

MAS Eclipsing Binary Ephemeris for September 2024

all times in U.T.

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	RT	TW	UU	WZ	XZ	AB	AB	AD	AD	BD	BX	DS	QX	QX	RY	CX	CZ	EK	EK	XZ	KO	KP	OO
	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AQR	AQR	AQR	AQR	AQR	AQL	AQL	AQL	AQL
MAX	9.3	8.8	11.2	11.6	10.0	9.3	9.3	11.1	11.1	11.3	8.6	10.8	11.3	11.3	8.8	10.7	10.3	10.8	10.8	9.3	8.3	9.7	9.2
MIN	10.2	11.0	14.1	12.6	13.0	10.2	10.2	11.6	11.6	11.7	9.5	11.4	11.6	11.6	10.1	12.0	11.2	11.3	11.3	11.2	9.3	10.5	10.1
DUR	3	11	8	4	3	3	3	4	4	3	4	4	3	3	5	3	3	3	3	7	5	4	3
TOT		2																					
							(S)		(S)					(S)					(S)				
0- 1			4.0	3.0	5.0	1.0	5.0		5.0	9.5	11.5		5.0				8.5	5.0					5.0
1- 2	4.0					0.5	4.5		4.5	7.5	2.5			6.0		2.0	5.5	10.0	3.0				5.5
2- 3	10.5			5.5		0.5	4.5		4.5	6.0	7.5		6.5	1.5		4.5	2.0		8.0				6.0
3- 4	1.5	5.0	3.5			0.5	4.5		4.0	4.0			2.5	7.5		7.0		6.5			1.5		6.0
4- 5	7.5			7.5	6.5		4.5		3.5	2.5	3.5	1.5	8.0	3.0		10.0			4.5				6.5
5- 6							4.5		3.5	0.5	9.0	2.0	4.0	8.5				2.5	10.0				7.0
6- 7	5.0		3.0	9.5			4.0		3.0	10.0		2.0	9.5	4.5		2.0	9.5	8.0					7.0
7- 8	11.0	8.0		2.0			4.0		2.5	8.0	4.5	2.5	5.0			4.5	6.0		6.0	2.0			7.5
8- 9	2.0			11.5	8.0	8.0	4.0		2.5	6.5	10.0	2.5		6.0		7.5	3.0	4.0					8.0
9-10	8.5		2.0	4.5		8.0	4.0		2.0	4.5		3.0	6.5	1.5		10.0		9.5	2.0	5.0			8.0
10-11						7.5	4.0		1.5	3.0	6.0	3.0	2.5	7.5					7.5				
11-12	5.5	11.0		6.5	1.5	7.5	3.5		1.5	1.0	11.0	3.5	8.0	3.0		2.0		5.5					
12-13	12.0		1.5		10.0	7.5	3.5		1.0	10.5	2.0	3.5	4.0	9.0		4.5		11.0	3.5				
13-14	3.0			8.5		7.5	3.5		0.5	8.5	7.0	4.0	9.5	4.5		7.5	7.0		9.0			4.0	
14-15	9.0			1.0		7.5	3.5			6.5		4.0	5.5		8.0	10.0	4.0	7.0					
15-16			1.0	10.5	3.0	7.0	3.0	12.0		5.0	3.0	4.5		6.0					5.0				
16-17	6.5			3.0	11.5	7.0	3.0	11.5		3.0	8.5	4.5	7.0	2.0	7.5	2.0		3.0	10.5				
17-18						7.0	3.0	11.0		1.5		5.0	2.5	7.5		5.0		8.5					
18-19	3.5			5.5		7.0	3.0	11.0		10.5	4.0	5.0	8.5	3.5	6.5	7.5			6.5		4.5		
19-20	10.0		12.0		5.0	7.0	3.0	10.5		9.0	9.5	5.5	4.0	9.0		10.0	8.0	4.5					
20-21	1.0			7.5		6.5	2.5	10.0		7.0		5.5	10.0	5.0	6.0		5.0	10.0	2.5				
21-22	7.0					6.5	2.5	10.0		5.5	5.5	6.0	5.5			2.0			8.0		1.0		
22-23			11.0	9.5		6.5	2.5	9.5		3.5	10.5	6.0		6.5	5.0	5.0		6.0		1.5			
23-24	4.5			2.0	6.5	6.5	2.5	9.5		2.0		6.5	7.0	2.0		7.5			4.5		6.5	0.5	
24-25	10.5			11.5		6.5	2.5	9.0			6.5	6.5	3.0	8.0	4.0	10.5		2.5	9.5	4.5			1.0
25-26	1.5		10.5	4.5		6.0	2.0	8.5		9.5	12.0	7.0	8.5	3.5			9.0	8.0					1.0
26-27	8.0					6.0	2.0	8.5		7.5	2.5	7.0	4.5	9.0	3.5	2.5	5.5		6.0				1.5
27-28				6.5	8.5	6.0	2.0	8.0		6.0	8.0	7.5		5.0		5.0	2.5	4.0					2.0
28-29	5.0		10.0			6.0	2.0	7.5		4.0		7.5	5.5		2.5	7.5		9.5	2.0				2.0
29-30	11.5			8.5		6.0	2.0	7.5		2.5	4.0	8.0	1.5	6.5		10.5		7.5					2.5

