



MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF GEOLOGY
OPEN-FILE REPORT 280

GEOLOGIC MAP
of the
BILOXI QUADRANGLE

Harrison and Jackson Counties, Mississippi

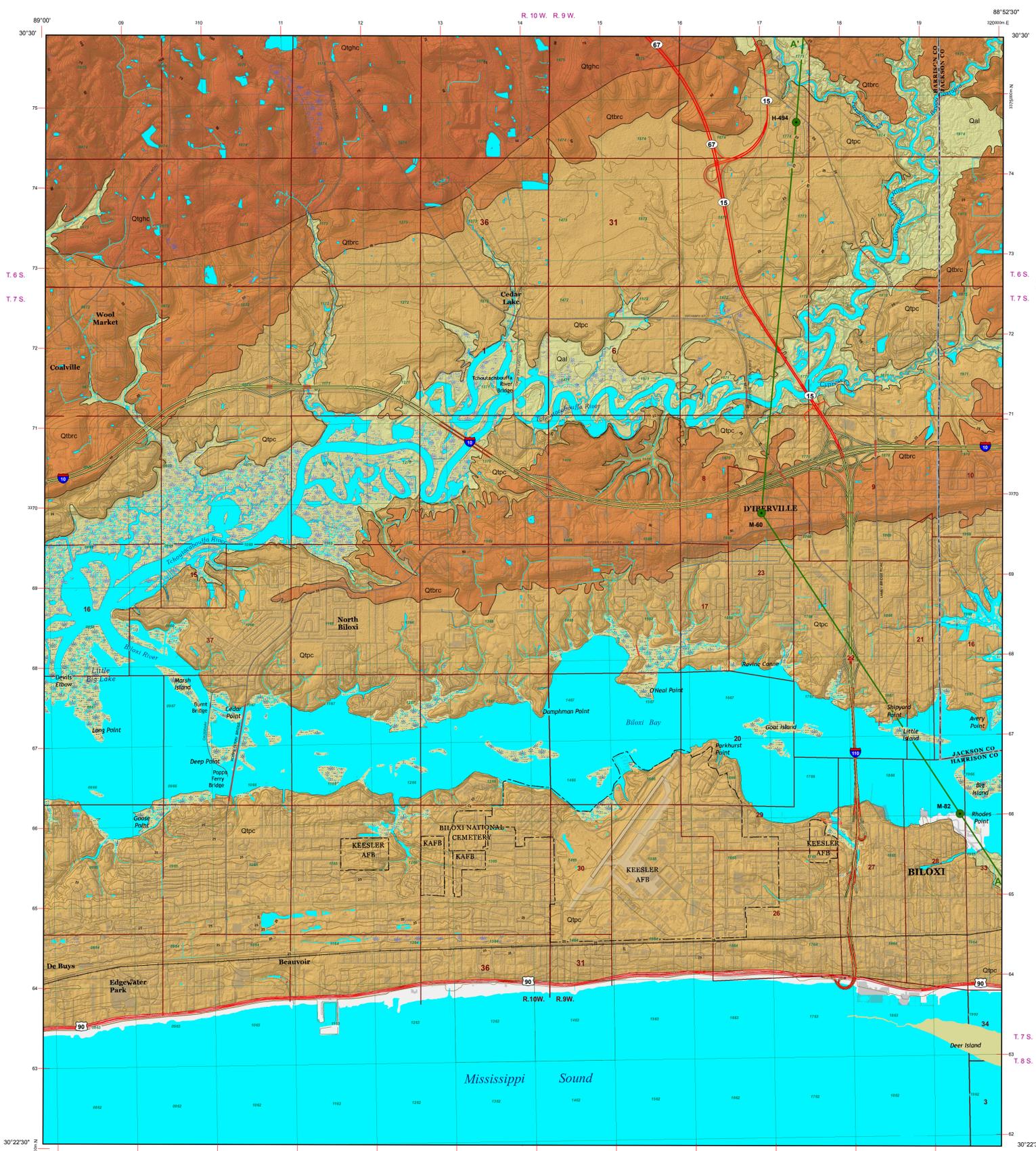
Geology by James E. Starnes, RPG

2017

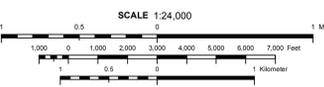
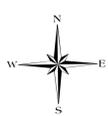
DESCRIPTION OF MAP UNITS



