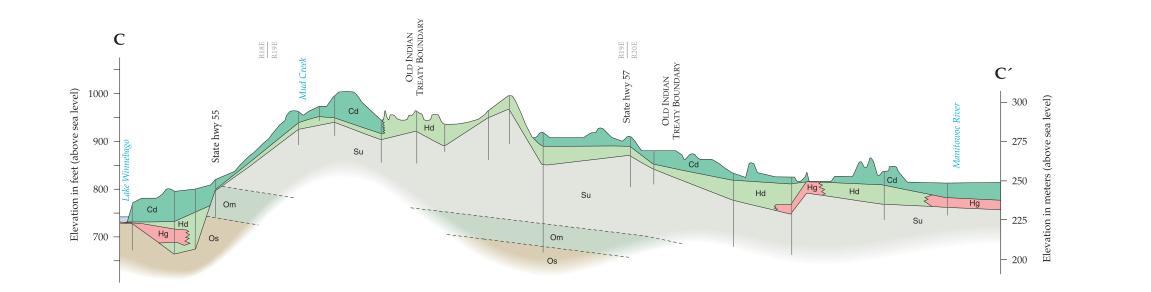
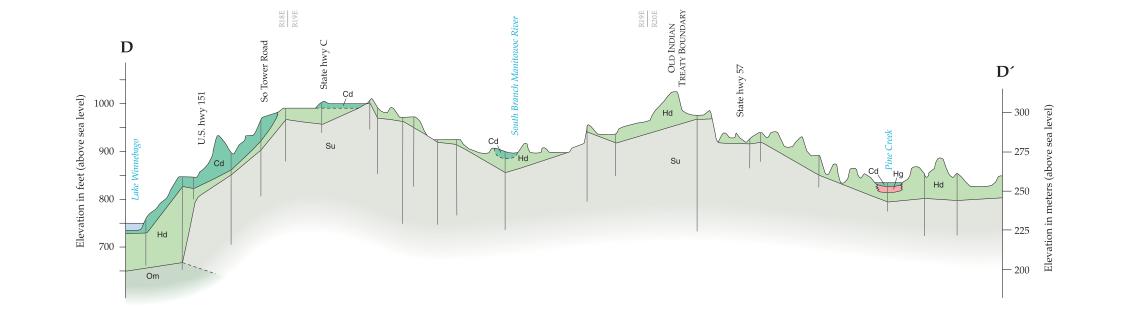
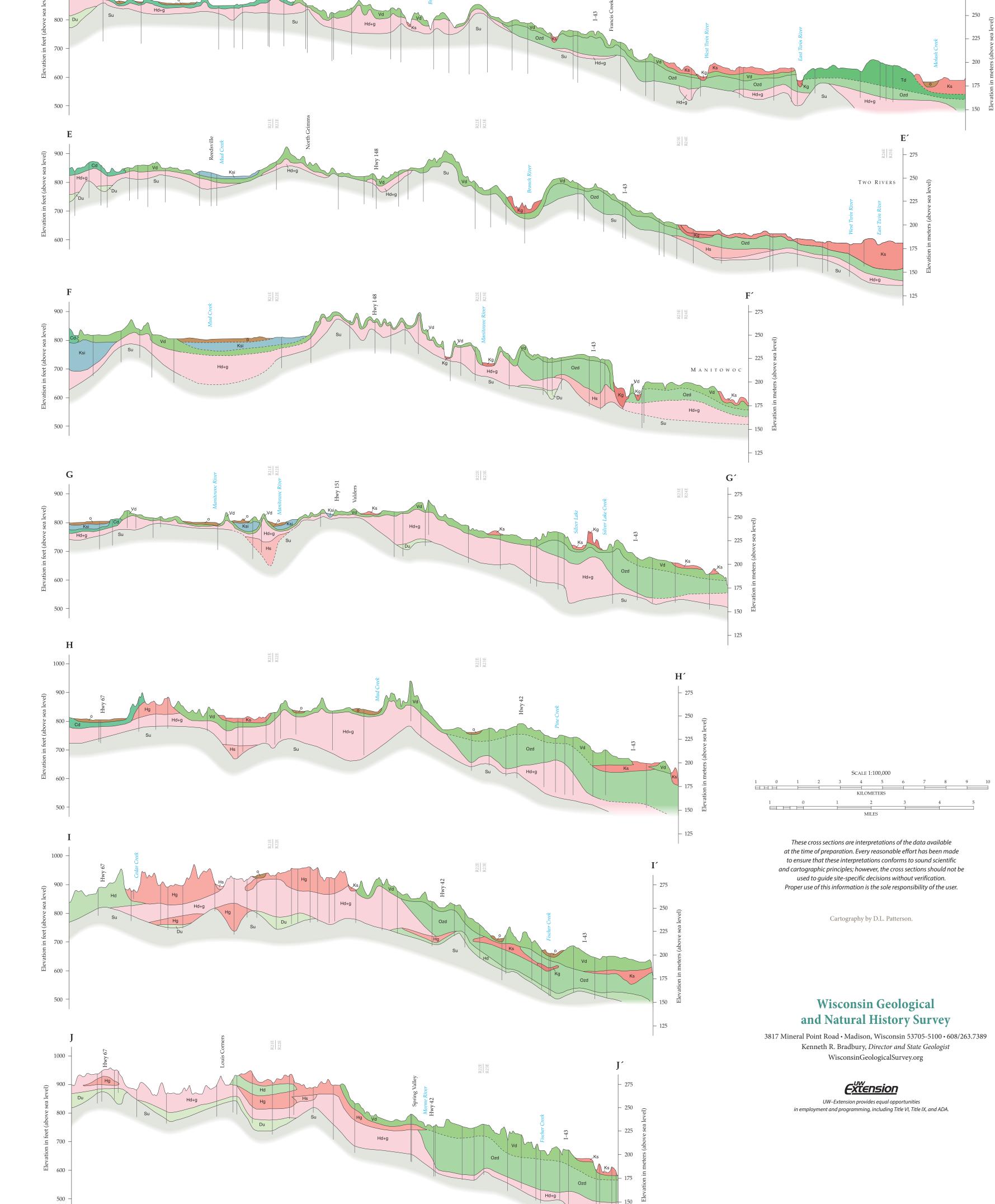
Geologic Cross Sections of Calumet and Manitowoc Counties, Wisconsin MANITOWOC *Vertical exaggeration is approximately 45x* D.M. Mickelson and B.J. Socha Bulletin 108 | Plate 2 2017 MANITOWOC COUNTY CROSS-SECTION INDEX CALUMET Vertical exaggeration is approximately 40x R23F R24 R22F CALUMET COUNTY CROSS-SECTION INDEX R18E R19E R19E R20E R18E 900 Calumet and Manitowoc Counties 800 23E 24E BRILLION STATE WILDLIFE AREA R21E R22E R23E R24E