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	OO	V342	V343	V346	RX	SS	SS	RY	SX	TT	WW	WW	AP	AP	AR	AR	CL	EM	EP	HP	HP	IM	V459
	AQL	AQL	AQL	AQL	ARI	ARI	ARI	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR
MAX	9.2	9.0	10.6	9.0	9.4	10.1	10.1	11.7	8.2	8.7	5.7	5.7	10.9	10.9	6.0	6.0	11.7	11.0	10.8	10.8	10.8	7.9	7.7
MIN	10.1	12.5	12.3	10.4	9.9	11.1	11.1	14.0	9.0	9.7	6.4	6.4	11.4	11.4	6.7	6.7	13.2	11.9	11.3	11.5	11.5	8.5	8.1
DUR	3	7	4	4	4	3	3	6	4	5	5	5	4	4	5	5	4	4	3	3	3	4	4
TOT		3																					
	(S)					(S)					(S)		(S)		(S)					(S)			
0- 1					9.5	4.5							9.5					6.0	6.5				
1- 2		2.5			5.0			8.0							5.5				11.0	7.5		4.5	
2- 3						5.5							9.5									10.5	
3- 4					5.5		6.0	10.5		9.5					7.5						11.0		
4- 5					6.5		6.0						9.5			6.0		10.0					
5- 6	1.0		6.0			6.5			4.5						9.0		12.0						
6- 7	1.0			2.0		6.5			9.5	10.0											7.0	4.5	
7- 8	1.5		2.5	4.5	7.0										10.5				8.5			10.5	
8- 9	1.5			7.0	2.5	7.5					10.5	9.0								10.5			7.5
9-10	2.0				8.0	3.0											5.5	8.5					9.0
10-11	2.5				3.5	8.0								9.0			11.5		7.5				10.5
11-12	2.5	7.0			8.5	3.5		10.0												6.5		4.0	
12-13	3.0				4.0	9.0	10.0	5.5					8.5									10.0	
13-14	3.5				9.0	4.5		10.5				11.5	12.0						6.5		10.0		
14-15	3.5				4.5	9.5								8.5					11.0				
15-16	4.0					5.0			10.0					12.0			10.5						
16-17	4.5		7.5	1.0		5.5							8.5								6.0		
17-18	4.5			3.5	3.0	6.0					6.5		11.5						10.0			10.0	
18-19	5.0	1.5	4.0	6.0	3.5	6.0		7.0						8.0			11.0			9.5			
19-20	5.5				4.5		6.5		12.0	10.0													
20-21	5.5				5.0	7.0								8.0			10.0	7.0	9.0				
21-22	6.0				6.0		7.0							11.5									
22-23	6.5				6.5	7.5	2.5				8.0									5.5			9.5
23-24	6.5				7.0	3.0	8.0	7.5		10.0										7.5		9.0	
24-25	7.0				8.0	8.5	3.5		8.0					7.5									
25-26	7.5				8.5	4.0	8.5							11.0			9.5						8.0
26-27	7.5				9.5	9.0	4.0							7.5						6.5	5.0		9.5
27-28	8.0			2.5	10.0	4.5	9.5		10.0	9.0				11.0						11.0		9.5	11.0
28-29		6.0		5.0	11.0	9.5	5.0							7.5						8.5			
29-30			5.5	7.5	11.5	5.0								10.5				9.5					

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	V459	SS	SS	SS	TU	TU	TY	TY	TZ	TZ	VW	VW	ZZ	AD	AD	44	44	Y	SV	AL	AN	CD	CD
	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CAM	CAM	CAM	CAM	CAM
MAX	7.7	10.3	10.3	10.3	11.7	11.7	11.8	11.8	10.6	10.6	10.5	10.5	6.8	9.8	9.8	4.7	4.7	10.6	8.6	10.5	9.7	11.6	11.6
MIN	8.1	11.0	11.0	11.0	12.7	12.7	12.3	12.3	11.1	11.1	11.0	11.0	7.6	10.4	10.2	4.9	4.8	12.4	9.4	11.3	10.5	11.8	11.8
DUR	4	18	18	18	3	3	3	3	3	3	3	3	5	4	4	3	3	6	3	5	8	5	5
TOT		6	6	6																			
	(S)	(2)		(3)		(S)		(S)		(S)		(S)			(S)		(S)						(S)
0- 1	8.5					1.5		2.5	2.0				3.0			4.0	1.0		3.0	11.5			4.0
1- 2	10.0					1.0		1.5		3.0						6.0	2.5		7.5			7.5	
2- 3	11.5							4.0		4.0		1.0				1.0	4.5		12.0			2.0	11.0
3- 4					3.5		3.0		1.5	5.0	1.5					3.0	6.0		2.0	3.5			5.5
4- 5					2.5		2.0			2.0	2.0					4.5	1.5		6.5	11.0		9.0	
5- 6					2.0		0.5	4.5	3.0				3.0	1.0			3.0		11.0			3.5	
6- 7					1.5			3.5	0.5	4.0					1.5	1.5	4.5		1.0				7.0
7- 8					0.5			2.0	5.0	1.5				2.5		3.0		3.0	5.5	3.0		10.5	1.0
8- 9								4.5	1.0	2.5		0.5			3.5	5.0	1.5		10.0	11.0		4.5	
9-10			1.5	4.5		3.5	3.5			3.5		1.5					3.5						8.0
10-11						2.5	2.5		4.5	1.0		2.0	3.0			2.0	5.0	10.0	5.0			11.5	2.5
11-12						2.0	1.0		2.0			2.5				3.5			9.5	2.5		6.0	
12-13						1.5		4.0		3.0						5.5	2.0			10.5	11.0		9.5
13-14						0.5		2.5	4.0							0.5	4.0		4.0				4.0
14-15								1.5	1.0	4.5						2.5	5.5		8.5			7.5	
15-16					3.5		4.0			2.0	1.0		2.5			4.0	1.0			2.0		2.0	11.0
16-17	7.0				2.5		3.0		3.0		2.0					5.5	2.5		3.0	10.0			5.5
17-18	8.5				2.0		2.0			4.0	2.5					1.0	4.0	1.0	7.5			9.0	
18-19	10.0				1.5		0.5	4.5	5.0	1.5						2.5	6.0					3.0	
19-20	11.5				0.5			3.5	2.5							4.5	1.0		2.5	2.0			6.5
20-21								2.0		3.5			2.5				3.0	8.0	7.0	9.5		10.0	1.0
21-22						3.5	5.0	1.0	4.5	1.0		1.0				1.5	4.5		11.0			4.5	
22-23						2.5	3.5		1.5	5.5		1.5				3.0			1.5				8.0
23-24						2.0	2.5			2.5		2.0				5.0	1.5		6.0	1.5		11.5	2.5
24-25		3.5				1.5	1.5		3.5			3.0					3.5		10.5	9.5		6.0	
25-26						0.5		4.0	1.0	4.5			2.0			2.0	5.0		0.5				9.5
26-27								3.0		2.0						3.5			5.0				3.5
27-28					3.5			1.5	3.0		0.5					5.5	2.0		9.5	1.0		7.0	
28-29					2.5		4.5			4.0	1.5					0.5	4.0			9.0		1.5	10.5
29-30					2.0		3.0		5.0	1.5	2.0					2.5	5.5		4.5				5.0

