

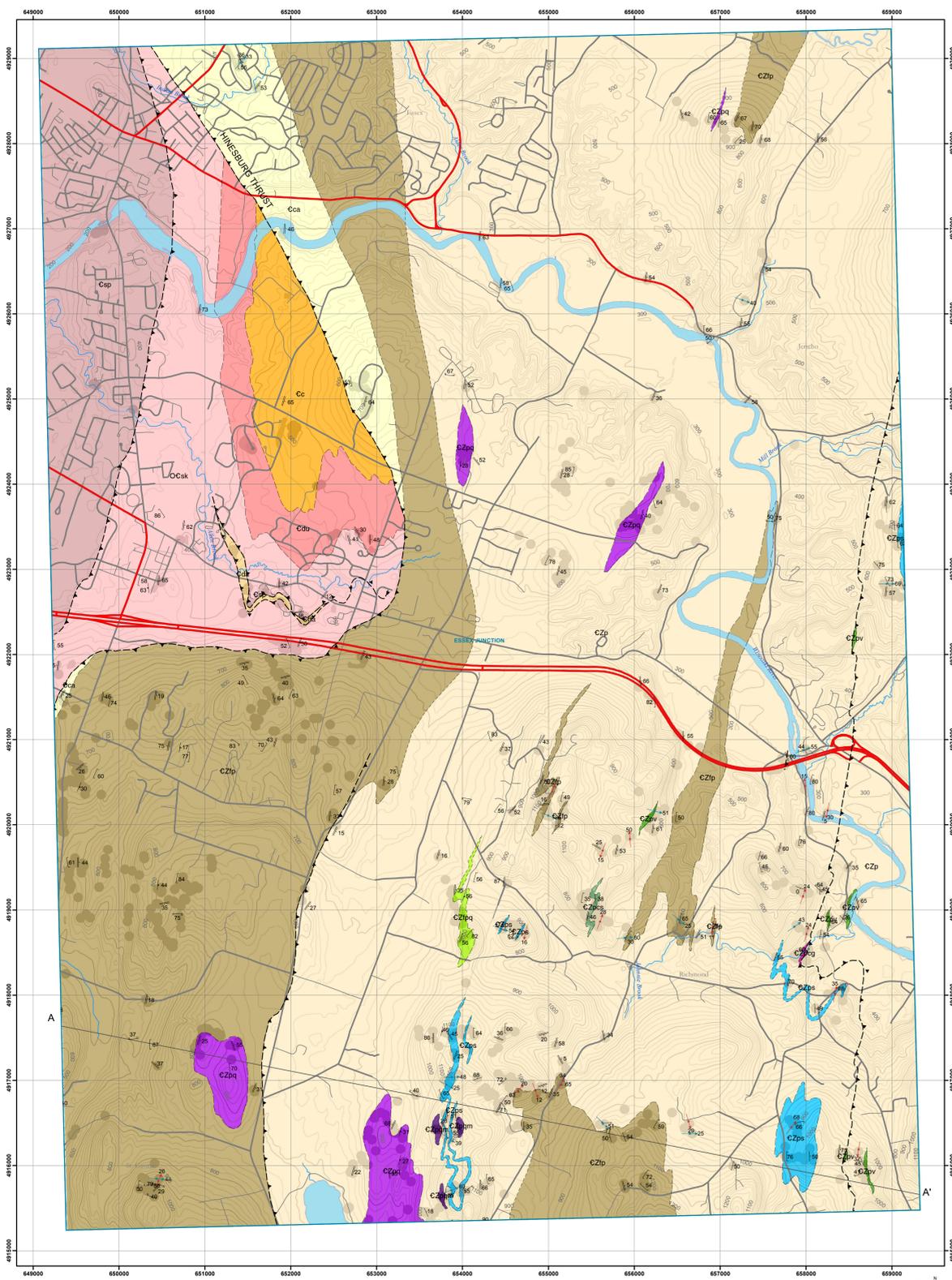
**Legend**

- Lower Ordovician to Cambrian**
- OCsk** Skeels Corners Slate - Dark gray to gray phyllite and laminated slate with thin (1-5 mm) orange-weathering dolomite layers.
- Cambrian**
- Csp** Clarendon Springs Formation - Light to dark gray, massive, granular, recrystallized dolostone and breccia with chert and dolostone clasts.
  - Cda** Danby Formation - Fine to medium grained, gray dolomitic sandstone, commonly with visible rounded gray quartz sand grains.
  - Cdu** Dunham Formation - Tan to brown weathering, buff to light gray, massively bedded dolostone.
- Cheshire Formation**
- Cc** Cheshire Formation - Light to dark gray, massive, fine to medium grained quartzite and argillaceous quartzite.
  - Cca** Argillaceous quartzite member - fine to medium grained, gray and rusty weathering, dark gray argillaceous quartzite with abundant quartz veins.
- Cambrian to Neoproterozoic**
- Fairfield Pond Formation**
- CZfp** Fairfield Pond Formation - Silvery tan and rusty weathering, light green to gray, phyllite, schist and phyllitic granofels; locally interbedded with dark gray argillaceous quartzite; interlayered with Pinnacle Formation.
  - CZfpq** Quartzite member - rusty weathering, dark gray argillaceous quartzite and dark gray schist, occurs locally north of Christmas Hill Rd.
- Pinnacle Formation**
- CZp** Pinnacle Formation - light to medium gray, foliated to massive to pinstriped, muscovite-chlorite-biotite-feldspar-quartz schist, wacke and phyllite; commonly with blue quartz pebble conglomerate beds. Includes thick (up to 3 meters) bedded metawacke and quartzite, banded quartzite and pinstriped (1-2 mm) metawacke and schist. Bedding is commonly transposed and two generations of pinstripes are evident. Interlayered with metavolcanic rocks and chlorite schist.
  - CZpqs** Large cobble conglomerate member - poorly sorted cobble conglomerate in a chaotic dolomitic phyllite matrix. Cobbles include gneiss, quartzite, quartz, limestone, dolostone, slate and felsic igneous rock. Some clasts appear stretched; clasts decrease in size to the west within 5 meters. Occurs locally south of Johnnie Brook Road at east side of quadrangle.
  - CZps** Metawacke and schist member - light to dark gray and gray-green, fine to medium grained schist and striped schist with magnetite.
