

KIM WITHERS
Department of Life Sciences
Texas A&M University -- Corpus Christi
6300 Ocean Drive
Corpus Christi, Texas 78412

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EDUCATION:

- Ph.D. 1994 Texas A&M University, College Station, Texas. Wildlife and Fisheries Sciences. Dissertation: "The Relationship of Macrobenthic Prey Availability to Shorebird Use of Blue-Green Algal Flats in the Upper Laguna Madre."
- M.S. 1989 Northern Arizona University, Flagstaff, Arizona. Quaternary Studies. Thesis: "Late Quaternary Vegetation and Climate of Forty-Mile Canyon and Willow Gulch, in the Central Colorado Plateau."
- B.S. 1985 Corpus Christi State University, Corpus Christi, Texas. Biology with Geology minor.

CURRENT POSITION

September 2014-present – Assistant Professor and BS Biology Program Coordinator, Department of Life Sciences, Research Associate, Center for Coastal Studies, Texas A&M University-Corpus Christi

- Coordinate the Bachelor's Degree Program in Biology
- Coordinated the Master's Degree Program in Biology through August 2018
- Direct and conduct research in coastal ecosystems, with emphasis on faunal dynamics of seagrasses, wind-tidal flats and mangroves and its relationship to biotic and abiotic factors.
- Write proposals for external funding.
- Direct graduate research as chair or co-chair of graduate advisory committees (50 GACs chaired).
- Support graduate programs as member of graduate advisory committees (member on 44 GACs)
- Participate in graduate programs in PENS and LSCI
- Teach undergraduate and graduate courses in biology

Courses Taught at Texas A&M University-Corpus Christi

- Current/Ongoing Teaching Assignment
 - BIOL 4444/5415/MARB 6444– Biology of Estuarine Organisms (Spring, since 1996)
 - BIOL 4446/MARB 6446 – Tropical Ecology (Fall, since 2012)
 - BIOL 3414 – Vertebrate Zoology (Fall, since 2014)
 - BIOL 4411/5411 – Animal Behavior (Spring, since 2015)
 - BIOL 4425/5425 – Ornithology (Fall, since 2015)
 - BIOL 4410/5410 – Mammalogy (Fall, since 2016)
- Past Teaching Assignments
 - Environmental Biology (2012)
 - Environmental Science Graduate Seminar (various)
 - Professional Skills for Scientists (2005-2011)
 - Issues in Environmental Science (2011)
 - Introduction to Environmental Science (numerous falls and summers)
 - Environmental Science II: Systems and Applications (numerous springs and summers)
 - Advanced Environmental Biology (2000)
 - Shorebird Ecology & Management (1998)
 - Principles of Zoology (1995-1998)

PREVIOUS POSITION:

September 2013-August 2014 – Professional Associate Professor and MS Biology Program Coordinator,
Department of Life Sciences, Texas A&M University-Corpus Christi

September 2012 – August 2013 – Professional Associate Professor and Assistant to the Chair, Department of Life
Sciences, Texas A&M University-Corpus Christi

May 1995 – August 2012. Associate Research Scientist and Technical Reports Editor, Center for Coastal Studies,
and Adjunct Professor of Biology and Environmental Science, Member of Graduate Faculty and CMSS
Ph.D. Faculty, Texas A&M University-Corpus Christi. Graduate committees: Research advisor – 30;
Member – 21.

August 1994 - May 1995 – Assistant Professor, Department of Ecology and Evolutionary Biology, University of
West Florida, Pensacola, Florida. Classes: Wetland Ecology, Ornithology, Coastal Plant Communities,
Plant Evolution and Taxonomy, Zoogeography. Graduate Committees: Chair (1).

PEER-REVIEWED PUBLICATIONS (* denotes student authors):

Harwell, M., J. Gentile, L. D. McKinney, J. W. Tunnell, Jr., J. Dennison, R. W. R. Kelsey, Stanzel, K. G. Stunz, **K. Withers**, J. Tunnell. *In Press*. Conceptual framework for assessing the ecosystem health of the Gulf of Mexico. *Integrated Environmental Assessment and Management*.

*Schoech, L., R. *R. Fern, **K. Withers**, and P. Zimba. *In Press*. Scope for growth of Texas bay scallop *Argopecten irradians amplicostatus*. *Journal of Applied Aquaculture*.

*Fern, R.R., **Withers, K.** and Schoech, L.A., 2016. Reproductive success of nesting terns on the central Texas coast. *Regional Studies in Marine Science* 8: 14-19.

Zimba, P. V., E. M. Hill, and **K. Withers**. 2016. Benthic microalgae serve as the major food resource for porcelain crabs (*Petrolisthes* spp.) in oyster reefs: digestive track content and pigment evidence. *Journal of Experimental Marine Biology and Ecology* 483: 53-58.

Baxter, A. S., E. M. Hill, and **K. Withers**. 2013 (published 2016). Texas diamondback terrapin (*Malaclemys terrapin littoralis*) in Nueces Estuary, Texas. *Texas Journal of Science* 65 (3):51-63.

Withers, K. and A. Baxter. 2015. Documentation of a Plain Chachalaca in Nueces Bay, Nueces County, Texas. *Bulletin of the Texas Ornithological Society* 48(1-2): 37-40.

*Fern, R., **K. Withers**, P. Zimba, T. Wood, and L. Schoech. 2015. Toxicity of three dispersants alone and in combination with crude oil in blue crab *Callinectes sapidus* megalopae. *Southeastern Naturalist* 14 (4): G82-G92.

*Lawrence, J. and **K. Withers**. 2015. Composition and distribution of marine debris along three jetties in Corpus Christi, Texas. *Shore and Beach* 83(4): 29-34.

*Ubias, R.R., **K. Withers**, and G. Hickman. 2013. Nesting characteristics of the Texas Seaside Sparrow (*Ammodramus maritimus sennetti*) on Mustang Island, Texas. *Southwestern Naturalist* 58:488-492.

