

	SW	XX	AT	BR	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	UY	RW	TT	VZ	VZ	KV	SS	RR	RU
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CNC	CNC	CNC	CNC	CNC	CVN	CET	CET
MAX	9.3	10.3	10.8	10.8	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	11.5	10.7	11.0	7.2	7.2	11.9	11.2	9.3	10.8
MIN	10.8	11.6	11.5	11.9	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	11.9	12.6	12.3	7.9	7.9	13.0	12.5	10.3	12.1
RISE	2	3	3	2	2	2	2	3	2	2	3	2	1	2	3	2	3	1	1	2	2	2	3
0- 1					0.0				5.0		6.0		8.0		5.0	12.0	3.0	8.5	4.0	12.0	8.5		
1- 2	3.5				4.5	8.0	5.5	10.5	5.5		4.5		6.0	7.0	0.5	1.5	6.0	1.5	5.5	12.0	7.5		
2- 3	1.0		2.0		8.5	5.5	8.5		6.0						2.0	3.5	9.0	3.0	7.5	12.0	6.5	0.5	
3- 4					3.5	3.5		7.0	7.0			5.0		6.0	3.5	6.0		5.0	0.5	0.0	5.5	3.0	
4- 5		3.0			7.5	1.5	6.0	13.0	7.5	5.5		6.5	11.0		5.0	8.0	1.5	6.5	2.0	0.0	4.5		
5- 6	3.5				2.5				8.0	7.0	6.0	8.0	9.0		0.5	10.5	4.5	8.0	4.0	0.0	3.5		
6- 7	0.5				6.5	8.0		10.0	9.0	8.0	4.5	9.5	6.5	12.0	2.0	12.5	7.5	1.5	5.5	0.5			
7- 8		0.5	0.5		1.5	6.0	6.5		9.5	9.0		11.0			3.5	2.0	11.0	3.0	7.0	0.5		0.5	
8- 9				0.5	5.5	4.0		6.5	10.0	10.0		12.5		11.0	5.5	4.0	0.5	4.5	0.5	0.5		2.5	
9-10	3.0	4.5			0.5	2.0		12.5	10.5	11.0					0.5	6.5	3.5	6.5	2.0	0.5	10.5		
10-11	0.0		2.5		4.5		7.0		11.5	12.5	6.0		9.5	10.0	2.0	8.5	6.5	8.0	3.5	0.5	9.5		
11-12					8.5	8.5		9.0	12.0		4.5	4.5	7.5		4.0	11.0	9.5	1.0	5.5	1.0	8.5		
12-13		2.0			3.5	6.5						6.0	5.5	8.5	5.5			3.0	7.0	1.0	7.5		
13-14	2.5				7.5	4.5	7.5	6.0				7.5			0.5	2.0	2.0	4.5	0.0	1.0	6.5	1.5	
14-15					2.5	2.5		12.0				9.0		7.5	2.5	4.5	5.0	6.0	2.0	1.0	5.5		1.0
15-16			1.0		6.5	0.0				5.0	6.0	10.5	10.0		4.0	6.5	8.0	8.0	3.5	1.0	4.5		
16-17					1.5		7.5	8.5			6.5	4.5	12.0	8.0	6.5	5.5	9.0		1.0	5.5	1.5	3.5	
17-18	2.0	3.0			5.5	7.0				7.5			6.0		1.0	11.5	0.5	2.5	7.0	1.5			
18-19			3.0		0.5	5.0	5.0	5.5	4.5	8.5				5.0	2.5	0.5	3.5	4.5	0.0	1.5		1.0	
19-20					4.5	2.5	8.0	11.5	5.0	9.5		4.0		12.5	4.0	2.5	7.0	6.0	1.5	1.5			
20-21		0.5			9.0	0.5			5.5	10.5	6.0	5.5	10.5		6.0	5.0	10.0	7.5	3.5	1.5	11.0		
21-22	1.5			1.0	3.5		5.5	8.0	6.0	12.0	4.5	7.0	8.5	11.5	1.0	7.0		1.0	5.0	2.0	10.0		
22-23		4.5			8.0	7.5	8.5		7.0			8.5	6.5		2.5	9.5	2.5	2.5	7.0	2.0	9.0		
23-24			1.5		2.5	5.0			7.5			10.5		10.0	4.5	11.5	5.5	4.0	8.5	2.0	7.5	0.5	
24-25	3.5				7.0	3.0	6.0	11.0	8.0			12.0			6.0	1.0	8.5	6.0	1.5	2.0	6.5	3.0	0.5
25-26	1.0	2.0	12.5		1.5	1.0			9.0		6.5			9.0	1.0	3.0		7.5	3.5	2.0	5.5		
26-27			3.5		6.0			7.5	9.5		5.0		9.5		3.0	5.5	1.0	0.5	5.0	2.0	4.5		
27-28					0.5	7.5	6.5		10.0	6.0			7.0	8.0	4.5	7.5	4.0	2.5	6.5	2.5	3.5		

