

# GOMOS Daily Report 30-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	01JUL2004 03:43:15
Data source version	GOMOS/4.02
Start time of products	30-JUN-2004 (30JUN2004 00:00:00)
Stop time of products	01-JUL-2004 (01JUL2004 00:00:00)

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

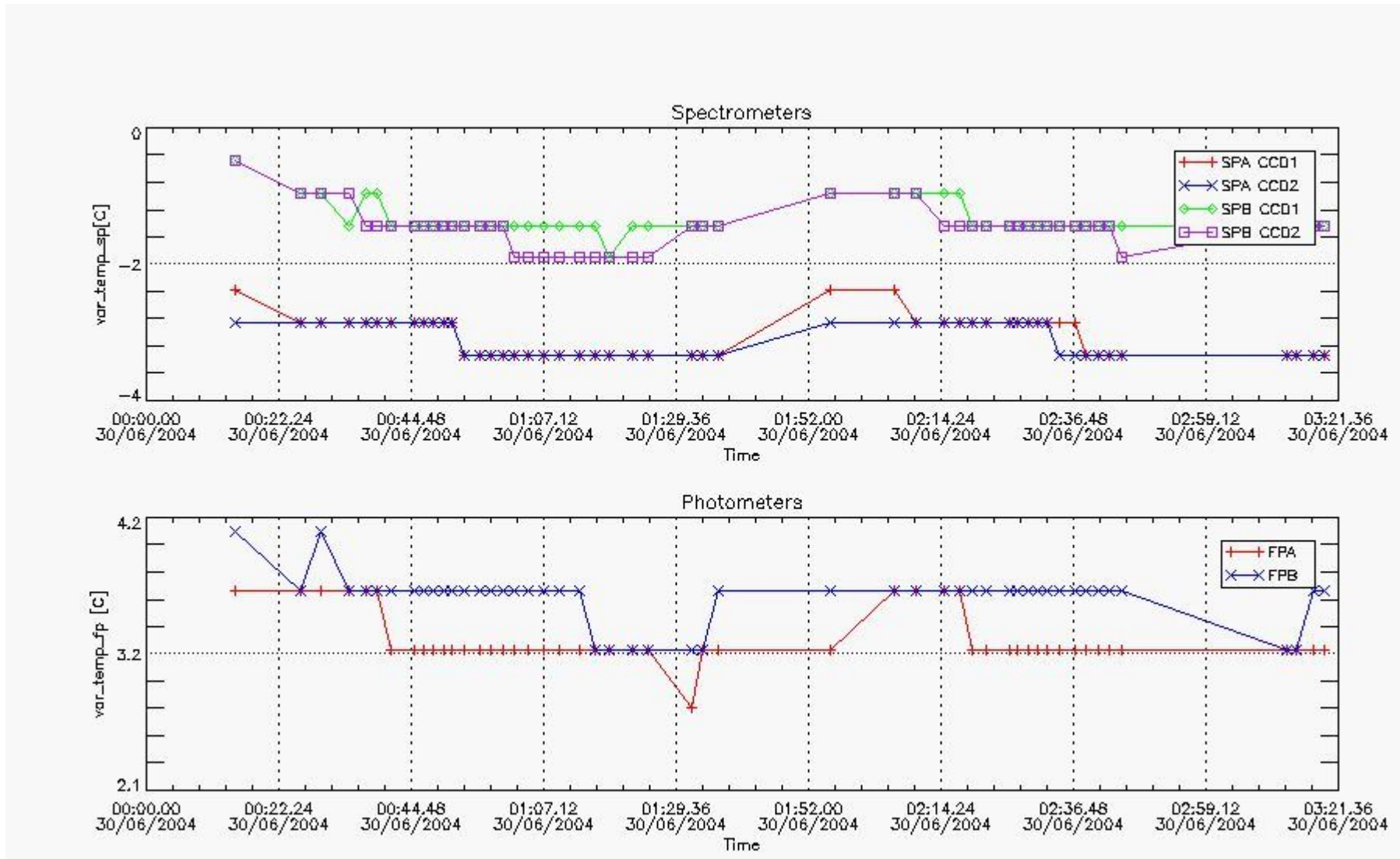
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040630_001509_000000452028_00116_12194_0000.N1	30-JUN-2004 00:15:09	Dark	45.000	165	34Gam Eri	2.9500	3200.0	90	12194	Yes
GOM_TRA_1PNPDE20040630_002557_000000722028_00116_12194_0001.N1	30-JUN-2004 00:25:57	Dark	72.000	52	16Bet Cet	2.0370	4500.0	144	12194	No
GOM_TRA_1PNPDE20040630_002938_000000452028_00117_12195_0002.N1	30-JUN-2004 00:29:38	Dark	44.500	9	Alp Eri	0.45300	24000.	89	12195	No
GOM_TRA_1PNPDE20040630_003420_000000402028_00117_12195_0003.N1	30-JUN-2004 00:34:20	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	12195	No
GOM_TRA_1PNPDE20040630_003703_000000572028_00117_12195_0004.N1	30-JUN-2004 00:37:03	Dark	56.500	63	Bet Gru	2.1500	2800.0	113	12195	No
GOM_TRA_1PNPDE20040630_003901_000000632028_00117_12195_0005.N1	30-JUN-2004 00:39:01	Twilight	62.500	31	Alp Gru	1.7340	15200.	125	12195	No
GOM_TRA_1PNPDE20040630_004126_000000442028_00117_12195_0006.N1	30-JUN-2004 00:41:26	Twilight	44.000	45	Alp Pav	1.9400	26000.	88	12195	No
GOM_TRA_1PNPDE20040630_004520_000000422028_00117_12195_0007.N1	30-JUN-2004 00:45:20	Bright	42.000	141	Bet Ara	2.8400	4600.0	84	12195	No
GOM_TRA_1PNPDE20040630_004647_000000402028_00117_12195_0008.N1	30-JUN-2004 00:46:47	Bright	39.500	147	Alp Ara	2.8770	26000.	79	12195	No
GOM_TRA_1PNPDE20040630_004835_000000442028_00117_12195_0009.N1	30-JUN-2004 00:48:35	Bright	43.500	40	The Sco	1.8590	7100.0	87	12195	No
GOM_TRA_1PNPDE20040630_005015_000000442028_00117_12195_0010.N1	30-JUN-2004 00:50:15	Bright	44.000	25	35Lam Sco	1.6200	28000.	88	12195	No
GOM_TRA_1PNPDE20040630_005140_000000542028_00117_12195_0011.N1	30-JUN-2004 00:51:40	Bright	54.000	116	19Del Sgr	2.7000	4100.0	108	12195	No
GOM_TRA_1PNPDE20040630_005345_000000472028_00117_12195_0012.N1	30-JUN-2004 00:53:45	Bright	46.500	155	41Pi Sgr	2.9000	6600.0	93	12195	No
GOM_TRA_1PNPDE20040630_005627_000000392028_00117_12195_0013.N1	30-JUN-2004 00:56:27	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	12195	No
GOM_TRA_1PNPDE20040630_005812_000000392028_00117_12195_0014.N1	30-JUN-2004 00:58:12	Bright	39.000	98	13Zet Oph	2.5710	30000.	78	12195	No
GOM_TRA_1PNPDE20040630_010023_000000382028_00117_12195_0015.N1	30-JUN-2004 01:00:23	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	12195	No
GOM_TRA_1PNPDE20040630_010208_000000392028_00117_12195_0016.N1	30-JUN-2004 01:02:08	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	12195	No
GOM_TRA_1PNPDE20040630_010428_000000402028_00117_12195_0017.N1	30-JUN-2004 01:04:28	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	12195	No
GOM_TRA_1PNPDE20040630_010709_000000392028_00117_12195_0018.N1	30-JUN-2004 01:07:09	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	12195	No
GOM_TRA_1PNPDE20040630_010954_000000382028_00117_12195_0019.N1	30-JUN-2004 01:09:54	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	12195	No
GOM_TRA_1PNPDE20040630_011323_000000422028_00117_12195_0020.N1	30-JUN-2004 01:13:23	Bright	41.500	5	3Alp Lyr	0.033000	11000.	83	12195	No
GOM_TRA_1PNPDE20040630_011557_000000392028_00117_12195_0021.N1	30-JUN-2004 01:15:57	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	12195	No
GOM_TRA_1PNPDE20040630_011819_000000382028_00117_12195_0022.N1	30-JUN-2004 01:18:19	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	12195	No
GOM_TRA_1PNPDE20040630_012217_000000392028_00117_12195_0023.N1	30-JUN-2004 01:22:17	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	12195	No
GOM_TRA_1PNPDE20040630_012457_000000472028_00117_12195_0024.N1	30-JUN-2004 01:24:57	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	12195	No
GOM_TRA_1PNPDE20040630_013217_000000502028_00117_12195_0025.N1	30-JUN-2004 01:32:17	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	12195	No
GOM_TRA_1PNPDE20040630_013358_000000492028_00117_12195_0026.N1	30-JUN-2004 01:33:58	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	12195	No
GOM_TRA_1PNPDE20040630_013650_000000552028_00117_12195_0027.N1	30-JUN-2004 01:36:50	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	12195	No
GOM_TRA_1PNPDE20040630_015546_000000462028_00117_12195_0000.N1	30-JUN-2004 01:55:46	Dark	45.500	165	34Gam Eri	2.9500	3200.0	91	12195	No
GOM_TRA_1PNPDE20040630_020635_000000782028_00117_12195_0001.N1	30-JUN-2004 02:06:35	Dark	77.500	52	16Bet Cet	2.0370	4500.0	155	12195	No
GOM_TRA_1PNPDE20040630_021014_000000432028_00118_12196_0002.N1	30-JUN-2004 02:10:14	Dark	42.500	9	Alp Eri	0.45300	24000.	85	12196	No
GOM_TRA_1PNPDE20040630_021455_000000402028_00118_12196_0003.N1	30-JUN-2004 02:14:55	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12196	No
GOM_TRA_1PNPDE20040630_021741_000000662028_00118_12196_0004.N1	30-JUN-2004 02:17:41	Dark	66.000	63	Bet Gru	2.1500	2800.0	132	12196	No
GOM_TRA_1PNPDE20040630_021938_000000502028_00118_12196_0005.N1	30-JUN-2004 02:19:38	Twilight	50.000	31	Alp Gru	1.7340	15200.	100	12196	No
GOM_TRA_1PNPDE20040630_022203_000000442028_00118_12196_0006.N1	30-JUN-2004 02:22:03	Twilight	43.500	45	Alp Pav	1.9400	26000.	87	12196	No
GOM_TRA_1PNPDE20040630_022556_000000432028_00118_12196_0007.N1	30-JUN-2004 02:25:56	Bright	42.500	141	Bet Ara	2.8400	4600.0	85	12196	No
GOM_TRA_1PNPDE20040630_022721_000000442028_00118_12196_0008.N1	30-JUN-2004 02:27:21	Bright	43.500	147	Alp Ara	2.8770	26000.	87	12196	No
GOM_TRA_1PNPDE20040630_022911_000000422028_00118_12196_0009.N1	30-JUN-2004 02:29:11	Bright	42.000	40	The Sco	1.8590	7100.0	84	12196	No
GOM_TRA_1PNPDE20040630_023051_000000462028_00118_12196_0010.N1	30-JUN-2004 02:30:51	Bright	45.500	25	35Lam Sco	1.6200	28000.	91	12196	No
GOM_TRA_1PNPDE20040630_023216_000000552028_00118_12196_0011.N1	30-JUN-2004 02:32:16	Bright	55.000	116	19Del Sgr	2.7000	4100.0	110	12196	No
GOM_TRA_1PNPDE20040630_023421_000000472028_00118_12196_0012.N1	30-JUN-2004 02:34:21	Bright	47.000	155	41Pi Sgr	2.9000	6600.0	94	12196	No
GOM_TRA_1PNPDE20040630_023701_000000422028_00118_12196_0013.N1	30-JUN-2004 02:37:01	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	12196	No
GOM_TRA_1PNPDE20040630_023848_000000392028_00118_12196_0014.N1	30-JUN-2004 02:38:48	Bright	39.000	98	13Zet Oph	2.5710	30000.	78	12196	No
GOM_TRA_1PNPDE20040630_024058_000000402028_00118_12196_0015.N1	30-JUN-2004 02:40:58	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	12196	No
GOM_TRA_1PNPDE20040630_024244_000000392028_00118_12196_0016.N1	30-JUN-2004 02:42:44	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	12196	No
GOM_TRA_1PNPDE20040630_024504_000000402028_00118_12196_0017.N1	30-JUN-2004 02:45:04	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	12196	No
GOM_TRA_1PNPDE20040630_031251_000000502028_00118_12196_0000.N1	30-JUN-2004 03:12:51	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	12196	No
GOM_TRA_1PNPDE20040630_031433_000000502028_00118_12196_0001.N1	30-JUN-2004 03:14:33	Bright	49.500	68	18Alp Cas	2.2250	4500.0	99	12196	No
GOM_TRA_1PNPDE20040630_031726_000000372028_00118_12196_0002.N1	30-JUN-2004 03:17:26	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	12196	No

