

MAS RR Lyrae Ephemeris for February 2016

all times in U.T.

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	SW	XX	AT	SW	BO	BR	DN	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	UY	RW	TT	VZ	VZ	KV	
	AND	AND	AND	AQR	AQR	AQR	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CNC	CNC	CNC	CNC	CNC	
MAX	9.3	10.3	10.8	10.5	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	7.2	7.2	11.9	
MIN	10.8	11.6	11.5	12.1	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	7.9	7.9	13.0	
RISE	2	3	3	1	3	2	3	2	2	2	3	2	2	3	2	1	2	3	2	3	1	1	2	
0- 1	2.0		2.0		1.0			7.0		9.0		9.0		2.5	5.0	4.5		3.0	8.0	9.0	1.0	5.0	12.0	
1- 2								1.5	9.0	12.0	5.5	10.0		8.5	6.5		9.5	4.5	10.5	12.0	2.5	6.5	0.0	
2- 3		3.0						6.0	6.5	6.0	11.5	10.5		7.0	8.0	11.5		6.0	12.5	1.5	4.0	8.5	0.0	
3- 4	4.0		4.0					0.5	4.5	9.5		11.0	4.0	5.5	9.5	9.5	8.5	1.5	2.0	4.5	6.0	1.5	0.0	
4- 5	1.5							5.0	2.5	12.5	8.0	12.0	5.5	4.0	11.0	7.5		3.0	4.0	7.5	7.5	3.0	0.5	
5- 6		0.5	0.5					9.0	0.5	6.5		12.5	6.5	2.5	12.5	5.5	7.5	4.5	6.5	10.5	0.5	5.0	0.5	
6- 7								4.0	9.0	9.5	5.0		7.5	8.5				6.0	8.5	0.0	2.5	6.5	0.5	
7- 8	3.5	4.5	11.5					8.0	7.0	4.0	11.0		8.5	7.0	3.0	12.0	6.0	1.5	11.0	3.0	4.0	8.5	0.5	
8- 9	1.0		2.5					3.0	5.0	7.0			9.5	5.5	4.5	10.0		3.0		6.0	5.5	1.5	0.5	
9-10								7.0	3.0	10.0	7.5		10.5	4.0	6.0	8.0	5.0	4.5	2.0	9.0	7.5	3.0	1.0	
10-11		2.0		12.5				2.0	1.0	4.5		3.5	12.0	2.5	7.5	6.0	12.0	6.5	4.5		0.5	5.0	1.0	
11-12	3.0		4.5		0.0			6.0	9.5	7.5	4.5	4.0	13.0	8.5	9.0	4.0		1.5	7.0	2.0	2.0	6.5	1.0	
12-13	0.5	6.0						1.0	7.5	10.5	10.5	4.5		7.0	11.0	13.0	11.0	3.0	9.0	5.0	4.0	8.0	1.0	
13-14			0.5			1.0		5.0	5.5	5.0		5.5		5.5	12.5	10.5		5.0	11.5	8.0	5.5	1.0	1.0	
14-15					0.0	0.5		9.0	3.5	8.0	7.0	6.0		4.0		8.5	10.0	0.0	0.5	11.0	7.0	3.0	1.5	
15-16	2.5	3.5	12.0					4.0	1.0	11.0		6.5	5.0	2.5		6.5		1.5	2.5	0.5	0.5	4.5	1.5	
16-17			3.0					8.0	10.0	5.0		7.0	6.0	8.5	4.0	4.5	9.0	3.5	5.0	3.5	2.0	6.5	1.5	
17-18								3.0	8.0	8.5	10.0	8.0	7.0	7.0	5.5			5.0	7.0	6.5	3.5	8.0	1.5	
18-19		1.0						7.0	6.0	11.5		8.5	8.0	5.5	7.5	11.5	7.5	0.0	9.5	9.5	5.5	1.0	1.5	
19-20	2.5		5.0					2.0	3.5	5.5	6.5	9.0	9.0	4.0	9.0	9.5		2.0	12.0		7.0	3.0	2.0	
20-21		5.0			0.5			6.0	1.5	9.0	12.5	10.0	10.0	2.5	10.5	7.0	6.5	3.5	1.0	2.0	0.0	4.5	2.0	
21-22			1.0					1.0		12.0		10.5	11.5	8.5	12.0	5.0		5.0	3.0	5.0	2.0	6.0	2.0	
