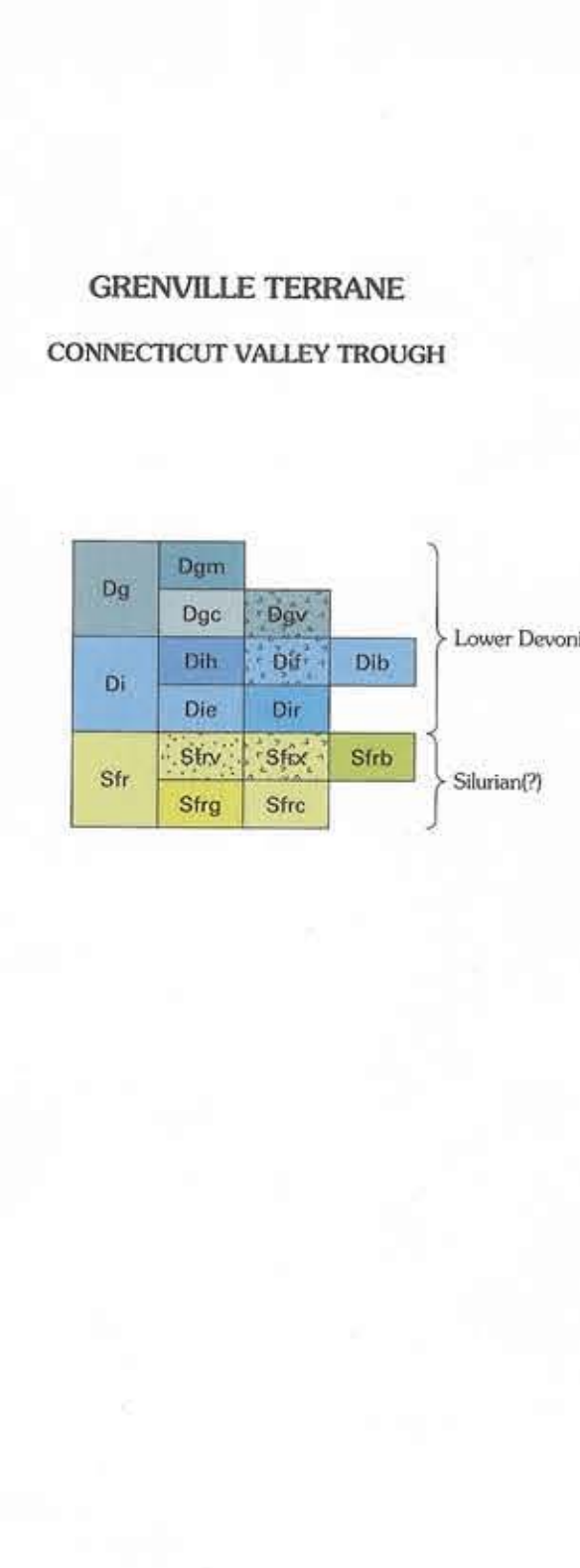
