West Torrington Rodgers Bedrock Compilation Sheet (paper)

Map

NOTICE !

Bedrock quadrangle 1:24,000 scale compilation sheets for the Bedrock Geological Map of Connecticut, John Rodgers, 1985, Connecticut Geological and Natural History Survey, Department of Environmental Protection, Hartford, Connecticut, in Cooperation with the U.S. Geological Survey, 1:125,000 scale, 2 sheets. [minimum 116 paper quad compilations with mylar overlays constituting the master file set for geologic lines and units compiled to the State map, some quads have multiple sheets depicting iterations of mapping]. Compilations drafted by Nancy Davis, Craig Dietsch, and Nat Gibbons under the direction of John Rodgers.

Geologic unit designation table translates earlier map unit nomenclature to the units ultimately used in the State publication.

This map set contains unpublished maps, cross- sections, and related information archived by the State Geological and Natural History Survey of Connecticut as part of the Survey Library Collection.

These materials have not been reviewed for accuracy, consistency, or completeness. For many geographic areas, more current information exists, either in published or unpublished form.

These materials were developed under research and mapping agreements between the State Geological Survey and individual scientists, academic institutions, or graduate students. The veracity of the information contained within these documents is the responsibility of the authorship. The State Geological and Natural History Survey of Connecticut, does not promote or endorse this content, nor does the State Survey attest as to its level of accuracy.

These materials have been preserved under a cooperative agreement between the State Geological Survey and the US Geological Survey as part of the National Geological and Geophysical Data Preservation Program. www.datapreservation.usgs.gov

These materials are offered in the spirit of open government. Reproduction of these manuscripts was conducted to the highest practical degree, within the parameters of the funding mechanism. Original documents are available for inspection by contacting the Connecticut State Geologist.

Generalized dips and strikes

Red line indicates zone (100–1,000 meters wide?) in which fractured rock is probable especially

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

QUADRANGLE REPORT NO. 17
Plate 1

(SOUTH CANAAN) (NORFOLK) (WINSTED) (CORNWALL) (TORRINGTON) (NEW PRESTON) (LITCHFIELD) (THOMASTON)

73°15′ 12′30″ 10′ 490 000 FEET 73°07′30″
41°52′30″ 50′ 47′30″ 370 000 FEET 340 000 FEET 41°45′
A A′

EXPLANATION

MIDDLE PALEOZOIC

tg — Tyler Lake Granite

Massive, white, fine-to medium-grained granite composed of quartz, microcline, plagioclase, and mica. Granulation and cataclasis 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 quartzofeldspathic 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

GEOLOGIC MAP OF THE WEST TORRINGTON QUADRANGLE, CONNECTICUT

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

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

13° MAGNETIC NORTH TRUE NORTH
APPROXIMATE MEAN DECLINATION, 1956

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

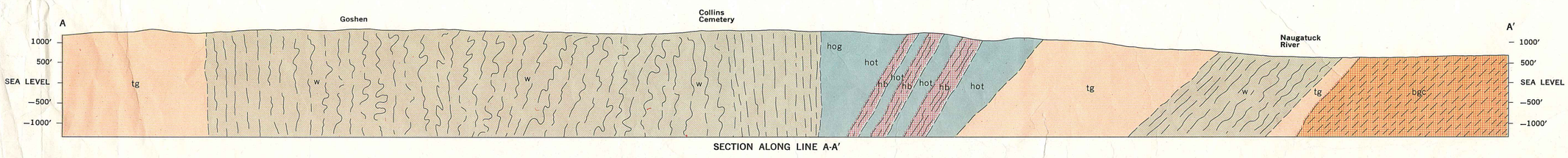
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

CONNECTICUT
QUADRANGLE LOCATION

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

Geology engraved and printed by A. Hoen & Co., Inc.
INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1958
M R-4015

SECTION ALONG LINE A-A′



Generalized dip + strike of bedding in plutons

Vertical foliation

33