

# GOMOS Daily Report 09-SEP-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	17SEP2004 10:14:20
Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-8D (09SEP2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-8D (10SEP2004 00:00:00)

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

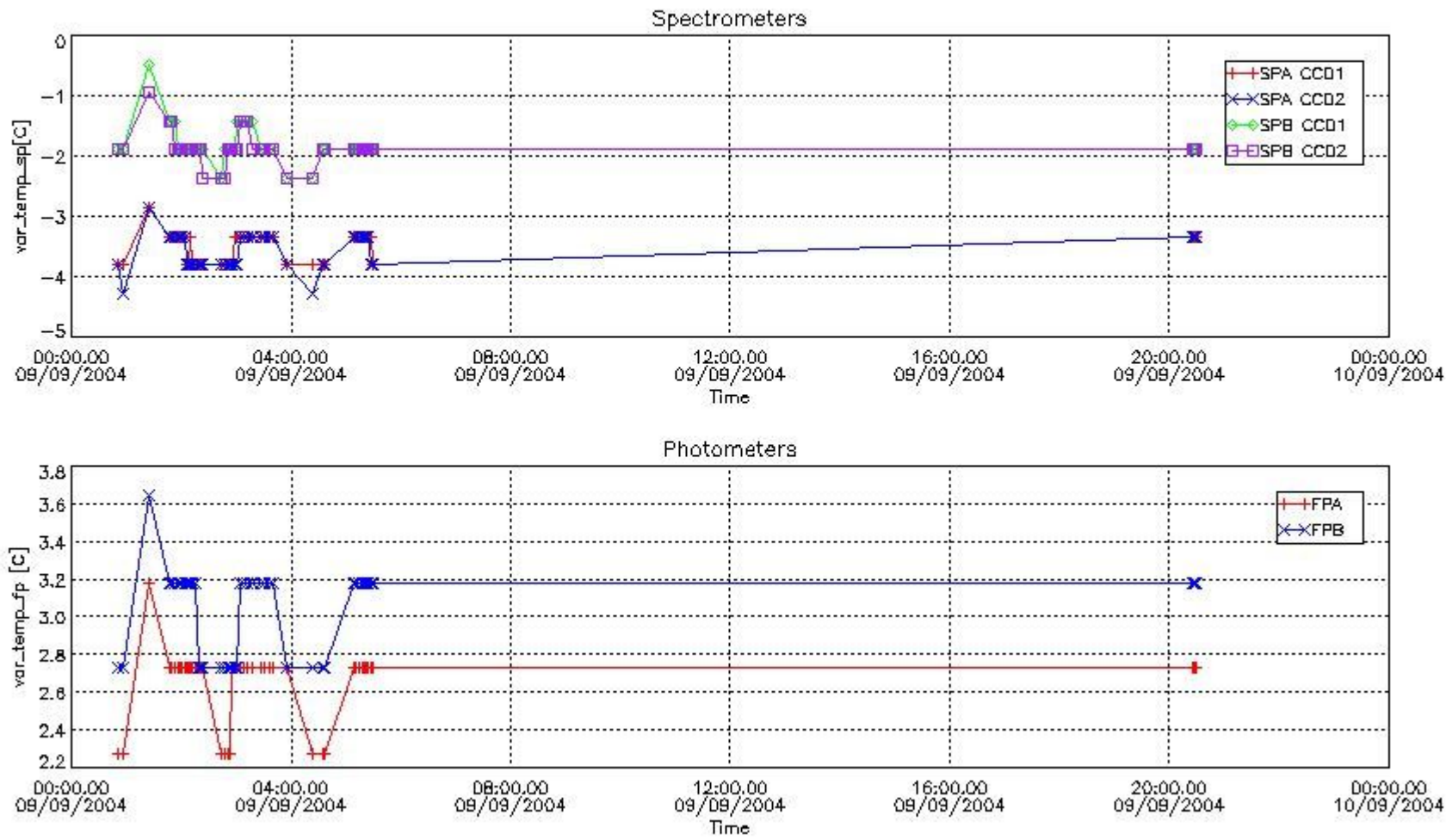
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040909_005042_000000452030_00131_13211_0021.N1	09-SEP-2004 00:50:42	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	13211	No
GOM_TRA_1PNPDE20040909_005723_000000622030_00131_13211_0023.N1	09-SEP-2004 00:57:23	Bright	62.000	160	23Gam Per	2.9300	4700.0	124	13211	No
GOM_TRA_1PNPDE20040909_012403_000000862030_00131_13211_0000.N1	09-SEP-2004 01:24:03	Dark	85.500	14	58Alp Ori	0.87000	3000.0	171	13211	Yes
GOM_TRA_1PNPDE20040909_014721_000000392030_00132_13212_0005.N1	09-SEP-2004 01:47:21	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	13212	No
GOM_TRA_1PNPDE20040909_014919_000000442030_00132_13212_0006.N1	09-SEP-2004 01:49:19	Dark	44.000	9	Alp Eri	0.45300	24000.	88	13212	No
GOM_TRA_1PNPDE20040909_015255_000000422030_00132_13212_0007.N1	09-SEP-2004 01:52:55	Dark	42.000	148	Alp Tuc	2.8780	4100.0	84	13212	No
GOM_TRA_1PNPDE20040909_015636_000000422030_00132_13212_0008.N1	09-SEP-2004 01:56:36	Twilight	42.000	31	Alp Gru	1.7340	15200.	84	13212	No
GOM_TRA_1PNPDE20040909_015925_000000412030_00132_13212_0009.N1	09-SEP-2004 01:59:25	Bright	41.000	172	Gam Gru	3.0030	13100.	82	13212	No
GOM_TRA_1PNPDE20040909_020045_000000492030_00132_13212_0010.N1	09-SEP-2004 02:00:45	Bright	49.000	18	24Alp PsA	1.1660	9700.0	98	13212	No
GOM_TRA_1PNPDE20040909_020319_000000722030_00132_13212_0011.N1	09-SEP-2004 02:03:19	Bright	72.000	52	16Bet Cet	2.0370	4500.0	144	13212	No
GOM_TRA_1PNPDE20040909_020522_000000402030_00132_13212_0012.N1	09-SEP-2004 02:05:22	Bright	39.500	142	49Del Cap	2.8500	8900.0	79	13212	No
GOM_TRA_1PNPDE20040909_020826_000000402030_00132_13212_0013.N1	09-SEP-2004 02:08:26	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	13212	No
GOM_TRA_1PNPDE20040909_020943_000000402030_00132_13212_0014.N1	09-SEP-2004 02:09:43	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	13212	No
GOM_TRA_1PNPDE20040909_021242_000000392030_00132_13212_0015.N1	09-SEP-2004 02:12:42	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	13212	No
GOM_TRA_1PNPDE20040909_021448_000000442030_00132_13212_0016.N1	09-SEP-2004 02:14:48	Bright	43.500	90	54Alp Peg	2.4870	11000.	87	13212	No
GOM_TRA_1PNPDE20040909_021900_000000412030_00132_13212_0017.N1	09-SEP-2004 02:19:00	Bright	40.500	164	44Eta Peg	2.9480	5400.0	81	13212	No
GOM_TRA_1PNPDE20040909_022148_000000392030_00132_13212_0018.N1	09-SEP-2004 02:21:48	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	13212	No
GOM_TRA_1PNPDE20040909_022347_000000382030_00132_13212_0019.N1	09-SEP-2004 02:23:47	Bright	38.000	144	18Del Cyg	2.8600	11000.	76	13212	No
GOM_TRA_1PNPDE20040909_024340_000000382030_00132_13212_0001.N1	09-SEP-2004 02:43:40	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	13212	No
GOM_TRA_1PNPDE20040909_024644_000000632030_00132_13212_0002.N1	09-SEP-2004 02:46:44	Bright	63.000	6	13Alp Aur	0.080000	3400.0	126	13212	No
GOM_TRA_1PNPDE20040909_025105_000000562030_00132_13212_0003.N1	09-SEP-2004 02:51:05	Bright	55.500	107	37The Aur	2.6490	11000.	111	13212	No
GOM_TRA_1PNPDE20040909_025341_000000432030_00132_13212_0004.N1	09-SEP-2004 02:53:41	Twilight	43.000	17	78Bet Gem	1.1610	4500.0	86	13212	No
GOM_TRA_1PNPDE20040909_025538_000000872030_00132_13212_0005.N1	09-SEP-2004 02:55:38	Twilight	86.500	28	12Bet Tau	1.6500	15200.	173	13212	No
GOM_TRA_1PNPDE20040909_025854_000000622030_00132_13212_0006.N1	09-SEP-2004 02:58:54	Twilight	61.500	44	24Gam Gem	1.9280	11000.	123	13212	No
GOM_TRA_1PNPDE20040909_030044_000000522030_00132_13212_0007.N1	09-SEP-2004 03:00:44	Twilight	51.500	8	10Alp CMi	0.40000	6500.0	103	13212	No
GOM_TRA_1PNPDE20040909_030440_000001012030_00132_13212_0008.N1	09-SEP-2004 03:04:40	Dark	101.00	14	58Alp Ori	0.87000	3000.0	202	13212	No
GOM_TRA_1PNPDE20040909_030906_000000572030_00132_13212_0009.N1	09-SEP-2004 03:09:06	Dark	57.000	1	9Alp CMa	-1.4400	11000.	114	13212	No
GOM_TRA_1PNPDE20040909_031238_000000452030_00132_13212_0010.N1	09-SEP-2004 03:12:38	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	13212	No
GOM_TRA_1PNPDE20040909_031654_000000442030_00132_13212_0011.N1	09-SEP-2004 03:16:54	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	13212	No
GOM_TRA_1PNPDE20040909_031810_000000522030_00132_13212_0012.N1	09-SEP-2004 03:18:10	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	13212	No
GOM_TRA_1PNPDE20040909_032756_000000402030_00133_13213_0013.N1	09-SEP-2004 03:27:56	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	13213	No
GOM_TRA_1PNPDE20040909_032956_000000462030_00133_13213_0014.N1	09-SEP-2004 03:29:56	Dark	46.000	9	Alp Eri	0.45300	24000.	92	13213	No
GOM_TRA_1PNPDE20040909_033711_000000472030_00133_13213_0016.N1	09-SEP-2004 03:37:11	Twilight	47.000	31	Alp Gru	1.7340	15200.	94	13213	No
GOM_TRA_1PNPDE20040909_034000_000000392030_00133_13213_0017.N1	09-SEP-2004 03:40:00	Bright	39.000	172	Gam Gru	3.0030	13100.	78	13213	No
GOM_TRA_1PNPDE20040909_035522_000000442030_00133_13213_0024.N1	09-SEP-2004 03:55:22	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	13213	No
GOM_TRA_1PNPDE20040909_042416_000000372030_00133_13213_0001.N1	09-SEP-2004 04:24:16	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	13213	No
GOM_TRA_1PNPDE20040909_043416_000000452030_00133_13213_0004.N1	09-SEP-2004 04:34:16	Twilight	44.500	17	78Bet Gem	1.1610	4500.0	89	13213	No
GOM_TRA_1PNPDE20040909_043615_000000932030_00133_13213_0005.N1	09-SEP-2004 04:36:15	Twilight	93.000	28	12Bet Tau	1.6500	15200.	186	13213	No
GOM_TRA_1PNPDE20040909_050832_000000402030_00134_13214_0013.N1	09-SEP-2004 05:08:32	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	13214	No
GOM_TRA_1PNPDE20040909_051032_000000462030_00134_13214_0014.N1	09-SEP-2004 05:10:32	Dark	45.500	9	Alp Eri	0.45300	24000.	91	13214	No
GOM_TRA_1PNPDE20040909_051407_000000412030_00134_13214_0015.N1	09-SEP-2004 05:14:07	Dark	41.000	148	Alp Tuc	2.8780	4100.0	82	13214	No
GOM_TRA_1PNPDE20040909_051749_000000452030_00134_13214_0016.N1	09-SEP-2004 05:17:49	Twilight	44.500	31	Alp Gru	1.7340	15200.	89	13214	No
GOM_TRA_1PNPDE20040909_052036_000000412030_00134_13214_0017.N1	09-SEP-2004 05:20:36	Bright	41.000	172	Gam Gru	3.0030	13100.	82	13214	No
GOM_TRA_1PNPDE20040909_052158_000000462030_00134_13214_0018.N1	09-SEP-2004 05:21:58	Bright	46.000	18	24Alp PsA	1.1660	9700.0	92	13214	No
GOM_TRA_1PNPDE20040909_052428_000000752030_00134_13214_0019.N1	09-SEP-2004 05:24:28	Bright	75.000	52	16Bet Cet	2.0370	4500.0	150	13214	No
GOM_TRA_1PNPDE20040909_052635_000000412030_00134_13214_0020.N1	09-SEP-2004 05:26:35	Bright	40.500	142	49Del Cap	2.8500	8900.0	81	13214	No
GOM_TRA_1PNPDE20040909_052940_000000392030_00134_13214_0021.N1	09-SEP-2004 05:29:40	Bright	39.000	154	22Bet Aqr	2.8990	5700.0	78	13214	No
GOM_TRA_1PNPDE20040909_202602_000000392030_00143_13223_0002.N1	09-SEP-2004 20:26:02	Bright	38.500	172	Gam Gru	3.0030	13100.	77	13223	No
GOM_TRA_1PNPDE20040909_202724_000000452030_00143_13223_0003.N1	09-SEP-2004 20:27:24	Bright	44.500	18	24Alp PsA	1.1660	9700.0	89	13223	No

