

MAS RR Lyrae Ephemeris for January 2025

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										1.5	9.5			9.5		7.5		9.5	5.5	7.5	3.0	7.5	
1- 2	5.0	3.5	0.0			1.0				5.5	7.5	7.0	7.5	10.0		6.0				1.0	10.0	6.5	
2- 3	2.0		6.0				1.5			0.5	5.5			10.5	7.0		6.5		8.5	2.5	12.0	9.5	2.0
3- 4										4.5	3.0			11.5	8.5		8.0			4.0		12.5	4.0
4- 5		1.0	2.0	0.5	1.0					9.0	1.0	7.5	10.0	12.0	9.5		9.5	9.0	7.5	6.0	3.5	2.0	5.5
5- 6	4.5								0.0	3.5	10.0				10.5		11.0	7.0		1.0	6.0	5.0	7.5
6- 7	1.5	5.0								8.0	8.0				11.5	6.0	12.5			2.5	8.0	8.0	
7- 8			4.5							2.5	6.0	8.0	13.0							4.5	10.5	11.0	2.0
8- 9										7.0	3.5									6.0	12.5		4.0
9-10	4.0	2.5	0.5		0.0		0.0			1.5	1.5		9.5					10.0	12.5	1.0	1.5	3.5	5.5
10-11	1.0							2.5		6.0	10.5	8.0					6.0	7.5		3.0	4.0	6.5	7.0
11-12		6.5						2.0		0.5	8.5					6.0	7.5		11.5	4.5	6.0	9.5	
12-13			2.5			0.0		1.0		5.0	6.0		12.5				9.0			6.0	8.5	12.5	2.0
13-14	3.5							0.0		9.0	4.0	8.5					10.5		10.0	1.5	11.0	2.0	3.5
14-15	0.5	4.0								4.0	2.0		9.0	6.0	8.0		12.0	10.5		3.0		5.5	5.5
15-16			5.0	1.0		1.5				8.0	11.0			7.0	9.0			8.5	9.0	4.5	2.0	8.5	7.0
16-17	5.5									3.0	8.5			7.5	10.0	6.0				6.0	4.5	11.5	
17-18	3.0	1.5	1.0						1.0	7.0	6.5		12.0	8.0	11.0				8.0	1.5	6.5		2.0
18-19	0.0						1.0			2.0	4.5			8.5	12.0					3.0	9.0	4.0	3.5
19-20		5.5								6.0	2.5		8.5	9.5			7.0			4.5	11.0	7.0	5.0
20-21	5.0		3.0		1.0					1.0	0.5			10.0			8.5	9.0		6.5		10.0	7.0
21-22	2.5			0.0						5.0	9.0	7.0		10.5		6.0	10.5			1.5	2.5		8.5
22-23		2.5								9.5	7.0		11.5	11.5			12.0		13.0	3.0	5.0	2.5	
23-24			5.0							4.0	5.0			12.0						5.0	7.0	5.5	3.5
24-25	4.5	7.0						2.0	0.5	8.5	3.0	7.5	8.0						11.5	0.0	9.5	8.5	5.0
25-26	2.0	0.0	1.5		0.5			1.0		3.0	0.5				7.5			9.5		1.5	11.5	11.5	6.5
26-27						0.5		0.5		7.5	9.5				8.5	6.0		7.5	10.5	3.5			8.5
27-28		4.0					1.5			2.0	7.5	7.5	11.0		9.5		7.0			5.0	3.0	4.5	
28-29	4.0		3.5							6.5	5.5				10.5		8.5		9.5	0.0	5.5	7.5	3.0
29-30	1.5					1.5				1.0	3.0		7.5		11.5		10.0			2.0	7.5	10.5	5.0
30-31		1.5	0.0							5.5	1.0	8.0					11.5	10.0	8.0	3.5	10.0		6.5

