OPEN-FILE NO. 78-21

GEOLOGIC MAP OF A PORTION OF NORTHEASTERN AROOSTOOK COUNTY, MAINE

Compiled by

DAVID C. ROY

Maine Geological Survey

DEPARTMENT OF CONSERVATION

EXPLANATION

SEDIMENTARY and VOLCANIC ROCK UNITS

SILURIAN — LUDLOVIAN — WENLOCKIAN — Upper — C6 C5 C4 C3 C2 C1

SILURIAN — LUDLOVIAN — WENLOCKIAN — Middle — B3 B2 B1

SILURIAN — LUDLOVIAN — WENLOCKIAN — Lower — A4 A3 A2 A1

ORDOVICIAN — CARADOCIAN — ASHGILLIAN — 15 14 13 12 11

ORDOVICIAN — LLANDEILIAN — 10

LOWER DEVONIAN — GEDINNIAN — SIEGENIAN — PRIDOLIAN — Lower — Upper — 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16

GRAPTOLITE ZONES

BRACHIOPOD ZONES

MIDDLE DEVONIAN
(Early Givetian ?)

Dmu
Dml

MAPLETON FORMATION
Dmu Upper Member
Dml Lower Member

Du Ds Dl Ddv Dc

LOWER DEVONIAN ROCKS

Ds Seboomook and Swanback formations

Ddv Volcanic Rocks of the Dockendorff Gp.

Dc Chapman Sandstone

Dl Unnamed Lower Devonian (Upper Gedinnian) Slate, Sandstone, Conglomerate, and Limestone.

Du Undifferentiated Lower Devonian (mostly Slate)

Sfh
FOGELIN HILL FORMATION

PERHAM GROUP

Sss
SANDSTONE and SLATE (Ashland Area)

Sj
JEMTLAND FORMATION
1 Water-deposited Tuff Horizon

Su
UNDIFFERENTIATED SILURIAN
Rocks of Jemtland, Fogelin Hill, and New Sweden Formations in vicinity of Long Lake

Sff Sfq Sfu Sfc Sfs Sfg
FRENCHVILLE FORMATION
Sfu Undifferentiated
Provisional Members
Sfg Graywacke Member
Sfc Conglomerate Member
Sff Feldspathic Sandstone Member
Sfs Sandstone—Slate Member
Sfq Quartzose Sandstone Member

Sns
NEW SWEDEN FORMATION
..... Trace of manganiferous banded ironstone horizon

Ss
SPRAGUEVILLE FORMATION

Sl
UNDIFFERENTIATED LOWER SILURIAN
Rocks of New Sweden and Siegas Formations in Van Buren Township

OSar
AROOSTOOK RIVER FORMATION

OScm OScmu OScml
CARYS MILLS FORMATION
OScmu Upper Member
OScml Lower Member

Opm
PYLE MOUNTAIN ARGILLITE

Ow
WINTERVILLE FORMATION

Oml
MADAWASKA LAKE FORMATION

INTRUSIVE ROCKS

te
TESCHENITE

g
GRANITE

SYMBOLS

Northwest Limit of Detail Mapping

Area shown in vicinity map

Contact
Queried where uncertain

Fault
Queried where uncertain

Anticline
Dashed where uncertain
Arrow indicates plunge

Syncline
Dashed where uncertain
Arrow indicates plunge

Horizontal Beds

Inclined Beds
Dot indicates facing

Vertical Beds

Variable Beds

Vertical Cleavage

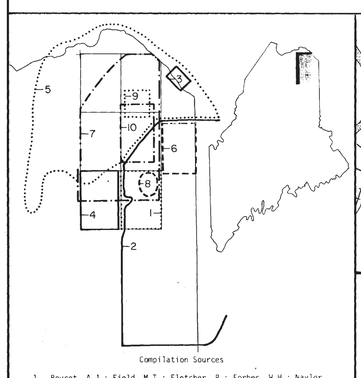
Inclined Cleavage

Bedding & Cleavage Parallel in strike

Plunge of Small Fold

Exposure of Bedrock

×61 Fossil Locality



Compilation Sources

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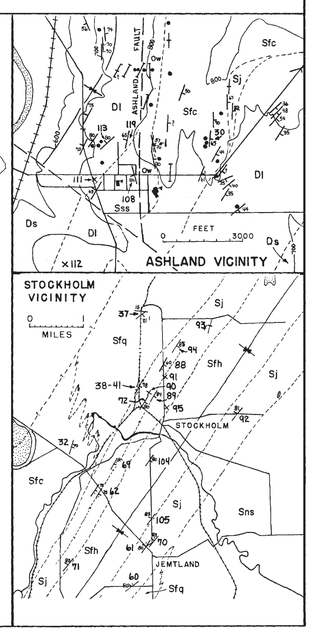

