

MAS RR Lyrae Ephemeris for March 2016

all times in U.T.

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	SW	XX	AT	SW	TZ	YZ	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	UY	RW	TT	VZ	VZ	KV	SS
	AND	AND	AND	AQR	AQR	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CNC	CNC	CNC	CNC	CNC	CVN
MAX	9.3	10.3	10.8	10.5	11.6	12.1	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
MIN	10.8	11.6	11.5	12.1	12.4	12.9	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
RISE	2	3	3	1	3	2	2	2	2	3	2	2	3	2	1	2	3	2	3	1	1	2	2
0- 1			1.5				6.5	4.5	10.0	5.5	3.5	7.5	4.0	11.5	10.5	9.0	5.5	8.0	2.5	7.0	2.5	3.0	4.5
1- 2							1.0	2.5	4.5	11.5	4.0	8.5	2.5		8.5		0.5	10.5	5.5	8.5	4.0	3.0	3.5
2- 3	1.0	1.0					5.5		7.5	2.5	4.5	9.5	1.0	2.0	6.5	8.0	2.5		8.5	1.5	6.0	3.0	2.5
3- 4		12.0					9.5		10.5	8.5	5.5	11.0	7.0	3.5	4.5		4.0	2.0		3.5	7.5	3.0	1.0
4- 5				11.5			4.5	7.0	4.5		6.0	12.0	5.5	5.0	2.5	7.0	5.5	4.0	1.0	5.0	0.5	3.0	11.5
5- 6							8.5	5.0	8.0	5.0	6.5		4.0	6.5	11.0		1.0	6.5	4.0	6.5	2.5	3.5	10.5
6- 7							3.5	3.0	2.0	11.0	7.5		2.5	8.0	9.0	6.0	2.5	8.5	7.5	8.5	4.0	3.5	9.5
7- 8		2.5	11.5				7.5	0.5	5.0		8.0	2.5	1.0	9.5	7.0		4.0	11.0		1.5	5.5	3.5	8.5
8- 9			2.0				2.5		8.5	7.5	8.5	4.0	7.0	11.0	5.0	4.5	5.5			3.0	7.5	3.5	7.5
9-10	2.5						6.5	7.5	2.5		9.0	5.0	5.5		3.0	12.0	1.0	2.5	3.0	5.0	0.5	3.5	6.5
10-11				11.0			1.5	5.5	5.5	4.5	10.0	6.0	4.0	1.5	12.0	3.5	2.5	4.5	6.0	6.5	2.0	4.0	5.5
11-12					12.0		5.5	3.0	9.0	10.5	10.5	7.0	2.5	3.0	10.0	11.0	4.0	7.0	9.0	8.0	4.0	4.0	4.5
12-13		4.0	10.0				0.5	1.0	3.0		11.0	8.0	1.0	4.5	7.5	2.5	6.0	9.0		1.5	5.5	4.0	3.5
13-14	2.0		0.5				4.5		6.0	7.0	12.0	9.0	7.0	6.0	5.5	9.5	1.0	11.5	1.5	3.0	7.5	4.0	2.5
14-15							9.0	8.0	9.0		12.5	10.5	5.5	7.5	3.5		2.5	0.5	4.5	4.5	9.0	4.0	1.5
15-16		1.5	12.0	12.5			3.5	5.5	3.5	4.0		11.5	4.0	9.0	12.5	8.5	4.5	2.5	7.5	6.5	2.0	4.5	12.0
16-17		12.0	2.5	10.5			8.0	3.5	6.5	10.0	1.5	12.5	2.5	11.0	10.5		6.0	5.0		8.0	4.0	4.5	11.0
17-18	1.5						2.5	1.5	9.5		2.0		1.0	12.5	8.5	7.5	1.0	7.5		1.0	5.5	4.5	10.0
18-19							7.0		4.0	6.5	3.0	2.0	7.0	1.0	6.5		3.0	9.5	3.0	3.0	7.0	4.5	8.5
19-20							1.5		7.0		3.5	3.5	5.5	2.5	4.0	6.0	4.5	12.0	6.5	4.5	9.0	4.5	7.5
20-21		2.5	10.5				6.0	6.0	10.0	3.5	4.0	4.5	4.0	4.0	2.0		6.0	1.0	9.5	6.0	2.0	5.0	6.5
21-22	1.5		1.0	11.5			0.5	4.0	4.5	9.5	4.5	5.5	2.5	5.5	11.0	5.0	1.5	3.0		8.0	3.5	5.0	5.5
22-23							5.0	2.0	7.5		5.5	6.5	1.0	7.5	9.0	12.5	3.0	5.5	2.0	1.0	5.5	5.0	4.5
23-24			12.5				9.0		10.5	6.0	6.0	7.5	7.0	9.0	7.0	4.0	4.5	7.5	5.0	2.5	7.0	5.0	3.5
24-25			3.0				4.0		4.5	12.0	6.5	8.5	5.5	10.5	5.0	11.0	6.0	10.0	8.0	4.5	8.5	5.0	2.5
25-26	1.0	4.0					8.0	6.5	8.0	3.0	7.5	10.0	4.0	12.0	2.5	3.0	1.5			6.0	2.0	5.5	1.5
26-27					12.5		3.0	4.5	2.0	9.0	8.0	11.0	2.5		11.5	10.0	3.0	1.5	0.5	8.0	3.5	5.5	0.5
27-28				11.0		12.0	7.0	2.5	5.0		8.5	12.0	1.0	2.5	9.5		4.5	3.5	3.5	1.0	5.0	5.5	11.0
28-29		1.5	11.0				2.0		8.5	5.5	9.5		7.0	4.0	7.5	9.0	6.5	6.0	6.5	2.5	7.0	5.5	10.0
29-30		12.0	1.5				6.0		2.5	11.5	10.0		5.5	5.5	5.5		1.5	8.0	9.5	4.5	8.5	5.5	9.0
30-31					12.5		1.0	7.0	5.5	2.5	10.5	3.0	4.0	7.0	3.5	8.0	3.0	10.5		6.0	1.5	6.0	8.0

