

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

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	VZ	VZ	SS	RV	RZ	VW	YZ	AN	RR	RU	RX	UU	XX	XZ	DM	RW	XZ	RR	GQ	TW	VX	VZ	AR
	CNC	CNC	CVN	CAP	CAP	CAP	CAP	CAP	CET	CET	CET	CET	CYG	CYG	CYG	DRA	DRA	GEM	GEM	HER	HER	HER	HER
MAX	7.2	7.2	11.2	10.2	12.5	12.6	11.0	12.0	9.3	10.8	11.0	11.5	11.4	9.1	11.2	11.0	9.6	10.7	13.6	10.5	9.9	10.7	10.6
MIN	7.9	7.9	12.5	11.6	13.5	13.5	11.6	13.0	10.3	12.1	11.7	12.4	12.5	10.5	12.7	12.0	10.3	11.9	14.6	11.8	10.4	12.0	11.6
RISE	1	1	2	2	3	2	3	5	2	3	3	3	1	3	2	2	3	2	2	2	2	2	2
0- 1		2.5	10.5		7.5	9.5	7.5	10.5					4.0	4.5	6.5	6.5	5.0	5.0		3.0	10.5	10.5	
1- 2		4.0	9.5			8.5	9.5						9.0	3.0		3.5	3.5		3.5	8.0	8.5	7.5	10.0
2- 3	1.5	6.0	8.5		7.5	7.0							4.5		9.0		2.5	4.5		3.0	6.5	4.5	8.5
3- 4	3.5		7.0	9.0			7.5						9.5	11.0	5.0	8.5	1.5			8.0	4.5	1.5	7.0
4- 5	5.0		6.0	6.5	8.0		10.0						5.0	9.0		6.0		4.0		3.0	2.0	9.5	5.5
5- 6		2.5	5.0			10.5		10.0					10.0	7.5	7.5	3.0	10.5		3.5	7.5	11.0	6.5	4.5
6- 7		4.0	4.0		8.0	9.0	7.5						5.5	6.0		11.0	9.5	4.0		3.0	9.0	3.5	3.0
7- 8	1.5	5.5	3.0	10.0		7.5	10.0			11.0			10.5	4.5	10.0	8.5	8.5			7.5	6.5		1.5
8- 9	3.0		2.0	7.5	8.0								6.0	2.5	6.0	5.5	7.5	3.5		3.0	4.5	8.5	
9-10	5.0						8.0						1.5			3.0	6.0		3.5	7.5	2.5	5.5	10.0
10-11		2.0			8.0	11.0	10.0	10.0					6.5	10.5	8.5	11.0	5.0	3.0		3.0	11.0	3.0	8.5
11-12		4.0	10.5	10.5		9.5							2.0	9.0	4.5	8.0	4.0			7.5	9.0	10.5	7.0
12-13		5.5	9.5	8.0	8.5	8.5	8.0						7.0	7.5	11.0	5.5	3.0	3.0		2.5	7.0	7.5	5.5
13-14	3.0		8.5			7.0	10.5		11.0				2.5	6.0	7.0	2.5	1.5		3.5	7.5	4.5	4.5	4.0
14-15	4.5		7.5		8.5						10.0		8.0	4.5		10.5		2.5		2.5	2.5	2.0	2.5
15-16		2.0	6.5				8.5	10.0					3.0	2.5	9.5	7.5	11.0			7.5		9.5	
16-17		4.0	5.5	9.0	8.5	10.5	10.5					10.0	8.5		5.5	5.0	9.5	2.0		2.5	9.0	6.5	11.0
17-18		5.5	4.5			9.0							4.0	10.5		2.0	8.5		3.0	7.5	7.0	4.0	9.5
18-19	3.0		3.5		8.5	7.5	8.5				10.5		9.0	9.0	8.0	10.0	7.5	2.0		2.5	5.0		8.0
19-20	4.5		2.0				10.5					11.0	4.5	7.5		7.5	6.5			7.5	3.0	8.5	6.5
20-21		2.0		9.5	9.0			9.5					9.5	6.0	10.0	4.5	5.0	1.5		2.5		6.0	5.0
21-22		3.5		7.0		11.0	8.5						5.0	4.5	6.5	2.0	4.0		3.0	7.5	9.5	3.0	4.0
22-23		5.5	10.5		9.0	9.5	11.0				11.0		10.0	2.5		10.0	3.0			2.5	7.5	10.5	2.5
23-24	2.5		9.5			8.5							5.5		9.0	7.0	2.0	6.0		7.5	5.0	8.0	
24-25	4.5		8.5	10.0	9.0	7.0	9.0			11.0			10.5	10.5	5.0	4.5				2.5	3.0	5.0	11.0
25-26		2.0	7.5	7.5			11.0	9.5					6.0	9.0	11.0	1.5	11.0	5.5	3.0	7.0		2.0	9.5
26-27		3.5	6.5		9.0								1.5	7.5	7.5	9.5	10.0			2.5	9.5	10.0	8.0
27-28		5.0	5.5			10.5	9.0						6.5	6.0		6.5	8.5	5.0		7.0	7.5	7.0	6.5
28-29	2.5		4.5	11.0	9.5	9.0							2.0	4.5	9.5	4.0	7.5			2.5	5.5	4.0	5.0
29-30	4.5		3.5	8.5		7.5	7.0						7.0	2.5	6.0		6.5	5.0	2.5	7.0	3.0		3.5
30-31	6.0	1.5	2.5		9.5		9.0	9.0					2.5			9.0	5.5			2.5		9.0	2.0

