

MICHAEL S. WETZ

Texas A&M University-Corpus Christi
Department of Life Sciences
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EDUCATION

Institution:	Degree:	Date:	Field of Study:
Oregon State University	Ph.D.	2006	Oceanography
Oregon State University	M.S.	2003	Oceanography
Coastal Carolina University	B.S.	2000	Marine Science

PROFESSIONAL EXPERIENCE

2020-present	Full Professor , Department of Life Sciences, Texas A&M University-Corpus Christi
2018-present	Chair for Coastal Ecosystem Processes , Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus Christi
2014-2020	Associate Professor , Department of Life Sciences, Texas A&M University-Corpus Christi
2013-2017	Coordinator , Marine Biology Graduate Program, Texas A&M University-Corpus Christi
2010-2014	Assistant Professor , Department of Life Sciences, Texas A&M University-Corpus Christi
2010-2017	Adjunct Faculty Appointment , Department of Earth, Ocean and Atmospheric Sciences, Florida State University
2009-2013	Adjunct Faculty Appointment , Department of Environmental Sciences & Engineering, University of North Carolina-Chapel Hill
2009-2010	Assistant Professor , Department of Oceanography, Florida State University
2006-2008	National Research Council Research Associate , The University of North Carolina Institute of Marine Sciences & U.S. EPA
2003-2006	NSF Graduate Research Fellow , Oregon State University
2001-2003	Graduate Research Assistant , Oregon State University
1999-2001	Research Specialist , Belle W. Baruch Marine Laboratory

PUBLICATIONS

- Hogan, J.A., and 42 other authors (**M.S. Wetz** was 34th author). 2020. A research framework to integrate cross-ecosystem responses to tropical cyclones. *Bioscience* 70: 477-489
- Patrick, C.J., L. Yeager, A.R. Armitage, F. Carvallo, V.M. Congdon, K.H. Dunton, M. Fisher, A.K. Hardison, J.D. Hogan, J. Hosen, X. Hu, B. Kiel Reese, S. Kinard, J.S. Kominoski, X. Lin, Z. Liu, P.A. Montagna, S.C. Pennings, L. Walker, C.A. Weaver, and **M.S. Wetz**. 2020. A system level analysis of coastal ecosystem responses to hurricane impacts. *Estuaries and Coasts* 43: 943-959
- Hu, X., H. Yao, C.J. Staryk, M.R. McCutcheon, **M.S. Wetz**, and L. Walker. 2020. Disparate responses of carbonate system in two adjacent subtropical estuaries to the influence of

- Hurricane Harvey—a case study. *Frontiers in Marine Science*
<https://doi.org/10.3389/fmars.2020.00026>
- *Wang, H., X. Hu, **M.S. Wetz**, and K. Lu. 2020. Photochemical degradation of organic carbon in a eutrophic, semiarid estuary. *Limnology and Oceanography Letters* 5: 246-253
- *Bugica, K., B. Sterba-Boatwright, and **M.S. Wetz**. 2020. Water quality trends in Texas estuaries. *Marine Pollution Bulletin* 152: doi: 110903
- *Cira, E., and **M.S. Wetz**. 2019. Spatial-temporal distribution of *Aureoumbra lagunensis* (“brown tide”) in Baffin Bay, Texas. *Harmful Algae* 89: doi: 101669
- *Borchardt, T., K. Fisher, A. Ebling, J. Westrich, P. Xian, C. Holmes, W. Landing, E. Lipp, **M.S. Wetz**, and E. Ottesen. 2019. Saharan dust deposition initiates successional patterns among marine microbes in the western Atlantic. *Limnology and Oceanography* 65: 191-203
- *Wang, H., X. Hu, **M.S. Wetz**, and K.C. Hayes. 2018. Oxygen consumption and organic matter remineralization in two subtropical, eutrophic coastal embayments. *Environmental Science & Technology* 52: 13004-13014
- Montagna, P.A., X. Hu, T.A. Palmer, and **M.S. Wetz**. 2018. Effect of hydrological variability on the biogeochemistry of estuaries across a climatic gradient. *Limnology and Oceanography* 63: 2465-2478
- *Geyer, N., M. Huettel, and **M.S. Wetz**. 2018. Biogeochemistry of a river-dominated estuary (Apalachicola Bay, Florida) influenced by drought and storms. *Estuaries and Coasts* 41: 2009-2023
- Ajemian, M.J., K. Mendenhall, J.B. Pollack, **M.S. Wetz**, and G.W. Stunz. 2018. Moving forward in a reverse estuary: movement and habitat use of Black Drum (*Pogonias cromis*) under distinct hydrological regimes in Baffin Bay, Texas. *Estuaries and Coasts* 41: 1410-1421
- *Geyer, N., M. Huettel, and **M.S. Wetz**. 2018. Phytoplankton spatial variability in the river-dominated estuary, Apalachicola Bay, Florida. *Estuaries and Coasts* 41: 2024-2038
- Wetz, M.S.**, E.K. Cira, B. Sterba-Boatwright, P.A. Montagna, T.A. Palmer, and K.C. Hayes. 2017. Exceptionally high organic nitrogen concentrations in a semi-arid South Texas estuary susceptible to brown tide blooms. *Estuarine Coastal and Shelf Science* 188: 27-37
- *Cira, E.K., H.W. Paerl, and **M.S. Wetz**. 2016. Effects of nitrogen availability and form on phytoplankton growth in a eutrophied estuary (Neuse River Estuary, NC, USA). *PLoS ONE* 11: e0160663
- Wetz, M.S.**, K. Fisher, L. Price, K. Hayes, and B. Sterba-Boatwright. 2016. Water quality dynamics in an urbanizing South Texas estuary (Oso Bay, Texas). *Marine Pollution Bulletin* 104: 44-53
- Kimmel, D., B.D. McGlaughon, J. Leonard, H.W. Paerl, J.C. Taylor, E.K. Cira, and **M.S. Wetz**. 2015. Mesozooplankton abundance in relation to the chlorophyll maximum in the Neuse River Estuary, North Carolina, USA: implications for trophic dynamics. *Estuarine, Coastal and Shelf Science* 157: 59-68
- *Crosswell, J., **M.S. Wetz**, B. Hales, and H. Paerl. 2014. Extensive CO₂ emissions from shallow coastal waters during passage of Hurricane Irene (August, 2011) over the mid-Atlantic coast of the U.S.A. *Limnology and Oceanography* 59: 1651-1665
- Wetz, M.S.**, and D.A. Yoskowitz. 2013. An extreme future for estuaries? Effects of extreme climatic events on estuarine water quality and ecosystem dynamics. *Marine Pollution Bulletin* 69: 7-18
- Sokoletsky, L.G., R.S. Lunetta, **M.S. Wetz**, and H.W. Paerl. 2012. Assessment of the water