	R	RT	SX	TU	TZ	XZ	YY	AC	AK	AM	RW	TY	RZ	TV	TW	ZZ	AB	CW	CW	DZ	IR	IS	IT
	CMA	CMA	CMA	CMA	CMA	CMI	CMI	CMI	CMI	CMI	CAP	CAP	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
MAX	6.2	11.4	10.3	9.7	9.8	9.7	8.5	11.0	10.1	10.0	9.8	10.5	6.4	7.3	8.3	10.7	10.2	11.8	11.8	11.6	10.8	11.6	11.0
MIN	6.8	12.9	11.4	10.7	10.5	10.2	9.1	11.5	11.5	10.7	10.8	11.6	7.8	8.4	8.9	11.1	12.2	12.5	12.5	12.3	12.1	12.6	11.8
DUR	4	5	4	4	4	3	4	3	4	5	5	4	4	4	5	4	4	3	3	4	4	5	5
TOT																							
					(S)															(S)			
0- 1							10.5											4.5	0.5		5.0		
1- 2						10.5												3.5	7.0				
2- 3													1.0	9.0	3.5			2.5	6.0	7.0	6.0		
3- 4									9.0				6.0			1.5	7.0	1.5	5.0	2.0			
4- 5				10.5				12.0			6.0		10.5	4.5		7.5			4.0		7.0		
5- 6						11.5		9.0				4.5						7.0	3.0	10.5			
6- 7														10.0			0.5	6.0	2.0	5.0	8.0	8.0	
7- 8																	9.5	5.0	1.0				
8- 9	12.0	11.0							11.5			1.0	0.5			1.0		3.5	7.5		9.0	4.5	11.5
9-10													5.5		7.0	7.0		2.5	6.5	8.5	1.5		
10-11													10.0				3.0	1.5	5.5	3.5	10.0	0.5	
11-12			12.0					10.5			1.0			10.5			12.0	0.5	4.5		2.5		
12-13						10.5	11.0		10.5			7.5			3.5			7.0	3.5	12.0	11.0		9.0
13-14				11.0										6.0				6.0	2.5	6.5	3.5		
14-15																6.0	5.5	5.0	1.5	1.5			
15-16										10.0		4.0	5.0	1.5				4.0			4.5		
16-17	11.0					11.5		9.5	10.0				9.5		10.0			3.0	7.0	10.0			6.5
17-18																		2.0	6.0	5.0	5.5	9.5	
18-19								9.0		11.0							8.0	1.0	5.0				
19-20															6.5	5.5		7.5	3.5		6.5	5.5	
20-21					11.5											11.5		6.5	2.5	8.5			4.0
21-22		9.5							12.0		5.0		4.0				1.5	5.5	1.5	3.0	7.5	2.0	
22-23				11.5								6.5	9.0	7.5	3.5		10.5	4.5	0.5				
23-24						10.0	10.0											3.5	7.0	11.5	8.5		
24-25			11.5					10.5						3.0		5.0		2.5	6.0	6.5	1.0		1.5
25-26									11.0			3.0				11.0	4.0	1.5	5.0	1.5	9.5		
26-27															10.0				4.0		2.0		
27-28						11.5							3.5					7.0	3.0	10.0	10.5		
28-29													8.5					6.0	2.0	4.5	3.0	10.5	
29-30									10.0							6.5	4.5	6.5	5.0	1.0		11.5	

