

EXPLANATION

Layered rocks including volcanic rocks
but excluding granitic gneisses



Portland Formation and related volcanic
rocks of the Connecticut Valley



Silurian and Devonian rocks, undivided;
includes Fitch Formation, Clough Quartz-
ite, and Littleton, Erving, Gile Mountain,
and Waits River Formations



Ammonoosuc Volcanics; includes Quimby
and Partridge Formations, southwestern
New Hampshire



Dead River Formation (New Hampshire)



Other Ordovician rocks, undivided
(southwestern New Hampshire)



Metasedimentary and metavolcanic rocks



Intrusive rocks including
orthogneisses



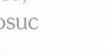
White Mountain Plutonic-Volcanic Suite



New Hampshire Plutonic Series;
felsic to intermediate plutonic rocks,
mostly gneissic



Highlandcroft Plutonic Suite



Oliverian Plutonic Suite;
mostly calc-alkaline granite and gneiss in
cores of Oliverian and related domes;
includes larger masses of Ammonoosuc
trondhjemite (names of individual
domes indicated by letter symbol)



Gneiss in cores of domes



CRETACEOUS
TO
TRIASSIC

Unconformity

DEVONIAN
TO
SILURIAN

Unconformity

SILURIAN(?)
TO
ORDOVICIAN

ORDOVICIAN

Unconformity

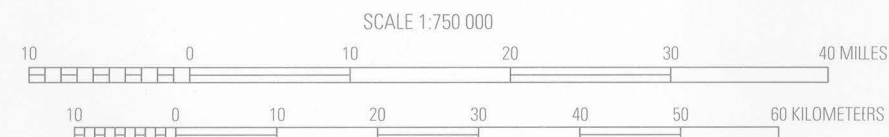
LATE
PROTEROZOIC

Letter symbols for Oliverian and other domes (plutons or place names where appropriate) are listed generally north to south. Names of domes or plutons not referred to in text, as well as the geology east and west of the Ammonoosuc Volcanics, are mainly omitted.

- J Jefferson dome
- SH Sugar Hill pluton
- LD Landaff pluton
- ML Moody Ledge plutons
- OH Owls Head dome
- BP Baker Pond pluton
- SM Smarts Mountain dome
- M Mascoma dome
- L Lebanon dome
- WRJ Ammonoosuc trondhjemite intruding Ammonoosuc Volcanics near White River Junction, VT
- PL Trondhjemite-tonalite northeast of Plainfield, NH
- C Croydon dome
- U Unity dome
- A Alstead dome
- K Keene dome (Swanzy Gneiss)
- V Vernon dome
- W Warwick dome
- Mo Monson Gneiss
- P Pelham dome
- G Glastonbury dome
- Ki Killingworth dome

- Contact
- Fault—U, upthrown side; D, downthrown side

Base from U.S. Geological Survey 1:1,000,000 New Hampshire and Vermont, 1975, and Massachusetts, Rhode Island, and Connecticut, 1975



Geology adapted from Robinson and Hall (1980, fig. 1) and Billings (1955)

GEOLOGIC SETTING OF THE BRONSON HILL ANTICLINORIUM, EMPHASIZING THE OLIVERIAN DOMES AND THE AMMONOOSUC VOLCANICS