

GOMOS Daily Report 11-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	15JUN2004 03:53:19
Data source version	GOMOS/4.02
Start time of products	11-JUN-2004 (11JUN2004 00:00:00)
Stop time of products	12-JUN-2004 (12JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	31
Nb of prods with errors	1

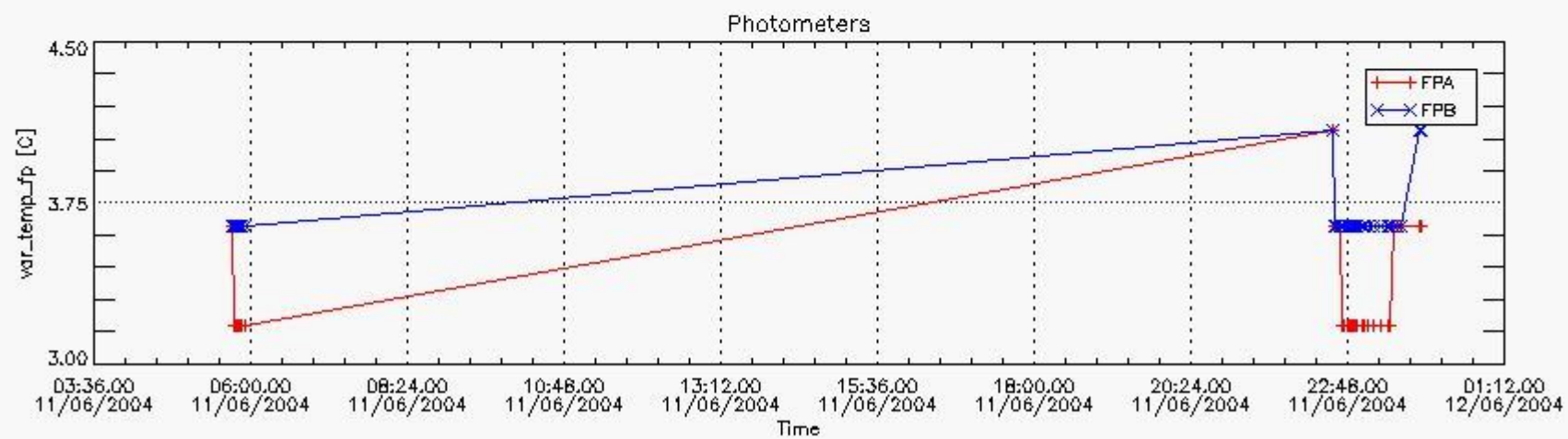
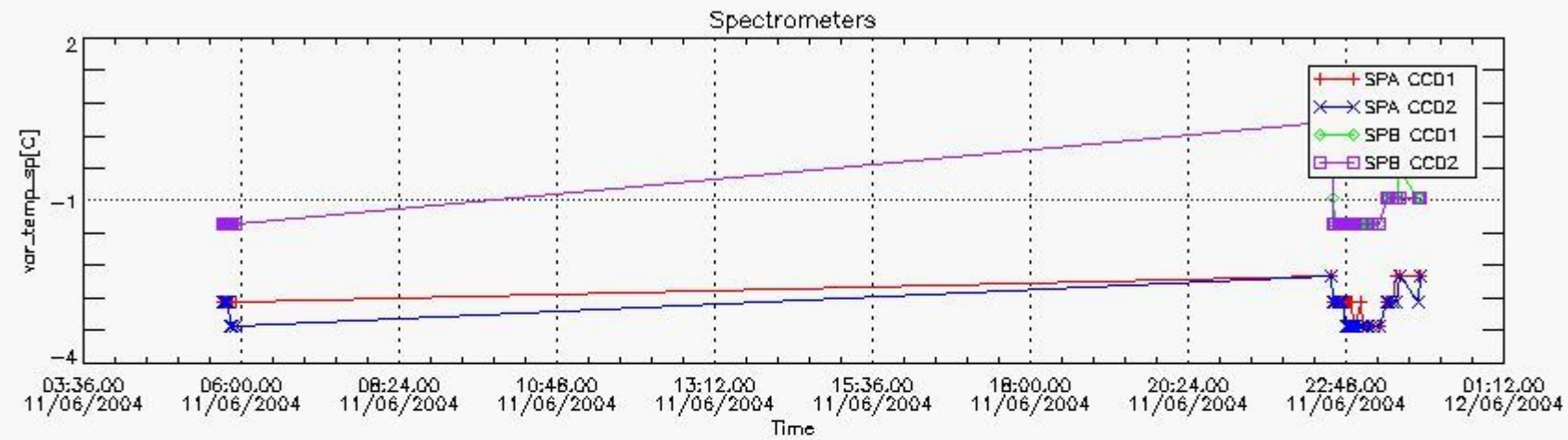
2. Summary of products arrived in PCF

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_1PNPDE20040611_054315_000000402027_00349_11926_0026.N1	11-JUN-2004 05:43:15	Bright	39.500	141	Bet Ara	2.8400	4600.0	79	11926	No
GOM_TRA_1PNPDE20040611_054435_000000402027_00349_11926_0027.N1	11-JUN-2004 05:44:35	Bright	39.500	147	Alp Ara	2.8770	26000.	79	11926	No
GOM_TRA_1PNPDE20040611_054620_000000472027_00349_11926_0028.N1	11-JUN-2004 05:46:20	Bright	47.000	40	The Sco	1.8590	7100.0	94	11926	No
GOM_TRA_1PNPDE20040611_054804_000000452027_00349_11926_0029.N1	11-JUN-2004 05:48:04	Bright	44.500	25	35Lam Sco	1.6200	28000.	89	11926	No
GOM_TRA_1PNPDE20040611_054944_000000652027_00349_11926_0030.N1	11-JUN-2004 05:49:44	Bright	64.500	57	34Sig Sgr	2.0660	26000.	129	11926	No
GOM_TRA_1PNPDE20040611_055137_000000652027_00349_11926_0031.N1	11-JUN-2004 05:51:37	Bright	64.500	155	41Pi Sgr	2.9000	6600.0	129	11926	No
GOM_TRA_1PNPDE20040611_055451_000000412027_00349_11926_0032.N1	11-JUN-2004 05:54:51	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	11926	No
GOM_TRA_1PNPDE20040611_223405_000000472027_00359_11936_0000.N1	11-JUN-2004 22:34:05	Bright	46.500	25	35Lam Sco	1.6200	28000.	93	11936	Yes
GOM_TRA_1PNPDE20040611_223547_000000592027_00359_11936_0001.N1	11-JUN-2004 22:35:47	Bright	58.500	57	34Sig Sgr	2.0660	26000.	117	11936	No
GOM_TRA_1PNPDE20040611_223739_000000622027_00359_11936_0002.N1	11-JUN-2004 22:37:39	Bright	62.000	155	41Pi Sgr	2.9000	6600.0	124	11936	No
GOM_TRA_1PNPDE20040611_224050_000000432027_00359_11936_0003.N1	11-JUN-2004 22:40:50	Bright	42.500	86	35Eta Oph	2.4300	10200.	85	11936	No
GOM_TRA_1PNPDE20040611_224235_000000412027_00359_11936_0004.N1	11-JUN-2004 22:42:35	Bright	40.500	98	13Zet Oph	2.5710	30000.	81	11936	No
GOM_TRA_1PNPDE20040611_224441_000000392027_00359_11936_0005.N1	11-JUN-2004 22:44:41	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	11936	No
GOM_TRA_1PNPDE20040611_224743_000000372027_00359_11936_0006.N1	11-JUN-2004 22:47:43	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	11936	No
GOM_TRA_1PNPDE20040611_225019_000000502027_00359_11936_0007.N1	11-JUN-2004 22:50:19	Bright	50.000	59	55Alp Oph	2.0800	8900.0	100	11936	No
GOM_TRA_1PNPDE20040611_225206_000000412027_00359_11936_0008.N1	11-JUN-2004 22:52:06	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	11936	No
GOM_TRA_1PNPDE20040611_225326_000000392027_00359_11936_0009.N1	11-JUN-2004 22:53:26	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	11936	No
GOM_TRA_1PNPDE20040611_225514_000000412027_00359_11936_0010.N1	11-JUN-2004 22:55:14	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	11936	No
GOM_TRA_1PNPDE20040611_225713_000000372027_00359_11936_0011.N1	11-JUN-2004 22:57:13	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11936	No
GOM_TRA_1PNPDE20040611_230052_000000422027_00359_11936_0012.N1	11-JUN-2004 23:00:52	Bright	42.000	39	85Eta UMa	1.8540	24000.	84	11936	No
GOM_TRA_1PNPDE20040611_230247_000000362027_00359_11936_0013.N1	11-JUN-2004 23:02:47	Bright	36.000	55	79Zet UMa	2.0600	10200.	72	11936	No
GOM_TRA_1PNPDE20040611_230649_000000392027_00359_11936_0014.N1	11-JUN-2004 23:06:49	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	11936	No
GOM_TRA_1PNPDE20040611_231130_000000352027_00359_11936_0015.N1	11-JUN-2004 23:11:30	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	11936	No
GOM_TRA_1PNPDE20040611_231900_0000002552027_00359_11936_0016.N1	11-JUN-2004 23:19:00	Bright	255.00	92	53Eps Cyg	2.5000	4500.0	510	11936	No
GOM_TRA_1PNPDE20040611_232511_000000432027_00359_11936_0017.N1	11-JUN-2004 23:25:11	Twilight	42.500	73	57Gam1And	2.2600	13100.	85	11936	No
GOM_TRA_1PNPDE20040611_232731_000000582027_00359_11936_0018.N1	11-JUN-2004 23:27:31	Twilight	58.000	53	43Bet And	2.0480	3300.0	116	11936	No
GOM_TRA_1PNPDE20040611_233052_000000512027_00359_11936_0019.N1	11-JUN-2004 23:30:52	Twilight	51.000	50	13Alp Ari	2.0070	4250.0	102	11936	No
GOM_TRA_1PNPDE20040611_233310_000001532027_00359_11936_0020.N1	11-JUN-2004 23:33:10	Dark	152.50	93	53Bet Peg	2.5200	3100.0	305	11936	No
GOM_TRA_1PNPDE20040611_233643_000000692027_00359_11936_0021.N1	11-JUN-2004 23:36:43	Dark	69.000	140	88Gam Peg	2.8340	26000.	138	11936	No
GOM_TRA_1PNPDE20040611_235326_000000452027_00359_11936_0022.N1	11-JUN-2004 23:53:26	Dark	45.000	9	Alp Eri	0.45300	24000.	90	11936	No
GOM_TRA_1PNPDE20040611_235626_000000672027_00360_11937_0023.N1	11-JUN-2004 23:56:26	Dark	66.500	18	24Alp PsA	1.1660	9700.0	133	11937	No

