

SOURCE

| | | | |
|----|-----------|-------------|-------------------------|
| A | 1990-2007 | NOS Surveys | Full bottom coverage |
| B1 | 1990 | NOS Surveys | Partial bottom coverage |
| B4 | 1900-1939 | NOS Surveys | Partial bottom coverage |
| B5 | Pre-1900 | NOS Surveys | Partial bottom coverage |

NOTE B

The U.S. Coast Guard operates a mandatory Vessel Traffic Service (VTS) station on the New York Bay and surrounding areas. Vessel operating procedures and diverging requirements are published in 33 CFR 163, the U.S. Coast Pilot, and the VTS User Manual. The entire area of the chart falls within the Vessel Traffic Service (VTS) system.

CAUTION

SUBMERGED PIPELINES AND CABLES
Charted submarine pipelines and cables areas are shown as follows:
Pipe Line Area
Cable Area

Additional uncharted submarine pipelines and cables may exist within the area of this chart. For all submarine pipelines and cables, it is required to be located, 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 to ensure these pipelines and cables are not struck, and when anchoring, dragging, or trawling. Covered wires may be marked by lighted or unlighted buoys.

ANCHORAGE AREAS
Limits and assigned numbers of anchorage areas are shown in red circles.

GENERAL ANCHORAGES

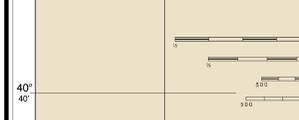
20F 20C 23A 23B
24 34 36 37 41

SCALE 1:15,000

Statute Miles
Yards
Meters

NOTE A

Navigation requirements are published in Chapter 2, U.S. Coast Pilot 2. Additional or seasonal regulations are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commandant, 1st Coast Guard District in Boston, MA, or at the Office of the District Engineer, Corps of Engineers in New York, NY. Refer to qualified registration section numbers.



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UNITED STATES - EAST COAST
NEW YORK - NEW JERSEY

KILL VAN KULL AND NORTHERN PART OF ARTHUR KILL

Scale 1:15,000 at Lat. 40°33'
North American Datum of 1983
(World Geodetic System 1984)
SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

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

HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which is based on the World Geodetic System 1984 (WGS 84). Geographic coordinates referred to the North American Datum of 1983 may be converted to a geoid of 1929 height and used as desired to agree with this chart.

HURRICANES AND TROPICAL STORMS
Hurricanes, tropical storms and other major storms may cause considerable damage to marine structures, aids to navigation and moored vessels, resulting in uncharted depths in uncharted locations.
Charted soundings, channel depths and shoals may not reflect actual conditions following these storms. Field acts to navigation may have been damaged or destroyed. Boats may have been moved from their charted positions, damaged, sunk, or abandoned or otherwise made inoperative. Mariners should not rely upon the position or operation of an aid to navigation (reflecting and submerged obstructions may have been displaced from charted locations. Reports may have become uncharted.
Mariners are urged to exercise extreme caution and are requested to report aids to navigation, discrepancies and shoals to the nearest United States Coast Guard Unit.

POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (not toll), or to the nearest U.S. Coast Guard facility. Telephone communication is impossible (33 CFR 153).

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.

TOTAL INFORMATION

| NAME | PLACE | (GAT)LONG | Mean height | Mean | Mean | Mean |
|----------------|-------------------|-----------|-------------|------------|-----------|-----------|
| | | | High water | High water | Low water | Low water |
| Fort Newburg | (40°41'N/74°00'W) | 5.7 | 107 | 107 | 107 | 107 |
| Fort Mifflin | (40°41'N/74°00'W) | 5.8 | 1.3 | 0.2 | 0.2 | 0.2 |
| Fort Elizabeth | (40°40'N/74°00'W) | 5.8 | 1.2 | 0.2 | 0.2 | 0.2 |

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.

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

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

PLANE COORDINATE GRID
Based on NAD 1983
The New Jersey State Grid is indicated by dotted lines at 0.0001 foot intervals.

