

MAS Eclipsing Binary Ephemeris for May 2017

all times in U.T.

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	RT	TW	UU	WZ	XZ	AB	AB	AD	AD	BD	BX	DS	QX	QX	CX	CZ	XZ	KO	KP	OO	OO	V342	V343
	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AQR	AQR	AQL	AQL	AQL	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	10.7	10.3	9.3	8.3	9.7	9.2	9.2	9.0	10.6
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	12.0	11.2	11.2	9.3	10.5	10.1	10.1	12.5	12.3
DUR	3	11	8	4	3	3	3	4	4	3	4	4	3	3	3	3	7	5	4	3	3	7	4
TOT		2																					3
								(S)	(S)					(S)							(S)		
0- 1			8.0	10.5		8.5			6.0	4.5				11.0		6.5	5.5			7.0			
1- 2	7.5					8.5			5.5											7.5			9.0
2- 3						8.5			5.0						8.0	9.5	10.0			8.0		5.0	
3- 4	4.5	10.0				8.0			5.0	10.5	8.0			10.5						8.0			5.0
4- 5	10.5					8.0			4.5	8.5			9.0					5.5	8.5				
5- 6	2.0					8.0			4.0	6.5				9.5						9.0			
6- 7	8.0					8.0				5.0	9.5		10.5							9.0			
7- 8			9.5			8.0				3.0				11.0	8.0					9.5			
8- 9	5.5					7.5								10.5	10.0					10.0			
9-10						7.5				10.5	10.5									10.0			
10-11	2.5			9.5		7.5				9.0				8.5						10.5	4.5		
11-12	9.0					7.5				7.0			9.0							11.0	4.5		
12-13						7.5				5.5				9.5	8.0					11.0	5.0	9.0	10.5
13-14	6.0					7.0				3.5			10.5		11.0						5.5		
14-15			8.5	11.0		7.0	11.0											8.0			5.5		6.5
15-16	3.5					7.0	11.0			11.0						6.0					6.0		
16-17	9.5		10.5			7.0	11.0			9.5											6.5		
17-18						7.0	11.0			7.5	9.0			8.5	8.0		9.0	10.0			6.5		
18-19	7.0					6.5	10.5			6.0			9.0		11.0						7.0		
19-20						6.5	10.5			4.0				10.0							7.5	3.5	
20-21	4.0					6.5	10.5	11.0			10.0		10.5					6.5			7.5		
21-22	10.5					6.5	10.5	11.0													8.0		
22-23	1.5					6.5	10.0	10.5		10.0		8.5			8.5						8.5		
23-24	7.5		9.5			6.0	10.0	10.0		8.0		9.0			11.0			3.5			8.5		
24-25						6.0	10.0	10.0		6.0		9.0		8.5					10.5		9.0		
25-26	5.0					6.0	10.0	9.5		4.5		9.5	9.5								9.5		8.5
26-27	11.0					6.0	10.0	9.0				9.5		10.0							9.5		
27-28	2.0					5.5	9.5	9.0				10.0	11.0		8.5	10.0					10.0		4.5
28-29	8.5						9.5	8.5		10.0	8.5	10.0			11.0						10.0		
29-30				9.5			9.5	8.0		8.5		10.5								4.5	10.5	8.0	
30-31	5.5		8.5				9.5	8.0		6.5		10.5								5.0	11.0		

	V346	SS	SS	RY	SX	WW	WW	AP	AP	AR	AR	CL	EM	EP	HP	HP	IM	V459	V459	SS	SS	SS	TU	
