



EXPLANATION

- Recent**
  - Quaternary**
  - Pleistocene**
  - Pliocene**
  - Miocene**
  - Oligocene**
  - Eocene**
  - Wilcox group**
  - Midway group**
  - Upper Cretaceous**
  - Upper Devonian and Mississippian**
  - CRETACEOUS**
  - DEVONIAN AND CARBONIFEROUS**
- Qsg**  
Loam, sand, gravel, and clay  
UNCONFORMITY
  - Ql**  
Loess  
(Gravish to yellowish-brown massive limy silt on the upland bordering the Mississippi lowland)  
UNCONFORMITY
  - Qct**  
Coastal terrace deposits  
(Loam, sand, gravel, and clay; terrace gravel and sand exposed beneath the loess at the western edge of the upland are not shown; probably includes some Recent deposits along the coast)  
UNCONFORMITY
  - Tcn**  
Citronelle formation  
(Sand, gravel, and clay; unmapped scattered thin remnants of the formation overlapping older formations are indicated by the dotted pattern over the Catahoula sandstone, Vicksburg group, and Jackson formation)  
UNCONFORMITY
  - To**  
Pascagoula clay  
(Clay, sandy clay, and sand)  
UNCONFORMITY (?)
  - Th**  
Hattiesburg clay  
(Blue and gray clay, some claystone, lignite, and sand)
  - Te**  
Catahoula sandstone  
(Irregularly bedded sand, sandstone, and clay)
  - Tv**  
Vicksburg group  
(Limestone, marl, clay, and sand; subdivided into formations and members in text)
  - Tj**  
Jackson formation  
(Basal portion, Moody's marl member—shells embedded in quartz sand and glauconitic; upper portion, Yazoo clay member—clay, more or less calcareous, with some sand and marl)  
UNCONFORMITY (?)
  - Ty**  
Yegua formation  
(Irregularly bedded, more or less laminated lignitic clay, sand, and lignite)
  - Tl**  
Lisbon formation  
(Highly calcareous, more or less glauconitic marl and red and yellow sand containing characteristic Lisbon fauna; underlain, in places, by Knoxville sandstone member; and with a highly glauconitic sand, more or less clayey, Winona sand member, Tlv, at base)
  - Tt**  
Tallahatta formation  
(Claystone, quartzite, soft sandstone, and sand)  
UNCONFORMITY
  - Thb**  
Hatchetigbee and Bashi ("Woods Bluff") formations  
(Hatchetigbee formation: lignitic clay, lignite, and sand; Bashi formation: near Meridian only, glauconitic calcareous sandy marl with large calcareous concretions)  
UNCONFORMITY
  - Tg**  
Grenada formation  
(Lignitic clay, lignite and sand; unconformable (?) on Holly Springs sand)
  - Ths**  
Holly Springs sand  
(Highly cross-bedded, more or less micaceous sand, with lenses of clay)  
UNCONFORMITY (?)
  - Ta**  
Aekerman formation  
(Gray, more or less lignitic clay, lignite, and sand)  
UNCONFORMITY (?)
  - Tpc**  
Porters Creek clay  
(Dark-gray clay, overlain, at the north, by the typical sandstone member. From Alabama line to and beyond the Kahl the Natchez formation, red or yellow micaceous sand, is included in this block, at the top)
  - Tcl**  
Clayton formation  
(Hard yellowish limestone overlain by greenish-gray glauconitic sandy marl or red clayey sand)  
UNCONFORMITY
  - Kr**  
Ripley formation  
(Compact to loose sand, sandstone, sandy limestone, and shell marl, with important beds of clay, Kim, McNary sand member)
  - Ks**  
Selma chalk  
(More or less argillaceous or sandy chalk)
  - Kec**  
Eutaw formation  
(Massive and cross-bedded more or less glauconitic fine to medium sand, with subordinate laminated clay; Kec Coffee sand member; Kec Tombigbee sand member)
  - Kt**  
Tuscaloosa formation  
(Irregularly bedded sand, clay, gravel, and lignite)  
UNCONFORMITY
  - CD**  
Shaly and oolitic limestone, chert, cherty limestone, and sandstone, almost wholly of Mississippian age

Paleozoic geology by W. C. Morse  
 Cretaceous geology by L. W. Stephenson  
 Eocene geology by E. N. Lowe and Wythe Cooke  
 Vicksburg group by Wythe Cooke  
 Catahoula, Hattiesburg, Pascagoula, and Citronelle formations by G. C. Matson  
 Pliocene (in part), Pleistocene, and Recent geology by E. W. Shaw and G. C. Matson

**RECONNAISSANCE GEOLOGIC MAP OF MISSISSIPPI**  
 Prepared in cooperation between the United States Geological Survey  
 and the Mississippi State Geological Survey  
 Compiled by L. W. Stephenson

Base from U. S. G. S. one-millionth map

Scale 1:1,000,000

Note: The map does not show the surficial alluvial deposits of Pleistocene and Recent age in stream valleys, except in the Mississippi bottoms. The terrace sand and gravel of Pliocene and Pleistocene age, which occur along the western border of the upland and are largely though not entirely covered by the loess, are not shown because their distribution is not known in sufficient detail.