



compliments of the

CHARLESTON BRANCH PILOTS' ASSOCIATION

Six Concord Street
Charleston, South Carolina 29401
Phone: (843) 577-6695
Fax: (843) 577-0632
Website: www.charlestonpilots.com
e-mail: dispatcher@charlestonpilots.com

***Our Association has provided
twenty-four hour service
to shipping since 1890.***

***POST OFFICE ADDRESS:
P.O. BOX 179
Charleston, SC 29402***

Communication, Orders & Boarding Areas

24 Hour Dispatcher (every day)

Telephone: 843-577-6695 ext. 0

Fax: 843-577-0632

E-Mail: Dispatcher@CharlestonPilots.com

VHF Channel 16 or 14

Call Sign: KYV 743

To order a pilot, contact the Dispatcher at least six hours in advance of an arrival, and three hours in advance of sailing or shifting. Orders must include vessel name & IMO or Official #, terminal or anchorage, billing information, and estimated time.

Fleet

VHF Channel 16 (156.8 MHz) or 13 (156.65 MHz)

Fort Moultrie (75') WDC8025

Fort Ripley (64')

WDH6040

Fort Sumter (75') WCZ9772

Fort Johnson (40')

WDC7305

Internet

PortCall

<http://pcall.charlestonpilots.com>

Web Page

www.CharlestonPilots.com

The office rarely closes, but if unable to reach us, check PortCall for updated information. For even more detailed information, you may request a PortCall account by e-mailing the dispatcher from the e-mail address you wish to use as your account name. Include your name, phone number, and company. PortCall accounts may not be shared outside your company.

Pilot Boarding Areas (2 nm diameter each)

Alpha 32° 35' 35" N / 079° 32' 20" W Centered at Buoy "C"

Bravo 32° 37' 06" N / 079° 35' 30" W Btwn Buoys "2" and "2A"

Charlie 32° 39' 17" N / 079° 40' 06" W Centered at Buoy "6"

Charleston Navigation Company Staff

Pilot Dispatchers:

Christopher Huss	Ethan MacDonald
Raymond Kneer	LeeAnne Ward
Catherine Legette	

Pilot Boat Captains:

John Miles, <i>Port Captain</i>	
Ben Black	Livingston Lowe
Bradley Dinwiddie	Andy Robertson
David Ernst	Will Ventress
Toby Felix	Yan Vazquez
Jess Kunkel	

Office Staff

Contact (843) 577-6695

Captain W. Crayton Walters III, <i>President</i>	<i>ext 12</i>
Captain John E. Cameron, <i>Executive Director</i>	<i>ext 19</i>
Walter Prause, <i>Port Manager</i>	<i>ext 11</i>
Corporate Affairs Manager	<i>ext 13</i>
David Matash, <i>Port Engineer</i>	

Emergency Numbers

U.S. Coast Guard.....	843-740-7050
and Channel 16 VHF	
Emergency (Fire, Police, EMS).....	911
Roper St. Francis Medical Center (Downtown).....	843-724-2000
East Cooper Community Hospital (Mt. Pleasant).....	843-881-0100
Roper St. Francis Medical Center (Mt. Pleasant N.).....	843-606-7000
Charleston Fire Dept.....	843-720-1981
Charleston City Police.....	843-577-7074
Mt. Pleasant Fire Dept.....	843-884-0623
Mt. Pleasant Police.....	843-884-4176
North Charleston Police.....	843-554-5700
Charleston County Sheriff's Office.....	843-202-1700
State Ports Authority Harbor Master.....	843-577-8659

TOWING COMPANIES

McAllister Towing & Transportation.....	843-577-6449
Channel 7A VHF	
Moran Towing.....	843-529-3000
Radio Frequency Channel 19A VHF	
Stevens Towing.....	843-884-2254

LINE HANDLERS

Charleston Port Services.....	843-747-2772
Moran Environmental Services.....	843-797-0402
Coastal Line Service.....	843-200-9112

COMMISSIONERS OF PILOTAGE

LOWER COASTAL AREA

P. O. Box 20096 • Charleston, SC 29413

Telephone:	803-896-4207
E-Mail:	Contact.Pilotage@LLR.SC.gov
Website:	www.LLR.State.SC.US/POL/Pilotage

Additional Port Information

- NOAA Weather Station on WX1 (162.55 MHZ)
- Minimum Channel Width: 500 ft
- Turning Basins: Wando, 1600' (width) x 1900' (length)
Leatherman, 1680' (width) x 2000' (length)
North Charleston, 1400' x 1400'
- Project Depth: Wando & Leatherman Terminals, 52 feet (MLLW)
North Charleston Terminal, 48 feet (MLLW)
- Tidal Difference: 5.4 feet (MLLW to MHW)
- Bridge specifications:
US Rte 17, Arthur Ravenel Bridge, Hog Island Reach
186' above MHW (56.7 m) at piers ~198' (60.4 m) at channel center
I-526, Don Holt Bridge, Filbin Creek Reach
155' above MHW (47.24 m.) at piers.
See page 41 for bridge clearance guidance.

**Visit “Our Services / Port Conditions” at
CharlestonPilots.com for a link to NOAA
real time air gap readings.**

I-526 Wando River
138' above MHW.....(42.06 m.)

Ashley River Fixed Span
55' above MHW.....(16.76 m.)

NOTE: All vessels should maintain Radio Watch on
VHF Channels 13 and 16 when moored and underway.
All moored vessels should tend lines diligently.

**Distances in Nautical Miles
Bar to Bar from Charleston, SC to:**

New York.....	621
Philadelphia	506
Delaware Bay Entrance	530
Chesapeake Bay Entrance	375
Morehead City	203
Wilmington, N.C	111
Georgetown, S.C.....	49
Port Royal	57
Savannah, Ga.....	66
St. Simons Bar (Brunswick, Ga.)	127
St. Johns River Entrance (Jacksonville)	161
Port Everglades	397
Miami	417
Panama Canal, Atlantic	1563

Approximate Distances to Berths

Approximate Distances from Pilot Station “C” To Berths

Anchorage “A”	20.0 NM
Union Pier	22.5 NM
Columbus Street	23.0 NM
Allied Dock.....	25.0 NM
Wando Terminal.....	25.0 NM
Ship Yard River	26.0 NM
Old Navy Base Veterans Term.....	27.0 NM
Other Oil Docks	29-30 NM
North Charleston Terminals	31 NM
Army Transportation Docks, Grain Elevator	32 NM
Naval Weapons Station	35 NM
Cainhoy.....	32.5 NM
Amoco Dock.....	38 NM
Nucor Steel.....	44 NM

JANUARY

	Time		Height			Time		Height	
	h	m	ft	cm		h	m	ft	cm
1	05:41		6.0	183	9	00:19		4.8	146
	12:12		-0.3	-9		06:20		0.2	6
	Th 18:05		4.7	143		F 12:25		4.7	143
						18:42		0.1	3
2	00:09		-0.9	-27	10	01:09		4.7	143
	06:40		6.2	189		07:17		0.5	15
	F 13:08		-0.5	-15		Sa 13:12		4.4	134
	19:02		4.9	149		● 19:29		0.3	9
3	01:06		-1.1	-34	11	02:00		4.7	143
	07:35		6.3	192		08:15		0.6	18
	Sa 14:00		-0.7	-21		Su 14:01		4.1	125
	○ 19:58		5.0	152		20:17		0.4	12
4	02:00		-1.1	-34	12	02:52		4.7	143
	08:29		6.2	189		09:11		0.7	21
	Su 14:50		-0.7	-21		M 14:52		4.0	122
	20:53		5.1	155		21:06		0.4	12
5	02:53		-1.0	-30	13	03:45		4.8	146
	09:19		6.1	186		10:06		0.6	18
	M 15:38		-0.6	-18		Tu 15:47		4.0	122
	21:45		5.0	152		21:56		0.4	12
6	03:43		-0.8	-24	14	04:38		4.9	149
	10:07		5.8	177		10:57		0.5	15
	Tu 16:24		-0.5	-15		W 16:41		4.0	122
	22:37		5.0	152		22:46		0.3	9
7	04:34		-0.5	-15	15	05:28		5.0	152
	10:53		5.4	165		11:45		0.4	12
	W 17:09		-0.3	-9		Th 17:31		4.1	125
	23:27		4.9	149		23:33		0.1	3
8	05:26		-0.1	-3					
	11:39		5.0	152					
	Th 17:55		-0.1	-3					

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

JANUARY

Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm
16	06:13	5.1	155	24	05:25	0.0	0
	12:29	0.2	6		11:20	4.7	143
	F 18:17	4.2	128		Sa 17:47	-0.4	-12
				23:52	5.0	152	
17	00:17	-0.1	-3	25	06:25	0.2	6
	06:55	5.3	162		12:15	4.5	137
	Sa 13:10	0.1	3		Su 18:41	-0.3	-9
	18:58	4.3	131				
18	00:59	-0.2	-6	26	00:53	5.1	155
	07:34	5.3	162		07:33	0.3	9
	Su 13:49	0.0	0		M 13:18	4.3	131
	● 19:38	4.4	134		● 19:42	-0.3	-9
19	01:41	-0.3	-9	27	02:01	5.2	158
	08:11	5.4	165		08:44	0.3	9
	M 14:26	-0.1	-3		Tu 14:28	4.1	125
	20:15	4.5	137		20:46	-0.4	-12
20	02:21	-0.4	-12	28	03:15	5.3	162
	08:46	5.3	162		09:54	0.2	6
	Tu 15:02	-0.2	-6		W 15:43	4.2	128
	20:51	4.6	140		21:53	-0.5	-15
21	03:03	-0.4	-12	29	04:29	5.5	168
	09:20	5.3	162		10:59	0.0	0
	W 15:39	-0.3	-9		Th 16:55	4.3	131
	21:29	4.7	143		22:58	-0.7	-21
22	03:46	-0.3	-9	30	05:34	5.7	174
	09:55	5.1	155		11:58	-0.3	-9
	Th 16:17	-0.4	-12		F 17:57	4.6	140
	22:11	4.8	146		23:58	-0.9	-27
23	04:32	-0.2	-6	31	06:31	5.9	180
	10:34	5.0	152		12:52	-0.5	-15
	F 16:59	-0.4	-12		Sa 18:52	4.9	149
	22:58	4.9	149				

