

# INFORMATION

Sandy Hook Pilots



2015

Tide Tables

## **NOTICE**

**THIS PUBLICATION CONTAINS TIDE AND/OR TIDAL CURRENT PREDICTIONS AND ASSOCIATED INFORMATION PRODUCED BY AND OBTAINED FROM THE DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL OCEAN SERVICE. THESE PREDICTIONS ARE RECEIVED PRIOR TO OCTOBER OF THE PREVIOUS YEAR AND ARE SUBJECT TO REVISION BY NOAA WITHOUT NOTICE. TIDES MAY VARY WITH WEATHER CONDITIONS. ALL OTHER INFORMATION CONTAINED IN THIS PUBLICATION IS OBTAINED FROM SOURCES BELIEVED TO BE RELIABLE. WE DISCLAIM LIABILITY FOR ANY MISTAKES OR OMISSIONS IN ANY OF THE INFORMATION CONTAINED HEREIN. THE TIME OF TIDES SET FORTH IN THESE TABLES IS GIVEN AT EASTERN STANDARD TIME. PLEASE NOTE: SLACK WATER TIMES ARE AN ESTIMATE BASED ON PILOT OBSERVATIONS AND THEIR ACCURACY CANNOT BE GUARANTEED.**

Compliments  
of  
**THE UNITED NEW YORK  
SANDY HOOK PILOTS  
BENEVOLENT ASSOCIATION**  
and  
**THE UNITED NEW JERSEY  
SANDY HOOK PILOTS  
BENEVOLENT ASSOCIATION**

201 Edgewater Street  
Staten Island, N.Y. 10305  
[www.sandyhookpilots.com](http://www.sandyhookpilots.com)



**Masters or Agents are requested to advise Pilots of  
any change in arrival time 12 hours in advance.**

New York Pilots .....	718.448.3900
New Jersey Pilots .....	718.448.3900
Hell Gate Pilots .....	718.448.3900
Long Island Sound Pilots .....	718.448.3900
Hudson River Pilots .....	718.815.4316
Dispatch Email .....	<a href="mailto:Dispatch@sandyhookpilots.com">Dispatch@sandyhookpilots.com</a>
General Info Email .....	<a href="mailto:Info@sandyhookpilots.com">Info@sandyhookpilots.com</a>
Fax .....	1.718.876.8055

**ORDERS CANNOT BE ACCEPTED BY EMAIL**

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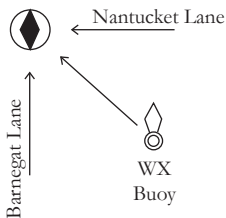
## Arrival and Pilot Embarkation at Ambrose Pilot Station

The Sandy Hook Pilots maintain a pilot vessel on station year round. Either the Pilot Boat New York or Pilot Boat New Jersey will be “On Station” and monitoring VHF channels 13, 16 and 73. Both vessels are equipped with AIS. Using a 53ft (16m) aluminum launch, the pilot will be embarked from this vessel. The pilot launch carries the same lights as the pilot boats on station.

Vessels approaching the Ambrose Pilot Station from sea should give the pilot boat a minimum of three hours advance notice. Vessels should make a second call to the pilot boat when they are one hour from the sea buoy. Pilot boarding side will be given at that time.



‘A’

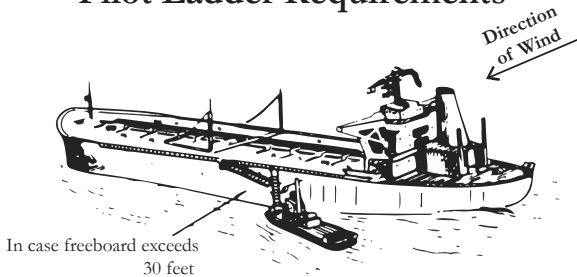


NOT TO SCALE  
NOT TO BE USED  
FOR NAVIGATION

## Important Information Your Pilot Will Need

It is imperative that you brief your pilot about any automatic engine monitoring systems that could potentially shut down or would significantly reduce the power of the main propulsion engine system without substantial warning. If possible, these systems should be overridden for transiting New York Harbor pilotage waters. Please advise your pilot if any unusual problem with the ship’s control or navigational systems have occurred in the last month.

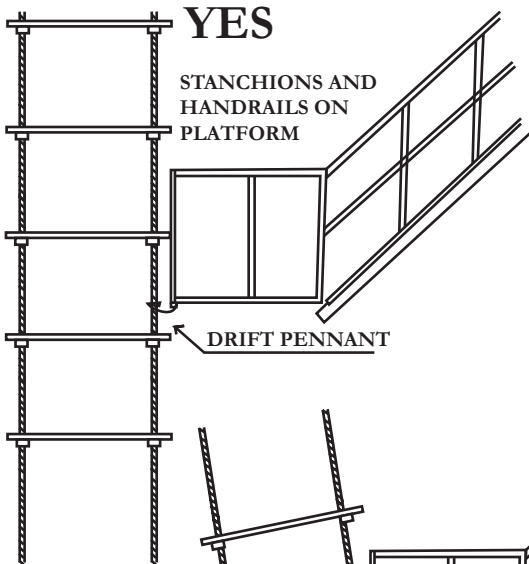
# Pilot Ladder Requirements



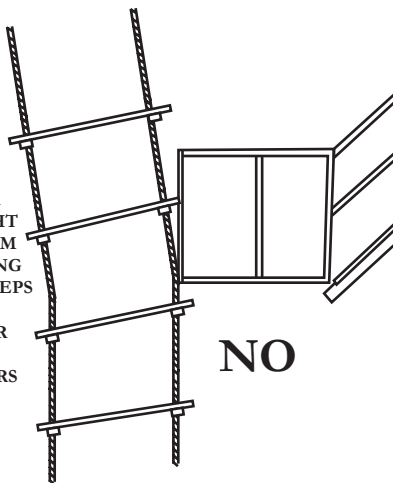
## Requirements:

- 1 - Rigging of the ladder, along with embarking and disembarking of pilot, must be under the supervision of a licensed officer.
- 2 - The ladder must be made in one length and not consist of two lengths shackled or lashed together, and should be equipped with spreaders about 10 feet (3m) apart.
- 3 - The area of the deck where the pilot boards must be well lighted and must be clear of obstructions to ensure a safe passage for the pilot.
- 4 - Trailing lines or retrieving lines should not be attached to the lower ends of the ladder.
- 5 - Ladders must be rigged well clear of water and discharge outlets and at a place near midship.
- 6 - Vessels must comply with the new SOLAS Chapter V regulations.
- 7 - Rig the ladder 1.5 meters above the water. A heaving line must be available.

# Pilot Ladder Requirements



NEVER BIND LADDER TO GANGWAY SO TIGHT AS TO MAKE PLATFORM A HAZARD TO CLIMBING OR CAUSE LADDER STEPS TO LEAVE THE HORIZONTAL LADDER SHOULD EXTEND MINIMUM OF 3 METERS BELOW GANGWAY



# Useful Telephone Numbers

## Pilots

Sandy Hook Pilots Association.....	(718) 448-3900
Dispatch / Operational Issues : Dispatch@sandyhookpilots.com	
General Information :	Info@sandyhookpilots.com
Hudson River Pilots Association .....	(718) 815-4316
Long Island/Block Island Sound Pilots .....	(401) 847-9050
	dispatch@nemarinepilots.com

## Tug Companies

Moran Towing (VHF Ch. 7A).....	(203) 442-2825
McAllister Towing and Transportation (VHF Ch. 10).....	(718) 273-6300
Hornbeck Offshore .....	(718) 625-0743
Reinauer (VHF Ch. 80A).....	(718) 816-8167
Bouchard Transportation (VHF Ch. 10).....	(631) 390-4900
Henry Marine Services (VHF Ch. 74).....	(718) 966-6193
Weeks Marine.....	(908) 272-4010
Harley Marine Services (VHF Ch. 79A).....	(718) 875-7000
Kirby Marine (VHF Ch. 18A).....	(718) 720-7207

## Launch Services

Miller's Launch .....	(718) 727-7303
Reynold's Launch.....	(718) 981-2804

## United States Coast Guard

Vessel Traffic Service (VTS) .....	(718) 354-4088
VTS Fax .....	(718) 354-4096
First USCG District Bridges .....	(212) 668-7021

## Regulatory/Governmental

NYPD Harbor Unit .....	(718) 765-4100
National Weather Service .....	(516) 924-0517
Physical, Oceanographic Real Time System (PORTS) .....	(718) 815-9668

## US Army Corp of Engineers

To report dangerous debris .....	(201) 333-1170
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## Linehandlers

Bayonne Line Boat Service .....	(201) 436-8109
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## **Bridge Phone Numbers**

Lehigh Valley RR Bridge .....	(973) 690-2344
Lincoln Highway .....	(973) 589-5143
Path Control .....	(201) 216-6552
Triple Bridges .....	(973) 690-2609
Witt Penn Bridge .....	(201) 795-0631
Lower Hackensack Bridge .....	(201) 714-2958
Lower Hack Bridge Superintendent .....	(973) 879-2967
Raritan River Railroad Bridge .....	(973) 690-2344

## **Useful Websites**

USCG Sector NY.....<http://homeport.uscg.mil/newyork>  
Port Authority:.....[www.panynj.gov](http://www.panynj.gov)  
Notice to Mariners..navcen.uscg.gov/?pagename=lnmDistrict&region=1  
NY Marine Weather.....[www.erh.noaa.gov/okx.marine.shtml](http://www.erh.noaa.gov/okx.marine.shtml)

## **Tides and Currents**

PORTS.....[tidesandcurrents.noaa.gov/ports/index.shtml?port=ny](http://tidesandcurrents.noaa.gov/ports/index.shtml?port=ny)  
Maritime Center.....[hudson.dl.stevens-tech.edu/maritimeforecast/](http://hudson.dl.stevens-tech.edu/maritimeforecast/)

## **Bridge Air Gaps**

Verrazano and Bayonne Bridge:

<http://www.tidesandcurrents.noaa.gov/ports.html>

## **Seaman's Institute**

118 Export St., Newark, NJ 07114

(973) 589-5828

[www.seamanschurch.org](http://www.seamanschurch.org)

## **Seafarers and International House**

123 East 15th St., New York, NY 10003

(212) 677-4800

[www.sihnyc.org](http://www.sihnyc.org)

# Distances North Way from Ambrose Sea Buoy

## UPPER BAY & HUDSON RIVER

Name	Distance
Verrazano Bridge.....	13.6M
26 Buoy.....	15.5M
off Pier #1 Brooklyn Army Base.....	16.2M
off 35th Street Gowanus .....	17.5M
Bayonne Terminal Dock.....	17.5M
#28 Buoy Abeam .....	17.9M
off Entrance Atlantic Basin .....	19.3M
Channel junction off Battery .....	19.3M
Pier #40 Abeam .....	21.3M
Turn off Bethlehem Steel, Hoboken.....	23.9M
Passenger Ship Terminal.....	24.5M
George Washington Bridge.....	29.4M
Pilot Station, Yonkers Abeam .....	35.1M

## KILL VAN KULL & ARTHUR KILL

off IMTT Con Hook.....	17.6M
off Exxon Bayonne.....	18.7M
Howland Hook Container Terminal.....	22.5M
Bayway.....	23.6M
Tremley Point C/S & BP Docks.....	25.5M
Rahway River.....	26.1M
Tufts Point.....	28.3M

## NEWARK BAY

Bergen Point junction.....	21.0M
Port Eliz. Entrance.....	22.9M
Port New'k. Entrance.....	23.7M
Tenaco Newark.....	25.0M
Koppers Koke.....	28.5M

## Distances South Way from Sandy Hook Scotland Buoy

S.W. Spit Buoy Junction Chapel Hill .....	07.0M
Leonardo Dock.....	07.5M
Princess Bay.....	15.0M
Beacon #9.....	16.3M
Anaconda Dock Raritan River.....	19.3M
Hess Reserve Raritan River .....	20.0M
Titanium Dock Raritan River .....	21.3M
Perth Amboy Anchorage.....	17.5M
off 6 Buoy Sewarren.....	20.6M
off Beacon 14 Hess Pt. Reading.....	21.7M
Tufts Point.....	23.0M
Rahway River.....	25.3M
Bayway.....	27.5M

# Principal Bridges in the Port of New York

Distance	Name or Location	Type of Bridge	Horizontal Clearance	Vert Clearance at Mean H.W.
<b>EAST RIVER</b>				
1.2	Brooklyn	Sus.	1350'	38.71M - 127'
1.5	Manhattan	Sus.	1200'	40.84M - 134'
2.5	Williamsburg	Sus.	1536'	40.54M - 133'
5.3	Queensborough	F. West Span	900'	39.93M - 131'
5.6	Roosevelt Island	V. L. E. Chan.	403'	12.19M-30.18M 40'-99' open
7.3	Triborough	Sus.	Unobstructed	42.06M - 138'
7.5	Hell Gate	Sus.	830'	40.84 - 134'
12.4	Whitestone	Sus.	2265'	41.15M - 135'
--	Throgsneck	Sus.	1711'	42.06M - 138'
<b>HUDSON RIVER AND NEW YORK HARBOR</b>				
9.6	Geo. Washington	Sus.	3169'	64.92M - 213' East 59.44M - 195'
11.5	Narrows	Sus.	4000'	60.35M - 198' Mid 2000' Note: Bridge can flex substantially based upon temperature and load. Clearance observations available at <a href="http://www.tidesandcurrents.noaa.gov/ports/index.shtml?port=ny">http://www.tidesandcurrents.noaa.gov/ports/index.shtml?port=ny</a>
<b>KILL VAN KULL AND ARTHUR KILL</b>				
3.5	Bayonne	F.	800'	43.89M S.E. - 144', 46.02M MS - 151', 42.06M N.E. - 138'
6.2	B. & O. R.R.	V. L.	500'	9.44 - 41.15M - 31' - 135' open
6.3	Goethals	F.	617'	41.76M - 137'
14.6	Outer Bridge Newark Bay	F.	675'	43.59M - 143'
3.5	N.J. Turnpike	F.	550'	41.15M - 135'
3.7	Lehigh Valley R.R.	V. L.	300'	10.67 - 41.15M - 35' - 135' open
<b>PASSIC RIVER</b>				
5.2	Conrail	Sw.	100'	7.62M - 25'
5.8	Lincoln Highway	V. L.	300'	12.19 - 41.15M - 35'-135' open
6.0	Pulaski Skyway	F.	520'	41.15 - 135'
6.4	Point No Point	Sw.	103'	4.87M - 16'
6.5	N.J. Turnpike	F.	319'	30.4M - 100'
<b>HACKENSACK RIVER</b>				
5.7	Lincoln Highway	V. L.	200'	10.67 - 41.15M - 35' - 135' open
6.1	Pulaski Skyway	F.	300'	41.15M - 135'
6.8	Penn Passenger	V. L.	168'	12.19 - 41.15M - 40'-135' open
6.8	Penn Freight	V. L.	158'	3.35 - 41.14M - 11' - 135' open
6.8	Route 10 H'way	V. L.	158'	10.67 - 41.15M - 35' - 135' open
7.1	D.L. & W. R. R.	V. L.	150'	12.19 - 41.15M - 40' - 135' open
<b>RARITAN RIVER</b>				
2.6	C.R.R. of N.J.	Sw.	N.S. 124' S.S. 125'	2.43M - 8'
2.6	Victory Bridge	Sw.	140'	8.53M - 28'
4.0	Thomas Edison	F.	200'	41.15M - 135'
	Garden State Pkway.	F.	200'	41.15M - 135'

SYMBOLS: F - FIXED / SUS. - SUSPENSION / SW - SWING / V.L. - VERTICAL LIFT

\*\*(TRAVELING PLATFORM REDUCED CLEARANCE BY 15 FEET)

## SPECIAL NOTATION

Vessels navigating in the Vicinity of Rikers Island with a mast height of over 125 ft. should use caution when crossing La Guardia Airport flight approaches. # 718-779-1220/nite 718-779-7901.

This is a listing of the various marine terminals, bridges and landmarks in relationship to each other, which a vessel will pass in transiting the East River. The mileage given is the distance for west-bound vessels from Execution Rocks to the Battery and for east-bound vessels from the Battery to Execution Rocks.

Vessels navigating in the vicinity of Rikers Island with a mast height of over 125' should use caution when crossing LaGuardia Airport flight approaches.

