Open Report

STATE OF CONNECTICUT
GEOLOGICAL AND NATURAL HISTORY SURVEY
JOE WEBB PEOPLES, DIRECTOR

QUADRANGLE REPORT NO. 17
Plate 1

GEOLOGIC MAP OF THE WEST TORRINGTON QUADRANGLE, CONNECTICUT

BEDROCK GEOLOGY BY ROBERT M. GATES, 1949, 1960-2
AND NIKOLAS I. CHRISTENSEN, 1960-62

EXPLANATION

MIDDLE PALEOZOIC

tg — **Tyler Lake Granite**
Massive, white, fine-to medium-grained granite composed of quartz, microcline, plagioclase, and mica. Granulation and cataclastic characteristic. Granite near Torrington gneissic and locally pink.

MIDDLE PALEOZOIC (?)

hog hot hoa — **Hodges Mafic Complex**

hog — *Dark, massive, medium-grained rock composed of tabular to subrounded grains of hornblende and plagioclase and subordinate biotite and quartz.*

hot — *Intermixed and intergradational hornblende gabbro and amphibolite.*

hoa — *Fine-to medium-grained, well foliated amphibolite composed of hornblende and plagioclase with subordinate biotite, quartz, chlorite, clinozoisite, sphene, ilmenite, and magnetite.*

○ Ultrabasic intrusives

● Brookfield Diorite Gneiss

LOWER PALEOZOIC

ha hb hc — **Hartland Formation**

ha — *Light-gray, fine-to medium-grained, mica-quartz plagioclase granulite. The mica either disseminated or in thin folia or layers.*

hb — *Coarse-grained muscovite-quartz schist with large porphyroblasts of garnet, staurolite, plagioclase, and biotite.*

hc — *Thinly interlayered mica-plagioclase-quartz granulite and mica-plagioclase-quartz schist. Schist layers commonly with small garnet and staurolite crystals.*

x — *Coarse staurolite schist.*

LOWER PALEOZOIC (?)

w — **Waramaug Formation**
Rusty-weathering quartz-plagioclase-biotite gneiss together with sillimanite-garnet-quartz-plagioclase-biotite gneiss. These rocks are intermixed and intergrade. Sillimanite and garnet produce a nubby weathered surface.

PRECAMBRIAN (?)

bgc — **Gneiss Complex of the Berkshire Highlands**
Rock types include 1) fine-to medium-grained, banded to massive granitic gneiss, 2) rusty-weathering biotitic quartzo-feldspathic gneiss, 3) mafic hornblende-biotite-plagioclase-quartz gneiss, and 4) amphibolite. (Two thin layers of type 2 are indicated by the special symbol.)

- Abandoned quarry or mine
- Formational contact
- Intraformational contact
- Probable fault?
- Hypothetical fault
- Outcrop areas
- 50 Strike and dip of foliation
- Strike of vertical foliation
- 20 Bearing and plunge of lineation
- 20 Secondary lineation

Base map by U. S. Geological Survey

Control by USGS, USC&GS, Columbia University, and Connecticut Geodetic Survey

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1944. Field check 1948
Revised 1956

Polyconic projection. 1927 North American datum
10,000-foot grid based on Connecticut coordinate system

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13° TRUE NORTH MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1956

SCALE 1:24000
1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

CONNECTICUT
QUADRANGLE LOCATION

WEST TORRINGTON, CONN.
N4145—W7307.5/7.5

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SECTION ALONG LINE A-A'