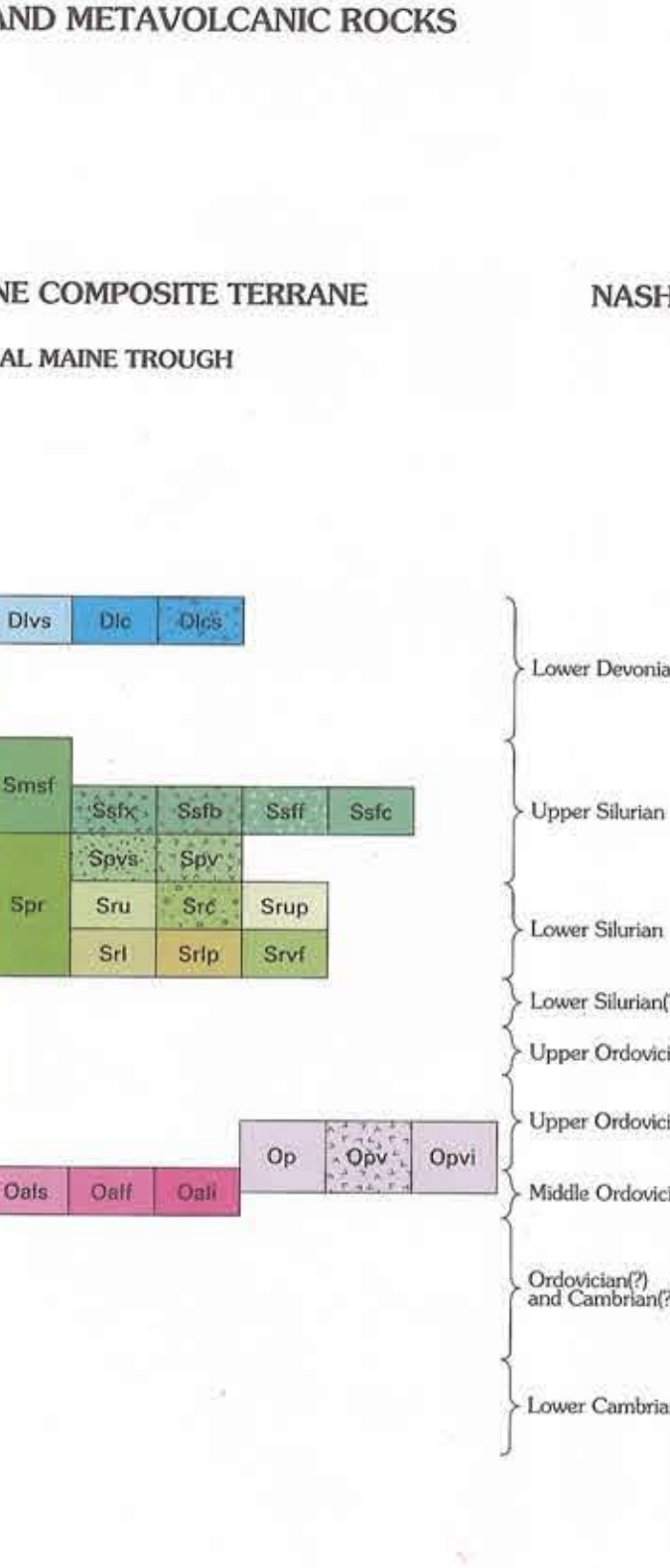


