

Description of Map Units

- Cretaceous**
E Lamprophyre Dike; dark gray to black, fine-grained, igneous rock frequently with biotite and/or amphibole phenocrysts; usually magnetic.
- Ordovician**
Osp Stony Point Shale
 Black calcareous shale with thin interlayers of gray limestone.
- Ob** Bascom Formation
 Gray limestone with brown dolomitic sandy ribs.
- Oc** Cutting Formation
 Massive gray dolostone.
- Os** Shelburne Formation
 White marble locally interlayered with gray dolostone.
- Ordovician- Cambrian**
OCskl Skeels Corners Formation
 "Pinstriped" limestone member; gray limestone with a "pinstriped" fabric defined by dark insoluble layers. Found along/near the Muddy Brook Thrust.
- OCsk** Undifferentiated member; black phyllite with thin, light brown weathering, dolostone layers.
- Cambrian**
Ces Clarendon Springs Formation
 Massive, gray, granular, tan-weathering dolostone with a brecciated texture; breccia fragments may include gray dolostone, black carbonaceous limestone, chert, and crossbedded dolomitic sandstone; weathered masses often have a "brain" texture. Solution generated paleokarst features are prevalent locally. Dolomitic sandstone layers occur near the base and top of this formation. Rounded sand grains found throughout.
- Cda** Danby Formation
 Tan-weathering dolomitic sandstone frequently with well developed cross beds; white quartzite layers are locally found that filled in irregular solution features; interlayered with massive dolostone near the top of the formation; rounded sand grains occur throughout.
- Cw** Winoski Formation
 Tan to white- weathering well-bedded gray dolostone with well developed stylolites; rounded sand grains occur throughout.
- Cm** Monkton Formation
 Reddish-brown, well-bedded, ferruginous sandstone frequently with cross beds, mud cracks, and worm burrows; may also have a white color; interbedded with tan dolostones at the top of the formation.
- Cd** Dunham Formation
 Tan-weathering well-bedded dolostone with a pink and yellow mottled texture; red jasper breccias occur near the base of the formation.
- Ccu** Cheshire Formation
 Upper member; light gray dolomitic quartzite and dark gray, shaly, dolomitic siltstone (description modified from Dorsey et al., 1983).
- Ccl** Lower member; gray, thinly laminated argillaceous quartzite (description modified from Dorsey et al., 1983).

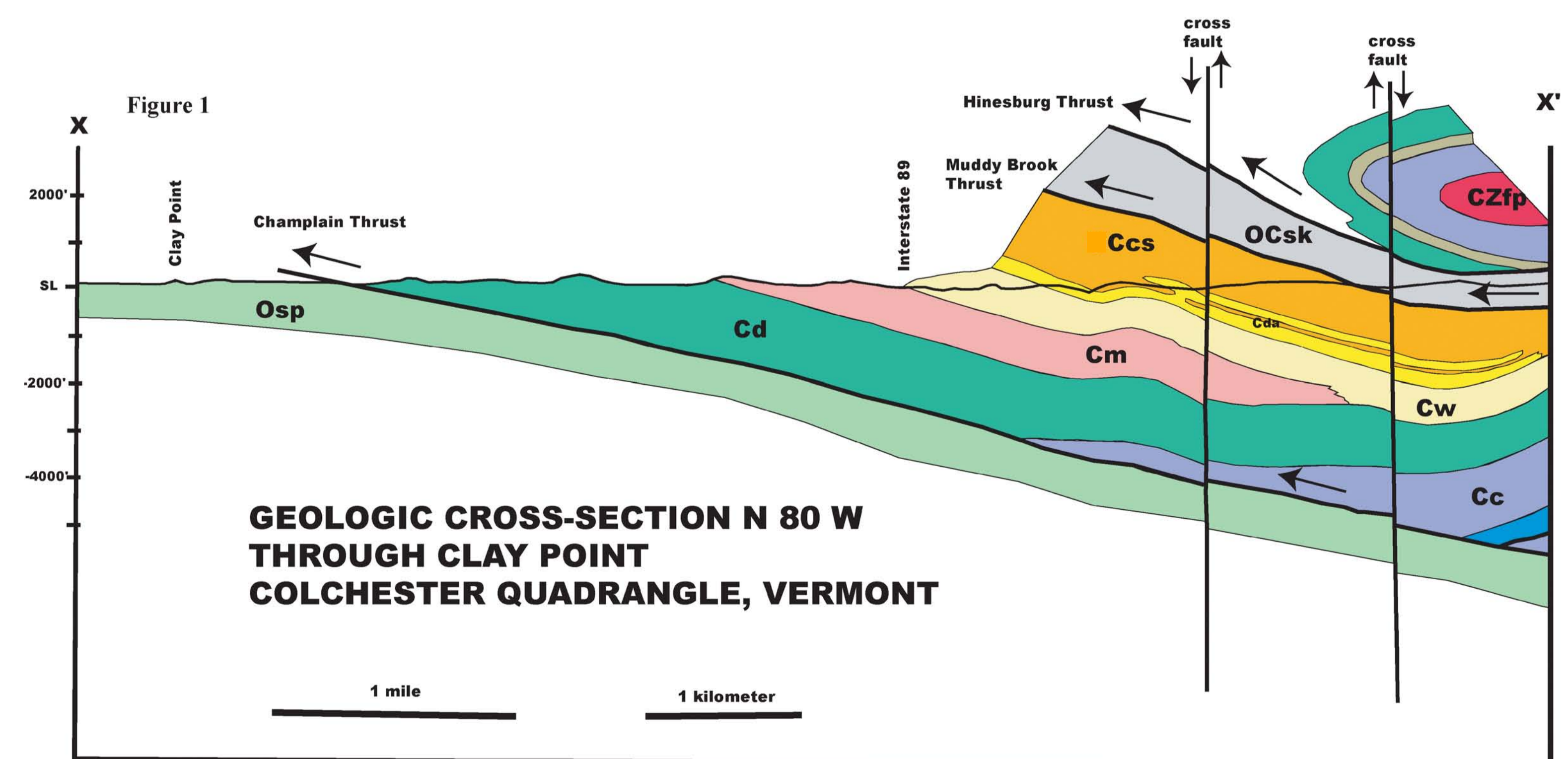
* The map pattern of lithologies east of the Hinesburg Thrust is modified from Dorsey et al. (1983).

