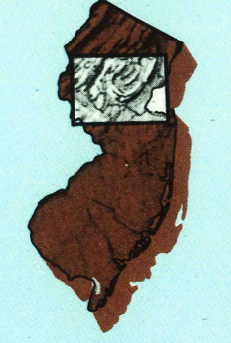


Newark

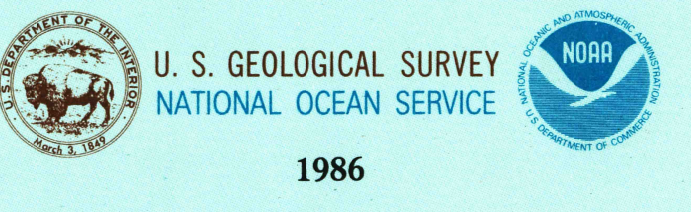
NEW JERSEY-NEW YORK

1:100 000-scale metric
topographic-bathymetric map



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 1:250,000-scale topographic maps dated 1979-1981. Bathymetry derived from soundings taken 1985 and other source data. Revised information not field checked. Map dated 1986.
Bathymetry compiled by the National Ocean Service from bathymetric hydrographic surveys. This information is not intended for navigational purposes. Mean low water (dotted line) and mean high water (heavy solid line) compiled by NOS from tide-coastal profile photographs. Apparent shoreline (outer edge of vegetation) shown by light solid line.
Projection and 30 000-meter grid zone 18. Universal Transverse Mercator 25 000-foot grid ticks based on New Jersey coordinate system, and New York coordinate system, Long Island Sound 1987 North American Datum.
To place on the projected North American Datum 1983, move the projection lines 6 meters south and 34 meters west.
There may be private inholdings within the boundaries of the National or State reservations shown on this map.

CONTOUR INTERVAL 20 METERS
SUPPLEMENTARY CONTOUR INTERVAL 10 METERS
NATIONAL GEODETIC DATUM OF 1979
ELEVATIONS SHOWN TO THE NEAREST METERS
BATHYMETRIC CONTOUR INTERVAL 1 METERS WITH SUPPLEMENTARY 1 METER CONTOURS-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 SURVEYS USED AS OF THE DATE OF THE SURVEYS

Meters

Feet

1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4043
6	19.6852
7	22.9660
8	26.2469
9	29.5278
10	32.8084

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

MN

GN

12°W

92°W

222 MILES

8 MILES

UTM grid convergence (GN) and 18E magnetic declination (MN) at center of map.

Diagram is approximate

1	2	3
4	5	
6	7	8

1 Scranton

2 Middletown

3 Bridgeport

4 Allentown

5 Easton and West

6 Reading

7 Trenton

8 Long Branch

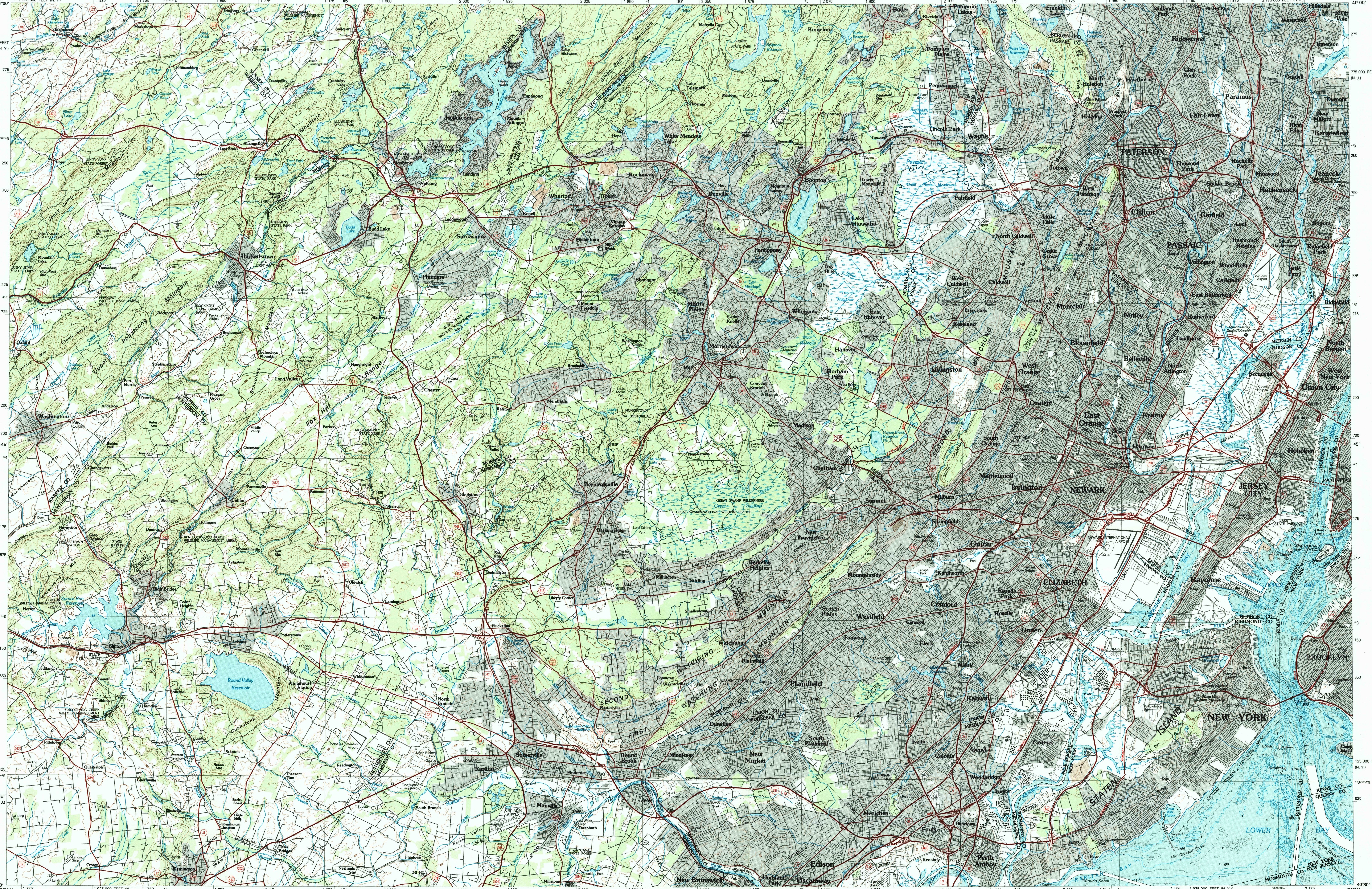
FOR SALE BY U. S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852

