

Guilford Quadrangle Bedrock Geology Map w/Explanation (Mylar)

Stanley Bernold

Explanation

Map

Preliminary Bedrock Geologic Map of Guilford, Conn. - 1962

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PRELIMINARY BEDROCK GEOLOGIC MAP OF THE GUILFORD QUADRANGLE , CONN

by

Stanley Bernold

Compiled from a PhD thesis, Yale University , 1962

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

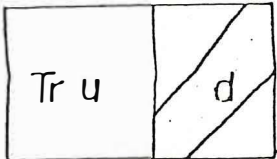
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EXPLANATION

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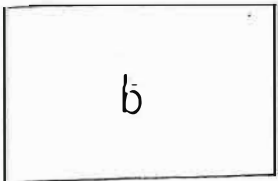
Rock Units



Triassic rocks

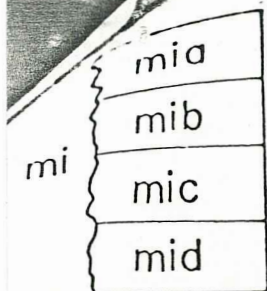
Undifferentiated sandstone, conglomerate, and shale with intercalated basaltic flow, Tr u

Dolerite dike, d



Brimfield formation

Carboniferous two-mica schist, with muscovitic pegmatite. Rare amphibolite in upper part. Quartz-rich gneiss, diopsidic calcisilicate granulite, and granitic gneiss in lower part.



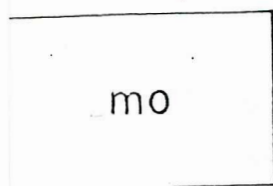
Middletown formation

Amphibolite, garnetiferous biotite schist, and diopsidic calcisilicate granulite, mia

Anthophyllitic quartz-plagioclase gneiss, biotite-anthophyllite schist, amphibolite, sillimanite-quartz nodular gneiss, plagioclase-quartz-hornblende and/or biotite gneiss, mib

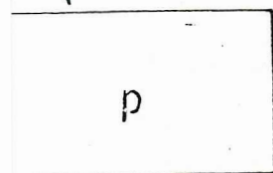
Plagioclase-quartz-hornblende and/or biotite gneiss and amphibolite, mic

Anthophyllitic assemblage similar to mib = mid



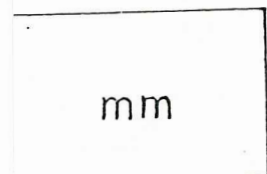
Monson formation

Plagioclase-quartz-biotite and/or hornblende 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.



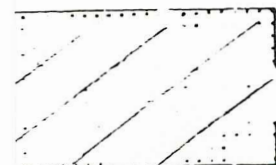
"Plainfield" formation

Quartzite and biotite migmatite schist.



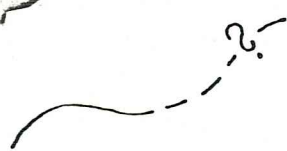
"Mamacoke" formation

Biotite migmatite schist and gneiss, quartz-rich granulite and quartzite, biotite schist, amphibolite and abundant granite and pegmatite.

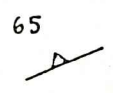


Stony Creek granite

Pink biotite granite.