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



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

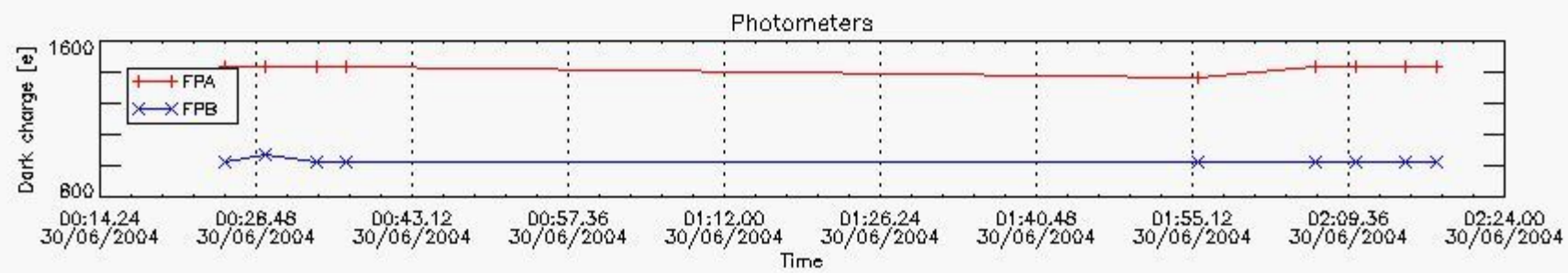
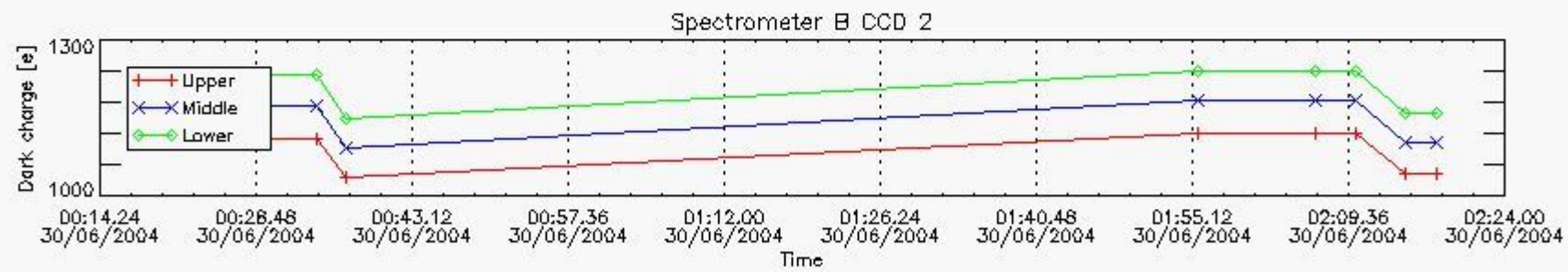
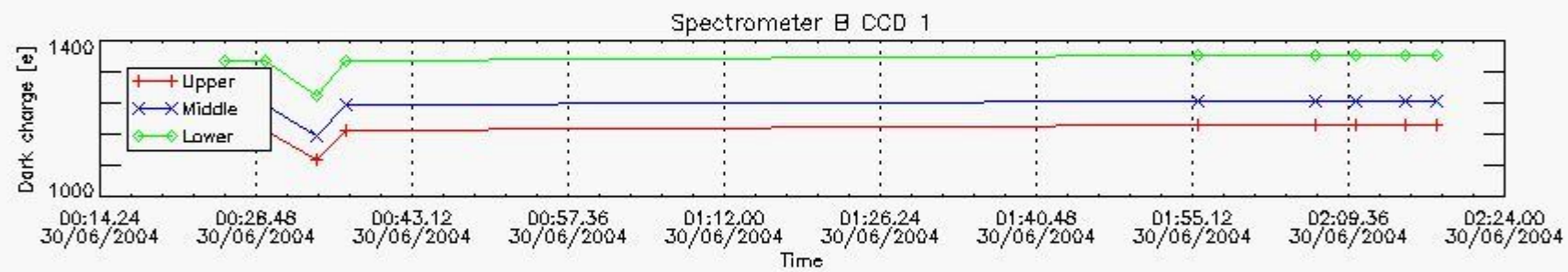
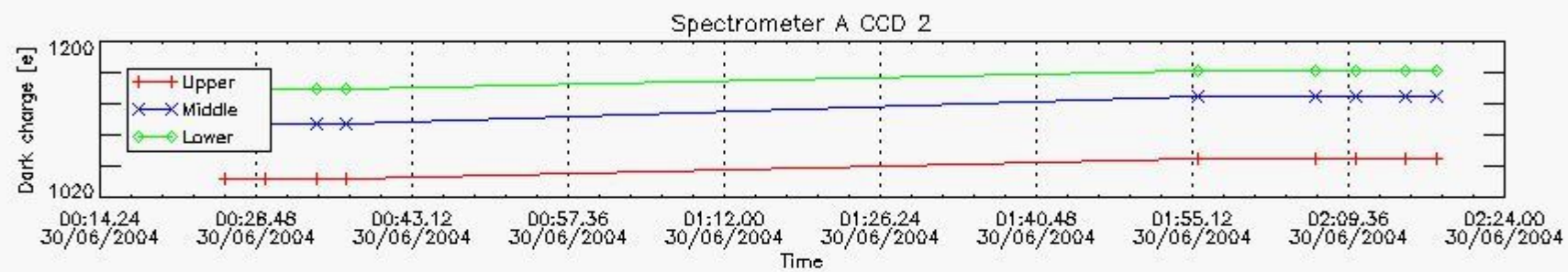
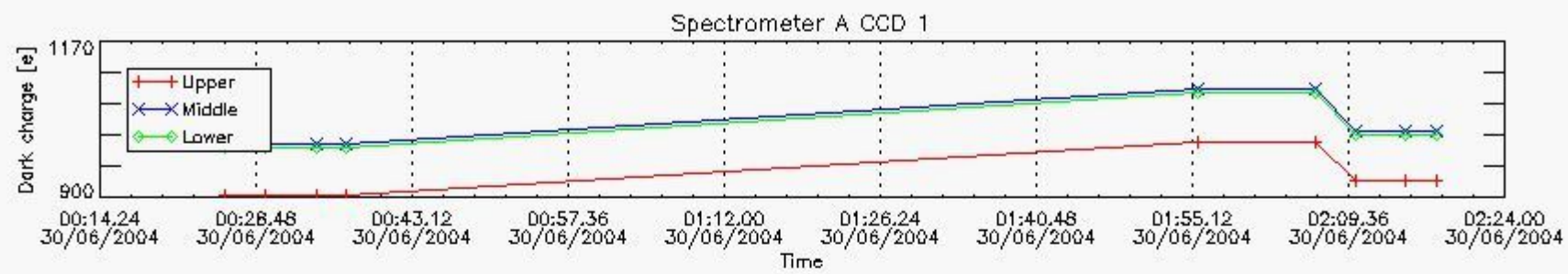
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





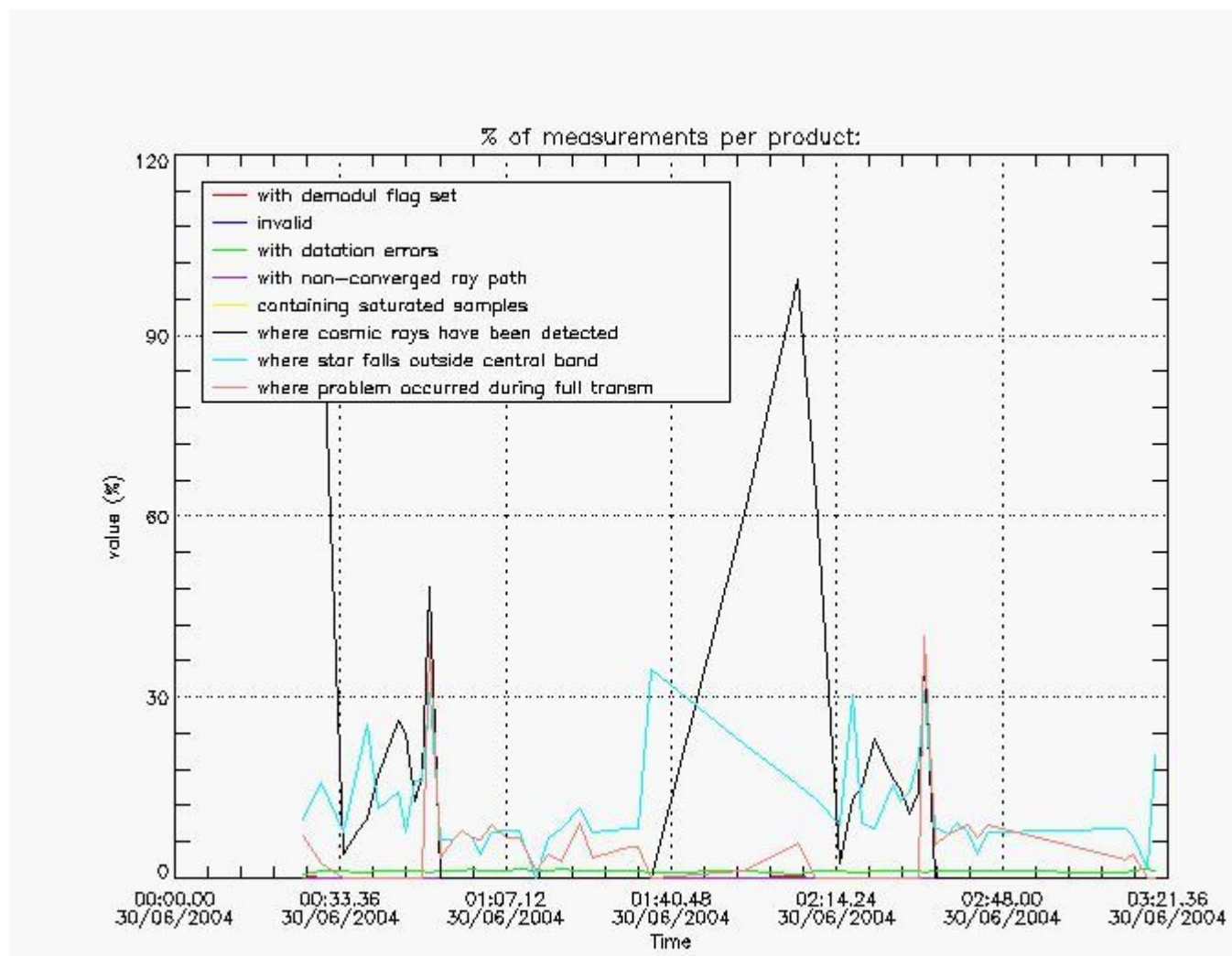
## 5. Demodulation flag and quality information monitoring

