

MAS RR Lyrae Ephemeris for September 2016

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	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	6.0	4.5		2.0	4.0	6.0	1.5				8.5	11.0	4.5					2.5	3.0		5.0			
1- 2	3.0		3.5		7.5	8.5	6.5	8.5	11.0	7.0		8.5		1.5	0.5		5.0	4.5	1.0		7.0		11.5	
2- 3	11.0	8.5	9.0	9.0				1.5	10.5		7.5	6.5	2.0		1.0		3.5	6.0			2.0	9.5		
3- 4	8.0	1.5		7.0	0.5		2.5	10.5	9.5	4.5	11.5	4.5	5.0		2.0		2.0				3.5	11.5		
4- 5	5.5		5.5	5.0	4.0	2.5	7.5	3.5	8.5		6.5			4.0	2.5					6.0		5.5		
5- 6	2.5	5.5	11.0	3.0	7.5	5.0			8.0	2.0	10.5	11.0	2.0		3.0	1.5				3.5	3.0	0.5	10.0	
6- 7	10.5		2.0	1.0		7.5	3.5	5.0	7.0	8.5	5.5	9.0	5.5	1.0	4.0	2.5	5.0		1.5		2.0		2.0	
7- 8	7.5	10.0	7.5		0.5	10.0	8.5		6.0		9.5	7.0			4.5	3.5	3.5	1.0		2.0	4.0			
8- 9	5.0	3.0		8.0	4.0			7.0	5.0	6.0		5.0	2.5		5.0	4.5	2.0	2.5			5.5	10.0		
9-10	2.0		4.0	6.5	7.5	2.0	4.5		4.5		8.5			3.5				4.0		1.0	0.5	12.0	9.0	
10-11	10.0	7.0	9.5	4.5		4.5	9.5	9.0	3.5	4.0		11.5						5.5	4.5		2.5		12.0	
11-12	7.5	0.5		2.5	0.5	7.0		2.0	2.5	10.0	7.5	9.5	3.0				5.0		2.5		4.0			
12-13	4.5	11.0	6.0		4.0	9.5	5.5		1.5	1.5	12.0	7.5		6.0			3.5				5.5			
13-14	1.5	4.5	11.5	9.5	7.5			4.0		8.0	6.5	5.5					2.0				1.0			
14-15	9.5		2.5	7.5		1.0	1.5		11.5		11.0		3.5	3.0							2.5	10.0	10.5	
15-16	7.0	8.5	8.0	5.5	0.5	3.5	6.5	6.0	10.5	5.5	5.5	12.0							5.0		4.0			
16-17	4.0	2.0		3.5	4.0	6.0			9.5		10.0	10.0	1.0			1.0	5.0	2.0	3.0		5.5			
17-18	1.5		4.5	1.5	7.5	8.5	2.5	7.5	9.0	3.0		8.0	4.0	5.5		2.0	3.5	3.5	1.0		1.0			
18-19	9.0	6.0	10.0				7.5		8.0	9.5	9.0	5.5				3.0	2.0	5.0			2.5		9.0	
19-20	6.5		1.0	9.0				9.5	7.0				1.5	2.5		4.0					4.0	8.5		
20-21	3.5	10.0	6.5	7.0	4.0	3.0	3.5	2.5	6.5	7.0	8.0		4.5		0.5				5.5	2.5	6.0	10.5		
21-22	1.0	3.5		5.0	7.5	5.5	9.0		5.5			10.5			1.0		5.0		3.5		1.0			
22-23	8.5		3.0	3.0		8.0		4.5	4.5	5.0	7.0	8.0	2.0	5.0	2.0		3.5		1.5	1.0	2.5			
23-24	6.0	7.5	8.5	1.0		10.5	4.5		3.5		11.0	6.0	5.0		2.5		2.0				4.5		11.0	
24-25	3.0	0.5			4.0		10.0	6.5	3.0	2.5	6.0	4.0		2.0	3.0			1.5			6.0			
25-26	11.0	11.5	5.0	8.0	7.5	2.0			2.0	9.0	10.0		2.0		4.0			3.0	6.0		1.0	9.0		
26-27	8.0	5.0	10.5	6.0		4.5	5.5	8.5	1.0			10.5	5.5		4.5		5.0	4.5	4.0		3.0	11.0		
27-28	5.5		1.5	4.0		7.0		1.0	11.5	6.5	9.0	8.5		4.5	5.0		3.5	6.0	2.0		4.5		9.5	
28-29	2.5	9.0	7.0	2.0	4.0	9.5	1.5	10.0	11.0			6.5	2.5			1.5	2.0				6.0			