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



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

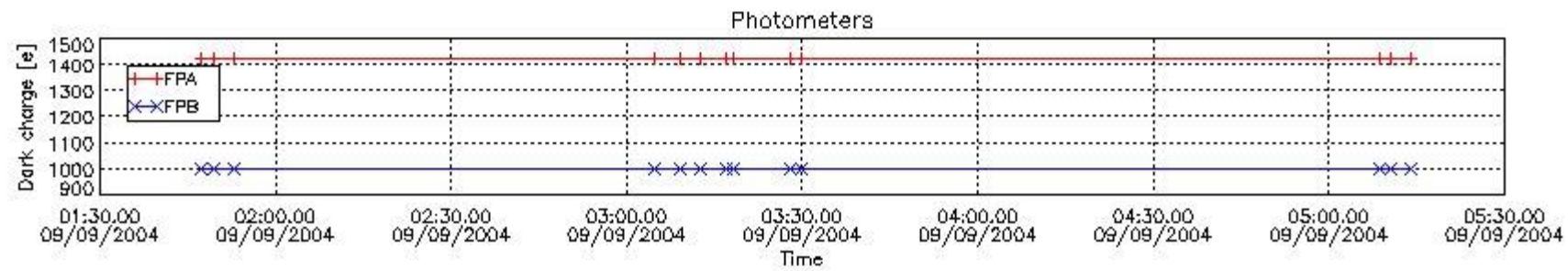
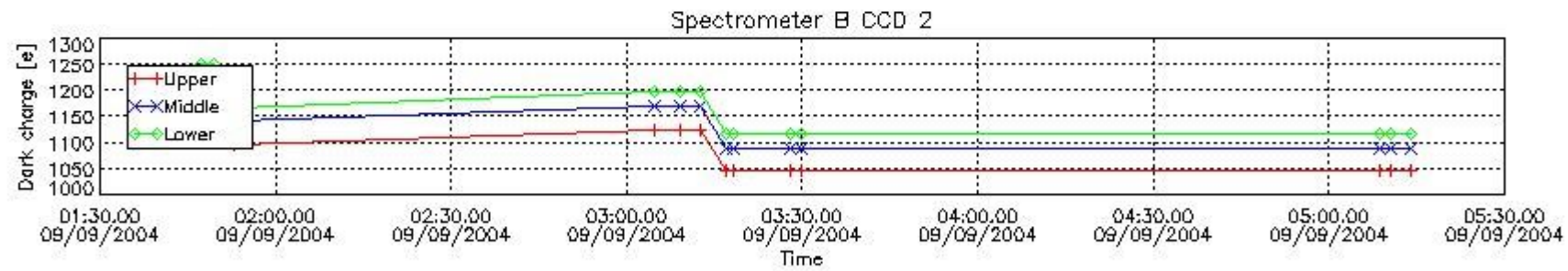
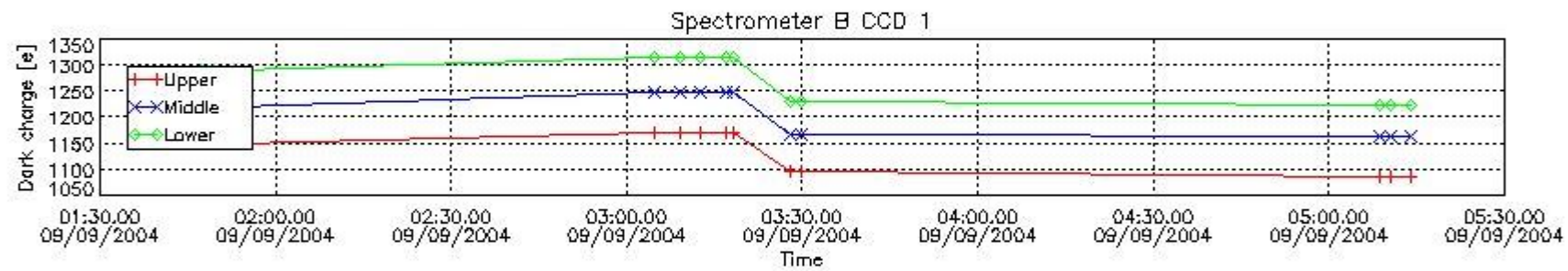
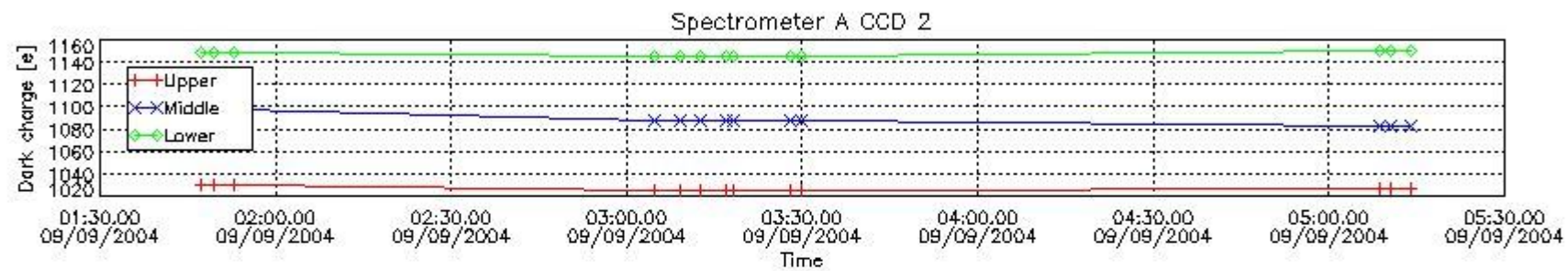
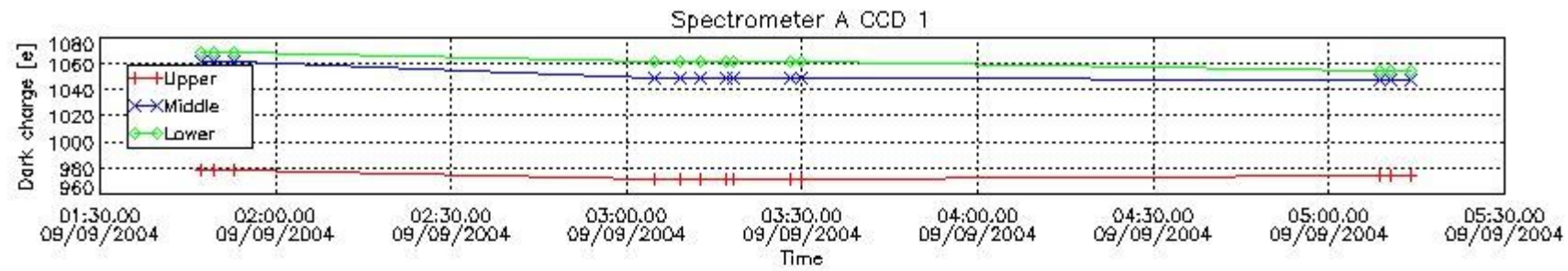
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20040909_202602_000000392030_00143_13223_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040909_202724_000000452030_00143_13223_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040909_202955_000000722030_00143_13223_0004.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

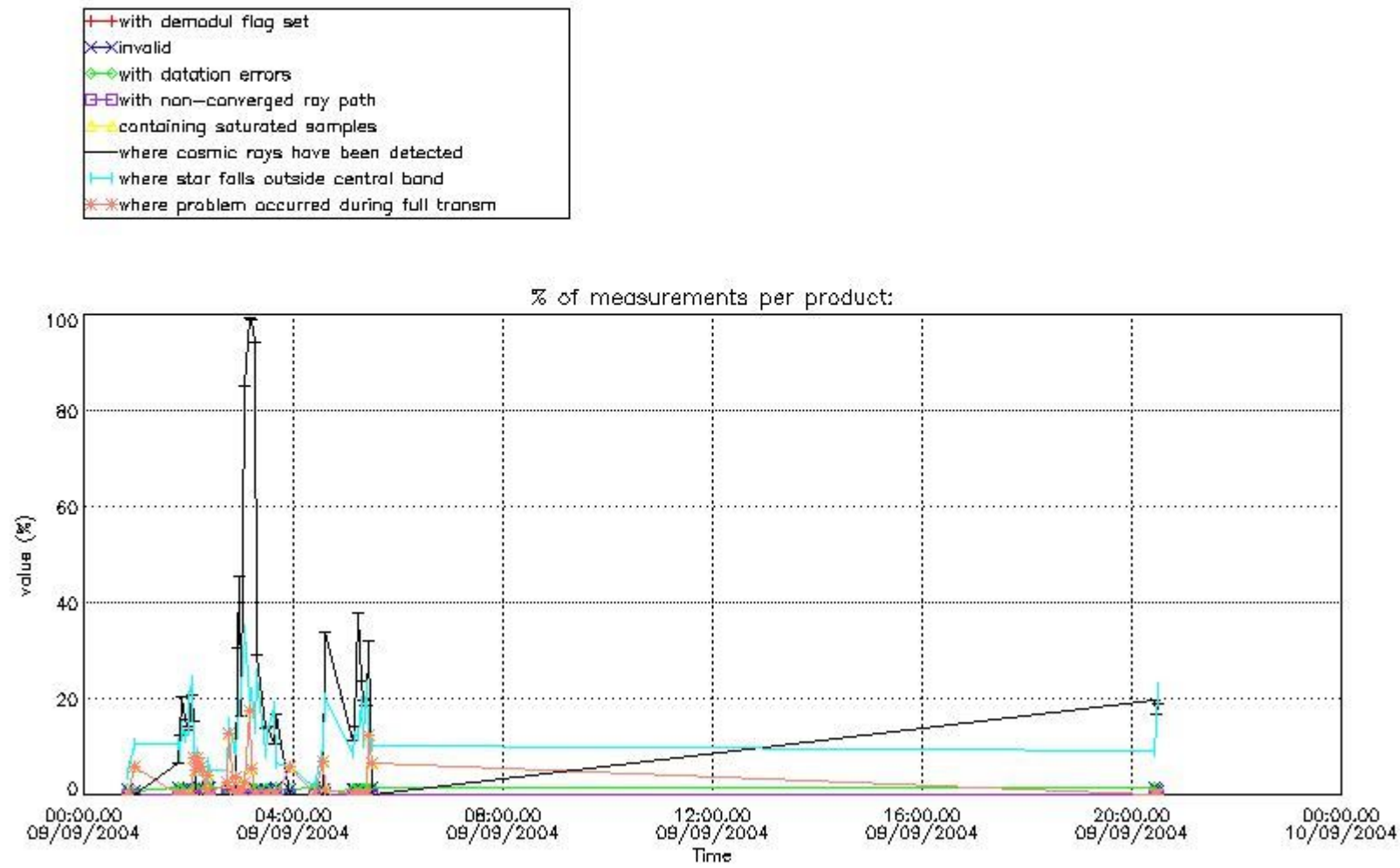
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