Arias, E., H. Bonilla Reyes, E. Chávez, D. Fenner, R. Garza, R. Gomez-Lozano, M. Hardt, R. Iglesias, E. Jordán Dahlgren, M. McField, G. Paredes, R. Rodríguez-Martínez, P. Sanchez-Navarro, B. Steneck, W. Tunnell, **K. Withers**, AGRAA, CARICOMP, and Reef Check. 2013. Mexico. Pages 198-203 in J. Jackson, M. Donovan, K. Cramer, and V. Lam (eds.) *Status and Trends of Caribbean Coral Reefs: 1970-2012*. Washington, D.C.: Global Coral Reef Monitoring Network and International Union for the Conservation of Nature.

- Miller, K.S., E. M. McCarthy, M. C. Woodin, and **K. Withers**. 2013. Nest success and reproductive ecology of the Texas Botteri's Sparrow (*Peucaea botterii texana*) in exotic and native grasses. *Southeastern Naturalist* 12: 387-398.
- *McGlaun, K. and **K. Withers**. 2012. Metabolism, consumption rates, and scope for growth of porcelain crab (*Petrolithes galathinus*). *Gulf of Mexico Science* 30: 1-6.
- Williamson, E., K.B. Strychar, and **K. Withers**. 2011. Populations of the gorgonian genus *Leptogorgia* at two jetties in the northwestern Gulf of Mexico. *Gulf of Mexico Science* 29: 126-130.
- Williamson, E., K.B. Strychar, **K. Withers**, B. Sterba-Boatwright. 2011. Effects of salinity and sedimentation on the gorgonian coral, *Leptogorgia virgulata* (Lamarck 1815). *Journal of Experimental Marine Biology and Ecology* 409: 331-338.
- *Schweitzer, M. D. and **K. Withers**. 2010. Size and distribution of blue crabs (*Callinectes sapidus*) with regard to salinity in the upper Nueces Estuary, Texas. *Gulf of Mexico Science* 27: 131-134.
- *Jones, J., **K. Withers**, and J. W. Tunnell, Jr. 2010. Comparison of benthic communities on six coral reefs in the Veracruz Reef System (Mexico). Pages 757-760 in *Proceedings of the 11th International Coral Reef Symposium* (B. M. Riegl and R. E. Dodge, eds.). Nova Southeastern University and National Coral Reef Institute, Ft. Lauderdale, Florida.
- K. Withers** and M. Hubner. 2009. Distribution and abundance of bay scallops, *Argopecten irradians*, in the northwestern Gulf of Mexico (Alabama, Mississippi, Louisiana, Texas). *Marine Fisheries Review* 71(3):8-16.
- *S. R Rowell-Garvon and **K. Withers**. 2009. Shorebird behavior and habitat use in an urban wetland complex. *Southwestern Naturalist* 54: 127-139.
- *Tunnell, K. D. and **K. Withers**. 2009. Macrofauna associated with ungrounded prop roots of *Rhizophora mangle* in Veracruz and Quintana Roo, Mexico. *Gulf and Caribbean Research* 21: 67-72.
- M. Campbell, **K. Withers** and J. Tolan. 2008. Occurrence of larval and juvenile fish in mangrove habitats in the Sian Ka'an Biosphere Reserve, Quintana Roo, Mexico. *Gulf and Caribbean Research* 20: 81-86.
- *R. E Gibbons, and **K. Withers**. 2006. Habitat preferences of surface-diving waterbirds and American White Pelicans wintering in Redfish Bay, Texas. *Southwestern Naturalist* 51: 103-107.
- K. Withers** and T. S. Brooks. 2004. Diet of Double-crested Cormorants (*Phalacrocorax auritus*) wintering on the central Texas coast. *Southwestern Naturalist* 49: 48-53.
- K. Withers**. 2002. Shorebird use of coastal wetland and barrier island habitat in the Gulf of Mexico. *The Scientific World Journal* 2: 514-536
- L. J. Hyde, **K. Withers**, and J. W. Tunnell, Jr. 1999. Coastal high marsh oil spill clean-up by burning: five-year evaluation. Pages 1257-1260 in *Proceedings of the 1999 International Oil Spill Conference*. American Petroleum Institute, Washington, D.C.
- K. Withers** and B. R. Chapman. 1993. Seasonal abundance and habitat use of shorebirds on an Oso Bay mudflat, Corpus Christi, Texas. *Journal of Field Ornithology* 64:382-392.
- K. Withers** and J. I. Mead. 1993. Late Quaternary vegetation and climate in the Escalante River basin, on the central Colorado Plateau. *Great Basin Naturalist* 53:145-161.

BOOK CHAPTERS:

