BUREAU OF ECONOMIC GEOLOGY
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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

Open-file map

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.*
- E2EM1P—High marsh; *intertidal, emergent, persistent, irregularly flooded.*
- E2EM1Ps—High marsh on spoil; *intertidal, emergent, persistent, irregularly flooded, spoil.*
- E2USM—Irregularly exposed flat; *intertidal, unconsolidated shore, irregularly exposed.*
- E2USN—Low flat; *intertidal, unconsolidated shore, regularly flooded.*
- E2USP—High flat; *intertidal, unconsolidated shore, irregularly flooded.*
- E2SS3—Mangrove area; *intertidal, scrub shrub, broad-leaved 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.*
- 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

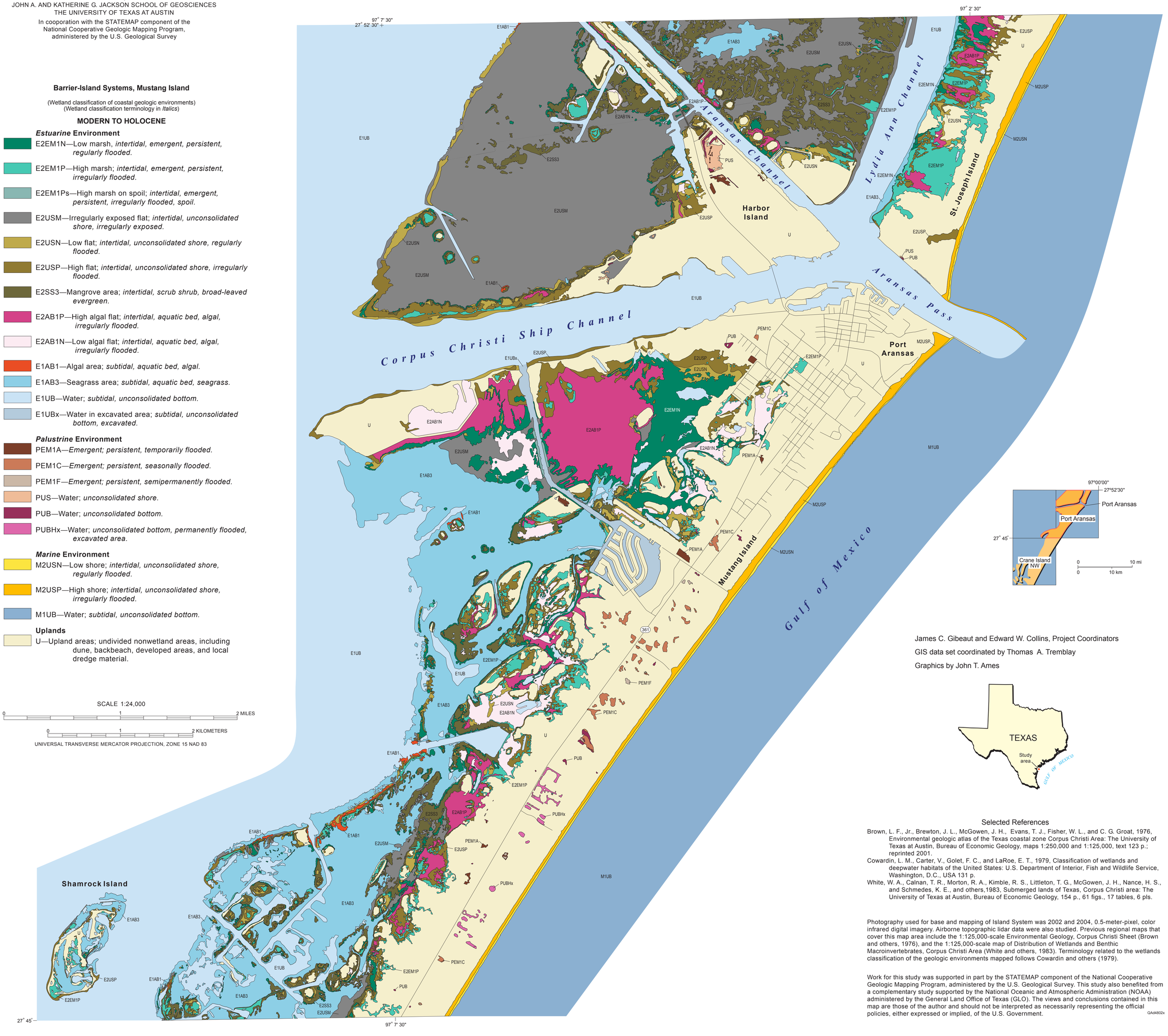
- U—Upland areas; undivided nonwetland areas, including dune, backbeach, developed areas, and local dredge material.

SCALE 1:24,000

0 1 2 MILES

0 1 2 KILOMETERS

UNIVERSAL TRANSVERSE MERCATOR PROJECTION, ZONE 15 NAD 83



James C. Gibeaut and Edward W. Collins, Project Coordinators
GIS data set coordinated by Thomas A. Tremblay
Graphics by John T. Ames

Selected References

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., Calnan, T. R., Morton, R. A., Kimble, R. S., Littleton, T. G., McGowen, J. H., Nance, H. S., and Schmedes, 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).

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GEOENVIRONMENTAL MAP OF NORTHERN MUSTANG ISLAND, PORT ARANSAS QUADRANGLE, TEXAS GULF OF MEXICO COAST

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2006