- quality components in turbid estuarine waters based on radiative transfer approximations. *Israel Journal of Plant Sciences* 60: 209-229
- *Crosswell, J., **M.S. Wetz**, B. Hales, and H. Paerl. 2012. Air-water CO₂ fluxes in the microtidal, seasonally-stratified Neuse River Estuary, North Carolina. *Journal of Geophysical Research-Oceans* 117: C08017, doi: 10.1029/2012JC007925
- Wetz, M.S.**, J. Leonard, J.C. Taylor, and H.W. Paerl. 2011. Environmental controls upon picophytoplankton growth and biomass in a eutrophic estuary. *Aquatic Microbial Ecology* 63:133-143
- Sokoletsky, L., R. Lunetta, **M.S. Wetz**, and H.W. Paerl. 2011. MERIS retrieval of water quality components in the turbid Albemarle-Pamlico Sound Estuary, USA. *Remote Sensing* 3: 684-707
- Wetz, M.S.**, E. Hutchinson, R. Lunetta, H. Paerl, J.C. Taylor. 2011. Severe droughts reduce planktonic production in estuaries with cascading effects on higher trophic levels. *Limnology and Oceanography* 56: 627-638
- *Gaulke, A.K., **M.S. Wetz**, and H.W. Paerl. 2010. Picophytoplankton: major contributors to planktonic biomass and primary production in a river-dominated, eutrophic estuary. *Estuarine, Coastal and Shelf Science* 90: 45-54
- Paerl, H.W., K. Rossignol, N. Hall, B. Peierls, and **M.S. Wetz**. 2010. Phytoplankton community indicators of short and long-term ecological change in the anthropogenically and climatically impacted Neuse River Estuary, North Carolina, USA. *Estuaries and Coasts* 33: 485-497
- Wetz, M.S.**, M. Robbins, and H.W. Paerl. 2009. Transparent exopolymer particles (TEP) in a river-dominated estuary: spatial-temporal distributions and controls upon TEP formation. *Estuaries and Coasts* 32: 447-455
- Wetz, M.S.**, and H.W. Paerl. 2008. Impact of large storm events with different meteorological characteristics on estuarine ciliate biomass. *Journal of Plankton Research* 30(5): 551-557
- Wetz, M.S.**, and H.W. Paerl. 2008. Estuarine phytoplankton responses to hurricanes and tropical storms with different characteristics (trajectory, rainfall, winds). *Estuaries and Coasts* 31: 419-429
- Wetz, M.S.**, B. Hales, and P.A. Wheeler. 2008. Degradation of diatom-derived dissolved and particulate organic matter: implications for coastal C and N biogeochemistry. *Estuarine, Coastal and Shelf Science* 77: 422-432
- Wetz, M.S.**, and P.A. Wheeler. 2007. Release of dissolved organic matter by coastal diatoms. *Limnology and Oceanography* 52(2): 798-807
- Wetz, M.S.**, B. Hales, P.A. Wheeler, Z. Chase, and M. Whitney. 2006. Riverine input of macronutrients, iron, and organic matter to the coastal ocean off Oregon, USA, during the winter. *Limnology and Oceanography* 51(5): 2221-2231
- Wetz, M.S.**, K.C. Hayes, A.J. Lewitus, J.L. Wolny, and D.L. White. 2006. Variability in phytoplankton pigment biomass and taxonomic composition over tidal cycles in a salt marsh estuary. *Marine Ecology Progress Series* 320: 109-120
- Lewitus, A.J., **M.S. Wetz**, B.M. Willis, J.M. Burkholder, and H.B. Glasgow. 2006. Grazing activity of *Pfiesteria piscicida* (Dinophyceae) and susceptibility to ciliate predation vary with toxicity status. *Harmful Algae* 5(4): 427-434
- Wetz, M.S.**, P.A. Wheeler, and R.M. Letelier. 2004. Light induced growth of phytoplankton collected during the winter from the benthic boundary layer off Oregon, USA. *Marine Ecology Progress Series* 280: 95-104

- Wetz, M.S.**, and P.A. Wheeler. 2004. Response of bacteria to simulated upwelling phytoplankton blooms. *Marine Ecology Progress Series* 272: 49-57
- Wetz, M.S.**, and P.A. Wheeler. 2003. Production and partitioning of organic matter during simulated phytoplankton blooms. *Limnology and Oceanography* 48(5): 1808-1817
- Wetz, M.S.**, A.J. Lewitus, E.T. Koepfler, and K.C. Hayes. 2002. Impact of the eastern oyster *Crassostrea virginica* on microbial community structure in a salt marsh estuary. *Aquatic Microbial Ecology* 28(1): 87-97

GRANTSMANSHIP

External Funding:

- 2020-2021 **P.I.**, “Water quality status and trends in the Texas Coastal Bend”, *awarded* by Coastal Bend Bays & Estuaries Program. \$36,404
- 2020-2021 **P.I.** (w/ Jeff Turner-COSE), “Capturing the signature of the COVID-19 quarantine on coastal water quality”, *awarded* by Texas Sea Grant. \$9,248
- 2020 **Co-P.I.** (w/ Jeff Turner-COSE), “Characterizing water quality conditions in the Texas coastal zone”, *awarded* by Texas General Land Office. \$20,000 (\$2,007 to Wetz)
- 2020-2022 **P.I.** (w/ Dorina Murgulet, David Felix, Mohamed Ahmed, Hussain Abdulla-COSE), “An integrated assessment of nutrient loadings to Baffin Bay, Texas”, *awarded* by Texas General Land Office. \$1,189,413 (\$367,350 to Wetz)
- 2019-2020 **P.I.** (w/ David Yoskowitz-HRI), “Harmful algal bloom monitoring and assessment plan for Texas estuaries”, *awarded* by Texas OneGulf Center of Excellence. \$217,501
- 2019-2021 **P.I.**, “Understanding the cause of a long-term increase in red tide frequency in Nueces-Corpus Christi Bay”, *awarded* by NOAA Coastal Management Program. \$98,957
- 2019-2021 **Co-P.I.** (w/ Greg Stunz, Jenni Pollack- HRI, Pam Plotkin- TAMU, David Wells, Jay Rooker- TAMUG, Ed Oborny- BioWest), “A multidisciplinary ecosystem assessment of Matagorda Bay to inform conservation of endangered sea turtles”, *awarded* by Texas Comptroller of Public Accounts. \$2,706,526 (\$324,217 to Wetz)
- 2018-2021 **P.I.**, “Baffin Bay water quality study”, *awarded* by Celanese Corporation. \$150,000
- Expired:
- 2018-2019 **P.I.**, “Influence of freshwater inflow gradients on estuarine nutrient-phytoplankton dynamics”, *awarded* by Texas Water Development Board. \$100,000
- 2017-2019 **Co-P.I.** (w/ Paul Montagna, Xiping Hu- TAMUCC), “RAPID: Capturing the signature of Hurricane Harvey on Texas coastal lagoons”, *awarded* by NSF Chemical Oceanography. \$182,790 (\$52,905 to Wetz)
- 2017-2019 **P.I.**, “Phase 2: Baffin Bay water quality study: data collection and outreach to address water quality concerns”, *awarded* by NOAA Coastal Management Program. \$88,012
- 2015-2019 **Co-P.I.** (w/ Paul Montagna, Xiping Hu- TAMUCC, H-C. Kim- NOAA, Zhanfei Liu- UTMSI), “Ocean Acidification: A hydrologic switch explains hypoxia and