- Withers, K.** *In Press*. Red Knot. In: B. R. Chapman and W. I. Lutterschmidt (eds.), *Texans on the brink: The state's threatened and endangered fauna*. College Station: Texas A&M Press.
- Withers, K.** *In Press*. Piping Plover. In: B. R. Chapman and W. I. Lutterschmidt (eds.), *Texans on the brink: The state's threatened and endangered fauna*. College Station: Texas A&M Press.
- Withers, K.** *In Press*. Prairie Chickens. In: B. R. Chapman and W. I. Lutterschmidt (eds.), *Texans on the brink: The state's threatened and endangered fauna*. College Station: Texas A&M Press.
- †Tweedley, J. R., S. R. Dittmann†, A. K. Whitfield†, **K. Withers**†, S. D. Hoeksema, and I. C. Potter. 2019. Hypersalinity: global distribution, causes, and effects on the biota of estuaries and lagoons. Pages 523-541 *in* E. Wolanski, J. Day, M. Elliott, and R. Ramachandran (eds.), *Coasts and Estuaries – The Future*. Elsevier. (†These authors made an equal contribution)
- Smith, E. H., A. Banda, J. W. Tunnell, Jr., and **K. Withers**. 2013. Ecosystem-based management in the Laguna Madre, western Gulf of Mexico. Pages 131-152 *in* J. Day and A. Yáñez-Arancibia (eds.), *Ecosystem-based Management, Gulf of Mexico: Origin, Waters, and Biota*, vol. 4, Texas A&M University Press, College Station, Texas.
- K. Withers**. 2010. Shells in Texas Coastal History. Pages 5-13 *in* J. W. Tunnell, Jr., J. Andrews, N. Barrera, and F. Moretzsohn, *Encyclopedia of Texas Seashells: Identification, Distribution, Ecology and History*. Texas A&M Press, College Station, Texas.
- K. Withers** and J. W. Tunnell, Jr. 2007. Reef biodiversity. Pages 68-86 *in* J. W. Tunnell, Jr., E. Chávez and **K. Withers** (eds.), *Coral Reefs of the Southern Gulf of Mexico*. Texas A&M Press, College Station, Texas.
- E. Chávez, J. W. Tunnell, Jr. and **K. Withers**. 2007. Coral reef zonation and ecology: Veracruz shelf and Campeche Bank. Pages 41-67 *in* J. W. Tunnell, Jr., E. Chávez and **K. Withers** (eds.), *Coral Reefs of the Southern Gulf of Mexico*. Texas A&M Press, College Station, Texas.
- K. Withers**. 2002. Seagrass meadows. Pages 85-101 *in* J. W. Tunnell, Jr. and F. W. Judd (eds.), *The Laguna Madre of Texas and Tamaulipas*. Texas A&M Press, College Station, Texas.
- K. Withers**. 2002. Open bay. Pages 102-113 *in* J. W. Tunnell, Jr. and F. W. Judd (eds.), *The Laguna Madre of Texas and Tamaulipas*. Texas A&M Press, College Station, Texas.
- K. Withers**. 2002. Wind-tidal flats. Pages 114-126 *in* J. W. Tunnell, Jr. and F. W. Judd (eds.), *The Laguna Madre of Texas and Tamaulipas*. Texas A&M Press, College Station, Texas.
- K. Withers**. 2002. Shorebirds and wading birds. Pages 198-210 *in* J. W. Tunnell, Jr. and F. W. Judd (eds.), *The Laguna Madre of Texas and Tamaulipas*. Texas A&M Press, College Station, Texas.
- K. Withers** and S. J. Dilworth. 2002. Fish and invertebrate fisheries organisms. Pages 223-254 *in* J. W. Tunnell, Jr. and F. W. Judd (eds.), *The Laguna Madre of Texas and Tamaulipas*. Texas A&M Press, College Station, Texas.
- K. Withers**. 2002. Brown and red tide. Pages 255-258 *in* J. W. Tunnell, Jr. and F. W. Judd (eds.), *The Laguna Madre of Texas and Tamaulipas*. Texas A&M Press, College Station, Texas.
- J. W. Tunnell, Jr., **K. Withers** and E. H. Smith. 2002. Conservation issues and recommendations. Pages 275-288 *in* J. W. Tunnell, Jr. and F. W. Judd (eds.), *The Laguna Madre of Texas and Tamaulipas*. Texas A&M Press, College Station, Texas.

K. Withers. 1996. Seagrass meadows. Pages 175-249 *in* Tunnell, J. W., Jr., Q. R. Dokken, E. H. Smith, and K. Withers (eds.) Status and Trends of the Estuarine Living Resources Within the Corpus Christi Bay National Estuary Program Study Area. CCBNEP-06A. Corpus Christi, Texas.

K. Withers. 1996. Tidal flats. Pages 294-356 *in* Tunnell, J. W., Jr., Q. R. Dokken, E. H. Smith, and K. Withers (eds.) Status and Trends of the Estuarine Living Resources Within the Corpus Christi Bay National Estuary Program Study Area. CCBNEP-06A. Corpus Christi, Texas.

TECHNICAL REPORTS:

McKinney, L., M. Besonen, and **K. Withers** (eds.). 2018. Proceedings: The Gulf of Mexico Workshop on International Research. Bureau of Ocean Energy Management (BOEM), OCS Study, BOEM 2018-xxx).

Besonen, M. R., **K. Withers**, and G. Gold-Bouchot. 2018. The GOMWIR (Gulf of Mexico Workshop on International Research) inventory. Pages 162-179 *in* L. McKinney, M. Besonen, and **K. Withers** (eds.). 2018. Proceedings: The Gulf of Mexico Workshop on International Research. Bureau of Ocean Energy Management (BOEM), OCS Study, BOEM 2018-xxx).

Withers, K., M. R. Besonen, and G. Gold-Bouchot. 2018. Knowledge gaps identification. Pages 189-197 *in* L. McKinney, M. Besonen, and **K. Withers** (eds.). 2018. Proceedings: The Gulf of Mexico Workshop on International Research. Bureau of Ocean Energy Management (BOEM), OCS Study, BOEM 2018-xxx)

Lewis, M. **K. Withers**, P. V. Zimba, and T. Wood. 2017. Reduction of dispersed oil toxicity through the synergistic application of hydrocarbon digesting microbial solutions: final report. Texas A&M University-Corpus Christi, Center for Coastal Studies Tech. Rept. TAMUCC-1801-CCS. 22 pp.

Withers, K. 2016. Macrobenthic invertebrate abundance and community structure in coastal intertidal habitats of selected US Fish & Wildlife Service refuges in Texas: final report of the baseline survey. Texas A&M University-Corpus Christi, Center for Coastal Studies Tech. Rept. TAMUCC-CC-1701-CCS. 50 pp.

Withers, K. 2016. Data summary—tidal stream macrobenthos identification/enumeration: Arroyo Colorado final report. Texas A&M University-Corpus Christi, Center for Coastal Studies Tech Rept. TAMUCC-1602-CCS. 4 pp.

Simons, J. D., **K. Withers**, and T. Weatherall. 2015. Assessment of mercury in selected game fish food webs in the Texas coastal zone: final report. Texas A&M University-Corpus Christi, Center for Coastal Studies Tech Rept. TAMUCC-1501-CCS. 96 pp. (A report funded by a Texas Coastal Management Program grant approved by the Texas Land Commissioner pursuant to National Oceanic and Atmospheric Administration award No. NA12NOS4190164.

Withers, K. 2014. Spatial and temporal abundance of non-breeding piping plovers within designated critical habitat associated with Naval Air Station-Corpus Christi (Texas Units 11 and 12). Texas A&M University – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMUCC-1403-CCS. 20 pp.

Withers, K. and J. Staggs. 2008. Data summary: benthic invertebrates, Texas Coastal Assessment 2007. Texas A&M University – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMUCC-0803. Corpus Christi, Texas. 36 pp.