	AQL	ARI	ARI	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	BOO	BOO	BOO	BOO
MAX	9.0	10.1	10.1	11.7	8.2	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	7.7	10.3	10.3	10.3	11.7	
MIN	10.4	11.1	11.1	14.0	9.0	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	8.1	11.0	11.0	11.0	12.7	
DUR	4	3	3	6	4	5	5	4	4	5	5	4	4	3	3	3	4	4	4	18	18	18	3	
TOT																				6	6	6		
			(S)			(S)		(S)		(S)					(S)		(S)		(S)	(2)		(3)		
0- 1								6.0				3.5	3.5										8.0	
1- 2									2.5														7.5	
2- 3									6.0						3.5								7.0	
3- 4		9.5				2.0		2.5															6.0	
4- 5	6.5		10.0					5.5						4.5				2.5			2.0	5.0	5.5	
5- 6	9.0	10.5		4.5					2.0			3.0							4.0				5.0	
6- 7			10.5						5.5	2.5									5.5				4.0	
7- 8		11.0			1.5			2.0						3.5		3.0							3.5	
8- 9						3.0		5.5			4.0												3.0	
9-10									2.0														2.0	
10-11									5.0			2.5		2.0									1.5	
11-12								1.5					1.5										8.5	
12-13								5.0							2.5						1.5		8.0	
13-14					2.5	4.5			1.5												3.0		7.5	
14-15	5.5								5.0												4.5		7.0	
15-16	8.0											2.0											6.0	
16-17	10.5			2.0				4.5															5.5	
17-18			10.0											4.5		2.5							5.0	
18-19		10.0							4.5														4.0	
19-20			10.5		4.0																4.5	7.5	10.5	3.5
20-21		11.0						4.5				1.5	4.5	3.5									3.0	
21-22																						2.5	2.0	
22-23									4.0						2.0							4.0	1.5	
23-24														2.5								5.5	8.5	
24-25								4.0															8.0	
25-26	7.0																						7.5	
26-27	9.5								4.0														6.5	
27-28						1.5																	6.0	
28-29								3.5									5.5						5.5	
29-30																						1.5	5.0	
30-31									3.5					4.5								3.0	4.0	

	AK	AM	AM	RW	TY	RZ	TV	TW	ZZ	AB	CW	CW	DZ	IR	IS	IT	MM	OR	OX	OX	PV	V364	V364
	CMI	CMI	CMI	CAP	CAP	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
MAX	10.1	10.0	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	11.3	11.4	10.1	10.1	10.0	11.2	11.2
MIN	11.5	10.7	10.4	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	11.9	12.4	10.9	10.9	10.6	11.7	11.7
DUR	4	5	6	5	4	4	4	5	4	4	3	3	4	4	5	5	5	4	5	5	3	4	4
TOT																							
			(S)								(S)								(S)			(S)	
0- 1			3.0							2.5	4.5	8.5	8.5	8.5			6.5	1.5		8.0			
