

MAS RR Lyrae Ephemeris for June 2015

all times in U.T.

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	SW	XX	AT	SW	TZ	YZ	AA	BO	BR	DN	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	UY	RW	TT
	AND	AND	AND	AQR	AQR	AQR	AQR	AQR	AQR	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CNC	CNC
MAX	9.3	10.3	10.8	10.5	11.6	12.1	11.4	11.6	10.8	10.7	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
MIN	10.8	11.6	11.5	12.1	12.4	12.9	13.0	12.6	11.9	11.5	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
RISE	2	3	3	1	3	2	2	3	2	3	2	2	2	3	2	2	3	2	1	2	3	2	3
0- 1			4.0								2.5	2.0	2.5	10.0	10.0	8.5	8.5	8.5	6.5		6.0	4.5	
1- 2	9.5	9.5	9.5		5.0	6.0	9.5	7.0				10.5	5.5		10.5	9.5	7.0	10.5	4.5		7.5		
2- 3	6.5			10.5	8.5	8.5				8.5			8.5	7.0		10.5	5.5		2.5	9.0	2.5		
3- 4			6.0	9.0		11.0		9.0					3.0				4.0				4.5		2.0
4- 5		7.0		7.0			10.5						6.0	4.0			2.5	2.0	9.5	7.5	6.0		
5- 6	9.0			5.0						4.5			9.0	9.5			8.5	3.5	7.5		7.5	3.0	
6- 7	6.0		8.0		8.5		6.5						3.5			2.5	7.0	5.0	5.5	6.5	3.0	5.0	
7- 8						7.5				10.5	3.5		6.5	6.5	2.0	3.5	5.5	7.0	3.0		4.5		
8- 9			4.5	10.0		10.0		10.5					9.5		3.0	5.0	4.0	8.5		5.5	6.0		4.0
9-10	8.5	8.5	10.0	8.0			7.5		9.5	8.0	2.5		3.5	3.0	3.5	6.0	2.5	10.0	10.0		7.5		
10-11	5.5			6.0	8.5			7.5	9.0				7.0	9.0	4.0	7.0	8.5		8.0	4.0	3.0		
11-12			6.5	4.0									10.0		5.0	8.0	7.0		6.0		4.5	3.5	
12-13	11.0	5.5				7.0	8.5	9.5	7.0				4.0	6.0	5.5	9.0	5.5	2.0	4.0	3.0	6.0	5.5	2.5
13-14	8.0					9.5							7.5		6.0	10.0	4.0	3.5	2.0		8.0		
14-15		10.0	8.5	9.5	8.5				9.5	4.5			10.5	2.5	6.5		2.5	5.0	10.5	2.0	3.0		
15-16				7.5			9.5						4.5	8.5	7.5		8.5	6.5	8.5	9.0	4.5		
16-17	10.5		5.0	5.5						3.5			8.0		8.0		7.0	8.0	6.5		6.5		
17-18	7.5	7.0	10.5			6.0							2.0	5.5	8.5	2.0	5.5	9.5	4.5	8.0	8.0	3.5	
18-19					8.5	8.5	10.5				2.5		5.0		9.5	3.0	4.0		2.5		3.0		
19-20			7.0	10.5				8.0					8.0	2.0	10.0	4.5	2.5			7.0	5.0		
20-21	10.0			8.5			6.5						2.5	8.0	10.5	5.5	8.5		9.0		6.5		
21-22	7.0			6.5				10.0	11.0	9.0			5.5				6.5	7.0	3.0	7.0	6.0	8.0	3.0
22-23		8.5	9.0	4.5	8.5				10.0			10.0	8.5	5.0			7.5	5.5	4.5	5.0		3.5	2.0
23-24						7.5	7.5		9.0				3.0	11.0			8.5	4.0	6.0	3.0	4.5	5.0	4.0
