

all times in U.T.

	SW	XX	AT	SW	TZ	YZ	AA	BO	BR	DN	BH	RS	ST	SW	SZ	TV	TW	UU	UY	UY	RW	SS	RV	
	AND	AND	AND	AQR	AQR	AQR	AQR	AQR	AQR	AQR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CNC	CVN	CAP
MAX	9.3	10.3	10.8	10.5	11.6	12.1	11.4	11.6	10.8	10.7	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	11.5	10.7	11.2	10.2	
MIN	10.8	11.6	11.5	12.1	12.4	12.9	13.0	12.6	11.9	11.5	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	11.9	12.6	12.5	11.6	
RISE	2	3	3	1	3	2	2	3	2	3	2	2	3	2	2	3	2	1	2	3	2	2	2	
0- 1	8.0			4.0	5.0	9.0			9.5						4.5	5.0		3.0	5.5	6.0			10.0	
1- 2	5.0		4.0		8.5			11.0	9.0	10.0		3.5	2.5		5.5	3.5							7.5	
2- 3		7.0	9.5	11.0			9.0		8.0		10.0	6.5	8.5	2.0	6.5	2.0	2.5		4.5	2.5	2.5		5.0	
3- 4	10.5			9.0					7.0	7.5				2.5	7.5		4.0	7.5		4.5				
4- 5	7.5		6.0	7.0	5.0	6.0	5.0	5.5	6.0			4.0	5.5	3.0		6.5	5.5	5.5	3.0	6.0		8.0		
5- 6	5.0			5.0	8.5	8.5	10.5					7.0		3.5		5.0	7.0	3.5				7.0	8.5	
6- 7				3.0		11.0		7.5						2.0	4.5		3.5	8.5		2.0	3.0		6.0	6.0
7- 8	10.0	8.5	8.0				6.0				10.5	4.5	8.0	5.0		2.0				4.5		5.0		
8- 9	7.0			10.5	5.0			9.5		9.5		7.5		5.5				8.5		6.0	3.0	4.0		
9-10			4.5	8.5	8.5	5.0							5.0	6.5		6.5		6.0				2.5	9.0	
10-11		6.0	10.0	6.5		7.5	7.0			7.0		5.0		7.0	2.5	5.0	2.0	4.0		3.0			6.5	
11-12	9.5			4.5		10.0						8.0		7.5	4.0	3.5	3.5	2.0		4.5			4.0	
12-13	6.5	10.0	6.5		5.0				10.5		11.0	2.0	7.5	8.5	5.0	2.0	5.0			6.5				
13-14				8.5			8.5	6.0	10.0	11.0		5.5			6.0		6.5	9.0	6.0				9.5	
14-15			3.0	9.5					9.0			8.5	4.5		7.0	6.5	8.5	7.0		3.0			7.0	
15-16	9.0	7.5	8.5	7.5		7.0		8.0	8.0	8.5		2.5			5.0		5.0	4.5	5.0		8.0	4.5		
16-17	6.0			5.5	5.0	9.5	9.5		7.5			5.5				3.5		2.5		6.5		7.0		
17-18			5.0	3.5	8.5			10.0	6.5				7.0			2.0			3.5			6.0	10.5	
18-19		4.5	10.5				5.0			9.0	3.0									3.5		5.0	8.0	
19-20	8.5			11.0			10.5				6.0	4.0				6.5	3.0	7.5	2.5	5.0		4.0	5.5	
20-21	5.5	9.0	7.0	9.0	5.0	6.0				10.5						5.0	5.0	5.5				3.0		
21-22				7.0	8.5	8.5	6.5					3.5		2.0	2.0	3.5	6.5	3.5		2.0		2.0		
22-23			3.5	5.0		11.0		6.5		8.0		6.5	6.5	2.5	3.5	2.0	8.0			3.5			8.5	
23-24	8.0	6.0	9.0	3.0						9.5				3.0	4.5					5.0			6.0	
24-25	5.0				5.0		7.5	8.5				4.0	3.5	4.0	5.5	6.5		8.0					3.5	
25-26		10.0	5.5	10.0	8.0	5.5			11.0			7.0	9.0	4.5	6.5	5.0		6.0		2.0	2.0			
26-27	10.0		11.0	8.0		8.0		10.5	10.0					5.0	7.5	3.5		4.0	6.0	3.5			9.5	
27-28	7.5			6.0		10.5	8.5		9.5	9.5		4.5	6.0	5.5		2.0	3.0	2.0		5.0		7.0	7.0	
28-29	4.5	7.5	7.5	4.5	5.0				8.5	10.0	7.5			6.5			4.5		5.0			6.0	4.5	