Withers, K. and J. Staggs. 2008. Data summary: benthic invertebrates, NCA 2006 – Texas. Texas A&M University – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMUCC-0804. Corpus Christi, Texas. 35 pp.

Withers, K. and J. Staggs. 2008. Data summary: benthic invertebrates, NCA 2005 – Texas. Texas A&M University – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMUCC-0805. Corpus Christi, Texas. 39 pp.

- Withers, K.** and S. Lyle. 2007. Post-construction seagrass monitoring, John F. Kennedy Causeway: year 3 and summary. Texas A&M University-Corpus Christi, Center for Coastal Studies Tech. Rept. TAMU-CC-0704-CCS. 30 pp.
- Withers, K.** and S. Lyle. 2006. Post-construction seagrass monitoring, John F. Kennedy Causeway year 2: July 2006. Texas A&M University-Corpus Christi, Center for Coastal Studies Tech. Rept. TAMU-CC-0605-CCS. 26 pp.
- Withers, K.** and G. Jeffress. 2005. Post-construction seagrass monitoring, John F. Kennedy Causeway year 1: June 2005. Texas A&M University-Corpus Christi, Center for Coastal Studies Tech. Rept. TAMU-CC-0505-CCS. 18 pp.
- Withers, K.** and J. W. Tunnell, Jr. 2004. Data summary: benthic invertebrates, NCA 2003. Texas A&M University-Corpus Christi, Center for Coastal Studies Technical Report. Corpus Christi, Texas. 28 pp.
- Withers, K.**, E. H. Smith, O. Gomez, and J. Wood. 2004. Assessment of coastal water resources and watershed conditions at Padre Island National Seashore. US Department of Interior, National Park Service, Water Resources Division Technical Report NPS/NRWRD/NRTR-2004/323. Denver, Colorado. 126 pp.
- Q. R. Dokken, I. R. MacDonald, J. W. Tunnell, Jr., T. Wade, **K. Withers**, S. J. Dilworth, T. W. Bates, C. R. Beaver, and C. M. Rigaud. 2003. Long-term monitoring at the East and West Flower Garden Banks National Marine Sanctuary, 1998-2001: Final Report. US Department of Interior, Mineral Management Service, Gulf of Mexico OCS Region, OCS Study MMS 2003-031. New Orleans, Louisiana. 90 pp.
- K. Withers.** 2003. Data summary: benthic invertebrates, NCA 2002 - Texas. Texas A&M University – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMUCC-0308-CCS . Corpus Christi, Texas. 30 pp.
- K. Withers.** 2003. Data summary: benthic invertebrates, NCA 2001 - Texas. Texas A&M University – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMUCC-0304-CCS . Corpus Christi, Texas. 46 pp.
- J. W. Tunnell, Jr., N. Hilbun and **K. Withers.** 2002. Comprehensive bibliography of the Laguna Madre of Texas and Tamaulipas. . Texas A&M University – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMUCC-0202-CCS . Corpus Christi, Texas. 120 pp.
- K. Withers.** 2001. Data summary: benthic invertebrates, Coastal 2000. Texas A&M University – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMUCC-0104-CCS . Corpus Christi, Texas. 31 pp.
- Q. R. Dokken, I. R. MacDonald, J. W. Tunnell, Jr., T. Wade, C. R. Beaver, S. A. Childs, **K. Withers** and T. W. Bates. 2001. Long-term monitoring at the East and West Flower Garden Banks, 1998-1999. OCS Study, MMS 2001-101. US Department of the Interior, Gulf of Mexico OCS Region, New Orleans, Louisiana. 119 pp.
- Q. R. Dokken, **K. Withers**, S. Childs and T. Riggs. 2000. Characterization and comparison of platform reef communities off the Texas Coast. Texas A&M University – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMUCC-0007-CCS. Corpus Christi, Texas. 53 pp.
- K. Withers.** 2000. Instructions for authors: Center for Coastal Studies technical reports. 30 pp.
- K. Withers** and J. W. Tunnell, Jr. 1998. Identification of tidal flat alterations and determination of effects on biological productivity of these habitats within the Coastal Bend. CCBNEP-26. Corpus Christi, Texas. 171+ pages.

- Hyde, L. J., **K. Withers**, and J. W. Tunnell, Jr. 1998. Coastal high marsh oil spill clean-up by burning: five-year evaluation. Texas A&M Univ. – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMU-CC-9811-CCS. Corpus Christi, Texas. 50 pages.
- Withers, K.** 1998. Biological productivity of southerly wind-tidal flats within Padre Island National Seashore. Texas A&M Univ. – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMU-CC-9810-CCS. Corpus Christi, Texas. 46 pages.
- Withers, K.** and E. H. Smith. 1998. A comparison of benthic and nektonic communities in created and natural salt marshes, Mesquite-Ayres Bay, Texas. Texas A&M Univ. – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMU-CC-9809-CCS. Corpus Christi, Texas. 39 pages.
- Engelhard, T. K. and **K. Withers.** 1997. Biological effects of mechanical beach raking in the upper intertidal zone on Padre Island National Seashore, Texas. Texas A&M Univ. – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMU-CC-9706-CCS. Corpus Christi, Texas. 41 pages.
- J. W. Tunnell, Jr., **K Withers**, and B. Hardegree. 1997. Environmental impact and recovery of the Exxon pipeline oil spill and burn site, upper Copano Bay, Texas: final report. Texas A&M Univ. – Corpus Christi, Center for Coastal Studies Tech. Rept. TAMU-CC-9703-CCS. Corpus Christi, Texas. 81 pages.
- Withers, K.** 1996. An evaluation of recovery of benthic invertebrate communities in vehicle tracks and restored oil and gas impacted areas on wind-tidal flats in the upper Laguna Madre, Padre Island National Seashore, Texas. Padre Island National Seashore Contract 144PX749050162. Corpus Christi, Texas. 12 pages.
- E. H. Smith, **K. Withers**, and K. Jenkins. 1995. Evaluation of beach management methodologies and their effects on natural resources of barrier islands. Texas A&M Univ. - Corpus Christi Center for Coastal Studies Tech. Rept. TAMU-CC-9506-CCS. Corpus Christi, Texas. 120 pages.
- Tunnell, J. W., Jr., B. Hardegree, **K. Withers**, and D. Hicks. 1995. Environmental impact and recovery of the Exxon pipeline oil spill and burn site, upper Copano Bay, Texas: Year 2. Texas A&M Univ.-Corpus Christi Center for Coastal Studies Tech. Rept. TAMU-CC-9501-CCS. Corpus Christi, Texas. 42 pages.