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:	10.2041 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

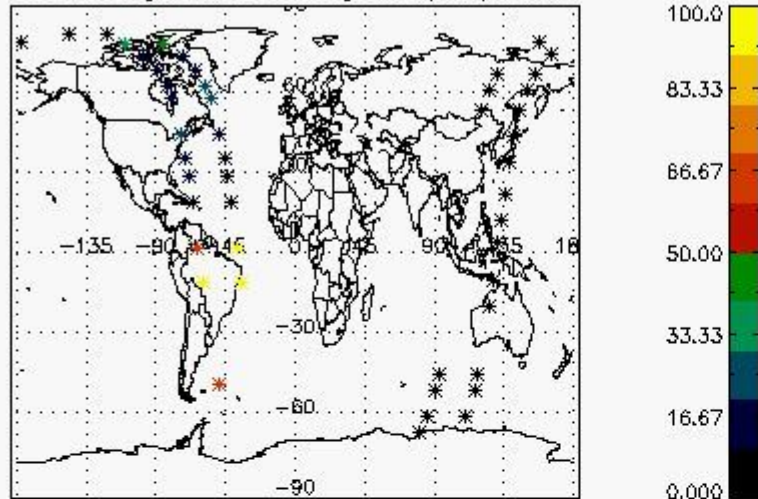
### 5.2 Plot quality information per product (time dependant)



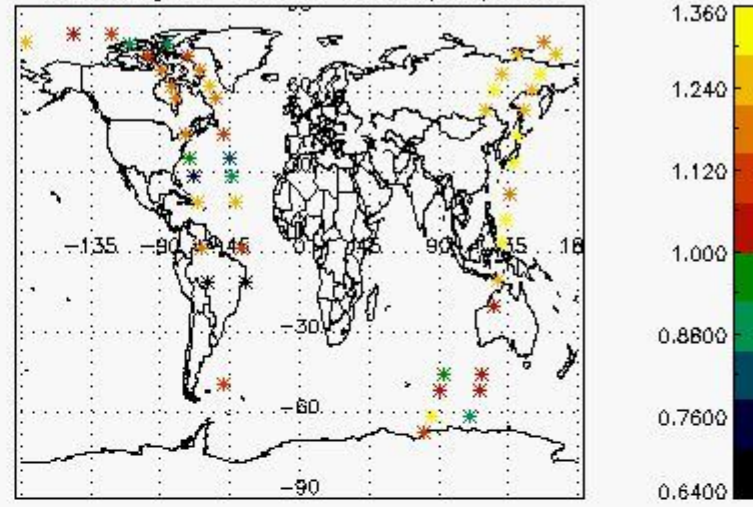
### 5.3 Plot quality information per product (world map)



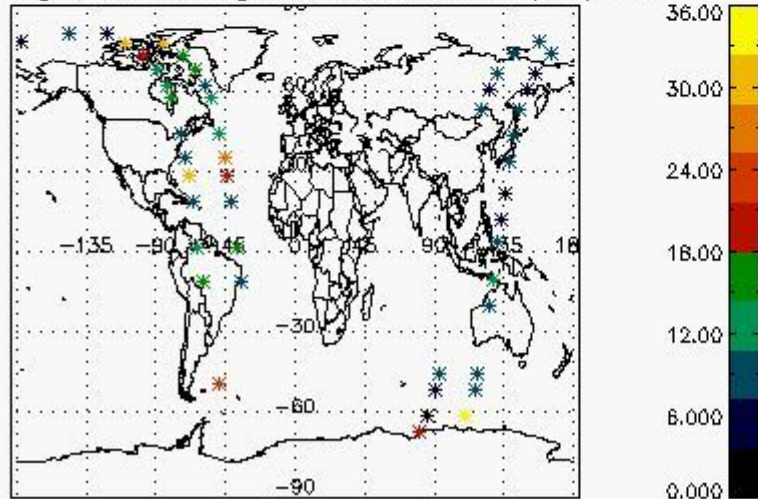
Percentage of cosmic ray hits per profile



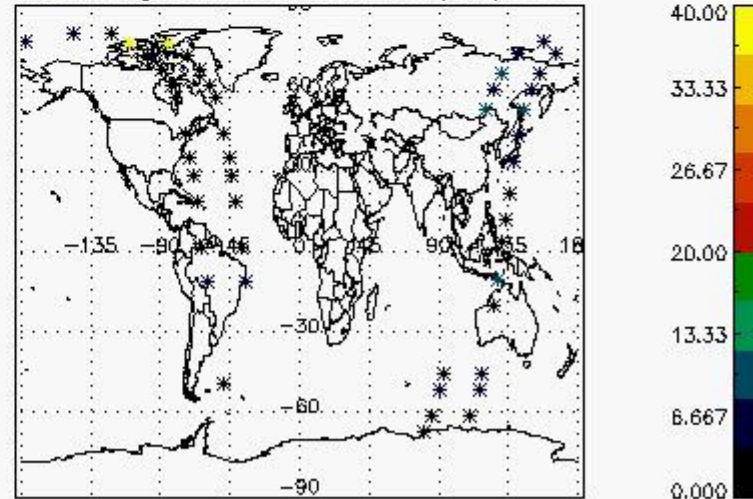
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



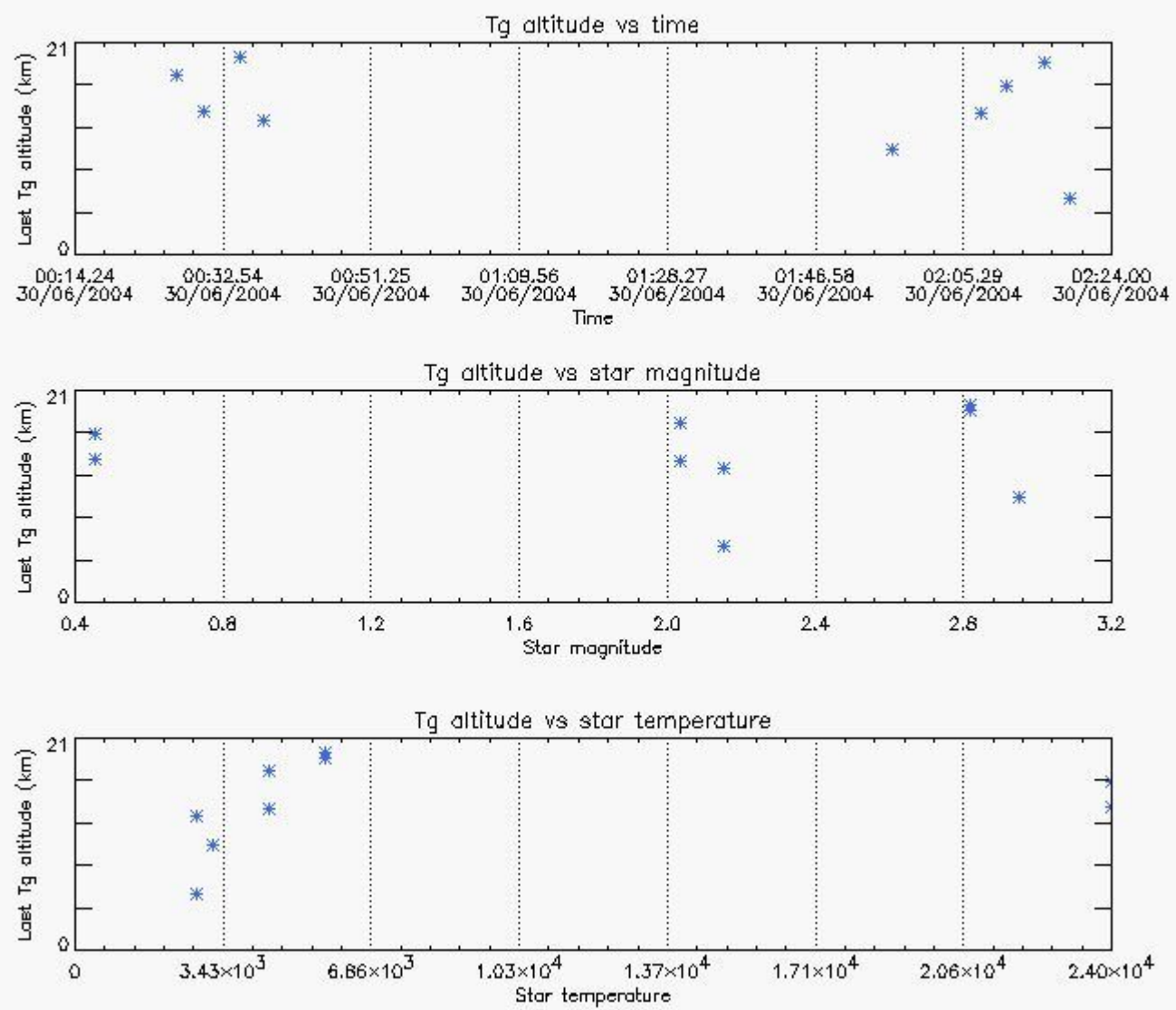
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.494	17.887	15.364
St. deviation:	4.4620	4.8877	4.9429
Maximum:	19.523	26.821	19.356
Minimum:	5.5482	4.8480	7.6669
Number of data:	9.0000	35.000	5.0000

