



WILMINGTON CAPE FEAR PILOTS ASSOCIATION

Southport, North Carolina

Tides 2019

January				February				March															
Time	Height			Time	Height			Time	Height			Time	Height										
h m	ft	cm		h m	ft	cm		h m	ft	cm		h m	ft	cm									
1 04:08 10:28 Tu 16:24 22:34	4.9 0.3 4.1 -0.1	149 9 125 -3		16 03:26 09:46 W 15:38 21:48	4.5 0.6 3.8 0.1	137 18 116 3		1 05:29 11:51 F 17:47 23:47	4.8 0.5 3.8 0.2	146 15 116 6		16 04:49 11:10 Sa 17:09 23:11	5.1 0.2 4.0 -0.2	155 6 122 -6		1 04:07 10:31 F 16:28 22:34	4.5 0.6 3.7 0.4	137 18 113 12		16 04:25 10:51 Sa 16:51 22:57	4.8 0.3 4.0 0.0	146 9 122 0	
2 05:02 11:22 W 17:19 23:22	5.0 0.3 4.0 -0.1	152 9 122 -3		17 04:20 10:41 Th 16:34 23:38	4.8 0.5 3.8 0.0	146 15 116 0		2 06:17 12:38 Sa 18:34	4.8 0.5 3.8	146 15 116		17 05:46 12:05 Su 18:07	5.3 0.0 4.3	162 0 131		2 05:00 11:22 Sa 17:21 23:23	4.5 0.6 3.8 0.4	137 18 116 12		17 05:26 11:47 Su 17:52 23:56	5.0 0.1 4.2 -0.2	152 3 128 -6	
3 05:53 12:14 Th 18:10	5.0 0.3 3.9	152 9 119		18 05:14 11:34 F 17:31 23:30	5.1 0.3 3.9 -0.2	155 9 119 -6		3 00:32 07:00 Su 13:19 19:16	0.2 4.8 0.4 3.8	6 146 12 116		18 00:08 06:39 M 12:56 19:00	-0.4 5.5 -0.3 4.6	-12 168 -9 140		3 05:49 12:08 Su 18:09	4.6 0.5 3.8	140 15 116		18 06:24 12:41 M 18:50	5.2 -0.2 4.5	158 -6 137	
4 00:09 06:39 F 13:00 18:56	0.0 5.0 0.3 3.8	0 152 9 116		19 06:07 12:27 Sa 18:25	5.3 0.0 4.1	162 0 125		4 01:13 07:38 M 13:57 19:54	0.3 4.8 0.4 3.9	9 146 12 119		19 01:02 07:28 Tu 13:45 19:50	-0.6 5.6 -0.5 4.8	-18 171 -15 146		4 00:09 06:34 M 12:50 18:52	0.3 4.6 4.0 4.0	9 140 12 122		19 00:54 07:19 Tu 13:33 19:44	-0.4 5.3 -0.4 4.9	-12 162 -15 149	
5 00:53 07:21 Sa 13:43 19:37	0.1 5.0 0.4 3.8	3 152 12 116		20 00:23 06:57 Su 13:18 19:16	-0.4 5.6 -0.2 4.3	-12 171 -6 131		5 01:52 08:14 Tu 14:33 20:31	0.3 4.7 0.4 3.9	9 143 12 119		20 01:55 08:16 W 14:33 20:40	-0.6 5.6 -0.6 5.0	-18 171 -18 152		5 00:52 07:13 Tu 13:27 19:30	0.3 4.6 0.4 4.1	9 140 12 125		20 01:49 08:09 W 14:21 20:33	-0.5 5.3 -0.5 5.1	-15 162 -18 155	
6 01:33 08:00 Su 14:22 20:16	0.2 4.9 0.4 3.8	6 149 12 116		21 01:15 07:45 M 14:07 20:05	-0.5 5.7 -0.3 4.5	-15 174 -9 137		6 02:30 08:49 W 15:09 21:08	0.3 4.6 0.3 3.9	9 140 9 119		21 02:48 09:04 Th 15:21 21:32	-0.6 5.4 -0.6 5.1	-18 165 -18 155		6 01:31 07:49 W 14:01 20:06	0.3 4.6 0.3 4.2	9 140 9 128		21 02:42 08:56 Th 15:08 21:21	-0.6 5.3 -0.6 5.3	-18 162 -18 162	
7 02:12 08:37 M 15:01 20:55	0.3 4.8 0.4 3.7	9 146 12 113		22 02:08 08:33 Tu 14:56 20:57	-0.6 5.7 -0.5 4.6	-18 174 -15 140		7 03:09 09:24 Th 15:45 21:46	0.4 4.5 0.3 4.0	12 137 9 122		22 03:42 09:55 F 16:10 22:26	-0.5 5.2 -0.6 5.1	-15 158 -18 155		7 02:09 08:22 Th 14:35 20:40	0.3 4.5 0.3 4.2	9 137 9 128		22 03:33 09:43 F 15:54 22:10	-0.5 5.1 -0.6 5.3	-15 155 -18 162	
