

Bridgeport 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.

This map set contains unpublished maps, cross-sections, and related information archived by the State Geological and Natural History Survey of Connecticut as part of the Survey Library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 For many geographic areas, more current information exists, either in published or unpublished form.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.

JM Strouten 15 July 1977

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

QUADRANGLE REPORT NO. 24
Plate 2

EXPLANATION

In the rock descriptions below, primary minerals are listed in approximate order of increasing abundance. Grain-size definitions are as follows: fine = less than 1 mm; medium = 1-5 mm; coarse = more than 5 mm.

- BD** Buttrick Diabase
Brownish-orange-weathering, fine- to medium-grained, dark-gray diabase
- PA** Pinewood adamellite
Very light-gray-weathering, medium-grained muscovite adamellite
Outcrops of Pinewood Adamellite
- RP** Rhyolite porphyry
Very fine-grained biotite-muscovite rhyolite with phenocrysts of biotite, quartz, plagioclase, and microcline

- A** Ansonia Gneiss
Homogeneous, very well foliated, tan-weathering, fine- to medium-grained biotite-muscovite-quartz-plagioclase gneiss, locally lacking muscovite and rarely bearing garnet

- Pcc** Prospect Formation
Pcc—calcareous member. Thinly to thickly bedded, rusty-weathering, pinkish biotite schist; coarse-grained, graphic biotite-muscovite-quartz schist; medium-grained felsic biotite gneiss; pyriteiferous calc-silicate quartz rock, and thin bands of impure calc-silicate quartzite
- Pgh** Golden Hill Schist Member. Medium- to coarse-grained garnet-plagioclase-biotite-muscovite-quartz schist with subordinate interlayered fine- to medium-grained garnet-muscovite-biotite-plagioclase gneiss and quartzite
- Pbg** Beardsley Gneiss Member. Strongly lineated, medium-grained epidote-biotite-hornblende-quartz-microcline-plagioclase gneiss, generally bearing large Caribbad-twinned megacrysts of microcline, accompanied throughout by pods and lenses much richer in hornblende. Clots and veins of pink pegmatite and epidote-rich pods are characteristic
- Ppg** Pumpkin Ground Member. Most typically moderately well foliated, medium-grained biotite-quartz-microcline-plagioclase gneiss bearing numerous large, euhedral megacrysts of Caribbad-twinned microcline, with minor interlayered muscovite and biotite schist, feldspathic and quartzose biotite gneiss, garnet-muscovite-quartz-feldspar gneiss and micaceous quartzite

- SMbs** Southington Mountain Formation
SMbs—banded schist member. Thinly interlayered, medium- to coarse-grained garnet-plagioclase-biotite-muscovite-quartz schist and finer grained quartzite and feldspathic biotite gneiss
- SMss** Sturtevant schist member. Uniform, rusty-weathering, medium- to coarse-grained, graphic garnet-plagioclase-biotite-muscovite-quartz schist bearing large sericitized porphyroblasts of staurolite and kyanite

- TFm** Trap Falls Formation
TFm—Shelton facies. Largely medium-grained, generally poorly foliated garnet-muscovite-microcline-quartz-plagioclase gneiss weathering very light tan and bearing tiny spheroidal garnets less than 1 mm in diameter. Interlayered metasediments include medium- to coarse-grained biotite and muscovite schist, fine- to medium-grained biotite-plagioclase-quartz gneiss, and tough, fine-grained calc-silicate rock
- TFrs** Separately mappable bodies of metasediment composed largely of rusty-weathering, coarse-grained tourmaline-biotite-quartz-plagioclase-garnet-muscovite schist with garnet porphyroblasts, interlayered with thin layers of finer grained biotite-plagioclase-quartz schist, fine- to medium-grained biotite and muscovite schist and mica-quartz-feldspar gneiss. Includes minor amphibolite and hornblende-garnet-plagioclase quartzite

- TSu** The Straits Schist
TSu—upper member. Coarse-grained, locally kyanite-bearing garnet-biotite-plagioclase-muscovite-quartz schist with abundant interlayered biotitic schist and feldspathic schist and gneiss. Amphibolite and/or quartzite common at the base
- TSl** Lower member. Uniform, medium- to coarse-grained, rusty-weathering garnet-plagioclase-biotite-muscovite-quartz schist, normally graphic and ordinarily bearing kyanite or sillimanite or both

- Odh** Orange Formation
Odh—Derby Hill Member. Thin-bedded, fine- to medium-grained "pinetrip" muscovite schist and gneiss with interlayered medium- to coarse-grained garnet-biotite-chlorite-plagioclase-quartz-muscovite schist
- Oo** Oronoque Member. Similar to Derby Hill Member but includes minor interlayered, dark-greenish-black, fine- to medium-grained, magnetite-rich, quartzose amphibolite
- W** Very fine-grained quartz-feldspathic gneiss bearing small augen of plagioclase and quartz. May be equivalent in part to the Woodridge granite of Fritts (1956)