PUBLISHED ABSTRACTS

- *Schoech, L. and **K. Withers.** 2014. Scope for growth of Texas bay scallop (*Argopecten irradians amplicostatus*). Page 651 in Abstracts of Technical Papers Presented at the 106th Annual Meeting of the National Shellfisheries Association, Jacksonville, Florida March 29-April 2, 2014. Journal of Shellfish Research 33: 567-667.
- *Gain, J. and **K. Withers.** 2010. Prevalence of *Hematodinium* in *Callinectes sapidus* in Corpus Christi and Aransas bay systems. In: 9th Annual Sea Grant Research Conference. TAMU-SG-10-113. College Station, TX. p. 13-14
- *Engelhard, T. and **K. Withers.** 1999. Biological effects of mechanical beach raking in the upper intertidal zone on Padre Island National Seashore, Texas. Gulf Research Reports 10:73-74.

BOOKS EDITED:

- Tunnell, J. W. F. W. Judd, and **K. Withers.** *In prep.* The Laguna Madre of Texas and Tamaulipas, 2nd ed. Texas A&M University Press.
- K. Withers** and M. Nipper. 2008. Environmental Analysis of the Gulf of Mexico (English translation of Diagnostico Ambiental del Golfo de México, edited by Margarita Caso, Irene Pisanty, and Exequiel

Ezcurra [in Spanish]). Texas A&M University – Corpus Christi, Harte Research Institute of Gulf of Mexico Studies Special Publication 1.

J. W. Tunnell, Jr., E. Chávez and **K. Withers**. 2007. Coral Reefs of the Southern Gulf of Mexico. Texas A&M University Press

J. W. Tunnell, Jr., Q. R. Dokken, E. Smith and **K. Withers**. 1996. Status and Trends of the Estuarine Living Resources within the Corpus Christi Bay National Estuary Program Study Area. CCBNEP-06A. Corpus Christi, Texas.

BOOK REVIEWS

K. Withers. 2007. Review “Pelicans, Cormorants, and Their Relatives: Pelecanidae, Sulidae, Phalacrocoracidae, Anhingidae, Fregatidae, Phaethontidae,” by J B Nelson. Quarterly Review of Biology 82:287-288

GRANTS AND AWARDS:

Federal

BOEM, 2015-2018, \$250,000 (project total with match = \$360,000). “Gulf of Mexico – Workshop on International Research.” PI – Larry McKinney, with 6 Co-PI’s (my part = ~\$30,000).

USACOE, 2013-2014, \$24,000. “Baseline survey of Piping Plover at NAS Corpus Christi.”

USFWS, 2012-2016, \$60,000. “Establishing a Macrobenthic Invertebrate Baseline for the Texas Coastal Wildlife Refuge Complex.

USFWS, 2011-2013, \$35,000. “Establishing a Macrobenthic Invertebrate Baseline for the Texas Coastal Wildlife Refuge Complex.

National Park Service, 2010-2013, 50,000. “Effects of Vehicle Disturbance on Shorebirds.”

National Park Service, 2009-2011, \$21,670. “Beach Invertebrate Responses to Disturbance.”

USEPA Gulf of Mexico Program, 2008-2009, \$59,000 (subcontract). “System-Level Monitoring of Bahia Grande Restoration”. With David W. Hicks (University of Texas-Brownsville).

USEPA Gulf of Mexico Program, 2007-2008, \$55,000 (subcontract). “System-Level Monitoring of Bahia Grande Restoration”. With David W. Hicks (University of Texas-Brownsville).

National Park Service (Cooperative Ecosystems Study Unit), 2004, \$47,000. “Water Resources Assessment, Padre Island National Seashore. With Elizabeth H. Smith

Padre Island National Seashore, 1997, \$10,000. “Biological Effects of Mechanical Beach Raking”. Contract 1443PX749070058.

Padre Island National Seashore, 1997, \$10,000. “Biological Productivity of Southerly Wind-Tidal Flats. Contract 144PX7305097163.

State

Texas General Land Office, 2016-2017, \$80,441. “Reduction of dispersed oil toxicity through synergistic application of hydrocarbon digesting microbial solutions.” Co-PI with Tony Wood and Paul Zimba.

Texas Parks and Wildlife Department, 2014-2016, \$27,000. “Tidal Stream Invertebrates – Arroyo Colorado.”

Texas Commission on Environmental Quality Commissioners, 2012-2013, \$26,000 (my part; ~\$100,000 total). “Biological resources in Texas and Potential Harm from Deepwater Horizon.

Texas SeaGrant, 2012. \$154, 420. “The toxin(s) of the Texas Brown Tide Organism *Aureoumbra lagunensis* and its Impact on Shellfish. With Paul Zimba

Texas Coastal Management Program, 2012-2015. \$80,098. Assessment of Mercury in Selected Game Fish Food Webs in the Texas Coastal Zone. With Jim Simons.

Texas Seagrant, 2009. \$10,000. “Infection of Blue Crabs by *Hematodinium* in Corpus Christi and Aransas Bays”

Texas Parks and Wildlife Department, 2008-2009. \$27,000. “Tidal Stream Invertebrates”

Texas Parks and Wildlife Department, 2008. \$115,000. “Texas Coastal Assessment – Field and Laboratory Support”

Texas Parks and Wildlife Department, 2007. \$18,000. “National Coastal Assessment – Analysis of Benthic Invertebrates”

Texas Parks and Wildlife Department, 2006. \$17,800. “National Coastal Assessment – Analysis of Benthic Invertebrates”

Texas Parks and Wildlife Department, 2005. \$16,250. “National Coastal Assessment – Analysis of Benthic Invertebrates” (EPA pass through money)

Texas Department of Transportation, 2005-2007. \$66,000 (total). “Seagrass Monitoring of the JFK Kennedy Causeway Project (Post-construction)”. With Gary Jeffress.