	DL	DY	DY	DY	LS	SZ	UU	DG	DH	RR	SS	ST	TV	WW	AA	VY	SZ	SZ	SZ	RR	RZ	ST	AV
	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LEO	LEO	LMI	LYN	LYN	LYN	LYR	LYR	OPH	PEG
MAX	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	9.1	9.1	9.1	7.1	10.0	11.3	9.9
MIN	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	9.6	9.6	9.6	8.1	12.0	12.7	10.9
RISE	1	1	1	1	2	2	2	3	2	2	2	2	2	3	2	2	1	1	1	2	2	3	2
0- 1	6.0	5.0	8.5	1.5	1.5					6.0		8.5	4.5	3.5			2.0	5.0	7.5	4.0	9.5		7.5
1- 2	10.5	2.5	6.0	9.5	5.0					3.5	4.5	7.5			5.5		4.0	7.0		7.0	10.0	9.0	
2- 3		10.5	3.5	7.0	3.5					1.5		6.5	5.0			2.0	6.0		3.0	10.5	10.5	6.5	6.5
3- 4	5.0	8.0		4.5	1.5		2.0				1.5	5.0		3.5		3.0	8.0	2.0	5.0		11.0	4.0	10.5
4- 5	9.5	5.5	9.0	1.5	5.0	2.0	3.5			7.5	7.5	4.0	5.5		5.0	4.5		4.5	7.0	3.0			
5- 6		2.5	6.5	10.0	3.5	4.0	4.5			5.5		3.0				5.5	3.5	6.5		6.5		10.0	9.5
6- 7	4.0	11.0	3.5	7.0	1.5	5.5	5.5			3.0	4.5	2.0	6.0	4.0		7.0	5.5		2.5	9.5		7.5	
7- 8	8.5	8.0		4.5	5.0										5.0	8.0	7.5	1.5	4.5			5.5	8.0
8- 9		5.5	9.0	2.0	3.5				5.0		1.5		6.5					3.5	6.5	2.5	1.5	3.0	
9-10	3.0	3.0	6.5	10.0	1.5				4.5	7.0	8.0			4.5			3.0	6.0		5.5	2.0		7.0
10-11	7.5	11.0	4.0	7.5	5.0				4.0	5.0			7.0		5.0		5.0	8.0	2.0	8.5	2.5	9.0	11.0
11-12		8.5	1.5	5.0	3.5	1.5			3.5	2.5	5.0	8.5					7.0		4.0		3.0	6.5	6.0
12-13	2.0	6.0	9.5	2.5	1.5	3.5			2.5			7.0	7.5	4.5		1.5		3.0	6.0	1.5	3.5	4.0	10.0
13-14	6.5	3.5	7.0	10.5	5.0	5.0			2.0		2.0	6.0			5.0	3.0	2.5	5.0	8.0	4.5	4.0		
14-15	11.0		4.5	8.0	3.5		2.0		1.5	6.5	8.0	5.0				4.0	4.5	7.5	1.5	8.0	5.0	10.5	8.5
15-16		9.0	1.5	5.5	1.5		3.5	1.5		4.5		4.0		5.0		5.5	6.5		3.5	11.0	5.5	8.0	
16-17	5.5	6.5	10.0	2.5	5.0		4.5			2.0	5.0	3.0			4.5	6.5		2.5	5.5		6.0	5.5	7.5
17-18	10.0	3.5	7.0	11.0	3.5		5.5					2.0				8.0	2.0	4.5	7.5	4.0	6.5	3.0	
18-19			4.5	8.0	1.5			2.0		8.5	2.0			5.5			4.0	6.5		7.0	7.0		6.5
19-20	4.5	9.0	2.0	5.5	5.0	3.0				6.0	8.5				4.5		6.0		3.0	10.5	7.5	9.0	10.5
20-21	9.0	6.5	10.0	3.0	3.5	5.0				3.5							8.0	2.0	5.0		8.0	7.0	
21-22		4.0	7.5	11.0	1.5			2.0		1.5	5.5			5.5				4.0	7.0	3.0	8.5	4.5	9.5
22-23	3.5		5.0	8.5	5.0							8.0			4.5	1.5	3.5	6.0		6.5	9.0		
23-24	8.0	9.5	2.5	6.0	3.5					7.5	2.5	7.0	1.5		9.0	3.0	5.5	8.0	2.5	9.5	9.5	10.5	8.0
24-25		7.0	10.5	3.5	1.5			2.5		5.5		6.0		6.0		4.0	7.5	1.5	4.5		10.0	8.0	
25-26	2.5	4.5	8.0		5.0		2.0			3.0		5.0	2.0		4.0	5.5		3.5	6.5	2.5	10.5	5.5	7.0
26-27	7.0	1.5	5.5	9.0	3.5	2.5	3.5					5.5	4.0		1.5	9.0	6.5	2.5	5.5		5.5		3.5
27-28		10.0	2.5	6.0	1.5	4.5	4.5	3.0				3.0	2.5	6.5		8.0	5.0	7.5	2.0	9.0			6.0
28-29	1.5	7.0	11.0	3.5	5.0		5.5			7.0	2.5	2.0			4.0		7.0		4.0			9.5	10.0
29-30	6.0	4.5	8.0		3.5					5.0				3.0	2.0	8.5			3.0	6.0	1.5		7.0
30-31	10.0	2.0	5.5	9.0	1.5			3.5	5.0	2.5							2.0	5.0	8.0	5.0		4.5	9.0

	BH	KZ	RU	DF	RV	TU
	PEG	PUP	SCL	SER	UMA	UMA
MAX	10.0	11.3	9.3	11.4	10.1	9.2
MIN	10.8	12.8	10.8	13.0	11.2	10.2
RISE	3	3	2	2	3	3

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