

## The National Map US Topo

SICILY ISLAND QUADRANGLE LOUISIANA- 7.5-MINUTE SERIES

## **Description of Map Units**

Ha

Harm

Harl

Hard

Hmpb<sub>2</sub>

Hml,

Hmc<sub>2</sub>

Hmd,

Qc

Qaf

Pmr

Pib

### QUATERNARY SYSTEM

HOLOCENE

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. Backswamp deposits—fine-grained Holocene deposits of rivers, underlying the flood basins between meander belts. Arkansas River meander-belt deposits—point bar deposits underlying meander belts of the Arkansas River. Arkansas River natural levee deposits—deposits forming low natural levees flanking the meander belts of the Arkansas River. Arkansas River distributary deposits—sandy and silty sediments occupying abandoned courses of a relict distributary system of the Arkansas River. Mississippi River point bar deposits, belt 2-point bar deposits of Mississippi river meander-belt 2, buried by a thin layer of overbank sediments. Natural levee complex of Mississippi River meander belt 2 deposits of the natural levees flanking Mississippi River meander belt 2. Crevasse complex of Mississippi River meander belt 2 crevasse channel and splay deposits of Mississippi River meander belt 2. Distributary complex of Mississippi River meander belt 2 natural levee deposits of the distributary course of Mississippi River meander belt 2. QUATERNARY UNDIFFERENTIATED Quaternary colluvium—undifferentiated colluvial deposits forming lobate to apronlike landforms. Quaternary alluvial-fan deposits-unnamed alluvial-fan deposits. PLEISTOCENE Peoria Loess-Eolian silt veneer of late Wisconsin age mantling Pleistocene and older strata. Loess is shown where the total thickness is 1 meter or greater. Sicily Island Loess—Eolian silt veneer, possibly of late Sangamon to early Wisconsin age, mantling Pleistocene and older strata. Loess

#### Braide Belts/Valley Trains

**Upper Macon Ridge alloformation**—Sandy fluvial deposits formed by the Mississippi River during a braided depositional regime associated with the transport of glacial outwash. Sand and gravel channel and bar deposits that underlie a well-preserved braid belt that is sometimes are capped by Peoria Loess, loess-derived colluvium and/or silty alluvium, and/or fine-grained flood basin sediments. The Upper Macon Ridge alloformation is differentiated from the adjoining Lower Macon Ridge alloformation by a generally lower elevation and distinct crosscutting relationships. It is the stratigraphically higher subunit (geomorphically lower subunit of Rittenour et al., 2007). Dating by the optically stimulated luminescence method (Rittenour et al. 2005, 2007) indicates that the two principal braid belts in Louisiana are both of middle Wisconsin age with the Upper Macon Ridge Alloformation slightly the younger.

is shown where the total thickness is 1 meter or greater.



#### INTERMEDIATE ALLOGROUP

**Bentley alloformation**—dissected alluvial deposits of early Pleistocene streams of primarily the Red River in central Louisiana. The unit is blanketed by yellow loam and incises Tertiary formations; it is incised by younger subunits of the Intermediate allogroup, and by the Prairie Allogroup and younger strata. Equivalent to the Natchez Formation of Mississippi.

## TERTIARY SYSTEM MIOCENE-OLIGOCENE

Catahoula Formation—texturally heterogeneous suite of generally poorly sorted sediments comprising primarily silt/siltstone to very fine quartzose sand/sandstone, with and without admixtures of clay. Overall or predominant grain size of sand/sandstone tends to average very fine to fine sand. Coarser grains may comprise quartz, chert, and/or mud clasts. Contains petrified wood and tuffaceous sandstone locally. Weathers locally to produce a thick (up to 2 meters) gray/tan loamy surface unit. Characteristics of the surface Catahoula accord generally with continental, fluvial-dominated deposition (Fisk, 1940; Hinds, 1999), with the large proportion of silt observed in places suggestive of the onset of transition to deltaic facies (McCulloh and Heinrich, 2002). Recent work indicates a palynological age of early late Miocene for the Catahoula in its type area in eastern north Louisiana (Wrenn et al., 2003), in contrast to the Oligocene age suggested by subsurface-to-surface correlation in the Texas Gulf Coast (Galloway, 1977, Galloway et al., 1982).

# Open Water, Inundated Area, Wetland

— Contact—includes inferred contacts.

- Streams

.U.S. Census Bureau, 2017

..FWS National Wetlands Inventory 2021

Roads...

Wetlands.

**Topographic Contours** 

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Geologic Map of the Sicily Island 7.5 minute quadrangle Catahoula Parish, Louisiana