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



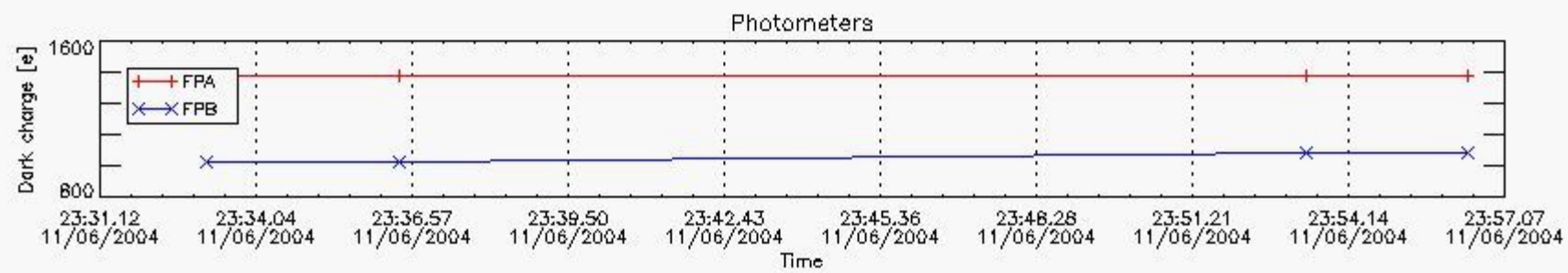
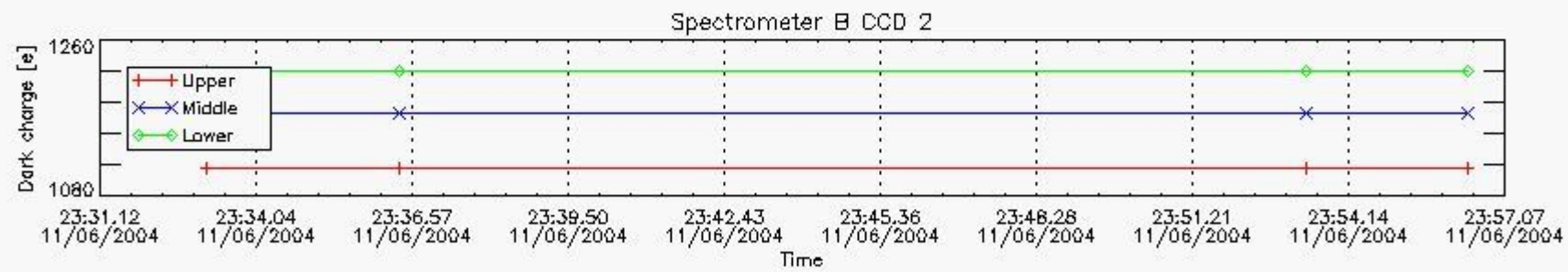
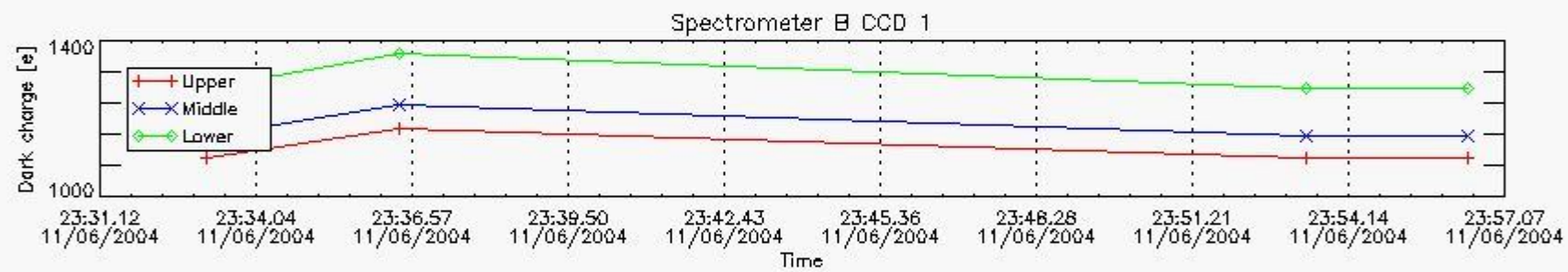
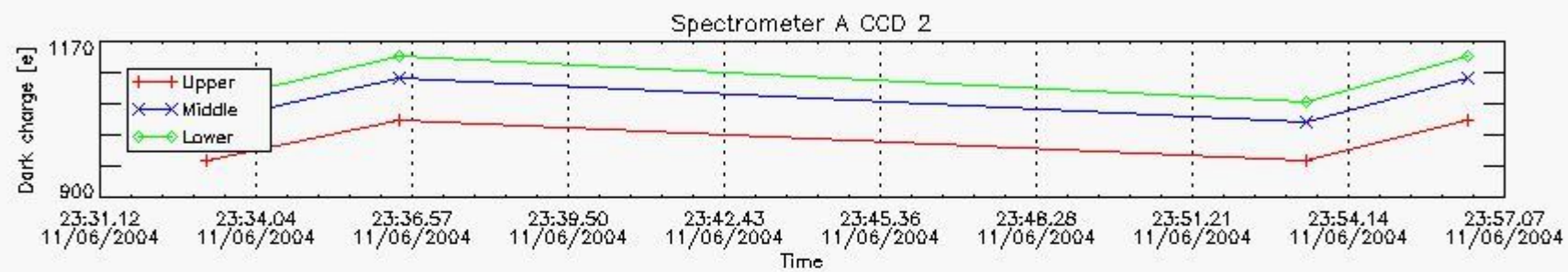
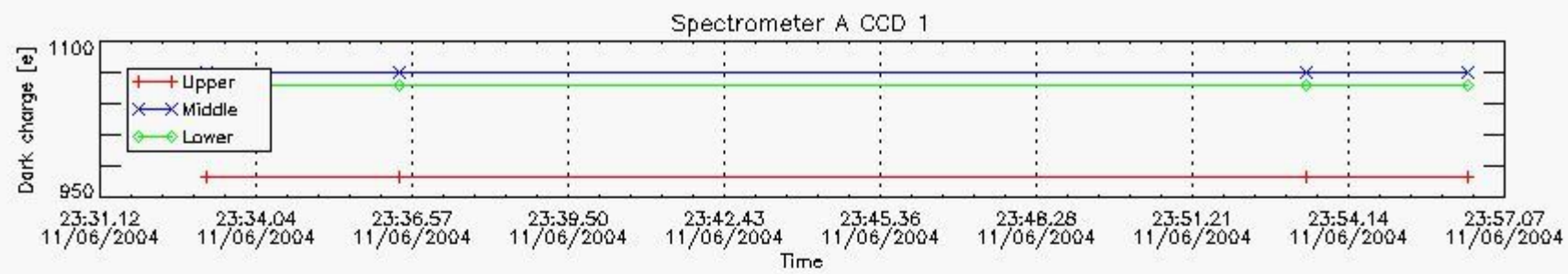
4. Overview of dark signal processing per product

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



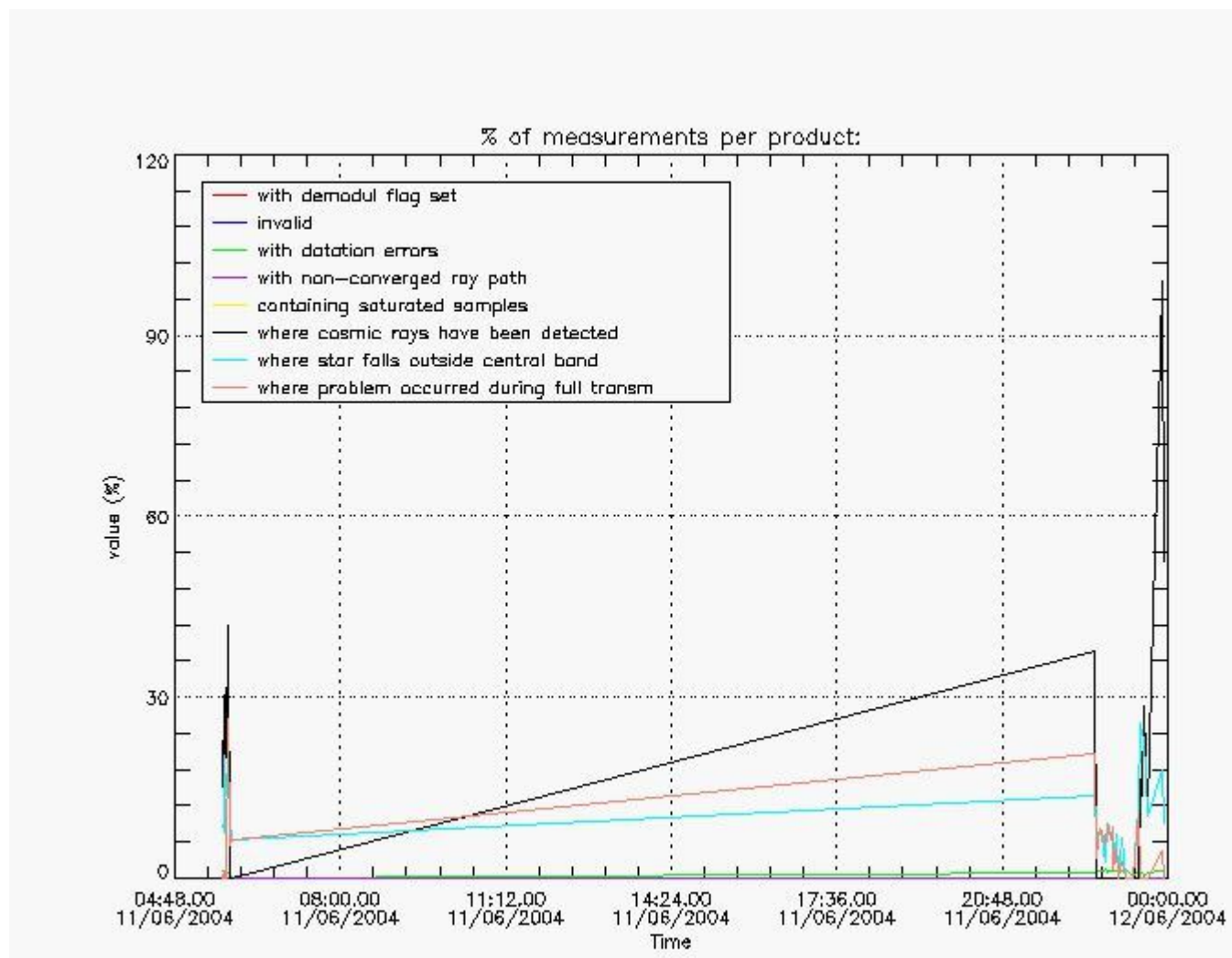
5. Demodulation flag and quality information monitoring

