

Outline for proposed 2018 NEIGC field trip

Faults of all kinds in the map of the Ordovician Champlain thrust zone around southern Lake Champlain

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The field trip will visit outcrops in the area of Whitehall NY and West Haven VT showing exposures of strands of the southern extension of the Champlain Thrust, as well as the westernmost thrust carrying Taconic Allochthon slates, and the easterly-downthrown Mettawee River normal fault which cuts both Champlain thrust and Taconic thrust strands. Exposures of NE-striking steeply-dipping faults with visible strike slip displacements of both left- and right-lateral sense, which at West Haven cut both thrusts and the Mettawee River fault, will also be visited. High vein fluid inclusion temperature data suggest that these strike-slip faults are also Ordovician in age. Outcrops covering a persisting stratigraphic fault, caused by failure of the compiler of the recent geological map of Vermont to recognise the presence of the extension of the Pinnacle Thrust in this area, will also be included.