



all times in U.T.

	RY	SX	TT	WW	WW	AP	AP	AR	EM	EP	HP	HP	IM	V459	V459	SS	SS	SS	TU	TU	TY	TY	TZ
	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO
MAX	11.7	8.2	8.7	5.7	5.7	10.9	10.9	6.0	11.0	10.8	10.8	10.8	7.9	7.7	7.7	10.3	10.3	10.3	11.7	11.7	11.8	11.8	10.6
MIN	14.0	9.0	9.7	6.4	6.4	11.4	11.4	6.7	11.9	11.3	11.5	11.5	8.5	8.1	8.1	11.0	11.0	11.0	12.7	12.7	12.3	12.3	11.1
DUR	6	4	5	5	5	4	4	5	4	3	3	3	4	4	4	18	18	18	3	3	3	3	3
TOT																6	6	6					
				(S)		(S)		(S)			(S)				(S)	(2)		(3)		(S)		(S)	
0- 1				3.5		3.0									2.0				7.5	3.5	5.0	1.5	
1- 2															3.5				7.0	3.0	4.0		6.0
2- 3		3.0				3.0				3.0									6.5	2.5	3.0	6.5	3.5
3- 4																			5.5	2.0	1.5	5.5	
4- 5						2.5					2.0								5.0			4.5	5.0
5- 6										1.5									4.5		7.0	3.0	2.5
6- 7						2.5													3.5	7.5	6.0	2.0	
7- 8																			3.0	7.0	4.5		4.5
8- 9						2.5													2.5	6.5	3.5	7.5	2.0
9-10											1.5			3.0					1.5	5.5	2.5	6.0	6.5
10-11						2.0								4.5		5.5	8.5			5.0		5.0	4.0
11-12																				4.5	7.5	4.0	
12-13						2.0		2.5											7.5	3.5	6.5	2.5	6.0
13-14						5.5													7.0	3.0	5.5	1.5	3.0
14-15						2.0													6.5	2.5	4.0		
15-16						5.0				3.0									5.5	1.5	3.0	6.5	5.0
16-17							1.5												5.0		2.0	5.5	2.5
17-18						5.0									2.0				4.5			4.5	7.0
18-19						1.5				1.5					3.5			2.0	3.5	7.5	7.0	3.0	4.5
19-20		1.5		2.0		5.0													3.0	7.0	6.0	2.0	2.0
20-21																			2.5	6.0	4.5		6.5
21-22			3.5				4.5												1.5	5.5	3.5	7.5	3.5
22-23																				5.0	2.5	6.0	
23-24						4.5														4.5		5.0	5.5
24-25				3.0															7.5	3.5		4.0	3.0
25-26		3.0	3.5				4.5							1.5		10.5			7.0	3.0	6.5	2.5	
26-27														3.0					6.0	2.5	5.5	1.5	5.0
27-28						4.0		1.5											5.5	1.5	4.0		2.5
28-29										3.0			4.0						5.0		3.0	7.0	7.0
29-30	3.0		3.5	4.0			4.0												4.5		2.0	5.5	4.5
30-31																			3.5	7.5		4.5	1.5

all times in U.T.

	TZ	VW	VW	ZZ	AD	AD	BW	BW	44	44	Y	SV	AL	AN	CD	CD	R	XZ	YY	AC	AK	AM	RW
	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CAM	CAM	CAM	CAM	CAM	CMA	CMI	CMI	CMI	CMI	CMI	CAP
MAX	10.6	10.5	10.5	6.8	9.8	9.8	7.1	7.1	4.7	4.7	10.6	8.6	10.5	9.7	11.6	11.6	6.2	9.7	8.5	11.0	10.1	10.0	9.8
MIN	11.1	11.0	11.0	7.6	10.4	10.2	7.5	7.5	4.9	4.8	12.4	9.4	11.3	10.5	11.8	11.8	6.8	10.2	9.1	11.5	11.5	10.7	10.8
DUR	3	3	3	5	4	4	5	5	3	3	6	3	5	8	5	5	4	3	4	3	4	5	5
TOT																							
	(S)		(S)			(S)		(S)		(S)					(S)								
0- 1	5.0	2.5	6.5						6.0	2.5		8.5				3.5							
1- 2	2.5	3.0	7.0							4.5	4.5		6.5		7.0			3.5					
2- 3	7.0	3.5	7.5						3.0	6.0		3.0				10.5							
3- 4	4.5	4.0		8.0					4.5			7.5				4.5			2.0				
4- 5	1.5	5.0							6.0	3.0						8.0					3.5		
5- 6	6.0	5.5	1.5						1.5	4.5		2.5	6.0		2.5								
6- 7	3.5	6.0	2.0					8.5	3.0	6.5		7.0				6.0				2.0			
7- 8		7.0	2.5						5.0	1.5						9.5							
8- 9	5.5	7.5	3.5	8.0			7.0			3.5		1.5			4.0			2.0			2.5		
9-10	3.0	8.0	4.0			2.0			2.0	5.0		6.0	6.0	11.0		7.5							
10-11			4.5		2.5				3.5			10.5			11.0	2.0							
11-12	5.0		5.5			3.5			5.5	2.0	2.5				5.5		2.0						
12-13	2.0	2.0	6.0		4.5					4.0		5.0				9.0		3.5		4.0	2.0		
13-14	7.0	2.5	6.5	7.5		5.0			2.5	5.5		9.5	5.5			3.0							
14-15	4.0	3.0	7.0		6.0				4.0		10.0				6.5							1.5	
15-16	1.5	4.0	8.0			7.0			5.5	2.5		4.5			10.0			3.0			2.0	7.5	
16-17	6.0	4.5			7.5			8.5		4.0		9.0				4.5						2.5	
17-18	3.5	5.0				8.5			2.5	6.0			5.0		8.0							3.0	
18-19		5.5	1.5	7.5	9.5		7.0		4.5			3.5			2.5							3.5	
19-20	5.5	6.5	2.0			10.0			6.0	3.0		8.0				6.0		2.0		2.5		4.0	
20-21	3.0	7.0	3.0		11.0				1.5	4.5						9.5							
21-22		7.5	3.5						3.0	6.5		2.5	5.0		3.5						3.0		
22-23	4.5		4.0						5.0	1.5		7.0				7.0							
23-24	2.0		5.0	7.0						3.5					10.5	1.5		3.5					
24-25	6.5		5.5						2.0	5.0	8.0	2.0			5.0								
25-26	4.0	2.0	6.0						3.5			6.5	4.5			8.5				4.0	2.0		
26-27	1.5	2.5	7.0					8.5	5.5	2.0		10.5				3.0			1.5				
27-28	6.0	3.5	7.5							4.0					6.5				4.0				
28-29	3.5	4.0	8.0	7.0			7.0		2.5	5.5		5.5			10.0								
29-30		4.5							4.0			10.0	4.0			4.5							
30-31	5.5	5.0							5.5	2.5				11.0	8.0			2.0					

