Oregon State Parks

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Tide Tables 2017

J.R. Beaver and Oregon State Parks remind you to . . .

Know the tides and play it safe on the beach

January

	Time	Height		Time	Height
	h m	ft cm		h m	ft cm
1 Su	02:37 AM	7.6 232	**16** M	03:12 AM	8.4 256
	07:44 AM	3.6 110		08:51 AM	2.8 85
	01:29 PM	8.6 262		02:37 PM	8.2 250
	08:24 PM	-0.3 -9		09:10 PM	0.2 6
2 M	03:15 AM	7.7 235	**17** Tu	03:55 AM	8.3 253
	08:32 AM	3.5 107		09:48 AM	2.8 85
	02:14 PM	8.2 250		03:30 PM	7.3 223
	09:03 PM	0.0 0		09:51 PM	1.0 30
3 Tu	03:56 AM	7.8 238	**18** W	04:39 AM	8.2 250
	09:29 AM	3.4 104		10:50 AM	2.7 82
	03:06 PM	7.6 232		04:31 PM	6.5 198
	09:45 PM	0.5 15		10:35 PM	1.8 55
4 W	04:39 AM	8.0 244	**19** Th ◑	05:25 AM	8.1 247
	10:33 AM	3.1 94		11:58 AM	2.5 76
	04:08 PM	7.0 213		05:44 PM	5.9 180
	10:32 PM	1.1 34		11:22 PM	2.6 79
5 Th ◐	05:26 AM	8.3 253	**20** F	06:12 AM	8.1 247
	11:44 AM	2.6 79		01:07 PM	2.2 67
	05:25 PM	6.5 198		07:09 PM	5.6 171
	11:24 PM	1.7 52			
6 F	06:15 AM	8.7 265	**21** Sa	12:15 AM	3.2 98
	12:56 PM	1.9 58		07:00 AM	8.1 247
	06:52 PM	6.2 189		02:10 PM	1.8 55
				08:33 PM	5.7 174
7 Sa	12:23 AM	2.3 70	**22** Su	01:16 AM	3.7 113
	07:07 AM	9.1 277		07:49 AM	8.2 250
	02:03 PM	1.0 30		03:03 PM	1.3 40
	08:17 PM	6.3 192		09:41 PM	6.0 183
8 Su	01:26 AM	2.8 85	**23** M	02:16 AM	3.9 119
	07:59 AM	9.5 290		08:35 AM	8.4 256
	03:03 PM	0.2 6		03:49 PM	0.8 24
	09:31 PM	6.7 204		10:32 PM	6.3 192
9 M	02:31 AM	3.1 94	**24** Tu	03:11 AM	3.9 119
	08:52 AM	9.9 302		09:19 AM	8.6 262
	03:57 PM	-0.6 -18		04:29 PM	0.4 12
	10:34 PM	7.2 219		11:13 PM	6.7 204
10 Tu	03:32 AM	3.2 98	**25** W	03:59 AM	3.8 116
	09:44 AM	10.3 314		10:01 AM	8.9 271
	04:47 PM	-1.2 -37		05:05 PM	0.0 0
	11:27 PM	7.6 232		11:48 PM	7.0 213
11 W	04:29 AM	3.1 94	**26** Th	04:42 AM	3.7 113
	10:35 AM	10.4 317		10:40 AM	9.1 277
	05:35 PM	-1.6 -49		05:40 PM	-0.3 -9
12 Th ○	12:16 AM	8.0 244	**27** F	12:22 AM	7.3 223
	05:23 AM	3.0 91		05:23 AM	3.5 107
	11:24 AM	10.4 317		11:19 AM	9.2 280
	06:20 PM	-1.7 -52		06:14 PM	-0.5 -15
13 F	01:02 AM	8.2 250	**28** Sa ●	12:54 AM	7.6 232
	06:14 AM	2.9 88		06:03 AM	3.2 98
	12:13 PM	10.1 308		11:58 AM	9.2 280
	07:04 PM	-1.5 -46		06:48 PM	-0.6 -18
14 Sa	01:46 AM	8.4 256	**29** Su	01:27 AM	7.8 238
	07:06 AM	2.8 85		06:45 AM	3.0 91
	01:00 PM	9.7 296		12:39 PM	9.1 277
	07:47 PM	-1.1 -34		07:23 PM	-0.5 -15
15 Su	02:29 AM	8.4 256	**30** M	02:01 AM	8.0 244
	07:57 AM	2.8 85		07:28 AM	2.8 85
	01:48 PM	9.0 274		01:21 PM	8.8 268
	08:29 PM	-0.5 -15		07:59 PM	-0.2 -6
			31 Tu	02:36 AM	8.2 250
				08:16 AM	2.5 76
				02:08 PM	8.3 253
				08:36 PM	0.2 6

February

	Time	Height		Time	Height
	h m	ft cm		h m	ft cm
1 W	03:14 AM	8.4 256	**16** Th	03:41 AM	8.1 247
	09:09 AM	2.3 70		10:02 AM	2.0 61
	03:00 PM	7.7 235		04:01 PM	6.5 198
	09:16 PM	0.8 24		09:47 PM	2.3 70
2 Th	03:55 AM	8.6 262	**17** F	04:20 AM	7.9 241
	10:09 AM	2.0 61		11:00 AM	2.1 64
	04:02 PM	7.0 213		05:05 PM	5.9 180
	10:01 PM	1.6 49		10:29 PM	3.0 91
3 F	04:41 AM	8.7 265	**18** Sa ◑	05:05 AM	7.7 235
	11:17 AM	1.7 52		12:06 PM	2.0 61
	05:17 PM	6.4 195		06:26 PM	5.6 171
	10:52 PM	2.3 70		11:21 PM	3.5 107
4 Sa ◐	05:34 AM	8.9 271	**19** Su	05:57 AM	7.6 232
	12:30 PM	1.3 40		01:15 PM	1.8 55
	06:45 PM	6.1 186		07:55 PM	5.6 171
	11:55 PM	2.9 88			
5 Su	06:32 AM	9.0 274	**20** M	12:28 AM	3.9 119
	01:42 PM	0.7 21		06:55 AM	7.6 232
	08:13 PM	6.2 189		02:18 PM	1.4 43
				09:08 PM	5.8 177
6 M	01:07 AM	3.3 101	**21** Tu	01:41 AM	4.0 122
	07:34 AM	9.2 280		07:54 AM	7.7 235
	02:47 PM	0.1 3		03:10 PM	1.0 30
	09:27 PM	6.6 201		10:00 PM	6.2 189
7 Tu	02:20 AM	3.4 104	**22** W	02:45 AM	3.9 119
	08:36 AM	9.4 287		08:48 AM	8.0 244
	03:44 PM	-0.5 -15		03:55 PM	0.5 15
	10:26 PM	7.1 216		10:39 PM	6.6 201
8 W	03:26 AM	3.3 101	**23** Th	03:37 AM	3.6 110
	09:34 AM	9.7 296		09:36 AM	8.3 253
	04:34 PM	-0.9 -27		04:34 PM	0.1 3
	11:15 PM	7.6 232		11:13 PM	7.0 213
9 Th	04:24 AM	3.0 91	**24** F	04:22 AM	3.2 98
	10:27 AM	9.8 299		10:21 AM	8.6 262
	05:20 PM	-1.1 -34		05:10 PM	-0.2 -6
	11:58 PM	8.0 244		11:44 PM	7.4 226
10 F	05:16 AM	2.6 79	**25** Sa	05:04 AM	2.7 82
	11:17 AM	9.8 299		11:04 AM	8.9 271
	06:03 PM	-1.1 -34		05:45 PM	-0.4 -12
11 Sa ○	12:38 AM	8.2 250	**26** Su ●	12:16 AM	7.8 238
	06:05 AM	2.3 70		05:46 AM	2.2 67
	12:04 PM	9.5 290		11:46 AM	9.0 274
	06:43 PM	-0.9 -27		06:20 PM	-0.4 -12
12 Su	01:16 AM	8.4 256	**27** M	12:47 AM	8.1 247
	06:51 AM	2.1 64		06:28 AM	1.8 55
	12:49 PM	9.1 277		12:30 PM	8.9 271
	07:21 PM	-0.4 -12		06:55 PM	-0.3 -9
13 M	01:52 AM	8.4 256	**28** Tu	01:21 AM	8.5 259
	07:37 AM	2.0 61		07:12 AM	1.4 43
	01:34 PM	8.6 262		01:16 PM	8.6 262
	07:57 PM	0.1 3		07:31 PM	0.1 3
14 Tu	02:28 AM	8.4 256			
	08:23 AM	1.9 58			
	02:19 PM	7.9 241			
	08:33 PM	0.8 24			
15 W	03:04 AM	8.3 253			
	09:10 AM	2.0 61			
	03:07 PM	7.2 219			
	09:09 PM	1.6 49			