  - CZpq** Quartzite member - Coarse-grained, massive conglomerate with rounded blue-quartz pebbles; includes medium grained, massive, thick (1-3 meter) bedded, light and dark gray banded quartzite (CZpqm)
  - CZpqh**
  - CZpsc** Chlorite schist - rusty weathering, fine grained, medium green chlorite schist; interbedded with CZp and CZpv.
  - CZpv** Greenstone member - rusty weathering, dark green, fine grained, epidote-albite-chlorite metavolcanic and calcareous greenstone; interbedded with CZp.
- | Strike and dip of bedding, commonly transposed (S0/S1)  
 | Strike and dip of compositional layering (S1)  
 | Strike and dip of schistosity and shear bands (S2)  
 | Strike and dip of older crenulate cleavage and associated axial planes of tight to open folds (F3) which deform compositional layering (S1)  
 | Strike and dip of superposed axial plane crenulate cleavage (F4)  
 - - - Trend and plunge of fold axis and crenulate lineation (L3)  
 - - - trend and plunge of fold axis (L4)  
 - - - Contact, long dash where approximate, short dash where inferred  
 - - - Thrust fault, teeth on upper plate  
 ● Field Station  
 — Cross Section Line  
 — Roads  
 — Water  
 — USGS Quadrangle Boundary

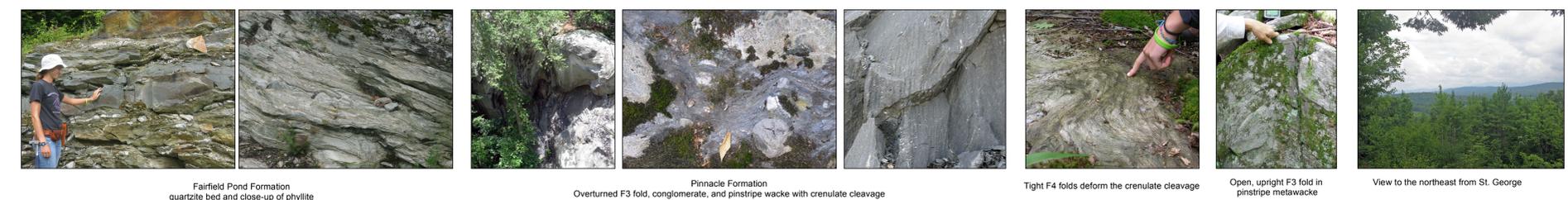
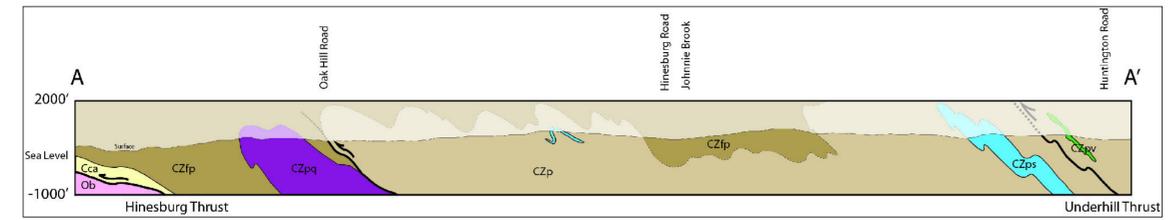
References and acknowledgements:  
Mapping was completed in 2007 for the Town of Williston and is available as:  
Kim, J., Gale, M., Thompson, P.J., and Derman, K., 2007. Bedrock geologic map of the town of Williston, Vermont. Vermont Geological Survey Open File Report VG07-4, scale 1:24,000.  
Mapping in the remainder of the quadrangle was completed in 2012 as part of this report.



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The 20 ft contours were generated using the VT's "hydrologically corrected" Digital Elevation Model (VTHYDRODEM) available through VCGI.org. The hydro digital elevation model was processed using Spatial Analyst's focal statistics tool to smooth the dataset. Coordinate system: Vermont State Plane, meters, NAD 83. Grid overlay is Universal Transverse Mercator, Zone 18N, NAD 83. Digitization and digital cartography: M. Gale, 2012



**OPEN FILE REPORT VG12-3:  
BEDROCK GEOLOGIC MAP OF THE ESSEX JUNCTION, VERMONT 7.5 MINUTE QUADRANGLE**  
by  
**Marjorie Gale, Jonathan Kim and Abigail Ruksznis**  
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