

Predictions for Beta Lyrae type Eclipsing Binaries in January 2008

The following predictions are calculated for Central England but should be usable for observers throughout the British Isles.

The format of each prediction is starthour(mideclipse)endhour , with times being given to the nearest hour UT (=GMT). A value greater than 24 indicates a time on a later date (so, for example, 26 indicates 02h UT on the following day) , << indicates that mid eclipse has occurred on an earlier night and >> indicates that mid eclipse is more than 99 hours into the future. D and L are used to indicate where daylight and low altitude prevent part of the eclipse from being observed.

Note that for Beta Lyrae type variables, there is no period of constant brightness between eclipses, so it is not easy to see when an eclipse starts and ends. The start and end times quoted here assume that the primary eclipse lasts for 20% of the orbital period.

2007 Jan 1 Tue	2008 Jan 2 Wed	2008 Jan 3 Thu
BV Tau 00(02)05	AW Lac 00(03)06	TT Aur 01(04)07D
SX Aur 02(05)07D	HL Aur 04(05)07	AW Lac 04(07)07D
TZ Lyr 04(05)06	TZ Lyr 05(06)07D	V448 Cyg L05(09)07D
LY Aur 04(14)07D	DO Cas 06(07)07D	BF Aur 06(09)07D
XZ Cnc 06(09)07D	V836 Cyg L06(07)07D	TZ Lyr 07(08)07D
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LY Aur D17(14)23	68u Her D17(13)18	V448 Cyg D17(09)22L
GO Cyg D17(16)17	GK Cep D17(15)17	IU Aur D17(14)18
ST Aqr D17(16)18	MN Cas D17(19)24	SX Aur D17(15)18
V836 Cyg D17(16)17	V548 Cyg D17(20)25	DO Cas D17(16)18
GK Cep D17(16)19	BM CasII D17(>>)31D	BM CasII D17(>>)31D
TZ Lyr D17(18)19	V448 Cyg 17(33)22L	GO Cyg 18(19)21
IU Aur D17(19)23	TZ Lyr 18(19)20	BV Tau 19(21)24
BF Aur D17(19)23	HL Aur 19(20)22	TZ Lyr 19(20)21L
TT Aur D17(20)23	BV Tau 21(23)25	
BM CasII D17(>>)31D	V836 Cyg 22(23)23L	
TX Cas 21(28)31D	DO Cas 22(24)26	
BV Tau 22(25)27		
2008 Jan 4 Fri	2008 Jan 5 Sat	2008 Jan 6 Sun
HL Aur 00(02)03	BetLyrII L04(04)07D	BetLyrII L04(<<)07D
BetLyrII L04(28)07D	LY Aur 04(14)07L	V505 Mon 04(>>)05L
V836 Cyg L06(07)07D	367CygII L05(48)07D	367CygII L05(24)07D
AD And 07(09)07D	IU Aur 05(09)07L	V836 Cyg L06(06)07D
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68u Her D17(15)18L	GO Cyg L05(06)07D	AD And 06(09)07D
V548 Cyg D17(16)20	HL Aur 06(08)07D	GK Cep 06(09)07D
HL Aur D17(17)18	AD And 06(09)07D	V548 Cyg 07(11)07D
MN Cas D17(17)22	BetLyrII D17(04)20L	BF Aur D17(13)17
ST Aqr D17(19)20L	XZ Cep D17(12)24	MN Cas D17(15)20
BetLyrII D17(28)20L	LY Aur D17(14)23	68u Her D17(16)18L
BM CasII D17(>>)31D	DO Cas D17(18)19	GO Cyg D17(16)18
SX Aur 17(20)23	BV Tau D17(18)20	BV Tau D17(16)19
BV Tau 17(20)22	TT Aur D17(20)23	AW Lac D17(17)20
TX Cas 19(26)31D	367CygII D17(48)23L	367CygII D17(24)23L
XZ Cnc L19(17)20	BM CasII D17(98)31D	BM CasII D17(74)31D
BF Aur 20(23)27	XZ Cnc L19(20)22	V505 Mon L19(>>)29L
TZ Lyr 21(22)21L	HL Aur 21(23)24	XZ Cnc 20(22)25
V836 Cyg 21(22)23L	GO Cyg 21(23)22L	V836 Cyg 20(21)23L
UW CMA L23(30)26L	SX Aur 22(25)28	