March

	Time	Height		Time	Height
	h m	ft cm		h m	ft cm
1 W	01:56 AM	8.7 265	**16** Th	03:13 AM	8.1 247
	07:59 AM	1.0 30		09:35 AM	0.9 27
	02:05 PM	8.2 250		03:49 PM	6.9 210
	08:10 PM	0.7 21		09:30 PM	2.1 64
2 Th	02:34 AM	8.8 268	**17** F	03:45 AM	7.9 241
	08:51 AM	0.8 24		10:20 AM	1.1 34
	02:59 PM	7.6 232		04:39 PM	6.4 195
	08:51 PM	1.4 43		10:06 PM	2.7 82
3 F	03:16 AM	8.9 271	**18** Sa	04:21 AM	7.6 232
	09:48 AM	0.7 21		11:09 AM	1.2 37
	04:02 PM	6.9 210		05:37 PM	5.9 180
	09:38 PM	2.1 64		10:47 PM	3.2 98
4 Sa	04:03 AM	8.8 268	**19** Su	05:02 AM	7.3 223
	10:53 AM	0.6 18		12:07 PM	1.4 43
	05:17 PM	6.4 195		06:50 PM	5.6 171
	10:34 PM	2.8 85		11:40 PM	3.6 110
5 Su	05:00 AM	8.6 262	**20** M ◑	05:54 AM	7.0 213
	12:05 PM	0.5 15		01:13 PM	1.4 43
	06:42 PM	6.2 189		08:11 PM	5.6 171
◐	11:44 PM	3.3 101			
6 M	06:06 AM	8.5 259	**21** Tu	12:51 AM	3.9 119
	01:19 PM	0.3 9		06:58 AM	6.9 210
	08:06 PM	6.3 192		02:20 PM	1.2 37
				09:22 PM	5.8 177
7 Tu	01:05 AM	3.4 104	**22** W	02:12 AM	3.8 116
	07:17 AM	8.4 256		08:08 AM	6.9 210
	02:27 PM	0.0 0		03:19 PM	0.9 27
	09:14 PM	6.7 204		10:13 PM	6.1 186
8 W	02:22 AM	3.3 101	**23** Th	03:20 AM	3.5 107
	08:26 AM	8.5 259		09:13 AM	7.2 219
	03:25 PM	-0.3 -9		04:09 PM	0.6 18
	10:08 PM	7.2 219		10:53 PM	6.6 201
9 Th	03:27 AM	2.8 85	**24** F	04:14 AM	3.0 91
	09:28 AM	8.6 262		10:09 AM	7.5 229
	04:16 PM	-0.4 -12		04:52 PM	0.3 9
	10:52 PM	7.6 232		11:27 PM	7.0 213
10 F	04:22 AM	2.3 70	**25** Sa	05:01 AM	2.3 70
	10:23 AM	8.7 265		11:00 AM	7.9 241
	05:00 PM	-0.5 -15		05:31 PM	0.0 0
	11:30 PM	7.9 241		11:59 PM	7.5 229
11 Sa	05:10 AM	1.8 55	**26** Su	05:44 AM	1.6 49
	11:12 AM	8.7 265		11:47 AM	8.2 250
	05:40 PM	-0.3 -9		06:09 PM	-0.1 -3
12 Su ○	12:06 AM	8.2 250	**27** M	12:31 AM	8.1 247
	06:53 AM	1.4 43		06:27 AM	0.9 27
	12:57 PM	8.6 262		12:34 PM	8.4 256
	07:16 PM	-0.1 -3		06:46 PM	0.0 0
13 M	01:39 AM	8.3 253	**28** Tu ●	01:05 AM	8.5 259
	07:35 AM	1.1 34		07:10 AM	0.3 9
	01:40 PM	8.3 253		01:22 PM	8.4 256
	07:51 PM	0.4 12		07:24 PM	0.3 9
14 Tu	02:11 AM	8.3 253	**29** W	01:40 AM	8.9 271
	08:15 AM	1.0 30		07:55 AM	-0.2 -6
	02:22 PM	7.9 241		02:11 PM	8.2 250
	08:24 PM	0.9 27		08:04 PM	0.7 21
15 W	02:42 AM	8.3 253	**30** Th	02:17 AM	9.1 277
	08:54 AM	0.9 27		08:43 AM	-0.6 -18
	03:05 PM	7.4 226		03:04 PM	7.8 238
	08:57 PM	1.5 46		08:45 PM	1.3 40
			31 F	02:58 AM	9.1 277
				09:34 AM	-0.7 -21
				04:00 PM	7.4 226
				09:31 PM	1.9 58

