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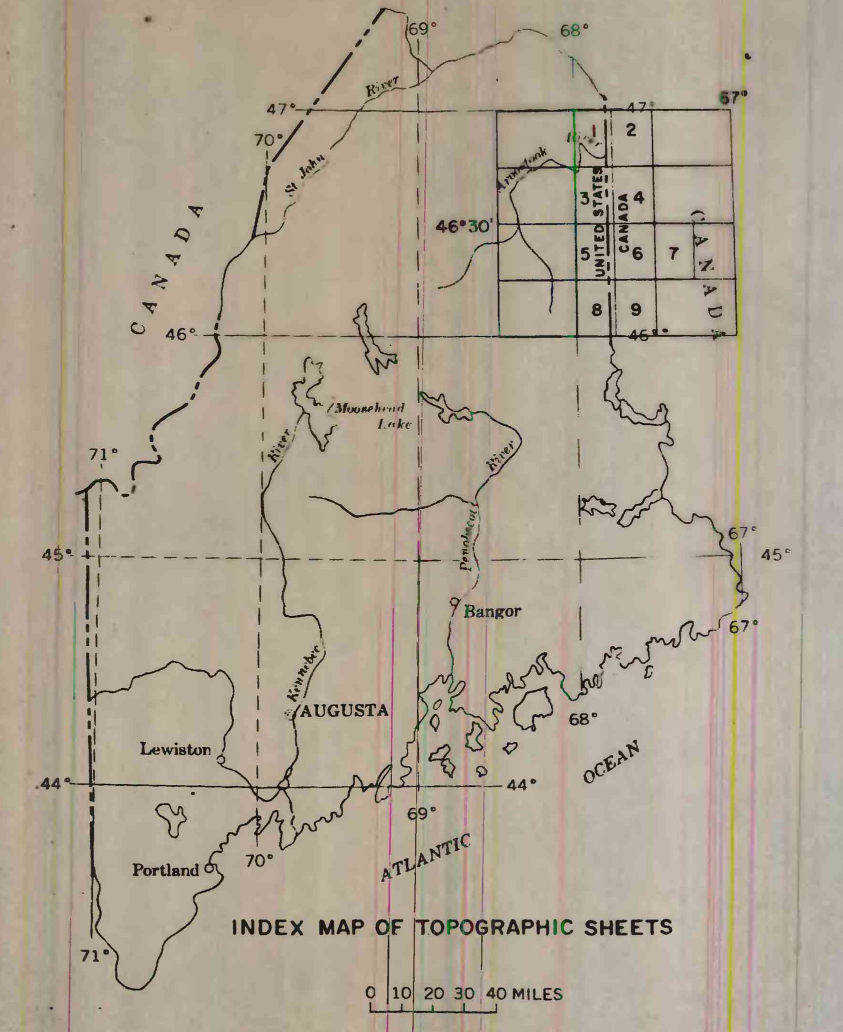


INDEX MAP OF TOPOGRAPHIC SHEETS

1. Aroostook West Half
2. Aroostook East Half
3. Andover West Half
4. Andover East Half
5. Florenceville West Half
6. Florenceville East Half
7. Coldstream West Half
8. Woodstock West Half
9. Woodstock East Half