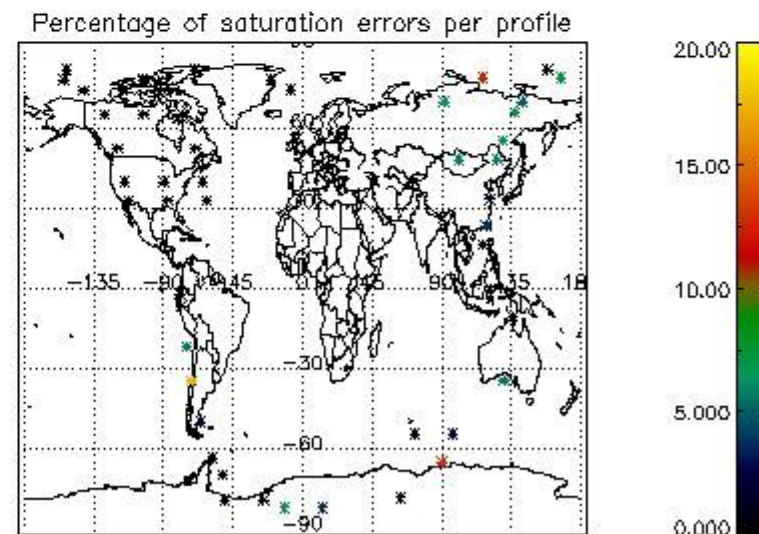
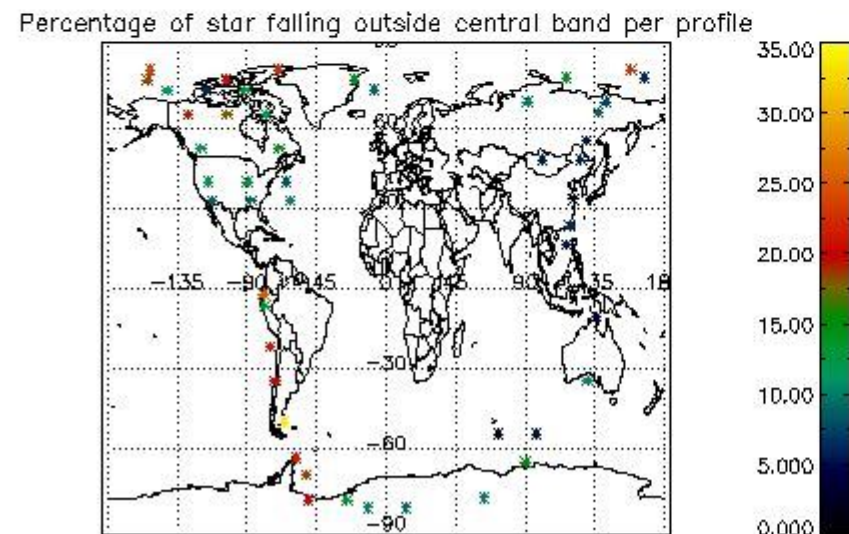
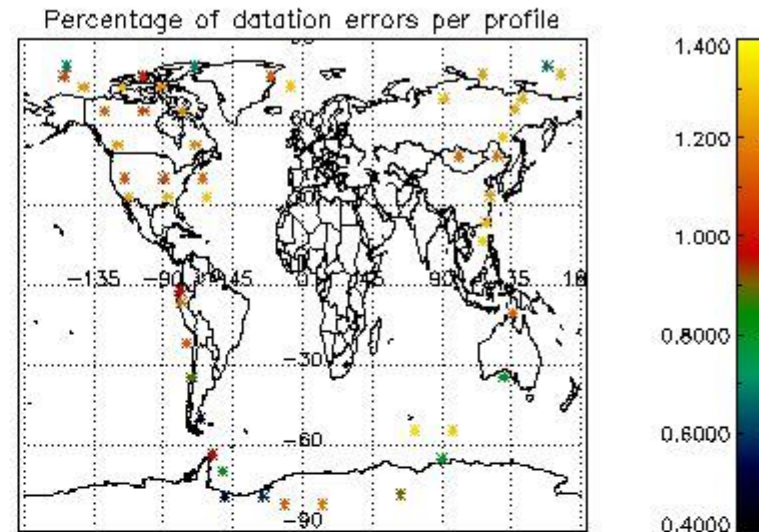
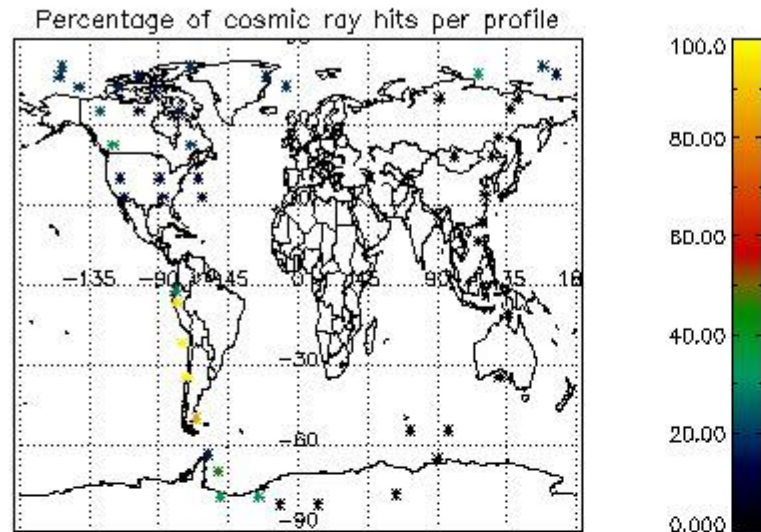


At least one measurement with demodulation flag set:	12.2449 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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



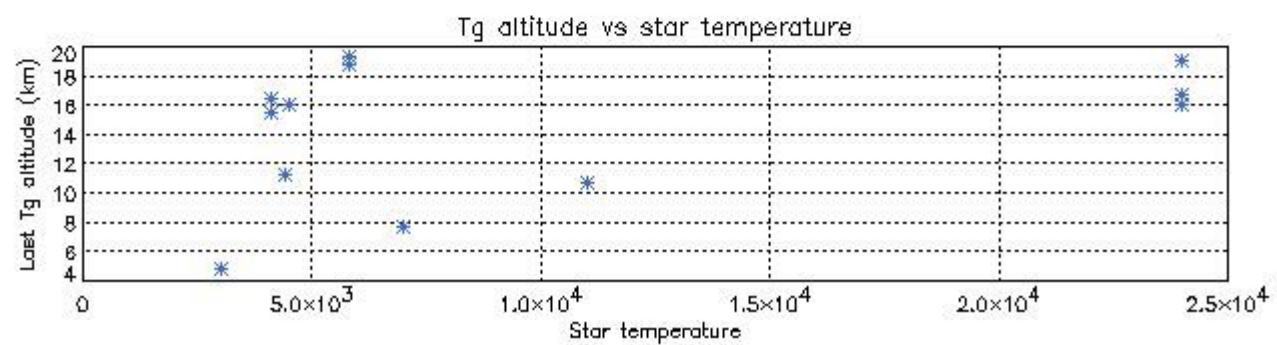
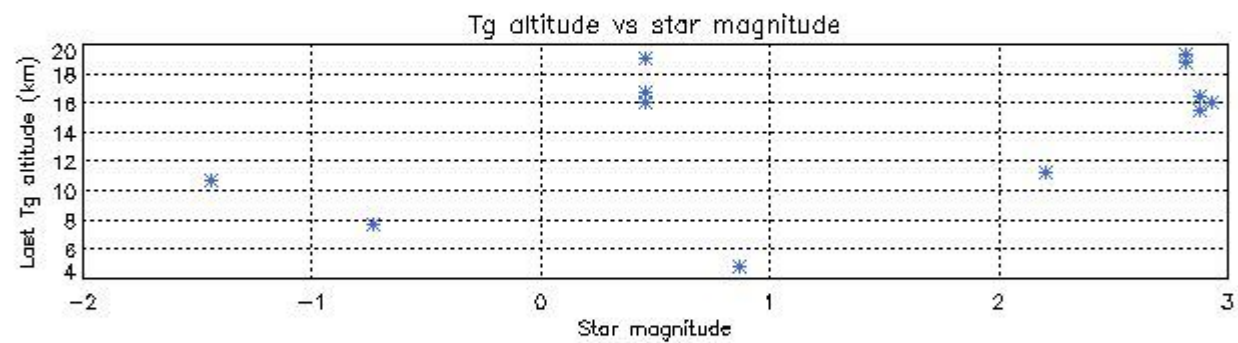
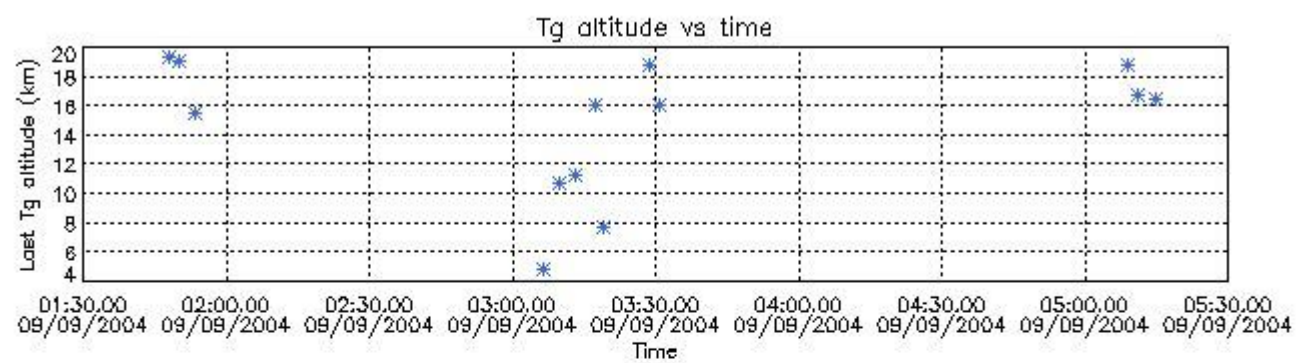
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.710	17.684	13.722
St. deviation:	4.6421	4.3639	2.7808
Maximum:	19.282	25.108	17.871
Minimum:	4.8189	9.9117	10.352
Number of data:	13.000	27.000	9.0000