8 02:51 09:15 Tu 15:40 21:35	0.4 4.7 0.4 3.7	12 143 12 113		23 03:02 09:24 W 15:46 21:52	-0.6 5.6 -0.5 4.7	-18 171 -15 143		8 03:50 10:01 F 16:21 22:28	0.4 4.4 0.3 4.1	12 134 9 125		23 04:36 10:47 Sa 16:59 23:21	-0.3 4.9 -0.5 5.0	-9 149 -15 152		8 02:47 08:55 F 15:09 21:15	0.3 4.4 0.2 4.3	9 134 6 131		23 04:24 10:31 Sa 16:41 23:00	-0.4 4.8 -0.5 5.2	-12 146 -15 158	
9 03:32 09:54 W 16:19 22:19	0.4 4.6 0.4 3.7	12 140 12 113		24 03:57 10:17 Th 16:37 22:49	-0.4 5.4 -0.5 4.8	-12 165 -15 146		9 04:32 10:39 Sa 16:59 23:11	0.5 4.3 0.3 4.1	15 131 9 125		24 05:30 11:40 Su 17:49	0.0 4.6 -0.3	0 140 -9		9 03:26 09:29 Sa 15:44 21:53	0.3 4.3 0.2 4.4	9 131 6 134		24 05:16 11:22 Su 17:29 23:52	-0.2 4.6 -0.3 5.1	-6 140 -9 155	
10 04:16 10:35 Th 16:58 23:05	0.5 4.5 0.4 3.8	15 137 12 116		25 04:54 11:11 F 17:28 23:47	-0.3 5.1 -0.5 4.8	-9 155 -15 146		10 05:18 11:21 Su 17:39 23:58	0.6 4.1 0.3 4.2	18 125 9 128		25 00:16 06:27 M 12:35 18:43	4.9 0.2 4.2 0.0	149 6 128 0		10 05:08 11:06 Su 17:21 23:35	0.4 4.2 0.2 4.5	12 128 6 137		25 06:08 12:14 M 18:17	0.0 4.3 -0.1	0 131 -3	
11 05:01 11:17 F 17:39 23:52	0.6 4.3 0.4 3.9	18 131 12 119		26 05:52 12:06 Sa 18:20	0.0 4.8 -0.3	0 146 -9		11 06:08 12:07 M 18:24	0.7 4.0 0.3	21 122 9		26 01:13 07:30 Tu 13:33 19:42	4.7 0.5 4.0 0.2	143 15 122 6		11 05:53 11:48 M 18:02	0.4 4.1 0.2	12 125 6		26 00:45 07:01 Tu 13:07 19:09	4.9 0.3 4.0 0.2	149 9 122 6	
12 05:49 12:01 Sa 18:22	0.7 4.2 0.4	21 128 12		27 00:45 06:53 Su 13:03 19:17	4.8 0.2 4.5 -0.2	146 6 137 -6		12 00:50 07:06 Tu 13:00 19:17	4.3 0.7 3.8 0.3	131 21 116 9		27 02:13 08:36 W 14:34 20:44	4.6 0.6 3.8 0.3	140 18 116 9		12 00:22 06:42 Tu 12:36 18:47	4.5 0.5 3.9 0.3	137 15 119 9		27 01:40 07:58 W 14:04 20:06	4.7 0.5 3.8 0.4	143 15 116 12	
13 00:42 06:43 Su 12:49 19:11	4.0 0.8 4.0 0.4	122 24 122 12		28 01:45 08:00 M 14:02 20:17	4.8 0.4 4.2 -0.1	146 12 128 -3		13 01:49 08:12 W 14:02 20:18	4.4 0.7 3.7 0.3	134 21 113 9		28 03:11 09:36 Th 15:32 21:41	4.6 0.6 3.7 0.4	140 18 113 12		13 01:15 07:38 W 13:31 19:42	4.6 0.6 3.8 0.3	140 18 116 9		28 02:37 09:01 Th 15:03 21:09	4.5 0.6 3.7 0.5	137 18 113 15	
14 01:36 07:45 M 13:43 20:04	4.1 0.8 3.9 0.4	125 24 119 12		29 02:44 09:05 Tu 15:02 21:15	4.8 0.5 4.0 0.0	146 15 122 0		14 02:51 09:16 Th 15:07 21:18	4.6 0.6 3.7 0.2	140 18 113 6		14 02:15 08:43 Th 14:37 20:47	4.6 0.6 3.7 0.3	140 18 113 9		14 02:15 08:43 Th 14:37 20:47	4.6 0.6 3.7 0.3	140 18 113 9		29 03:36 10:03 F 16:02 22:10	4.4 0.7 3.7 0.6	134 21 113 18	
15 02:32 08:48 Tu 14:41 20:57	4.3 0.8 3.8 0.3	131 24 116 9		30 03:42 10:05 W 15:59 22:08	4.7 0.5 3.8 0.1	143 15 116 3		15 03:50 10:14 F 16:09 22:15	4.8 0.4 3.8 0.0	146 12 116 0		15 03:22 09:50 F 15:46 21:55	4.7 0.5 3.8 0.2	143 15 116 6		15 03:22 09:50 F 15:46 21:55	4.7 0.5 3.8 0.2	143 15 116 6		30 04:32 10:57 Sa 16:58 23:05	4.3 0.6 3.7 0.5	131 18 113 15	
				31 04:36 10:59 Th 16:54 22:59	4.7 0.5 3.8 0.2	143 15 116 6															31 05:25 11:46 Su 17:50 23:55	4.3 0.5 3.8 0.5	131 15 116 15