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:

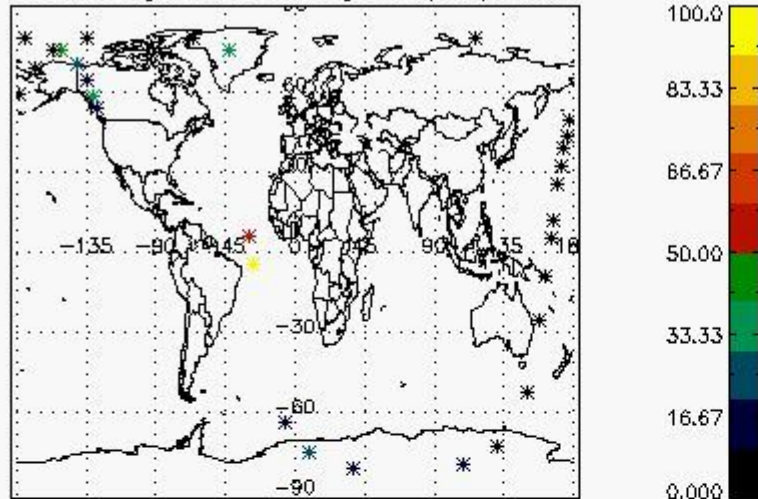
At least one measurement with demodulation flag set:	3.33333 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

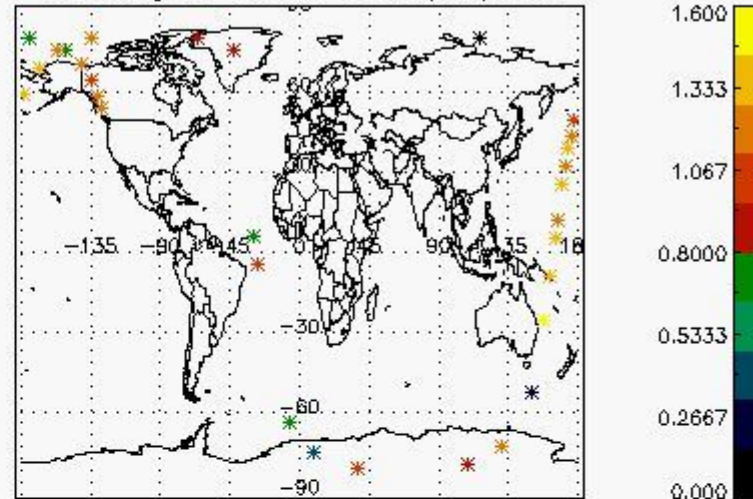


5.3 Plot quality information per product (world map)

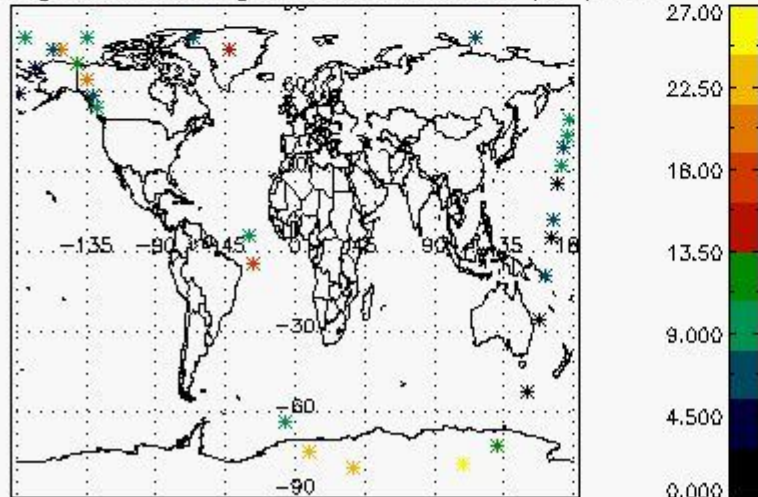
Percentage of cosmic ray hits per profile



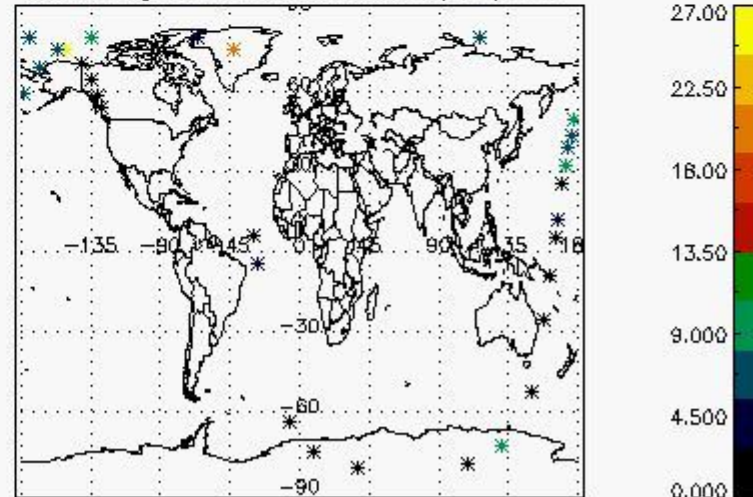
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



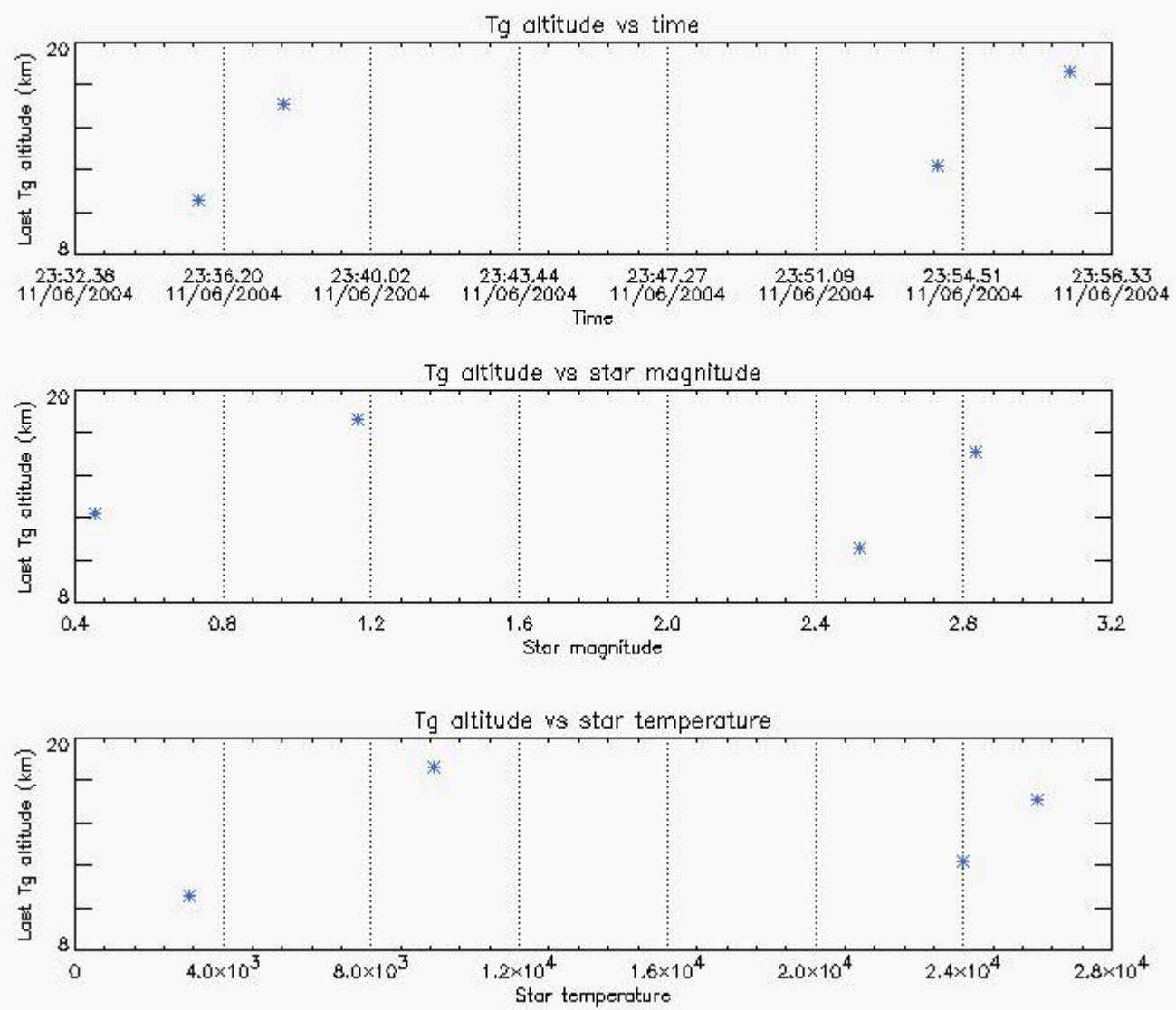
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.758	20.355	11.883
St. deviation:	3.3184	6.4647	4.6817
Maximum:	18.405	43.146	17.254
Minimum:	11.100	11.316	8.6648
Number of data:	4.0000	23.000	3.0000

