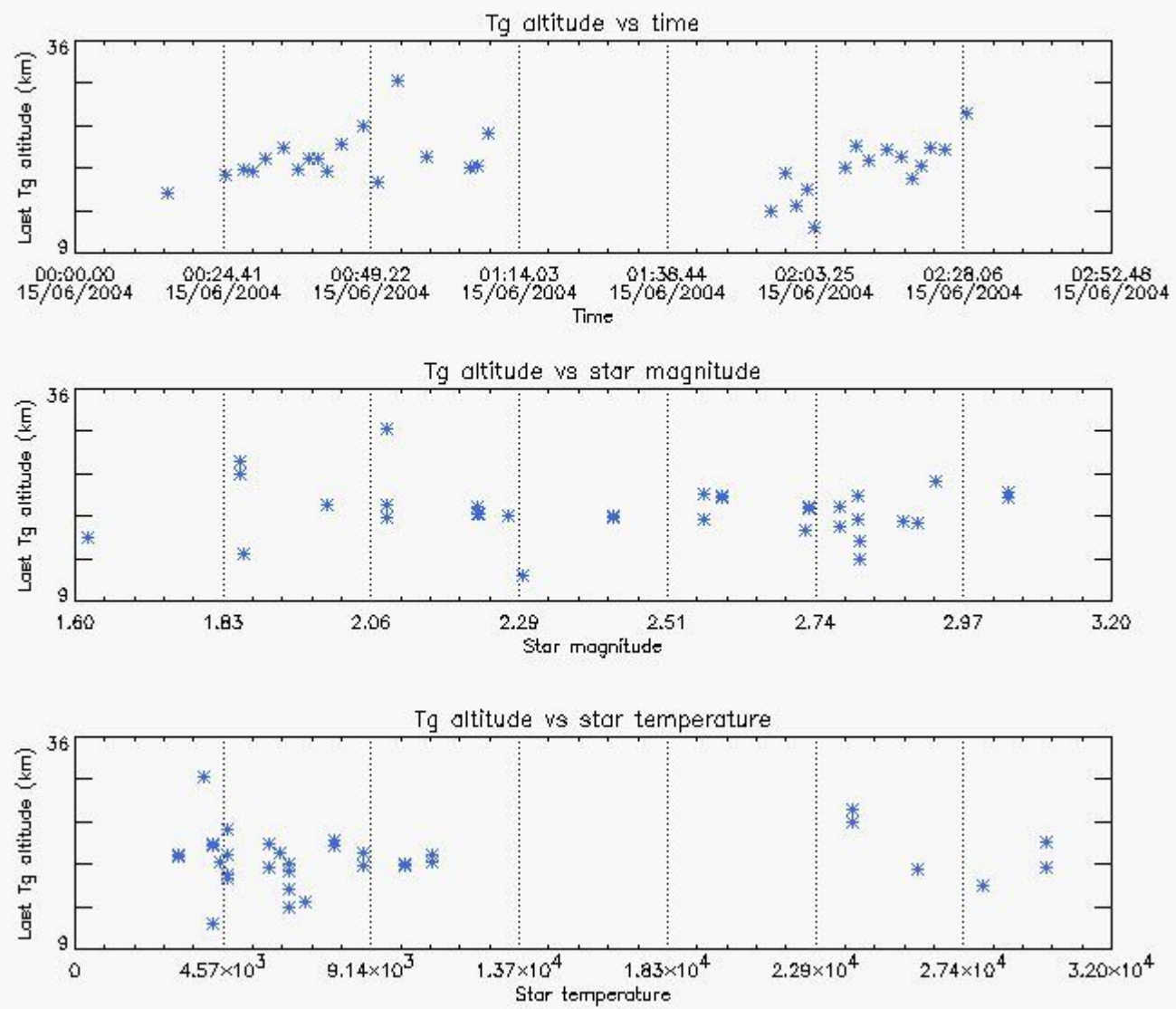


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

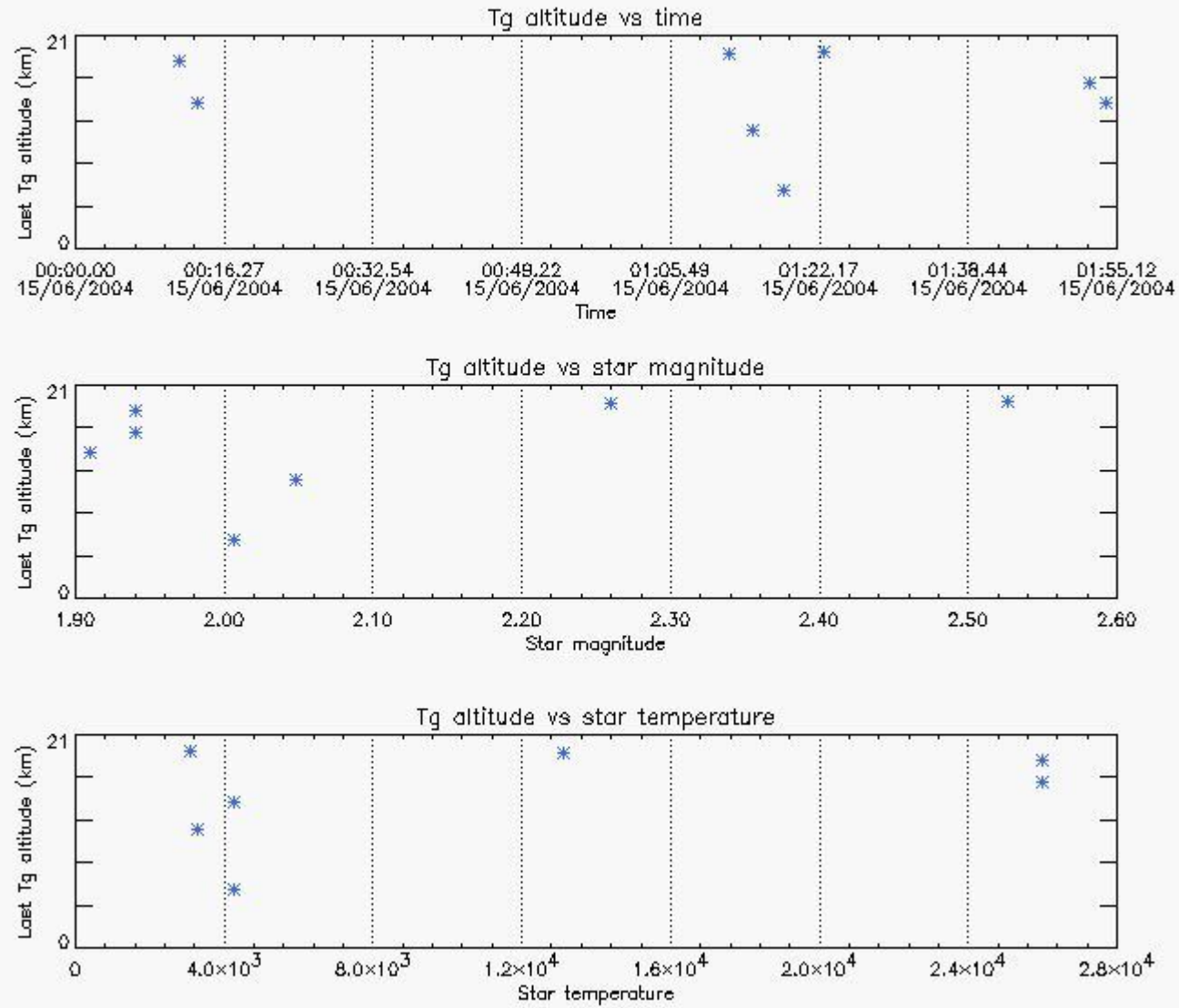
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



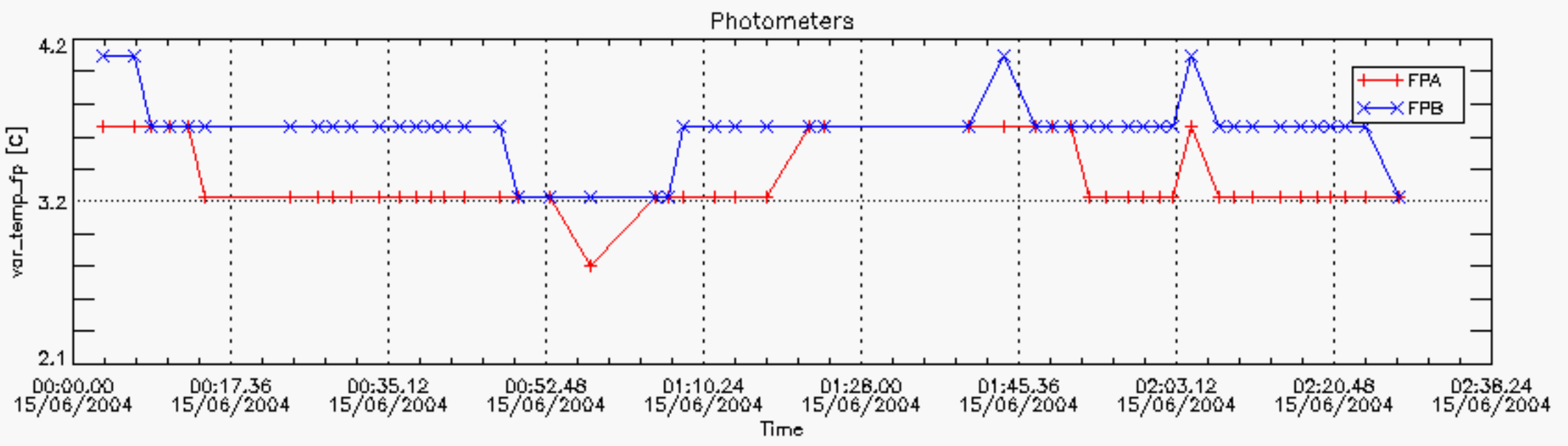
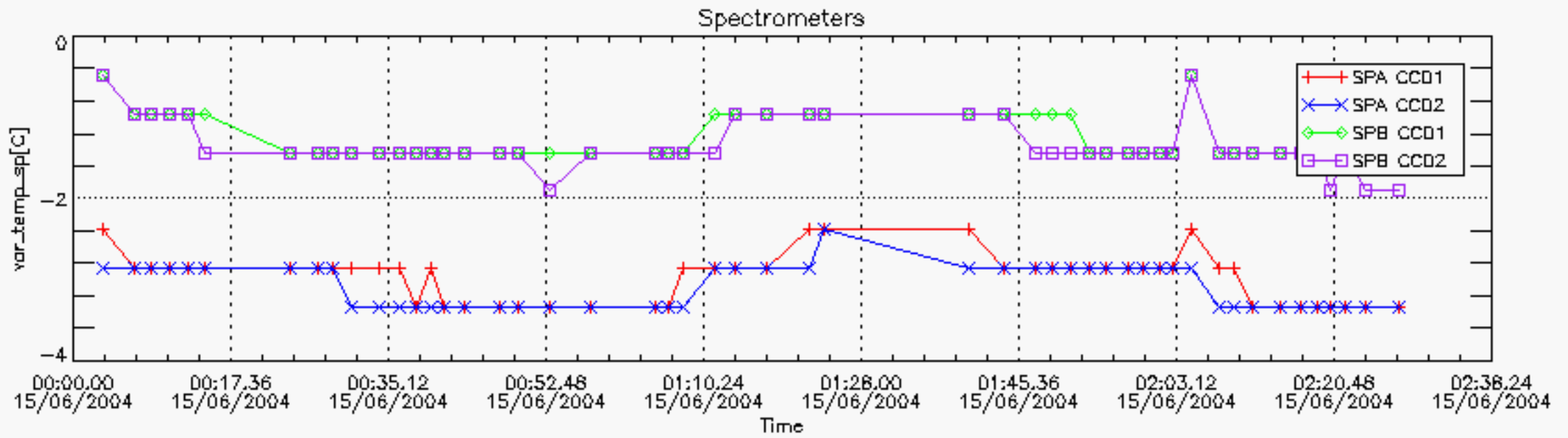