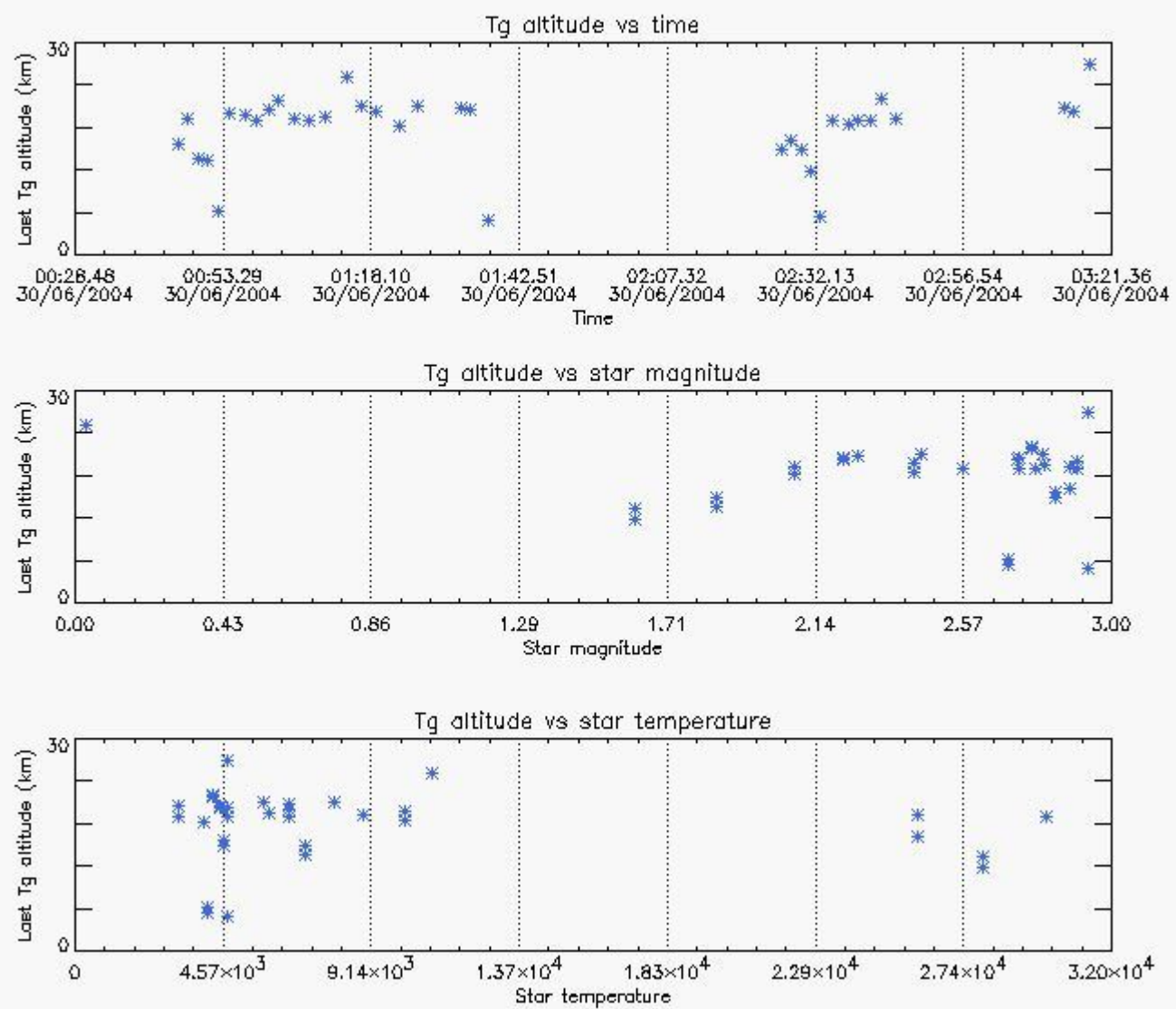
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

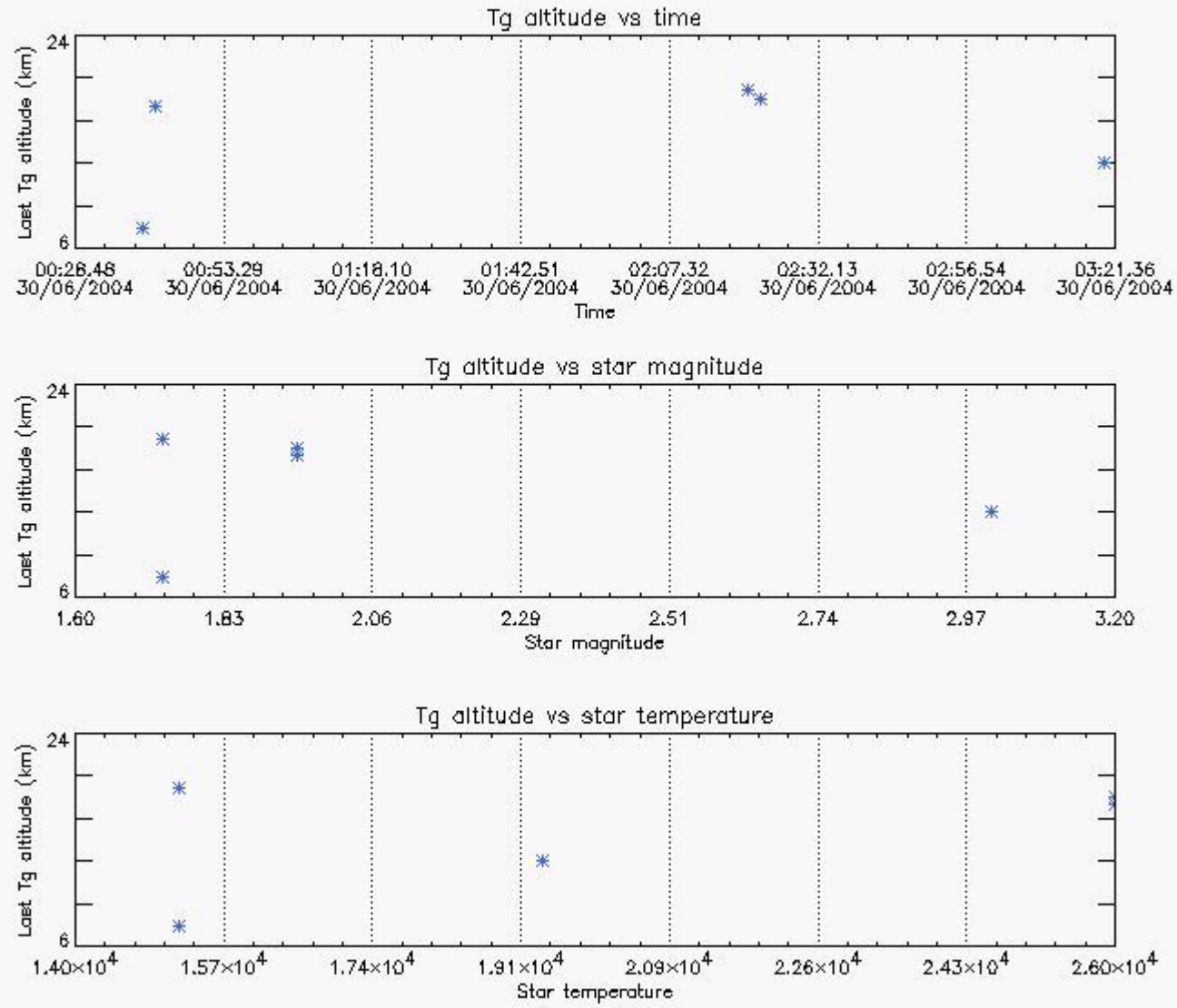
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



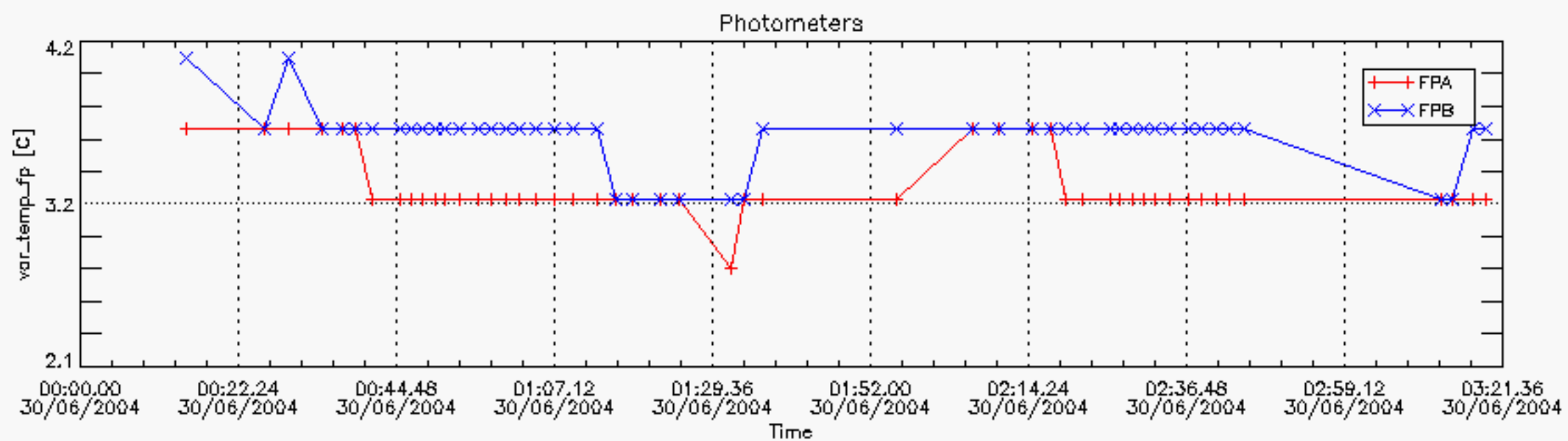
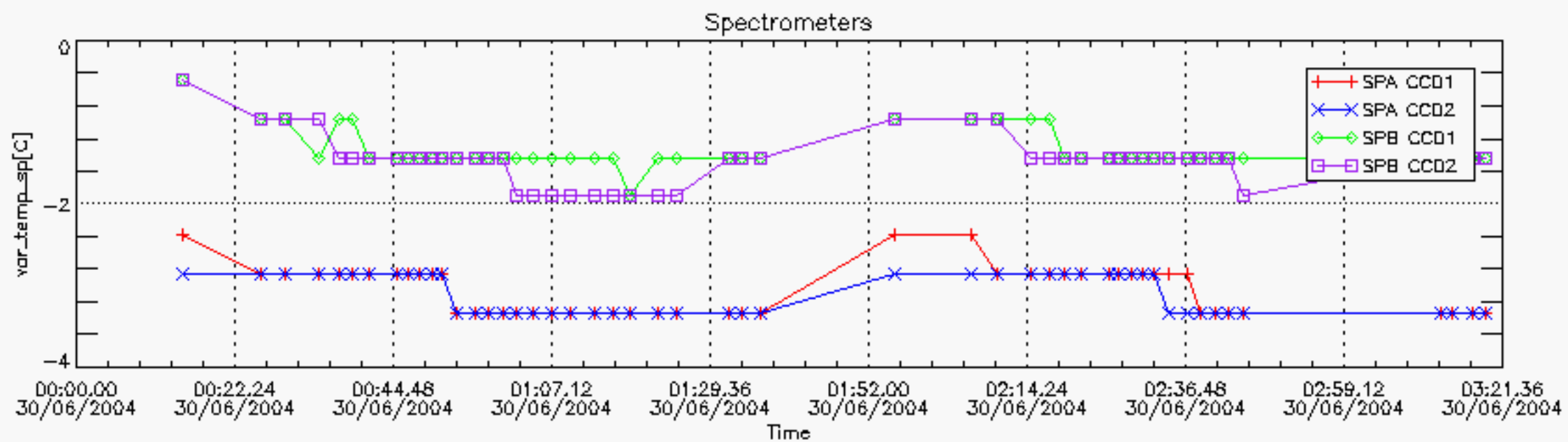
### Tangent altitude at which the star is lost