HEIGHTS REFER TO MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

FEBRUARY

	Time		Height			Time		Height	
	h	m	ft	cm		h	m	ft	cm
1 Su O	00:54		-1.1	-34	9 M O	01:09		4.6	140
	07:23		5.9	180		07:30		0.7	21
	13:42		-0.7	-21		13:13		3.9	119
	19:45		5.1	155		19:20		0.5	15
2 M	01:47		-1.1	-34	10 Tu	02:01		4.5	137
	08:11		5.9	180		08:27		0.8	24
	14:28		-0.8	-24		14:07		3.8	116
	20:34		5.2	158		20:13		0.6	18
3 Tu	02:37		-1.1	-34	11 W	02:58		4.5	137
	08:55		5.7	174		09:24		0.8	24
	15:11		-0.7	-21		15:05		3.8	116
	21:21		5.2	158		21:10		0.6	18
4 W	03:24		-0.9	-27	12 Th	03:58		4.6	140
	09:37		5.5	168		10:19		0.8	24
	15:51		-0.6	-18		16:05		3.9	119
	22:06		5.2	158		22:07		0.5	15
5 Th	04:10		-0.5	-15	13 F	04:54		4.8	146
	10:17		5.1	155		11:10		0.6	18
	16:30		-0.4	-12		17:00		4.0	122
	22:50		5.0	152		23:01		0.3	9
6 F	04:55		-0.2	-6	14 Sa	05:44		5.0	152
	10:57		4.8	146		11:56		0.4	12
	17:08		-0.1	-3		17:49		4.2	128
	23:34		4.9	149		23:50		0.0	0
7 Sa	05:43		0.2	6	15 Su	06:27		5.2	158
	11:39		4.5	137		12:38		0.1	3
	17:48		0.1	3		18:32		4.5	137
8 Su	00:20		4.7	143					
	06:35		0.5	15					
	12:24		4.2	128					
	18:31		0.4	12					

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

FEBRUARY

Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm
16	00:36	-0.2	-6	24	00:40	5.3	162
	07:07	5.3	162		07:22	0.4	12
M	13:17	-0.1	-3	Tu	13:11	4.2	128
	19:13	4.7	143	●	19:25	-0.1	-3
17	01:21	-0.4	-12	25	01:52	5.2	158
	07:44	5.4	165		08:33	0.4	12
Tu	13:55	-0.3	-9	W	14:24	4.1	125
●	19:52	5.0	152	20:34	-0.1	-3	
18	02:04	-0.6	-18	26	03:07	5.3	162
	08:21	5.4	165		09:41	0.3	9
W	14:33	-0.5	-15	Th	15:39	4.3	131
	20:30	5.2	158	21:43	-0.2	-6	
19	02:48	-0.6	-18	27	04:21	5.4	165
	08:57	5.3	162		10:45	0.1	3
Th	15:11	-0.6	-18	F	16:48	4.5	137
	21:10	5.3	162	22:48	-0.4	-12	
20	03:34	-0.5	-15	28	05:24	5.5	168
	09:35	5.2	158		11:41	-0.1	-3
F	15:52	-0.6	-18	Sa	17:48	4.9	149
	21:53	5.4	165	23:48	-0.6	-18	
21	04:21	-0.3	-9				
	10:18	4.9	149				
Sa	16:35	-0.6	-18				
	22:41	5.5	168				
22	05:14	-0.1	-3				
	11:06	4.7	143				
Su	17:23	-0.4	-12				
	23:36	5.4	165				
23	06:15	0.2	6				
	12:04	4.4	134				
M	18:20	-0.3	-9				

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

MARCH

	Time		Height			Time		Height	
	h	m	ft	cm		h	m	ft	cm
1	06:17		5.7	174	9	00:30		5.0	152
	12:31		-0.4	-12		06:53		0.7	21
	Su 18:39		5.2	158		M 12:40		4.2	128
						18:37		0.6	18
2	00:42		-0.8	-24	10	01:16		4.8	146
	07:04		5.7	174		07:44		0.9	27
	M 13:17		-0.5	-15		Tu 13:29		4.0	122
	19:27		5.4	165		19:25		0.8	24
3	01:31		-0.8	-24	11	02:09		4.6	140
	07:46		5.7	174		08:39		1.1	34
	Tu 14:00		-0.6	-18		W 14:24		3.9	119
	○ 20:11		5.6	171		● 20:22		0.9	27
4	02:18		-0.7	-21	12	03:08		4.6	140
	08:26		5.5	168		09:37		1.1	34
	W 14:39		-0.5	-15		Th 15:22		3.9	119
	20:53		5.6	171		21:24		0.9	27
5	03:02		-0.6	-18	13	04:10		4.6	140
	09:04		5.3	162		10:34		1.0	30
	Th 15:16		-0.4	-12		F 16:24		4.0	122
	21:33		5.5	168		22:27		0.8	24
6	03:44		-0.3	-9	14	05:11		4.8	146
	09:41		5.0	152		11:27		0.8	24
	F 15:50		-0.2	-6		Sa 17:23		4.3	131
	22:11		5.4	165		23:26		0.5	15
7	04:26		0.0	0	15	06:04		5.0	152
	10:19		4.7	143		12:15		0.5	15
	Sa 16:23		0.1	3		Su 18:15		4.6	140
	22:50		5.2	158					
8	06:08		0.3	9					
	11:58		4.5	137					
	Su 17:58		0.4	12					

*Daylight Saving time begins March 8.

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

MARCH

Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm
16	00:21	0.2	6	24	00:28	5.8	177
	06:50	5.2	158		07:06	0.2	6
M	12:59	0.2	6	Tu	13:03	4.5	137
	19:01	5.0	152		19:07	0.0	0
17	01:11	-0.1	-3	25	01:35	5.6	171
	07:32	5.4	165		08:13	0.4	12
Tu	13:40	-0.1	-3	W	14:13	4.4	134
	19:44	5.3	162	☉	20:14	0.2	6
18	01:59	-0.3	-9	26	02:47	5.4	165
	08:12	5.5	168		09:21	0.5	15
W	14:21	-0.4	-12	Th	15:24	4.5	137
	20:26	5.7	174		21:25	0.2	6
19	02:46	-0.5	-15	27	03:58	5.4	165
	08:52	5.5	168		10:26	0.4	12
Th	15:02	-0.6	-18	F	16:34	4.7	143
	● 21:08	5.9	180		22:33	0.2	6
20	03:34	-0.5	-15	28	05:05	5.4	165
	09:34	5.4	165		11:25	0.3	9
F	15:44	-0.7	-21	Sa	17:38	5.0	152
	21:52	6.1	186		23:37	0.0	0
21	04:22	-0.5	-15	29	06:04	5.5	168
	10:18	5.2	158		12:18	0.1	3
Sa	16:28	-0.7	-21	Su	18:33	5.3	162
	22:38	6.1	186				
22	05:12	-0.3	-9	30	00:34	-0.2	-6
	11:06	5.0	152		06:53	5.5	168
Su	17:15	-0.5	-15	M	13:05	-0.1	-3
	23:30	6.0	183		19:21	5.6	171
23	06:06	0.0	0	31	01:25	-0.3	-9
	12:00	4.7	143		07:37	5.5	168
M	18:07	-0.3	-9	Tu	13:48	-0.2	-6
					20:05	5.8	177

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

APRIL

	Time		Height			Time		Height	
	h	m	ft	cm		h	m	ft	cm
1	02:13		-0.3	-9	9	01:20		4.9	149
	08:17		5.4	165		07:54		1.2	37
	W 14:27		-0.3	-9		Th 13:44		4.1	125
	20:45		5.9	180		19:38		1.1	34
2	02:58		-0.3	-9	10	02:17		4.8	146
	08:55		5.3	162		08:50		1.2	37
	Th 15:04		-0.2	-6		F 14:41		4.2	128
	○ 21:24		5.9	180		● 20:41		1.1	34
3	03:40		-0.2	-6	11	03:17		4.8	146
	09:32		5.1	155		09:45		1.1	34
	F 15:39		0.0	0		Sa 15:40		4.3	131
	22:00		5.8	177		21:46		1.0	30
4	04:19		0.0	0	12	04:17		4.9	149
	10:08		4.9	149		10:37		0.8	24
	Sa 16:12		0.2	6		Su 16:40		4.6	140
	22:35		5.7	174		22:49		0.8	24
5	04:58		0.3	9	13	05:14		5.0	152
	10:45		4.7	143		11:28		0.5	15
	Su 16:44		0.4	12		M 17:36		5.0	152
	23:11		5.5	168		23:49		0.5	15
6	05:36		0.5	15	14	06:05		5.2	158
	11:23		4.5	137		12:15		0.2	6
	M 17:18		0.6	18		Tu 18:26		5.5	168
	23:48		5.2	158					
7	06:17		0.8	24	15	00:44		0.2	6
	12:05		4.3	131		06:53		5.3	162
	Tu 17:56		0.8	24		W 13:01		-0.2	-6
						19:13		5.9	180
8	00:30		5.0	152					
	07:03		1.0	30					
	W 12:51		4.2	128					
	18:42		1.0	30					