Texas Parks and Wildlife Department, 2003, 2004. \$70,000 (total). “Stream Assessment – Analysis of Benthic Invertebrates and Aquatic Insects”.

Texas Parks and Wildlife Department, 2000, 2001, 2002, 2003, 2004. \$30,000 per year. “National Coastal Assessment – Analysis of Benthic Invertebrates” (EPA pass through money)

Texas Parks and Wildlife Department, 1991-93 – \$24,000 for dissertation research, "The Relationship of Macrobenthic Prey Availability to Shorebird Use of Blue-green Algal Flats in the Upper Laguna Madre.

Non-Governmental Organization

Coastal Bend Bays and Estuary Program, 2006. \$10,000. “Breeding Ecology of Black Skimmers on New Island”.

Coastal Bend Bays and Estuary Program, 2005. \$10,000. “Breeding Ecology of Black Skimmers on New Island”.

Coastal Bend Bays and Estuaries Program, 2004, \$10,000. “Coastwide Snowy Plover Breeding Survey” (TPWD pass through money).

Coastal Bend Bays and Estuaries Program, 2000, \$50,000. “Mollie Beattie Coastal Habitat Community: Public Education & Access Infrastructure”. With Suzanne Dilworth.

Coastal Bend Bays and Estuaries Program, 2000, \$50,000. “Bay and Bait Shrimping Industries of the Coastal Bend: Status, Challenges, and Management”. With Quenton R. Dokken.

Corpus Christi Bay National Estuary Program, 1996, \$40,000. “Natural and Human-Related Alterations of Wind-Tidal Flats in the Corpus Christi Bay National Estuary Program Study Area and Their Effects on Biological Productivity and Functioning”.

University

TAMU-CC, Texas Excellence Program, 2005. \$7000. Enhancement of federal funding opportunities.

University of West Florida Small Grants Program, 1995. \$1998.00. Summer research project “Abundance and Community Structure of Macrobenthic Invertebrates Inhabiting Nearshore and Rear Reef Areas, Southern Quintana Roo, Mexico”.

Foundation

Welder Wildlife Foundation Fellowship, 1992-93 – \$10,000 for dissertation research, “The Relationship of Macrobenthic Prey Availability to Shorebird Use of Blue-green Algal Flats in the Upper Laguna Madre.”

SERVICE:

University Committees/Service

Faculty Senate – elected 2016

Member, Faculty Affairs Committee, 2016–present

Member, Academic Affairs Committee, 2018–present

Ex officio – CPIRA, 2017-2018

Ex officio – University Parking Committee – 2018-present

Scholarship Committee – 2016–2017

College (COSE) Committees/Service

Center for Coastal Studies Scholarship Selection Committee – 2004-present (K. Withers, Chair)

Integrated Science BS (was General Science) Development Committee – 2011- present

Search Committee – Conservation Biologist – 2019

Search Committee – Coastal Botanist – 2018

Curriculum Committee – 2016 – 2017

Search Committee – Visiting Anatomist – 2017

Search Committee – LSCI Department Chair – 2015

Search Committee – Coastal Botanist – 2015

Search Committee – Fisheries Biodiversity – 2012

MARB Policy Committee- 2010 – 2013

CMSS Policy Committee – 2007-2014

CMSS Ph.D. Handbook Committee – 2005 (K. Cammarata, Chair)

CMSS Library Committee – 2005-2014

Departmental (LSCI) Committees/Service

LSCI Graduate Committee – 2010-2013 (Chair, disbanded)

S&E Field Trip Committee – 2008- 2013 (disbanded)

Catalog Copy Coordinator (PALS) – 2004, 2005, 2006

Other Committees/Service within the University

Technical Writing Committee (English Department) – 2002

National Committees/Panels

National Science Foundation Graduate Fellowship Review Panel – Ecology, 2004, 2005, 2006

GRADUATE COMMITTEES:

Chair – Biology, University of West Florida

Lara Coburn – 1995, “Reproductive Success of Black Skimmers in Florida”

Member – Biology, University of Louisville

Kyle Anderson – 2015, “No Effect of Hydrocarbon and Salinity Disturbance on Marine Meiofauna Diversity and Community Structure”

Member – Marine Science, University of Southern Alabama

Meredith Diskin – “bottom up effects in mixed cordgrass/mangrove marshes and climate change”