West Bound Mileage	LONG ISLAND SOUND	Vertical Clearance	Width	East Bound Mileage
00.0	Execution Rocks - Sands Point			20.0
03.3	City Island -Stepping Stones LT - Kings Pt.			16.7
05.5	Throgs Neck Bridge - Fort Schuyler	138'	1711'	14.5
07.2	Bronx Whitestone Bridge	135'	2265'	12.8
09.2	Hunts Pt. - LaGuardia Airport			10.8
11.0	Castle Oil & Orion Power - Astoria			11.0
10.1	Oak Pt. - Castle Oil Bronx Tiffany St.			09.9
10.5	149th St., Cirillo Bros.- Cibro			09.5
10.7	138th St., Metropolitan Oil			09.3
11.8	Wards Island Sewer Treatment Plant			08.2
12.0	Hell Gate Railroad Bridge	134'	830'	08.0
12.3	Triborough Bridge	138'	Unlimited	07.7
12.7	Hell Gate - Harlem Riv - Mill Rk. - Halletts Pt.			07.3
14.3	Queensborough (59th St.) Bridge	131'	900'	05.7
15.9	National Concrete, Long Island City			04.6
16.3	Pepsi Cola, Long Island			05.0
16.1	Green St. Lumber Term., Green Point			03.9
16.9	Nepco Oil Terminal, North 1st St.			03.1
17.1	Amstar Sugar House, South 2nd St.			02.9
17.3	Williamsburg Bridge	133'	1536'	02.7
17.7	Brooklyn Navy Yard			02.3
18.0	Con Edison, Hudson Ave.			02.0
18.1	Piers 42 & 36, East River			01.9
18.4	Manhattan Bridge	134'	1200'	01.6
18.7	Brooklyn Bridge	127'	1350'	01.3
18.9	Piers 1 to 5, Brooklyn			01.1
20.0	BATTERY			00.0

## East River and Long Island Sound Distance from Junction off Battery

Location	Distance	Location	Distance
Bkly'n Navy Yard.....	02.6	Northport.....	42.0
Poor House Flats.....	3.75	Bridgeport Entrance Buoys.....	49.7
Pepsi Cola L. I. C.....	05.2	Port Jefferson Sea Buoy.....	52.8
Hell Gate.....	07.5	New Haven Sea Buoy.....	65.3
Oak Point.....	10.0	Northville.....	72.0
Throgs Neck.....	15.0	New London Entrance Buoys..	101.7
City Island.....	17.5	Montauk Channel.....	116.0
Execution Rocks.....	20.4	Point Judith.....	127.0

### Times of High & Low Water Off Battery

	H.W.	L.W.	Mean	Spring
Battery	0:00	0:00	4.5	5.4
Bklyn. Navy Yard	+0:50	+0:35	4.1	4.9
Hell Gate - Hallets Pt.	+2:00	+2:04	5.1	6.1
Port Morris - Stoney Pt.	+3:23	+3:46	6.3	7.4
Hunts Point	+3:18	+3:45	6.9	8.1
Willetts Point	+3:10	+3:30	7.1	8.3
Execution Rocks	+3:04	+3:22	7.3	8.6
Bridgeport	+2:52	+2:50	6.7	7.7
Port Jefferson	+2:58	+2:53	6.6	7.6
New Haven (City Dock)	+2:54	+2:47	6.0	6.9
New London (State Pier)	+1:09	+1:15	2.6	3.1

### Times of High & Low Water Slack Off Narrows

	H.W.	L.W.	Mean	Spring
Narrows	0:00	0:00	1.7	2.0
Hell Gate	+0:16	- 0:17	3.4	4.6
Throgs Neck	+0:02	- 1:24	0.6	0.8
The Race	+1:55	+1:30	2.9	3.5

## Hudson River Drafts

Maximum Air Draft - 132'

### Upper Hudson River North of Kingston

Maximum Draft - 30' (Salt Water Draft)

Vessels transiting the Upper Hudson River with drafts of 27' to 30' must be set up for the correct stage of a rising tide. Daylight transits only north of Kingston.

### Lower Hudson River South of Kingston

Maximum Draft- 33' (Salt Water Draft)

Vessels transiting the Lower Hudson River with drafts of 31' to 33' must be set up for the correct stage of a rising tide. Daylight transits only north of Kingston.

Vessels with a draft of 31' or less may transit the Lower River any time.

All vessel draft information is subject to existing weather conditions at the time of transit.

Please call our Dispatchers for assistance in setting Hudson River transits or with any other questions.

Hudson River Pilots - 718-815-4316.

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### Distance From Junction off Battery to Locations on the Hudson River

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Location	Distances	Location	Distances
Yonkers	15.5	Hess Roseton	55.5
Hastings	18.5	Milton	64.0
Irvington	21.5	Poughkeepsie	65.5
Grassy Pt.	33.0	Kingston	78.5
Tompkins Cove	35.5	Saugerties	86.5
Peekskill	38.0	Hudson	100
Texaco Newburgh	52.5	Albany & Rensselaer	124

**Distances from New York  
to Points on the Hudson River**

<b>Location</b>	<b>Nautical Statute</b>	
	<b>Miles</b>	<b>Miles</b>
Yonkers	15.5	18.0
Tarrytown and Nyack	24.0	27.5
Ossining	28.5	32.5
Haverstraw	32.5	37.0
Stony Point	35.0	40.0
Peekskill	38.0	43.5
West Point	45.0	52.0
Cold Spring	47.0	54.0
Cornwall	49.5	57.0
Hyde Park to Albany	52.0	
Newburgh and Fishkill	52.5	60.5
Yonkers to Hyde Park	56.0	
Poughkeepsie	65.5	75.5
Kingston	78.5	90.5
Saugerties	86.5	99.5
Catskill	96.0	110.5
Hudson and Athens	100.0	115.0
Coxsackie	105.5	121.5
Stuyvesant	108.0	124.0
New Baltimore	111.5	128.5
Coeymans	113.0	130.0
Castleton	116.5	134.0
Albany & Rensselaer	124.0	142.5
Troy & Watervliet	129.5	149.0
Troy Lock	131.0	151.0

**Note: Distances are measured to and between  
points inmidchannel abreast the various towns.**

# SQUAT

$$S(\text{FEET}) = C_b \times \frac{V^2}{30}$$

**S** = SINKAGE IN FEET

**C<sub>b</sub>** = BLOCK COEFFICIENT

**V** = SPEED IN KNOTS

In Shallow / Confined Waters Sinkage - 2 x S

## 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 at mid-point

## 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
150'	6.54	13.02
200'	8.72	17.36



## SQUAT IN FEET

### BLOCK

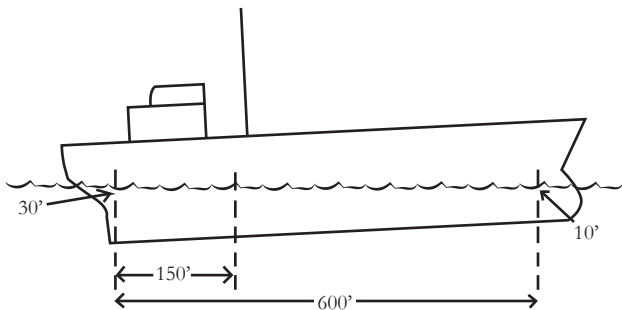
CO - EF	5k.	6k.	7k.	8k.	9k.	10k.	11k.	12k.	13k.	14k.	15k.
0.50	0.8	1.2	1.6	2.1	2.7	3.3	4.0	4.7	5.5	6.4	7.4
0.55	0.9	1.3	1.8	2.3	2.9	3.6	4.4	5.2	6.1	7.1	8.1
0.60	1.0	1.4	1.9	2.5	3.2	3.9	4.8	5.7	6.7	7.7	8.9
0.65	1.1	1.5	2.1	2.7	3.5	4.3	5.2	6.1	7.2	8.4	9.6
0.70	1.1	1.7	2.3	2.9	3.7	4.6	5.6	6.6	7.8	9.0	10.3
0.75	1.2	1.8	2.4	3.1	4.0	4.9	6.0	7.1	8.3	9.6	11.1
0.80	1.3	1.9	2.6	3.4	4.3	5.2	6.4	7.6	8.9	10.3	11.8
0.85	1.4	2.0	2.7	3.6	4.5	5.6	6.7	8.0	9.4	10.9	12.5
0.90	1.5	2.1	2.9	3.8	4.8	5.9	7.1	8.5	10.0	11.6	13.3
0.95	1.6	2.2	3.1	4.0	5.0	6.2	7.5	9.0	10.5	12.2	14.0
1.00	1.6	2.4	3.2	4.2	5.3	6.6	7.9	9.4	11.1	12.9	14.8

## Determining the Air Draft of a Ship Not on Even 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 even keel take the difference in draft fore 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 that determined by subtracting the deepest draft from the height of the mast.



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

**OR**

$$30 - 10 = 20$$

$$(20 / 600) \times 150 = 5 \text{ FEET}$$

Actual air draft is 5 feet more than if  
using deepest draft



## Principal Light and Fog Signals in the Port of New York

Name	Light	Fog Signal
Scotland Lighted.....	Morse "A".....	1 Bl. ev. 30 sec.
Horn Buoy S.....		Racon Signal M.
Sandy Hook Pt. Lt.....	Iso., W. 6 sec.....	1 Str. ev. 10 sec.
Sandy Hook Lt.....	FW	
Romer Shoal Lt.....	Fl. (2) W. 15 sec.....	1 Bl. ev. 15 sec.
	Emerg. Lt. - Fl. W. 6 sec.	
	when main Lt. exting.	
West Bank Front Lt.....	Iso., W. sector, 6 sec.....	2 Bl. ev. 20 sec.
Coney Island Lt.....	Fl. R. 5 sec	
Verrazano Narrows Br .....		1 Bl. ev. 15 sec.
Robbins Reef Lt.....	Fl. G. 6 sec.....	1 Bl. ev. 10 sec.
Gov. Is. Ext. Lt.....	FR.....	1 Bl. ev. 15 sec.
Gov. Is. Lt.....	2 FR.....	2 Bl. ev. 20 sec.
Outerbridge Crossing.....		1 Bl. ev. 15 sec.
Hell Gate Lt. 15.....	Fl. G. 2.5 sec	
N. Brothers Is. N. Lt. 9.....	Fl. G. 4 sec	
Whitestone Pt. Lt. 1.....	F. G.	
Throgs Neck Lt.....	F. R	
Throgs Neck Bridge.....		2 Bl. ev. 20 sec.
Stepping Stones Lt.....	Oc. G. 4 sec.....	1 Bl. ev. 15 sec.
Hart Island Lt. 46.....	Fl. R. 4 sec	
Execution Rock Lt.....	Fl. W. 10 sec.....	1 Bl. ev. 15 sec.

## Ranges and Bearings in the Port New York / New Jersey

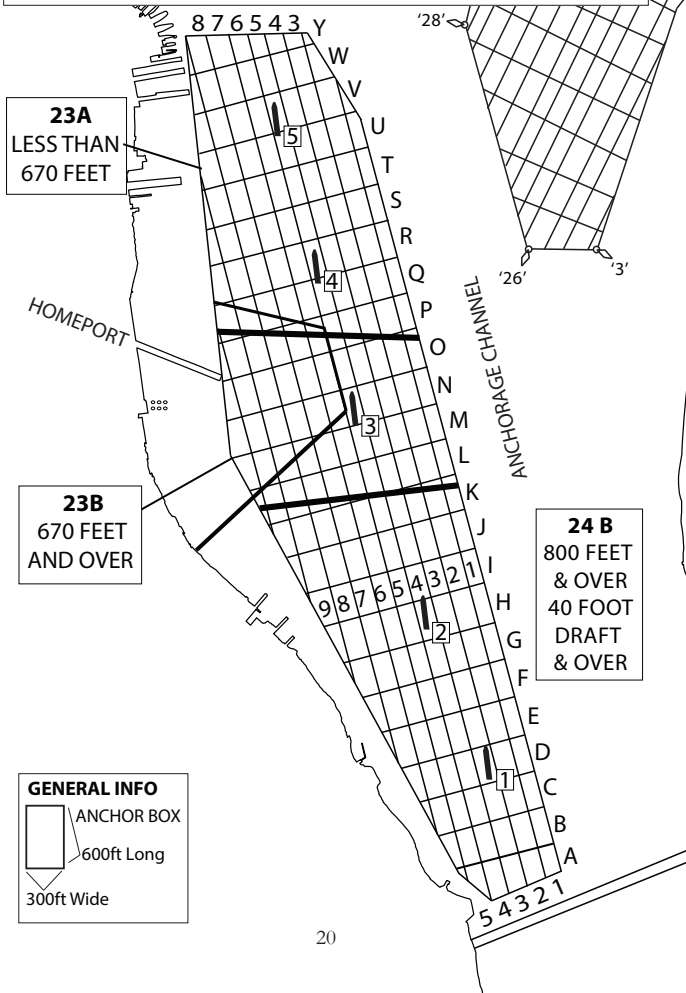
<b>Range</b>	<b>Bearing</b>
Poorhouse Flats Range.....	341.0
Buttermilk.....	069.0
Romer with Main Hook.....	170.5
Ambrose Channel.....	297.0
Swash Channel.....	305.0
Leonardo Range.....	207.5
Constable Hook.....	290.0
Pralls Island.....	185.0
Outerbridge Reach.....	351.5
Sandy Hook Channel (East).....	308.0
Sandy Hook (West).....	067.5

## RACON Buoys in the Port of New York / New Jersey

Ambrose Lighted Whistle Buoy A:	-●
Scotland Light Whistle Buoy S:	--
Sandy Hook Channel Front Range Light:	-●-●
KVK Channel Junction LWB KV:	-●-
Center of Outerbridge Crossing:	---

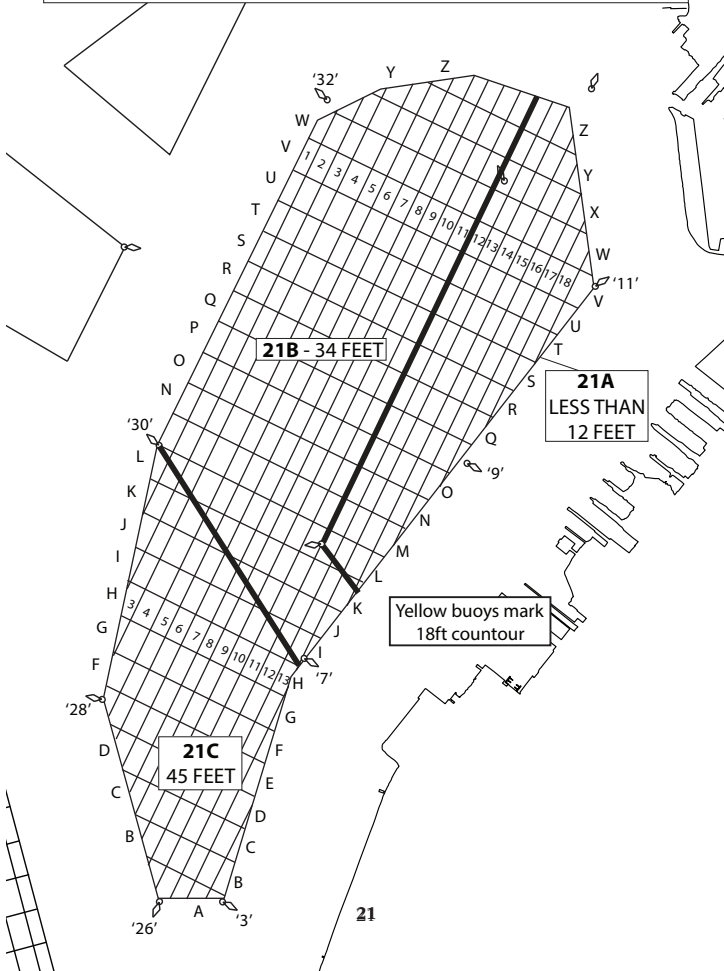
# STAPLETON ANCHORAGE

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12334



# BAY RIDGE FLATS ANCHORAGE

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12334

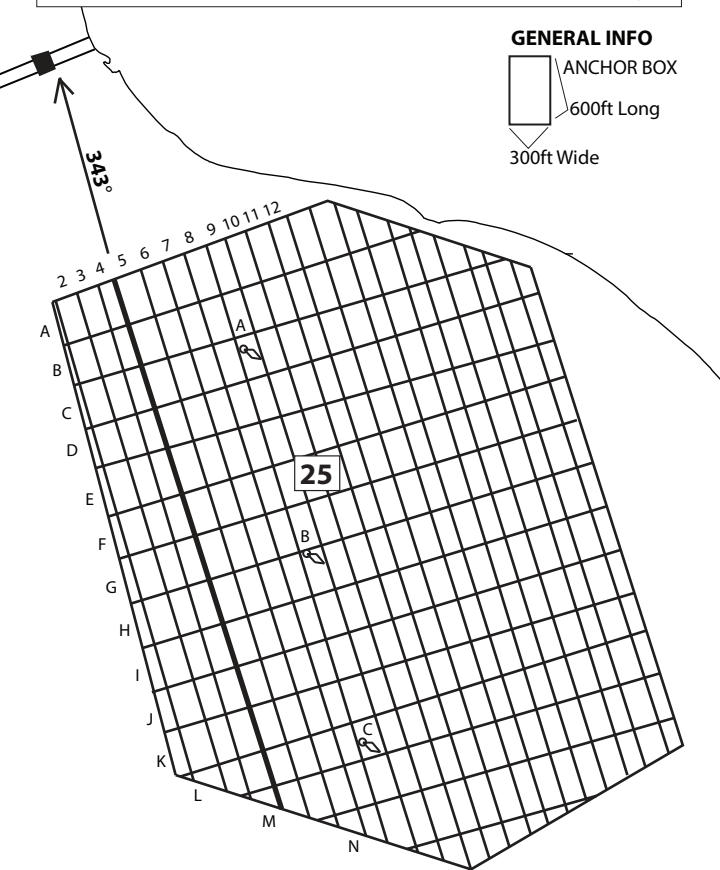
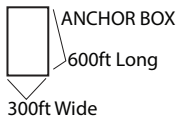


# GRAVESEND BAY ANCHORAGE

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12402



## GENERAL INFO





## **Anchorage**

<b>Number</b>	<b>Locations</b>
19	Hudson River Naval Anchorage
20 - A	Liberty
20 - B	North Side Bayonne Naval Terminal
21 - B	Red Hook Flats
23	Staten Island
24	Quarantine
25	Gravesend Bay (Eastern Part)
27	Sandy Hook
44	Perth Amboy
49 - C	Gravesend Bay (Western Part)
49 - G	Leonardo

## **Anchorage Regulations**

WHEN ANCHORED IN FEDERAL ANCHORAGE 20-A THROUGH 20-G, 21-A, 21-B, 21-C, 23-A AND 23-B, 24 OR 25 MUST COMPLY WITH THE FOLLOWING REQUIREMENTS:

- MAINTAIN A BRIDGE WATCH.
- GUARD AND ANSWER CHANNEL 16 FM AND MAINTAIN AN ACCURATE POSITION PLOT.
- NOTIFY THE COAST GUARD ON CHANNEL 12 WHEN COMMENCING AND COMPLETING THE TRANSFERRING OF PETROLEUM PRODUCTS.
- NOTIFY THE COAST GUARD ON CHANNEL 12 WHEN ANCHORED AND WHEN LEAVING THE ANCHORAGE.

