



Gig Harbor

Washington, USA
47°20.24'N 122°35.18'W

All times have been adjusted for
daylight saving time on the appropriate dates.

For use with *Ports and Passes, 2012*.
For detailed instructions on reading these tables,
consult page 11 of your *Ports and Passes*.

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January 2012 February

	January				February						
	DAY	TIME	FT	M	DAY	TIME	FT	M			
1 Sun	3:58a	4.8	1.5		1	1:29a	9.2	2.8			
	10:34a	12.2	3.7	16	5:30a	7.8	2.4				
	5:55p	2.8	0.9	Mon	11:05a	10.9	3.3				
2 Mon	12:29a	8.3	2.5	●	11:48p	9.2	2.8	16	1:34a	10.4	3.2
	4:59a	6.3	1.9	17	4:42a	6.2	1.9	Thu	6:15a	7.7	2.3
	11:16a	11.8	3.6	Tue	10:51a	12.8	3.9	11:26a	11.4	3.5	
3 Tue	6:45p	2.0	0.6	0.1	6:14p	0.3	0.1	6:51p	-0.2	-0.1	
	2:16a	9.1	2.8	18	1:39a	9.8	3.0	17	2:52a	11.1	3.4
	6:20a	7.4	2.3	Wed	6:06a	7.4	2.3	7:55a	7.5	2.3	
4 Wed	12:00p	11.5	3.5	19	11:45a	12.4	3.8	12:38p	11.1	3.4	
	7:31p	1.3	0.4	7:15p	-0.5	-0.2	7:54p	-0.4	-0.1		
	3:28a	10.1	3.1	20	3:06a	10.9	3.3	18	3:44a	11.7	3.6
5 Thu	9:00a	8.1	2.5	21	7:39a	7.9	2.4	9:06a	6.9	2.1	
	1:30p	11.1	3.4	22	12:45p	12.2	3.7	1:49p	11.0	3.4	
	8:51p	-0.1	0.0	8:12p	-1.2	-0.4	8:50p	-0.6	-0.2		
6 Fri	4:52a	11.6	3.5	23	3:06a	10.9	3.3	19	4:24a	12.2	3.7
	9:51a	8.1	2.5	24	7:39a	7.9	2.4	9:57a	6.1	1.9	
	2:14p	11.1	3.4	25	12:45p	12.2	3.7	2:51p	11.0	3.4	
7 Sat	9:28p	-0.7	-0.2	26	8:12p	-1.2	-0.4	9:39p	-0.5	-0.2	
	5:22a	12.0	3.7	27	4:04a	11.8	3.6	20	4:55a	12.4	3.8
	10:30a	7.9	2.4	28	8:58a	7.8	2.4	10:39a	5.3	1.6	
8 Sun	10:05p	-1.2	-0.4	29	1:45p	12.0	3.7	3:45p	11.0	3.4	
	5:47a	12.4	3.8	30	9:04p	-1.7	-0.5	10:22p	-0.3	-0.1	
	11:04a	7.6	2.3	31	4:48a	12.5	3.8	21	5:22a	12.5	3.8
9 Mon	3:38p	11.2	3.4	1	9:59a	7.4	2.3	11:16a	4.5	1.4	
	10:42p	-1.5	-0.5	2	2:43p	11.9	3.6	4:35p	11.0	3.4	
	6:11a	12.6	3.8	3	9:51p	-1.9	-0.6	11:02p	0.3	0.1	
10 Tue	11:38a	7.2	2.2	4	5:25a	12.9	3.9	22	5:45a	12.5	3.8
	4:20p	11.2	3.4	5	10:49a	6.8	2.1	11:50a	3.8	1.2	
	11:20p	-1.6	-0.5	6	3:37p	11.7	3.6	5:21p	10.9	3.3	
11 Wed	6:37a	12.9	3.9	7	10:36p	-1.8	-0.5	11:39p	1.0	0.3	
	12:14p	6.7	2.0	8	5:58a	13.1	4.0	6:09a	12.5	3.8	
	5:04p	11.1	3.4	9	11:34a	6.2	1.9	12:23p	3.1	0.9	
12 Thu	11:58p	-1.5	-0.5	10	4:29p	11.5	3.5	6:06p	10.8	3.3	
	6:37a	12.9	3.9	11	11:18p	-1.4	-0.4	23	6:09a	12.5	3.8
	12:14p	6.7	2.0	12	6:28a	13.2	4.0	12:23p	3.1	0.9	
13 Fri	5:04p	11.1	3.4	13	12:17p	5.5	1.7	6:34a	12.4	3.8	
	11:58p	-1.5	-0.5	14	5:19p	11.1	3.4	12:57p	2.6	0.8	
	7:05a	13.1	4.0	15	11:58p	-0.7	-0.2	6:51p	10.6	3.2	
14 Sat	12:54p	6.0	1.8	16	6:56a	13.2	4.0	24	12:16a	1.9	0.6
	5:52p	10.9	3.3	17	12:58p	4.9	1.5	6:34a	12.4	3.8	
	12:38a	-0.9	-0.3	18	6:09p	10.7	3.3	12:57p	2.6	0.8	