24-25	9.5		5.5			10.0			8.0				6.0				9.5	2.5	7.5		6.5		
25-26	6.5	6.0	11.0	10.0					7.5		4.0		9.0	7.5		11.0	8.5	9.0	10.0	3.5	2.0		
26-27				8.0	8.5		8.5	7.0		10.5		2.0	3.0		2.0		7.5	10.5	8.0		3.5		
27-28		10.0	7.5	6.0							3.0	10.5	6.5	4.5	3.0		6.0		5.5	2.5	5.0		
28-29	9.0					7.0		8.5		8.0			9.5	10.0	3.5		4.5		3.5		6.5	2.5	
29-30	6.0		3.5			9.5	9.5				2.0		3.5		4.0	2.5	3.0	2.5			2.0	4.5	

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	VZ	VZ	KV	SS	RV	RZ	VW	YZ	AN	RR	RU	RV	RX	RZ	UU	XX	XZ	DM	RW	XZ	SV	SS	RR
	CNC	CNC	CNC	CVN	CAP	CAP	CAP	CAP	CAP	CET	CET	CET	CET	CET	CET	CYG	CYG	CYG	DRA	DRA	ERI	FOR	GEM
MAX	7.2	7.2	11.9	11.2	10.2	12.5	12.6	11.0	12.0	9.3	10.8	10.3	11.0	11.2	11.5	11.4	9.1	11.2	11.0	9.6	9.6	9.4	10.7
MIN	7.9	7.9	13.0	12.5	11.6	13.5	13.5	11.6	13.0	10.3	12.1	11.2	11.7	12.4	12.4	12.5	10.5	12.7	12.0	10.3	10.2	10.6	11.9
RISE	1	1	2	2	2	3	2	3	5	2	3	3	3	2	3	1	3	2	2	3	5	2	2
0- 1		3.5			8.0		10.5	7.5	6.5							4.0	4.0	5.5	10.0	6.0			
1- 2				10.0	5.5	6.5	9.5	10.0								9.0	2.5		7.0	5.0			2.0
2- 3	2.5			9.0			8.0	5.5	10.0		10.0					4.5		7.5	4.5	3.5			
3- 4				8.0		6.5	6.5	8.0		8.5		11.0				9.5	10.5	4.0		2.5			
4- 5				7.0	9.0		5.0	10.0								5.0	9.0	10.0	9.5				
5- 6		3.0		6.0	6.5	6.5		6.0	6.5						8.5	10.0	7.5	6.0	7.0				
6- 7				5.0			10.0	8.0					8.5			5.5	5.5	2.5	4.0	10.5			
7- 8	2.5		2.0	4.0		7.0	8.5	10.5	9.5							10.5	4.0	8.5		9.5			
8- 9	4.0		2.0	3.0	9.5		7.5	6.0				10.5			9.0	6.0	2.5	4.5	9.0	8.5			
9-10			2.0	2.0	7.0	7.0	6.0	8.0		10.5	10.5									6.5	7.0	11.0	
10-11		3.0	2.0					10.5	6.0				9.0	10.0		6.5	10.5	7.0	3.5	6.0			
11-12			2.0			7.0	10.5	6.0						10.5	10.0	2.0	9.0	3.5		5.0			
12-13	2.0		2.5	10.5	10.5		9.5	8.5	9.5		9.0			11.0		7.0	7.5	9.5	9.0	4.0			
13-14	4.0		2.5	9.5	8.0	7.0	8.0	10.5				10.5				2.5	5.5	5.5	6.0	2.5			
14-15			2.5	8.5	5.5		6.5	6.5		10.0			9.0		10.5	7.5	4.0		3.5		11.0		
15-16		3.0	2.5	7.5		7.5	5.0	8.5	6.0							3.0	2.5	8.0					
16-17			2.5	6.0				11.0								8.0		4.0	8.5	11.0			
17-18	2.0		3.0	5.0	8.5	7.5	10.0	6.5	9.0							3.5	10.5	10.5	6.0	9.5			
18-19	3.5		3.0	4.0	6.0		8.5	9.0				10.0	9.5			9.0	9.0	6.5	3.0	8.5			4.0