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Southport, North Carolina

Tides 2019

April				May				June									
Time	Height		Time	Height		Time	Height		Time	Height		Time	Height				
h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm	h m	ft	cm			
1 06:15 12:31 M 18:39	4.4 0.5 4.0	134 15 122	16 06:02 12:17 Tu 18:33	4.9 -0.3 4.8	149 -9 146	1 00:11 06:22 W 12:31 18:50	0.5 4.2 0.3 4.3	15 128 9 131	16 00:27 06:35 Th 12:42 19:08	-0.1 4.6 -0.4 5.3	-3 140 -12 162	1 01:11 07:12 Sa 13:09 19:40	0.4 3.9 0.1 4.9	12 119 3 149	16 01:58 07:55 Su 13:54 20:23	0.1 4.1 -0.2 5.3	3 125 -6 162
2 00:43 07:01 Tu 13:13 19:23	0.4 4.4 0.4 4.2	12 134 12 128	17 00:41 06:57 W 13:07 19:26	-0.3 5.0 -0.4 5.1	-9 152 -12 155	2 00:57 07:07 Th 13:10 19:32	0.4 4.1 0.2 4.5	12 125 6 137	17 01:22 07:27 F 13:30 19:56	-0.1 4.5 -0.4 5.4	-3 137 -12 165	2 01:56 07:54 Su 13:50 20:19	0.3 3.9 0.0 5.1	9 119 0 155	17 02:44 08:40 M 14:38 21:05	0.1 4.0 0.0 5.2	3 122 0 158
3 01:27 07:42 W 13:51 20:03	0.4 4.4 0.3 4.3	12 134 9 131	18 01:36 07:48 Th 13:56 20:15	-0.4 5.0 -0.5 5.3	-12 152 -15 162	3 01:41 07:47 F 13:47 20:10	0.4 4.1 0.2 4.7	12 125 6 143	18 02:13 08:15 Sa 14:16 20:42	-0.2 4.4 -0.4 5.4	-6 134 -12 165	3 02:40 08:34 M 14:31 20:59	0.2 4.0 -0.1 5.2	6 122 -3 158	18 03:28 09:23 Tu 15:20 21:46	0.2 3.9 0.1 5.0	6 119 3 152
4 02:08 08:20 Th 14:26 20:39	0.3 4.4 0.2 4.5	9 134 6 137	19 02:28 08:35 F 14:41 21:01	-0.4 4.9 -0.5 5.4	-12 149 -15 165	4 02:22 08:24 Sa 14:23 20:45	0.3 4.1 0.1 4.9	9 125 3 149	19 03:01 09:00 Su 15:00 21:25	-0.1 4.3 -0.2 5.3	-3 131 -6 162	4 03:24 09:15 Tu 15:15 21:42	0.1 4.0 -0.1 5.3	3 122 -3 162	19 04:12 10:06 W 16:03 22:28	0.3 3.8 0.2 4.9	9 116 6 149
5 02:46 08:54 F 14:59 ● 21:12	0.3 4.3 0.2 4.6	9 131 6 140	20 03:18 09:21 Sa 15:26 21:47	-0.4 4.7 -0.5 5.4	-12 143 -15 165	5 03:02 08:59 Su 15:00 21:21	0.2 4.1 0.1 5.0	6 125 3 152	20 03:48 09:44 M 15:44 22:09	0.0 4.1 -0.1 5.2	0 125 -3 158	5 04:11 10:01 W 16:03 22:29	0.0 4.0 -0.1 5.3	0 122 -3 162	20 04:54 10:51 Th 16:47 23:12	0.3 3.7 0.4 4.7	9 113 12 143
6 03:25 09:26 Sa 15:33 21:46	0.2 4.2 0.2 4.7	6 128 6 143	21 04:06 10:07 Su 16:12 22:34	-0.2 4.5 -0.3 5.3	-6 137 -9 162	6 03:44 09:35 M 15:38 22:00	0.2 4.0 0.0 5.1	6 122 0 155	21 04:34 10:30 Tu 16:29 22:55	0.1 3.9 0.1 5.0	3 119 3 152	6 05:00 10:54 Th 16:56 23:23	-0.1 4.0 -0.1 5.3	-3 122 -3 162	21 05:37 11:39 F 17:32 23:57	0.4 3.7 0.5 4.6	12 113 15 140
7 04:04 10:00 Su 16:09 22:23	0.2 4.2 0.1 4.7	6 128 3 143	22 04:55 10:56 M 16:58 23:23	-0.1 4.2 -0.1 5.1	-3 128 -3 155	7 04:29 10:17 Tu 16:22 22:45	0.1 4.0 0.0 5.1	3 122 0 155	22 05:20 11:19 W 17:15 23:43	0.2 3.8 0.3 4.8	6 116 9 146	7 05:52 11:54 F 17:53	-0.1 4.1 0.0	-3 125 0	22 06:20 12:27 Sa 18:20	0.4 3.7 0.6	12 113 18