- acidification in estuaries”, *awarded* by NOAA CSCOR. \$1,265,000 (\$268,000 to Wetz)
- 2014-2019 **Co-P.I.** (w/ Erin Lipp, Liz Ottesen- UGA, Bill Landing- FSU, Dale Griffin- USGS), “Collaborative Research: Heterotrophic microbial community response to dust deposition events”, *awarded* by NSF Biological Oceanography. \$220,758 (Wetz portion)
- 2016-2018 **P.I.** (w/ Blair Sterba-Boatwright- TAMU-CC) “Long-term water quality trends in central-south Texas estuaries: relationships with climatic variability and land use change”, *awarded* by NOAA Coastal Management Program. \$52,545
- 2016-2018 **Co-P.I.**, “Gulf of Mexico report card prototype”, *awarded* by Texas OneGulf Center of Excellence, \$550,000 (\$30,000 to Wetz)
- 2016-2018 **Co-P.I.**, “Red tide integration project”, *awarded* by Texas OneGulf Center of Excellence, \$103,650 (\$30,040 to Wetz)
- 2014-2018 **P.I.**, “Baffin Bay volunteer water quality study”, *awarded* by Celanese Corporation. \$150,000
- 2014-2018 **P.I.** (w/ Xiping Hu- TAMU-CC), “Identification of organic matter sources contributing to hypoxia formation in two eutrophic South Texas estuaries: relationships to watershed land use practices”, *awarded* by Texas Sea Grant. \$273,314
- 2016-2017 **P.I.** (w/ Xiping Hu- TAMU-CC), “Water quality monitoring of mid-coast estuaries”, *awarded* by Texas Water Development Board. \$19,500
- 2015-2017 **P.I.**, “Implementation of a continuous water quality monitoring network in Baffin Bay”, *awarded* by Coastal Bend Bays & Estuaries Program. \$51,000
- 2014-2016 **P.I.**, “Baffin Bay volunteer water quality study: Data collection and outreach in support of management efforts”, *awarded* by NOAA Coastal Management Program. \$76,801
- 2014-2016 **P.I.**, “Water quality monitoring of mid-coast estuaries”, *awarded* by Texas Water Development Board. \$20,000
- 2013-2014 **Co-P.I.** (w/ Luis Cifuentes, Xiping Hu, Greg Stunz- TAMU-CC), “MRI: Acquisition of elemental stable isotope chemistry (ESIC) mass spectrometer”, *awarded* by NSF Ocean Sciences Major Research Instrumentation. \$419,259
- 2013-2015 **Co-P.I.** (w/ Dorina Murgulet- TAMU-CC), “Evaluating groundwater inflow and nutrient transport to Texas coastal embayments”, *awarded* by NOAA Coastal Management Program. \$85,686
- 2012-2014 **P.I.**, “Evaluation of factors contributing to water quality degradation in an urbanizing estuary (Oso Bay, Texas)”, *awarded* by NOAA Coastal Management Program. \$70,654
- 2013-2014 **P.I.**, “Baffin Bay volunteer water quality monitoring study: Year 1”, *awarded* by Kleberg County Commissioners, Coastal Conservation Association, Saltwater Fisheries Enhancement Association and Coastal Bend Bays & Estuaries Program. \$41,500
- 2012-2014 **P.I.**, “Measurement of ungauged flow in Oso Bay to determine nutrient loadings”, *awarded* by Coastal Bend Bays and Estuaries Program. \$19,000
- 2013-2014 **Co-P.I.** (w/ Jennifer Pollack- TAMU-CC), “Oyster reef restoration in Texas: enhancing water filtration capacity”, *awarded* by Gulf of Mexico Foundation. \$99,261

- 2010-2013 **Co-P.I.** (w/ Hans Paerl- UNC, David Kimmel- ECU), "The estuarine chlorophyll maxima: an integrator and indicator of ecological change in the coastal zone", *awarded* by NSF Ecosystem Science. \$299,984 (\$115,135 to Wetz)
- 2008-2012 **Co-P.I.** (w/ Hans Paerl- UNC, Burke Hales- OSU), "Estuarine air-sea CO₂ fluxes: evaluating the impact of climatological drivers spanning multiple temporal scales using ships-of-opportunity and remote sensing", *awarded* by NSF Chemical Oceanography. \$523,661 (\$60,409 to Wetz)
- 2008-2009 **P.I.** (w/ J. Chris Taylor- NOAA), "Picophytoplankton: potential links between climate change, estuarine food web and hypoxia dynamics", *awarded* by N.C. Sea Grant. \$41,179

TEACHING EXPERIENCE (*Developed course; **Completed significant revision of course from prior instructor)

Instructor of record at Texas A&M University-Corpus Christi for:

2020	MARB6590/CMSS6323	Global Change	8 graduate students
2018	*MARB6340	Marine Organisms & Processes	33 graduate students
2017	MARB6590/CMSS6359 BIOL4323	Marine Ecosystem Dynamics Global Change Ecology	9 graduate students 30 undergraduates
2016	MARB6590/CMSS6359 BIOL4323	Marine Ecosystem Dynamics Global Change Ecology	12 graduate students 24 undergraduates
2015	MARB6590/CMSS6359 BIOL4323	Marine Ecosystem Dynamics Global Change Ecology	7 graduate students 14 undergraduates
2014	MARB6590/CMSS6359 BIOL4590	Marine Ecosystem Dynamics Global Change Ecology	13 graduate students 6 undergraduates
2013	MARB6590/CMSS6359 BIOL4590 MARB/CMSS6590	Marine Ecosystem Dynamics Global Change Ecology Global Change	8 graduate students 14 undergraduates 12 graduate students
2012	MARB6590/CMSS 6359 *BIOL4590 MARB/CMSS6590	Honors Project of Excellence Marine Ecosystem Dynamics Global Change Ecology Global Change	1 undergraduate 12 graduate students 8 undergraduates 5 graduate students
2011	**MARB6590/CMSS 6359 BIOL3428 *MARB6590	Marine Ecosystem Dynamics Principles of Ecology Global Change	18 graduate students 47 undergraduates 17 graduate students

Instructor of record at Florida State University for:

2009	*OCE4930/5930	Plankton Ecology	18 graduate students 6 undergraduates
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Guest lecturer at Texas A&M University-Corpus Christi for:

2012	Marine Ecology
2011	Introductory Oceanography Coastal Ecology of Texas Marine Biology Seminar
2010	Marine Ecology

Graduate teaching assistant at Oregon State University for:

2006 Introduction to Oceanography (undergraduate)
2004 Biological Oceanography (undergraduate)

ADVISING AND MENTORING

Graduate Mentoring:

Doctor of Philosophy – Dissertation Advisor

2009-2017 Dr. Natalie Geyer, FSU Oceanography
“Spatial and temporal distribution of phytoplankton in a river-dominated estuary, Apalachicola Bay, Florida”
Natalie received a National Estuarine Research Reserve fellowship under my guidance. She is now employed by the Florida Department of Environmental Protection.

2013-2020 Emily Cira, TAMU-CC Coastal Marine System Science Program,
“Phytoplankton dynamics in a eutrophying South Texas estuary (Baffin Bay)”
Emily is currently a full-time employee of the U.S. EPA after completing a Knauss Fellowship. Emily has received the following prestigious awards under my guidance:

1. *Texas Sea Grant Graduate Research grant*
2. *Ocean Carbon Biogeochemistry scholarship to attend Cornell University Ocean Remote Sensing summer course*
3. *International Phycological Society Grant*
4. *Travel funding to attend MARINE Ocean Policy summer course in Monterey, CA*
5. *Knauss Fellowship (beginning in January 2018)*

2016-present Sarah Tominack, TAMU-CC Marine Biology program
“Physical, chemical and biological factors influencing Karenia brevis bloom dynamics in a South Texas bay (Corpus Christi Bay)”
Sarah received a Texas Research Development grant under my guidance.

2017-present Lily Walker, TAMU-CC Coastal Marine System Science Program
“Dissolved oxygen dynamics in Texas estuaries”

Master of Science – Thesis Advisor

2020-present Jordana Cutajar, TAMU-CC Coastal Marine System Science
Molly McBride, TAMU-CC Coastal Marine System Science

2018-2020 Tiffany Chin, TAMU-CC Marine Biology

2014-2018 Kelsey Fisher, TAMU-CC Biology

2014-present Kenneth Hayes, TAMU-CC Environmental Science
Ken received a Texas Sea Grant Graduate Research grant under my guidance.

2011-2013 Emily Cira, TAMU-CC Marine Biology
Emily received a prestigious Hoshaw Travel Award from the Phycological Society of America under my guidance.