# UPPERBAY - WEST PART

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12334



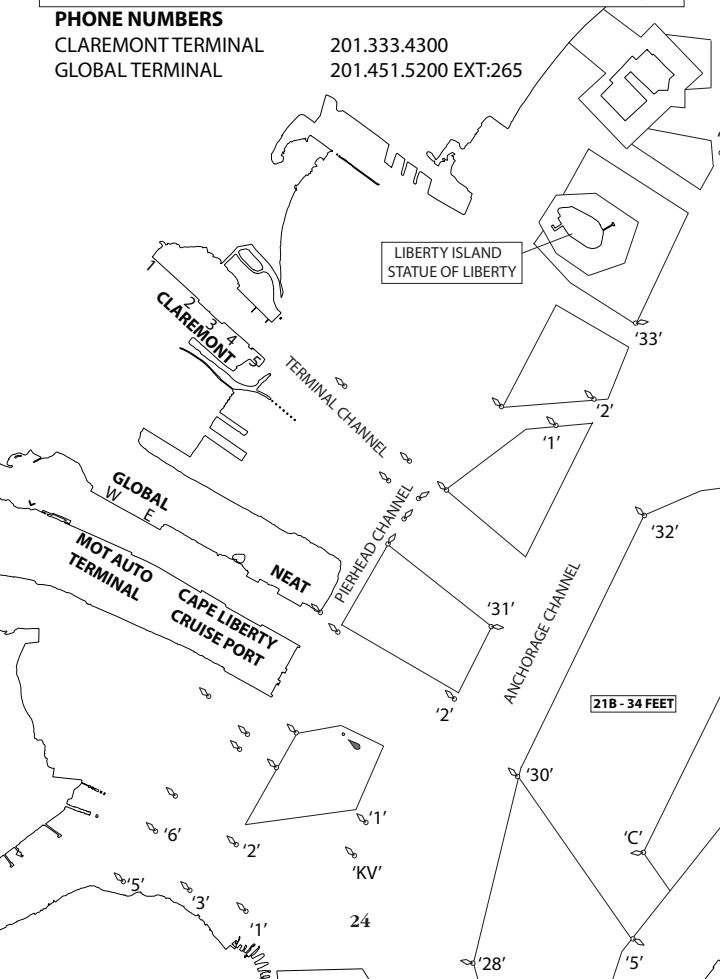
## PHONE NUMBERS

CLAREMONT TERMINAL

201.333.4300

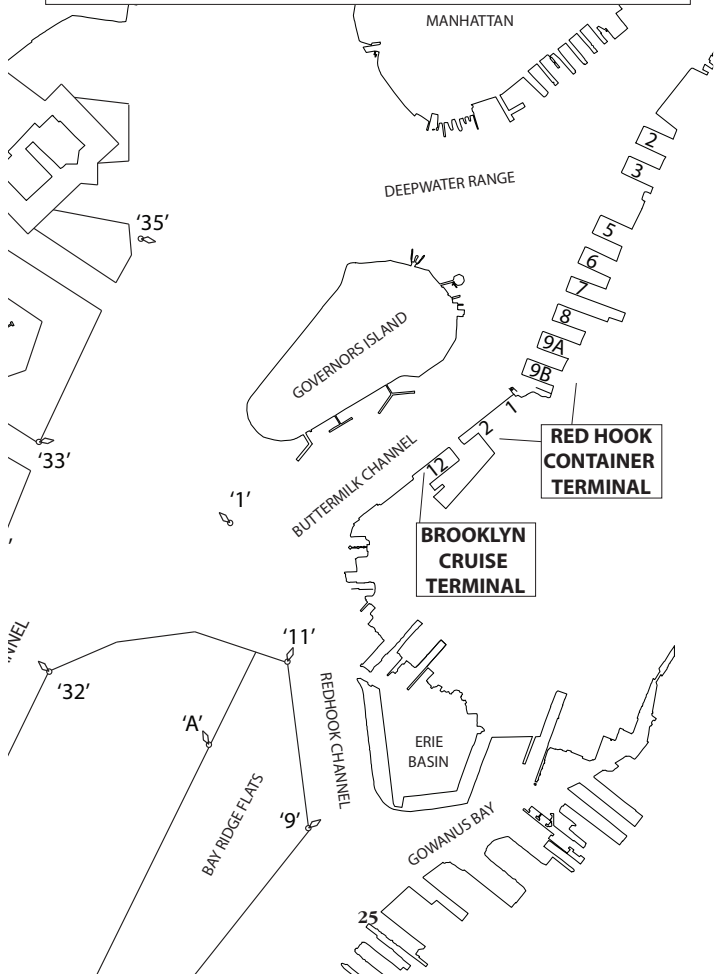
GLOBAL TERMINAL

201.451.5200 EXT:265



# UPPERBAY - EAST PART

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MANHATTAN

DEEPWATER RANGE

GOVERNORS ISLAND

BUTTERMILK CHANNEL

**RED HOOK  
CONTAINER  
TERMINAL**

**BROOKLYN  
CRUISE  
TERMINAL**

ERIE BASIN

REDHOOK CHANNEL

GOWANUS BAY

BAY RIDGE FLATS

'35'

'33'

'1'

'11'

'32'

'A'

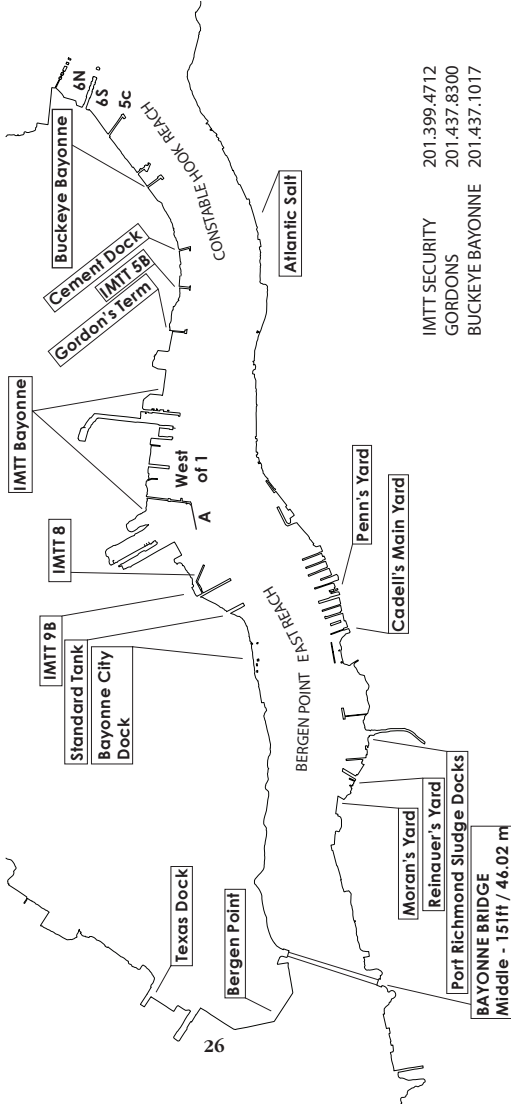
'9'

25

"VNEL

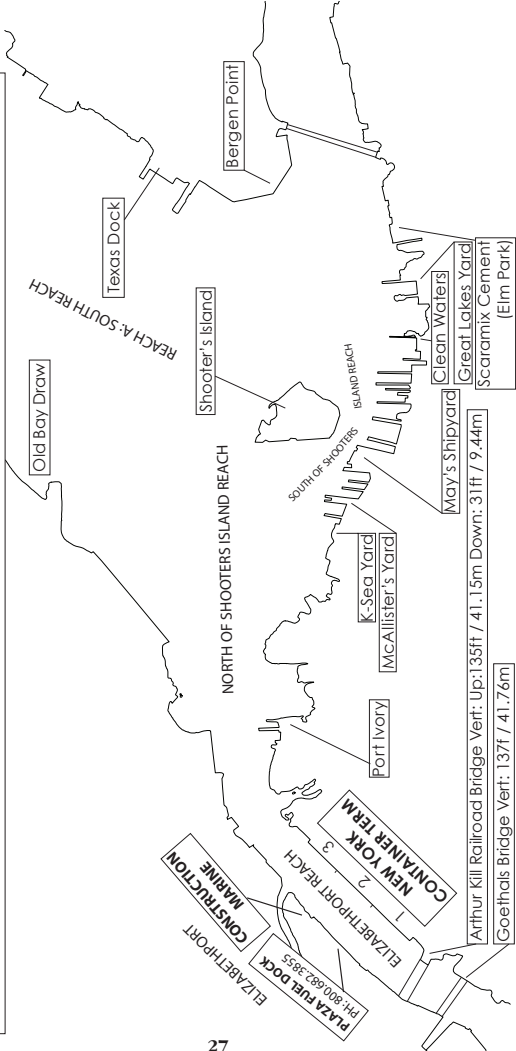
# KILL VAN KULL

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12333



# NORTHERN PART OF ARTHUR KILL

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12333

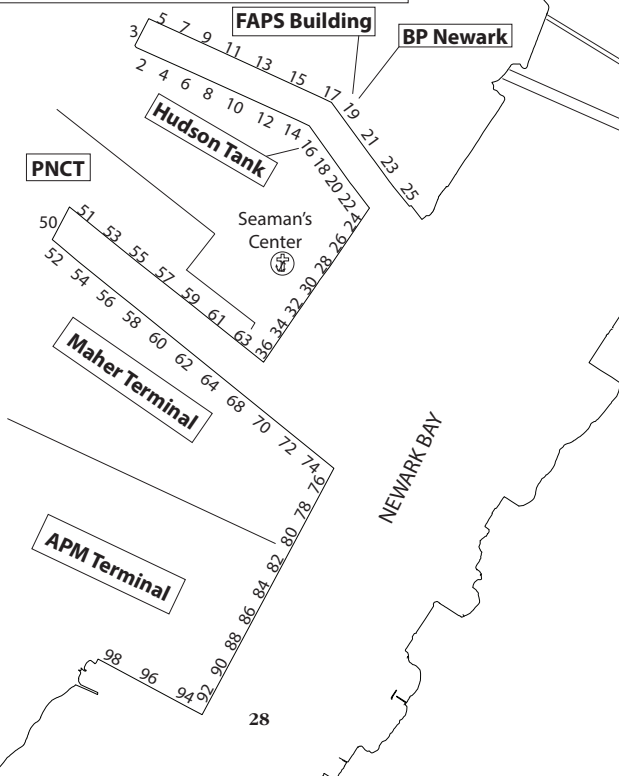


# NEWARK BAY

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12333



Hudson Tank	201.803.1166
APM Terminal S/L Bus	908.558.6138
APM Terminal S/L Security	908.558.6163
	908.558.6161
Maher Terminal	908.527.8200 Ext.4799
PNCT	973.522.2308
Van Iderstien	973.465.1900 Ext.121



# PASSAIC & HACKENSACK RIVERS

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12337



Witt Penn Bridge  
Ph: 201.795.0631

Triple Bridges  
H: 158ft  
V: 7 - 135ft / 2.13 - 41.5M  
Ph: 973.690.2609

Penn Pass. - Path Control  
H: 168ft  
V: 40 - 135ft / 12.19 - 41.15M  
Ph: 201.216.6552

Pulaski Highway  
H: 300ft  
V: 135ft / 41.15M

Lower Hack  
H:150ft / V:40ft-135ft  
Ph: 201.714.2958

Lincoln Highway  
H:200ft / V: 35ft-135ft  
ph: 201.332.2779  
973.589.5143

Kearny Point

Van Iderstien / Darling Int'l  
Ph: 973.465.1900x121

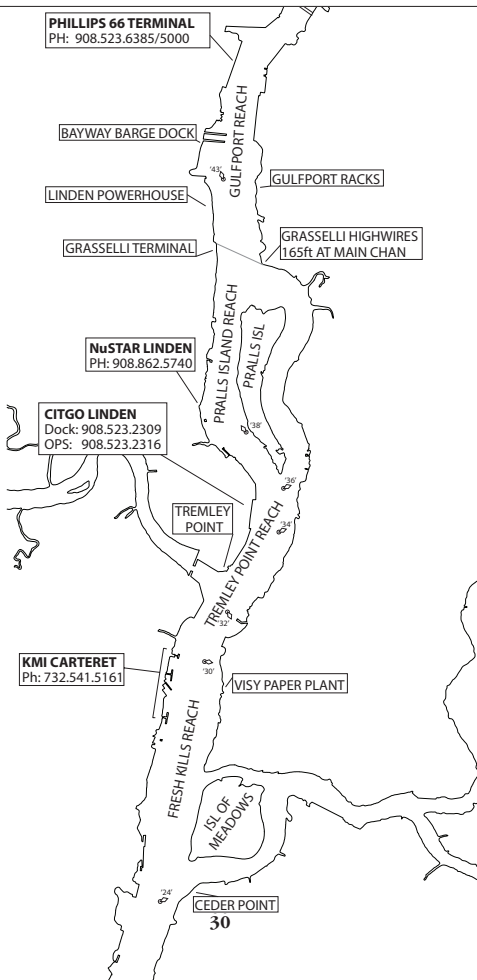
DEP Dock

Lehigh Valley RR - H300ft  
V:35 - 135ft / 10.67 - 41.15M  
PH: 973.690.2344

NJ Turnpike - H:550ft  
- V:135ft / 41.15M

# ARTHUR KILL NORTH

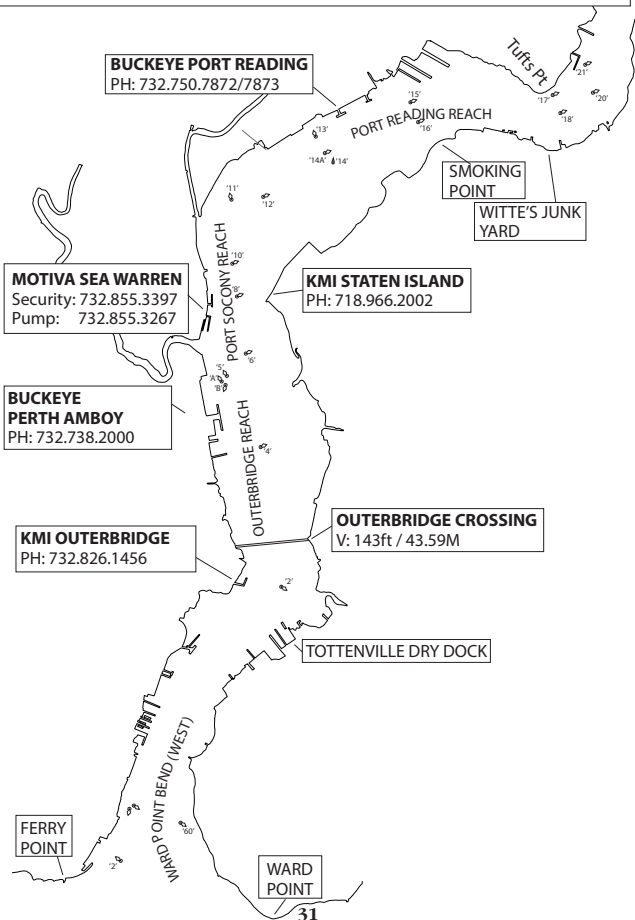
NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12333