22-23	4.5							5.0	8.5	6.0	9.5	11.0	12.5	7.0			5.5	0.5	5.5	8.0	3.5	8.0	2.0	
23-24	2.0	2.5	12.5					0.0	6.0	9.5		12.0		5.5		12.0	12.5	2.0	7.5	11.5	5.5	1.0	2.0	
24-25			3.5					4.0	4.0	12.5	6.0	12.5		4.0	4.0	10.0	4.5	3.5	10.0	1.0	7.0	2.5	2.5	
25-26		6.5						8.5	2.0	6.5	12.0			2.5	5.5	8.0	11.5	5.5	12.0	4.0	0.0	4.5	2.5	
26-27	4.0					1.5		3.0		9.5				4.5	8.5	7.0	6.0	0.5	1.5	7.0	1.5	6.0	2.5	
27-28	1.5		5.5	12.5		0.5		7.5	8.5	4.0	9.0			5.5	7.0	8.5		10.5	2.0	3.5	10.0	3.5	7.5	2.5
28-29		3.5						2.0	6.5	7.0				6.5	5.5	10.0	12.5		4.0	6.0		5.0	1.0	2.5

	SS	RV	RZ	YZ	AN	RR	RU	RV	RX	RZ	UU	XX	XZ	DM	RW	XZ	RX	SV	BB	RX	RR	GQ	TW
	CVN	CAP	CAP	CAP	CAP	CET	CET	CET	CET	CET	CET	CYG	CYG	CYG	DRA	DRA	ERI	ERI	ERI	FOR	GEM	GEM	HER
MAX	11.2	10.2	12.5	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	11.1	10.7	13.6	10.5
MIN	12.5	11.6	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	12.5	11.9	14.6	11.8
RISE	2	2	3	3	5	2	3	3	3	2	3	1	3	2	2	3	3	5	2	2	2	2	2
0- 1	11.5					1.0			0.5			8.0	3.0	0.0	8.5	3.5		1.5	3.0		0.5	10.5	
1- 2	10.0					3.5						3.5	1.5		5.5	2.5	0.5		6.0		5.0	0.0	10.0
2- 3	9.0											9.0	11.0	12.5	3.0	1.0	5.0	4.5		3.5	0.0	3.5	
3- 4	8.0						1.5					4.0	9.5		0.0	0.0					4.5	7.0	10.0
4- 5	7.0		12.0					2.0	0.5			9.5	8.0		8.0	10.5			2.5		9.5	10.5	
5- 6	6.0					0.5						5.0	6.5	1.0	5.5	9.0	3.5	1.5	6.0	3.0	4.5	0.0	10.0
6- 7	5.0		12.0			3.0						0.0	4.5		2.5	8.0					9.0	3.5	
7- 8	4.0										0.5	5.5	3.0		10.5	7.0		4.5			4.0	7.0	10.0
8- 9	3.0		12.5	13.0					1.0			0.5	1.5		7.5	6.0	2.0		2.5	3.0	8.5	10.0	
9-10	2.0							1.5				6.0	11.0		5.0	4.5	6.0		5.5		3.5		10.0
10-11	12.5		12.5				2.5				1.5	1.5	9.5	2.0	2.0	3.5		1.0			8.5	3.0	
11-12	11.5					2.5				0.0		6.5	8.0		10.0	2.5	0.5			2.5	3.5	6.5	9.5
12-13	10.5		12.5					4.5	1.5	1.0		2.0	6.0		7.5	1.5	4.5	4.5	2.0		8.0	10.0	
13-14	9.5						1.0			1.5		7.0	4.5	0.5	4.5	0.0			5.5		3.0		9.5
14-15	8.5		12.5					1.5		2.0		2.5	3.0		2.0	10.5				2.0	7.5	3.0	
15-16	7.5									2.5		7.5	1.5	13.0	10.0	9.5	3.0	1.0			2.5	6.5	9.5
16-17	6.0		13.0			1.5			2.0	3.0		3.0	11.0		7.0	8.5			2.0		7.5	10.0	
17-18	5.0					4.5		4.0		3.5		8.0	9.5		4.5	7.0		4.5	5.0	2.0	2.5		9.5
18-19	4.0		13.0							4.0		3.5	8.0	1.5	1.5	6.0	1.5				7.0	3.0	
19-20	3.0							1.0		4.5		8.5	6.0		9.5	5.0	5.5				2.0	6.5	9.5
20-21	2.0		13.0				1.5		2.0			4.0	4.5		6.5	4.0		1.0	1.5	1.5	6.5	9.5	