CORRELATION OF MAP UNITS

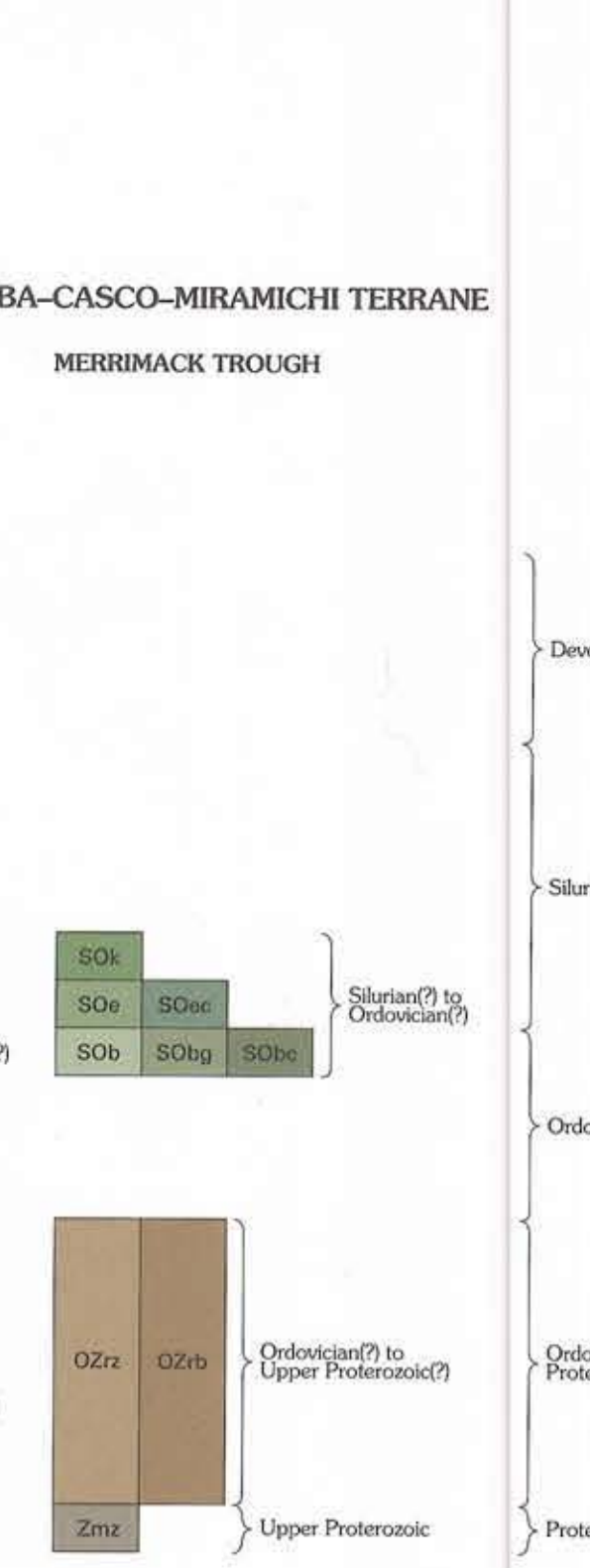
PLUTONIC AND ASSOCIATED VOLCANIC ROCKS



METASEDIMENTARY AND METAVOLCANIC ROCKS



EXPLANATION OF MAP SYMBOLS



PLUTONIC ROCK COMPOSITIONS



DESCRIPTION OF MAP UNITS

- PLUTONIC AND ASSOCIATED VOLCANIC ROCKS**
- These outlines of map units are in section on "Plutonic Rock Compositions." Note: Because of their relative scarcity and lithologic diversity, volcanic rocks in general have not been included on this modified Silliman (1973) sheet. The lithologic part of some former names has been changed in accordance with Silliman (1973).
- White Mountain Plutonic-Volcanic Suite (Cretaceous and Ancestral)**—Includes Cretaceous alkali syenite to quartz diorite, monzonite, monzonitic granite, and monzonitic diorite of the White Mountain Complex (Cretaceous); includes also monzonitic granite and monzonitic diorite of the White Mountain Complex (Eocene and Oligocene) and monzonitic granite and monzonitic diorite of the White Mountain Complex (Miocene and Pliocene).
- 100 Granite (Early Cretaceous)—Pink coarse-grained granite.
  - 101 Monzonite (Early Cretaceous)—Pink coarse-grained monzonite.
  - 102 Monzonitic granite (Early Cretaceous)—Pink coarse-grained monzonitic granite.
  - 103 Monzonitic diorite (Early Cretaceous)—Pink coarse-grained monzonitic diorite.
  - 104 Granite (Miocene)—Pink coarse-grained granite.
  - 105 Monzonite (Miocene)—Pink coarse-grained monzonite.
  - 106 Monzonitic granite (Miocene)—Pink coarse-grained monzonitic granite.
  - 107 Monzonitic diorite (Miocene)—Pink coarse-grained monzonitic diorite.
  - 108 Granite (Pliocene)—Pink coarse-grained granite.
  - 109 Monzonite (Pliocene)—Pink coarse-grained monzonite.
  - 110 Monzonitic granite (Pliocene)—Pink coarse-grained monzonitic granite.
  - 111 Monzonitic diorite (Pliocene)—Pink coarse-grained monzonitic diorite.
- Connecticut Valley Trough**
- 112 Metasedimentary rocks—Various lithologies, including sandstone, siltstone, shale, and conglomerate.
  - 113 Metavolcanic rocks—Various lithologies, including andesite, basalt, and rhyolite.
- CENTRAL MAINE COMPOSITE TERRANE**
- 114 Metasedimentary rocks—Various lithologies, including sandstone, siltstone, shale, and conglomerate.