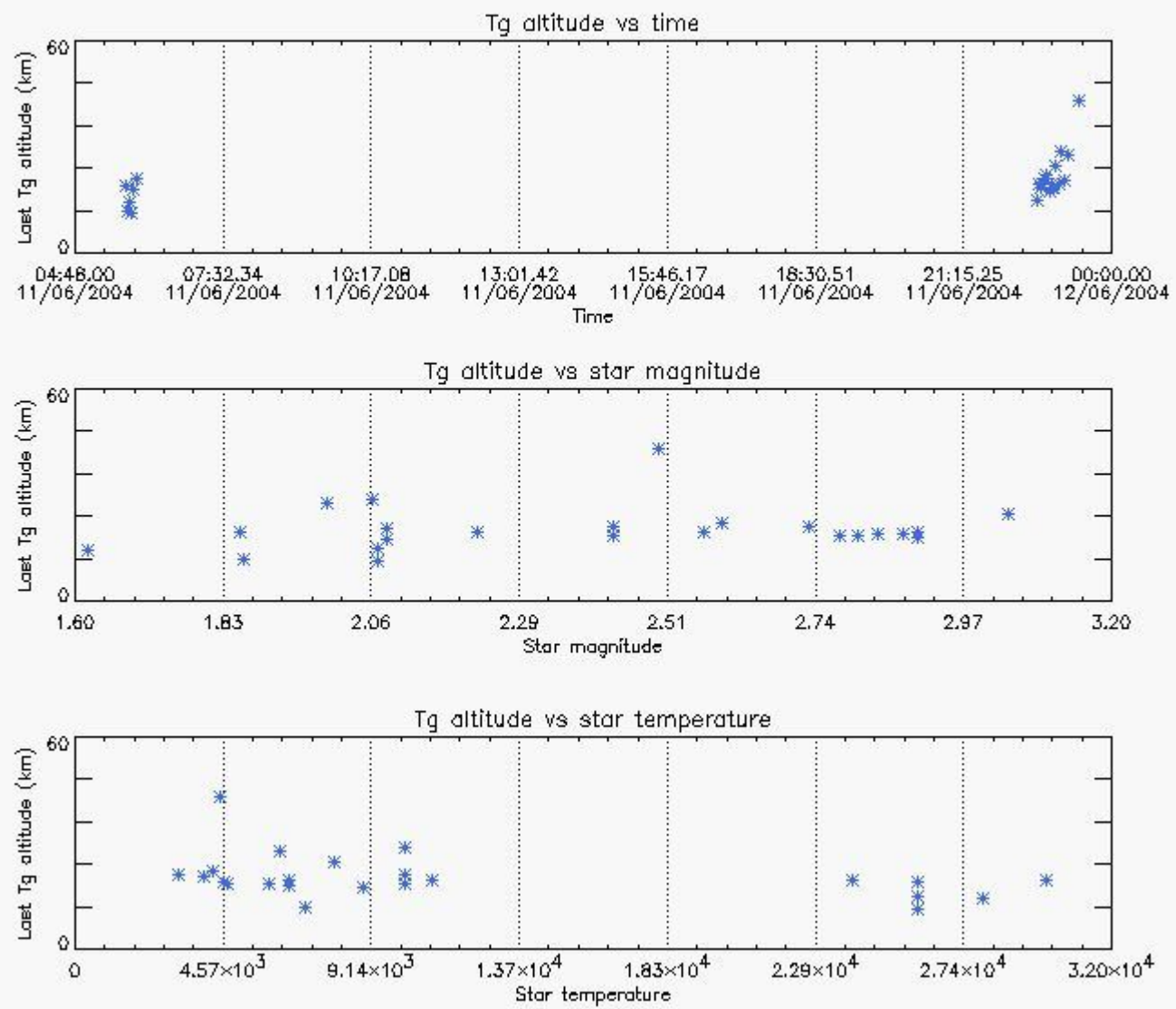
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



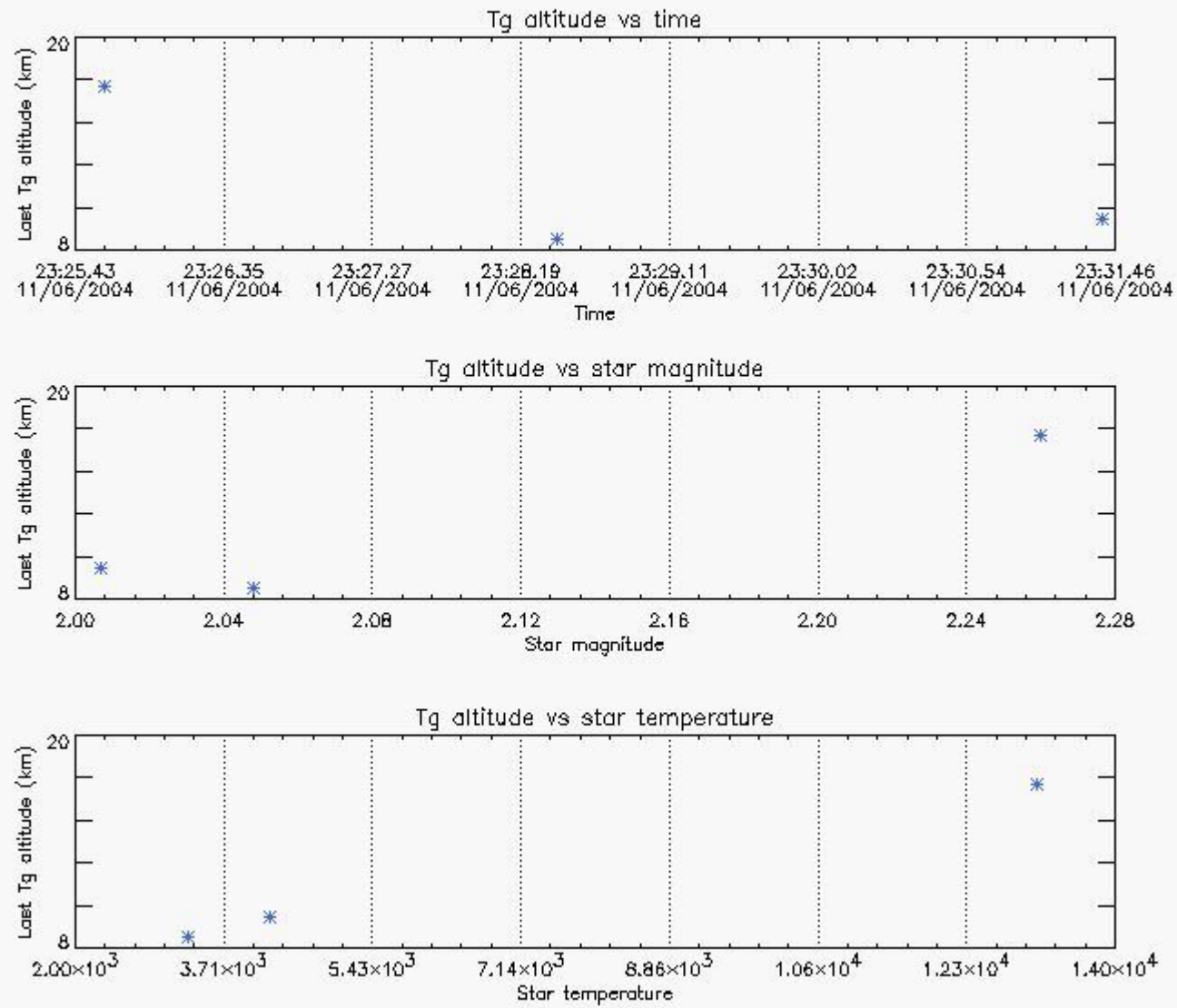
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

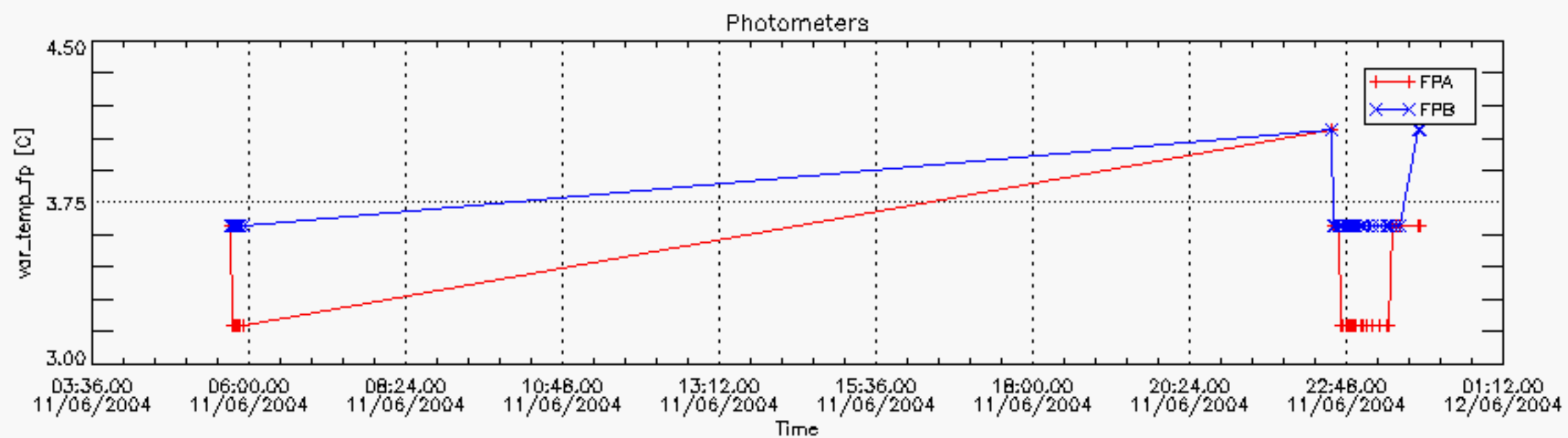
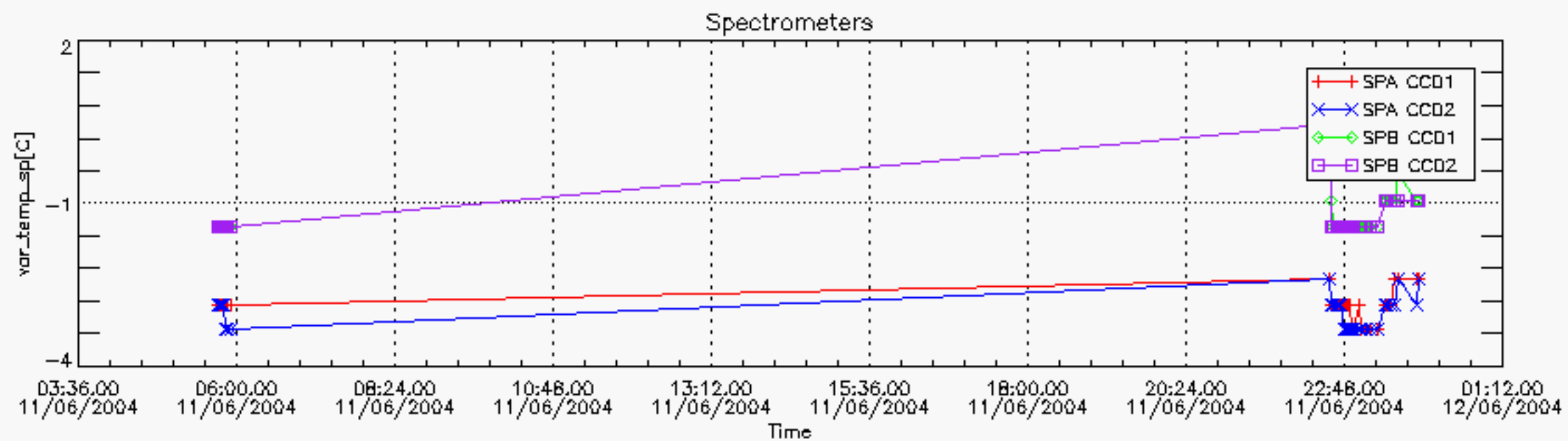
Tangent altitude at which the star is lost