29-30	10.5	2.0			7.0		6.5	3.0	10.0	4.0	8.0	4.5		1.5		2.5					1.5			

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	VZ	VZ	KV	SS	RV	RZ	VW	YZ	AN	RR	RU	RV	RX	RZ	UU	XX	XZ	DM	RW	XZ	RX	SV	BB
	CNC	CNC	CNC	CVN	CAP	CAP	CAP	CAP	CAP	CET	CET	CET	CET	CET	CET	CYG	CYG	CYG	DRA	DRA	ERI	ERI	ERI
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	9.2	9.6	10.9
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	10.1	10.2	11.9
RISE	1	1	2	2	2	3	2	3	5	2	3	3	3	2	3	1	3	2	2	3	3	5	2
0- 1			9.0			0.5	7.0	2.0	2.0				10.5	5.0	2.0	4.0	8.5	7.0	9.5	3.5		12.0	
1- 2	10.0		9.0		6.5	5.5	5.5	4.5			3.0	4.0		5.5	7.0	9.0	7.0	3.0	6.5	2.5		5.0	9.5
2- 3	12.0		9.5		4.0	0.5	4.0	6.5	5.5	4.0	7.0	10.0	3.5	6.0		4.5	5.5	9.5	4.0	1.0	9.0		
3- 4		9.5	9.5		1.5	5.5	2.5	2.5		6.5	11.5		7.0	6.5	3.0	9.5	4.0	5.5	1.0	11.5		8.5	
4- 5		11.0	9.5			1.0	1.5	4.5		9.0		7.0	10.5	7.0	8.0	5.0	2.5	1.5	9.0	10.5			
5- 6			9.5	4.5	7.0	5.5	7.5	7.0	2.0	11.5	5.5			7.5		10.0	0.5	8.0	6.5	9.0	7.5	12.0	9.5
6- 7	10.0		9.5	3.5	4.5	1.0	6.0	2.5			9.5	3.5	4.0	8.0	3.5	5.5	10.5	4.0	3.5	8.0	11.5	5.0	
7- 8	11.5		10.0	2.5	2.0	6.0	4.5	4.5	5.0	3.5		9.5	7.5	8.5	8.5	1.0	8.5	10.5	1.0	7.0			
8- 9		9.0	10.0	1.5		1.0	3.5	7.0		6.0	4.0		11.0	9.0		6.0	7.0	6.5	9.0	6.0		8.5	
9-10		11.0	10.0	0.5	8.0	6.0	2.0	2.5		8.5	8.0	6.5		9.5	4.5	1.5	5.5	2.5	6.0	4.5	10.0		9.0
10-11			10.0		5.5	1.0	0.5	5.0	1.5	11.0			4.5	10.0	9.5	6.5	4.0	9.0	3.5	3.5		12.0	
11-12	10.0		10.0		3.0	6.0	7.0	0.5					8.0	10.5		2.0	2.5	5.0	0.5	2.5		5.0	
12-13	11.5		10.5			1.5	5.5	3.0	5.0	3.0	6.5	9.5	11.5	11.0	5.0	7.0	0.5	1.0	8.5	1.5	8.5		
13-14		9.0	10.5		8.5	6.0	4.0	5.0		5.5	10.5			11.5	10.0	2.5	10.5	7.5	5.5	11.5		8.5	9.0
14-15		10.5	10.5		6.0	1.5	2.5	1.0		8.0		6.0	5.0			7.5	8.5	3.5	3.0	10.5			
15-16			10.5		3.5	6.5	1.5	3.0	1.5	10.5	5.0		8.5		6.0	3.0	7.0	10.0	11.0	9.5	7.0	11.5	
16-17	10.0		10.5	5.0	1.0	1.5	7.5	5.5			9.0		12.0		11.0	8.5	5.5	6.0	8.0	8.0	11.0	5.0	
17-18	11.5		11.0	4.0		6.5	6.0	1.0	5.0	2.5		9.0				3.5	4.0	2.0	5.5	7.0		8.5	
18-19		9.0	11.0	2.5	7.0	1.5	4.5	3.5		5.0	3.0		5.0		6.5	9.0	2.5	8.5	2.5	6.0		8.0	
19-20		10.5	11.0	1.5	4.5	6.5	3.5	5.5		7.5	7.5	6.0	8.5		11.5	4.0	0.5	4.5	10.5	5.0	9.5		
20-21			11.0	0.5	2.0	2.0	2.0	1.0	1.5	10.0	11.5	12.0			2.0	9.5	10.5	0.5	8.0	3.5		11.5	
21-22	9.5		11.0			6.5	0.5	3.5							7.0	5.0	8.5	7.0	5.0	2.5		5.0	8.5