### Tangent altitude at which the star is lost

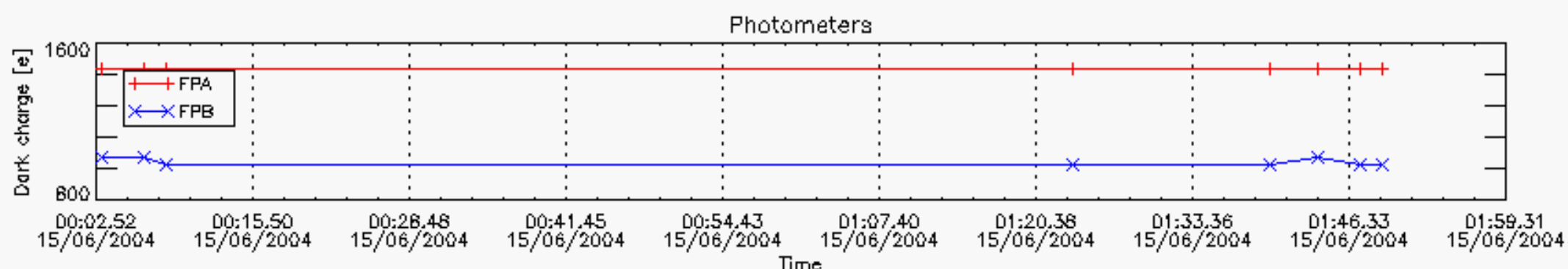
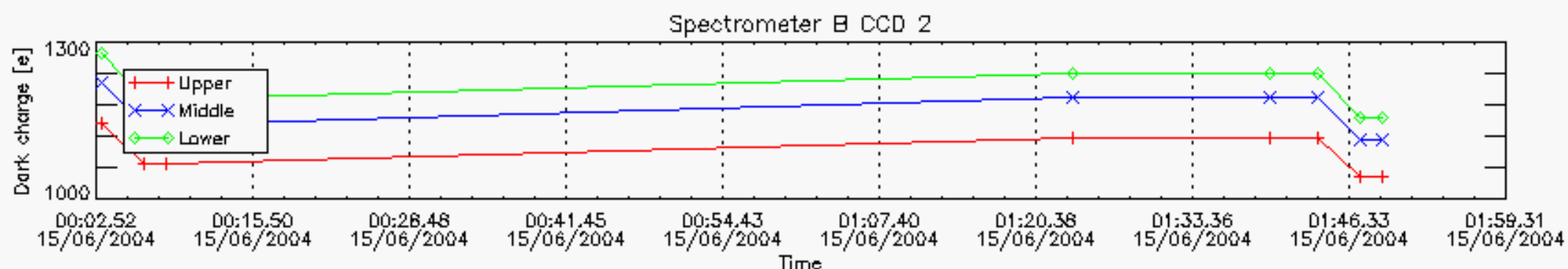
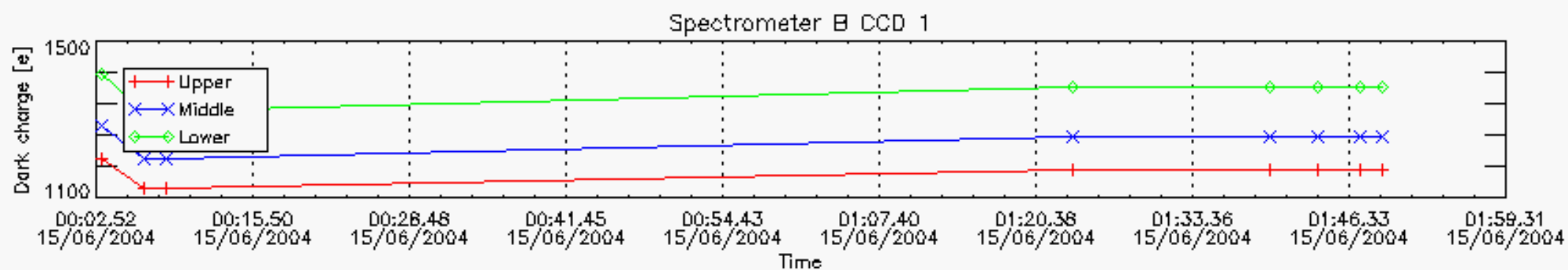
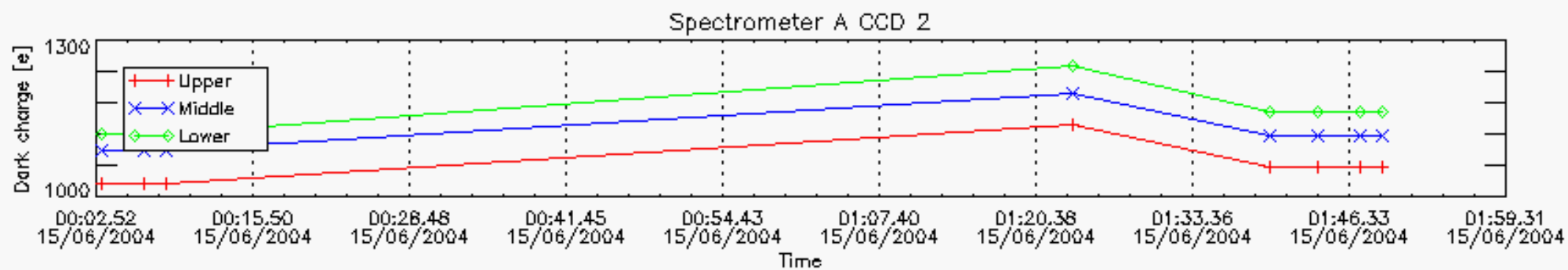
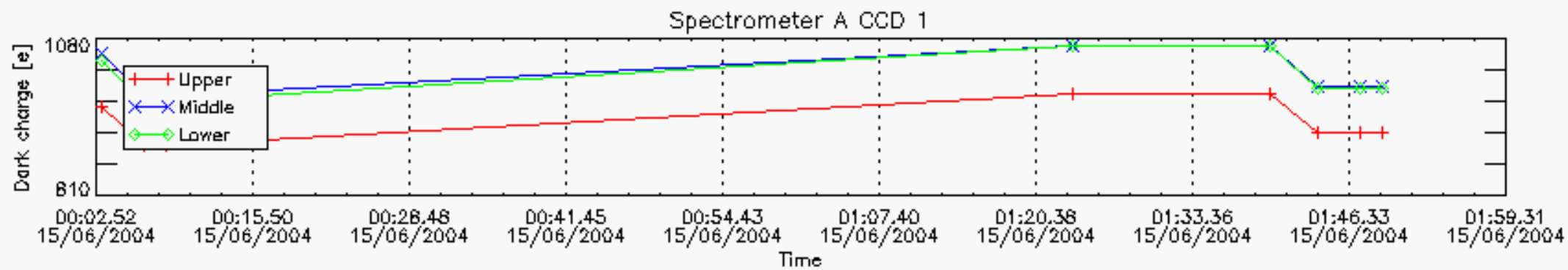


### 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1463.3	1449.6	1461.1	1446.7
St. deviation:	6.9403	8.3266	7.6779	8.7463
Maximum:	1529.0	1533.0	1506.0	1494.0
Minimum:	1431.0	1403.0	1428.0	1413.0
Number of data:	13100.	13100.	36350.	36350.

