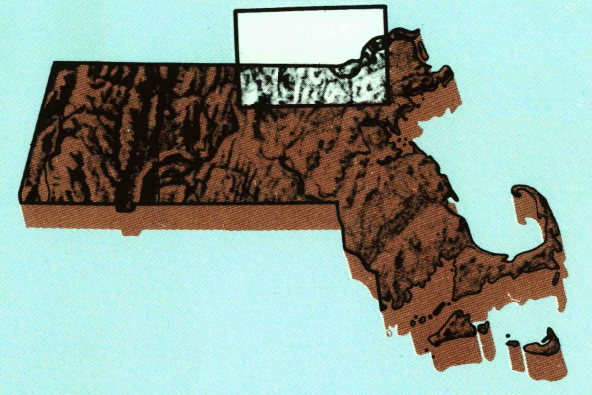


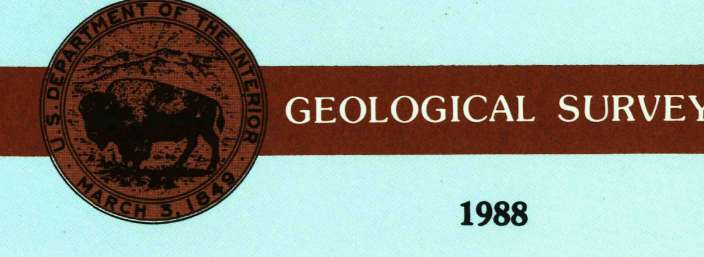
# Lowell

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 GEODETIC VERTICAL DATUM OF 1929  
 ELEVATIONS SHOWN TO THE NEAREST METER

USGS NATIONAL MAP ACCURACY STANDARDS

APR 13 1989

REC'D FILE COPY

| Meters | Feet    |
|--------|---------|
| 1      | 3.2808  |
| 2      | 6.5617  |
| 3      | 9.8425  |
| 4      | 13.1234 |
| 5      | 16.4043 |
| 6      | 19.6852 |
| 7      | 22.9661 |
| 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

DECLINATION DIAGRAM

UTM grid convergence (EN and 08E magnetic declination (MN) at center of map. Diagram is approximate.

| ADJOINING MAPS | 1 | 2  | 3  |
|----------------|---|----|----|
| 4              | 5 | 6  | 7  |
| 8              | 9 | 10 | 11 |

1 Cleaveland  
 2 Concord  
 3 Kennebec  
 4 Kennebec  
 5 Gloucester  
 6 Hallowell  
 7 Boston  
 8 Westbrook

FOR SALE BY U. S. GEOLOGICAL SURVEY  
 DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

### 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: railroad
- Bulk 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: protracted
- Power transmission line; pipeline
- Dam; dam with lock
- Cemetery; building
- Windmill; water well; spring
- Mine shaft; oil or gas well; quarry; gravel pit
- Campground; picnic area; U. S. location monument
- Ruins; cliff dwelling
- Distorted surface: strip mine, lava; sand
- Contours: index; intermediate; supplementary
- Bathymetric contours: index; intermediate
- Stream, lake; perennial; intermittent
- Rapids; ledge and rock; 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