Fossil localities

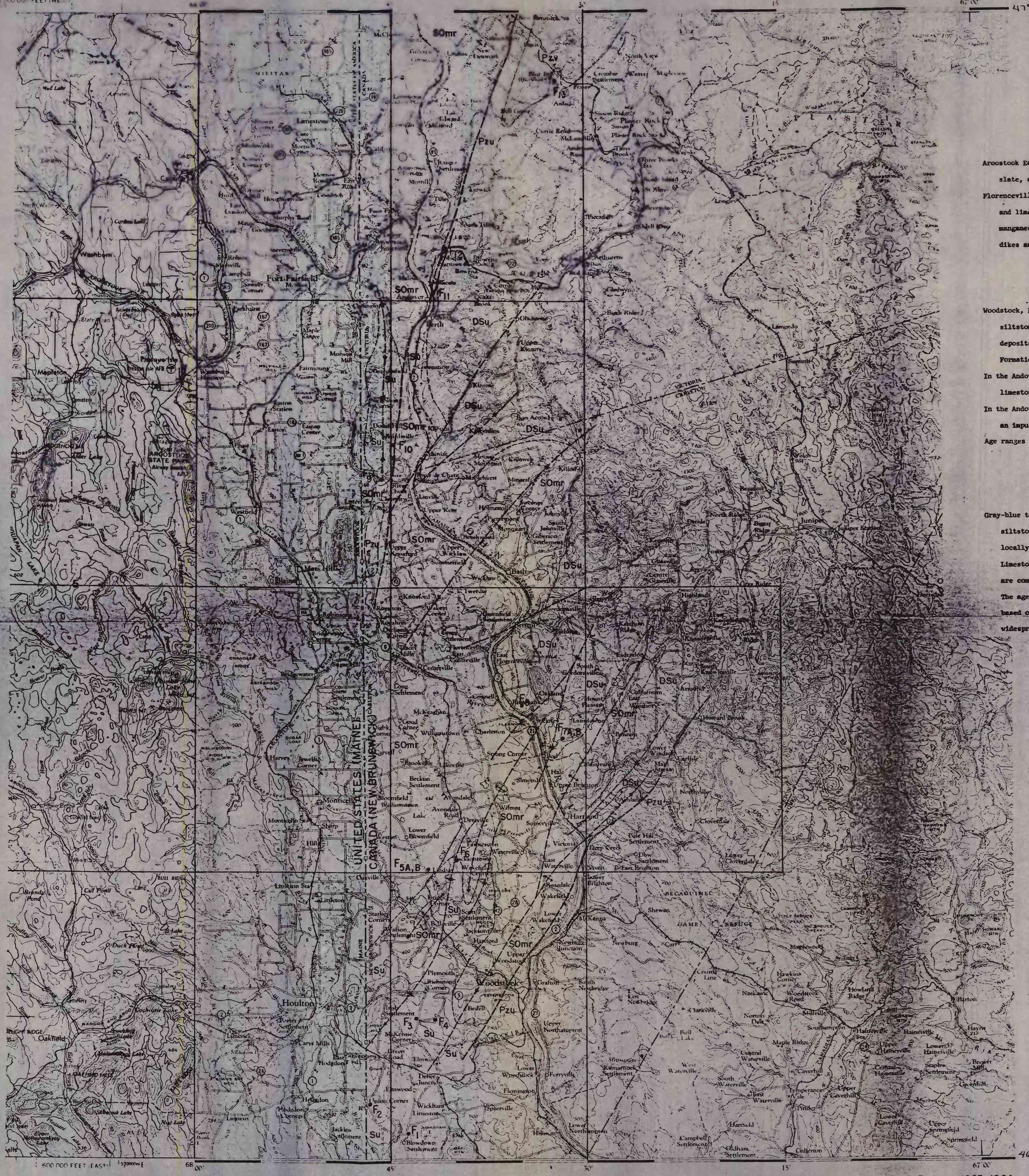
Locality	Age	Kinds of fossils	Dated by	Found or collected by	Status of information
1	Silurian (Llandovery)	Graptolites	W. B. N. Berry U.S. Geol. Survey	Louis Pavlides U.S. Geol. Survey	Unpublished data
2	Silurian (Wenlock)	do	do	do	Do
3	Silurian (Lower Ludlow)	do	do	do	Do
4	Silurian (Lower Ludlow)	do	do	do	Do
5A	Silurian (Early Silurian)	do	L. M. Cumming Canadian Geol. Survey	L. M. Cumming Canadian Geol. Survey	Unpublished data (in part)
5B	Silurian (Llandovery)	do	W. B. N. Berry U.S. Geol. Survey	W. H. Poole Canadian Geol. Survey	Unpublished data
6	Silurian (Ludlow)	Corals 1/	W. A. Oliver, Jr. U.S. Geol. Survey	do	Do
7A	Silurian	Trilobites	L. M. Cumming Canadian Geol. Survey	H. A. Lee Canadian Geol. Survey	Unpublished data (in part)
7B	do	do	A. R. Palmer U.S. Geol. Survey	J. C. Smith New Brunswick Dept. of Land and Mines	Unpublished data
8	do	do	L. M. Cumming Canadian Geol. Survey	H. A. Lee Canadian Geol. Survey	Unpublished data (in part)
9	Silurian?	Brachiopods	A. J. Boucot U.S. Geol. Survey	Louis Pavlides U.S. Geol. Survey	Unpublished data
10	Silurian (Lower Ludlow)	Graptolites	W. B. N. Berry U.S. Geol. Survey	do	Do
11	Silurian	Brachiopods	A. J. Boucot U.S. Geol. Survey	R. B. Neuman and Louis Pavlides U.S. Geol. Survey	Do
12	Silurian (Ludlow)	do	do	P. E. Cloud U.S. Geol. Survey	Published data 2/
13	Ordovician (Caradoc)	do	R. B. Neuman U.S. Geol. Survey	3/	Unpublished data

1/ Coral clasts in conglomerate.