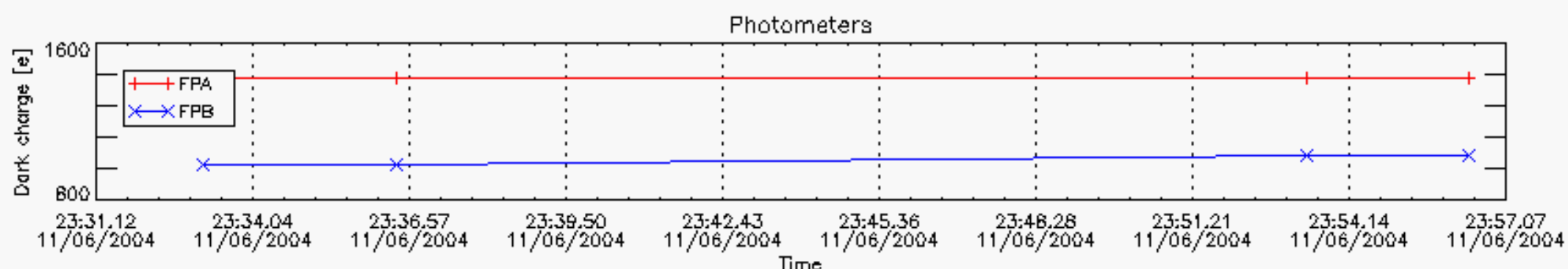
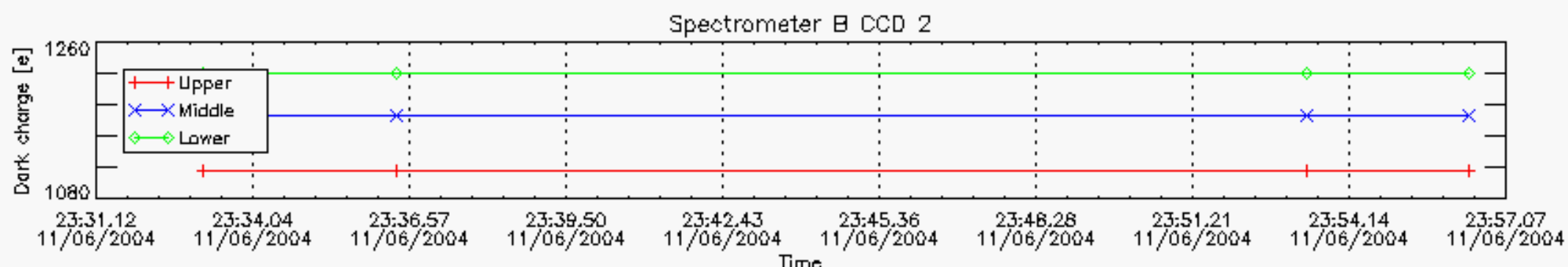
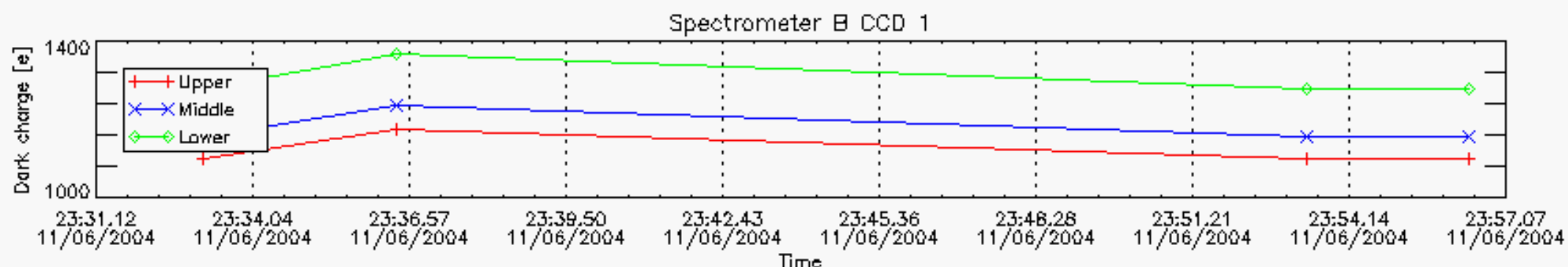
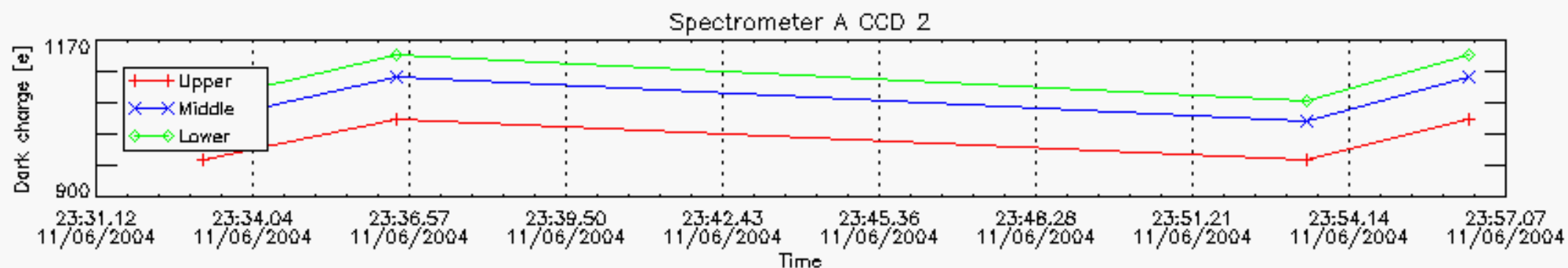
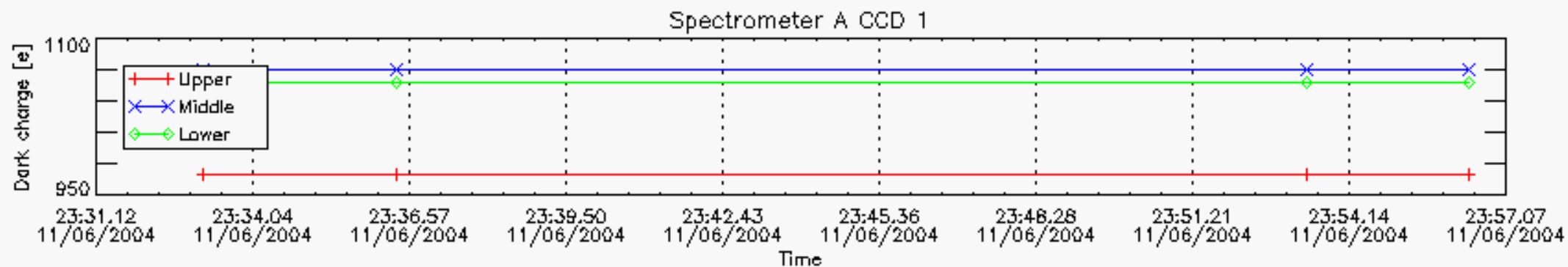


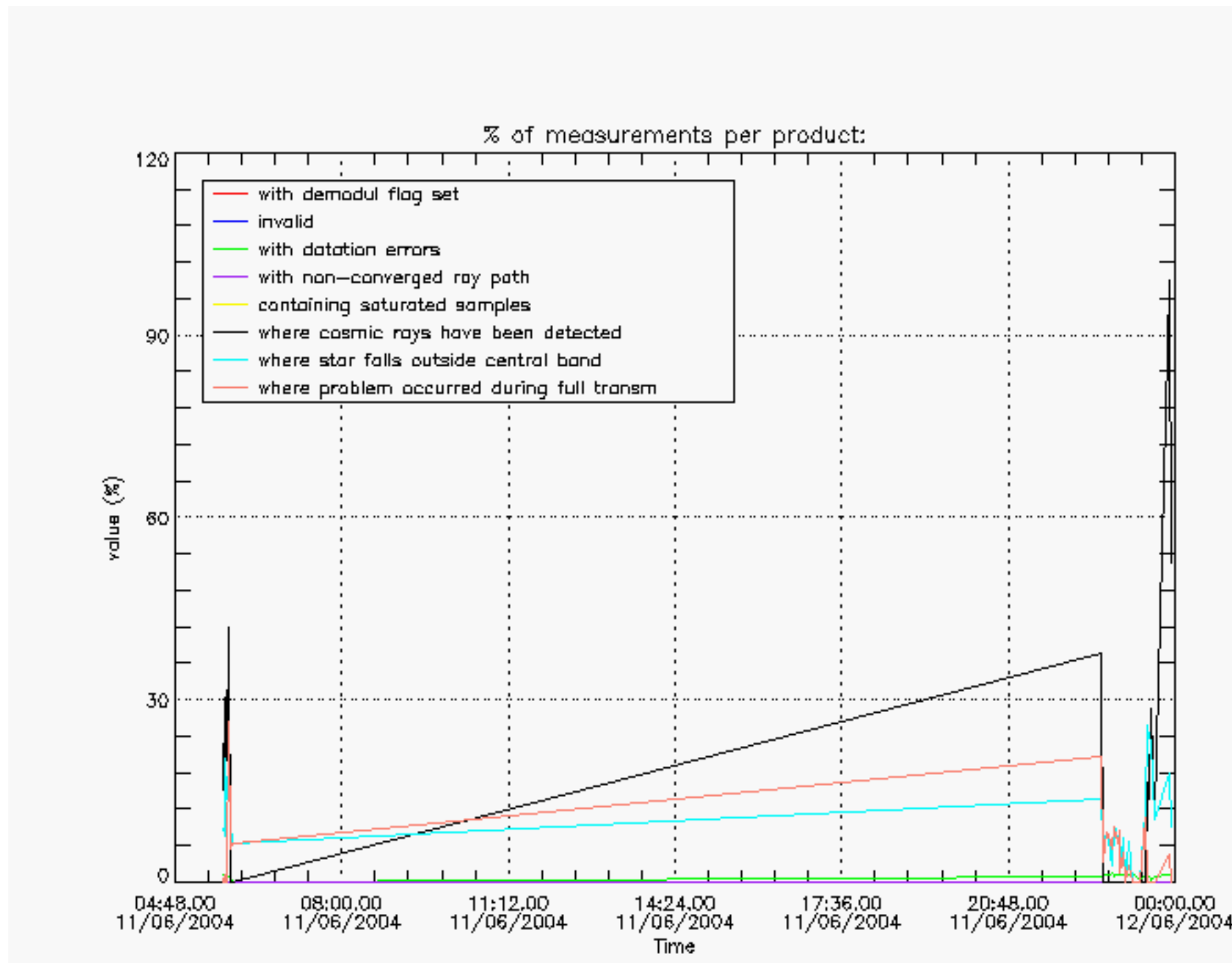
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