22-23	11.5		11.5		7.5	2.0	7.0	5.5	4.5		5.5	8.5	5.5	4.0		10.0	7.0	3.0	2.5	1.5	8.0		12.0
23-24			11.5		5.0	7.0	5.5	1.5		4.5	10.0		9.0	4.5	3.0	5.5	5.5	9.5	10.0	12.0		8.0	
24-25		10.5	11.5		2.5	2.0	4.0	3.5		7.0		5.5		5.0	8.0	1.0	4.0	5.5	7.5	10.5			
25-26			11.5			7.0	2.5	6.0	1.0	9.5	4.0	11.5	2.5	5.5		6.0	2.0	1.5	5.0	9.5	6.5	11.5	8.0
26-27	9.5		11.5		8.5	2.0	1.5	1.5		12.0	8.0		6.0	6.0	3.5	1.5	0.5	8.0	2.0	8.5	11.0	4.5	11.5
27-28	11.0		12.0	5.0	6.0	7.0	7.5	4.0	4.5			8.5	9.5	6.5	8.5	6.5	10.0	4.0	10.0	7.5			
28-29			12.0	4.0	3.0	2.5	6.0	6.0		3.5					7.0		2.0	8.5	10.0	7.0	6.0		8.0
29-30		10.5	12.0	3.0	0.5	7.0	4.5	2.0		6.5	6.5	5.5	3.0	7.5	4.5	7.0	7.0	6.5	4.5	5.0	9.5		8.0

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	RX	SS	RR	GQ	TW	VX	VZ	AR	DL	DY	DY	DY	LS	SZ	UU	DG	DH	RR	ST	WW	AA	VY	U
	FOR	FOR	GEM	GEM	HER	HER	HER	HER	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LMI	LEP
MAX	11.1	9.4	10.7	13.6	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	10.8	11.0	11.3	13.6	9.8
MIN	12.5	10.6	11.9	14.6	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	12.3	12.0	12.4	14.6	11.1
RISE	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	3	2	2	2	3	2	2	2
0- 1		11.0	8.5		5.0		6.5	3.5				3.0	2.0										
1- 2		10.5		9.5			4.0	2.0		4.0			5.5			10.0							
2- 3	9.5	10.5	8.5		5.0	5.0	1.0	0.5	2.0	1.5	5.0		3.5	12.0									9.5
3- 4		10.5				3.0			6.5		2.5		2.0					11.5					
4- 5		10.0	8.0		5.0	1.0	6.0					3.5	5.5			10.5			12.0				
5- 6	9.0	10.0		9.5			3.0	7.5	1.0	4.5		0.5	4.0				12.0					8.5	7.0
6- 7		9.5	7.5		4.5			6.0	5.5	1.5	5.5		2.0					11.5				9.5	11.0
7- 8		9.5				5.5	8.0	4.5			2.5		5.5			11.0	11.0					11.0	
8- 9	8.5	9.0	7.5		4.5	3.5	5.0	3.5				3.5	4.0		10.5		10.5	10.5					
9-10		9.0	12.0	9.5		1.0	2.0	2.0	4.5	4.5		1.0	2.0	11.5	11.5								9.0
10-11		8.5	7.0		4.5					2.0	5.5		5.5				11.5						
11-12	8.5	8.5	11.5				7.0				3.0		4.0										
12-13		8.5	6.5		4.5	5.5	4.0		3.5			4.0	2.0										
13-14		8.0	11.5	9.0		3.5	1.0	7.5		5.0		1.5	5.5			12.0		10.0					10.5
14-15	8.0	8.0	6.5		4.5	1.5		6.0		2.5			4.0										
15-16		7.5	11.0				6.0	4.5	2.5		3.5		2.0									8.5	
16-17		7.5			4.5		3.0	3.0			0.5	4.5	5.5	11.0								9.5	8.5
17-18	7.5	7.0	10.5	9.0		6.0		1.5		5.5		1.5	4.0					12.0				11.0	