15 Sun	7:35a	13.3	4.1	19	12:58p	4.9	1.5	6:51p	10.6	3.2	
	1:38p	5.1	1.6	20	6:56a	13.2	4.0	12:57p	2.6	0.8	
	6:45p	10.5	3.2	21	12:58p	4.9	1.5	6:51p	10.6	3.2	
16 Mon	1:19a	0.0	0.0	22	6:56a	13.2	4.0	12:57p	2.6	0.8	
	8:08a	13.5	4.1	23	12:58p	4.9	1.5	6:51p	10.6	3.2	
	2:25p	4.2	1.3	24	6:09p	10.7	3.3	12:57p	2.6	0.8	
17 Tue	7:44p	10.0	3.1	25	12:58p	4.9	1.5	6:51p	10.6	3.2	
	2:01a	1.3	0.4	26	6:56a	13.2	4.0	12:57p	2.6	0.8	
	8:43a	13.5	4.1	27	12:58p	4.9	1.5	6:51p	10.6	3.2	
18 Wed	3:17p	3.2	1.0	28	6:09p	10.7	3.3	12:57p	2.6	0.8	
	8:52p	9.5	2.9	29	12:58p	4.9	1.5	6:51p	10.6	3.2	
	2:47a	2.9	0.9	30	6:56a	13.2	4.0	12:57p	2.6	0.8	
19 Thu	9:21a	13.3	4.1	31	12:58p	4.9	1.5	12:57p	2.6	0.8	
	4:12p	2.2	0.7	1	6:09p	10.7	3.3	12:57p	2.6	0.8	
	10:11p	9.1	2.8	2	12:58p	4.9	1.5	12:57p	2.6	0.8	
20 Fri	2:47a	2.9	0.9	3	6:56a	13.2	4.0	12:57p	2.6	0.8	
	9:21a	13.3	4.1	4	12:58p	4.9	1.5	12:57p	2.6	0.8	
	4:12p	2.2	0.7	5	6:09p	10.7	3.3	12:57p	2.6	0.8	
21 Sat	10:11p	9.1	2.8	6	12:58p	4.9	1.5	12:57p	2.6	0.8	
	2:47a	2.9	0.9	7	6:56a	13.2	4.0	12:57p	2.6	0.8	
	9:21a	13.3	4.1	8	12:58p	4.9	1.5	12:57p	2.6	0.8	
22 Sun	4:12p	2.2	0.7	9	6:09p	10.7	3.3	12:57p	2.6	0.8	
	10:11p	9.1	2.8	10	12:58p	4.9	1.5	12:57p	2.6	0.8	
	2:47a	2.9	0.9	11	6:56a	13.2	4.0	12:57p	2.6	0.8	
23 Mon	9:21a	13.3	4.1	12	12:58p	4.9	1.5	12:57p	2.6	0.8	
	4:12p	2.2	0.7	13	6:09p	10.7	3.3	12:57p	2.6	0.8	
	10:11p	9.1	2.8	14	12:58p	4.9	1.5	12:57p	2.6	0.8	
24 Tue	2:47a	2.9	0.9	15	6:56a	13.2	4.0	12:57p	2.6	0.8	
	9:21a	13.3	4.1	16	12:58p	4.9	1.5	12:57p	2.6	0.8	
	4:12p	2.2	0.7	17	6:09p	10.7	3.3	12:57p	2.6	0.8	
25 Wed	10:11p	9.1	2.8	18	12:58p	4.9	1.5	12:57p	2.6	0.8	
	2:47a	2.9	0.9	19	6:56a	13.2	4.0	12:57p	2.6	0.8	
	9:21a	13.3	4.1	20	12:58p	4.9	1.5	12:57p	2.6	0.8	
26 Thu	4:12p	2.2	0.7	21	6:09p	10.7	3.3	12:57p	2.6	0.8	
	10:11p	9.1	2.8	22	12:58p	4.9	1.5	12:57p	2.6	0.8	
	2:47a	2.9	0.9	23	6:56a	13.2	4.0	12:57p	2.6	0.8	
27 Fri	9:21a	13.3	4.1	24	12:58p	4.9	1.5	12:57p	2.6	0.8	
	4:12p	2.2	0.7	25	6:09p	10.7	3.3	12:57p	2.6	0.8	
	10:11p	9.1	2.8	26	12:58p	4.9	1.5	12:57p	2.6	0.8	
28 Sat	2:47a	2.9	0.9	27	6:56a	13.2	4.0	12:57p	2.6	0.8	
	9:21a	13.3	4.1	28	12:58p	4.9	1.5	12:57p	2.6	0.8	
	4:12p	2.2	0.7	29	6:09p	10.7	3.3	12:57p	2.6	0.8	
29 Sun	10:11p	9.1	2.8	30	12:58p	4.9	1.5	12:57p	2.6	0.8	
	2:47a	2.9	0.9	31	6:56a	13.2	4.0	12:57p	2.6	0.8	
	9:21a	13.3	4.1	1	12:58p	4.9	1.5	12:57p	2.6	0.8	
30 Mon	4:12p	2.2	0.7	2	6:09p	10.7	3.3	12:57p	2.6	0.8	
	10:11p	9.1	2.8	3	12:58p	4.9	1.5	12:57p	2.6	0.8	
	2:47a	2.9	0.9	4	6:56a	13.2	4.0	12:57p	2.6	0.8	
31 Tue	9:21a	13.3	4.1	5	12:58p	4.9	1.5	12:57p	2.6	0.8	
	4:12p	2.2	0.7	6	6:09p	10.7	3.3	12:57p	2.6	0.8	
	10:11p	9.1	2.8	7	12:58p	4.9	1.5	12:57p	2.6	0.8	



May

2012

June

DAY	TIME	FT	M	DAY	TIME	FT	M	DAY	TIME	FT	M	DAY	TIME	FT	M
1	1:47a	11.4	3.5	16	2:36a	11.4	3.5	1	2:13a	12.3	3.8	16	2:53a	10.8	3.3
	8:29a	3.8	1.2		9:43a	1.3	0.4		9:23a	-0.9	-0.3		10:11a	-0.5	-0.2
Tue	1:59p	8.7	2.7	Wed	4:21p	9.4	2.9	Fri	4:19p	10.4	3.2	Sat	5:58p	10.9	3.3
	7:56p	2.7	0.8		9:28p	5.1	1.6		9:26p	5.9	1.8		10:57p	7.2	2.2
2	2:27a	11.6	3.5	17	3:09a	11.3	3.4	2	2:56a	12.4	3.8	17	3:30a	10.7	3.3
	9:12a	2.3	0.7		10:16a	0.4	0.1		10:09a	-2.2	-0.7		10:44a	-1.0	-0.3
Wed	3:10p	9.4	2.9	Thu	5:16p	10.2	3.1	Sat	5:19p	11.4	3.5	Sun	6:34p	11.4	3.5
	8:56p	3.4	1.0		10:22p	5.7	1.7		10:28p	6.4	2.0		11:41p	7.3	2.2
3	3:04a	12.0	3.7	18	3:40a	11.1	3.4	3	3:41a	12.5	3.8	18	4:07a	10.5	3.2
	9:53a	0.7	0.2		10:45a	-0.2	-0.1		10:55a	-3.1	-0.9		11:17a	-1.4	-0.4
Thu	4:14p	10.4	3.2	Fri	6:15p	10.8	3.3	Sun	6:12p	12.2	3.7	Mon	7:04p	11.7	3.6
	9:52p	4.1	1.3		11:10p	6.2	1.9		11:26p	6.7	2.0				
4	3:41a	12.2	3.7	19	4:10a	10.9	3.3	4	4:28a	12.3	3.8	19	12:19a	7.3	2.2
	10:34a	-0.8	-0.2		11:14a	-0.7	-0.2		11:41a	-3.7	-1.1		4:45a	10.4	3.2
Fri	5:12p	11.3	3.4	Sat	6:38p	11.2	3.4	Mon	7:02p	12.7	3.9	Tue	11:51a	-1.6	-0.5
	10:46p	4.7	1.4		11:53p	6.5	2.0						7:31p	11.9	3.6
5	4:19a	12.4	3.8	20	4:41a	10.7	3.3	5	12:23a	6.7	2.0	20	12:55a	7.1	2.2
	11:16a	-2.1	-0.6		11:43a	-1.1	-0.3		5:17a	12.1	3.7		5:23a	10.3	3.1
Sat	6:07p	12.1	3.7	Sun	7:11p	11.5	3.5	Tue	12:28p	-3.7	-1.1	Wed	12:27p	-1.8	-0.5
	11:39p	5.3	1.6						7:50p	12.9	3.9		7:57p	12.0	3.7
6	4:59a	12.5	3.8	21	12:32a	6.8	2.1	6	1:19a	6.5	2.0	21	1:30a	6.9	2.1
	12:00p	-3.0	-0.9		5:13a	10.5	3.2		6:09a	11.6	3.5		6:03a	10.1	3.1
Sun	7:00p	12.6	3.8	Mon	12:15p	-1.4	-0.4	Wed	1:15p	-3.4	-1.0	Thu	1:04p	-1.7	-0.5
					7:42p	11.8	3.6		8:37p	13.0	4.0		8:26p	12.2	3.7
7	12:31a	5.8	1.8	22	1:11a	6.9	2.1	7	2:16a	6.2	1.9	22	2:09a	6.5	2.0
	5:42a	12.3	3.8		5:47a	10.3	3.1		7:05a	10.9	3.3		6:46a	9.9	3.0
Mon	12:46p	-3.4	-1.0	Tue	12:49p	-1.5	-0.5	Thu	2:03p	-2.6	-0.8	Fri	1:43p	-1.5	-0.5
	7:54p	12.8	3.9		8:14p	11.9	3.6		9:22p	13.0	4.0		8:56p	12.4	3.8
8	1:26a	6.1	1.9	23	1:50a	6.9	2.1	8	3:16a	5.7	1.7	23	2:50a	6.0	1.8
	6:29a	11.9	3.6		6:23a	10.0	3.1		8:04a	10.0	3.1		7:34a	9.5	2.9
