

CORRELATION OF UNITS



DESCRIPTION OF UNITS

- e4** Unit 4 of Peck - Dark gray, thick-bedded metapelite and metasandstone. Locally chistolite hornfels.
- e3** Unit 3 of Peck - Predominantly dark-hued, well-bedded and graded metasilstone and metapelite; locally silvery slate. Locally chistolite-cordierite hornfels.
- e2** Unit 2 of Peck - Brownish-gray metasilstone interlayered with greenish-gray phyllite. Commonly ankerite and deformed by kink banding.
- b5** Unit 5 of Peck - Biotite-quartz-feldspar, metasandstone with salt and pepper texture interbedded with purple-green quartzite. Contains syenitic felsic metavolcanic rocks (b5v) east of Hickory Hills Lake.

- Contact - Dashed where approximately located; queried where location is inferred. Placement is arbitrary owing to gradation between units.
- Fault - Dashed where approximately located; queried where location is inferred.
- Anticline - Inferred; showing location of crestline.
- Syncline - Inferred; showing location of troughline.
- Strike and dip of bedding.

- Strike and dip of primary foliation.
- Strike and dip of secondary foliation.
- Strike and dip of parallel bedding and foliation.
- Strike and dip of undulatory bedding +/or foliation.
- Strike and dip of bedding; ball indicates tops were determined from sedimentary structures.
- Strike and dip of overturned beds.
- Strike and dip of axial plane of small fold of bedding; arrow shows bearing and plunge of fold axis.
- Strike and dip of axial plane of small fold of foliation; arrow shows bearing and plunge of fold axis.
- Bearing and plunge of small fold axis.
- Strike and dip of small fault.
- Strike and dip of joint.
- Quartz vein; showing direction and amount of dip.
- Contact metamorphic rock (chistolite + cordierite + sillimanite hornfels).

OUTCROP SYMBOLS

- Bedrock outcrops.
- Areas of abundant bedrock outcrops, where too closely spaced to map separately.
- Areas of thin cover over bedrock; where bedrock is inferred to be within 10 ft. (3 m) of the surface.
- Outline of quarries as of July 1974.

Note: Location of contacts between units e2 and e3 in the east-central 1/9th of the quadrangle is conjectural based mainly upon reconnaissance and scattered data.

Selected References

- Emerson, B. K., 1917, Geology of Massachusetts and Rhode Island: U. S. Geol. Survey Bull. 597, 289 p.
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- Peck, J. H., 1975, Preliminary bedrock geology of the Clinton quadrangle, Worcester County, Massachusetts: U. S. Geol. Survey Open File Rept. no. 75-658, 1 map, cross-sections (3 sheets) scale 1:24,000, text, 30 p. (in press), Silurian and Devonian stratigraphy in the Clinton quadrangle, central Massachusetts, in: Page, L. R. [ed.], Stratigraphy of New England: Geol. Soc. Amer. Mem. 148.

EXPLANATION FOR INTERIM GEOLOGIC MAP OF THE SHIRLEY QUADRANGLE, MASSACHUSETTS

by
S. L. RUSSELL and R. W. ALLMENDINGER
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