

MAS RR Lyrae Ephemeris for August 2016

all times in U.T.

Page 1

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

MAS RR Lyrae Ephemeris for August 2016

all times in U.T.

Page 2

	VZ	VZ	SS	RV	RZ	VW	YZ	AN	RR	RU	RV	RX	RZ	UU	XX	XZ	DM	RW	XZ	RX	SV	BB	RX
	CNC	CNC	CVN	CAP	CAP	CAP	CAP	CAP	CET	CET	CET	CET	CET	CET	CYG	CYG	CYG	DRA	DRA	ERI	ERI	ERI	FOR
MAX	7.2	7.2	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	11.1
MIN	7.9	7.9	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	12.5
RISE	1	1	2	2	3	2	3	5	2	3	3	3	2	3	1	3	2	2	3	3	5	2	2
0- 1					3.5	4.0	4.5			11.0	9.0	11.0		4.5	10.0	2.5	5.5	9.5	4.0				
1- 2			6.5	9.0	8.5	2.5	6.5	3.0						9.5	5.5		1.5	6.5	3.0				
2- 3	11.0		5.5	6.5	3.5	1.5	2.5		4.5	5.5	6.0				10.5	10.5	7.5	4.0	2.0				8.0
3- 4			4.0	4.0	8.5	7.5	4.5	6.5	7.0	9.5		7.5		5.0	6.0	9.0	4.0			10.0			
4- 5			3.0	1.5	4.0	6.0	7.0		9.5			11.0		10.0	1.5	7.0	10.0	9.0	11.0		9.0	11.5	
5- 6			2.0	10.0	8.5	5.0	2.5				8.5				6.5	5.5	6.5	6.5	10.0				7.5
6- 7				7.5	4.0	3.5	5.0	3.0		8.0		4.5		5.5	2.0	4.0	2.5	3.5	8.5	8.5			
7- 8	11.0			4.5	9.0	2.0	7.0					8.0		11.0	7.0	2.5	8.5	11.5	7.5				
8- 9				2.0	4.0	8.0	3.0	6.5	6.5		11.5				2.5		5.0	8.5	6.5			11.0	
9-10				10.5	9.0	7.0	5.0		9.0	6.5			6.0	6.5	7.5	10.5	11.0	6.0	5.5		9.0		
10-11				8.0	4.0	5.5	7.5			10.5	8.5	5.0	6.5	11.5	3.0	9.0	7.0	3.0	4.0	11.5			
11-12				5.5	9.0	4.0	3.0	3.0				8.5	7.0		8.0	7.0	3.5	11.0	3.0				
12-13			6.5	3.0	4.5	2.5	5.5			4.5			7.5	7.0	3.5	5.5	9.5	8.5	2.0			11.0	11.5
13-14			5.5		9.0	1.5	7.5	6.0	6.0	9.0	11.0		8.0		8.5	4.0	5.5	5.5		10.0			
14-15			4.5	8.5	4.5	7.5	3.0		8.5			5.5	8.5		4.0	2.5	2.0	3.0	11.0		8.5		
15-16	11.5		3.5	6.0	9.5	6.0	5.5	9.5	11.0		8.0	9.0	9.0	8.0	9.0		8.0	11.0	10.0				11.0
16-17			2.5	3.5	4.5	5.0	7.5	2.5		7.0			9.5		4.5	10.5	4.5	8.0	9.0			10.5	
17-18			1.5		9.5	3.5	3.5			11.5			10.0		9.5	9.0	10.5	5.5	8.0				
18-19				9.5	4.5	2.0	5.5	6.0	5.5		11.0	5.5	10.5	8.5	5.0	7.0	6.5	2.5	6.5				11.0
19-20				7.0	9.5	8.0	1.5		8.0	5.5		9.0	11.0		10.5	5.5	3.0	10.5	5.5		8.5		
20-21	11.5			4.5	4.5	7.0	3.5	9.5	10.5	9.5	8.0			4.5	5.5	4.0	9.0	7.5	4.5	11.0		10.5	
21-22				2.0	9.5	5.5	6.0	2.5						9.5	11.0	2.5	5.0	5.0	3.0				10.5
22-23				10.0	5.0	4.0	1.5					6.0			6.0		1.5	2.0	2.0				
23-24			6.5	7.5	9.5	2.5	4.0	6.0	5.0	8.0	10.5	9.5		5.0	1.5	10.5	7.5	10.0		9.5			
24-25			5.5	5.0	5.0	1.5	6.0		7.5					10.0	7.0	9.0	3.5	7.5	11.5		8.5	10.0	10.5
25-26	11.0		4.5	2.5	10.0	7.5	1.5	9.0	10.0		7.5				2.0	7.0	10.0	4.5	10.0				
26-27			3.5	11.0	5.0	6.0	4.0	2.5		6.5		6.5		5.5	7.5	5.5	6.0	2.0	9.0				
27-28			2.5	8.5	10.0	4.5	6.0			10.5		10.0		11.0	3.0	4.0	2.5	10.0	8.0				10.0
28-29			1.5	6.0	5.0	3.5	2.0	5.5	4.5		10.5				8.0	2.5	8.5	7.0	7.0			10.0	
29-30				3.5	10.0	2.0	4.0		7.0	4.5				6.5	3.5		4.5	4.5	5.5		8.5		
30-31	11.0				5.5	8.0	6.5	9.0	9.5	9.0	7.0	7.0		11.5	8.5	10.5	11.0	1.5	4.5	10.5			9.5