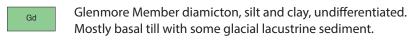


Su

Calumet County geologic cross sections

B.J. Socha

Pleistocene Epoch



Chilton Member diamicton, silt and clay, undifferentiated. Mostly basal till with some glacial lacustrine sediment. Cd

Holy Hill and Hayton Formation diamicton, undifferentiated. Hd Mostly basal till with some fluvial sediment (sand and gravel).

Holy Hill and Hayton Formation sand and gravel, undifferentiated. Holy Hill and Hayton Formation sand and gravel, undifferentiated Mostly fluvial sediment (sand and gravel) with some diamicton.

Drift, diamicton, sand and gravel, silt and clay, undifferentiated. Mostly

Manitowoc County geologic cross sections

D.M. Mickelson



stream deposits shown only where extensive. All postglacial in age.

Kewaunee Formation

Two Rivers Member diamicton, silt and clay. Mostly basal till with some Td glacial lake sediment.

Chilton Member diamicton, silt and clay, undifferentiated. Mostly basal till Cd with some glacial lake sediment.

Valders Member diamicton, silt and clay. Mostly basal till with some glacial Vd

Du Holy Hill and Hayton Formation sediments, but older units may be present.

Silurian Period

Su Silurian System, dolomite, undivided. Includes Cayugan, Niagaran and Alexandrian Series.

Ordovician Period

Om Maquoketa Formation. Shale, dolomitic shale, and dolomite.

Os Sinnipee Group. Dolomite with some limestone and snar Includes Galena, Decorah, and Platteville Formations. Sinnipee Group. Dolomite with some limestone and shale.

Oa Ancell Group. Orthoquartzitic sandstone with minor limestone, sha and conglomerate. Includes Glenwood and St. Peter Formations. Ancell Group. Orthoquartzitic sandstone with minor limestone, shale,

Source

Bedrock units modified from Mudrey, M.G., Jr., Brown, B.A., and Greenberg, J.K., 1982, Bedrock geologic map of Wisconsin, Wisconsin Geological and Natural History Survey Map 18, scale 1:1,000,000.



Ozd Ozaukee Member diamicton, silt and clay. Mostly basal till with some glacial lake sediment.

- Branch River Member diamicton, silt and clay. Mostly basal till with some Bd glacial lake sediment.
- Kewaunee Formation gravel. Mostly sand and gravel with gravel Kg dominating in abundance. Deposited by streams.
- Kewaunee Formation sand. Mostly sand and gravel with sand dominating Ks in abundance. Deposited by streams and waves along Lake Michigan. Includes peat and till in areas too small to show.
- Ksi Kewaunee Formation silt. Mostly laminated or massive silt, sand and clay. Deposited in former lakes.

Holy Hill Formation

- Holy Hill Formation diamicton. Mostly basal till with Hd some stream sediment (sand and gravel).
- Holy Hill Formation sand and gravel, undifferentiated. Mostly stream sediment (sand and gravel) with some Hg diamicton. Gravel dominates in abundance.
- Hs Holy Hill Formation sand and gravel. Mostly stream sediment (sand and gravel) with some diamicton. Sand dominates in abundance.
- Hd+g Holy Hill Formation undifferentiated diamiction, sand, and gravel.

Hayton Formation

Hayton and possibly older diamicton, sand and gravel, Du silt and clay, undifferentiated. Mostly Hayton Formation sediments, but older units may be present.

Bedrock

Su Silurian System, dolo Alexandrian Series. Silurian System, dolomite, undivided. Includes Cayugan, Niagaran and

Note: The Manitowoc cross sections are diagramatic in the sense that well data have been projected into the cross section line from up to 2 miles away. Thus, depths to bedrock and distribution of units are not exact along section lines. Interpretation of stratigraphic classifi-cation and material type is based mostly on well construction reports and not from drilling associated with this mapping project.



Symbols

Geologic contact; dashed where inferred. ``___

Well