	VZ	KV	SS	YZ	RR	RU	RV	RX	RZ	TY	UU	S	XX	XZ	DM	RW	XZ	RX	SV	BB	RX	SS	RR
	CNC	CNC	CVN	CAP	CET	CET	CET	CET	CET	CET	CET	COM	CYG	CYG	CYG	DRA	DRA	ERI	ERI	ERI	FOR	FOR	GEM
MAX	7.2	11.9	11.2	11.0	9.3	10.8	10.3	11.0	11.2	11.4	11.5	10.9	11.4	9.1	11.2	11.0	9.6	9.2	9.6	10.9	11.1	9.4	10.7
MIN	7.9	13.0	12.5	11.6	10.3	12.1	11.2	11.7	12.4	11.9	12.4	12.1	12.5	10.5	12.7	12.0	10.3	10.1	10.2	11.9	12.5	10.6	11.9
RISE	1	2	2	3	2	3	3	3	2	3	3	3	1	3	2	2	3	3	5	2	2	2	2
0- 1	3.0	9.0	6.0				1.5									0.5	7.5		4.5			8.5	
1- 2	5.0	9.0		0.0		2.0		0.0			0.5	7.0	3.5				11.0		1.5		2.5		3.5
2- 3	6.5	9.0			1.0							11.0				10.0	10.0	1.5					8.0
3- 4	8.0	9.0			3.5		4.5						4.0			7.5	8.5	6.0	4.5	0.5			3.5
4- 5		9.0		0.0		0.0				5.0	1.0	5.5	9.0	2.0	2.0		7.5		4.0	2.0			8.0
5- 6	3.0	9.5					1.0	0.5	0.5	4.5		9.5	4.5	0.5			6.5	0.0		7.5			3.0
6- 7	4.5	9.5	11.5						1.0	3.5			0.0	10.0		9.5	5.5	4.5	1.5				7.5
7- 8	6.5	9.5	10.5		0.5				1.5	3.0	2.0				0.5	7.0	4.0			0.5	1.5		2.5
8- 9	8.0	9.5	9.0		3.0	2.5	4.0		2.0	2.0		8.0	0.5				3.0		4.5	4.0			7.0
9-10		9.5	8.0						1.0	2.5	1.5	12.0			3.0		2.0	3.0		7.0			2.5
10-11	3.0	10.0	7.0				1.0		3.0	1.0	2.5		1.0			9.5	1.0	7.0			1.5		7.0
11-12	4.5	10.0	6.0			1.0			3.5	0.0		6.5		2.0		6.5	11.0		1.0	0.0			2.0
12-13	6.0	10.0	5.0						4.0			10.5	1.5	0.5	1.5		10.0	1.5		3.5			6.5
13-14	8.0	10.0			2.5		3.5	1.5	4.5					10.0			9.0	5.5	4.5	7.0	1.0		1.5
14-15		10.0			5.0				5.0				2.0			9.0	8.0						6.5
15-16	2.5	10.5				3.5	0.5		5.5	5.0		9.0				6.5	6.5						1.5
16-17	4.5	10.5							4.5		13.0	3.0					5.5	4.0	1.0	3.5	1.0		6.0
17-18	6.0	10.5	11.5					1.5	3.5						2.5	1.0	4.5			6.5			1.0
18-19	8.0	10.5	10.5		2.0	2.0	3.5		3.0		7.0	3.5	2.0			8.5	3.5		4.5				5.5
19-20		10.5	9.5		4.5				2.5		11.5		0.5			6.0	2.0	2.5			0.5		0.5
20-21	2.5	10.5	8.5				0.5		1.5			4.0	10.0	1.0			1.0	6.5		3.0	5.0		5.5
21-22	4.5	11.0	7.5			0.5		2.0	1.0	0.5	5.5	9.0				0.5	11.5		1.0	6.5			0.5
22-23	6.0	11.0	6.5						0.0		10.0	4.5				8.5	10.0	1.0			0.0		5.0
23-24	7.5	11.0	5.5		1.5		3.0					9.5				5.5	9.0	5.0	4.5		5.0		0.0
24-25		11.0			4.0					1.0							8.0			3.0		4.0	4.5
