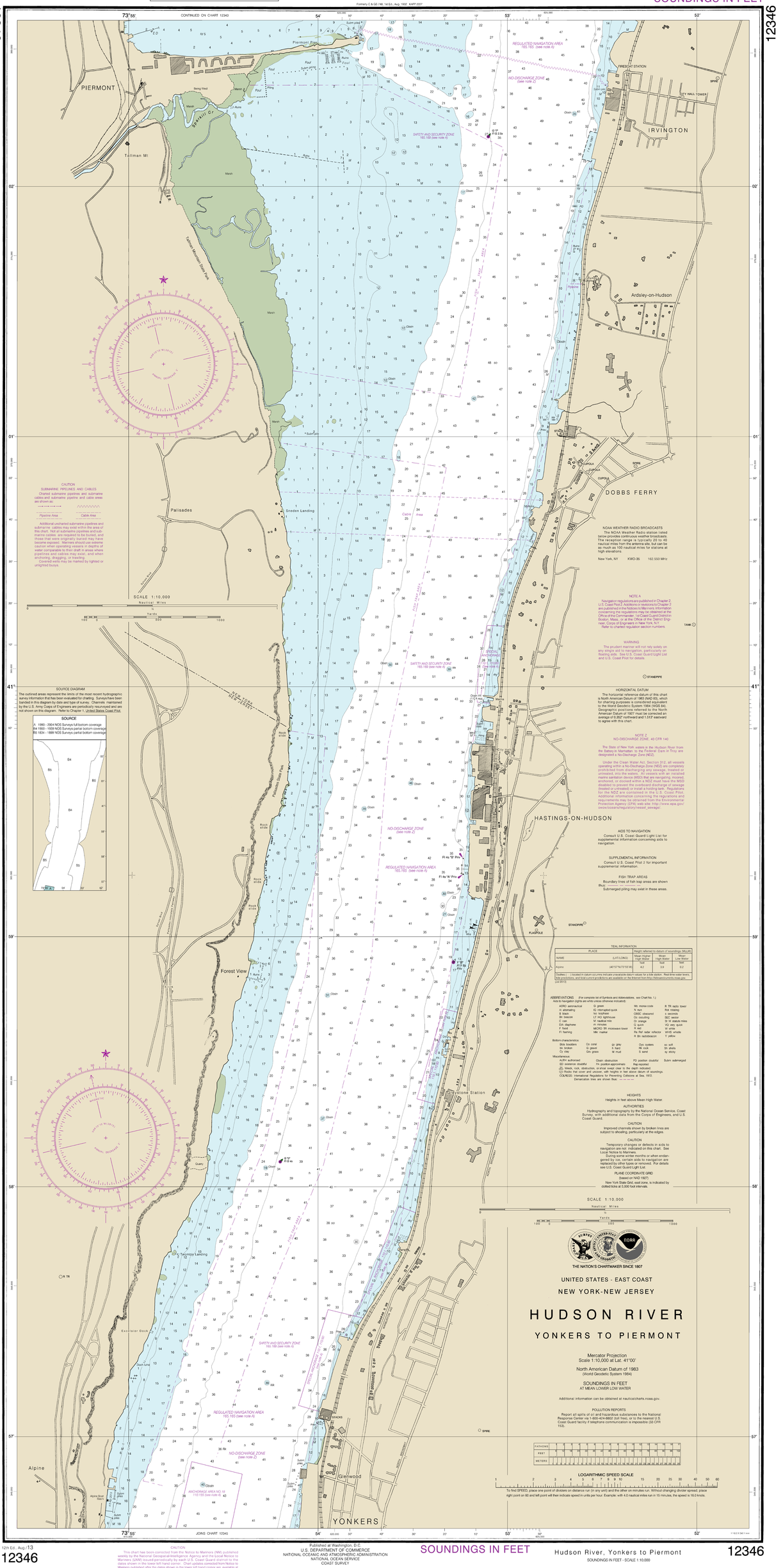
This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (NCS3), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

Formerly C & GS 748, 1st Ed., Aug. 1932 KWP 2007

SOUNDINGS IN FEET

12346



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 areas 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 these pipelines and cables may exist, and when anchoring, dragging, or trawling.
Covered wells may be marked by lighted or unlighted buoys.

SOURCE DIAGRAM
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been branded 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.

NOAA WEATHER RADIO BROADCASTS
The NOAA Weather Radio station listed below broadcasts continuous weather information. 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

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

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.

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 World Geodetic System 1984 (WGS 84). Geographic positions referenced to the North American Datum of 1927 must be corrected an average of 5.262" northwest and 1.513" eastward to agree with this chart.

NOTE Z
NO-DISCHARGE ZONE, 40 CFR 140
The State of New York waters in the Hudson River from the Battery to Federal Lock and Dam at 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 of the zone even 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. Information concerning the location of pump out facilities requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/regulatory/vessel_sewage/.

AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

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

FISH TRAP AREAS
Boundary lines of fish trap areas are shown thus:
Submerged piling may exist in these areas.

TIDAL INFORMATION

PLACE		Height referred to datum of soundings (MLLW)		
NAME	(LAT.0,LONG)	Mean Higher High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Alpine	(40°57'N;73°55'W)	4.2	3.9	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. (Jul 2013)

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)
Aids to Navigation (lights are white unless otherwise indicated)

AUWV watercritical		Gr green	Mo morse code		R Tft radio tower
Al alternating		IQ interrupted-quick	N nun		Rot rotating
B black		Iso isophase	OBSC obscured		s seconds
Bn beacon		LT HO lighthouse	Oc occulting		SEC sector
C c		M nautical mile	O orange		St N statute miles
Dia diaphone		m metres	Q quick		VQ very quick
F fixed		MICRO TR microwave tower	R red		UQ ultra quick
Fl flashing		Mkr marker	Ra Ref radar reflector		sm/d variable
			R Bn radiobeacon		Y yellow

Bottom characteristics:

Blds boulders	Cb cobble	gr gritty	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	Grs grass	M mud	S sand	sy stony

Miscellaneous:

AUWV authorized	Obstr obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

⚠ Wreck, rock, obstructive, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.
COLREGS International Regulations for Preventing Collisions at Sea, 1972.
Demarcation lines are shown thus: — — — —

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, and U.S. Coast Guard.

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

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 lighted buoys. For details see U.S. Coast Guard Light List.

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

SCALE 1:10,000
Nautical Miles
Yards

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - EAST COAST

NEW YORK-NEW JERSEY

HUDSON RIVER

YONKERS TO PIERMONT

Mercator Projection
Scale 1:10,000 at Lat. 41°00'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

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

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).

FATHOMS	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60
FEET	6	12	18	24	30	36	42	48	54	60	90	120	150	180	210	240	270	300	330	360
METERS	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60

LOGARITHMIC SPEED SCALE
1 2 3 4 5 6 7 8 9 10 15 20 25 30 40 50 60
To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.2 nautical miles run in 15 minutes, the speed is 16.8 knots.

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

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/

SOUNDINGS IN FEET

Hudson River, Yonkers to Piermont
SOUNDINGS IN FEET - SCALE 1:10,000

12346

Last Correction: 4/21/2015. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)

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