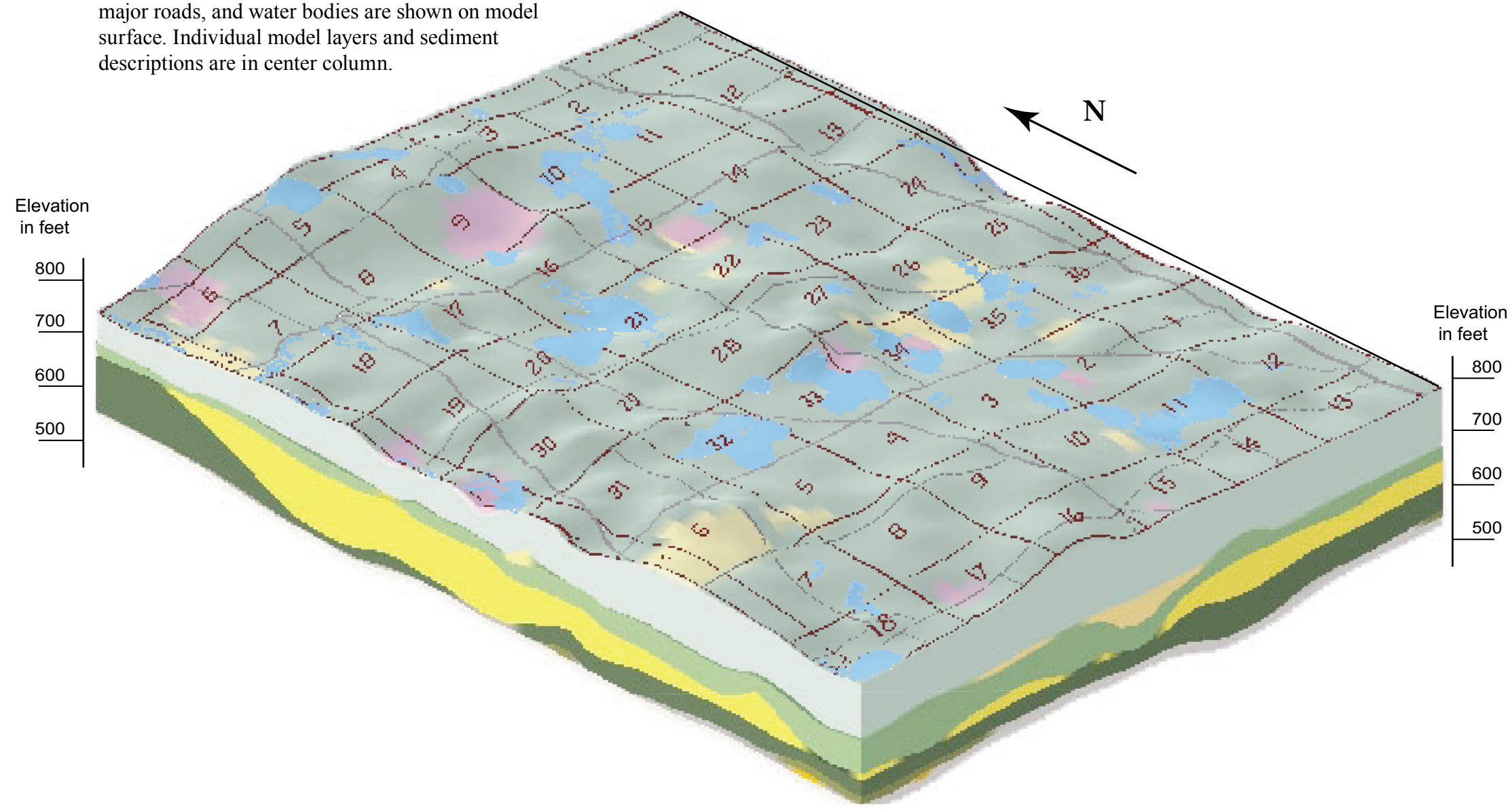


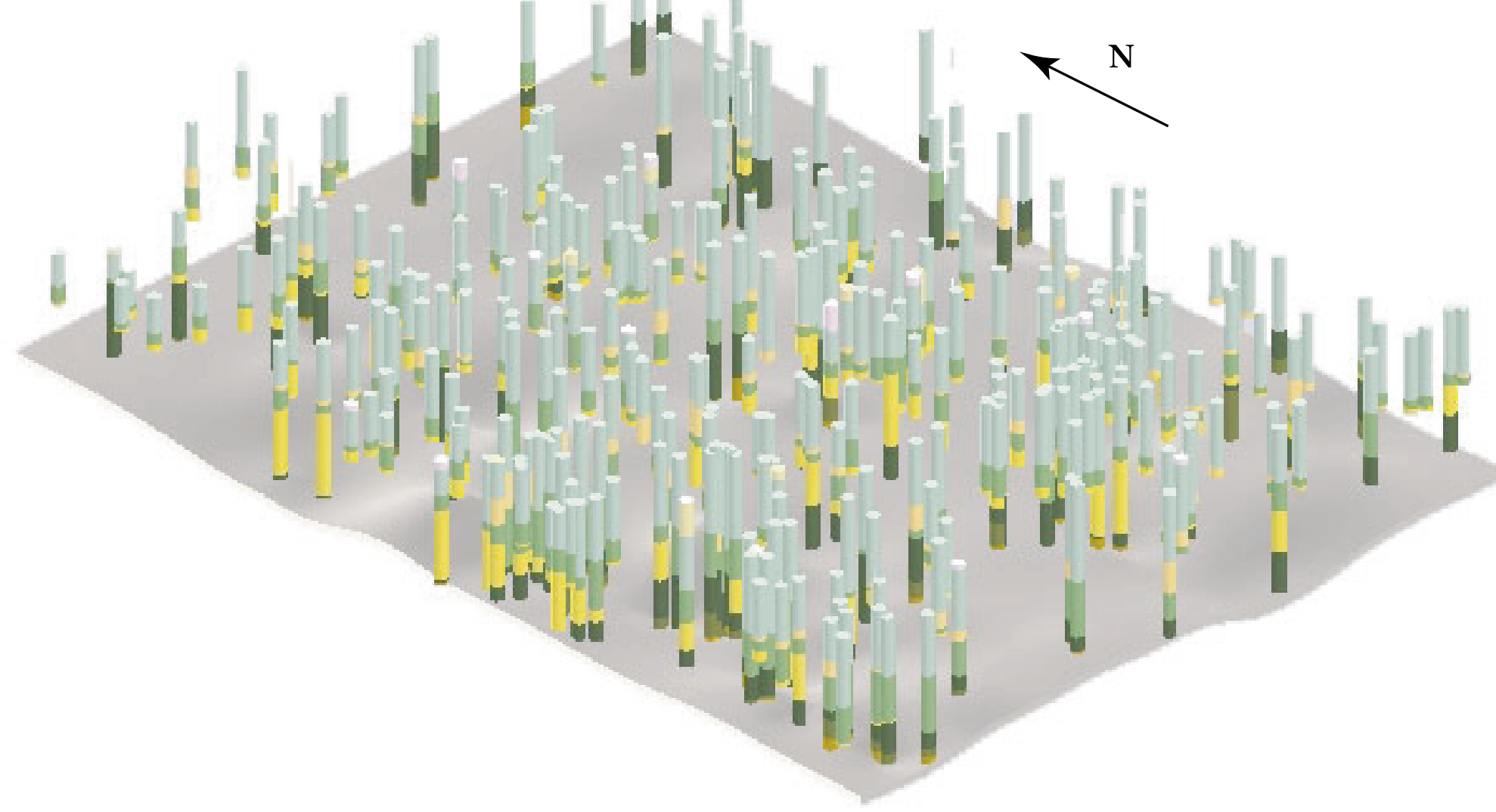
# THREE-DIMENSIONAL MODEL: SURFICIAL GEOLOGY OF ANTIOCH QUADRANGLE LAKE COUNTY, ILLINOIS AND KENOSHA COUNTY, WISCONSIN