CAUTION
Mariners are warned to stay clear of the protective rope surrounding navigational light structures shown here.

CAUTION
Temporary changes or defects in aids to navigation are indicated on this chart. Use Local Notice to Mariners.
During some winter months when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

CONTROLLING DEPTHS FROM SOUNDINGS IN FEET AT MEAN LOWER LOW WATER

| NAME OF CHANNEL | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 |
|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ALL VAN KULL | 11.6 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 | 12.8 | 12.9 | 13.0 | 13.1 | 13.2 | 13.3 | 13.4 | 13.5 | 13.6 | 13.7 | 13.8 | 13.9 | 14.0 |
| CONVENT HOOK REACH | 10.8 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 | 12.8 | 12.9 | 13.0 | 13.1 | 13.2 |
| BAYONNE CITY PARK | 10.7 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 | 12.8 | 12.9 | 13.0 | 13.1 |
| MIDDLE REACH NORTH | 10.6 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 | 12.8 | 12.9 | 13.0 |
| MIDDLE REACH SOUTH | 10.5 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 | 12.8 | 12.9 |
| PORT ELIZABETH SOUTH REACH WEST | 10.4 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 | 12.8 |
| PORT ELIZABETH SOUTH REACH EAST | 10.3 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 |
| PORT ELIZABETH NORTH REACH | 10.2 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 |
| PORT ELIZABETH NORTH REACH WEST | 10.1 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 |
| PORT ELIZABETH NORTH REACH EAST | 10.0 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 |
| PORT ELIZABETH NORTH REACH WEST | 9.9 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 |
| PORT ELIZABETH NORTH REACH EAST | 9.8 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 |
| PORT ELIZABETH NORTH REACH WEST | 9.7 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 |
| PORT ELIZABETH NORTH REACH EAST | 9.6 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 |
| PORT ELIZABETH NORTH REACH WEST | 9.5 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 |
| PORT ELIZABETH NORTH REACH EAST | 9.4 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 |
| PORT ELIZABETH NORTH REACH WEST | 9.3 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 |
| PORT ELIZABETH NORTH REACH EAST | 9.2 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 |
| PORT ELIZABETH NORTH REACH WEST | 9.1 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 |
| PORT ELIZABETH NORTH REACH EAST | 9.0 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 |
| PORT ELIZABETH NORTH REACH WEST | 8.9 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 |
| PORT ELIZABETH NORTH REACH EAST | 8.8 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 |
| PORT ELIZABETH NORTH REACH WEST | 8.7 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 |
| PORT ELIZABETH NORTH REACH EAST | 8.6 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 |
| PORT ELIZABETH NORTH REACH WEST | 8.5 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 |
| PORT ELIZABETH NORTH REACH EAST | 8.4 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 |
| PORT ELIZABETH NORTH REACH WEST | 8.3 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 |
| PORT ELIZABETH NORTH REACH EAST | 8.2 | 8.7 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 |
| PORT ELIZABETH NORTH REACH WEST | 8.1 | 8.6 | 8.7 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 |
| PORT ELIZABETH NORTH REACH EAST | 8.0 | 8.5 | 8.6 | 8.7 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 |
| PORT ELIZABETH NORTH REACH WEST | 7.9 | 8.4 | 8.5 | 8.6 | 8.7 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 |
| PORT ELIZABETH NORTH REACH EAST | 7.8 | 8.3 | 8.4 | 8.5 | 8.6 | 8.7 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 |
| PORT ELIZABETH NORTH REACH WEST | 7.7 | 8.2 | 8.3 | 8.4 | 8.5 | 8.6 | 8.7 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 |
| PORT ELIZABETH NORTH REACH EAST | 7.6 | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 | 8.6 | 8.7 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 |
| PORT ELIZABETH NORTH REACH WEST | 7.5 | 8.0 | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 | 8.6 | 8.7 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | | | | | |