

LEGEND

**CENOZOIC**

**QUATERNARY**

- Ql: Landslide

**MESOZOIC**

**JURASSIC**

White Mountain Plutonic Volcanic Series #

- v: Volcanic Vent
- dw: Diorite (Fine- to medium-grained black diorite composed chiefly of andesine, amphibole and biotite)
- p: Pegmatite (Coarse- to medium-grained, composed mostly of feldspar, quartz and mica)
- co: Concord Quartz Monzonite (Medium-grained light-gray composed of potash feldspar, oligoclase, quartz, biotite and muscovite)
- k: Kinsman Quartz Monzonite (Medium-grained, gray, weakly foliated, with phenocrysts of potash feldspar one inch long in a matrix of oligoclase, potash feldspar, quartz, biotite and muscovite)
- dn: Diorite (Principal minerals are Labradorite, amphibole and biotite; grain size and ratio of minerals, as well as color of rock, differ greatly)

**DEVONIAN**

New Hampshire Plutonic Series

- qd: Quartz Diorite (Medium-grained, dark gray, composed of andesine, quartz and biotite)
- Disg: Littleton Formation (Disg—interbedded mica schist and micaceous quartzite; Dlb—Boott Member-limeschist rocks; Dlg—gray paragneiss composed of heterogeneous mixture of quartz, andesine, biotite and muscovite; Dll—lime-silicate rocks; Dic—quartz conglomerate)

**PALEOZOIC**

**DEVONIAN**

**Early**

- Disg, Dlb, Dic, Dll, Dlg

**ORDOVICIAN**

Oliverian Plutonic Series

- bqm: Biotite Quartz Monzonite (Medium-grained, pink to gray, granulated, in many places foliated and/or lined, composed of oligoclase-andesine, quartz and biotite)
- Oam: Ammonoosuc Volcanics (Chiefly amphibolite and fine-grained light-gray biotite gneiss)

**CONTACTS**

- Located within a few hundred feet or closer, rarely observed
- Approximate only because of thick cover of glacial drift
- Contact of plutonic body not sharp because of numerous dikes and sills of plutonic rock in adjacent rocks
- Continuity of rock unit inferred

**PLANAR STRUCTURES\***

- Strike and dip of inclined bedding (including overturned beds)
- Strike of vertical bedding
- Horizontal bedding
- Strike and dip of inclined foliation
- Strike of vertical foliation

**FOLDS**

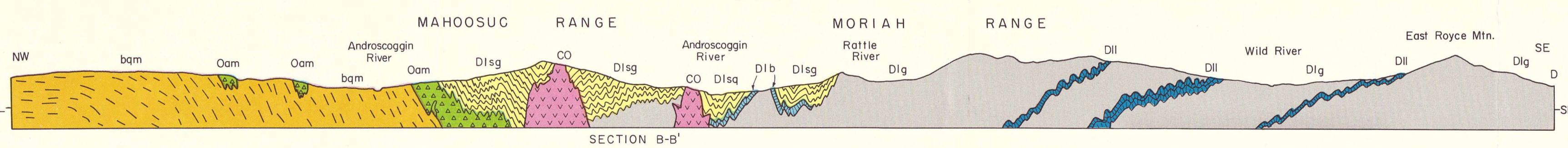
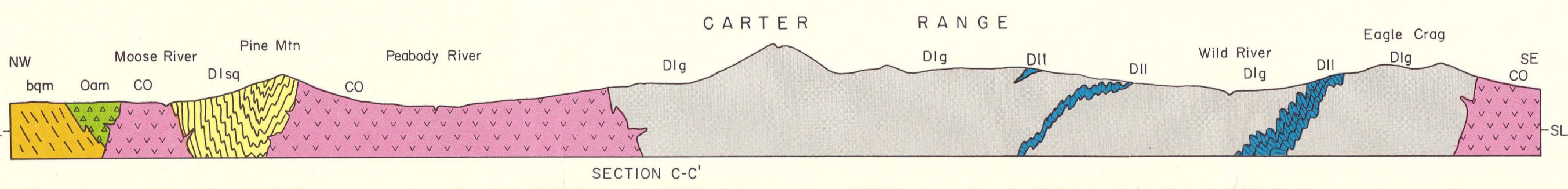
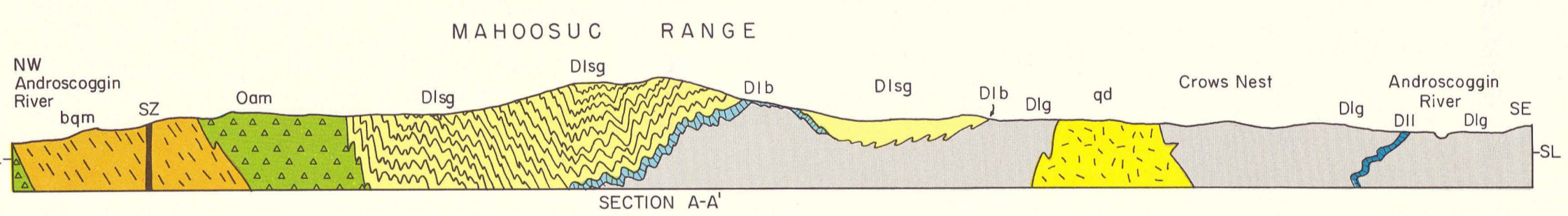
- Faults and shear zones — d on downthrown side
- Silicified zones
- Folded area; bearing and plunge of hinge of representative observed minor (mesoscopic) fold
- Folded area; bearing of hinge of representative minor fold with horizontal plunge
- Folded area; bearing and plunge of average larger fold (mesoscopic) calculated from attitude of bedding or schistosity in adjacent outcrops

**METAMORPHIC ZONES**

- sj: Sillimanite Isograd (Rocks west of isograd contain staurolite and andalusite; in rest of area pelitic rocks contain sillimanite rather than staurolite and andalusite)

**FOOTNOTES**

- Glacial drift covers most of the bedrock
- Pegmatite dikes and sills too small to show are abundant
- Dikes of this series are not shown
- Because of cultural features and lettering on the base map, the location of most of these symbols could not be shown exactly.



GEOLOGIC MAP AND STRUCTURE SECTIONS OF THE GORHAM QUADRANGLE, NEW HAMPSHIRE - MAINE