



PRELIMINARY GEOLOGIC MAP OF THE ATTEAN QUADRANGLE,  
SOMERSET COUNTY, MAINE

By  
A. L. Albee and E. L. Boudette

This map is preliminary and  
has not been edited for  
conformity with Geological  
Survey standards

Post-Lower Devonian

Lower Devonian

Upper Silurian

Relative age not certain

EXPLANATION

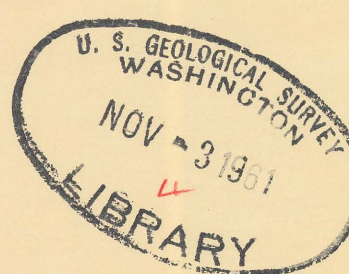
- PLANAR FEATURES**
- Altered dike rock**  
Fine-grained dolomite rock; weathers to orange brown
- Quartz monzonite**  
Medium-grained, light-colored, biotite-bearing monzonite
- Hornblende diorite sills and (or) dikes**
- Frontenac Formation**  
Fine-to medium-grained, greenish-gray, slightly calcareous, argillaceous sandstone and chloritic phyllite and slate
- Seboomook Formation**  
Gray slate with thinner more arenaceous layers; locally a greenish phyllite. Lowermost part may be of Silurian age
- Conglomerate**  
Light-colored, quartz-feldspathic boulder conglomerate and sandstone
- Limestone and slate**  
Fine-grained, gray, argillaceous limestone, gray calcareous slate, light-colored, medium- to coarse-grained calcareous slate, light-colored, medium- to coarse-grained calcareous quartz-feldspathic sandstone and granule conglomerate, fine-grained gray reefal limestone, and gray arenaceous limestone
- Unconformity**
- Mafic dikes**  
Fine-grained mafic dike rock; extent of alteration quite variable. Strike and dip shown where known
- Quartz porphyry dikes**  
Megacrysts of quartz, K-feldspar, and plagioclase in an aphanitic, light-colored matrix
- Quartz monzonite**  
Mottled pink and green, medium- to coarse-grained, porphyritic quartz monzonite characterized by large megacrysts of K-feldspar. In northwest part of area it is extensively altered and has a cataclastic schistosity
- Diorite**  
Dark-colored, medium-grained, hornblende diorite; extensive alteration
- Granulite**  
Light-colored, fine- to medium-grained, quartz-feldspathic metasediment (granulite), which commonly contains numerous lithic fragments. Also includes small areas of greenstone and hornblende diorite similar to Od
- Contact**  
Dash-dot where it is also the boundary of an area whose joint sets are shown on the enclosed joint net
- Fault**  
Dashed where doubtful or probable

DEVONIAN AND YOUNGER

SILURIAN

ORDOVICIAN AND OLDER

- PLANAR FEATURES**
- Inclined Vertical Overturned**  
Strike and dip of bedding
- Inclined Vertical**  
Strike and dip of schistosity or cleavage in general parallel to bedding
- Inclined Vertical**  
Strike and dip of schistosity or cleavage due to uniform planar alignment of minerals
- Inclined Vertical**  
Strike and dip of spaced cleavage not due to uniform planar alignment of minerals
- Inclined Vertical**  
Strike and dip of fold bands
- Widely spaced monoclinical flexures which pass into partings.**  
Heavy dot on side of upward displacement where consistent
- Dextral Sinistral**  
Trend of folded planar feature
- May be combined with other symbols to indicate plan of folded bedding, schistosity, or cleavage**
- Inclined Vertical**  
Strike and dip of axial plane of fold
- Inclined Vertical**  
Strike and dip of joint sets
- Coexisting planar features**  
Intersection is at point of observation
- LINEAR FEATURES**
- Inclined Vertical Horizontal**  
Bearing and plunge of fold or crenicle axis or of the intersection of planar features, or of oriented inclusions (o). May be combined with any class of above planar symbols
- Inclined Horizontal**  
Bearing and plunge of axis of small anticline
- Boundary of an area whose joint sets are shown on the enclosed joint net**
- Joint net**  
Equal area projection (upper hemisphere) of poles to joint sets whose attitude was measured in the enclosed area. Inner ring is 45°
- Linear features shown on aerial photographs**  
Linear features parallel to bedding not shown



Maine (Attean quad). Geol. 1:48,000. 1961.

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