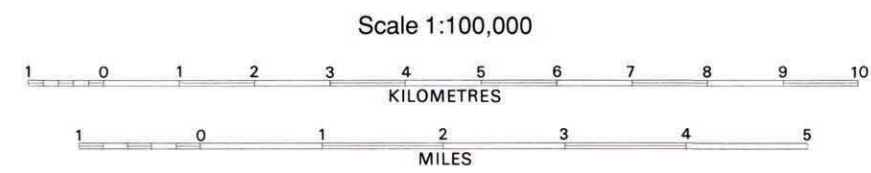
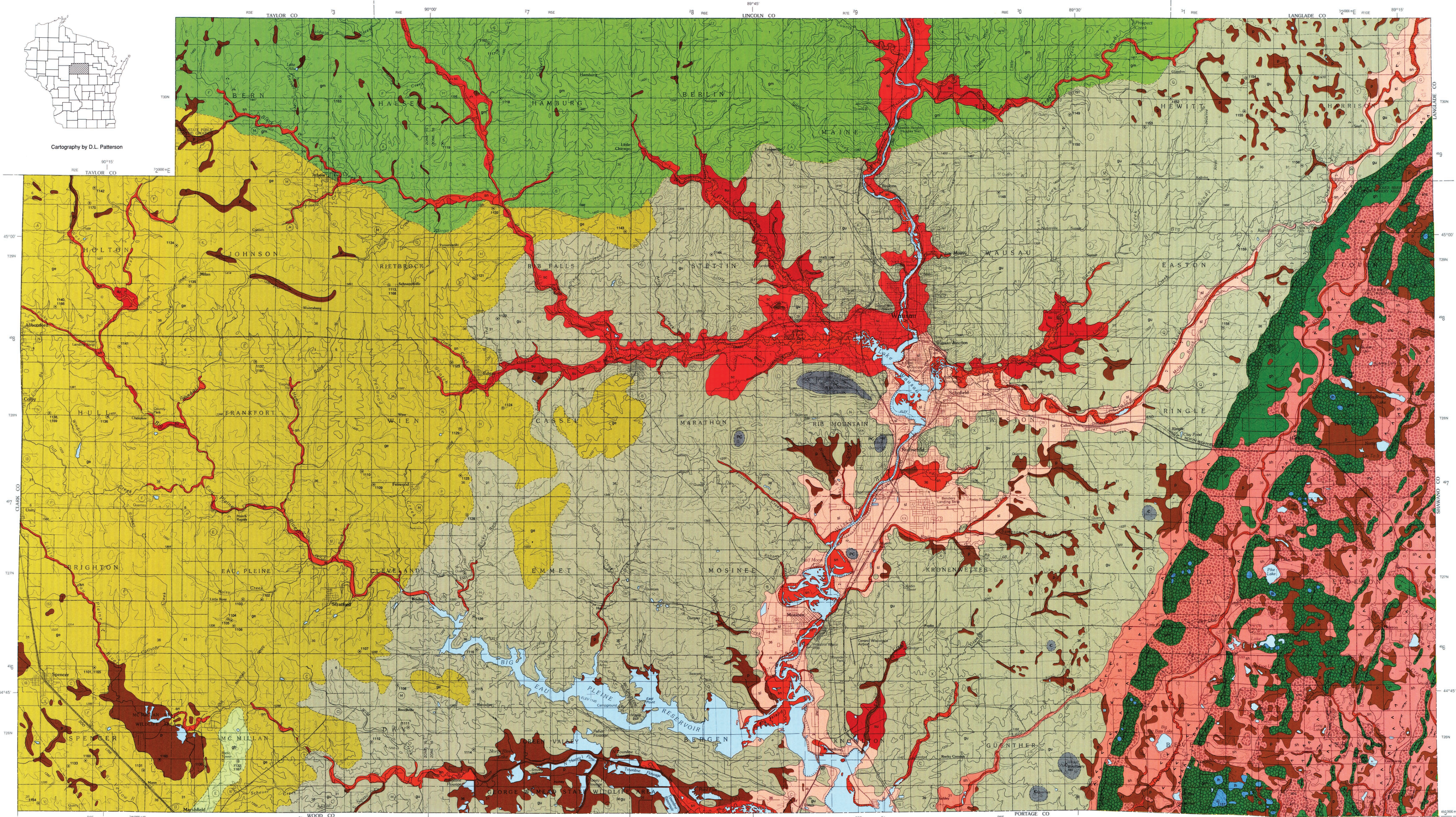


