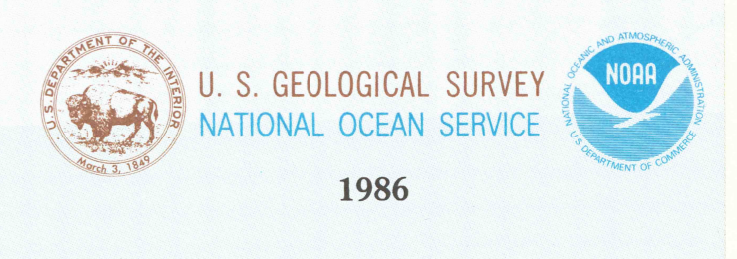


- 30 X 60 MINUTE QUADRANGLE SHOWING
- Contours and elevations in meters
 - Highways, roads and other manmade structures
 - Water features
 - Woodland areas
 - Geographic names
 - Bathymetric contours in meters



Produced by the United States Geological Survey and the National Ocean Service

Compiled from USGS 1:50,000-scale topographic maps dated 1953-1973. Planimetry revised from aerial photographs taken 1960 and other source data. Revised information not field checked. Map dated 1986.

Bathymetry compiled by the National Ocean Service from tide-coordinated bathymetric surveys. This information is not checked for cartographic purposes.

Mean low water (dotted line) and mean high water (heavy solid line) compiled by NOS from tide-coordinated aerial photographs. Apparent shoreline (outer edge of vegetation) shown by light solid line.

Projection and 10,000-meter grid, zone 18; Universal Transverse Mercator; 25,000-foot grid links based on the New Jersey coordinate system and Pennsylvania coordinate system, south zone 1927 North American Datum.

To place on the projected North American Datum 1983, move the projection lines 1 meter south and 26 meters west.

There may be private subdivisions within the boundaries of the National or State reservations shown on this map.

CONTOUR INTERVAL 10 METERS

NATIONAL GEODETIC VERTICAL DATUM OF 1929 ELEVATION SHOWN TO THE NEAREST METER

BATHYMETRIC CONTOUR INTERVAL 2 METERS WITH SUPPLEMENTARY 1 METER CONTOUR-MEAN LOW WATER DATUM

THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

BASE MAP COMPLES WITH NATIONAL MAP ACCURACY STANDARDS. BATHYMETRIC SURVEY DATA COMPLES WITH INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO) SPECIAL PUBLICATION 44 ACCURACY STANDARDS AND/OR STANDARDS USED AS OF THE DATE OF THE SURVEYS

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9659
8	26.2467
9	29.5275
10	32.8084

To convert meters to feet multiply by 3.2808

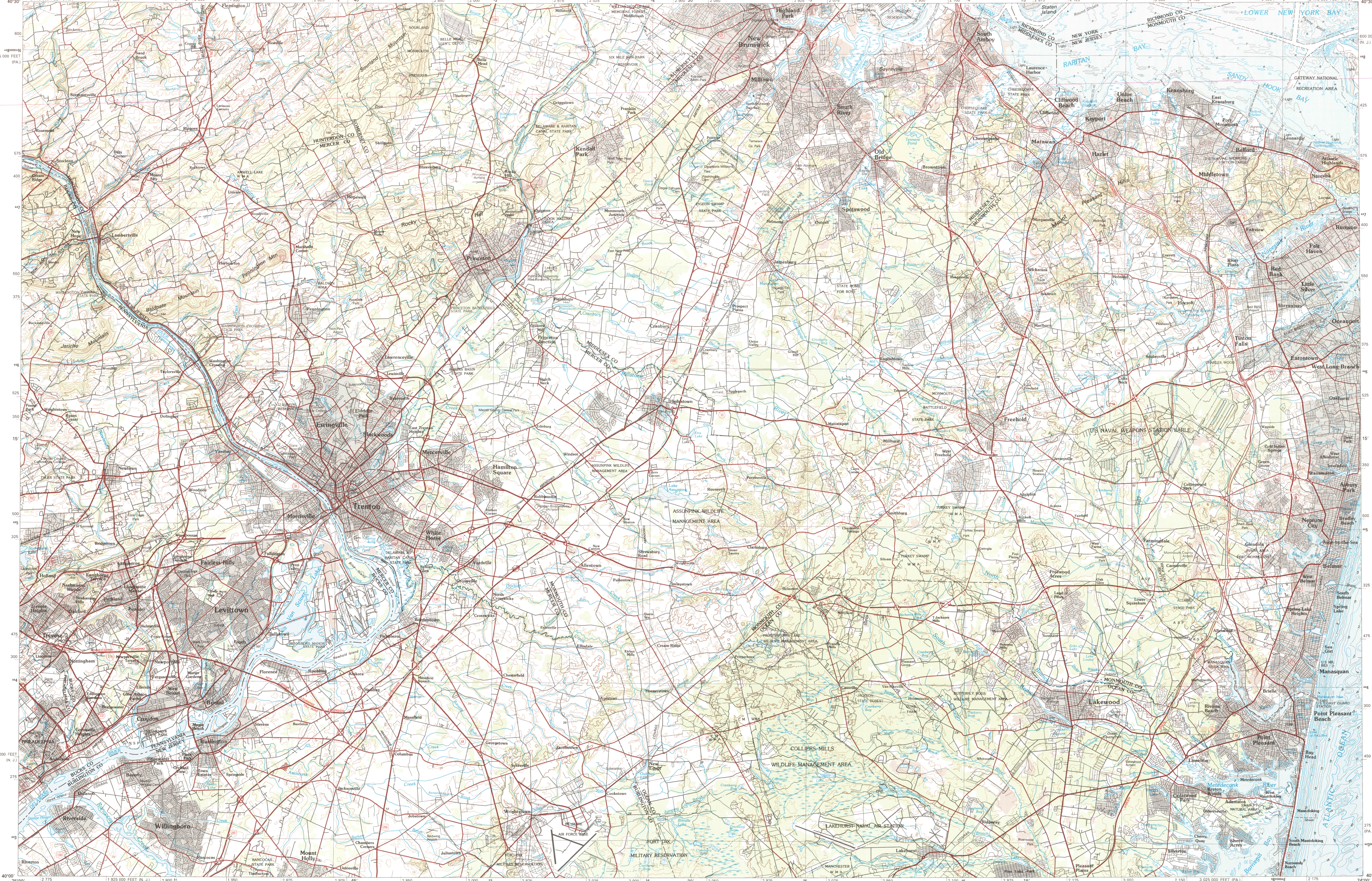
To convert feet to meters multiply by 0.3048