Tue	1:33p	-3.3	-1.0	Wed	1:26p	-1.5	-0.5	Fri	2:51p	-1.5	-0.5	Sat	2:22p	-0.9	-0.3
	8:47p	12.8	3.9		8:48p	12.0	3.7		10:06p	12.8	3.9		9:29p	12.5	3.8
9	2:24a	6.3	1.9	24	2:31a	6.8	2.1	9	4:19a	5.1	1.6	24	3:36a	5.3	1.6
	7:20a	11.3	3.4		7:03a	9.7	3.0		9:10a	9.1	2.8		8:28a	9.1	2.8
Wed	2:23p	-2.7	-0.8	Thu	2:05p	-1.3	-0.4	Sat	3:40p	-0.1	0.0	Sun	3:04p	0.0	0.0
	9:42p	12.6	3.8		9:25p	12.0	3.7		10:49p	12.6	3.8		10:03p	12.6	3.8
10	3:27a	6.2	1.9	25	3:16a	6.6	2.0	10	5:25a	4.4	1.3	25	4:25a	4.4	1.3
	8:17a	10.4	3.2		7:46a	9.3	2.8		10:23a	8.3	2.5		9:31a	8.6	2.6
Thu	3:14p	-1.8	-0.5	Fri	2:46p	-0.9	-0.3	Sun	4:31p	1.5	0.5	Mon	3:47p	1.2	0.4
	10:37p	12.4	3.8		10:04p	12.0	3.7		11:32p	12.3	3.8		10:40p	12.6	3.8
11	4:39a	6.0	1.8	26	4:06a	6.3	1.9	11	6:29a	3.5	1.1	26	5:18a	3.4	1.0
	9:23a	9.5	2.9		8:38a	8.9	2.7		11:49a	7.8	2.4		10:44a	8.3	2.5
Fri	4:08p	-0.6	-0.2	Sat	3:30p	-0.3	-0.1	Mon	5:26p	3.1	0.9	Tue	4:35p	2.6	0.8
	11:33p	12.1	3.7		10:44p	12.0	3.7						11:18p	12.5	3.8
12	5:58a	5.3	1.6	27	5:01a	5.7	1.7	12	12:13a	12.0	3.7	27	6:14a	2.2	0.7
	10:40a	8.6	2.6		9:41a	8.4	2.6		7:28a	2.5	0.8		12:08p	8.2	2.5
Sat	5:07p	0.8	0.2	Sun	4:17p	0.6	0.2	Tue	1:28p	7.9	2.4	Wed	5:31p	4.2	1.3
					11:26p	12.0	3.7		6:30p	4.6	1.4				
13	12:26a	11.9	3.6	28	5:59a	4.8	1.5	13	12:55a	11.6	3.5	28	12:00a	12.4	3.8
	7:14a	4.4	1.3		10:57a	8.0	2.4		8:18a	1.6	0.5		7:10a	0.9	0.3
Sun	12:09p	8.1	2.5	Mon	5:09p	1.8	0.5	Wed	3:05p	8.5	2.6	Thu	1:41p	8.6	2.6
	6:10p	2.1	0.6						7:43p	5.8	1.8		6:38p	5.6	1.7
14	1:15a	11.7	3.6	29	12:07a	12.0	3.7	14	1:35a	11.3	3.4	29	12:45a	12.4	3.8
	8:15a	3.3	1.0		6:56a	3.7	1.1		9:01a	0.8	0.2		8:05a	-0.4	-0.1
Mon	1:45p	8.1	2.5	Tue	12:21p	8.0	2.4	Thu	4:20p	9.4	2.9	Fri	3:13p	9.5	2.9
	7:18p	3.3	1.0		6:07p	3.0	0.9		8:58p	6.5	2.0		7:56p	6.6	2.0
15	1:59a	11.6	3.5	30	12:49a	12.1	3.7	15	2:14a	11.1	3.4	30	1:34a	12.3	3.8
	9:04a	2.2	0.7		7:48a	2.2	0.7		9:38a	0.1	0.0		8:58a	-1.5	-0.5
Tue	3:12p	8.7	2.7	Wed	1:47p	8.4	2.6	Fri	5:15p	10.3	3.1	Sat	4:27p	10.6	3.2
	8:26p	4.3	1.3		7:12p	4.2	1.3		10:04p	7.0	2.1		9:12p	7.1	2.2
31	1:30a	12.2	3.7	31	1:30a	12.2	3.7								
	8:37a	0.7	0.2		8:37a	0.7	0.2								
Thu	3:08p	9.3	2.8		3:08p	9.3	2.8								
	8:20p	5.2	1.6		8:20p	5.2	1.6								