# ARTHUR KILL SOUTH

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12331



# NORTH RIVER

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12335



## LINCOLN HARBOR YACHT CLUB

VHF CH 74 & 9 - PH: 201.309.5100

Weehawken Cove

Castle Point

Lackawanna Canal

## NEWPORT MARINA

VHF CH 16

PH: 201.626.5550

Morris Canal Basin

## LIBERTY LANDING MARINA

VHF 72

PH: 201.985.8000

## NORTH COVE MARINA

VHF CH 69 - PH: 212.786.1200

SOUTH COVE MARINA

62 - CHELSEA PIERS /

61 - SURFSIDE 3 /

60 - MARINE MAX

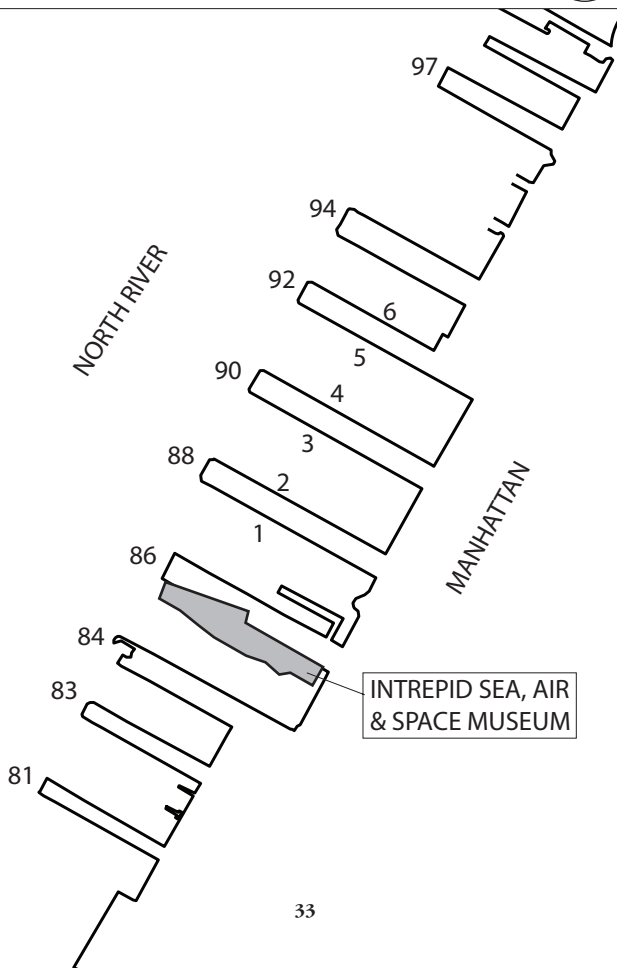
57 VHF CH 68

54 PH 800.650.7873

53

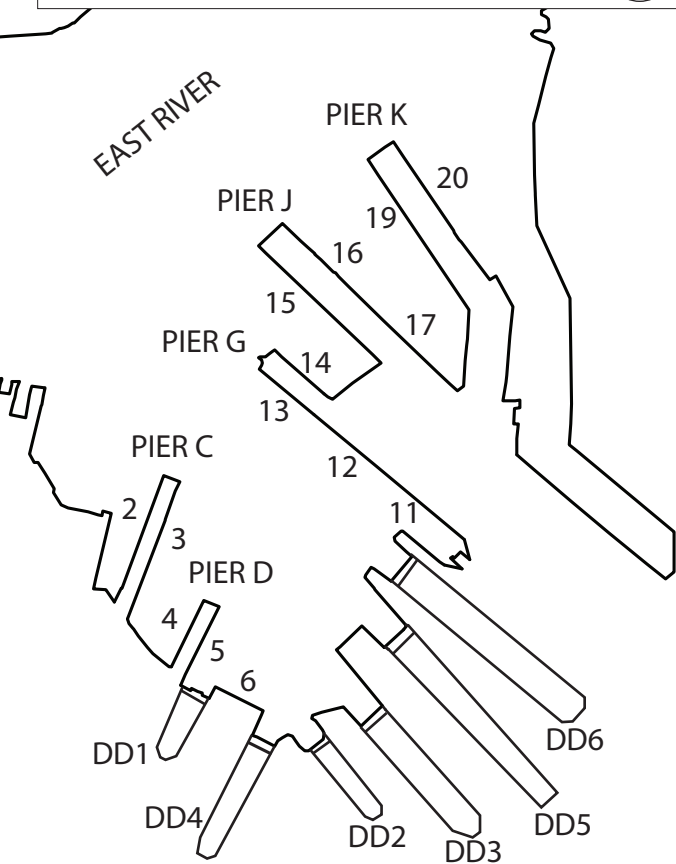
# N. Riv. - Passenger Terminal

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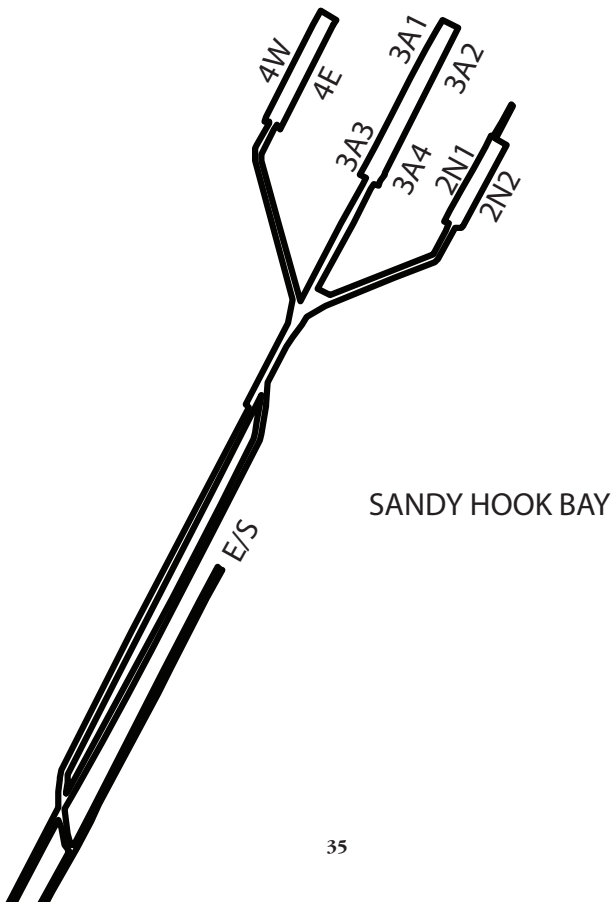
# OLD BROOKLYN NAVY YARD

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12335



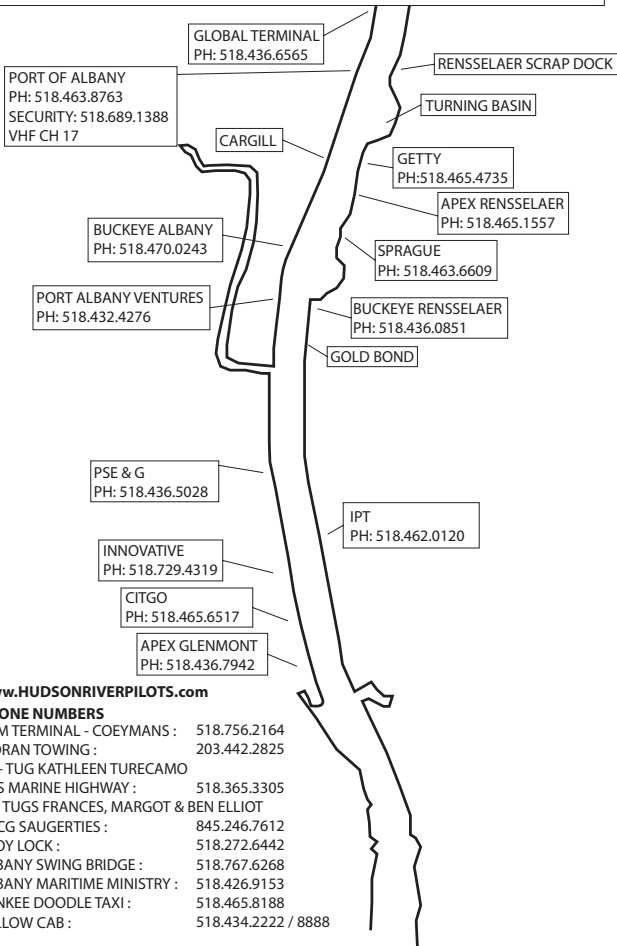
# LEONARDO, EARLE, NJ

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12



# ALBANY

NOT FOR NAVIGATIONAL USE - PLEASE REFERENCE NOAA CHART 12348



[www.HUDSONRIVERPILOTS.com](http://www.HUDSONRIVERPILOTS.com)

## PHONE NUMBERS

P&M TERMINAL - COEYMANS : 518.756.2164  
MORAN TOWING : 203.442.2825  
- TUG KATHLEEN TURECAMO  
NYS MARINE HIGHWAY : 518.365.3305  
- TUGS FRANCES, MARGOT & BEN ELLIOT  
USCG SAUGERTIES : 845.246.7612  
TROY LOCK : 518.272.6442  
ALBANY SWING BRIDGE : 518.767.6268  
ALBANY MARITIME MINISTRY : 518.426.9153  
YANKEE DOODLE TAXI : 518.465.8188  
YELLOW CAB : 518.434.2222 / 8888

## Common Conversion Factors and Metric Tables

Barrels (fuel oil) . . . . .	42.	Gallons (fuel oil)	
British Gallon . . . . .	1.20094	U.S. Gallons	
Cable . . . . .	600.0	Feet	
Centimeters . . . . .	00.3937	Inches	
Cubic Feet . . . . .	1728.0	Cubic Inches	
Cubic Feet (fresh water) . . . . .	62.5	Pounds Fresh Water	
Cubic Feet (sea water) . . . . .	64.0	Pounds Sea Water	
Feet . . . . .	0.3048	Meters	
Gallons . . . . .	3.78533	Liters	
Gallons of Water . . . . .	8.33	Pounds of Water	
Inches . . . . .	2.54	Centimeters	
Kilograms . . . . .	35.274	Ounces	
Kilograms (KG) . . . . .	2.20462	Pounds	
1000 KG (1 metric ton) . . . . .	0.98421	Long Tons	
IGlometers . . . . .	3281.0	Feet	
Knots . . . . .	1.152	Miles Per Hour	
Liters . . . . .	0.2642	Gallons	
Meters . . . . .	3.281	Feet	
Meters . . . . .	1.0936	Yards	
Miles . . . . .	1.609	Kilometers	
Miles (land) . . . . .	.5280	Feet	
Miles (nautical) . . . . .	6080	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 Feet Fresh Water	
Tons (long) Sea Water . . . . .	35	Cubic Feet Sea Water	
Yards . . . . .	0.9144	Meters	
Fahrenheit = 915 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 area of a circle, multiply square of diameter by .7854.  
 To find surface of a ball, multiply square of diameter by 3.1416.  
 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 = 0.001 Liters
1 Centiliter = 0.01 Liters
1 Deciliter = 0.1 Liters
1 Dekaliter = 10 Liters
1 Hectoliter = 100 Liters
1 Kiloliter = 1000 Liters

### METRIC LENGTHS

1 Millimeter = 0.001 Meters
1 Centimeter = 0.01 Meters
1 Decimeter = 0.1 Meters
1 Dekameter = 10 Meters
1 Hectometer = 100 Meters
1 Kilometer = 1000 Meters

### BOW THRUSTER CONVERSION

KW. X 1.361 = Horsepower



## **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.

Effective October 28, 1991, the National Ocean Service (NOS) Tidal current charts - New York Harbor will be officially withdrawn from distribution. A recent evaluation shows that tidal currents determined from the New York Harbor charts, last revised in 1976, are not as accurate as those determined from more recent information published in the NOS Tidal Current Tables - Atlantic Coast of North America including Greenland. NOS plans no further revisions of the tidal current chart series.

### **PRECAUTIONARY NOTE - TIDAL CURRENT PREDICTIONS FOR NEW YORK HARBOR**

Tidal currents at The Narrows, and at Hell Gate have been reported to deviate significantly from official predictions published by the National Ocean Service (NOS). Tidal currents in Arthur Kill and Kill Van Kull have also been reported to deviate significantly from prediction computed from table 2 values in the NOS Tidal Current Tables - Atlantic Coast of North America. Such reports cannot, at this time, be either confirmed or dismissed. Until NOS conducts a Quality Assurance Study for these locations, mariners should exercise caution and discretion in the use of published tidal current predictions for these locations.



Enter the table with the duration of rise or fall which most nearly agrees with the actual value and on that horizontal line find the time from the nearest high or low water which agrees most nearly with the corresponding actual difference. The correction sought is in the column directly below, on the line with the range of tide.

HEIGHT OF TIDE AT ANY TIME															
Time from the nearest high water or low water															
Duration		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.		
5.30	0.11	0.22	0.33	0.44	0.55	1.06	1.17	1.28	1.39	1.50	2.01	2.12	2.23	2.34	2.45
6.00	0.12	0.24	0.36	0.48	1.00	1.12	1.24	1.36	1.48	2.00	2.12	2.24	2.36	2.48	3.00
6.20	0.13	0.25	0.38	0.51	1.03	1.16	1.29	1.41	1.54	2.07	2.19	2.32	2.45	2.57	3.10
6.30	0.13	0.26	0.39	0.52	1.05	1.18	1.31	1.44	1.57	2.10	2.23	2.36	2.49	3.02	3.15
6.40	0.13	0.27	0.40	0.53	1.07	1.20	1.33	1.47	2.00	2.13	2.27	2.40	2.53	3.07	3.20
7.00	0.14	0.28	0.42	0.56	1.10	1.24	1.38	1.52	2.06	2.20	2.34	2.48	3.02	3.16	3.30

Correction to height															
Duration		Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.
2.5	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2
3.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.5
3.5	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.4	1.6	1.8
4.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8	2.0
4.5	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2
5.0	0.0	0.1	0.1	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.5
5.5	0.0	0.1	0.1	0.2	0.4	0.5	0.7	0.9	1.1	1.4	1.6	1.9	2.2	2.5	2.8
6.0	0.0	0.1	0.1	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.7	3.0
6.5	0.0	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.2	2.6	2.9	3.2
7.0	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.4	1.8	2.1	2.4	2.8	3.1	3.5
7.5	0.0	0.1	0.2	0.3	0.5	0.7	1.0	1.2	1.5	1.9	2.2	2.6	3.0	3.4	3.8
8.0	0.0	0.1	0.2	0.3	0.5	0.8	1.0	1.3	1.6	2.0	2.4	2.8	3.2	3.6	4.0
8.5	0.0	0.1	0.2	0.4	0.6	0.8	1.1	1.4	1.8	2.1	2.5	2.9	3.4	3.8	4.2
9.0	0.0	0.1	0.2	0.4	0.6	0.9	1.2	1.5	1.9	2.2	2.7	3.1	3.6	4.0	4.5

## VELOCITY OF CURRENT AT ANY TIME

Places except Hell Gate, Cape Cod Canal, C & D Canal. Interval between slack and maximum current

hrs. mins.	1 20	1 40	2 00	2 20	2 40	3 00	3 20	3 40	4 00	4 20	4 40	5 00	5 20	5 40
	Interval bet. slack & desired time	0 20	0 40	0 60	0 80	1 00	1 20	1 40	1 60	1 80	2 00	2 20	2 40	2 60
0 20	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0 40	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
1 00	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3
1 20	1.0	1.0	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4
1 40	.....	1.0	1.0	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4
2 00	.....	.....	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5
2 20	.....	.....	.....	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6
2 40	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7	0.7
3 00	.....	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7
3 20	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8
3 40	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.9	0.8
4 00	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9
4 20	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9
4 40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0

Hell Gate, Cape Cod Canal, C & D Canal. Interval between slack and maximum current

hrs. mins.	1 20	1 40	2 00	2 20	2 40	3 00	3 20	3 40	4 00	4 20	4 40	5 00	5 20	5 40
	Interval bet. slack & desired time	0 20	0 40	0 60	0 80	1 00	1 20	1 40	1 60	1 80	2 00	2 20	2 40	2 60
0 20	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
0 40	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
1 00	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4
1 20	1.0	1.0	1.0	0.9	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5
1 40	.....	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6
2 00	.....	.....	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.6
2 20	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7	0.7
2 40	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7
3 00	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8
3 20	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8
3 40	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	1.0	0.9	0.9
4 00	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	1.0	0.9
4 20	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9
4 40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0

# Tidal Differences & Other Constants on New York, NY

PLACE	POSITION		DIFFERENCES			
	LAT.	LONG.	TIME		HEIGHT	
			High water	Low water	High water	Low water
<b>NEW YORK</b>	° ' N.	° ' W.	h. m.	h. m.	feet	feet
Time meridian, 75° W.						
<b>East River</b>						
Hell Gate, Ward's Island	40 47	73 55	+ 2 59	+ 3 45	+ 1.4	0.0
Hell Gate, Hallets Point	40 47	73 56	+ 2 04	+ 2 07	+ 0.5	0.0
Horns Hook, E. 90th Street	40 47	73 56	+ 1 52	+ 1 34	+ 0.1	0.0
Roosevelt Island, north end	40 46	73 56	+ 1 49	+ 1 28	+ 0.2	0.0
37th Avenue, Long Island City	40 46	73 57	+ 1 34	+ 1 13	- 0.1	0.0
East 41st Street, New York City	40 45	73 58	+ 1 07	+ 0 48	- 0.3	0.0
Hunters Point, Newtown Creek	40 44	73 57	+ 1 22	+ 0 56	- 0.5	0.0
English Kills Ent., Newtown Creek	40 43	73 55	+ 1 34	+ 1 07	- 0.4	0.0
East 27th Street, Bellevue Hospital	40 44	73 58	+ 1 12	+ 1 06	- 0.4	0.0
East 19th Street, New York City	40 44	73 58	+ 1 06	+ 1 01	- 0.5	0.0
North 3rd Street, Brooklyn	40 43	73 58	+ 0 59	+ 0 45	- 0.5	0.0
Williamsburg Bridge	40 43	73 58	+ 0 56	+ 0 41	- 0.5	0.0
Wallabout Bay	40 42	73 58	+ 0 32	+ 0 22	- 0.3	0.0
Brooklyn Bridge	40 42	74 00	+ 0 17	+ 0 10	- 0.3	0.0
<b>NEW YORK and NEW JERSEY</b>						
<b>New York Harbor</b>						
Bay Ridge	40 38	74 02	- 0 20	- 0 21	0.0	0.0
St. George, Staten Island	40 39	74 04	- 0 17	- 0 15	- 0.1	0.0
Bayonne, New Jersey	40 41	74 06	- 0 15	- 0 05	- 0.1	0.0
Gowanus Bay	40 40	74 01	- 0 15	- 0 12	- 0.2	0.0
Governors Island	40 42	74 01	- 0 07	- 0 03	- 0.2	0.0
NEW YORK (The Battery)	40 42	74 01	Daily Predictions			
<b>Hudson River*</b>						
Jersey City Con. Rail. RR. Ferry, N.J.	40 43	74 02	+ 0 11	+ 0 10	- 0.2	0.0
New York, Desbrosses Street	40 43	74 01	+ 0 14	+ 0 13	- 0.2	0.0
New York, Chelsea Docks	40 45	74 01	+ 0 21	+ 0 19	- 0.3	0.0
Hoboken, Castle Point, N.J.	40 45	74 01	+ 0 21	+ 0 19	- 0.3	0.0
Weehawken, Days Point, N.J.	40 46	74 01	+ 0 28	+ 0 26	- 0.4	0.0
New York, Union Stock Yards	40 47	74 00	+ 0 31	+ 0 29	- 0.4	0.0
New York, 130th Street	40 49	73 58	+ 0 41	+ 0 38	- 0.6	0.0
George Washington Bridge	40 51	73 57	+ 0 50	+ 0 46	- 0.7	0.0

\* Values for the Hudson River above the George Washington Bridge are based upon averages for the six months May to October period, when the fresh-water discharge is a minimum.

