

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

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	VZ	VZ	KV	SS	RV	RZ	VW	YZ	AN	RR	RU	RV	RX	RZ	UU	XX	XZ	DM	RW	XZ	RX	SV	BB
	CNC	CNC	CNC	CVN	CAP	CAP	CAP	CAP	CAP	CET	CET	CET	CET	CET	CET	CYG	CYG	CYG	DRA	DRA	ERI	ERI	ERI
MAX	7.2	7.2	11.9	11.2	10.2	12.5	12.6	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
MIN	7.9	7.9	13.0	12.5	11.6	13.5	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
RISE	1	1	2	2	2	3	2	3	5	2	3	3	3	2	3	1	3	2	2	3	3	5	2
0- 1				6.0	5.5	10.0	2.5	7.0		10.5		10.5	10.0	11.5		6.0	7.0	2.5	2.0	6.0			
1- 2				4.5	3.0	5.5	8.5	3.0	7.5		5.0				7.5	1.5	5.5	8.5	10.0	4.5		6.5	
2- 3	11.0			3.5		10.0	7.0	5.0			9.0	7.0				6.5	4.0	5.0	7.5	3.5	9.5		
3- 4				2.5	9.0	5.5	6.0	7.5		4.5			7.0			2.0	2.5	11.0	4.5	2.5		10.0	11.0
4- 5				1.5	6.5	10.5	4.5	3.0	4.0	7.0			10.5		8.5	7.0		7.0	2.0				
5- 6					4.0	5.5	3.0	5.5		9.5	7.5	10.0				2.5	10.5	3.5	10.0	11.5			
6- 7					1.5	10.5	1.5	7.5	7.0						4.0	7.5	8.5	9.5	7.0	10.5		6.5	
7- 8					9.5	5.5	8.0	3.5				7.0	7.5		9.0	3.0	7.0	5.5	4.5	9.5			10.5
8- 9					7.0	10.5	6.5	5.5			6.0		11.0			8.5	5.5	2.0	1.5	8.0		10.0	
9-10					4.5	6.0	5.0	8.0	3.5	6.5	10.0				5.0	3.5	4.0	8.0	9.5	7.0	10.5		
10-11				7.0	2.0	10.5	3.5	3.5		9.0		9.5	4.5		10.0	9.0	2.5	4.5	6.5	6.0			
11-12				6.0	10.0	6.0	2.5	5.5	7.0				8.0			4.0		10.5	4.0	5.0			10.5
12-13				5.0	7.5		8.5	1.5			8.5	6.5	11.5		5.5	9.5	10.5	6.5		3.5	9.0		
13-14				4.0	5.0	6.0	7.0	3.5							10.5	5.0	8.5	3.0	9.0	2.5		10.0	
14-15				3.0	2.5	1.5	6.0	6.0	3.5	6.0			4.5	6.0		10.0	7.0	9.0	6.5	1.5			
15-16	11.5			2.0	11.0	6.0	4.5	1.5		8.5	7.0	9.5	8.0	6.5	6.5	5.5	5.5	5.0	3.5				10.0
16-17					8.5	1.5	3.0	4.0	7.0	11.0	11.0			7.0	11.5	10.5	4.0	1.5	11.5	10.5			
17-18					6.0	6.5	1.5	6.0				6.5		7.5		6.0	2.5	7.5	9.0	9.5			
18-19					3.5	1.5	8.0	2.0			5.0		5.0	8.0	7.0	1.5		3.5	6.0	8.5		10.0	
19-20						6.5	6.5	4.0	3.5	5.5	9.5		8.5	8.5		6.5	10.0	10.0	3.5	7.0	10.0		10.0
20-21	11.5				9.0	1.5	5.0	6.5		8.0		9.0		9.5		2.0	8.5	6.0	11.0	6.0			
21-22				7.0	6.5	6.5	3.5	2.0	6.5	10.5				10.0	7.5	7.0	7.0	2.0	8.5	5.0			
