

Geological Map of the Epping 7.5 Minute Quadrangle Southeast, New Hampshire Geology By: Schulz, J. E. and Loveless, J. P.



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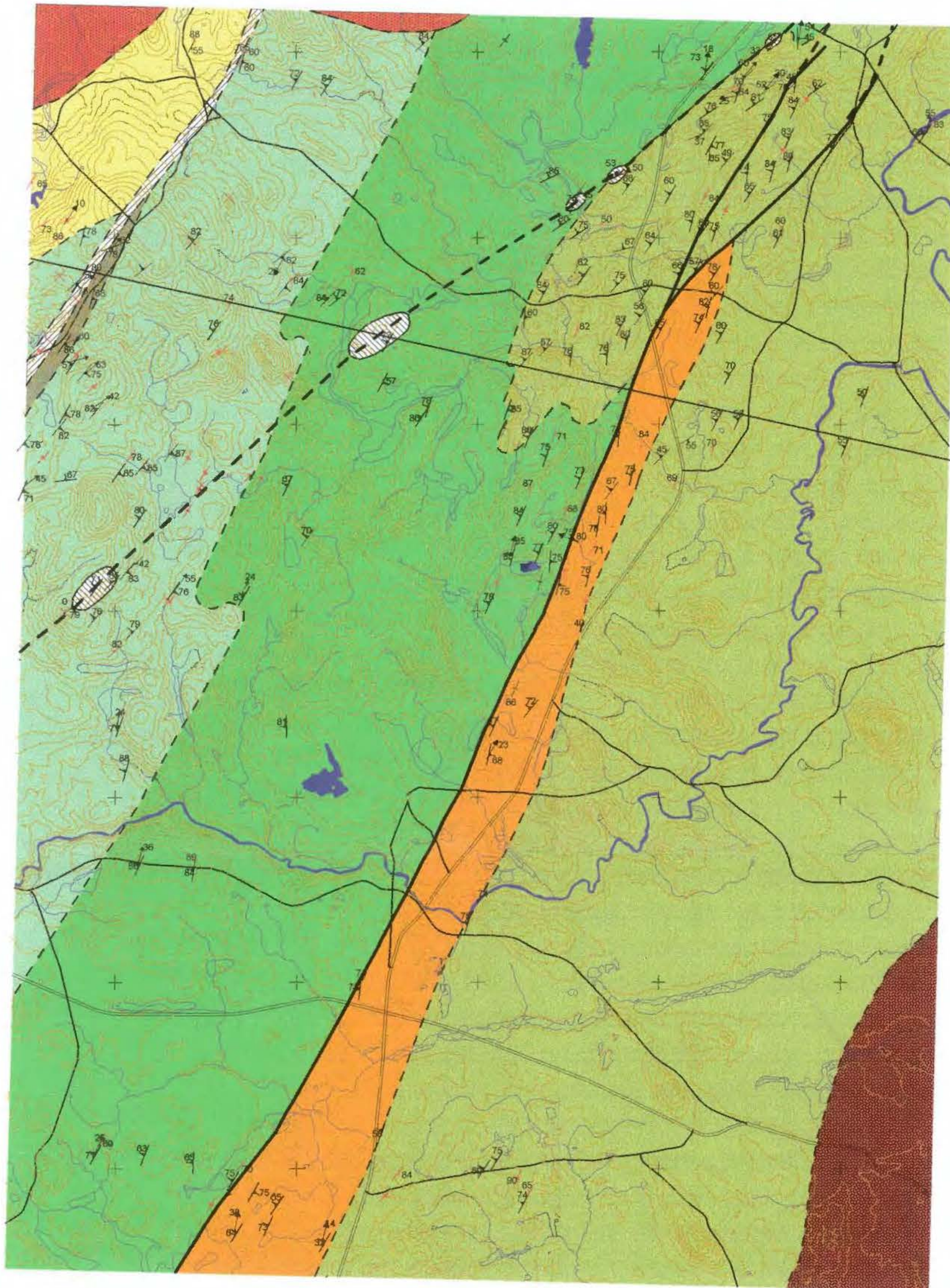
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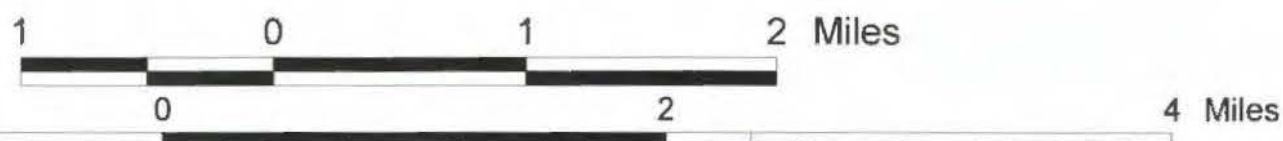
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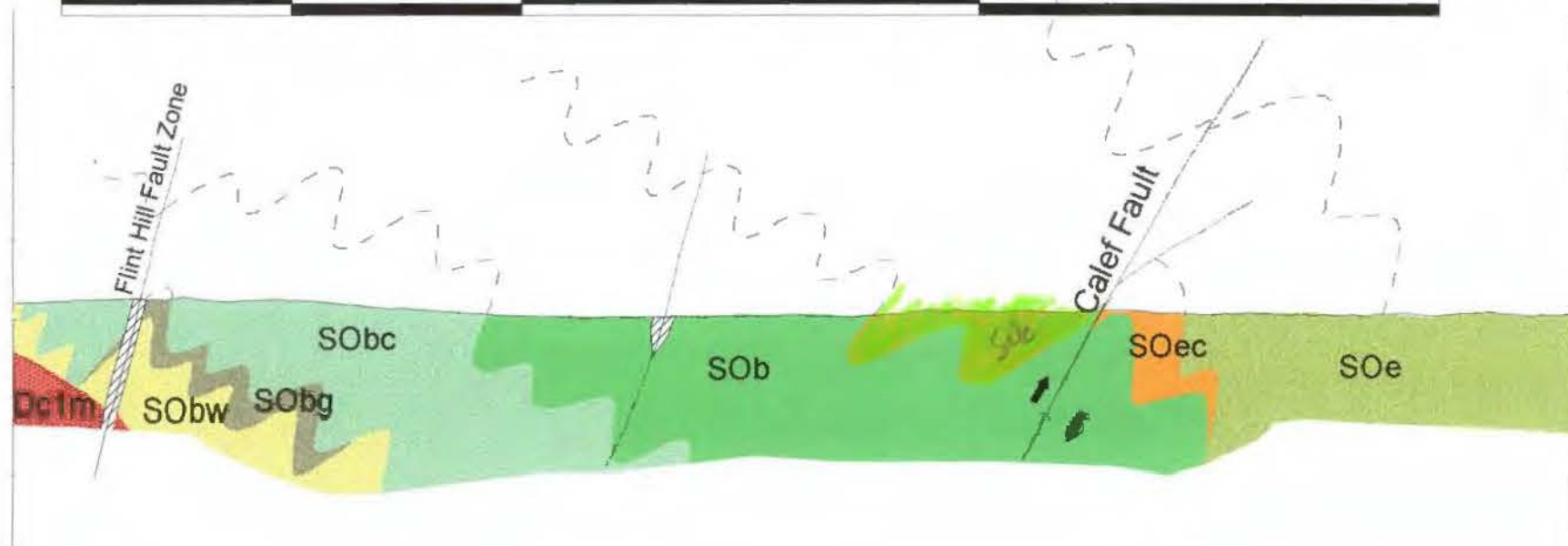
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Scale 1:48,000
Contour Interval 20 ft