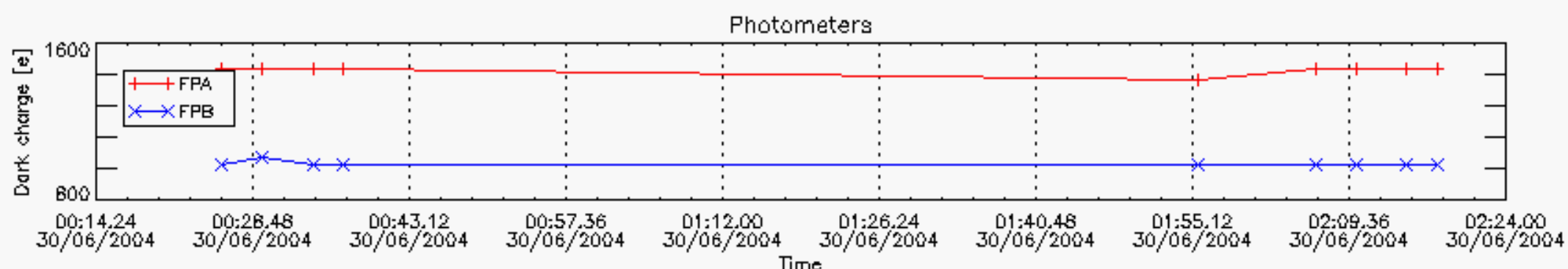
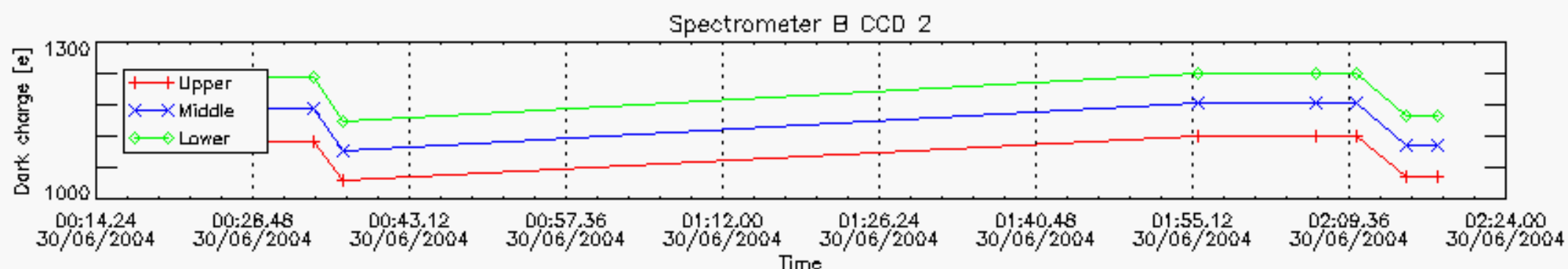
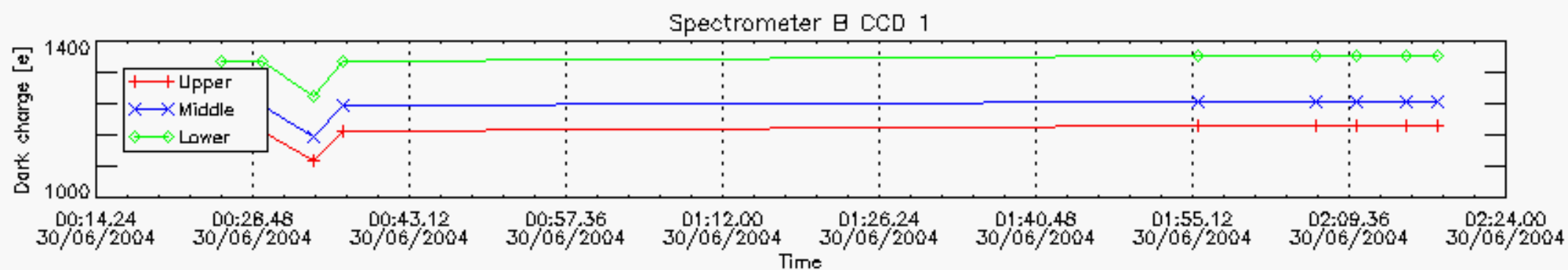
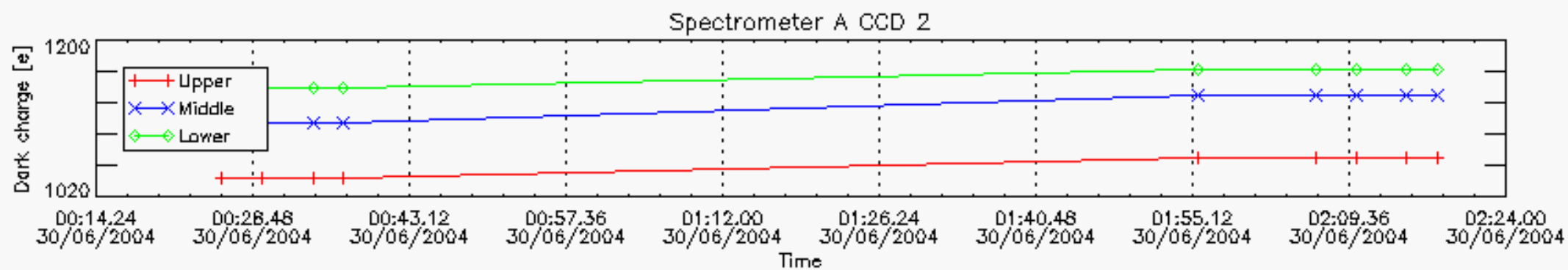
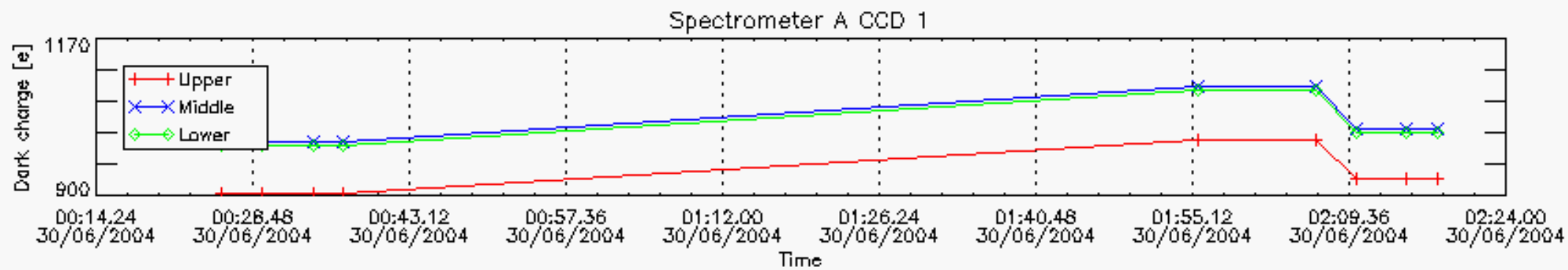


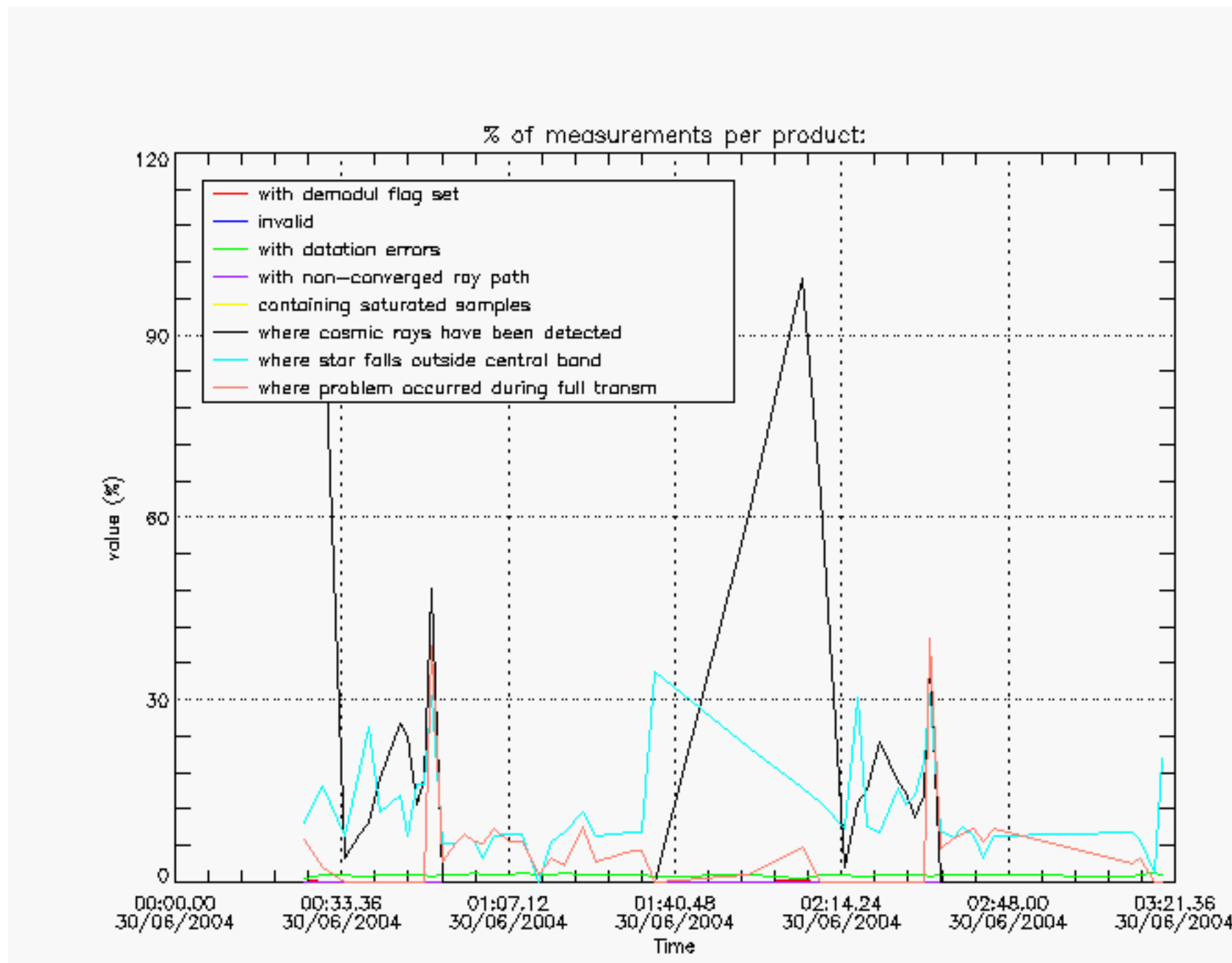
### 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1461.7	1447.2	1461.2	1447.0
St. deviation:	3.2900	4.7204	6.6307	7.8475
Maximum:	1483.0	1466.0	1507.0	1489.0
Minimum:	1449.0	1441.0	1435.0	1416.0
Number of data:	12150.	12150.	38950.	38950.

