

Description of Map Units

- QUATERNARY SYSTEM**
- HOLOCENE**
- Ha** **Holocene undifferentiated alluvium**—undifferentiated deposits of small upland streams; unconsolidated alluvial deposits of minor streams and creeks filling valleys incised into older deposits, with textures varying from gravelly sand to sandy mud.
  - Hb** **Holocene backswamp**—gray to grayish brown, fine-grained Holocene sediments, underlying isolated cypress swamps within the valleys of small streams and rivers.
  - Hcs** **Holocene coastal swamp**—gray to black clays of high organic content and thick peat beds, underlying freshwater marsh and swamp.
  - Hcm** **Holocene coastal marsh**—gray to black, fine-grained, underconsolidated sediments with high organic content and peat beds, underlying coastal marsh.
- PLEISTOCENE**
- PRAIRIE ALLOGROUP**
- Pph** **Hammond alloformation**—deposits of Sangamon to middle Wisconsin Coastal Plain streams. In general, it consists of stiff, light brown-white and light orange-white, fine-medium sandy mud and mud. These sediments are frequently interbedded with thin sand and silt layers and isolated, thick sand bodies are locally present.
  - Ppic** **Relict Pleistocene coastal ridges**—Eastern end of Pleistocene coast-parallel ridges mapped along southern edge of the coast-parallel surface of the Prairie. Ridges associated with Prairie Allogroup consist of light gray-brown muddy fine sand with mottling of orange rust streaks and stains.
- Open Water, Inundated Area, Wetland**
- Normal Fault**—ball and bar on downthrown side
- Concealed Fault**—ball and bar on downthrown side
- Escarpments**—Marks the valley walls of late Pleistocene paleovalleys within the Hammond alloformation.
- Streams**
- Contact**—includes inferred contacts.
- Topographic Contours**

