

Description of Map Units

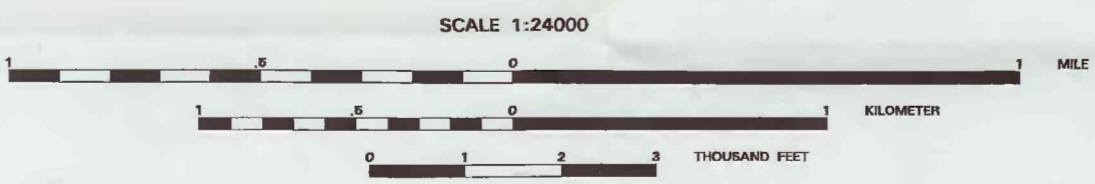
- ORDOVICIAN WALLOOMSAC FORMATION**
 - Ow Black to gray pyritiferous phyllite with minor laminated metasilstone
- ORDOVICIAN BASCOM FORMATION (includes Beldens Fm.)**
 - Ob Gray, thin- to medium-bedded, calcitic marble with lesser tan dolomitic marble
- ORDOVICIAN SHELburne FORMATION**
 - Osh White, medium- to thick-bedded dolomitic marble with green and black streaks
- CAMBRIAN CLARENDON SPRINGS DOLOMITE (includes Danby Fm.)**
 - Ccs Dull gray, massive, thick-bedded dolomitic marble with minor thin chert beds
- CAMBRIAN WINOOSKI DOLOMITE**
 - Cw Gray, medium-bedded, dolomitic marble with minor sandy dolomites and lesser black and silver phyllite
- CAMBRIAN MONKTON QUARTZITE**
 - Cm Orange- to buff-weathering, medium-bedded dolomitic marble with lesser but conspicuous massive vitreous quartzite
- CAMBRIAN DUNHAM DOLOMITE**
 - Cdh Dark-gray, medium- to thick-bedded dolomitic marble
- CAMBRIAN CHESHIRE QUARTZITE**
 - Cc Massive, tan, fine-grained, vitreous quartzite
- CAMBRIAN ROCKS OF THE TACONIC ALLOCTHON (Dorset Mtn. slice)**
 - Cg Greenish gray phyllite and metasilstone with rare rusty-spotted feldspathic sandstone
 - Cgq Massive, thick-bedded, medium- to coarse-grained, dark green, brown- to white-weathering, feldspathic quartzite
 - Cgs Greenish gray metasilstone with lesser phyllite
 - Cb Black to gray to silvery, locally pyritiferous, phyllite and lesser slate with rare thin-bedded carbonaceous quartz-pebble conglomerate
 - Cbq Gray to greenish gray, fine-grained vitreous quartzite

Plates 1 and 2 are a paper representation of the digital bedrock geologic information for the Arlington quadrangle and Vermont portion of the Shushan quadrangle located in Bennington County, Vermont. All of the bedrock geology data were obtained from Lytle (1994), and were digitally compiled on a personal computer system using PC ARC/INFO version 3.4.0 Plus by Environmental Systems Research Institute, Inc.. The data shown on Plate 1 were exported to ARC/INFO version 6.1 where solid color fill patterns were generated, and faults were drawn using symbols from a lineset (arcnew61.lin) from ALACARTE software (Fitzgibbon and Wentworth, 1991). The compilation procedures discussed in Walsh and others (1994) were used in the preparation of this report, with the exception of the base map. The topography was obtained from photographic negative separates of contour lines from the Arlington, VT (1987 edition) and Shushan, NY - VT (1944 edition) U.S.G.S. 7.5-minute topographic quadrangles. The negatives were scanned on an IDEAL FSS 8000 raster-format scanner. The raster images were vectorized using GTX OSR Contour version 2.00 by GTX Corporation, Inc., and converted into a single coverage in ARC/INFO version 6.1. The road base was obtained from the Vermont Center for Geographic Information Inc. (VCGI) and the Bennington County Regional Planning Commission (BCRPC). Route 7 and the Route 313 connector between Routes 7 and 7A in the towns of Arlington and Sunderland were digitized from orthophotos by the BCRPC. Route 7 in Shaftsbury and Glazenbury is from the VCGI road coverage and has not been checked against the orthophotos.

These plates are derivative products and should not serve as the primary source for the complete geologic information for this area; the correct reference should be number 2 below:

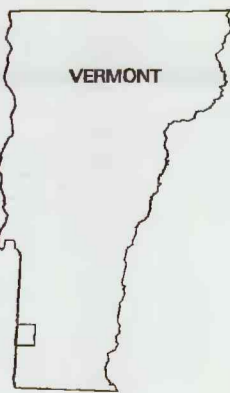
- Fitzgibbon, T.T., and Wentworth, C.M., 1991. ALACARTE user interface: AML code and demonstration maps, Version 1.0: U.S. Geological Survey Open-File Report 91-587.
- Lytle, P.T., 1994. Preliminary geologic map of the Arlington quadrangle and Vermont portion of the Shushan quadrangle, Bennington County, Vermont: U.S. Geological Survey Open-File Report 94-262, scale 1:24000.
- Walsh, G.J., Ratcliffe, N.M., Dudley, J.B., and Merrifield, T., 1994. Digital bedrock geologic map of the Mount Holly and Ludlow quadrangles, Vermont: U.S. Geological Survey Open-File Report 94-229, scale 1:24000.

Topography from the Arlington, VT quadrangle (1987 edition) and the Shushan, NY - VT quadrangle (1944 edition)
Contour interval 20 feet
Map projection is polyconic
Digital map units in State Plane Coordinate System
National Geodetic Horizontal Datum of 1927
Roads from the Vermont Center for Geographic Information, Inc. and the Bennington County Regional Planning Commission.



MN N
Approximate Mean Declination
14° West, 1967

Geology mapped by Lytle in 1993, and assisted by
W. Lansing Taylor in 1993.
Digitized by Gregory Walsh, Thomas Merrifield, and
David Dreher.



LOCATION OF MAP

Digital Bedrock Geologic Map of the
Arlington Quadrangle and Vermont Portion of
the Shushan Quadgrangle, Vermont
By

P.T. Lytle¹

1995

Explanation of Map Symbols

- Contacts
- Outcrops (areas of exposed bedrock examined in this study)
- Thrust fault, teeth on upper plate

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards for with the North American Stratigraphic Code. Any use of trade names is for descriptive purposes only and does not imply endorsement by the U.S. Government.
Plates 1 and 2 are part A and the database is part B of this Open-File Report. Both parts are available from the Vermont Geological Survey, Office of Information Management Services, telephone (802) 241-3488.