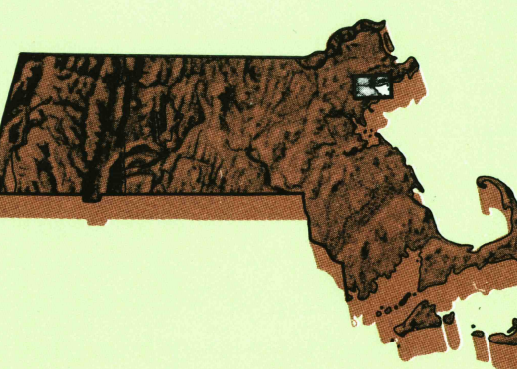


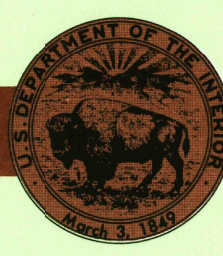
Salem
MASSACHUSETTS

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 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
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 0.5 METER
DEPTH CLURVES 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		DECLINATION DIAGRAM	ADJOINING MAPS		
Meters	Feet		1	2	3
1	3.2808		4	5	
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		UTM grid convergence (GN) and 1985 magnetic declination (MN) at center of map Diagram is approximate	1 Lawrence	2 Ipswich	3 Rockport
To convert feet to meters multiply by 0.3048			4 Reading	5 Gloucester	6 Boston North
			7 Lynn	8	



Topographic Map Symbols

Primary highway, hard surface	
Secondary highway, hard surface	
Light-duty road, hard or improved surface	
Unimproved road, trail	
Route marker: intersection, U.S. State	
Railroad, standard gage, narrow gage	
Bridge, drawbridge	
Footbridge, overpass, underpass	
Built-up area: only selected landmark buildings shown	
House, farm, 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; found 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, graves	
Campground, picnic area; U.S. location monument	
Windmill; water well; spring	
Mine shaft; prospect; adit or cave	
Control: horizontal station; vertical station; spot elevation	
Contours: index; intermediate; supplementary; depression	
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	

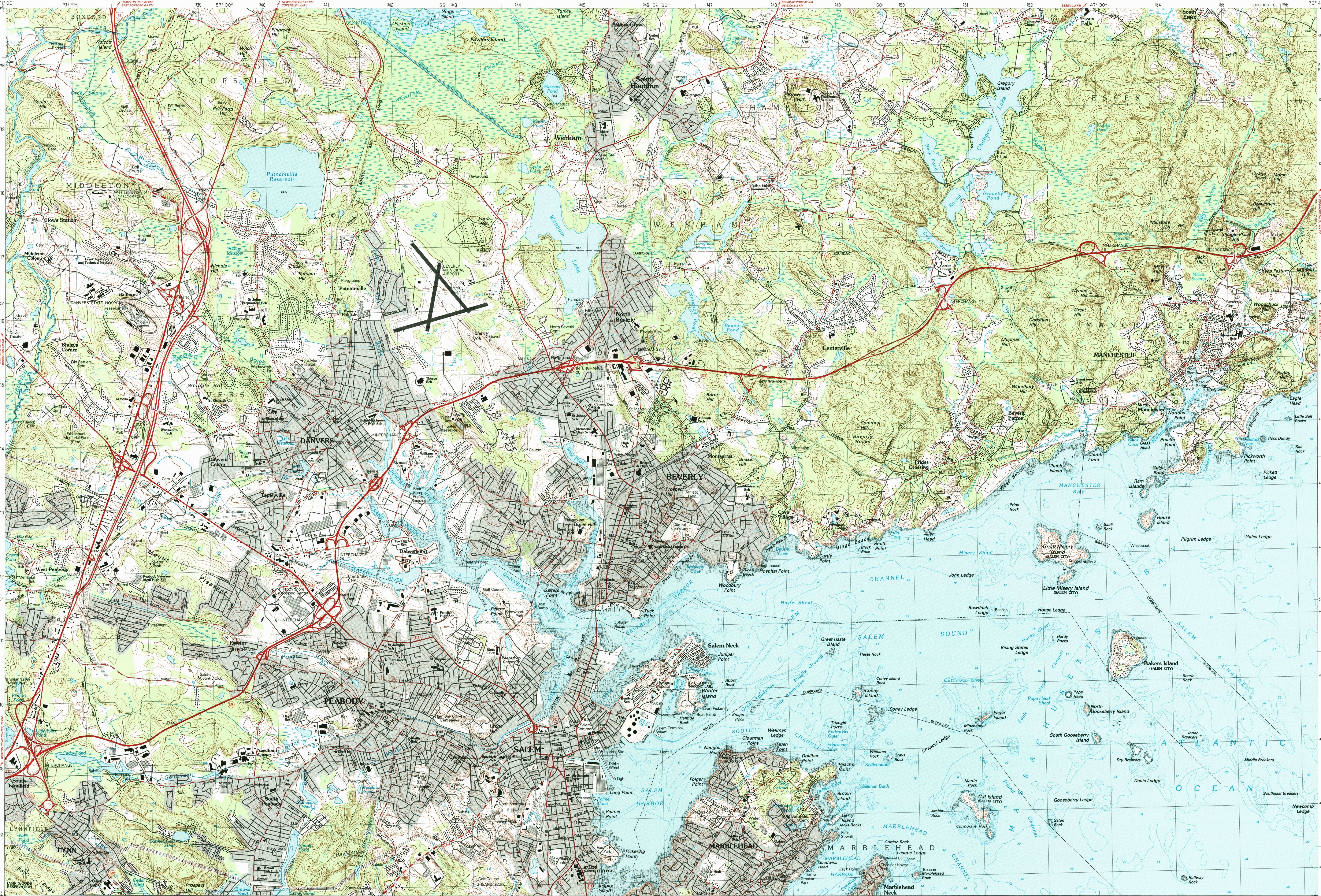
A pamphlet describing topographic maps is available on request
FOR SALE BY U.S. GEOLOGICAL SURVEY
P.O. BOX 23266, DENVER, COLORADO 80225



TOTAL RECOVERED FIER

SALEM, MASSACHUSETTS ESSEX COUNTY

7.5 X 15 MINUTE SERIES (TOPOGRAPHIC)



SCALE 1:25 000
1 CENTIMETER ON THE MAP REPRESENTS 250 METERS ON THE GROUND
CONTOUR INTERVAL 3 METERS

USGS NMD
HISTORICAL MAP ARCHIVES
42070-E7-TM-025
1985