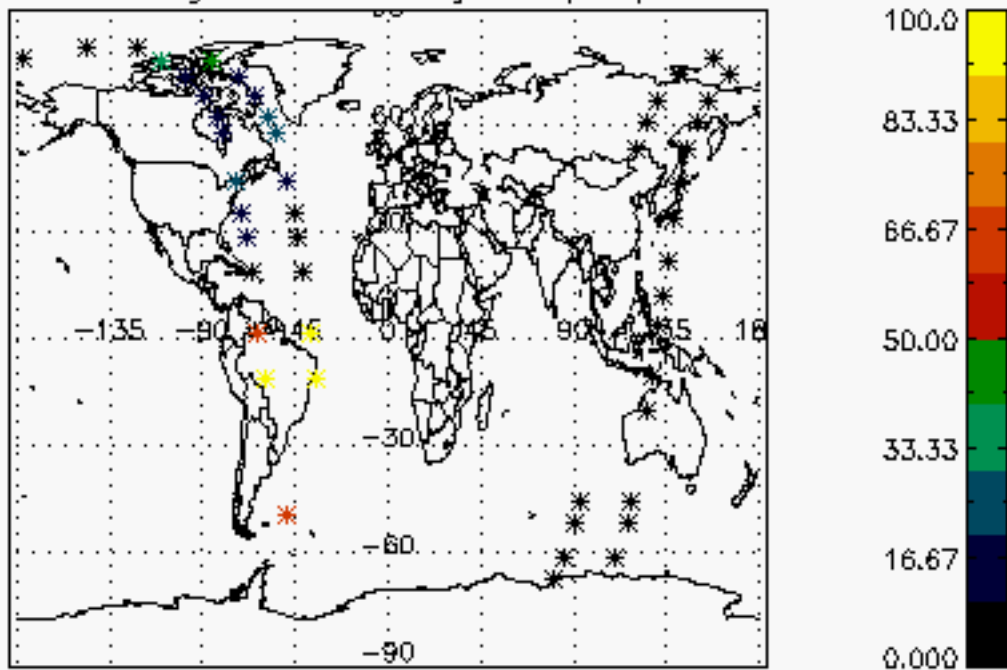




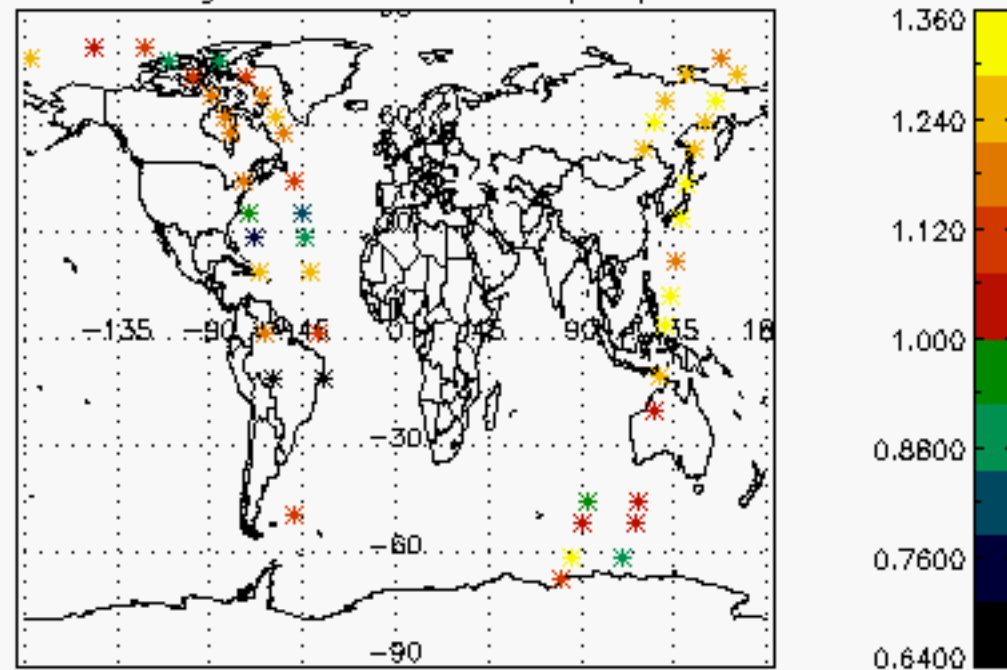




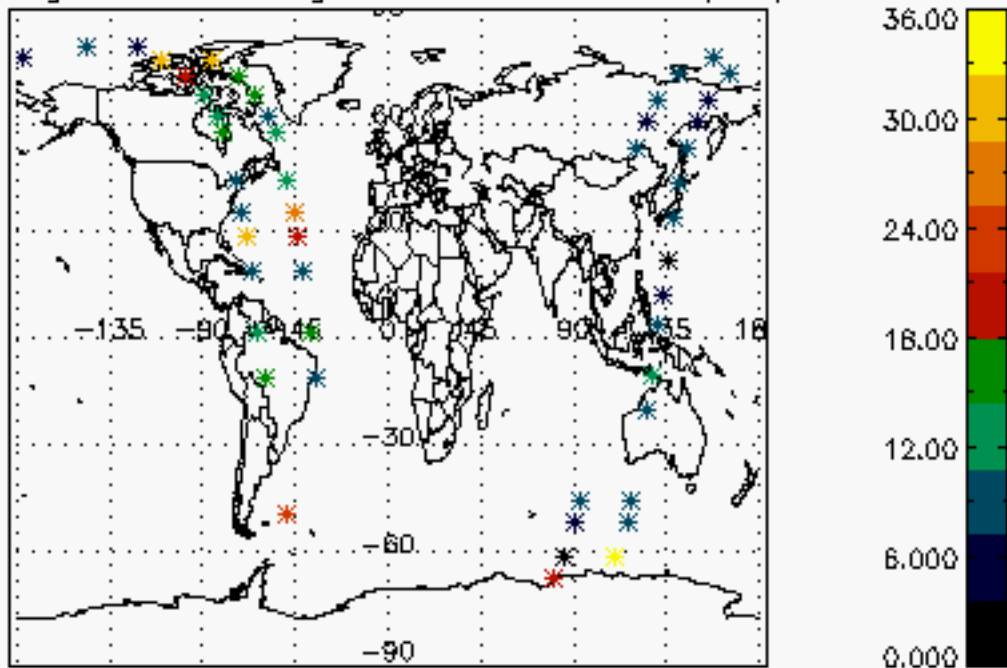
Percentage of cosmic ray hits per profile



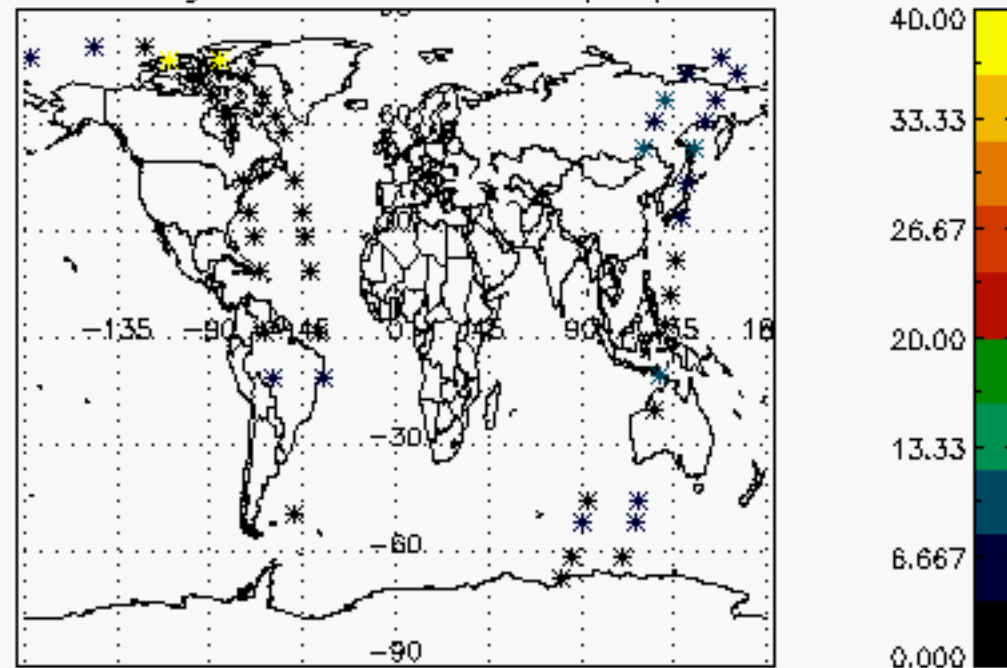
Percentage of datation errors per profile