FOR SALE BY U.S. GEOLOGICAL SURVEY DENVER, COLORADO 80225, OR RESTON, VIRGINIA 20192 AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852

Topographic Map Symbols

- Primary highway, hard surface
- Secondary highway, hard surface
- Light duty road, principal street, hard or improved surface
- Other road or street, rail
- Route marker, interstate; U. S. State
- Railroad, standard gage; narrow gage
- Bridge, overpass; underpass
- Tunnel, road, railroad
- Build-up area, landing, elevation
- Airport, landing field, landing strip
- National boundary
- State boundary
- County boundary
- Natural or State reservation boundary
- Land grant boundary
- U. S. public lands survey, range, township, section
- Range, township, section line: protected
- Power transmission line, pipeline
- Canal, dam with lock
- Cemetery, building
- Windmill, water well, spring
- Mine shaft, salt or cave, mine, quarry, gravel pit
- Compass, public area, U. S. section monument
- Run; off dwelling
- Distorted surface: strip mine, lava, sand
- Contours: index, intermediate, supplementary
- Bathymetric contours: index, intermediate
- Shoreline, lake, perennial, intermittent
- Ripids, large and small; falls, large and small
- Area to be submerged; marsh, swamp
- Land subject to controlled inundation; woodland
- Sand; mangrove
- Drifted; vineyard

A pamphlet describing topographic maps is available on request



SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

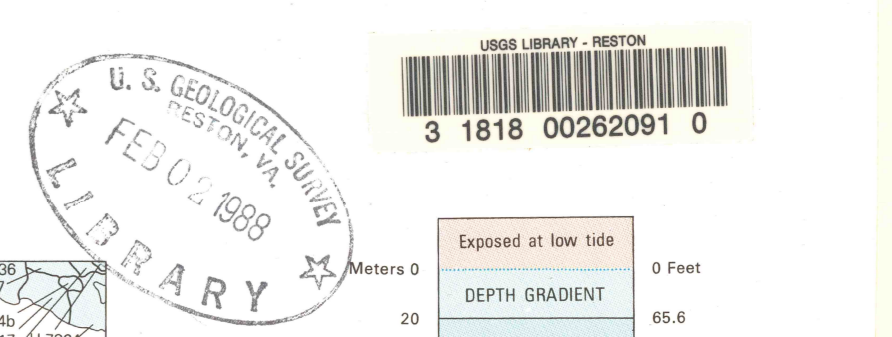
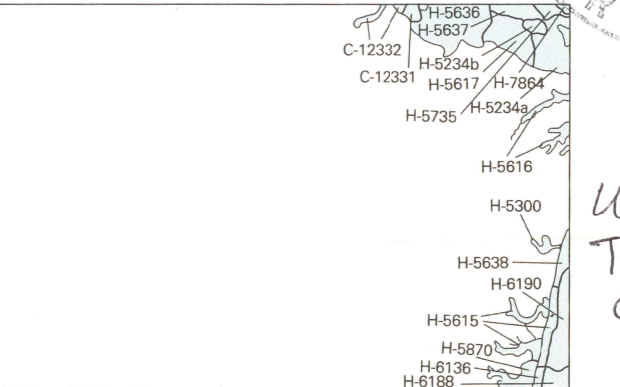
CONTOUR INTERVAL 10 METERS

TRENTON, NEW JERSEY-PENNSYLVANIA-NEW YORK 40074-A1-TB-100 1986

HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY UNIT METERS
H0204a	1932	1:10,000	03.14
H0204b	1932	1:10,000	03.12
H0215	1934	1:10,000	03.08
H0216	1934	1:10,000	03.10
H0217	1934	1:10,000	03.08
H0218	1934	1:10,000	03.08
H0219	1934	1:10,000	03.11
H0220	1934	1:10,000	03.20
H0221	1935	1:10,000	03.08
H0222	1936	1:10,000	03.08
H0223	1936	1:10,000	03.08
H0224	1936	1:10,000	03.08
H0225	1936	1:10,000	03.08

HYDROGRAPHIC SURVEY INDEX



United States Topo. 1:100,000
Trenton, NJ-PA-NY 1986
Copy 1

Photographic copies of the above and prior surveys may be obtained at the cost of reproduction by addressing the Director (NCG 243), National Ocean Service, National Oceanic and Atmospheric Administration, Washington, D.C. 20541