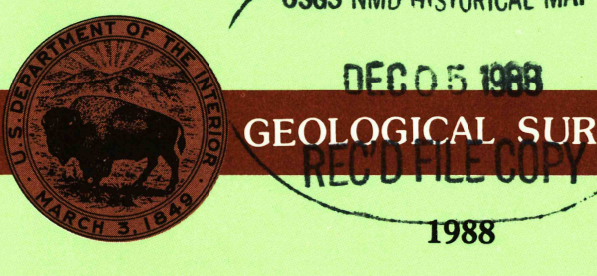


7.5 X 15 MINUTE QUADRANGLE SHOWING

- 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, and Commonwealth of Massachusetts agencies
 Compiled by photogrammetric methods from aerial photographs taken 1980-81. Field checked 1983. Map edited 1988
 Supersedes Ashburnham and Ashby 1:25,000-scale maps dated 1965
 Projection and 1000-meter grid, zone 19 Universal Transverse Mercator
 10,000-foot grid ticks: 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 5 meters south and 39 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
 Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

CONTOUR INTERVAL 3 METERS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 OTHER ELEVATIONS SHOWN TO THE NEAREST 0.1 METER
 OTHER ELEVATIONS SHOWN TO THE NEAREST 0.5 METER

THIS MAP COMPLES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS	
Meters	Feet	Diagram showing magnetic declination from true north		1	2
2	6.5617			3	4
4	13.1234			5	6
6	19.6851			7	8
8	26.2468			9	10
10	32.8085				

To convert meters to feet multiply by 3.2808
 To convert feet to meters multiply by 0.3048

UTM grid convergence (1000 and 10000) and declination (MAG) at center of map
 Diagram is approximate

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, hard or improved surface
- Unimproved road, trail
- Roads marker: Interstate, U.S. State
- Railroad: standard gage; narrow gage
- Bridge; drawbridge
- Footbridge; 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; land 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; salt or ore
- Control: horizontal station; vertical station; spot elevation
- Contours: index; intermediate; supplementary; depression
- Distorted surface: strip mine, lava, sand
- Bathymetric contours: index; intermediate
- Perennial lake and stream; intermittent lake and stream
- Rapids, large and small; falls, large and small
- Swamp; marsh
- Saltmarsh; marsh land subject to controlled inundation
- Woodland: scattered trees
- Scrub; mangrove
- Orchard; vineyard

A pamphlet describing topographic maps is available on request

