

NEW MILFORD QUADRANGLE

Progress Report

1975 Field Season

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INTRODUCTION

During the 1975 field season, the rocks to the west of the carbonate valley and east of Candlewood Lake were mapped. Also, the area from the south end of Candlewood Mountain to the north end of Boardman Mountain was mapped.

ROCK UNITS

To date, fourteen rock units have been delineated in the New Milford quadrangle. All the units west of the main carbonate valley are believed to be Precambrian in age except the marble, brown weathering biotite-quartz-sillimanite quartzite and schist and the medium gray to buff feldspar-biotite-quartz gneiss making up most of Candlewood Mountain, Pine Knob and Boardman Mountain. Eleven of the rock units were described in my 1973 and 1974 progress reports.

The fine grained pink and black to white and black banded feldspathic gneiss may be the same unit as the coarse grained feldspathic gneiss. Both are interbedded with a biotite-quartz-feldspar gneiss. However, the one feldspathic gneiss contains coarser grained feldspar and small feldspar-quartz-tourmaline pegmatite bodies (up to 30 feet across). The pegmatite bodies are absent in the finer grained gneiss.

The feldspar-biotite-quartz gneiss unit is a medium to coarse grained, well foliated, medium gray to buff colored feldspar-biotite-quartz gneiss. This unit contains many patches of marble and the brown weathering biotite-quartz-sillimanite quartzite and schist up to about 100 feet across. This unit is an intrusive that is younger than the quartzite and marble. It can be seen clearly cutting across the quartzite at the entrance to a small cave on the southwest side of Boardman Mountain. The patches of quartzite and marble in this gneiss are believed to be xenoliths.

FUTURE WORK

I will complete the bedrock map of the New Milford quadrangle by the end of the 1976 field season. In the fall of 1976 I would like to begin a detailed petrographic study of the units in this quadrangle, and if my petrographic study indicates the need for more detailed study of interesting and/or unusual phases, assemblages or zoned minerals, I would like to follow this up with x-ray, spectrographic and/or electron microprobe studies.