25-26	2.5	11.0				3.0		2.5			8.0	0.5	2.0	2.0	0.0	7.0			6.0		4.0		9.0
26-27	4.0	11.5							5.0		12.5		0.5			8.0	5.5	3.5	1.0		4.5	3.5	4.5
27-28	6.0	11.5							4.5	2.0		1.0	10.0				4.5					3.5	9.0
28-29	7.5	11.5			1.0	1.0	3.0		4.0		6.5			0.5		3.5		4.5	2.5		3.0		4.0
29-30		11.5	10.5		3.5			3.0	0.5	3.0		10.5	1.5			10.5	2.5	2.0		6.0	4.0	3.0	8.5
30-31	2.5	11.5	9.5						1.0	2.5	2.5				2.5	7.5	1.0	6.0				2.5	3.5

	GQ	VX	VZ	AR	DL	DY	DY	DY	SZ	UU	DG	DH	GO	RR	SS	ST	TV	WW	AA	VY	U	SZ	SZ
	GEM	HER	HER	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LEO	LEO	LMI	LEP	LYN	LYN
MAX	13.6	9.9	10.7	10.6	11.0	10.2	10.2	10.2	10.6	10.7	11.6	11.4	11.6	10.0	10.5	10.8	11.5	11.0	11.3	13.6	9.8	9.1	9.1
MIN	14.6	10.4	12.0	11.6	12.4	10.6	10.6	10.6	11.7	12.3	12.6	12.6	12.2	11.7	12.0	12.3	12.6	12.0	12.4	14.6	11.1	9.6	9.6
RISE	2	2	2	2	1	1	1	1	2	2	3	2	3	2	2	2	2	3	2	2	2	1	1
0- 1	5.5								6.5	6.5		4.0	12.0		8.0	11.5	8.0	12.0	11.5	9.5	2.0	6.5	0.5
1- 2	9.0				10.5		10.5		8.5	7.5		3.5	3.5	10.5		10.5				10.5	6.0	8.5	2.5
2- 3									10.0	9.0	8.0		10.0	8.5		9.5	8.5	7.5	6.5	12.0		1.5	4.5
3- 4	2.0		9.0						12.0	10.0				6.0	11.0	8.0		12.5	11.0			4.0	6.5
4- 5	5.0					9.5				11.0			8.0	4.0		7.0	9.0	3.0		1.5	3.5	6.0	0.0
5- 6	8.5			10.5			10.5			12.5	8.5				8.0	6.0		8.0	6.5	3.0		8.0	2.0
6- 7				9.0					4.5				5.5	10.0		5.0	9.0	12.5	11.0	4.0		1.0	4.0
7- 8	1.5			7.5					6.0				12.0	8.0				3.0		5.5	1.5	3.0	6.0
8- 9	5.0				13.0	10.0			8.0	3.0	9.0	11.5	3.5	5.5	11.0		9.5	8.0	6.0	6.5	5.5	5.5	8.0
9-10	8.5								9.5	4.5	3.0	11.0	10.0	3.0					11.0	8.0		7.5	1.5
10-11			10.0						11.5	5.5		10.5			8.5		10.0	3.5		9.5		0.5	3.5
11-12	1.5	9.5			12.0					6.5	9.5	10.0	8.0	9.5		11.5		8.5	6.0	10.5	3.0	2.5	5.5
12-13	5.0					10.0				7.5	3.5	9.5		7.0	5.5	10.0	10.5		10.5	12.0	7.0	4.5	7.5
13-14	8.5			10.5					4.0	9.0		9.0	5.5	5.0	11.5	9.0		4.0				7.0	1.0
14-15	11.5		9.5	9.0	11.0				6.0	10.0	9.5	8.5	12.5	2.5		8.0	11.0	9.0	6.0	1.5	1.0	0.0	3.0
15-16	1.5			7.5			9.5		7.5	11.0	4.0	8.0	3.5		8.5	7.0			10.5	3.0	5.0	2.0	5.0