# Tidal Differences & Other Constants on New York, NY

PLACE	POSITION		DIFFERENCES			
	LAT.	LONG.	TIME		HEIGHT	
			High water	Low water	High water	Low water
<b>NEW YORK</b>	° ' N.	° ' W.	h. m.	h. m.	feet	feet
Time meridian, 75° W.						
<b>Hudson River, continued</b>						
Spuyten Duyvil West of RR Bridge . . . . .	40 53	73 56	+ 1 02	+ 0 56	- 0.8	0.0
Riverdale . . . . .	40 54	73 55	+ 0 49	+ 0 49	- 0.7	0.0
Yonkers . . . . .	40 56	73 54	+ 1 13	+ 1 13	- 0.9	0.0
Dobbs Ferry . . . . .	41 01	73 53	+ 1 33	+ 1 43	- 1.2	0.0
Tarrytown . . . . .	41 05	73 52	+ 1 49	+ 1 57	- 1.4	0.0
Ossining . . . . .	41 10	73 52	+ 1 57	+ 2 17	- 1.5	0.0
Haverstraw . . . . .	41 12	73 58	+ 2 03	+ 2 28	- 1.7	0.0
Peekskill . . . . .	41 17	73 56	+ 2 28	+ 3 03	- 1.4	+ 0.3
West Point . . . . .	41 24	73 57	+ 3 20	+ 3 40	- 1.6	+ 0.3
Newburgh . . . . .	41 30	74 00	+ 3 46	+ 4 03	- 1.6	+ 0.2
New Hamburg . . . . .	41 35	73 57	+ 4 04	+ 4 28	- 1.6	+ 0.1
Poughkeepsie . . . . .	41 42	73 57	+ 4 34	+ 4 46	- 1.4	+ 0.1
Hyde Park . . . . .	41 47	73 57	+ 5 00	+ 5 12	- 1.4	0.0
Kingston Point . . . . .	41 56	73 58	+ 5 20	+ 5 34	- 1.0	- 0.1
Tivoli . . . . .	42 04	73 56	+ 5 50	+ 6 04	- 0.9	- 0.2
Catskill . . . . .	42 13	73 51	+ 6 41	+ 6 58	- 0.8	- 0.3
Hudson . . . . .	42 15	73 48	+ 6 58	+ 7 12	- 1.0	- 0.4
Albany . . . . .	42 39	73 45	<b>DAILY PREDICTIONS</b>			
<b>The Kills and Newark Bay</b>						
Kill Van Kull						
Constable Hook . . . . .	40 39	74 05	- 0 30	- 0 18	- 0.1	0.0
New Brighton . . . . .	40 39	74 05	- 0 08	- 0 15	- 0.1	0.0
Port Richmond . . . . .	40 38	74 08	+ 0 01	+ 0 08	- 0.1	0.0
Bergen Point . . . . .	40 39	74 08	+ 0 07	+ 0 06	0.0	0.0
Shooters Island . . . . .	40 39	74 10	+ 0 10	+ 0 21	0.0	0.0
Port Elizabeth . . . . .	40 40	74 08	- 0 02	+ 0 15	+ 0.5	0.0
Port Newark Terminal . . . . .	40 41	74 08	+ 0 03	+ 0 21	+ 0.5	0.0
Point No Point . . . . .	40 44	74 07	0 00	+ 0 22	+ 0.7	0.0
Newark, Passaic River . . . . .	40 44	74 10	+ 0 26	+ 0 55	+ 0.5	0.0
Belleville . . . . .	40 47	74 09	+ 0 04	+ 0 43	+ 0.9	0.0
Passaic, Gregory Ave. Bridge . . . . .	40 51	74 07	+ 0 53	+ 2 00	+ 0.5	0.0
Hackensack River						
Kearney Point . . . . .	40 44	74 06	+ 0 13	+ 0 36	+ 0.4	0.0
Secaucus . . . . .	40 48	74 04	+ 1 17	+ 1 12	+ 0.5	0.0
Uttle Ferry . . . . .	40 51	74 02	+ 1 26	+ 1 17	+ 0.7	0.0
Hackensack . . . . .	40 53	74 02	+ 1 37	+ 2 01	+ 0.7	0.0

## Tidal Differences & Other Constants on New York, NY

PLACE	POSITION		DIFFERENCES			
	LAT.	LONG.	TIME		HEIGHT	
			High water	Low water	High water	Low water
<b>NEW YORK</b>	• ' N.	• ' W.	h. m.	h. m.	feet	feet
Time meridian, 75° W.						
<b>The Kills and Newark Bay</b>						
Arthur Kill						
Elizabethport . . . . .	40 39	74 11	+ 0 24	+ 0 41	+ 0.2	0.0
Chelsea . . . . .	40 36	74 12	+ 0 23	+ 0 37	+ 0.3	0.0
Carteret . . . . .	40 35	74 13	+ 0 22	+ 0 27	+ 0.6	0.0
Rossville . . . . .	40 33	74 13	+ 0 16	+ 0 27	+ 0.6	0.0
Tottenville . . . . .	40 31	74 15	+ 0 02	+ 0 15	+ 0.6	0.0
Perth Amboy . . . . .	40 30	74 16	+ 0 12	+ 0 21	+ 0.5	0.0
<b>Lower New York Bay, Raritan Bay, etc.</b>						
New Dorp Beach . . . . .	40 34	74 06	- 0 05	+ 0 15	+ 0.2	0.0
Great Kills Harbor . . . . .	30 33	74 08	+ 0 06	+ 0 21	0.0	0.0
Princess Bay . . . . .	30 31	74 12	0 00	+ 0 06	+ 0.2	0.0
Raritan River						
South Amboy . . . . .	40 29	74 17	+ 0 04	+ 0 06	+ 0.3	0.0
Washington Canal . . . . .	40 28	74 22	+ 0 33	+ 0 52	+ 0.9	0.0
South River Highway Bridge . . . . .	40 27	74 22	+ 0 54	+ 1 04	+ 0.8	0.0
New Brunswick . . . . .	40 29	72 26	+ 0 45	+ 1 28	+ 1.1	0.0
Keyport . . . . .	40 26	74 12	+ 0 07	+ 0 21	+ 0.3	0.0
Keansburg . . . . .	40 27	74 09	- 0 04	+ 0 01	+ 0.2	0.0
Port Monmouth . . . . .	40 26	74 05	- 0 03	0 00	+ 0.1	0.0
Atlantic Highlands . . . . .	40 25	74 02	- 0 02	+ 0 02	0.0	0.0
SANDY HOOK . . . . .	40 28	74 01	<b>DAILY PREDICTIONS</b>			

## New Jersey Outer Coast & Long Island Sound

Abseson Channel . . . . . Sandy Hook	+ 0 11	- 0 09	*0.84	3.9	4.7
Cape May Harbor . . . . . Sandy Hook	- 0 03	- 0 14	*0.94	4.4	5.3
Coney Island . . . . . Sandy Hook	- 0 04	- 0 17	*1.01	4.7	5.7
Norton Pt. J. Bay . . . . . Sandy Hook	+ 0 38	+ 0 45	*1.16	5.4	6.5
Rockaway Inlet . . . . . Sandy Hook	- 0 01	- 0 04	*1.07	5.0	6.0
Beach Chan. Bdge. . . . . Sandy Hook	+ 0 37	+ 0 24	*1.09	5.1	6.2
E. Rkaway Inlet . . . . . Sandy Hook	- 0 07	- 0 14	*0.88	4.1	5.0
Fire Is. Inlet . . . . . Sandy Hook	- 0 39	- 0 27	*0.56	2.6	3.1

## Current Differences and Constants

### Reference Station - The Narrows

PLACE	TIME DIFFERENCES				AVG. SP. / DIR.		
	Min. Before Flood	Max. Flood	Min. Before Ebb	Max. Ebb	Max. Flood	Max. Ebb	
	h.m.	h.m.	h.m.	h.m.	kts.	deg.	kts.
<b>New York Lower Bay and Raritan Bay &amp; River</b>							
Ambrose Entrance . . . . .	- 0 57	- 1 10	- 0 25	- 0 07	1.6	303	1.7
Coney Is. Channel . . . . .	- 1 21	- 0 44	- 0 24	- 0 48	1.1	293	1.2
The Narrows . . . . .	<b>DAILY PREDICTIONS</b>						
off Sandy Hook Pt . . . . .	- 1 51	- 1 55	- 1 30	- 1 50	2.0	235	1.6
S W Spit . . . . .	- 1 45	- 2 00	- 1 50	- 1 42	0.6	263	0.6
Channel Seguine Pt. . . . .	- 2 02	- 2 50	- 0 48	- 2 08	0.7	281	0.3
Channel Seguine Pt. 34 . . . . .	- 3 38	- 2 51	- 0 13	- 2 24	0.5	285	0.2
P. Amboy R.R. Br. . . . .	- 2 12	- 2 25	- 1 15	- 2 01	0.9	326	0.7
<b>Upper Bay &amp; Hudson River</b>							
Bay Ridge Channel 15' . . . . .	- 0 58	- 1 26	+ 0 04	- 1 17	1.0	032	0.7
Bay Ridge Channel 36' . . . . .	- 1 35	- 2 36	- 0 50	- 0 09	0.6	037	0.4
Red Hook Channel . . . . .	- 1 03	- 0 44	- 0 08	- 0 30	1.0	353	0.7
E. of Robbins Reef . . . . .	+ 0 16	+ 0 16	+ 0 02	+ 0 24	1.3	016	1.6
I mi. W of Red Hook . . . . .	+ 0 41	+ 1 06	+ 0 47	+ 0 52	1.3	024	2.3
E. of Liberry . . . . .	+ 0 57	+ 0 58	+ 0 56	+ 0 59	1.4	031	1.9
NW of Battery . . . . .	+ 0 49	+ 1 12	+ 1 22	+ 2 18	1.4	009	1.4
Grant's Tomb 16' . . . . .	+ 1 10	+ 0 46	+ 1 42	+ 2 06	1.6	024	1.9
Grant's Tomb 18' . . . . .	+ 1 04	+ 1 18	+ 1 58	+ 1 27	1.8	025	1.8
G. Washington Br . . . . .	+ 1 41	+ 1 55	+ 1 50	+ 2 08	1.6	020	2.2
Riverdale . . . . .	+ 2 11	+ 2 07	+ 2 02	+ 2 32	1.4	015	2.0
Haverstraw . . . . .	+ 2 55	+ 3 08	+ 3 13	+ 3 26	0.8	355	1.3
Peekskill . . . . .	+ 3 10	+ 3 24	+ 3 33	+ 3 42	0.8	000	1.2
West Point . . . . .	+ 3 32	+ 3 47	+ 3 51	+ 4 04	1.0	010	1.1
Newburgh . . . . .	+ 3 50	+ 4 06	+ 4 03	+ 4 21	0.9	005	1.1
Poughkeepsie . . . . .	+ 4 26	+ 4 37	+ 4 21	+ 4 49	1.1	005	1.2
Kingston . . . . .	+ 5 09	+ 5 09	+ 4 54	+ 5 19	1.3	005	1.6
Hudson . . . . .	+ 6 23	+ 6 45	+ 6 20	+ 6 15	1.6	030	2.0
Albany . . . . .	+ 8 29	+ 7 32	+ 6 46	+ 7 47	0.3	020	0.8
Troy . . . . .							0.7

## Current Differences and Constants

### Reference Station - The Narrows

PLACE	TIME DIFFERENCES				AVG. SP. / DIR.		
	Min. Before Flood	Max. Flood	Min. Before Ebb	Max. Ebb	Max. Flood	Max. Ebb	
	h.m.	h.m.	h.m.	h.m.	kts.	deg.	kts.
<b>Kill Van Kull &amp; Arthur Kill</b>							
W. New Brighton 15' . . . . .	- 1 44	- 2 08	- 1 24	- 1 43	1.3	262	1.9
W. New Brighton 12' . . . . .	- 2 00	- 2 19	- 1 38	- 1 14	1.3	259	1.4
Elizabeth port. . . . .	+ 0 05	- 0 09	+ 0 32	+ 0 04	1.4	090	1.1
Carteret . . . . .	- 0 18	- 0 54	+ 0 31	+ 0 29	0.9	015	0.8
Tufts Point . . . . .	- 0 48	- 0 44	- 0 24	- 1 00	1.2	109	1.2
Tottenville 15' . . . . .	- 1 14	- 1 25	- 0 33	- 1 23	1.0	023	1.1
Tottenville 32' . . . . .	- 1 33	- 1 05	- 0 48	- 1 03	0.6	026	0.5
<b>Newark Bay, Hackensack &amp; Passaic Rivers</b>							
South Reach . . . . .	- 0 56	- 1 45	- 0 51	- 1 06	0.7	031	0.7
Lincoln Hway. H. River . . . . .	- 0 06	+ 0 12	+ 0 47	- 0 14	0.9	017	0.8
Lincoln Hway. P. River. . . . .	- 0 31	- 0 19	- 0 12	- 0 20	0.6	009	0.5
<b>East River Reference Station Hell Gate</b>							
Buttermilk Channel . . . . .	- 0 12	- 0 18	- 0 06	+ 0 18	1.8	050	2.4
(See Caution Note)							
Brooklyn Bridge . . . . .	- 0 18	+ 0 08	- 0 04	- 0 07	2.9	046	3.5
Corlears Hook . . . . .	- 0 05	+ 0 12	- 0 01	+ 0 10	2.7	020	2.9
Off Pier 67, 19th St. . . . .	- 0 08	+ 0 08	- 0 08	+ 0 07	1.8	355	1.9
Hell Gate . . . . .	<b>DAILY PREDICTIONS</b>						
Port Morris . . . . .	- 0 17	+ 0 04	- 0 06	- 0 12	1.5	054	1.2
Hunts Point SW of . . . . .	+ 0 01	- 0 10	+ 0 01	- 0 05	1.7	108	1.3
Old Ferry Point . . . . .	- 0 34	- 0 46	- 0 10	- 1 27	1.7	076	1.0

Caution: During the first 2 hours of flood in channel north of Governors Island, the current in the Hudson River is still ebbing, while during the first 1.5 hours of ebb in this channel the current in the Hudson is still flooding.

**Albany, N.Y.—January 2015—Eastern Standard Time**  
**Times and Heights of High and Low Waters**

<b>1</b> Th	00:48 5.1 07:41 -0.4 13:17 5.5 20:26 -0.4	<b>8</b> Th	01:03 0.0 06:25 4.7 12:55 0.4 18:22 5.0	<b>16</b> F	00:26 4.2 07:05 0.4 12:41 5.0 20:07 0.4	<b>24</b> Sa	01:54 -0.5 07:08 5.2 14:14 -0.4 19:31 5.5
<b>2</b> F	01:42 5.1 08:33 -0.4 14:07 5.5 21:20 -0.4	<b>9</b> F	01:41 0.1 07:10 4.6 13:35 0.5 19:01 4.9	<b>17</b> Sa	01:21 4.3 08:03 0.3 13:31 5.2 21:01 0.2	<b>25</b> Su	02:44 -0.4 08:06 5.2 15:11 -0.3 20:32 5.4
<b>3</b> Sa	02:33 5.1 09:23 -0.3 14:54 5.6 22:10 -0.5	<b>10</b> Sa	02:19 0.2 07:55 4.6 14:16 0.6 19:40 4.8	<b>18</b> Su	02:11 4.4 08:59 0.1 14:17 5.4 21:53 0.0	<b>26</b> M	03:36 -0.4 09:04 5.3 16:10 -0.2 21:32 5.2
<b>4</b> Su	03:21 5.1 10:09 -0.2 15:38 5.5 22:56 -0.4	<b>11</b> Su	02:56 0.3 08:39 4.6 15:03 0.7 20:22 4.6	<b>19</b> M	02:57 4.6 09:52 -0.1 15:03 5.6 22:43 -0.2	<b>27</b> Tu	04:29 -0.3 10:02 5.3 17:10 -0.1 22:31 5.1
<b>5</b> M	04:08 5.0 10:54 -0.1 16:21 5.4 23:41 -0.3	<b>12</b> M	03:34 0.4 09:22 4.7 15:59 0.8 21:15 4.4	<b>20</b> Tu	03:43 4.8 10:44 -0.2 15:49 5.7 23:31 -0.4	<b>28</b> W	05:24 -0.2 11:01 5.3 18:10 -0.1 23:30 5.0
<b>6</b> Tu	04:54 4.9 11:36 0.1 17:02 5.3	<b>13</b> Tu	04:17 0.4 10:06 4.7 17:01 0.8 22:20 4.3	<b>21</b> W	04:30 4.9 11:36 -0.4 16:39 5.7	<b>29</b> Th	06:20 -0.1 11:59 5.3 19:08 -0.1
<b>7</b> W	00:23 -0.2 05:40 4.8 12:16 0.2 17:42 5.1	<b>14</b> W	05:07 0.5 10:55 4.8 18:06 0.8 23:25 4.2	<b>22</b> Th	00:18 -0.5 05:19 5.0 12:27 -0.4 17:33 5.7	<b>30</b> F	00:28 5.0 07:15 -0.1 12:55 5.3 20:04 -0.2
<b>8</b> Th	01:03 0.0 06:25 4.7 12:55 0.4 18:22 5.0	<b>15</b> Th	06:05 0.5 11:48 4.9 19:08 0.7	<b>23</b> F	01:06 -0.5 06:12 5.1 13:20 -0.4 18:30 5.6	<b>31</b> Sa	01:23 5.1 08:08 -0.1 13:47 5.4 20:57 -0.3

Time Meridian 75° W. 0000 is midnight. 1200 is noon.