MAS Eclipsing Binary Ephemeris for May 2024

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	TY	RZ	TV	TW	ZZ	AB	CW	CW	DZ	GT	IR	IS	IT	MM	OR	OX	OX	PV	PV	V364	V364	V375	V380
	CAP	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
MAX	10.5	6.4	7.3	8.3	10.7	10.2	11.8	11.8	11.6	11.9	10.8	11.6	11.0	11.3	11.4	10.1	10.1	10.0	10.0	11.2	11.2	10.1	10.4
MIN	11.6	7.8	8.4	8.9	11.1	12.2	12.5	12.5	12.3	12.8	12.1	12.6	11.8	11.9	12.4	10.9	10.9	10.6	10.6	11.7	11.7	10.9	11.1
DUR	4	4	4	5	4	4	3	3	4	5	4	5	5	5	4	5	5	3	3	4	4	5	5
TOT																							
								(S)									(S)		(S)		(S)		
0- 1			7.5				2.5	6.5				10.5									11.0		
1- 2							1.5	5.5	6.5	7.0	9.0											5.0	
2- 3				7.5				4.5				6.5		8.5			9.0		11.0				4.5
3- 4		3.5				6.5	7.0	3.0			10.0							7.0					
4- 5	8.5	8.0			5.0		6.0	2.0	10.0	7.0					6.0				5.0	7.5		4.0	
5- 6				4.0	10.5		5.0				11.0												
6- 7							4.0																6.0
7- 8						9.0	3.0	6.5		6.5							8.5			9.5		2.5	
8- 9							2.0	5.5	8.5														
9-10		2.5	9.0	10.5	4.0			4.5					7.0	5.5						11.0			
10-11		7.5			10.0	2.5	7.5	3.5		6.5	5.0			11.0				7.0				1.5	8.0
11-12							6.5	2.5												5.0			
12-13				7.0			5.5	1.5	6.5		6.5						8.0						
13-14							4.5			6.0		8.0											
14-15	7.5				3.5	5.0	3.5	7.0			7.5				5.0						8.0		9.5
15-16		2.0		4.0	9.5		2.0	6.0	10.0			4.0			11.0								
16-17		7.0						5.0		6.0	8.5												
17-18								4.0						9.5			7.5	7.0		11.0			
18-19			10.5			7.5	6.5	3.0			9.5										10.5	10.0	3.0
19-20				10.5	3.0		5.5	2.0	8.0	5.5										5.0			
20-21			6.0		9.0		4.5								10.5							9.0	
21-22	10.5	1.5					3.5	7.5								2.5							4.5
22-23		6.5		7.0		10.0	2.5	6.5		5.5			9.0				7.0						
23-24		11.0					1.5	5.5	6.0													7.5	
24-25					2.5			4.5			9.0			8.5				7.0		9.0			
25-26				3.5	8.0	3.5	7.0	3.5							10.0				5.0				6.5
26-27							6.0	2.0	9.5			5.0	6.5			2.0						6.5	
27-28							5.0				5.5						6.5			11.0			
28-29		5.5					4.0																
29-30		10.5	7.5	10.5	1.5	6.0	3.0	6.5			6.5											5.0	8.0
30-31					7.5		2.0	5.5	7.5						9.5				11.0				

all times in U.T.