Co-Chair or Chair – Biology, TAMUCC

Graduates

1. **Ariana Kavandi** – 2018, “Diets of offshore fish collected during the ‘Texas Fish Gut Roundup’” (professional paper)
2. **Meghan Cordero** – 2018, “Righting behavior in green and brown anoles (professional paper)
3. **Martin Donnelly** – 2018, “Shark scales and swimming speed”
4. **Amy Cuvelier** – 2017, “Dr. Henry H. Hildebrand: Understanding his Papers...” (professional paper)
5. **Tyler Macha** – 2017, “Education and outreach – plastic pollution” (professional paper)
6. **Elizabeth Ahern** – 2016, “Morphometrics of sea robins” (professional paper)
7. **Wesley Franks** – 2015, “Biofouling communities in upper Laguna Madre” (professional paper)
8. **Debra Hoekel** – 2014, “Evaluation of selected physiological parameters in *Scolecopsis squamata* and *Emerita talpoida* for use in determination of sublethal effects associated with environmental stressors”
9. **Ariane Frappier** – 2014, “Fish communities: evaluating response to natural and anthropogenic disturbances under different management regimes”
10. **Lee Schoech** – 2013 “Scope for growth of two ecologically important bivalves: bay scallop (*Argopecten irradians amplicostatus*) and cross-barred venus (*Chione elevata*)”
11. **Jon Gain** – 2011 “Prevalence of *Hematodinium* in the blue crab (*Callinectes sapidus*) in the Corpus Christi and Aransas Bay systems, Texas, U.S.A.”
12. **Kim McGlaun** – 2011 “Metabolism and feeding behavior of porcelain crab (*Petrolisthes galathinus*) and their potential role within oyster reefs”
13. **Amanda Ruddy** – 2009 “Comparison of biodiversity in burned vs unburned habitats on NAS Kingsville”
14. **Isis Dominguez** – 2009 “Oyster trophic relationships”
15. **Jason Jones** – 2008, “Coral cover on selected Veracruz Reefs”
16. **Heather Butler** – 2008, “Coral monitoring at Sian Ka’an, 2006 and 2007” (non thesis)
17. **Mollie McIver** – 2008, “Black mangrove community characterization”
18. **Matt Schweitzer** – 2008, “Blue crab and sex-ratios in Nueces River”
19. **Heidi Cyr** – 2007, “Wading bird habitat use and behavior at Indian Point”
20. **Kristie Landaberde** – 2007; “Black skimmer nesting ecology on New Island, Nueces Bay”
21. **Judy Metcalf** – 2007, “Does disturbance affect shorebird behavior?”
22. **Matt Hubner** – 2007, “Bay scallop recruitment in Laguna Madre”
23. **Jeffrey Landgraf** – 2005, “Distribution of larval fish in Laguna Madre”
24. **Jason Zeplin** – 2005, “Effects of Seagrass Scarring on Juvenile Fish in Redfish Bay”
25. **Maren Harding** – 2004, “Seasonal abundance & habitat use of shorebirds in Blind Oso”
26. **Shannon Garvon** – 2004, “Seasonal abundance & habitat use of shorebirds at Sunset Lake”
27. **Amy Thurkill** – 2004, “Effects of adjacent land use on seagrasses in upper Laguna Madre”
28. **Richard Gibbons** – 2003, “Abundance and habitat preferences of wintering waterbirds in Redfish Bay” (professional paper)
29. **Jennifer Pearce** – 2003, “Relationship of seagrasses to benthic community structure, upper Laguna Madre & Baffin Bay, Texas”

30. **Jennifer Davidson** – 2002, “Effects of propeller scarring on molluscan community structure in seagrass Meadows of Redfish Bay, Texas”
31. **Matt Campbell** – 2001, “A dry season analysis of larval and juvenile assemblages of the Sian Ka’an Biosphere Reserve, Quintana Roo, Mexico”
32. **Kathryn Harvey-Tunnell** – 2001, “Epibiont flora and fauna associated with prop roots of two *Rhizophora mangle* forests, Vera Cruz and Quintana Roo, Mexico”
33. **Jace Tunnell** – 2001, “Differential use of seagrass habitats by juvenile fish”
34. **Teresa Barrera-Carrillo** – 2000, “Abundance & habitat use of birds in Blind Oso”
35. **Tammy White** – 2000, “Snowy plover breeding at Sunset Lake” (professional paper).
36. **Amy Koltermann** – 2000, “Ecological characterization of northwestern Caribbean ironshores, Quintana Roo, Mexico”
37. **Lucinda Sohn** – 1999, “Predator and prey relationship between *Perna perna* and *Stramonita haemastoma*”
38. **Tannika Engelhard** – 1998, “Biological effects of mechanical beach raking in the upper intertidal zone of Padre Island National Seashore, Texas”

In Progress

Shantel Sweirc “Diamondback terrapin genetics”

Marina Partain – decomposition in mangroves

Danielle DeVacque – disturbance effects on shorebirds

Arras Wiedorn – turkey vulture roosts

Member - Biology

Graduates

1. **Andrew Scerbo** – 2018, “Tracheal morphology of deer and bottlenose dolphin”
2. **Jacob Loveless** – 2017, “Insect communities in mixed mangrove/cordgrass marshes”
3. **Meredith Diskin** – 2016, “Comparison of faunal communities in mixed mangrove marshes and saltmarshes
4. **James Sanchez** – 2015 “ Macrobenthic and nektonic communities of mixed mangrove/marsh communities”
5. **I-Shou Huang** – 2014 “Brown tide toxins and their toxicological effects”
6. **Alex Rafalski** – 2012, “Evaluation of brevetoxin accumulation and degradation in coastal mammals, birds, and fish found moribund on Texas beaches during red tide blooms”
7. **Valerie Chilton** – 2011, “Unique assemblages of bacteria in *Halodule beaudettei* epiphytic biofilms from Corpus Christi Bay and the Upper Laguna Madre”
8. **Jennifer Sweatman** – 2010, “Accumulation of epiphytes on *Halodule wrightii* in response to nutrient enrichment in East Flats, Corpus Christi Bay and Nighthawk Bay, upper Laguna Madre, Texas”
9. **Emily Williamson** – 2008, “Soft corals on the Texas Coast”
10. **Katherine Miller** – 2006, “Nesting ecology of Botteri’s Sparrow
11. **Leslie Smith** – 2005, “Bird use of Oso Creek wetlands”
12. **Krista Storey** – 2005, “Seagrass genetics”
13. **Maria Brayfield** – 2004, “Byssal threads of *Perna perna* and *Perna viridis*”
14. **Dana Burfeind** – 2004, “Effects of seagrass scarring on juvenile fish communities”
15. **Addie Reid** – 2004, “Implementation of a long-term coral reef monitoring plan, Sian Ka’an Biosphere Reserve, Quintana Roo, Mexico”
16. **Chris Ledford** – 2003, “Comparison of Coral Species Diversity and Abundance Between Patch Reefs and Shallow Reefs of the Sian Ka’an Biosphere Reserve, Quintana Roo, Mexico”
17. **Tom Bates** – 2002, “Locomotory behavior of intertidal molluscs on rocky shores of the Sian Ka’an Biosphere Reserve, Quintana Roo, Mexico”
18. **W. Jay Tarkington** – 2002, “Kayaking guide to Aransas Bay” (professional paper)

19. **Traci Darnell** – 1998, “The influence of landscape features on bird use of marsh habitat created for whooping cranes (*Grus americana*) through beneficial use of dredged material”

In Progress

Jennifer Whitt – “Benthic community composition in a watershed”