Topographic Map Symbols

- Primary highway, hard surface
- Secondary highway, hard surface
- Light duty road, principal street, hard or improved surface
- Other road or street; trail
- Route marker: Interstate, U. S., State
- Railroad: standard gauge, narrow gauge
- Bridge, overpass, underpass
- Tunnel: road, railroad
- Built up area; locality; elevation
- Airport; landing field; landing strip
- National boundary
- County boundary
- National or State reservation boundary
- Land grant boundary
- U. S. public lands survey: range, township, section
- Range, township, section line: protected
- Power transmission line; pipeline
- Dam; dam with lock
- Quarry; building
- Windmill; water well; spring
- Mine shaft; adit or cave; mine, quarry, gravel pit
- Campground; picnic area; U. S. location monument
- Ruin; cliff dwelling
- Quarried surface; strip mine; lava; sand
- Contours: index; intermediate; supplementary
- Bathymetric contours: index; intermediate
- Stream, lake; perennial; intermittent
- Rapids, large and small; falls, large and small
- Area to be submerged; marsh, swamp
- Land subject to controlled inundation; woodland
- Scrub; mangrove
- Orchard; vineyard

A pamphlet describing topographic maps is available on request

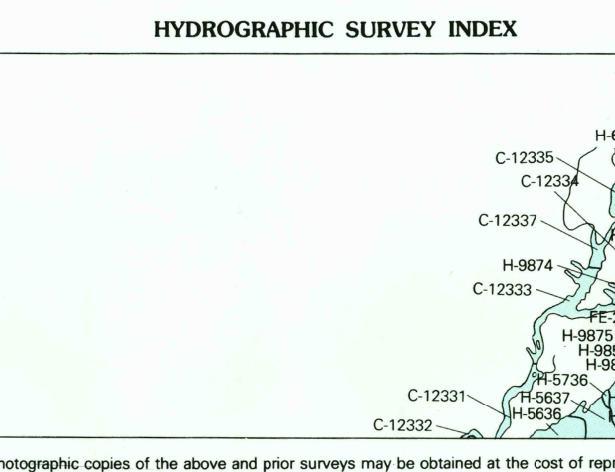
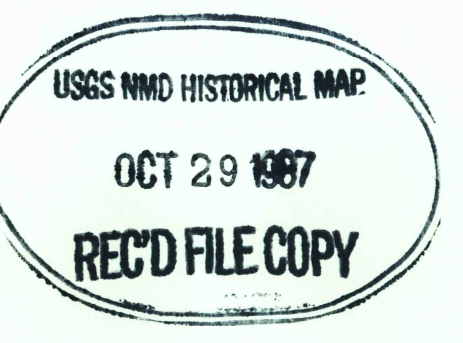
NEWARK, NEW JERSEY-NEW YORK



SCALE 1:100 000
1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 20 METERS
SUPPLEMENTARY CONTOUR INTERVAL 10 METERS

HYDROGRAPHIC SURVEY INFORMATION			
SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (METERS)
H-5805	1834	1:10,000	01-02
H-5807	1834	1:10,000	02-03
H-5726	1834	1:20,000	04-05
H-5728	1834	1:20,000	05-06
H-5627	1835	1:10,000	01-04
H-5864	1860	1:10,000	02-04
H-5820	1870	1:10,000	03-04
H-5809	1870	1:10,000	03-05
H-5874	1880	1:10,000	03-10
H-5875	1880	1:10,000	03-10
FE-231	1881	1:5,000	01-02

HYDROGRAPHIC SURVEY INDEX			
SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (METERS)
NOS CHART 1330	1881	1:16,000	
NOS CHART 1331	1881	1:16,000	
NOS CHART 1332	1881	1:16,000	
NOS CHART 1333	1881	1:16,000	
NOS CHART 1334	1881	1:16,000	
NOS CHART 1335	1881	1:16,000	
NOS CHART 1336	1881	1:16,000	
NOS CHART 1337	1881	1:16,000	



Photographic copies of the above and prior surveys may be obtained at the cost of reproduction by addressing the Director INCO 243 National Ocean Service, National Oceanic and Atmospheric Administration, Rockville, Maryland 20852