	SU	WW	WZ	WZ	XX	ZZ	CW	CW	DK	DL	DV	EG	EK	GK	RW	RW	RZ	RZ	SS	SS	CC	CC	U
	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	COM	COM	COM	COM	COM	COM	COM	COM	CRB
MAX	8.8	11.1	11.7	11.7	8.5	9.3	7.6	7.6	12.2	12.4	11.6	9.6	8.2	6.9	11.0	11.0	10.0	10.0	10.9	10.9	11.0	11.0	7.6
MIN	9.8	11.9	11.3	11.1	9.6	10.0	8.0	8.0	14.2	13.2	12.4	10.6	9.5	7.4	11.6	11.6	10.7	10.7	11.5	11.5	11.9	11.9	8.8
DUR	4	4	3	3	4	5	5	5	4	5	4	3	6	4	3	3	3	3	4	4	2	2	5
TOT																							
				(S)				(S)							(S)		(S)		(S)		(S)		
0- 1	7.0		4.5	9.5					9.5		4.0	8.0			2.0	5.0	2.0	6.0	8.5	3.5	3.5		
1- 2	4.5			5.5					9.0		7.5	10.5				3.5	2.5	6.5	4.5	9.5		3.0	
2- 3			6.5	1.5				6.5	8.5	8.5					5.0	2.5	3.0	7.0		5.0	3.0		
3- 4			2.5	7.5					8.5			1.5			4.0		3.0	7.5	6.0			3.0	
4- 5			8.5	3.5					8.0			3.5			2.5	5.5	3.5	7.5	2.0	7.0	2.5		6.0
5- 6			4.5	9.5	8.0	4.0			7.5			6.0			1.5	4.5	4.0	8.0	7.5	2.5	5.0	2.5	
6- 7		3.0		5.5			9.0		7.5			8.0	4.0			3.0	4.5		3.5	8.5	2.5	5.0	
7- 8			6.5	1.5		7.5			7.0	5.5	3.0	10.0			5.0	2.0	4.5		9.0	4.0	5.0	2.0	
8- 9	9.5		3.0	8.0					6.5		7.0			10.5	3.5		5.0		5.0		2.0	4.5	
9-10	7.0		9.0	4.0		11.0	2.5		6.5		11.0			9.0	2.5	5.0	5.5			5.5	4.5	2.0	
10-11	5.0		5.0	10.0				11.0	6.0			3.5		7.5		4.0	6.0	1.5	6.5	1.5	1.5	4.5	
11-12				6.0					5.5			5.5		6.0	5.5	3.0	6.0	2.0	2.5	7.0	4.0	1.5	3.5
12-13			7.0	2.0	8.0				5.5	3.0		7.5		4.5	4.5	1.5	6.5	2.5	8.0	3.0		4.0	
13-14			3.0	8.0				4.5	5.0			10.0		3.0	3.0		7.0	3.0	4.0	8.5	4.0		
14-15			9.0	4.0					4.5		2.5				2.0	5.0	7.5	3.0	9.5	4.5		3.5	
15-16		8.0	5.0						4.5	9.5	6.5					3.5	7.5	3.5	5.5		3.5		
16-17				6.0					4.0		10.0	3.0			5.0	2.5	8.0	4.0		6.0		3.5	
17-18	10.0		7.0	2.0			7.0		3.5			5.5			4.0			4.5	7.0	2.0	3.0		
18-19	7.5		3.0	8.0					3.5			7.5			3.0	5.5		4.5	2.5	7.5		3.0	
19-20	5.0		9.5	4.5	8.5				3.0			9.5	11.0		1.5	4.5		5.0	8.5	3.5	3.0		
20-21			5.5			4.0			2.5	6.5						3.0	1.5	5.5	4.0	9.0		2.5	
21-22				6.5				9.0	2.5		2.0				5.0	2.0	2.0	6.0		5.0	2.5	5.0	
22-23			7.5	2.5		7.5					5.5	3.0			3.5		2.0	6.0	6.0		5.0	2.5	
23-24			3.5	8.5							9.5	5.0		10.0	2.5	5.5	2.5	6.5	1.5	6.5	2.0	5.0	
24-25			9.5	4.5		11.0		2.5				7.0		8.5		4.0	3.0	7.0	7.5	2.5	4.5	2.0	
25-26			5.5								4.0	9.5		7.0		3.0	3.5	7.5	3.0	8.0	2.0	4.5	
26-27	10.0		1.5	6.5	9.0									5.5	4.5	1.5	3.5	7.5	9.0	4.0	4.5	1.5	
27-28	8.0		7.5	2.5										4.0	3.5		4.0	8.0	4.5	9.5	1.5	4.0	
28-29	5.5		3.5	8.5			5.0			10.5		2.5	7.5	2.5	2.0	5.0	4.5			5.5	4.0		9.5
29-30		3.0	9.5	4.5							5.0	5.0				3.5	5.0		6.0			4.0	
30-31			6.0								9.0	7.0			5.5	2.5	5.0		2.0	7.0	3.5		