Chair/CoChair – Environmental Science

Graduates

1. **Blake Bosch** – 2018, “Distribution of microplastics in soil and water in the Coastal Bend” (professional paper)
2. **Michael Lewis** – 2018 “Synergistic effects of dispersants and microbial remediation solutions on grass shrimp”
3. **Kristin Livingston** – 2016, “Rapid Assessment Method for Beach Dune Restoration Projects” (professional paper)
4. **Jennifer Klidies** – 2014, “Distribution and relationship of drift macroalgae & seagrass in the upper Laguna Madre, Texas” (professional paper)
5. **Kelly Breiden** – 2014, “Creating a rapid assessment method for compensatory mitigation on the Texas coast” (professional paper)
6. **Jennifer Lawrence** – 2014, “Composition and distribution of marine debris along three jetties in Corpus Christi, Texas (professional paper)
7. **Jose Torres** – 2013 “Compiling a compensatory mitigation project database/GIS” (professional paper)
8. **Frank McDaniel** – 2011 “Wintering shorebirds in Blind Oso (professional paper)
9. **Ryan Ubias** – 2010 “Nest Architecture of Texas Seaside Sparrow” (professional paper)
10. **Jackie Staggs** – 2008 “Trophic Status of Laguna Madre”
11. **Michelle Kolar** – 2005, “Breeding Ecology of Snowy Plovers”
12. **Alex Nunez** – 2004, “A Characterization of the Benthic Macroinvertebrate Communities in the Mission-Aransas and Nueces Estuaries”
13. **Kim Halbrook** – 2003, “Population estimate of Texas Diamondback Terrapin (*Malaclemys terrapin littoralis*) in Nueces Estuary and Assessment of Nesting Habitat Suitability”

In Progress

Logan Anderson – “feral cat communities and effects on avian faunas”

Member – Environmental Science

Graduates

1. **Ben Lawson** – 2016, “Quantifying productivity in various compartments in saltmarshes”
2. **Maria Rodriguez** – 2015, “Incidence of Dermo in Copano Bay oysters” (professional paper)
3. **Michael Rittenhouse** – 2015, “*Sargassum* effects on dune sedimentation processes”
4. **David Franklin** – 2014, “Current and potential impacts of global warming & ocean acidification on mollusks & polychaetes (professional paper)
5. **Sara Smith** – 2014, “Using benthic communities to evaluate disturbance at McMurdo Station, Antarctica”
6. **Paniz Bighash** – 2013 “Evaluation of groundwater contributions to Oso Creek, South Texas”
7. **Jacalyn Gorczynski** – 2012 “Paleotempestology of Indianola”
8. **Boris Radosovic** – 2012 “Accretionary processes on Mustang Island”
9. **Michael Barajas** – 2010 “Benthic communities before and after Packery Channel opening”
10. **LeAnn Kincaid** – 2010, “Coral reef education program” (professional paper)
11. **Holly Hardaway** – 2001, “Characterization of benthic macroinvertebrate communities in the Texas Coastal Bend in relation to salinity”
12. **Erin Albert** – 2001, “Benthic community response to bioremediation experiments on the San Jacinto River, Houston, Texas”

In Progress

Chair/Co-Chair – FAMA

Graduates

1. **Adriana Leiva** – 2018, “Cow nose ray diet” (professional paper)
2. **Phil Fowler** – 2017, “Blue crab megalopae distribution”
3. **Tyler Schnacht** – 2017, “Preconditioning hatchery raised red drum to habitat structure”
4. **Dale Cochran** – 2013, “Length-at-age relationship of oversized red drum (*Sciaenops ocellatus*) from the northwestern Gulf of Mexico” (professional paper)

Member – FAMA

Graduates

1. **Kat Mendenhall** – 2015, “Black drum starvation in Baffin Bay”
2. **Patrick Graham** – 2015, “Evaluating community development in restored oyster reefs”
3. **Brandon Klim** – 2009, “The effect of a short chain fructooligosaccharide prebiotic on the growth, survival and immune response of adult pacific white shrimp *Litopenaeus vannamei*”
4. **Rodrigo Almeida** – 2006 “Shrimp feed chemo-attractants”
5. **Jason T. Fricker** – 2004, “Growth and nutrient uptake of *Gracilaria tikvahiae* in a continuous flow, recirculating shrimp (*Litopenaeus vannamei*) production system”

Chair/Co-chair - MARB M.S.

Graduates

1. **Danielle Zimmerman** – 2018 “Scope for Growth and Dermo disease in oysters”
2. **Lindsey Ramirez** – 2017, “Hypersalinity effects on terrapin physiology”
3. **Josette Delgado** – 2016, “Trophic position of porcelain crabs in oyster reef using stable isotopes”
4. **Goffrey Purtle** – 2014, “Characterization of the macrofauna communities inhabiting drifting offshore and nearshore *Sargassum* on the central Texas Gulf of Mexico coast (professional paper)
5. **Rachel Fern** – 2013, “Reproductive success of nesting terns and black skimmers on the central Texas coast”

Member – MARB M.S.

Graduates

1. **Danielle Aguilar** – 2017, “Development of benthic communities on oyster reefs”
2. **Kevin DeSantiago** – 2015, “Evaluating oyster community establishment on differing substrate types used in restoration projects”
3. **Meredyth Herdener** – 2015, “Salinity effects on macrobenthos in Nueces Estuary”
4. **Katie Sharp** – 2014, “Fatty acids in emaciated black drum from Baffin Bay, Texas” (professional paper).

In Progress

Abe Margo – BIBI for tidal streams

Abby Williams – Halfmoon reef monitoring

Megan Martinez – oyster restoration

Member - MARB Ph.D.

Graduates

1. **I-Shou Huang** – 2018, “Algal toxins and bioactive properties”
2. **Michael Reuscher** – 2013 “Biodiversity, ecology, and natural history of polychaetous annelids from the Gulf of Mexico”
3. **Adrian Bandolon** – 2014 “Development of a methodology for evaluation of dietary feeding stimulants for the sea urchin *Lytechinus variegatus* (Lamarck)”

Member - CMSS Ph.D.

Graduates

Keith Johnson – 2011 “The effects of predation and predator diversity on oyster reef community structure”

In Progress

Terry Palmer – disturbance effects of benthos of Antarctica