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	MM	OR	OX	OX	PV	PV	V364	V364	V375	V380	U	SU	WW	WZ	WZ	XX	ZZ	CW	CW	DK	DL	DV	EG
	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP
MAX	11.3	11.4	10.1	10.1	10.0	10.0	11.2	11.2	10.1	10.4	6.7	8.8	11.1	11.7	11.7	8.5	9.3	7.6	7.6	12.2	12.4	11.6	9.6
MIN	11.9	12.4	10.9	10.9	10.6	10.6	11.7	11.7	10.9	11.1	9.8	9.8	11.9	11.3	11.1	9.6	10.0	8.0	8.0	14.2	13.2	12.4	10.6
DUR	5	4	5	5	3	3	4	4	5	5	4	4	4	3	3	4	5	5	5	4	5	4	3
TOT											2												
				(S)		(S)		(S)							(S)				(S)				
0- 1			4.0			5.5	3.0				5.0			8.0	3.0							8.0	10.0
1- 2				8.5	2.0					8.0				4.0	9.0							11.5	
2- 3	3.5	2.0						10.5						10.0	5.0		2.5	2.0					1.5
3- 4	7.0	8.0					5.0		11.0			11.5		6.0	1.0			11.0			6.5		3.5
4- 5	11.0									1.5		9.0		2.0	7.0		6.0						5.5
5- 6			3.5			11.5				10.0	5.0	7.0		8.0	3.0								8.0
6- 7				8.0	8.0		7.0		10.0			4.5		4.0	9.0	5.0	9.5	4.5				3.5	10.0
7- 8		1.5				5.5		1.5				2.0	8.5		5.0								7.0
8- 9		7.5			2.0					3.0				6.0	1.0						3.5	11.0	1.0
9-10	2.5						9.5		8.5	11.5				2.5	7.5								3.5
10-11	6.0		3.0					4.0			4.5			8.5	3.5			6.5	11.5				5.5
11-12	10.0			7.5										4.5	9.5					11.5	10.0		7.5
12-13		1.0				11.5	11.5		7.0	5.0		12.0			5.5					11.0			9.5
13-14		7.0			8.0			6.0				9.5		6.5	1.5	5.5				10.5	1.0	2.5	12.0
14-15						5.5						7.0		2.5	7.5			9.0		10.5		6.5	1.0
15-16			2.5		2.0				6.0		4.0	4.5		8.5	3.5					10.0		10.5	3.0
16-17	1.0			7.0				8.0		6.5		2.5		4.5	9.5					9.5	7.5		5.0
17-18	5.0	0.5					2.5							0.5	5.5		2.5	2.5		9.5			7.5
18-19	8.5	6.5							4.5					6.5	1.5				11.0	9.0			9.5
19-20						11.5		10.0						2.5	7.5				6.0			8.5	11.5
20-21			2.0		8.0		4.5			8.5	4.0			9.0	3.5	5.5				8.5		2.0	0.5
21-22				6.5		5.5			3.5				3.5	5.0	10.0		9.5		4.5	8.0	4.5	6.0	3.0
22-23					2.0							10.0		1.0	6.0					7.5		9.5	5.0
23-24		6.0					6.5			1.5		7.5		7.0	2.0					7.5			7.0
24-25	3.5							1.0	2.0	10.0		5.0		3.0	8.0					7.0	11.0		9.5
25-26	7.5		1.5								3.5	2.5		9.0	4.0			7.0		6.5			11.5
26-27	11.5			5.5		11.5	8.5							5.0	10.0					6.5	2.0		
27-28					8.0			3.0	1.0	3.0				1.0	6.0	6.0				6.0		1.5	2.5
28-29		5.5				5.5				11.5				7.0	2.0					5.5		5.0	5.0
29-30		11.5			2.0		10.5							3.0	8.0			9.0	5.5	8.5	9.0	7.0	

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	EK	GK	SS	TT	TW	TW	TX	RW	RW	RZ	RZ	SS	SS	CC	CC	U	RW	TW	Y	SW	WW	ZZ	AE
	CEP	CEP	CET	CET	CET	CET	CET	COM	COM	COM	COM	COM	COM	COM	COM	CRB	CRB	CRB	CYG	CYG	CYG	CYG	CYG
MAX	8.2	6.9	9.4	10.8	10.4	10.4	10.9	11.0	11.0	10.0	10.0	10.9	10.9	11.0	11.0	7.6	10.1	10.5	7.0	9.3	9.9	10.7	11.8
MIN	9.5	7.4	13.0	11.3	11.2	11.2	11.5	11.6	11.6	10.7	10.7	11.5	11.5	11.9	11.9	8.8	10.6	11.3	7.6	11.8	13.2	12.0	12.8
DUR	6	4	5	3	3	3	4	3	3	3	3	4	4	2	2	5	4	4	6	5	5	4	4
TOT			2				1													2			
						(S)		(S)		(S)		(S)		(S)									
0- 1				7.5		6.5		0.5														6.0	1.5
1- 2				6.5		5.5													7.0				0.5
2- 3		11.0	11.5	6.0			8.5		1.0			1.0		1.0		1.5	2.5				6.0	3.5	
3- 4		9.5		5.5	7.0								1.5		1.0			4.5		7.0		9.5	
4- 5		8.0		4.5	5.5			1.5		0.5				1.0					7.0			0.5	
5- 6		6.5	11.0	4.0			7.5			1.0					0.5							7.0	
6- 7		5.0				7.0			2.0	1.5								3.0					
7- 8	3.5	3.5				6.0			0.5								4.5		7.0			4.0	
8- 9		2.0	10.5			5.0	6.5															10.0	
9-10					7.5			1.0				1.0							2.0			1.5	
10-11					6.0		12.0										2.5		7.0			7.5	
11-12			9.5	11.5	5.0		5.5		1.5														
12-13				11.0																10.5	4.5	4.5	
13-14				10.5		6.5	11.0											5.0	6.5			11.0	
14-15			9.0	9.5		5.0	5.0	0.5														2.0	
15-16				9.0							0.5		1.0				4.5					8.0	
16-17				8.5	6.5		10.0		1.0		1.0	1.5						3.5	6.5				
17-18		10.5	8.5	7.5	5.5		4.0				1.5			1.5								5.5	
18-19		9.0		7.0				1.5										2.0					
19-20		7.5		6.0		7.0	9.0							1.0					2.0	6.5		2.5	10.5
20-21	10.5	6.0	8.0	5.5		5.5									1.0							9.0	9.5
21-22		4.5		5.0				0.5			0.5			0.5									9.0
22-23		3.0		4.0	7.0		8.5						1.5						1.0	6.5	3.5	6.0	8.0
23-24		1.5	7.0		6.0			1.0									4.0	5.0					7.5
24-25					5.0																	3.5	7.0
25-26						7.5	7.5		1.5										6.5			9.5	6.0
26-27			6.5			6.0				0.5							2.0	3.5		4.0		0.5	5.5
27-28						5.0				1.0												7.0	4.5
28-29							6.5	1.0		1.5		1.0							6.0				4.0
29-30	7.0		6.0	11.0	6.5								1.5					2.5				4.0	3.0