Ardith K. Hansel  
2005

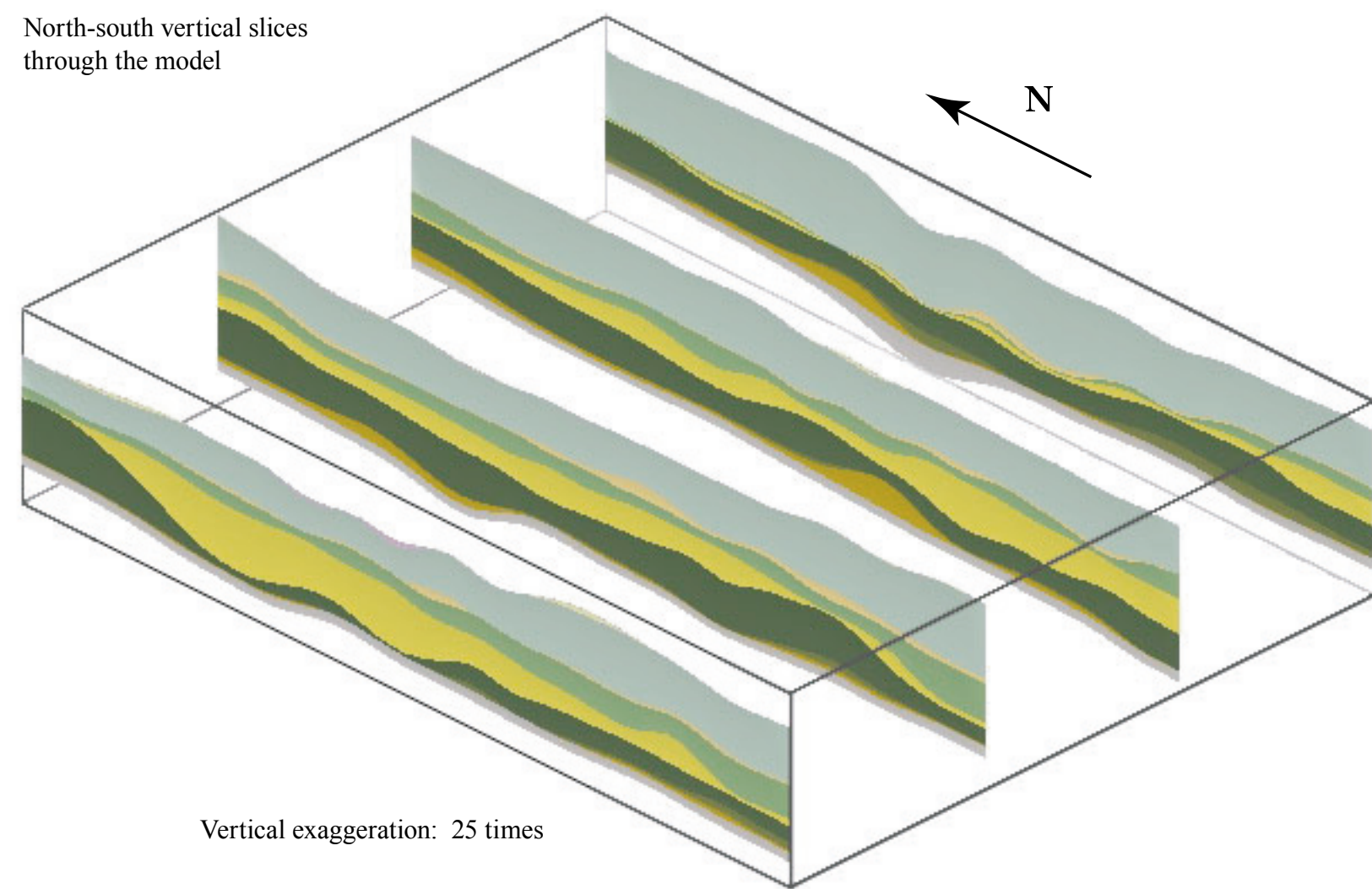
3-D Model of lithostratigraphic units. Section lines, major roads, and water bodies are shown on model surface. Individual model layers and sediment descriptions are in center column.



