SCALE 1:10,000
Nautical Miles
Yards

JERSEY CITY
Liberty State Park
Caven Point
Liberty Island
Ellis Island
GOVERNORS ISLAND
The Battery
Dimond Reef
Red Hook
Global Marine Terminal
Claremont Terminal (CSX)
Constable Hook
Bayonne
KILL VAN KULL
NEW BRIGHTON
St George
Tompkinsville
Stapleton
Clifton
Rosebank
Quarantine Station
Sandy Hook Pilot Base
Fort Wadsworth
Owls Head Park
Bay Ridge
Fort Hamilton
BROOKLYN
STATEN ISLAND
Atlantic Basin
ERIE BASIN
GOWANUS BAY

CLAREMONT TERMINAL CHANNEL
PIERHEAD CHANNEL
GRENDILL FLATS CHANNEL
JERSEY FLATS CHANNEL
ANCHORAGE CHANNEL
BUTTERMILK CHANNEL
GOWANUS FLATS CHANNEL
BAY RIDGE FLATS
RED HOOK CHANNEL
CONSTABLE HOOK REACH (see tabulation)
AMBROSE CHANNEL REACH D (see tabulation)
THE NARROWS

ANCHORAGE NO. 20A 110.155 (see note A)
ANCHORAGE NO. 20B 110.155 (see note A)
ANCHORAGE NO. 20C 110.155 (see note A)
ANCHORAGE NO. 20D 110.155 (see note A)
ANCHORAGE NO. 20E 110.155 (see note A)
ANCHORAGE NO. 20F 110.155 (see note A)
ANCHORAGE NO. 20G 110.155 (see note A)
ANCHORAGE NO. 20H 110.155 (see note A)
ANCHORAGE NO. 20I 110.155 (see note A)
ANCHORAGE NO. 21A 110.155 (see note A)
ANCHORAGE NO. 21B 110.155 (see note A)
ANCHORAGE NO. 21C 110.155 (see note A)
ANCHORAGE NO. 21D 110.155 (see note A)
ANCHORAGE NO. 24 110.155 (see note A)

SAFETY AND SECURITY ZONE 165.169 (see note A)
NEW YORK VESSEL TRAFFIC SERVICES AREA (see note C)
NO-DISCHARGE ZONE (see note Z)
Cable and Pipeline Area
Pipeline Area
Cable Area
Pipeline and Cable Area
RESTRICTED NAVAL AREA 334.85 (see note A)
SAFETY ZONE 165.172 (see note A)
SAFETY AND SECURITY ZONE 165.760 (see note A)

JOINS CHART 12335
CONTINUED ON CHART 12333
CONTINUED ON CHART 12402

KILL VAN KULL CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2015 AND SURVEYS TO MAR 2015							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
KILL VAN KULL (N. CONSTABLE HOOK REACH	51.6	52.1	52.2	51.9	3-15	2000-800	2.52	50
A. CONTROLLING DEPTHS ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM UPPER BAY. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION.								

LOWER BAY CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2015 AND SURVEYS TO JUN 2015							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
AMBROSE CHANNEL REACH D	50.6	54.6	54.7	53.5	5.6-15	2000	2.9	53
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

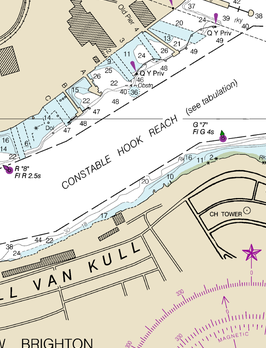
HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.372" northward and 1.493" eastward to agree with this chart.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

SOURCE			
A	1990-2013	NOS Surveys	full bottom coverage
B1	1990-1998	NOS Surveys	partial bottom coverage
B2	1970-1989	NOS Surveys	partial bottom coverage
B4	1900-1939	NOS Surveys	partial bottom coverage
B5	Pre-1900	NOS Surveys	partial bottom coverage



CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.
Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus:
⊙(Accurate location) o(Approximate location)

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area — Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.
Covered wells may be marked by lighted or unlighted buoys.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

NOTE C

The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) system in the New York Bay and surrounding areas. Vessel operating procedures and designated radiotelephone frequencies are published in 33 CFR 161, the U.S. Coast Pilot, and/or the VTS User's Manual. The entire area of the chart falls within the Vessel Traffic Services (VTS) system.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOAA WEATHER RADIO BROADCASTS

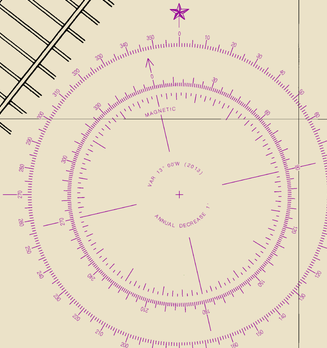
The NOAA Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

New York, NY	KWO-35	162.550 MHz

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 2 for important supplemental information.

VERRAZANO-NARROWS BRIDGE
SUSPENSION BRIDGE
VERT CL 198 FT (FOR MIDDLE 2000 FT)
VERT CL 183 FT AT PIERS
VERT CL 215 FT AT CENTER
NOTE:
A traveling maintenance platform when in operation reduces vertical clearances by 15 feet.



THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - EAST COAST
NEW YORK - NEW JERSEY

NEW YORK HARBOR

UPPER BAY AND NARROWS

ANCHORAGE CHART

Mercator Projection
Scale 1:10,000 at Lat. 40°39'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

For Symbols and Abbreviations see Chart No. 1

Additional information can be obtained at nauticalcharts.noaa.gov.

TIDAL INFORMATION

PLACE		Height referred to datum of soundings (MLLW)		
NAME	(LAT./LONG)	Mean Higher High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Fort Hamilton	(40°37'N/74°02'W)	5.2	4.9	0.2
Governors Island	(40°42'N/74°01'W)	4.9	4.6	0.2

Dashes (- - -) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.
(Sep 2013)

HEIGHTS
Heights in feet above Mean High Water.

AUTHORITIES
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, U.S. Coast Guard, and National Geospatial-Intelligence Agency.

PLANE COORDINATE GRID
(based on NAD 1927)
New York State Grid Long Island zone is indicated by dashed ticks at 5,000 foot intervals.

CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.
During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

ACKNOWLEDGEMENT
The National Ocean Service acknowledges the exceptional cooperation received from members of the United States Power Squadron, District 4, in providing essential information used for revising this chart.

NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 2. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 1st Coast Guard District in Boston, Massachusetts or at the Office of the District Engineer, Corps of Engineers in New York, New York.
Refer to charted regulation section numbers.

NOTE Z
NO-DISCHARGE ZONE, 40 CFR 140
The State of New York waters in the Hudson River from the Battery in Manhattan to the Federal Dam in Troy are designated a No-Discharge Zone (NDZ).
Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. All vessels with an installed marine sanitation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank. Regulations for the NDZ are contained in the U.S. Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/regulatory/vessel_sewage/.

SCALE 1:10,000
Nautical Miles
Yards

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at http://www.nauticalcharts.noaa.gov/mcd/Publications.htm

NOAA encourages users to submit inquiries, discrepancies or comments about this chart at http://www.nauticalcharts.noaa.gov/staff/contact.htm.

SOUNDINGS IN FEET

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

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If the line does not measure six inches (152 millimeters), this copy is not certified safe for navigation.

FATHOMS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102
METERS	0	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