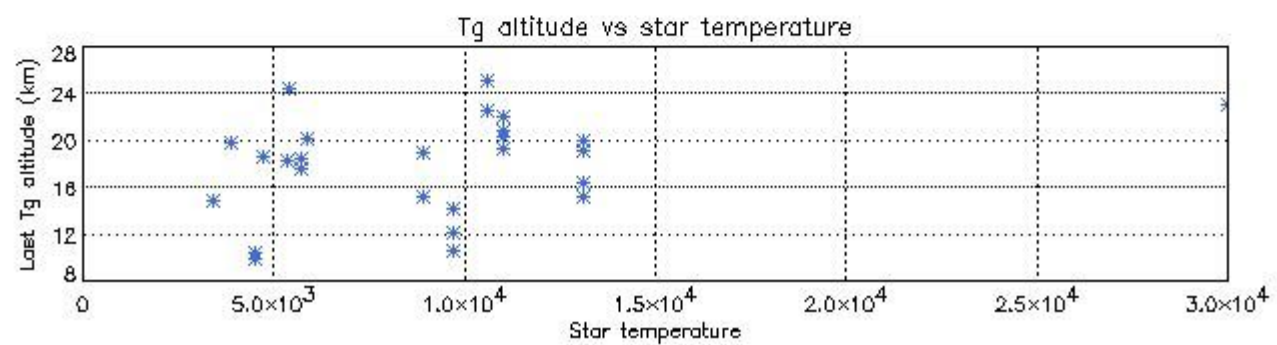
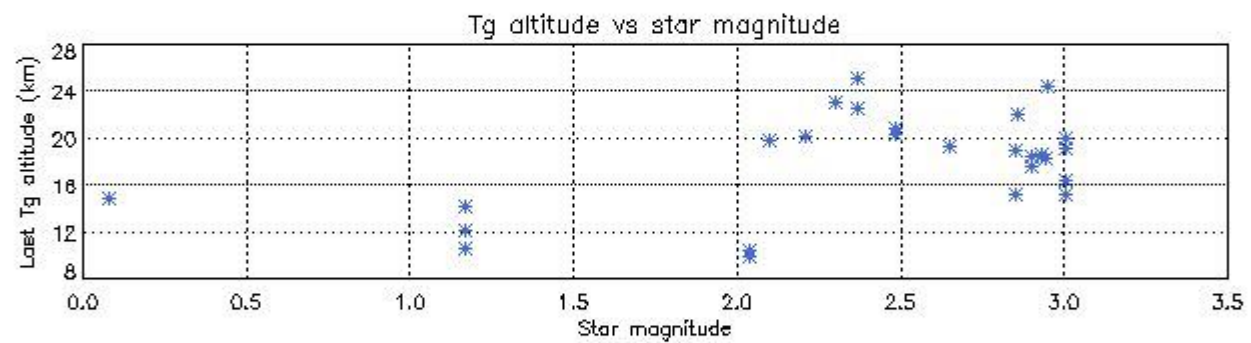
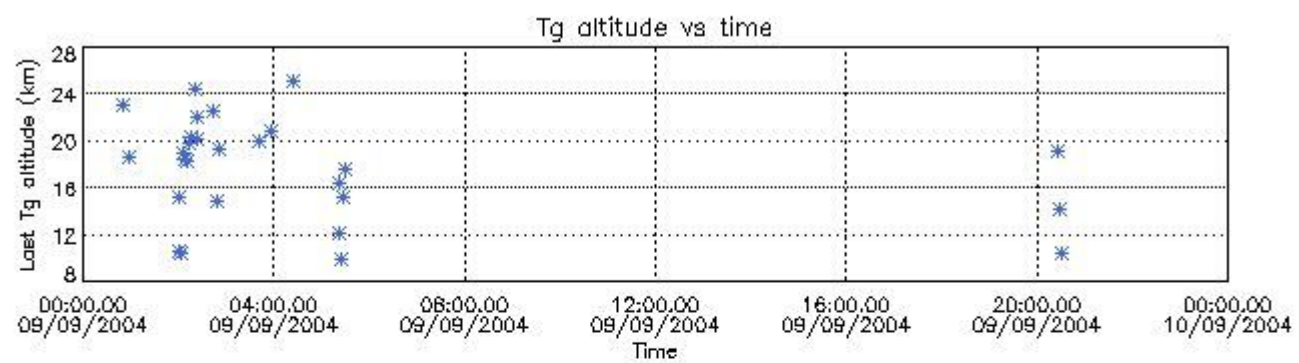
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

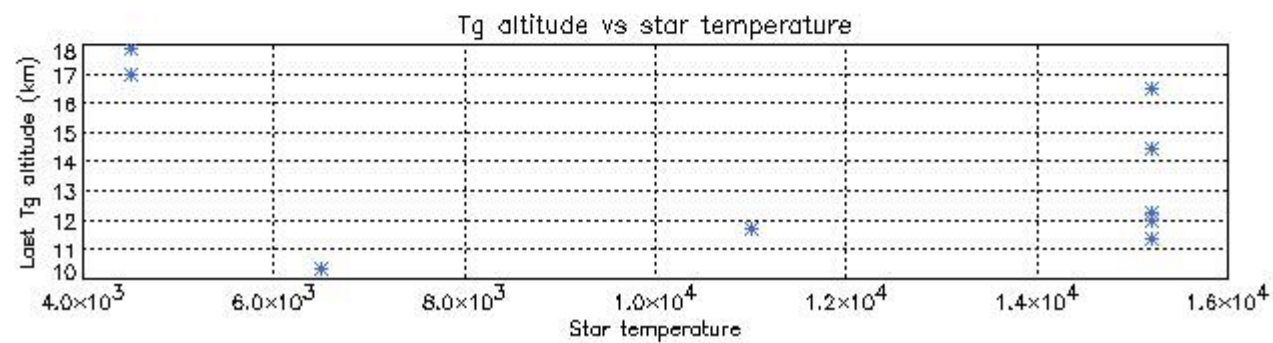
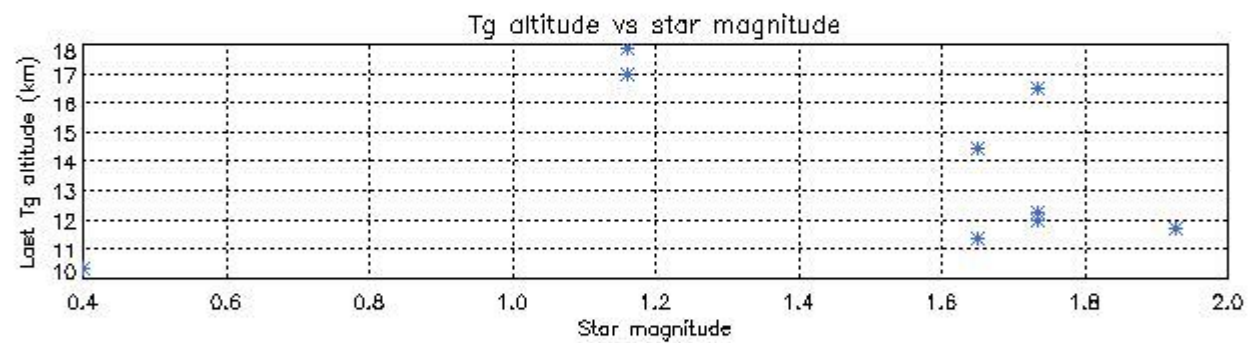
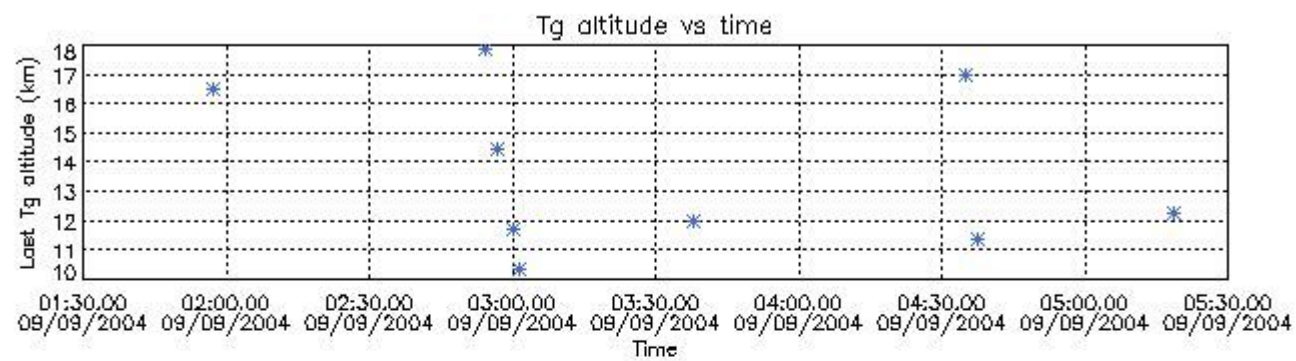
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



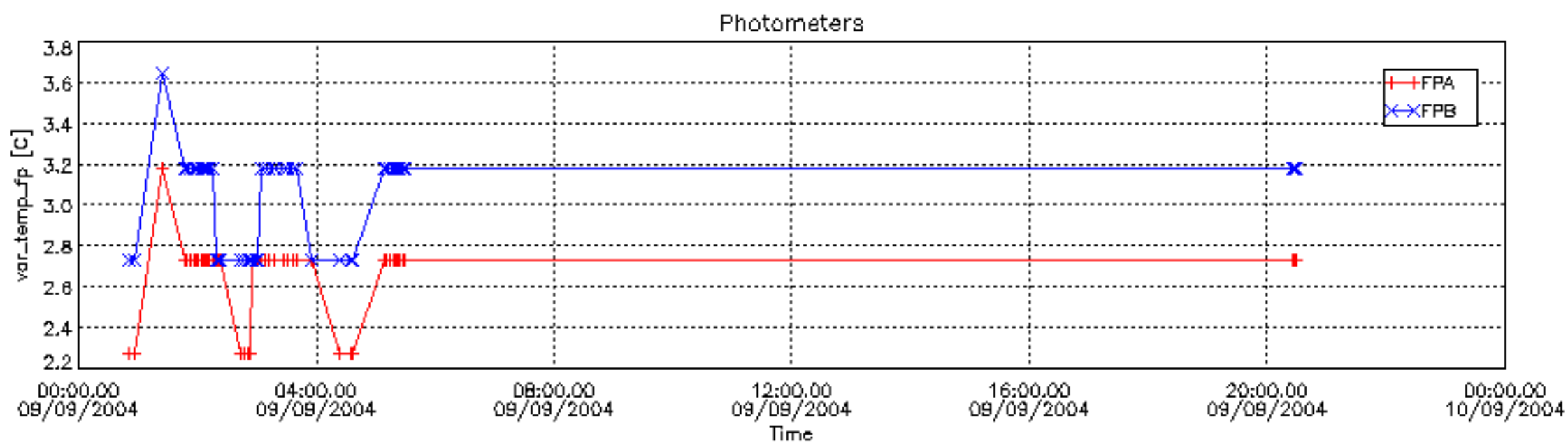
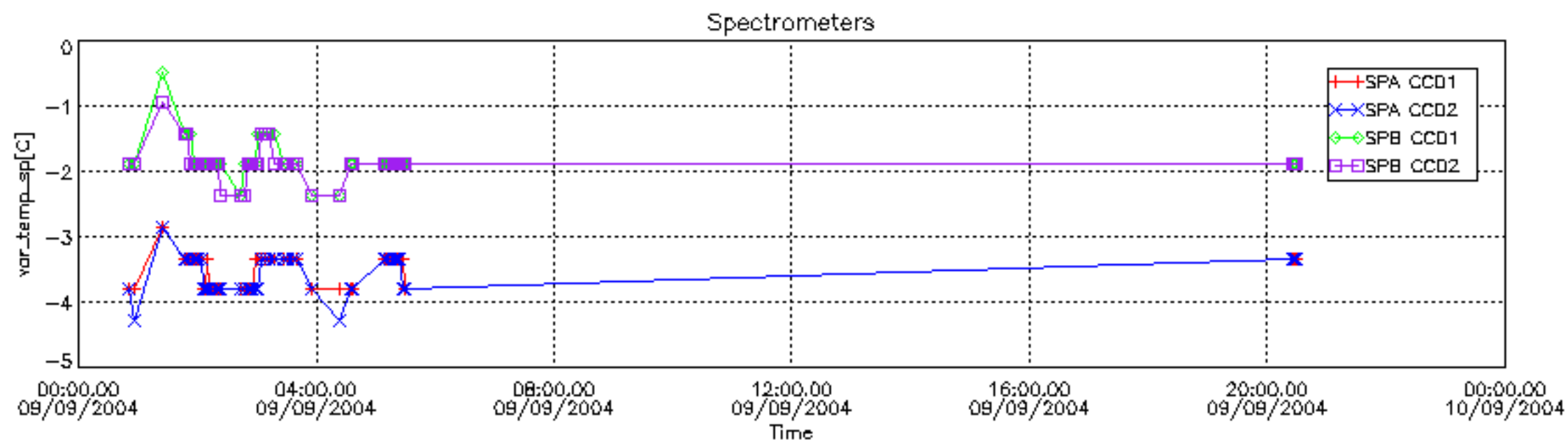
## Tangent altitude at which the star is lost