2/ Naylor, R. S., and Boucot, A. J., 1965, Origin and distribution of rocks of Ludlow age (Late Silurian) in the northern Appalachians: Am. Jour. Sci., v. 263, p. 153-169.

3/ Collected by L. M. Cumming and F. D. Anderson, Canadian Geological Survey; J. C. Smith, New Brunswick Dept. of Land and Mines; and R. B. Neuman and Louis Pavlides, U.S. Geol. Survey.

Presque Isle 1:250,000 sheet   Woodstock 1:250,000 sheet



Reconnaissance bedrock geology by Louis Pavlides, 1963–1964
Base from U.S. Army Map Service 250,000 series quadrangles: Presque Isle, 1954, and Woodstock, 1959

RECONNAISSANCE MAP OF BEDROCK GEOLOGY OF A PART OF NORTHWESTERN NEW BRUNSWICK, CANADA

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EXPLANATION

PALEOZOIC

Pzv — Volcanic rocks

Pzu — Sedimentary rocks, undivided

Coldstream West Half sheet; mostly red conglomerate, sandstone and shale of Pennsylvanian age 4/

Woodstock West Half sheet; red conglomerate and sandstone near Wakefield resembles the Mapleton Sandstone 5/ of Middle Devonian age in Maine. Elsewhere mostly quartzite and slate.

Andover West Half sheet; mostly quartzite, siltstone, and slate.

Aroostook East Half; quartzite, siltstone and slate

SILURIAN AND (OR) DEVONIAN

DSu — Sedimentary and igneous rocks, undivided

Aroostook East Half and the Andover East Half sheets; chiefly quartzite and slate, commonly with graded bedding.

Florenceville East Half and the Coldstream West Half sheets; quartzite, slate, and limestone and rocks of the Smyrna Mills Formation 1/ with iron-and-manganese deposits as in unit Su of the Woodstock sheets. "Greenstone" dikes and sills(?) are common.

SILURIAN

Su — Sedimentary rocks, undivided

Woodstock, East and West Half sheets; slate, micaceous quartzite, and siltstone, conglomerate (minor), limestone (minor), and lenticular deposits of iron and manganese. Corresponds to the Smyrna Mills Formation 1/ of Maine.

In the Andover West Half sheet, quartzite, siltstone, slate, and limestone (minor); cut by numerous dioritic dikes.

In the Andover East Half and the Aroostook East Half sheets, mostly an impure limestone.

Age ranges from Middle Llandovery to Lower Ludlow.

ORDOVICIAN

SOmr — Meduxnekeag Formation (ribbon rock member)

Gray-blue to dark-blue buff-weathered impure limestone, calcareous siltstone, and silty limestone interbedded with slate and locally containing lenses of slate, and slate and graywacke. Limestone beds are both of the ankeritic and calcic type and are commonly interbedded with each other as well as with slate. The age span (Caradoc to Middle Llandovery) of this unit is based on paleontologic data from Maine 1,2/ where it is a widespread unit 3/

Contact, approximately located

Inferred fault

Inferred anticline
Showing crestline and direction of plunge

Inferred syncline
Showing troughline and direction of plunge

• F_3
Fossil locality listed in table

1/ Pavlides, Louis, and Berry, W. B. N., 1966, Graptolite-bearing Silurian rocks of the Houlton-Smyrna Mills area, Aroostook County, Maine, in Geological Survey Research 1965: U.S. Geol. Survey Prof. Paper 550 B (in press).

2/ Pavlides, Louis, 1965, Geology of the Bridgewater quadrangle, Maine: U.S. Geol. Survey Bull. 1206.

3/ Pavlides, Louis, Mencher, Ely, Naylor, R. G., and Boucot, A. J., 1964, Tectonic features of eastern Aroostook County, Maine, in Geological Survey Research: U.S. Geol. Survey Prof. Paper 501-C, p. C28-C30.

4/ Anderson, F. D., 1956, Coldstream-Carleton and York Counties, New Brunswick: Canada Geol. Survey Paper 55-29.

5/ Boucot, A. J., Field, M. T., Fletcher, Raymond, Forbes, W. H., Naylor, R. S., and Pavlides, Louis, 1964, Reconnaissance bedrock geology of the Presque Isle quadrangle, Maine: Maine Geol. Survey Quad. Mapping Ser. no. 2, 123 p.

U.S. Geological Survey
OPEN FILE MAP

This map was prepared in an attempt to more fully understand a widespread stratigraphic and structural unit first recognized by mapping in Maine, and to define the eastern limits of this unit