

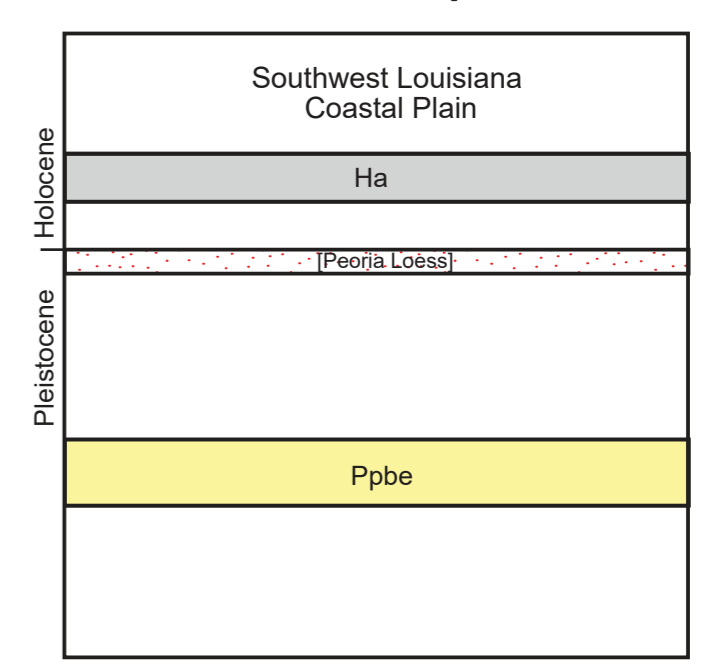
Description of Map Units

- 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.
- PLEISTOCENE**
- LOESS**—Eolian silt veneer of late Wisconsin age (Peoria Loess) mantling Pleistocene strata. Loess is 1-3 m thick in Mire quadrangle (Miller, 1983) and consists of gray to brown clayey silt to silty clay, in places with rootlets, organic matter, calcareous and/or iron-oxide stains and/or nodules, light gray to dark brown mottles, and some very fine to fine sand.
 - Ppbe** **Beaumont Alloformation**—Coastal-plain deposits of late to middle Pleistocene streams, forming the oldest and topographically highest of the Prairie surfaces of southwestern Louisiana. Gray, tan, brown, and red clay, silt, and sand, in places with Fe nodules (< 2 mm). Subsurface data indicate that in its upper 80+ m the unit in places shows a transition from fining-upward gravel, overlain by coarse sand and gravel, to fining-upward sand (coarse to fine) and clay at the surface. In areas to the north and west of the study area the surface exhibits relict channels of the Red, Mermentau, and Calcasieu Rivers, and the unit includes deposits of the Ingleside barrier trend (Houston Ridge).
- PRAIRIE ALLOGROUP**
- Open Water, Inundated Area, Wetland**
- Normal Fault**—Ball and bar on downthrown side.
- Inferred Fault**—Identity and existence certain, location inferred. Ball and bar on downthrown side.
- Contact**—includes inferred contacts.
- Streams**
- Topographic Contours**

References:

Miller, B. J. (compiler), [1983]. [Distribution and thickness of loess in Lake Charles, Louisiana 1 x 2 degree quadrangle]; Louisiana State University Department of Agronomy, Louisiana Agricultural Center, Louisiana Agricultural Experiment Station, Baton Rouge, unpublished map, Louisiana Geological Survey, scale 1:250,000.

Correlation of Map Units



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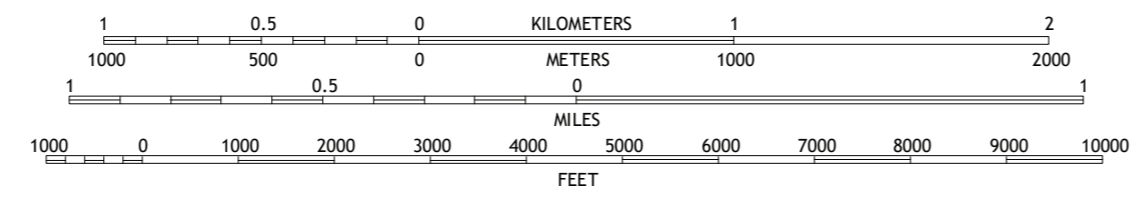
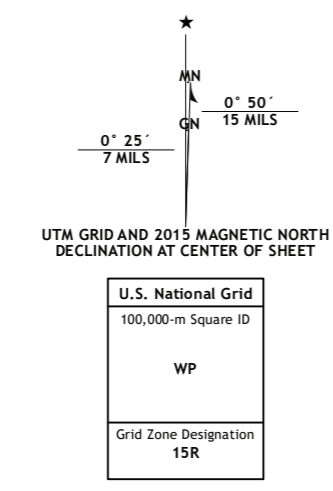
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SCALE 1:24,000

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
National Geodetic Vertical Datum 1988

1	2	3	1 Richard
2	3	4	2 Church Point
3	4	5	3 Sunset
4	5	6	4 Branch
5	6	7	5 Carriere
6	7	8	6 Crowley East
7	8		7 Duson
8			8 Lafayette



ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

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

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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.

Geology of the Mire 7.5 minute quadrangle
Acadia, St. Landry, and Lafayette Parishes, Louisiana