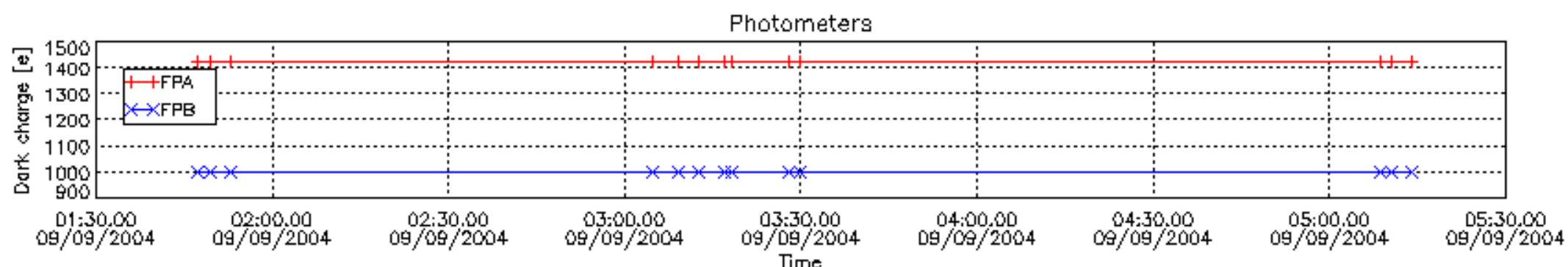
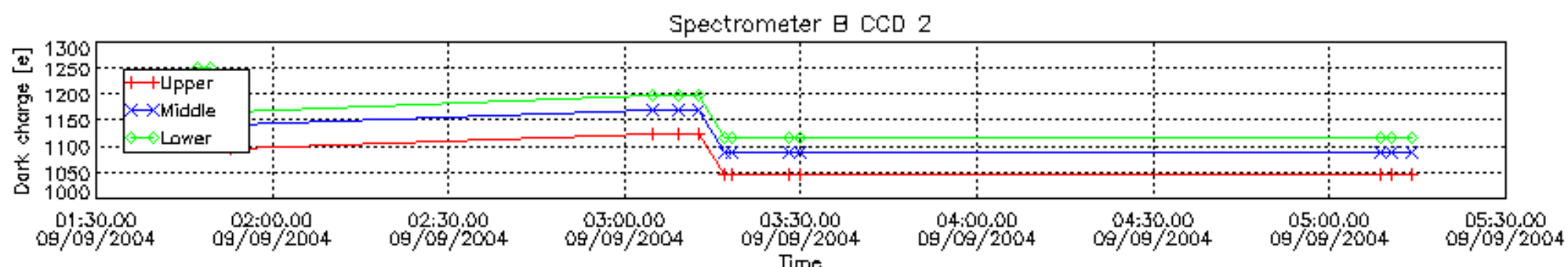
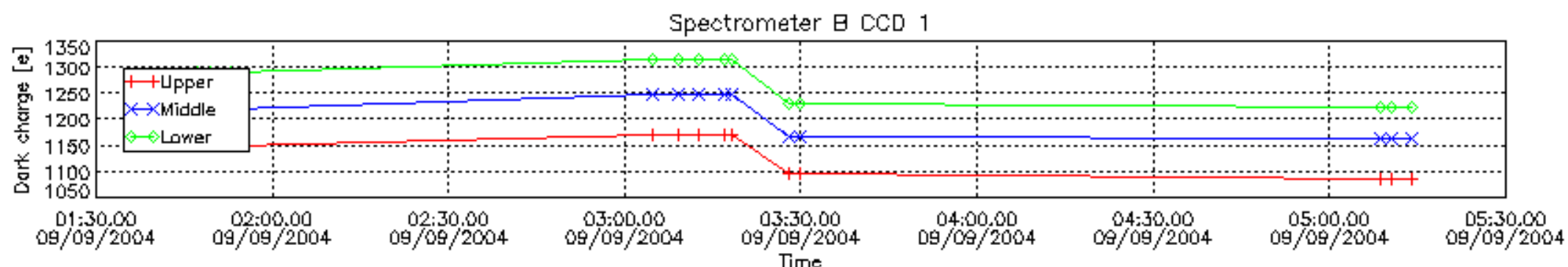
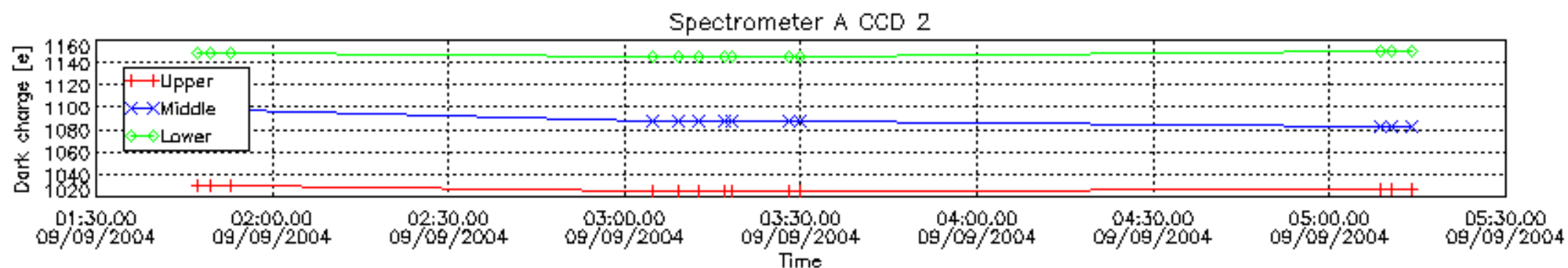
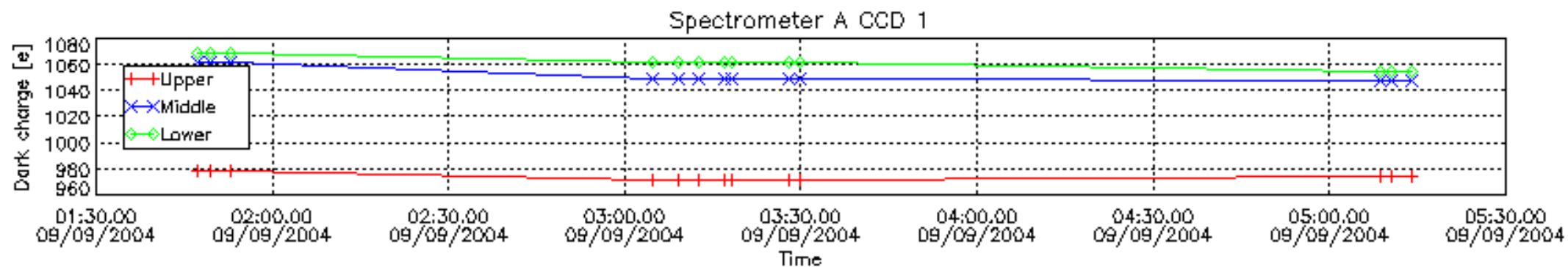


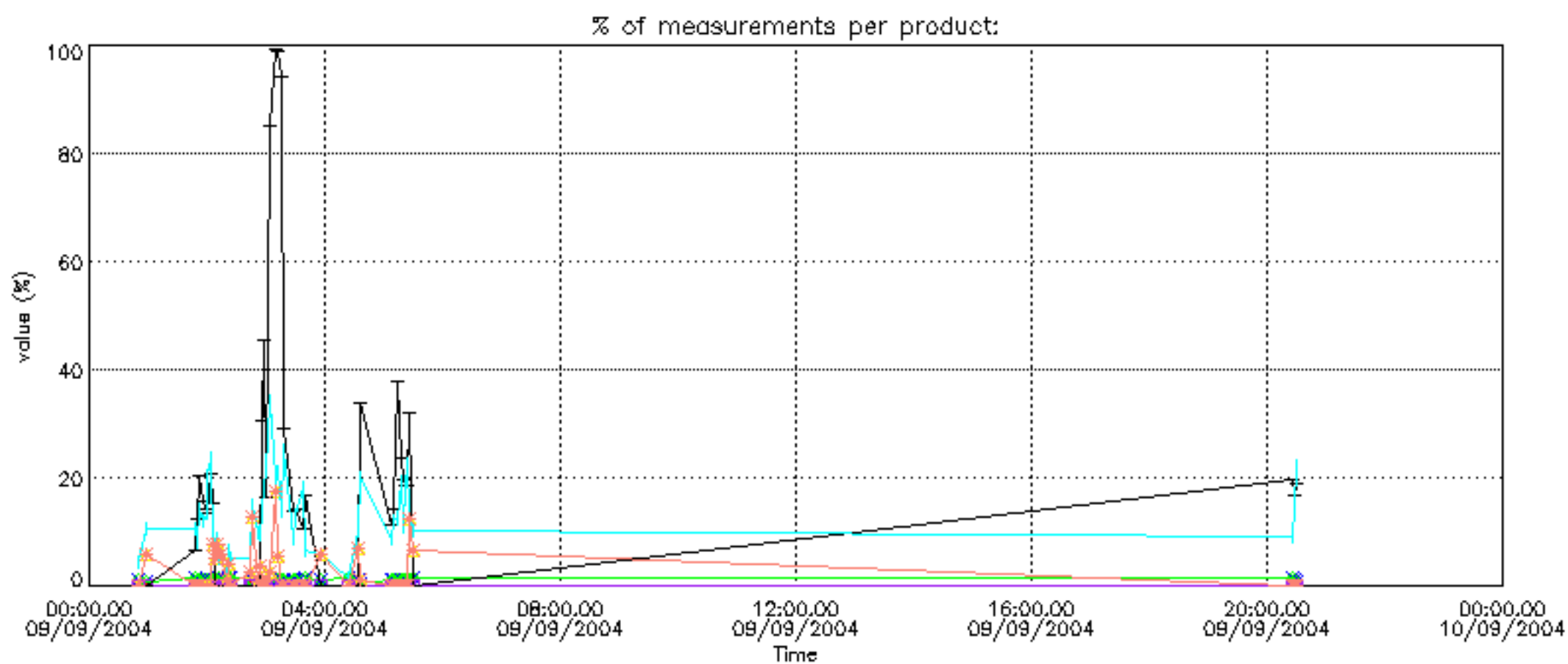
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1460.7	1446.0	1461.5	1447.4
St. deviation:	3.6637	4.9508	7.9275	9.2026
Maximum:	1482.0	1471.0	1512.0	1505.0
Minimum:	1446.0	1426.0	1453.0	1428.0
Number of data:	15650.	15650.	32050.	32050.