April

	Time	Height	Time	Height
	h m	ft cm	h m	ft cm
1 Sa	03:42 AM	8.9 271	**16** Su	03:32 AM	7.4 226
	10:30 AM	-0.6 -18		10:30 AM	0.4 12
	05:04 PM	6.9 210		05:18 PM	6.0 183
	10:23 PM	2.5 76		10:17 PM	3.4 104
2 Su	04:34 AM	8.6 262	**17** M	04:12 AM	7.0 213
	11:32 AM	-0.4 -12		11:20 AM	0.6 18
	06:16 PM	6.5 198		06:20 PM	5.8 177
	11:27 PM	3.0 91		11:12 PM	3.6 110
3 M ◐	05:34 AM	8.1 247	**18** Tu	05:02 AM	6.7 204
	12:41 PM	-0.2 -6		12:18 PM	0.8 24
	07:35 PM	6.4 195		07:27 PM	5.8 177
4 Tu	12:44 AM	3.2 98	**19** W ◑	12:24 AM	3.7 113
	06:46 AM	7.7 235		06:06 AM	6.4 195
	01:53 PM	0.0 0		01:20 PM	0.8 24
	08:49 PM	6.6 201		08:29 PM	6.0 183
5 W	02:09 AM	3.1 94	**20** Th	01:43 AM	3.5 107
	08:04 AM	7.5 229		07:20 AM	6.3 192
	03:00 PM	0.0 0		02:20 PM	0.8 24
	09:50 PM	6.9 210		09:19 PM	6.3 192
6 Th	03:24 AM	2.7 82	**21** F	02:52 AM	3.0 91
	09:18 AM	7.4 226		08:34 AM	6.4 195
	03:58 PM	0.1 3		03:14 PM	0.6 18
	10:39 PM	7.3 223		09:59 PM	6.8 207
7 F	04:25 AM	2.1 64	**22** Sa	03:48 AM	2.3 70
	10:22 AM	7.5 229		09:39 AM	6.7 204
	04:48 PM	0.1 3		04:02 PM	0.5 15
	11:20 PM	7.6 232		10:36 PM	7.3 223
8 Sa	05:16 AM	1.5 46	**23** Su	04:37 AM	1.5 46
	11:17 AM	7.5 229		10:38 AM	7.1 216
	05:31 PM	0.3 9		04:46 PM	0.5 15
	11:56 PM	7.9 241		11:11 PM	7.9 241
9 Su	06:00 AM	0.9 27	**24** M	05:23 AM	0.5 15
	12:06 PM	7.6 232		11:32 AM	7.4 226
	06:10 PM	0.5 15		05:29 PM	0.6 18
				11:47 PM	8.5 259
10 M	12:28 AM	8.1 247	**25** Tu	06:08 AM	-0.3 -9
	06:40 AM	0.5 15		12:24 PM	7.7 235
	12:50 PM	7.5 229		06:11 PM	0.7 21
	06:45 PM	0.9 27			
11 Tu ○	12:59 AM	8.2 250	**26** W ●	12:24 AM	9.0 274
	07:17 AM	0.2 6		06:53 AM	-1.1 -34
	01:32 PM	7.4 226		01:15 PM	7.8 238
	07:18 PM	1.3 40		06:54 PM	1.0 30
12 W	01:28 AM	8.2 250	**27** Th	01:03 AM	9.4 287
	07:53 AM	0.0 0		07:40 AM	-1.6 -49
	02:13 PM	7.2 219		02:08 PM	7.8 238
	07:51 PM	1.7 52		07:38 PM	1.4 43
13 Th	01:57 AM	8.1 247	**28** F	01:44 AM	9.5 290
	08:29 AM	0.0 0		08:28 AM	-1.8 -55
	02:54 PM	6.9 210		03:02 PM	7.6 232
	08:23 PM	2.2 67		08:25 PM	1.9 58
14 F	02:26 AM	7.9 241	**29** Sa	02:29 AM	9.3 283
	09:06 AM	0.0 0		09:19 AM	-1.8 -55
	03:37 PM	6.6 201		03:59 PM	7.3 223
	08:57 PM	2.6 79		09:16 PM	2.3 70
15 Sa	02:58 AM	7.7 235	**30** Su	03:17 AM	9.0 274
	09:46 AM	0.2 6		10:14 AM	-1.5 -46
	04:24 PM	6.3 192		05:01 PM	7.0 213
	09:34 PM	3.0 91		10:14 PM	2.7 82

May

	Time	Height	Time	Height
	h m	ft cm	h m	ft cm
1 M	04:11 AM	8.4 256	**16** Tu	03:37 AM	7.1 216
	11:12 AM	-1.1 -34		10:45 AM	0.0 0
	06:07 PM	6.9 210		05:51 PM	6.1 186
	11:23 PM	3.0 91		10:50 PM	3.6 110
2 Tu	05:14 AM	7.7 235	**17** W	04:25 AM	6.7 204
	12:16 PM	-0.6 -18		11:34 AM	0.2 6
	07:15 PM	6.8 207		06:44 PM	6.2 189
				11:58 PM	3.5 107
3 W ◐	12:43 AM	2.9 88	**18** Th	05:25 AM	6.3 192
	06:28 AM	7.0 213		12:27 PM	0.4 12
	01:21 PM	-0.1 -3		07:36 PM	6.4 195
	08:19 PM	7.0 213			
4 Th	02:05 AM	2.6 79	**19** F ◑	01:12 AM	3.2 98
	07:48 AM	6.6 201		06:38 AM	6.0 183
	02:24 PM	0.2 6		01:22 PM	0.6 18
	09:15 PM	7.3 223		08:23 PM	6.8 207
5 F	03:16 AM	2.1 64	**20** Sa	02:21 AM	2.6 79
	09:04 AM	6.4 195		07:57 AM	5.9 180
	03:21 PM	0.5 15		02:17 PM	0.8 24
	10:02 PM	7.5 229		09:05 PM	7.3 223
6 Sa	04:15 AM	1.4 43	**21** Su	03:21 AM	1.7 52
	10:11 AM	6.4 195		09:11 AM	6.1 186
	04:12 PM	0.9 27		03:10 PM	1.0 30
	10:42 PM	7.8 238		09:46 PM	7.9 241
7 Su	05:03 AM	0.8 24	**22** M	04:13 AM	0.7 21
	11:09 AM	6.5 198		10:18 AM	6.4 195
	04:55 PM	1.2 37		04:01 PM	1.2 37
	11:17 PM	8.0 244		10:26 PM	8.5 259
8 M	05:45 AM	0.3 9	**23** Tu	05:02 AM	-0.2 -6
	11:59 AM	6.6 201		11:18 AM	6.8 207
	05:35 PM	1.5 46		04:50 PM	1.4 43
	11:49 PM	8.1 247		11:07 PM	9.1 277
9 Tu	06:23 AM	-0.1 -3	**24** W	05:50 AM	-1.2 -37
	12:43 PM	6.7 204		12:15 PM	7.1 216
	06:11 PM	1.8 55		05:38 PM	1.6 49
				11:49 PM	9.6 293
10 W ○	12:19 AM	8.2 250	**25** Th ●	06:37 AM	-1.9 -58
	06:58 AM	-0.4 -12		01:09 PM	7.4 226
	01:25 PM	6.7 204		06:26 PM	1.8 55
	06:45 PM	2.2 67			
11 Th	12:48 AM	8.2 250	**26** F	12:33 AM	9.8 299
	07:32 AM	-0.6 -18		07:25 AM	-2.3 -70
	02:05 PM	6.7 204		02:03 PM	7.5 229
	07:19 PM	2.5 76		07:16 PM	2.1 64
12 F	01:18 AM	8.1 247	**27** Sa	01:19 AM	9.8 299
	08:07 AM	-0.7 -21		08:14 AM	-2.4 -73
	02:45 PM	6.6 201		02:56 PM	7.5 229
	07:54 PM	2.8 85		08:08 PM	2.3 70
13 Sa	01:48 AM	8.0 244	**28** Su	02:07 AM	9.5 290
	08:42 AM	-0.6 -18		09:04 AM	-2.3 -70
	03:27 PM	6.5 198		03:51 PM	7.5 229
	08:30 PM	3.0 91		09:03 PM	2.5 76
14 Su	02:21 AM	7.7 235	**29** M	02:58 AM	9.0 274
	09:20 AM	-0.5 -15		09:56 AM	-1.9 -58
	04:11 PM	6.3 192		04:47 PM	7.4 226
	09:09 PM	3.3 101		10:05 PM	2.7 82
15 M	02:56 AM	7.4 226	**30** Tu	03:54 AM	8.3 253
	10:01 AM	-0.3 -9		10:50 AM	-1.3 -40
	04:59 PM	6.2 189		05:46 PM	7.3 223
	09:55 PM	3.5 107		11:14 PM	2.8 85
			31 W	04:56 AM	7.4 226
				11:46 AM	-0.6 -18
				06:45 PM	7.3 223