1- 2			3.5			3.0		3.5		11.0	3.5	7.5	3.5		10.0		10.0	7.5			2.5	8.5	
2- 3	4.0		4.0			7.5					2.5	6.5		9.5									
3- 4			4.5	9.5			9.0		7.0		1.5	5.5		1.5	6.0								
4- 5				10.0						4.5	8.0	4.5	6.5	10.5								11.0	
5- 6							4.5	10.5			7.0	3.5	1.5	2.5	2.5					7.0			5.5
6- 7	3.0										6.0	2.5						7.0			8.5		
7- 8						2.5					5.0	9.0	10.0	3.5			5.0						
8- 9						7.0		7.0	6.5	7.0	4.0	8.0	5.0				9.0				2.5		7.5
9-10											3.0	7.0		4.5								2.0	
10-11	2.0										2.0	6.0									6.5		
11-12								3.5			8.5	5.0	8.0	5.5				6.5					9.5
12-13							10.5			9.5	7.5	3.5	3.0		11.0								
13-14				8.5	2.0				5.5		6.5	2.5		6.5								8.5	
14-15						6.5	6.0				5.5	1.5			7.5		4.0						
15-16	4.5							10.5		3.0	4.5	8.0	6.5	7.5		9.0	7.5			6.0	2.5	6.0	
16-17							1.5				3.5	7.0			3.5			6.5					
17-18											2.5	6.0		8.5									
18-19								7.0	5.0		9.0	5.0	9.5									8.0	
19-20	3.5								11.0	5.5	8.0	4.0	4.5	9.5		6.5							
20-21						6.0					7.0	3.0		2.0						5.5	9.0		
21-22				9.5		10.5		3.5			6.0	2.0		11.0			2.5	6.0				10.0	
22-23											5.0	8.5	8.0	3.0			6.5				3.0		
23-24	2.5	1.5			8.0		7.5		4.5	8.0	3.5	7.5	2.5			4.0	10.5						
24-25		2.0							10.5		2.5	6.5		4.0									
25-26		2.5					3.0	10.5			1.5	5.5			8.5					5.0			6.5
26-27		3.0				5.5				1.5	8.5	4.5	6.0	5.0				5.5	11.0				
27-28	1.5	3.5				10.0				10.5	7.0	3.5			4.5	1.5					9.0		
28-29		4.0						7.0	4.0		6.0	2.5		6.0			1.5						9.0
29-30		4.5							9.5		5.0	9.0	9.5				5.5				3.0		
30-31				10.5						4.0	4.0	8.0	4.0	7.0			9.0				4.5		

	V375	V380	U	SU	WW	WZ	WZ	XX	ZZ	DL	DV	EG	EK	GK	TT	RW	RW	RZ	RZ	SS	SS	CC	CC
	CAS	CAS	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CET	COM	COM	COM	COM	COM	COM	COM	COM
MAX	10.1	10.4	6.7	8.8	11.1	11.7	11.7	8.5	9.3	12.4	11.6	9.6	8.2	6.9	10.8	11.0	11.0	10.0	10.0	10.9	10.9	11.0	11.0
MIN	10.9	11.1	9.8	9.8	11.9	11.3	11.1	9.6	10.0	13.2	12.4	10.6	9.5	7.4	11.3	11.6	11.6	10.7	10.7	11.5	11.5	11.9	11.9
DUR	5	5	4	4	4	3	3	4	5	5	4	3	6	4	3	3	3	3	3	4	4	2	2
TOT			2																				
							(S)									(S)		(S)		(S)		(S)	
0- 1	8.0		3.0		11.0	10.0	5.0					8.5		7.5		3.5	6.0	8.0	4.0	9.0	4.0	2.0	4.5
1- 2						6.0	11.0			2.5		10.5		6.0		2.0	5.0	8.5	4.5	4.5	9.5	4.5	1.5
2- 3		2.5				2.0	7.0							4.5		6.5	3.5	9.0	4.5	10.5	5.5	1.5	4.0