	BR	CG	DK	KR	KV	V346	V387	V388	V401	V456	V466	V466	V477	V477	V548	V704	1034	W	TT	TY	YY	FZ	Z
	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA
MAX	9.4	11.0	10.3	9.2	11.5	11.8	11.5	9.7	10.8	10.8	10.8	10.8	8.3	8.3	8.9	13.8	9.6	9.4	10.6	9.6	11.0	10.2	10.8
MIN	10.5	11.8	10.8	10.0	12.6	13.6	12.3	10.3	11.6	11.9	11.6	11.6	9.2	8.7	9.7	14.6	10.6	12.7	12.5	10.8	12.0	11.3	13.6
DUR	4	3	4	4	5	5	3	3	4	3	4	4	4	4	5	4	4	7	5	4	4	3	4
TOT																		2					
												(S)		(S)									
0- 1		1.0	6.5	1.0		8.0	4.5	6.5	8.0				6.5			6.0				9.0		2.0	1.5
1- 2		7.5	5.0				11.0	3.0					4.5		2.0	9.0					9.0		10.0
2- 3			3.5				2.5		2.0												4.0		
3- 4	7.5	5.0	2.0			1.5	9.0		6.0		6.5		8.0			2.5						5.0	
4- 5			0.5	6.5			0.5									5.5							3.5
5- 6		2.5	10.5	2.5			7.5			8.5		8.5				9.0				3.0	8.0		12.0
6- 7		8.5	9.0					6.5	4.0	6.0	1.5									8.0	3.0	8.0	
7- 8	7.5		7.5				5.5	3.5	8.0	3.5			7.5			2.0						3.0	
8- 9		6.0	6.5							0.5		3.5		0.5	7.0	5.5							5.0
9-10			5.0	8.0			3.5		1.5							9.0						7.0	
10-11		3.5	3.5	4.5			10.5		5.5		5.5			9.0	2.5							2.0	6.0
11-12	7.5	10.0	2.0	0.5		7.0	1.5									2.0				2.0		1.0	
12-13		1.0	0.5		7.0		8.5	7.0				7.5				5.5				7.0			7.0
13-14		7.0	10.5					3.5	3.5	9.0						9.0						6.5	
14-15			9.0			1.0	6.5		7.5	6.5			8.5									1.5	4.0
15-16	7.5	4.5	8.0	6.0	3.0					3.5		2.5		1.5		2.0			7.0				
16-17			6.5	2.5			4.5		1.5	1.0						5.5							8.5
17-18		2.0	5.0						5.5		4.5				8.0	8.5					1.0	5.5	7.5
18-19		8.5	3.5				3.0	7.5										8.0	3.5	5.5		2.0	
19-20	7.5		2.0				9.5	4.0					6.5	1.5	3.0	2.0							1.5
20-21		6.0	0.5	7.5			1.0	0.5	3.5							5.0							10.0
21-22			10.5	4.0				7.5		7.5	9.5	8.5		9.5		8.5			0.5		4.5	5.5	
22-23		3.5	9.0			6.5				7.0		1.5		2.5		12.0							
23-24	7.5	9.5	8.0				6.0		1.5	4.0						1.5		3.5					3.5
24-25		0.5	6.5					7.5	5.5	1.5	3.5					5.0				4.5	9.0	8.5	12.0
25-26		7.0	5.0	9.5			4.0	4.0								8.5			9.0	4.0	3.5		
26-27			3.5	5.5		10.5	1.0					5.5	2.5		8.5	12.0	9.0						
27-28	7.5	4.5	2.0	2.0			2.0		3.5							1.5	8.5						5.0
28-29		11.0	1.0				9.0		7.0		7.5				4.0	5.0	8.0				8.0	6.5	
29-30		2.0	10.5		8.0					10.0				3.5		8.5	7.5				3.0	1.5	

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	RZ	TW	UZ	UZ	AI	BH	S	TZ	YY	YY	RW	SX	TX	WW	AF	AL	Z	RX	SZ	TT	TU	UX	CC
	DRA	DRA	DRA	DRA	DRA	DRA	EQU	ERI	ERI	ERI	GEM	GEM	GEM	GEM	GEM	GEM	HER	HER	HER	HER	HER	HER	HER
MAX	10.0	7.8	9.9	9.9	7.2	8.0	8.0	9.8	8.4	8.4	9.6	10.8	10.0	9.8	10.2	9.3	7.3	7.1	10.2	9.7	10.6	8.9	9.5
MIN	10.9	9.5	10.7	10.7	8.2	8.6	10.0	12.6	9.1	9.1	11.6	11.7	11.9	10.5	11.3	10.0	8.2	7.7	12.0	10.4	13.4	9.8	12.8
DUR	3	5	5	5	4	5	5	4	3	3	5	5	6	4	4	4	8	5	4	4	5	5	4
TOT		1						1			1										1		
				(S)					(S)														
0- 1	1.5				2.5	2.5			6.5				11.0						1.0				
1- 2	4.0			11.0	7.5																	5.0	
2- 3	6.5											10.5											2.0
3- 4	9.0		2.0																				
4- 5										7.0				8.0				3.0	3.0	4.5			
5- 6																8.0				2.5			
6- 7	3.0		8.5		2.5		6.0																
7- 8	5.5	8.5			7.0	8.5																	
8- 9	8.0								7.5										5.5		4.0		
9-10	10.0					4.5			7.0					6.5	12.0				1.0				0.5
10-11		4.0																					
11-12	2.0			5.5				10.0			9.0							6.0					
12-13	4.5				2.5																	1.0	
13-14	7.0				7.0		3.0			7.0		9.0						0.5	3.0				
14-15	9.0			12.0						6.5			11.0		11.0					5.5			
15-16														11.0						3.5		3.5	
16-17	1.0		3.0			11.0										11.5				1.5			
17-18	3.5								7.5			11.0							5.5		5.5		
18-19	6.0				2.0	6.5			7.0										1.0			5.5	
19-20	8.0		9.5		7.0										10.5								
20-21	10.5					2.0								10.0					3.5				
21-22		9.0		0.5																			4.0
22-23	2.5									7.5									3.0				
23-24	5.0									6.5						10.5							
24-25	7.0	4.5		7.0	2.0			10.5				7.0			10.0						1.0		
25-26	9.5				6.5									9.0						4.0			
26-27									7.5								6.5		5.5	2.0			
27-28	1.5					8.5			7.0									6.0	1.0				
28-29	4.0											9.5	11.0										2.5
29-30	6.0		4.0			4.0									9.5			1.0				2.0	