8 04:47 10:38 M 16:48 23:06	0.2 4.1 0.1 4.8	6 125 3 146	23 05:44 11:47 Tu 17:46	0.1 4.0 0.1	3 122 3	8 05:17 11:07 W 17:11 23:38	0.1 3.9 0.1 5.1	3 119 3 155	23 06:06 12:10 Th 18:03	0.3 3.7 0.5	9 113 15	8 00:20 06:45 Sa 12:55 18:52	5.2 -0.1 4.2 0.1	158 -3 128 3	23 00:43 07:04 Su 13:17 19:10	4.4 0.4 3.8 0.7	134 12 116 21
9 05:33 11:24 Tu 17:32 23:56	0.3 4.0 0.2 4.8	9 122 6 146	24 00:14 06:34 W 12:39 18:35	4.8 0.3 3.8 0.4	146 9 116 12	9 06:08 12:05 Th 18:05	0.1 3.9 0.1	3 119 3	24 00:32 06:53 F 13:01 18:53	4.6 0.4 3.7 0.6	140 12 113 18	9 01:18 07:41 Su 13:57 19:58	5.0 -0.1 4.3 0.2	152 -3 131 6	24 01:30 07:51 M 14:09 20:07	4.2 0.5 3.8 0.8	128 15 116 24
10 06:23 12:17 W 18:22	0.3 3.9 0.2	9 119 6	25 01:05 07:26 Th 13:33 19:29	4.6 0.5 3.7 0.6	140 15 113 18	10 00:34 07:02 F 13:06 19:04	5.0 0.1 3.9 0.2	152 3 119 6	25 01:21 07:43 Sa 13:55 19:49	4.4 0.5 3.7 0.8	134 15 113 24	10 02:18 08:41 M 15:00 21:07	4.8 -0.2 4.5 0.2	146 -6 137 6	25 02:20 08:42 Tu 15:03 21:08	4.1 0.4 0.4 0.9	125 12 122 27
11 00:51 07:18 Th 13:16 19:19	4.8 0.4 3.8 0.3	146 12 116 9	26 02:00 08:23 F 14:31 20:30	4.4 0.6 3.6 0.7	134 18 110 21	11 01:35 08:02 Sa 14:11 20:12	4.9 0.1 4.0 0.3	149 3 122 9	26 02:14 08:37 Su 14:51 20:51	4.3 0.5 3.7 0.8	131 15 113 24	11 03:20 09:41 Tu 16:02 22:14	4.7 -0.3 4.7 0.2	143 -9 143 6	26 03:13 09:33 W 15:56 22:07	4.0 0.4 4.1 0.8	122 12 125 24
12 01:52 08:21 F 14:23 ● 20:27	4.8 0.4 3.8 0.3	146 12 116 9	27 02:56 09:22 Sa 15:29 21:33	4.3 0.6 3.7 0.7	131 18 113 21	12 02:38 09:05 Su 15:18 21:23	4.8 0.0 4.2 0.2	146 0 128 6	27 03:08 09:31 M 15:46 21:52	4.1 0.5 3.9 0.8	125 15 119 24	12 04:19 10:36 W 16:59 23:15	4.5 -0.3 4.9 0.2	137 -9 149 6	27 04:05 10:21 Th 16:46 23:00	3.9 0.3 4.3 0.7	119 9 131 21
13 02:59 09:28 Sa 15:32 21:38	4.8 0.3 4.0 0.2	146 9 122 6	28 03:52 10:17 Su 16:24 22:31	4.2 0.6 3.8 0.7	128 18 116 21	13 03:42 10:06 M 16:20 22:29	4.8 -0.1 4.5 0.1	146 -3 137 3	28 04:01 10:21 Tu 16:37 22:46	4.1 0.4 4.1 0.7	125 12 125 21	13 05:16 11:28 Th 17:55	4.4 -0.3 5.1	134 -9 155	28 04:56 11:05 F 17:35 23:51	3.8 0.2 4.6 0.6	116 6 140 18
14 04:03 10:29 Su 16:36 22:43	4.8 0.1 4.2 0.1	146 3 128 3	29 04:45 11:05 M 17:16 23:22	4.2 0.5 3.9 0.6	128 15 119 18	14 04:42 11:00 Tu 17:19 23:30	4.7 -0.3 4.8 0.0	143 -9 146 0	29 04:51 11:05 W 17:26 23:36	4.0 0.3 4.3 0.6	122 9 131 18	14 00:12 06:12 F 12:18 18:48	0.1 4.3 -0.3 5.2	3 131 -9 158	29 05:46 11:50 Sa 18:23	3.8 0.1 4.8	116 3 146
15 05:04 11:24 M 17:36 23:43	4.9 -0.1 4.5 -0.1	149 -3 137 -3	30 05:35 11:49 Tu 18:05	4.2 0.4 4.1	128 12 125	15 05:39 11:52 W 18:15	4.7 -0.4 5.0	143 -12 152	30 05:40 11:47 Th 18:13	3.9 0.3 4.5	119 9 137	15 01:07 07:06 Sa 13:07 19:38	0.1 4.2 -0.3 5.3	3 128 -9 162	30 00:40 06:37 Su 12:35 19:10	0.4 3.8 0.0 5.0	12 116 0 152
									31 00:24 06:27 F 12:28 18:58	0.5 3.9 0.2 4.7	15 119 6 143						