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

APRIL

Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm
16	01:37	-0.1	-3	24	02:36	5.6	171
	07:38	5.4	165		09:04	0.4	12
	Th 13:47	-0.5	-15		F 15:17	4.8	146
	19:59	6.3	192		☉ 21:13	0.4	12
17	02:28	-0.3	-9	25	03:39	5.4	165
	08:24	5.4	165		10:03	0.3	9
	F 14:33	-0.6	-18		Sa 16:20	5.0	152
	● 20:46	6.5	198		22:19	0.4	12
18	03:19	-0.4	-12	26	04:39	5.3	162
	09:13	5.3	162		10:57	0.2	6
	Sa 15:20	-0.7	-21		Su 17:19	5.3	162
	21:35	6.6	201		23:20	0.3	9
19	04:10	-0.4	-12	27	05:33	5.3	162
	10:04	5.2	158		11:47	0.1	3
	Su 16:09	-0.6	-18		M 18:11	5.6	171
	22:27	6.5	198				
20	05:02	-0.3	-9	28	00:15	0.2	6
	10:59	5.0	152		06:21	5.2	158
	M 17:00	-0.4	-12		Tu 12:32	0.0	0
	23:23	6.3	192		18:57	5.8	177
21	05:57	0.0	0	29	01:05	0.1	3
	11:59	4.9	149		07:04	5.1	155
	Tu 17:55	-0.2	-6		W 13:13	0.0	0
					19:38	6.0	183
22	00:24	6.1	186	30	01:52	0.1	3
	06:57	0.2	6		07:44	5.1	155
	W 13:04	4.7	143		Th 13:52	0.0	0
	18:57	0.1	3		20:17	6.0	183
23	01:30	5.8	177				
	08:01	0.4	12				
	Th 14:11	4.7	143				
	20:05	0.3	9				

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

MAY

	Time		Height			Time		Height		
	h	m	ft	cm		h	m	ft	cm	
1	02:35		0.1	3	9	01:31		5.0	152	
	08:22		5.0	152			08:06		0.9	27
	F 14:29		0.1	3		Sa 14:02		4.4	134	
	○ 20:54		6.0	183		● 20:05		1.1	34	
2	03:16		0.1	3	10	02:25		4.9	149	
	09:01		4.8	146			08:57		0.8	24
	Sa 15:04		0.2	6		Su 14:58		4.6	140	
	21:30		5.9	180		21:10		1.0	30	
3	03:55		0.2	6	11	03:21		4.9	149	
	09:39		4.7	143			09:49		0.6	18
	Su 15:38		0.4	12		M 15:56		4.9	149	
	22:05		5.7	174		22:15		0.8	24	
4	04:33		0.4	12	12	04:19		4.9	149	
	10:17		4.6	140			10:41		0.3	9
	M 16:12		0.5	15		Tu 16:54		5.3	162	
	22:41		5.6	171		23:18		0.6	18	
5	05:10		0.6	18	13	05:17		5.0	152	
	10:56		4.4	134			11:33		-0.1	-3
	Tu 16:48		0.7	21		W 17:50		5.8	177	
	23:17		5.4	165						
6	05:48		0.8	24	14	00:18		0.3	9	
	11:35		4.3	131			06:13		5.1	155
	W 17:26		0.8	24		Th 12:24		-0.3	-9	
	23:56		5.2	158		18:43		6.2	189	
7	06:29		0.9	27	15	01:15		0.0	0	
	12:19		4.2	128			07:06		5.1	155
	Th 18:11		0.9	27		F 13:15		-0.6	-18	
						19:35		6.6	201	
8	00:41		5.1	155						
	07:16		1.0	30						
	F 13:08		4.3	131						
	19:04		1.0	30						

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

CHARLESTON, S.C. 2026
Times and Heights of High and Low Waters

MAY

Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm
16	02:10	-0.3	-9	24	03:10	5.3	162
	08:00	5.2	158		09:32	0.2	6
Sa	14:07	-0.7	-21	Su	15:57	5.3	162
●	20:27	6.7	204		21:58	0.5	15
17	03:04	-0.4	-12	25	04:03	5.1	155
	08:55	5.1	155		10:23	0.1	3
Su	14:59	-0.8	-24	M	16:51	5.4	165
	21:22	6.7	204		22:57	0.5	15
18	03:58	-0.4	-12	26	04:54	4.9	149
	09:52	5.1	155		11:10	0.1	3
M	15:53	-0.7	-21	Tu	17:42	5.6	171
	22:19	6.6	201		23:51	0.4	12
19	04:51	-0.4	-12	27	05:43	4.8	146
	10:52	5.0	152		11:55	0.1	3
Tu	16:47	-0.5	-15	W	18:27	5.8	177
	23:17	6.4	195				
20	05:45	-0.2	-6	28	00:41	0.4	12
	11:53	4.9	149		06:28	4.7	143
W	17:44	-0.2	-6	Th	12:37	0.1	3
					19:09	5.9	180
21	00:17	6.1	186	29	01:27	0.3	9
	06:42	0.0	0		07:11	4.7	143
Th	12:56	4.9	149	F	13:17	0.2	6
	18:46	0.1	3		19:48	5.9	180
22	01:17	5.8	177	30	02:10	0.3	9
	07:41	0.1	3		07:52	4.6	140
F	13:59	5.0	152	Sa	13:56	0.2	6
	19:51	0.3	9		20:27	5.9	180
23	02:15	5.5	168	31	02:52	0.3	9
	08:38	0.2	6		08:33	4.5	137
Sa	14:59	5.1	155	Su	14:33	0.3	9
○	20:56	0.4	12		21:05	5.8	177

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

CHARLESTON, S.C. 2026
Times and Heights of High and Low Waters

JUNE

	Time		Height			Time		Height	
	h	m	ft	cm		h	m	ft	cm
1	03:31		0.3	9	9	02:35		4.9	149
	09:13		4.5	137		09:07		0.1	3
M	15:10		0.4	12	Tu	15:18		5.2	158
	21:42		5.7	174		21:45		0.7	21
2	04:09		0.4	12	10	03:33		4.8	146
	09:53		4.4	134		10:01		-0.1	-3
Tu	15:47		0.4	12	W	16:18		5.6	171
	22:18		5.5	168		22:51		0.5	15
3	04:45		0.5	15	11	04:35		4.8	146
	10:31		4.3	131		10:56		-0.3	-9
W	16:24		0.5	15	Th	17:19		5.9	180
	22:54		5.4	165		23:55		0.3	9
4	05:22		0.6	18	12	05:39		4.8	146
	11:10		4.3	131		11:53		-0.5	-15
Th	17:04		0.6	18	F	18:19		6.3	192
	23:29		5.2	158					
5	06:00		0.6	18	13	00:55		0.0	0
	11:51		4.3	131		06:41		4.8	146
F	17:47		0.7	21	Sa	12:50		-0.7	-21
						19:16		6.5	198
6	00:08		5.1	155	14	01:53		-0.2	-6
	06:41		0.6	18		07:40		4.9	149
Sa	12:36		4.4	134	Su	13:47		-0.8	-24
	18:38		0.8	24		20:13		6.7	204
7	00:52		5.0	152	15	02:49		-0.4	-12
	07:27		0.5	15		08:40		5.0	152
Su	13:27		4.6	140	M	14:43		-0.8	-24
	19:36		0.9	27		● 21:11		6.7	204
8	01:42		5.0	152					
	08:16		0.3	9					
M	14:21		4.9	149					
	● 20:40		0.8	24					

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

CHARLESTON, S.C. 2026
Times and Heights of High and Low Waters

JUNE

Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm
16	03:43	-0.5	-15	24	04:13	4.5	137
	09:41	5.0	152		10:30	0.2	6
Tu	15:39	-0.8	-24	W	17:07	5.5	168
	22:09	6.5	198		23:22	0.7	21
17	04:36	-0.5	-15	25	05:03	4.4	134
	10:41	5.0	152		11:16	0.3	9
W	16:35	-0.6	-18	Th	17:54	5.6	171
	23:05	6.3	192				
18	05:28	-0.4	-12	26	00:12	0.6	18
	11:40	5.1	155		05:52	4.4	134
Th	17:31	-0.4	-12	F	12:00	0.3	9
					18:39	5.6	171
19	00:00	6.0	183	27	00:59	0.5	15
	06:20	-0.3	-9		06:39	4.4	134
F	12:39	5.1	155	Sa	12:44	0.3	9
	18:29	0.0	0		19:21	5.7	174
20	00:53	5.7	174	28	01:44	0.5	15
	07:13	-0.1	-3		07:24	4.4	134
Sa	13:37	5.2	158	Su	13:26	0.3	9
	19:30	0.3	9		20:02	5.7	174
21	01:45	5.4	165	29	02:26	0.4	12
	08:05	0.0	0		08:07	4.4	134
Su	14:33	5.2	158	M	14:06	0.3	9
☉	20:32	0.5	15	○	20:42	5.7	174
22	02:35	5.0	152	30	03:05	0.4	12
	08:55	0.1	3		08:49	4.4	134
M	15:26	5.3	162	Tu	14:46	0.3	9
	21:31	0.6	18		21:20	5.6	171
23	03:24	4.8	146				
	09:43	0.1	3				
Tu	16:17	5.4	165				
	22:28	0.7	21				

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

JULY

	Time		Height			Time		Height	
	h	m	ft	cm		h	m	ft	cm
1	03:43		0.4	12	9	03:02		4.7	143
	09:29		4.4	134		09:29		-0.2	-6
	W 15:25		0.3	9		Th 15:50		5.7	174
	21:57		5.5	168		22:30		0.6	18
2	04:19		0.4	12	10	04:07		4.6	140
	10:07		4.4	134		10:29		-0.3	-9
	Th 16:04		0.4	12		F 16:56		6.0	183
	22:31		5.4	165		23:36		0.4	12
3	04:54		0.4	12	11	05:17		4.6	140
	10:45		4.4	134		11:31		-0.5	-15
	F 16:45		0.4	12		Sa 18:02		6.2	189
	23:04		5.3	162					
4	05:30		0.3	9	12	00:38		0.2	6
	11:24		4.5	137		06:24		4.7	143
	Sa 17:28		0.5	15		Su 12:32		-0.6	-18
	23:39		5.2	158		19:04		6.4	195
5	06:08		0.3	9	13	01:37		-0.1	-3
	12:07		4.7	143		07:27		4.9	149
	Su 18:17		0.7	21		M 13:32		-0.7	-21
						20:02		6.6	201
6	00:20		5.1	155	14	02:32		-0.3	-9
	06:52		0.2	6		08:27		5.1	155
	M 12:56		4.9	149		Tu 14:30		-0.8	-24
	19:14		0.8	24		● 20:58		6.6	201
7	01:08		4.9	149	15	03:25		-0.4	-12
	07:40		0.0	0		09:26		5.2	158
	Tu 13:50		5.2	158		W 15:26		-0.7	-21
	● 20:17		0.8	24		21:53		6.5	198
8	02:02		4.8	146					
	08:33		-0.1	-3					
	W 14:48		5.5	168					
	21:23		0.7	21					