Bedrock surface and boring logs with lithostratigraphic units identified

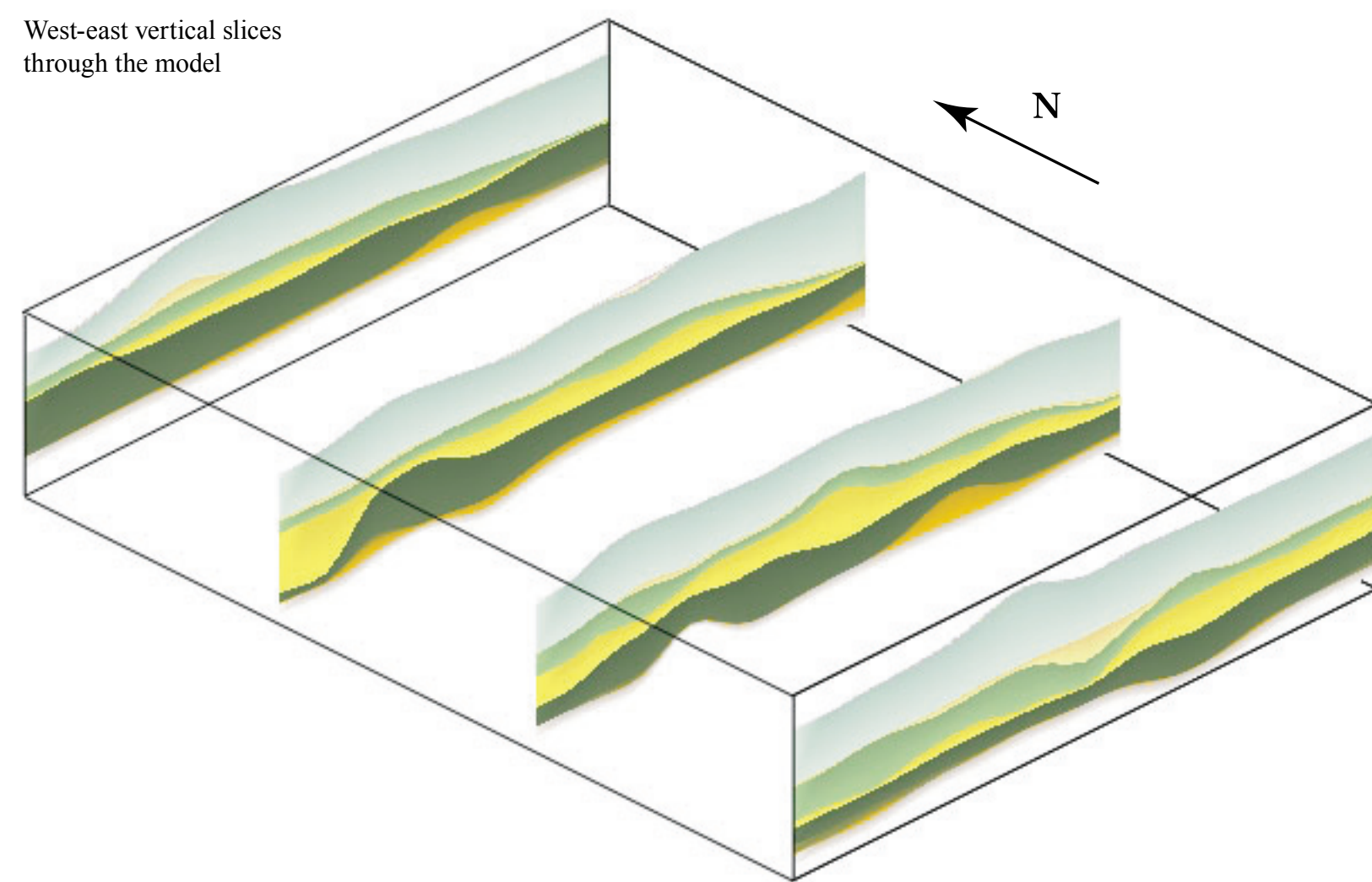


North-south vertical slices through the model



Vertical exaggeration: 25 times

West-east vertical slices through the model



### Lithostratigraphic Units

- Equality Formation
- Upper tongue, Henry Formation
- Wadsworth Formation
- Unnamed tongue, Henry Formation
- Haeger Member, Lemont Formation
- Beverly Tongue, Henry Formation
- Tiskilwa Formation
- Older drift (diamicton and clay)
- Older drift (sand and gravel)
- Bedrock

**Upper tongues, Equality Formation (lavender) and Henry Formation (pale yellow)** massive to laminated silt and clay (lake deposits) and stratified sand and gravel (glaciofluvial deposits), respectively

**Wadsworth Formation** gray silty clay to silty clay loam diamicton including lenses and tongues of massive to laminated silt and clay and stratified sand and gravel (till, lake and glaciofluvial sediment, flow deposits)

**Unnamed tongue, Henry Formation** stratified sand and gravel (proglacial fluvial deposits)

**Haeger Member, Lemont Formation** sandy loam to silty loam diamicton containing beds of sorted sediment (till and ice-marginal deposits)

**Beverly Tongue, Henry Formation** sand and gravel (proglacial fluvial deposits)

**Tiskilwa Formation** red-gray clay loam to loam diamicton containing beds of sorted sediment (till and ice-marginal deposits)

**Older drift** gray silty diamicton, generally containing abundant dolomite gravel; and/or fine-grained stratified sediment (dark green), stratified sand and gravel, and bedrock rubble (brown) (till, lake, and fluvial deposits)

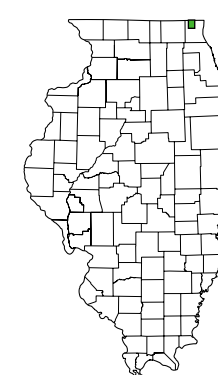