DO Cas 24(25)27 XZ Cep 24(36)31D		
2008 Jan 7 Mon	2008 Jan 8 Tue	2008 Jan 9 Wed
TT Aur 01(04)07D IU Aur 01(05)07L DO Cas 01(02)04 TZ Lyr L02(01)02 HL Aur 03(05)06 SX Aur 03(06)07D 367CygII L05(00)07D GK Cep 05(07)07D AD And 06(08)07D ----- 367CygII D17(00)23L BM CasII D17(50)31D DO Cas 17(19)21 TX Cas 17(24)31D AW Lac 18(20)23 HL Aur 18(20)21 V505 Mon L18(>>)29L XZ Cnc 22(25)28 BF Aur 24(27)31D	TZ Lyr L02(02)03 V548 Cyg 02(06)07D GK Cep 03(06)07D 367CygII L05(<<)07D AD And 05(08)07D V836 Cyg L06(05)06 ----- 367CygII D17(<<)20 MN Cas D17(13)18 ST Aqr D17(16)18 68u Her D17(17)18L BM CasII D17(26)31D GO Cyg 18(20)22 V505 Mon L18(85)29L V836 Cyg 19(20)22 IU Aur 20(24)29 AW Lac 21(24)26 HL Aur 24(25)27	XZ Cnc 01(04)06 GK Cep 02(04)06 TZ Lyr 02(03)05 DO Cas 02(04)05 LY Aur 04(14)07L AD And 05(08)07D V448 Cyg 06(21)07D ----- BM CasII D17(02)31D LY Aur D17(14)23 TZ Lyr D17(16)17 SX Aur D17(16)19 HL Aur D17(16)18 BF Aur D17(17)21 TT Aur D17(20)23 V448 Cyg D17(21)21L V505 Mon L18(61)29L DO Cas 19(20)22 V548 Cyg 21(26)30 UW CMa L22(15)25L
2008 Jan 10 Thu	2008 Jan 11 Fri	2008 Jan 12 Sat
GK Cep 00(03)05 AW Lac 00(03)06 XZ Cep 02(14)07D TZ Lyr 03(05)06 XZ Cnc 04(07)07D V448 Cyg L04(<<)07D AD And 05(07)07D GO Cyg L05(06)07D HL Aur 06(07)07D MN Cas 06(11)07D ----- BM CasII D17(<<)31D XZ Cep D17(14)26 TZ Lyr D17(17)19 68u Her D17(18)18L IU Aur D17(20)24 TX Cas D17(23)30 Beta Lyr D17(39)20L V836 Cyg 18(19)21 V505 Mon L18(37)28L SX Aur 18(21)24 HL Aur 21(22)24 GK Cep 23(25)27	TT Aur 01(04)07L Beta Lyr L03(15)07D DO Cas 03(05)07 BF Aur 04(07)07D AW Lac 04(07)07D AD And 04(07)07D TZ Lyr 05(06)07D XZ Cnc 07(09)07D ----- BM CasII D17(<<)31D Beta Lyr D17(15)19L GO Cyg D17(17)18 V548 Cyg D17(21)25 ST Aqr 18(19)19L TZ Lyr 18(19)20 V505 Mon L18(13)28L DO Cas 20(21)23 GK Cep 21(23)26 SX Aur 23(26)29	HL Aur 03(04)06 Beta Lyr L03(<<)07D BV Tau 04(06)05L AD And 04(07)07D MN Cas 04(09)07D TZ Lyr 06(08)07D ----- BM CasII D17(<<)31D Beta Lyr D17(<<)19L IU Aur D17(15)20 V836 Cyg D17(18)20 68u Her D17(20)18L HL Aur 18(19)21 BF Aur 18(21)25 V505 Mon L18(<<)28L TZ Lyr 19(20)20L GK Cep 20(22)24
2008 Jan 13 Sun	2008 Jan 14 Mon	2008 Jan 15 Tue
BV Tau 02(05)05L AD And 04(06)07D	BV Tau 01(03)05L MN Cas 02(07)07D	TT Aur 00(04)07L 68u Her L02(<<)02