**Albany, N.Y.—February 2015—Eastern Standard Time**  
**Times and Heights of High and Low Waters**

<b>1</b> Su	02:14 5.2 08:59 -0.1 14:35 5.4 21:45 -0.3	<b>9</b> M	02:08 0.4 07:31 5.0 14:34 0.7 19:24 4.8	<b>17</b> Tu	02:34 5.0 09:33 0.1 14:45 5.8 22:18 -0.1	<b>25</b> W ☉	04:00 0.2 09:35 5.5 16:47 0.2 22:10 5.3
<b>2</b> M	03:02 5.2 09:46 -0.1 15:19 5.4 22:31 -0.3	<b>10</b> Tu	02:41 0.5 07:52 5.1 15:26 0.8 20:10 4.6	<b>18</b> W ●	03:22 5.3 10:27 -0.2 15:35 5.9 23:06 -0.2	<b>26</b> Th	04:56 0.4 10:34 5.4 17:46 0.3 23:09 5.2
<b>3</b> Tu ☉	03:47 5.2 10:30 0.0 16:00 5.4 23:13 -0.2	<b>11</b> W	03:20 0.5 08:32 5.2 16:27 0.9 21:09 4.5	<b>19</b> Th	04:09 5.4 11:19 -0.3 16:26 5.9 23:53 -0.3	<b>27</b> F	05:52 0.4 11:33 5.4 18:43 0.3
<b>4</b> W	04:31 5.1 11:12 0.1 16:40 5.3 23:52 -0.1	<b>12</b> Th ☉	04:13 0.6 09:24 5.2 17:33 0.9 22:35 4.4	<b>20</b> F	04:58 5.6 12:11 -0.4 17:19 5.9	<b>28</b> Sa	00:06 5.3 06:48 0.5 12:31 5.4 19:38 0.2
<b>5</b> Th	05:13 5.1 11:52 0.2 17:18 5.2	<b>13</b> F	05:20 0.7 10:28 5.2 18:37 0.8 23:48 4.4	<b>21</b> Sa	00:40 -0.3 05:49 5.6 13:03 -0.3 18:15 5.8		
<b>6</b> F	00:29 0.0 05:53 5.0 12:31 0.3 17:54 5.1	<b>14</b> Sa	06:31 0.7 11:49 5.2 19:38 0.6	<b>22</b> Su	01:28 -0.2 06:42 5.6 13:57 -0.2 19:13 5.6		
<b>7</b> Sa	01:04 0.2 06:32 5.0 13:10 0.5 18:26 5.0	<b>15</b> Su	00:50 4.5 07:36 0.5 12:56 5.4 20:34 0.4	<b>23</b> M	02:16 -0.1 07:39 5.6 14:52 -0.1 20:12 5.5		
<b>8</b> Su	01:37 0.3 07:06 5.0 13:50 0.6 18:51 4.9	<b>16</b> M	01:44 4.8 08:37 0.3 13:53 5.6 21:27 0.1	<b>24</b> Tu	03:07 0.1 08:37 5.6 15:49 0.1 21:11 5.4		

Heights are referred to mean low water during lowest river stages which is the chart datum of soundings.

**ADD ONE HOUR FOR DST**  
**Albany, N.Y.—March 2015—Eastern Standard Time**  
**Times and Heights of High and Low Waters**

<b>1</b> Su	01:02 5.4 07:43 0.4 13:24 5.5 20:29 0.1	<b>9</b> M	00:59 0.6 06:07 5.7 13:30 0.7 18:21 5.2	<b>17</b> Tu	01:20 5.4 08:17 0.6 13:33 5.9 21:00 0.5	<b>25</b> W	02:38 0.7 08:07 5.9 15:26 0.5 20:49 5.6
<b>2</b> M	01:53 5.5 08:34 0.4 14:13 5.6 21:17 0.1	<b>10</b> Tu	01:29 0.7 06:27 5.8 14:14 0.8 18:55 5.1	<b>18</b> W	02:12 5.7 09:15 0.3 14:28 6.0 21:50 0.3	<b>26</b> Th	03:31 0.9 09:06 5.8 16:22 0.6 21:47 5.5
<b>3</b> Tu	02:40 5.6 09:22 0.4 14:57 5.6 22:01 0.1	<b>11</b> W	02:02 0.8 07:04 5.8 15:04 1.0 19:42 5.0	<b>19</b> Th	03:00 6.0 10:09 0.1 15:19 6.2 22:39 0.1	<b>27</b> F ☉	04:26 1.0 10:05 5.6 17:19 0.7 22:45 5.5
<b>4</b> W	03:25 5.7 10:07 0.3 15:38 5.6 22:41 0.1	<b>12</b> Th	02:45 0.9 07:51 5.8 16:02 1.1 20:41 4.9	<b>20</b> F ●	03:47 6.2 11:02 -0.1 16:10 6.2 23:26 0.1	<b>28</b> Sa	05:23 1.1 11:04 5.6 18:14 0.8 23:42 5.6
<b>5</b> Th ○	04:06 5.7 10:49 0.4 16:17 5.5 23:19 0.3	<b>13</b> F ☉	03:41 1.0 08:44 5.8 17:05 1.1 22:01 4.8	<b>21</b> Sa	04:34 6.3 11:54 -0.1 17:02 6.1	<b>29</b> Su	06:19 1.2 12:02 5.6 19:07 0.7
<b>6</b> F	04:44 5.6 11:30 0.4 16:54 5.4 23:54 0.4	<b>14</b> Sa	04:53 1.1 09:47 5.6 18:08 1.1 23:18 4.9	<b>22</b> Su	00:13 0.2 05:23 6.3 12:45 0.0 17:56 6.0	<b>30</b> M	00:37 5.7 07:14 1.1 12:56 5.6 19:57 0.6
<b>7</b> Sa	05:20 5.6 12:09 0.5 17:28 5.3	<b>15</b> Su	06:07 1.1 11:10 5.6 19:09 0.9	<b>23</b> M	01:00 0.3 06:15 6.2 13:38 0.1 18:53 5.8	<b>31</b> Tu	01:28 5.9 08:07 1.0 13:46 5.7 20:43 0.6
<b>8</b> Su	00:28 0.5 05:50 5.6 12:49 0.6 17:57 5.2	<b>16</b> M	00:23 5.1 07:15 0.9 12:30 5.7 20:06 0.7	<b>24</b> Tu	01:48 0.5 07:10 6.1 14:31 0.3 19:51 5.7		

Time Meridian 75° W. 0000 is midnight. 1200 is noon.

**ADD ONE HOUR FOR DST**  
**Albany, N.Y.—April 2015—Eastern Standard Time**  
**Times and Heights of High and Low Waters**

<b>1</b> W	02:15 6.1 08:55 0.9 14:31 5.8 21:26 0.6	<b>9</b> Th	01:40 1.2 06:35 6.4 14:48 1.1 19:28 5.3	<b>17</b> F	02:39 6.5 09:52 0.3 15:02 6.3 22:12 0.4	<b>25</b> Sa ☉	03:54 1.5 09:32 5.7 16:46 1.0 22:18 5.7
<b>2</b> Th	02:58 6.2 09:42 0.7 15:13 5.8 22:07 0.6	<b>10</b> F	02:28 1.3 07:24 6.4 15:42 1.2 20:32 5.3	<b>18</b> Sa ●	03:26 6.7 10:45 0.2 15:52 6.3 22:59 0.4	<b>26</b> Su	04:49 1.6 10:29 5.6 17:39 1.0 23:13 5.7
<b>3</b> F	03:38 6.2 10:25 0.7 15:52 5.7 22:44 0.7	<b>11</b> Sa	03:28 1.4 08:19 6.2 16:41 1.2 21:46 5.3	<b>19</b> Su	04:12 6.7 11:36 0.1 16:43 6.2 23:46 0.5	<b>27</b> M	05:46 1.6 11:27 5.5 18:30 1.0
<b>4</b> Sa ○	04:14 6.2 11:08 0.7 16:29 5.6 23:20 0.8	<b>12</b> Su ☉	04:39 1.4 09:26 6.0 17:41 1.2 22:56 5.4	<b>20</b> M	04:59 6.7 12:27 0.2 17:36 6.0	<b>28</b> Tu	00:07 5.9 06:42 1.5 12:22 5.5 19:19 1.0
<b>5</b> Su	04:45 6.2 11:49 0.7 17:04 5.5 23:54 0.9	<b>13</b> M	05:50 1.4 10:52 5.9 18:41 1.0 23:59 5.6	<b>21</b> Tu	00:33 0.7 05:48 6.5 13:17 0.4 18:31 5.9	<b>29</b> W	00:58 6.0 07:36 1.4 13:14 5.6 20:05 0.9
<b>6</b> M	05:08 6.2 12:31 0.8 17:34 5.4	<b>14</b> Tu	06:57 1.1 12:10 5.9 19:37 0.8	<b>22</b> W	01:20 0.9 06:40 6.3 14:09 0.6 19:28 5.8	<b>30</b> Th	01:45 6.2 08:27 1.2 14:01 5.6 20:48 0.9
<b>7</b> Tu	00:27 1.0 05:22 6.3 13:14 0.9 18:02 5.4	<b>15</b> W	00:57 5.9 07:59 0.9 13:14 6.1 20:31 0.6	<b>23</b> Th	02:09 1.1 07:36 6.1 15:01 0.7 20:25 5.7		
<b>8</b> W	01:01 1.1 05:53 6.4 13:59 1.0 18:39 5.4	<b>16</b> Th	01:50 6.3 08:57 0.5 14:10 6.2 21:22 0.5	<b>24</b> F	03:00 1.3 08:34 5.9 15:54 0.9 21:22 5.6		

Heights are referred to mean low water during lowest river stages which is the chart datum of soundings.

**ADD ONE HOUR FOR DST**  
**Albany, N.Y.—May 2015—Eastern Standard Time**  
**Times and Heights of High and Low Waters**

<b>1</b> F	02:28 6.3 09:15 1.0 14:45 5.6 21:29 0.9	<b>9</b> Sa	02:21 1.3 07:06 6.4 15:23 0.9 20:29 5.5	<b>17</b> Su	03:06 6.7 10:27 0.1 15:35 6.0 22:33 0.4	<b>24</b> Su	03:19 1.5 08:54 5.5 16:09 0.9 21:46 5.4
<b>2</b> Sa	03:07 6.4 10:02 0.8 15:26 5.6 22:09 0.9	<b>10</b> Su	03:22 1.3 08:06 6.3 16:18 0.9 21:33 5.6	<b>18</b> M ●	03:52 6.7 11:18 0.1 16:25 5.9 23:21 0.5	<b>25</b> M ●	04:12 1.6 09:50 5.3 16:57 0.9 22:39 5.5
<b>3</b> Su	03:42 6.5 10:46 0.7 16:04 5.5 22:47 1.0	<b>11</b> M ●	04:28 1.3 09:20 6.0 17:15 0.9 22:36 5.7	<b>19</b> Tu	04:37 6.6 12:07 0.1 17:16 5.8	<b>26</b> Tu	05:09 1.6 10:47 5.2 17:46 1.0 23:32 5.6
<b>4</b> M ○	04:11 6.5 11:30 0.7 16:40 5.4 23:24 1.0	<b>12</b> Tu	05:35 1.2 10:41 5.9 18:12 0.8 23:37 5.9	<b>20</b> W	00:07 0.7 05:24 6.4 12:56 0.3 18:09 5.6	<b>27</b> W	06:06 1.5 11:43 5.1 18:34 1.0
<b>5</b> Tu	04:31 6.5 12:13 0.7 17:15 5.4	<b>13</b> W	06:39 1.0 11:52 5.9 19:09 0.7	<b>21</b> Th	00:53 1.0 06:13 6.1 13:44 0.4 19:03 5.5	<b>28</b> Th	00:22 5.7 07:02 1.4 12:37 5.1 19:21 0.9
<b>6</b> W	00:03 1.1 04:53 6.6 12:57 0.8 17:50 5.3	<b>14</b> Th	00:34 6.2 07:41 0.7 12:55 5.9 20:03 0.5	<b>22</b> F	01:39 1.2 07:05 5.9 14:32 0.6 19:58 5.4	<b>29</b> F	01:10 5.9 07:56 1.1 13:28 5.1 20:06 0.9
<b>7</b> Th	00:43 1.1 05:29 6.6 13:43 0.8 18:32 5.4	<b>15</b> F	01:28 6.4 08:39 0.5 13:51 6.0 20:55 0.4	<b>23</b> Sa	02:28 1.4 07:59 5.7 15:21 0.7 20:53 5.4	<b>30</b> Sa	01:54 6.0 08:48 0.9 14:14 5.1 20:50 0.8
<b>8</b> F	01:29 1.2 06:14 6.6 14:31 0.9 19:26 5.4	<b>16</b> Sa	02:18 6.6 09:34 0.2 14:44 6.0 21:45 0.4	<b>24</b> Su	03:19 1.5 08:54 5.5 16:09 0.9 21:46 5.4	<b>31</b> Su	02:33 6.2 09:37 0.7 14:58 5.1 21:34 0.8

Time Meridian 75° W. 0000 is midnight. 1200 is noon.

**ADD ONE HOUR FOR DST**  
**Albany, N.Y.—June 2015—Eastern Standard Time**  
**Times and Heights of High and Low Waters**

<b>1</b> M	03:08 6.3 10:24 0.5 15:38 5.0 22:17 0.8	<b>9</b> Tu ●	04:14 0.8 09:18 5.7 16:49 0.3 22:15 5.6	<b>17</b> W	04:18 6.1 11:46 -0.2 16:56 5.3 23:43 0.4	<b>25</b> Th	05:26 1.2 10:58 4.5 17:41 0.7 23:39 5.2
<b>2</b> Tu ○	03:38 6.3 11:09 0.4 16:17 5.0 23:00 0.8	<b>10</b> W	05:18 0.7 10:28 5.6 17:45 0.2 23:14 5.8	<b>18</b> Th	05:03 5.9 12:32 -0.1 17:46 5.2	<b>26</b> F	06:26 1.1 11:55 4.4 18:31 0.7
<b>3</b> W	04:04 6.4 11:54 0.3 16:56 5.0 23:44 0.8	<b>11</b> Th	06:21 0.6 11:34 5.5 18:41 0.2	<b>19</b> F	00:27 0.6 05:48 5.7 13:17 0.0 18:37 5.1	<b>27</b> Sa	00:28 5.3 07:24 0.9 12:50 4.3 19:21 0.6
<b>4</b> Th	04:34 6.4 12:39 0.3 17:37 5.1	<b>12</b> F	00:12 5.9 07:23 0.3 12:36 5.4 19:36 0.1	<b>20</b> Sa	01:11 0.8 06:35 5.5 14:01 0.2 19:28 5.0	<b>28</b> Su	01:14 5.4 08:19 0.6 13:41 4.3 20:12 0.5
<b>5</b> F	00:30 0.8 05:14 6.4 13:25 0.3 18:24 5.1	<b>13</b> Sa	01:08 6.1 08:21 0.1 13:33 5.5 20:29 0.1	<b>21</b> Su	01:55 1.0 07:23 5.3 14:43 0.3 20:19 5.0	<b>29</b> M	01:56 5.6 09:10 0.3 14:28 4.4 21:01 0.5
<b>6</b> Sa	01:20 0.8 06:02 6.3 14:13 0.3 19:18 5.2	<b>14</b> Su	01:59 6.3 09:17 -0.1 14:27 5.5 21:20 0.1	<b>22</b> M	02:42 1.1 08:14 5.1 15:26 0.4 21:09 5.0	<b>30</b> Tu	02:34 5.7 10:00 0.1 15:11 4.5 21:50 0.4
<b>7</b> Su	02:13 0.8 06:59 6.1 15:02 0.3 20:16 5.3	<b>15</b> M	02:47 6.3 10:09 -0.2 15:17 5.5 22:10 0.1	<b>23</b> Tu	03:32 1.2 09:06 4.9 16:09 0.5 21:59 5.0		
<b>8</b> M	03:12 0.8 08:05 5.9 15:54 0.3 21:16 5.5	<b>16</b> Tu ●	03:34 6.2 10:59 -0.3 16:07 5.4 22:57 0.2	<b>24</b> W ●	04:28 1.2 10:01 4.7 16:54 0.6 22:49 5.1		

Heights are referred to mean low water during lowest river stages which is the chart datum of soundings.

