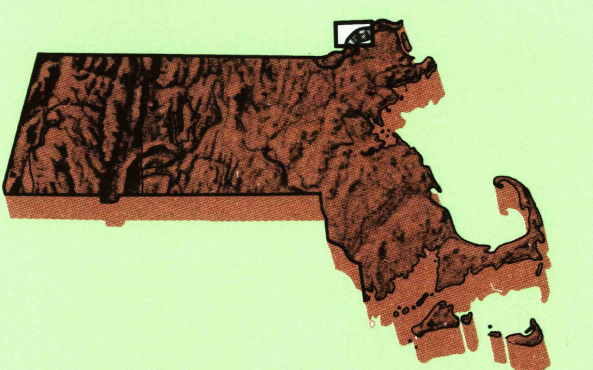




Haverhill

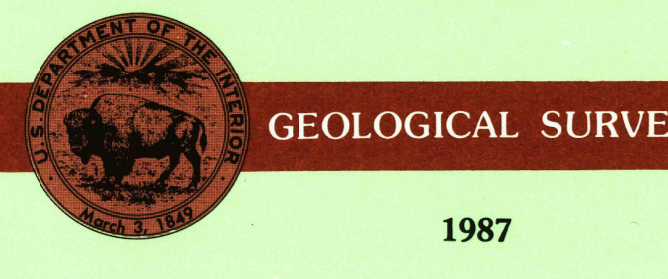
MASSACHUSETTS NEW HAMPSHIRE

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



Produced by the United States Geological Survey in cooperation with Massachusetts Department of Public Works
Control by USGS, NOS/NOAA, Commonwealth of Massachusetts agencies, and State of New Hampshire agencies
Compiled by photogrammetric methods from aerial photographs taken 1976. Field checked 1979. Map edited 1987
This area covered by 7.5-minute, 1:25 000-scale maps: Salem Depot 1968 and Haverhill 1972
Selected hydrographic data compiled from NOS chart 13274 (1982)
This information is not intended for navigational purposes
Universal Transverse Mercator
Projection and 1000-meter grid, zone 19
10 000-foot grid ticks based on Massachusetts coordinate system, mainland zone, and New Hampshire coordinate system 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 labelings 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

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS			
Meters	Feet		1	2	3	
1	3.2808		1	2	3	
2	6.5617		4	5		
3	9.8425		6	7	8	
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		UTM grid convergence (GTM) at 1983 magnetic declination (MD) at center of map. Diagram is approximate				
To convert feet to meters multiply by 0.3048						



Topographic Map Symbols

- Primary highway, hard surface
- Secondary highway, hard surface
- Light-duty road, hard or improved surface
- Unimproved road, trail
- Route marker: Interstate, U.S., State
- Railroad: standard gauge, narrow gauge
- Bridge, drawbridge
- Footbridge, overpass, underpass
- Built-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; found 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
- Cemetery; grave
- Campground; picnic area; U.S. location monument
- Windmill; water well; spring
- Mine shaft; prospect; adit or cave
- Control: horizontal station; vertical station; spot elevation
- Contours: index, intermediate, supplementary, depression
- Distorted surface: strip mine, lava, sand
- Sounding; depth curve
- Perennial lake and stream; intermittent lake and stream
- Rapids, large and small; falls, large and small
- Submerged marsh; marsh, swamp
- Land subject to controlled inundation; woodland
- Scrub; mangrove
- Orchard; vineyard

A pamphlet describing topographic maps is available on request