# PLEISTOCENE GEOLOGY OF MARATHON COUNTY, WISCONSIN

Information Circular 65  
Pleistocene Geology of Marathon County, Wisconsin  
Plate 1: Geologic map (Map 89-1)

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## Explanation

### WETLAND SEDIMENT

**Peat and muck.** Sediment deposited in bogs, swamps, and marshes; typically less than 2 m thick.

### STREAM SEDIMENT

**Meltwater-stream sediment of the Horicon Formation.** Dolomitic sand, gravelly sand, and sandy gravel deposited by meltwater streams from the Green Bay Lobe during the last part of the Wisconsin Glaciation; typically leached of carbonate to a depth of 5 to 10 m. Unit **sh** is shown where the original depositional surface has been destroyed by collapse due to melting of buried ice.

**Meltwater-stream sediment of the Copper Falls Formation.** Noncalcareous sand, gravelly sand, and sandy gravel deposited by meltwater streams from the Langlade, Wisconsin Valley, and Chippewa Lobes during the last part of the Wisconsin Glaciation.

**Meltwater-stream sediment of the Horicon and Copper Falls Formations, undifferentiated.** Sand, gravelly sand, and sandy gravel deposited by meltwater streams from the Green Bay, Langlade, Wisconsin Valley, and Chippewa Lobes during the last part of the Wisconsin Glaciation.

### GLACIAL SEDIMENT

**Till of the Mapleview Member of the Horicon Formation.** Brown, gravelly to slightly gravelly, clayey, silty sand deposited by the Green Bay Lobe during the last part of the Wisconsin Glaciation; dolomite clasts are abundant below a depth of several metres; typically 10 m or more thick; occurs at the surface in ice-marginal deposits, broad areas of hummocky topography, and in drumlins. Unit **gh** is shown in areas of gently rolling topography; unit **gth** is shown in areas of hummocky topography.

**Till of the Merrill Member of the Lincoln Formation.** Noncalcareous, reddish brown, slightly gravelly, clayey, silty sand occurring in an area of subdued glacial topography in the northern part of the county; typically less than 5 m thick and patchy near its southern limit.

**Till of the Bakerville Member of the Lincoln Formation.** Noncalcareous, reddish brown, slightly gravelly, clayey, silty sand occurring in a broad ridge in the southwestern part of the county; typically 3 to 5 m thick; underlain by gravelly sand and sandy gravel and till of the Edgar Member.

**Till of the Edgar Member of the Marathon Formation.** Brown, calcitic, slightly gravelly, sandy, clayey silt underlying broad, nearly flat upland areas in the western part of the county; typically 5 to 20 m thick; includes small patches of till of the Bakerville Member in the western part of the area.

### LAKE SEDIMENT

**Offshore lake sediment of the Horicon Formation.** Fine sand and silty fine sand, some slightly gravelly, in ice-walled-lake plains.

### PRE-PLEISTOCENE ROCK

**Large areas of outcrop of Precambrian (PC) or Cambrian (C) rock where Pleistocene sediment has been nearly completely eroded.**

### SYMBOLS

**Geologic contact.** Solid line where position shown on map is judged to be within 0.1 km of true contact in most places; dashed line where position shown on map is judged to be more than 0.1 km from true contact in many places.

