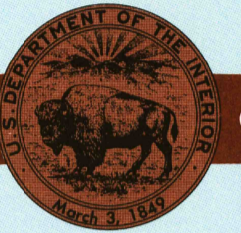


- Elevations in meters
- Highways, roads and other manmade structures
- Water features
- Geographic names



Produced by the United States Geological Survey
 Compiled from USGS 1:24 000-scale topographic maps dated 1970-1979. Planimetry revised from aerial photographs taken 1983 and other source data. Revised information not field checked. Map edited 1984.
 Projection and 10 000-meter grid, zone 19; Universal Transverse Mercator
 25 000-foot grid ticks based on Massachusetts coordinate system, mainland zone
 1927 North American Datum
 To place on the predicted North American Datum 1983 move the projection lines 7 meters south and 43 meters west
 Oblique projection survey data, shown in red, furnished by the Minerals Management Service. Heavy lines indicate limits of Outer Continental Shelf Official Protraction Diagrams dated October 31, 1974. The protraction on this map are not for Federal leasing purposes; for such purposes, refer to the 1:250 000-scale OCS Official Protraction Diagrams available from the Minerals Management Service.
 There may be private inholdings within the boundaries of the National or State reservations shown on this map.

NATIONAL GEODETIC VERTICAL DATUM of 1929
 ELEVATIONS SHOWN TO THE NEAREST METERS

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet			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
 To convert feet to meters multiply by 0.3048

UTM grid convergence (GM) and 1984 magnetic declination (MD) at center of map
 Diagram is approximate

1	2	3
4	5	
6	7	8

1 Lowell
 2 Gloucester
 3
 4 Boston
 5 Providence
 6 New Bedford
 8 Chatham

FOR SALE BY U. S. GEOLOGICAL SURVEY
 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 gage; narrow gage
- Bridge: overpass; underpass
- Tunnel: road; railroad
- Bath or spa; 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: protected
- 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; ledge and small 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

USGS NEED HISTORICAL MAP

JAN 29 1986

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