MAS RR Lyrae Ephemeris for August 2016

all times in U.T.

Page 3

	SS	RR	GQ	TW	VX	VZ	AR	DL	DY	DY	DY	LS	RR	SS	ST	TV	VY	U	SZ	SZ	SZ	RR	RZ		
	FOR	GEM	GEM	HER	HER	HER	HER	HER	HER	HER	HER	HER	LEO	LEO	LEO	LEO	LMI	LEP	LYN	LYN	LYN	LYR	LYR		
MAX	9.4	10.7	13.6	10.5	9.9	10.7	10.6	11.0	10.2	10.2	10.2	10.8	10.0	10.5	10.8	11.5	13.6	9.8	9.1	9.1	9.1	7.1	10.0		
MIN	10.6	11.9	14.6	11.8	10.4	12.0	11.6	12.4	10.6	10.6	10.6	11.1	11.7	12.0	12.3	12.6	14.6	11.1	9.6	9.6	9.6	8.1	12.0		
RISE	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	1	1	1	2	2		
0- 1		9.0	10.5	10.5			3.0		1.5	5.0		3.5	2.0		3.0					10.0			10.0		
1- 2				5.5	8.0	8.0	1.5	3.5		2.5	6.0	2.0			2.0		2.5	10.0	9.0			2.5	10.5		
2- 3		8.5		10.5	6.0	5.0		8.0	7.0		3.5	5.5							11.0		8.0	6.0	11.0		
3- 4				5.5	4.0	2.5	10.0		4.5			3.5				1.5					1.5	9.0			
4- 5			10.5	10.5	1.5	10.0	8.5	2.5	2.0	5.5		2.0											9.5		
5- 6				5.5		7.0	7.0	6.5		3.0	6.5	5.5	1.5					11.5	8.5	11.5			2.0		
6- 7				10.5		4.5	5.5		7.5		3.5	3.5							2.0				5.0		
7- 8				5.5	6.0	1.5	4.0	1.5	4.5			2.0					10.0				9.5	8.5	1.5		
8- 9			10.5	10.0	4.0	9.0	3.0	5.5	2.0	5.5		5.5					11.0	9.5		9.0		11.5	2.0		
9-10				5.5	2.0	6.5	1.5			3.0	6.5	3.5								8.0	2.0			2.5	
10-11				10.0		3.5			7.5		4.0	2.0								10.0			4.5	3.0	
11-12				5.5			10.0	4.5	5.0		1.5	5.5				3.0		2.5				9.0	7.5	3.5	
12-13			10.5	10.0	6.5	8.5	8.5		2.5	6.0		3.5			1.5			11.0			8.0	11.0	11.0	4.0	
13-14		11.5		5.5	4.5	5.5	7.0			3.5	7.0	2.0									1.5			5.0	
14-15				10.0	2.0	2.5	5.5	3.5			4.5	5.5								9.5			3.5	5.5	
15-16		11.0		5.5		10.5	4.0	8.0	5.5		2.0	3.5							11.5			8.5	7.0	6.0	
16-17			10.0	10.0		7.5	2.5		2.5	6.5		2.0										7.5	2.0	10.0	6.5
17-18		11.0		5.0	6.5	4.5		2.5		3.5	7.5	5.5										9.5		7.0	
18-19				10.0	4.5	1.5		7.0			4.5	3.5					11.0		9.0				3.0	7.5	
19-20		10.5		5.0	2.5	9.5	9.5		5.5		2.0	2.0	2.0					10.5	11.0			8.0	6.0	8.0	
20-21			10.0	10.0		6.5	8.0	1.5	3.0	6.5		5.5											1.5	9.0	8.5
21-22		10.0		5.0		3.5	6.5	6.0		4.0	7.5	3.5					2.0					9.0		9.0	
22-23				10.0	7.0		5.0			1.5	5.0	2.0								8.5	11.0		2.0	9.5	
23-24		10.0		5.0	4.5	8.5	4.0		6.0		2.5	5.5				1.5				1.5			5.0	10.0	
24-25			10.0	10.0	2.5	5.5	2.5	5.0	3.5	7.0		3.5	1.5										9.5	8.5	10.5
25-26		9.5		5.0		3.0				4.5	8.0	2.0		1.5								8.5	11.5	11.0	
26-27				10.0						2.0	5.5	5.5						10.0	8.0	2.0					
27-28		9.5		5.0	7.0	7.5	9.5	4.0	6.5		2.5	3.5							10.0				4.5		
28-29	11.5		9.5	9.5	5.0	4.5	8.0	8.5	3.5	7.5		2.0					11.0					9.0	7.5		
29-30	11.5	9.0		5.0	3.0	2.0	6.5			4.5		5.5									8.0	11.0	11.0		
30-31	11.0			9.5		9.5	5.0	3.0		2.0	5.5	3.5		1.5						1.5				1.5	