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	RV	RZ	VW	YZ	AN	RR	RU	RV	RZ	XX	XZ	DM	RW	XZ	RX	SV	BB	RX	SS	RR	GQ	TW	VX
	CAP	CAP	CAP	CAP	CAP	CET	CET	CET	CET	CYG	CYG	CYG	DRA	DRA	ERI	ERI	ERI	FOR	FOR	GEM	GEM	HER	HER
MAX	10.2	12.5	12.6	11.0	12.0	9.3	10.8	10.3	11.2	11.4	9.1	11.2	11.0	9.6	9.2	9.6	10.9	11.1	9.4	10.7	13.6	10.5	9.9
MIN	11.6	13.5	13.5	11.6	13.0	10.3	12.1	11.2	12.4	12.5	10.5	12.7	12.0	10.3	10.1	10.2	11.9	12.5	10.6	11.9	14.6	11.8	10.4
RISE	2	3	2	3	5	2	3	3	2	1	3	2	2	3	3	5	2	2	2	2	2	2	2
0- 1										1.5	1.5	9.5	3.5	5.0			4.5	0.5		0.5		9.5	10.5
1- 2							1.0			7.0	11.0		0.5	4.0		1.0				5.0	2.5		8.0
2- 3				12.5						2.0	9.5	12.0	8.5	3.0						9.5	6.0	9.0	6.0
3- 4	12.0									7.5	8.0		5.5	1.5	3.5		1.0			4.5			
4- 5			12.5							3.0	6.0		3.0	0.5			4.0			9.5		9.0	
5- 6			11.0	12.5						8.0	4.5	10.5	11.0	11.0						4.5	2.5		10.5
6- 7					12.5					3.5	3.0		8.0	9.5	2.0	1.0				9.0	6.0	9.0	8.5
7- 8	12.5								0.5	8.5	1.5		5.5	8.5			0.5			4.0			6.0
8- 9						2.0				1.0	4.0	11.0	9.0	2.5	7.5		4.0			8.5		9.0	
9-10										1.5	9.0	9.5		10.5	6.5	0.5				3.5	2.0		
10-11			12.0							2.0	4.5	7.5	11.5	8.0	5.0					8.5	5.5	9.0	10.5
11-12				12.5						2.5	9.5	6.0		5.0	4.0		0.5			1.5	3.5		8.5
12-13	10.5									5.0	4.5		2.5	3.0			3.5			1.0	8.0		9.0
13-14						1.5				10.0	3.0	10.0	10.0	2.0	3.5					1.0	3.0	2.0	
14-15										5.5	1.5		7.5	0.5					0.5	7.5	5.5	9.0	
15-16			12.5							1.0	11.0	12.0	4.5	11.0						3.0			11.0
16-17	11.5		11.0	11.0	12.0					6.0	9.5	8.5	2.0	10.0	1.5	0.5	3.5			7.5		9.0	9.0
17-18										1.5	7.5		10.0	8.5						2.5	2.0		6.5
18-19						1.0	1.0	2.0		6.5	6.0	10.5	7.0	7.5						7.0	5.5	9.0	4.5
19-20				11.0						2.0	4.5		4.5	6.5						2.0	8.5		
20-21	12.0									7.0	3.0		1.5	5.5	4.5		3.0			6.5		9.0	11.0
21-22			12.0		12.0					2.5	1.5	9.5	9.5	4.0		0.5				2.0	2.0		9.0
22-23				11.5						7.5	11.0		7.0	3.0						6.5	5.0	9.0	7.0
23-24						0.5		2.0		3.0	9.5	11.5	4.0	2.0	3.0					1.5	8.5		4.5
24-25		10.0								8.5	7.5		1.5	1.0			3.0			6.0		8.5	
25-26				11.5						3.5	6.0		9.0	11.0						1.0	1.5		11.5
26-27		10.5	12.5		11.5					9.0	4.5	10.0	6.5	10.0	1.5	0.5				5.5	5.0	8.5	9.0
27-28			11.0							4.5	3.0		4.0	9.0						1.0	8.5		7.0
28-29		10.5		12.0				1.5		9.5	1.5		1.0	8.0			2.5	2.5		5.5		8.5	5.0
29-30	11.0									5.0	11.0	8.5	9.0	6.5						0.5	1.5		
30-31		10.5								10.0	9.5		6.0	5.5	4.0					5.0	5.0	8.5	11.5