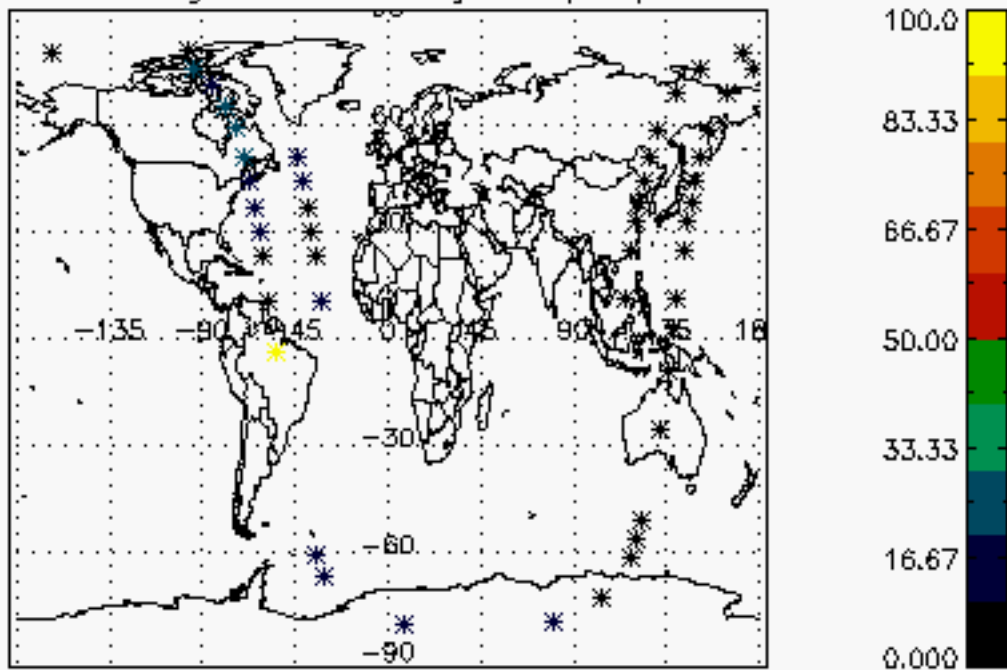




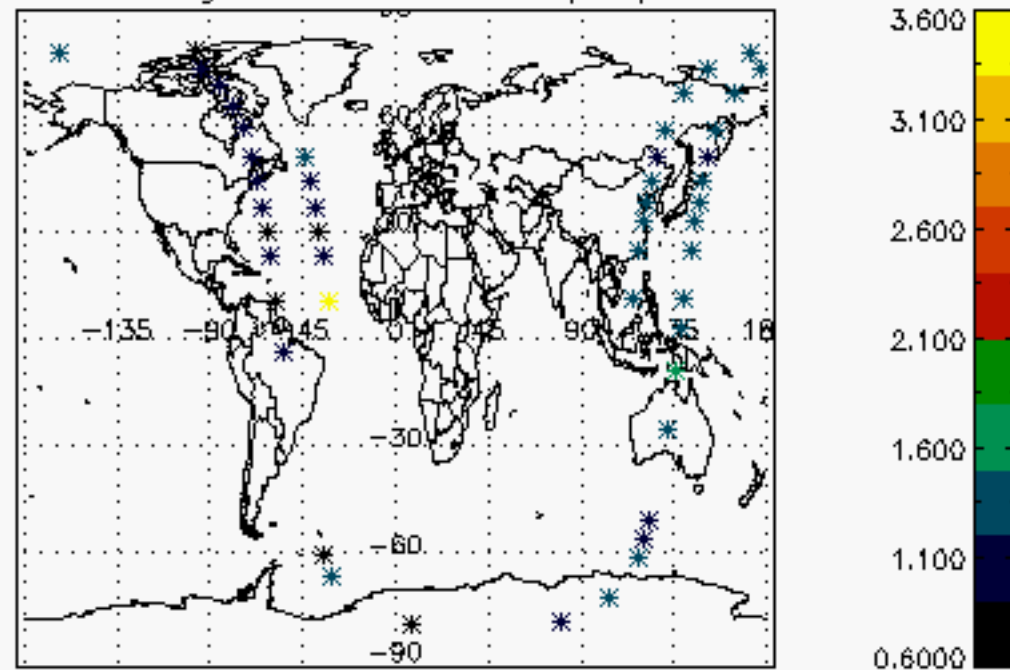




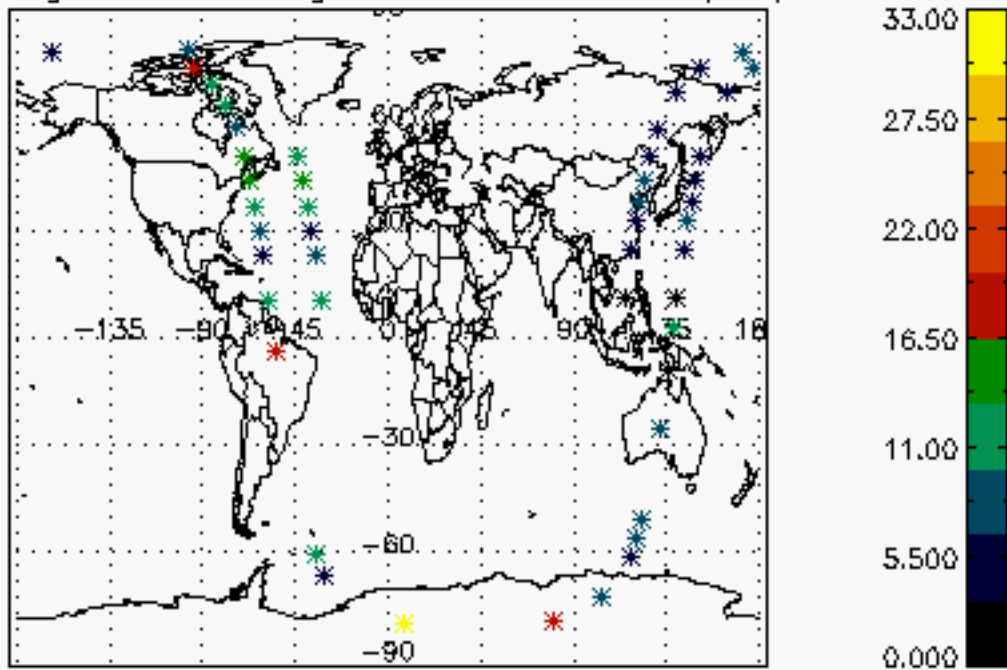
Percentage of cosmic ray hits per profile



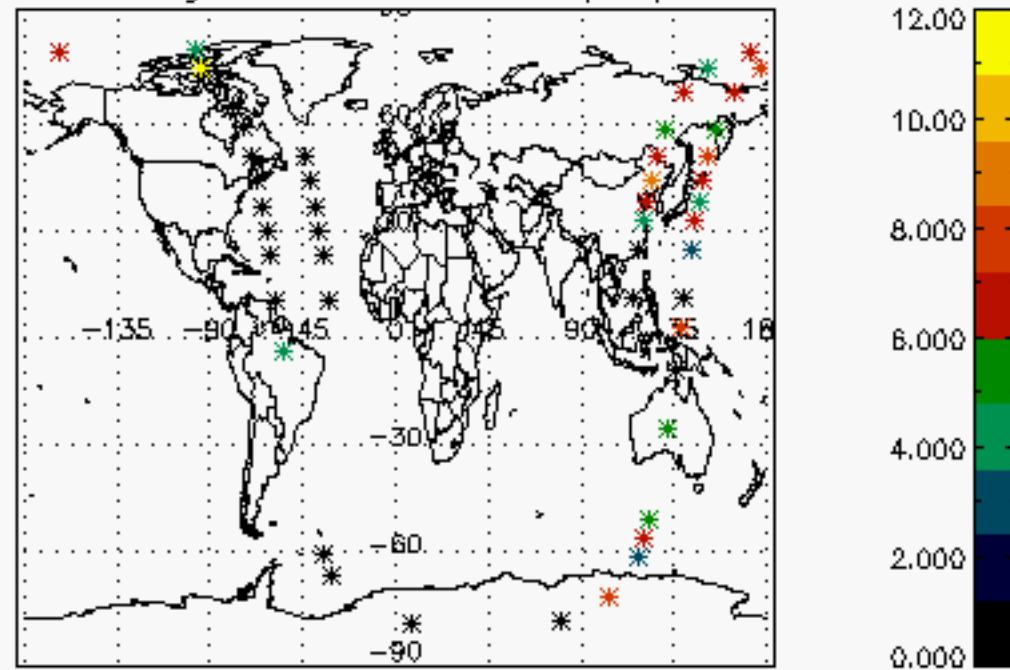
Percentage of datation errors per profile



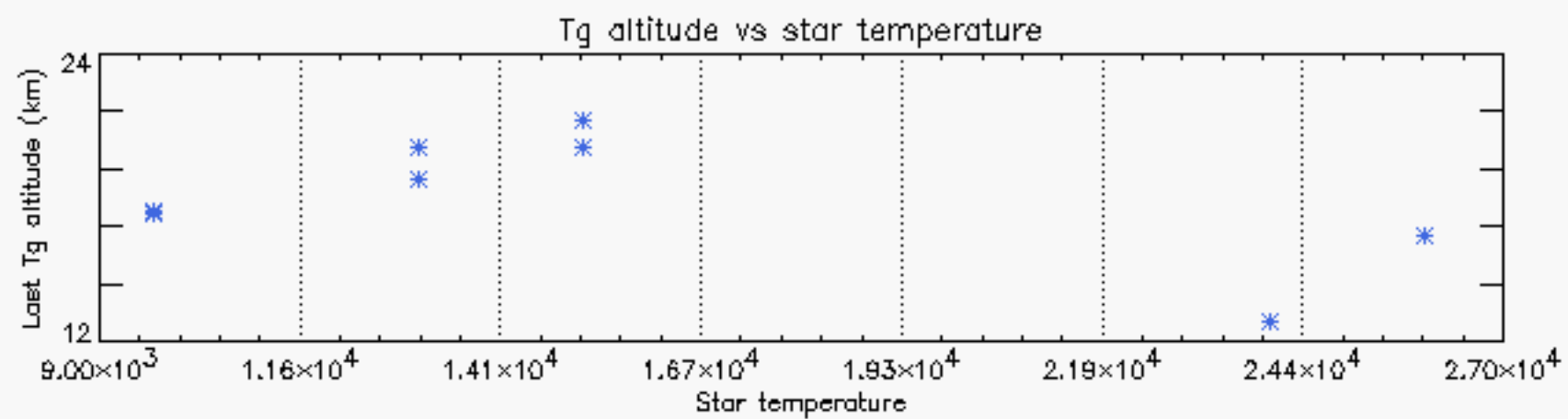
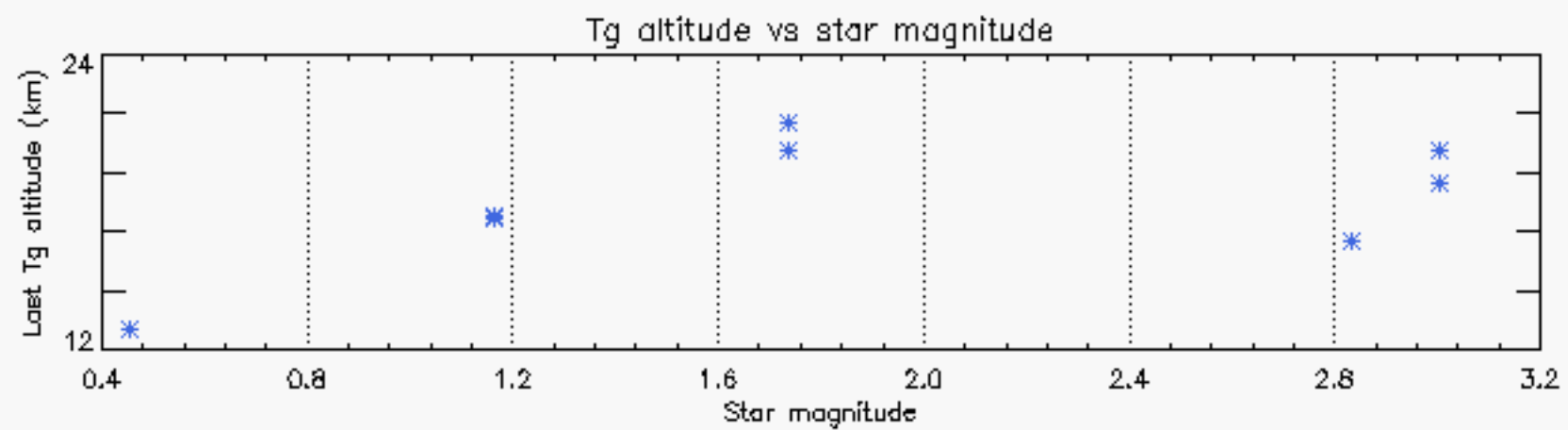
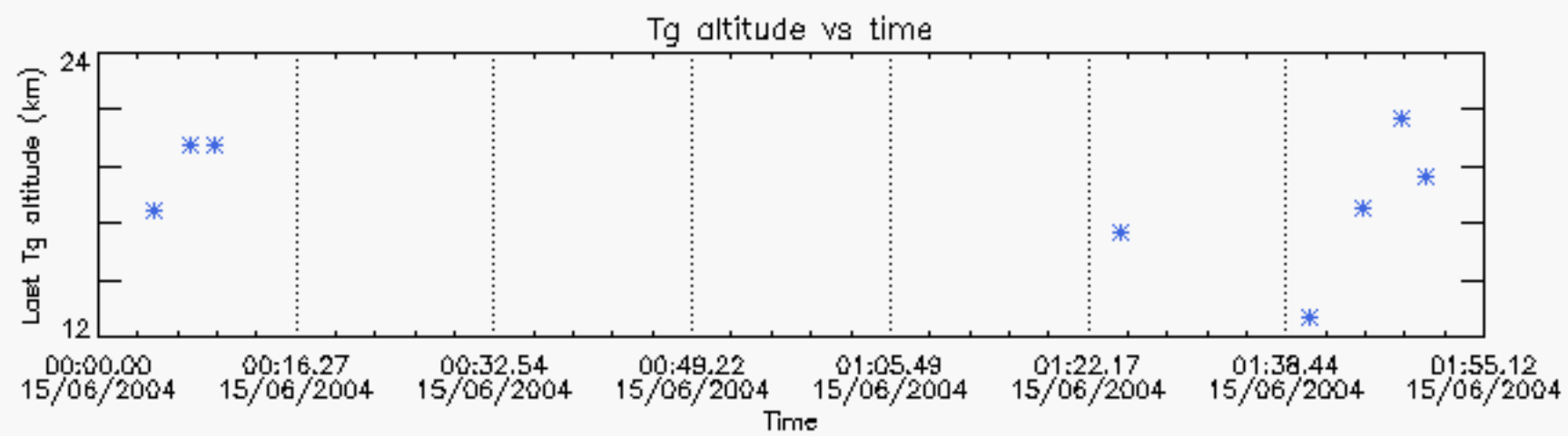
Percentage of star falling outside central band per profile



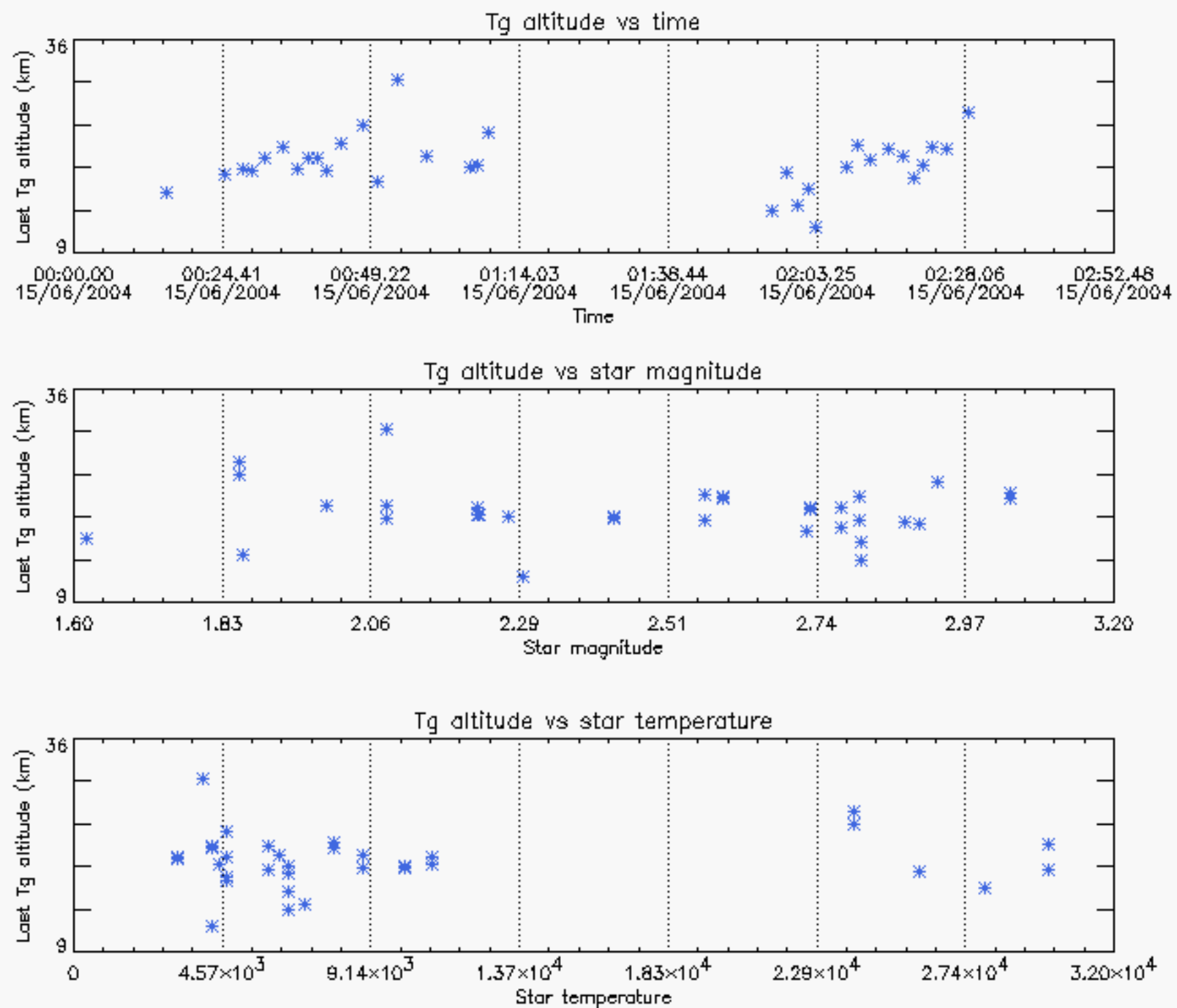
Percentage of saturation errors per profile



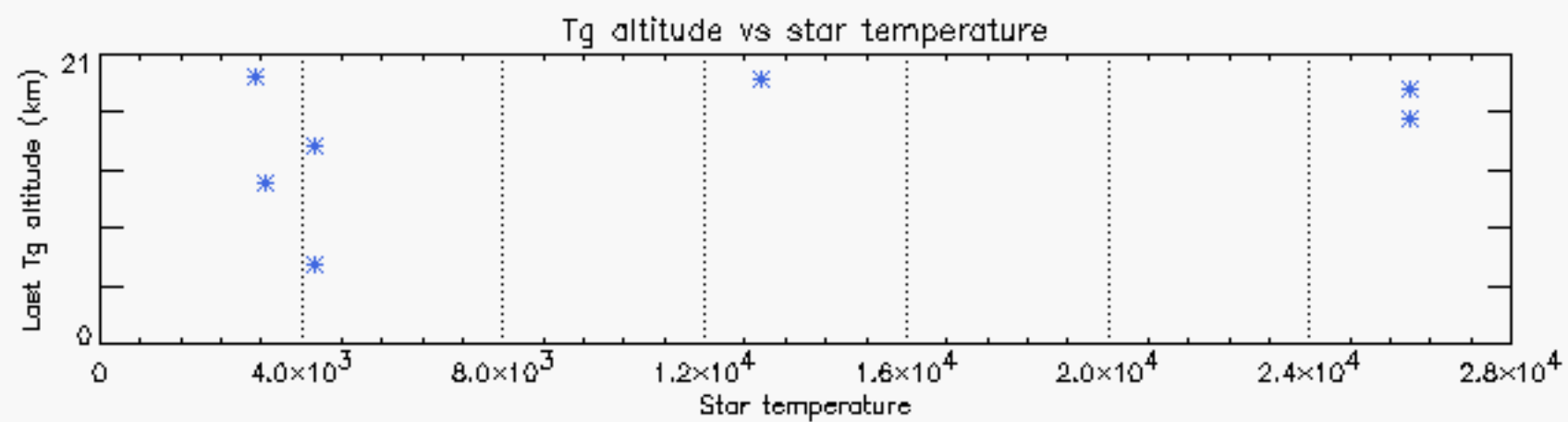
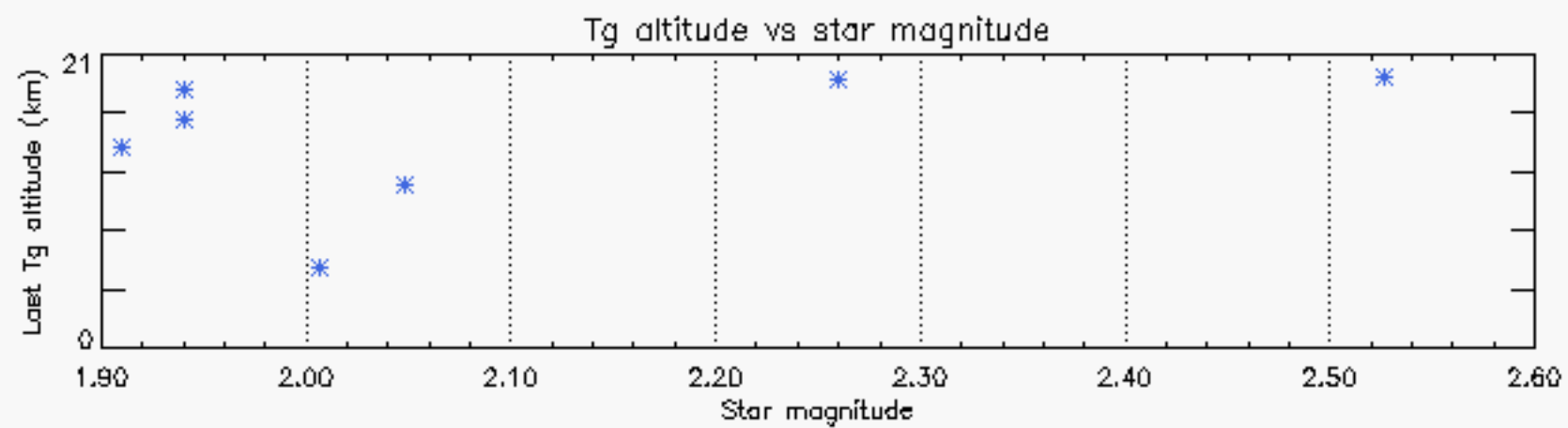
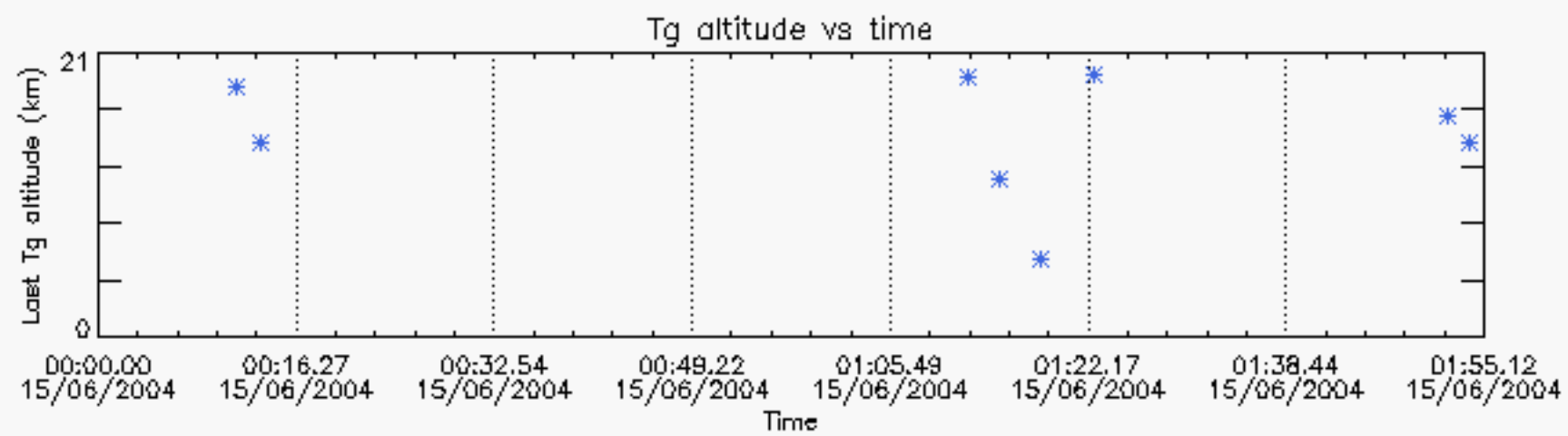
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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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	