LY Aur 04(14)06L SX Aur 05(07)07D GO Cyg L05(03)05 DO Cas 05(06)07D ----- BM CasII D17(<<)31D LY Aur D17(14)23 V548 Cyg D17(16)20 TT Aur D17(20)23 TX Cas D17(21)28 V505 Mon L18(<<)28L GK Cep 18(20)23 GO Cyg 19(20)21L DO Cas 21(23)24 UW CMa L22(25)25L HL Aur 23(25)26	AD And 04(06)07D ----- BM CasII D17(<<)31D HL Aur D17(16)17 AW Lac D17(17)20 V836 Cyg D17(17)19 GK Cep D17(19)21 68u Her D17(21)18L V367 Cyg D17(55)22L V505 Mon L18(<<)28L XZ Cnc L19(17)20 BV Tau 23(25)28	AD And 03(06)07D V367 Cyg L04(31)07D XZ Cep 04(17)07D GO Cyg 05(07)07D HL Aur 05(07)07D DO Cas 06(08)07D ----- BM CasII D17(<<)31D XZ Cep D17(17)29 ST Aqr D17(17)19L GK Cep D17(17)20 SX Aur D17(17)20 V367 Cyg D17(31)22L AW Lac 18(20)23 V505 Mon L18(<<)28L V448 Cyg 18(34)21L XZ Cnc L19(20)23 HL Aur 20(22)23 BV Tau 21(24)26 BF Aur 22(25)29 DO Cas 22(24)26
2008 Jan 16 Wed	2008 Jan 17 Thu	2008 Jan 18 Fri
MN Cas 00(05)07D TZ Lyr L01(00)02 IU Aur 02(06)06L AD And 03(05)07D V448 Cyg L04(10)07D V367 Cyg L04(07)07D ----- BM CasII D17(<<)31D V367 Cyg D17(07)22L V448 Cyg D17(10)21L GK Cep D17(16)18 V836 Cyg D17(16)18 DO Cas D17(17)18 GO Cyg D17(17)19 TX Cas D17(19)26 68u Her D17(22)18L V505 Mon L18(<<)22 SX Aur 20(23)25 BV Tau 20(22)24 XZ Cnc 20(23)26 AW Lac 21(24)26	TZ Lyr L01(02)03 68u Her L01(<<)03 HL Aur 02(04)05 AD And 02(05)07D V548 Cyg 02(07)07D BetLyrII L03(26)07D V367 Cyg L04(<<)07D LY Aur 04(14)06L V836 Cyg 07(08)07D ----- BM CasII D17(<<)31D V367 Cyg D17(<<)22L LY Aur D17(14)24 BF Aur D17(15)19 HL Aur D17(19)20 TT Aur D17(20)23 BetLyrII D17(26)19L BV Tau 18(20)23 IU Aur 21(26)30L MN Cas 22(27)31D XZ Cnc 23(26)28 UW CMa 24(34)25L DO Cas 24(25)27	AW Lac 00(03)06 SX Aur 01(04)06 TZ Lyr 02(03)04 AD And 02(05)07D BetLyrII L03(02)07D GO Cyg L04(04)05 ----- BM CasII D17(<<)31D BetLyrII D17(02)19L DO Cas D17(18)19 BV Tau D17(19)21 ST Aqr 18(20)19L GO Cyg 19(21)21L V548 Cyg 22(26)30 HL Aur 23(24)26
2008 Jan 19 Sat	2008 Jan 20 Sun	2008 Jan 21 Mon
TT Aur 00(04)06L 68u Her L01(<<)04 BF Aur 02(05)07L XZ Cnc 02(04)07L AD And 02(04)07 BetLyrII L03(<<)07D TZ Lyr 03(05)06 AW Lac 04(07)07D V836 Cyg 06(07)07D SX Aur 06(09)07D	DO Cas 01(03)04 AD And 02(04)06 XZ Cnc 04(07)07L TZ Lyr 05(06)07D HL Aur 05(06)07D GO Cyg 06(07)07D ----- BM CasII D17(<<)31D BV Tau D17(15)18 TZ Lyr D17(19)20L	68u Her L01(01)05 AD And 01(04)06 LY Aur 04(14)06L V836 Cyg L05(06)07D GK Cep 06(08)07D TZ Lyr 06(07)07D ----- BM CasII D17(<<)31D LY Aur D17(14)24 IU Aur D17(17)21