2009-2012 Kristina Welch, FSU Oceanography

Graduate Committees

Current Ph.D. Mark McKay, TAMU-CC Coastal Marine System Science
Paxton Bachand, TAMU-CC Marine Biology

Past

Ph.D. Lee Pinnell, TAMU-CC Marine Biology
 Hongjie Wang, TAMU-CC Coastal Marine System Science
 Kaitlyn Schroeder, TAMU-CC Coastal Marine System Science
 Lauren Gurski, TAMU-CC Marine Biology
 Jessica Lunt, TAMU-CC Marine Biology
 Evan Turner, TAMU-CC Coastal Marine System Science
 Joey Crosswell, UNC Environmental Science & Engineering
 Natasha Dimova, FSU Oceanography
 Lindsay Chipman, FSU Oceanography
 Joseph Kowalski, TAMU-CC Marine Biology
 Briana Hauff, TAMU-CC Marine Biology
 Susan Shanks, TAMU-CC Coastal Marine System Science
 Matt Streich, TAMU-CC Marine Biology

M.S. Cameron Page, TAMU-CC Coastal Marine System Science
 Jacqui Campbell, TAMU-CC Coastal Marine System Science
 Brooke Konkle, TAMU-CC FAMA
 Cheyanne Olson, TAMU-CC ESCI
 Philip Fowler, TAMU-CC Biology
 Alicia Gaulke, UNC Marine Science
 Mike Santema, FSU Oceanography
 Claire Smith, FSU Oceanography
 Lee Schroer, TAMU-CC Marine Biology
 Jennifer Lawrence, TAMU-CC Biology
 Veronica Thompson, TAMU-CC Biology
 William McBee, TAMU-CC Environmental Science
 Quentin Hall, TAMU-CC Marine Biology

Undergraduate Research Project Mentor:

2020 Vanessa Navarro (TAMU-CC)
 2018 Ashleigh Miller (TAMU-CC)
 2017-2019 Liz Obst (TAMU-CC)
 2016-2017 Brianna Adams (TAMU-CC)
 2015 Maritza Nevarez (U. Puerto Rico)
 2014-2016 Jessica Tolan (TAMU-CC; LSAMP)
 Lily Walker (TAMU-CC)
 Victor Batres (TAMU-CC)
 2013 Michael Bailey (TAMU-CC; LSAMP)
 Toni Gee (TAMU-CC; LSAMP)
 Abigail Hobbs (Oklahoma State University; SURF)
 Ben Smith (TAMU-CC; SOAR)
 Caitlyn Mitchell (TAMU-CC; SURF)
 Charis Kerher (TAMU-CC; SURF)
 2012-2013 Diana Sokoly (TAMU-CC; SOAR)
 2012 Jennifer Feinstein (Chapman University; SURF)
 2011-2014 Kelsey Fisher (TAMU-CC; LSAMP)
 2011-2013 Lynn Price (TAMU-CC)

- Lynn is now a Ph.D. student in Old Dominion University's Department of Oceanography.*
- 2010 Jeff Browne (FSU)
 Alex Davis (FSU)
Alex is a medical student in Florida State University's College of Medicine.
 Emily Hutchinson (FSU)
Emily earned an M.S. from the University of Alaska's School of Fisheries & Oceanography.
- 2007 Meredith Robbins (UNC)
Meredith received a prestigious, competitive monetary award from UNC that allowed her to present her research findings at the 2008 Ocean Sciences Meeting. Meredith is currently a Research Assistant at the UNC Center for Health Promotion and Disease Prevention.

PRESENTATIONS (since 2008; *Student as presenter)

Scientific conferences:

- Wetz, M.** 2019. Lessons learned from a volunteer water quality study in Baffin Bay, Texas. Coastal & Estuarine Research Federation, Mobile, AL. ***Invited Plenary Talk***
- *Chin, T., and **M. Wetz.** 2019. Temporal variability in phytoplankton community composition in three Texas estuaries with different freshwater inflow regimes. Coastal & Estuarine Research Federation Meeting, Mobile, AL.
- *Hayes, K., **M. Wetz,** E. Cira, and H. Wang. 2019. A potential reservoir for the brown tide organism, *Aureoumbra lagunensis*, in a South Texas estuary. Coastal & Estuarine Research Federation Meeting, Mobile, AL.
- *Tominack, S., K. Hayes, and **M. Wetz.** 2019. Phytoplankton community dynamics in an urbanized South Texas Estuary (Corpus Christi Bay). Coastal & Estuarine Research Federation Meeting, Mobile, AL.
- *Walker, L., **M. Wetz,** P. Montagna, X. Hu, and K. Hayes. 2019. Timescales of water quality change in 3 Texas estuaries induced by passage of Hurricane Harvey. Coastal & Estuarine Research Federation Meeting, Mobile, AL.
- Patrick, C., L. Yeager, A. Armitage, F. Carvallo, V. Congdon, K. Dunton, M. Fisher, A. Hardison, J. Hogan, J. Hosen, X. Hu, B. Reese, S. Kinard, J. Kominoski, X. Lin, Z. Liu, P. Montagna, S. Pennings, L. Walker, C. Weaver, and **M.S. Wetz.** 2019. Driving wind and torrential rain: impacts of Hurricane Harvey on coastal ecosystems. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico
- *Tominack, S., K. Coffey, and **M. Wetz.** 2019. Trends in the frequency and duration of red tide blooms in south Texas estuaries. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico
- *Walker, L., **M. Wetz,** K. Hayes, and P. Montagna. 2019. Impact of Hurricane Harvey on the water quality of Texas estuaries. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico
- *Cira, E., and **M. Wetz.** 2019. Spatial-temporal variability in *Aureoumbra lagunensis* ("brown tide") abundance in Baffin Bay, Texas. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico
- Wetz, M.,** K. Hayes, and E. Cira. 2018. Synthesis of water quality studies in Baffin Bay with a view towards solutions. Gulf Estuarine Research Symposium, Galveston, TX
- *Walker, L., and **M. Wetz.** 2018. Hypoxia dynamics in a semiarid South Texas estuary. ASLO Summer Meeting, Victoria, BC
- *Cira, E., and **M. Wetz.** 2018. Drivers of "brown tide" blooms in a South Texas estuary:

- lessons from a volunteer monitoring program. Restore America's Estuaries Meeting, Long Beach, CA.
- *Chin, T., **M. Wetz**, and K. Hayes. 2018. Spatial-temporal distribution of size-fractionated chlorophyll in three estuaries of the Texas coast with different freshwater inflow regimes. Gulf Estuarine Research Symposium, Galveston, TX
- *Bugica, K., and **M. Wetz**. 2018. Long-term water quality trends in Texas estuaries: relationships with climatic variability and watershed land use change. Gulf Estuarine Research Symposium, Galveston, TX
- Montagna, P.A., L. Hyde, R. Kalke, E. Morgan, L. Walker, and **M. Wetz**. 2018. Impact of Hurricane Harvey on benthos. Harvey Research Symposium, Port Aransas, TX
- Hu, X., M. McCutcheon, H. Yao, **M. Wetz**, and P. Montagna. 2018. Extreme weather event induced changes in estuarine CO₂ flux and carbon cycle. Ocean Sciences Meeting, Portland, OR
- Montagna, P., X. Hu, L. Walker, and **M. Wetz**. 2018. Biogeochemical impact of Hurricane Harvey on Texas coastal lagoons. Ocean Sciences Meeting, Portland, OR
- *Hayes, K., **M. Wetz**, H. Wang, and X. Hu. 2017. Identification of organic matter sources contributing to hypoxia in two eutrophic South Texas estuaries. Coastal & Estuarine Research Federation Meeting, Providence, RI.
- Wetz, M.**, K. Hayes, and E. Cira. 2017. Key findings from a volunteer water quality monitoring program in Baffin Bay, Texas. Coastal & Estuarine Research Federation Meeting, Providence, RI.
- *Fisher, K., and **M. Wetz**. 2017. Dust and soil enrichment effects on phytoplankton growth in Baffin Bay, Texas. Coastal & Estuarine Research Federation Meeting, Providence, RI.
- *Tominack, S., and **M. Wetz**. 2017. Spatial and temporal variability in Corpus Christi Bay water quality and relationship with *Karenia brevis*. Coastal & Estuarine Research Federation Meeting, Providence, RI.
- *Cira, E., and **M. Wetz**. 2017. Understanding drivers of spring phytoplankton dynamics in a eutrophying, subtropical estuary. Coastal & Estuarine Research Federation Meeting, Providence, RI.
- Hu, X., H. Wang, **M. Wetz**, and K. Hayes. 2017. Modeling of dissolved oxygen and pH dynamics in Baffin Bay, Texas. Coastal & Estuarine Research Federation Meeting, Providence, RI.
- *Walker, L., **M. Wetz**, and K. Hayes. 2017. Timescales of dissolved oxygen variability in a semiarid South Texas estuary (Baffin Bay). Coastal & Estuarine Research Federation Meeting, Providence, RI.
- *Cira, E., and **M. Wetz**. 2017. Spring phytoplankton bloom dynamics in Baffin Bay, Texas. Texas Bays & Estuaries Meeting, Port Aransas, TX.
- *Wang, H., X. Hu, **M. Wetz**, and K. Hayes. 2017. Modeling of dissolved oxygen dynamics in Baffin Bay. Texas Bays & Estuaries Meeting, Port Aransas, TX.
- *Xue, J., K. Wu, **M. Wetz**, and Z. Liu. 2017. Spatial and seasonal patterns of total dissolved amino acids in Lavaca and San Antonio Bays, Texas. Texas Bays & Estuaries Meeting, Port Aransas, TX.
- *Bugica, K., B. Sterba-Boatwright, and **M. Wetz**. 2017. Long-term water quality trends in Texas estuaries: relationships with climatic variability and watershed land use change. Texas Bays & Estuaries Meeting, Port Aransas, TX.
- *Fisher, K., and **M. Wetz**. 2017. Dust and soil enrichment effects on phytoplankton growth in