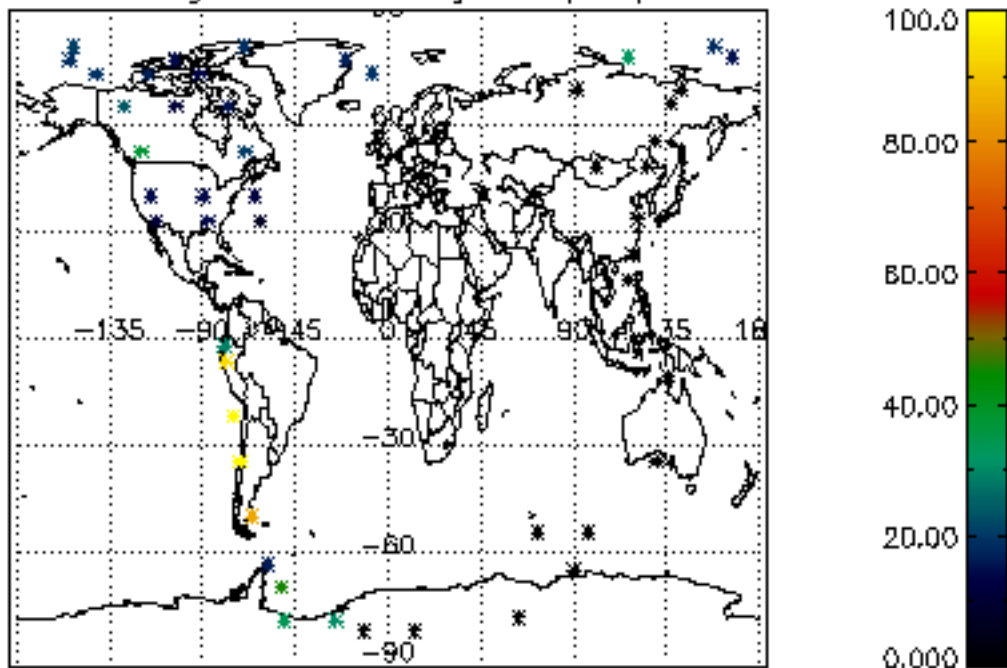




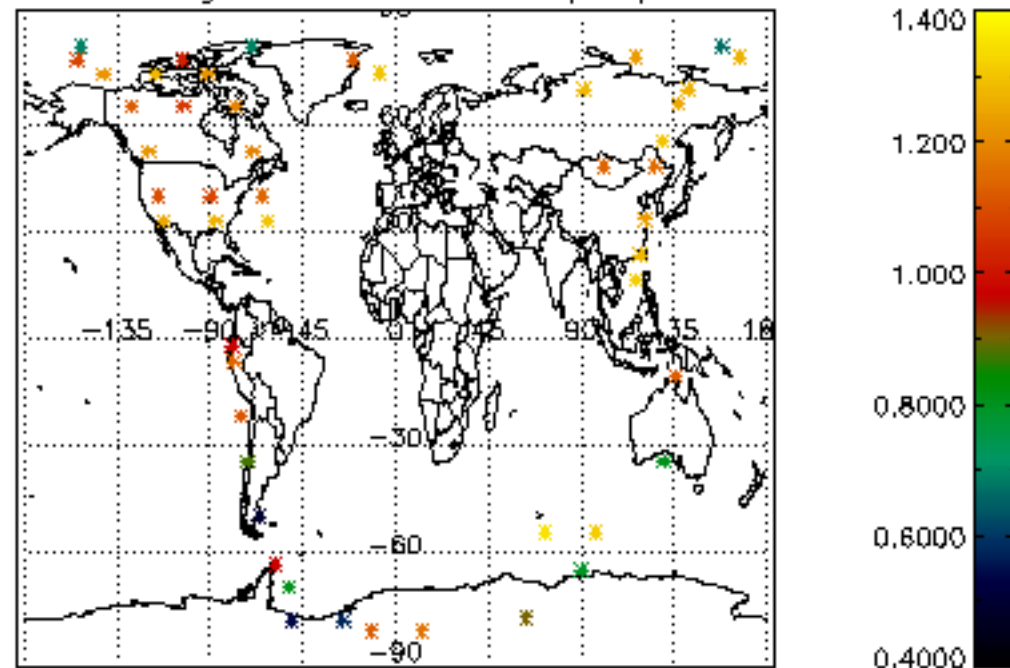




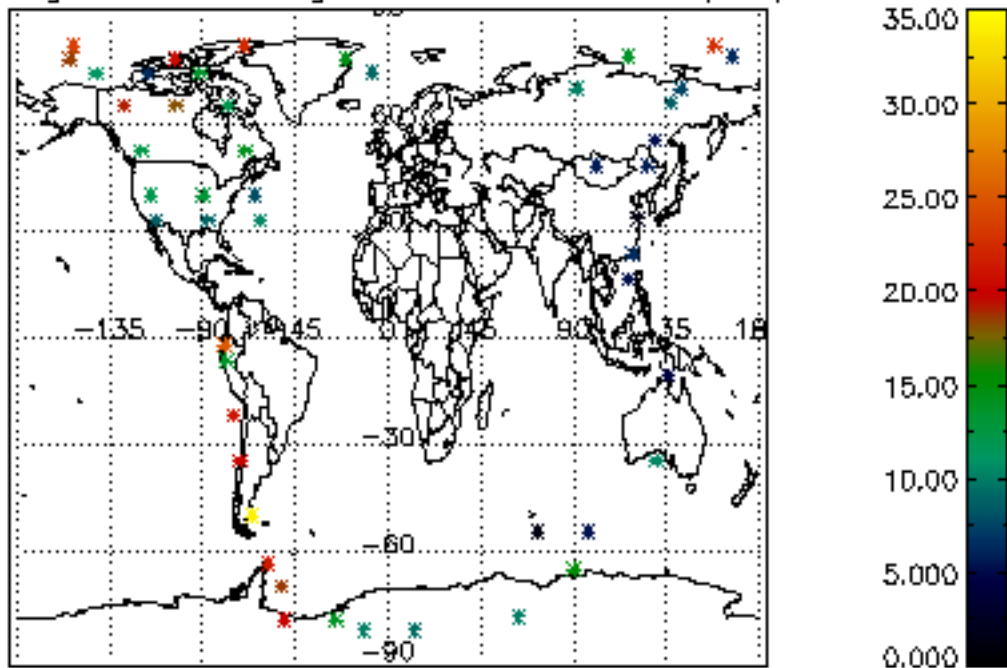
Percentage of cosmic ray hits per profile



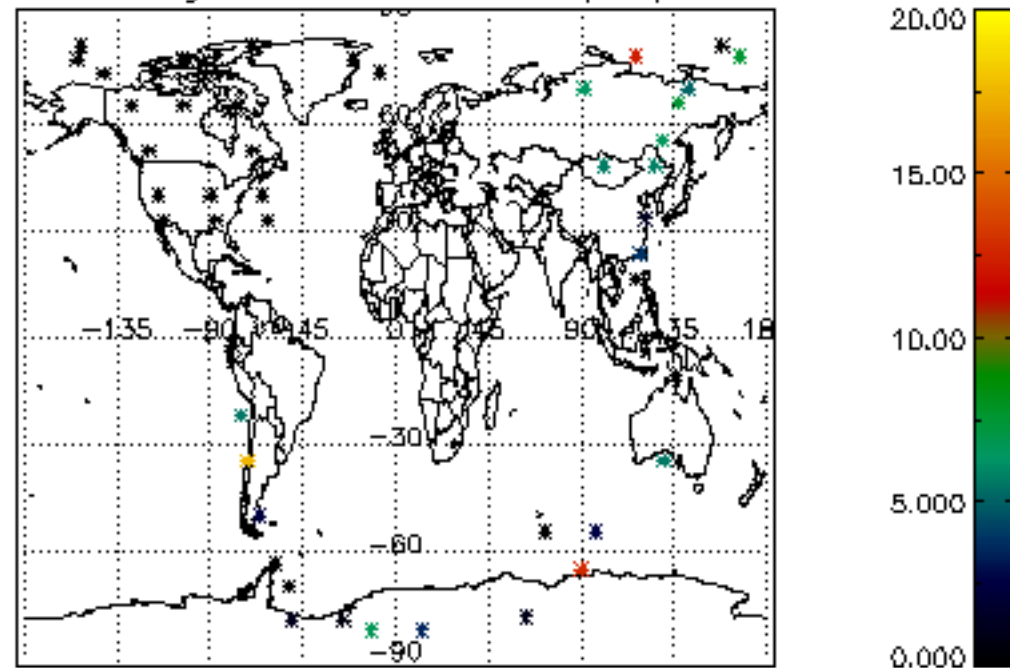
Percentage of datation errors per profile



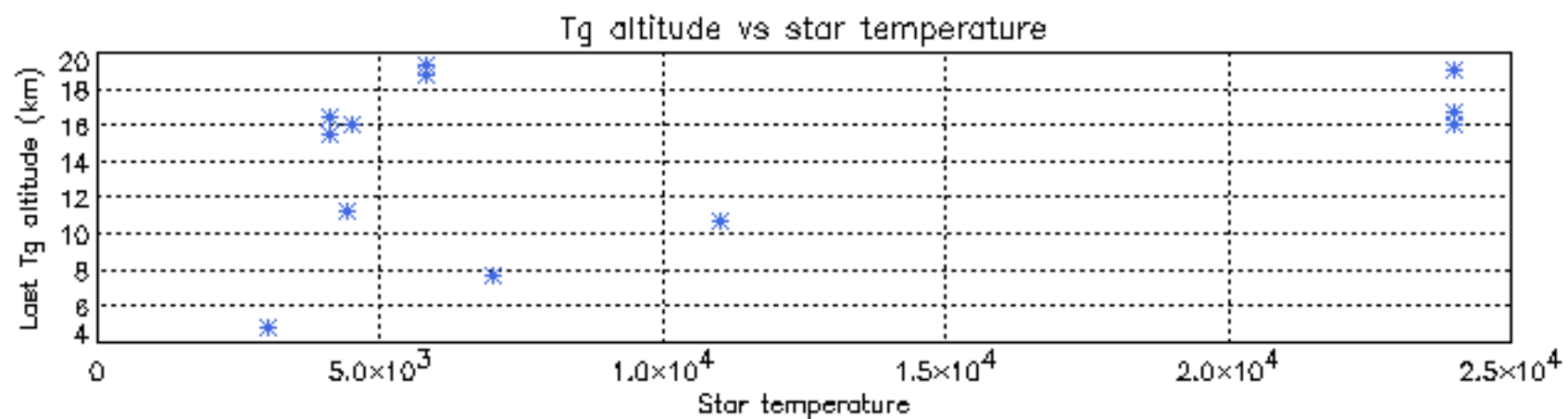
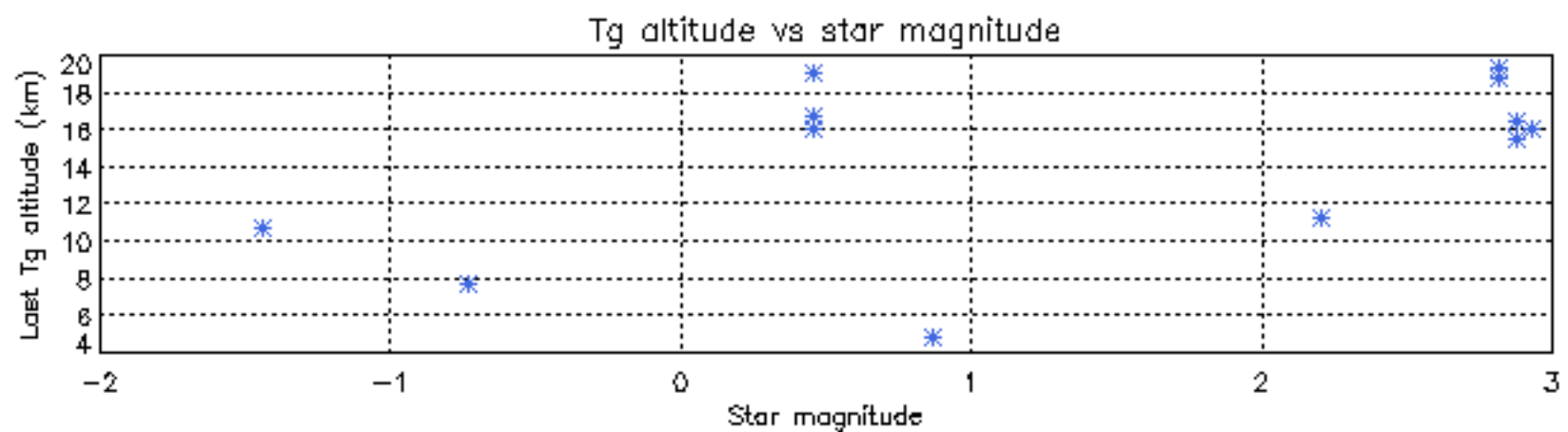
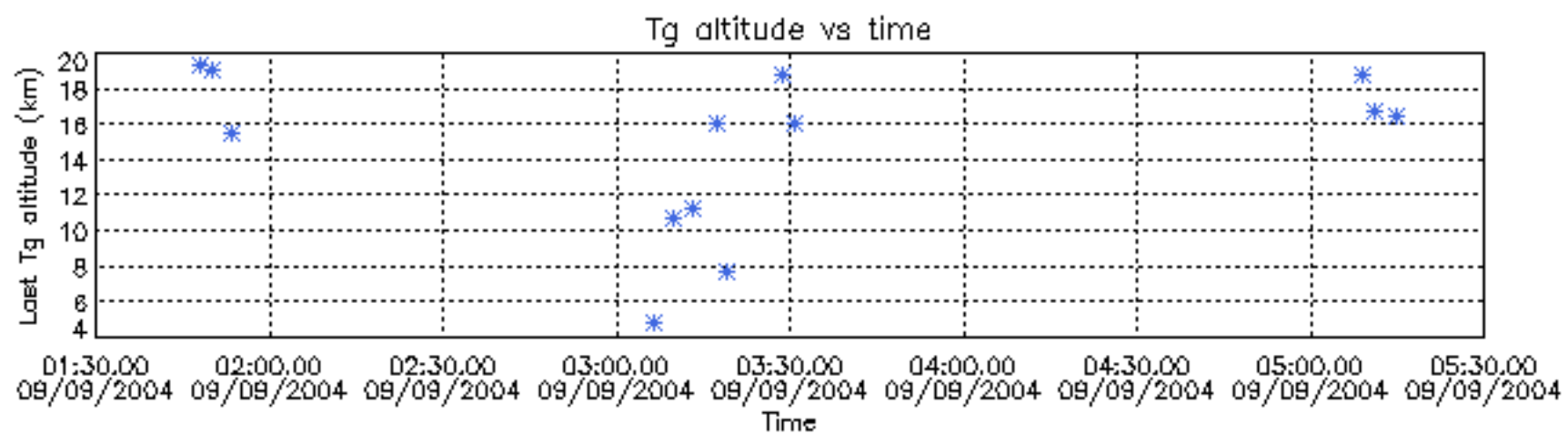
Percentage of star falling outside central band per profile



