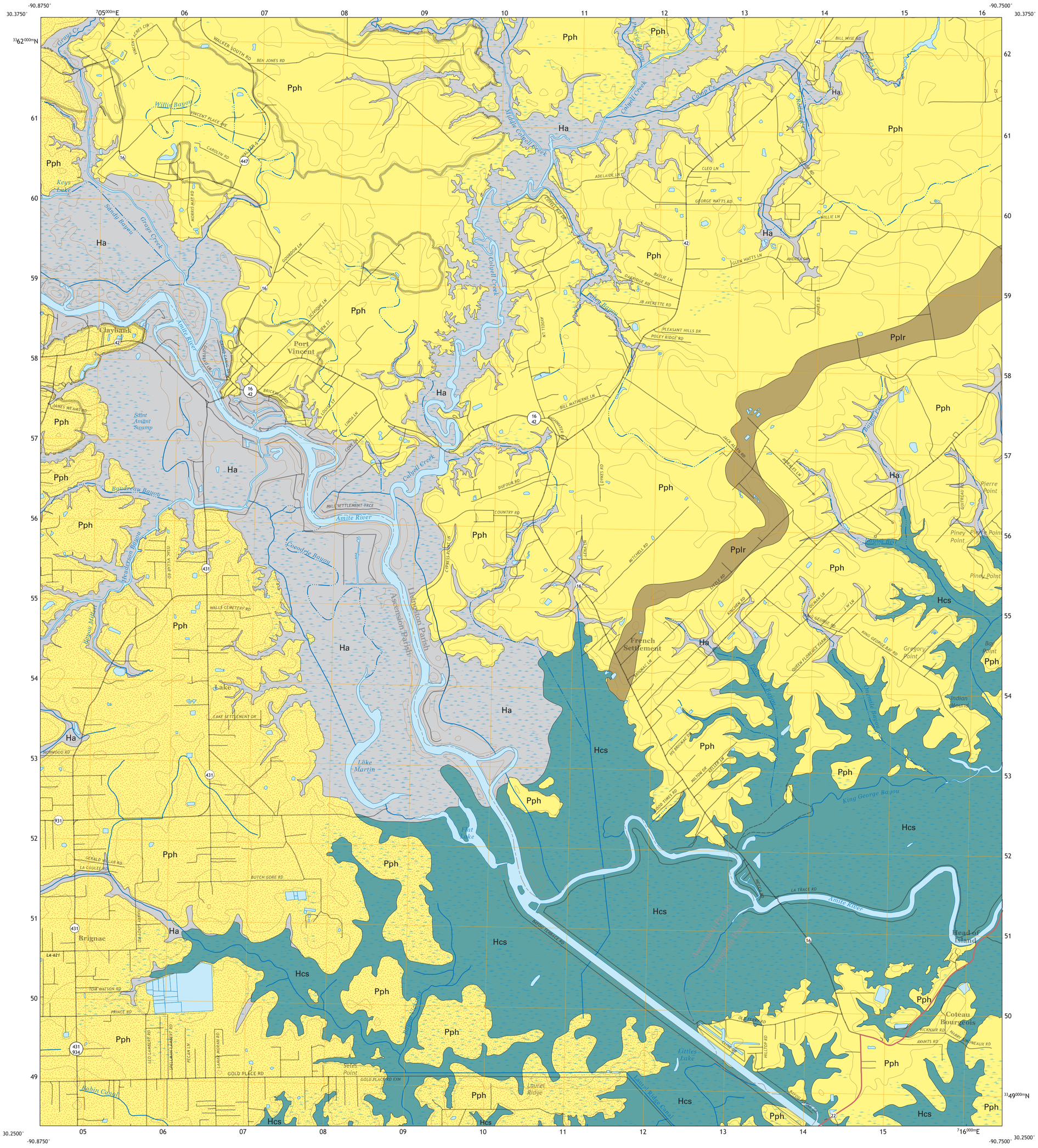
USGS science for a changing world

LSU | Louisiana Geological Survey

The National Map US Topo

FRENCH SETTLEMENT QUADRANGLE
LOUISIANA 7.5-MINUTE SERIES



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

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 Amite 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 — **Relict 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.

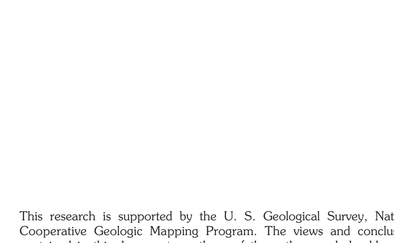
Topographic Contours

References:

McCulloh, R. P., 2007, A late Pleistocene low-relief constructional ridge in southern Livingston Parish, Louisiana: Louisiana Geological Survey NewsInsights, v. 17, no. 2, p. 4–6.

Miller, B. J. (compiler), [1983], [Distribution and thickness of loess in Baton Rouge, Louisiana 1 × 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



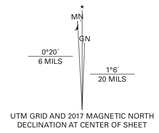
Produced and published by the Louisiana Geological Survey
3079 Energy, Coast & Environment Building, Louisiana State University
Baton Rouge, LA 70803 • 225/578-5320 • www.lsu.edu/lgs/

This geologic map was funded in part by the USGS National Cooperative Geologic Mapping Program under STATEMAP award number G19AC00223, 2019.

Geology: Richard P. McCulloh and Paul V. Heinrich

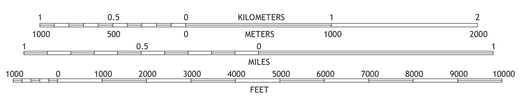
GIS Compilation: Robert L. Paulsell, Richard P. McCulloh, and Paul V. Heinrich

Cartography: Robert L. Paulsell and Lisa Pond



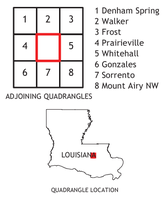
UTM GRID AND 2017 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
YP
Grid Zone Designation
15R



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



ROAD CLASSIFICATION

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

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