



Salem MASSACHUSETTS

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

GEOLOGICAL SURVEY

1985

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 1978. Field checked 1979. Map dated 1985
 Supersedes Salem and Marblehead North 1:25,000-scale maps dated 1970
 Selected hydrographic data compiled from NOS charts 13275 and 13276 (1981). This information is not intended for navigational purposes
 Projection and 1000-meter grid: Universal Transverse Mercator, zone 19
 10,000-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 6 meters south and 42 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

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 1 METER
 DEPTH CURVES AND SOUNDINGS IN METERS
 DATUM IS MEAN LOW WATER
 THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
 SHOULDER SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
 THE MEAN RANGE OF TIDE IS APPROXIMATELY 2.7 METERS

THIS MAP COMPLES WITH NATIONAL MAP ACCURACY STANDARDS

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9658
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 1983 Magnetic Declination (MD) at center of map	Diagram is approximate
0	0°
1	1°
2	2°
3	3°
4	4°
5	5°
6	6°
7	7°
8	8°

USGS NMD HISTORICAL MAP
 JUL 21 1985 FOR SALE BY U.S. GEOLOGICAL SURVEY
 RESTON, VIRGINIA 22092
 REC'D FILE COPY

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 gage; narrow gage	—
Bridge: drawbridge	—
Footbridge, overpass, underpass	—
Built-up area: only selected buildings shown	—
House; barn; church; school; large structures	—
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; forest section center	—
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 cave	—
Control: horizontal station; vertical station; spot elevation	—
Contour: 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	—
Submerged marsh; marsh, swamp	—
Land subject to controlled inundation; woodland	—
Soak, meadow	—
Orchard; vineyard	—