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

JULY

Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm
16	04:15	-0.5	-15	24	04:24	4.3	131
	10:24	5.3	162		10:36	0.6	18
Th	16:20	-0.6	-18	F	17:19	5.4	165
	22:44	6.2	189		23:40	0.9	27
17	05:03	-0.4	-12	25	05:18	4.3	131
	11:19	5.4	165		11:25	0.6	18
F	17:13	-0.3	-9	Sa	18:08	5.5	168
	23:33	5.9	180				
18	05:50	-0.3	-9	26	00:28	0.8	24
	12:13	5.4	165		06:09	4.4	134
Sa	18:07	0.1	3	Su	12:12	0.5	15
					18:54	5.6	171
19	00:21	5.6	171	27	01:13	0.7	21
	06:37	-0.1	-3		06:57	4.5	137
Su	13:06	5.4	165	M	12:58	0.4	12
	19:03	0.4	12		19:37	5.7	174
20	01:08	5.2	158	28	01:56	0.6	18
	07:25	0.1	3		07:41	4.6	140
M	13:58	5.4	165	Tu	13:41	0.4	12
	20:01	0.7	21		20:17	5.7	174
21	01:55	4.9	149	29	02:35	0.5	15
	08:12	0.3	9		08:23	4.7	143
Tu	14:48	5.3	162	W	14:23	0.3	9
☉	20:59	0.9	27	○	20:55	5.8	177
22	02:43	4.6	140	30	03:12	0.4	12
	09:00	0.4	12		09:03	4.7	143
W	15:38	5.3	162	Th	15:04	0.3	9
	21:54	1.0	30		21:31	5.7	174
23	03:32	4.4	134	31	03:48	0.3	9
	09:47	0.5	15		09:41	4.8	146
Th	16:28	5.4	165	F	15:45	0.3	9
	22:48	1.0	30		22:04	5.6	171

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

AUGUST

	Time		Height			Time		Height	
	h	m	ft	cm		h	m	ft	cm
1	04:23		0.3	9	9	05:07		4.8	146
	10:18		5.0	152		11:18		-0.2	-6
	Sa 16:27		0.4	12		Su 17:52		6.3	192
	22:37		5.5	168					
2	04:59		0.2	6	10	00:23		0.4	12
	10:57		5.1	155		06:15		5.0	152
	Su 17:12		0.5	15		M 12:21		-0.3	-9
	23:13		5.4	165		18:54		6.5	198
3	05:38		0.1	3	11	01:20		0.2	6
	11:40		5.3	162		07:17		5.2	158
	M 18:01		0.7	21		Tu 13:20		-0.5	-15
	23:54		5.2	158		19:49		6.6	201
4	06:21		0.1	3	12	02:13		-0.1	-3
	12:29		5.5	168		08:14		5.5	168
	Tu 18:56		0.8	24		W 14:17		-0.5	-15
						● 20:41		6.6	201
5	00:43		5.0	152	13	03:02		-0.2	-6
	07:11		0.1	3		09:08		5.7	174
	W 13:25		5.6	171		Th 15:11		-0.5	-15
	20:00		0.9	27		21:30		6.4	195
6	01:40		4.8	146	14	03:49		-0.2	-6
	08:07		0.1	3		10:01		5.8	177
	Th 14:27		5.8	177		F 16:02		-0.3	-9
	● 21:07		0.9	27		22:16		6.2	189
7	02:44		4.7	143	15	04:33		-0.2	-6
	09:08		0.0	0		10:51		5.8	177
	F 15:34		5.9	180		Sa 16:52		0.0	0
	22:15		0.8	24		23:01		5.9	180
8	03:54		4.7	143					
	10:12		0.0	0					
	Sa 16:44		6.1	186					
	23:21		0.7	21					

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

AUGUST

Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm
16	05:15	0.0	0	24	05:38	4.7	143
	11:40	5.8	177		11:41	0.9	27
Su	17:41	0.4	12	M	18:23	5.7	174
	23:44	5.5	168				
17	05:56	0.2	6	25	00:38	1.1	34
	12:28	5.7	174		06:28	4.8	146
M	18:32	0.7	21	Tu	12:30	0.7	21
					19:07	5.9	180
18	00:28	5.2	158	26	01:20	0.9	27
	06:39	0.5	15		07:13	5.0	152
Tu	13:16	5.6	171	W	13:15	0.6	18
	19:26	1.1	34		19:46	6.0	183
19	01:14	4.9	149	27	01:59	0.7	21
	07:24	0.8	24		07:54	5.2	158
W	14:05	5.5	168	Th	13:59	0.5	15
	20:21	1.3	40		20:24	6.0	183
20	02:03	4.7	143	28	02:37	0.5	15
	08:12	0.9	27		08:33	5.4	165
Th	14:56	5.4	165	F	14:43	0.4	12
	21:16	1.4	43		20:59	6.0	183
21	02:54	4.5	137	29	03:14	0.4	12
	09:03	1.0	30		09:12	5.6	171
F	15:48	5.4	165	Sa	15:27	0.4	12
	22:11	1.4	43		21:34	5.9	180
22	03:48	4.5	137	30	03:51	0.2	6
	09:56	1.1	34		09:51	5.8	177
Sa	16:42	5.4	165	Su	16:11	0.5	15
	23:03	1.4	43		22:11	5.7	174
23	04:43	4.5	137	31	04:29	0.2	6
	10:49	1.0	30		10:32	5.9	180
Su	17:35	5.5	168	M	16:57	0.6	18
	23:53	1.2	37		22:50	5.5	168

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

SEPTEMBER

	Time		Height			Time		Height	
	h	m	ft	cm		h	m	ft	cm
1	05:10		0.2	6	9	01:00		0.4	12
	11:17		6.0	183		07:06		5.8	177
	Tu 17:47		0.8	24		W 13:09		0.0	0
	23:36		5.3	162		19:31		6.5	198
2	05:56		0.2	6	10	01:49		0.2	6
	12:09		6.0	183		07:58		6.1	186
	W 18:44		1.0	30		Th 14:03		-0.1	-3
					20:18		6.5	198	
3	00:29		5.1	155	11	02:34		0.1	3
	06:49		0.3	9		08:47		6.2	189
	Th 13:10		6.0	183		F 14:54		0.0	0
	19:48		1.1	34		● 21:02		6.3	192
4	01:32		5.0	152	12	03:18		0.1	3
	07:50		0.4	12		09:34		6.3	192
	F 14:17		6.1	186		Sa 15:42		0.2	6
	● 20:57		1.2	37		21:44		6.1	186
5	02:41		4.9	149	13	03:58		0.2	6
	08:56		0.5	15		10:19		6.3	192
	Sa 15:27		6.1	186		Su 16:28		0.4	12
	22:04		1.1	34		22:25		5.8	177
6	03:53		5.0	152	14	04:37		0.4	12
	10:03		0.4	12		11:03		6.2	189
	Su 16:38		6.2	189		M 17:13		0.7	21
	23:08		0.9	27		23:06		5.5	168
7	05:04		5.2	158	15	05:15		0.7	21
	11:09		0.3	9		11:46		6.0	183
	M 17:43		6.4	195		Tu 17:59		1.1	34
					23:49		5.2	158	
8	00:07		0.7	21					
	06:09		5.5	168					
	Tu 12:12		0.1	3					
	18:40		6.5	198					

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

SEPTEMBER

Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm
16	05:53	0.9	27	24	00:39	1.0	30
	12:31	5.8	177		06:40	5.5	168
	W 18:47	1.4	43		Th 12:48	0.8	24
				19:10	6.0	183	
17	00:34	5.0	152	25	01:19	0.8	24
	06:35	1.2	37		07:23	5.8	177
	Th 13:19	5.6	171	F 13:35	0.7	21	
	19:39	1.6	49	19:48	6.1	186	
18	01:23	4.8	146	26	01:59	0.5	15
	07:23	1.4	43		08:03	6.1	186
	F 14:11	5.5	168	Sa 14:21	0.5	15	
	☉ 20:34	1.8	55	○ 20:26	6.1	186	
19	02:16	4.7	143	27	02:39	0.3	9
	08:18	1.5	46		08:43	6.4	195
	Sa 15:05	5.5	168	Su 15:08	0.5	15	
	21:29	1.8	55	21:06	6.0	183	
20	03:11	4.7	143	28	03:20	0.2	6
	09:15	1.5	46		09:25	6.5	198
	Su 16:00	5.5	168	M 15:56	0.5	15	
	22:21	1.7	52	21:48	5.8	177	
21	04:08	4.8	146	29	04:02	0.1	3
	10:12	1.4	43		10:11	6.6	201
	M 16:54	5.6	171	Tu 16:44	0.6	18	
	23:11	1.5	46	22:34	5.6	171	
22	05:03	5.0	152	30	04:48	0.2	6
	11:07	1.2	37		11:01	6.6	201
	Tu 17:44	5.8	177	W 17:37	0.8	24	
	23:56	1.3	40	23:26	5.4	165	
23	05:54	5.2	158				
	11:59	1.0	30				
	W 18:29	5.9	180				

