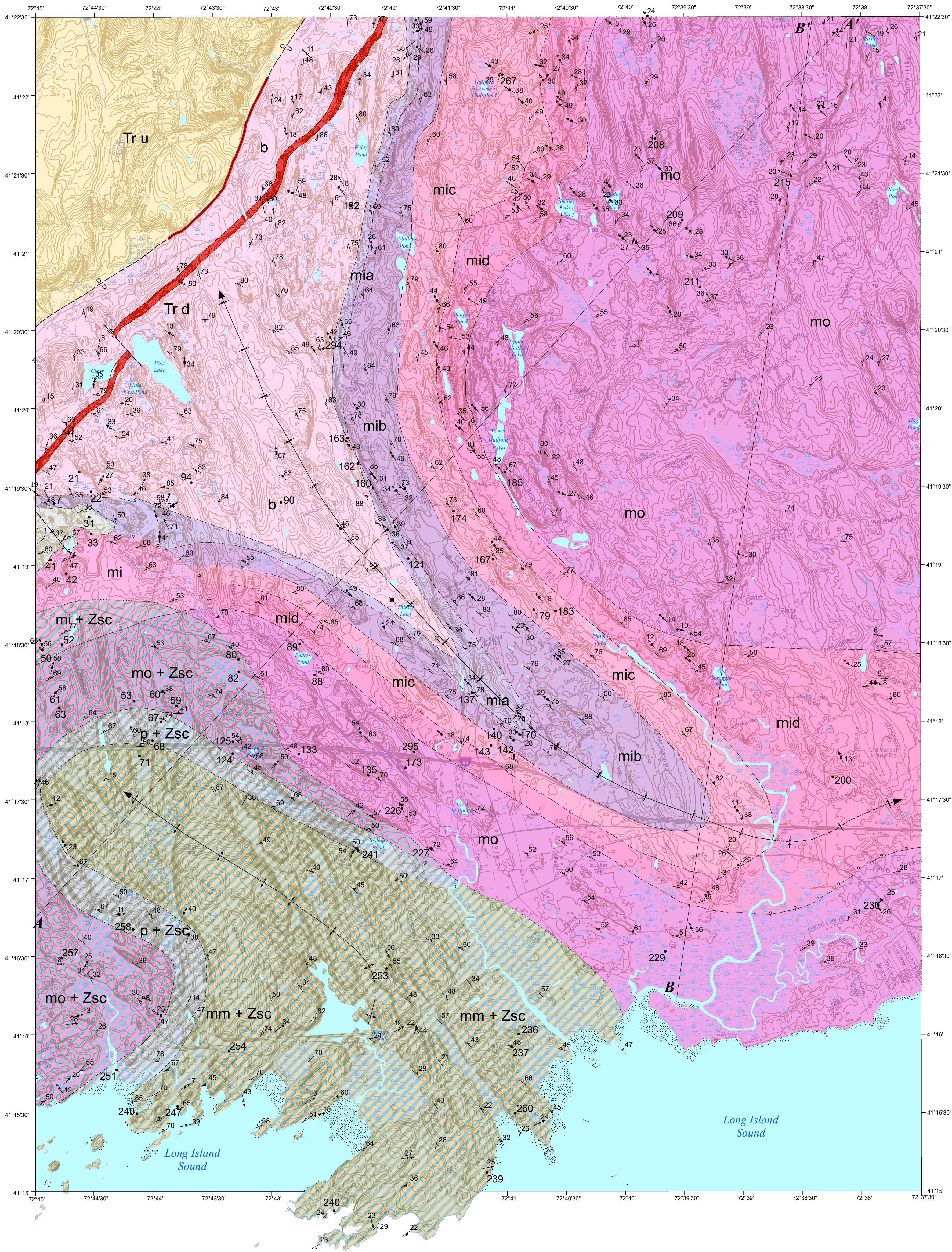


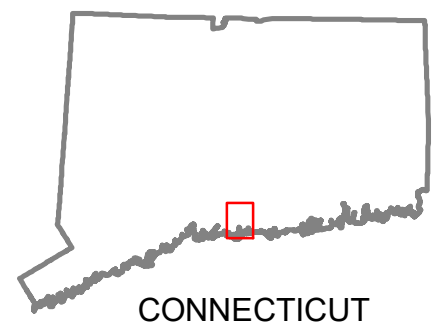
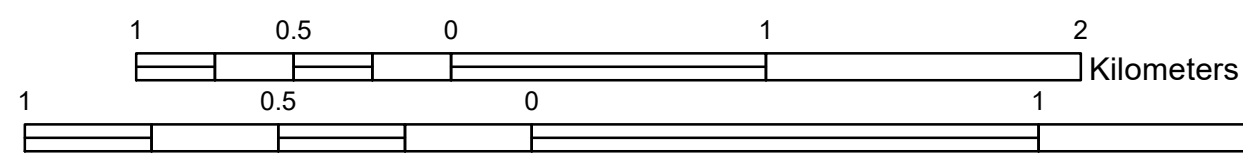
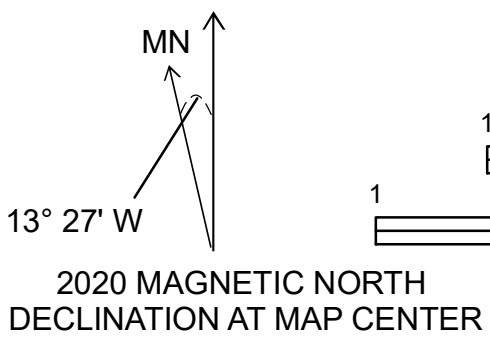


Base map compiled from DEEP data, accessed through www.cleco.uconn.edu. North American Datum of 1983 (NAD83) Connecticut State Plane FIPS 0600 (U.S. Feet) Lambert Conformal Conic Projection

Preliminary Bedrock Geology of the Guilford Quadrangle, Connecticut
Stanley Bernold, 1962

Plate 1

1:24,000



CONNECTICUT

1	2	3
4	5	

1 Wallingford
2 Durham
3 Haddam
4 Branford
5 Clinton

QUADRANGLE LOCATION AND ADJOINING QUADRANGLES

Rock Units

Triassic	Tr u	Undifferentiated sandstone, conglomerate, and shale with intercalated basaltic flow.
	d	Dolerite dike
Ordovician	b	<u>Brimfield Formation</u> . Garnetiferous two-mica schist, with muscovite pegmatite. Rare amphibolite in upper part. Quartz-rich gneiss, diopsidic calcsilicate granulite, and granitic gneiss in lower part.
	mia	Amphibolite, garnetiferous biotite, schist, and diopsidic calcsilicate granulite.
	mib	Anthophyllitic quartz-plagioclase gneiss, biotite-anthophyllite schist, amphibolite, sillimanite-quartz nodular gneiss, plagioclase-quartz-hornblende and/or biotite gneiss.
	mic	Plagioclase-quartz-hornblende and/or biotite gneiss and amphibolite.
	mid	Anthophyllitic assemblage similar to mib.
Paleozoic	mo	<u>Monson Formation</u> . 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.
		Unspecified, unlabeled rocks
Proterozoic Z	p	<u>Plainfield Formation</u> . Quartzite and biotite migmatite schist.
	mm	<u>Mamacoke Formation</u> . Biotite migmatite schist and gneiss, quartz-rich granulite and quartzite, biotite schist, amphibolite and abundant granite and pegmatite.
	Zsc	<u>Stony Creek Granite Gneiss</u> . Pink biotite granite.

EXPLANATION OF MAP SYMBOLS

Geologic Contact: Location accurate where solid, approximate where dashed, queried where uncertain.

High-angle fault; D = downthrown, U = upthrown side. Highlighted red where silicified.

Possible fault.

High-angle fault; relative movement indicated.

Axial trace of anticline; terminal arrow shows plunge. Location accurate where solid, approximate where dashed.

Axial trace of syncline; terminal arrow shows plunge. Location accurate where solid, approximate where dashed.

↖ Strike and dip of foliation. ↗ Strike of vertical foliation. • Approximate location of thin section specimen.

