SOUNDINGS IN FEET

12343

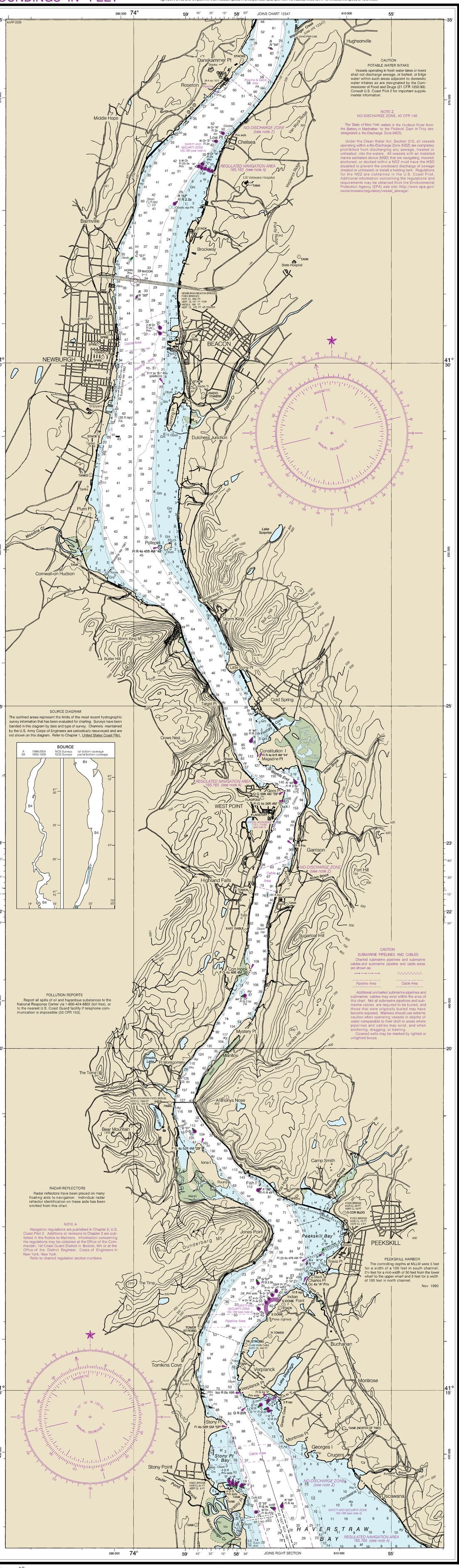
LOGARITHMIC SPEED SCALE

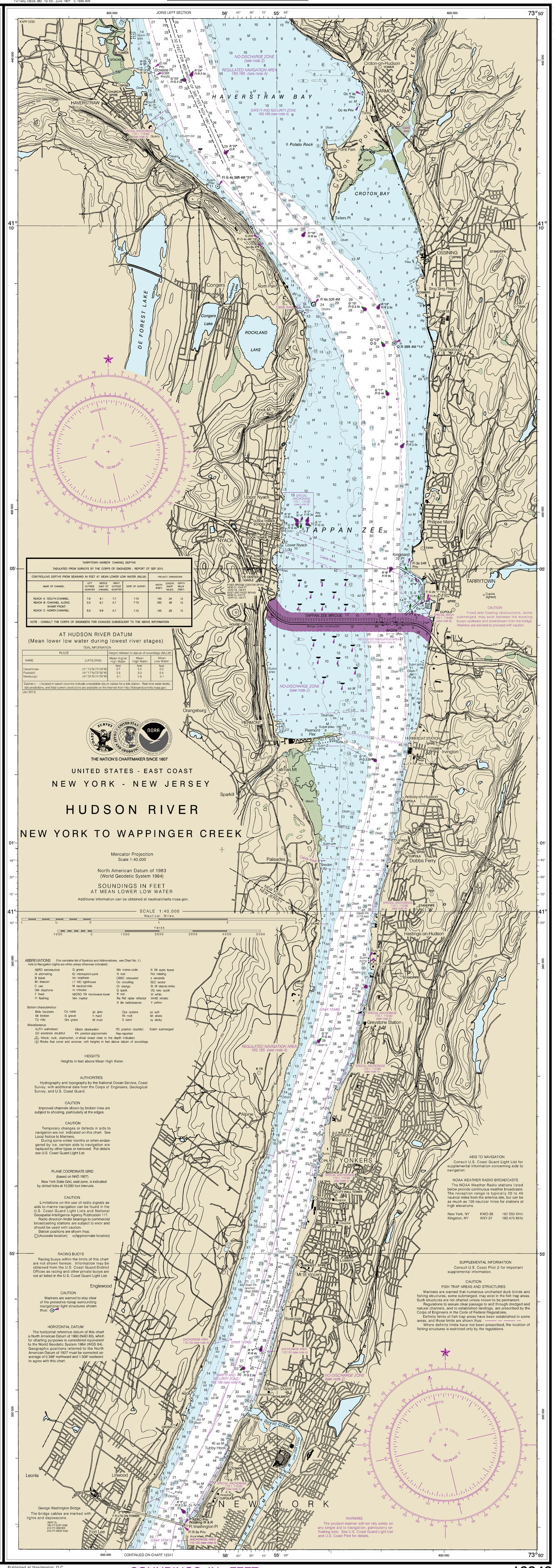
1 2 3 4 5 6 7 8 9 10 15 20 25 30 40 50 60

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 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots.