July 2012 August

DAY	TIME	FT	M	DAY	TIME	FT	M	DAY	TIME	FT	M	DAY	TIME	FT	M	
1	2:26a 9:49a 5:24p 10:20p	12.2 -2.5 11.5 7.2	3.7 -0.8 3.5 2.2	16	3:03a 10:16a 6:11p 11:22p	10.3 -0.7 11.2 7.2	3.1 -0.2 3.4 2.2	1	4:13a 11:12a 6:29p	11.4 -2.2 12.3	3.5 -0.7 3.8	16	4:19a 11:04a 6:09p 11:52p	10.4 -0.6 -11.5 5.2	3.2 -0.2 3.5 1.6	
2	3:19a 10:38a 6:12p 11:20p	12.2 -3.1 12.1 7.0	3.7 -0.9 3.7 2.1	17	3:47a 10:53a 6:37p 11:55p	10.4 -1.1 11.5 6.9	3.2 -0.3 3.5 2.1	2	12:04a 5:08a 11:57a 7:01p	5.5 11.3 -1.9 12.4	1.7 3.4 -0.6 3.8	17	5:03a 11:42a 6:32p	10.6 -0.6 11.8	3.2 -0.2 3.6	
3	4:13a 11:26a 6:54p	12.0 -3.3 12.6	3.7 -1.0 3.8	18	4:29a 11:29a 6:59p	10.4 -1.4 11.7	3.2 -0.4 3.6	3	12:48a 6:00a 12:40p 7:31p	4.7 11.0 -1.2 12.5	1.4 3.4 -0.4 3.8	18	12:24a 5:48a 12:20p 6:57p	4.3 10.8 -0.2 12.1	1.3 3.3 -0.1 3.7	
4	12:15a 5:06a 12:12p 7:34p	6.6 11.7 -3.2 12.8	2.0 3.6 -1.0 3.9	19	12:27a 5:10a 12:06p 7:22p	6.6 10.4 -1.5 12.0	2.0 3.2 -0.5 3.7	4	1:31a 6:53a 1:21p 8:02p	4.0 10.6 -0.2 12.4	1.2 3.2 -0.1 3.8	19	1:01a 6:36a 12:59p 7:26p	3.4 10.8 0.4 12.3	1.0 3.3 0.1 3.8	
5	1:07a 6:01a 12:58p 8:11p	6.0 11.3 -2.6 12.9	1.8 3.4 -0.8 3.9	20	1:00a 5:53a 12:43p 7:47p	6.0 10.4 -1.4 12.2	1.8 3.2 -0.4 3.7	5	2:14a 7:46a 2:02p 8:33p	3.3 10.2 1.0 12.3	1.0 3.1 0.3 3.8	20	1:40a 7:27a 1:39p 7:57p	2.4 10.7 1.4 12.4	0.7 3.3 0.4 3.8	
6	1:59a 6:56a 1:42p 8:48p	5.4 10.7 -1.7 12.9	1.6 3.3 -0.5 3.9	21	1:36a 6:39a 1:21p 8:15p	5.3 10.3 -0.9 12.4	1.6 3.1 -0.3 3.8	6	2:56a 8:40a 2:42p 9:05p	2.7 9.7 2.3 12.0	0.8 3.0 0.7 3.7	21	2:24a 8:22a 2:22p 8:32p	1.4 10.6 2.6 12.4	0.4 3.2 0.8 3.8	
7	2:50a 7:54a 2:26p 9:23p	4.8 10.0 -0.5 12.8	1.5 3.1 -0.2 3.9	22	2:16a 7:29a 2:00p 8:46p	4.5 10.0 -0.1 12.6	1.4 3.1 0.0 3.8	7	3:40a 9:39a 3:25p 9:40p	2.3 9.2 3.7 11.6	0.7 2.8 1.1 3.5	22	3:11a 9:23a 3:08p 9:10p	0.7 10.3 3.9 12.2	0.2 3.1 1.2 3.7	
8	3:42a 8:55a 3:10p 9:59p	4.1 9.2 0.9 12.5	1.3 2.8 0.3 3.8	23	2:59a 8:24a 2:41p 9:18p	3.6 9.7 1.0 12.7	1.1 3.0 0.3 3.9	8	4:26a 10:47a 4:12p 10:18p	1.9 8.9 5.1 11.1	0.6 2.7 1.6 3.4	23	4:03a 10:32a 4:00p 9:55p	0.2 9.9 5.2 11.8	0.1 1.6 2.0 3.6	
9	4:35a 10:02a 3:56p 10:36p	3.4 8.6 2.5 12.2	1.0 2.6 0.8 3.7	24	3:47a 9:25a 3:24p 9:54p	2.7 9.3 2.4 12.6	0.8 2.8 0.7 3.8	9	5:16a 12:09p 5:09p 11:01p	1.7 8.7 6.3 10.6	0.5 2.7 1.9 3.2	24	5:00a 11:55a 5:06p 10:48p	-0.1 9.7 6.3 11.3	0.0 3.0 1.9 3.4	
10	5:30a 11:20a 4:45p 11:14p	2.8 8.1 4.1 11.8	0.9 2.5 1.3 3.6	25	4:39a 10:36a 4:12p 10:34p	1.8 9.0 3.9 12.4	0.5 2.7 1.2 3.8	10	6:11a 1:55p 6:31p 11:52p	1.5 9.0 7.1 10.1	0.5 2.7 2.2 3.1	25	6:04a 1:34p 6:34p 11:53p	-0.3 9.9 7.0 10.9	-0.1 3.0 2.1 3.3	
11	6:25a 12:56p 5:44p 11:56p	2.1 8.1 5.6 11.3	0.6 2.5 1.7 3.4	26	5:35a 12:00p 5:09p 11:19p	0.9 8.9 5.4 12.2	0.3 2.7 1.6 3.7	11	7:10a 3:25p 8:16p	1.2 9.5 7.4	0.4 2.9 2.3	26	7:12a 3:02p 8:11p	-0.5 10.5 7.0	-0.2 3.2 2.1	
12	7:19a 2:43p 7:02p	1.5 8.7 6.7	0.5 2.7 2.0	27	6:35a 1:39p 6:24p	0.1 9.2 6.6	0.0 2.8 2.0	12	12:50a 8:07a 4:20p 9:32p	9.8 0.9 10.1 7.2	3.0 0.3 3.1 2.2	27	1:06a 8:18a 4:02p 9:27p	10.6 -0.6 11.0 6.3	3.2 -0.2 3.4 1.9	
13	12:41a 8:09a 4:04p 8:33p	10.9 0.9 9.5 7.3	3.3 3.3 2.9 2.2	28	12:12a 7:38a 3:17p 7:53p	11.9 -0.7 9.9 7.3	3.6 -0.2 3.0 2.2	13	1:49a 8:59a 4:58p 10:19p	9.7 0.4 10.6 6.9	3.0 0.1 3.2 2.1	28	2:19a 9:18a 4:45p 10:22p	10.6 -0.8 11.5 5.5	3.2 -0.2 3.5 1.7	
14	1:28a 8:55a 4:59p 9:49p	10.6 0.3 10.3 7.5	3.2 0.1 3.1 2.3	29	1:12a 8:38a 4:25p 9:16p	11.7 -1.4 10.8 7.2	3.6 -0.4 3.3 2.2	14	2:44a 9:45a 5:26p 10:53p	9.9 -0.1 11.0 6.5	3.0 0.0 3.4 2.0	29	3:25a 10:11a 5:20p 11:07p	10.7 -0.7 11.8 4.6	3.3 -0.2 3.6 1.4	
15	2:16a 9:37a 5:39p 10:33p	10.4 -0.2 10.9 7.4	3.2 -0.1 3.3 2.3	30	2:14a 9:33a 5:15p 10:22p	11.5 -1.9 11.5 6.8	3.5 -0.6 3.5 2.1	15	3:33a 10:26a 5:48p 11:22p	10.1 -0.4 11.2 5.9	3.1 -0.1 3.4 1.8	30	4:23a 10:58a 5:49p 11:46p	10.8 -0.5 11.9 3.7	3.3 -0.2 3.6 1.1	
				31	3:15a 10:25a 5:54p 11:16p	11.5 -2.2 12.0 6.2	3.5 -0.7 3.7 1.9						31	5:16a 11:40a 6:16p	10.9 0.1 12.0	3.3 0.0 3.7