3- 4	6.5	11.0				8.0	3.0				3.5	1.5		3.0		5.5	2.5	9.0	5.0	6.0		4.0	1.5
4- 5						4.0	9.0			9.0	7.0	4.0				4.0	7.0	1.5	5.5	2.0	7.0	6.5	4.0
5- 6			3.0	10.0		10.0	5.0	6.5			11.0	6.0				3.0	5.5	2.0	6.0	7.5	3.0	3.5	6.5
6- 7	5.5	4.0		7.5		6.0	11.0					8.0				1.5	4.5	2.0	6.0	3.5	8.5	6.0	3.5
7- 8				5.5		2.0	7.0					10.5				6.0	3.5	2.5	6.5	9.5	4.5	3.5	6.0
8- 9				3.0		8.0	3.0						8.0			5.0	2.0	3.0	7.0	5.0	10.0	6.0	3.0
9-10	4.0					4.0	9.0		3.5	6.5		1.5				4.0	6.5	3.5	7.5		6.0	3.0	5.5
10-11		5.5	2.5			10.5	5.5					2.5	3.5			2.5	5.5	3.5	7.5	6.5	1.5	5.5	3.0
11-12						6.5			7.0		6.5	6.0				7.0	4.0	4.0	8.0	2.5	7.5	2.5	5.5
12-13	3.0					2.5	7.5	6.5			10.5	8.0				6.0	3.0	4.5	8.5	8.0	3.0	5.0	2.5
13-14						8.5	3.5		10.5			10.0		10.0		4.5	1.5	5.0	9.0	4.0	9.0	2.5	5.0
14-15		7.5		10.5	6.0	4.5	9.5			3.5				8.5		3.5	6.0	5.0	9.0	9.5	4.5	5.0	2.0
15-16	1.5		2.0	8.0		10.5	5.5							7.0		2.0	5.0	5.5	1.5	5.5	10.5	2.0	4.5
16-17				5.5		6.5	1.5					3.5		5.5		6.5	4.0	6.0	2.0		6.5	4.5	2.0
17-18				3.0		2.5	7.5			10.0	2.0	5.5	4.5	4.0		5.5	2.5	6.5	2.0	7.0	2.0	1.5	4.5
18-19		9.0				8.5	3.5				6.0	7.5		2.5		4.0	7.0	6.5	2.5	3.0	8.0	4.0	1.5
19-20						4.5	9.5	7.0			9.5	10.0				3.0	6.0	7.0	3.0	8.5	3.5	6.5	4.0
20-21			2.0			10.5	5.5									2.0	4.5	7.5	3.5	4.5	9.5	4.0	6.5
21-22		2.5				7.0	2.0									6.5	3.5	7.5	3.5	10.0	5.0	6.5	3.5
22-23	10.5	11.0				3.0	8.0			7.5		3.0				5.0	2.0	8.0	4.0	6.0		3.5	6.0
23-24				10.5	11.0	9.0	4.0					5.5				4.0	6.5	8.5	4.5	2.0	6.5	6.0	3.5
24-25				8.5		5.0	10.0		3.5			7.5				2.5	5.5	9.0	5.0	7.5	2.5	3.0	6.0
25-26	9.0	4.0	1.5	6.0		11.0	6.0				5.0	9.5				1.5	4.0	9.0	5.0	3.5	8.5	5.5	3.0
26-27				3.5		7.0	2.0	7.0	7.0		9.0					6.0	3.0	1.5	5.5	9.0	4.0	3.0	5.5
27-28						3.0	8.0			5.0				11.0		4.5	2.0	2.0	6.0	5.0	10.0	5.5	2.5
28-29	7.5			1.5	9.0	4.0		10.0				3.0		9.5	11.0	3.5	6.5	2.0	6.5	10.5	5.5	2.5	5.0
29-30		5.5				5.0	10.0					5.0		8.0		2.0	5.0	2.5	6.5	6.5	1.5	5.0	2.5
30-31						11.0	6.0			11.0		7.5		6.5		6.5	4.0	3.0	7.0	2.0	7.0	2.0	5.0

	U	RW	TW	W	W	RV	RV	V	Y	SW	WW	ZZ	AE	BR	CG	DK	KR	KV	MY	MY	V346	V387	V388
	CRB	CRB	CRB	CRV	CRV	CRV	CRV	CRT	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG
MAX	7.6	10.1	10.5	10.6	10.6	9.0	9.0	9.5	7.0	9.3	9.9	10.7	11.8	9.4	11.0	10.3	9.2	11.5	8.3	8.3	11.8	11.5	9.7