**References:**

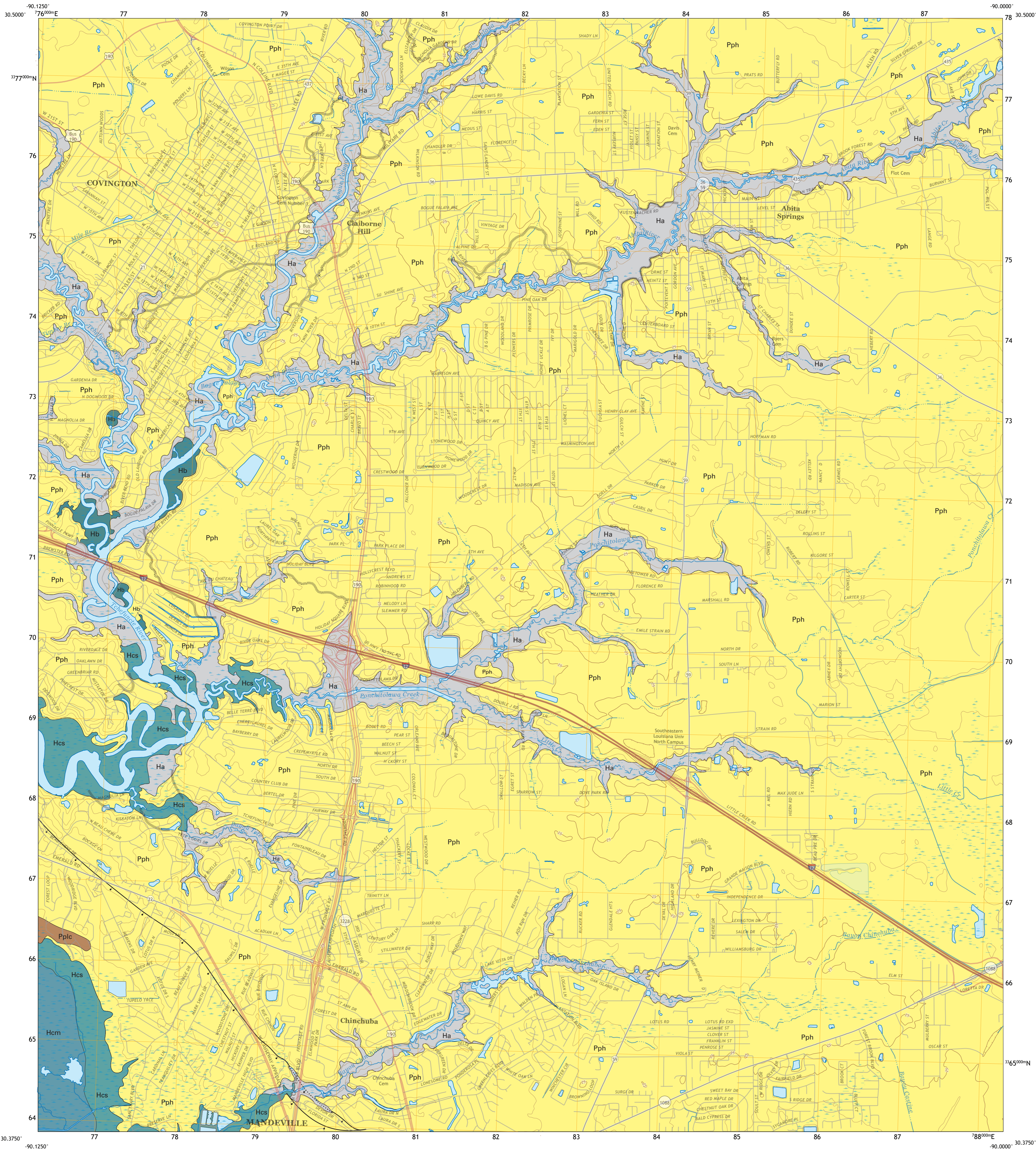
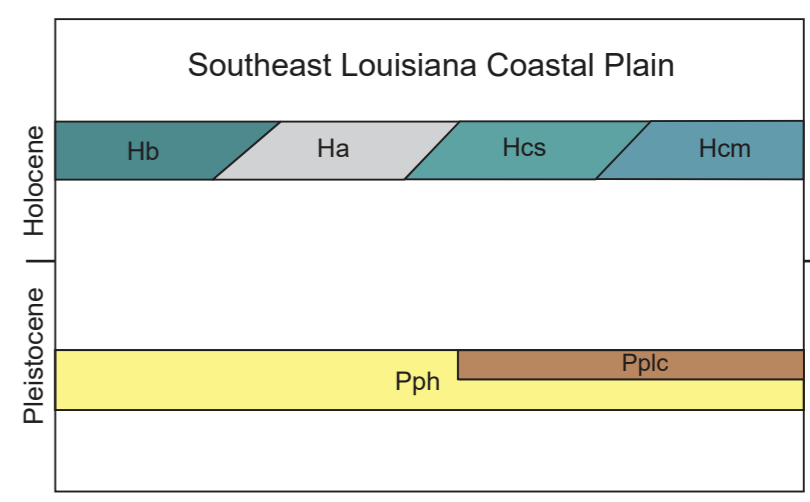
Cullinan, T. A., 1969. Contributions to the geology of Washington and St. Tammany parishes, Louisiana: U.S. Army Corps of Engineers, New Orleans district, 287 p. plus plates.

Flocks, J. M., Kulp, J. Smith, and S. J. Williams, 2009. Review of the geologic history of the Pontchartrain Basin, Northern Gulf of Mexico: Journal of Coastal Research, v. 54, p.12-22.

Heinrich, P. V., 2006. Pleistocene and Holocene fluvial systems of the lower Pearl River, Mississippi and Louisiana, USA: Gulf Coast Association of Geological Societies Transactions, v. 56, p. 267-278.

McCulloch, R. P., P. V. Heinrich, and J. Snow (compilers), 2003. Pontchartrain 30 x 60 minute geologic quadrangle: Baton Rouge, Louisiana Geological Survey, scale 1:100,000.