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

OCTOBER

	Time		Height			Time		Height	
	h	m	ft	cm		h	m	ft	cm
1	05:38		0.3	9	9	01:21		0.3	9
	11:58		6.4	195		07:39		6.4	195
	Th 18:34		1.0	30		F 13:47		0.3	9
						19:51		6.2	189
2	00:25		5.2	158	10	02:04		0.3	9
	06:35		0.5	15		08:23		6.6	201
	F 13:03		6.3	192		Sa 14:35		0.3	9
	19:39		1.2	37		● 20:32		6.0	183
3	01:34		5.1	155	11	02:45		0.3	9
	07:39		0.7	21		09:06		6.6	201
	Sa 14:13		6.2	189		Su 15:20		0.5	15
	● 20:46		1.2	37		21:12		5.8	177
4	02:45		5.1	155	12	03:23		0.5	15
	08:48		0.7	21		09:46		6.5	198
	Su 15:22		6.2	189		M 16:04		0.7	21
	21:51		1.1	34		21:51		5.6	171
5	03:54		5.3	162	13	04:00		0.7	21
	09:56		0.7	21		10:26		6.3	192
	M 16:28		6.2	189		Tu 16:46		0.9	27
	22:51		0.9	27		22:31		5.3	162
6	04:59		5.6	171	14	04:36		0.9	27
	11:01		0.6	18		11:06		6.1	186
	Tu 17:28		6.3	192		W 17:27		1.2	37
	23:46		0.7	21		23:12		5.1	155
7	05:59		5.9	180	15	05:13		1.1	34
	12:01		0.4	12		11:48		5.8	177
	W 18:21		6.3	192		Th 18:10		1.4	43
						23:56		4.9	149
8	00:36		0.5	15					
	06:52		6.2	189					
	Th 12:56		0.3	9					
	19:08		6.3	192					

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

OCTOBER

Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm
16	05:52	1.3	40	24	00:38	0.5	15
	12:34	5.6	171		06:50	6.2	189
	F 18:57	1.7	52		Sa 13:11	0.6	18
					19:13	5.8	177
17	00:44	4.8	146	25	01:22	0.3	9
	06:38	1.5	46		07:34	6.5	198
	Sa 13:25	5.5	168		Su 14:01	0.4	12
	19:48	1.8	55		19:56	5.8	177
18	01:37	4.7	143	26	02:07	0.0	0
	07:32	1.6	49		08:18	6.8	207
	Su 14:19	5.4	165		M 14:51	0.3	9
	☉ 20:41	1.8	55		○ 20:41	5.8	177
19	02:32	4.7	143	27	02:53	-0.1	-3
	08:31	1.6	49		09:06	6.9	210
	M 15:12	5.4	165		Tu 15:41	0.3	9
	21:33	1.7	52		21:30	5.7	174
20	03:27	4.9	149	28	03:41	-0.1	-3
	09:31	1.5	46		09:57	6.9	210
	Tu 16:05	5.5	168		W 16:33	0.4	12
	22:22	1.5	46		22:23	5.5	168
21	04:22	5.1	155	29	04:31	0.0	0
	10:30	1.4	43		10:52	6.7	204
	W 16:56	5.6	171		Th 17:26	0.6	18
	23:09	1.2	37		23:21	5.3	162
22	05:15	5.4	165	30	05:25	0.2	6
	11:26	1.1	34		11:53	6.5	198
	Th 17:45	5.7	174		F 18:24	0.8	24
	23:54	0.9	27				
23	06:04	5.8	177	31	00:25	5.2	158
	12:19	0.9	27		06:24	0.4	12
	F 18:30	5.8	177		Sa 12:58	6.3	192
				19:26	0.9	27	

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

NOVEMBER

	Time		Height			Time		Height	
	h	m	ft	cm		h	m	ft	cm
1	01:33		5.2	158	9	01:13		0.3	9
	06:30		0.6	18		07:39		6.4	195
	Su 13:04		6.1	186		M 13:58		0.5	15
	● 19:30		0.9	27		● 19:43		5.3	162
2	01:41		5.3	162	10	01:52		0.4	12
	07:39		0.7	21		08:18		6.3	192
	M 14:08		6.0	183		Tu 14:40		0.6	18
	20:31		0.8	24		20:23		5.2	158
3	02:45		5.4	165	11	02:29		0.6	18
	08:45		0.7	21		08:56		6.1	186
	Tu 15:08		5.9	180		W 15:19		0.8	24
	21:27		0.7	21		21:02		5.0	152
4	03:46		5.7	174	12	03:05		0.7	21
	09:48		0.6	18		09:34		5.9	180
	W 16:04		5.8	177		Th 15:58		1.0	30
	22:19		0.5	15		21:42		4.9	149
5	04:43		6.0	183	13	03:41		0.9	27
	10:46		0.5	15		10:13		5.7	174
	Th 16:55		5.7	174		F 16:37		1.1	34
	23:07		0.4	12		22:23		4.7	143
6	05:33		6.2	189	14	04:19		1.0	30
	11:40		0.4	12		10:54		5.5	168
	F 17:41		5.7	174		Sa 17:17		1.3	40
	23:52		0.3	9		23:06		4.6	140
7	06:18		6.4	195	15	05:01		1.2	37
	12:29		0.4	12		11:39		5.3	162
	Sa 18:23		5.6	171		Su 18:02		1.4	43
						23:54		4.6	140
8	00:34		0.3	9					
	06:59		6.4	195					
	Su 13:15		0.4	12					
	19:04		5.5	168					

*Daylight Saving ends November 1.

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

NOVEMBER

Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm
16	05:50	1.3	40	24	00:41	-0.4	-12
	12:27	5.2	158		06:59	6.7	204
	M 18:50	1.4	43		Tu 13:35	0.0	0
				○ 19:23	5.4	165	
17	00:47	4.6	140	25	01:32	-0.6	-18
	06:48	1.3	40		07:52	6.8	207
	Tu 13:17	5.1	155		W 14:28	-0.1	-3
	○ 19:40	1.2	37		20:18	5.3	162
18	01:40	4.8	146	26	02:25	-0.6	-18
	07:49	1.3	40		08:48	6.7	204
	W 14:08	5.1	155		Th 15:20	-0.1	-3
	20:29	1.0	30		21:15	5.3	162
19	02:35	5.0	152	27	03:19	-0.5	-15
	08:51	1.2	37		09:45	6.6	201
	Th 15:01	5.1	155		F 16:13	0.0	0
	21:19	0.7	21		22:15	5.2	158
20	03:31	5.4	165	28	04:14	-0.3	-9
	09:52	1.0	30		10:45	6.3	192
	F 15:55	5.2	158		Sa 17:08	0.2	6
	22:09	0.4	12		23:18	5.1	155
21	04:26	5.8	177	29	05:13	-0.1	-3
	10:51	0.7	21		11:45	6.1	186
	Sa 16:49	5.2	158		Su 18:06	0.3	9
	23:00	0.1	3				
22	05:18	6.1	186	30	00:22	5.1	155
	11:48	0.4	12		06:17	0.2	6
	Su 17:41	5.3	162		M 12:45	5.8	177
	23:50	-0.2	-6		19:05	0.3	9
23	06:09	6.5	198				
	12:42	0.2	6				
	M 18:31	5.3	162				

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

DECEMBER

	Time		Height			Time		Height	
	h	m	ft	cm		h	m	ft	cm
1	01:25		5.2	158	9	01:25		0.2	6
	07:23		0.4	12		07:55		5.8	177
	Tu 13:43		5.5	168		W 14:16		0.3	9
	● 20:03		0.3	9		● 19:59		4.7	143
2	02:26		5.3	162	10	02:03		0.2	6
	08:28		0.5	15		08:33		5.7	174
	W 14:38		5.3	162		Th 14:54		0.4	12
	20:57		0.3	9		20:38		4.6	140
3	03:24		5.5	168	11	02:40		0.3	9
	09:30		0.5	15		09:10		5.5	168
	Th 15:32		5.1	155		F 15:31		0.5	15
	21:48		0.2	6		21:17		4.5	137
4	04:19		5.6	171	12	03:16		0.4	12
	10:27		0.5	15		09:46		5.4	165
	F 16:24		4.9	149		Sa 16:06		0.6	18
	22:36		0.2	6		21:54		4.4	134
5	05:09		5.8	177	13	03:53		0.5	15
	11:20		0.4	12		10:21		5.2	158
	Sa 17:12		4.9	149		Su 16:42		0.7	21
	23:22		0.1	3		22:32		4.4	134
6	05:54		5.9	180	14	04:32		0.6	18
	12:09		0.3	9		10:57		5.1	155
	Su 17:57		4.8	146		M 17:20		0.7	21
						23:13		4.4	134
7	00:05		0.1	3	15	05:17		0.7	21
	06:36		5.9	180		11:37		4.9	149
	M 12:54		0.3	9		Tu 18:02		0.7	21
	18:39		4.8	146		23:59		4.5	137
8	00:46		0.1	3					
	07:16		5.9	180					
	Tu 13:36		0.3	9					
	19:19		4.8	146					

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

DECEMBER

Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm
16	06:10	0.8	24	24	01:17	-1.0	-30
	12:22	4.8	146		07:43	6.5	198
	W 18:49	0.5	15		Th 14:13	-0.6	-18
				○ 20:07	5.1	155	
17	00:51	4.7	143	25	02:13	-1.1	-34
	07:11	0.9	27		08:39	6.4	195
	Th 13:12	4.7	143		F 15:05	-0.6	-18
	● 19:39	0.4	12		21:05	5.1	155
18	01:47	4.9	149	26	03:08	-1.1	-34
	08:15	0.8	24		09:34	6.3	192
	F 14:08	4.6	140		Sa 15:56	-0.6	-18
	20:33	0.2	6		22:03	5.1	155
19	02:46	5.2	158	27	04:02	-0.9	-27
	09:21	0.7	21		10:29	6.0	183
	Sa 15:08	4.6	140		Su 16:47	-0.5	-15
	21:29	-0.1	-3		23:01	5.1	155
20	03:48	5.5	168	28	04:58	-0.6	-18
	10:25	0.4	12		11:22	5.7	174
	Su 16:12	4.6	140		M 17:39	-0.3	-9
	22:27	-0.3	-9				
21	04:51	5.8	177	29	00:00	5.1	155
	11:27	0.1	3		05:58	-0.2	-6
	M 17:15	4.7	143		Tu 12:16	5.3	162
	23:25	-0.6	-18		18:32	-0.2	-6
22	05:50	6.1	186	30	00:59	5.1	155
	12:24	-0.2	-6		07:01	0.1	3
	Tu 18:13	4.8	146		W 13:09	4.9	149
				● 19:26	-0.1	-3	
23	00:21	-0.9	-27	31	01:57	5.1	155
	06:46	6.4	195		08:04	0.3	9
	W 13:20	-0.4	-12		Th 14:02	4.6	140
	19:10	5.0	152		20:15	0.0	0

Heights refer to MEAN LOWER LOW WATER.