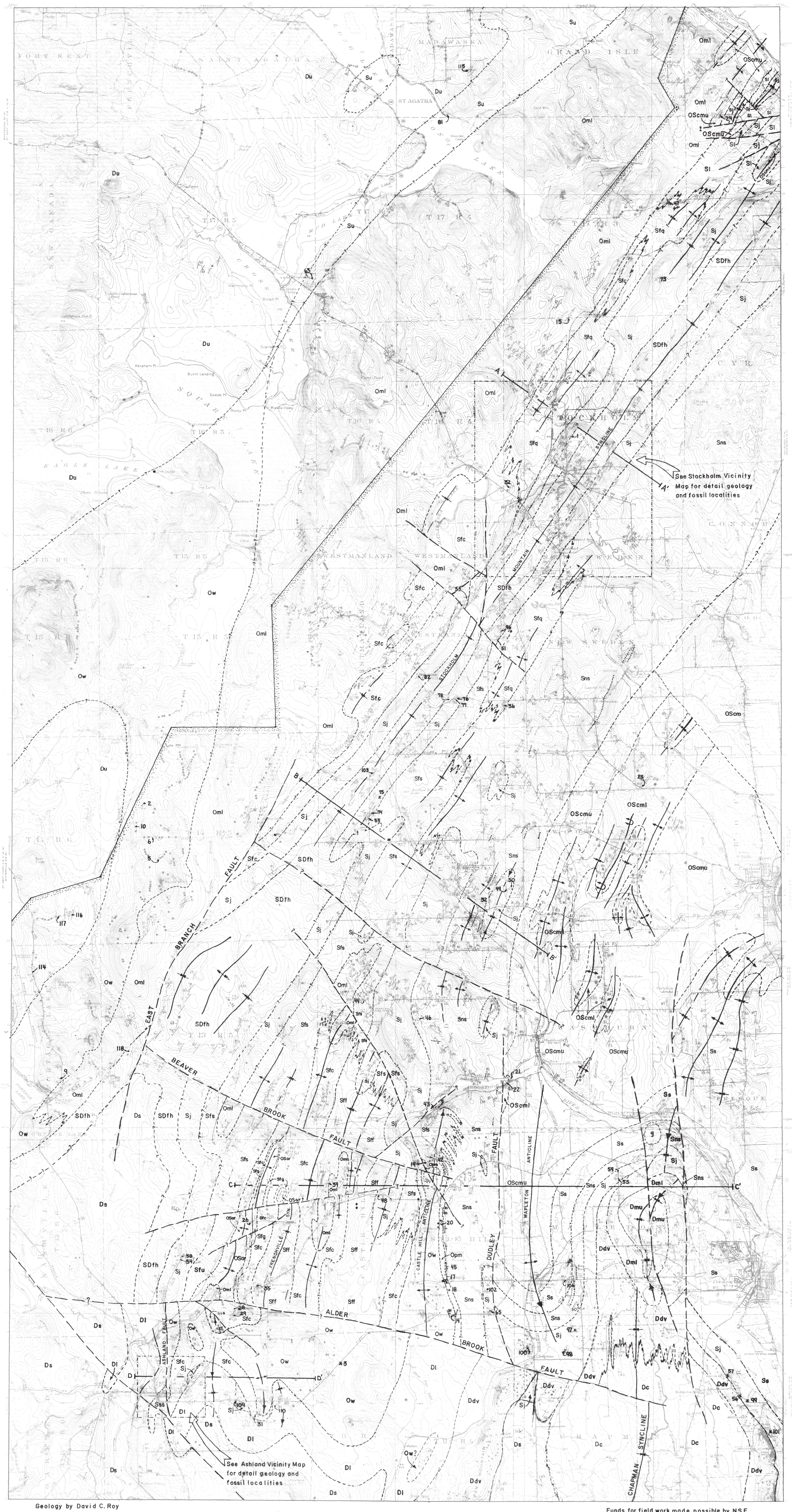

Geology by David C. Roy

This map locally incorperates: published information from Boucot and others (1964), Pavlides (1968), and Hamilton - Smith (1970); unpublished data provided by E. Mencher, R.S. Naylor, D. Smith, L. Pavlides, and theses by Laux and Warner (1966) and White (1975).

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
Primary Highway — Hard Surface — Light Duty
Secondary Highway — Hard Surface — Improved Surface
U.S. Route
State Route

1978

Funds for field work made possible by NSF Grant GP1547 to E. Mencher (1963-1969) and by the Maine Geological Survey (1971, 1973, 1975). Field assistants: D. Johnson (1963), M. Roy (1964), T. Hamilton-Smith (1965, 1966), J. Durazzi (1969), T. Bregani (1971)