June

	Time	Height	Time	Height
	h m	ft cm	h m	ft cm
1 Th ◐	12:30 AM	2.6 79	**16** F	04:58 AM	6.4 195
	06:07 AM	6.7 204		11:43 AM	0.4 12
	12:44 PM	0.0 0		06:45 PM	7.1 216
	07:41 PM	7.4 226			
2 F	01:47 AM	2.3 70	**17** Sa	12:40 AM	2.8 85
	07:25 AM	6.1 186		06:08 AM	6.0 183
	01:41 PM	0.7 21		12:33 PM	0.8 24
	08:33 PM	7.6 232	◑	07:30 PM	7.4 226
3 Sa	02:56 AM	1.7 52	**18** Su	01:49 AM	2.1 64
	08:44 AM	5.8 177		07:28 AM	5.7 174
	02:37 PM	1.2 37		01:27 PM	1.2 37
	09:19 PM	7.8 238		08:15 PM	7.9 241
4 Su	03:55 AM	1.1 34	**19** M	02:52 AM	1.3 40
	09:56 AM	5.7 174		08:49 AM	5.8 177
	03:28 PM	1.7 52		02:23 PM	1.6 49
	10:00 PM	8.0 244		09:01 PM	8.5 259
5 M	04:44 AM	0.5 15	**20** Tu	03:50 AM	0.3 9
	10:57 AM	5.9 180		10:03 AM	6.0 183
	04:15 PM	2.1 64		03:21 PM	2.0 61
	10:37 PM	8.1 247		09:48 PM	9.0 274
6 Tu	05:26 AM	0.1 3	**21** W	04:43 AM	-0.6 -18
	11:50 AM	6.0 183		11:09 AM	6.5 198
	04:58 PM	2.4 73		04:17 PM	2.2 67
	11:10 PM	8.2 250		10:35 PM	9.6 293
7 W	06:04 AM	-0.3 -9	**22** Th	05:34 AM	-1.5 -46
	12:35 PM	6.2 189		12:07 PM	6.9 210
	05:38 PM	2.7 82		05:12 PM	2.3 70
	11:43 PM	8.3 253		11:23 PM	9.9 302
8 Th	06:39 AM	-0.6 -18	**23** F	06:23 AM	-2.1 -64
	01:16 PM	6.4 195		01:01 PM	7.3 223
	06:15 PM	2.9 88		06:06 PM	2.4 73
9 F ○	12:15 AM	8.3 253	**24** Sa ●	12:12 AM	10.1 308
	07:13 AM	-0.8 -24		07:11 AM	-2.4 -73
	01:55 PM	6.5 198		01:52 PM	7.5 229
	06:52 PM	3.0 91		07:00 PM	2.4 73
10 Sa	12:48 AM	8.3 253	**25** Su	01:02 AM	10.0 305
	07:47 AM	-0.9 -27		07:59 AM	-2.4 -73
	02:33 PM	6.6 201		02:43 PM	7.7 235
	07:29 PM	3.2 98		07:54 PM	2.4 73
11 Su	01:21 AM	8.2 250	**26** M	01:52 AM	9.7 296
	08:22 AM	-0.9 -27		08:47 AM	-2.2 -67
	03:12 PM	6.6 201		03:32 PM	7.8 238
	08:08 PM	3.3 101		08:50 PM	2.5 76
12 M	01:56 AM	8.0 244	**27** Tu	02:44 AM	9.1 277
	08:58 AM	-0.8 -24		09:35 AM	-1.7 -52
	03:52 PM	6.6 201		04:22 PM	7.8 238
	08:49 PM	3.4 104		09:49 PM	2.5 76
13 Tu	02:33 AM	7.7 235	**28** W	03:38 AM	8.3 253
	09:35 AM	-0.6 -18		10:23 AM	-1.0 -30
	04:33 PM	6.6 201		05:13 PM	7.8 238
	09:35 PM	3.4 104		10:53 PM	2.5 76
14 W	03:14 AM	7.3 223	**29** Th	04:36 AM	7.4 226
	10:15 AM	-0.3 -9		11:12 AM	-0.2 -6
	05:16 PM	6.6 201		06:04 PM	7.8 238
	10:29 PM	3.4 104			
15 Th	04:01 AM	6.9 210	**30** F	12:02 AM	2.3 70
	10:57 AM	0.0 0		05:42 AM	6.5 198
	06:00 PM	6.8 207		12:02 PM	0.6 18
	11:31 PM	3.2 98		06:55 PM	7.8 238

July

	Time	Height	Time	Height
	h m	ft cm	h m	ft cm
1 Sa ◐	01:15 AM	2.1 64	**16** Su ◑	12:08 AM	2.2 67
	06:56 AM	5.8 177		05:51 AM	6.1 186
	12:54 PM	1.4 43		11:53 AM	1.3 40
	07:44 PM	7.8 238		06:42 PM	8.0 244
2 Su	02:24 AM	1.7 52	**17** M	01:18 AM	1.7 52
	08:17 AM	5.5 168		07:11 AM	5.8 177
	01:49 PM	2.0 61		12:47 PM	1.9 58
	08:32 PM	7.9 241		07:32 PM	8.4 256
3 M	03:25 AM	1.2 37	**18** Tu	02:26 AM	0.9 27
	09:35 AM	5.4 165		08:36 AM	5.7 174
	02:43 PM	2.6 79		01:49 PM	2.4 73
	09:16 PM	8.0 244		08:25 PM	8.8 268
4 Tu	04:17 AM	0.7 21	**19** W	03:29 AM	0.1 3
	10:42 AM	5.6 171		09:55 AM	6.0 183
	03:36 PM	2.9 88		02:54 PM	2.7 82
	09:57 PM	8.1 247		09:20 PM	9.2 280
5 W	05:02 AM	0.3 9	**20** Th	04:26 AM	-0.7 -21
	11:36 AM	5.9 180		11:01 AM	6.5 198
	04:25 PM	3.2 98		03:58 PM	2.8 85
	10:36 PM	8.3 253		10:14 PM	9.6 293
6 Th	05:41 AM	-0.1 -3	**21** F	05:19 AM	-1.3 -40
	12:21 PM	6.2 189		11:57 AM	7.0 213
	05:09 PM	3.3 101		04:58 PM	2.7 82
	11:14 PM	8.4 256		11:08 PM	9.9 302
7 F	06:18 AM	-0.4 -12	**22** Sa	06:09 AM	-1.8 -55
	01:01 PM	6.4 195		12:48 PM	7.4 226
	05:51 PM	3.3 101		05:54 PM	2.5 76
	11:50 PM	8.5 259			
8 Sa	06:52 AM	-0.6 -18	**23** Su ●	12:00 AM	10.0 305
	01:37 PM	6.6 201		06:56 AM	-2.0 -61
	06:30 PM	3.3 101		01:35 PM	7.7 235
				06:48 PM	2.3 70
9 Su ○	12:26 AM	8.5 259	**24** M	12:51 AM	9.9 302
	07:27 AM	-0.8 -24		07:42 AM	-1.9 -58
	02:12 PM	6.8 207		02:19 PM	7.9 241
	07:09 PM	3.2 98		07:41 PM	2.2 67
10 M	01:02 AM	8.5 259	**25** Tu	01:41 AM	9.5 290
	08:00 AM	-0.8 -24		08:26 AM	-1.6 -49
	02:46 PM	6.9 210		03:03 PM	8.1 247
	07:48 PM	3.2 98		08:34 PM	2.0 61
11 Tu	01:39 AM	8.3 253	**26** W	02:31 AM	9.0 274
	08:34 AM	-0.7 -21		09:09 AM	-1.0 -30
	03:21 PM	7.0 213		03:47 PM	8.1 247
	08:30 PM	3.1 94		09:28 PM	2.0 61
12 W	02:17 AM	8.1 247	**27** Th	03:22 AM	8.2 250
	09:09 AM	-0.6 -18		09:52 AM	-0.3 -9
	03:57 PM	7.1 216		04:30 PM	8.1 247
	09:15 PM	3.0 91		10:24 PM	2.0 61
13 Th	02:59 AM	7.7 235	**28** F	04:16 AM	7.3 223
	09:45 AM	-0.3 -9		10:35 AM	0.5 15
	04:34 PM	7.3 223		05:15 PM	8.0 244
	10:06 PM	2.9 88		11:25 PM	2.0 61
14 F	03:46 AM	7.2 219	**29** Sa	05:16 AM	6.5 198
	10:24 AM	0.2 6		11:19 AM	1.3 40
	05:13 PM	7.5 229		06:01 PM	7.9 241
	11:04 PM	2.6 79			
15 Sa	04:43 AM	6.7 204	**30** Su	12:31 AM	1.9 58
	11:05 AM	0.7 21		06:25 AM	5.9 180
	05:55 PM	7.7 235		12:07 PM	2.1 64
			◐	06:49 PM	7.8 238
			31 M	01:39 AM	1.7 52
				07:46 AM	5.5 168
				01:01 PM	2.8 85
				07:39 PM	7.7 235