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15;	-1385.8;	01-JUN-2004	06:59:58;	Dark	;	91.0;	93;	53Bet Peg	;	2.52;	3100;occ;	182;	0;	11783
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17;	-975.5;	01-JUN-2004	07:06:48;	Dark	;	89.0;	90;	54Alp Peg	;	2.49;	11000;occ;	178;	0;	11783
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19;	-471.2;	01-JUN-2004	07:15:12;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	11783
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23;	196.7;	01-JUN-2004	07:26:20;	Dark	;	48.5;	31;	Alp Gru	;	1.73;	15200;occ;	97;	0;	11784
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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
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32;	1498.2;	01-JUN-2004	07:48:02;	Bright;	41.5;	80;	7Del Sco	;	2.32;	30000;occ;	83;	0;	11784	
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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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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	
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11;	-2413.8;	01-JUN-2004	08:23:26;	Bright;	48.5;	89;	5Alp Cep	;	2.45;	8000;occ;	97;	0;	11784	
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13;	-1385.0;	01-JUN-2004	08:40:34;	Dark	;	94.0;	93;	53Bet Peg	;	2.52;	3100;occ;	188;	0;	11784
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16;	-639.4;	01-JUN-2004	08:53:00;	Dark	;	48.0;	52;	16Bet Cet	;	2.04;	4500;occ;	96;	0;	11784
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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
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 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  
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 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  
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 22; -237.6; 01-JUN-2004 10:40:18; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;11785  
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 24; 84.9; 01-JUN-2004 10:45:40; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;11786  
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 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  
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 31; 1146.9; 01-JUN-2004 11:03:22; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;11786  
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 33; 1373.3; 01-JUN-2004 11:07:09; Dark ; 44.0; 136; 23Tau Sco ; 2.82; 30000;occ; 88; 0;11786  
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 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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9;	-3327.6;	23-JUN-2004	14:59:12;	Bright;	47.0;	5;	3Alp	Lyr	;	0.03;	11000;	occ;	94;	0;	12103	
10;	-3208.3;	23-JUN-2004	15:01:11;	Bright;	42.0;	130;	23Bet	Dra	;	2.80;	5800;	occ;	84;	0;	12103	
11;	-3088.2;	23-JUN-2004	15:03:12;	Bright;	42.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	84;	0;	12103	
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29;	954.3;	23-JUN-2004	16:10:34;	Dark	;	41.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	83;	0;	12104
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31;	1146.3;	23-JUN-2004	16:13:46;	Dark	;	45.5;	40;	The	Sco	;	1.86;	7100;	occ;	91;	0;	12104
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