



GEOLOGIC MAP of JACKSON COUNTY

Jackson, Harrison, George, and Stone Counties, Mississippi

Geology by Lindsey Stewart and James E. Starnes, RPG

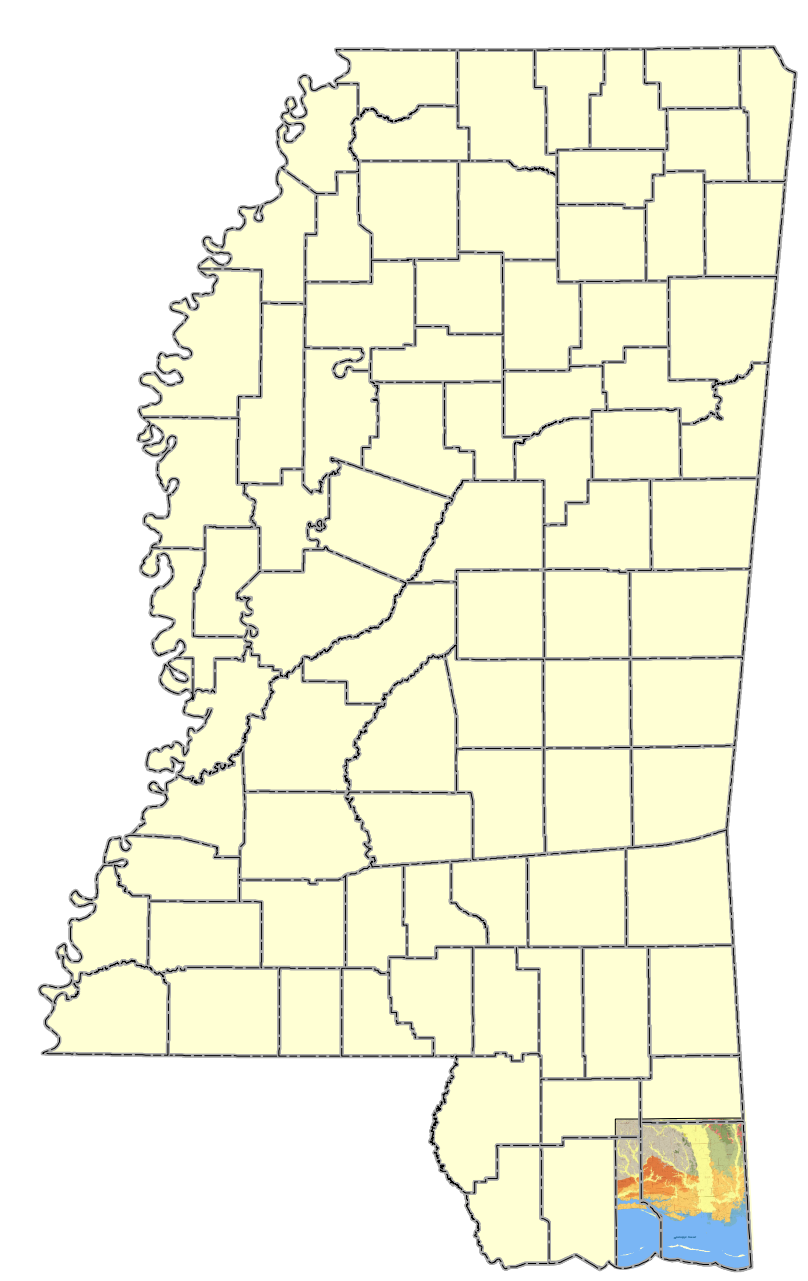
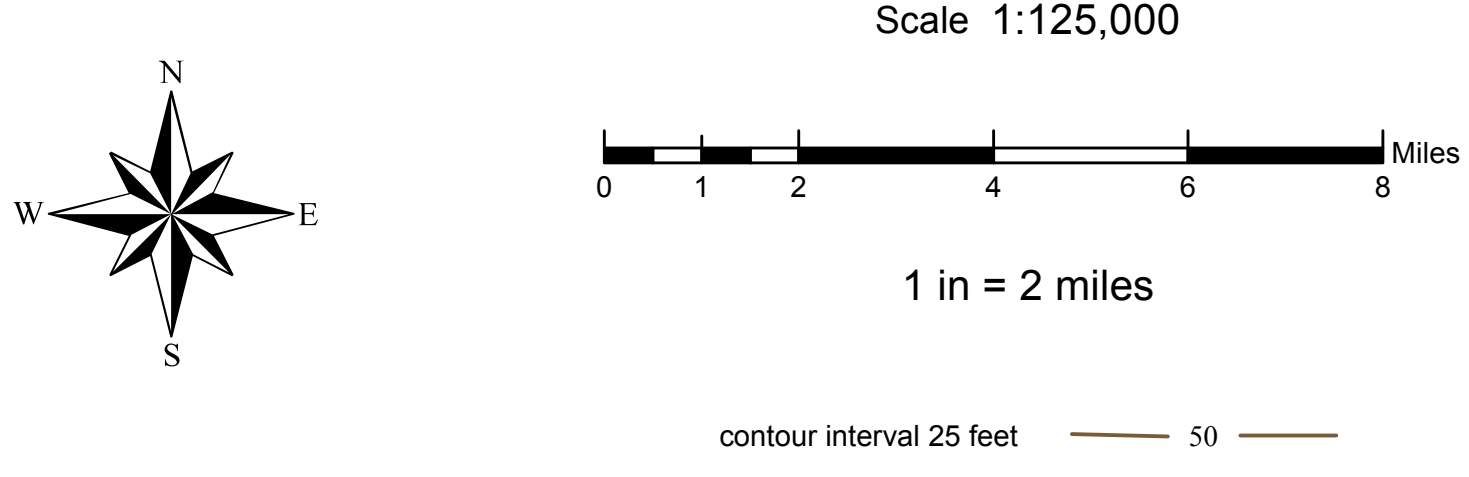
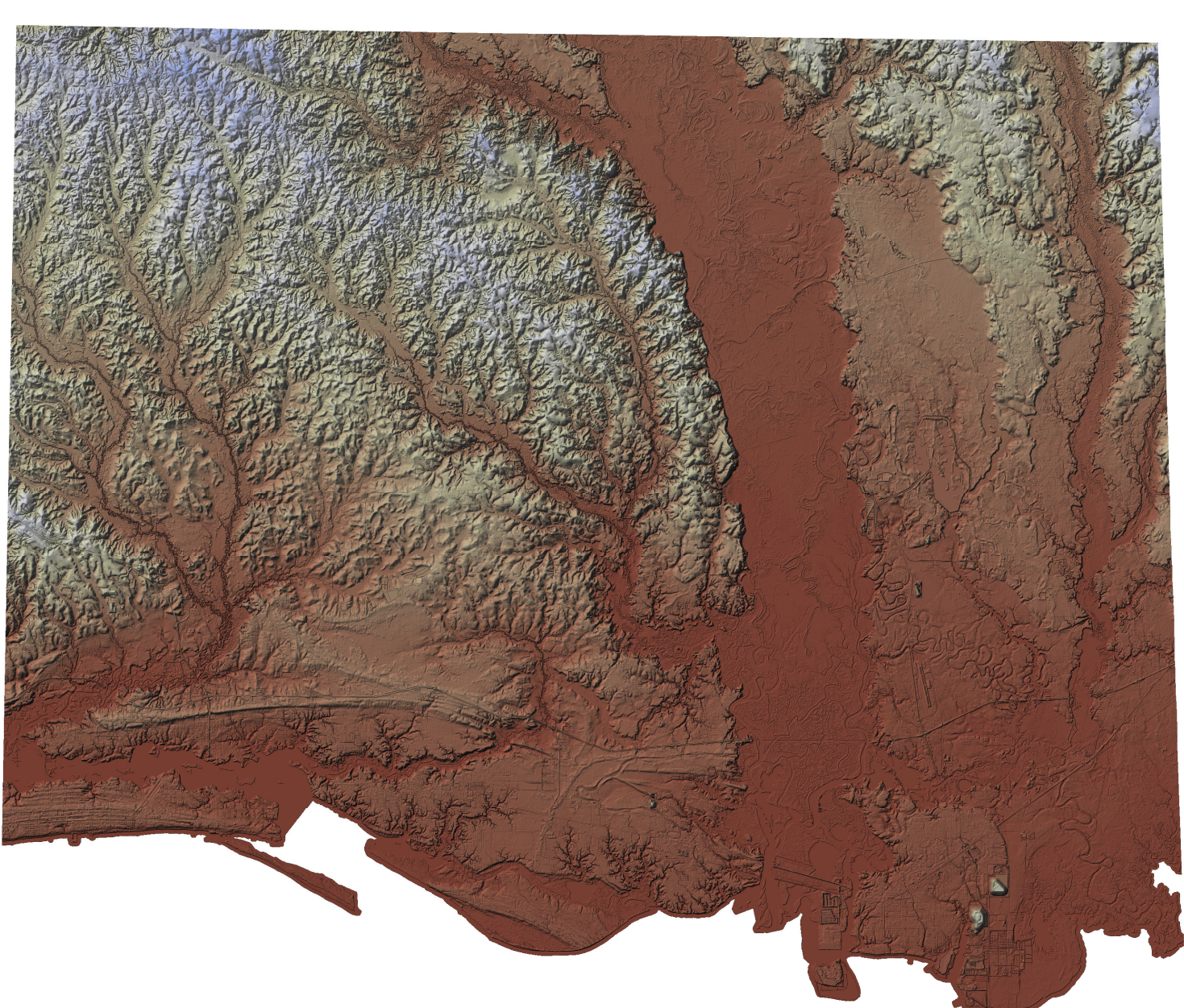