August

	Time	Height	Time	Height
	h m	ft cm	h m	ft cm
1 Tu	02:45 AM	1.4 43	**16** W	02:02 AM	0.6 18
	09:09 AM	5.5 168		08:32 AM	6.0 183
	02:01 PM	3.2 98		01:31 PM	3.0 91
	08:30 PM	7.7 235		07:58 PM	8.7 265
2 W	03:42 AM	1.0 30	**17** Th	03:09 AM	0.1 3
	10:20 AM	5.7 174		09:48 AM	6.3 192
	03:03 PM	3.5 107		02:45 PM	3.1 94
	09:20 PM	7.9 241		09:02 PM	9.0 274
3 Th	04:31 AM	0.6 18	**18** F	04:10 AM	-0.5 -15
	11:14 AM	6.0 183		10:50 AM	6.7 204
	03:59 PM	3.5 107		03:53 PM	3.0 91
	10:06 PM	8.0 244		10:03 PM	9.2 280
4 F	05:14 AM	0.3 9	**19** Sa	05:04 AM	-0.9 -27
	11:56 AM	6.3 192		11:42 AM	7.2 219
	04:47 PM	3.4 104		04:54 PM	2.6 79
	10:49 PM	8.2 250		11:00 PM	9.5 290
5 Sa	05:51 AM	-0.1 -3	**20** Su	05:52 AM	-1.2 -37
	12:33 PM	6.6 201		12:27 PM	7.6 232
	05:31 PM	3.3 101		05:48 PM	2.2 67
	11:30 PM	8.4 256		11:53 PM	9.5 290
6 Su	06:27 AM	-0.3 -9	**21** M ●	06:37 AM	-1.2 -37
	01:06 PM	6.8 207		01:08 PM	8.0 244
	06:11 PM	3.0 91		06:39 PM	1.8 55
7 M ○	12:08 AM	8.6 262	**22** Tu	12:43 AM	9.4 287
	07:00 AM	-0.5 -15		07:19 AM	-1.0 -30
	01:37 PM	7.1 216		01:48 PM	8.2 250
	06:50 PM	2.8 85		07:27 PM	1.5 46
8 Tu	12:47 AM	8.6 262	**23** W	01:31 AM	9.1 277
	07:33 AM	-0.6 -18		07:59 AM	-0.6 -18
	02:09 PM	7.3 223		02:26 PM	8.3 253
	07:29 PM	2.6 79		08:15 PM	1.3 40
9 W	01:25 AM	8.5 259	**24** Th	02:18 AM	8.6 262
	08:06 AM	-0.5 -15		08:38 AM	-0.1 -3
	02:40 PM	7.5 229		03:04 PM	8.3 253
	08:10 PM	2.3 70		09:02 PM	1.3 40
10 Th	02:06 AM	8.3 253	**25** F	03:06 AM	7.9 241
	08:40 AM	-0.2 -6		09:17 AM	0.6 18
	03:13 PM	7.7 235		03:42 PM	8.2 250
	08:55 PM	2.1 64		09:51 PM	1.3 40
11 F	02:50 AM	7.9 241	**26** Sa	03:56 AM	7.2 219
	09:15 AM	0.2 6		09:55 AM	1.4 43
	03:48 PM	7.9 241		04:20 PM	8.0 244
	09:43 PM	1.9 58		10:43 PM	1.4 43
12 Sa	03:39 AM	7.4 226	**27** Su	04:52 AM	6.6 201
	09:53 AM	0.7 21		10:36 AM	2.1 64
	04:26 PM	8.1 247		05:01 PM	7.7 235
	10:38 PM	1.7 52		11:40 PM	1.5 46
13 Su	04:36 AM	6.8 207	**28** M	05:56 AM	6.0 183
	10:34 AM	1.4 43		11:22 AM	2.8 85
	05:09 PM	8.2 250		05:47 PM	7.5 229
	11:40 PM	1.4 43			
14 M	05:44 AM	6.3 192	**29** Tu	12:45 AM	1.6 49
	11:23 AM	2.0 61		07:14 AM	5.7 174
	05:59 PM	8.3 253		12:17 PM	3.4 104
			◐	06:41 PM	7.3 223
15 Tu	12:50 AM	1.1 34	**30** W	01:53 AM	1.5 46
	07:05 AM	5.9 180		08:38 AM	5.6 171
	12:21 PM	2.6 79		01:26 PM	3.7 113
◑	06:56 PM	8.5 259		07:41 PM	7.2 219
			31 Th	02:57 AM	1.3 40
				09:48 AM	5.8 177
				02:37 PM	3.8 116
				08:42 PM	7.3 223