**Bedrock** generally, Silurian dolomite

**Recommended citation:**  
Hansel, A.K., 2005, Three-Dimensional Model: Surficial Geology of Antioch Quadrangle, Lake County, Illinois and Kenosha County, Wisconsin: Illinois State Geological Survey, Illinois Preliminary Geologic Map Series, IPGM Antioch-3D, 1:24,000.

Released by the authority of the State of Illinois: 2005



For more information contact:  
Illinois State Geological Survey  
615 East Peabody Drive  
Champaign, Illinois 61820-6964  
(217) 244-2414  
<http://www.isgs.uiuc.edu>



This Illinois Preliminary Geologic Map (IPGM) is a lightly edited product, subject to less scientific and cartographic review than our Illinois Geological Quadrangle (IGQ) series. It will not necessarily correspond to the format of IGQ series maps, or to those of other IPGM series maps. Whether or when this map will be upgraded depends on the resources and priorities of the ISGS.

The Illinois State Geological Survey, the Illinois Department of Natural Resources, and the State of Illinois make no guarantee, expressed or implied, regarding the correctness of the interpretations presented in this document and accept no liability for the consequences of decisions made by others on the basis of the information presented here. The geologic interpretations are based on data that may vary with respect to accuracy of geographic location, the type and quantity of data available at each location, and the scientific/technical qualifications of the data sources. Maps or cross sections in this document are not meant to be enlarged.