18-19		7.0			4.5	3.5	8.0		1.5	2.5			2.0					9.5					
19-20		6.5	10.5			1.5	5.0		6.0		3.5		5.5		10.5								
20-21	7.5	6.5			4.5		2.5				1.0	4.5	4.0		11.5								10.0
21-22		6.5	10.0	9.0				7.0		5.5		2.0	2.0										
22-23		6.0			4.5	6.0	7.0	5.5	5.0	3.0			5.5				11.5		10.0	12.0			
23-24	7.0	6.0	9.5			4.0	4.0	4.0			4.0		4.0	11.0									8.0
24-25	11.5	5.5			4.5	2.0	1.5	3.0			1.5	5.0	2.0										11.5
25-26		5.5	9.5	8.5				1.5	4.0	6.0		2.5	5.5						10.5	12.0	8.0		
26-27	6.5	5.0			4.0		6.0			3.5			4.0									9.5	
27-28	11.5	5.0	9.0				3.5			0.5	4.5		2.0					10.5				10.5	9.5
28-29		5.0			4.0	4.0		8.5	3.0		1.5	5.0	5.5				11.5		11.0			12.0	
29-30	6.5	4.5	8.5	8.5		2.0	8.0	7.0				2.5	4.0				11.0					0.5	

	SZ	SZ	SZ	RR	RZ	ST	AV	BH	RU	DF	RV	TU
	LYN	LYN	LYN	LYR	LYR	OPH	PEG	PEG	SCL	SER	UMA	UMA
MAX	9.1	9.1	9.1	7.1	10.0	11.3	9.9	10.0	9.3	11.4	10.1	9.2
MIN	9.6	9.6	9.6	8.1	12.0	12.7	10.9	10.8	10.8	13.0	11.2	10.2
RISE	1	1	1	2	2	3	2	3	2	2	3	3
0- 1	9.5		6.5	3.5	2.0		6.5	7.0	9.5	4.0	6.0	
1- 2	11.5		8.5	7.0	3.0		1.5		9.5	1.0	4.5	
2- 3		7.5	10.5	10.0	3.5	5.0	5.5	5.0	9.0		3.0	
3- 4	6.5	9.5			4.0	3.0	9.5	12.0	8.5		1.5	1.5
4- 5	8.5	11.5	6.0	3.0	4.5		4.5	3.5	8.5	2.5	11.0	
5- 6	11.0		8.0	6.0	5.0		8.5	10.0	8.0		9.5	
6- 7		7.0	10.0	9.5	5.5		3.5	1.5	8.0		8.0	
7- 8	6.0	9.0	12.0		6.0	4.0	7.5	8.5	7.5	4.0	6.5	
8- 9	8.0	11.0		2.0	6.5	1.5	2.0		7.0	1.0	5.0	
9-10	10.0		7.5	5.5	7.0		6.0	6.5	7.0		3.5	
10-11		6.5	9.5	8.5	7.5		1.0		6.5		2.0	
11-12	5.5	8.5	11.5		8.0	5.5	5.0	4.5	6.0	2.5	0.5	
12-13	7.5	10.5		1.5	8.5	3.0	9.0	11.5	6.0		10.0	
13-14	9.5		7.0	4.5	9.0	0.5	4.0	2.5	5.5		8.5	
14-15	11.5	6.0	9.0	7.5			8.0	9.5	5.0	4.5	7.0	
15-16		8.0	11.0	11.0			3.0	1.0	5.0	1.5	5.5	
16-17	7.0	10.0		0.5		4.0	7.0	7.5	4.5		4.0	11.0
17-18	9.0		6.5	3.5		2.0	1.5		4.5		2.5	
18-19	11.0		8.5	7.0			5.5	6.0	4.0	3.0	1.0	
19-20		7.5	10.5	10.0			10.0		3.5		10.5	
20-21	6.5	9.5			0.5	5.5	4.5	4.0	3.5		9.0	
21-22	8.5	11.5	5.5	3.0	1.5	3.0	8.5	10.5	3.0	4.5	7.5	11.5
22-23	10.5		8.0	6.0	2.0	1.0	3.5	2.0	2.5	1.5	6.0	0.5
23-24		7.0	10.0	9.5	2.5		7.5	9.0	2.5		4.5	
24-25	6.0	9.0	12.0		3.0		2.5				3.0	
25-26	8.0	11.0		2.0	3.5	4.5	6.5	7.0		3.0	1.5	
26-27	10.0		7.0	5.5	4.0	2.0	1.0				11.0	12.0
27-28		6.5	9.5	8.5	4.5		5.0	5.0			9.5	1.0
28-29		8.5	11.5		5.0		9.5	12.0		4.5	8.0	
29-30	7.5	10.5		1.5	5.5	5.5	4.0	3.5		1.5	6.5	