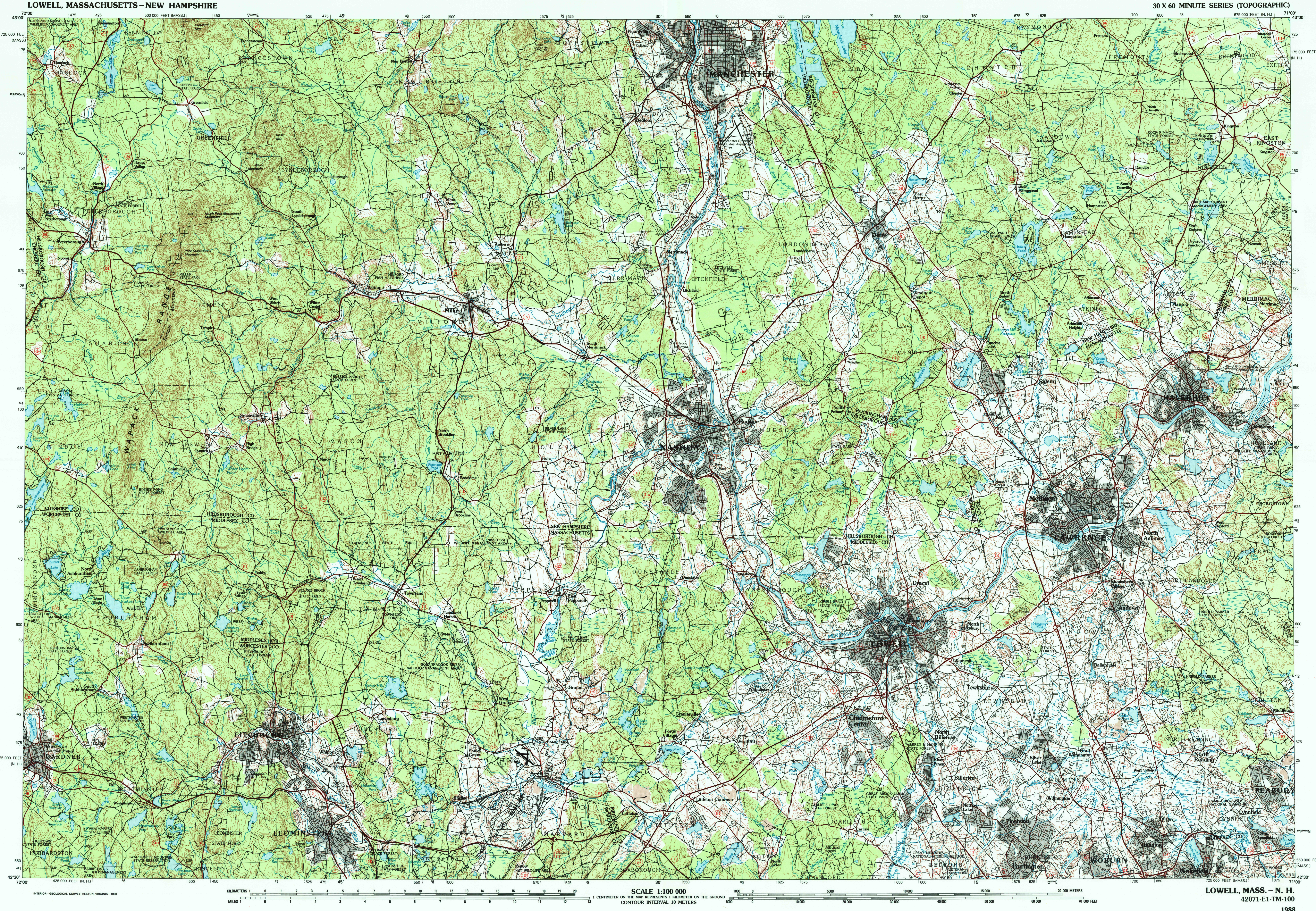
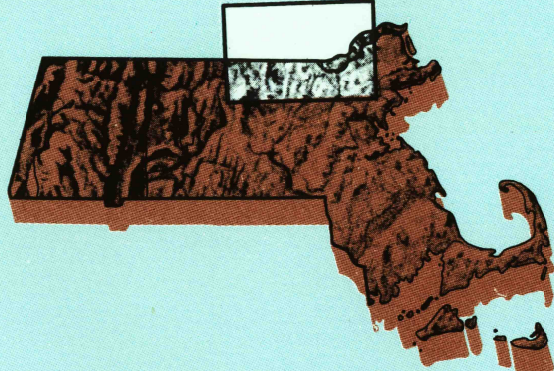




Lowell

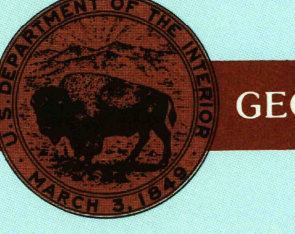
MASSACHUSETTS NEW HAMPSHIRE

1:100 000-scale metric
topographic map



30 X 60 MINUTE QUADRANGLE
SHOWING

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



GEOLOGICAL SURVEY

1988

Produced by the United States Geological Survey
Compiled from 1:24 000 and 1:62 500-scale topographic maps dated 1953-1979. Planimetry revised from aerial photographs taken 1985 and other source data. Revised information not field checked. Map edited 1988
Projection and 10 000-meter grid, zone 19, Universal Transverse Mercator
25 000-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 40 meters west
There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 10 METERS
NATIONAL GEODEIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U.S. GEOLOGICAL SURVEY
P.O. BOX 25286, DENVER, COLORADO 80225

CONVERSION TABLE	
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	29.5276
10	32.8084

DECLINATION DIAGRAM	
UTM grid convergence (GM) and 1983 magnetic declination (MD) at center of map. Diagram is approximate.	
10	10
20	20
30	30
40	40
50	50
60	60
70	70
80	80
90	90
100	100

ADJOINING MAPS		
1	2	3
4	5	6
7	8	9

1 Chelmsford
2 Concord
3 Haverhill
4 Keene
5 Gloucester
6 Hallowell
7 Boston
8 Provincetown

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ISBN 0-607-23434-2

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USGS NMD
HISTORICAL MAP ARCHIVES

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 gage, narrow gage	Bridge: overpass; underpass	Tunnel: road; railroad	Built up area; locality; elevation	Airport; landing field; landing strip	National boundary	State boundary	County boundary	National or State reservation boundary	Land grant boundary	U. S. public lands survey: range, township, section	Range, township; section line: protracted	Power transmission line; pipeline	Dam; dam with lock	Cemetery; building	Windmill; water well; spring	Mine shaft; adit or cave; mine, quarry; gravel pit	Campground; picnic area; U. S. location monument	Ruin; cliff dwelling	Distorted 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	Sand; meadow	Orchard; vineyard
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A pamphlet describing topographic maps is available on request