----- BM CasII D17(<<)31D BV Tau D17(17)19 TZ Lyr D17(17)19 TX Cas D17(17)24 IU Aur D17(21)26 MN Cas 20(25)30 V836 Cyg 21(23)22L	XZ Cep D17(19)31D BF Aur D17(19)23 V548 Cyg D17(21)26 DO Cas 17(19)21 HL Aur 20(21)23	GO Cyg D17(18)20 SX Aur D17(19)22 TT Aur D17(20)23 RX Cas D17(93)31D MN Cas 18(23)28 TZ Lyr 19(20)20L V836 Cyg 20(22)22L
2008 Jan 22 Tue	2008 Jan 23 Wed	2008 Jan 24 Thu
AD And 01(03)06 HL Aur 02(03)05 DO Cas 02(04)06 GK Cep 04(07)07D BF Aur 06(09)06L V448 Cyg 07(22)07D ----- BM CasII D17(<<)31D TX Cas D17(16)23 V548 Cyg D17(17)21 AW Lac D17(17)20 ST Aqr D17(18)18L HL Aur D17(18)20 V448 Cyg D17(22)20L RX Cas D17(69)31D DO Cas 19(20)22 SX Aur 21(24)27 UW CMA L22(20)25L	TT Aur 00(04)06L AD And 01(03)05 68u Her L01(02)07 GK Cep 03(05)07D V448 Cyg L03(<<)07D GO Cyg L04(04)06 V836 Cyg L05(05)07D ----- BM CasII D17(<<)31D MN Cas D17(21)26 Beta Lyr D17(38)19L RX Cas D17(45)31D 367CygII D17(62)22L AW Lac 18(20)23 V836 Cyg 19(21)22L BF Aur 20(23)27 GO Cyg 20(22)21L HL Aur 22(24)25	AD And 00(03)05 GK Cep 01(04)06 SX Aur 02(05)07L Beta Lyr L02(14)07D 367CygII L03(38)07D DO Cas 04(05)07D ----- BM CasII D17(<<)31D Beta Lyr D17(14)19L RX Cas D17(21)31D 367CygII D17(38)22L XZ Cnc L18(18)21 DO Cas 20(22)23 AW Lac 21(24)26 GK Cep 24(26)28 AD And 24(26)29
2008 Jan 25 Fri	2008 Jan 26 Sat	2008 Jan 27 Sun
TZ Lyr L01(00)01 68u Her L01(03)07D Beta Lyr L02(<<)07D IU Aur 03(08)05L 367CygII L03(14)07D HL Aur 04(06)07D LY Aur 04(14)06L V836 Cyg L05(04)06 GO Cyg 06(08)07D ----- BM CasII D18(<<)31D Beta Lyr D18(<<)19L RX Cas D18(<<)31D TX Cas D18(14)21 LY Aur D18(14)24 367CygII D18(14)21L MN Cas D18(19)24 TT Aur D18(20)23 XZ Cep D18(21)31D XZ Cnc 18(21)23 V836 Cyg 18(20)21L HL Aur 19(21)22 GK Cep 22(25)27 AD And 24(26)28	AW Lac 00(03)06 TZ Lyr L00(02)03 BV Tau 03(05)04L V548 Cyg 03(07)07D 367CygII L03(<<)07D DO Cas 05(07)07D ----- BM CasII D18(<<)31D RX Cas D18(<<)31D 367CygII D18(<<)21L SX Aur D18(15)18 GO Cyg D18(19)20 GK Cep 21(23)25 XZ Cnc 21(23)26 DO Cas 21(23)25 UW CMA L21(29)24L IU Aur 23(27)29L AD And 23(26)28 BF Aur 24(27)30L	TT Aur 00(04)06L 68u Her L01(04)07D HL Aur 01(03)04 BV Tau 01(04)04L TZ Lyr 02(03)04 367CygII L03(<<)07D AW Lac 04(07)07D V836 Cyg L04(03)05 ----- BM CasII D18(<<)31D RX Cas D18(<<)26 MN Cas D18(17)22 HL Aur D18(18)19 V836 Cyg D18(19)21 SX Aur D18(20)23 GK Cep 19(21)24 V548 Cyg 22(27)31D AD And 23(25)28 XZ Cnc 24(26)29 BV Tau 24(26)28L

2008 Jan 28 Mon	2008 Jan 29 Tue	2008 Jan 30 Wed
TZ Lyr 03(04)06 GO Cyg L04(05)07D TX Cas 05(12)07D DO Cas 06(08)07D BM CasII D18(<<)19 TX Cas D18(12)19 TZ Lyr D18(17)18 BF Aur D18(17)21 GK Cep 18(20)22 IU Aur 18(23)27 V448 Cyg 19(35)20L HL Aur 22(23)25 BV Tau 22(24)27 SX Aur 22(25)28 AD And 23(25)27 DO Cas 23(24)26	68u Her L01(05)07D XZ Cnc 02(05)06L V448 Cyg L03(11)07D TZ Lyr 04(06)07D LY Aur 05(14)05L ----- V448 Cyg D18(11)20L LY Aur D18(14)24 MN Cas D18(15)20 DO Cas D18(17)18 V836 Cyg D18(18)20 TZ Lyr D18(18)19L GK Cep D18(18)21 ST Aqr D18(19)18L TT Aur D18(20)23 BetLyrII 18(49)18L V548 Cyg 18(22)26 BV Tau 20(23)25 AD And 22(25)27	BetLyrII L02(25)07D SX Aur 03(06)06L BF Aur 04(07)06L HL Aur 04(05)07D XZ Cnc 05(08)06L TZ Lyr 06(07)07D ----- GK Cep D18(17)19 AW Lac D18(17)20 IU Aur D18(18)22 XZ Cep D18(24)31D BetLyrII D18(25)18L TZ Lyr 18(20)19L BV Tau 19(21)23 HL Aur 19(20)22 AD And 22(24)27 DO Cas 24(26)27
2008 Jan 31 Thu		
TT Aur 00(04)05L 68u Her 02(07)07D BetLyrII L02(01)07D TX Cas 03(10)07D GO Cyg L03(02)04 ----- BetLyrII D18(01)18L V836 Cyg D18(17)19 V548 Cyg D18(17)22 DO Cas D18(18)20 GO Cyg D18(19)20L BV Tau D18(19)22 AW Lac D18(20)23 BF Aur D18(21)24X UW CMA L21(15)24X AD And 22(24)24X		