MIN	8.8	10.6	11.3	11.2	11.2	10.0	10.0	10.2	7.6	11.8	13.2	12.0	12.8	10.5	11.8	10.8	10.0	12.6	9.0	9.0	13.6	12.3	10.3
DUR	5	4	4	4	4	4	4	4	6	5	5	4	4	4	3	4	4	5	4	4	5	3	3
TOT																							
				(S)		(S)			(S)											(S)			
0- 1		5.0	6.5	6.5	2.0	2.0							6.0		5.0				5.5				
1- 2			10.5		6.0		4.5		7.5		10.5	2.5	5.5									5.0	
2- 3		9.0		5.0		8.0						8.5	4.5	5.0		11.0				5.5			
3- 4	3.0	2.5	5.0		4.5	2.0		3.0							9.0	9.5	10.5						
4- 5			9.5	4.0			4.5		7.5			6.0				8.5	6.5		5.5		10.0	10.0	
5- 6		7.0		7.5	3.0	7.5		5.5							6.5	7.0							6.5
6- 7			4.0	2.5	7.0	1.5						3.0		5.0		5.5				5.5		8.0	
7- 8			8.0	6.5	1.5		4.0		7.0			9.5			4.0								
8- 9		4.5			5.5	7.5				2.0					10.0				5.5		8.0	6.0	
9-10			2.5	5.0								6.5					8.5	10.5					
10-11		9.0	6.5		4.0		4.0	3.5	7.0					4.5	7.5		4.5			5.5		4.5	10.0
11-12		2.5	11.0	3.5	8.0	7.0					9.5	4.0				10.0						11.0	6.5
12-13				7.5	2.5			6.0				10.0			5.0	8.5		6.5	6.0				
13-14		6.5	5.5	2.0	6.5		3.5		7.0							7.0							9.0
14-15			9.5	6.0		7.0						7.5		4.5		5.5	10.0			6.0			
15-16		11.0			5.0			1.5							8.5		6.5	3.0					7.5
16-17		4.5	4.0	4.5			3.5		7.0			4.5							6.0				10.5
17-18			8.5		4.0	6.5		4.0		5.5		10.5			6.0							5.5	7.0
18-19		8.5		3.0	7.5							2.0		4.5						6.0			3.5
19-20		2.0	2.5	7.0	2.5		3.0	6.5	7.0			8.0				10.0					7.5		
20-21	9.5		7.0	1.5	6.5	6.5									10.0	8.5	8.0		6.0			10.5	
21-22		6.5		5.5							8.5	5.5				7.0	4.5						
22-23					5.0		3.0	2.0	7.0					4.5	7.5	5.5				6.0		8.5	10.5
23-24		11.0	5.5	4.0		6.0						2.5											7.5
24-25		4.0	10.0	8.0	3.5			4.5				8.5			5.0				6.0			6.5	4.0
25-26				2.5	7.5		2.5		6.5						11.0		10.0						
26-27		8.5	4.5	6.5	2.0	6.0		7.0		9.0		6.0	10.0	4.5			6.0			6.0		4.5	
27-28	7.0	2.0	8.5		6.0		8.5								8.5	10.0							
28-29				5.0			2.0		6.5			3.0	8.5			8.5			6.5				11.0
29-30		6.5	3.0		4.5	5.5		2.5				9.5	8.0		6.0	7.0		7.5				9.5	7.5
30-31			7.0	4.0			8.0						7.0	4.5		5.5				6.5	7.0		4.5

	TX	WW	AF	AL	Z	RX	SZ	TT	TU	UX	CC	CT	DI	DI	HS	HS	LT	V728	WY	WY	AV	DF	DF
	GEM	GEM	GEM	GEM	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	HYA
MAX	10.0	9.8	10.2	9.3	7.3	7.1	10.2	9.7	10.6	8.9	9.5	9.9	8.4	8.4	8.5	8.5	10.7	10.9	10.3	10.3	10.2	11.0	11.0
MIN	11.9	10.5	11.3	10.0	8.2	7.7	12.0	10.4	13.4	9.8	12.8	11.2	9.1	9.1	9.0	9.0	11.1	11.5	11.1	11.1	10.6	11.5	11.5