	VZ	AR	DL	DY	DY	DY	LS	SZ	UU	DG	DH	RR	SS	ST	TV	WW	AA	VY	U	SZ	SZ	SZ	RR
	HER	HER	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LEO	LEO	LMI	LEP	LYN	LYN	LYN	LYR
MAX	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	13.6	9.8	9.1	9.1	9.1	7.1
MIN	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	14.6	11.1	9.6	9.6	9.6	8.1
RISE	2	2	1	1	1	1	2	2	2	3	2	2	2	2	2	3	2	2	2	1	1	1	2
0- 1	5.5	9.0	7.5		6.5	10.0	8.5	2.0	4.0		6.0	4.0	4.0	4.0		6.0		11.0		8.0	2.0	5.0	12.5
1- 2		7.5	12.0	11.0		7.5	6.5	3.5	5.5	9.5	5.5	2.0	10.5	3.0	7.5		4.0	12.5		1.5	4.0	7.0	
2- 3	10.0	6.0		8.5	12.0	5.0	5.0	5.5	6.5	3.5	5.0	10.5	1.5	2.0		1.5	8.5	1.0	1.5	3.5	6.0	9.0	
3- 4	7.5	5.0	6.5	6.0	9.5		8.5	7.0	7.5		4.5	8.0	7.5	1.0	8.0	6.5		2.0		5.5	8.0	2.5	8.5
4- 5	4.5	3.5	11.0		7.0	10.5	6.5	9.0	9.0		4.0	6.0		11.5			3.5	3.5		7.5	1.5	4.5	11.5
5- 6	12.0	2.0		11.5		7.5	5.0		10.0	4.0	3.5	3.5	4.5	10.0	8.5	2.0	8.5	4.5		0.5	3.5	6.5	
6- 7	9.5	11.5	5.5	8.5	12.5	5.0	8.5				3.0	1.5	10.5	9.0	0.5	6.5		6.0	3.0	3.0	5.5	8.5	
7- 8	6.5	10.5	10.0	6.0	9.5		6.5	1.5			2.5	10.0	1.5	8.0	9.0		3.5	7.0		5.0	7.5	2.0	7.5
8- 9		9.0			7.0	10.5	5.0	3.5	1.0	4.0	2.0	7.5	7.5	7.0	1.0	2.0	8.5	8.5		7.0	1.0	4.0	11.0
9-10	11.0	7.5		11.5		8.0	8.5	5.0	2.0		1.5	5.5		6.0	9.0	7.0		10.0	1.0	9.0	3.0	6.0	
10-11	8.5	6.0	9.0	9.0		5.5	6.5	7.0	3.0		1.0	3.0	4.5	5.0	1.5		3.5	11.0		2.0	5.0	8.0	
11-12	5.5	4.5		6.5	10.0		5.0	8.5	4.5	4.5		1.0	11.0	4.0	9.5	2.5	8.0	12.5		4.5	7.0	1.5	7.0
12-13		3.0			7.5	11.0	8.5		5.5		9.5	2.0	3.0	2.0	7.5			1.0		6.5	0.5	3.5	10.0
13-14	10.5	1.5	8.0	12.0	5.0	8.5	6.5		6.5		7.0	8.0	2.0	10.0			3.5	2.0	2.5	8.5	2.5	5.5	
14-15	7.5	11.5	12.5	9.5		6.0	5.0	1.0	7.5	5.0		5.0		0.5	2.5	3.0	8.0	3.5		1.5	4.5	7.5	
15-16	4.5	10.0		7.0	10.5		8.5	3.0	9.0			2.5	5.0	11.0	10.5	7.5		4.5		3.5	6.5	1.0	6.0
16-17	12.5	8.5	7.0		7.5	11.5	7.0	4.5	10.0		9.5	11.0	11.0	10.0	2.5		3.0	6.0	0.5	6.0	8.5	3.0	9.5
17-18	9.5	7.0	11.5	12.5	5.0	8.5	5.0	6.5		5.5	9.0	9.0	2.0	9.0	11.0	3.0	8.0	7.0	4.5	8.0	2.0	5.0	12.5
18-19	6.5	5.5		9.5		6.0	8.5	8.0			8.5	6.5	8.0	8.0	3.0	8.0		8.5		1.0	4.0	7.0	
19-20		4.5	6.0	7.0	10.5		7.0		1.0		8.0	4.0		7.0	11.5		3.0	9.5		3.0	6.0	9.0	5.5
20-21	11.5	3.0	10.5		8.0	11.5	5.0		2.0	6.0	7.0	2.0	5.0	6.0	3.5	3.5	7.5	11.0	2.0	5.0	8.0	2.5	8.5
21-22	8.5	1.5			5.5	9.0	8.5	0.5	3.0		6.5	10.5	11.5	5.0		8.5	12.5	12.0		7.5	1.5	4.5	11.5
22-23	5.5	11.5		10.0		6.5	7.0	2.5	4.5		6.0	8.0	2.5	3.5	4.0		3.0	1.0		0.5	3.5	6.5	
23-24		10.0	9.5	7.5	11.0		5.0	4.5	5.5	6.5	5.5	6.0	8.5	2.5		4.0	7.5	2.0		2.5	5.5	8.5	
24-25	10.5	8.5		5.0	8.5	12.0	8.5	6.0	6.5		5.0	3.5		1.5	4.5	8.5	12.0	3.5	4.0	4.5	7.5	2.0	7.5
25-26	7.5	7.0			6.0	9.5	7.0	8.0	7.5		4.5	1.5	5.5	0.5			2.5	4.5		6.5	1.0	4.0	11.0
26-27	5.0	5.5	8.5	10.5		6.5	5.0		9.0	6.5	4.0	10.0	11.5	11.0	5.0	4.0	7.5	6.0		9.0	3.0	6.0	
27-28		4.0		7.5	11.5		8.5		10.0	1.0	3.5	7.5	2.5	10.0		9.0	12.0	7.0	1.5	2.0	5.0	8.0	
28-29	9.5	2.5		5.0	8.5	12.0	7.0				3.0	5.5	8.5	9.0	5.5		2.5	8.5		4.0	7.0	1.5	7.0
29-30	7.0	1.0	7.5		6.0	9.5	5.0	2.0		7.0	2.5	3.0		8.0		4.5	7.0	9.5		6.0	9.0	3.5	10.0
30-31	4.0	11.0	11.5	10.5		7.0	8.5	4.0	1.0	1.0	2.0	1.0	5.5	7.0	6.0	9.5	12.0	11.0		8.0	2.5	5.5	