Times are Eastern Time, with corrections for Daylight Saving Time included.

Tidal Differences

PLACE

DIFFERENCES

RANGES

	TIME			Mean ft	Spring ft
	High Water h m	Low Water h m	Reference Station		
CHARLESTON (Customhouse Wharf).....			Reference Station	5.27	6.11
Fort Sumter.....	+0 02	-0 01		5.09	5.90
The Cove, Fort Moultrie.....	+0 00	-0 10		5.13	5.95
Fort Johnson.....	+0 05	-0 02		5.09	5.90
Shem Creek.....	+0 02	-0 03		5.20	6.03
Shipyard Creek, 0.6 mile above Entrance.....	+0 34	+0 20		5.3	6.1
Cooper River					
Clouter Creek, South Entrance.....	+0 26	+0 19		5.40	6.26
Goose Creek Entrance.....	+0 43	+0 33		5.46	6.33
Yeamans Hall, Goose Creek.....	+2 07	+1 31		5.19	6.02
Hanahan, Turkey Creek, Goose Creek.....	+2 52	+2 13		4.74	5.50
Clouter Creek, North Entrance	+0 46	+0 33		5.48	6.36
Snow Point, 0.4 mi North of.....	+1 00	+0 45		5.36	6.22
General Dynamics Pier.....	+1 40	+1 25		4.37	5.07

TIME

	High Water h m	Low Water h m	Mean ft	Spring ft
Dupont, Dean Hall.....	+ 2 21	+2 07	3.43	3.98
Bonneau Ferry, East Branch.....	+3 14	+2 49	3.11	3.61
Blessing Pantation, East Branch.....	+3 25	+3 21	2.80	3.25
Richmond Plantation, East Branch.....	+3 44	+3 43	2.68	3.11
Quinby Creek Bridge, East Branch.....	+4 37	+4 13	2.78	3.22
Huger Landing, East Branch.....	+4 46
Old Rice Mill, West Branch.....	+2 56	+2 51	2.60	3.02
Back River Reservoir, West Branch.....	+5 44	+5 57	0.78	0.90
Pimlico, West Branch.....	+3 19	+3 54	1.70	1.97
Wando River				
Hobcaw Point.....	+0 16	+0 11	5.44	6.31
Parker Island, Horlbeck Creek.....	+0 43	+0 28	5.76	6.68
Nowell Creek.....	+0 47	+0 23	5.97	6.93
Cainhoy.....	+0 46	+0 30	6.15	7.13
Big Paradise Island.....	+1 25	+0 52	6.54	7.59
Woodville.....	+2 07	+1 22	6.3	7.3

Port of Charleston Inner Anchorages

Anchorage are “first come, first served.”

Recommended Parameters¹:

- A** (north of Fort Sumter) 30’ draft & 750’ LOA
- B** (off James Island) per master’s discretion
- C** (off Carolina Yacht Club) 20’ draft, LOA per master’s discretion
- D** (off Union Pier) 25’ draft & 500’ LOA

In all cases, masters may apply more conservative limits at their discretion.

Vessels in designated anchorages must² :

- Not obstruct adjacent channels.
- Depart within 72 hours, & 24 hours for D.³
- Not pose a hazard to other vessels.
- Answer VHF Channel 16.
- Maintain a bridge watch.
- Maintain an accurate position plot.
- Be able to get underway within 4 hours.
- Not be in “dead ship” status.³
- Not lighter.³
- Move to a berth at the first opportunity if unable to adhere to requirements.

1. Letter designation refers to charts & 33 CFR 110.173

2. Reference: 33 CFR 110.173

3. Captain of the Port must approve variance.

Draft Corrections for Pitch and Heel

Increase in Draft Due to Pitch (In Feet)

Length	0.5°	1.0°	2.0°
500'	2.18	4.36	8.72
600'	2.62	5.23	10.46
700'	3.05	6.10	12.21
800'	3.49	6.98	13.96
900'	3.92	7.85	15.70
1000'	4.36	8.73	17.45

Table assumes tipping center is amidships.

Increase in Draft Due to Heel (In Feet) (Beam ÷ 2 x Sine of Angle)

Beam	5°	10°
40'	1.74	3.47
60'	2.61	5.21
80'	3.48	6.95
100'	4.35	8.68
105'	5.22	10.42
150'	6.54	13.02
200'	8.72	17.36

RADAR Antenna Offset

Nautical Miles – Feet – Meters

Nautical Miles:	1.000	Feet:	6076	Meters:	1852
0.810			4922		1500
0.540			3281		1000
0.500			3038		926
0.270			1641		500
0.250			1519		463
0.216			1312		400
0.214			1300		396
0.200			1215		370
0.197			1200		366
0.190			1154		352
0.181			1100		335
0.180			1094		333
0.173			1050		320
0.170			1033		315
0.165			1000		305
0.162			984		300
0.160			972		296
0.156			950		290
0.150			911		278
0.148			900		274
0.140			851		259
0.135			820		250
0.132			800		244
0.130			790		241
0.123			750		229
0.120			729		222
0.115			700		213
0.110			668		204
0.108			656		200
0.100			608		185
0.099			600		183
0.090			547		167
0.082			500		152
0.080			486		148
0.074			450		137
0.070			425		130
0.066			400		122
0.060			365		111
0.058			350		107
0.054			328		100
0.050			304		93
0.049			300		91
0.040			243		74
0.033			200		61
0.030			182		56
0.027			164		50
0.025			150		46
0.020			122		37
0.016			100		30
0.013			82		25
0.010			61		19

Common Conversion Factors and Metric Tables

Multiply.....	BY.....	To obtain
Barrels (fuel oil).....	.42	Gallon (fuel oil)
British Gallon.....	1.20094	U.S. Gallons
Cable.....	600.....	Feet
Centimeters.....	0.3937	Inches
Cubic Feet.....	1728	Cubic Inches
Cubic Feet (fresh water).....	62.5	Pounds of Fresh water
Cubic Feet (sea water).....	64	Pounds of Sea Water
Feet	0.3048	Meters
22 Feet = 6.7 Meters.....	30 Feet = 9.15 Meters	
24 Feet = 7.35 meters.....	32 Feet = 9.75 meters	
26 Feet = 7.95 meters.....	34 Feet = 10.35 Meters	
28 Feet = 8.55 meters.....	36 Feet = 11.0 Meters	
Gallons	3.78533	Liters
Gallons of Water	8.33	Pounds of Water
Inches.....	2.54	Centimeters
Kilograms	35.274	Ounces
Kilograms	2.20462	Pounds
100 Kilograms (1 Metric ton).....	0.98421	Long Tons
Kilometers	3281.	Feet
Knots.....	1.152	Miles Per Hour
Liters	0.2642	Gallons
Meters	3.281	Feet
Meters	1.0936	Yards
Miles.....	1.609	Kilometers
Miles (statute).....	5280.	Feet
Miles (nautical)	6076.	Feet
Tons (long) 2,240 lbs.	1.016047	Metric Tons
Tons (short) 2,000 lbs.	0.90718486	Metric Tons
Tons (long) Fresh Water	35.84	Cubic Ft. Fresh Water
Tons (long) Sea Water.....	35	Cubic Ft. Sea Water
Yards	0.9144	Meters
Fahrenheit = 9/5 Centigrade + 32°		
Centigrade = (Fahrenheit -32°) x 5/9		

To find diameter of a circle multiply circumference by .31831.
 To find circumference of a circle multiply diameter by 3.1416.
 To find the area of a circle multiply square of diameter by .7854
 To find surface of a ball multiply square of diameter by 3141.
 To find cubic inches of a ball multiply cube of diameter by .5236.
 Doubling the diameter of a pipe increases its capacity four times.
 Double riveting is from 16 to 20 percent stronger than single.

METRIC CAPACITIES

1 Milliliter	= .001 Liters
1 Centiliter	= .01 Liters
1 Deciliter	= .1 Liters
1 Dekaliter	= 10 Liters
1 Hectoliter	= 100 Liters
1 Kiloliter	= 1000 Liters

METRIC LENGTHS

1 Millimeter	= .001 Meters
1 Centimeter	= .01 Meters
1 Decimeter	= .1 Meters
1 Dekameter	= 10 Meters
1 Hectometer	= 100 Meters
1 Kilometer	= 1000 Meters

METRIC WEIGHTS

1 Milligram	= .001 Grams	1 Dekagram	= 10 Grams
1 Centigram	= .01 Grams	1 Hecto gram	= 100 Grams
1 Decigram	= .1 Grams	1 Kilogram	= 1000 Grams