	CT	DI	DI	HS	HS	LT	V728	68	WY	WY	AV	DI	SW	SW	VX	AR	AW	CM	CO	CO	DG	GX	MZ
	HER	HER	HER	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC
MAX	9.9	8.4	8.4	8.5	8.5	10.7	10.9	4.7	10.3	10.3	10.2	11.0	9.2	9.2	10.9	7.3	10.6	8.5	10.5	10.5	10.8	10.1	11.2
MIN	11.2	9.1	9.1	9.0	9.0	11.1	11.5	5.4	11.1	11.1	10.6	12.0	10.0	10.0	12.3	8.2	11.3	9.5	11.0	11.0	12.0	10.4	12.1
DUR	4	6	6	4	4	4	3	5	3	3	4	4	3	3	4	6	5	4	5	5	4	6	4
TOT																2							
			(S)		(S)					(S)										(S)			
0- 1	2.5				6.5	2.0	4.0						5.0	1.0		11.0		5.5					
1- 2				1.5		4.0	2.5	1.0					4.0				4.0		8.0				
2- 3			1.5				1.0		10.0				3.0	7.0		10.5	7.5			2.0			
3- 4								2.0		11.5			2.0	6.0			10.5	10.5					
4- 5											11.5		1.5	5.0		10.0			10.0				
5- 6					4.5			3.5						4.0				1.0		4.0			
6- 7							7.0						7.0	3.5		10.0							
7- 8							5.5	4.5	10.0				6.5	2.5					12.0		3.5		
8- 9							4.0			12.0			5.5	1.5	2.0	9.5		6.5		6.0		7.5	
9-10	1.0			6.0			2.5	6.0					4.5	0.5	3.5		4.0		1.0		8.5		
10-11					2.5		1.5						3.5	7.5	5.5	9.0	7.5						
11-12								7.0					2.5	6.5	7.5		10.5	11.5		8.0			2.5
12-13									10.5				1.5	5.5	9.0	8.5				3.0			
13-14					2.5								1.0	4.5	11.0			2.0					
14-15				4.0		4.5	7.0						7.5	4.0		8.0				10.0			6.5
15-16		1.0					6.0				12.0		6.5	3.0					5.0				
16-17	4.5						4.5						6.0	2.0		8.0		7.0					
17-18							3.0	10.5		11.0			5.0	1.0			4.0			12.0			10.5
18-19					7.0		1.5						4.0			7.5	7.5		7.0		4.5		
19-20				1.5									3.0	7.0			10.5	12.0		1.0			
20-21													2.0	6.0		7.0					9.5		
21-22													1.0	5.0				2.5	9.0			0.5	
22-23							7.5		11.0					4.0	1.0	6.5				3.0			
23-24			4.0		5.0		6.0				12.0		7.0	3.5	3.0								
24-25							4.5						6.0	2.5	4.5	6.0		7.5	11.0				
25-26	3.0					0.5	3.5						5.5	1.5	6.5		4.0			5.0			
26-27						2.5	2.0						4.5	0.5	8.5	6.0	7.5						
27-28				6.0		4.5	0.5		11.5				3.5	7.5	10.0		10.5					9.0	
28-29					3.0								2.5	6.5	12.0	5.5				7.0			
29-30													1.5	5.5				3.0	2.0		5.0		