MAS RR Lyrae Ephemeris for February 2025

all times in U.T.

Page 2

	RV	RX	RZ	TY	UU	S	XX	XZ	DM	RW	XZ	RX	SV	BB	RX	SS	RR	GQ	VX	VZ	AR	DL	DY
	CET	CET	CET	CET	CET	COM	CYG	CYG	CYG	DRA	DRA	ERI	ERI	ERI	FOR	FOR	GEM	GEM	HER	HER	HER	HER	HER
MAX	10.3	11.0	11.2	11.4	11.5	10.9	11.4	9.1	11.2	11.0	9.6	9.2	9.6	10.9	11.1	9.4	10.7	13.6	9.9	10.7	10.6	11.0	10.2
MIN	11.2	11.7	12.4	11.9	12.4	12.1	12.5	10.5	12.7	12.0	10.3	10.1	10.2	11.9	12.5	10.6	11.9	14.6	10.4	12.0	11.6	12.4	10.6
RISE	3	3	2	3	3	3	1	3	2	2	3	3	5	2	2	2	2	2	2	2	2	1	1
0- 1			1.5	1.5		5.0	2.0			5.0	0.0		1.0				8.5	1.0	10.0		7.0		
1- 2			2.0	1.0		9.0	7.0				10.5	0.5		2.5			3.5	4.0	8.0	10.5	5.5		
2- 3	2.5		2.5	0.5			2.5	0.5		10.0	9.0	4.5	4.5			2.0	8.0	7.5		7.5		9.5	9.0
3- 4			3.0			3.5	7.5	10.0		7.5	8.0					2.0	3.0						
4- 5			3.5			7.5		8.5		4.5	7.0					1.5	7.5	0.5					
5- 6		0.0				11.5	8.5				6.0	3.0	1.0	2.0		1.5	2.5	4.0	10.5	9.5	11.0	8.5	
6- 7									10.0	4.5				5.5		1.0	7.5	7.5	8.0	7.0	9.5	12.5	9.5
7- 8	2.0					6.0	9.0			7.0	3.5		4.0			1.0	2.5				8.0		
8- 9						10.0				4.5	2.5	1.5				1.0	7.0	0.5			6.5		
9-10		0.5		3.0			9.5	0.5			1.5			1.5		0.5	2.0	4.0		9.0	5.0	11.5	
10-11				2.5	0.5	4.5		10.0	0.5	9.5	0.0		1.0	5.0	3.0	0.5	6.5	7.5	10.5				10.0
11-12				2.0		8.5	0.0	8.5		7.0	10.5	0.0				0.0	1.5		8.5				
12-13	2.0			1.0		12.5				4.0	9.5	4.5	4.0				6.5	0.5				10.5	
13-14		1.0		0.5			1.0				8.0			1.5	2.5		1.5	4.0		8.0	10.5		
14-15						7.0				9.0	7.0			5.0			6.0	7.0			9.5		10.0
15-16					11.0	1.5				6.5	6.0	3.0	0.5				1.0		11.0		8.0	9.5	7.5
16-17							0.5			3.5	5.0				2.0		5.5	0.5	8.5	10.0	6.5		
17-18	1.5	1.0				5.0	2.0	10.0			3.5		4.0	1.0			0.5	3.5		7.0	5.0		
18-19						9.5	7.0	8.5	0.0	9.0	2.5	1.0		4.5			5.5	7.0				8.5	10.5
19-20							2.5			6.0	1.5	5.5			2.0		0.5						8.0
20-21				3.5		3.5	7.5				0.5		0.5				5.0	0.0		9.0			
21-22				2.5		7.5					10.5			1.0			0.0	3.5	9.0		10.5		
22-23	1.0		0.5	2.0		12.0	8.0			8.5	9.5	4.0	4.0	4.5	1.5		4.5	7.0			9.0	12.0	
23-24			1.0	1.5				0.5		6.0	8.5						9.5				7.5		8.0
24-25			1.5	0.5		6.0	8.5	10.0			7.5						4.5			8.0	6.0		
25-26			2.0			10.5		8.5			6.0	2.5	0.5	0.5	1.5		9.0	3.5			4.5	11.0	
26-27			2.5				9.0			8.0	5.0			4.0			4.0	6.5	9.0				
27-28	1.0		3.0			4.5				5.5	4.0		4.0				8.5			10.0			8.5

