Field Chart
GYRE 80-9
Satellite fixes

Formerly C&GS 1109. 1st. Ed., July 1913 C-1913-123

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

NOTE S
Regulations for ocean dumping sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices.

SOUNDINGS IN FATHOMS

Nautical Chart Catalog No. 1, Panel C

12200 LORAN-C OVERPRINTED

NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilots 3 and 4, or weekly Notice to Mariners which include new or revised regulations. Information concerning the regulations may be obtained at the Offices of the District Engineer, Corps of Engineers in Baltimore, Md., and Charleston, South Carolina.
Anchorage regulations may be obtained at the Office of the Commander, 5th Coast Guard District in Portsmouth, Va., and 7th Coast Guard District in Miami, Florida.
Refer to section numbers shown with area designation.

NOTE D
TRAFFIC SEPARATION SCHEME
The RECOMMENDED route, for entering and departing from Delaware and Chesapeake Bays, is marked by a tinted purple line centered on a line of fairway buoys which separates the courses of inbound and outbound vessels. Vessels should leave all buoys on their port hand. The pilotage areas are marked by tinted purple bands. Traffic within the precautionary areas may consist of vessels operating between the bays and one of the established traffic lanes. Mariners are advised to exercise extreme care in navigating within these areas. The Traffic Separation Schemes are intended to aid in the prevention of collisions at the approaches to major harbors, but are not intended in any way to supersede or alter the applicable Rules of the Road.

CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See 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.

NON-DANGEROUS WRECKS
Non-dangerous wrecks shown on charts 12214 and 12221 have been omitted from this chart. The wrecks on charts 12214 and 12221 are shown in purple.

CAUTION
Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and Defense Mapping Agency Hydrographic/Topographic Center Publication 117 (A & B).
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)

NOTE B
DANGER AREA
Area is open to unrestricted surface navigation but all vessels are cautioned neither to anchor, dredge, trawl, lay cables, bottom, nor conduct any other similar type of operation because of residual danger from mines on the bottom.

UNITED STATES – EAST COAST

CAPE MAY TO CAPE HATTERAS

SOUNDINGS IN FATHOMS
AT MEAN LOW WATER

(For offshore navigation only)
Mercator Projection
Scale 1:416,944 at Lat. 37°00'
North American 1927 Datum
For Symbols and Abbreviations see Chart No. 1.

HEIGHTS
Heights in feet above Mean High Water

AUTHORITIES
Hydrography and topography by the National Ocean Survey (formerly the Coast and Geodetic Survey) with additional data from the Corps of Engineers, Geological Survey and U.S. Coast Guard

LORAN LINEAR INTERPOLATOR

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.

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

STORM WARNINGS
The National Weather Service displays storm warnings at the following approximate locations:
Chesapeake Light (36°54.3'-75°42.8')
Assateague State Park (38°14.2'-75°08.9')
For complete list of storm warning stations see large scale charts

ATLANTIC OCEAN

PAMLICO SOUND

ALBEMARLE SOUND (see chart 12205)

LORAN-C
GENERAL EXPLANATION
LORAN-C FREQUENCY 100kHz
PULSE REPETITION INTERVAL
9930 ..... 99.300 Microseconds
9960 ..... 99.600 Microseconds
STATION TYPE DESIGNATORS: (Not individual station letter designators)
M ..... Master
W ..... Secondary
X ..... Secondary
Y ..... Secondary
Z ..... Secondary
EXAMPLE 9930-Y

RATES ON THIS CHART
9930-W 9930-X 9930-Y 9930-Z
9960-W 9960-X 9960-Y 9960-Z

This chart has been prepared for use with ground wave signals. Skywave corrections are not provided. The Loran-C lines of position for rates 9930-W, X, Y and Z are compensated for propagation delay. The lines of position for rates 9960-W, X, Y and Z are presently compensated only for theoretical propagation delays which have not yet been verified by observed data. Mariners are cautioned not to rely entirely on the lattices in inshore waters.

NOTE C
Caution
Hydrography is not charted on Diamond Shoals due to the changeable nature of the area. Navigation in the area is extremely hazardous to all types of craft.

LOCAL MAGNETIC DISTURBANCE
Differences of as much as 8° from the normal variation have been observed 3 to 7 nautical miles offshore from Cape Henry to Currituck Beach Light. Differences of as much as 7° from the normal variation have been observed 5 to 7 nautical miles offshore from Currituck Beach Light to Cape Hatteras Shoals. Differences of as much as 3° from the normal variation have been observed 8 to 12 nautical miles offshore from Hatteras Shoals to Cape Hatteras.

LORAN LINEAR INTERPOLATOR

DMA STOCK NO. TZCO12200

32nd Ed., Nov. 10/79
12200
LORAN-C OVERPRINTED

CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the print date shown in the lower left hand corner.

SOUNDINGS IN FATHOMS

For LORAN-A coverage see reverse side

GYRE 80-9 (#80025)
South Continental Shelf,Slope,Rise
Sep 18-Oct 14, 1980
Chief Scientist: Peter Popenoe
TK#0437

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

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

(Cape May to Cape Hatteras)
SOUNDINGS IN FATHOMS - SCALE 1:416,944

GYRE80-9 12200
LORAN-C OVERPRINTED
#80025
TK0437