29-30					8.0				7.5	7.0				3.0	7.0		6.5	6.0	9.0		2.0		5.0	
30-31	10.0		4.0			4.5	9.5		6.5			5.0	8.5	7.5		5.0	7.5	6.5	4.0	3.5		4.0	10.0	

	RZ	VW	YZ	AN	RR	RU	RV	RX	RZ	UU	S	XX	XZ	DM	RW	XZ	SV	RX	SS	TW	VX	VZ	AR
	CAP	CAP	CAP	CAP	CET	CET	CET	CET	CET	CET	COM	CYG	CYG	CYG	DRA	DRA	ERI	FOR	FOR	HER	HER	HER	HER
MAX	12.5	12.6	11.0	12.0	9.3	10.8	10.3	11.0	11.2	11.5	10.9	11.4	9.1	11.2	11.0	9.6	9.6	11.1	9.4	10.5	9.9	10.7	10.6
MIN	13.5	13.5	11.6	13.0	10.3	12.1	11.2	11.7	12.4	12.4	12.1	12.5	10.5	12.7	12.0	10.3	10.2	12.5	10.6	11.8	10.4	12.0	11.6
RISE	3	2	3	5	2	3	3	3	2	3	3	1	3	2	2	3	5	2	2	2	2	2	2
0- 1				9.0		9.5						6.0		9.5	9.5	2.5				3.5		5.5	
1- 2	5.0		5.5		8.0		9.5	10.0		9.0	2.5		11.0	6.0	6.5					8.0		3.0	10.5
2- 3		7.0			10.5							6.5	9.0	2.0	4.0					3.0	7.5	10.5	9.0
3- 4	5.0	5.5		5.5		8.0						2.0	7.5	8.0		10.5				8.0	5.5	7.5	7.5
4- 5		4.0	6.0						9.5			7.0	6.0	4.5	9.0	9.5	11.0			3.0	3.5	5.0	6.5
5- 6	5.5			8.5				10.5			5.0	2.5	4.5		6.5	8.0				8.0		2.0	5.0
6- 7					7.5		9.5					7.5	3.0	7.0	3.5	7.0				3.0		9.5	3.5
7- 8	5.5		6.0		10.0	10.5				10.5		3.0		3.0		6.0				8.0	8.0	7.0	2.0
8- 9		6.5		5.0					7.5		3.5	8.0	11.0	9.0	8.5	5.0				3.0	5.5	4.0	
9-10	5.5	5.0	4.0						11.0			3.5	9.0	5.5	6.0	3.5	11.0			8.0	3.5		10.5
10-11			6.5	8.5		9.0				11.0		8.5	7.5		3.0	2.5				3.0		9.0	9.0
11-12	5.5						9.0				1.5	4.0	6.0	7.5						8.0		6.0	7.5
12-13			4.0		9.5			8.0		7.0	6.0	9.0	4.5	4.0	8.5					3.0	8.0	3.0	6.0
13-14	6.0	7.0	6.5	5.0					9.0			4.5	3.0	10.0	5.5	10.5		11.0	8.0	6.0			4.5
14-15		5.5							9.5					6.0	3.0	9.5	10.5		11.0	3.0	3.5	8.0	3.0
15-16	6.0	4.0	4.5	8.5					10.0	7.5	4.5	5.0	11.0	2.5		8.5		11.0	10.5	7.5		5.0	
16-17							8.5	8.0	10.5				9.0	8.5	8.0	7.0			10.5	3.0		2.0	
17-18	6.0				9.0	9.5			11.0			5.5	7.5	4.5	5.5	6.0			10.0	7.5	8.0	10.0	10.0
18-19			4.5	4.5						8.0	2.5		6.0		2.5	5.0		11.0	10.0	3.0	6.0	7.0	8.5
19-20	6.0	6.5										6.5	4.5	7.0	10.5	4.0	10.5		10.0	7.5	4.0	4.0	7.0
20-21		5.0		8.0		8.0		8.5					2.5	3.5	7.5	2.5			9.5	3.0	2.0		6.0
21-22	6.5		5.0							9.0		7.0		9.5	5.0					7.5		9.0	4.5
22-23					8.5						5.0	2.0	10.5	5.5	2.0					3.0	8.5	6.0	3.0
23-24	6.5			4.5	11.0							7.5	9.0	2.0	10.0	11.0				7.5	6.5	3.0	
24-25		7.0	5.0			10.5		9.0		9.5		3.0	7.5	8.0	7.5	9.5	10.5			2.5	4.0		
25-26	6.5	5.5		8.0							3.5	8.0	6.0	4.0	4.5	8.5				7.5	2.0	8.0	10.0
26-27		4.0										3.5	4.5		2.0	7.5				2.5		5.0	8.5
27-28	6.5		5.0		7.5	9.0				10.5		8.5	2.5	6.5	10.0	6.5				7.5	8.5	2.5	7.0
