

Description of Map Units

Devonian	
Dog	New Hampshire Series Granite Fine-medium grained biotite granite with orbicules of gray phyllite Contacts modified from Konig and Dennis (1964).
Dg	Fine-medium grained biotite granite. Contacts modified from Konig and Dennis (1964).
Silurian-Devonian	
DSwrm	Waits River Formation Brown weathering, gray phyllitic and bedded sandy marble; interlayered with subordinate amounts of gray phyllite; marble "beds" can exceed 20' in thickness.
DSwri	Silvery gray phyllite interlayered with subequal amounts of phyllitic sandy marble and calcareous phyllite.
Silurian	
Sn	Northfield Formation Silvery gray - dark gray phyllite, phyllitic granofels, and gray quartzite; isolated phyllitic sandy marble layers may occur locally; sometimes rusty-weathering; composed primarily of sericite, chlorite, and quartz; crossed biotites are common.
Ss	Shaw Mountain Formation Brown weathering, white, dolomitic marble
Ordovician	
Ochg	Cram Hill Formation Dark green mafic schist (greenstone) composed primarily of albite and chlorite
Och	Dark gray - black rusty weathering phyllite and phyllitic granofels composed primarily of sericite, chlorite, quartz, +/- graphite; thin mafic schist layers occur locally.
Cambrian- Ordovician	
COM	Moretown Formation Grayish-green phyllitic granofels commonly with a "pinstriped" tectonic fabric; phyllitic and massive varieties are frequently interlayered; dominantly composed of quartz, chlorite, and sericite; thin gray phyllite layers are common near the eastern boundary; greenstone and metadiabase occur locally.

Explanation of Map Symbols

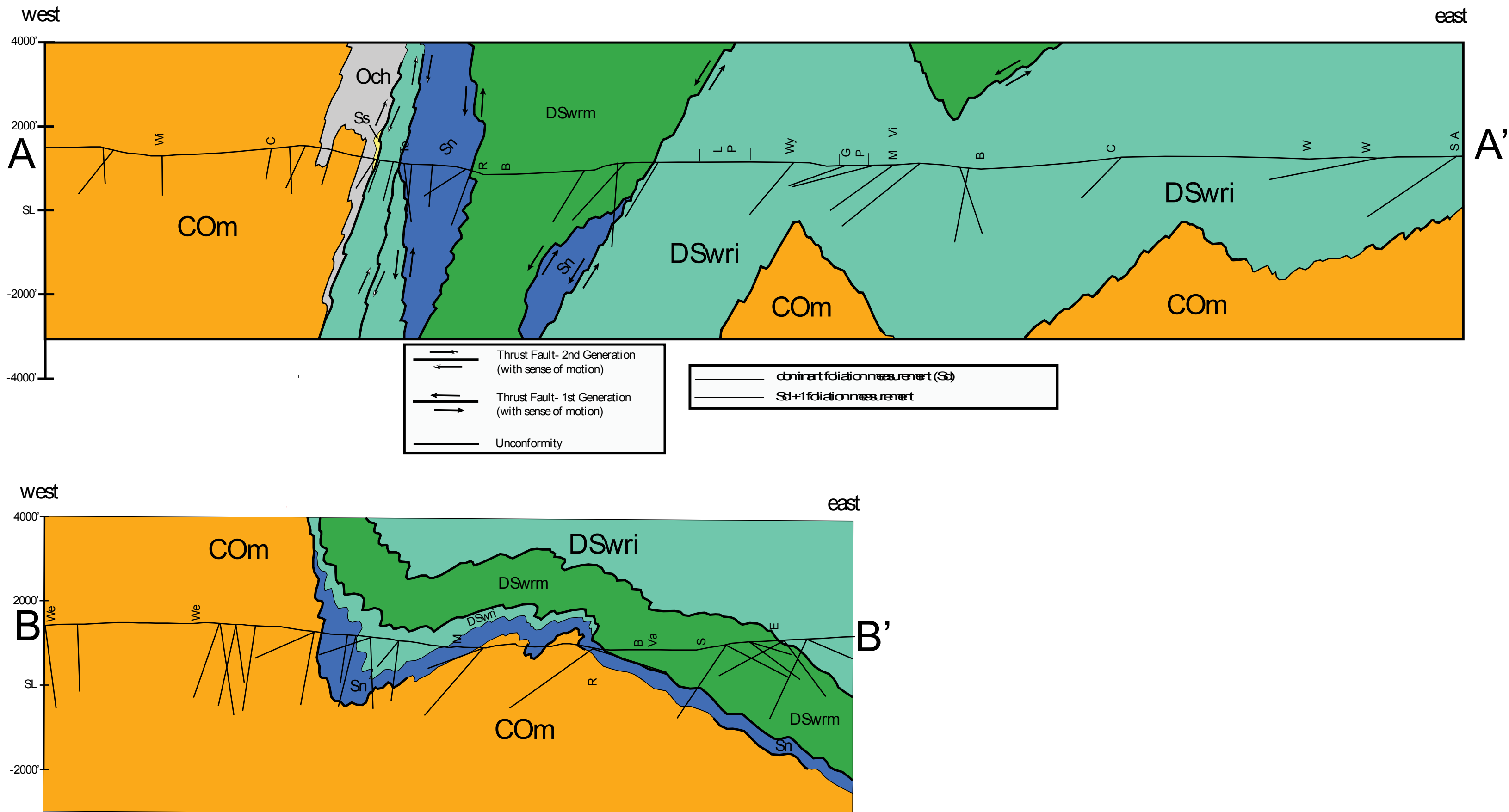
Lithologic Contacts	
---	approximate
—	known
Thrust Fault- 1st Generation	
—▲—	approximate
—▲▲—	known
Thrust Fault- 2nd Generation	
—▲—	approximate
—▲▲—	known
Unconformity	
— —	
Garnet Isograd	
---	modified from Konig and Dennis (1964)
Outcrop Locations	
▲	Field Stations - this study
●	Selected Field Stations - Konig+Dennis (1964)
■	Selected Field Stations - Maynard (2004)
Structural Symbols	
↗45	Inclined dominant foliation
↑	Vertical dominant foliation