WILMINGTON CAPE FEAR PILOTS ASSOCIATION

Southport, North Carolina

Tides 2019

July				August				September																			
Time	Height			Time	Height			Time	Height			Time	Height														
h m	ft	cm		h m	ft	cm		h m	ft	cm		h m	ft	cm													
1	01:29	0.3	9	16	02:25	0.3	9	1	02:41	-0.2	-6	16	03:17	0.3	9	1	03:52	-0.6	-18	16	03:51	0.3	9				
	07:25	3.9	119		08:20	3.9	119		08:40	4.4	134		09:17	4.0	122		10:03	5.1	155		10:00	4.3	131		10:00	4.3	131
	13:21	-0.1	-3		14:18	0.1	3		14:42	-0.5	-15		15:17	0.3	9		16:14	-0.5	-15		16:11	0.4	12		16:11	0.4	12
	19:56	5.3	162		20:45	5.0	152		21:08	5.6	171		21:35	4.6	140		22:26	5.2	158		22:13	4.2	128		22:13	4.2	128
2	02:17	0.1	3	17	03:07	0.3	9	2	03:29	-0.3	-9	17	03:53	0.3	9	2	04:41	-0.6	-18	17	04:26	0.3	9		04:26	0.3	9
	08:11	4.0	122		09:02	3.8	116		09:30	4.6	140		09:54	4.0	122		10:56	5.2	158		10:35	4.4	134		10:35	4.4	134
	14:08	-0.2	-6		14:59	0.2	6		15:34	-0.5	-15		15:56	0.4	12		17:09	-0.4	-12		16:52	0.4	12		16:52	0.4	12
	20:40	5.4	165		21:24	4.9	149		21:56	5.5	168		22:11	4.5	137		23:19	4.9	149		22:49	4.1	125		22:49	4.1	125
3	03:03	0.0	0	18	03:46	0.3	9	3	04:18	-0.5	-15	18	04:29	0.3	9	3	05:31	-0.5	-15	18	05:02	0.3	9		05:02	0.3	9
	08:57	4.1	125		09:42	3.8	116		10:22	4.7	143		10:32	4.0	122		11:52	5.2	158		11:15	4.4	134		11:15	4.4	134
	14:57	-0.3	-9		15:39	0.3	9		16:29	-0.5	-15		16:36	0.4	12		18:05	-0.2	-6		17:35	0.5	15		17:35	0.5	15
	21:25	5.5	168		22:02	4.8	146		22:48	5.4	165		22:47	4.4	134		20:03	-0.2	-6		23:29	3.9	119		23:29	3.9	119
4	03:51	-0.2	-6	19	04:25	0.4	12	4	05:08	-0.5	-15	19	05:05	0.3	9	4	00:13	4.6	140	19	05:42	0.4	12		05:42	0.4	12
	09:46	4.2	128		10:23	3.8	116		11:19	4.8	146		11:12	4.1	125		06:22	-0.4	-12		12:01	4.4	134		12:01	4.4	134
	15:48	-0.3	-9		16:20	0.4	12		17:26	-0.3	-9		17:18	0.5	15		12:48	5.1	155		18:22	0.5	15		18:22	0.5	15
	22:14	5.5	168		22:42	4.6	140		23:42	5.1	155		23:25	4.2	128		19:02	0.1	3								
5	04:41	-0.3	-9	20	05:05	0.4	12	5	05:59	-0.5	-15	20	05:43	0.3	9	5	01:09	4.3	131	20	00:16	3.8	116		00:16	3.8	116
	10:40	4.3	131		11:06	3.8	116		12:17	4.9	149		11:55	4.1	125		07:16	-0.2	-6		06:25	0.4	12		06:25	0.4	12
	16:43	-0.3	-9		17:03	0.5	15		18:23	-0.2	-6		18:03	0.6	18		13:46	4.9	149		12:51	4.5	137		12:51	4.5	137
	23:07	5.4	165		23:22	4.5	137										20:03	0.3	9		19:15	0.6	18		19:15	0.6	18
6	05:32	-0.3	-9	21	05:44	0.4	12	6	00:37	4.9	149	21	00:06	4.1	125	6	02:08	4.1	125	21	01:08	3.7	113		01:08	3.7	113
	11:38	4.4	134		11:51	3.9	119		06:50	-0.4	-12		06:22	0.4	12		08:15	0.1	3		07:16	0.4	12		07:16	0.4	12
	17:40	-0.2	-6		17:48	0.6	18		13:15	4.9	149		12:40	4.2	128		14:47	4.8	146		13:48	4.5	137		13:48	4.5	137