	ST	AV	BH	RU	DF	RV	TU
	OPH	PEG	PEG	SCL	SER	UMA	UMA
MAX	11.3	9.9	10.0	9.3	11.4	10.1	9.2
MIN	12.7	10.9	10.8	10.8	13.0	11.2	10.2
RISE	3	2	3	2	2	3	3
0- 1	8.0	10.5		7.5	2.0	8.5	1.5
1- 2	6.0	5.5	4.0	7.5		7.0	4.0
2- 3	3.5	9.5	11.0	7.0	6.5	5.5	
3- 4		4.0	2.0	7.0	3.5	4.0	
4- 5		8.5	9.0	6.5		2.5	
5- 6	7.0	3.0		6.0			1.5
6- 7	4.5	7.0	7.0	6.0	5.0	11.0	
7- 8	2.5	2.0		5.5	2.0	9.0	
8- 9		6.0	5.0	5.0		7.5	
9-10		10.0		5.0	6.5	6.0	
10-11	6.0	5.0	3.5	4.5	3.5	4.5	2.0
11-12	3.5	9.0	10.0	4.0		3.0	
12-13		3.5	1.5			1.5	
13-14		8.0	8.5		5.5	11.5	
14-15	7.0	2.5			2.5	9.5	
15-16	5.0	6.5	6.5			8.0	2.5
16-17	2.5	1.5			7.0	6.5	
17-18		5.5	4.5		4.0	5.0	
18-19		9.5	11.5			3.5	
19-20	6.0	4.5	2.5			2.0	
20-21	3.5	8.5	9.5		5.5		3.0
21-22	1.5	3.0			2.5	10.0	
22-23		7.5	7.5			8.5	
23-24	7.5	2.0			7.0	7.0	
24-25	5.0	6.0	6.0		4.0	5.5	
25-26	2.5	10.0				4.0	3.5
26-27		5.0	4.0	11.5		2.5	
27-28		9.0	10.5	11.0	5.5		
28-29	6.5	4.0	2.0	10.5	2.5	10.5	
29-30	4.0	8.0	9.0	10.5		9.0	
30-31	1.5	2.5		10.0		7.5	4.0