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THE UNIVERSITY OF TEXAS AT AUSTIN  
In cooperation with the STATEMAP component of the  
National Cooperative Geologic Mapping Program,  
administered by the U.S. Geological Survey

Barrier-Island Systems, Mustang Island

(Wetland classification of coastal geologic environments)  
(Wetland classification terminology in *italics*)

MODERN TO HOLOCENE

Estuarine Environment

- E2EM1N—Low marsh; *intertidal, emergent, persistent, regularly flooded.*
- E2EM1Ns—Low marsh on spoil; *intertidal, emergent, persistent, regularly flooded, spoil.*
- E2EM1P—High marsh; *intertidal, emergent, persistent, irregularly flooded.*
- E2EM1Ps—High marsh on spoil; *intertidal, emergent, persistent, irregularly flooded, spoil.*
- E2USM—Irrregularly exposed flat; *intertidal, unconsolidated shore, irregularly exposed.*
- E2USN—Low flat; *intertidal, unconsolidated shore, regularly flooded.*
- E2USNs—Low flat on spoil; *intertidal, unconsolidated shore, regularly flooded spoil.*
- E2USP—High flat; *intertidal, unconsolidated shore, irregularly flooded.*
- E2USPs—High flat on spoil; *intertidal, unconsolidated shore, irregularly flooded, spoil.*
- E2SS3—Mangrove area; *intertidal, scrub shrub, broadleaved evergreen.*
- E2AB1P—High algal flat; *intertidal, aquatic bed, algal, irregularly flooded.*
- E2AB1N—Low algal flat; *intertidal, aquatic bed, algal, irregularly flooded.*
- E1AB1—Algal area; *subtidal, aquatic bed, algal.*
- E1AB3—Seagrass area; *subtidal, aquatic bed, seagrass.*
- E1AB3x—Seagrass area; *subtidal, aquatic bed, unknown submergent, excavated.*
- E1UB—Water; *subtidal, unconsolidated bottom.*
- E1UBx—Water in excavated area; *subtidal, unconsolidated bottom, excavated.*

Palustrine Environment

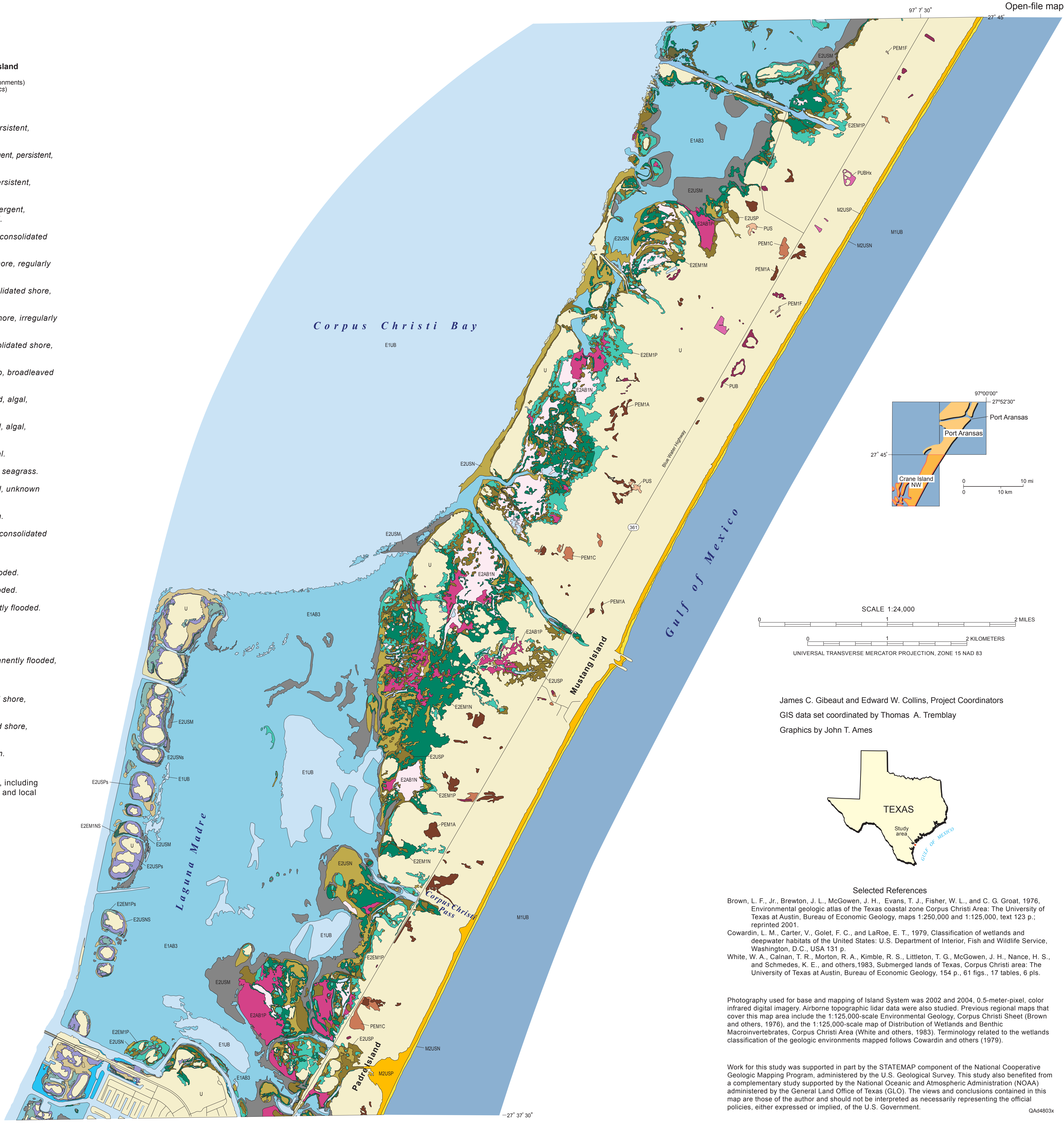
- PEM1A—*Emergent; persistent, temporarily flooded.*
- PEM1C—*Emergent; persistent, seasonally flooded.*
- PEM1F—*Emergent; persistent, semipermanently flooded.*
- PUS—Water; *unconsolidated shore.*
- PUB—Water; *unconsolidated bottom.*
- PUBHx—Water; *unconsolidated bottom, permanently flooded, excavated area.*