									19:23	0.1	3		18:50	0.7	21		21:09	0.5	15		20:16	0.7	21		20:16	0.7	21
7	00:02	5.2	158	22	00:04	4.3	131	7	01:33	4.6	140	22	00:50	3.9	119	7	03:10	3.9	119	22	02:10	3.7	113		02:10	3.7	113
	06:24	-0.4	-12		06:24	0.4	12		07:45	-0.3	-9		07:05	0.4	12		09:19	0.2	6		08:18	0.4	12		08:18	0.4	12
	12:38	4.5	137		12:37	3.9	119		14:14	4.9	149		13:30	4.3	131		15:47	4.7	143		14:52	4.6	140		14:52	4.6	140
	18:39	-0.1	-3		18:35	0.7	21		20:28	0.3	9		19:45	0.8	24		22:13	0.5	15		21:22	0.6	18		21:22	0.6	18
8	00:58	5.0	152	23	00:47	4.2	128	8	02:33	4.3	131	23	01:40	3.8	116	8	04:10	3.8	116	23	03:19	3.7	113		03:19	3.7	113
	07:17	-0.4	-12		07:05	0.4	12		08:45	-0.2	-6		07:54	0.4	12		10:20	0.3	9		09:27	0.4	12		09:27	0.4	12
	13:38	4.7	143		13:25	4.0	122		15:15	4.9	149		14:26	4.3	131		16:44	4.6	140		15:56	4.7	143		15:56	4.7	143
	19:41	0.1	3		19:26	0.8	24		21:35	0.4	12		20:48	0.8	24		23:10	0.5	15		22:24	0.4	12		22:24	0.4	12
9	01:56	4.8	146	24	01:33	4.0	122	9	03:34	4.1	125	24	02:39	3.7	113	9	05:07	3.8	116	24	04:23	3.9	119		04:23	3.9	119
	08:14	-0.3	-9		07:51	0.4	12		09:46	-0.1	-3		08:53	0.4	12		11:15	0.3	9		10:30	0.2	6		10:30	0.2	6
	14:39	4.8	146		14:16	4.1	125		16:14	4.9	149		15:26	4.5	137		17:38	4.6	140		16:56	4.8	146		16:56	4.8	146
	20:49	0.2	6		20:24	0.9	27		22:38	0.4	12		21:52	0.7	21						23:19	0.2	6		23:19	0.2	6
10	02:56	4.5	137	25	02:24	3.9	119	10	04:33	3.9	119	25	03:43	3.7	113	10	00:01	0.5	15	25	05:23	4.2	128		05:23	4.2	128
	09:14	-0.3	-9		08:42	0.4	12		10:43	0.0	0		09:54	0.3	9		06:01	3.9	119		11:28	-0.1	-3		11:28	-0.1	-3
	15:40	4.9	149		15:11	4.2	128		17:11	4.8	146		16:25	4.6	140		12:05	0.3	9		17:54	5.0	152		17:54	5.0	152
	21:56	0.3	9		21:26	0.8	24		23:35	0.4	12		22:50	0.5	15		18:29	4.6	140								
11	03:56	4.3	131	26	03:20	3.7	113	11	05:30	3.9	119	26	04:43	3.8	116	11	00:48	0.4	12	26	00:11	-0.1	-3		00:11	-0.1	-3
	10:11	-0.3	-9		09:36	0.4	12		11:36	0.1	3		10:50	0.1	3		06:51	3.9	119		06:21	4.5	137		06:21	4.5	137
	16:38	5.0	152		16:05	4.4	134		18:05	4.8	146		17:22	4.9	149		12:53	0.3	9		12:25	-0.3	-9		12:25	-0.3	-9
	22:58	0.3	9		22:25	0.7	21						23:44	0.3	9		19:15	4.6	140		18:49	5.2	158		18:49	5.2	158
12	04:54	4.1	125	27	04:16	3.7	113	12	00:28	0.4	12	27	05:42	3.9	119	12	01:31	0.4	12	27	01:02	-0.3	-9		01:02	-0.3	-9
	11:05	-0.2	-6		10:27	0.3	9		06:25	3.8	116		11:45	-0.1	-3		07:35	4.0	122		07:15	4.8	146		07:15	4.8	146
	17:34	5.0	152		16:58	4.6	140		12:27	0.1	3		18:18	5.1	155		13:37	0.3	9		13:21	-0.5	-15		13:21	-0.5	-15
	23:55	0.3	9		23:19	0.6	18		18:56	4.8	146						19:56	4.6	140		19:40	5.2	158		19:40	5.2	158
13	05:51	4.0	122	28	05:11	3.7	113	13	01:17	0.4	12	28	00:3														