Meters-Centimeters / Feet-Inches Conversion

Meters	Cent.	Feet	Inches	Meters	Cent.	Feet	Inches	Meters	Cent.	Feet	Inches	Meters	Cent.	Feet	Inches	Meters	Cent.	Feet	Inches
3	60	11	10	6	10	20	0	8	46	27	9	10	80	35	5	13	18	43	3
66	12	0		17	3			50	11			82	6			20	4		
70	3	2		20	4			53	28	0		90	9			26	6		
73	3			25	6			60	3			97	36	0		30	8		
80	6			30	8			69	6			11	0	1		33	9		
89	9			32	9			70	7			5	3			40	44	0	
90	10			40	21	0		76	9			10	5			49	3		
96	13	0		48	3			80	10			12	6			50	4		
4	0	1		50	4			84	29	0		20	9			56	6		
4	3			55	6			90	2			28	37	0		60	7		
10	5			60	8			91	3			30	1			64	9		
11	6			63	9			9	0	6		35	3			70	11		
20	9			70	22	0		7	9			40	5			72	45	0	
27	14	0		78	3			10	10			43	6			80	3		
30	1			80	4			14	30	0		50	9			87	6		
34	3			86	6			20	2			58	38	0		90	7		
40	5			90	8			22	3			60	1			94	9		
42	6			93	9			30	6			66	3			14	0	11	
50	9			7	0	23	0	37	9			70	5			2	46	0	
57	15	0		9	3			40	10			73	6			10	3		
60	1			10	4			45	31	0		80	9			17	6		
65	3			16	6			50	2			89	39	0		20	7		
70	5			20	7			52	3			90	1			25	9		
72	6			24	9			60	6			96	3			30	11		
80	9			30	11			68	9			12	0	4		32	47	0	
88	16	0		31	24	0		70	10			4	6			40	3		
90	1			40	3			75	32	0		10	8			48	6		
95	3			47	6			80	2			12	9			50	7		
5	0	5		50	7			83	3			20	40	0		55	9		
3	6			54	9			90	6			27	3			60	11		
10	9			60	11			98	9			30	4			63	48	0	
18	17	0		62	25	0		10	0	10		34	6			70	3		
20	1			70	3			6	33	0		40	8			78	6		
26	3			77	6			10	2			42	9			80	7		
30	5			80	7			13	3			50	41	0		86	9		
33	6			85	9			20	6			57	3			90	11		
40	9			90	11			29	9			60	4			93	49	0	
49	18	0		92	26	0		30	10			65	6			15	0	3	
50	1			8	0	3		36	34	0		70	8			9	6		
56	3			8	6			40	1			72	9			10	7		
60	4			10	7			44	3			80	42	0		16	9		
64	6			15	9			50	5			88	3			20	10		
70	8			20	11			52	6			90	4			24	50	0	
71	9			23	27	0		60	9			95	6			30	2		
80	19	0		30	27	3		67	35	0		13	0	42	8	32	3		
87	3			38	6			70	1			3	9			40	6		
90	4			40	7			74	3			10	43	0		47	9		
5	94	19	6																
6	0	8																	
2	9																		

International Distress Signals

IN THE DAYTIME

1. A gun fired at intervals of about a minute.
2. The international Code Signal of distress indicated by N.C.
3. The distress signal consisting of a square flag, having either above or below or a ball or anything resembling a ball.
4. Rockets or shells as prescribed below for use at night.
5. Continuous sounding with a steam whistle or any fog signal apparatus.

AT NIGHT

1. A gun fired at intervals of about a minute, same as the signal in daytime.
2. Flames on the vessel (as from a burning tar barrel, etc.)
3. Rockets or shells bursting in the air with a loud report and throwing sparks of any color or description, fired one at a time at short intervals.
4. A continuous sounding with a steam whistle or any fog signal apparatus.

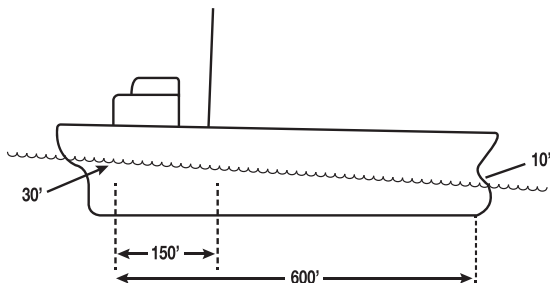
All Officers and personnel of the United States Coast Guard recognize any of these signals when seen or heard as signals of distress and immediately proceed to render all possible assistance.

Continuous Marine Weather Reports on 162.4 KHz

Determining the Air Draft of a Ship Not on Keel

HEIGHT OF THE MAST is the distance from the keel to the top of the mast. AIR DRAFT is the distance from the waterline to the top of the mast.

To Determine the air draft of a ship not on an even keel take the difference in draft for and aft. DIVIDE by the Length Between Perpendiculars. TIMES the Distance from the deepest perpendicular to the mast. This is the increase in Air Draft above the determined by subtracting the deepest draft from the height of the mast.



$$\frac{20}{600} \times \frac{150}{1} = 5 \quad \text{or}$$

$$30 - 10 = 20$$

$$(20 \div 600) \times 150 = 5 \text{ feet}$$

Actual Air Draft is 5 feet More Than if
Using Deepest Draft

See page 41 for local air draft parameters.

Charleston Air Draft Parameters

The Commissioners of Pilotage require a two-foot overhead safety margin to the structural steel of a bridge. The below tables allow for sufficient clearance on typical above-average tides. When tidal conditions exceed typical levels, pilots will apply necessary adjustments. Pilots will honor more conservative margins if directed by vessel master, owner or operator; please include instructions for desired safety margins with pilot orders.

AIR DRAFT RULES – RAVENEL BRIDGE

Air Draft up to 192 feet, passage permissible anytime.

Air Draft over 192 feet to 197.5 feet, passage through bridge at low water, or to coincide with low water slack at terminal for docking and undocking.

AIR DRAFT RULES – DON HOLT BRIDGE

Air Draft Not >	INBOUND	OUTBOUND <i>(with turn)</i>	OUTBOUND <i>(without turn)</i>
153 ft.	Anytime	Anytime	Anytime
154 ft.	HW to LW+3	HW+1½ to LW+4½	HW+2 to LW+5
155 ft.	HW+½ to LW+2	HW+2 to LW+3½	HW+2½ to LW+4
156 ft.	HW+1½ to LW+1½	HW+3 to LW+3	HW+3½ to LW+3½
157 ft.	HW+2 to LW+1	HW+3½ to LW+2½	HW+4 to LW+3
158 ft.	HW+3 to LW	HW+4½ to LW+1½	HW+5 to LW+2
159 ft.	HW+4 to LW-1	HW+5½ to LW+½	LW to LW+1
159.5 ft.*	LW-1 hr & 45 min	LW	LW+15 min.

**Must transit Don Holt Bridge at LW at Army Depot Tide Station*

Master may show 2 ft. clearance to sail at other times.

Pilot can adjust for tide, weather or vessel characteristics.

HW = Predicted High Water at Custom House Reach

LW = Predicted Low Water at Custom House Reach

Sunrise, Sunset & Nautical Twilight (Ravenel Bridge)

	Date	NTL	Sunrise		Noon	Sunset		NTL	
January 2026	5	06:25	07:22	117°	12:25	17:27	243°	18:25	
	12	06:25	07:22	115°	12:28	17:33	245°	18:30	
	19	06:24	07:21	114°	12:30	17:40	246°	18:36	
	26	06:22	07:18	112°	12:32	17:46	248°	18:42	
February	2	06:18	07:13	109°	12:33	17:53	251°	18:48	
	9	06:13	07:08	107°	12:33	17:59	253°	18:54	
	16	06:07	07:01	104°	12:33	18:06	256°	19:00	
	23	06:00	06:54	101°	12:32	18:12	259°	19:05	
March	*2	05:52	06:46	98°	12:31	18:17	262°	19:11	
	*9	06:44	07:37	95°	13:30	19:23	266°	20:16	
	16	06:35	07:28	91°	13:28	19:28	269°	20:21	
	20	Vernal Equinox occurs at 10:46 EDT							
	23	06:25	07:19	88°	13:26	19:33	272°	20:26	
	30	06:16	07:10	85°	13:24	19:38	275°	20:32	
April	6	06:06	07:01	82°	13:21	19:43	279°	20:37	
	13	05:57	06:52	79°	13:20	19:48	282°	20:43	
	20	05:48	06:44	76°	13:18	19:53	285°	20:49	
	27	05:39	06:36	73°	13:17	19:58	287°	20:55	
May	4	05:31	06:29	70°	13:16	20:03	290°	21:02	
	11	05:24	06:23	68°	13:16	20:08	292°	21:08	
	18	05:18	06:18	66°	13:16	20:13	294°	21:14	
	25	05:13	06:14	64°	13:16	20:18	296°	21:20	
June	1	05:09	06:12	63°	13:17	20:22	297°	21:25	
	8	05:07	06:11	62°	13:18	20:26	298°	21:29	
	15	05:07	06:11	61°	13:20	20:29	299°	21:33	
	21	Summer Solstice occurs at 04:24 EDT							
	22	05:08	06:12	61°	13:21	20:31	299°	21:34	
	29	05:10	06:14	61°	13:23	20:31	299°	21:35	

Sunrise, Sunset & Nautical Twilight (Ravenel Bridge)

	Date	NTL	Sunrise	Noon	Sunset	NTL	
July 2026	6	05:14	06:17 62°	13:24	20:31 298°	21:34	
	13	05:19	06:21 63°	13:25	20:29 297°	21:31	
	20	05:24	06:25 65°	13:26	20:26 295°	21:27	
	27	05:29	06:30 66°	13:26	20:21 293°	21:21	
August	3	05:35	06:34 69°	13:25	20:16 291°	21:15	
	10	05:41	06:39 71°	13:25	20:09 289°	21:07	
	17	05:47	06:44 74°	13:23	20:02 286°	20:59	
	24	05:53	06:49 76°	13:21	19:54 283°	20:49	
	31	05:58	06:53 79°	13:19	19:45 280°	20:40	
September	7	06:03	06:58 82°	13:17	19:36 277°	20:30	
	14	06:08	07:02 86°	13:15	19:27 274°	20:20	
	21	06:13	07:07 89°	13:12	19:17 271°	20:10	
	22	Autumnal Equinox occurs at 20:05 EDT					
	28	06:18	07:11 92°	13:10	19:08 268°	20:01	
October	5	06:23	07:16 95°	13:08	18:58 265°	19:52	
	12	06:28	07:21 98°	13:06	18:50 261°	19:43	
	19	06:33	07:26 101°	13:04	18:41 258°	19:35	
	*26	06:38	07:32 104°	13:03	18:34 255°	19:28	
November	*2	05:43	06:38 107°	12:03	17:27 253°	18:22	
	9	05:49	06:44 110°	12:03	17:22 250°	18:17	
	16	05:54	06:50 112°	12:04	17:17 248°	18:13	
	23	06:00	06:57 114°	12:06	17:14 246°	18:11	
	30	06:06	07:03 115°	12:08	17:13 244°	18:10	
December	7	06:11	07:09 117°	12:11	17:13 243°	18:10	
	14	06:15	07:14 117°	12:14	17:14 243°	18:12	
	21	06:19	07:18 118°	12:17	17:17 242°	18:15	
	21	Winter Solstice occurs at 15:50 EST					
	28	06:22	07:21 117°	12:21	17:21 243°	18:19	

NTL: Nautical Twilight
Azimuths are True.