21-22	12.5					1.0						9.0	3.0		4.0	2.5			5.0		1.5		9.5
22-23	11.5					3.5		4.0				4.5	1.5		1.0	1.5	4.0	4.5			6.5	3.0	
23-24	10.5	13.0										0.0	11.0	12.5	9.0	0.5				1.5	1.5	6.0	9.5
24-25	9.5							0.5				5.0	9.5		6.5	10.5			1.5		6.0	9.5	
25-26	8.5				13.0							0.5	8.0		3.5	9.5	2.5	1.0	4.5		1.0		9.5
26-27	7.5					0.5						5.5	6.0	1.0	1.0	8.5				1.0	5.5	2.5	
27-28	6.5					3.0	2.5	3.5			0.5	1.0	4.5		9.0	7.5		4.5			1.0	6.0	9.5
28-29	5.5											6.5	3.0		6.0	6.0	1.0		1.0		5.5	9.5	

	VX	VZ	AR	DL	DY	DY	DY	LS	SZ	UU	DG	DH	RR	SS	ST	TV	WW	AA	VY	U	SZ	SZ	SZ
	HER	HER	HER	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LEO	LEO	LMI	LEP	LYN	LYN	LYN
MAX	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	13.6	9.8	9.1	9.1	9.1
MIN	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	14.6	11.1	9.6	9.6	9.6
RISE	2	2	2	1	1	1	1	2	2	2	3	2	2	2	2	2	3	2	2	2	1	1	1
0- 1	7.0		6.0	8.0		7.0	10.5	6.5	1.5	8.5	5.0	9.5	5.5	8.5	11.5		7.5	5.5	12.5	6.0	1.0	4.0	6.5
1- 2		11.5	4.5	12.0	11.5		8.0	10.5	3.5	10.0		9.0	3.0		10.5	9.0	12.5	10.5	1.0		3.0	6.0	0.0
2- 3		8.5			9.0	12.5		8.5	5.0	11.0		8.5	0.5	6.0	9.5		3.0		2.5		5.0	8.0	2.0
3- 4	11.5	6.0	12.5			10.0		6.5	7.0	12.0	5.5	8.0	9.5	12.0	8.5	9.5	8.0	5.5	3.5	3.5	7.0	1.5	4.0
4- 5	9.0		11.5	11.0		7.0	11.0	10.5	9.0	0.5		7.5	7.0	3.0	7.5			10.0	5.0		0.5	3.5	6.0
5- 6	7.0	10.5	10.0		11.5		8.0	8.5	10.5	2.0		7.0	4.5	9.0	6.5	10.0	3.5		6.0		2.5	5.5	8.0
6- 7		8.0	8.5		9.0	12.5		6.5		3.0	6.0	6.5	2.5		5.5		8.0	5.0	7.5	1.5	4.5	7.5	1.5
7- 8			7.0	10.0		10.0		10.5	1.0	4.0	0.0	6.0	0.0	6.0	4.5	10.5		10.0	8.5	5.5	6.5	0.5	3.5
8- 9	11.5	12.5	5.5			7.5	11.0	8.5	3.0	5.5		5.5	8.5	12.0	3.5	2.5	3.5		10.0		8.5	3.0	5.5
9-10	9.5	10.0	4.0		12.0		8.5	6.5	5.0	6.5	6.5	5.0	6.5	3.0	2.0	11.0	8.5	5.0	11.0		2.0	5.0	7.5
10-11	7.5	7.0		9.0	9.5			10.5	6.5	7.5	0.5	4.5	4.0	9.0	12.5	3.0		10.0	12.5	3.0	4.0	7.0	1.0
11-12			12.5		7.0	10.5		8.5	8.5	8.5		4.0	2.0		11.5	11.5	4.0		1.0		6.0	0.0	3.0
12-13		11.5	11.0			8.0	11.5	6.5	10.0	10.0	7.0	3.5	10.5	6.5	10.5	3.5	9.0	5.0	2.5		8.0	2.0	5.0
13-14	12.0	9.0	9.5	8.0	12.5		9.0	10.5		11.0	1.0	3.0	8.0	12.5	9.5	11.5		9.5	3.5	1.0	1.5	4.5	7.0
14-15	9.5	6.0	8.0	12.5	10.0			8.5	1.0	12.0		2.0	6.0	3.5	8.5	4.0	4.5		5.0	5.0	3.5	6.5	0.5
15-16	7.5		6.5		7.0	10.5		6.5	2.5	1.0	7.5	1.5	3.5	9.5	7.5	12.0	9.0	4.5	6.0		5.5	8.5	2.5