**ADD ONE HOUR FOR DST**  
**Albany, N.Y.—July 2015—Eastern Standard Time**  
**Times and Heights of High and Low Waters**

<b>1</b> W	03:09 5.8 10:47 -0.1 15:53 4.6 22:39 0.3	<b>9</b> Th	05:00 0.1 10:13 5.1 17:17 -0.3 22:52 5.4	<b>17</b> F	04:43 5.4 12:06 -0.5 17:22 4.8	<b>25</b> Sa	05:48 0.8 11:08 3.9 17:34 0.4 23:34 4.8
<b>2</b> Th O	03:44 5.9 11:33 -0.2 16:35 4.6 23:27 0.2	<b>10</b> F	06:03 0.0 11:16 4.9 18:14 -0.3 23:51 5.5	<b>18</b> Sa	00:02 0.2 05:25 5.2 12:47 -0.4 18:09 4.7	<b>26</b> Su	06:50 0.6 12:10 3.8 18:35 0.4
<b>3</b> F	04:22 5.9 12:18 -0.3 17:19 4.7	<b>11</b> Sa	07:04 -0.1 12:17 4.9 19:10 -0.3	<b>19</b> Su	00:44 0.3 06:06 5.1 13:26 -0.2 18:55 4.7	<b>27</b> M	00:26 4.9 07:48 0.4 13:06 3.8 19:35 0.3
<b>4</b> Sa	00:17 0.1 05:07 5.9 13:04 -0.4 18:08 4.9	<b>12</b> Su	00:48 5.6 08:02 -0.3 13:15 4.9 20:05 -0.3	<b>20</b> M	01:25 0.5 06:48 4.9 14:03 -0.1 19:41 4.7	<b>28</b> Tu	01:15 5.1 08:42 0.1 13:57 4.0 20:33 0.2
<b>5</b> Su	01:08 0.1 05:59 5.8 13:51 -0.4 19:01 5.0	<b>13</b> M	01:41 5.7 08:57 -0.5 14:09 4.9 20:58 -0.3	<b>21</b> Tu	02:08 0.6 07:31 4.7 14:39 0.0 20:26 4.7	<b>29</b> W	02:01 5.3 09:33 -0.2 14:44 4.2 21:27 0.0
<b>6</b> M	02:02 0.1 06:58 5.6 14:39 -0.4 19:57 5.1	<b>14</b> Tu	02:30 5.7 09:49 -0.6 15:00 5.0 21:48 -0.3	<b>22</b> W	02:54 0.7 08:16 4.5 15:15 0.1 21:10 4.7	<b>30</b> Th	02:44 5.4 10:22 -0.4 15:28 4.4 22:20 -0.2
<b>7</b> Tu	02:59 0.1 08:03 5.5 15:30 -0.4 20:55 5.2	<b>15</b> W	03:17 5.7 10:37 -0.7 15:48 5.0 22:35 -0.2	<b>23</b> Th	03:46 0.8 09:07 4.2 15:53 0.2 21:55 4.7	<b>31</b> F O	03:27 5.5 11:09 -0.6 16:12 4.5 23:11 -0.3
<b>8</b> W ●	03:59 0.1 09:09 5.3 16:22 -0.4 21:53 5.3	<b>16</b> Th ●	04:01 5.6 11:23 -0.6 16:36 4.9 23:20 0.0	<b>24</b> F ●	04:46 0.8 10:06 4.0 16:38 0.3 22:43 4.7		

Time Meridian 75° W. 0000 is midnight. 1200 is noon.

**ADD ONE HOUR FOR DST**  
**Albany, N.Y.—August 2015—Eastern Standard Time**  
**Times and Heights of High and Low Waters**

<b>1</b> Sa	04:12 5.6 11:54 -0.8 16:58 4.7	<b>9</b> Su	06:43 -0.3 11:59 4.6 18:46 -0.4	<b>17</b> M	00:19 0.1 05:40 4.9 12:50 -0.4 18:19 4.7	<b>25</b> Tu	07:16 0.3 12:30 3.8 19:05 0.3
<b>2</b> Su	00:02 -0.4 05:00 5.6 12:40 -0.8 17:46 4.8	<b>10</b> M	00:27 5.2 07:41 -0.5 12:57 4.6 19:42 -0.4	<b>18</b> Tu	00:58 0.2 06:17 4.7 13:22 -0.3 18:58 4.7	<b>26</b> W	00:34 4.9 08:12 0.1 13:26 4.0 20:08 0.1
<b>3</b> M	00:53 -0.4 05:54 5.5 13:26 -0.9 18:38 5.0	<b>11</b> Tu	01:22 5.2 08:35 -0.6 13:51 4.7 20:35 -0.4	<b>19</b> W	01:39 0.3 06:49 4.5 13:52 -0.1 19:32 4.7	<b>27</b> Th	01:31 5.1 09:05 -0.2 14:16 4.3 21:06 -0.1
<b>4</b> Tu	01:47 -0.4 06:52 5.3 14:14 -0.8 19:34 5.1	<b>12</b> W	02:13 5.3 09:26 -0.8 14:41 4.8 21:26 -0.4	<b>20</b> Th	02:22 0.4 07:16 4.3 14:20 0.0 19:59 4.7	<b>28</b> F	02:22 5.3 09:54 -0.5 15:03 4.6 22:01 -0.3
<b>5</b> W	02:43 -0.4 07:53 5.1 15:04 -0.7 20:32 5.1	<b>13</b> Th	02:59 5.3 10:12 -0.8 15:29 4.8 22:13 -0.3	<b>21</b> F	03:11 0.5 07:51 4.1 14:53 0.1 20:22 4.8	<b>29</b> Sa O	03:10 5.4 10:42 -0.7 15:48 4.8 22:54 -0.5
<b>6</b> Th	03:41 -0.3 08:55 4.9 15:56 -0.6 21:30 5.2	<b>14</b> F ●	03:42 5.3 10:56 -0.8 16:14 4.8 22:57 -0.2	<b>22</b> Sa ●	04:09 0.6 08:43 3.9 15:37 0.2 21:05 4.8	<b>30</b> Su	03:58 5.5 11:28 -0.8 16:34 5.0 23:45 -0.6
<b>7</b> F ●	04:42 -0.3 09:57 4.8 16:51 -0.5 22:29 5.2	<b>15</b> Sa	04:23 5.2 11:36 -0.7 16:57 4.8 23:39 -0.1	<b>23</b> Su	05:12 0.6 10:10 3.8 16:39 0.3 22:04 4.8	<b>31</b> M	04:48 5.5 12:14 -0.9 17:22 5.1
<b>8</b> Sa	05:43 -0.3 10:58 4.6 17:48 -0.4 23:29 5.2	<b>16</b> Su	05:02 5.0 12:14 -0.6 17:39 4.7	<b>24</b> M	06:15 0.5 11:26 3.7 17:54 0.4 23:24 4.8		

Heights are referred to mean low water during lowest river stages which is the chart datum of soundings.

**ADD ONE HOUR FOR DST**  
**Albany, N.Y.—September 2015—Eastern Standard Time**  
**Times and Heights of High and Low Waters**

<b>1</b> Tu	00:37 -0.7 05:41 5.4 13:00 -0.9 18:13 5.2	<b>9</b> W	01:01 5.1 08:09 -0.5 13:31 4.8 20:12 -0.2	<b>17</b> Th	01:16 0.3 06:17 4.6 13:12 0.0 18:25 5.1	<b>25</b> F	01:04 5.2 08:34 -0.1 13:48 4.7 20:46 0.0
<b>2</b> W	01:30 -0.6 06:38 5.2 13:48 -0.8 19:08 5.2	<b>10</b> Th	01:52 5.2 08:58 -0.6 14:20 5.0 21:02 -0.2	<b>18</b> F	01:58 0.4 06:40 4.4 13:41 0.1 18:50 5.2	<b>26</b> Sa	02:01 5.4 09:25 -0.3 14:37 5.1 21:42 -0.3
<b>3</b> Th	02:26 -0.5 07:38 5.0 14:38 -0.7 20:06 5.2	<b>11</b> F	02:38 5.2 09:43 -0.6 15:06 5.1 21:49 -0.2	<b>19</b> Sa	02:46 0.5 07:18 4.3 14:17 0.2 19:31 5.2	<b>27</b> Su	02:52 5.5 10:14 -0.5 15:23 5.3 22:36 -0.5
<b>4</b> F	03:23 -0.4 08:38 4.9 15:30 -0.5 21:05 5.2	<b>12</b> Sa	03:20 5.2 10:25 -0.6 15:49 5.1 22:33 -0.2	<b>20</b> Su	03:40 0.6 08:08 4.2 15:04 0.3 20:20 5.2	<b>28</b> M O	03:42 5.6 11:01 -0.6 16:10 5.5 23:28 -0.6
<b>5</b> Sa ☉	04:21 -0.3 09:39 4.7 16:26 -0.3 22:05 5.1	<b>13</b> Su ●	04:00 5.1 11:04 -0.5 16:30 5.1 23:15 -0.1	<b>21</b> M ☾	04:40 0.6 09:16 4.1 16:08 0.5 21:17 5.1	<b>29</b> Tu	04:32 5.5 11:48 -0.7 16:57 5.6
<b>6</b> Su	05:21 -0.2 10:39 4.6 17:23 -0.2 23:06 5.0	<b>14</b> M	04:39 5.0 11:40 -0.4 17:08 5.1 23:56 0.0	<b>22</b> Tu	05:43 0.6 10:46 4.0 17:27 0.5 22:30 5.0	<b>30</b> W	00:20 -0.6 05:25 5.4 12:34 -0.6 17:48 5.6
<b>7</b> M	06:19 -0.3 11:39 4.6 18:21 -0.1	<b>15</b> Tu	05:15 4.9 12:13 -0.2 17:42 5.0	<b>23</b> W	06:43 0.4 11:55 4.2 18:41 0.5 23:57 5.0		
<b>8</b> Tu	00:05 5.0 07:16 -0.4 12:36 4.7 19:18 -0.1	<b>16</b> W	00:36 0.1 05:49 4.7 12:44 -0.1 18:10 5.0	<b>24</b> Th	07:41 0.2 12:55 4.4 19:47 0.3		

Time Meridian 75° W. 0000 is midnight. 1200 is noon.



**ADD ONE HOUR FOR DST**  
**Albany, N.Y.—October 2015—Eastern Standard Time**  
**Times and Heights of High and Low Waters**

<b>1</b> Th	01:13 -0.5 06:21 5.2 13:22 -0.5 18:42 5.5	<b>9</b> F	01:25 5.2 08:25 -0.2 13:55 5.3 20:36 0.1	<b>17</b> Sa	01:40 0.4 06:20 4.6 13:18 0.3 18:17 5.6	<b>25</b> Su	01:40 5.5 08:55 -0.2 14:12 5.5 21:24 -0.2
<b>2</b> F	02:07 -0.3 07:19 5.1 14:12 -0.3 19:40 5.4	<b>10</b> Sa	02:12 5.2 09:10 -0.3 14:41 5.4 21:24 0.1	<b>18</b> Su	02:26 0.5 06:59 4.5 13:59 0.4 19:02 5.6	<b>26</b> M	02:33 5.6 09:45 -0.4 15:00 5.7 22:19 -0.4
<b>3</b> Sa	03:02 -0.2 08:19 4.9 15:04 -0.1 20:40 5.3	<b>11</b> Su	02:56 5.2 09:51 -0.2 15:22 5.5 22:09 0.1	<b>19</b> M	03:17 0.6 07:51 4.5 14:51 0.5 19:53 5.5	<b>27</b> Tu O	03:24 5.6 10:34 -0.4 15:47 5.9 23:11 -0.5
<b>4</b> Su O	03:58 -0.1 09:18 4.8 15:59 0.1 21:40 5.2	<b>12</b> M	03:36 5.2 10:29 -0.2 16:01 5.5 22:52 0.1	<b>20</b> Tu O	04:13 0.6 09:01 4.4 15:57 0.6 20:53 5.4	<b>28</b> W	04:15 5.5 11:22 -0.4 16:34 5.9
<b>5</b> M	04:55 0.0 10:17 4.8 16:57 0.2 22:39 5.1	<b>13</b> Tu ●	04:15 5.0 11:05 -0.1 16:35 5.5 23:34 0.1	<b>21</b> W	05:12 0.6 10:17 4.5 17:11 0.7 22:07 5.3	<b>29</b> Th	00:03 -0.4 05:07 5.4 12:09 -0.3 17:24 5.8
<b>6</b> Tu	05:52 0.0 11:16 4.8 17:55 0.3 23:38 5.1	<b>14</b> W	04:51 4.9 11:39 0.1 17:05 5.4	<b>22</b> Th	06:11 0.4 11:25 4.6 18:22 0.6 23:32 5.2	<b>30</b> F	00:54 -0.3 06:02 5.2 12:57 -0.1 18:17 5.7
<b>7</b> W	06:46 0.0 12:12 4.9 18:51 0.3	<b>15</b> Th	00:15 0.2 05:25 4.7 12:11 0.2 17:24 5.5	<b>23</b> F	07:09 0.2 12:26 4.9 19:27 0.4	<b>31</b> Sa	01:46 -0.2 06:59 5.1 13:46 0.0 19:14 5.5
<b>8</b> Th	00:34 5.1 07:38 -0.1 13:06 5.1 19:46 0.2	<b>16</b> F	00:57 0.3 05:54 4.6 12:43 0.2 17:41 5.6	<b>24</b> Sa	00:41 5.3 08:03 0.0 13:22 5.2 20:27 0.1		

Heights are referred to mean low water during lowest river stages which is the chart datum of soundings.

## Albany, N.Y.—November 2015—Eastern Standard Time Times and Heights of High and Low Waters

<b>1</b> Su	02:39 0.0 07:57 5.0 14:38 0.2 20:13 5.3	<b>9</b> M	02:28 5.0 09:14 0.1 14:52 5.6 21:44 0.2	<b>17</b> Tu	02:57 0.3 07:46 4.6 14:47 0.5 19:37 5.6	<b>25</b> W O	03:07 5.4 10:09 -0.4 15:27 5.9 22:54 -0.5
<b>2</b> M	03:32 0.1 08:55 4.9 15:31 0.4 21:11 5.2	<b>10</b> Tu	03:10 5.0 09:54 0.1 15:30 5.6 22:29 0.1	<b>18</b> W	03:49 0.3 08:50 4.7 15:50 0.6 20:41 5.5	<b>26</b> Th	03:58 5.4 10:58 -0.3 16:15 5.9 23:44 -0.4
<b>3</b> Tu ●	04:26 0.2 09:52 4.9 16:27 0.6 22:09 5.1	<b>11</b> W ●	03:50 4.9 10:32 0.1 16:03 5.6 23:13 0.1	<b>19</b> Th ●	04:44 0.3 09:56 4.8 16:57 0.6 21:58 5.3	<b>27</b> F	04:49 5.2 11:46 -0.2 17:03 5.7
<b>4</b> W	05:19 0.2 10:48 4.9 17:24 0.6 23:06 5.0	<b>12</b> Th	04:28 4.8 11:09 0.2 16:30 5.6 23:55 0.2	<b>20</b> F	05:41 0.2 10:59 5.0 18:04 0.5 23:14 5.3	<b>28</b> Sa	00:34 -0.3 05:42 5.1 12:33 -0.1 17:54 5.6
<b>5</b> Th	06:11 0.2 11:43 5.0 18:21 0.6	<b>13</b> F	05:03 4.7 11:46 0.3 16:49 5.7	<b>21</b> Sa	06:38 0.1 12:00 5.2 19:08 0.3	<b>29</b> Su	01:24 -0.2 06:36 5.0 13:21 0.1 18:48 5.4
<b>6</b> F	00:01 5.0 07:00 0.2 12:36 5.2 19:15 0.6	<b>14</b> Sa	00:38 0.2 05:36 4.6 12:24 0.3 17:15 5.7	<b>22</b> Su	00:21 5.3 07:33 -0.1 12:57 5.4 20:09 0.0	<b>30</b> M	02:13 -0.1 07:32 4.9 14:10 0.3 19:43 5.2
<b>7</b> Sa	00:54 5.0 07:48 0.1 13:26 5.3 20:08 0.4	<b>15</b> Su	01:22 0.3 06:08 4.6 13:05 0.4 17:54 5.8	<b>23</b> M	01:21 5.3 08:27 -0.2 13:50 5.7 21:06 -0.2		
<b>8</b> Su	01:43 5.0 08:32 0.1 14:11 5.5 20:57 0.3	<b>16</b> M	02:08 0.3 06:51 4.6 13:52 0.4 18:42 5.7	<b>24</b> Tu	02:15 5.4 09:19 -0.3 14:39 5.9 22:01 -0.4		

Time Meridian 75° W. 0000 is midnight. 1200 is noon.