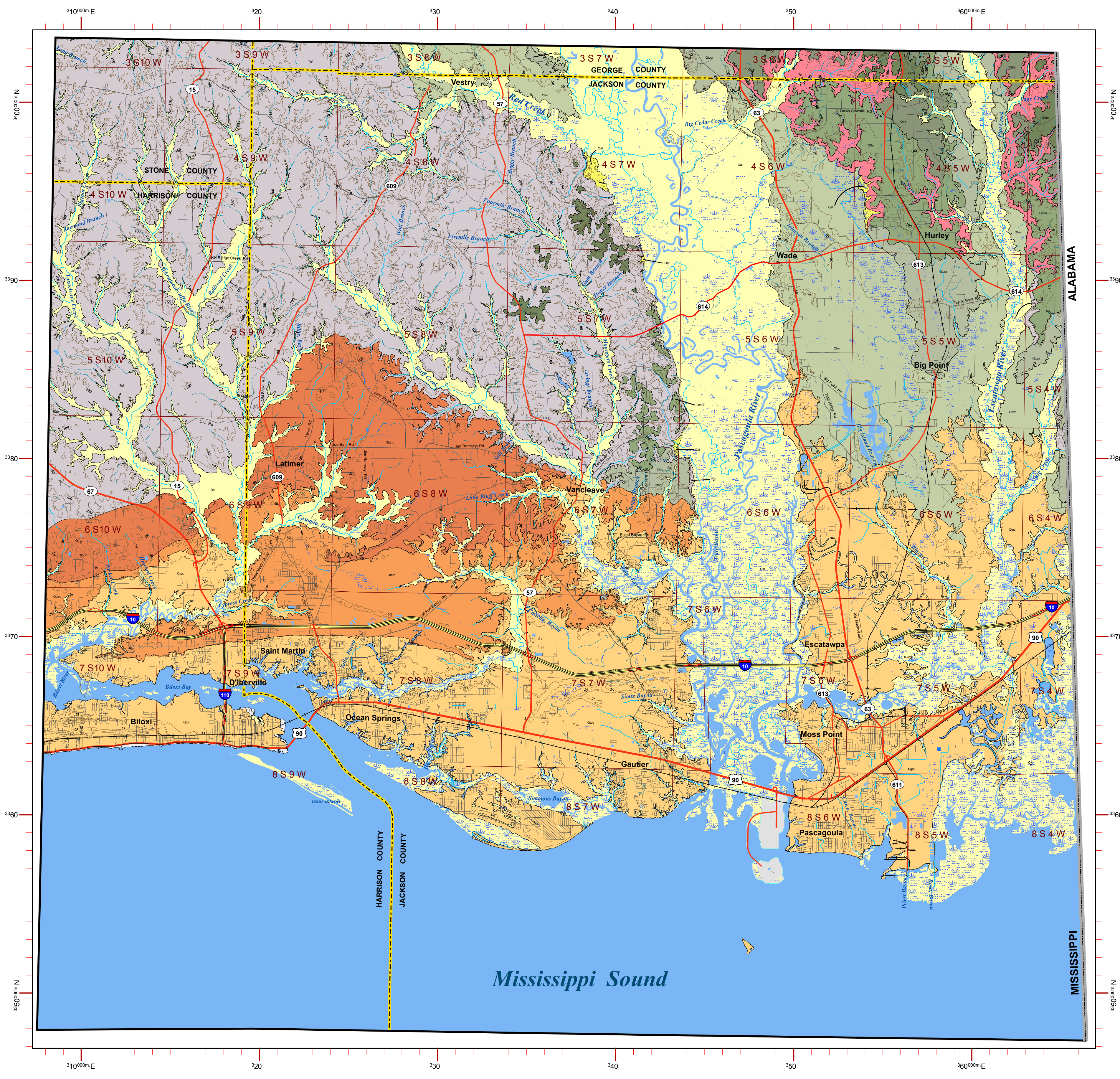
This report prepared under the supervision of James E. Starnes, RPG