16-17		11.0	5.5			8.0	11.5	10.5	4.5	2.0	1.5	1.0	1.5		6.5	4.5		9.5	7.5		7.5	1.5	4.5
17-18		8.0	4.0	11.5	12.5		9.0	8.5	6.0	3.0		0.5	10.0	6.5	5.5	12.5	4.5		8.5	2.5	1.0	3.5	6.5
18-19	12.0				10.0			6.5	8.0	4.0	7.5		7.5	12.5	4.0	5.0	9.5	4.5	10.0		3.0	6.0	8.5
19-20	10.0	13.0	12.0		7.5	11.0		10.5	10.0	5.5	2.0		5.5	3.5	3.0		0.0	9.5	11.0		5.0	8.0	2.0
20-21	7.5	10.0	11.0	10.5		8.5	12.0	8.5		6.5		11.0	3.0	10.0	2.0	5.0	5.0		12.5	0.5	7.0	1.0	4.0
21-22		7.0	9.5		13.0		9.5	6.5	0.5	7.5	8.0	10.5	0.5		12.5		10.0	4.5	1.0	4.5	0.5	3.0	6.0
22-23			8.0		10.5		7.0	10.5	2.0	9.0	2.0	9.5	9.5	7.0	11.5	5.5	0.5	9.0	2.5		2.5	5.0	8.0
23-24	12.0	12.0	6.5	9.5	8.0	11.5		8.5	4.0	10.0		9.0	7.0	13.0	10.5		5.5		3.5		4.5	7.5	1.5
24-25	10.0	9.0	5.0			9.0	12.5	6.5	6.0	11.0	8.5	8.5	5.0	4.0	9.5	6.0	10.5	4.0	5.0	2.0	6.5	0.5	3.5
25-26	8.0	6.0	3.5				9.5	10.5	7.5	12.0	2.5	8.0	2.5	10.0	8.5		0.5	9.0	6.0	6.0	8.5	2.5	5.5
26-27				8.5	10.5		7.0	8.5	9.5	1.0		7.5	0.0		7.0	6.5	5.5		7.5		2.0	4.5	7.5
27-28		11.0	12.0	13.0	8.0	11.5		6.5	11.0	2.0	9.0	7.0	9.0	7.0	6.0		10.5	4.0	8.5		4.0	6.5	1.0
28-29	12.5	8.0	10.5			9.0	12.5	10.5		3.0	3.0	6.5	6.5		5.0	7.0	1.0	9.0	10.0	3.5	6.0	0.0	3.0

	RR	RZ	ST	AV	BH	KZ	RU	DF	RV	TU
	LYR	LYR	OPH	PEG	PEG	PUP	SCL	SER	UMA	UMA
MAX	7.1	10.0	11.3	9.9	10.0	11.3	9.3	11.4	10.1	9.2
MIN	8.1	12.0	12.7	10.9	10.8	12.8	10.8	13.0	11.2	10.2
RISE	2	2	3	2	3	3	2	2	3	3
0- 1	1.0	10.0	9.5	12.5				9.5	7.0	6.5
1- 2		10.5				1.0		6.5	5.5	9.0
2- 3	7.5	11.0		11.5					4.0	12.0
3- 4	10.5	11.5			1.0	1.5		11.0	2.5	1.0
4- 5	0.5	12.0	11.0	1.0				8.0	1.0	4.0
5- 6		12.5	8.5			2.0		5.0	10.5	6.5
6- 7								12.5	9.0	9.5
7- 8	10.0				13.0	2.5		9.5	7.5	12.5
8- 9			12.0					6.5	6.0	1.5
9-10			9.5	12.0		3.0			4.5	4.5
10-11					2.5			11.5	3.0	7.0
11-12	9.0			1.5		3.5		8.5	1.5	10.0
12-13	12.5				0.5			5.5	11.0	12.5
13-14			11.0	0.5		4.0		13.0	9.5	2.0
14-15			8.5					10.0	8.0	5.0
15-16	8.5					4.0		7.0	6.5	7.5
16-17	11.5			12.5					5.0	10.5
17-18	1.0		12.0			4.5	1.0	11.5	3.5	
18-19		7.5	10.0	11.5			1.0	8.5	2.0	2.5
19-20	7.5	8.0			2.0	5.0	0.5	5.5	0.0	5.5
20-21	11.0	8.5		1.0			0.0	13.0	10.0	8.0
21-22	0.5	9.0				5.5		10.0	8.5	11.0
22-23		9.5	11.0					7.0	7.0	
23-24		10.0	8.5			6.0			5.5	3.0
24-25	10.0	10.5						11.5	4.0	6.0
25-26		11.5		12.0		6.5		8.5	2.5	8.5
26-27		12.0	12.5					5.5	0.5	11.5
27-28		12.5	10.0	1.5		7.0			10.5	0.5
28-29	9.0	13.0			1.0			10.0	9.0	3.5