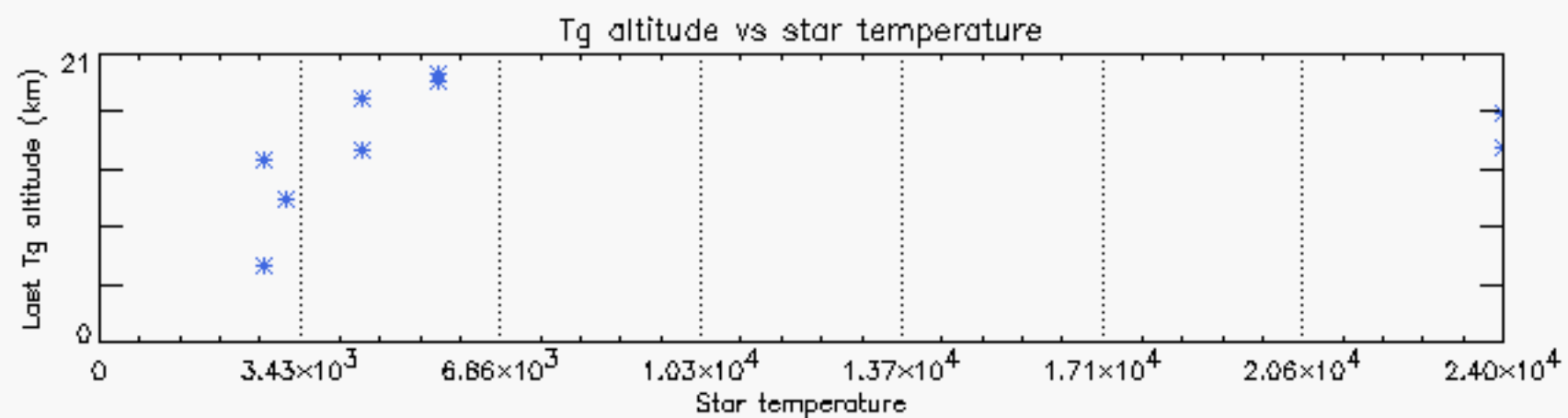
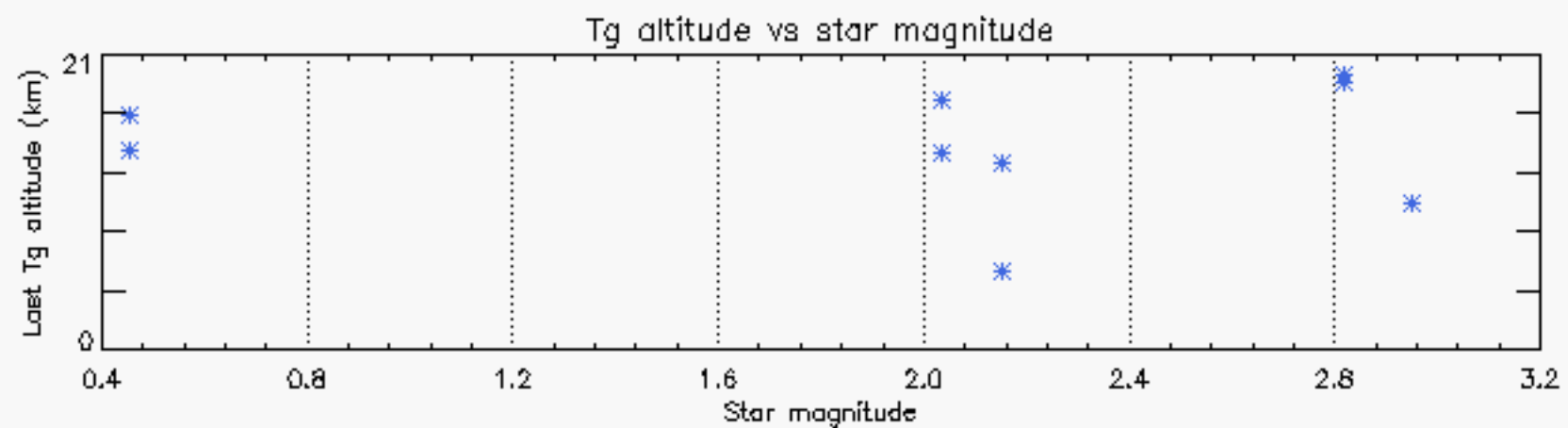
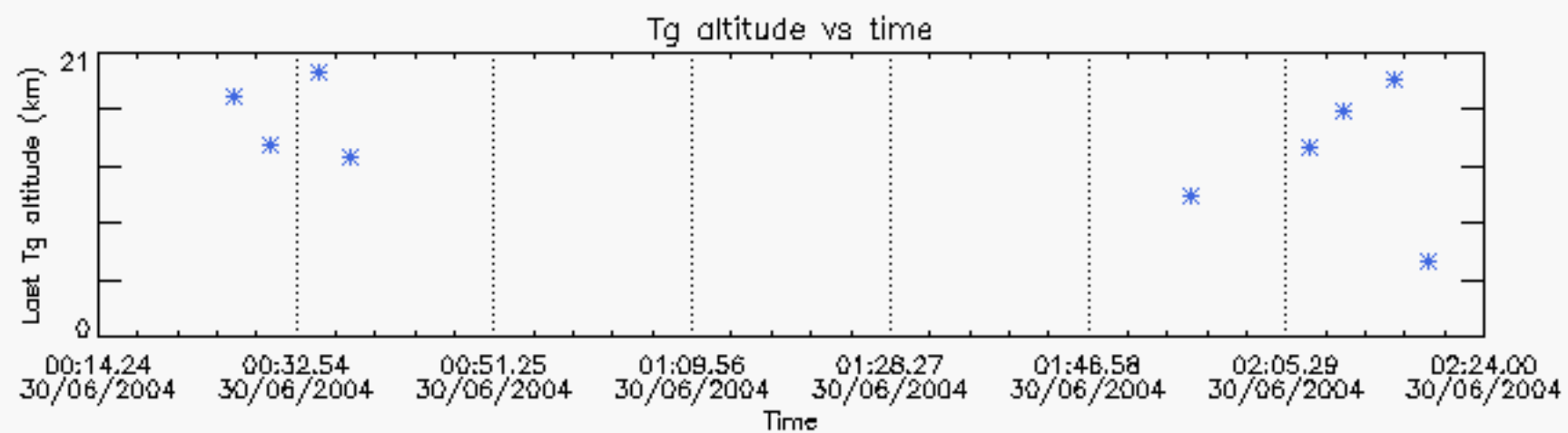
Percentage of star falling outside central band per profile



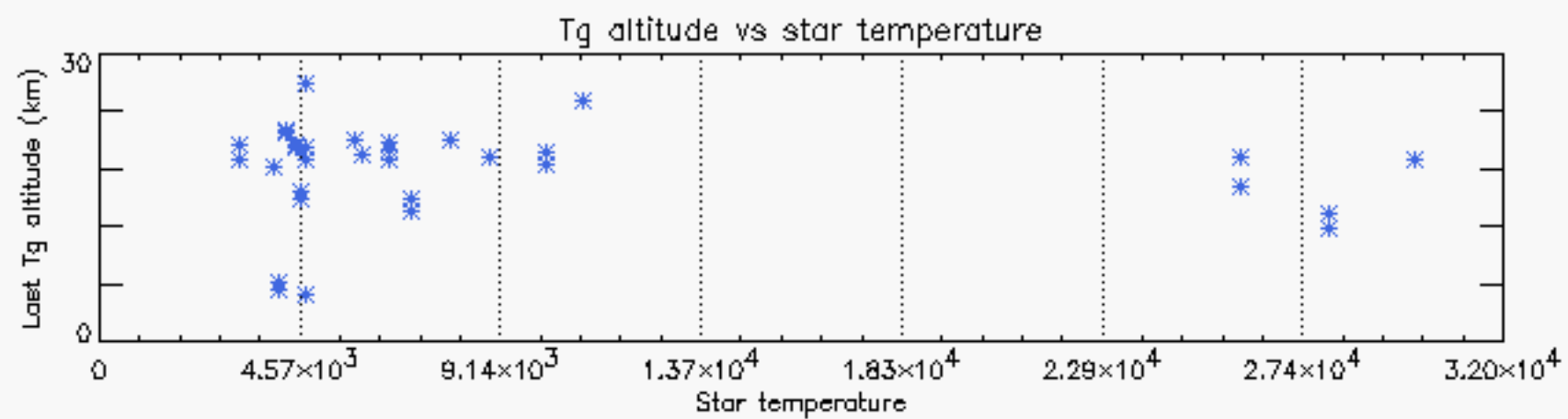
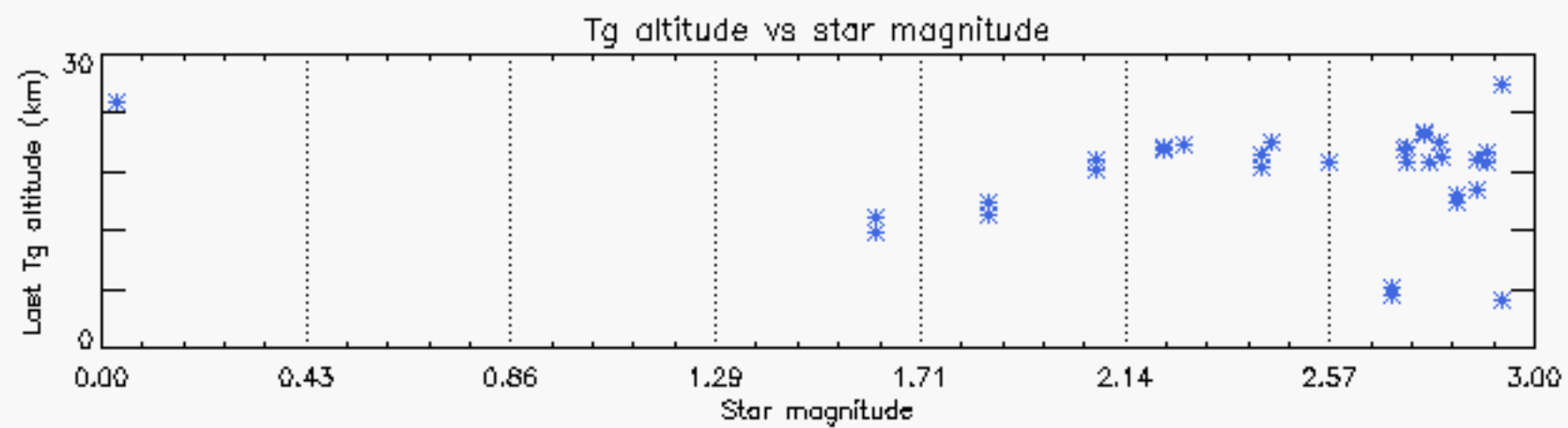
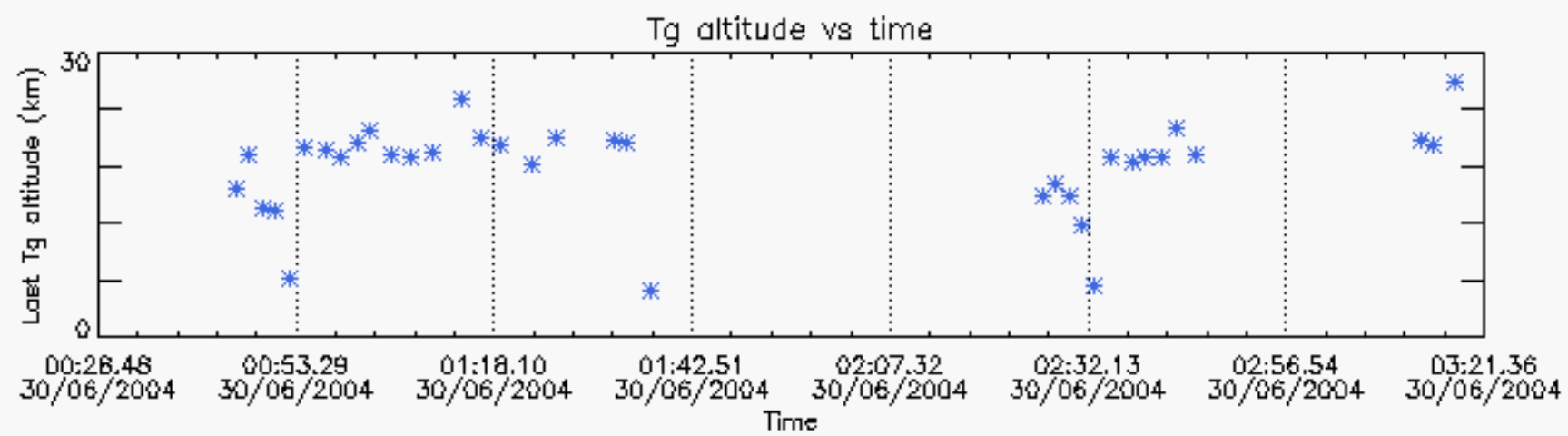
Percentage of saturation errors per profile