- Baffin Bay, TX. Texas Bays & Estuaries Meeting, Port Aransas, TX.
- *Hayes, K., **M. Wetz**, E. Cira, H. Wang, and X. Hu. 2017. Is Baffin Bay ‘eutrophic’? Texas Bays & Estuaries Meeting, Port Aransas, TX.
 - *Walker, L., **M. Wetz**, and K. Hayes. 2017. Seasonal and interannual variability in dissolved oxygen levels in Baffin Bay, Texas. Texas Bays & Estuaries Meeting, Port Aransas, TX.
 - Montagna, P.A., X. Hu, T. Palmer, and **M. Wetz**. 2017. Effect of freshwater inflow on biogeochemistry of estuaries and regional and local scales. ASLO Aquatic Sciences Meeting, Honolulu, HI.
 - *Bugica, K., B. Sterba-Boatwright, and **M. Wetz**. 2017. Long-term water quality trends in Texas estuaries: relationships with climatic variability and watershed land use change. ASLO Aquatic Sciences Meeting, Honolulu, HI.
 - *Cira, E., **M. Wetz**. 2016. Water quality degradation in a hypersaline, lagoonal South Texas estuary (Baffin Bay): symptoms and potential causes. Restore America’s Estuaries Meeting, New Orleans, LA.
 - Wetz, M.**, E. Cira, K. Hayes, L. Walker, X. Hu, and H. Wang. 2016. Hypoxia in a hypersaline, lagoonal South Texas estuary (Baffin Bay). Restore America’s Estuaries Meeting, New Orleans, LA.
 - *Hayes, K., E. Cira, X. Hu, H. Wang, and **M. Wetz**. 2016. Spatial-temporal distribution of organic carbon and nitrogen in a eutrophic estuary (Baffin Bay, TX). Texas Bays & Estuaries Meeting, Port Aransas, TX.
 - *Wu, K., X. Hu, **M. Wetz**, P. Montagna, and Z. Liu. 2016. Using total dissolved amino acids to evaluate production and bioavailability of dissolved organic nitrogen in Lavaca and San Antonio Bays. Texas Bays & Estuaries Meeting, Port Aransas, TX.
 - *Wang, H., K. Hayes, **M. Wetz**, and X. Hu. 2016. A stable isotope study on organic matter driving oxygen consumption in two south Texas estuaries. Texas Bays & Estuaries Meeting, Port Aransas, TX.
 - Wetz, M.**, K. Hayes, and E. Cira. 2016. Three years of water quality sampling in Baffin Bay by “citizen scientists”: what have we learned? Texas Bays & Estuaries Meeting, Port Aransas, TX.
 - *Geyer, N., M. Huettel, and **M. Wetz**. 2016. Small-scale spatial dynamics of phytoplankton in Apalachicola Bay, Florida, a river-dominated estuary. AGU-ASLO Ocean Sciences Meeting, New Orleans, LA.
 - Wetz, M.**, K. Hayes, and K. Fisher. 2015. Wastewater influence on oxygen and pH conditions in a subtropical estuary (Oso-Corpus Christi Bay, Texas). Coastal & Estuarine Research Federation Meeting, Portland, OR.
 - *Hayes, K., E. Cira, X. Hu, H. Wang, and **M. Wetz**. 2015. Spatial-temporal distribution of organic carbon and nitrogen in a eutrophic estuary (Baffin Bay, TX). Coastal & Estuarine Research Federation Meeting, Portland, OR.
 - *Cira, E., K. Hayes, and **M. Wetz**. 2015. Nutrient controls upon phytoplankton growth in a eutrophying, brown tide-dominated South Texas estuary (Baffin Bay). Coastal & Estuarine Research Federation Meeting, Portland, OR.
 - *Cira, E.K., and **M. Wetz**. 2015. The influence of physical forcing on phytoplankton dynamics in Baffin Bay, Texas. Texas Bays and Estuaries Meeting. Port Aransas, TX.
 - *Hayes, K.C., and **M. Wetz**. 2015. Spatial-temporal distribution, and partitioning of organic matter in a eutrophic estuary (Baffin Bay, TX).
 - Wetz, M.** 2014. A “citizen scientist”-driven study to identify causes of, and solutions to, water

quality degradation in a vital south Texas estuary (Baffin Bay). Kavli Frontiers of Science Symposium, Irvine, CA.

