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In cooperation with the STATEMAP component of the
National Cooperative Geologic Mapping Program,
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GEOENVIRONMENTAL MAP OF THE CHRISTMAS POINT QUADRANGLE,
TEXAS GULF OF MEXICO COAST
OPEN-FILE MAP NO. 0154
2004

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**Barrier-Island Systems,
Follets, San Luis, and Mud Islands**
(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.*
- 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.*

- E1AB—Sea grass; *subtidal, aquatic bed.*
- E2RF2M—Reef; *subtidal, mollusk reef.*
- E1UB—Water; *subtidal, unconsolidated bottom.*

Palustrine Environment

- PEM1A—*Emergent; persistent, temporarily flooded.*
- PEM1C—*Emergent; persistent, seasonally flooded.*
- PUS—*Unconsolidated shore.*
- PUB—Water; *unconsolidated bottom.*
- PUBCx—Water; *unconsolidated bottom, seasonally flooded, excavated area.*
- 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, back-beach, developed areas, and local dredge material.

Fluvial-Deltaic, Marsh, Bay Systems
(Generalized unit classification)
MODERN TO HOLOCENE

- EM—Estuarine marsh; undivided high and low marsh
- TC—Tidal creek
- LPB—Levee and point bar
- AC—Abandoned channel
- BB—Beach and berm
- OR—Oyster reef

PLEISTOCENE

Beaumont Formation

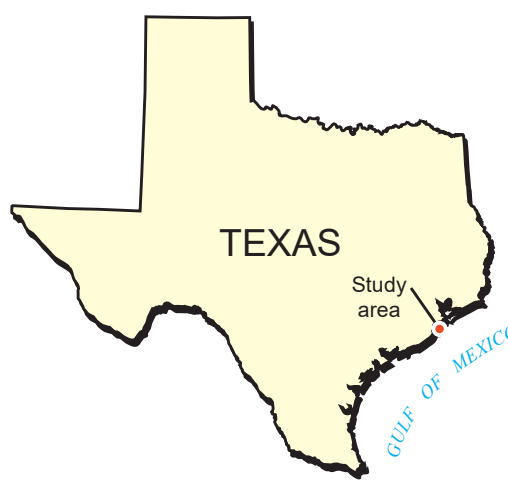
- IMC—Interdistributary mud and clay
- DCSS—Deltaic clayey sand and silt

OTHER UNITS AND SYMBOLS

- DM—Dredge material
- W—Water, undivided
-  Normal fault; U = upthrown block; D = downthrown block