Bedrock Geologic Map of the Town of Craftsbury, Vermont

Authors: Jonathan Kim, Marjorie Gale, Maggie McMillan, Scott Zolkos, and George Springston

Base map from U.S. Geological Survey.
Quadrangle names printed in blue.
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 and Marjorie Gale
Date: September, 2010

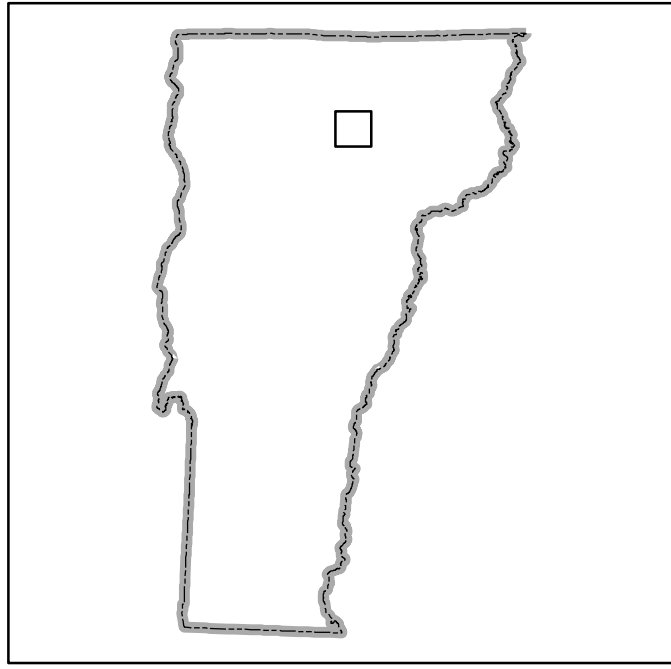
Research supported by the Vermont Geological Survey, Dept. of Environmental Conservation, VT ANR. This geologic map was funded in part by the USGS National Cooperative Mapping Program. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.



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Konig, R.H. and Dennis, J.G., 1964, The Geology of the Hardwick Area, Vermont Geological Survey Bulletin #24, 57 p., 2 plates, scale 1:62,500.

Maynard, D.M., The Johnson Co., 2004, Surficial Geology of the Upper Reaches of the Wild Branch River Watershed, Craftsbury and Eden, Vermont, prepared for the Vermont Geological Survey, 16 p., 3 plates.



