

### GEOLOGIC SKETCH MAP OF NORTHEASTERN MASSACHUSETTS

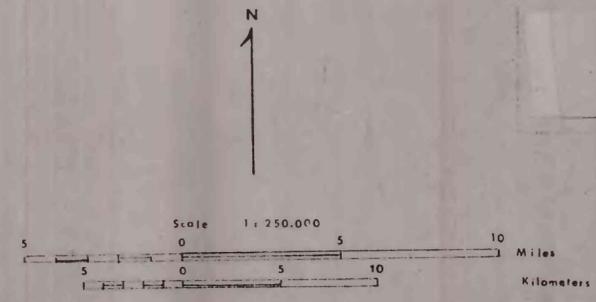
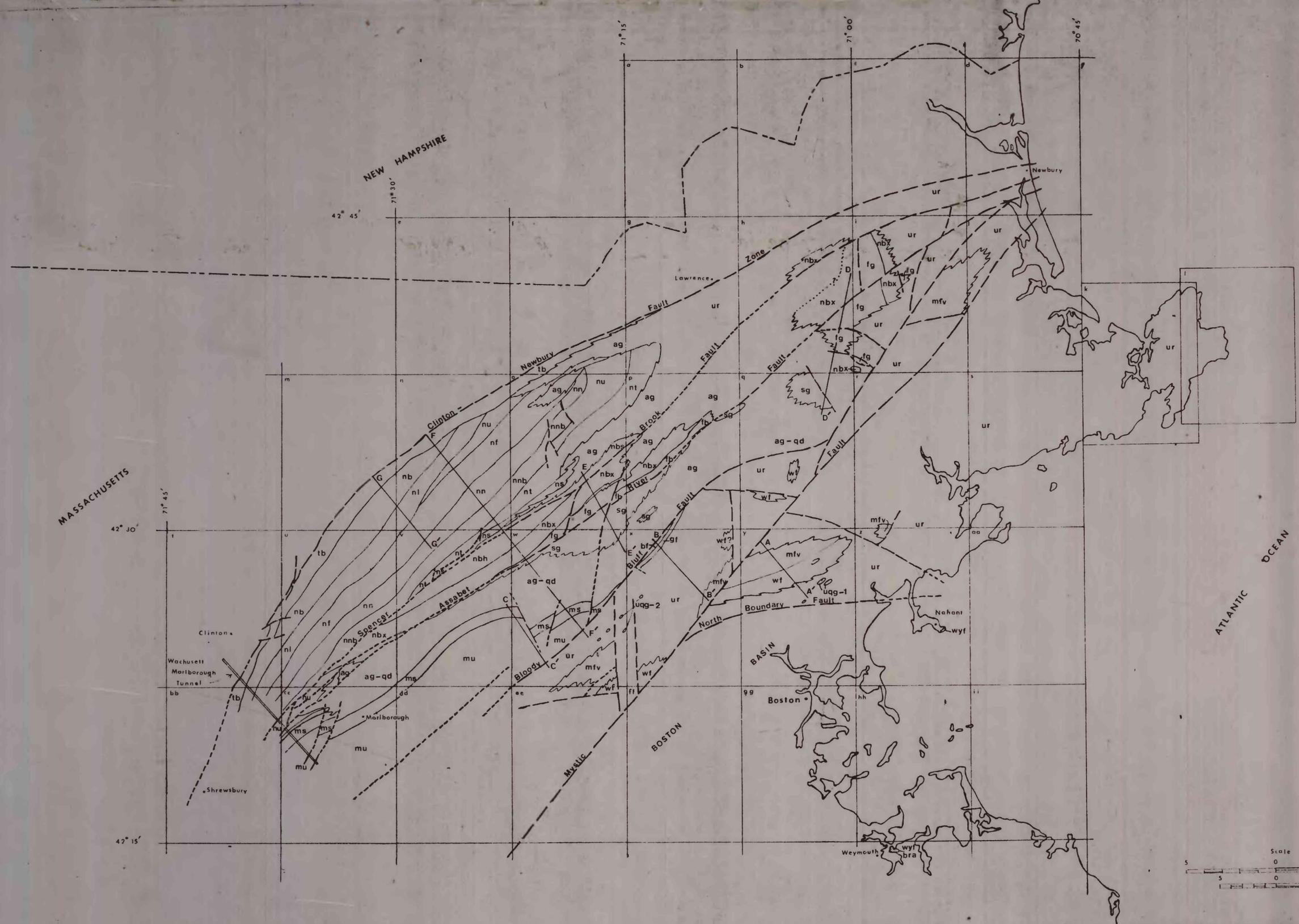
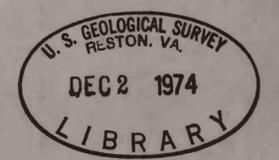
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This sketch map indicates belts and areas in which stratified rocks of pre-Silurian age are exposed; variable proportions of intrusive rocks in these belts and areas are not separated.

- tb Tadmuck Brook Schist
  - Nashoba Formation
    - nb Beaver Brook Member
    - nl Long Pond Member
    - nf Fort Pond Member
    - nn Nagog Pond Member
    - nbn Nashoba Brook Member
    - nt Tophet Swamp Member
    - ns Spencer Brook Member
    - nba Billerica Schist Member
    - nbh Bellows Hill Member
    - nbx Boxford Member
    - nu Nashoba, member not identified
  - fg Fish Brook Gneiss
  - sg Shawsheen Gneiss
  - Marlboro Formation
    - ms Sandy Pond Member
    - mu Marlboro, undivided
  - bf Burlington Formation
  - gf Greenleaf Mountain Formation
  - uqg-2, uqg-1 Remnants of unnamed quartzites and gneisses
  - mfv Middlesex Fells Volcanic Complex (ag Andover Granite)
  - wf Westboro Formation (ag-qd Andover Granite and quartz diorite)
  - bra Braintree Argillite (ur Undivided intrusive rocks and stratified rocks of Silurian or younger age)
  - wyf Weymouth Formation
- Quadrangles (7 1/2 minute). Keyed to letters in upper left corner

- |   |                  |   |                  |    |                  |
|---|------------------|---|------------------|----|------------------|
| a | Salem Depot      | m | Ayer             | y  | Boston North     |
| b | Haverhill        | n | Westford         | z  | Lynn             |
| c | Newburyport West | o | Billerica        | aa | Marblehead South |
| d | Newburyport East | p | Wilmington       | bb | Shrewsbury       |
| e | Nashua South     | q | Reading          | cc | Marlboro         |
| f | Lowell           | r | Salem            | dd | Frammingham      |
| g | Lawrence         | s | Marblehead North | ee | Natick           |
| h | South Groveland  | t | Clinton          | ff | Newton           |
| i | Georgetown       | u | Hudson           | g  | Boston South     |
| j | Ipswich          | v | Maynard          | hh | Hull             |
| k | Gloucester       | w | Concord          | ii | Nantasket        |
| l | Rockport         | x | Lexington        |    |                  |

- Contact of stratified rocks
- Intrusive contact
- Concealed contact
- Fault, mapped
- Fault, known from reconnaissance



U. S. Geological Survey  
 OPEN FILE MAP 74-356  
 This map is preliminary and has not been edited for conformity with Geological Survey standards or nomenclature.

Massachusetts (Northwest). Scale 1:250,000. 1974.