Geologic Map Symbols

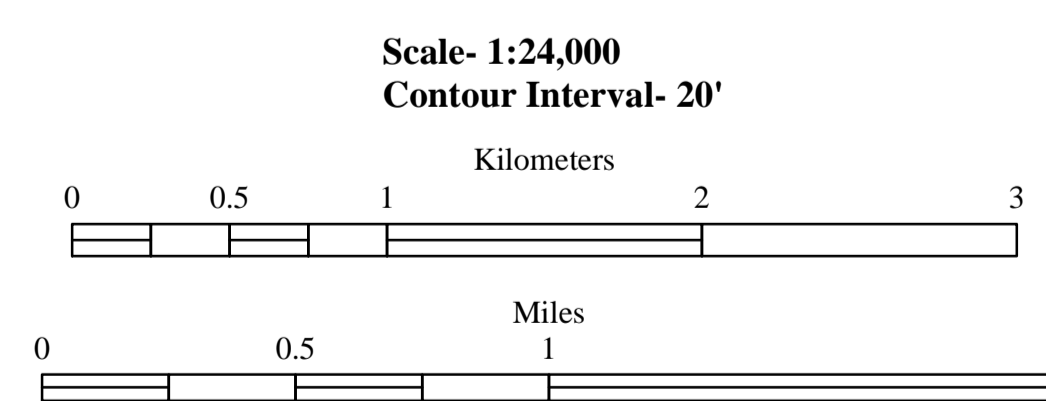
- Thrust Fault (teeth on upper plate).
- Normal Fault (D=down, U=up).
- Syncline
- Anticline
- Strike and Dip of Bedding (S0)
- Cleavage (S1)
- Large Outcrops
- Field Station

Geographic Symbols

- Surface Water
- Lake or Pond
- Stream
- Roads
- Interstate
- US Highway
- Vermont State Highway
- Town Highway
- Other Road
- Legal Trail



Dolostone of the Clarendon Springs Formation.

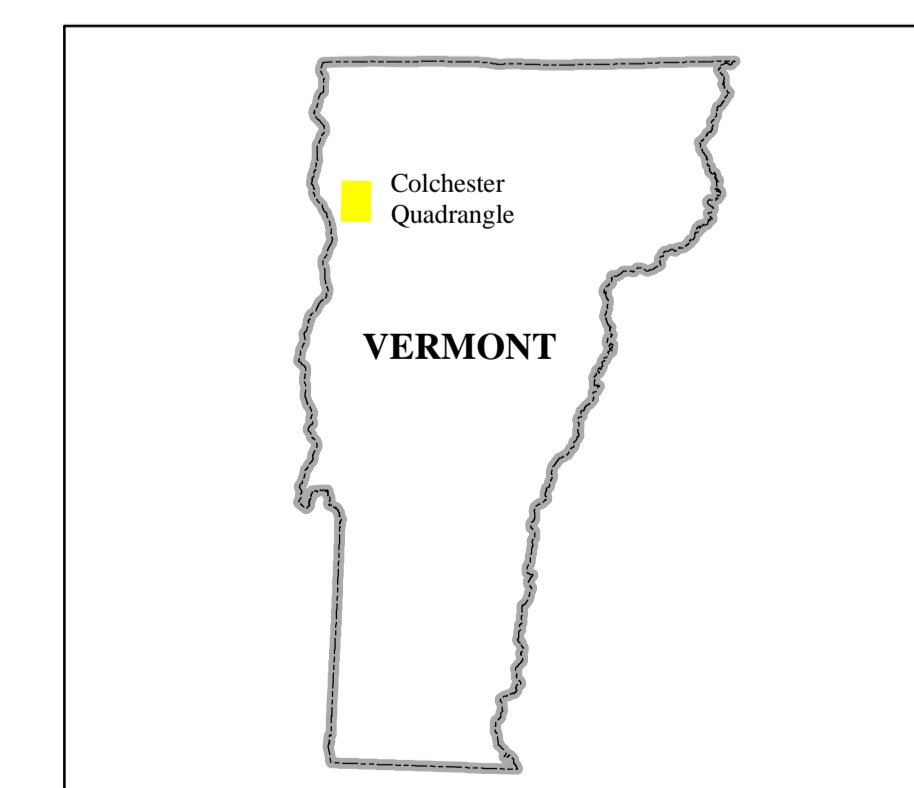


Bedrock Geologic Map of the Colchester Quadrangle

Authors: Jonathan Kim and Peter Thompson (2001)



Mesozoic dike in the Monkton Formation.



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Base map from VT Statewide Hydro DEM (contours and surface water) and VT Agency of Transportation (roads) Coordinate System: Vermont State Plane, meters, NAD 83. Grid overlay on map is Universal Transverse Mercator, Zone 18N, NAD 83. Digital Cartography by Jonathan Kim Date: April, 2011

References

Dorsey, R.J., Agnew, P.C., Carter, C.M., Rosencrantz, E.J., and Stanley, R.S., 1983, Bedrock Geology of the Milton Quadrangle, Northwestern Vermont, Vermont Geological Survey Special Bulletin #3, Scale 1:62,500.