28-29				4.5	10.5			9.5			2.0	4.0		2.5	7.0	5.0				2.5	6.5	10.0	5.5
29-30	6.5						11.0					9.0	10.5	9.0	4.5	4.0	10.5			7.5	4.5	7.0	4.0
30-31		6.5	5.5	7.5						11.0		4.5	9.0	5.0		3.0				2.5	2.0	4.5	2.5

	DL	DY	DY	DY	LS	RR	SS	ST	TV	AA	VY	SZ	SZ	SZ	RR	RZ	ST	AV	BH	RU	DF	RV	TU
	HER	HER	HER	HER	HER	LEO	LEO	LEO	LEO	LEO	LMI	LYN	LYN	LYN	LYR	LYR	OPH	PEG	PEG	SCL	SER	UMA	UMA
MAX	11.0	10.2	10.2	10.2	10.8	10.0	10.5	10.8	11.5	11.3	13.6	9.1	9.1	9.1	7.1	10.0	11.3	9.9	10.0	9.3	11.4	10.1	9.2
MIN	12.4	10.6	10.6	10.6	11.1	11.7	12.0	12.3	12.6	12.4	14.6	9.6	9.6	9.6	8.1	12.0	12.7	10.9	10.8	10.8	13.0	11.2	10.2
RISE	1	1	1	1	2	2	2	2	2	2	2	1	1	1	2	2	3	2	3	2	2	3	3
0- 1	6.0	5.5		2.0						2.0				2.0	2.0		4.0	6.0	9.5	9.0	7.5	2.5	
1- 2		3.0	6.5		4.0										5.5		1.5			9.0	4.5		2.5
2- 3			4.0	7.5	2.5										8.5			5.0	8.0	8.5			
3- 4	5.0	8.5		5.0		3.0				2.0		2.5					8.0	9.0		8.0			
4- 5	9.5	6.0		2.5	4.0												5.5	3.5	6.0	8.0	6.0	8.0	
5- 6		3.5	7.0		2.5										4.5	2.0	3.0	7.5		7.5	3.0	6.5	
6- 7	4.0		4.5	8.0						2.0			2.5		8.0	2.5		2.5	4.0			5.0	3.0
7- 8	8.5	9.0		5.0	4.0			3.5			2.0	2.0			11.0	3.0	9.0	6.5	11.0		7.5	3.0	
8- 9		6.0		2.5	2.5	2.5		2.5			3.0						3.5	6.5			4.5		
9-10	3.0	3.5	7.0												4.0	4.0	4.5	5.5	9.0				
10-11	7.5		4.5	8.0	4.0								2.0		7.0	4.5	2.0						
11-12			2.0	5.5	2.5										10.5	5.5		4.5	7.0		6.0	8.5	3.0
12-13	2.0	6.5		3.0			2.0		2.0								6.0	8.0	8.5		3.0	7.0	
13-14	6.5	4.0	7.5		4.0	2.0								2.5	3.0	6.5	5.5	3.0	5.5			5.5	
14-15			5.0	8.5	2.5				2.5						6.5	7.0	3.0	7.0			7.5	3.5	
15-16			2.5	6.0											9.5	7.5					4.5	2.0	
16-17	5.5	7.0		3.5	4.0				2.5								8.0	9.0	6.0	10.5			3.5
17-18	10.0	4.0	8.0		2.5		2.0							2.0	2.5	8.5	7.0						
18-19			5.0	9.0				3.5			3.0				5.5	9.0	4.5	5.0	8.5		6.0	9.0	
19-20	4.5		2.5	6.0	4.0			2.0							8.5	9.5	2.0	9.0			3.0	7.5	
20-21	9.0	7.0		3.5	2.5							2.5					10.0		3.5	6.5		6.0	
21-22		4.5	8.0														10.5	8.0	8.0		7.5	4.0	4.0
22-23	3.5	2.0	5.5	9.0	4.0	3.0	2.5								4.5		5.5	2.5	4.5		4.5	2.5	
23-24	8.0		3.0	6.5	2.5								2.5		8.0		3.5	6.5					
24-25		7.5		4.0								1.5			11.0								
25-26	2.5	5.0	8.5		4.0												9.5	5.5	9.5		6.0		2.0
26-27	7.0	2.5	6.0		2.5										4.0		7.0				3.0	8.0	4.5
27-28			3.5	7.0		2.5	2.5						2.0		7.0		4.5	4.5	8.0			6.5	
28-29		8.0		4.0	4.0				4.0		3.0				10.5	2.0	2.0	8.5			7.5	4.5	
29-30	6.0	5.0	9.0		2.5				3.0								2.5	3.0	6.0		4.5	3.0	
30-31		2.5	6.0						2.0					2.5	3.0	3.5	8.5	7.5			1.5		2.5