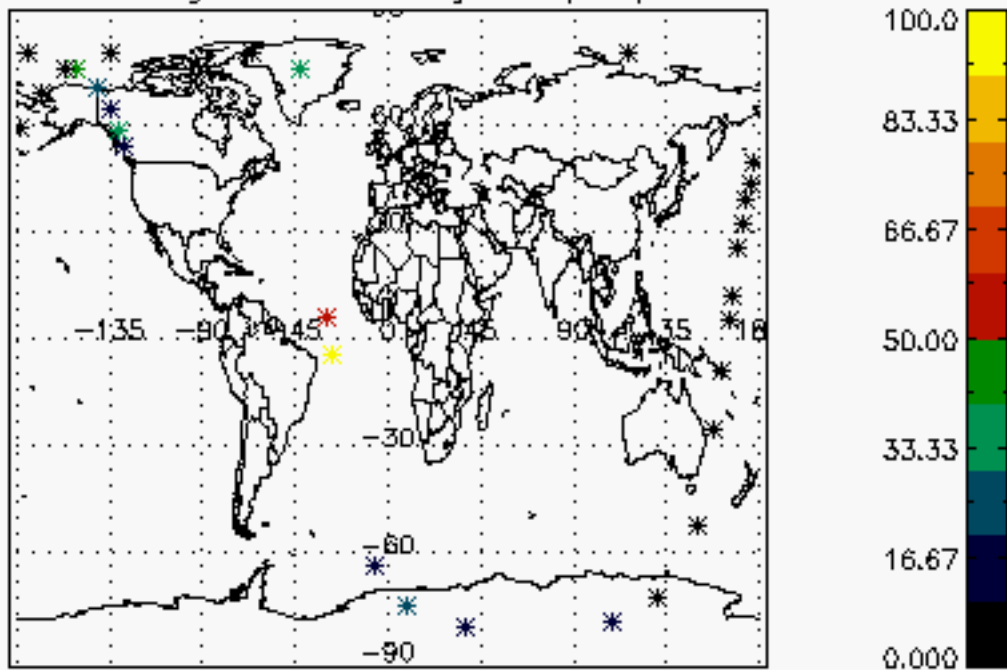
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1463.0	1450.6	1461.6	1447.6
St. deviation:	4.4551	6.2119	7.4021	8.5588
Maximum:	1503.0	1495.0	1500.0	1499.0
Minimum:	1454.0	1431.0	1443.0	1433.0
Number of data:	7600.0	7600.0	30950.	30950.



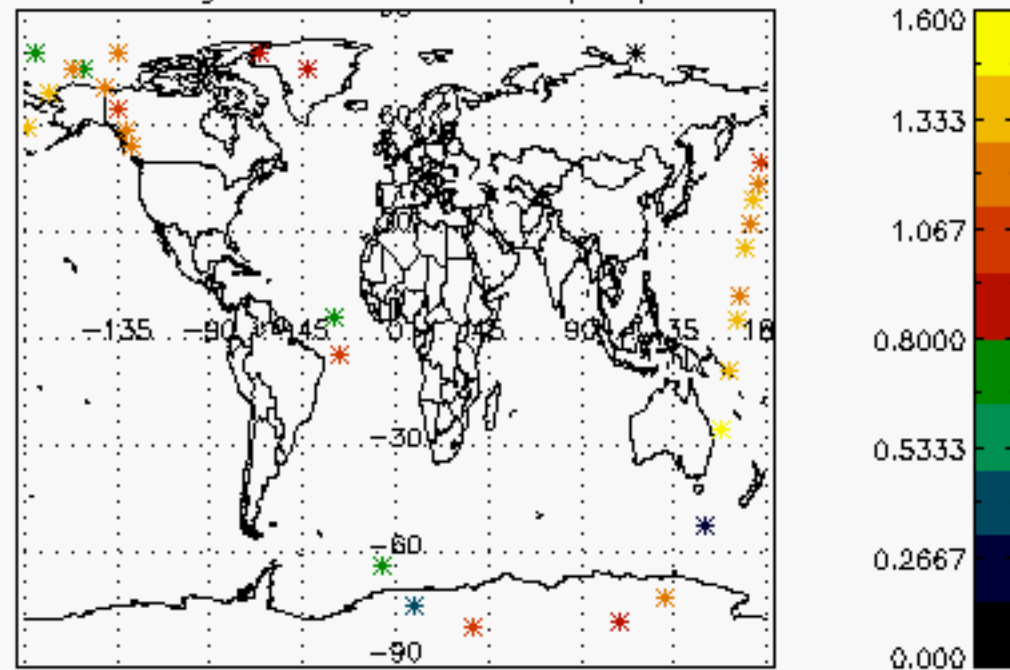




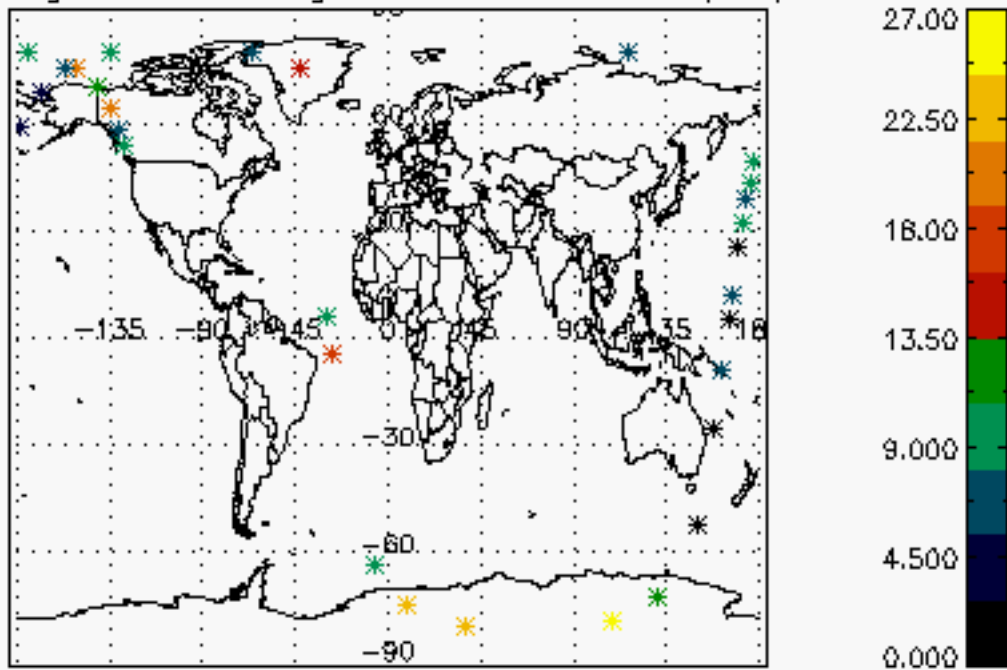
Percentage of cosmic ray hits per profile



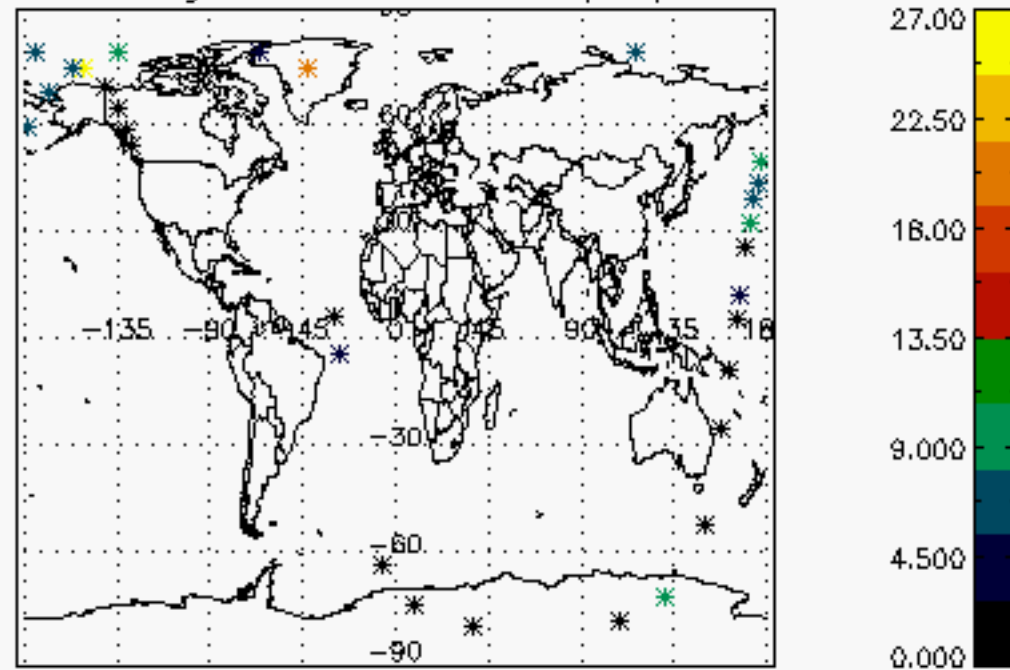
Percentage of datation errors per profile



