

MAS RR Lyrae Ephemeris for February 2015

all times in U.T.

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

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	VZ	KV	SS	RV	VW	RR	RU	RV	RX	RZ	UU	XX	XZ	DM	RW	XZ	RX	SV	BB	RX	SS	RR	TW	
	CNC	CNC	CVN	CAP	CAP	CET	CET	CET	CET	CET	CET	CYG	CYG	CYG	DRA	DRA	ERI	ERI	ERI	FOR	FOR	GEM	HER	
MAX	7.2	11.9	11.2	10.2	12.6	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	9.4	10.7	10.5	
MIN	7.9	13.0	12.5	11.6	13.5	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	10.6	11.9	11.8	
RISE	1	2	2	2	2	2	3	3	3	2	3	1	3	2	2	3	3	5	2	2	2	2	2	
0- 1	6.5	1.0	8.5			1.0		0.5				9.5	6.0		9.0	4.0	4.0					7.5	9.0	
1- 2	8.5	1.0	7.5			3.5	1.0					5.0	4.5		6.5	3.0						2.5		
2- 3	1.5	1.0	6.5									0.5	3.0		3.5	2.0			2.0			7.0	9.0	
3- 4	3.0	1.0	5.5		13.0			3.0	0.0			5.5	1.5	2.0	1.0	0.5	2.5	2.5	5.5			2.0		
4- 5	5.0	1.5	4.5									1.0	11.0		9.0	11.0						6.5	9.0	
5- 6	6.5	1.5	3.5			0.5		0.0				6.0	9.5		6.0	10.0				4.0		2.0		
6- 7	8.0	1.5	2.5			3.0						1.5	7.5	0.5	3.5	8.5	1.0		2.0			6.5	9.0	
7- 8	1.5	1.5	13.0						0.5			6.5	6.0		0.5	7.5	5.5		5.0			1.5		
8- 9	3.0	1.5	12.0				2.0	3.0				2.0	4.5	13.0	8.5	6.5		2.5		4.0		6.0	9.0	
9-10	4.5	2.0	11.0									7.0	3.0		5.5	5.5						1.0		
10-11	6.5	2.0	10.0									2.5	1.5		3.0	4.0	4.0		1.5			5.5	9.0	
11-12	8.0	2.0	9.0	13.0		2.5	0.5		1.0			7.5	11.0	1.5	0.0	3.0			5.0	3.5		1.0		
12-13	1.0	2.0	8.0								0.5	3.0	9.5		8.0	2.0						5.5	9.0	
13-14	3.0	2.5	7.0					2.5				8.5	7.5		5.5	1.0	2.5	2.5				0.5		
14-15	4.5	2.5	5.5		13.0							3.5	6.0		2.5	11.0	6.5		1.5	3.5		5.0	9.0	
15-16	6.0	2.5	4.5						1.0	0.5	1.0	9.0	4.5		10.5	10.0			4.5			0.0		
16-17	8.0	2.5	3.5			2.0				1.0		4.5	3.0	12.5	8.0	9.0	0.5					5.0	9.0	
17-18	1.0	2.5	2.5			4.5						9.5	1.5		5.0	7.5	5.0				3.0	3.0	9.5	
18-19	2.5	3.0					1.0	2.5		2.0	2.0	5.0	11.0		2.5	6.5		2.5	1.0		3.0	4.5	8.5	
19-20	4.5	3.0	12.0						1.5	2.5		0.0	9.5	1.0	10.0	5.5			4.5			2.5	9.0	
20-21	6.0	3.0	11.0							3.0		5.5	7.5		7.5	4.5	3.5				2.5	2.5	4.0	8.5
21-22	8.0	3.0	10.0			1.0				3.5		1.0	6.0		4.5	3.0						2.5	8.5	
22-23	1.0	3.0	9.0			4.0				4.0		6.0	4.5		2.0	2.0			1.0			2.0	4.0	8.5
23-24	2.5	3.5	8.0					2.0	2.0	4.5		1.5	3.0		10.0	1.0	2.0	2.0	4.0	2.5	2.0	8.5		
24-25	4.5	3.5	7.0	12.5								6.5	1.5	1.5	7.0	11.5	6.0					1.5	3.5	8.5
25-26	6.0	3.5	6.0		13.0		2.0					2.0	11.0		4.5	10.0						1.5	8.0	
26-27	7.5	3.5	5.0			0.5						7.0	9.0		1.5	9.0	0.5		0.5	2.0	1.0	3.0	8.5	
27-28	1.0	3.5	4.0			3.0			2.5			2.5	7.5	0.5	9.5	8.0	4.5		4.0			1.0	7.5	