22-23				6.0	4.0	2.0	2.5	4.0			7.5	6.0	5.5	10.5		2.5	5.5	8.5	5.5	4.0	8.5		
23-24				5.0	1.5	6.5	8.5	6.5					9.0	11.0		7.5	4.0	4.5	3.0	2.5		10.0	9.5
24-25				4.0	10.0	2.0	7.0	2.0	3.0	5.0				11.5	8.5	3.0	2.0	11.0	11.0	1.5			
25-26	11.0			3.0	7.5	7.0	6.0	4.5		7.5	6.0	9.0				8.0		7.0	8.0				
26-27			10.0	2.0	5.0	2.0	4.5	6.5	6.5	10.0	10.0		6.0		4.0	3.5	10.0	3.0	5.5	11.0	11.5		
27-28			10.0		2.5	7.0	3.0	2.5				5.5	9.5		9.0	8.5	8.5	9.5	2.5	9.5			9.5
28-29			10.0		10.5	2.0	1.5	4.5								4.0	7.0	5.5	10.5	8.5		10.0	
29-30			10.0		8.0	7.0	8.0	7.0	3.0	4.5	8.5				5.0	9.0	5.5	1.5	8.0	7.5	10.0		
30-31	11.0	10.5			5.5	2.5	6.5	2.5		7.0		8.5	6.0		10.0	4.5	4.0	8.0	5.0	6.0			

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	RX	SS	RR	TW	VX	VZ	AR	DL	DY	DY	DY	LS	RR	ST	TV	U	SZ	SZ	SZ	RR	RZ	ST	AV	
	FOR	FOR	GEM	HER	HER	HER	HER	HER	HER	HER	HER	HER	LEO	LEO	LEO	LEP	LYN	LYN	LYN	LYR	LYR	OPH	PEG	
MAX	11.1	9.4	10.7	10.5	9.9	10.7	10.6	11.0	10.2	10.2	10.2	10.8	10.0	10.8	11.5	9.8	9.1	9.1	9.1	7.1	10.0	11.3	9.9	
MIN	12.5	10.6	11.9	11.8	10.4	12.0	11.6	12.4	10.6	10.6	10.6	11.1	11.7	12.3	12.6	11.1	9.6	9.6	9.6	8.1	12.0	12.7	10.9	
RISE	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	2	1	1	1	2	2	3	2	
0- 1	9.0		11.5	9.5	7.5	2.5		8.0		3.0	6.5	2.0	2.0				8.0	11.0		8.5	8.5	5.0	6.5	
1- 2				5.0	5.5	10.0	9.5		7.5		4.0	6.0					1.5				9.0	2.5	10.5	
2- 3			11.0	9.5	3.5	7.5	8.0	2.5	5.0		1.5	4.0							9.5	1.5	9.5		5.0	
3- 4	9.0			4.5	1.5	4.5	6.5	7.0	2.5	6.0		2.0				9.5		8.5	11.5	4.5	10.0		9.5	
4- 5			10.5	9.5		1.5	5.0			3.5	7.0	6.0						2.0		8.0	11.0	6.0	4.0	
5- 6				4.5	8.0	9.5	3.5	1.5			4.5	4.0	1.5				9.5			11.0	11.5	4.0	8.0	
6- 7	8.5		10.5	9.5	6.0	6.5	2.5	6.0	5.5		2.0	2.0								9.0		1.5	3.0	
7- 8				4.5	3.5	3.5			3.0	6.5		6.0							1.5	11.5		8.0	2.0	4.0
8- 9			10.0	9.5	1.5					4.0	7.5	4.0		2.5				1.5		7.0			7.5	1.5
9-10	8.0			4.5		8.5	9.0	5.0			5.0	2.0		1.5			9.0			10.0		5.0	6.0	
10-11			9.5	9.5	8.0	5.5	8.0		6.0		2.0	6.0					9.0	11.0		8.5		1.5	2.5	10.0
11-12				4.5	6.0	2.5	6.5		3.0	6.5		4.0							1.5	3.0	2.5		4.5	
