

Torrington Rodgers Bedrock Compilation Sheet 2 (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.

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15 June 1970

Generalized dip & strike
of foliation

Red lines, areas of
excessive fracturing

STATE OF CONNECTICUT
GEOLOGICAL AND NATURAL HISTORY SURVEY
BOE W. HARTFORD, DIRECTOR
(WINSTED)

QUADRANGLE REPORT NO. 25
PLATE 1
530,000 FEET

(NEW HARTFORD)

EXPLANATION

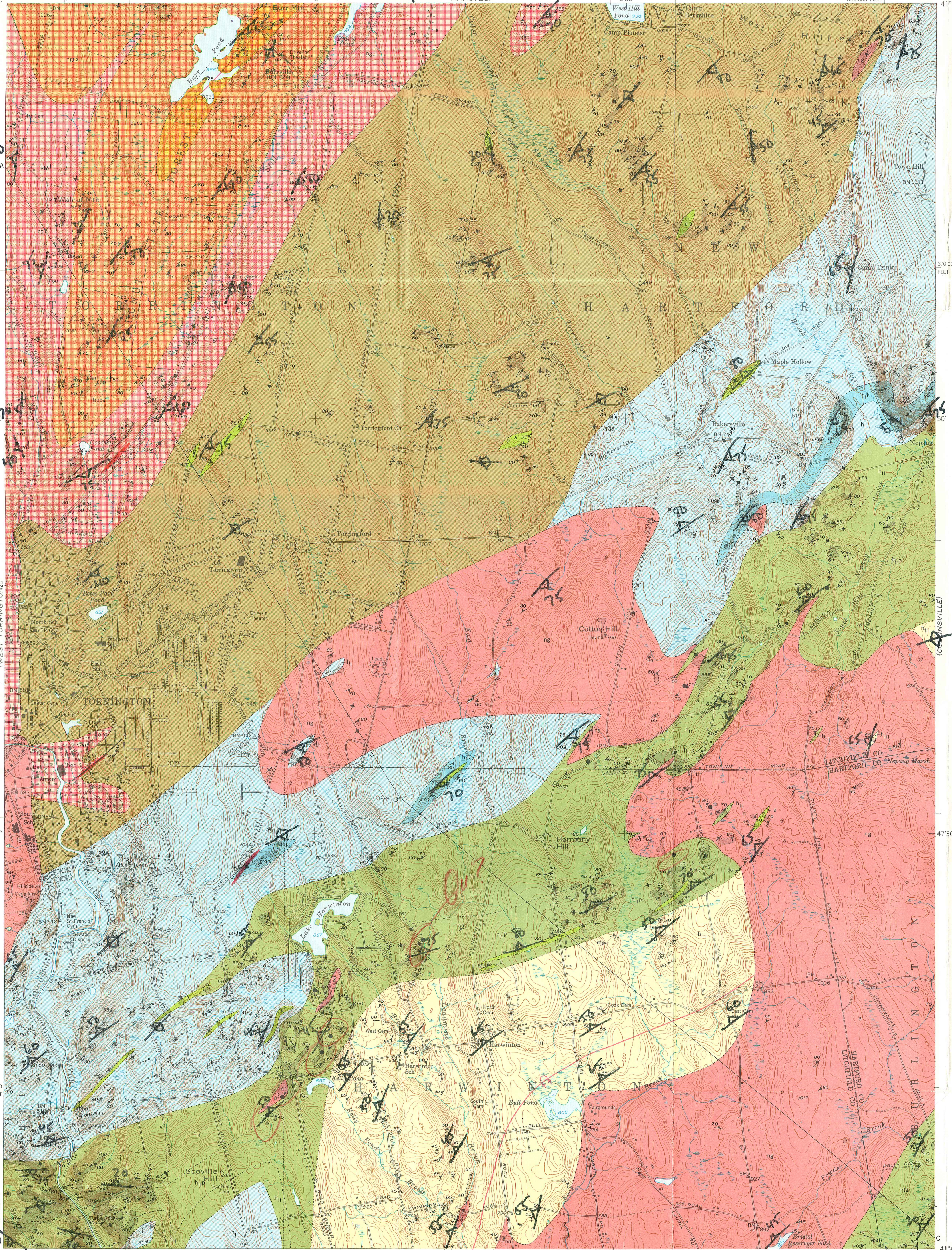
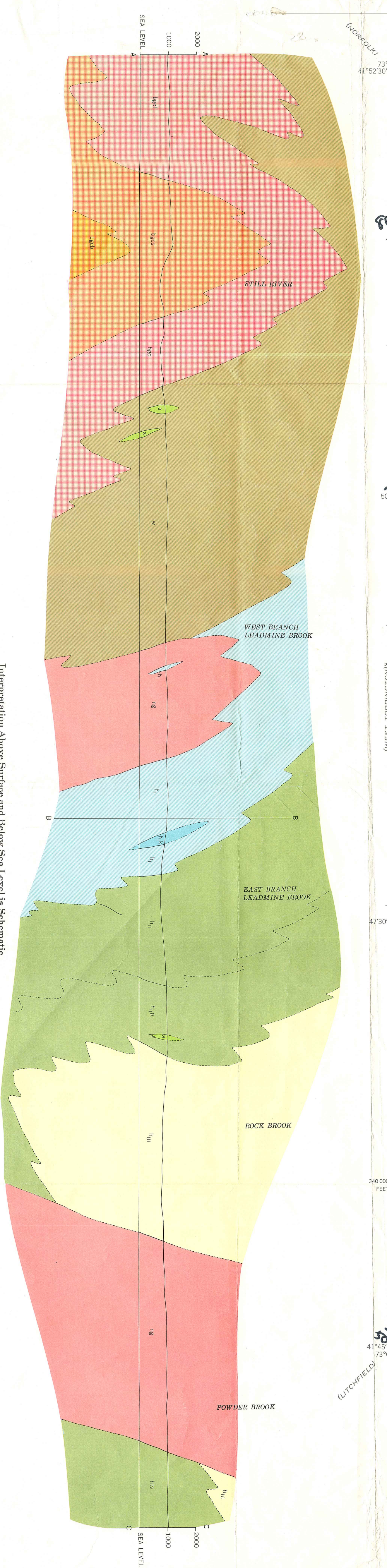
- Granite and Pegmatite
- ng Nonwedge Granite. Fine-grained to pegmatitic, massive to layered rock composed of mica, microcline, quartz, and plagioclase. Coarse granitic plagioclase crystals are locally abundant.
- tg Tyler Lake Granite. Medium-grained to pegmatitic, massive to gneissic, biotite-muscovite-microcline-quartz-plagioclase gneiss, with accessory garnet, apatite, zircon, and chlorite. Color is gray, pink, or white. Pegmatite is abundant as lenses or irregular patches.
- g Undifferentiated granite.
- p Pegmatite.
- a Amphibolite
Fine to coarse-grained, dark green to black amphibolites composed essentially of hornblende, plagioclase, and quartz, with accessory garnet, biotite, apatite, zircon, carbonates, magnetite, epidote, and sphene. A few contain abundant coarse garnets. Amphibolites range from unfoliated to well-foliated and slabby.
- Altered Ultrabasic Rocks
Massive, gray weathering rocks consisting mainly of serpentine, talc, and tremolite, with subordinate olivine remnants, and accessory carbonates, pyrite, and magnetite.
- h_{III} Hartland Formation Unit III
Thinly interlayered, slabby, fine- to medium-grained, muscovite-biotite-plagioclase-quartz granitic and muscovite-biotite-plagioclase-quartz schist. Characterized by abundant graphite, especially in granitic, and by porphyroblastic biotite and apatite in the schist. Granulite is dark gray, schist is silty.
- h_{II} Hartland Formation Unit II
Medium-grained, biotite-muscovite-plagioclase-quartz schist with abundant, coarse porphyroblasts of plagioclase, garnet, staurolite, and kyanite. Accessory minerals are chlorite, tourmaline, zircon, apatite, sphene, rutile, and magnetite. Dominates upper part of Unit II and contains several amphibolite lenses.
- h_I Hartland Formation Unit I
Fine-grained, gray, muscovite-biotite-plagioclase-quartz granitic or granitic gneiss with subordinate layers of mica-plagioclase-quartz schist. Contains amphibolite in thin layers to pods and minor calc-silicate.
- h_k Fine- to medium-grained, kyanite-mica-plagioclase-quartz granulite or gneiss with subordinate garnet, staurolite, and magnetite. Accessory minerals are chlorite, tourmaline, zircon, apatite, sphene, and sillimanite. Typically less well foliated than h_I.