	RZ	ST	AV	BH	KZ	DF	RV	TU
	LYR	OPH	PEG	PEG	PUP	SER	UMA	UMA
MAX	10.0	11.3	9.9	10.0	11.3	11.4	10.1	9.2
MIN	12.0	12.7	10.9	10.8	12.8	13.0	11.2	10.2
RISE	2	3	2	3	3	2	3	3

0- 1			10.0		7.5	7.0	7.5	6.0
1- 2						4.0	6.0	9.0
2- 3		11.5				11.5	4.5	11.5
3- 4		9.0				8.5	3.0	1.0
4- 5		6.5				5.5	1.0	4.0
5- 6			11.5	11.0			11.0	6.5
6- 7						10.0	9.5	9.5
7- 8		10.0	10.5			7.0	8.0	12.0
8- 9		8.0		0.5		4.0	6.5	1.5
9-10	6.0					11.5	5.0	4.5
10-11	6.5					8.5	3.5	7.0
11-12	7.0	11.5				5.5	2.0	10.0
12-13	7.5	9.0	12.5	12.0			11.5	
13-14	8.0	6.5				10.5	10.0	2.0
14-15	8.5		11.0			7.5	8.5	5.0
15-16	9.0					4.5	7.0	7.5
16-17	10.0	10.5	10.0			12.0	5.5	10.5
17-18	10.5	8.0				9.0	4.0	
18-19	11.0					6.0	2.5	2.5
19-20	11.5						0.5	5.5
20-21	12.0	11.5				10.5	10.5	8.0
21-22	12.5	9.5	12.0	11.5		7.5	9.0	11.0
22-23		7.0				4.5	7.5	
23-24			10.5			12.0	6.0	3.0
24-25						9.0	4.5	5.5
25-26		10.5	9.5			6.0	3.0	8.5
26-27		8.0					1.0	11.0
27-28						10.5	11.0	0.5
28-29			12.5			7.5	9.5	3.5
29-30		12.0				4.5	8.0	6.0
30-31		9.5	11.5	11.0		12.0	6.5	9.0