- *Cira, E., and **M. Wetz**. 2014. Influence of physical forcing on phytoplankton dynamics in Baffin Bay, Texas. Gulf Estuarine Research Society Meeting, Port Aransas, TX.
- *Hayes, K., E. Cira, K. Fisher, L. Price, B. Smith, and **M. Wetz**. 2014. Organic matter loading and heterotrophic bacterial abundance in a eutrophic, lagoonal estuary (Oso Bay, Corpus Christi, TX). Gulf Estuarine Research Society Meeting, Port Aransas, TX.
- *Fisher, K., L. Price, K. Hayes, and M. Wetz. 2014. Nutrient and phytoplankton dynamics in Oso Bay, Texas. Gulf Estuarine Research Society Meeting, Port Aransas, TX.
- *Gavlas, A., and **M. Wetz**. 2014. Relationship between the zooplankton community and water quality in an urbanizing, eutrophic estuary (Oso Bay, TX). Gulf Estuarine Research Society Meeting, Port Aransas, TX.
- *Smith, B., **M. Wetz**, and K. Hayes. 2014. Spatial-temporal distribution of heterotrophic bacteria in a eutrophic, lagoonal estuary (Oso Bay, Texas). Joint Aquatic Sciences Meeting, Portland, OR
- Wetz, M.**, E. Cira, D. Kimmel, and H. Paerl. 2013. Relative influence of top down and bottom up controls upon estuarine phytoplankton growth and community composition. Estuarine Research Federation Meeting, San Diego, CA.
- *Fisher, K., and **M. Wetz**. 2013. Phytoplankton and nutrient dynamics in an urbanizing, eutrophic subtropical estuary (Oso Bay, Texas). Estuarine Research Federation Meeting, San Diego, CA.
- Hales, B., M. Goni, E. Skillingstad, C. Wall, A. White, W. Evans, K. Harris, S. Siedlecki, and **M. Wetz**. 2013. Winter conditioning of the Cascadian margin upwelling system: Remote forcing and coastal river influences. AGU Fall Meeting, San Francisco, CA.
- Wetz, M.**, K. Fisher, L. Price, D. Sokoly, and K. Hayes. 2013. Symptoms and causes of water quality degradation in an urbanizing estuary (Oso Bay, TX). Benthic Ecology Meeting, Savannah, GA.
- *Sokoly, D., J. Pollack, and **M. Wetz**. 2013. Relationships between land use, water quality and benthic meiofauna community structure and abundance in Oso Bay (Corpus Christi, Texas). Benthic Ecology Meeting, Savannah, GA.
- *Crosswell, J., **M. Wetz**, B. Hales, and H. Paerl. 2013. Globally-significant CO₂ emissions from coastal waters induced by Hurricane Irene (2011). ASLO Aquatic Sciences Meeting, New Orleans, LA.
- *Cira, E., **M. Wetz**, D. Kimmel, and H. Paerl. 2013. Bottom-up and top-down controls upon estuarine phytoplankton growth and community composition. ASLO Aquatic Sciences Meeting, New Orleans, LA.
- *Byars, N., and **M. Wetz**. 2013. Spatial-temporal distribution of phytoplankton in Apalachicola Bay, Florida. ASLO Aquatic Sciences Meeting, New Orleans, LA.
- *Price, L., K. Fisher, **M. Wetz**. 2013. Causes and symptoms of eutrophication in an urbanizing estuary (Oso Bay, Corpus Christi, TX). ASLO Aquatic Sciences Meeting, New Orleans, LA.
- *Cira, E., **M. Wetz**, D. Kimmel, and H. Paerl. 2012. Effects of eutrophication and trophic structure alteration on estuarine phytoplankton growth and community composition. Phycological Society of America Meeting, Charleston, SC.
- *Marshall, K., and **M. Wetz**. 2012. Effects of elevated CO₂ levels on estuarine phytoplankton growth and taxonomic composition. Phycological Society of America Meeting, Charleston, SC.

- Wetz, M.**, E. Hutchinson, R. Lunetta, H. Paerl, and J.C. Taylor. 2011. Severe droughts reduce estuarine primary productivity with cascading effects on higher trophic levels. Estuarine Research Federation Meeting, Daytona Beach, FL.
- *Byars, N., and **M. Wetz**. 2011. How does river flow variability affect the spatial and temporal distribution of phytoplankton in Apalachicola Bay, Florida? Estuarine Research Federation Meeting, Daytona Beach, FL.
- *Byars, N., and **M. Wetz**. 2011. How does river flow variability affect the spatial and temporal distribution of phytoplankton in Apalachicola Bay, Florida? ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico.
- Wetz, M.**, E. Hutchinson, R. Lunetta, H. Paerl, and J.C. Taylor. 2010. Severe drought reduces estuarine phytoplankton productivity with cascading effects on higher trophic levels. Gulf Estuarine Research Society Annual Meeting, Port Aransas, TX.
- *Welch, K., **M. Wetz**, W. Cooper, and J. Kostka. 2010. Microalgae to biofuels: algal growth optimization in municipal wastewater effluent. Florida Energy Systems Consortium Summit, Orlando, FL.
- *Smith, C., J. Kostka, and **M. Wetz**. 2010. Microalgae to biofuels: Investigating the role of microbes in wastewater-derived algal cultivation systems. Florida Energy Systems Consortium Summit, Orlando, FL.
- *Crosswell, J., **M. Wetz**, B. Hales, and H. Paerl. 2010. Air-sea CO₂ fluxes in a eutrophic, lagoonal estuary. ASLO/AGU Ocean Sciences Meeting, Portland, OR.
- *Crosswell, J., **M. Wetz**, B. Hales, and H. Paerl. 2010. Air-water CO₂ fluxes and inorganic carbon dynamics in a eutrophic, microtidal estuary. AGU Fall Meeting, San Francisco, CA.
- Wetz, M.**, J. Leonard, A. Gaulke, and H. Paerl. 2010. Why do picophytoplankton bloom in some estuaries and not others? ASLO/AGU Ocean Sciences Meeting, Portland, OR.
- *Robbins, M., **M. Wetz**, and H. Paerl. 2008. Distribution of transparent exopolymer particles along an estuarine salinity gradient. ASLO/AGU Ocean Sciences Meeting, Orlando, FL.
- Wetz, M.**, and H. Paerl. 2008. Estuarine phytoplankton responses to hurricanes and tropical storms with different characteristics (trajectory, rainfall, winds). ASLO/AGU Ocean Sciences Meeting, Orlando, FL.

Invited seminars:

- Wetz, M.** 2019. Lessons learned from a volunteer water quality study in Baffin Bay, Texas. Coastal & Estuarine Research Federation Meeting, Mobile, AL. ****Plenary speaker*.
- Wetz, M.** 2019. The path to restoring Baffin Bay, the “jewel” of the Texas coast. Texas Sea Grant Program Review
- Wetz, M.** 2015. Application of systems approaches to understand causes and effects of estuarine eutrophication. Skidaway Institute of Oceanography.
- Wetz, M.** 2015. Application of systems approaches to understand causes and effects of estuarine eutrophication. Coastal Carolina University School of Coastal & Marine Sciences.
- Wetz, M.** 2014. Eutrophication dynamics in two South Texas estuaries. Texas A&M University-Galveston.
- Wetz, M.** 2014. Systems approaches to understanding the eutrophication of two South Texas estuaries. Coastal Carolina University School of Coastal & Marine Sciences.
- Wetz, M.** 2013. Effects of severe drought on estuarine planktonic food webs. University of Texas Marine Science Institute.
- Wetz, M.** 2012. Effects of severe drought on coastal ecosystem dynamics – an analogy for oligotrophication? University of South Florida College of Marine Science.

- Wetz, M.** 2012. Effects of severe drought on coastal ecosystem dynamics – an analogy for oligotrophication? Texas A&M University Department of Oceanography.
- Wetz, M.** 2010. Why do picophytoplankton bloom in some estuaries and not others? University of Massachusetts-Dartmouth.
- Wetz, M.** 2010. Storm stories: ecological and biogeochemical impact of large storm events in estuarine ecosystems. Texas A&M University-Corpus Christi.
- Wetz, M.** 2010. Storm stories: ecological and biogeochemical impact of large storm events in estuarine ecosystems. Coastal Carolina University.
- Wetz, M.** 2010. Storm stories: ecological and biogeochemical impact of large storm events in estuarine ecosystems. American University.
- Wetz, M.** 2008. New perspectives on the ecological and biogeochemical impact of large storm events in estuarine ecosystems. University of South Carolina.
- Wetz, M.** 2008. New perspectives on the ecological and biogeochemical impact of large storm events in estuarine ecosystems. East Carolina University.
- Wetz, M.** 2008. New perspectives on the ecological and biogeochemical impact of large storm events in estuarine ecosystems. Duke University Marine Lab.
- Wetz, M.** 2008. New perspectives on the ecological and biogeochemical impact of large storm events in estuarine ecosystems. Florida State University.