*Daylight Saving Time
Corrections Are Included.

Figure B 5.8 (See B 5.4) Example illustrating the required horizontal field of vision of 225° with a maximum total arc of blind sectors of 20° forward of the beam and 10° abaft the beam, and indication of the vertical field of vision required within the sector of 20° right ahead.

Arc (size)	Max. individual blind sector	Max. allowed blind sector	Min. clear sector
Fwd. of the bow to 10° on each side (20°)	5°	10°	
Fwd. of the beam (180°)	10°	20°	
Abaft the beam (2 x 22.5°)	10°	10°	
Within total horizontal field of vision (225°)	10°	30°	
Clear sectors between blind sectors			5°
Min. clear sector from 112.5° and forward each side			5°

Table B 5.8

B 5.9 Blind sectors as specified in Reg.V/22.1.2, caused by cargo, cargo gear and other obstructions forward of the beam should be as few and small as possible and not in any way influence safe look-out from positions arranged, located and equipped to be used for conning by the bridge team and the pilot. See A 5.7 and A 5.7.1.

Beaufort Wind Scale

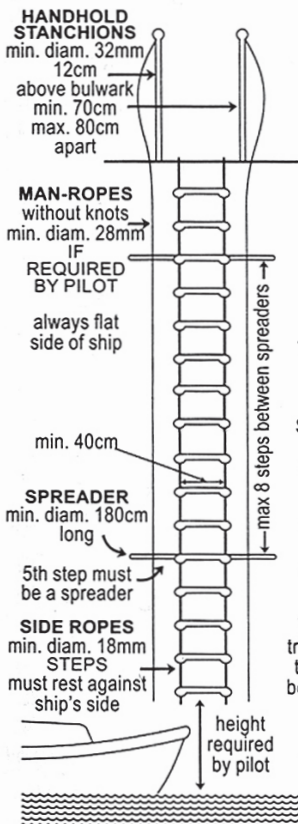
Beaufort	Miles	
No. Indication	Per Hr.	
0 Calm	Less than 1	
1 Light Air	1	3
2 Light Breeze	4	7
3 Gentle Breeze	8	12
4 Moderate Breeze	13	18
5 Fresh Breeze	19	24
6 Strong Breeze	25	31
7 Moderate Gale	32	38
8 Fresh Gale	39	46
9 Strong gale	47	54
10 Whole gale	55	63
11 Storm	64	72
12-17 Hurricane	73	136

Embarking and Disembarking Pilots

1. Pilot Waters are defined by 46 CFR 7.65. Pilots are required while a vessel is underway on those waters.
2. Boardings (embarked pilot) normally done in the vicinity of buoy "C".
3. Disembarkations are made whenever the vessel shall depart the Pilot Waters en route to sea.
4. Pilots carry personal VHF transceivers.
5. Instructions for Boarding Ladders:
 - (a) Vessel speed should be 8 to 10 knots unless otherwise directed by the pilot.
 - (b) Head the vessel so that the pilot may embark or disembark on the lee side, away from the seas.
 - (c) Rig the pilot ladder with spreaders in accordance with SOLAS Regulations.
 - (d) The ladder must be in good repair. A sturdy and clean pilot ladder is appreciated by your pilot.
 - (e) Position the ladder approximately 2 to 2.5 meters, or about 8 feet above the water. Allow no slack in the ladder on deck.
 - (f) No boat rope or man ropes are required.
 - (g) No line or unmoused sister hooks shall be attached to the foot of the ladder.
 - (h) At night, provide a brilliant light shining forward, and so as not to shine into the pilot boat Operator's eyes, to illuminate the ladder.
 - (i) Attend the ladder with an officer equipped with a radiotelephone to communicate with the ship's bridge. Provide an escort to and from the bridge.
 - (j) Have a ring buoy, and at night a float light, ready to toss overboard immediately in case the pilot falls.

Required Boarding Arrangements for Pilots

RIGGING FOR FREEBOARDS OF 9 METERS OR LESS

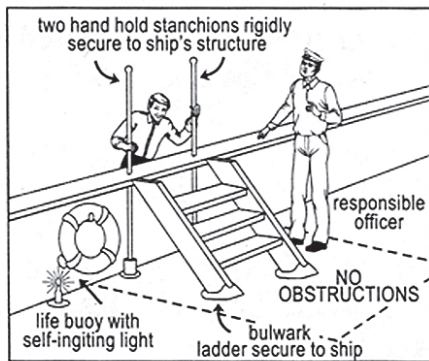
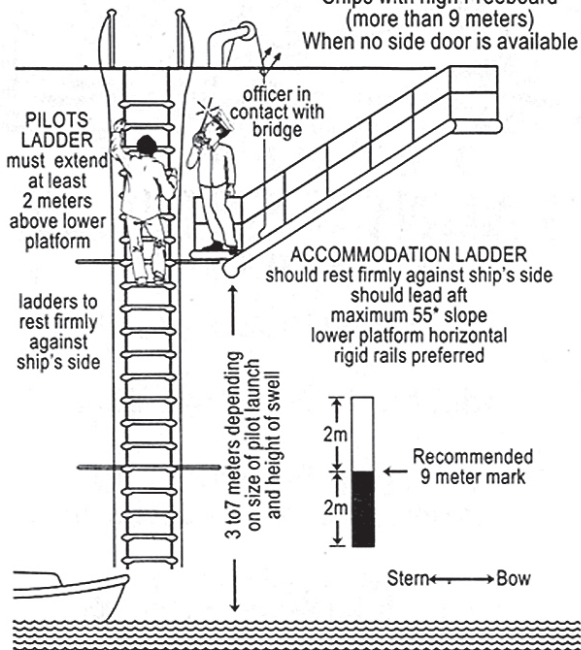


NO!

-
- NO!**
No Shackles
No Knots
No Splices
- NO!**
The steps
must be
equally spaced
- NO!**
The steps
must be
horizontal
- NO!**
Spreaders must
not be lashed
between steps
- NO!**
The side ropes
must be
equally spaced
- NO!**
The loops are a
tripping hazard for
the pilot and can
become foul of the
pilot launch
- The diagram shows a side view of an incorrect ladder rigging. It features a spreader bar between two handhold stanchions. The steps are not equally spaced, not horizontal, and are lashed between the spreaders. The side ropes are not equally spaced and have loops at the bottom. A note indicates that these loops are a tripping hazard and can become foul of the pilot launch.

**LADDER
AMIDSHIPS**

Ships with high Freeboard
(more than 9 meters)
When no side door is available



Right Whale Speed Rule

50 CFR 224.10c Speed Deviation Log Entry

Charleston's Entrance Channel is an open-ocean, narrow channel where oceanographic, hydrographic and meteorological conditions severely restrict vessels' maneuverability. The master and pilot determined a deviation was necessary for this voyage to maintain safe maneuvering speed, and was applied as follows:

Vessel: _____ Date: _____
LAT/LONG: 32-35.1N / 79-31.3W & 32-43.4N / 79-48.7W

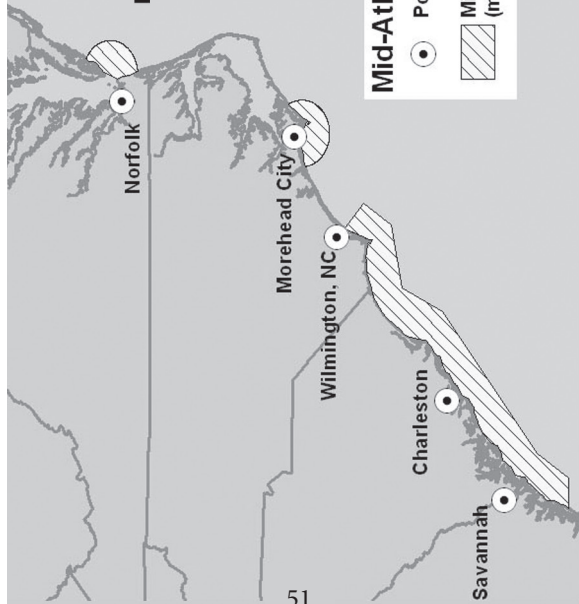
Deviation Start Time: ____:____ Stop Time: ____:____

Deviation Maximum Speed: _____ kts. Conditions:
 Cross Set Cross Winds Cross Seas
 Directional Stability Passing/Meeting Control
 Poor Handler other _____

Notes: _____

Whale Sightings
Call 843-740-7050

**RIGHT WHALE SPEED RESTRICTIONS:
NOVEMBER 1 THROUGH APRIL 30**



Mid-Atlantic Seasonal Management Areas



Ports



Mid-Atlantic Seasonal Management Areas
(mandatory 10 knot speed restriction)



Precautionary Statement

The tide figures used herein are based upon the National Oceanic and Atmospheric Administration tables, and we believe them to be accurate. They cannot, however, be guaranteed because tides tend to vary with the weather conditions.

Other information herein is based upon sources deemed to be reliable and is believed to be correct but it is likewise not guaranteed.

THE TIME OF TIDES SET FORTH IN THESE TABLES IS GIVEN IN EASTERN TIME, WITH CORRECTIONS FOR DAYLIGHT SAVING TIME INCLUDED AS APPROPRIATE.