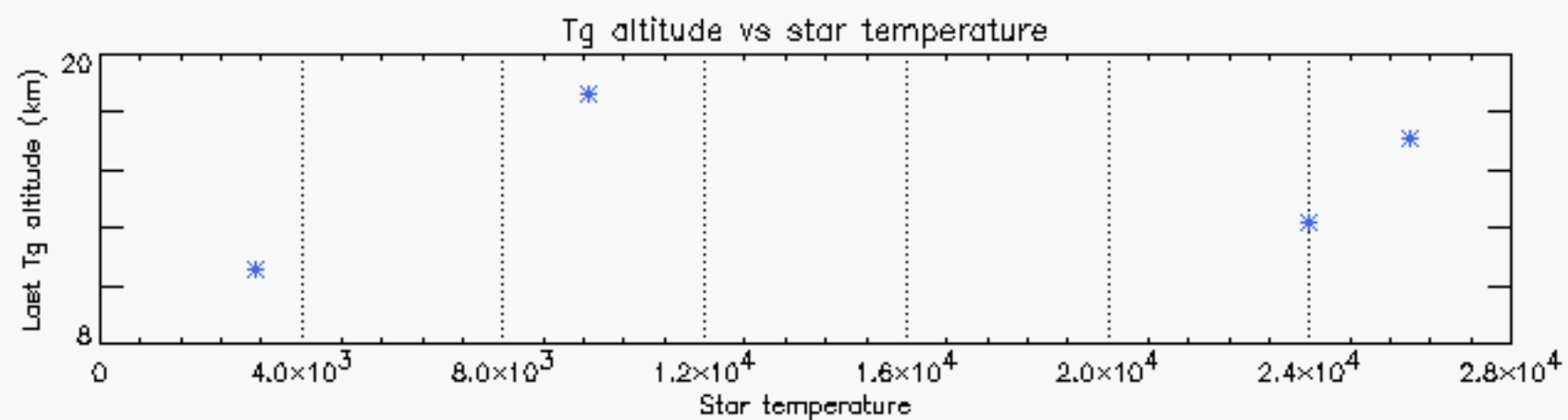
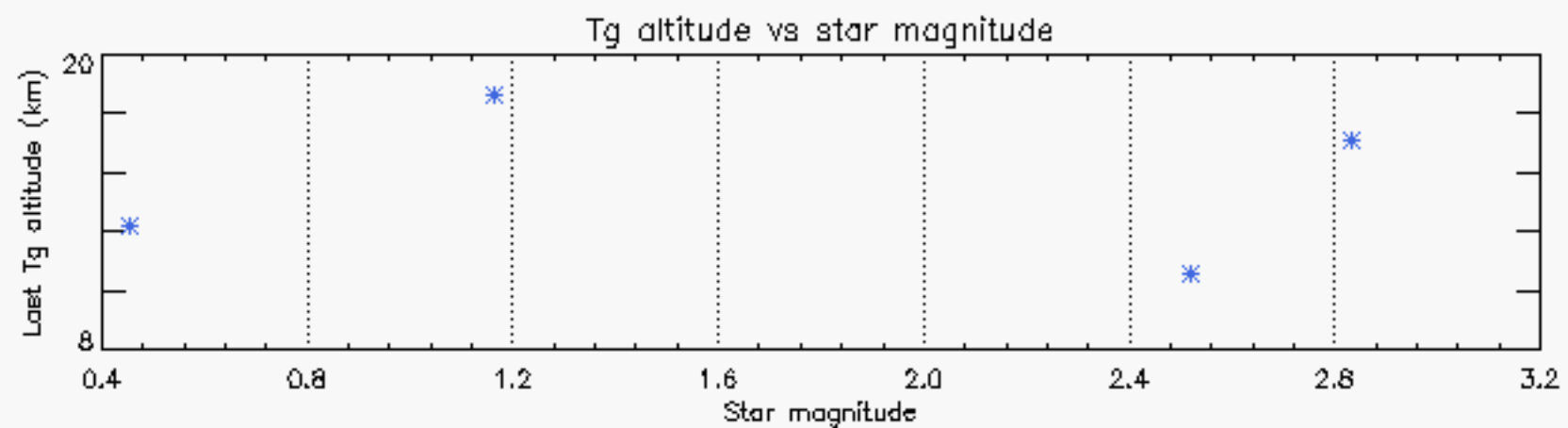
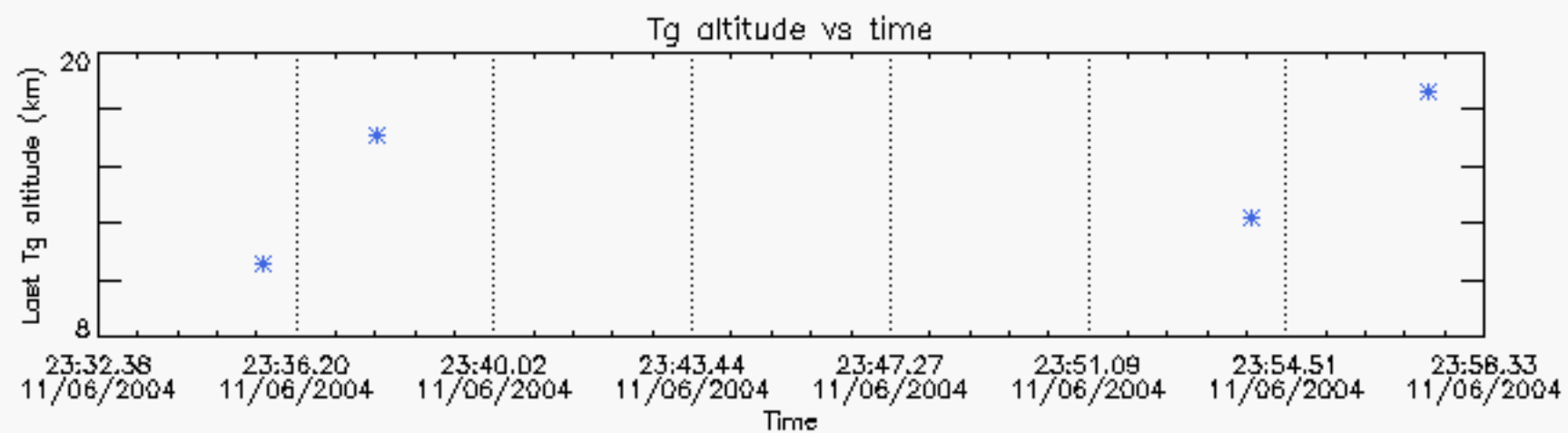
Percentage of star falling outside central band per profile



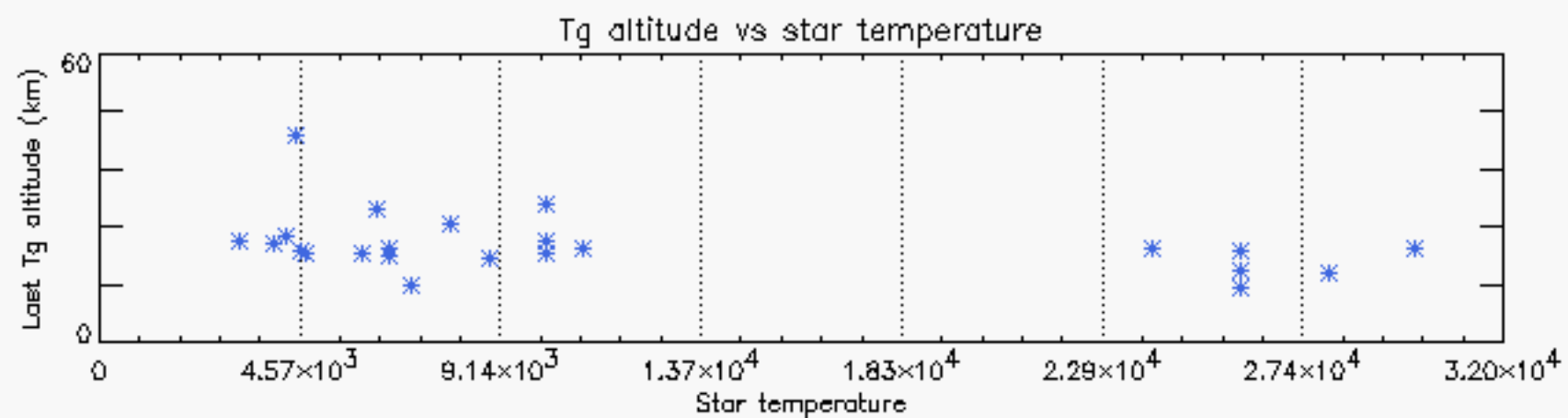
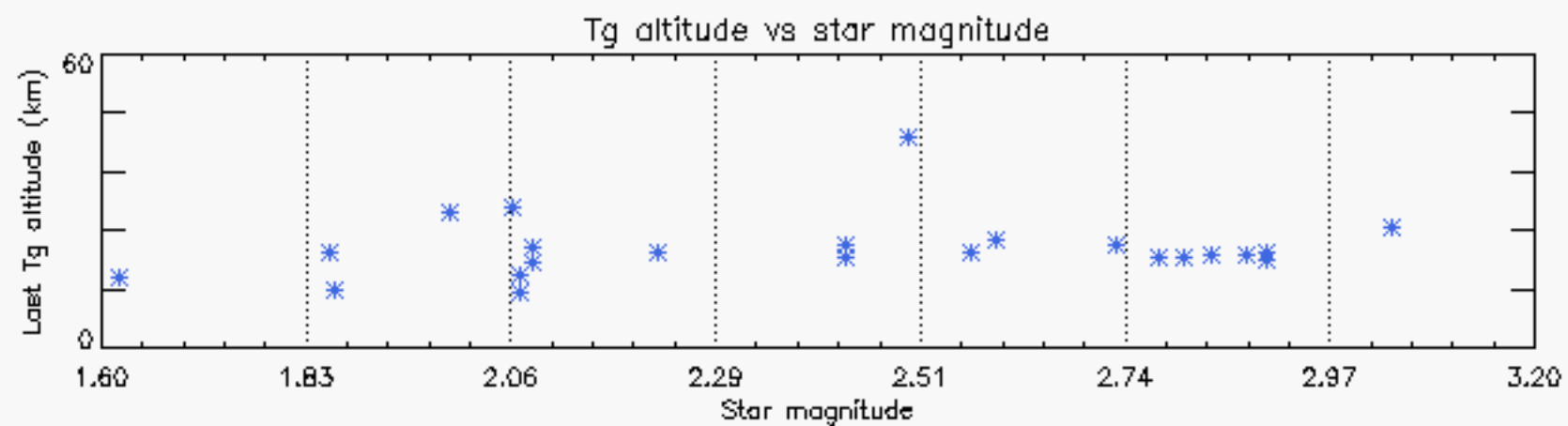
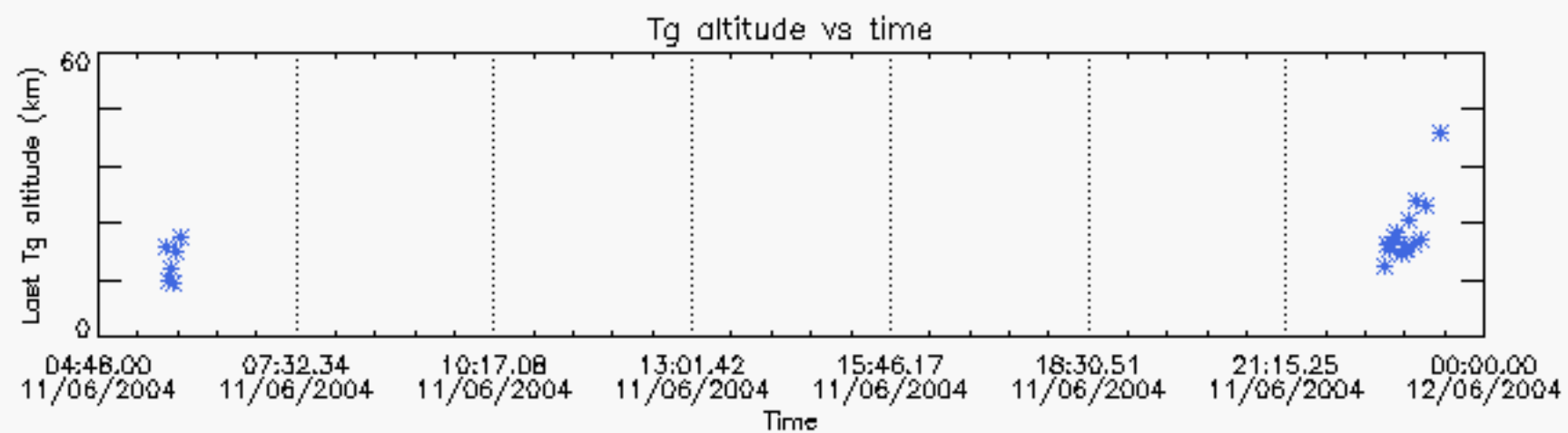
Percentage of saturation errors per profile