	VX	VZ	AR	DL	DY	DY	DY	LS	SZ	UU	DG	DH	RR	SS	ST	TV	WW	AA	U	SZ	SZ	SZ	RR
	HER	HER	HER	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LEO	LEO	LEP	LYN	LYN	LYN	LYR
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	9.8	9.1	9.1	9.1	7.1
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	11.1	9.6	9.6	9.6	8.1
RISE	2	2	2	1	1	1	1	2	2	2	3	2	2	2	2	2	3	2	2	1	1	1	2
0- 1			12.0		9.5			9.0	7.0	5.5	4.0	2.5	3.0	5.0	7.5	8.0			2.0	4.5	7.0	1.5	
1- 2	11.0	10.5	11.0	11.5	7.0	10.5		7.0	8.5	6.5		2.0	1.0	11.0	6.5		4.5	6.0	6.0	6.5	0.5	3.5	
2- 3	9.0	8.0	9.5			8.0	11.5	10.5	10.5	7.5	10.0	1.5	9.5		5.5	8.5	9.5	11.0		8.5	2.5	5.5	
3- 4	6.5		8.0		12.5		9.0	9.0		9.0	4.5	1.0	7.0	8.0	4.5		0.0			1.5	4.5	7.5	9.5
4- 5		12.5	6.5	10.5	10.0			7.0	1.0	10.0		0.5	5.0		3.0	9.0	5.0	6.0	3.5	4.0	6.5	1.0	12.5
5- 6		10.0	5.0		7.5	11.0		10.5	3.0	11.0	10.5		2.5	5.5	2.0		10.0	10.5		6.0	0.0	3.0	
6- 7	11.0	7.0	3.5			8.0	12.0	9.0	4.5	12.5	4.5		0.5	11.5	12.5	9.5	0.5			8.0	2.0	5.0	
7- 8	9.0			9.5	13.0		9.0	7.0	6.5	1.0		11.0	9.0	2.5	11.5		5.5	5.5	1.5	1.0	4.0	7.0	8.5
8- 9	7.0	12.0	12.0		10.0			10.5	8.5	2.0	11.0	10.5	6.5	8.5	10.5	10.0	10.5	10.5	5.0	3.0	6.0	0.5	12.0
9-10		9.0	10.5		7.5	11.0		9.0	10.0	3.0	5.0	9.5	4.5		9.5		0.5			5.5	8.0	2.5	
10-11		6.0	9.0	8.5		8.5	12.0	7.0		4.5		9.0	2.0	5.5	8.5	10.5	5.5	5.5		7.5	1.5	4.5	
11-12	11.5		7.5	12.5			9.5	10.5	1.0	5.5		8.5	10.5	11.5	7.5	2.5	10.5	10.5	3.0	0.5	3.5	6.5	8.0
12-13	9.0	11.0	6.0		10.5		7.0	9.0	2.5	6.5	5.5	8.0	8.5	2.5	6.0	11.0	1.0			2.5	5.5	8.5	11.0
13-14	7.0	8.0	5.0		8.0	11.5		7.0	4.5	8.0		7.5	6.0	8.5	5.0	3.0	6.0	5.5		4.5	7.5	2.0	1.0
14-15			3.5	11.5		9.0	12.5	10.5	6.0	9.0		7.0	4.0		4.0	11.5	11.0	10.0	1.0	7.0	1.0	4.0	
15-16		13.0					10.0	9.0	8.0	10.0	6.0	6.5	1.5	6.0	3.0	3.5	1.5		4.5	0.0	3.0	6.0	7.0
16-17	11.5	10.0	11.5		11.0		7.0	7.0	9.5	11.0	0.0	6.0	10.0	12.0	2.0	12.0	6.5	5.0		2.0	5.0	8.0	10.5
17-18	9.5	7.0	10.5	10.5	8.0	12.0		10.5		12.5		5.5	8.0	3.0	12.5	4.0	11.5	10.0		4.0	7.0	1.5	
18-19	7.5		9.0			9.0	12.5	9.0		1.0	6.5	5.0	5.5	9.0	11.5	12.5	2.0		2.5	6.0	0.5	3.5	
19-20		12.0	7.5				10.0	7.0	2.0	2.0	0.5	4.5	3.0		10.5	4.5	6.5	5.0	6.5	8.5	2.5	5.5	
20-21		9.0	6.0	9.5	11.0		7.5	10.5	4.0	3.0		4.0	1.0	6.0	9.0	12.5	11.5	10.0		1.5	4.5	7.5	9.5
21-22	12.0	6.5	4.5		8.5	12.0		9.0	5.5	4.5	6.5	3.5	9.5	12.0	8.0	5.0	2.0		0.0	3.5	6.5	1.0	13.0
22-23	9.5		3.0			9.5		7.0	7.5	5.5	1.0	3.0	7.0	3.0	7.0		7.0	5.0	4.0	5.5	8.5	3.0	
23-24	7.5	11.0	13.0	8.5		7.0	10.5	10.5	9.5	6.5		2.5	5.0	9.5	6.0	5.5	12.0	9.5		7.5	2.0	5.0	
24-25		8.5	11.5		11.5		8.0	9.0	11.0	8.0	7.0	2.0	2.5		5.0		2.5			1.0	4.0	7.0	9.0
25-26			10.0		9.0	12.5		7.0		9.0	1.0	1.5	0.5	6.5	4.0	5.5	7.5	4.5	2.0	3.0	6.0	0.0	12.0
26-27	12.0		8.5	7.5		10.0		11.0	2.0	10.0		1.0	9.0	12.5	3.0		12.5	9.5	6.0	5.0	8.0	2.5	
27-28	10.0	10.0	7.0	12.0		7.0	11.0	9.0	3.5	11.0	7.5	0.0	6.5	3.5	2.0	6.0	3.0			7.0	1.5	4.5	