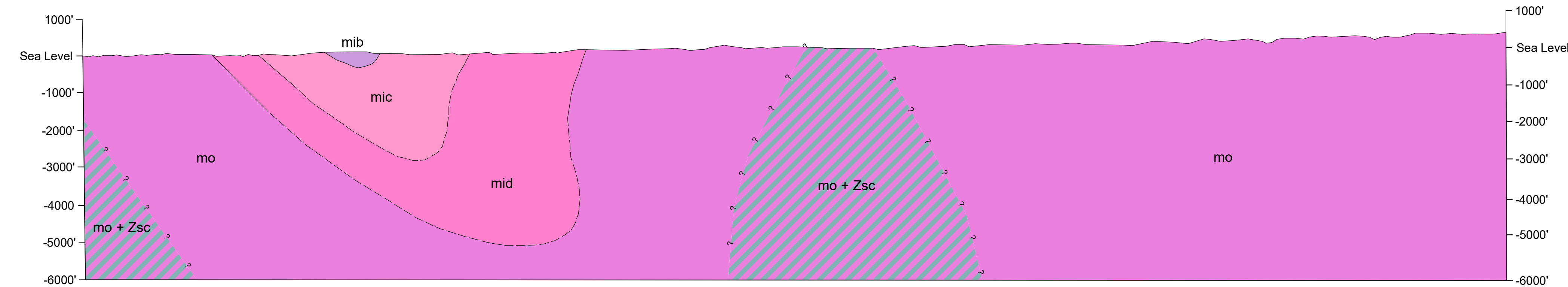
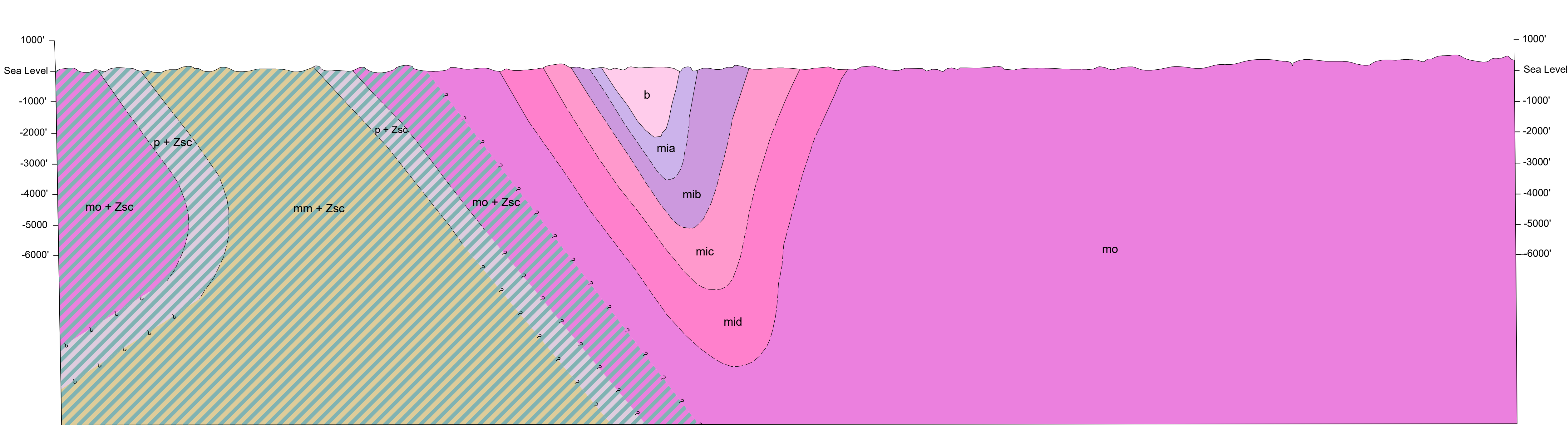
↖ Mineral lineation. ↗ Minor fold axis, form unknown. ↖ Minor anticlinal axis. ↗ Minor synclinal axis.

↖ Axis of minor fold with clockwise rotational sense. ↗ Axis of minor fold with counterclockwise rotational sense. ↖ Beta axis from foliation intersections, observed lineations parallel. ↗ Beta axis from foliation intersections, observed lineations folded.

