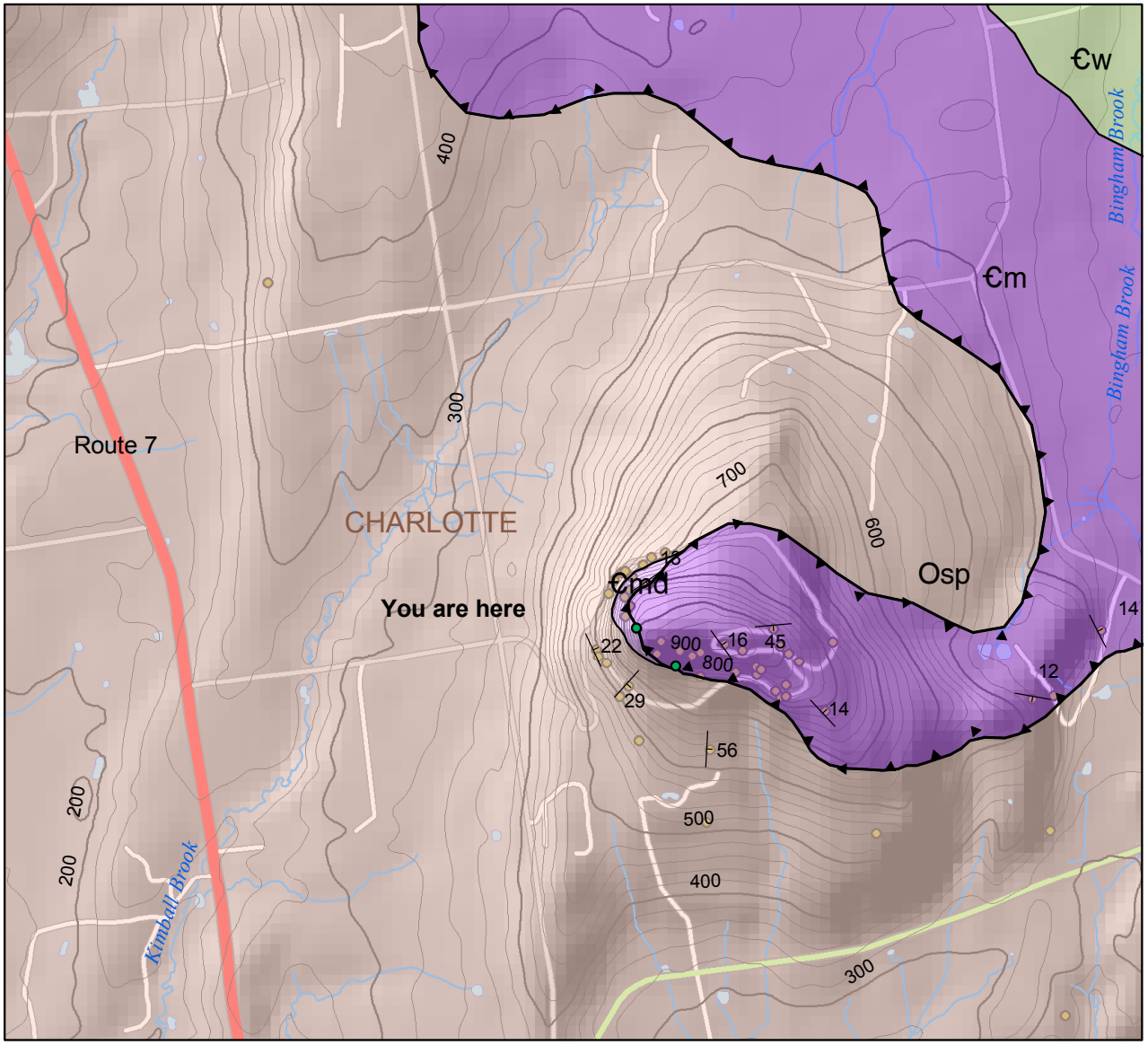

Legend

Cambrian (544-495 mya)

- Cw — Winooski Dolomite
- Cm — Monkton Quartzite
- Cmd — Red-brown quartzite and dolostone (Cmd) (on upper plate of the Champlain Thrust Fault)

LOWER PLATE ROCKS - Ordovician (495-441 mya)

- Osp — Stoney Point Formation - gray calcareous shale

Champlain Thrust fault
The Champlain Thrust Fault, exposed in western Vermont along the shores of Lake Champlain, extends from Canada south to the Catskill Plateau in New York, a distance of approximately 199 miles. The thrust is a late Taconian, east-dipping fault which places older Cambrian rocks on top of highly-deformed Middle Ordovician shale, with an estimated throw of 8,850 feet at Lone Rock Point. Displacement along the fault is estimated to be 35 to 50 miles (Stanley, 1987).

Strike and dip of bedding

Bedrock Geology of Mt. Philo from Gale et al, 2009

600 300 0 600 Meters

4,000 2,000 0 4,000 Feet

N

Mt. Philo, Charlotte, Vermont