	DY	DY	SZ	UU	DG	DH	GO	RR	SS	ST	TV	WW	AA	VY	U	SZ	SZ	SZ	RR	RZ	ST	AV	BH	
	HER	HER	HYA	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LEO	LEO	LMI	LEP	LYN	LYN	LYN	LYR	LYR	OPH	PEG	PEG	
MAX	10.2	10.2	10.6	10.7	11.6	11.4	11.6	10.0	10.5	10.8	11.5	11.0	11.3	13.6	9.8	9.1	9.1	9.1	7.1	10.0	11.3	9.9	10.0	
MIN	10.6	10.6	11.7	12.3	12.6	12.6	12.2	11.7	12.0	12.3	12.6	12.0	12.4	14.6	11.1	9.6	9.6	9.6	8.1	12.0	12.7	10.9	10.8	
RISE	1	1	2	2	3	2	3	2	2	2	2	3	2	2	2	1	1	1	2	2	3	2	3	
0- 1			10.5	4.5			1.5	7.0			6.5	6.0		10.5		0.0	3.0	6.0	11.0		10.5			
1- 2		8.0		5.5			8.0	5.0	6.5			11.0	5.0	11.5	1.5	2.0	5.0	8.0						
2- 3				6.5	6.5	10.0		2.5	12.5	11.0	7.0	1.5	9.5	0.0		4.0	7.0	1.0					1.5	
3- 4	10.0		3.0	8.0		9.5	6.0		3.5	10.0		6.0		1.5		6.0	0.5	3.0						
4- 5	7.5		4.5	9.0		9.0		9.0	9.5	9.0	7.5	11.0	4.5	3.0		8.0	2.5	5.5	10.5					
5- 6		8.5	6.5	10.0	6.5	8.5	3.5	6.5		8.0		1.5	9.5	4.0	3.5	1.5	4.5	7.5			9.5	1.0		
6- 7			8.0	11.0	1.0	8.0	10.0	4.5	6.5	6.5	8.0	6.5		5.5		3.5	6.5	0.5						
7- 8	10.5		10.0			7.5	1.5	2.0	12.5	5.5		11.5	4.5	6.5		5.5	8.5	2.5		8.5				
8- 9	8.0			1.0	7.0	7.0	8.0	10.5	4.0	4.5	8.5	2.0	9.5	8.0	1.0	7.5	2.0	4.5	9.5	9.0				
9-10		9.0		2.0	1.0	6.5		8.5	10.0	3.5		7.0		9.0	5.0	1.0	4.0	7.0	13.0	9.5	11.0			
10-11			2.5	3.0		6.0	6.0	6.0			9.0		4.5	10.5		3.0	6.0	0.0		10.5				
11-12			4.0	4.5	7.5	5.5		4.0	7.0			2.5	9.0	11.5		5.0	8.0	2.0		11.0			1.0	
12-13	8.0		6.0	5.5	1.5	5.0	3.5	1.5	13.0		9.5	7.5		0.0	2.5	7.0	1.5	4.0	9.0	11.5				
13-14		9.0	8.0	6.5		4.5	10.0	10.0	4.0	11.0			4.0	1.5		0.5	3.5	6.0	12.0	12.0				