DUR	6	4	4	4	8	5	4	4	5	5	4	4	6	6	4	4	4	3	3	3	4	4	4
TOT									1														
													(S)		(S)				(S)			(S)	
0- 1						6.5											8.5	8.5			1.5	2.5	
1- 2											5.0					10.5	10.5	7.0				2.5	
2- 3							10.0					8.0		7.5	5.5						3.0	2.5	
3- 4					3.0		5.5			4.0								4.5	2.5			2.0	
4- 5				5.0					2.0			3.0						3.0		4.5	4.0	6.0	2.0
5- 6								10.5										1.5				5.5	2.0
6- 7								8.0	8.5	6.5	9.5					8.5					5.5	5.5	1.5
7- 8					3.0	9.0	8.0	6.0							3.5			10.0				5.5	
8- 9		4.0					3.5	4.0				3.5						8.5	3.0		6.5	5.0	
9-10						4.0		2.0		8.5								7.5		4.5		5.0	
10-11														10.0			3.0	6.0				4.5	
11-12				3.5	2.5		10.0					6.5				6.5	5.0	4.5				4.5	
12-13	1.5						5.5			11.0								7.0	3.0			4.5	
13-14		3.0							3.5		8.0	1.5						9.0	2.0	3.0		4.0	
14-15																	11.0				5.0	4.0	
15-16					2.5			11.0	10.0		2.0		7.0		8.0			10.5			2.5	4.0	
16-17						6.5	7.5	9.0								4.0		9.0				3.5	
17-18			4.5				3.5	7.0		2.5								7.5		1.5	3.5	3.5	
18-19		2.0		2.5				4.5			10.0							6.5	3.5			3.0	
19-20					2.5			2.5								10.5		5.0			5.0	3.0	
20-21							10.0			5.0	6.5	5.0			6.0			3.5				3.0	
21-22							5.5											2.0			6.0	2.5	
22-23			4.0						5.5													2.5	
23-24					2.0	9.5				7.0				10.0			3.0	10.5	3.5			2.0	
24-25																8.5	5.0	9.5				2.0	6.0
25-26				1.5		4.0	7.5							3.5			7.0	8.0				2.0	6.0
26-27	1.5					3.5	9.5			9.5							9.0	6.5				1.5	5.5
27-28			3.5		2.0		7.5				5.0	8.5					11.0	5.0		2.0		1.5	5.5
28-29							5.5							10.0				4.0	4.0		2.0		5.0
29-30						10.0	3.5					3.0				6.5		2.5					5.0
30-31							5.5														3.5		5.0

	DI	DK	SW	SW	VX	AR	AW	CM	CO	CO	DG	GX	Y	UU	UV	VZ	WZ	XY	XZ	AM	T	SS	DELT
	HYA	HYA	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LEO	LEO	LEO	LEO	LEO	LEO	LEO	LEO	LMI	LIB	LIB
MAX	11.0	10.5	9.2	9.2	10.9	7.3	10.6	8.5	10.5	10.5	10.8	10.1	9.5	11.4	9.5	10.6	11.3	9.5	10.6	9.2	10.2	10.4	4.8
MIN	12.0	11.0	10.0	10.0	12.3	8.2	11.3	9.5	11.0	11.0	12.0	10.4	12.7	12.7	10.2	11.7	12.0	9.9	11.2	9.8	12.6	11.3	5.9
DUR	4	4	3	3	4	6	5	4	5	5	4	6	5	4	3	4	5	2	3	3	6	6	7
TOT						2																	

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

	FZ	GU	GU	U	U	TY	UX	AQ	AQ	BB	BB	BG	BX	DI	GP	KW	KW	RT	XZ	IQ	IQ	IT	IU
	ORI	ORI	ORI	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PER	PER	PER	PER	PER	PER