	RW	TW	W	W	RV	RV	SX	SX	V	Y	SW	WW	ZZ	AE	BR	CG	DK	KR	KV	V346	V387	V388	V401
	CRB	CRB	CRV	CRV	CRV	CRV	CRV	CRV	CRT	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG
MAX	10.1	10.5	10.6	10.6	9.0	9.0	8.9	8.9	9.5	7.0	9.3	9.9	10.7	11.8	9.4	11.0	10.3	9.2	11.5	11.8	11.5	9.7	10.8
MIN	10.6	11.3	11.2	11.2	10.0	10.0	9.2	9.2	10.2	7.6	11.8	13.2	12.0	12.8	10.5	11.8	10.8	10.0	12.6	13.6	12.3	10.3	11.6
DUR	4	4	4	4	4	4	3	3	4	6	5	5	4	4	4	3	4	4	5	5	3	3	4
TOT											2												
				(S)		(S)		(S)															
0- 1	4.0	4.0		3.5	4.0		3.5	7.0	3.5								10.0					10.0	9.0
1- 2		8.5	2.5	7.5		6.0	2.0	6.0		10.5			7.5			5.5	8.5	8.0				7.0	
2- 3	8.5		6.5	2.0				4.5	6.0						9.5		7.0	4.5					
3- 4	2.0	2.5		6.0	3.5		7.5	3.5					4.5				5.5				9.5		7.0
4- 5		7.0	5.0			6.0	6.0	2.5		10.5			10.5			9.5							11.0
5- 6	6.0			4.5			5.0													8.5	7.5		
6- 7			4.0		3.5		3.5	7.5					8.0		9.5	7.0		10.0				10.5	5.0
7- 8	10.5	5.5		3.0		5.5	2.5	6.0	4.0	10.5	9.5							6.0			5.5	7.0	9.0
8- 9	4.0	10.0	2.5	7.0				5.0					5.0				10.0						
9-10			6.5	1.5	3.0			4.0								10.5	8.5						
10-11	8.0	4.5		5.5		5.5	6.5	2.5		10.5					9.5		7.0		9.0		10.5		7.0
11-12	1.5	8.5	5.0				5.0	1.5					8.5			8.0	5.5						10.5
12-13				4.0	3.0		4.0		2.0			10.5						7.5			8.5	11.0	
13-14	6.0	3.0	3.5			5.0	3.0	6.5		10.5			6.0			5.5			5.0			7.5	4.5
14-15		7.0	7.5	2.5			1.5	5.5	4.5						9.0						6.5		8.5
15-16	10.0		2.0	6.5	2.5			4.0					3.0										
16-17	3.5	1.5	6.0			4.5	7.0	3.0		10.0			9.5	10.5		9.0	10.0			8.0			
17-18		6.0		5.0			5.5	2.0						10.0			8.5	9.5					6.5
18-19	8.0	10.0	4.5		2.5		4.5						6.5	9.0	9.0	6.5	7.0	5.5				11.0	10.5
19-20				4.0		4.5	3.0	7.0	2.5	10.0				8.5			5.5				9.5	7.5	
20-21		4.5	3.0				2.0	6.0					4.0	7.5									4.5
21-22	5.5	9.0	7.0	2.5	2.0			4.5	5.0				10.0	7.0		10.5					8.0		8.5
22-23			1.5	6.5		4.0	7.0	3.5		10.0		9.5		6.0	9.0			11.0					
23-24	10.0	3.0	5.5				6.0	2.0					7.5	5.5		8.0		7.5			6.0		
24-25	3.5	7.5		5.0	1.5		5.0										10.0						6.5
25-26			4.0			4.0	3.5	7.5		10.0			4.5			5.5	8.5					8.0	10.5
26-27	7.5	2.0		3.5			2.5	6.0	3.0				10.5		9.0		7.0				11.0	4.5	
27-28		6.0	2.5		1.5			5.0									5.5		10.0	7.5			4.5
28-29		10.5	6.5	2.0		3.5		3.5	5.5	10.0			8.0			9.0		9.0			9.0		8.5
29-30	5.5			6.0	7.5		6.5	2.5										5.5					
30-31		5.0	5.0				5.0				6.5		5.5		9.0	6.5			6.0		7.0		

all times in U.T.

	V456	V466	V466	V477	V477	V548	V704	1034	W	TT	TY	YY	FZ	Z	RZ	TW	UZ	UZ	AI	BH	S	SX	TX
	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL	DEL	DEL	DEL	DRA	DRA	DRA	DRA	DRA	DRA	DRA	EQU	GEM	GEM
MAX	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	10.0	7.8	9.9	9.9	7.2	8.0	8.0	10.8	10.0
MIN	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	10.9	9.5	10.7	10.7	8.2	8.6	10.0	11.7	11.9
DUR	3	4	4	4	4	5	4	4	7	5	4	4	3	4	3	5	5	5	4	5	5	5	6
TOT									2							1							
			(S)		(S)													(S)					
0- 1			8.0												5.0								
1- 2				5.5		8.0						10.5			7.5	6.0				8.0			
2- 3		10.0					6.0					5.5	11.0	6.0	10.0		3.5						
3- 4						3.0	9.5			8.0									5.5	3.5			1.5
4- 5					7.0						6.0				1.5			10.0					
5- 6	9.0	5.0									11.0	9.5			4.0		10.0					3.5	
6- 7	6.0						6.0						9.0	8.0	6.5								
7- 8			7.0				9.5								9.0								
8- 9				6.5																			
9-10		9.0										9.0							5.0				
10-11						8.5	6.0						7.0	9.5	3.0			7.5	10.0	10.0			
11-12					8.0		9.0					9.5			5.5								
12-13		4.0				3.5									8.0					6.0	10.5		
13-14	9.5											8.0	10.0	2.5	10.5								
14-15	6.5		6.0				5.5													1.5			
15-16	4.0			7.5			9.0								2.0	6.5	5.0		5.0				
16-17		8.0							9.0						4.5				10.0			2.0	
17-18											8.5	7.0	8.0	4.5	7.0				10.0				1.5
18-19			10.0		9.0		5.5								9.5	2.0	11.0						
19-20						9.0	9.0	11.0														7.5	
20-21								10.5											2.0				
21-22	10.0		5.0			4.5		9.5				6.5		6.0	3.5					5.0	8.0		
22-23	7.0			8.5			5.5	9.0							6.0					9.5			
23-24	4.5	7.0					9.0	8.5		10.5	7.5				8.5			8.5			3.5		
24-25								8.0				10.5	9.5		11.0								
25-26			9.0		10.0			7.5				5.5		8.0									
26-27							5.5	7.0		7.5					2.5								
27-28							8.5	6.5							5.0				5.0				
28-29			4.0			9.5		6.0				9.5	7.5		7.5		6.0		9.5				
29-30	10.5			9.5				5.5			6.5			9.5	10.0	7.5							
30-31	7.5	6.0				5.0	5.0	4.5			11.0									10.0			