	MZ	Y	VZ	WZ	XZ	RR	SS	RY	UZ	EW	FL	RU	RU	RW	BB	BO	EP	U	SX	V501	V508	V839	1010
	LAC	LEO	LEO	LEO	LEO	LEP	LIB	LYN	LYR	LYR	LYR	MON	MON	MON	MON	MON	MON	OPH	OPH	OPH	OPH	OPH	OPH
MAX	11.2	9.5	10.6	11.3	10.6	10.2	10.4	11.9	9.8	11.2	8.7	10.6	10.6	9.1	10.6	10.8	10.5	5.8	10.5	10.9	10.1	8.8	6.2
MIN	12.1	12.7	11.7	12.0	11.2	10.9	11.3	13.3	11.0	13.6	9.5	11.3	11.3	11.9	11.3	12.1	11.1	6.5	11.2	11.8	10.7	9.4	7.0
DUR	4	5	4	5	3	4	6	4	5	5	4	5	5	5	4	5	5	5	5	4	3	3	4
TOT														1		1							
	(S)													(S)									
0- 1								11.5							11.0						5.0	2.0	
1- 2																					6.0		1.5
2- 3						10.5						10.0										3.0	
3- 4	4.5		11.0			8.5		8.5						9.5						6.5			1.5
4- 5		12.0									0.5					10.5				5.5		4.0	
5- 6										7.5										5.0	1.0		1.0
6- 7	8.0			11.5							5.0									4.0	2.0	5.5	
7- 8										6.0				12.0						3.5	2.5	1.0	0.5
8- 9											9.0	11.0					0.5			2.5	3.5	6.5	
9-10	12.0								7.5	5.0				9.5	10.0					2.0	4.5	2.0	
10-11																				1.0	5.0		
11-12									5.0	3.5				10.5							6.0	3.0	
12-13																11.5							
13-14						10.0		9.5	2.5	2.5								1.5				4.0	
14-15						8.0																	
15-16			10.5							1.5												1.0	5.5
16-17																						2.0	1.0
17-18											2.0											2.5	6.5
18-19					11.5													2.0				3.5	2.0
19-20					11.0						6.5											4.5	
20-21							2.0															5.0	3.0
21-22																						6.0	
22-23	3.0													10.5									4.0
23-24						11.5		10.5										3.0					
24-25						9.5																	5.0
25-26	7.0					7.5																1.0	1.0
26-27		10.0							8.0			9.0										2.0	6.5
27-28			10.5														9.5					2.5	2.0
28-29	10.5								5.5				11.0					3.5				3.5	
29-30															10.5			2.0			4.5	3.0	



	BB	BG	BX	DI	GP	KW	KW	Z	RT	RV	ST	XZ	IQ	IQ	IT	IU	KW	V432	BETA	AE	AE	Y	RV	
	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PHE	PHE	PSC	PSC	
MAX	10.6	10.5	10.9	9.6	10.2	12.1	12.1	9.9	10.6	10.3	9.7	10.6	7.7	7.7	9.9	10.5	10.5	11.0	2.2	7.5	7.5	9.0	11.3	
MIN	11.2	11.8	11.5	10.8	11.0	12.4	12.4	12.4	12.0	12.7	13.2	12.7	8.3	7.9	10.5	11.6	11.5	11.7	3.5	8.2	8.2	12.0	12.0	
DUR	3	4	3	2	4	3	3	6	4	8	5	4	5	5	4	5	4	3	8	2	2	7	3	
TOT		1						2			1													
	(S)						(S)							(S)							(S)			
0- 1	7.0		4.5	4.0	0.5	7.5											2.0	9.0			8.0	8.0		
1- 2			0.5			3.0									8.5			3.5		6.0			10.5	
2- 3	2.5		3.5	7.5			8.5		12.0		2.5			9.0				7.0		8.0				
3- 4	4.5	11.5	6.5	0.5			4.0		8.5				8.0		11.0						6.0		2.5	
4- 5	6.5		3.0	10.5		9.5			4.5					3.0	10.5	7.5		5.0			8.0	10.5	5.0	
5- 6	8.5	10.5	5.5	4.0		5.0						3.5			4.0			8.5		5.5			7.5	
6- 7	2.0		2.0			0.5	10.5					7.0						3.0		7.5			10.0	
7- 8	4.0	9.0	5.0	7.0			6.0				9.5	10.5			12.0						5.5			
8- 9	6.0		1.0				1.5		10.5									11.0				7.5	5.0	2.0
9-10	8.0	8.0	4.0	10.5		7.0			7.0					8.5		11.0	9.5	4.5		5.5			4.5	
10-11	1.5			3.5		2.5			3.5				7.5			7.5	8.0	8.5		7.5			7.5	
11-12	3.5	7.0	3.0				8.0									4.0	6.5	2.5	12.0				10.0	
12-13	5.5		6.0	6.5			3.5								2.5		4.5	6.5			7.0			
13-14	7.5	5.5	2.0			9.0						5.0					3.0						2.0	
14-15	1.0		5.0	10.0		4.5			9.5			8.5					1.5	4.5	9.0	7.0			4.5	
15-16	3.0	4.5	1.0	3.0			10.0		5.5		8.5				4.0	11.0		8.0					7.0	
16-17	5.0		4.0				5.5							8.0		7.5		2.5			7.0		9.5	
17-18	7.0	3.5		6.0			1.0						7.0		4.0			6.0	5.5					
18-19			3.5			6.5									5.5					7.0			1.5	
19-20	2.5	2.5	6.0	9.5		2.0		2.0	11.5									4.0					4.0	
20-21	4.5		2.5	2.5			7.5		8.0									7.5	2.5		6.5		6.5	
21-22	6.5	1.0	5.5		11.5		3.0		4.5			6.0			7.5	11.0					8.5		9.0	
22-23	8.5		1.5	6.0	11.0	8.5		3.0				10.0				7.5	10.5	5.5		6.5			12.0	
23-24	1.5		4.5		10.5	4.0					7.0			7.5		4.0	9.0	9.0		8.5		6.5		
24-25	3.5		0.5	9.0	10.0		9.5					6.5			9.0		7.0	3.5			6.0		3.5	
25-26	6.0		3.5	2.0	9.5		5.0	4.5	10.5	12.0							5.5	7.0			8.5		6.5	
26-27	8.0		6.5		8.5	10.5	0.5		6.5								4.0			6.0			9.0	
27-28	1.0		2.5	5.5	8.0	6.0			3.0	11.0					10.5	11.0	2.0	5.0		8.0		1.0	11.5	
28-29	3.0		5.5		7.5	1.5		6.0				4.0				7.5	0.5	8.5			6.0			
29-30	5.0		1.5	8.5	7.0		7.0			10.5		7.5	12.0			4.0		3.0			8.0		3.5	

all times in U.T.

