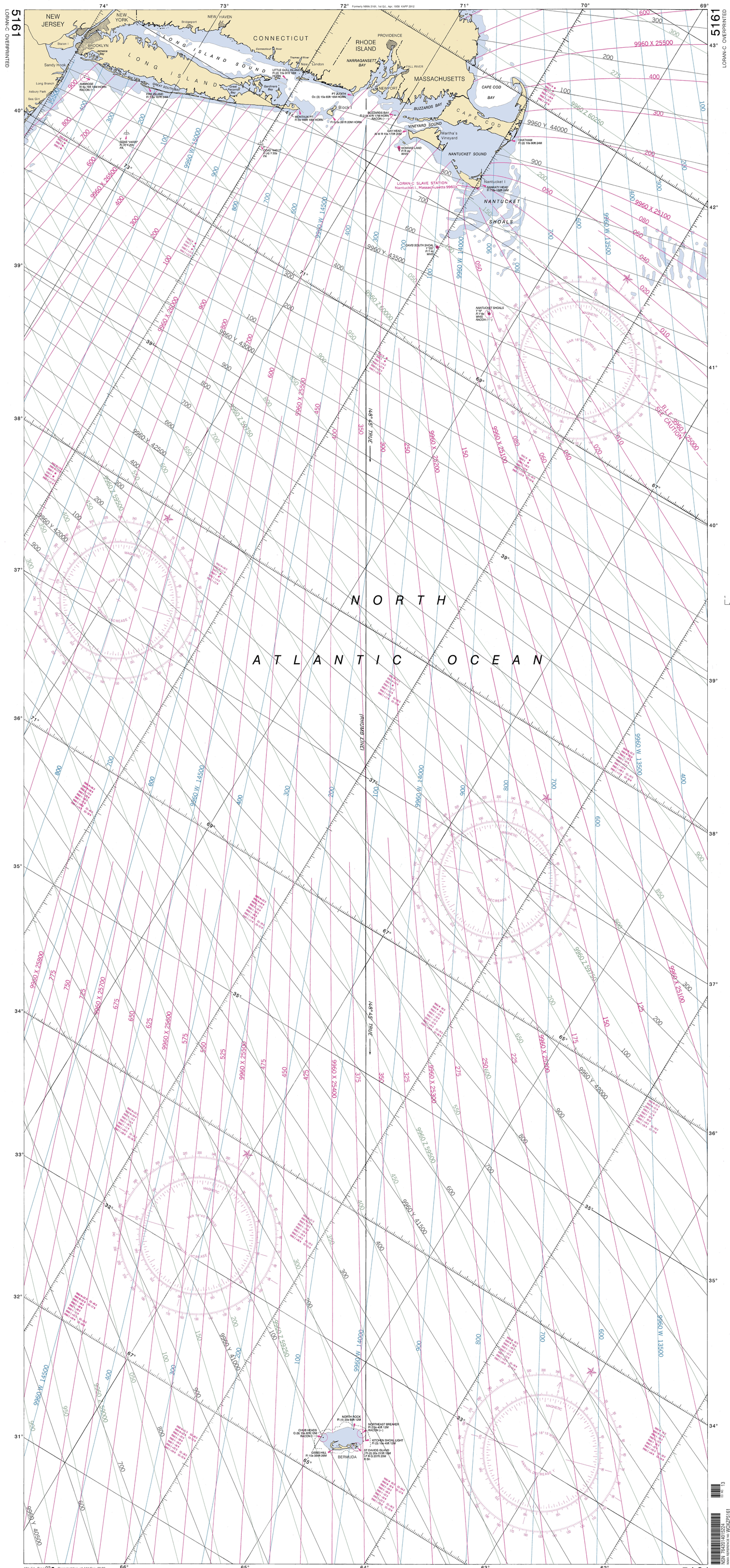
5161
LORAN-C OVERPRINTED

Formerly NIMA 5161, 1st Ed., Apr. 1958 KAPP 2912



NOAA — National Oceanic and Atmospheric Administration — Coast Survey

ATLANTIC COAST

PLOTTING SHEET

NEWPORT TO BERMUDA

Primarily for use in ocean sailing

Mercator Projection
Scale 1:1,058,400 at Lat. 37°

North American Datum of 1983
(World Geodetic System 1984)

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

For Symbols and Abbreviations see Chart No. 1

HEIGHTS
Heights in feet above Mean High Water.

AUTHORITIES
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the National Imagery and Mapping Agency and U.S. Coast Guard.

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 of 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 do not require conversion to NAD 83 for plotting on this chart.

NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 1,2,3 and 4. 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, MA or the 5th Coast Guard District in Portsmouth, VA or at the Offices of the Division Engineer, Corps of Engineers in Waltham, MA, the District Engineer, Corps of Engineers in New York, NY and Philadelphia PA.
Refer to charted regulation section numbers.

SUPPLEMENTAL INFORMATION
Consult National Imagery and Mapping Agency Pub. 147 (Sailing Directions - Caribbean Sea, Vol. 1) and U.S. Coast Pilots 1-4 for important supplemental information.

CAUTION
This plotting sheet does not have sufficient detail. Certain aids to navigation and wrecks are not shown. Mariners must utilize appropriate nautical charts in conjuction with this plotting sheet to ensure navigation safety. For details consult larger scale NOAA and NIMA charts, and USCG and NIMA Light Lists.

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.

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.

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 NIMA List for details.

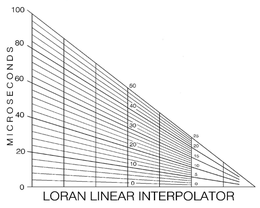
POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

PRINT-ON-DEMAND CHARTS
NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Not-ces to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, http://NauticalCharts.gov, help@NauticalCharts.gov, or OceanGrafix at 1-877-SEACHART, http://OceanGrafix.com, or help@OceanGrafix.com.

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.

LOGARITHMIC SPEED SCALE

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 spread is 16.0 knots



LORAN LINEAR INTERPOLATOR

LORAN-C
GENERAL EXPLANATION

LORAN-C FREQUENCY.....100kHz
PULSE REPETITION INTERVAL
9960.....99,600 Microseconds
STATION TYPE DESIGNATORS: (Not individual station letter designators).
M.....Master
W.....Secondary
X.....Secondary
Y.....Secondary
Z.....Secondary

EXAMPLE: 9960-X

RATES ON THIS CHART
9960-W 9960-X 9960-Y 9960-Z

Loran-C correction tables published by the National Imagery and Mapping Agency or others should not be used with this chart. The lines of position shown have been adjusted based on survey data. Every effort has been made to meet the ¼ nautical mile accuracy criteria established by the U.S. Coast Guard. Mariners are cautioned not to rely solely on the lattices in inshore waters.

Additional loran coverage in this area may be shown on other charts and publications listed in NOAA Atlantic Coast Catalog and NIMA Chart Catalog - Region 2. The skywave corrections are shown at projection intersections. When a correction decreases in value to zero, no further zeros are shown.

CAUTION
Loran readings in the area adjacent to the Baseline Extension are unreliable.

✱ Do not use skywaves in this area.

13th Ed., Oct./ 03 ■ Corrected through NM Sep. 20/03
Corrected through LNM Sep. 2/03

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CAUTION:
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Imagery and Mapping 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.

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

Newport To Bermuda
SCALE 1:1,058,400

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