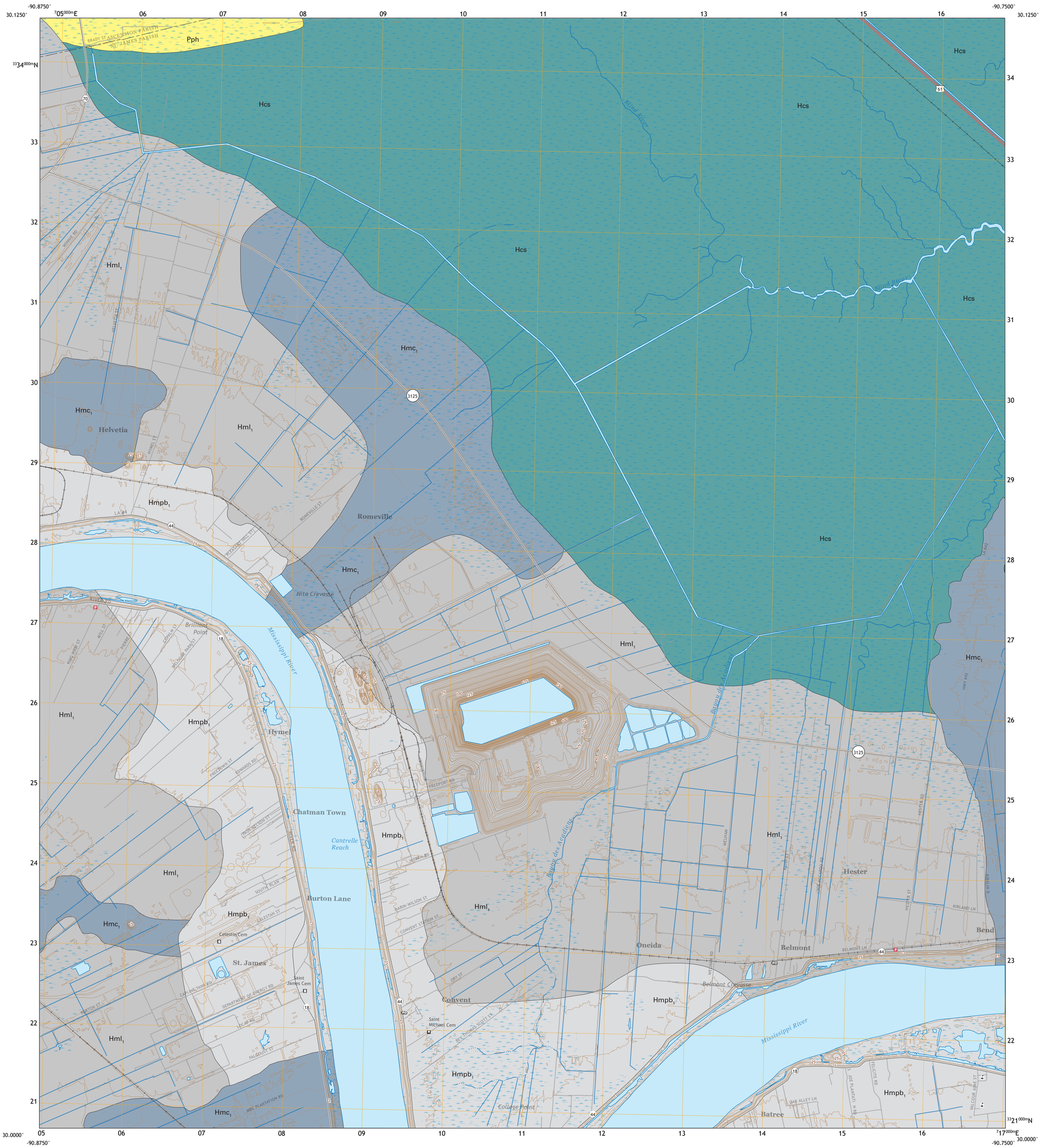
USGS science for a changing world | LSU Louisiana Geological Survey

The National Map US Topo

CONVENT QUADRANGLE
LOUISIANA 7.5-MINUTE SERIES



Description of Map Units

QUATERNARY SYSTEM

HOLOCENE

Hmpb$_1$ — **Mississippi River point bar deposits belt 1** — Point bar deposits of Mississippi River meander belt 1, buried by a thin layer of overbank sediments. Sand-size grains and deposit is composed of quartz, mica, iron oxide, and a trace of dark-colored mafic silicate minerals.

