

?Emb - Manhattan Schist, Member B - A discontinuous unit of amphibolite with some interbedded schist. It occurs within Member C of the Manhattan Schist and locally at the base of Member C.

Allochthonous Rocks East of Cameron's Line

O6hr - Harrison Gneiss - Dark-gray biotite and/or hornblende-quartz-feldspar gneiss with subordinate quartz. Megacrysts of feldspar are abundant locally.

O6hts - Hartland Formation, Schist and Granulite Member - Brown to brownish-tan-weathering, garnet-muscovite-biotite-quartz-feldspar schist and muscovite-biotite-quartz-feldspar gneiss and granulite. The schist commonly contains sillimanite and/or kyanite.

Ou - Green serpentinite bodies that are within the Schist and Granulite Member.

O6htw - Hartland Formation, White Gneiss Member - Light-gray or white biotite-muscovite quartz-feldspar gneiss with local garnet. Probably a granitic intrusive sheet.

O6htcp - Hartland Formation, Carrington's Pond Member - Brown- or rusty-weathering, garnet-muscovite-biotite schist with local sillimanite and or kyanite. Amphibolite beds are fairly common.

O6hta - A mappable amphibolite horizon (or horizons?) within the Carrington's Pond.

# Glenville Quadrangle Bedrock Geology Map 9 w/Explanation

Leo M. Hall

Explanation

Map

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BRIEF DESCRIPTIONS OF ROCK UNITS IN THE GLENNVILLE QUADRANGLE, CONNECTICUT

Autochthonous Rocks

Oma - Manhattan Schist, Member A - Dark-gray or gray, fissile, sillimanite-garnet-muscovite-biotite schist that is rusty-weathering in places. Contains dark-bluish-gray quartzite beds; calcareous schists and phlogopitic marble beds are locally present at the base.

Omam - Manhattan Schist, Marble Member - Tan-weathering phlogopitic calcite marble and some white calcite marble beds.

UNCONFORMITY

O6i - Inwood Marble - Various clean dolomitic marbles.

E1 - Lowerre Quartzite - Tan or buff-weathering feldspathic quartzite and granulite, micaceous quartzite and glassy quartzite. Dark-gray, brownish-weathering granulite and schists that commonly contain sillimanite are locally present at the base and resemble rocks in Member C of the Manhattan Schist.

UNCONFORMITY

pEy - Yonkers Gneiss - Pink biotite quartz microcline gneiss that is locally hornblendic. Amphibolite layers are locally present. Possibly intrusive granite or metamorphosed felsic volcanics.

pEfg - Fordham Gneiss, Garnet-Biotite Gneiss Member - Interbedded gray, garnet-biotite gneiss, biotite-hornblende gneiss and amphibolite.

pEfamp - Fordham Gneiss, Amphibolite-Gneiss Member - Predominantly amphibolite with some gray biotite-quartz-feldspar gneiss beds.

pEfcs - Fordham Gneiss, Calc-silicate Member - Light-gray, brown, or white calc-silicate rocks which contain abundant green diopside and varied amounts of calcite, marble beds are present locally.

pEfam - Fordham Gneiss, Amphibolite Member - Black amphibolite.

pEfhg - Fordham Gneiss, Hornblende Gneiss Member - Gray to dark-gray biotite-hornblende-gneiss with amphibolite beds commonly present. Pink granitic gneisses are present and are extensive enough to be mapped separately in some places.

pEf - Fordham Gneiss - Undivided gneisses.

Allochthonous Rocks West of Caeron's Line

?Emc - Manhattan Schist, Member C - Predominantly brown-weathering, feldspathic, sillimanite-garnet-muscovite-biotite schist or schistose gneiss, sillimanite nodules are common. Although siliceous beds are present in places bedding is typically difficult to identify.

# EXPLANATION

## ROCK UNITS