UNH Complex Systems Research Center
www.granit.sr.unh.edu
Data projection:
1000 UTM Grid, zone 19
1927 North American Datum



16° N



Lithological Descriptions

Silicified Zone
Composed of bull quartz boudins and quartz veins marking the Flint Hill Fault Zone and other faults.

New Hampshire Plutonic Series

Dc1m - Concord Granite
Gray two-mica granite (Late Devonian)

Ded- Exeter Diorite
Light to dark gray, medium to coarse grained diorite containing hornblende, plagioclase, biotite, and quartz. (Early Devonian)

Metasedimentary Rocks of the Merrimack Group

SOe - Eliot Formation
Gray to brown weathering calcareous metasediment containing quartz, muscovite, calcite, biotite and ± plagioclase and quartz. (Siluro-Ordovician)

SOec - Calef Member
Dark Gray rusty and locally maroon weathering graphitic phyllite containing muscovite, chlorite, quartz, and locally fibrolite. (Siluro-Ordovician)

SOb - Berwick Formation
Purple gray quartz biotite granofels with up to 10% calc-silicate layers containing quartz, plagioclase, epidote, chlorite, and amphibole. (Siluro-Ordovician)

SObc - Unnamed Member
Contains a greater percentage of calc-silicate layers than the Berwick Formation (15-30% of the outcrop). (Siluro-Ordovician)

SObg - Gove Member
Dark gray to gray weathering schist containing staurolite, garnet, plagioclase, quartz, and locally sillimanite. Western boundary of unit is marked by Flint Hill Fault Zone. (Siluro-Ordovician)

SObg - Watson Hill Member
(Central Maine Terrane?)
Dark gray coarse-grained schist containing muscovite, quartz, plagioclase, garnet, and sillimanite. (Siluro-Ordovician?)

Map Units and Symbols

- | | | | |
|--|---------------------------------------|------------------------------|---|
| | So and S1 Compositional Layering | | Joint |
| | Horizontal | | Vertical Joint |
| | Overturned | | Pegmatite |
| | Vertical Compositional Layering | | Axial Trace of Synform
(dashed where approximate) |
| | S2 Foliation or dominant foliation | | Axial Trace of Antiform
(dashed where approximate) |
| | Vertical S2 Foliation | Faults | |
| | S3 Cleavage | | Known Contact |
| | S4 Cleavage | | Approximate Contact |
| | Trend and Plunge of F2 Folds | | Primary Road |
| | Trend and Plunge of mineral lineation | | Secondary Road |
| | | Lithological Contacts | |
| | | | Known |
| | | | Approximate |