  - 115 Metavolcanic rocks—Various lithologies, including andesite, basalt, and rhyolite.
- NASHOBA-CASCO-MIRAMICHI TERRANE**
- 116 Metasedimentary rocks—Various lithologies, including sandstone, siltstone, shale, and conglomerate.
  - 117 Metavolcanic rocks—Various lithologies, including andesite, basalt, and rhyolite.
- METASEDIMENTARY AND METAVOLCANIC ROCKS OF THE CONNECTICUT VALLEY TROUGH**
- 118 Metasedimentary rocks—Various lithologies, including sandstone, siltstone, shale, and conglomerate.
  - 119 Metavolcanic rocks—Various lithologies, including andesite, basalt, and rhyolite.
- METASEDIMENTARY AND METAVOLCANIC ROCKS OF THE CENTRAL MAINE TROUGH**
- 120 Metasedimentary rocks—Various lithologies, including sandstone, siltstone, shale, and conglomerate.
  - 121 Metavolcanic rocks—Various lithologies, including andesite, basalt, and rhyolite.
- METASEDIMENTARY AND METAVOLCANIC ROCKS OF THE NASHOBA-CASCO-MIRAMICHI TROUGH**
- 122 Metasedimentary rocks—Various lithologies, including sandstone, siltstone, shale, and conglomerate.
  - 123 Metavolcanic rocks—Various lithologies, including andesite, basalt, and rhyolite.
- PLUTONIC ROCKS OF THE CONNECTICUT VALLEY TROUGH**
- 124 Granite (Early Devonian)—Pink coarse-grained granite.
  - 125 Monzonite (Early Devonian)—Pink coarse-grained monzonite.
  - 126 Monzonitic granite (Early Devonian)—Pink coarse-grained monzonitic granite.
  - 127 Monzonitic diorite (Early Devonian)—Pink coarse-grained monzonitic diorite.
- PLUTONIC ROCKS OF THE CENTRAL MAINE TROUGH**
- 128 Granite (Early Devonian)—Pink coarse-grained granite.
  - 129 Monzonite (Early Devonian)—Pink coarse-grained monzonite.
  - 130 Monzonitic granite (Early Devonian)—Pink coarse-grained monzonitic granite.
  - 131 Monzonitic diorite (Early Devonian)—Pink coarse-grained monzonitic diorite.
- PLUTONIC ROCKS OF THE NASHOBA-CASCO-MIRAMICHI TROUGH**
- 132 Granite (Early Devonian)—Pink coarse-grained granite.
  - 133 Monzonite (Early Devonian)—Pink coarse-grained monzonite.
  - 134 Monzonitic granite (Early Devonian)—Pink coarse-grained monzonitic granite.
  - 135 Monzonitic diorite (Early Devonian)—Pink coarse-grained monzonitic diorite.