14-15			9.5	8.0	8.0	4.0	1.5	8.0	10.0	9.5	10.0	2.5	9.0	2.5		2.5	5.5	8.5			9.5	0.5		
15-16				9.0	2.0	3.5	8.0	5.5		8.5		7.5		4.0	0.5	4.5	7.5	1.5						
16-17	8.5			10.0		3.0		3.0	7.0	7.5	10.5		4.0	5.0	4.5	6.5	1.0	3.5						
17-18		9.5	2.0	11.5	8.5	2.0	6.0	1.0		6.5		3.0	9.0	6.5		8.5	3.0	5.5	11.5					
18-19			4.0		2.5	1.5		9.5	4.5	5.5	10.5	8.0		7.5		2.0	5.0	7.5						
19-20			5.5	1.0		1.0	3.5	7.0	10.5	4.5			4.0	9.0	2.0	4.0	7.0	1.0						
20-21	9.0		7.5	2.0	8.5		10.0	5.0		3.5	11.0	3.5	8.5	10.0		6.0	0.0	3.0					0.0	
21-22		10.0	9.0	3.5	3.0		1.5	2.5	7.5		3.5	8.5		11.5		8.0	2.5	5.0	10.5					
22-23				4.5			8.0				11.5		3.5	0.0		1.5	4.5	7.0						
23-24				5.5	9.0			9.0	4.5		4.0	3.5	8.5	1.5	4.0	3.5	6.5	0.5			10.0			
24-25	9.0		1.5	6.5	3.0	10.5	6.0	6.5	10.5	10.5	12.0	8.5		2.5		5.5	8.5	2.5						
25-26		10.0	3.5	8.0		10.0		4.5		9.5	4.0		3.5	4.0		7.5	1.5	4.5	9.5					
26-27		7.5	5.0	9.0	9.5	9.0	3.5	2.0	7.5	8.5	12.5	4.0	8.5	5.0	1.5	1.0	4.0	6.5	13.0					
27-28			7.0	10.0	3.5	8.5	10.0	10.5		7.5	4.5	9.0		6.5		3.0	6.0	0.0					1.5	

all times in U.T.

	DF	RV	TU
	SER	UMA	UMA
MAX	11.4	10.1	9.2
MIN	13.0	11.2	10.2
RISE	2	3	3
0- 1	6.5	10.0	5.5
1- 2		8.5	8.5
2- 3		7.0	11.0
3- 4	8.0	5.5	
4- 5		4.0	3.5
5- 6		2.5	6.0
6- 7	9.5		9.0
7- 8	6.5	10.5	11.5
8- 9		9.0	
9-10		7.5	4.0
10-11	8.0	6.0	6.5
11-12		4.5	9.5
12-13		3.0	12.0
13-14	9.5	1.5	1.5
14-15	6.5	11.0	4.5
15-16		9.5	7.0
16-17		8.0	10.0
17-18	8.0	6.5	12.5
18-19		5.0	2.0
19-20		3.5	5.0
20-21	9.5	2.0	7.5
21-22	6.5		10.5
22-23		10.0	
23-24		8.5	2.5
24-25	8.0	7.0	5.0
25-26		5.5	8.0
26-27		4.0	10.5
27-28	9.5	2.5	