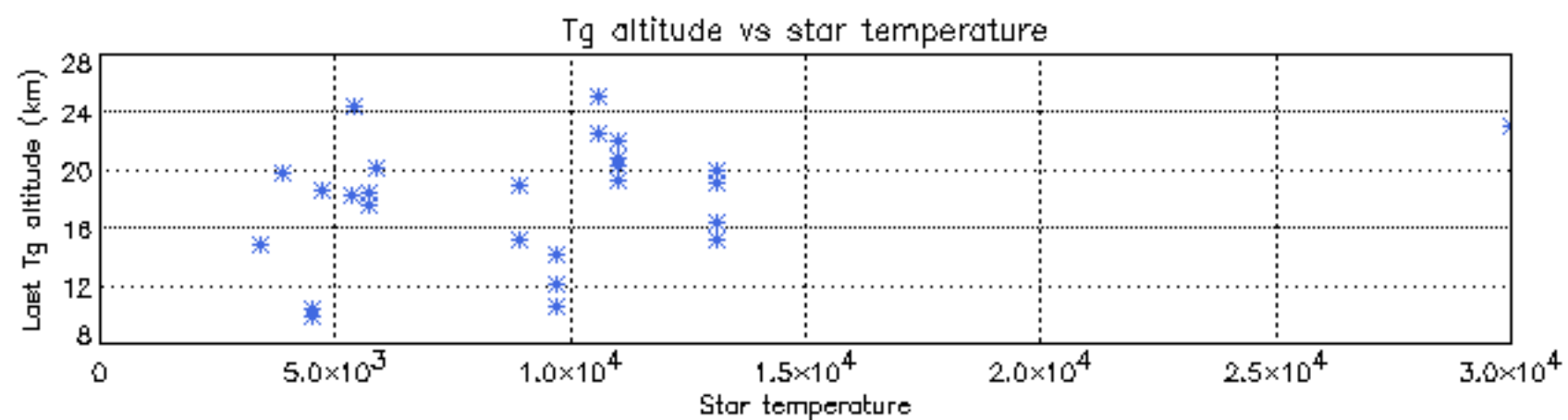
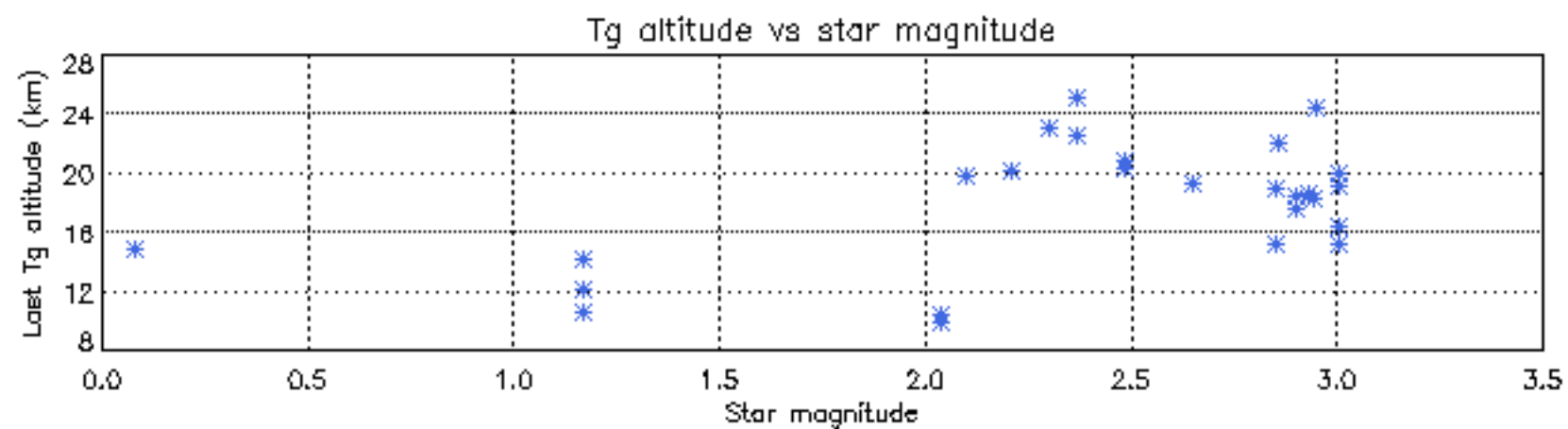
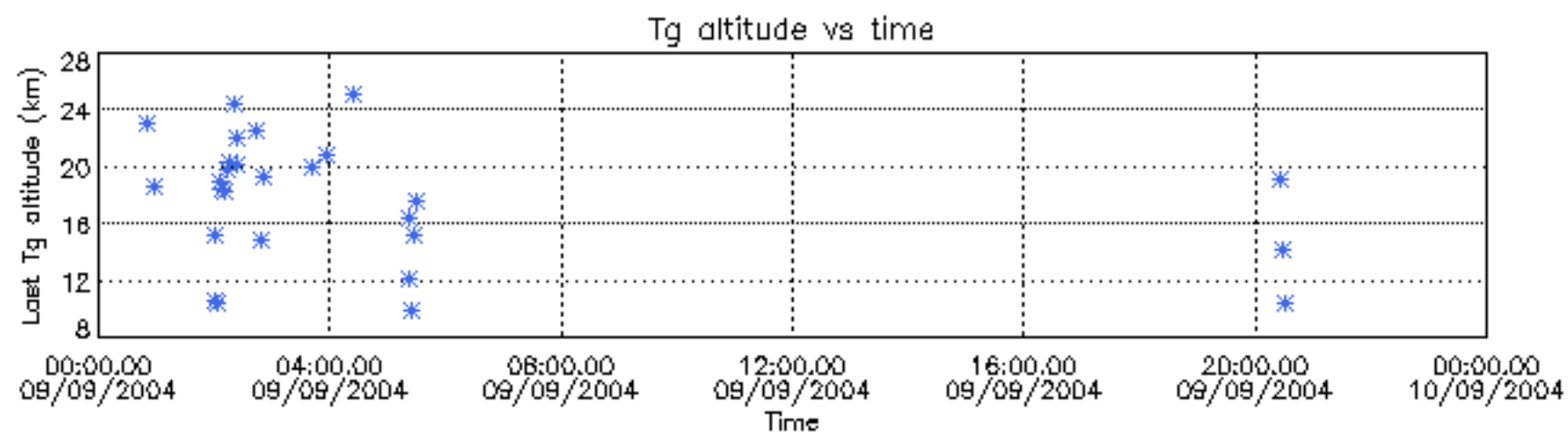
Percentage of saturation errors per profile