2017

MAPPING UNITS

HOLOCENE	Fill	RECENT FILL	
	Qaf	ALLUVIAL FAN Alternating silts, sands. Coarsest at the apex of the fan, fining laterally (radially) from the apex of the fan.	
	Qal	ALLUVIUM Flood plain sands, silts, gravels, and clays. Lower-most reaches of stream alluvium may grade into tidally-influenced, brackish water marshes and muddy coastal deposits.	
QUATERNARY	Qlpc	COASTAL TERRACES PAMLICO COASTAL TERRACE Interval: 0 to 30 feet; Terrace: 25 feet	
	Qtbr	BIG RIDGE Interval: 30 to 50 feet; Terrace: 50 feet	
	Qtghc	GOOD HOPE Interval: 50 to 110 feet; Terrace: 100 feet	
	PLEISTOCENE	Qtwr	RIVER TERRACES WADE TERRACE Interval: 30 to 50 feet; Terrace: 50 feet
		Qtbpr	BIG POINT TERRACE Interval: 50 to 80 feet; Terrace: 70 feet
		Qthur	HURLEY TERRACE Interval: 80 to 110 feet; Terrace: 100 feet
TERTIARY	Qthr	HARLESTON TERRACE Interval: 110 to 130 feet; Terrace: 130 feet	
	Qtrnr	MOVELLA TERRACE Interval: 130 to 180 feet; Terrace: 150 feet	
	MIOCENE	Tgf	GRAHAM FERRY FORMATION Sand, dark greenish-gray, yellow to tan, micaceous and glauconitic (exclusively in the fine-grained sands), fine- to coarse-grained, predominantly quartzose, cross-bedded to massive; Lammar to thinly-bedded quartz pea gravels in coarser fraction. Weathers to orange, purple, red, pink with reddish-brown colored pebbly ironstone residuum. Clay, green, gray, brown, weathers mottled purple to pink and white to reddish-brown, silty to sandy, locally lignitic.
Tp		PASCAGOULA FORMATION Shallow marine to intertidal deposits, contains the marker fossil, <i>Rangia johnsoni</i> . Clay, green, gray, brown, and white; locally lignitic, locally calcareous and fossiliferous. Weathers mottled purple to pink and white to reddish-brown, silty to fine-sandy. Sand, dark greenish-gray and glauconitic, micaceous, locally lignitic, fine- to coarse-grained, predominantly quartzose, silicified wood common.	

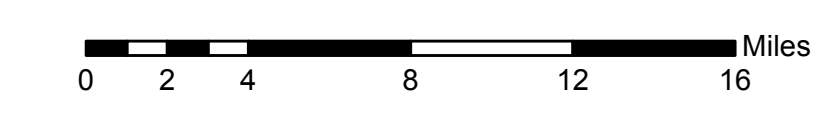


Geology field checked in 2016 and 2017 using U.S. Geological Survey 7.5-minute topographic quadrangles and LIDAR in the studied area. Universal Transverse Mercator projection, 1983 North American datum, 1000-meter Universal Transverse Mercator 1983 datum grid ticks, zone 16, shown in red. January 2017, magnetic north declination in county center is 1°26' west of true north, 0°20' uncertainty, changing by 0°7' west per year.

Sources: Contours derived from Mississippi Automated Resource Information System (MARIS) vectorizing the mylar separate of the USGS topographic quadrangles; Public Land Survey System, 1:24,000 scale, from MARIS; fresh water and salt marsh from Mississippi Digital Earth Model (MDEM); railroad features from Federal Railroad Administration (FRA), edition 2002, 1:100,000 scale; road features derived from the Mississippi Department of Transportation (MDOT) road centerlines and (MDEM); Declination, National Oceanic and Atmospheric Administration (NOAA). We thank the US Forest Service for their cooperation and for facilitating the data collection and field work necessary for this mapping project. Light Detection and Ranging (LIDAR) 2015 (0.7 meter nominal point spacing) project from the Mississippi Department of Environmental Quality (MDEQ), NOAA, USGS, Natural Resources Conservation Service (NRCS), and Mississippi State University (MSU).

Geographic Information System by Daniel W. Morse. MDEQ does not warrant the accuracy or completeness of the source data for any particular purpose. Geologic maps are only a guide to current understanding and do not eliminate the need for detailed investigations of specific sites for specific purposes.

This map was produced by the Mississippi Office of Geology in cooperation with the Office of Land and Water Resources.



Bare Earth LIDAR Hillshade of the Jackson County Study Area

Location of Study Area