- w Waramaug Formation
Rusty-weathering muscovite-biotite-plagioclase-quartz gneiss and sillimanite-kyanite-muscovite-plagioclase-quartz-biotite gneiss, the two types interbedded and interstitial. Accessory minerals are chlorite, staurolite, zircon, apatite, tourmaline, sphene, and magnetite. The rock is typically poorly foliated and has widely weathered surfaces where kyanite or sillimanite are present. Contains amphibolite lenses.
- bgcl The Gneiss Complex of the Berkshire Highlands
Gray, fine- to medium-grained, layered microcline-biotite-plagioclase-quartz gneiss. Layering depends on differing proportions and arrangements of feldspar and mafic minerals. Contains subordinate interlayered amphibolite, mafic gneiss, biotite gneiss, and calc-silicate rocks. Granite and pegmatite are abundant, and locally the rock is migmatitic.
- bgcs Pink and gray, fine- to medium-grained, massive to biotite streaked, mica-microcline-quartz-plagioclase gneiss. Contains minor amphibolite, mafic gneiss, and calc-silicate rocks, but lacks biotite gneiss. Well-banded granitic gneiss is rare.
- bgcb Rusty weathering fine- to medium-grained, sillimanite-kyanite-quartz-plagioclase-biotite gneiss. Kyanite and sillimanite coarse nodules weathered surfaces. Accessory minerals are zircon, rutile, apatite, and magnetite. (Special symbol indicates small zones of bgcb type lithology but no intended correlation with bgcb unit.)

- Contact, dashed where inferred or approximately located.
- Probable fault?
- Outcrop areas.
- Strike and dip of foliation.
- Generalized strike and dip of crumpled or variable foliation. Dip in direction of numeral.
- Strike of vertical foliation.
- Horizontal foliation.
- Direction and plunge of mesoscopic fold axes.
- Horizontal fold axes.
- Anticline, showing direction of plunges.
- Overturned syncline.

Generalized dip + strike of maximum foliation

Strike of vertical foliation

Interpretation Above Surface and Below Sea Level is Schematic



GEOLOGIC MAP OF THE TORRINGTON QUADRANGLE, CONNECTICUT
Bedrock Geology by Charles W. Martin 1965-67

Base map by U.S. Geological Survey
Control by USGS, USC&GS, and Columbia University
Topography from aerial photographs by multiplex methods
Aerial photographs taken 1944. Field check 1948
Revised 1955
Polyconic projection, 1927 North American datum
10,000-foot grid based on Connecticut coordinate system
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State of Connecticut

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN
DECLINATION, 1956