G I G H A R B O R



September 2012 October

DAY	TIME	FT	M	DAY	TIME	FT	M	DAY	TIME	FT	M	DAY	TIME	FT	M
1	12:23a 6:05a Sat 12:21p 6:42p	2.9 10.9 0.9 11.9	0.9 3.3 0.3 3.6	16	5:46a 11:56a Sun 6:03p	11.2 1.6 12.1	3.4 0.5 3.7	1	12:26a 6:55a Mon 12:42p 6:17p	0.5 11.2 4.1 11.3	0.2 3.4 1.3 3.4	16	6:36a 12:19p Tue 5:48p	12.2 4.6 12.4	3.7 1.4 3.8
2	12:59a 6:52a Sun 1:00p 7:09p	2.2 10.8 1.9 11.8	0.7 3.3 0.6 3.6	17	12:27a 6:35a Mon 12:38p 6:34p	0.9 11.5 2.4 12.3	0.3 3.5 0.7 3.8	2	12:57a 7:36a Tue 1:22p 6:46p	0.1 11.2 4.8 11.0	0.0 3.4 1.5 3.4	17	12:41a 7:28a Wed 1:08p 6:27p	-2.2 12.5 5.3 12.2	-0.7 3.8 3.6 3.7
3	1:34a 7:39a Mon 1:39p 7:38p	1.6 10.6 2.9 11.6	0.5 3.2 0.9 3.5	18	1:08a 7:27a Tue 1:21p 7:09p	-0.1 11.6 3.4 12.3	0.0 3.5 1.0 3.8	3	1:30a 8:18a Wed 2:02p 7:19p	-0.1 11.2 5.5 10.6	0.0 3.4 1.7 3.2	18	1:26a 8:22a Thu 2:00p 7:12p	-2.6 12.5 5.9 11.8	-0.8 3.8 3.8 3.6
4	2:10a 8:27a Tue 2:19p 8:10p	1.2 10.4 4.0 11.3	0.4 3.2 1.2 3.4	19	1:52a 8:22a Wed 2:08p 7:48p	-0.8 11.6 4.4 12.1	-0.2 3.5 1.3 3.7	4	2:05a 9:01a Thu 2:46p 7:54p	-0.1 11.1 6.1 10.2	0.0 3.4 1.9 3.1	19	2:15a 9:20a Fri 2:58p 8:02p	-2.4 12.3 6.3 11.2	-0.7 3.8 1.9 3.4
5	2:48a 9:18a Wed 3:01p 8:45p	1.0 10.1 5.0 10.8	0.3 3.1 1.5 3.3	20	2:40a 9:22a Thu 3:00p 8:31p	-1.2 11.3 5.4 11.6	-0.4 3.4 1.6 3.5	5	2:45a 9:50a Fri 3:35p 8:33p	0.1 10.9 6.6 9.6	0.0 3.3 2.0 2.9	20	3:07a 10:23a Sat 4:07p 9:02p	-1.9 12.1 6.5 10.4	-0.6 3.7 2.0 3.2
6	3:30a 10:15a Thu 3:49p 9:24p	1.0 9.9 5.9 10.3	0.3 3.0 1.8 3.1	21	3:32a 10:30a Fri 4:01p 9:23p	-1.1 11.0 6.2 11.0	-0.3 3.4 1.9 3.4	6	3:28a 10:44a Sat 4:36p 9:20p	0.4 10.6 6.9 9.1	0.2 3.1 2.1 2.8	21	4:03a 11:30a Sun 5:30p 10:15p	-1.0 11.8 6.4 9.5	-0.3 3.6 2.0 2.9
7	4:16a 11:22a Fri 4:48p 10:09p	1.1 9.6 6.7 9.7	0.3 2.9 2.0 3.0	22	4:30a 11:48a Sat 5:19p 10:27p	-0.8 10.8 6.7 10.3	-0.2 3.3 2.1 3.0	7	4:18a 11:47a Sun 5:57p 10:22p	0.8 10.5 6.9 8.5	0.2 3.2 2.6 2.1	22	5:06a 12:37p Mon 7:01p 11:43p	0.0 11.7 5.6 8.8	0.0 3.6 1.7 2.7