| Geologic Unit | Description |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Holocene | |
| Fill | RECENT FILL |
| Alluvium | ALLUVIUM |
| Qal | 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 (not mapped). |
| Quaternary | |
| Pleistocene | |
| COASTAL TERRACES | |
| PAMLICO COASTAL TERRACE | |
| Qtpc | 25 foot Terrace: Sand, medium- to fine-grained, quartzose, gray to tan, slightly carbonaceous. Thinly bedded clays and peat. Weathers yellow to tan. The upper-limit of the Pamlico Coastal Terrace forms a wave-cut escarpment with an eroded older coastal terrace at approximately 25 feet above mean sea level. This escarpment is typified north of the Back Bay of Biloxi at D'Iberville in the northern portions of irregular Section 23, Township 7 South, Range 9 West. This escarpment is less distinct north of the Tchoutacabouffa River. |
| Qtbrc | BIG RIDGE COASTAL TERRACE 50 foot Terrace: Sand, medium- to fine-grained, quartzose, gray to tan, slightly carbonaceous and clayey in places. Weathers yellow to mottled red and brown. The upper-limit of this terrace surface is approximately 50 to 60 feet above mean sea level in elevation. This terrace surface is better preserved just to the east of this map and serves as the basis for the habitat of the Mississippi Sandhill Crane National Wildlife Refuge. |
| Qtghc | GOOD HOPE COASTAL TERRACE 100 foot Terrace: Sand, medium- to fine-grained, quartzose with thinly bedded basal chert gravel, gray to tan, slightly carbonaceous and clayey in places. Weathers yellow to mottled red and brown. The upper-limit of this terrace surface is approximately 100 feet above mean sea level in elevation. This terrace surface is typified just to the east of this map in Section 2, Township 6 South, Range 8 West in Jackson County. |
| M-60 | Drill-hole locality and identification number |



GEOLOGIC MAP
BILOXI QUADRANGLE
Harrison and Jackson Counties,
Mississippi



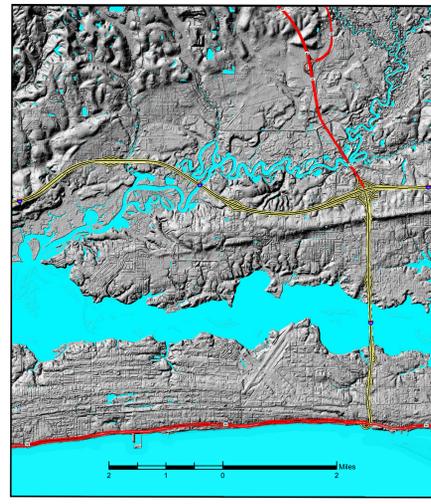
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Geology field checked in 2015 to 2017 using the 1992 U.S. Geological Survey 7.5-minute topographic quadrangle Universal Transverse Mercator (UTM) projection, 1983 North American datum, contour interval 5 feet. 1000-meter UTM 1983 datum grid ticks, zone 16, shown in red. January 2016, magnetic north declination in quadrangle 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 1992 topographic quadrangle; topography compiled in 1952; Deer Island derived from USTOPO 2015 Orthoimage; Public Land Survey System, 1:24,000 scale, from MARIS; coastal water features derived from the 1992 7.5-minute topographic quadrangle; 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 and building footprints derived from MDEM; Declination, National Oceanic and Atmospheric Administration (NOAA); United States National Grid (USNG) 16R CU Recovery Grid areas identified by UTM Easting then Northing coordinate principal digits. The Office of Geology 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), Mississippi State University (MSU), USGS, NOAA, and Natural Resources Conservation Service (NRCS).

Geographic Information System by Daniel W. Morse. MDEQ does not warrant the accuracy or completeness of the source data. 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 United States Geological Survey, National Cooperative Geologic Mapping Program, under STATEMAP grant #G15AC00220.



Structural Cross-Section of the Biloxi 7.5-Minute Geologic Quadrangle