WILMINGTON CAPE FEAR PILOTS ASSOCIATION

Southport, North Carolina

Tides 2019

October				November				December															
Time	Height			Time	Height			Time	Height			Time	Height										
h m	ft	cm		h m	ft	cm		h m	ft	cm		h m	ft	cm									
1 04:13 10:33 Tu 16:51 22:55	-0.6	-18		16 03:49 10:04 W 16:29 22:18	0.2	6		1 05:24 11:52 F 18:15	0.0	0		16 03:44 10:09 Sa 16:42 23:34	0.2	6		1 04:46 11:13 Su 17:36 23:44	0.3	9		16 04:22 10:47 M 17:15 23:21	0.0	0	
2 05:02 11:26 W 17:45 23:49	-0.4	-12		17 04:26 10:43 Th 17:13 23:00	0.3	9		2 00:19 06:16 Sa 12:46 19:07	3.9	119		17 04:35 11:03 Su 17:34 23:34	0.2	6		2 05:36 12:04 M 18:25	0.5	15		17 05:19 11:43 Tu 18:08	0.1	3	
3 05:53 12:21 Th 18:39	-0.2	-6		18 05:08 11:30 F 18:00 23:51	0.3	9		3 01:15 06:10 Su 12:40 19:04	3.8	116		18 05:32 12:01 M 18:30	0.3	9		3 00:37 06:31 Tu 12:55 19:18	3.7	113		18 00:22 06:21 W 12:42 19:05	4.3	131	
4 00:45 06:46 F 13:17 19:36	4.1	125		19 05:55 12:23 Sa 18:52	0.3	9		4 01:13 07:10 M 13:37 20:03	3.7	113		19 00:38 06:36 Tu 13:03 19:31	3.9	119		4 01:33 07:32 W 13:49 20:13	3.8	116		19 01:25 07:30 Th 13:44 20:05	4.4	134	
5 01:43 07:43 Sa 14:15 20:39	3.9	119		20 00:48 06:49 Su 13:21 19:51	3.7	113		5 02:12 08:15 Tu 14:34 20:59	3.7	113		20 01:44 07:47 W 14:07 20:33	4.1	125		5 02:29 08:34 Th 14:43 21:04	3.9	119		20 02:28 08:39 F 14:45 21:03	4.7	143	
6 02:43 08:47 Su 15:15 21:42	3.8	116		21 01:52 07:53 M 14:25 20:56	3.7	113		6 03:08 09:15 W 15:27 21:49	3.9	119		21 02:48 08:56 Th 15:09 21:29	4.4	134		6 03:21 09:31 F 15:34 21:49	4.1	125		21 03:28 09:44 Sa 15:45 21:58	4.9	149	
7 03:44 09:51 M 16:12 22:38	3.8	116		22 03:01 09:05 Tu 15:31 21:59	3.9	119		7 03:59 10:08 Th 16:17 22:33	4.0	122		22 03:48 09:59 F 16:07 22:21	4.7	143		7 04:11 10:22 Sa 16:23 22:32	4.3	131		22 04:25 10:43 Su 16:43 22:50	5.1	155	