8	5:09a 12:45p Sat 6:14p 11:07p	1.3 9.5 7.1 9.2	0.4 2.9 2.2 2.8	23	5:35a 11:33p Sun 6:56p 11:46p	-0.3 10.8 6.6 9.7	-0.1 3.3 2.0 3.0	8	5:14a 12:53p Mon 7:27p 11:37p	1.3 10.4 6.6 8.2	0.4 3.2 2.0 2.5	23	6:14a 1:38p Tue 8:14p	1.1 11.7 4.5	0.3 3.6 1.4
9	6:09a 2:13p Sun 8:00p	1.4 9.8 7.1	0.4 3.0 2.2	24	6:45a 2:26p Mon 8:24p	0.2 11.0 5.8	0.1 3.4 1.8	9	6:17a 1:50p Tue 8:26p	1.7 10.6 5.9	0.5 3.2 1.8	24	1:18a 7:25a Wed 2:27p 9:08p	8.7 2.0 11.8 3.3	2.7 0.6 3.6 1.0
10	12:15a 7:13a Mon 3:14p 9:07p	8.9 1.3 10.1 6.6	2.7 0.4 3.1 2.0	25	1:12a 7:56a Tue 3:20p 9:25p	9.5 0.5 11.3 4.8	2.9 0.2 3.4 1.5	10	12:56a 7:21a Wed 2:24p 9:04p	8.3 1.9 10.9 4.9	2.5 0.6 3.3 1.5	25	2:45a 8:32a Thu 3:07p 9:51p	9.1 2.8 11.8 2.1	2.8 0.9 3.6 0.6
11	1:24a 8:14a Tue 3:53p 9:46p	9.0 1.1 10.5 6.0	2.7 0.3 3.2 1.8	26	2:32a 8:59a Wed 4:01p 10:11p	9.7 0.8 11.6 3.7	3.0 0.2 3.5 1.1	11	2:07a 8:20a Thu 3:08p 9:36p	8.7 2.1 11.2 3.8	2.7 0.6 3.4 1.2	26	3:56a 9:31a Fri 3:39p 10:26p	9.8 3.5 11.8 1.1	3.0 1.1 3.6 0.3
12	2:27a 9:06a Wed 4:21p 10:16p	9.3 0.9 10.8 5.2	2.8 0.3 3.3 1.6	27	3:41a 10:41a Thu 4:33p 10:50p	10.0 1.2 11.7 2.7	3.1 0.4 3.6 0.8	12	3:09a 9:13a Fri 3:38p 10:08p	9.4 2.3 11.5 2.5	2.9 0.7 3.5 0.8	27	4:54a 10:23a Sat 4:08p 10:58p	10.4 4.2 11.7 0.4	3.2 1.3 3.6 0.1
13	3:21a 9:53a Thu 4:45p 10:45p	9.8 0.7 11.2 4.3	3.0 0.2 3.4 1.3	28	4:38a 10:41a Fri 5:00p 11:24p	10.4 1.8 11.7 1.8	3.2 0.5 3.6 0.5	13	4:04a 10:01a Sat 4:08p 10:42p	10.2 2.7 11.8 1.1	3.1 0.8 3.6 0.3	28	5:42a 11:08a Sun 4:35p 11:27p	11.0 4.9 11.5 -0.2	3.4 1.5 3.5 -0.1
14	4:10a 10:35a Fri 5:08p 11:16p	10.3 0.8 11.5 3.2	3.1 0.2 3.5 1.0	29	5:28a 11:23a Sat 5:25p 11:55p	10.8 2.5 11.7 1.1	3.3 0.8 3.6 0.3	14	4:55a 10:47a Sun 4:39p 11:19p	11.0 3.2 12.1 -0.3	3.4 1.0 3.7 -0.1	29	6:24a 11:51a Mon 5:02p 11:55p	11.4 5.5 11.3 -0.6	3.5 1.7 3.4 -0.2
15	4:58a 11:15a Sat 5:34p 11:50p	10.8 1.1 11.8 2.0	3.3 0.3 3.6 0.6	30	6:13a 12:03p Sun 5:50p	11.0 3.3 11.5	3.4 1.0 3.5	15	5:45a 11:33a Mon 5:12p 11:58p	11.7 3.9 12.3 -1.4	3.6 1.2 3.8 -0.4	30	7:01a 12:31p Tue 5:31p	11.7 6.0 11.0	3.6 1.8 3.4
												31	12:25a 7:36a Wed 1:11p 6:02p	-0.9 11.9 6.4 10.7	-0.3 3.6 2.0 3.3



