

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

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	VZ	VZ	SS	RV	RZ	VW	YZ	AN	RR	RX	UU	XX	XZ	DM	RW	XZ	RR	TW	VX	VZ	AR	DL	DY
	CNC	CNC	CVN	CAP	CAP	CAP	CAP	CAP	CET	CET	CET	CYG	CYG	CYG	DRA	DRA	GEM	HER	HER	HER	HER	HER	HER
MAX	7.2	7.2	11.2	10.2	12.5	12.6	11.0	12.0	9.3	11.0	11.5	11.4	9.1	11.2	11.0	9.6	10.7	10.5	9.9	10.7	10.6	11.0	10.2
MIN	7.9	7.9	12.5	11.6	13.5	13.5	11.6	13.0	10.3	11.7	12.4	12.5	10.5	12.7	12.0	10.3	11.9	11.8	10.4	12.0	11.6	12.4	10.6
RISE	1	1	2	2	3	2	3	5	2	3	3	1	3	2	2	3	2	2	2	2	2	1	1
0- 1		2.5	9.0	10.5		8.0	10.0					10.0	9.0		10.0	6.5		2.0	8.0	1.5	8.0		3.0
1- 2		4.0	7.5	8.0	9.5			7.5				5.0	7.5	10.0	7.0	5.5	2.5	7.0	6.0	9.5	6.5	5.0	
2- 3	1.5	6.0	6.5				8.0				10.0	10.5	6.0	6.0	4.5	4.5		2.0	4.0	6.5	5.0	9.5	8.5
3- 4	3.0		5.5		9.5		10.0	11.0				6.0	4.0		1.5	3.0	2.0	7.0	1.5	3.5	4.0		6.0
4- 5	5.0		4.5			10.0						11.0	2.5	8.5	9.5	2.0		2.0	10.5		2.5	4.0	3.5
5- 6		2.5	3.5	9.0	9.5	8.5	8.0				10.5	6.5		4.5	6.5		1.5	7.0	8.5	8.5		8.5	
6- 7		4.0	2.5			7.5	10.5	7.5				2.0	10.5	11.0	4.0			2.0	6.0	5.5	10.5		9.0
7- 8	1.5	5.5	1.5		10.0							7.0	9.0	7.0		10.0		7.0	4.0	3.0	9.5	3.0	6.5
8- 9	3.0						8.5	11.0				2.5	7.5		9.0	9.0	6.0	2.0	2.0	10.5	8.0	7.5	3.5
9-10	5.0		11.0	9.5	10.0	10.5	10.5					7.5	6.0	9.5	6.5	8.0		7.0	10.5	7.5	6.5		
10-11		2.0	10.0	7.0		9.5						3.0	4.0	5.5	3.5	6.5	5.5	2.0	8.5	5.0	5.0	2.0	9.5
11-12		4.0	9.0		10.0	8.0	8.5	7.5				8.0	2.5			5.5		7.0	6.5	2.0	3.5	6.5	6.5
12-13		5.5	8.0				11.0					3.5		8.0	9.0	4.5	5.0	2.0	4.5	9.5	2.0	11.0	4.0
13-14	3.0		7.0	10.5	10.0			10.5				8.5	10.5		6.0	3.5		6.5	2.0	7.0			1.5
14-15	4.5		6.0	8.0			8.5		11.0			4.0	9.0	10.0	3.5	2.0	5.0	2.0	11.0	4.0	10.5	5.5	9.5
15-16		2.0	5.0		10.0	10.0	11.0					9.0	7.5	6.5	11.0			6.5	9.0		9.0	10.0	7.0
16-17		3.5	4.0			8.5		7.0				4.5	6.0		8.5		4.5	2.0	6.5	9.0	7.5		4.5
17-18		5.5	2.5	11.0	10.5	7.5	9.0					9.5	4.0	9.0	5.5	10.5		6.5	4.5	6.0	6.0	4.5	2.0
18-19	3.0		1.5	8.5				10.5				5.0	2.5	5.0	3.0	9.0	4.5	2.0	2.5	3.0	4.5	9.0	10.0
19-20	4.5				10.5							10.0		11.0	11.0	8.0		6.5	11.0	10.5	3.5		7.5
20-21		2.0	11.0			10.5	9.0					5.5	10.5	7.5	8.0	7.0	4.0	2.0	9.0	8.0	2.0	3.5	4.5
21-22		3.5	10.0		10.5	9.5						11.0	9.0		5.5	6.0		6.5	7.0	5.0		8.0	2.0
22-23		5.5	9.0	9.5		8.0	7.0		10.5	10.0		6.0	7.5	9.5	2.5	4.5	3.5	1.5	4.5	2.0	10.0		10.0
23-24	2.5		8.0	7.0	10.5		9.5	10.0				1.5	6.0	6.0	10.5	3.5		6.5	2.5	10.0	9.0	2.5	7.5
24-25	4.5		7.0									6.5	4.0		8.0	2.5	3.5	1.5		7.0	7.5	7.0	5.0
25-26		2.0	6.0		11.0		7.5			10.5		2.0	2.5	8.0	5.0			6.5	9.0	4.0	6.0		2.5
26-27		3.5	5.0	10.0		10.0	9.5		11.0			7.5		4.5	2.5		3.0	1.5	7.0		4.5	1.5	10.5
27-28		5.0	4.0	7.5	11.0	8.5						2.5	10.5	10.5	10.0	10.5		6.5	5.0	9.0	3.0	6.0	8.0
28-29	2.5		3.0		6.0	7.5	7.5	10.0				8.0	9.0	7.0	7.5	9.5	2.5	1.5	3.0	6.0	1.5	10.5	5.5
29-30	4.0		2.0		11.0		9.5					3.5	7.5		4.5	8.0		6.5		3.0			2.5
30-31	6.0	1.5		10.5	6.5							8.5	5.5	9.0	2.0	7.0	2.5	1.5	9.5	11.0	10.0	5.0	11.0