8 04:40 10:48 Tu 17:05 23:28	3.8	116		23 04:06 10:13 W 16:32 22:54	4.1	125		8 04:48 10:56 F 17:05 23:14	4.2	128		23 04:44 10:57 Sa 17:03 23:12	5.0	152		8 04:58 11:10 Su 17:11 23:13	4.5	137		23 05:21 11:40 M 17:39 23:41	5.3	162	
9 05:33 11:39 W 17:56	3.9	119		24 05:06 11:13 Th 17:30 23:46	4.4	134		9 05:34 11:43 Sa 17:50 23:54	4.4	134		24 05:39 11:54 Su 17:58	5.3	162		9 05:43 11:57 M 17:57 23:54	4.6	140		24 06:13 12:33 Tu 18:31	5.4	165	
10 00:13 06:22 Th 12:27 18:43	0.4	12		25 06:03 12:11 F 18:26	4.8	146		10 06:17 12:26 Su 18:31	4.6	140		25 00:02 06:30 M 12:47 18:49	-0.5	-15		10 06:26 12:41 Tu 18:39	4.8	146		25 00:31 07:01 W 13:23 19:19	-0.3	-9	
11 00:55 07:07 F 13:12 19:25	0.3	9		26 00:36 06:57 Sa 13:07 19:19	-0.5	-15		11 00:31 06:55 M 13:07 19:09	0.2	6		26 00:50 07:18 Tu 13:37 19:36	-0.5	-15		11 00:34 07:05 W 13:24 19:18	0.1	3		26 01:17 07:46 Th 14:09 20:04	-0.2	-6	
12 01:33 07:47 Sa 13:53 20:04	0.3	9		27 01:25 07:48 Su 14:01 20:08	-0.6	-18		12 01:07 07:31 Tu 13:47 19:44	0.2	6		27 01:36 08:03 W 14:25 20:22	-0.4	-12		12 01:14 07:43 Th 14:06 19:57	0.1	3		27 02:02 08:29 F 14:53 20:48	-0.1	-3	
13 02:08 08:24 Su 14:32 20:38	0.2	6		28 02:13 08:35 M 14:52 20:55	-0.6	-18		13 01:42 08:05 W 14:26 20:18	0.2	6		28 02:22 08:48 Th 15:13 21:09	-0.3	-9		13 01:55 08:22 F 14:49 20:38	0.0	0		28 02:46 09:11 Sa 15:37 21:34	0.1	3	
14 02:42 08:58 M 15:10 21:11	0.2	6		29 02:59 09:22 Tu 15:42 21:42	-0.6	-18		14 02:18 08:41 Th 15:08 20:55	0.1	3		29 03:09 09:35 F 16:01 21:59	-0.1	-3		14 02:39 09:04 Sa 15:35 21:26	0.0	0		29 03:31 09:55 Su 16:20 22:21	0.2	6	
15 03:15 09:30 Tu 15:48 21:43	0.2	6		30 03:46 10:10 W 16:32 22:31	-0.5	-15		15 02:58 09:21 F 15:54 21:40	0.1	3		30 03:57 10:24 Sa 16:49 22:51	0.1	3		15 03:28 09:53 Su 16:24 22:21	0.0	0		30 04:17 10:40 M 17:02 23:10	0.4	12	
				31 04:34 11:00 Th 17:23 23:24	-0.3	-9														31 05:04 11:26 Tu 17:46	0.5	15	