- CP** Cooks pond Schist
Uniform, fine-grained, rusty-weathering biotite-muscovite-quartz schist with a distinctive sheen due to the presence of abundant fine-grained graphite interleafed with mica

- TSu** The Straits Schist
- TSi** Lower member. Uniform, medium- to coarse-grained, rusty-weathering garnet-plagioclase-biotite-muscovite-quartz schist, normally graphic and ordinarily bearing kyanite or sillimanite or both

- Odh** Orange Formation
- Oo** Oronoque Member. Similar to Derby Hill Member but includes minor interlayered, dark-greenish-black, fine- to medium-grained, magnetite-rich, quartzose amphibolite
- W** Very fine-grained quartz-feldspathic gneiss bearing small augen of plagioclase and quartz. May be equivalent in part to the Woodridge granite of Fritts (1956)

- CP** Cooks pond Schist

- Odh** Orange Formation
- Oo** Oronoque Member. Similar to Derby Hill Member but includes minor interlayered, dark-greenish-black, fine- to medium-grained, magnetite-rich, quartzose amphibolite
- W** Very fine-grained quartz-feldspathic gneiss bearing small augen of plagioclase and quartz. May be equivalent in part to the Woodridge granite of Fritts (1956)

- CP** Cooks pond Schist

- Odh** Orange Formation
- Oo** Oronoque Member. Similar to Derby Hill Member but includes minor interlayered, dark-greenish-black, fine- to medium-grained, magnetite-rich, quartzose amphibolite
- W** Very fine-grained quartz-feldspathic gneiss bearing small augen of plagioclase and quartz. May be equivalent in part to the Woodridge granite of Fritts (1956)

- CP** Cooks pond Schist

- Odh** Orange Formation
- Oo** Oronoque Member. Similar to Derby Hill Member but includes minor interlayered, dark-greenish-black, fine- to medium-grained, magnetite-rich, quartzose amphibolite
- W** Very fine-grained quartz-feldspathic gneiss bearing small augen of plagioclase and quartz. May be equivalent in part to the Woodridge granite of Fritts (1956)

- CP** Cooks pond Schist

- Odh** Orange Formation
- Oo** Oronoque Member. Similar to Derby Hill Member but includes minor interlayered, dark-greenish-black, fine- to medium-grained, magnetite-rich, quartzose amphibolite
- W** Very fine-grained quartz-feldspathic gneiss bearing small augen of plagioclase and quartz. May be equivalent in part to the Woodridge granite of Fritts (1956)

- CP** Cooks pond Schist

- Odh** Orange Formation
- Oo** Oronoque Member. Similar to Derby Hill Member but includes minor interlayered, dark-greenish-black, fine- to medium-grained, magnetite-rich, quartzose amphibolite
- W** Very fine-grained quartz-feldspathic gneiss bearing small augen of plagioclase and quartz. May be equivalent in part to the Woodridge granite of Fritts (1956)

- CP** Cooks pond Schist

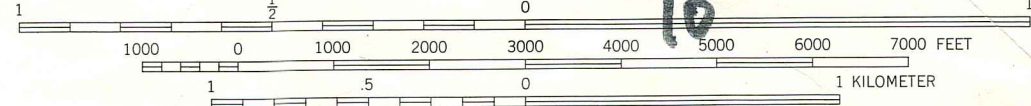
- Odh** Orange Formation
- Oo** Oronoque Member. Similar to Derby Hill Member but includes minor interlayered, dark-greenish-black, fine- to medium-grained, magnetite-rich, quartzose amphibolite
- W** Very fine-grained quartz-feldspathic gneiss bearing small augen of plagioclase and quartz. May be equivalent in part to the Woodridge granite of Fritts (1956)



BEDROCK GEOLOGIC MAP OF THE BRIDGEPORT QUADRANGLE, CONNECTICUT

By William P. Crowley, 1963-1965

SCALE 1:24,000



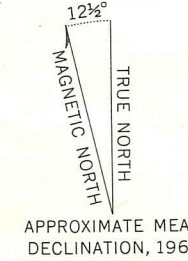
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER

SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER

THE MEAN RANGE OF TIDE IS APPROXIMATELY 6.8 FEET

Base map by U.S. Geological Survey
Control by USGS, USC&GS, USCE, and Connecticut Geodetic Survey
Topography by photogrammetric methods from aerial photographs taken 1949. Field checked 1951. Revised 1960
Selected hydrographic data compiled from USC&GS Chart 220 (1959)
This information is not intended for navigational purposes
Polyconic projection. 1927 North American datum
10,000-foot grid based on Connecticut coordinate system
Copyright 1968
State of Connecticut



Planar = direction of lineation

Dip + strike of foliation

Vertical foliation

109

(BRIDGEPORT)

(FAIRFIELD)

(STRATFORD)

(MILFORD)

(BRIDGEPORT)

(LONG ISLAND SOUND)