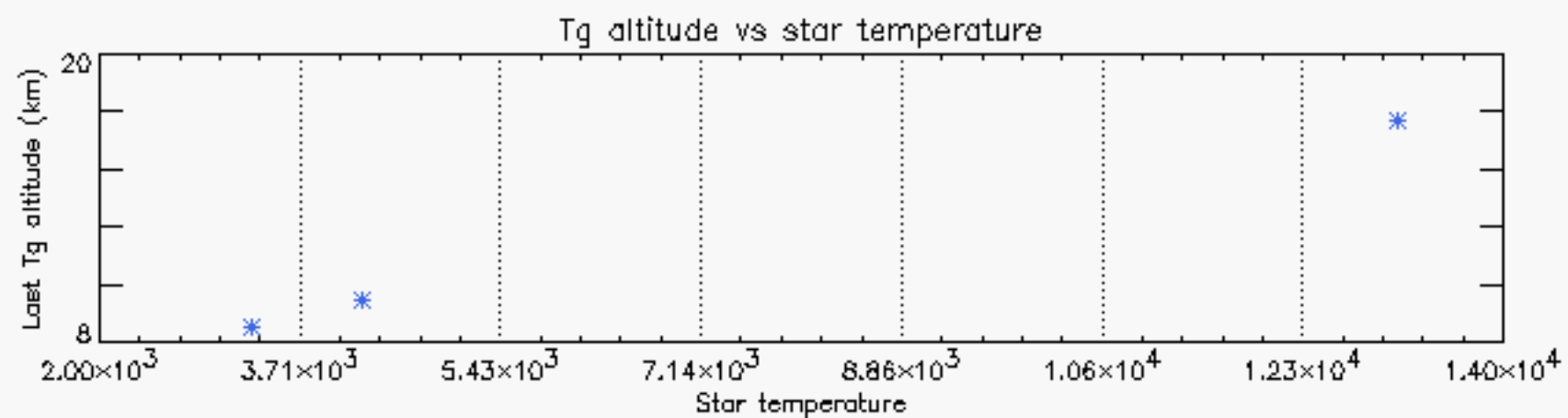
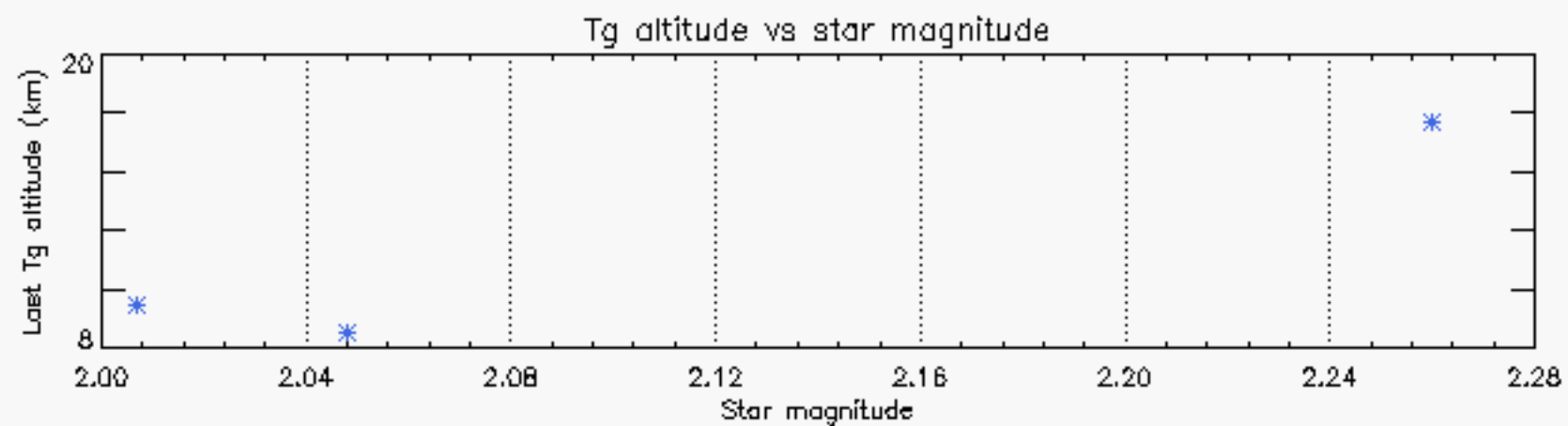
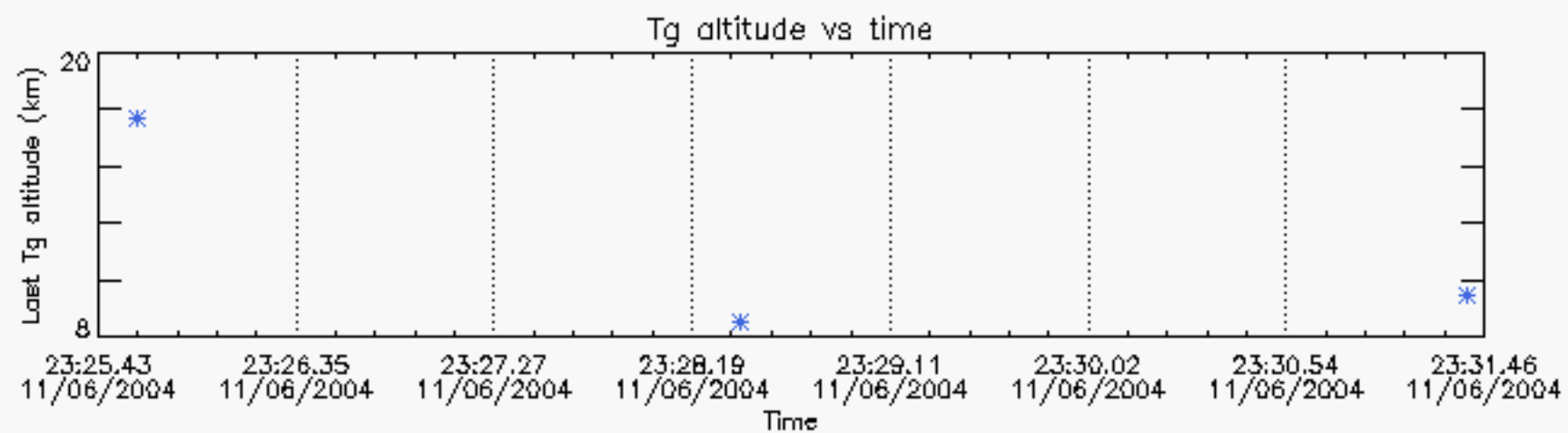
Tangent altitude at which the star is lost



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
 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
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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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22;	2756.8;	19-JUN-2004	02:01:06;	Bright;	;	48.5;	5;	3Alp	Lyr	;	0.03;	11000;occ;	97;	0;	12038
23;	2871.1;	19-JUN-2004	02:03:00;	Bright;	;	45.0;	69;	33Gam	Dra	;	2.23;	3800;occ;	90;	0;	12038
24;	3444.3;	19-JUN-2004	02:12:33;	Bright;	;	37.5;	49;	1Alp	UMi	;	1.99;	6300;occ;	75;	0;	12038
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5;	-1624.0;	19-JUN-2004	02:28:41;	Dark	;	69.0;	53;	43Bet	And	;	2.05;	3300;occ;	138;	0;	12038
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7;	-1118.6;	19-JUN-2004	02:37:06;	Dark	;	40.5;	94;	92Alp	Cet	;	2.53;	3100;occ;	81;	0;	12038
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8; 738.6; 30-JUN-2004 02:22:03; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;12196
9; 972.0; 30-JUN-2004 02:25:56; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;12196
10; 1056.9; 30-JUN-2004 02:27:21; Dark ; 43.5; 147; Alp Ara ; 2.88; 26000;occ; 87; 0;12196
11; 1167.3; 30-JUN-2004 02:29:11; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;12196
12; 1266.7; 30-JUN-2004 02:30:51; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;12196
13; 1351.8; 30-JUN-2004 02:32:16; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;12196
14; 1477.0; 30-JUN-2004 02:34:21; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;12196
15; 1637.2; 30-JUN-2004 02:37:01; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;12196
16; 1744.3; 30-JUN-2004 02:38:48; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;12196
17; 1874.0; 30-JUN-2004 02:40:58; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;12196
18; 1980.4; 30-JUN-2004 02:42:44; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;12196
19; 2120.3; 30-JUN-2004 02:45:04; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;12196
20; 2280.6; 30-JUN-2004 02:47:45; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;12196
21; 2445.5; 30-JUN-2004 02:50:30; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;12196
22; 2654.0; 30-JUN-2004 02:53:58; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;12196
23; 2808.6; 30-JUN-2004 02:56:33; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;12196
24; 2950.4; 30-JUN-2004 02:58:54; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12196
25; 3188.7; 30-JUN-2004 03:02:53; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;12196
26; 3348.3; 30-JUN-2004 03:05:32; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;12196

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