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	WW	AF	AL	RX	SZ	TT	TU	UX	CC	CT	DI	HS	HS	LT	V728	68	WY	WY	AV	DF	DF	DI	DK	
	GEM	GEM	GEM	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	HYA	HYA	HYA	
MAX	9.8	10.2	9.3	7.1	10.2	9.7	10.6	8.9	9.5	9.9	8.4	8.5	8.5	10.7	10.9	4.7	10.3	10.3	10.2	11.0	11.0	11.0	10.5	
MIN	10.5	11.3	10.0	7.7	12.0	10.4	13.4	9.8	12.8	11.2	9.1	9.0	9.0	11.1	11.5	5.4	11.1	11.1	10.6	11.5	11.5	12.0	11.0	
DUR	4	4	4	5	4	4	5	5	4	4	6	4	4	4	3	5	3	3	4	4	4	4	4	
TOT							1																	
													(S)					(S)		(S)				
0- 1					8.0	10.0		7.0	5.5						3.5		2.5							
1- 2	1.5				3.5	8.0						6.0			2.0							5.0		
2- 3																						5.0		
3- 4			3.0				3.5	9.5		10.0					11.0				2.5			4.5		
4- 5				10.0	10.0		5.0								9.5							4.5	2.0	
5- 6					5.5				10.5	5.0			9.0		8.0	2.0	3.0		3.5			4.5	2.5	3.0
6- 7				4.5								4.0			6.5							4.0	4.0	
7- 8								4.0						2.5	5.0	3.0			5.0			4.0		
8- 9		3.5												4.5	4.0							4.0	4.5	
9-10					8.0						10.5			6.5	2.5	4.5		1.5				3.5		
10-11			2.0		3.5	11.0							7.0	8.5			3.0					3.5		
11-12						8.5		3.0			10.5			10.5	11.0	5.5						3.0		
12-13						6.5			9.0	8.5					9.5							3.0		
13-14		2.5		7.5	10.0	4.5	7.0								8.5	6.5						3.0	2.5	
14-15					5.5	2.5		5.5	2.5	3.5		8.5			7.0			1.5				2.5		
15-16													5.0		5.5	8.0	3.5					2.5		
16-17															4.0				2.0			2.0	4.0	2.0
17-18								8.0							3.0	9.0						2.0	3.0	
18-19		2.0			8.0										1.5				3.0			2.0	4.0	
19-20					3.5				7.5			6.5				10.5		2.0				1.5		
20-21				10.0			2.0	10.0						2.5	10.0		3.5		4.5			1.5		
21-22						9.5				7.0				4.5	8.5								2.0	
22-23	2.5			5.0	10.0	7.5	8.5							6.5	7.0				5.5	5.0				
23-24		1.5			5.5	5.0				2.0			9.5	8.5	6.0					5.0				
24-25						3.0						4.0		10.5	4.5			2.5		4.5		4.0		
25-26															3.0		4.0			4.5				
26-27								6.0							1.5					4.0				
27-28	1.5				8.0							11.0								4.0				
28-29			4.0		3.5			4.0		10.5			7.5		10.5					4.0			2.0	
29-30				7.5			3.5								9.0		2.5	1.5	3.5		2.0	3.0		
30-31										5.5					7.5					3.5			4.0	



all times in U.T.