September

	Time	Height	Time	Height
	h m	ft cm	h m	ft cm
1 F	03:52 AM	1.0 30	**16** Sa	03:50 AM	-0.2 -6
	10:40 AM	6.1 186		10:32 AM	7.2 219
	03:38 PM	3.6 110		03:56 PM	2.7 82
	09:37 PM	7.6 232		09:58 PM	8.5 259
2 Sa	04:37 AM	0.6 18	**17** Su	04:43 AM	-0.4 -12
	11:20 AM	6.5 198		11:18 AM	7.6 232
	04:28 PM	3.3 101		04:54 PM	2.1 64
	10:26 PM	7.9 241		10:56 PM	8.7 265
3 Su	05:17 AM	0.3 9	**18** M	05:30 AM	-0.4 -12
	11:53 AM	6.8 207		11:59 AM	8.0 244
	05:11 PM	2.9 88		05:44 PM	1.5 46
	11:10 PM	8.1 247		11:48 PM	8.7 265
4 M	05:53 AM	0.1 3	**19** Tu	06:12 AM	-0.3 -9
	12:24 PM	7.2 219		12:36 PM	8.3 253
	05:51 PM	2.4 73		06:30 PM	1.1 34
	11:51 PM	8.4 256			
5 Tu	06:27 AM	-0.1 -3	**20** W ●	12:37 AM	8.6 262
	12:54 PM	7.5 229		06:52 AM	0.0 0
	06:30 PM	2.0 61		01:11 PM	8.5 259
				07:13 PM	0.7 21
6 W	12:32 AM	8.5 259	**21** Th	01:23 AM	8.4 256
	07:00 AM	-0.1 -3		07:29 AM	0.5 15
	01:24 PM	7.9 241		01:45 PM	8.5 259
○	07:10 PM	1.6 49		07:55 PM	0.5 15
7 Th	01:14 AM	8.5 259	**22** F	02:08 AM	8.0 244
	07:34 AM	0.1 3		08:05 AM	1.0 30
	01:56 PM	8.2 250		02:18 PM	8.5 259
	07:51 PM	1.2 37		08:36 PM	0.5 15
8 F	01:57 AM	8.3 253	**23** Sa	02:53 AM	7.6 232
	08:08 AM	0.4 12		08:41 AM	1.7 52
	02:29 PM	8.4 256		02:51 PM	8.3 253
	08:35 PM	0.9 27		09:18 PM	0.6 18
9 Sa	02:44 AM	7.9 241	**24** Su	03:40 AM	7.1 216
	08:45 AM	0.9 27		09:17 AM	2.3 70
	03:04 PM	8.5 259		03:26 PM	8.0 244
	09:23 PM	0.6 18		10:03 PM	0.8 24
10 Su	03:36 AM	7.5 229	**25** M	04:32 AM	6.6 201
	09:25 AM	1.5 46		09:56 AM	2.9 88
	03:44 PM	8.6 262		04:03 PM	7.6 232
	10:16 PM	0.5 15		10:53 PM	1.0 30
11 M	04:35 AM	7.0 213	**26** Tu	05:31 AM	6.2 189
	10:10 AM	2.1 64		10:42 AM	3.4 104
	04:30 PM	8.5 259		04:46 PM	7.3 223
	11:17 PM	0.5 15		11:50 PM	1.2 37
12 Tu	05:45 AM	6.5 198	**27** W	06:42 AM	5.9 180
	11:04 AM	2.7 82		11:40 AM	3.8 116
	05:24 PM	8.4 256		05:39 PM	6.9 210
13 W	12:26 AM	0.4 12	**28** Th	12:54 AM	1.4 43
	07:05 AM	6.3 192		07:59 AM	5.9 180
	12:11 PM	3.2 98		12:55 PM	4.0 122
◑	06:28 PM	8.2 250	◐	06:46 PM	6.7 204
14 Th	01:39 AM	0.3 9	**29** F	02:01 AM	1.3 40
	08:27 AM	6.4 195		09:06 AM	6.1 186
	01:30 PM	3.4 104		02:12 PM	3.8 116
	07:41 PM	8.2 250		07:57 PM	6.7 204
15 F	02:48 AM	0.1 3	**30** Sa	03:00 AM	1.2 37
	09:37 AM	6.7 204		09:55 AM	6.4 195
	02:49 PM	3.2 98		03:16 PM	3.5 107
	08:53 PM	8.3 253		09:02 PM	6.9 210

October

	Time	Height		Time	Height
	h m	ft cm		h m	ft cm
1 Su	03:50 AM	0.9 27	**16** M	04:16 AM	0.4 12
	10:33 AM	6.8 207		10:49 AM	8.1 247
	04:06 PM	2.9 88		04:50 PM	1.5 46
	09:58 PM	7.3 223		10:52 PM	7.8 238
2 M	04:32 AM	0.7 21	**17** Tu	05:02 AM	0.6 18
	11:06 AM	7.2 219		11:26 AM	8.4 256
	04:49 PM	2.3 70		05:36 PM	0.9 27
	10:47 PM	7.6 232		11:44 PM	7.8 238
3 Tu	05:10 AM	0.5 15	**18** W	05:43 AM	0.9 27
	11:37 AM	7.7 235		12:01 PM	8.6 262
	05:30 PM	1.7 52		06:18 PM	0.4 12
	11:33 PM	7.9 241			
4 W	05:47 AM	0.5 15	**19** Th ●	12:32 AM	7.8 238
	12:08 PM	8.1 247		06:21 AM	1.2 37
	06:09 PM	1.0 30		12:34 PM	8.8 268
				06:57 PM	0.0 0
5 Th ○	12:18 AM	8.1 247	**20** F	01:16 AM	7.7 235
	06:23 AM	0.6 18		06:57 AM	1.7 52
	12:39 PM	8.6 262		01:05 PM	8.7 265
	06:50 PM	0.4 12		07:35 PM	-0.1 -3
6 F	01:03 AM	8.2 250	**21** Sa	02:00 AM	7.5 229
	06:59 AM	0.8 24		07:32 AM	2.1 64
	01:12 PM	8.9 271		01:35 PM	8.6 262
	07:32 PM	-0.1 -3		08:12 PM	-0.1 -3
7 Sa	01:51 AM	8.1 247	**22** Su	02:43 AM	7.3 223
	07:37 AM	1.2 37		08:07 AM	2.6 79
	01:48 PM	9.1 277		02:06 PM	8.4 256
	08:17 PM	-0.5 -15		08:50 PM	0.0 0
8 Su	02:41 AM	7.9 241	**23** M	03:27 AM	7.0 213
	08:18 AM	1.7 52		08:43 AM	3.1 94
	02:27 PM	9.2 280		02:38 PM	8.1 247
	09:05 PM	-0.6 -18		09:30 PM	0.2 6
9 M	03:35 AM	7.6 232	**24** Tu	04:15 AM	6.7 204
	09:02 AM	2.3 70		09:22 AM	3.5 107
	03:10 PM	9.1 277		03:13 PM	7.7 235
	09:58 PM	-0.6 -18		10:14 PM	0.5 15
10 Tu	04:36 AM	7.2 219	**25** W	05:09 AM	6.5 198
	09:53 AM	2.8 85		10:09 AM	3.8 116
	03:59 PM	8.7 265		03:54 PM	7.3 223
	10:58 PM	-0.4 -12		11:03 PM	0.8 24
11 W	05:45 AM	6.9 210	**26** Th	06:10 AM	6.3 192
	10:55 AM	3.2 98		11:07 AM	4.1 125
	04:57 PM	8.3 253		04:44 PM	6.9 210
				11:59 PM	1.0 30
12 Th ◑	12:04 AM	-0.1 -3	**27** F ◐	07:15 AM	6.3 192
	07:00 AM	6.8 207		12:22 PM	4.1 125
	12:11 PM	3.5 107		05:49 PM	6.5 198
	06:08 PM	7.9 241			
13 F	01:14 AM	0.1 3	**28** Sa	01:00 AM	1.2 37
	08:13 AM	6.9 210		08:14 AM	6.5 198
	01:36 PM	3.3 101		01:41 PM	3.8 116
	07:27 PM	7.6 232		07:05 PM	6.3 192
14 Sa	02:22 AM	0.2 6	**29** Su	01:59 AM	1.2 37
	09:15 AM	7.3 223		09:02 AM	6.8 207
	02:53 PM	2.8 85		02:47 PM	3.3 101
	08:45 PM	7.5 229		08:20 PM	6.4 195
15 Su	03:23 AM	0.3 9	**30** M	02:52 AM	1.2 37
	10:06 AM	7.7 235		09:41 AM	7.3 223
	03:57 PM	2.2 67		03:39 PM	2.6 79
	09:53 PM	7.6 232		09:26 PM	6.7 204
			31 Tu	03:40 AM	1.2 37
				10:15 AM	7.8 238
				04:25 PM	1.8 55
				10:23 PM	7.0 213