Bernold, Stanley, 1976. Preliminary bedrock geologic map of the Guilford 7.5 minute quadrangle, New Haven County, Connecticut, Connecticut Geological and Natural History Survey, Hartford, CT, Open File 76-1, 1:24,000 scale, PDF; GIS geodatabase [GeMS format] www.ct.gov/deep/geology

Digital compilation of the Preliminary Bedrock Geologic Map of the Guilford 7.5 minute Quadrangle, New Haven County, Connecticut supported by the U.S. Geological Survey, National Geological and Geophysical Data Preservation Program and the Connecticut Geological Survey, Department of Energy and Environmental Protection. Award no. G19AP00113

Digital cartography and geodatabase by David Vohra, Connecticut Geological Survey, 2020.

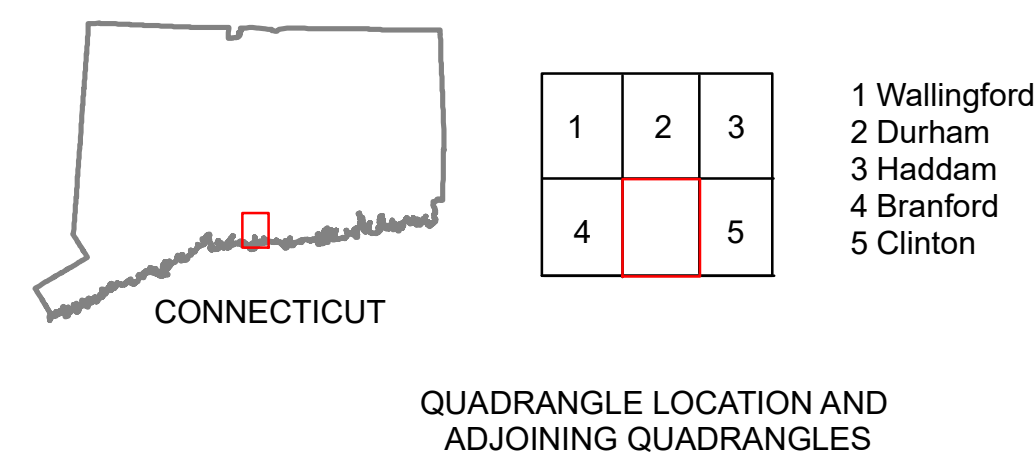
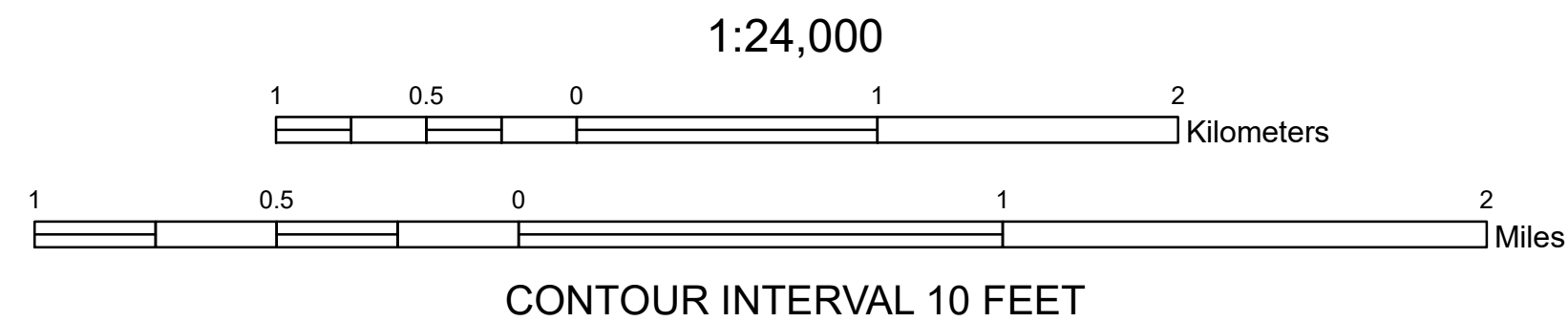


Rock Units	
Ordovician	b <u>Brimfield Formation.</u> Garnetiferous two-mica schist, with muscovite pegmatite. Rare amphibolite in upper part. Quartz-rich gneiss, diopsidic calcsilicate granulite, and granitic gneiss in lower part.
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	Zsc <u>Stony Creek Granite Gneiss.</u> Pink biotite granite.

EXPLANATION OF MAP SYMBOLS

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Preliminary Bedrock Geology of the Guilford Quadrangle, Connecticut Stanley Bernold, 1962 Plate 2



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