	V470	V470	SW	SW	VX	AR	AW	CM	CO	CO	DG	GX	MZ	MZ	Y	UU	UV	VZ	WZ	XY	XZ	AM	SS
	HYA	HYA	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LEO	LEO	LEO	LEO	LEO	LEO	LEO	LEO	LIB
MAX	13.0	13.0	9.2	9.2	10.9	7.3	10.6	8.5	10.5	10.5	10.8	10.1	11.2	11.2	9.5	11.4	9.5	10.6	11.3	9.5	10.6	9.2	10.4
MIN	13.5	13.5	10.0	10.0	12.3	8.2	11.3	9.5	11.0	11.0	12.0	10.4	12.1	12.1	12.7	12.7	10.2	11.7	12.0	9.9	11.2	9.8	11.3
DUR	3	3	3	3	4	6	5	4	5	5	4	6	4	4	5	4	3	4	5	2	3	3	6
TOT						2																	
		(S)		(S)						(S)				(S)									
0- 1	1.5																						6.0
1- 2		1.5						7.0					10.5				4.5	3.0		4.5			
2- 3			7.0															5.0				2.0	4.0
3- 4										6.0						6.0				4.5		4.0	
4- 5					7.0						9.0	5.0					4.5		3.5			6.5	
5- 6					8.5		7.5													4.0			
6- 7				7.5	10.5	11.0	10.5			8.0					2.5							2.5	
7- 8																	4.5			4.0		4.5	
8- 9						10.5																7.0	
9-10	4.0							7.5	10.0					7.5						3.5			8.5
10-11		3.5	7.5			10.0			5.0								4.5				6.5	3.0	
11-12	3.5		6.5												3.5				4.5	3.5	6.0	5.0	
12-13		3.0				9.5							11.0							6.5	5.5		5.5
13-14	3.0						7.5		7.0		5.0						4.5	2.5		3.0	5.0		
14-15		2.5				9.0	10.5											4.5		6.5	4.5	3.5	
15-16	2.5			7.0							10.0									2.5	3.5	6.0	2.5
16-17		2.0				9.0			9.0						5.0		4.5			6.0	3.0		
17-18	2.0							8.0						5.5						2.5	2.5	1.5	
18-19		1.5				8.5													5.5	5.5	2.0	4.0	
19-20			7.0		8.0				11.0								4.5			2.0		6.5	10.0
20-21					9.5	8.0				5.0			9.5							5.5			
21-22							7.5								6.5					2.0		2.5	
22-23						7.5	10.5										4.5			5.0		4.5	7.0
23-24				7.5						7.0		6.5								1.5		7.0	
24-25						7.0					5.5									5.0			
25-26								8.5								2.5	4.5	2.5		1.5		3.0	4.0
26-27	4.0					7.0				9.0	10.5								4.5	4.5		5.0	
27-28		4.0	7.5																				
28-29	3.5		6.5			6.5								6.0			4.5		2.0	4.5			
29-30		3.0					7.5			11.0												3.5	
30-31	3.0					6.0	10.5		6.0							3.0				4.0	6.5	6.0	

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	DELT	RY	UZ	EW	FL	AT	BB	BO	EP	U	SX	V501	V508	V839	1010	1010	EF	EF	GU	GU	TY	UX	AQ
	LIB	LYN	LYR	LYR	LYR	MON	MON	MON	MON	OPH	OPH	OPH	OPH	OPH	OPH	OPH	ORI	ORI	ORI	ORI	PEG	PEG	PEG
MAX	4.8	11.9	9.8	11.2	8.7	10.6	10.6	10.8	10.5	5.8	10.5	10.9	10.1	8.8	6.2	6.2	12.6	12.6	12.6	12.6	10.5	10.7	10.3
MIN	5.9	13.3	11.0	13.6	9.5	11.4	11.3	12.1	11.1	6.5	11.2	11.8	10.7	9.4	7.0	7.0	14.1	12.8	13.5	13.5	12.6	12.0	13.0
DUR	7	4	5	5	4	5	4	5	5	5	5	4	3	3	4	4	6	6	4	4	6	5	12
TOT								1															4
																(S)	(S)		(S)				(2)
0- 1		1.5								4.5		10.5	3.0	9.0	9.5					2.5			
1- 2							2.5	3.0			11.0	9.5	4.0	5.0		9.0						10.0	
2- 3												9.0	4.5		9.0								
3- 4												8.0	5.5	6.0		8.5							
4- 5												7.5	6.5		8.5				2.5				
5- 6	5.5									5.5		6.5	7.0	7.0		8.5							
6- 7												6.0	8.0		8.0								
7- 8		6.0			5.5							5.0		8.0		8.0							
8- 9												4.5		4.0	8.0					2.5			
9-10			9.0	10.5	9.5							3.5		9.0		7.5							
10-11		3.0								6.0			3.0	5.0	7.5								
11-12			6.5	9.0									4.0			7.0							
12-13	5.5						2.0						4.5	6.0	7.0				2.5				
13-14			4.0	8.0									5.5			7.0	2.5						
14-15													6.5	7.0	6.5								
15-16				7.0						7.0			7.0			6.5						7.5	
16-17									2.0				8.0	8.0	6.0					2.5			
17-18		7.0		5.5										3.5		6.0							
18-19					3.0									9.0	6.0							9.5	
19-20	5.0			4.5										5.0		5.5							
20-21		4.0			7.0	1.5				7.5			3.0		5.5				2.5				
21-22				3.0				3.5					4.0	6.0		5.5							
22-23						2.0							4.5		5.0								
23-24							2.0						5.5	7.0		5.0							
24-25						3.0					4.0		6.5		4.5				2.5				
25-26										8.5			7.0	8.0		4.5							
26-27	4.5		9.5								5.5		8.0	3.5	4.5		1.5				10.0		
27-28														9.0		4.0							
28-29			7.0								7.0			4.5	4.0				2.5				8.5
29-30																4.0							
30-31		5.0	4.5							9.0	8.5	10.5	3.0	6.0	3.5			2.5					



all times in U.T.