19-20			3.0	3.0		7.5	7.0			9.5	10.0					4.0	7.5	2.5		7.5	11.0		
20-21		3.0	3.0	2.0			6.0	7.0	5.5							9.5	5.5	9.0	8.0	6.5			3.5
21-22			3.0		9.0	7.5		9.0								4.5	4.0	5.0	5.5	5.0			
22-23	2.0		3.5		6.5		10.5		9.0				10.0			10.0	2.5		2.5	4.0			3.5
23-24	3.5		3.5	10.5		8.0	9.5	7.0				9.5				5.5		7.5	10.5	3.0			
24-25			3.5	9.5			8.0	9.0		9.0						10.5	10.5	3.5	8.0	1.5	10.5		3.0
25-26		2.5	3.5	8.5	10.0	8.0	6.5		5.5						8.5	6.0	9.0	10.0	5.0			10.5	
26-27			3.5	7.5	7.5		5.0	7.0			10.5	10.5					7.0	6.0	2.5	11.0		10.5	2.5
27-28			4.0	6.5	5.0	8.0		9.5	9.0							6.5	5.5		10.5	10.0			
28-29	3.5		4.0	5.5			10.0	5.0							9.0	2.0	4.0	8.5	7.5	8.5			2.5
29-30			4.0	4.5	10.5	8.0	8.5	7.5		8.5	9.0					7.0	2.5	4.5	5.0	7.5	10.5		

	TW	VX	VZ	AR	DL	DY	DY	DY	LS	SZ	UU	DG	DH	RR	SS	ST	TV	WW	AA	SZ	SZ	SZ	RR
	HER	HER	HER	HER	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LEO	LEO	LYN	LYN	LYN	LYR
MAX	10.5	9.9	10.7	10.6	11.0	10.2	10.2	10.2	10.8	10.6	10.7	11.6	11.4	10.0	10.5	10.8	11.5	11.0	11.3	9.1	9.1	9.1	7.1
MIN	11.8	10.4	12.0	11.6	12.4	10.6	10.6	10.6	11.1	11.7	12.3	12.6	12.6	11.7	12.0	12.3	12.6	12.0	12.4	9.6	9.6	9.6	8.1
RISE	2	2	2	2	1	1	1	1	2	2	2	3	2	2	2	2	2	3	2	1	1	1	2
0- 1	6.5	7.5	8.0	8.5	9.5	8.0		4.5	3.5	2.0	4.5	2.0				7.0	2.5			5.5		2.5	3.5
1- 2		5.0	5.0	7.0		5.5	9.0	2.0	2.0						2.0	5.5		4.0			2.0	4.5	7.0
2- 3	6.0	3.0	2.5	5.5	4.0	3.0	6.5	10.0	5.5							4.5	3.0		4.5		4.0		10.0
3- 4			10.0	4.0	8.5		4.0	7.5	4.0			2.5		4.5		3.5				3.0	6.0		
4- 5	6.0	9.5	7.0	3.0		8.5		5.0	2.0					2.0	5.5	2.5	3.5	4.0		5.0		2.0	3.0
5- 6		7.5	4.5		3.0	6.0	9.5	2.5	5.5										4.0			4.0	6.0
6- 7	6.0	5.5			7.5	3.5	7.0	10.5	4.0			3.0				2.5		4.0			3.5	6.0	9.0
7- 8	11.0	3.0	9.0	9.5			4.5	8.0	2.0	2.0				6.0				4.5		2.5	5.5		
8- 9	6.0		6.5	8.5	2.0	9.0		5.5	5.5	3.5				4.0			4.5		4.0	4.5			2.0
9-10	11.0	10.0	3.5	7.0	6.5	6.5	10.0	2.5	4.0		2.5	3.5			5.5							3.5	5.0
10-11	6.0	7.5		5.5	10.5	3.5	7.0	11.0	2.0		3.5						5.0				3.0	5.5	8.5
11-12	11.0	5.5	8.5	4.0			4.5	8.0	5.5						3.0	6.5			4.0	2.0	5.0		
12-13	6.0	3.5	5.5	2.5	5.5	9.0	2.0	5.5	4.0					5.5		5.5	5.5			4.0			
13-14	11.0		2.5		9.5	6.5	10.0	3.0	2.0				3.0	3.5		4.5				6.0		3.0	4.5
