


# GENERALIZED BEDROCK GEOLOGIC MAP OF NEW HAMPSHIRE


## EXPLANATION

### IGNEOUS ROCKS


**TRIASSIC-CRETACEOUS (245 - 150 Ma\*)**


 White Mountain Plutonic-Volcanic Succession

**CARBONIFEROUS-PERMIAN (360 - 245)**


 Dominantly two-mica granite

**DEVONIAN (410 - 360)**


 a New Hampshire Plutonic Succession

 b (a) Abundant two-mica granite


 c (b) Quartz diorite and granodiorite

 (c) Quartz diorite

**SILURIAN (440 - 410)**


 Granite, tonalite, and granodiorite of the northern and coastal successions

**ORDOVICIAN (500 - 440)**

 Highlandcroft and Oliverian calc-alkalic plutonic successions

### METAMORPHIC ROCKS


**DEVONIAN (~400)**

 Slate, phyllite, aluminous schist, local calc-silicate, granofels, and bimodal metavolcanic rocks

**SILURIAN (~430)**

 Aluminous schist, quartzite, calc-silicate granofels, and bimodal metavolcanic rocks


**CAMBRIAN-SILURIAN (520 - 430)**

 w Upper, phyllite and calcareous schist; lower, bimodal metavolcanic rocks in the west (w). Calc-silicate and biotite granofels, phyllonite, and local aluminous or carbonaceous phyllite and schist in the east (e)

 e

### UNDIFFERENTIATED METAMORPHIC AND IGNEOUS ROCKS

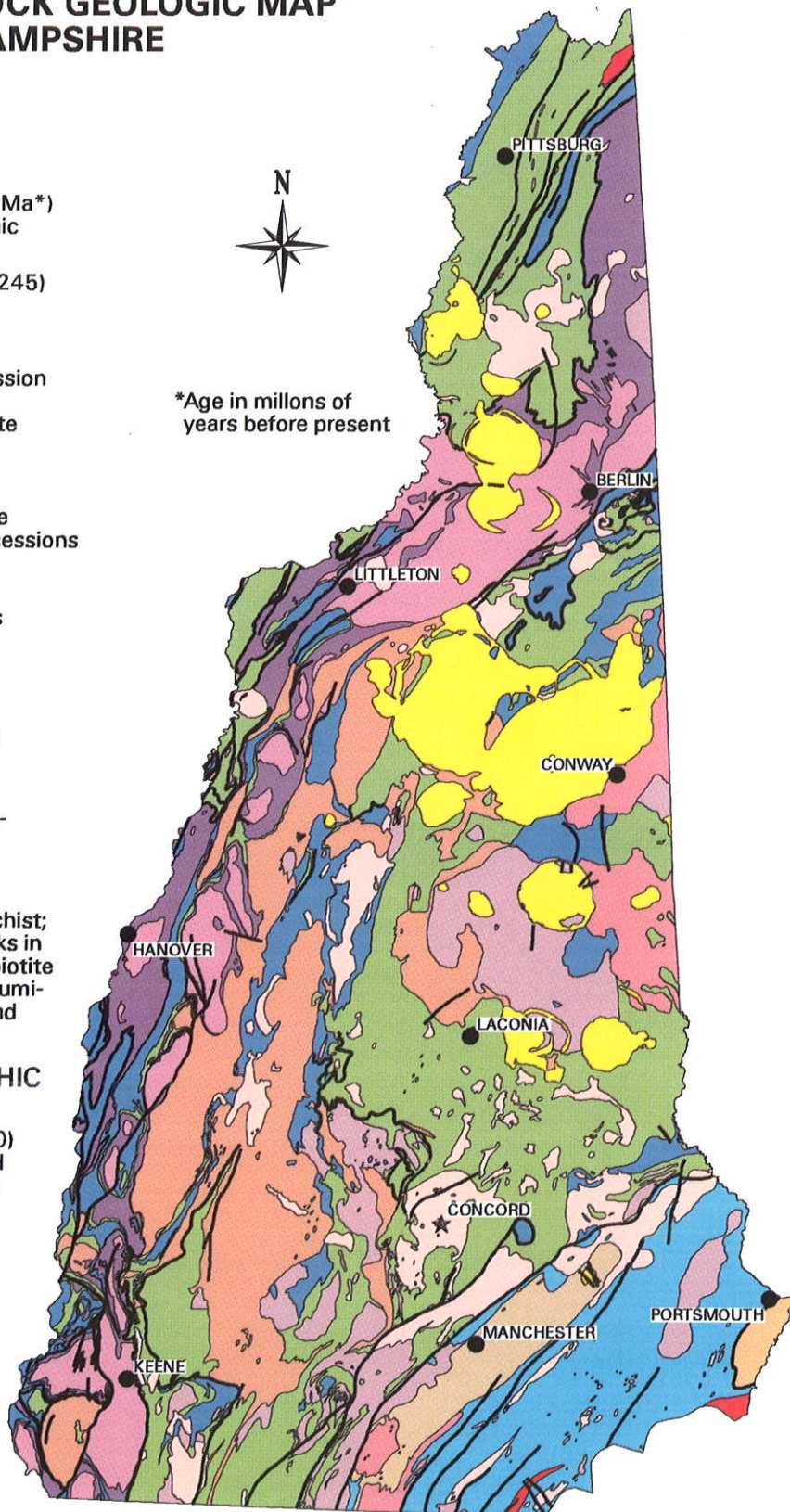
**PRECAMBRIAN-ORDOVICIAN (>450)**

 m Rocks of the Massabesic (m) and Rye (r) massifs. Migmatite, calc-silicate and biotite granofels, metavolcanic rocks, and phyllite and schist, locally intruded by calc-alkalic granite in (r), the rocks of the latter characteristically cataclastic compared to those of (m)

 r

 FAULTS

 CONTACTS



\*Age in millions of years before present

Adapted from Lyons and others, 1997, Bedrock geologic map of New Hampshire: U.S. Geological Survey, Reston, VA, State Geologic Map, 2 sheets, scale 1:250,000 and 1:500,000, by W.A. Bothner and E.L. Boudette.