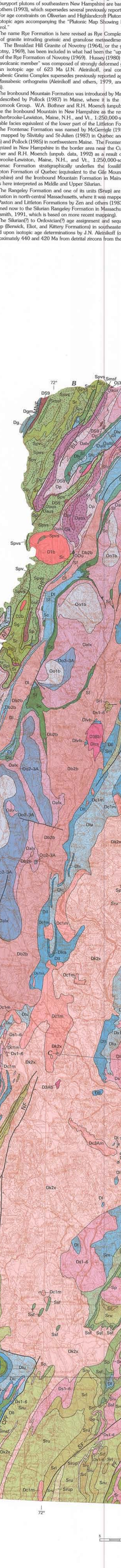
EXPLANATION OF MAP SYMBOLS

- FAULTS**
- Normal fault—Dashed line with ticks on downthrown side. Dotted line with ticks on upthrown side. Strike-slip fault—Dashed line with triangles on both sides. Thrust or reverse fault—Dashed line with triangles on downthrown side. Oblique-slip fault—Dashed line with triangles on one side and ticks on the other.
- FOLDS**
- Anticline—Dashed line with ticks on concave-up side. Syncline—Dashed line with ticks on concave-down side. Unconformity—Dashed line with irregular surface. Discontinuity—Dashed line with irregular surface.
- OTHER FEATURES**
- Unconformity—Dashed line with irregular surface. Discontinuity—Dashed line with irregular surface.
- METASEDIMENTARY AND METAVOLCANIC ROCKS OF THE CONNECTICUT VALLEY TROUGH**
- 118 Metasedimentary rocks—Various lithologies, including sandstone, siltstone, shale, and conglomerate.
  - 119 Metavolcanic rocks—Various lithologies, including andesite, basalt, and rhyolite.
- METASEDIMENTARY AND METAVOLCANIC ROCKS OF THE CENTRAL MAINE TROUGH**
- 120 Metasedimentary rocks—Various lithologies, including sandstone, siltstone, shale, and conglomerate.
  - 121 Metavolcanic rocks—Various lithologies, including andesite, basalt, and rhyolite.
- METASEDIMENTARY AND METAVOLCANIC ROCKS OF THE NASHOBA-CASCO-MIRAMICHI TROUGH**
- 122 Metasedimentary rocks—Various lithologies, including sandstone, siltstone, shale, and conglomerate.
  - 123 Metavolcanic rocks—Various lithologies, including andesite, basalt, and rhyolite.
- PLUTONIC ROCKS OF THE CONNECTICUT VALLEY TROUGH**
- 124 Granite (Early Devonian)—Pink coarse-grained granite.
  - 125 Monzonite (Early Devonian)—Pink coarse-grained monzonite.
  - 126 Monzonitic granite (Early Devonian)—Pink coarse-grained monzonitic granite.
  - 127 Monzonitic diorite (Early Devonian)—Pink coarse-grained monzonitic diorite.
- PLUTONIC ROCKS OF THE CENTRAL MAINE TROUGH**
- 128 Granite (Early Devonian)—Pink coarse-grained granite.
  - 129 Monzonite (Early Devonian)—Pink coarse-grained monzonite.
  - 130 Monzonitic granite (Early Devonian)—Pink coarse-grained monzonitic granite.
  - 131 Monzonitic diorite (Early Devonian)—Pink coarse-grained monzonitic diorite.
- PLUTONIC ROCKS OF THE NASHOBA-CASCO-MIRAMICHI TROUGH**
- 132 Granite (Early Devonian)—Pink coarse-grained granite.
  - 133 Monzonite (Early Devonian)—Pink coarse-grained monzonite.
  - 134 Monzonitic granite (Early Devonian)—Pink coarse-grained monzonitic granite.
  - 135 Monzonitic diorite (Early Devonian)—Pink coarse-grained monzonitic diorite.