Public science meetings:

- Wetz, M.** 2020. The path to restoring Baffin Bay, the “jewel” of the Texas coast. Baffin Bay Stakeholder Group Meeting, Kingsville, TX.
- Wetz, M.** 2019. The path to restoring Baffin Bay, the “jewel” of the Texas coast. Texas Sea Grant Stakeholder Meeting, Kingsville, TX.
- Wetz, M.** 2019. The path to restoring Baffin Bay, the “jewel” of the Texas coast. Coastal Issues Forum of the Coastal Bend Bays Foundation. Corpus Christi, TX.
- Wetz, M.** 2019. The path to restoring Baffin Bay, the “jewel” of the Texas coast. Celanese Corporation, Bishop, TX.
- Wetz, M.** 2018. Saharan dust – an overlooked influence on the growth of harmful marine microbes? Coastal Issues Forum of the Coastal Bend Bays Foundation, Corpus Christi, TX
- Wetz, M.** 2017. Synthesis of water quality studies in Baffin Bay with a view towards solutions. Baffin Bay Watershed Protection Plan Stakeholder Meeting, Riviera, TX
- Wetz, M.** 2017. Synthesis of water quality studies in Baffin Bay with a view towards solutions. Celanese Corporation, Bishop, TX
- Wetz, M.** 2017. Synthesis of water quality studies in Baffin Bay with a view towards solutions. Coastal Conservation Association, Corpus Christi, TX
- Wetz, M.** 2016. Synthesis of water quality studies in Baffin Bay with a view towards solutions. Baffin Bay Research Symposium, Corpus Christi, TX
- Wetz, M.** 2015. Water quality sampling in Baffin Bay – what has been learned? Texas Ag Industries Group, Kingsville, TX.
- Wetz, M.** 2015. Two years of water quality sampling in Baffin Bay... what have we learned? Celanese Corp., Bishop, TX.
- Wetz, M.** 2015. Two years of water quality sampling in Baffin Bay... what have we learned? Coastal Bend Bays & Estuaries Program, Riviera, TX.
- Wetz, M.** 2014. Does Oso Bay have a nitrogen problem? Coastal Issues Forum of the Coastal Bend Bays Foundation, Corpus Christi, TX.
- Wetz, M.** 2013. Key findings from the first 4 months of the Baffin Bay volunteer water quality

monitoring program. Coastal Issues Forum of the Coastal Bend Bays Foundation, Corpus Christi, TX.

Wetz, M. 2013. Eutrophication of South Texas estuaries: Oso Bay & Baffin Bay. Coastal Issues Forum of the Coastal Bend Bays Foundation, Corpus Christi, TX.

Panelist for public events:

2016 BLUE On Tour Film Festival

2015 The Environment: The Next Five Years (hosted by the Texas Tribune)

MEDIA COVERAGE

Print and Television Media:

2020 “Baffin Bay gets nearly \$1.2M in funding”; Kingsville Record, February 27th, 2020; http://www.kingsvillerecord.com/news/baffin-bay-gets-nearly-m-in-funding/article_c3497574-58f1-11ea-ad0f-1b04a3a2d75b.html

2019 “A local man is recovering in the hospital from a Vibrio infection”; KRIS-TV (Corpus Christi); aired on evening newscast, July 1st, 2019; <https://www.kristv.com/news/local-news/a-local-man-is-recovering-in-the-hospital-from-a-vibrio-infection>

“Local man contracts Vibrio, nearly loses life”; KRIS-TV (Corpus Christi); aired on evening newscast, June 11th, 2019; <https://kristv.com/news/local-news/2019/06/11/local-man-contracts-vibrio-nearly-loses-life/>

2018 “Red tide detected in Packery Channel, cause of fish kill undetermined”; KRIS-TV (Corpus Christi); aired on evening newscast, September 12th, 2018; <https://kristv.com/news/2018/09/12/red-tide-detected-in-packery-channel-cause-of-fish-kill-undetermined/>

“Expert: rust tide algae widespread in Long Island waters”; Newsday (Long Island, NY); August 31st, 2018; <https://www.newsday.com/long-island/rust-tide-long-island-1.20740104>

“Red tide”; Texas Standard NPR; aired in morning, afternoon and evening, August 2nd, 2018; <http://www.texasstandard.org/stories/marine-researchers-plan-to-implement-a-new-red-tide-warning-system/>

“A&M-Corpus Christi red tide study could explain cause and aid doctors”; Corpus Christi Caller Times; July 24th, 2018; <https://www.caller.com/story/news/local/2018/07/24/m-corpus-christi-red-tide-study-could-explain-cause-and-aid-doctors/803269002/>

“TAMUCC researchers look for links between Saharan dust, red tide”; KRIS-TV (Corpus Christi); aired on evening newscast, July 19th, 2018; <http://www.kristv.com/story/38687486/tamucc-researchers-look-for-links-between-saharan-dust-red-tide>

2017

“Grant allows Islander researchers to study impact, recovery of bays in Harvey’s path”; Corpus Christi Caller Times; October 18th, 2017;
<http://www.caller.com/story/sports/outdoors/2017/10/18/grants-allows-islander-researchers-study-impact-recovery-rate-bays-harveys-path/771527001/>

“Effects on bays, estuaries shows another side of Harvey”; Corpus Christi Caller Times; August 30th, 2017;
<http://www.caller.com/story/sports/outdoors/2017/08/30/effect-bays-estuaries-shows-another-side-harvey/612258001/>

“Flesh-eating Vibrio can come from cleaning fish... as well as swimming”; Forbes, July 29, 2017; <https://www.forbes.com/sites/judystone/2017/07/29/flesh-eating-vibrio-from-cleaning-fish-as-well-as-swimming/#e2a8a8041d33>

“Link between Saharan Dust and Vibrio bacteria”; KIII-TV (Corpus Christi); aired on evening newscast, July 25th, and morning newscast, July 26th, 2017;
<http://www.kiiitv.com/news/local/link-between-saharan-dust-and-vibrio-bacteria/459515734>

“Celanese Corporation continues funding for Baffin Bay study”; KIII-TV (Corpus Christi); aired on morning newscast, June 21st, 2017;
<http://www.kiiitv.com/news/local/celanese-corp-continues-funding-for-baffin-bay-study/450855660>

***also aired on 19 other state and national websites

“What causes brown tide? TAMUCC marine biologist professor and team of volunteers believe they’ve solved the mystery”; KRIS-TV (Corpus Christi); aired on evening newscast, March 31st, 2017;
<http://www.kristv.com/story/35045287/what-causes-brown-tide-tamucc-marine-biologist-professor-and-team-of-volunteers-believe-theyve-solved-the-mystery>

2016

“TAMUCC Student uses a high tech tracking device to monitor the red tide”; KRIS-TV (Corpus Christi); aired on evening newscast, October 14th, 2016;
<http://www.kristv.com/clip/12819699/tamucc-student-uses-a-high-tech-tracking-device-to-monitor-the-red-tide>

“Red tide concerns linger”; KRIS-TV (Corpus Christi); aired on evening newscast, October 11th, and morning newscast, October 12th, 2016;
<http://mms.tveyes.com/PlaybackPortal.aspx?SavedEditID=ff9a8694-7b7e-4d1f-8d8a-5888367558ed>

“Red tide research”; KRIS-TV (Corpus Christi); aired on evening newscast, September 7th, 2016;
<http://mms.tveyes.com/PlaybackPortal.aspx?SavedEditID=e15cd5b8-24e0-435e-9ce2-a62611f04080>

“Baffin Bay symposium”; KRIS-TV (Corpus Christi); aired on evening newscast, June 28th, 2016; <http://www.kristv.com/story/32322273/baffin-bay-symposium>

“Research on Baffin Bay reaches historic high”; Corpus Christi Caller Times; June 27th, 2016; <http://www.caller.com/news/local/research-on-baffin-bay-reaches-historic-high-3642b5e7-8244-4ff6-e053-0100007fb595-384592111.html>

“Rain helped bays but did little for lakes”; Corpus Christi Caller Times; May 18th, 2016; <http://www.caller.com/sports/outdoors/rain-helped-bays-but-did-little-for-lakes-330bf587-f6f2-3375-e053-0100007feed--380039641.html>

