Guilford Quadrangle Bedrock Geology Map w/Explanation (Mylar)

Stanely Bernold Explanation Map

Preliminary Bedrock Geologic Map of Guilford, Conn. - 1962

NOTICE !

This document contains unpublished maps, cross- sections, and related information archived by the State Geological and Natural History Survey of Connecticut as part of the Survey Library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 For many geographic areas, more current information exists, either in published or unpublished form.

For the most part, these materials were developed under research and mapping agreements between the State Geological Survey and individual scientists, academic institutions, or graduate students. Some of these materials have been received by the State Geological Survey as donations. 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. <u>www.datapreservation.usgs.gov</u>

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 <u>Connecticut State Geologist</u>.

QUADRANGLE Guilford

BEDROCK/SURFICIAL

Bechert

ata on	hand		· .		
maj	type Prefemen Beehows	date	autho r Berneld	c	omments
	- And	P			· · · · ·
		<u></u>			
-					
text	PhD Thesis 1962	Vale	Unir	distante.	
	cone of this is	In R	il at s	e Lil	Verg-
	0 1	699.	8		-
		44		· ~	
				-	-
Othe	r		· · · ·		
				-	- 4,1
	•				
• •					
ate	comment	. `.		date	name
_		×	8		
- N					
			•		
		:			
-					
					•

PRELIMINARY BEDROCK GEOLOGIC MAP OF THE GUILFORD QUADRANGLE , CONN

by

Stanely Bernold

Compiled from a PhD thesis, Yale University, 1962

CONNECTICUT GEOLOGICAL AND NATURAL HISTORY SURVEY Natural Resources Center Dept. of Environmental Protection

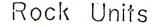
Open File Report # 76-

This Open File Report has not been reviewed or edited by the Conn. Survey. An <u>Open File Statement</u> is included with each report providing more information about the source of the report.

EXPLANATION

History Survey Library

06106-512

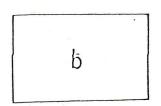


Try

Triassic rocks

Undifferentiated sandstone, conglowerate, and shale with intercalated basaltic flow. Tr u

Dolerite dike, d



Brimfield formation

Carn'eiferous two-mica schist, with nuscovitic pegnatite. Rare amphibolite in upper part. Quartzrich gnetss, diopsidic calcsilicate granulite, and granitic gneiss in lower part.

s mia			
mib			
mi	Middletown formation		
mic { mic	Amphibolite, garnetiferous biotite schist, and		
{ mid	diopsidic calcsilicate granulite, mia	•	
	Anthophyllitic quartz-plagioclase gneiss, biotite- anthophllite schist, amphibolite. sillimanite- quartz nodular gneiss, plagioclawe-quartz- hornblende and/or biotite gneiss, mib		
,	Plagioclase-quartz-hornblende and/or biot:te gneiss and amphibolite, mic		
,	Anthophyllitic assemblage similar to mib = mid		
	Ne formation		۰,
mo	Monson formation		
	Plagioclase-quartz-biotite and/or hornb'ende gneiss and amphibolite. Tremolitic quartz-plagioclase gneiss in upper part. Garnet-quartz granulite and biotite schist in middle part. Granitic gneiss especially in lower part.		
р	"Plainfield" formation		
	Quartzite and biotite mignatite schist.		
•			
mm	"Mamacoke" formation		
	Biotite mignatite schist and gneiss, quartz-rich granulite and ^{qu} artzite, blotite schist, amphibolite and abundant granite and pegnatite.		
∇			
	Stony Creek granite		
	Pink biotite granite.	 	

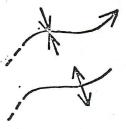
Contact, dashed where approximate, queried where uncertain



Strike and dip of foliation

Strike of vertical foliation

Axial Traces of major folds



Axial trace of syncline; terminal arrow shows plunge Axial trace of anticline

Faults



High-angle fault; D = downthrown, U = upthrown side High-angle fault; relative movement indicated



Possible fault

Silicified fault zone