**Drumlin.**

**Stream-cut bank.**

**Flow direction on fluvial surface.**

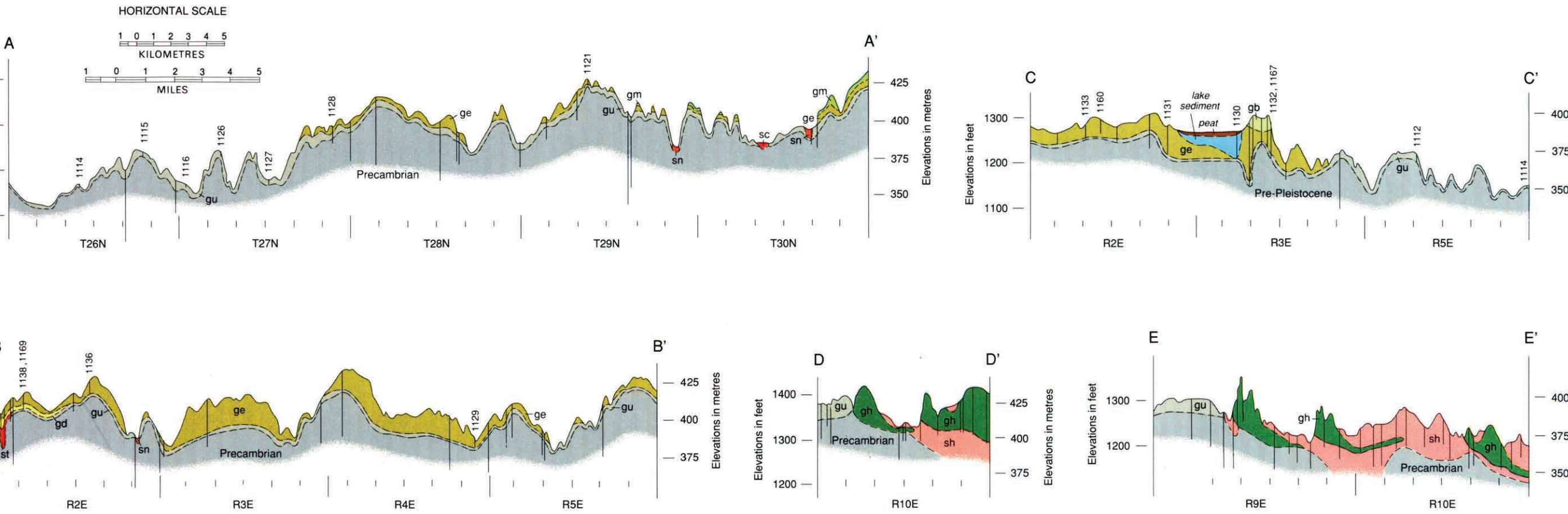
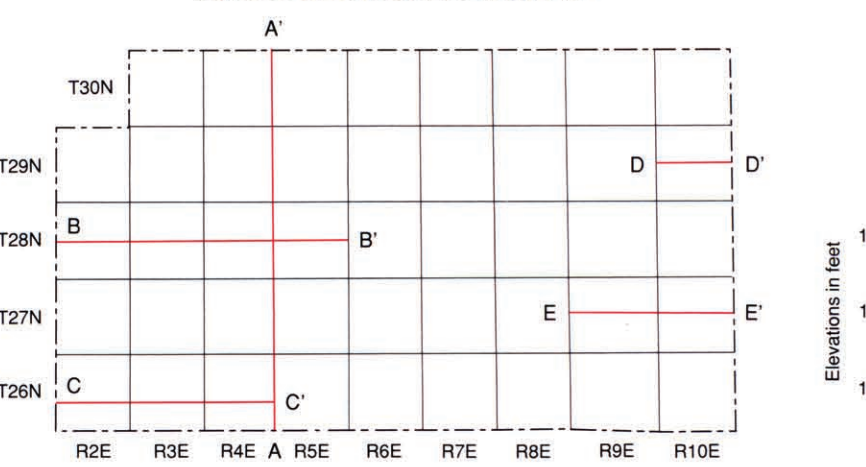
**Ice-marginal ridge.**

**Test hole location and WGNHS Geologic Log number.**

## GEOLOGIC CROSS SECTIONS

Sections A-A' through E-E' show the generalized vertical relationships between geologic units. They are based on the surface distribution of materials, logs of holes drilled as a part of this study, and logs of other drillholes that are on file at the Wisconsin Geological and Natural History Survey in Madison. The unit designations are the same as those used on the map with the following additions: unit **gd**, till of the Medford Member of the Marathon Formation, a unit that does not occur at the surface in Marathon County, and unit **st**, undifferentiated meltwater and nonglacial stream sediment of various ages. The contacts between units are judged to be within 3 m of the true contact in most places. The vertical exaggeration is about 84 times.

### CROSS-SECTION LOCATIONS



Base from U.S. Geological Survey County Map Series (Topographic), 1986.