14-15	6.0	10.0	10.0	11.0		4.0	7.5		5.5				2.5		6.0	3.5			3.5		2.5	5.0	7.5
15-16	10.5	8.0	7.5	9.5	4.5		5.0	8.5	4.0	3.0			2.0			2.5					4.5		11.0
16-17	6.0	6.0	4.5	8.0	8.5	9.5	2.5	6.0	2.0						3.0					3.5			
17-18	10.5	3.5		6.5		7.0	10.5	3.5	5.5					5.0					3.5	5.5		2.5	3.5
18-19	6.0		9.5	5.0	3.5	4.5	8.0		4.0					3.0								4.5	7.0
19-20	10.5	10.5	6.5	3.5	7.5		5.5	9.0	2.0						6.0						4.0		10.0
20-21	6.0	8.0	3.5	2.5		10.0	2.5	6.0	5.5		2.5								3.5	3.0	6.0		
21-22	10.5	6.0			2.5	7.0	11.0	3.5	4.0		3.5				3.5					5.0		2.0	3.0
22-23	6.0	4.0	8.5	10.5	6.5	4.5	8.0		2.0	3.0				4.5		6.5						4.0	6.0
23-24	10.5		5.5	9.5		2.0	5.5	9.0	5.5					2.0		5.5			3.0		3.0	6.0	9.0
24-25	5.5	10.5	2.5	8.0		10.0	3.0	6.5	4.0							4.5				2.5	5.5		
25-26	10.5	8.5	10.5	6.5	5.5	7.5		4.0	2.0							3.5				4.5			2.0
26-27	5.5	6.0	7.5	5.0	10.0	5.0	8.5		5.5					6.0	3.5	2.5			3.0			3.5	5.0
27-28	10.5	4.0	4.5	3.5		2.5	6.0	9.5	4.0					4.0				2.0			2.5	5.5	8.5
28-29	5.5	2.0	2.0	2.0	4.5	10.5	3.5	7.0	2.0											2.0	4.5		
29-30	10.5	10.5	9.5		9.0	8.0		4.0	5.5	2.5									3.0	4.0			

	RZ	ST	AV	BH	RU	DF	RV	TU
	LYR	OPH	PEG	PEG	SCL	SER	UMA	UMA
MAX	10.0	11.3	9.9	10.0	9.3	11.4	10.1	9.2
MIN	12.0	12.7	10.9	10.8	10.8	13.0	11.2	10.2
RISE	2	3	2	3	2	2	3	3
0- 1		9.5	8.5			5.5		
1- 2		7.5		6.5		2.5	10.5	
2- 3		5.0	7.5			10.0	8.5	3.0
3- 4	2.0	2.5				7.0	7.0	6.0
4- 5	2.5		6.5			4.0	5.5	
5- 6	3.0	8.5	10.5				4.0	
6- 7	3.5	6.0	5.5	9.5		8.5	2.5	
7- 8	4.0	4.0	9.5			5.5		3.5
8- 9	4.5		4.0	7.5		2.5	11.0	6.5
9-10	5.0	10.0	8.0		11.0	10.0	9.0	
10-11	5.5	7.5		6.0	10.5	7.5	7.5	
11-12	6.0	5.0	7.0		10.0	4.5	6.0	
12-13	6.5	2.5			10.0		4.5	4.0
13-14	7.5		6.0	10.5	9.5	9.0	3.0	6.5
14-15	8.0	9.0	10.0		9.0	6.0		
15-16	8.5	6.5	4.5	9.0	9.0	3.0		
16-17	9.0	4.0	9.0		8.5	10.5	9.5	
17-18	9.5		3.5	7.0	8.5	7.5	8.0	4.5
18-19	10.0	10.0	7.5			4.5	6.5	7.0
19-20	10.5	7.5		5.0			5.0	
20-21		5.5	6.5			9.0	3.5	
21-22		3.0	10.5			6.0	2.0	2.0
22-23			5.5	10.0		3.0		5.0
23-24		9.0	9.5			10.5	10.0	7.5
24-25		6.5	4.0	8.0		7.5	8.5	
25-26		4.0	8.5			4.5	7.0	
26-27	2.0	2.0		6.5			5.5	2.5
27-28	2.5	10.0	7.0			9.0	4.0	5.5
28-29	3.0	8.0				6.0	2.5	8.0
29-30	3.5	5.5	6.0			3.0		