	RS	AO	CC	CC	Y	RZ	WY	AM	AQ	CT	V	X	RS	RV	W	W	TX	TY	TY	UX	UX	VV	XZ
	SER	SER	SER	SER	SEX	TAU	TAU	TAU	TAU	TAU	TRI	TRI	TRI	TRI	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA
MAX	10.8	10.6	11.1	11.1	9.8	10.5	11.5	10.4	12.0	10.2	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
MIN	11.5	12.1	11.7	11.7	10.2	11.2	11.7	12.3	12.9	11.5	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
DUR	4	4	4	4	3	3	4	5	5	5	4	4	4	4	3	3	6	3	3	1	1	3	3
TOT																							
				(S)												(S)		(S)					
0- 1	11.0		4.5	10.5	2.0										3.0	7.0		3.5	8.0	6.0	1.5	4.5	
1- 2			5.0							3.0					3.0	7.0		5.0			5.5		5.5
2- 3	6.0	8.5	6.0		4.5			1.5							3.0	7.0		6.5	2.5	5.5		6.0	
3- 4	10.5	6.0	7.0							3.0					3.0	7.0		8.0	4.0		5.0		
4- 5		3.0	7.5					2.5							3.0	7.0			5.5	4.5	9.5	7.5	
5- 6	5.5		8.5	2.0	3.0					3.0	10.5				3.0	7.0		2.5	7.0	9.0	4.0		
6- 7	10.5		9.0	3.0											3.0	7.0		4.5		3.5	8.5	9.0	3.0
7- 8			10.0	3.5	5.0		3.0			3.0					3.0	7.0		6.0	1.5	8.0	3.5	1.5	8.0
8- 9	5.5		10.5	4.5											3.0	7.0		7.5	3.0	3.0	7.5		
9-10	10.0	9.5		5.0						3.0			9.5		3.5	7.5			4.5	7.5	2.5	3.0	
10-11		6.5		6.0	3.5										3.5	7.5		2.0	6.0	2.0	7.0		
11-12	5.0	4.0		6.5						3.5					3.5	7.5		3.5	7.5	6.5	1.5	4.5	
12-13	10.0			7.5							10.5				3.5	7.5		5.0			6.0		5.5
13-14			2.0	8.5	2.5					3.5					3.5	7.5		6.5	2.0	5.5		6.0	
14-15	5.0		3.0	9.0											3.5	7.5		8.0	3.5		5.5		
15-16	9.5		3.5	10.0	4.5					3.5					3.5	7.5			5.5	5.0		7.5	
16-17		10.5	4.5	10.5			3.0								3.5	7.5		2.5	7.0	9.0	4.5		
17-18	5.0	7.5	5.0							3.5					3.5	7.5		4.0	8.5	4.0	9.0	9.0	3.0
18-19	9.5	4.5	6.0		3.0										3.5	7.5		5.5		8.5	3.5	1.5	8.0
19-20		1.5	6.5							3.5					3.5	7.5		7.0	3.0	3.5	8.0		
20-21			7.5		5.5										3.5	7.5				4.5	7.5	3.0	3.0
21-22	9.5		8.0	2.0	1.5					3.5					3.5	7.5			1.5	6.0	2.5	7.0	
22-23			9.0	3.0							10.0				3.5	7.5		3.0	7.5	7.0	2.0	4.5	
23-24			10.0	3.5	4.0					3.5					3.5	7.5		4.5		1.5	6.5		5.5
24-25	9.0	8.5	10.5	4.5											3.5	7.5		6.5	2.0	6.0		6.0	
25-26		5.5		5.0			3.0		1.5	3.5				10.0	3.5	7.5		8.0	3.5		5.5		
26-27		2.5		6.0	2.5										3.5	7.5				5.0	5.0		7.5
27-28	9.0			6.5		1.5				3.5					3.5	7.5	3.0	2.5	6.5		5.0		
28-29				7.5	5.0									10.5	3.5	7.5		4.0	8.0	4.5	9.0	9.0	3.0
29-30			2.0	8.0						3.5	10.5				3.5	7.5		5.5		8.5	4.0		8.0
30-31	8.5		3.0	9.0									9.5		3.5	7.5	4.5	7.0	2.5	3.5	8.5		