Hmc$_1$ — **Crevasse and crevasse complex deposits of the Mississippi River meander belt 1** — Silty to sandy crevasse splay deposits of Mississippi River meander belt 1. Crevasse splays are partially overlain in some places by point bar deposits. Grains are silt to sand-size and the deposit is composed of quartz, mica, iron oxide, and a trace amount of dark-color mafic silicate minerals.

Hml$_1$ — **Levee overbank flood deposits of the Mississippi River meander belt 1** — Clayey to Silty deposits of the natural levee flanking Mississippi River meander belt 1. This deposit becomes more clayey at the distal side of the river. Minerals presents include quartz, iron oxide, and mica.

Hcs — **Coastal Swamp** — Mud deposit in paralic setting of seasonally fluctuating fresh and brackish surface water. Dark steel gray, black, and brown-black organic-rich mud with less than 0.1% silt fraction.

PLEISTOCENE

Pph — **Hammond alloformation** — Rust-yellow, rust-orange, and reddish-brown silty and fine sandy mud. Depositional structures (laminations) and half-centimeter scale Skolithos ichnofossils are diagnostic. Clay vs. silt and fine sand fraction vary with location, the latter dominated by quartz with feldspar and light and dark mica.

Open Water, Inundated Area, Wetland

Streams

Contacts

Topographic Contours

References:

Arrick, C., Seely, F., Cameron, R., and Walker, A., 1892, Donaldsonville, Louisiana 15 minute topography quadrangle: United States Geological Survey.

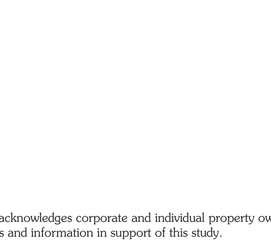
Johnson, L. C., 1891, The Nita crevasse [Louisiana]: Bulletin of the Geological Society of America, v. 2, p. 20-25.

McCulloh, R., Heinrich, P., and Snead, J., 2003, Ponchatoula 30 x 60 minute geologic quadrangle: Louisiana Geological Survey, scale 1:100,000.

Saucier, R. T., 1963, Recent geomorphic history of the Pontchartrain basin, Louisiana State University Press, v. 9.

Saucier, R.T., 1994, Geomorphology and Quaternary geologic history of the Lower Mississippi Valley, US Army Engineer Waterways Experiment Station.

Correlation of Map Units



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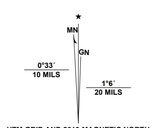
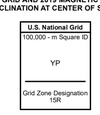
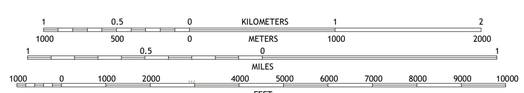
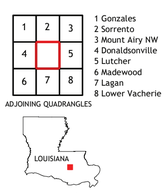


UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET





SCALE 1:24,000
CONTOUR INTERVAL 5 FEET
NORTH AMERICAN DATUM OF 1983 (NAD 83)
WORLD GEODETIC SYSTEM 1984 (WGS 84)
UNIVERSAL TRANSVERSE MERCATOR PROJECTION, ZONE 15
NORTH AMERICAN VERTICAL DATUM OF 1988



ROAD CLASSIFICATION

Expressway — Local Connector
Secondary Hwy — Local Road
Ramp — 4WD
Interstate Route (10) — US Route (61) — State Route (75)

Geology of the Convent 7.5 Minute Quadrangle, St. James and Ascension Parishes, Louisiana, 2023

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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