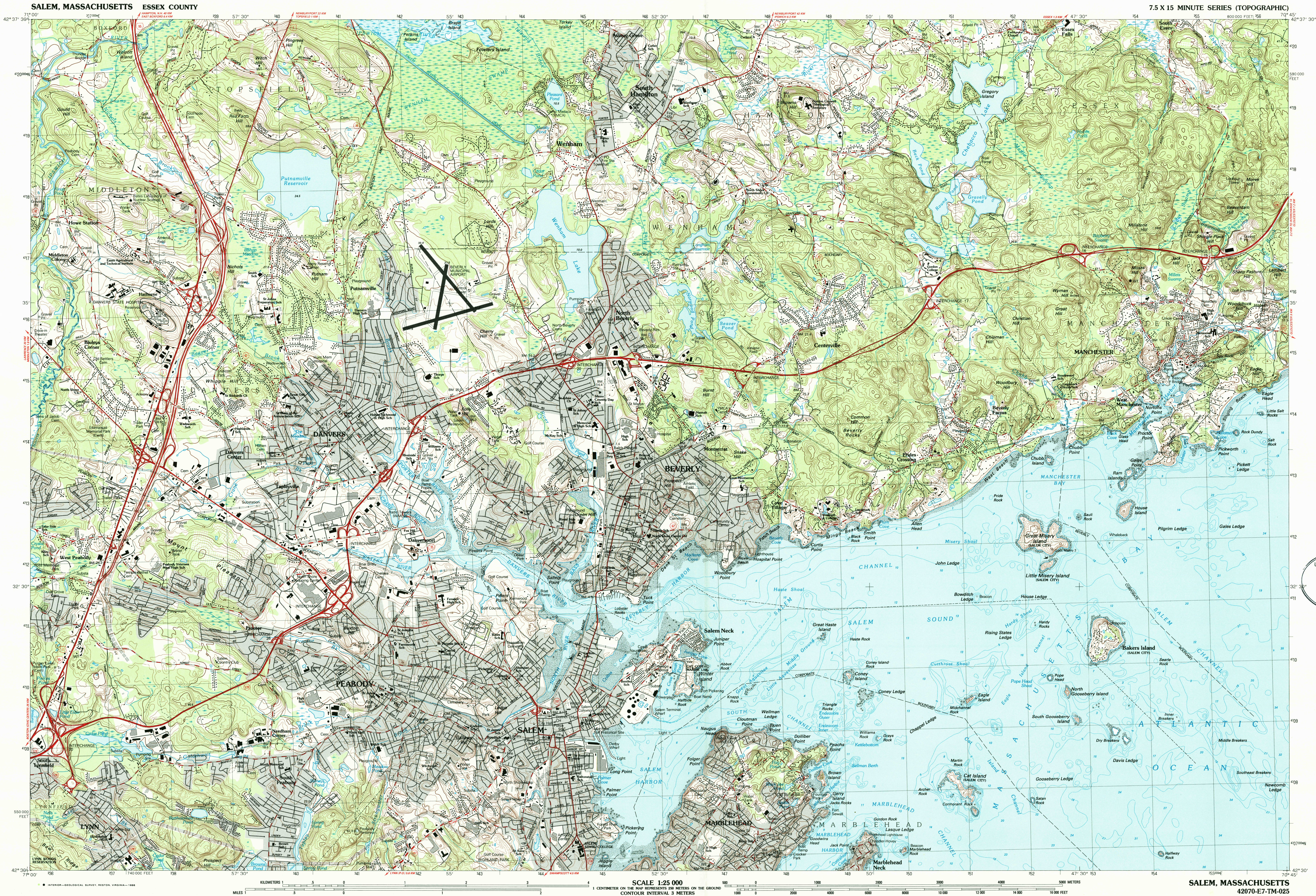
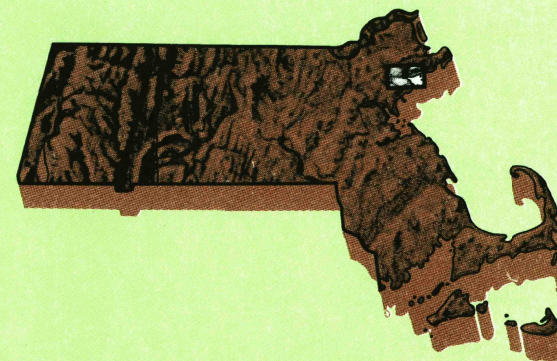




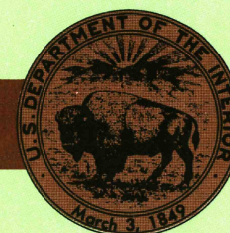
Salem MASSACHUSETTS

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 1976. Field checked 1979. Map edited 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
navigation 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 10 METER

DEPTH CURVES AND SOUNDINGS IN METERS

DATUM IS MEAN LOW WATER

THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE
OF MEAN HIGH WATER

THE MEAN RANGE OF TIDE IS APPROXIMATELY 2.7 METERS

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

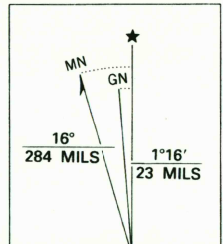
CONVERSION TABLE

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

To convert meters to feet
multiply by 3.2808

To convert feet to meters
divide by 3.2808

DECLINATION DIAGRAM



UTM grid convergence
(GN) and 1985 magnetic
declination (MD)
at center of map
Diagram is approximate

ADJOINING MAPS

1	2	3
4	5	6
7	8	

- 1 Lawrence
- 2 Ipswich
- 3 Rockport
- 4 Reading
- 5 Gloucester
- 6 Boston North
- 7 Lynn
- 8

USGS NMD HISTORICAL MAP

JUL 21 1985

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
- 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 part
- 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, isolated tower
- Dam; dam with lock
- Cemetery; grave
- Campground; picnic area; U.S. location monument
- Windmill; water well; spring
- Mine shaft; prospect; salt or cave
- Spot: horizontal station; vertical station; spot elevation
- Contours: index; intermediate; supplementary; depression
- Distorted surface: strip mine, levee, 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
- Scrub; mangrove
- Orchard; vineyard

A pamphlet describing topographic maps is available on request

SALEM, MASSACHUSETTS
42070-E7-TM-025

1985