	UZ	UZ	U	V505	1968	RS	AO	CC	CC	RW	RZ	TY	WY	AC	AQ	CT	EQ	EQ	HU	V	X	RS	RV
	PUP	PUP	SGE	SGR	SGR	SER	SER	SER	SER	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TRI	TRI	TRI
MAX	9.7	9.7	6.4	6.4	12.3	10.8	10.6	11.1	11.1	8.0	10.5	11.5	11.5	10.5	12.0	10.2	10.3	10.3	6.0	10.9	8.9	10.3	11.4
MIN	10.6	10.3	9.1	7.6	13.3	11.5	12.1	11.7	11.7	12.5	11.2	12.0	11.7	12.3	12.9	11.5	11.0	11.0	6.8	11.9	12.0	11.0	12.5
DUR	4	4	6	5	4	4	4	4	4	4	3	2	4	6	5	5	3	3	6	4	4	4	4
TOT			2							1													
		(S)							(S)								(S)						
0- 1					1.0	1.5						10.5					5.5		1.5	4.5		9.5	
1- 2				2.0	4.0			1.0			8.0					12.0	6.0		6.0	4.0		3.5	
2- 3				6.5				1.5									6.5		10.0	3.5			
3- 4		12.0				1.5		2.5		10.0		6.5				12.0	7.5			2.5		10.0	
4- 5								3.0			6.0						8.0		4.0			4.0	
5- 6	11.5				2.5		2.5	4.0					8.5	10.0	12.0	4.5			8.0				
6- 7						1.0				7.5	7.5						5.0					10.5	
7- 8		11.5										10.5				12.0	5.5			2.0		4.5	
8- 9				4.5							9.5						6.0			6.5			
9-10	11.0				1.5	1.0			1.0		5.5					12.0	6.5		10.5			10.5	
10-11			3.5		4.5				1.5						7.0		7.5				11.5	4.5	
11-12		10.5							2.5		7.5					12.0	12.0	8.0		4.5			
12-13						1.0	3.5		3.0			7.0	7.0					4.5		8.5		9.5	11.0
13-14	10.5						0.5		4.0		9.5	9.0				12.0		5.0				5.0	
14-15				2.5	3.0						5.5	11.0	8.5					5.5		3.0		7.5	
15-16		10.0		7.0		0.5										12.0		6.0		7.0		11.5	
16-17						5.5					7.0	10.5			8.5			6.5		11.0		5.0	5.5
17-18								1.0		9.5						12.0		7.0					
18-19					1.5				1.5		9.0							8.0		5.0		3.0	11.5
19-20					4.5	5.0	4.5	2.5						6.5		12.0	4.5		6.0	9.0			6.0
20-21			7.0				1.5	3.0									5.0						
21-22				4.5				4.0			7.0		7.0	7.5	5.5		5.5		7.0	3.5			
22-23						5.0										10.5		6.0		7.5		6.0	
23-24					3.0						8.5		9.0	8.5				6.5		8.5	11.5		
24-25																		7.0			11.5		
25-26						4.5			0.5			10.5	9.5				7.5		10.0	5.5	11.0		6.5
26-27									1.5		6.5	7.0								9.5	10.0		
27-28			1.5	2.5	2.0		2.0		2.5			9.0		10.5	7.5			5.0	11.5		9.5		
28-29					5.0	4.5			3.0	11.5	8.5	11.0						5.5		4.0	9.0		7.0
29-30									4.0					12.0				6.0		8.0	8.0		



	NY	Z	AW	AY	BE	BO	BS	BT	BU	CD	V495	V495
	VIR	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL
MAX	13.3	7.4	10.8	11.0	9.9	10.4	11.0	11.8	10.6	11.5	9.6	9.6
MIN	14.2	9.2	11.9	12.9	11.4	13.3	11.5	12.5	11.4	12.6	10.0	10.0
DUR	1	6	5	4	5	4	3	3	3	4	4	4
TOT												
												(S)
0- 1			6.5				1.0		2.5	2.0		
1- 2			2.0						6.0			
2- 3		5.0		1.0	1.5				9.0	3.0		7.5
3- 4								4.0			1.5	
4- 5			7.0				7.5	7.0	2.0	4.5		
5- 6			2.5		4.0		6.5		5.5			
6- 7	0.5						5.5		8.5	5.5	8.0	
7- 8	1.0	2.5				9.0	4.0					5.5
8- 9	1.0		8.0		6.5		3.0		1.5	7.0		
9-10			3.5	7.0		7.5	2.0		5.0			
10-11							0.5		8.5	8.0		
11-12					9.0	6.5		3.5		0.5	5.5	
12-13		0.5	8.5					7.0	1.0	9.5		3.0
13-14			4.0			5.0			4.5	2.0		
14-15				2.5			7.5		8.0			
15-16						4.0	6.5			3.0		
16-17	0.5		9.5		0.5		5.0		1.0		3.5	
17-18	1.0		5.0			2.5	4.0		4.0	4.5		1.0
18-19	1.0						3.0		7.5			
19-20					3.0	1.0	2.0	3.0		5.5		
20-21							0.5	6.5				7.0
21-22			5.5	8.5					3.5	6.5	1.0	
22-23			1.0		5.5				7.0			
23-24							8.5			8.0		
24-25		7.0					7.5				7.5	
25-26	0.5		6.5		8.0		6.5		3.5	9.0		5.0
26-27	0.5		2.0	4.0			5.0		6.5	1.5		
27-28	1.0						4.0	3.0	10.0			
28-29	1.0						3.0	6.5		3.0		
29-30		5.0	7.0				1.5		3.0		5.5	