	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	9.0		12.5			6.5	5.0	
1- 2	9.5	12.0					3.5	3.0
2- 3	10.5	10.0		1.0		11.0	1.5	5.5
3- 4	11.0					8.0	0.0	8.5
4- 5	11.5		0.5			5.0	10.0	11.0
5- 6	12.0					12.5	8.5	0.5
6- 7	12.5	11.0		12.5		9.5	7.0	3.5
7- 8	13.0	9.0				7.0	5.5	6.0
8- 9							4.0	9.0
9-10			12.0	2.5		11.5	2.0	11.5
10-11		12.5				8.5	0.5	1.0
11-12		10.0	1.5	0.5	1.0	5.5	10.5	3.5
12-13					1.0	13.0	9.0	6.5
13-14			0.0		0.5	10.0	7.5	9.5
14-15					0.0	7.0	6.0	12.0
15-16		11.5					4.5	1.5
16-17		9.0	12.5			11.5	2.5	4.0
17-18						8.5	1.0	7.0
18-19				1.5		5.5	11.0	9.5
19-20		12.5				13.0	9.5	12.5
20-21	7.5	10.0	1.0			10.0	8.0	2.0
21-22	8.5					7.0	6.5	4.5
22-23	9.0						5.0	7.5
23-24	9.5					11.5	3.0	10.0
24-25	10.0	11.5				8.5	1.5	13.0
25-26	10.5	9.0	12.0			5.5	0.0	2.5
26-27	11.0						10.0	5.0
27-28	11.5		1.5	1.0		10.0	8.5	8.0