Marine Environment

- M2USN—Low shore; *intertidal, unconsolidated shore, regularly flooded.*
- M2USP—High shore; *intertidal, unconsolidated shore, irregularly flooded.*
- M1UB—Water; *subtidal, unconsolidated bottom.*

Uplands

- U—Upland areas; undivided nonwetland areas, including dune, backbeach, developed areas, and local dredge material.



GEOENVIRONMENTAL MAP OF SOUTHERN MUSTANG ISLAND, CRANE ISLANDS NW QUADRANGLE, TEXAS GULF OF MEXICO COAST

Thomas A. Tremblay, Rachel Waldinger, and William A. White  
2006

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- Brown, L. F., Jr., Brewton, J. L., McGowen, J. H., Evans, T. J., Fisher, W. L., and C. G. Groat, 1976, Environmental geologic atlas of the Texas coastal zone Corpus Christi Area: The University of Texas at Austin, Bureau of Economic Geology, maps 1:250,000 and 1:125,000, text 123 p.; reprinted 2001.
  - Cowardin, L. M., Carter, V., Golet, F. C., and LaRoe, E. T., 1979, Classification of wetlands and deepwater habitats of the United States: U.S. Department of Interior, Fish and Wildlife Service, Washington, D.C., USA 131 p.
  - White, W. A., Cainan, T. R., Morton, R. A., Kimble, R. S., Littleton, T. G., McGowen, J. H., Nance, H. S., and Schmides, K. E., and others, 1983, Submerged lands of Texas, Corpus Christi area: The University of Texas at Austin, Bureau of Economic Geology, 154 p., 61 figs., 17 tables, 6 pls.

Photography used for base and mapping of Island System was 2002 and 2004, 0.5-meter-pixel, color infrared digital imagery. Airborne topographic lidar data were also studied. Previous regional maps that cover this map area include the 1:125,000-scale Environmental Geology, Corpus Christi Sheet (Brown and others, 1976), and the 1:125,000-scale map of Distribution of Wetlands and Benthic Macroinvertebrates, Corpus Christi Area (White and others, 1983). Terminology related to the wetlands classification of the geologic environments mapped follows Cowardin and others (1979).

Work for this study was supported in part by the STATEMAP component of the National Cooperative Geologic Mapping Program, administered by the U.S. Geological Survey. This study also benefited from a complementary study supported by the National Oceanic and Atmospheric Administration (NOAA) administered by the General Land Office of Texas (GLO). The views and conclusions contained in this map are those of the author and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

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