November

	Time	Height		Time	Height
	h m	ft cm		h m	ft cm
1 W	04:23 AM	1.2 37	**16** Th	04:11 AM	2.0 61
	10:49 AM	8.3 253		10:26 AM	8.9 271
	05:07 PM	1.0 30		05:05 PM	0.0 0
	11:15 PM	7.4 226		11:28 PM	7.2 219
2 Th	05:04 AM	1.3 40	**17** F	04:50 AM	2.4 73
	11:23 AM	8.9 271		10:58 AM	9.0 274
	05:49 PM	0.1 3		05:42 PM	-0.3 -9
3 F	12:05 AM	7.7 235	**18** Sa ●	12:12 AM	7.2 219
	05:45 AM	1.5 46		05:27 AM	2.7 82
	11:58 AM	9.4 287		11:29 AM	8.9 271
	06:31 PM	-0.6 -18		06:17 PM	-0.4 -12
4 Sa ○	12:55 AM	7.9 241	**19** Su	12:53 AM	7.3 223
	06:26 AM	1.7 52		06:03 AM	3.1 94
	12:35 PM	9.7 296		12:00 PM	8.8 268
	07:15 PM	-1.2 -37		06:52 PM	-0.4 -12
5 Su	01:45 AM	8.0 244	**20** M	01:34 AM	7.2 219
	06:09 AM	2.1 64		06:39 AM	3.4 104
	12:15 PM	9.9 302		12:31 PM	8.6 262
	07:02 PM	-1.5 -46		07:27 PM	-0.4 -12
6 M	01:37 AM	7.9 241	**21** Tu	02:15 AM	7.1 216
	06:55 AM	2.5 76		07:16 AM	3.6 110
	12:58 PM	9.8 299		01:04 PM	8.3 253
	07:51 PM	-1.5 -46		08:04 PM	-0.2 -6
7 Tu	02:32 AM	7.8 238	**22** W	02:58 AM	7.0 213
	07:45 AM	2.8 85		07:56 AM	3.9 119
	01:45 PM	9.5 290		01:39 PM	8.0 244
	08:43 PM	-1.3 -40		08:44 PM	0.1 3
8 W	03:31 AM	7.6 232	**23** Th	03:45 AM	6.8 207
	08:42 AM	3.2 98		08:42 AM	4.0 122
	02:37 PM	9.0 274		02:18 PM	7.6 232
	09:39 PM	-0.9 -27		09:26 PM	0.4 12
9 Th	04:35 AM	7.4 226	**24** F	04:35 AM	6.8 207
	09:49 AM	3.4 104		09:37 AM	4.1 125
	03:39 PM	8.3 253		03:05 PM	7.1 216
	10:40 PM	-0.4 -12		10:13 PM	0.7 21
10 F ◑	05:42 AM	7.4 226	**25** Sa	05:27 AM	6.8 207
	11:08 AM	3.4 104		10:45 AM	4.1 125
	04:50 PM	7.6 232		04:02 PM	6.6 201
	11:45 PM	0.1 3		11:03 PM	1.0 30
11 Sa	06:46 AM	7.6 232	**26** Su ◐	06:17 AM	7.0 213
	12:32 PM	3.1 94		11:59 AM	3.8 116
	06:12 PM	7.1 216		05:15 PM	6.3 192
				11:56 PM	1.3 40
12 Su	12:49 AM	0.5 15	**27** M	07:03 AM	7.4 226
	07:43 AM	7.9 241		01:08 PM	3.2 98
	01:47 PM	2.5 76		06:35 PM	6.1 186
	07:33 PM	6.9 210			
13 M	01:48 AM	0.9 27	**28** Tu	12:50 AM	1.6 49
	08:32 AM	8.2 250		07:44 AM	7.8 238
	02:49 PM	1.7 52		02:07 PM	2.4 73
	08:45 PM	6.8 207		07:51 PM	6.2 189
14 Tu	02:42 AM	1.3 40	**29** W	01:43 AM	1.8 55
	09:14 AM	8.6 262		08:24 AM	8.4 256
	03:41 PM	1.0 30		02:57 PM	1.4 43
	09:47 PM	7.0 213		08:59 PM	6.5 198
15 W	03:29 AM	1.7 52	**30** Th	02:34 AM	2.0 61
	09:52 AM	8.8 268		09:02 AM	9.0 274
	04:25 PM	0.5 15		03:44 PM	0.5 15
	10:41 PM	7.1 216		09:59 PM	7.0 213

December

	Time	Height		Time	Height
	h m	ft cm		h m	ft cm
1 F	03:23 AM	2.2 67	**16** Sa	04:23 AM	3.3 101
	09:42 AM	9.6 293		10:28 AM	9.1 277
	04:29 PM	-0.5 -15		05:26 PM	-0.2 -6
	10:55 PM	7.4 226			
2 Sa	04:11 AM	2.4 73	**17** Su	12:06 AM	7.1 216
	10:23 AM	10.0 305		05:03 AM	3.5 107
	05:15 PM	-1.2 -37		11:01 AM	9.1 277
	11:47 PM	7.7 235		06:01 PM	-0.4 -12
3 Su ○	04:59 AM	2.6 79	**18** M ●	12:44 AM	7.2 219
	11:06 AM	10.4 317		05:40 AM	3.6 110
	06:01 PM	-1.8 -55		11:34 AM	9.0 274
				06:34 PM	-0.4 -12
4 M	12:39 AM	8.0 244	**19** Tu	01:21 AM	7.3 223
	05:48 AM	2.7 82		06:18 AM	3.7 113
	11:51 AM	10.5 320		12:08 PM	8.9 271
	06:48 PM	-2.0 -61		07:08 PM	-0.4 -12
5 Tu	01:30 AM	8.1 247	**20** W	01:58 AM	7.3 223
	06:39 AM	2.9 88		06:56 AM	3.8 116
	12:39 PM	10.3 314		12:42 PM	8.6 262
	07:37 PM	-1.9 -58		07:43 PM	-0.3 -9
6 W	02:23 AM	8.1 247	**21** Th	02:35 AM	7.3 223
	07:33 AM	3.1 94		07:36 AM	3.9 119
	01:29 PM	9.9 302		01:18 PM	8.3 253
	08:27 PM	-1.6 -49		08:18 PM	-0.1 -3
7 Th	03:17 AM	8.1 247	**22** F	03:14 AM	7.3 223
	08:32 AM	3.2 98		08:20 AM	3.9 119
	02:23 PM	9.2 280		01:56 PM	7.9 241
	09:19 PM	-1.1 -34		08:54 PM	0.2 6
8 F	04:13 AM	8.1 247	**23** Sa	03:54 AM	7.3 223
	09:39 AM	3.2 98		09:10 AM	3.9 119
	03:23 PM	8.3 253		02:40 PM	7.4 226
	10:13 PM	-0.4 -12		09:33 PM	0.6 18
9 Sa	05:11 AM	8.1 247	**24** Su	04:35 AM	7.4 226
	10:54 AM	3.1 94		10:08 AM	3.8 116
	04:32 PM	7.5 229		03:32 PM	6.9 210
	11:10 PM	0.4 12		10:15 PM	1.0 30
10 Su ◑	06:08 AM	8.2 250	**25** M	05:18 AM	7.6 232
	12:13 PM	2.8 85		11:15 AM	3.5 107
	05:51 PM	6.8 207		04:37 PM	6.4 195
				11:01 PM	1.5 46
11 M	12:08 AM	1.1 34	**26** Tu ◐	06:02 AM	7.9 241
	07:02 AM	8.4 256		12:24 PM	2.9 88
	01:28 PM	2.2 67		05:56 PM	6.0 183
	07:14 PM	6.4 195		11:53 PM	2.0 61
12 Tu	01:06 AM	1.7 52	**27** W	06:48 AM	8.3 253
	07:52 AM	8.6 262		01:30 PM	2.1 64
	02:32 PM	1.6 49		07:21 PM	6.0 183
	08:33 PM	6.3 192			
13 W	02:02 AM	2.3 70	**28** Th	12:50 AM	2.4 73
	08:36 AM	8.8 268		07:34 AM	8.8 268
	03:25 PM	0.9 27		02:28 PM	1.2 37
	09:40 PM	6.4 195		08:40 PM	6.3 192
14 Th	02:54 AM	2.7 82	**29** F	01:50 AM	2.8 85
	09:16 AM	8.9 271		08:21 AM	9.4 287
	04:10 PM	0.4 12		03:22 PM	0.2 6
	10:36 PM	6.7 204		09:47 PM	6.7 204
15 F	03:40 AM	3.1 94	**30** Sa	02:48 AM	3.0 91
	09:53 AM	9.0 274		09:09 AM	9.9 302
	04:50 PM	0.0 0		04:12 PM	-0.7 -21
	11:24 PM	6.9 210		10:46 PM	7.2 219
			31 Su	03:45 AM	3.1 94
				09:58 AM	10.4 317
				05:00 PM	-1.4 -43
				11:38 PM	7.7 235