	ZZ	AF	W	RU	VV	AG	AH	AH	AK	AW	AW	AX	AZ	AZ	BH	MS	MS	NY	Z	AW	AX	AY	BE
	UMA	UMA	UMI	UMI	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VUL	VUL	VUL	VUL	VUL
MAX	9.8	10.8	8.6	10.7	11.7	8.8	9.7	9.7	10.0	10.8	10.8	10.0	11.0	11.0	9.9	9.4	9.4	13.3	7.4	10.8	11.0	11.0	9.9
MIN	11.2	11.6	9.7	11.4	13.5	9.4	10.2	10.2	11.5	11.9	11.9	10.8	11.8	11.8	11.3	9.7	9.7	14.2	9.2	11.9	12.5	12.9	11.4
DUR	4	8	7	4	4	4	4	4	4	3	3	4	3	3	4	3	3	1	6	5	5	4	5
TOT																							
								(S)			(S)			(S)			(S)						
0- 1	5.0			5.5	9.5	8.5	4.0			7.5	3.5	8.5	6.5	2.0		1.5	5.5						
1- 2			7.0	6.5	7.0			4.5	2.0		5.0		7.5	3.0			4.0						
2- 3				7.5	4.5	7.0	5.0		7.0	2.0	6.5			4.5	10.0	6.0	2.5		11.0	7.0			11.0
3- 4		10.0		9.0	1.5			5.5		3.5	7.5	3.5	1.5	5.5	5.5	4.5		1.5					
4- 5				10.0		5.0	6.0			5.0			2.5	7.0		3.0	7.0	2.0				10.0	
5- 6					7.5			6.0		6.5	2.0	6.5	3.5	8.0		1.5	5.5	2.0					
6- 7			9.5		4.5	3.5	6.5	2.0		8.0	3.5		5.0				4.0	2.0		8.0			
7- 8	2.5				2.0		2.0	7.0	1.5		5.0	9.0	6.0	2.0	7.5	6.0	2.5		9.0				
8- 9			2.0	2.5		1.5	7.5	2.5	6.0	2.5	6.5	2.0	7.5	3.0	3.0	4.5							
9-10	9.5			3.5	7.5	8.5	3.0	8.0		4.0	8.0			4.5		3.0	7.0					6.0	
10-11				4.5	5.0		8.5	3.5		5.5		4.5		5.5		1.5	5.5			9.0			5.0
11-12				6.0	2.5	6.5	4.0			7.0	2.5		2.5	6.5	9.5		4.0						
12-13				7.0				4.5		8.5	4.0	7.0	3.5	8.0	5.0	6.0	2.5		6.5				
13-14			4.5	8.5	8.0	5.0	5.0				5.5		5.0			4.5		1.5					7.5
14-15				9.5	5.5			5.5	5.5	3.0	7.0	9.5	6.0	1.5		3.0	7.0	2.0		9.5			
15-16				10.5	3.0	3.0	6.0			4.5		2.5	7.0	3.0		1.5	5.5	2.0		5.0			
16-17	7.0					1.5	6.5			6.0	1.5		8.5	4.0	7.0		4.0	2.5					10.0
17-18					8.5	1.5	6.5	2.0		7.5	3.0	5.0		5.5	2.5	6.0	2.5		4.5				
18-19			7.0	1.5	6.0	8.5	2.5	7.0			4.5		2.0	6.5		4.5				10.5			
19-20		4.5		3.0	3.0		7.5	2.5		2.0	6.0	7.5	3.5	7.5		3.0	7.0			5.5			
20-21				4.0		6.5	3.0	8.0	4.5	3.5	7.5		4.5		9.0	1.5	5.5						
21-22				5.5	8.5		8.5	3.5		5.0			6.0	1.5	4.5		4.0					7.5	
22-23				6.5	6.0	5.0	4.0			6.5	2.0	3.0	7.0	3.0		6.0	2.5			11.0			
23-24	4.5		9.5	7.5	3.5			4.5		8.0	3.5		8.0	4.0		4.5		1.5		6.5	5.5		
24-25		10.5		9.0		3.0	5.0				5.0	5.5		5.0		3.0	7.0	2.0					
25-26			2.5	10.0	9.0			5.5		2.0	6.5		2.0	6.5	6.5	1.5	5.5	2.0			6.0		
26-27					6.5	1.5	6.0		3.5	3.5	8.0	8.0	3.5	7.5	2.5		4.0	2.5					
27-28					4.0	8.5	1.5	6.5	8.5	5.0			4.5			6.0	2.5			7.0	6.5		6.5
28-29						7.0	2.0			6.5	2.5		5.5	1.5		4.5							
29-30				2.5	9.5	6.5	2.5	7.5		8.0	4.0	3.5	7.0	2.5	9.0	3.0	7.0		11.0		7.0		
30-31	2.5		5.0	3.5	7.0		7.5	3.0			5.5		8.0	4.0	4.5	1.5	5.5						9.0

all times in U.T.

	BO	BS	BT	BU	CD	V495	V495
	VUL	VUL	VUL	VUL	VUL	VUL	VUL
MAX	10.4	11.0	11.8	10.6	11.5	9.6	9.6
MIN	13.3	11.5	12.5	11.4	12.6	10.0	10.0
DUR	4	3	3	3	4	4	4
TOT							
							(S)
0- 1		5.5					
1- 2		4.5		8.0	9.0		
2- 3							
3- 4					10.5	10.0	
4- 5							7.5
5- 6				7.5			
6- 7		10.0	8.0	11.0			
7- 8		9.0					
8- 9		8.0			5.0	8.0	
9-10		6.5		7.5			5.5
10-11		5.5		10.5	6.5		
11-12		4.5					
12-13					7.5		
13-14				7.0		5.5	
14-15			7.5	10.0	9.0		
15-16			11.0				
16-17		10.0			10.0		
17-18		9.0		6.5			9.5
18-19		7.5		10.0			
19-20	11.0	6.5					
20-21		5.5					
21-22	10.0	4.5		6.0	5.0	10.0	
22-23			7.5	9.5			7.0
23-24	8.5		11.0		6.0		
24-25							
25-26	7.0	11.0		5.5	7.5		
26-27		10.0		9.0		7.5	
27-28	6.0	9.0			8.5		5.0
28-29		7.5					
29-30	4.5	6.5		5.0	10.0		
30-31		5.5	7.0	8.5			