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Figure 1- All Structural Symbols on Geologic Base Map

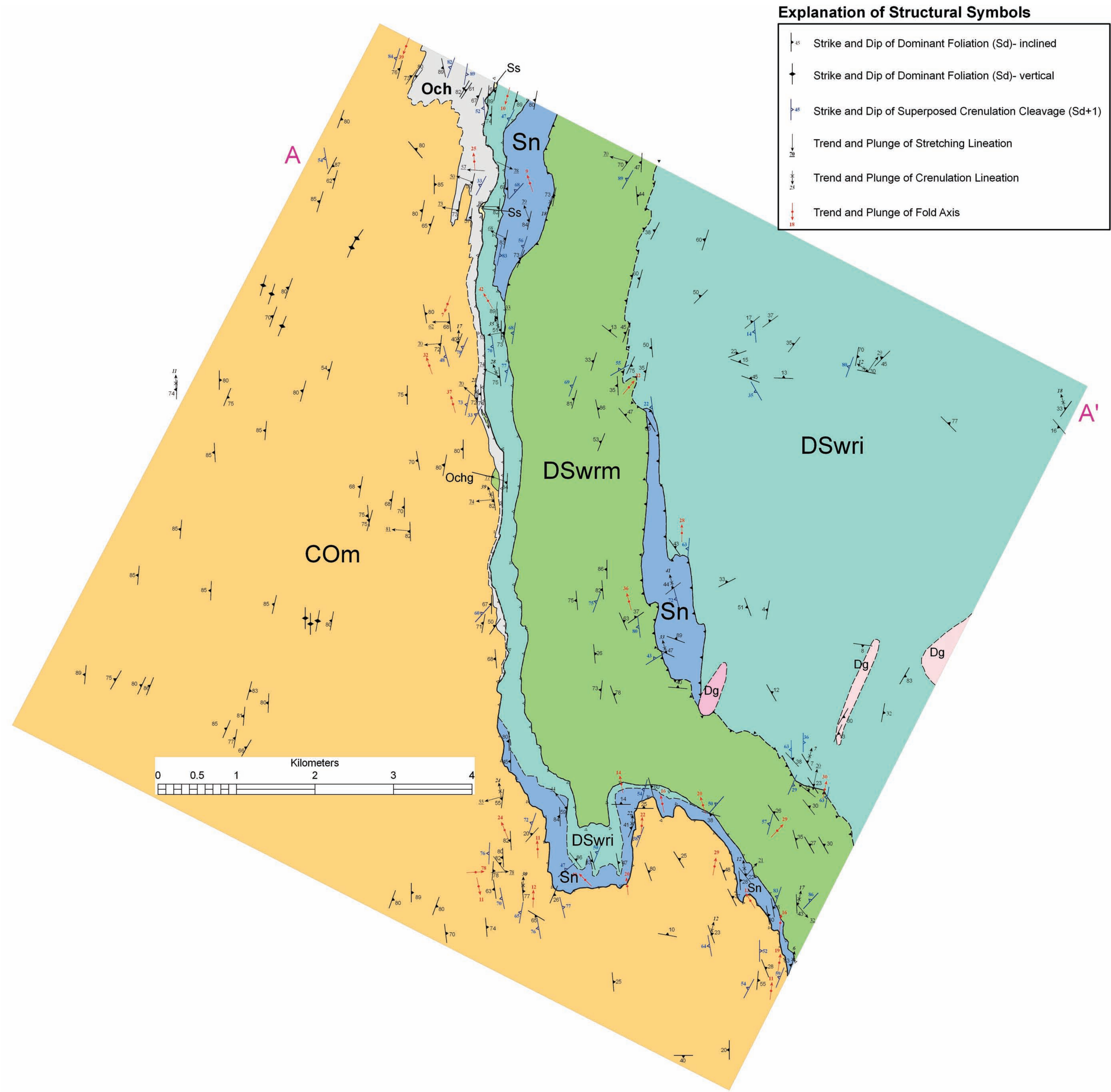
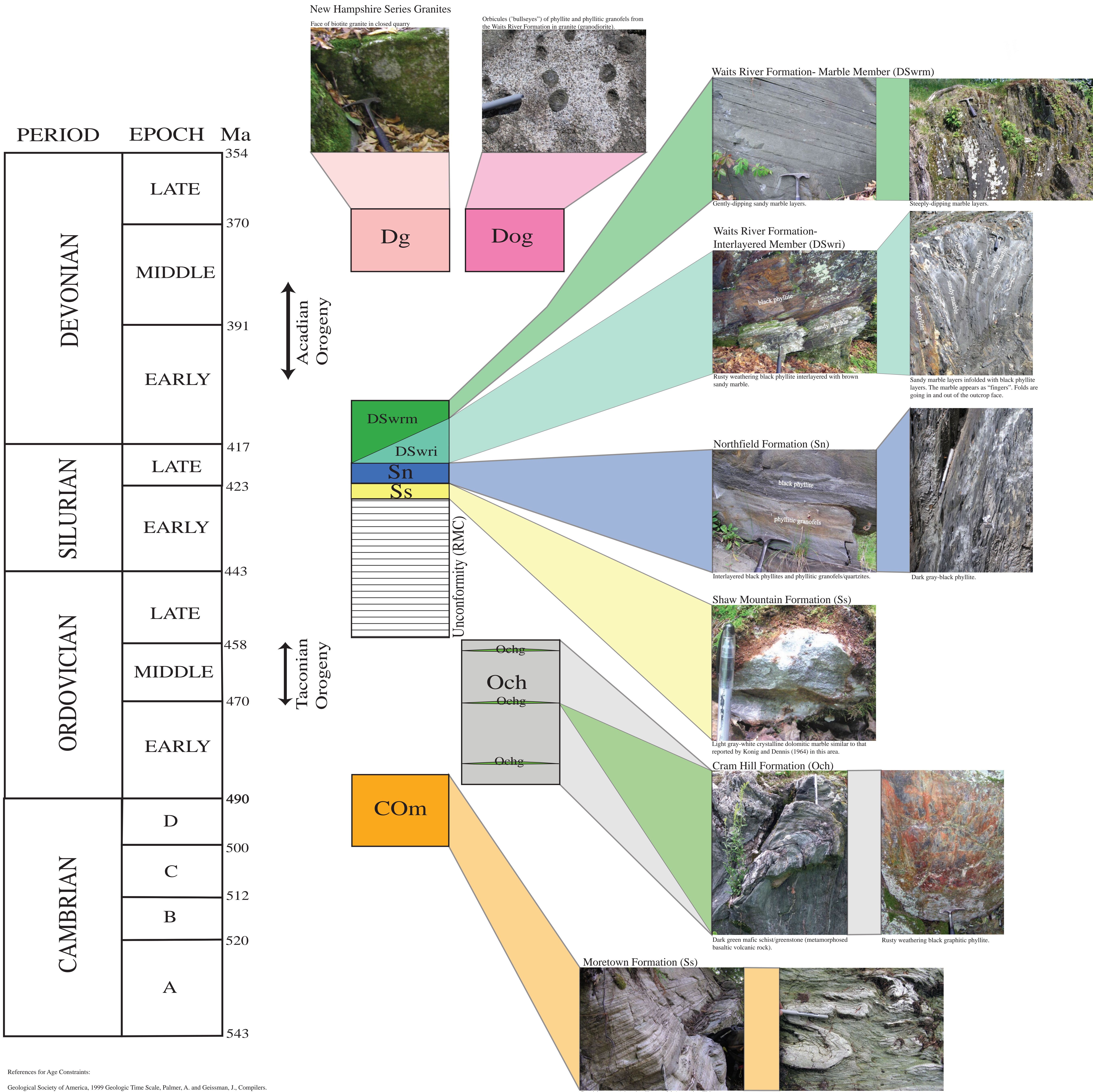


Figure 2- Pre-Silurian vs. Silurian-Devonian Lithologies



Since structural symbols in Figure 1 have not yet been broken out by generation, Figure 2 is a simplified index map that shows the division of metamorphic rocks into Pre-Silurian and Silurian-Devonian lithologic packages. The Pre-Silurian rocks were deformed and metamorphosed by the Ordovician Taconian and Devonian Acadian orogenies whereas the Silurian-Devonian rocks were only affected by the Devonian Acadian Orogeny.



References for Age Constraints:

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