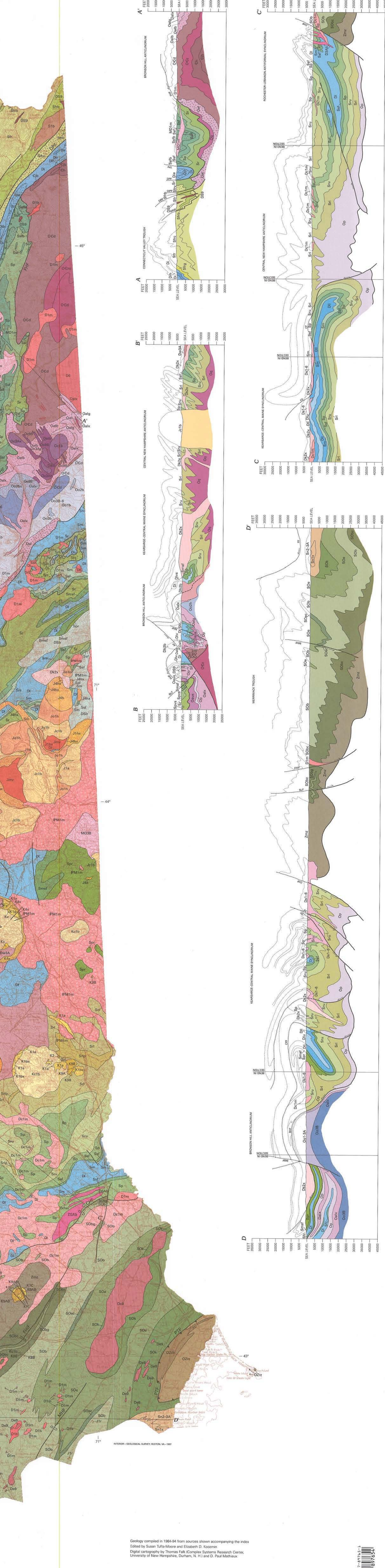
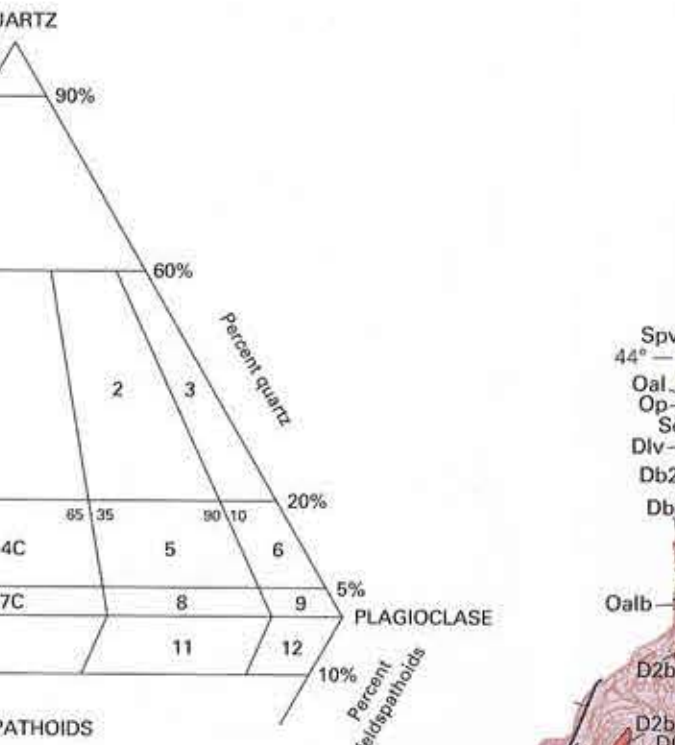
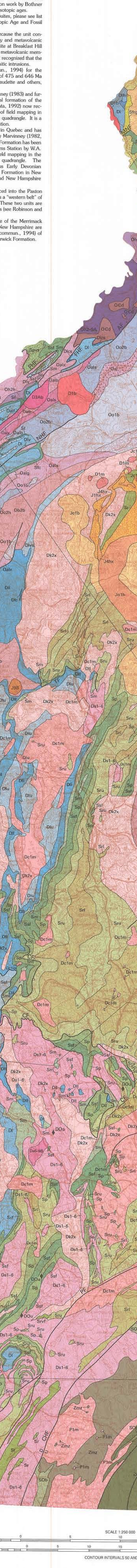
PLUTONIC ROCK COMPOSITIONS



EXPLANATION OF MAP SYMBOLS



PLUTONIC ROCK COMPOSITIONS



BEDROCK GEOLOGIC MAP OF NEW HAMPSHIRE

By  
John B. Lyons<sup>1</sup>, Wallace A. Bohner<sup>2</sup>, Robert H. Moench<sup>3</sup>, and James B. Thompson, Jr.<sup>4</sup>

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<sup>2</sup>U.S. Geological Survey, Reston, Virginia  
<sup>3</sup>U.S. Geological Survey, Reston, Virginia  
<sup>4</sup>U.S. Geological Survey, Reston, Virginia

Geology compiled in 1988 from sources shown accompanying the index. Geology mapped by John B. Lyons, Wallace A. Bohner, Robert H. Moench, and James B. Thompson, Jr. in 1988. Original geologic map by Eugene L. Boudrette, 1952. Modified by Eugene L. Boudrette, 1952; Gordon P. Eaton, 1952; Thomas A. Goff, 1961; James B. Thompson, Jr., 1961; and James B. Thompson, Jr., 1961. All rights reserved. No part of this publication may be reproduced without permission of the U.S. Government.

U.S. GEOLOGICAL SURVEY AND STATE OF NEW HAMPSHIRE