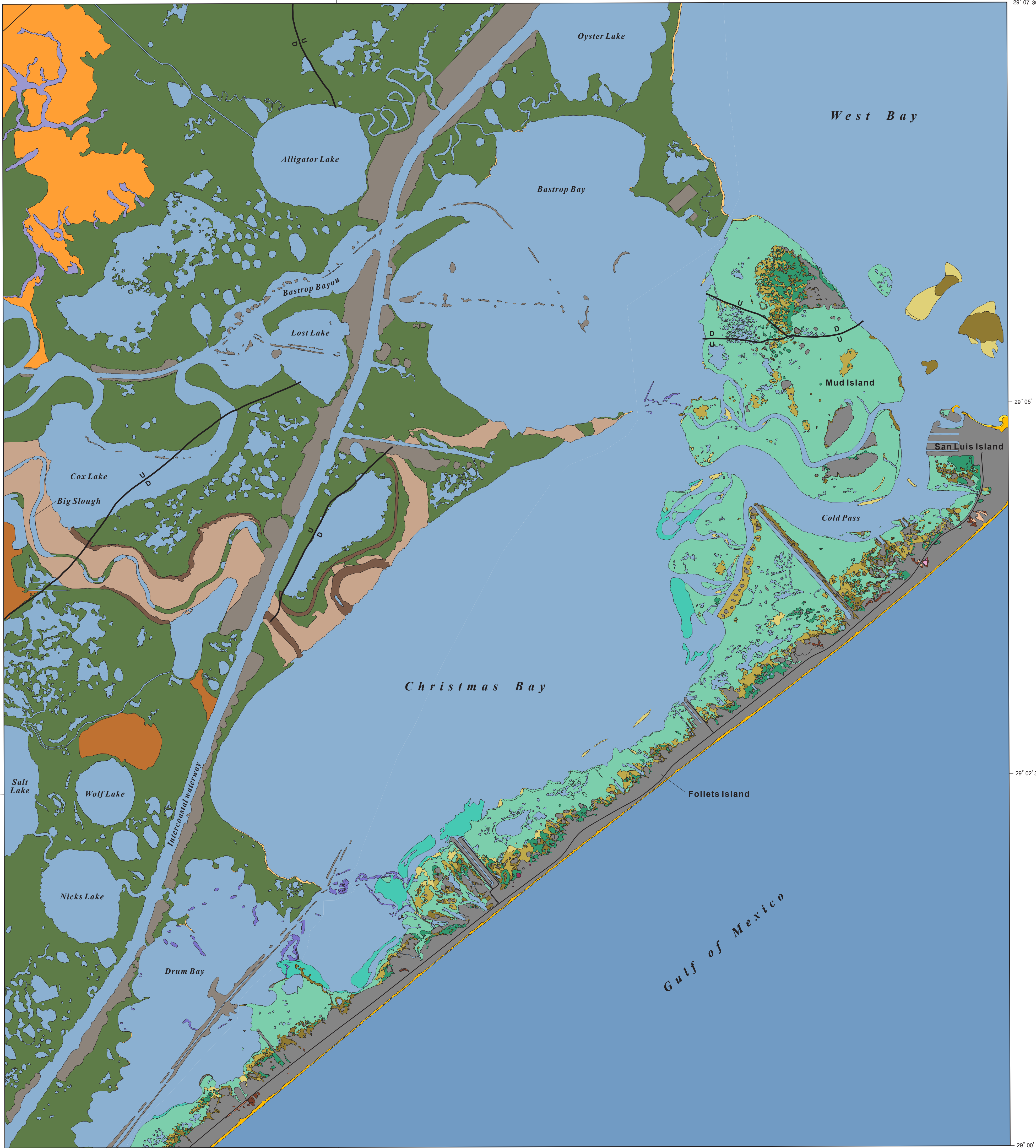
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GIS data set coordinated by Thomas A. Tremblay

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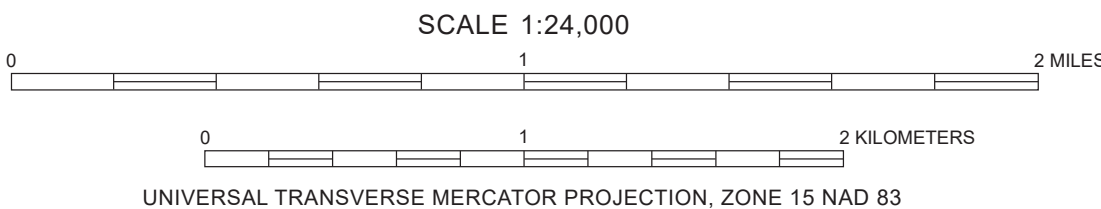


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Photography used for base and mapping of island systems was 2002, 1-meter-pixel, color-infrared digital imagery. Photography used for base and mapping of fluvial-deltaic, marsh, and bay systems was 1995–1996 color-infrared digital orthophoto quadrangle imagery. Faults were compiled from previous work of White and Morton (1997). Previous regional maps that cover this map area include the 1:125,000-scale *Environmental Geology, Galveston–Houston Sheet* (Fisher and others, 1972) and the 1:125,000-scale *Distribution of Wetlands and Benthic Macroinvertebrates, Galveston–Houston Area* (White and others, 1985). Terminology related to wetland classification of geologic environments mapped follows Cowardin and others (1979).



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