Contact, dashed where approximate, queried where uncertain



Strike and dip of foliation

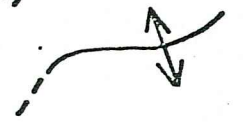


Strike of vertical foliation

Axial Traces of major folds

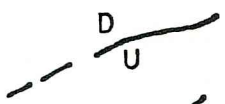


Axial trace of syncline; terminal arrow shows plunge



Axial trace of anticline

Faults



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



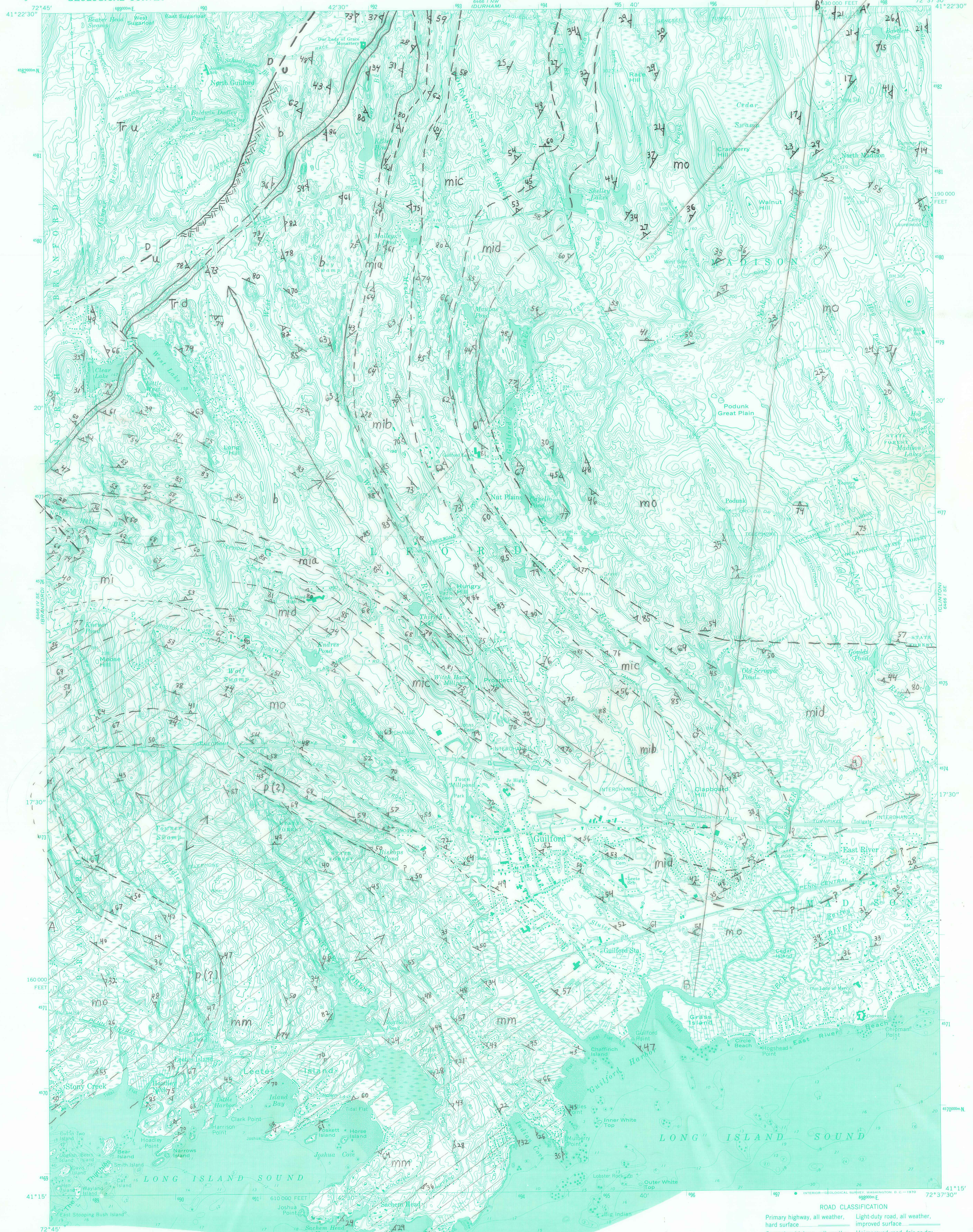
High-angle fault; relative movement indicated



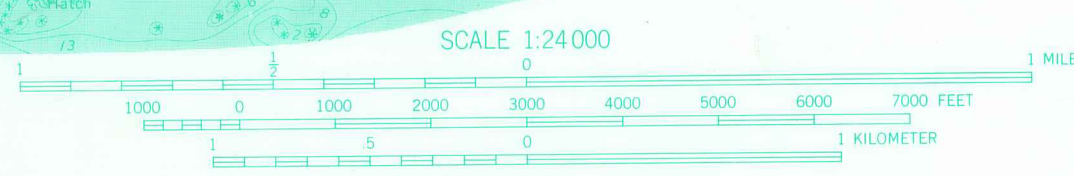
Possible fault



Silicified fault zone



Mapped, edited, and published by the Geological Survey
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Topography by photogrammetric methods from aerial photographs taken
1949. Field checked 1954. Revised from aerial photographs taken
1956. Field checked 1968
Selected hydrographic data compiled from USC&GS Charts 217 (1962)
and 216 (1955). This information is not intended for
navigational purposes
Polyconic projection. 1927 North American datum
10,000-foot grid based on Connecticut coordinate system
1000-meter Universal Transverse Mercator grid ticks,
zone 18, shown in blue
Fine red dashed lines indicate selected fences and field lines where
generally visible on aerial photographs. This information is unchecked



CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER
SHORELINE SHOWN HERE IS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE RANGE OF TIDE IS 5.4 FEET



ROAD CLASSIFICATION

| | | |
|--|--|-------------|
| Primary highway, all weather, hard surface | Light-duty road, all weather, improved surface | |
| Secondary highway, all weather, hard surface | Unimproved road, fair or dry weather | |
| Interstate Route | U. S. Route | State Route |

GUILFORD, CONN.
N4115—W7237.5/7.5
1968
AMS 6466 1 SW—SERIES V816

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