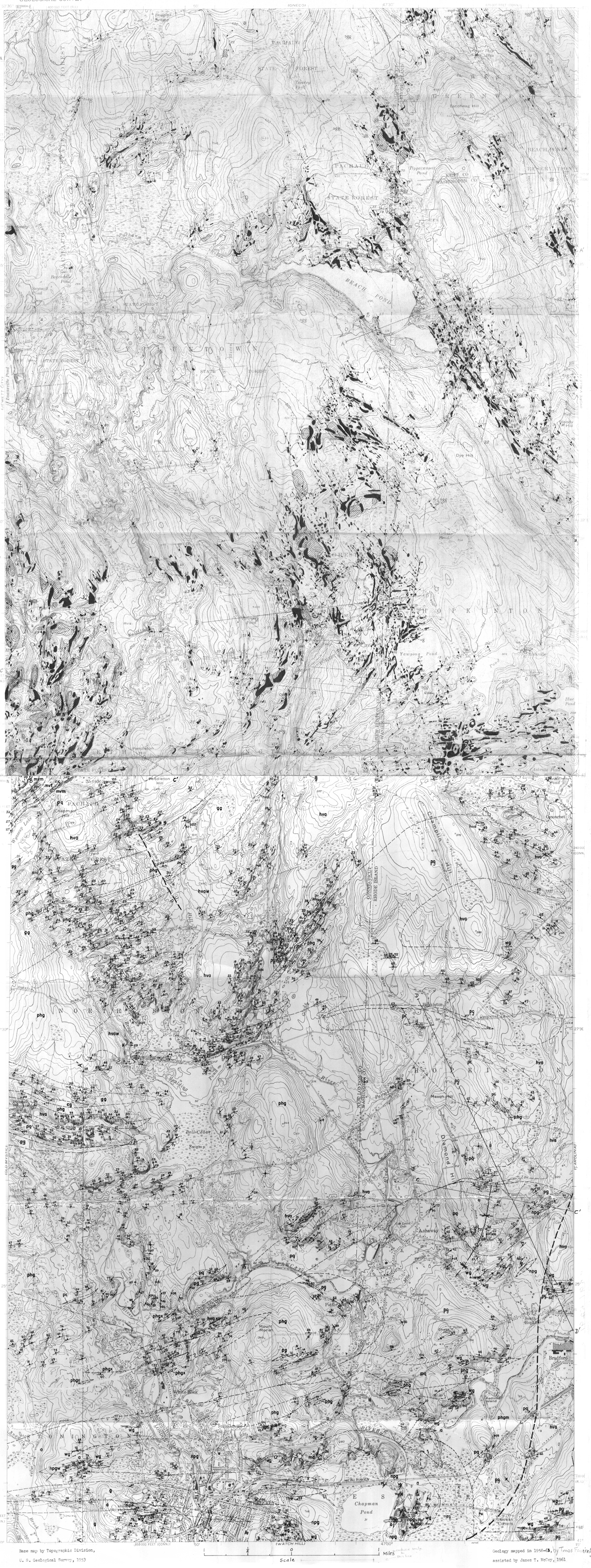
Plate II

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with
The State of Connecticut
Geological and Natural History Survey
and
The State of Rhode Island
Development Council



EXPLANATION

Individual and nearly continuous outcrop areas shown by darker shade. Closely spaced outcrop areas shown by ruled lines

TRIASSIC(?)

md

Mafic dike

LATE OR POST PENNSYLVANIAN

wg

Westerly Granite

ngpw
npg

Narragansett Pier Granite

ngpw, white facies

MISSISSIPPIAN(?) OR OLDER

Rhode Island Batholith

phgf
phg
phgm

Potter Hill Granite Gneiss

phgm, massive facies
phgx, mixed facies

hvaw
hvoq
hva
hvaf

Hope Valley Alaskite Gneiss

hvaw, white facies
hvaf, fine-grained facies
hvag, fine-grained granite

sgg
sggf

Scituate Granite Gneiss

sggf, fine-grained facies

trg

Ten Rod Granite Gneiss

gg

Porphyritic granite gneiss

eqd
eqdf

Escoheag Quartz Diorite Gneiss

eqdf, fine-grained facies

og
ogm

Augen gneiss

ogm, muscovitic facies

ORDOVICIAN(?)

csq

Calc-silicate quartzite

mvf
mvu
mvm

g
cg
a

Metavolcanic rocks

mvm, mafic and intermediate metavolcanic rocks
mvf, felsic metavolcanic rocks
mvu, undivided metavolcanic rocks

a, amphibolite
g, layered felsic gneiss
cg, calcareous felsic gneiss

CAMBRIAN(?)

pq
pqg
pg
pc

Plainfield Formation

pg, feldspathic biotite gneiss and schist
pqg, quartzose biotite gneiss and schist
pc, calc-silicate quartzite and calc-silicate granofels
pq, quartzite

m

Mafic metamorphic rock

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Contact

Dashed where approximately located; short dashed where gradational; dotted where concealed; tick and figure give direction and amount of dip

U
D

Fault

Approximately located; U, upthrown side; D, downthrown side, indicated where known

Synclinal axis

Vertical — Inclined 40 — Horizontal

Foliation

Parallelism of minerals, especially micas

Inclined — Horizontal

Lineation

Alinement of individual mineral grains or groups of mineral grains unless designated otherwise. PA, minor fold axis; C, crinkle axis; S, slickenside

Vertical — Inclined 30

Bedding

Vertical — Inclined 76 — Horizontal

Joint

Topographic lineament

I — S

Mineral Localities

I, ilmenite (dashed border surrounding letter delineates area of occurrence in glacial boulders); S, sillimanite in granitic rock

N

Quartz-sillimanite and quartz-sillimanite-muscovite nodule layers in phg, hva, hvaw, hvaf, and sg. Lines denote probable extent of layers; N, exposure of nodules

Quarry

Large quarry — Small quarry or stone prospect

Abandoned quarry

Abandoned quarries are too numerous to show on the hills immediately north of the railroad from Hoosenack Hill Road to Agguntaug Brook

p

Pegmatite

zu

Muscovite-rich Hope Valley Alaskite Gneiss

Base map by Topographic Division, U. S. Geological Survey, 1953

Geology mapped in 1956-63, by Tomas Feininger assisted by James T. Motey, 1961

Geologic map, Ashaway and Voluntown quadrangles, Connecticut-RHODE ISLAND

by
Tomas Feininger
1963

U.S. Geological Survey
OPEN FILE MAP
This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.