

Description of Map Units

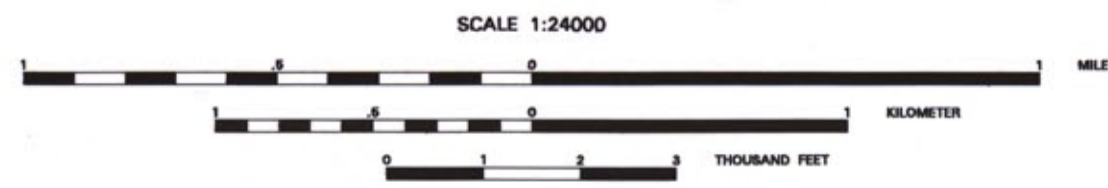
	Ow	ORDOVICIAN WALLOOMSAC FORMATION
		Black to gray pyritiferous phyllite with minor laminated metasilstone
	Ob	ORDOVICIAN BASCOM FORMATION (includes Beldens Fm.)
		Gray, thin- to medium-bedded, calcitic marble with lesser tan dolomitic marble
	Osh	ORDOVICIAN SHELburne FORMATION
		White, medium- to thick-bedded dolomitic marble with green and black streaks
	Ccs	CAMBRIAN CLARENDON SPRINGS DOLOMITE (includes Danby Fm.)
		Dull gray, massive, thick-bedded dolomitic marble with minor thin chert beds
	Cw	CAMBRIAN WINOOSKI DOLOMITE
		Gray, medium-bedded, dolomitic marble with minor sandy dolomites and lesser black and silver phyllite
	Cm	CAMBRIAN MONKTON QUARTZITE
		Orange- to buff-weathering, medium-bedded dolomitic marble with lesser but conspicuous massive vitreous quartzite
	Cdh	CAMBRIAN DUNHAM DOLOMITE
		Dark-gray, medium- to thick-bedded dolomitic marble
	Cc	CAMBRIAN CHESHIRE QUARTZITE
		Massive, tan, fine-grained, vitreous quartzite
	Cg	CAMBRIAN ROCKS OF THE TACONIC ALLOCTHON (Dorset Mtn. slice)
		Greenish gray phyllite and metasilstone with rare rusty-spotted feldspathic sandstone
	Cqk	
		Massive, thick-bedded, medium- to coarse-grained, dark green, brown- to white-weathering, feldspathic quartzite
	Cps	
		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 Lyttle (1994), and were digitally compiled on a personal computer system using PC ARC/INFO version 3.4D 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 (alnew61.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 (1967 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 Glastenbury 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:

1. 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.
2. Lyttle, 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 94-282, scale 1:24000.
3. 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 (1967 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 Lyttle 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 Quadrangle, Vermont

By  
P.T. Lyttle<sup>1</sup>

1995

Explanation of Map Symbols

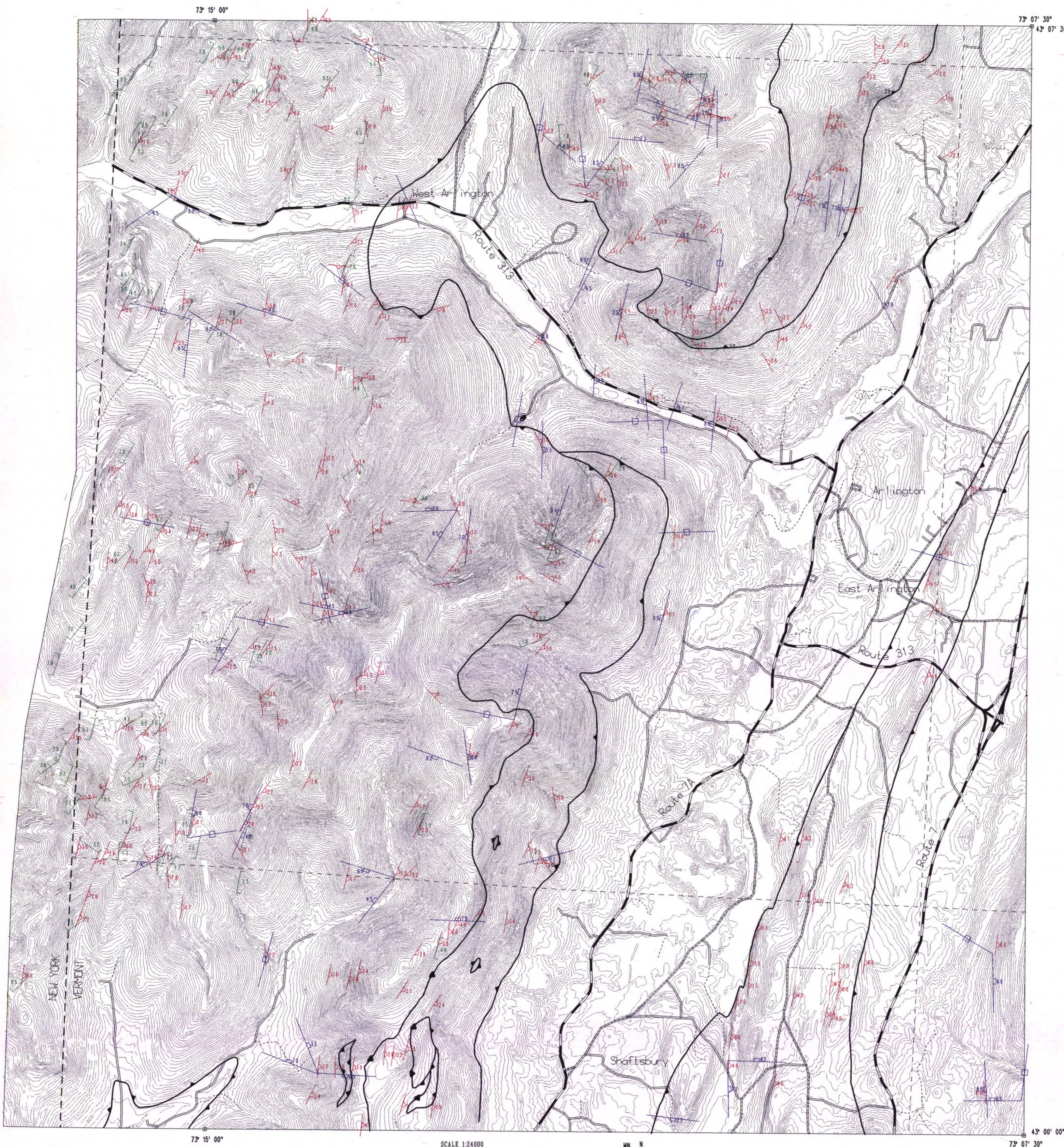
- Contacts
- Outcrops (areas of exposed bedrock examined in this study)
- Thrust fault, teeth on upper plate