November 2012 December

DAY	TIME	FT	M	DAY	TIME	FT	M	DAY	TIME	FT	M	DAY	TIME	FT	M
1	12:57a 8:11a 1:51p 6:36p	-1.0 11.9 6.7 10.3	-0.3 3.6 2.0 3.1	16	12:06a 7:20a 12:54p 5:48p	-3.4 13.2 6.7 11.8	-1.0 4.0 2.0 3.6	1	12:09a 7:34a 1:20p 5:47p	-1.2 12.5 7.2 10.0	-0.4 3.8 2.2 3.1	16	12:37a 7:52a 1:43p 6:36p	-2.6 13.7 6.1 10.9	-0.8 4.2 1.9 3.3
2	1:33a 8:48a 2:35p 7:12p	-0.9 11.9 6.9 9.9	-0.3 3.6 2.1 3.0	17	12:55a 8:12a 1:55p 6:44p	-2.9 13.2 6.6 11.0	-0.9 4.0 2.0 3.4	2	12:46a 8:07a 2:03p 6:29p	-0.9 12.5 6.9 9.6	-0.3 3.8 2.1 2.9	17	1:25a 8:35a 2:43p 7:40p	-1.5 13.6 5.4 10.0	-0.5 4.1 1.6 3.1
3	2:11a 9:29a 3:23p 7:53p	-0.6 11.8 7.0 9.4	-0.2 3.6 2.1 2.9	18	1:45a 9:05a 3:04p 7:49p	-2.0 13.0 6.3 10.0	-0.6 4.0 1.9 3.1	3	1:25a 8:43a 2:50p 7:19p	-0.5 12.5 6.6 9.1	-0.2 3.8 2.0 2.8	18	2:13a 9:18a 3:47p 8:52p	-0.1 13.4 4.7 9.1	0.0 4.1 1.4 2.8
4	1:53a 9:14a 3:19p 7:41p	-0.2 11.7 6.9 8.9	-0.1 3.6 2.1 2.7	19	2:38a 9:59a 4:20p 9:05p	-0.8 12.8 5.6 9.1	-0.2 3.9 1.7 2.8	4	2:07a 9:21a 3:42p 8:18p	0.2 12.5 6.0 8.6	0.1 3.8 1.8 2.6	19	3:03a 10:00a 4:52p 10:17p	1.6 13.1 3.8 8.5	0.5 4.0 1.2 2.6
5	2:38a 10:02a 4:25p 8:43p	0.4 11.5 6.6 8.3	0.1 3.5 2.0 2.5	20	3:35a 10:51a 5:37p 10:34p	0.7 12.6 4.7 8.4	0.2 3.8 1.4 2.6	5	2:50a 10:00a 4:37p 9:31p	1.2 12.5 5.2 8.1	0.4 3.8 1.6 2.5	20	3:57a 10:43a 5:55p	3.4 12.7 2.9	1.0 3.9 0.9
6	3:28a 10:52a 5:33p 10:00p	1.1 11.5 6.0 7.9	0.3 3.5 1.8 2.4	21	4:37a 11:41a 6:44p	2.2 12.4 3.5	0.7 3.8 1.1	6	3:38a 10:39a 5:32p 10:55p	2.4 12.5 4.1 8.0	0.7 3.8 1.3 2.4	21	12:00a 5:00a 11:27a 6:52p	8.4 5.1 12.3 3.9	2.6 1.6 3.8 0.6
7	4:24a 11:39a 6:30p 11:24p	1.9 11.5 5.1 7.9	0.6 3.5 1.6 2.4	22	12:16a 5:45a 12:27p 7:37p	8.3 3.6 12.2 2.3	2.5 1.1 3.7 0.7	7	4:33a 11:20a 6:25p	3.7 12.5 2.8	1.1 3.8 0.9	22	1:47a 6:18a 12:11p 7:40p	9.0 6.4 11.9 1.1	2.7 2.0 3.6 0.3
8	5:25a 12:22p 7:15p	2.7 11.7 3.8	0.8 3.6 1.2	23	1:51a 6:57a 1:08p 8:21p	8.9 4.8 12.0 1.2	2.7 1.5 3.7 0.4	8	12:24a 5:37a 12:01p 7:13p	8.5 5.0 12.5 1.3	2.6 1.5 3.8 0.4	23	3:09a 7:43a 12:54p 8:22p	10.0 7.2 11.6 0.4	3.1 2.2 3.5 0.1
9	12:46a 6:28a 1:01p 7:55p	8.4 3.5 11.9 2.4	2.6 1.1 3.6 0.7	24	3:07a 8:06a 1:45p 8:57p	9.8 5.7 11.8 0.4	3.0 1.7 3.6 0.1	9	1:49a 6:48a 12:44p 8:00p	9.4 6.0 12.6 -0.2	2.9 1.8 3.8 -0.1	24	4:07a 8:57a 1:37p 8:59p	11.0 7.6 11.3 -0.1	3.4 2.3 3.4 0.0
10	1:58a 7:30a 1:37p 8:33p	9.3 4.2 12.1 0.9	2.8 1.3 3.7 0.3	25	4:05a 9:07a 2:19p 9:29p	10.7 6.3 11.6 -0.3	3.3 1.9 3.5 -0.1	10	3:02a 7:57a 1:28p 8:45p	10.5 6.8 12.7 -1.6	3.2 2.1 3.9 -0.5	25	4:51a 9:54a 2:18p 9:33p	11.7 7.7 11.1 -0.6	3.6 2.3 3.4 -0.2
11	3:00a 8:27a 2:13p 9:12p	10.3 4.9 12.4 -0.6	3.1 1.5 3.8 -0.2	26	4:52a 9:59a 2:51p 9:59p	11.4 6.7 11.4 -0.8	3.5 2.0 3.5 -0.2	11	4:01a 9:02a 2:13p 9:31p	11.6 7.2 12.8 -2.7	3.5 2.2 3.9 -0.8	26	5:27a 10:40a 2:57p 10:06p	12.1 7.7 10.9 -0.9	3.7 2.3 3.3 -0.3
12	3:56a 9:21a 2:50p 9:52p	11.3 5.5 12.6 -1.9	3.4 3.7 3.8 -0.6	27	5:31a 10:45a 3:24p 10:29p	11.9 7.1 11.1 -1.1	3.6 2.2 3.4 -0.3	12	4:52a 10:00a 3:01p 10:16p	12.5 7.3 12.9 -3.4	3.8 2.2 3.9 -1.0	27	5:56a 11:17a 3:36p 10:40p	12.4 7.6 10.8 -1.1	3.8 2.3 3.3 -0.3
13	4:48a 10:13a 3:30p 10:35p	12.2 6.0 12.7 -2.9	3.7 3.8 3.9 -0.9	28	6:05a 11:25a 3:57p 11:00p	12.2 7.3 10.9 -1.3	3.7 2.2 3.3 -0.4	13	5:39a 10:56a 3:50p 11:03p	13.1 7.3 12.7 -3.6	4.0 2.2 3.9 -1.1	28	6:21a 11:50a 4:14p 11:14p	12.5 7.4 10.7 -1.2	3.8 2.3 3.3 -0.4
14	5:38a 11:05a 4:12p 11:19p	12.8 6.4 12.6 -3.4	3.9 2.0 3.8 -1.0	29	6:34a 12:03p 4:31p 11:33p	12.4 7.3 10.6 -1.3	3.8 2.2 3.2 -0.4	14	6:24a 11:50a 4:42p 11:50p	13.5 7.0 12.3 -3.4	4.1 2.1 3.8 -1.0	29	6:44a 12:22p 4:53p 11:49p	12.7 7.2 10.6 -1.1	3.9 2.2 3.2 -0.3
15	6:29a 11:58a 4:58p	13.1 6.6 12.3	4.0 2.0 3.8	30	7:03a 12:41p 5:08p	12.4 7.3 10.4	3.8 2.2 3.2	15	7:08a 12:46p 5:37p	13.6 6.6 11.8	4.1 2.0 3.6	30	7:09a 12:55p 5:35p	12.8 6.8 10.3	3.9 2.1 3.1
												31	12:25a 7:36a 1:33p 6:19p	-0.8 13.0 6.2 10.0	-0.2 4.0 1.9 3.1

G I G H A R B O R