16-17	5.0	9.5				10.5			9.5	12.5		7.5	10.0	9.0		6.0	11.5	4.0		4.0		4.0	7.0
17-18	8.0								11.0		10.0	7.0		6.5	5.5	5.0		9.0	5.5	5.5		6.0	0.5
18-19	11.5										4.0	6.5	8.0	4.5	11.5		12.0		10.5	6.5	2.5	8.5	2.5
19-20	1.5						10.0			3.0		6.0						4.5		8.0	6.5	1.5	4.5
20-21	4.5								3.5	4.5	10.5	5.5	5.5	10.5	9.0		12.5	9.5	5.5	9.0		3.5	6.5
21-22	8.0	9.5	10.5	10.0					5.5	5.5	4.5	5.0	12.5	8.5					10.0	10.5	0.5	5.5	8.5
22-23	11.5			8.5					7.0	6.5		4.0	3.5	6.0	6.0	11.0	13.0	5.0		11.5	4.5	7.5	2.0
23-24	1.0			7.0				10.0	9.0	8.0	11.0	3.5	10.0	4.0	12.0	10.0		10.0	5.5			1.0	4.0
24-25	4.5				12.5				10.5	9.0	5.0	3.0				9.0			10.0	1.5		3.0	6.0
25-26	8.0		9.5						12.5	10.0			8.0	10.0	9.0	8.0	5.5	5.0		3.0	2.0	5.0	8.0
26-27	11.5	10.0					9.5			11.0	11.5			8.0		7.0		10.0	5.0	4.0	6.0	7.0	1.5
27-28	1.0				11.5			10.5		12.5	5.5		5.5	5.5	6.0	6.0	6.0		10.0	5.5		0.5	3.5
28-29	4.5			11.0					5.0				12.5	3.0	12.0	5.0		5.5		6.5		2.5	5.5
29-30	8.0			10.0					7.0		12.0		3.5				6.5	10.5	5.0	8.0	4.0	4.5	7.5
30-31	11.0			8.5	10.5		10.0		8.5	3.0	6.0		10.0	9.5	9.5				10.0	9.0		6.5	1.0

	SZ	RR	RZ	AV	BH	RU	DF	RV	TU
	LYN	LYR	LYR	PEG	PEG	SCL	SER	UMA	UMA
MAX	9.1	7.1	10.0	9.9	10.0	9.3	11.4	10.1	9.2
MIN	9.6	8.1	12.0	10.9	10.8	10.8	13.0	11.2	10.2
RISE	1	2	2	2	3	2	2	3	3
0- 1	3.5			3.0					
1- 2	5.5				0.0			11.0	
2- 3	7.5			1.5			9.0	9.5	6.0
3- 4	1.0							8.0	8.5
4- 5	3.0			0.5				6.5	11.5
5- 6	5.0						10.5	5.0	
6- 7	7.0	12.5			3.5			3.5	
7- 8	0.5								6.0
8- 9	2.5				1.5				9.0
9-10	4.5			2.5			9.0	10.0	11.5
10-11	6.5	12.0						8.5	
11-12	8.5	1.5		1.0				7.0	4.0
12-13	2.0						10.5	5.5	6.5
13-14	4.0							4.0	9.5
14-15	6.0	11.0							12.0
15-16	8.0	0.5			2.5				
16-17	1.5						9.0	10.5	4.5
17-18	3.5				1.0			9.0	7.0
18-19	5.5			2.0				7.5	10.0
19-20	7.5		10.5					6.0	12.5
20-21	1.0		11.0	0.5				4.5	
21-22	3.0		12.0						5.0
22-23	5.0		0.0						7.5
23-24	7.0	13.0					9.0	11.0	10.5
24-25	0.0				2.0	2.0		9.5	
25-26	2.5			2.5		1.5		8.0	
26-27	4.5				0.0	1.5		6.5	5.5
27-28	6.5	12.0		1.5		1.0		5.0	8.0
28-29	8.5	1.5				0.5		3.5	11.0
29-30	1.5			0.0		0.5			
30-31	4.0					0.0	9.0		