MAX	10.7	12.6	12.6	9.7	9.7	10.5	10.7	10.3	10.3	10.6	10.6	10.5	10.9	9.6	10.2	12.1	12.1	10.6	10.6	7.7	7.7	9.9	10.5
MIN	11.3	13.5	13.5	10.5	10.5	12.6	12.0	13.0	13.0	11.2	11.2	11.8	11.5	10.8	11.0	12.4	12.4	12.0	12.7	8.3	7.9	10.5	11.6
DUR	3	4	4	3	3	6	5	12	12	3	3	4	3	2	4	3	3	4	4	5	5	4	5
TOT								4	4			1											
	(S)		(S)		(S)			(2)			(S)					(S)				(S)			
0- 1	1.5	3.5								7.5			6.0					1.5				10.0	2.5
1- 2		2.0		10.0						9.5			8.5				7.0						
2- 3	1.5				8.5						7.5												
3- 4											9.5		8.0			8.0							
4- 5	1.5		3.5	10.0						7.0			10.5	10.5					3.5				9.5
5- 6			2.0		8.5			7.5	9.5	9.0			7.0				9.0	4.0					
6- 7	1.5									11.0	7.0		10.0						10.5				2.5
7- 8				10.0							9.0		6.0			10.0							
8- 9	1.5	3.5			8.5					6.5	11.0		9.0				5.5					2.0	
9-10		2.0								8.5			5.0	10.0									
10-11	1.5			10.0						10.5			8.0										9.5
11-12					8.5		7.5				8.5		11.0						2.5				
12-13	1.5		3.5								10.5		7.0			7.5							2.5
13-14			2.0	10.0						8.0			10.0										
14-15	1.5				8.5		10.0			10.0			6.5	9.5			8.5						
15-16											7.5		9.0						8.5				
16-17	1.5	3.5		10.0				9.5			9.5	10.5	5.5			9.5							9.5
17-18		2.0			8.5					7.5			8.5			5.0		1.5		10.5			
18-19	1.5									9.5		9.0											2.5
19-20				10.0							7.0		7.5	9.0			10.5						2.5
20-21	1.5		3.5		8.5						9.0	8.0	10.5					11.0					8.5
21-22			2.0							7.0			6.5			7.0				10.0			
22-23	1.5			9.5						9.0		7.0	9.5		11.0			4.0					9.5
23-24					8.0					11.0	6.5		5.5		10.0		8.0				11.0	10.5	
24-25	1.5	3.5									8.5		8.5	8.5	9.5					10.0			2.5
25-26		2.0		9.5							10.5				9.0	9.0					5.0		
26-27	1.5				8.0					8.5			7.5			8.5		9.5		3.5			
27-28										10.5			10.5			8.0		10.0		4.0			
28-29	1.5		3.5	9.5			7.5				8.0		7.0		7.5		5.5	2.5					9.5
29-30			2.0		8.0	8.0					10.0		9.5	8.5	6.5	11.0							
30-31	1.5				11.0					7.5			6.0			6.0	6.5				10.5		2.5

	V	X	RS	RV	W	W	TX	TY	TY	UX	UX	VV	XZ	ZZ	AF	W	RU	VV	AG	AH	AH	AK	AW
	TRI	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMI	UMI	VIR	VIR	VIR	VIR	VIR	VIR
MAX	10.9	8.9	10.3	11.4	9.1	9.1	6.8	11.7	11.7	12.7	12.7	10.1	10.1	9.8	10.8	8.6	10.7	11.7	8.8	9.7	9.7	10.0	10.8
MIN	11.9	12.0	11.0	12.5	9.9	9.9	8.9	12.4	12.4	13.8	13.8	11.0	11.7	11.2	11.6	9.7	11.4	13.5	9.4	10.2	10.2	11.5	11.9
