

Mapping by N.W. Hayman, J. Granducci,  
and W.S.F. Kidd

Compilation by N.W. Hayman and  
W.S.F. Kidd

# Geology of the Shoreham-Benson area, Vermont

## Lithologic Units

- 13 Calcareous grey Slate  
(*Poultney or Browns Pond*)
- 12 Black "sooty" slate/shale Interbedded  
with Brown Dolomitic Sandstone/Siltstone  
(*Hatch Hill /W. Castleton*)
- 11a Non-Calcareous Green Slate (11a),  
beds and lenses of Quartzite (11b),  
Veins of Calcite and Quartz  
(*Bull*)
- 10c Non-Calcareous Black and grey Slate,  
Quartz and Calcite Veins,  
(*Taconic dark slates*)
- 10b Melange - Strongly Tectonized,  
Phacoidal Cleavage,  
Clasts of Limestone and Quartzite,  
Veins of Calcite and Quartz  
(*Taconic Melange/ Forbes Hill cgl*)
- 10a Black Non-Calcareous Shale / Slate,  
Weathers to Red/Rust Color  
Fissile, Poorly Developed Slaty Cleavage  
(*Hortonville*)
- 9b Non-Calcareous Shale and slate  
interbedded with silty greywackes  
(*Iberville*)
- 9a Calcareous Shale  
(*Stony Point / Cumberland Head*  
uppermost portion of *Glens Falls*)
- 8 White-weathering cleaved Limestones  
(*Orwell; ?-transported Middlebury*)
- 7 Light Blue/Grey Fossiliferous Limestone  
(*Middlebury/Chazy*)
- 6s Undifferentiated Limestones  
(*Middlebury, Orwell and lower Glens Falls*)
- 6c Tan-weathering Massive Dolostone,  
Extensively fractured and veined (calcite)  
(*Providence Island*)
- 6b Light Blue/Grey limestone,  
Dolomitic Sections, Fossiliferous (*Sciota*)
- 6a Dark Grey Dolostone with Fine  
Laminations of Quartz Silt  
(*Ward*)
- 5 Dark Grey Dolostone,  
Quartz and Calcite Nodules (*Fort Ann*)
- 4c Light Grey Limestone  
(*Smith's Basin*)
- 4b Massive White Dolostone  
(*Fort Edward*)
- 4a Dolomitic Quartz Sandstone / Siltstone  
prominent cross-bedding (*Winchell Creek*)
- 3 Light Grey Dolostone, Chert Rich Sections  
(*Whitehall*)
- D Undifferentiated tan-weathering Dolostones  
(*Beekmantown correlatives*)
- 2 Tan-weathering Quartz-rich Dolostone  
(*Ticonderoga*)
- 1 Grey quartzite, Cross-Bedded (*Potsdam*)

## Symbols

- Cleavage
- Bedding
- Anticline
- Syncline
- Cleavage/Cleavage  
Intersection Lineation
- Stretching Lineation
- Normal Fault
- Thrust Fault
- Lateral Ramp/  
Normal Fault
- Inferred Structural  
Boundary
- Stratigraphic  
Contact
- outcrop location

