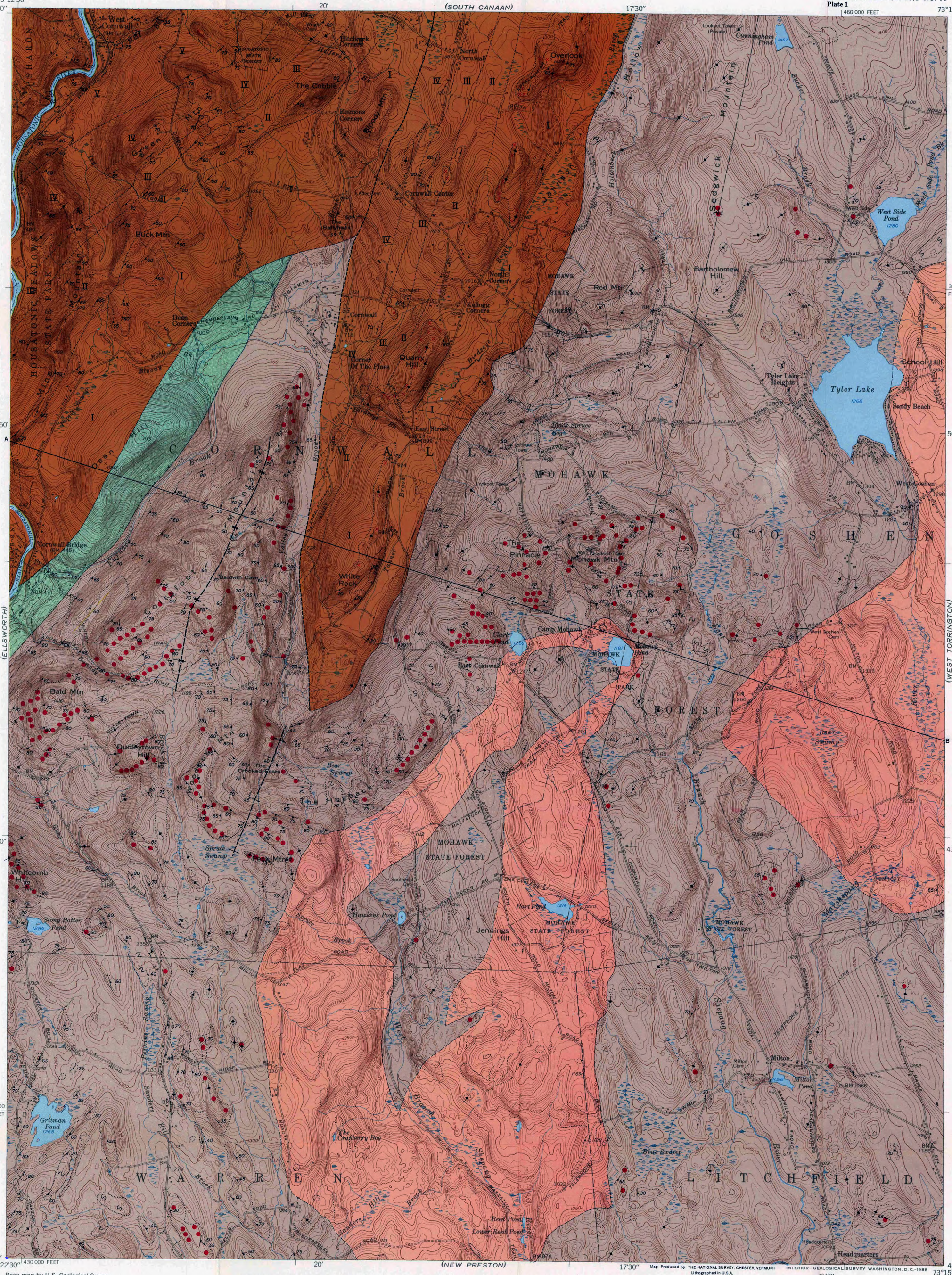
Open Report

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

QUADRANGLE REPORT NO. 11
Plate 1



EXPLANATION

Tyler Lake granite
Massive, white, fine- to medium-grained granite composed of quartz, microcline, plagioclase and mica. Granulation and cataclasis are characteristic features. Foliation symbols in granite body represent large Waramaug inclusions.

Waramaug formation
Rusty weathering quartzo-feldspathic biotite gneiss and sillimanite-garnet-quartzo-feldspathic biotite gneiss. These rocks are intermixed and intergrade. Sillimanite and garnet produce a nubby weathered surface.

Amphibolite
Pods and layers in Waramaug.

Stockbridge marble
Medium- to coarse-grained, white to gray, dense calcitic marble. Impurities are phlogopite, muscovite, tremolite and quartz.

Gneiss complex of the Housatonic highlands
Major rock types are; 1) banded, granitic gneiss, 2) rusty weathering quartzo-feldspathic gneiss, 3) mafic gneiss composed of various amounts of hornblende, biotite, plagioclase and quartz with accessory sphene, epidote, and magnetite, and 4) diopsidic and graphitic rocks.
Subdivisions I to V defined in text.

Small young massive granite bodies in Gneiss complex.

Formation contact
Dashed where indefinite or inferred; location essentially accurate

Intraformational contact

Major outcrop areas

Inferred fault

Doubtful or probable fault

Approximate axis of foliation syncline

Approximate axis of foliation anticline

Strike and dip of foliation

Strike of vertical foliation

Bearing and plunge of lineation

Crumpled and poorly defined foliation

Generalized strike and dip of crumpled, plicated, crenulated or undulating foliation

Base map by U.S. Geological Survey
Control by USGS, USC&GS, 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

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State of Connecticut

Map Produced by THE NATIONAL SURVEY, CHESTER, VERMONT
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INTERIOR—GEOLOGICAL SURVEY WASHINGTON, D.C.—1958
MR 2204

GEOLOGIC MAP OF THE CORNWALL QUADRANGLE, CONNECTICUT

Bedrock Geology by Robert M. Gates, 1956-60.

13°
MAGNETIC NORTH
TRUE NORTH
APPROXIMATE MEAN DECLINATION, 1956

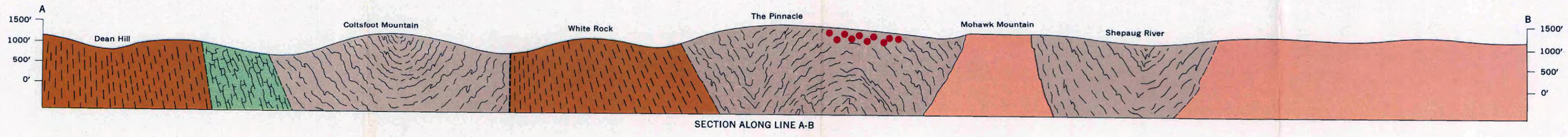
SCALE 1:24000
1 ½ 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

CONNECTICUT
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Medium-duty — Unimproved dirt

CORNWALL, CONN.
N4145—W7315/7.5



SECTION ALONG LINE A-B