Tidal Adjustment Table

The predictions given in the monthly tables are for Yaquina Bay. To determine the predicted time and height of high and low water for the locations given below, add or subtract the indicated times and adjust the heights. Tides for locations north of Newport generally occur later (add time) and tides for locations south of Newport generally occur earlier (subtract) than the tides given in the tables. The times of high/low water up river or up bay occur later than the times at the harbor entrance. Corrections for tidal heights are given in ratios.

Location	High Min	Low Min	High Ratio	Low Ratio
Seaside, 12th Ave. Br., Necanicum R.	6	93	0.67	0.34
Nehalem River, Nehalem	36	82	0.84	0.68
TILLAMOOK BAY				
Barview	1	22	0.88	0.84
Garibaldi	38	37	0.97	0.96
Nestucca Bay, Entrance	14	38	0.89	0.84
SILETZ BAY				
Taft	7	39	0.76	0.68
Kernville	43	79	0.70	0.61
YAQUINA BAY				
South Beach	0	0	1.00	1.00
Toledo	48	65	0.95	0.84
Alsea Bay, Waldport	15	27	0.90	0.91
SIUSLAW RIVER				
Entrance	-12	-1	0.86	0.91
Florence	38	54	0.77	0.75
UMPQUA RIVER				
Entrance	-1	-1	0.81	0.91
Reedsport	65	80	0.79	0.75
COOS BAY				
Charleston	-11	-4	0.89	0.91
Coos Bay	80	84	0.86	0.84
Bandon, Coquille River	-18	-6	0.81	0.84
Port Orford	-28	-23	0.86	0.99
Wedderburn, Rogue River	-32	-18	0.77	0.84
Brookings, Chetco Cove	-40	-30	0.81	0.91

Make sure you know when the tide is coming in so you don't end up stranded.

Watch out for rip currents! These strong currents can pull even the best swimmer out to sea. Watch for dark, choppy water filled with debris. If you get caught, swim parallel to the beach until you get out of the current.

Assume all cliff edges are unstable. Stay behind guard fences and railings, and stay on marked trails. Never walk under an overhanging cliff. Rocks can be slippery even when it isn't raining.

Don't turn your back on the ocean! Watch out for "sneaker waves." Sneaker waves appear suddenly and are impossible to predict. They often come rushing high up on shore with deadly force.

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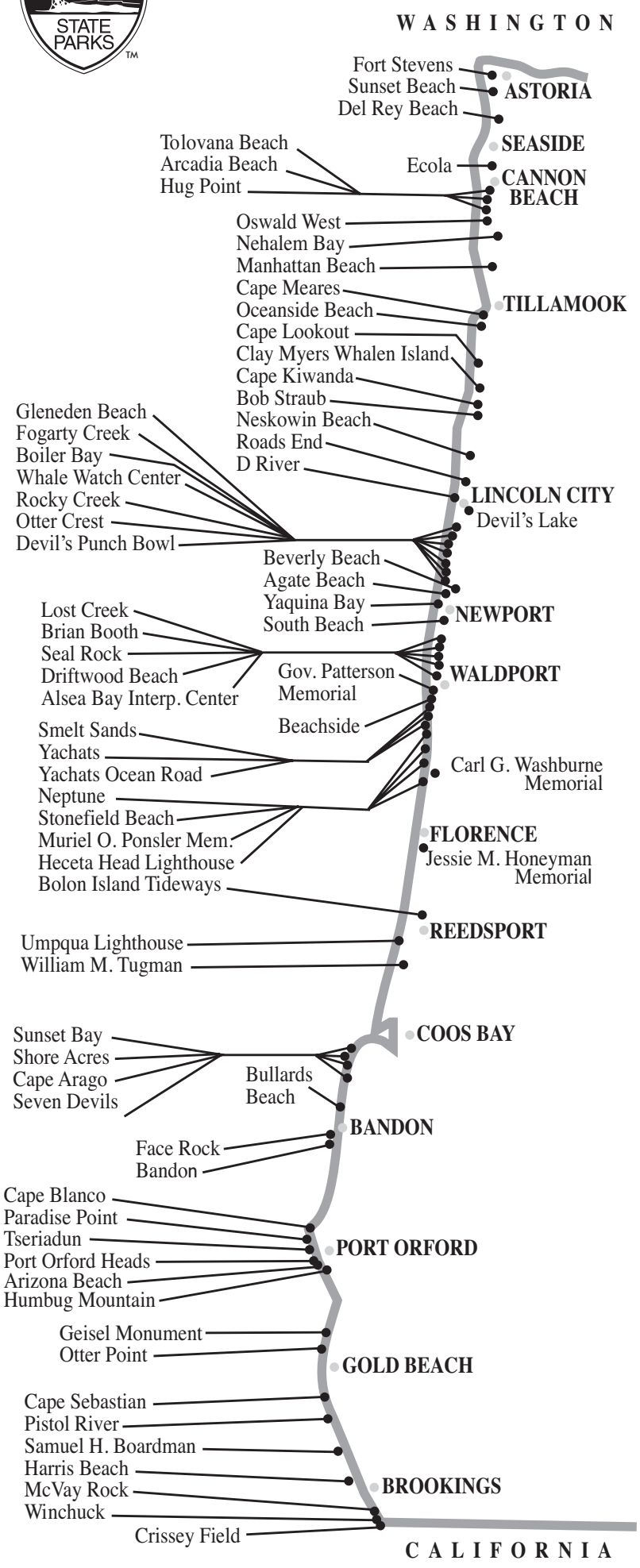

Information:
800-551-6949

Reservations:
800-452-5687

Tide Tables are predictions and are least accurate during storms and extreme high and low tide periods.