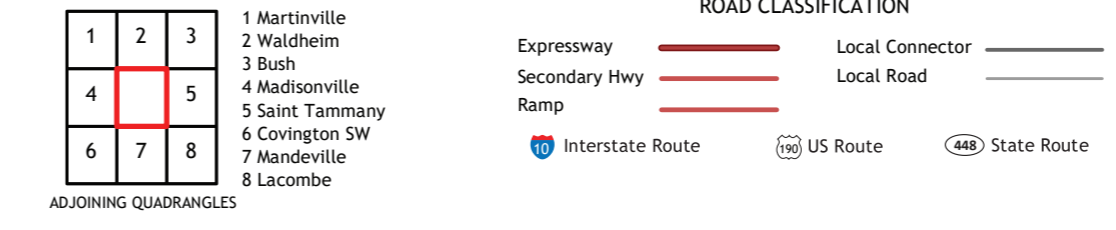
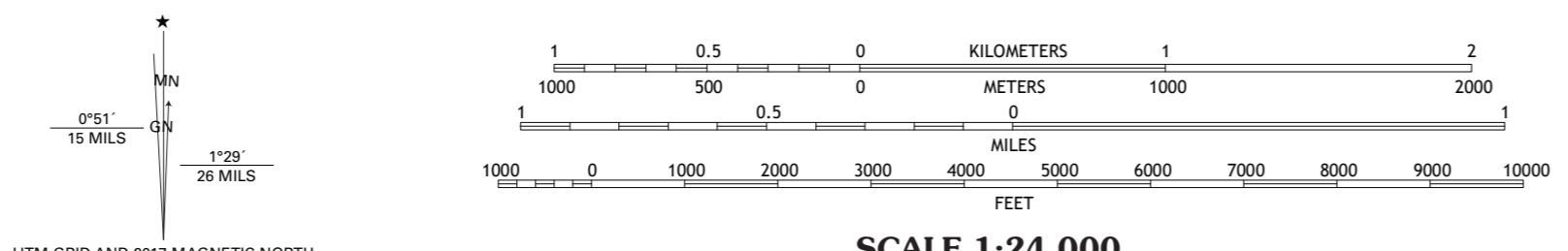
Correlation of Map Units



Produced and published by the Louisiana Geological Survey  
 3079 Energy, Coast & Environment Building, Louisiana State University  
 Baton Rouge, LA 70803 • 225/578-5320 • www.lsu.edu/lgs/

This geologic map was funded in part by the USGS National Cooperative Geologic Mapping Program under STATEMAP award number G20AC00239, 2020.

Copyright ©2021 by the Louisiana Geological Survey  
 Geology: Paul V. Heinrich, Marty Horn, and Richard P. McCulloch  
 GIS Compilation/Cartography: Robert L. Paulsell



**SCALE 1:24,000**

Base map from U.S. Geological Survey 1:24,000 GeoPDF  
 National Geospatial Program US Topo Product Standard, 2011.  
 Universal Transverse Mercator Projection, Zone 15  
 North American Datum 1983 (NAD 83)  
 Contour Interval 5 Feet  
 North American Vertical Datum 1988

**Geology of the Covington 7.5 minute quadrangle  
 St. Tammany Parish, Louisiana**

Base Map.....United States Geological Survey, 2020  
 Boundaries.....LADOTD, 2007  
 Contours.....National Elevation Dataset, 2008 - 2011  
 Hydrography.....National Hydrography Dataset, 2002 - 2017  
 Names.....GNIS, 1980 - 2017  
 Roads.....U.S. Census Bureau, 2017  
 Wetlands.....FWS National Wetlands Inventory 2021

This research is supported by the U. S. Geological Survey, National Cooperative Geologic Mapping Program. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U. S. Government or the state of Louisiana. This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.

This map has been carefully prepared from the best existing sources available at the time of preparation. However, the Louisiana Geological Survey and Louisiana State University do not assume responsibility or liability for any reliance thereon. This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such data are the sole responsibility of the user. These geologic quadrangles are intended for use at the scale of 1:24,000. A detailed on-the-ground survey and analysis of a specific site may differ from these maps.