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 (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

Formerly C&GS 282, 1st Ed., June 1907 C 1935-409





TARRYTOWN HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2013

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW): LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS: WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
REACH A - SOUTH CHANNEL	7.6	8.1	7.7	7-13	150	.34	12
REACH B - CHANNEL ALONG WHARF FRONT	5.5	6.7	5.7	7-13	250	.38	12
REACH C - NORTH CHANNEL	6.5	6.9	5.7	7-13	150	.28	12

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

AT HUDSON RIVER DATUM
(Mean lower low water during lowest river stages)

TIDAL INFORMATION

PLACE NAME	(LAT/LONG)	Height referred to datum of soundings (MLLW): Mean Higher High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Haverstraw	(41°13'N/73°58'W)	3.7	3.4	0.2
Peekskill	(41°17'N/73°56'W)	3.5	3.3	0.4
Newburgh	(41°30'N/74°00'W)	3.1	2.9	0.1

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. (Jan 2013)

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - EAST COAST

NEW YORK - NEW JERSEY

HUDSON RIVER

NEW YORK TO WAPPINGER CREEK

Mercator Projection
Scale 1:40,000

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.

SCALE 1:40,000

Nautical Miles

Yards

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical; Al alternating; B black; Bn beacon; C can; DIA diaphone; F fixed; Fl flashing; G green; IQ interrupted quick; Iso isophase; LT HO lighthouse; M nautical mile; m minutes; MICRO TR microwave tower; Mkr marker; Mo morse code; N nun; OBSC obscured; Oc occulting; Or orange; Q quick; R red; Ra Ref radar reflector; R Bn radiobeacon; R TR radio tower; Rot rotating; s seconds; SEC sector; St M statute miles; VQ very quick; W white; WHIS whistle; Y yellow

Bottom characteristics:

Blds boulders; Co coral; bk broken; G gravel; Cy clay; gy gray; h hard; M mud; Grs grass; Oys oysters; Rk rock; S sand; so soft; Sh shells; sy sticky

Miscellaneous:

AUTH authorized; Obstn obstruction; PD position doubtful; Subm submerged; ED existence doubtful; PA position approximate; Rep reported; (3) Wreck, rock, obstruction, or shoal swept clear to the depth indicated; (2) Rocks that cover and uncover, with heights in feet above datum of soundings.

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, Geological Survey, 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 other types or removed. 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 10,000 foot intervals.

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) ○(Approximate location)

RACING BUOYS
Racing buoys within the limits of this chart are not shown hereon. Information may be obtained from the U.S. Coast Guard District Offices as racing and other private buoys are not all listed in the U.S. Coast Guard Light List.

CAUTION
Mariners are warned to stay clear of the protective riprap surrounding navigational light structures shown thus:

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 0.348" to northwest and 1.508" eastward to agree with this chart.

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

NOAA WEATHER RADIO BROADCASTS
The NOAA Weather Radio stations listed below provide 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
Kingston, NY	WXY-37	162.475 MHz

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Guard Light List for important supplemental information.

CAUTION
FISH TRAP AREAS AND STRUCTURES
Mariners are warned that numerous uncharted duck blinds and fishing structures, some submerged, may exist in the fish trap areas. Such structures are not charted unless known to be permanent.
Regulations to assure clear passage to and through dredged and natural channels, and to established landings, are prescribed by the Corps of Engineers in the Code of Federal Regulations.
Definite limits of fish trap areas have been established in some areas, and those limits are shown thus:
Where definite limits have not been prescribed, the location of fishing structures is restricted only by the regulations.

FATHOMS	FEET	METERS
1	6	2
2	12	4
3	18	5
4	24	7
5	30	9
6	36	11
7	42	13
8	48	15
9	54	17
10	60	18
11	66	20
12	72	22
13	78	24
14	84	26
15	90	27
16	96	29
17	102	31

To ensure that this chart was printed at the proper scale, the line below should measure six inches (152 millimeters). If the line does not measure six inches (152 millimeters), this copy is not certified safe for navigation.

20th Ed., Mar. / 13

12343

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 nauticalcharts.noaa.gov.

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

SOUNDINGS IN FEET

Hudson River, New York to Wappinger Creek

SOUNDINGS IN FEET - SCALE 1:40,000

12343

Last Correction: 7/3/2014. Cleared through:
LNM: 2914 (7/22/2014), NM: 3114 (8/2/2014), CHS: 0614 (6/27/2014)

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