12-13	8.0		9.5	9.5	4.0		5.0	4.0		4.0	7.5	2.0						9.5		6.0	3.0		8.5	
13-14				4.5	1.5	7.5	3.5	8.0		1.5	5.0	6.0					8.5	11.5		9.5	3.5	6.5	3.5	
14-15			9.0	9.5		4.5	2.0		6.0		2.5	4.0				11.0	2.0		8.0		4.0	4.0	7.5	
15-16	7.5	11.5		4.5		2.0		3.0	3.5	7.0		2.0								10.0	2.0	4.5	1.5	2.5
16-17		11.0	8.5	9.0	6.0	9.5	10.5	7.0		4.5		6.0						9.0		5.5	5.0		6.5	
17-18		11.0		4.5	4.0	6.5	9.0			2.0	5.5	4.0					8.0	11.0		8.5	5.5	7.5	10.5	
18-19		11.0	8.5	9.0	2.0	3.5	7.5	2.0	6.5		3.0	2.0					1.5					6.0	5.0	5.5
19-20		10.5		4.5			6.0	6.0	4.0	7.5		6.0	2.0	2.5						9.5	1.5	6.5	3.0	9.5
20-21		10.5		9.0		8.5	4.5			5.0		4.0		1.5						8.5	11.5	4.5	7.0	4.0
21-22		10.0		4.5	6.5	5.5	3.0			2.0	5.5	2.0				10.5		2.0		8.0	7.5		8.0	
22-23		10.0		9.0	4.5	3.0	2.0	5.0	6.5		3.0	6.0					9.5			11.0	8.0	6.5	3.0	
23-24		9.5		4.5	2.0				4.0	7.5		4.0								9.0		8.5	4.0	7.0
24-25		9.5		9.0		7.5	10.0		1.5	5.0		2.0	1.5					8.0	2.0	4.0	9.5	1.5	2.0	
25-26	11.5	9.5		4.0		5.0	8.5	4.0		2.5	6.0	6.0						1.5		7.0	10.0		6.0	
26-27		9.0		9.0	6.5	2.0	7.5	8.5	7.0		3.5	4.0					9.0			10.5	10.5	8.0	10.0	
27-28		9.0		4.0	4.5	9.5	6.0		4.5		2.5						11.0		8.0		11.0	5.5	5.0	
28-29	11.0	8.5		9.0	2.5	7.0	4.5	3.0	2.0	5.5		6.0			10.0				1.5	3.0	11.5	3.0	9.0	
29-30		8.5	11.5	4.0		4.0	3.0	7.5		3.0	6.5	4.0						9.5		6.5			3.5	
30-31		8.0		9.0			1.5		7.5		3.5	2.5		2.5			8.5	11.5		9.5			7.5	

	BH	RU	DF	RV	TU
	PEG	SCL	SER	UMA	UMA
MAX	10.0	9.3	11.4	10.1	9.2
MIN	10.8	10.8	13.0	11.2	10.2
RISE	3	2	2	3	3
0- 1		6.0	2.0	8.0	
1- 2	4.0	6.0		6.5	
2- 3	10.5	5.5	6.5	5.0	
3- 4	2.0	5.0	3.5	3.5	
4- 5	9.0	5.0		2.0	3.5
5- 6		4.5			
6- 7	7.0		5.0	10.0	
7- 8			2.0	8.5	
8- 9	5.0			7.0	
9-10			6.5	5.5	4.0
10-11	3.5		4.0	4.0	
11-12	10.0			2.5	
12-13	1.5				
13-14	8.0		5.5	10.5	1.5
14-15			2.5	9.0	
15-16	6.5			7.5	
16-17			7.0	6.0	
17-18	4.5		4.0	4.5	
18-19	11.0			3.0	2.0
19-20	2.5			1.5	
20-21	9.5	11.5	5.5	11.0	
21-22		11.0	2.5	9.5	
22-23	7.5	11.0		8.0	
23-24		10.5	7.0	6.5	2.5
24-25	5.5	10.5	4.0	5.0	
25-26		10.0		3.5	
26-27	4.0	9.5		2.0	
27-28	10.5	9.5	5.5		
28-29	2.0	9.0	2.5	10.0	3.0
29-30	9.0	8.5		8.5	
30-31		8.5	7.0	7.0	