DUR	4	4	4	4	3	3	6	3	3	1	1	3	3	4	8	7	4	4	4	4	4	4	3

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

	AW	AX	AZ	AZ	BH	MS	MS	NY	Z	AW	AY	BE	BO	BS	BT	BU	CD	V495	V495
	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL
MAX	10.8	10.0	11.0	11.0	9.9	9.4	9.4	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	11.9	10.8	11.8	11.8	11.3	9.7	9.7	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	3	4	3	3	4	3	3	1	6	5	4	5	4	3	3	3	4	4	4
TOT	(S)			(S)			(S)												(S)
0- 1	5.0	3.5	8.0	3.5	3.5	2.0	5.5	3.0		11.0				8.0	4.5				
1- 2	6.5		9.0	5.0		8.0	4.0	3.0	10.0	6.5				6.5	8.0	7.0	4.0	10.5	
2- 3	8.0	6.0	2.0	6.0		6.5	2.5	3.5						5.5		10.0			
3- 4	9.5		3.0	7.0	10.0	5.0	8.5	3.5				5.5		4.5			5.5		4.0
4- 5	2.5	8.5	4.0	8.5	6.0	3.5	7.0	3.5			8.0								
5- 6	4.0		5.5	9.5		2.0	5.5	1.5		7.0						6.5	6.5		
6- 7	5.5		6.5	2.5		8.0	4.0	2.0	8.0			8.0				10.0		8.5	10.5
7- 8	7.0	4.0	7.5	3.5		6.5	2.5	2.0						11.0			8.0		
8- 9	8.5		9.0	4.5	8.0	5.0	8.5	2.5						10.0	4.5				
9-10	1.5	6.5	1.5	6.0	3.5	3.5	7.0	2.5		8.0		10.5		9.0	7.5	6.0	9.0		
10-11	3.0		3.0	7.0		2.0	5.5	3.0						7.5	11.0	9.5			
11-12	4.5	9.0	4.0	8.5		8.0	4.0	3.0	6.0					6.5			10.5	6.0	8.0
12-13	6.0	2.0	5.0	9.5	10.0	6.5	2.5	3.5						5.5					
13-14	7.5		6.5	2.0	5.5	5.0	8.5	3.5		8.5				4.0		5.5			
14-15	9.0	4.5	7.5	3.5		3.5	7.0	4.0		4.0						9.0	4.0		
15-16	2.0		9.0	4.5		2.0	5.5	1.5											
16-17	3.5	7.0	1.5	5.5		8.0	4.0	2.0	3.5		9.5				4.0		5.0	4.0	5.5
17-18	5.0		2.5	7.0	7.5	6.5	2.5	2.0		9.5		5.0		11.0	7.5	5.5			
18-19	6.5	9.5	4.0	8.0	3.0	5.0	8.5	2.5		4.5				10.0	11.0	8.5	6.5		
19-20	8.0	2.5	5.0	9.5		3.5	7.0	2.5						8.5				10.5	
20-21	9.5		6.0	2.0		2.0	5.5	3.0				7.5		7.5			7.5		
21-22	2.5	5.0	7.5	3.0	9.5	8.0	4.0	3.0	10.0	5.0				6.5		5.0			
22-23	4.0		8.5	4.5	5.0	6.0	2.5	3.5		5.5				5.5		8.0	9.0		
23-24	5.5	7.5	1.5	5.5		4.5	8.5	3.5				10.0	11.0	4.0					
24-25	7.0		2.5	7.0		3.0	7.0	4.0							3.5		10.0	8.0	10.0
25-26	8.5	10.0	3.5	8.0		1.5	5.5	1.5	11.0			9.5			7.0	4.5			
26-27	10.0	3.0	5.0	9.0	7.0	7.5	4.0	2.0		6.5					10.5	8.0			
27-28	3.0		6.0	2.0	2.5	6.0	2.5	2.0				8.5	11.0		11.0				
28-29	4.5	5.5	7.5	3.0		4.5	8.5	2.5	10.0		11.0			10.0					
29-30	6.0		8.5	4.0		3.0	7.0	2.5				7.0	8.5		4.0	5.0	6.0	7.5	
30-31	7.5	8.5	9.5	5.5	9.0	1.5	5.5	3.0		7.0				7.5		7.5			