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	DY	DY	LS	SZ	UU	DG	DH	RR	SS	ST	TV	WW	AA	SZ	SZ	SZ	RR	RZ	ST	AV	BH	RU	DF
	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LEO	LEO	LYN	LYN	LYN	LYR	LYR	OPH	PEG	PEG	SCL	SER
MAX	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	10.0	11.3	9.9	10.0	9.3	11.4
MIN	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	12.0	12.7	10.9	10.8	10.8	13.0
RISE	1	1	2	2	2	3	2	2	2	2	2	3	2	1	1	1	2	2	3	2	3	2	2
0- 1	6.5	10.5	5.5			4.0	2.5	6.0	3.5	5.0	4.0	5.0	6.0	3.0	6.0			8.0	8.0				3.5
1- 2	4.0	7.5	3.5				2.0	4.0		4.0				5.0	8.0	2.5	2.5	8.5	5.5	7.5			11.0
2- 3	1.5	5.0	2.0	2.0			1.5	1.5		3.0	4.5			7.5	1.5	4.5	6.0	9.0	3.0			11.0	8.0
3- 4	9.5	2.5	5.5	3.5		4.5			7.0	2.0		5.5	6.0		3.5	6.5	9.0	9.5		6.0	10.0	11.0	5.0
4- 5	7.0	10.5	3.5	5.5				8.0			5.0			2.5	5.5			10.5	9.0	10.0		10.5	2.0
5- 6	4.5	8.0	2.0					5.5	4.0					4.5	7.5	2.0	2.0	11.0	7.0		8.5		9.5
6- 7	2.0	5.5	5.5			4.5		3.5			5.0	5.5	5.5	6.5		4.0	5.0		4.5	9.0			6.5
7- 8	10.0	3.0	3.5		2.5										3.0	6.0	8.5						3.5
8- 9	7.5	11.0	2.0		3.5				7.0	8.0	5.5			2.0	5.0	8.0			10.5	8.0			
9-10	4.5	8.5	5.5	1.5	4.5	5.0		7.5		7.0		6.0	5.5	4.0	7.0				8.0				8.0
10-11	2.0	5.5	3.5	3.5	5.5			5.0	4.0	6.0	6.0			6.0		3.5	4.5		5.5	7.0			5.5
11-12	10.0	3.0	2.0	5.0				2.5		5.0		1.5		8.0	2.5	5.5	7.5	2.0	3.5	11.0			2.5
12-13	7.5		5.5			5.5				4.0	6.5	6.5	5.5	1.5	4.5	7.5	10.5	2.5		5.5	9.5		10.0
13-14	5.0	8.5	3.5						7.5	3.0				3.5	6.5				3.0	9.5	9.5		7.0
14-15	2.5	6.0	2.0					6.5		2.0	7.0	2.0		5.5		3.0	3.5	3.5	7.0		7.5		4.0
15-16	10.5	3.5	5.5					4.5	4.5				5.0	7.5	2.0	5.0	6.5	4.0	4.5	8.5			
16-17	8.0		3.5					2.0			7.5				4.0	7.0	10.0	4.5					8.5
17-18	5.5	9.0	2.0	3.0					1.5			2.0		3.0	6.0				5.0	10.5	7.5		5.5
18-19	3.0	6.5	5.5	4.5	2.5		5.0		7.5	9.0			5.0	5.0	8.0	2.0	2.5	5.5	8.5				2.5
19-20	11.0	3.5	3.5		3.5		4.5	6.0		8.0				7.0	1.5	4.5	6.0	6.0	6.0	6.5	11.0		10.0
20-21	8.5		2.0		4.5		4.0	4.0	4.5	7.0		2.5			3.5	6.5	9.0	6.5	3.5	10.5			7.0
21-22	5.5	9.0	5.5		5.5		3.5	1.5		6.0			5.0	2.5	5.5				7.0		9.0		4.0
22-23	3.0	6.5	3.5				3.0		1.5	5.0				4.5	7.5	1.5	2.0	7.5	9.5	9.0			
23-24	11.0	4.0	2.0				2.5	8.0	8.0	4.0		3.0		6.5		3.5	5.0	8.0	7.0		7.0		8.5
24-25	8.5	1.5	5.5	2.5			2.0	5.5		2.5			5.0		3.0	6.0	8.5	9.0	5.0	8.0			5.5
25-26	6.0	9.5	3.5	4.5				3.5	5.0	1.5				2.0	5.0	8.0			9.5				2.5
26-27	3.5	7.0	2.0									3.0		4.0	7.0				10.0	11.0	7.0		10.0
27-28		4.5	5.5						2.0		2.0		4.5	6.0		3.0	4.5	10.5	8.5	11.0			7.0
28-29	9.0	1.5	3.5			1.5		7.5	8.0					8.0	2.5	5.0	7.5	11.0	6.0	6.0	10.0		4.0
29-30	6.5	10.0	2.0		2.5			5.0		9.0	2.0	3.5		1.5	4.5	7.5	10.5		3.5	10.0			
30-31	3.5	7.0	5.5		3.5			2.5	5.0	8.0			4.5	3.5	6.5						8.5		8.5

	RV	TU
	UMA	UMA
MAX	10.1	9.2
MIN	11.2	10.2
RISE	3	3

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