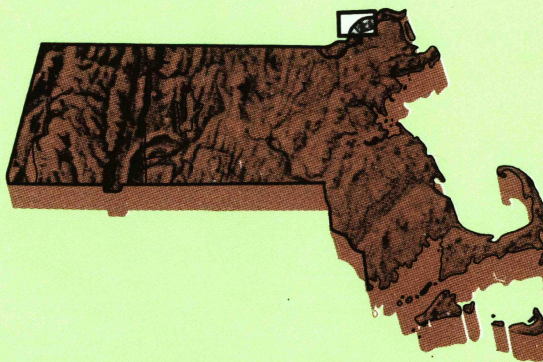


Haverhill

MASSACHUSETTS

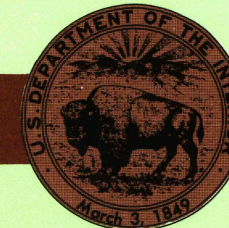
NEW HAMPSHIRE

**1:25 000-scale *metric*
topographic map**



7.5 X 15 MINUTE QUADRANGLE
SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



GEOLOGICAL SURVEY

1985

Produced by the United States Geological Survey
in cooperation with Massachusetts Department
of Public Works

Compiled by photogrammetric methods from aerial photographs taken 1978. Field checked 1979. Map edited 1985. This area also covered by 7.5 minute, 1:24,000-scale maps: Salem District and Haverhill, dated 1968 and 1972.

Salmon Depot and Haverhill dated 1968 and 1972
Selected hydrographic data compiled from NOS chart 13274 (1968)
This information is not intended for navigational purposes
Projection and 1000-meter grid: Universal
Transverse Mercator, zone 19
10,000-foot grid ticks based on New Hampshire coordinate system
and Massachusetts coordinate system, mainland zone
1927 North American Datum
To place on the predicted North American Datum 1983
move the projection lines 6 meters south and
41 meters west as shown by dashed corner ticks
There may be private inholdings within the boundaries of
the National or State reservations shown on this map

CONTOUR INTERVAL 3 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
CONTROL ELEVATIONS SHOWN TO THE NEAREST 0.1 METER
OTHER ELEVATIONS SHOWN TO THE NEAREST 0.5 METER
SOUNDINGS IN METERS
DATUM IS MEAN LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE
OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 2.4 METERS

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS	
Meters	Fath				
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 fath multiply by 3.2808		UTM grid convergence (GN) and 1985 magnetic decl. (ML) at center of map Diagram is approximate		1 Derry (7.5) 2 Sandown (7.5) 3 Kingston (7.5) 4 Exeter 5 Kingston (7.5) 6 Newburyport 7 Lowell 8 Lawrence Ipswich	
To convert fath to meters multiply by 0.3048					

FOR SALE BY U. S. GEOLOGICAL SURVEY
RESTON, VIRGINIA 22092

Topographic Map Symbols

Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road: trail, path
Route marker: circular, U.S. State
Railroad: standard gage; narrow gage
Bridge: drawbridge
Fence: overpass; underpass
Build-up area: only selected landmark buildings shown
House, barn; church; school; large structure
Boundary:
National, with monument
State
County, parish
Civil township, precinct, district
Incorporated city, village, town
National or State reservation; small park
Land grant with monument; farm section corner
U.S. public lands survey: range, township, section
Range, township, section line: location approximate
Fence or field line
Power transmission line, located tower
Dam; dam with lock
Canal; water lock
Cemetery; grave
Campground
Windmill; water well; spring
Mine shaft; prospect; adit or cave
Contour: horizontal; vertical; station; spot elevation
Contours: intermediate; supplementary; depression
Distorted surface: strip mine; lava; sand
Bathymetric contours: intermediate
Perennial lake and stream; intermittent lake and stream
Reefs, large and small; bays, large and small
Submerged marsh; marsh, swamp
Land subject to controlled inundation; woodland
Scrub, mangrove

A pamphlet describing topographic maps is available on request.



SCALE 1:25 000

1 CM ON THE MAP REPRESENTS 250 METERS ON THE GROUND
CONTOUR INTERVAL 3 METERS

HAVERHILL, MASSACHUSETTS—NEW HAMPSHIRE

42071-G1-TM-025

1985