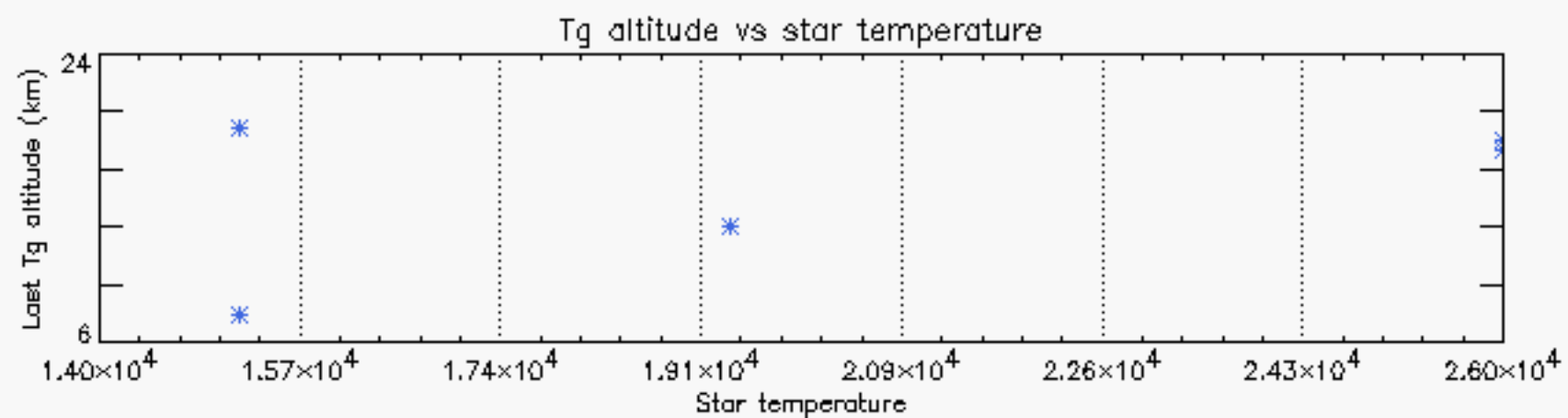
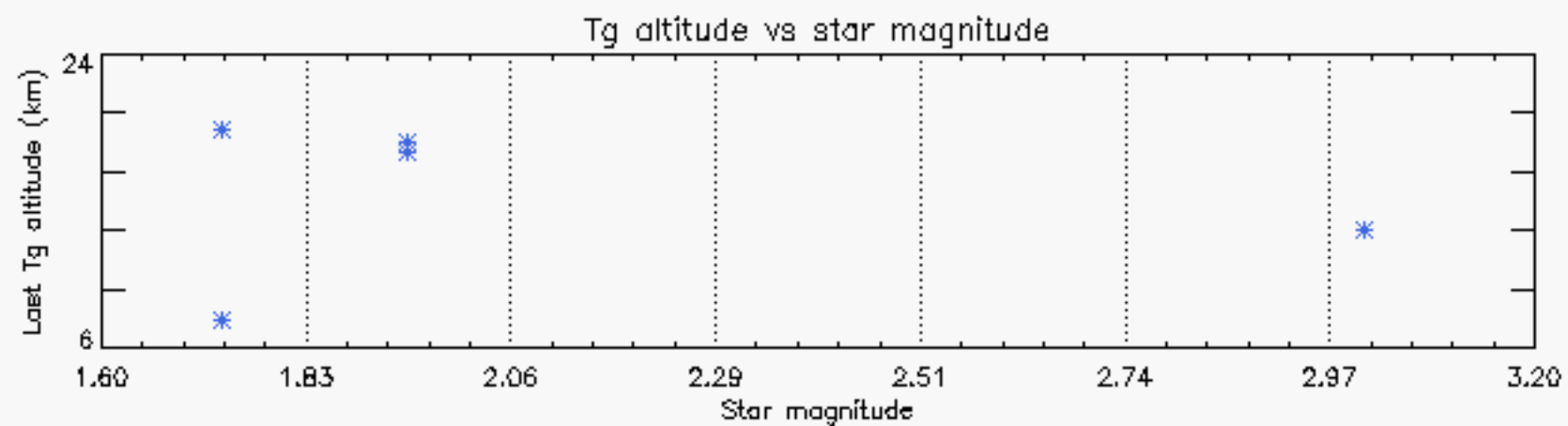
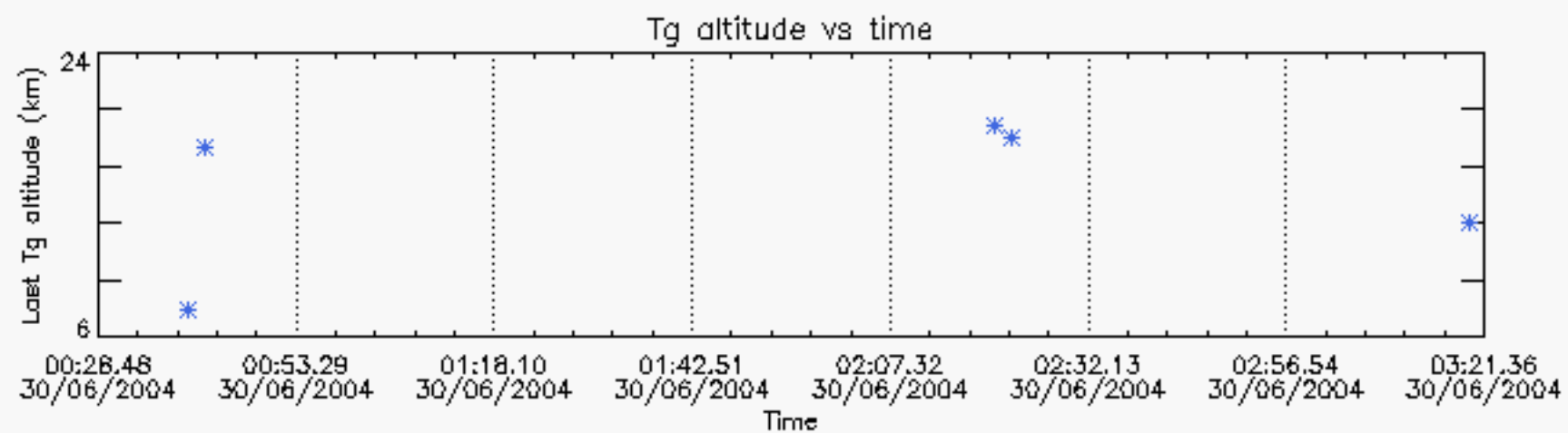
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 24; 492.8; 01-JUN-2004 07:31:16; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11784  
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 33; 1590.3; 01-JUN-2004 07:49:34; Bright; 47.5; 86; 35Eta Oph ; 2.43; 10200;occ; 95; 0;11784  
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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  
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 30; 938.2; 01-JUN-2004 12:40:29; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;11787  
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8;	-3650.5;	23-JUN-2004	14:53:49;	Bright;	39.5;	67;	5Alp	CrB	;	2.22;	11000;	occ;	79;	0;	12103	
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	
12;	-2859.6;	23-JUN-2004	15:07:00;	Bright;	41.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	82;	0;	12103	
13;	-2753.5;	23-JUN-2004	15:08:46;	Bright;	67.0;	19;	50Alp	Cyg	;	1.25;	10500;	occ;	134;	0;	12103	
14;	-2594.4;	23-JUN-2004	15:11:25;	Bright;	40.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	80;	0;	12103	
15;	-2203.8;	23-JUN-2004	15:17:56;	Bright;	47.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	95;	0;	12103	
16;	-2113.3;	23-JUN-2004	15:19:26;	Bright;	49.5;	68;	18Alp	Cas	;	2.22;	4500;	occ;	99;	0;	12103	
17;	-1972.0;	23-JUN-2004	15:21:48;	Bright;	54.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	108;	0;	12103	
18;	-1769.4;	23-JUN-2004	15:25:10;	Bright;	47.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	94;	0;	12103	
19;	-1619.9;	23-JUN-2004	15:27:40;	Dark	;	67.5;	53;	43Bet	And	;	2.05;	3300;	occ;	135;	0;	12103
20;	-1388.1;	23-JUN-2004	15:31:32;	Dark	;	56.5;	50;	13Alp	Ari	;	2.01;	4250;	occ;	113;	0;	12103
21;	-1097.9;	23-JUN-2004	15:36:22;	Dark	;	54.0;	94;	92Alp	Cet	;	2.53;	3100;	occ;	108;	0;	12103
22;	-861.7;	23-JUN-2004	15:40:18;	Dark	;	50.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	100;	0;	12103
23;	-510.9;	23-JUN-2004	15:46:09;	Dark	;	59.5;	0;	;	;	0.00;	0;	occ;	119;	0;	12103	
24;	-334.3;	23-JUN-2004	15:49:06;	Dark	;	74.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	148;	0;	12103
25;	291.2;	23-JUN-2004	15:59:31;	Dark	;	39.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	79;	0;	12104
26;	385.7;	23-JUN-2004	16:01:06;	Dark	;	56.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	112;	0;	12104
27;	507.7;	23-JUN-2004	16:03:08;	Dark	;	52.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	104;	0;	12104
28;	758.6;	23-JUN-2004	16:07:18;	Dark	;	42.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	84;	0;	12104
29;	954.3;	23-JUN-2004	16:10:34;	Dark	;	41.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	83;	0;	12104
30;	1038.8;	23-JUN-2004	16:11:59;	Dark	;	40.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	81;	0;	12104
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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3;	-4577.9;	23-JUN-2004	16:18:58;	Bright;	52.5;	155;	41Pi	Sgr	;	2.90;	6600;	occ;	105;	0;	12104	
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21;	-1619.9;	23-JUN-2004	17:08:16;	Dark	;	66.5;	53;	43Bet	And	;	2.05;	3300;	occ;	133;	0;	12104
22;	-1387.8;	23-JUN-2004	17:12:08;	Dark	;	55.5;	50;	13Alp	Ari	;	2.01;	4250;	occ;	111;	0;	12104
23;	-1097.7;	23-JUN-2004	17:16:58;	Dark	;	49.0;	94;	92Alp	Cet	;	2.53;	3100;	occ;	98;	0;	12104
24;	-859.8;	23-JUN-2004	17:20:56;	Dark	;	45.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	90;	0;	12104
25;	-510.9;	23-JUN-2004	17:26:45;	Dark	;	59.5;	0;	;	;	0.00;	0;	occ;	119;	0;	12104	
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27;	289.6;	23-JUN-2004	17:40:05;	Dark	;	41.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	82;	0;	12105
28;	387.0;	23-JUN-2004	17:41:43;	Dark	;	55.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	111;	0;	12105
29;	508.4;	23-JUN-2004	17:43:44;	Dark	;	51.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	103;	0;	12105
30;	758.0;	23-JUN-2004	17:47:54;	Dark	;	51.5;	43;	Alp	TrA	;	1.91;	4250;	occ;	103;	0;	12105
31;	954.5;	23-JUN-2004	17:51:10;	Dark	;	47.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	95;	0;	12105
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 24; 1637.7; 29-JUN-2004 04:49:15; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;12183  
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 27; 1979.8; 29-JUN-2004 04:54:57; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;12183  
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 34; 3186.7; 29-JUN-2004 05:15:04; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;12183  
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34; 3186.8; 29-JUN-2004 06:55:40; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;12184
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13; 2281.0; 29-JUN-2004 20:05:22; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;12192
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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
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