## Albany, N.Y.—December 2015—Eastern Standard Time Times and Heights of High and Low Waters

<b>1</b> Tu	03:02 0.1 08:28 4.8 15:01 0.5 20:39 5.1	<b>9</b> W	02:43 4.6 09:18 0.2 14:57 5.5 22:05 0.1	<b>17</b> Th	03:25 0.0 08:34 4.9 15:40 0.3 20:40 5.4	<b>25</b> F O	03:41 5.2 10:36 -0.4 15:57 5.7 23:24 -0.5
<b>2</b> W	03:51 0.2 09:22 4.8 15:54 0.7 21:34 4.9	<b>10</b> Th	03:24 4.6 10:01 0.2 15:31 5.5 22:50 0.0	<b>18</b> F O	04:17 -0.1 09:34 5.0 16:43 0.3 21:51 5.2	<b>26</b> Sa	04:30 5.1 11:24 -0.3 16:45 5.5
<b>3</b> Th O	04:40 0.3 10:16 4.9 16:49 0.8 22:29 4.8	<b>11</b> F ●	04:03 4.6 10:43 0.2 16:00 5.6 23:34 0.0	<b>19</b> Sa	05:13 -0.1 10:35 5.1 17:47 0.2 22:59 5.1	<b>27</b> Su	00:12 -0.4 05:21 5.0 12:10 -0.1 17:33 5.4
<b>4</b> F	05:29 0.3 11:09 4.9 17:45 0.8 23:24 4.7	<b>12</b> Sa	04:41 4.5 11:26 0.1 16:26 5.6	<b>20</b> Su	06:09 -0.1 11:36 5.2 18:50 0.1	<b>28</b> M	00:58 -0.3 06:12 4.9 12:56 0.1 18:22 5.2
<b>5</b> Sa	06:17 0.3 12:01 5.0 18:42 0.7	<b>13</b> Su	00:18 0.0 05:17 4.5 12:09 0.1 16:58 5.7	<b>21</b> M	00:03 5.1 07:06 -0.2 12:34 5.4 19:50 -0.1	<b>29</b> Tu	01:43 -0.1 07:04 4.8 13:42 0.3 19:12 5.0
<b>6</b> Su	00:19 4.7 07:04 0.3 12:50 5.1 19:36 0.6	<b>14</b> M	01:02 0.0 05:56 4.6 12:56 0.1 17:41 5.7	<b>22</b> Tu	01:03 5.1 08:01 -0.3 13:30 5.6 20:48 -0.3	<b>30</b> W	02:28 0.0 07:55 4.7 14:29 0.5 20:04 4.9
<b>7</b> M	01:10 4.7 07:50 0.3 13:37 5.3 20:28 0.4	<b>15</b> Tu	01:48 0.0 06:42 4.7 13:45 0.2 18:32 5.6	<b>23</b> W	01:58 5.2 08:55 -0.4 14:21 5.7 21:43 -0.5	<b>31</b> Th	03:11 0.2 08:46 4.7 15:18 0.6 20:57 4.7
<b>8</b> Tu	01:58 4.7 08:35 0.2 14:19 5.4 21:17 0.2	<b>16</b> W	02:35 0.0 07:35 4.8 14:40 0.2 19:31 5.5	<b>24</b> Th	02:50 5.2 09:46 -0.4 15:10 5.7 22:35 -0.6		

Heights are referred to mean low water during lowest river stages which is the chart datum of soundings.

## Changes of Meters into Feet and Inches

METERS	FEET	METERS	FEET	METERS	FEET	METERS	FEET
3.0	09 10	7.5	24 07	12.0	39 04	16.5	54 02
3.1	10 02	7.6	24 11	12.1	39 08	16.6	54 06
3.2	10 06	7.7	25 03	12.2	40 00	16.7	54 09
3.3	10 10	7.8	25 07	12.3	40 04	16.8	55 01
3.4	11 02	7.9	25 11	12.4	40 08	16.9	55 05
3.5	11 06			12.5	41 00		
3.6	11 10	8.0	26 03	12.6	41 04	17.0	55 09
3.7	12 02	8.1	26 07	12.7	41 08	17.1	56 01
3.8	12 06	8.2	26 11	12.8	42 00	17.2	56 05
3.9	12 09	8.3	27 03	12.9	42 04	17.3	56 09
		8.4	27 06			17.4	57 01
4.0	13 01	8.5	27 10	13.0	42 08	17.5	57 05
4.1	13 05	8.6	28 02	13.1	43 00	17.6	57 09
4.2	13 09	8.7	28 06	13.2	43 04	17.7	58 01
4.3	14 01	8.8	28 10	13.3	43 08	17.8	58 05
4.4	14 05	8.9	29 02	13.4	44 00	17.9	58 09
4.5	14 09			13.5	44 03		
4.6	15 01	9.0	29 06	13.6	44 07	18.0	59 01
4.7	15 05	9.1	29 10	13.7	44 11	18.1	59 05
4.8	15 09	9.2	30 02	13.8	45 03	18.2	59 09
4.9	16 01	9.3	30 06	13.9	45 07	18.3	60 00
		9.4	30 10			18.4	60 04
5.0	16 05	9.5	31 02	14.0	45 11	18.5	60 08
5.1	16 09	9.6	31 06	14.1	46 03	18.6	61 00
5.2	17 01	9.7	31 10	14.2	46 07	18.7	61 04
5.3	17 04	9.8	32 02	14.3	46 11	18.8	61 08
5.4	17 08	9.9	32 06	14.4	47 03	18.9	62 00
5.5	18 00			14.5	47 07		
5.6	18 04	10.0	32 10	14.6	47 11	19.0	62 04
5.7	18 08	10.1	33 02	14.7	48 03	19.1	62 08
5.8	19 00	10.2	33 06	14.8	48 07	19.2	63 00
5.9	19 04	10.3	33 09	14.9	48 11	19.3	63 04
		10.4	34 01			19.4	63 08
6.0	19 08	10.5	34 05	15.0	49 03	19.5	64 00
6.1	20 00	10.6	34 09	15.1	49 06	19.6	64 04
6.2	20 04	10.7	35 01	15.2	49 10	19.7	64 08
6.3	20 08	10.8	35 05	15.3	50 02	19.8	65 00
6.4	21 00	10.9	35 09	15.4	50 06	19.9	65 03
6.5	21 04			15.5	50 10		
6.6	21 08	11.0	36 01	15.6	51 02	20.0	65 07
6.7	22 00	11.1	36 05	15.7	51 06	20.1	65 11
6.8	22 04	11.2	36 09	15.8	51 10	20.2	66 03
6.9	22 08	11.3	37 01	15.9	52 02	20.3	66 07
		11.4	37 05			20.4	66 11
7.0	22 11	11.5	37 09	16.0	52 06	20.5	67 03
7.1	23 03	11.6	38 01	16.1	52 10	20.6	67 07
7.2	23 07	11.7	38 05	16.2	53 02	20.7	67 11
7.3	23 11	11.8	38 09	16.3	53 06	20.8	68 03
7.4	24 03	11.9	39 00	16.4	53 10	20.9	68 07

## Conversion Table - 1 m = 3.281 feet

Meters to Feet and Inches (Approximate Values)

<b>m</b>	<b>Ft In</b>	<b>m</b>	<b>Ft In</b>	<b>m</b>	<b>Ft In</b>
<b>1</b>	3 03	<b>150</b>	492 01	<b>300</b>	984 03
<b>5</b>	16 05	<b>155</b>	508 06	<b>305</b>	1000 08
<b>10</b>	32 10	<b>160</b>	524 11	<b>310</b>	1017 01
<b>15</b>	49 03	<b>165</b>	541 04	<b>315</b>	1033 06
<b>20</b>	65 07	<b>170</b>	557 09	<b>320</b>	1049 10
<b>25</b>	82 00	<b>175</b>	574 02	<b>325</b>	1066 03
<b>30</b>	98 05	<b>180</b>	590 07	<b>330</b>	1082 08
<b>35</b>	114 10	<b>185</b>	606 11	<b>335</b>	1099 01
<b>40</b>	131 03	<b>190</b>	623 04	<b>340</b>	1115 06
<b>45</b>	147 08	<b>195</b>	639 09	<b>345</b>	1131 11
<b>50</b>	164 00	<b>200</b>	656 02	<b>350</b>	1148 03
<b>55</b>	180 05	<b>205</b>	672 07	<b>355</b>	1164 08
<b>60</b>	196 10	<b>210</b>	689 00	<b>360</b>	1181 01
<b>65</b>	213 03	<b>215</b>	705 05	<b>365</b>	1197 06
<b>70</b>	229 08	<b>220</b>	721 09	<b>370</b>	1213 11
<b>75</b>	246 00	<b>225</b>	738 02	<b>375</b>	1230 04
<b>80</b>	262 06	<b>230</b>	754 07	<b>380</b>	1246 09
<b>85</b>	278 10	<b>235</b>	771 00	<b>385</b>	1263 01
<b>90</b>	295 03	<b>240</b>	787 05	<b>390</b>	1279 06
<b>95</b>	311 08	<b>245</b>	803 10	<b>395</b>	1295 11
<b>100</b>	328 01	<b>250</b>	820 02	<b>400</b>	1312 04
<b>105</b>	344 06	<b>255</b>	836 07	<b>405</b>	1328 09
<b>110</b>	360 11	<b>260</b>	853 00	<b>410</b>	1345 02
<b>115</b>	377 04	<b>265</b>	869 05	<b>415</b>	1361 07
<b>120</b>	393 08	<b>270</b>	885 10	<b>420</b>	1377 11
<b>125</b>	410 01	<b>275</b>	902 03	<b>425</b>	1394 04
<b>130</b>	426 06	<b>280</b>	918 08	<b>430</b>	1410 09
<b>135</b>	442 11	<b>285</b>	935 00	<b>440</b>	1443 07
<b>140</b>	459 04	<b>290</b>	951 05	<b>450</b>	1476 04
<b>145</b>	475 09	<b>295</b>	967 10		

# 2015

## January

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

## February

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

## March

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## April

Su	Mo	Tu	Mo	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

## May

Su	Mo	Tu	Mo	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## June

Su	Mo	Tu	Mo	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

## July

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	19	21	22	23	24	25
26	26	28	29	30	31	

## August

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	23	24	25	26	27	29
30	31					

## September

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

## October

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## November

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

## December

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

# 2016

## January

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## February

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

## March

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## April

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

## May

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## June

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

## July

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## August

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## September

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

## October

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

## November

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

## December

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

# Sunrise and Sunset Predictions for 2015

## Add One Hour For Daylight Savings Time

JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
Day	Rise	Set	Day	Rise	Set	Day	Rise	Set	Day	Rise	Set	Day	Rise	Set	Day	Rise	Set
01	0720	1639	01	0706	1713	01	0630	1747	01	0540	1820	01	0455	1852	01	0427	1921
02	0720	1640	02	0705	1714	02	0628	1748	02	0538	1821	02	0453	1853	02	0426	1921
03	0720	1641	03	0704	1715	03	0627	1749	03	0536	1822	03	0452	1854	03	0426	1922
04	0720	1641	04	0703	1717	04	0625	1750	04	0535	1823	04	0451	1855	04	0426	1923
05	0720	1642	05	0702	1718	05	0624	1751	05	0533	1824	05	0450	1856	05	0425	1923
06	0720	1643	06	0701	1719	06	0622	1752	06	0532	1825	06	0449	1857	06	0425	1924
07	0720	1644	07	0700	1720	07	0621	1753	07	0530	1826	07	0447	1858	07	0425	1925
08	0720	1645	08	0659	1722	08	0619	1755	08	0528	1827	08	0446	1859	08	0425	1925
09	0719	1646	09	0657	1723	09	0617	1756	09	0527	1829	09	0445	1900	09	0424	1926
10	0719	1647	10	0656	1724	10	0616	1757	10	0525	1830	10	0444	1901	10	0424	1926
11	0719	1648	11	0655	1725	11	0614	1758	11	0524	1831	11	0443	1902	11	0424	1927
12	0719	1649	12	0654	1727	12	0613	1759	12	0522	1832	12	0442	1903	12	0424	1927
13	0718	1651	13	0652	1728	13	0611	1800	13	0520	1833	13	0441	1904	13	0424	1928
14	0718	1652	14	0651	1729	14	0609	1801	14	0519	1834	14	0440	1905	14	0424	1928
15	0718	1653	15	0650	1730	15	0608	1802	15	0517	1835	15	0439	1906	15	0424	1929
16	0717	1654	16	0649	1731	16	0606	1803	16	0516	1836	16	0438	1907	16	0424	1929
17	0717	1655	17	0647	1733	17	0604	1804	17	0514	1837	17	0437	1908	17	0424	1929
18	0716	1656	18	0646	1734	18	0603	1805	18	0513	1838	18	0436	1909	18	0424	1930
19	0716	1657	19	0645	1735	19	0601	1806	19	0511	1839	19	0435	1910	19	0424	1930
20	0715	1658	20	0643	1736	20	0600	1808	20	0510	1840	20	0434	1911	20	0424	1930
21	0715	1700	21	0642	1737	21	0558	1809	21	0508	1841	21	0434	1911	21	0425	1930
22	0714	1701	22	0640	1739	22	0556	1810	22	0507	1842	22	0433	1912	22	0425	1931
23	0713	1702	23	0639	1740	23	0555	1811	23	0506	1843	23	0432	1913	23	0425	1931
24	0713	1703	24	0637	1741	24	0553	1812	24	0504	1844	24	0431	1914	24	0425	1931
25	0712	1704	25	0636	1742	25	0551	1813	25	0503	1845	25	0431	1915	25	0426	1931
26	0711	1706	26	0635	1743	26	0550	1814	26	0501	1846	26	0430	1916	26	0426	1931
27	0710	1707	27	0633	1744	27	0548	1815	27	0500	1847	27	0429	1917	27	0426	1931
28	0710	1708	28	0632	1746	28	0546	1816	28	0459	1848	28	0429	1917	28	0427	1931
29	0709	1709				29	0545	1817	29	0457	1850	29	0428	1918	29	0427	1931
30	0708	1711				30	0543	1818	30	0456	1851	30	0428	1919	30	0428	1931
31	0707	1712				31	0541	1819				31	0427	1920			



# Sunrise and Sunset Predictions for 2015

## Add One Hour For Daylight Savings Time

JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
Day	Rise	Set	Day	Rise	Set	Day	Rise	Set	Day	Rise	Set	Day	Rise	Set	Day	Rise	Set
01	0428	1931	01	0452	1911	01	0522	1828	01	0552	1738	01	0626	1652	01	0700	1629
02	0429	1931	02	0453	1910	02	0523	1827	02	0553	1737	02	0627	1651	02	0701	1629
03	0429	1930	03	0454	1909	03	0524	1825	03	0554	1735	03	0628	1650	03	0702	1629
04	0430	1930	04	0455	1908	04	0525	1823	04	0555	1733	04	0629	1649	04	0703	1628
05	0430	1930	05	0456	1907	05	0526	1822	05	0556	1732	05	0630	1648	05	0704	1628
06	0431	1930	06	0457	1906	06	0527	1820	06	0557	1730	06	0632	1647	06	0705	1628
07	0431	1929	07	0458	1904	07	0528	1818	07	0558	1728	07	0633	1645	07	0706	1628
08	0432	1929	08	0459	1903	08	0529	1817	08	0559	1727	08	0634	1644	08	0707	1628
09	0433	1929	09	0500	1902	09	0530	1815	09	0600	1725	09	0635	1643	09	0708	1628
10	0433	1928	10	0501	1901	10	0531	1813	10	0601	1724	10	0636	1642	10	0709	1628
11	0434	1928	11	0502	1859	11	0532	1812	11	0602	1722	11	0638	1641	11	0709	1628
12	0435	1927	12	0503	1858	12	0533	1810	12	0603	1720	12	0639	1641	12	0710	1628
13	0436	1927	13	0504	1857	13	0534	1808	13	0604	1719	13	0640	1640	13	0711	1629
14	0436	1926	14	0505	1855	14	0535	1807	14	0606	1717	14	0641	1639	14	0712	1629
15	0437	1926	15	0506	1854	15	0536	1805	15	0607	1716	15	0642	1638	15	0712	1629
16	0438	1925	16	0507	1853	16	0537	1803	16	0608	1714	16	0643	1637	16	0713	1629
17	0439	1924	17	0508	1851	17	0538	1802	17	0609	1713	17	0645	1636	17	0714	1630
18	0440	1924	18	0509	1850	18	0539	1800	18	0610	1711	18	0646	1636	18	0714	1630
19	0440	1923	19	0510	1848	19	0540	1758	19	0611	1710	19	0647	1635	19	0715	1630
20	0441	1922	20	0511	1847	20	0541	1757	20	0612	1708	20	0648	1634	20	0716	1631
21	0442	1922	21	0512	1845	21	0542	1755	21	0613	1707	21	0649	1634	21	0716	1631
22	0443	1921	22	0513	1844	22	0543	1753	22	0614	1705	22	0650	1633	22	0717	1632
23	0444	1920	23	0514	1842	23	0544	1752	23	0615	1704	23	0651	1632	23	0717	1632
24	0445	1919	24	0515	1841	24	0545	1750	24	0617	1703	24	0653	1632	24	0718	1633
25	0446	1918	25	0516	1839	25	0546	1748	25	0618	1701	25	0654	1631	25	0718	1634
26	0447	1917	26	0517	1838	26	0547	1747	26	0619	1700	26	0655	1631	26	0718	1634
27	0447	1916	27	0518	1836	27	0548	1745	27	0620	1659	27	0656	1630	27	0719	1635
28	0448	1915	28	0519	1835	28	0549	1743	28	0621	1657	28	0657	1630	28	0719	1636
29	0449	1914	29	0519	1833	29	0550	1741	29	0622	1656	29	0658	1630	29	0719	1636
30	0450	1913	30	0520	1832	30	0551	1740	30	0623	1655	30	0659	1629	30	0719	1637
31	0451	1912	31	0521	1830				31	0625	1654				31	0720	1638

## **Communication Numbers**

### **Day & Night**

Phone : (718) 448 - 3900 (N.Y. / N.J. / Hell Gate)  
(718) 815 - 4316 (Hudson River)

Fax : 1 - 718 - 876 - 8055

E-Mail Addresses :

Dispatch or Operational : [Dispatch@sandyhookpilots.com](mailto:Dispatch@sandyhookpilots.com)

General Information : [Info@sandyhookpilots.com](mailto:Info@sandyhookpilots.com)

**For Arrival, 24 hour ETA & 12 hour updates.**

**Updated Arrival and Departure  
times greatly appreciated.**