

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.
- Hcs** **Holocene coastal swamp and marsh**—Gray to black clays of high organic content and thick peat beds, underlying freshwater marsh and swamp.

PLEISTOCENE

- Peoria Loess**—Eolian silt veneer of late Wisconsin age (Peoria Loess) mantling Pleistocene strata. In French Settlement quadrangle loess is 1–3 m thick west of the Arnie River and Grays Creek valleys and less than 1 m thick to the east of them (Miller, 1983). It 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.

PRAIRIE ALLOGROUP

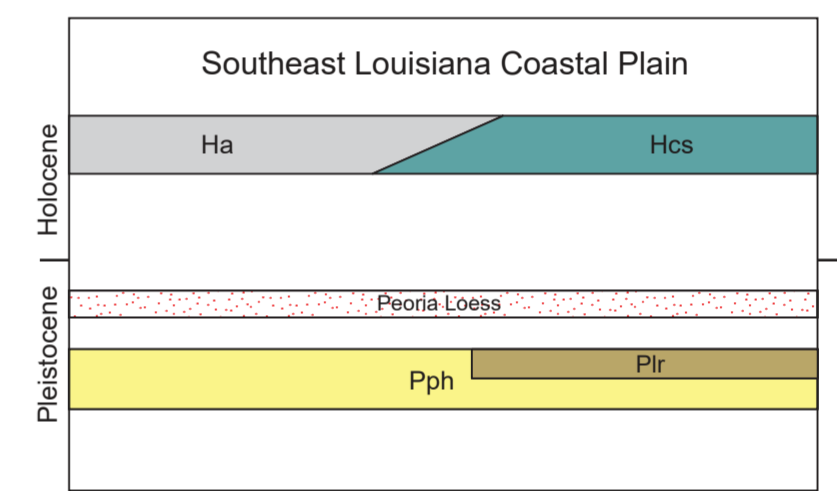
- Pph** **Hammond alloformation**—Deposits of middle to late Wisconsin coastal-plain streams in the Florida Parishes of southeastern Louisiana. In French Settlement quadrangle it consists of clayey very fine sand, grayish with yellowish-brownish mottles.
- Pplr** **Relic Pleistocene ridges**—Interbedded sandy and muddy sediments, with indications of coastal-marine and/or deltaic influence, composing Indian Camp Ridge. In Whitehall quadrangle directly to the northeast, at subsea elevations of -0.6 to -2 m, it contains beds of laminated mud with intact *Rangia* shells, and silty to fine sandy beds some of which contain fragmented oyster shells.

Open Water, Inundated Area, Wetland

- Escarpments**—Marks the valley walls of late Pleistocene paleovalleys within the Hammond alloformation.
- Streams**
- Contact**—Includes inferred contacts.
- Topographic Contours**

**References:**  
 McCulloh, R. P., 2007, A late Pleistocene low-relief constructional ridge in southern Livingston Parish, Louisiana: Louisiana Geological Survey Newsletters, v. 17, no. 2, p. 4–6.  
 Miller, B. J. (compiler), [1983], [Distribution and thickness of loess in Baton Rouge, 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Department of Agronomy, Louisiana Agricultural Center, Louisiana Agricultural Experiment Station, Baton Rouge, unpublished map, Louisiana Geological Survey, scale 1:250,000.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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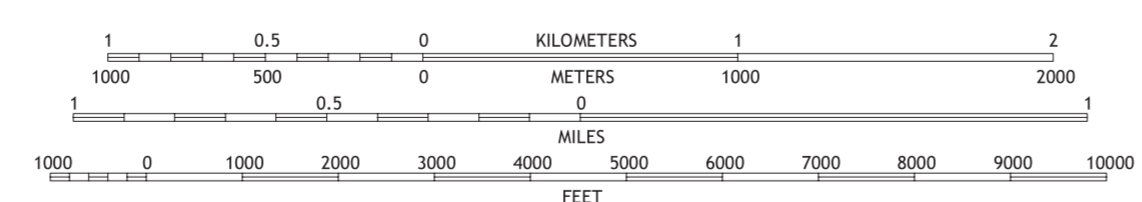
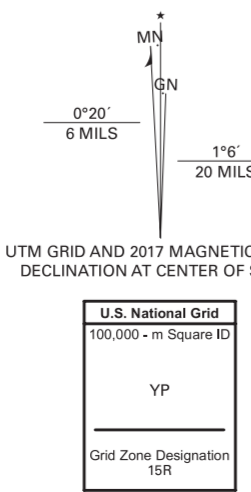
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Geology: Richard P. McCulloh and Paul V. Heinrich

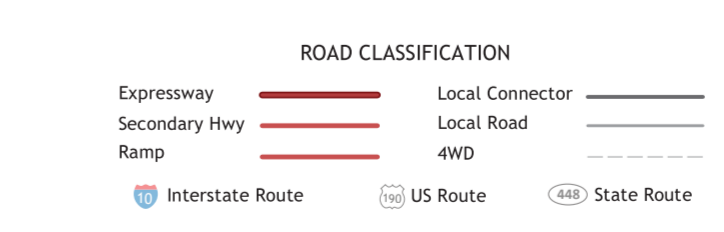
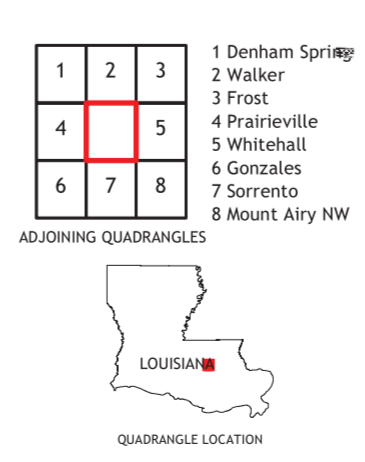
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Cartography: Robert L. Paulsell and Lisa Pond



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



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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 A detailed on-the-ground survey and analysis of a specific site may differ  
 from these maps.

**Geologic Map of the French Settlement 7.5 Minute Quadrangle  
 Ascension and Livingston Parishes, Louisiana**