AFFILIATIONS:  
U.S. Geological Survey  
Reston, Virginia 22092  
Vermont Agency of Natural Resources,  
Vermont Geological Survey,  
Office of Information Management Services,  
Waterbury, Vermont 05671  
University of Vermont,  
Department of Geology,  
Burlington, Vermont 05405

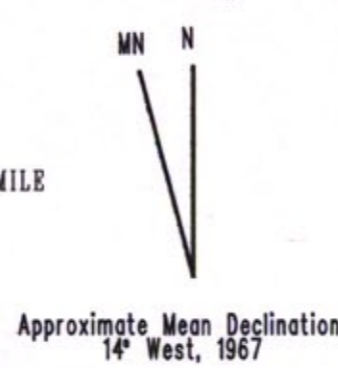
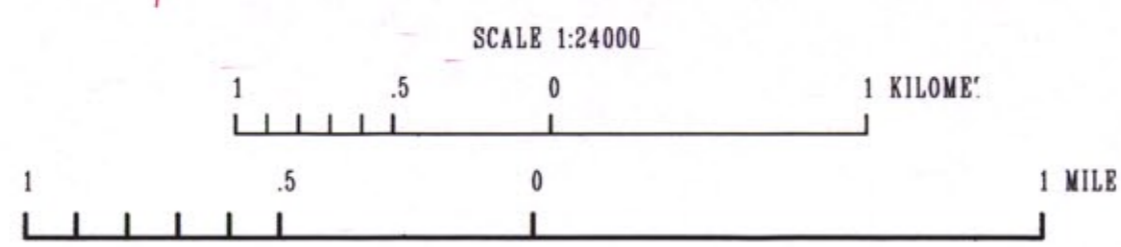
This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards (or with the North American Stratigraphic Code). Any use of trade names is for descriptive purposes only and does not imply endorsement by the U.S. Government.  
Plates 1 and 2 are part 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) 241-3485.

Explanation of Map Symbols

- Schistosity
- Strike and dip of inclined schistosity
  - Strike and dip of vertical schistosity
- Joints
- Strike and dip of inclined joint
  - Strike and dip of vertical joint
- Cleavage
- Strike and dip of inclined cleavage
  - Strike and dip of vertical cleavage
- Thrust Faults
- Strike and dip of thrust fault
  - Strike and dip of overturned thrust fault -- teeth show dip, bar on upper plate



Topography from the Arlington, VT quadrangle (1967 edition) and the Shushan, VT - 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 Vermont Center for Geographic Information, Inc.



Geology mapped by Lytle in 1993, and assisted by  
N. Lansing Taylor in 1994  
Digitized by Gregory Walsh, Thomas Merrifield, and  
David Dreher.



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

By  
P.T. Lytle  
1995

AFFILIATIONS:  
U.S. Geological Survey  
Reston, Virginia 22092  
Vermont Agency of Natural Resources,  
Vermont Geological Survey,  
Office of Information Management Services,  
Waterbury, Vermont 05671  
University of Vermont,  
Department of Geology,  
Burlington, Vermont 05405

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards (or 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.