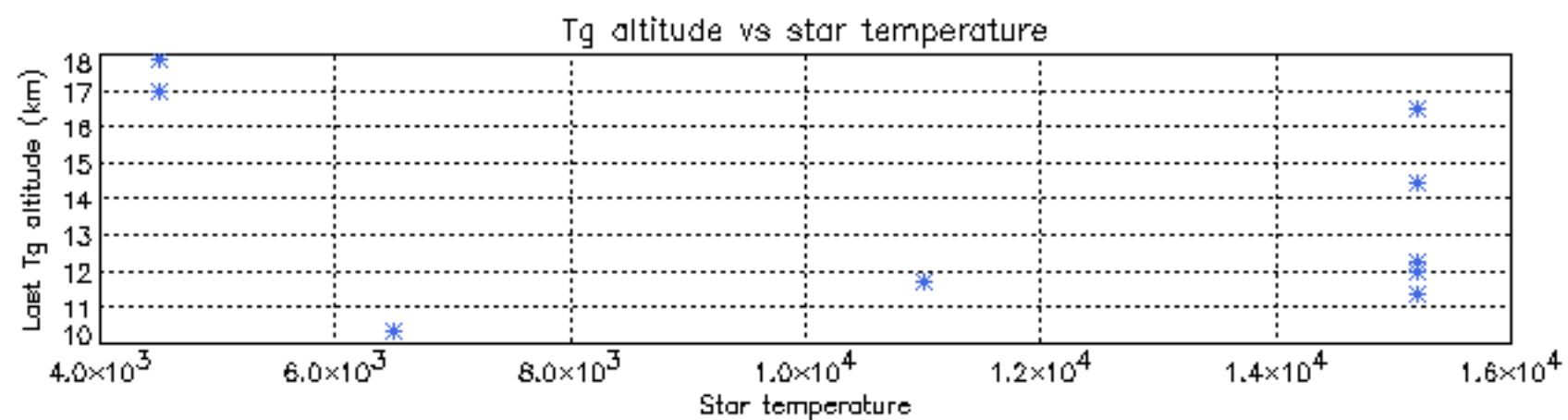
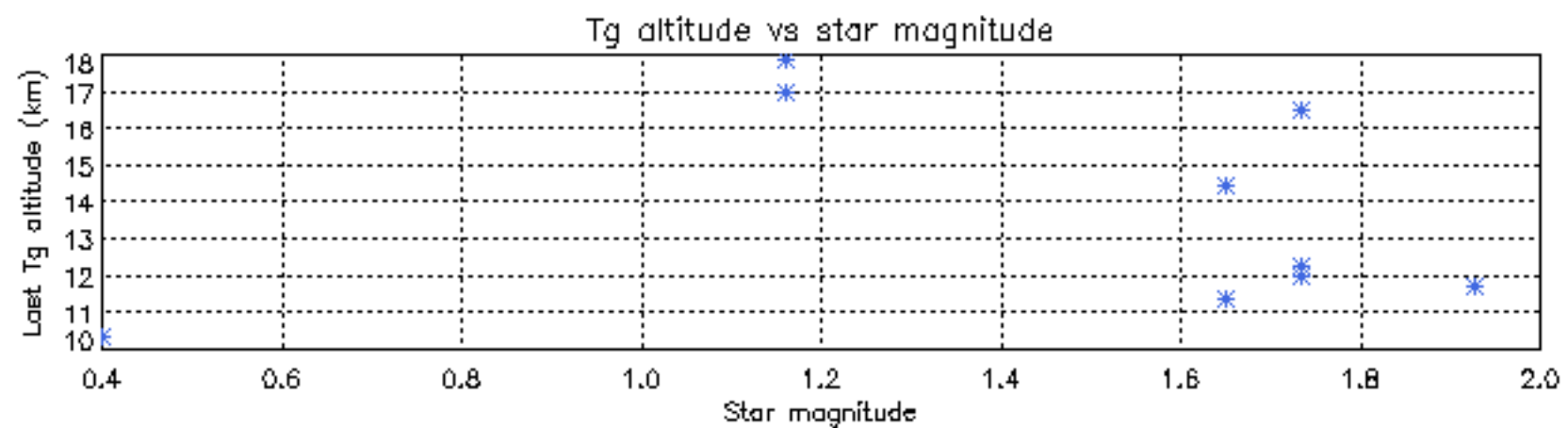
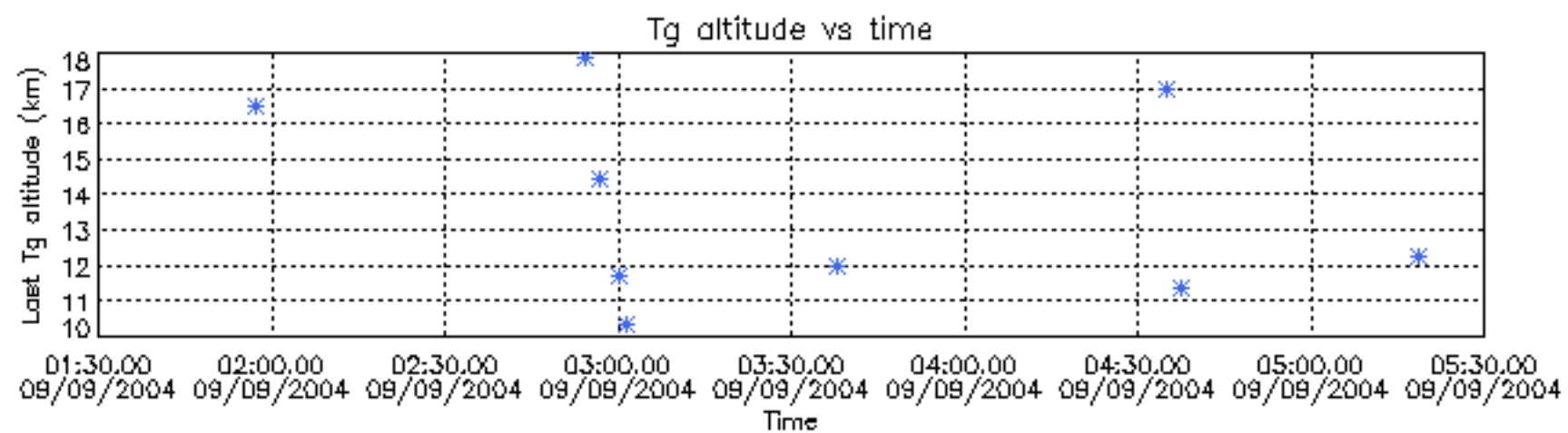
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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24;	-1081.4;	08-SEP-2004	16:57:07;	Dark	;	51.5;	8;	10Alp	CMi	;	0.40;	6500;	occ;	103;	0;	13206
25;	-852.0;	08-SEP-2004	17:00:56;	Dark	;	98.0;	14;	58Alp	Ori	;	0.87;	3000;	occ;	196;	0;	13206
26;	-581.3;	08-SEP-2004	17:05:27;	Dark	;	57.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	114;	0;	13206
27;	-492.1;	08-SEP-2004	17:06:56;	Dark	;	48.0;	37;	25Del	CMA	;	1.83;	5900;	occ;	96;	0;	13206
28;	-365.5;	08-SEP-2004	17:09:03;	Dark	;	43.0;	65;	Lam	Vel	;	2.20;	4400;	occ;	86;	0;	13206
29;	-216.9;	08-SEP-2004	17:11:31;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13206
30;	-110.8;	08-SEP-2004	17:13:17;	Dark	;	42.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	84;	0;	13206
31;	-36.7;	08-SEP-2004	17:14:31;	Dark	;	49.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	98;	0;	13206
32;	549.3;	08-SEP-2004	17:24:17;	Dark	;	42.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	84;	0;	13207
33;	669.4;	08-SEP-2004	17:26:18;	Dark	;	46.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	92;	0;	13207
34;	886.5;	08-SEP-2004	17:29:55;	Dark	;	40.0;	148;	Alp	Tuc	;	2.88;	4100;	occ;	80;	0;	13207
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2;	-4760.6;	08-SEP-2004	17:36:24;	Dark	;	40.5;	172;	Gam	Gru	;	3.00;	13100;	occ;	81;	0;	13207
3;	-4678.7;	08-SEP-2004	17:37:45;	Dark	;	46.5;	18;	24Alp	PsA	;	1.17;	9700;	occ;	93;	0;	13207
4;	-4526.8;	08-SEP-2004	17:40:17;	Dark	;	71.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	143;	0;	13207
5;	-4401.5;	08-SEP-2004	17:42:23;	Dark	;	40.5;	142;	49Del	Cap	;	2.85;	8900;	occ;	81;	0;	13207
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7;	-4139.8;	08-SEP-2004	17:46:44;	Bright;	;	39.5;	162;	34Alp	Aqr	;	2.94;	5350;	occ;	79;	0;	13207
8;	-3961.3;	08-SEP-2004	17:49:43;	Bright;	;	38.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	77;	0;	13207
9;	-3834.7;	08-SEP-2004	17:51:49;	Bright;	;	44.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	89;	0;	13207
10;	-3580.5;	08-SEP-2004	17:56:04;	Bright;	;	39.5;	164;	44Eta	Peg	;	2.95;	5400;	occ;	79;	0;	13207
11;	-3415.5;	08-SEP-2004	17:58:49;	Bright;	;	39.5;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	79;	0;	13207
12;	-3298.2;	08-SEP-2004	18:00:46;	Bright;	;	37.5;	144;	18Del	Cyg	;	2.86;	11000;	occ;	75;	0;	13207
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17;	-2441.6;	08-SEP-2004	18:15:03;	Bright;	;	57.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	115;	0;	13207
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21;	-1502.8;	08-SEP-2004	18:30:41;	Bright;	;	43.0;	17;	78Bet	Gem	;	1.16;	4500;	occ;	86;	0;	13207
22;	-1388.3;	08-SEP-2004	18:32:36;	Dark	;	82.0;	28;	12Bet	Tau	;	1.65;	15200;	occ;	164;	0;	13207
23;	-1193.4;	08-SEP-2004	18:35:51;	Dark	;	62.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	124;	0;	13207
24;	-1081.3;	08-SEP-2004	18:37:43;	Dark	;	51.5;	8;	10Alp	CMi	;	0.40;	6500;	occ;	103;	0;	13207
25;	-850.7;	08-SEP-2004	18:41:33;	Dark	;	88.5;	14;	58Alp	Ori	;	0.87;	3000;	occ;	177;	0;	13207
26;	-581.2;	08-SEP-2004	18:46:03;	Dark	;	56.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	112;	0;	13207
27;	-491.2;	08-SEP-2004	18:47:33;	Dark	;	48.0;	37;	25Del	CMA	;	1.83;	5900;	occ;	96;	0;	13207
28;	-365.5;	08-SEP-2004	18:49:39;	Dark	;	44.5;	65;	Lam	Vel	;	2.20;	4400;	occ;	89;	0;	13207
29;	-216.1;	08-SEP-2004	18:52:08;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13207
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32;	551.9;	08-SEP-2004	19:04:56;	Dark	;	38.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	77;	0;	13208
33;	669.9;	08-SEP-2004	19:06:54;	Dark	;	56.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	113;	0;	13208
34;	886.7;	08-SEP-2004	19:10:31;	Dark	;	40.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	81;	0;	13208
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4;	-4678.7;	08-SEP-2004	19:18:21;	Dark	;	48.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	96;	0;	13208
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7;	-4216.5;	08-SEP-2004	19:26:04;	Bright;	;	38.5;	154;	22Bet	Aqr	;	2.90;	5700;	occ;	77;	0;	13208
8;	-4139.7;	08-SEP-2004	19:27:20;	Bright;	;	40.0;	162;	34Alp	Aqr	;	2.94;	5350;	occ;	80;	0;	13208
9;	-3961.2;	08-SEP-2004	19:30:19;	Bright;	;	38.0;	61;	8Eps	Peg	;	2.10;	3900;	occ;	76;	0;	13208
10;	-3834.9;	08-SEP-2004	19:32:25;	Bright;	;	44.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	89;	0;	13208
11;	-3580.9;	08-SEP-2004	19:36:39;	Bright;	;	41.0;	164;	44Eta	Peg	;	2.95;	5400;	occ;	82;	0;	13208
12;	-3415.2;	08-SEP-2004	19:39:25;	Bright;	;	38.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	76;	0;	13208
13;	-3298.0;	08-SEP-2004	19:41:22;	Bright;	;	39.0;	144;	18Del	Cyg	;	2.86;	11000;	occ;	78;	0;	13208
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17;	-2604.5;	08-SEP-2004	19:52:56;	Bright;	;	52.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	104;	0;	13208
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13; 1511.0; 09-SEP-2004 02:03:19; Dark ; 72.0; 52; 16Bet Cet ; 2.04; 4500;occ; 144; 0;13212
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8;	-3230.9;	19-SEP-2004	08:52:52;	Bright;	;	56.0;	53;	43Bet	And	;	2.05;	3300;	occ;	112;	0;	13359
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13;	-2378.8;	19-SEP-2004	09:07:04;	Bright;	;	71.0;	175;	39Del	Per	;	3.01;	19400;	occ;	142;	0;	13359
14;	-2156.3;	19-SEP-2004	09:10:46;	Bright;	;	37.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	74;	0;	13359
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32;	1302.2;	19-SEP-2004	10:08:25;	Dark	;	40.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	80;	0;	13360
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34;	1532.2;	19-SEP-2004	10:12:15;	Dark	;	60.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	120;	0;	13360
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3;	-3943.6;	19-SEP-2004	12:02:11;	Bright;	;	39.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	79;	0;	13361
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9;	-3062.6;	19-SEP-2004	12:16:52;	Bright;	;	38.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	77;	0;	13361
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16;	-1668.5;	19-SEP-2004	12:40:06;	Bright;	;	68.5;	107;	37The	Aur	;	2.65;	11000;	occ;	137;	0;	13361
17;	-1473.4;	19-SEP-2004	12:43:21;	Bright;	;	64.0;	17;	78Bet	Gem	;	1.16;	4500;	occ;	128;	0;	13361
18;	-1282.2;	19-SEP-2004	12:46:32;	Dark	;	170.0;	28;	12Bet	Tau	;	1.65;	15200;	occ;	340;	0;	13361
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30; 5167.5; 01-OCT-2004 01:32:15; Dark ; 72.0; 8; 10Alp CMi ; 0.40; 6500;occ; 144; 0;13526
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1;-5076.6; 30-SEP-2004 19:20:19; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 90;13523
2;-4895.3; 30-SEP-2004 19:23:21; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;13523
3;-4617.0; 30-SEP-2004 19:27:59; Dark ; 40.5; 18; 24Alp PsA ; 1.17; 9700;occ; 81; 0;13523
4;-4480.5; 30-SEP-2004 19:30:15; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;13523
5;-4093.1; 30-SEP-2004 19:36:43; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;13523
6;-3869.7; 30-SEP-2004 19:40:26; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;13523
7;-3651.3; 30-SEP-2004 19:44:05; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;13523
8;-3509.5; 30-SEP-2004 19:46:26; Bright; 65.5; 105; 6Bet Ari ; 2.64; 8900;occ; 131; 0;13523
9;-3378.6; 30-SEP-2004 19:48:37; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13523
10;-3086.4; 30-SEP-2004 19:53:30; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;13523
11;-3006.3; 30-SEP-2004 19:54:50; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13523
12;-2769.1; 30-SEP-2004 19:58:47; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;13523
13;-2608.8; 30-SEP-2004 20:01:27; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13523
14;-2485.4; 30-SEP-2004 20:03:31; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;13523
15;-2131.6; 30-SEP-2004 20:09:24; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;13523
16;-2041.6; 30-SEP-2004 20:10:54; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;13523
17;-1848.9; 30-SEP-2004 20:14:07; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;13523
18;-1703.2; 30-SEP-2004 20:16:33; Bright; 90.0; 107; 37The Aur ; 2.65; 11000;occ; 180; 0;13523
19;-1524.7; 30-SEP-2004 20:19:31; Bright; 54.5; 24; 66Alp Gem ; 1.58; 10200;occ; 109; 0;13523
20;-1238.7; 30-SEP-2004 20:24:17; Dark ; 100.0; 170; 27Eps Gem ; 3.00; 9700;occ; 200; 0;13523
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23;-295.1; 30-SEP-2004 20:40:01; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;13523
24;-203.5; 30-SEP-2004 20:41:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13523
25;-97.4; 30-SEP-2004 20:43:19; Dark ; 42.0; 46; De1 Vel ; 1.95; 10600;occ; 84; 0;13523
26; 306.1; 30-SEP-2004 20:50:02; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;13524
27; 602.6; 30-SEP-2004 20:54:58; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13524
28; 731.1; 30-SEP-2004 20:57:07; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13524
29; 816.0; 30-SEP-2004 20:58:32; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;13524
30; 913.9; 30-SEP-2004 21:00:10; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13524

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