“\$400,000 for coastal studies”; KRIS-TV (Corpus Christi); aired on evening newscast, March 13th, 2016; <http://www.kristv.com/story/31458511/400000-for-coastal-studies>

“Science students become stewards through research”; Corpus Christi Caller Times; January 22nd, 2016 edition; <http://www.caller.com/news/local/science-students-become-stewards-through-research-295196cd-1fef-04c1-e053-0100007f1fe7-365942821.html>

2015

“Abandon the bait and take the plastic plunge”; Corpus Christi Caller Times; December 12th, 2015 edition; <http://www.caller.com/sports/outdoors/abandon-the-bait-and-take-the-plastic-plunge-2665e7c1-7858-2535-e053-0100007fe2df-361691051.html>

“The lure of Baffin in summer”; Corpus Christi Caller Times; August 22nd, 2015 edition; <http://www.caller.com/sports/outdoors/the-lure-of-baffin-in-summer-1def52a3-075b-0679-e053-0100007f55f4-322604381.html>

“Special report: state of the bay”; KIII-TV (Corpus Christi); aired on evening newscast, April 23rd, 2015; <http://www.kiiitv.com/story/28887126/special-report-state-of-the-bay>

“Brown tide study gets closer to answers”; Corpus Christi Caller Times; April 22nd, 2015 edition; http://www.caller.com/sports/outdoors/brown-tide-study-gets-closer-to-answers_27777629

2014

“Studying a bay: focus goes from sensational to scientific as data found; Corpus Christi Caller Times; November 23rd, 2014 edition; http://www.caller.com/sports/outdoors/sikes-baffin-bay-focus-goes-from-sensational-to-science_36546222

“Baffin Bay water quality study receives substantial funding boost”; Corpus Christi Caller Times; June 19th, 2014 edition; <http://www.caller.com/sports/outdoors/baffin-bay-water-quality-study-receives->

[substantial-funding-boost_22892913](#)

“Local company recycles dirty frac water”; KRIS-TV (Corpus Christi; aired on evening newscast, May 29th, 2014; <http://www.kristv.com/news/local-company-recycles-dirty-frac-water/>

“African dust's link to flesh-eating bacteria in the Gulf”; Houston Chronicle; May 19th, 2014 edition; <http://www.chron.com/news/article/African-dust-s-link-to-flesh-eating-bacteria-in-5489562.php>

“Saharan dust cloud may cause harmful bacteria”; KIII-TV (Corpus Christi); aired on evening newscast, May 17th, 2014; <http://mms.tveyes.com/Transcript.asp?StationID=4165&DateTime=5%2F17%2F2014+10%3A08%3A26+PM&Term=Texas+A%26M&PlayClip=TRUE>

“Saharan dust may cause harmful bacteria in Gulf”; Alice Echo News; May 13th, 2014 edition; http://www.alicetx.com/recordstar/news/article_f06be5a1-11f1-556d-b6c4-56a39ca14a10.html

“Baffin Bay researchers present early study findings to county”; Kingsville Record; March 19th, 2014 edition; http://www.kingsvillerecord.com/news/2014-03-19/Front_Page/Baffin_Bay_researchers_present_early_study_finding.html

“A look at Laguna Madre’s 2013 report card”; Corpus Christi Caller Times; January 16th, 2014 edition; <http://www.caller.com/news/2014/jan/16/sikes-a-look-at-laguna-madres-2013-report-card/>

2013

“Baffin Bay water quality sampling turned over to volunteers”; Corpus Christi Caller Times; August 16th, 2013 edition; <http://www.caller.com/news/2013/aug/15/baffin-bay-water-quality-sampling-turned-over-to/>

“Special report: Where are the fish?”; KIII-TV (Corpus Christi); aired on evening newscast, July 24th, 2013; <http://www.kiiitv.com/story/22932203/special-report-where-are-the-fish>

“Coastal Bend groups search for solutions to brown tide outbreak”; Corpus Christi Caller Times; June 13th, 2013 edition; <http://www.caller.com/news/2013/jun/13/coastal-bend-groups-search-for-solutions-to-tide/>

“Brown tide on the move”; Corpus Christi Caller Times; June 12th, 2013 edition; <http://www.caller.com/news/2013/jun/12/help-fund-the-baffin-bay-water-quality-study/>

“Brown tide and poor fishing conditions reported in Baffin Bay”; KIII-TV

(Corpus Christi); aired on evening newscast, June 12th, 2013;
<http://www.kiiitv.com/story/22576040/brown-tide-and-poor-fishing-conditions-reported-in-baffin-bay>

“Drought could be a factor behind Baffin Bay fish kills”; KRIS-TV (Corpus Christi); aired on evening newscast, March 7th, 2013;
<http://www.kristv.com/news/drought-could-be-a-factor-behind-baffin-bay-fish-kills/>

“Fish kill in Baffin Bay has residents, scientists concerned”; KIII-TV (Corpus Christi); aired on evening newscast, March 6th, 2013;
<http://www.kiiitv.com/story/21527734/fish-kill-in-baffin-bay-has-resident-scientists-concerned>

“Changes in fish population, algae cause study of Baffin Bay water quality”; Corpus Christi Caller Times; March 6th, 2013 edition;
<http://www.caller.com/news/2013/mar/05/changes-in-fish-population-algae-cause-study-of/> *****story picked up by AP and reached over 40 media outlets nationwide**

“Scientists studying Baffin Bay water”; Kingsville Record & Bishop News; March 3rd, 2013 edition; http://www.kingsvillerecord.com/news/2013-03-03/Front_Page/Scientists_studying_Baffin_Bay_water.html

“County to fund study of fish decline at Baffin Bay”; Kingsville Record & Bishop News; January 30th, 2013 edition; http://www.kingsvillerecord.com/news/2013-01-30/Front_Page/County_to_fund_study_of_fish_decline_at_Baffin_Bay.html

2012

“Why are Baffin Bay’s black drum starving to death?”; Corpus Christi Caller Times; November 28th, 2012 edition;
<http://www.caller.com/news/2012/nov/28/why-are-baffin-bays-drum-starving-to-death/>

“TAMUCC students gear up for offshore research cruise”; KIII-TV (Corpus Christi); aired on evening newscast, October 5th, 2012;
<http://www.kiiitv.com/story/19750813/tamucc-students-gear-up-for-offshore-research-cruise>

“Potentially toxic organism found in Oso Bay”; KRIS-TV (Corpus Christi); aired on evening newscast, July 12th, 2012; <http://www.kristv.com/videos/potentially-toxic-organism-found-in-oso-bay/>, <http://www.kristv.com/news/potentially-toxic-organism-found-in-oso-bay-267016/>

“Potentially toxic microorganism found in Oso Bay”; KIII-TV (Corpus Christi); aired on 5, 6 & 10 p.m. newscast, June 22nd, 2012;
<http://www.kiiitv.com/story/18860060/dangerous-microorganism-found-in-oso->

[bay](#)

“Potentially toxic microorganism found in Oso Bay”; KVEO-TV (Harlingen); aired on evening newscast, June 22nd, 2012;

<http://mms.tveyes.com/Transcript.asp?StationID=3470&DateTime=6%2F22%2F2012+5%3A20%3A25+PM&Term=%22texas+a+and+m%22+%2Bcorpus&PlayClip=TRUE>

“Potentially toxic microorganism found in Oso Bay”; KORO-TV (Corpus Christi); aired on evening newscast, June 20th, 2012;

<http://www.korotv.com/noticia/2012/06/20/384895-encuentra-peligroso-microorganismo-bahia.html>

“Texas A&M University-Corpus Christi students identify potentially toxic plankton in Oso Bay”; Corpus Christi Caller Times; June 14th, 2012 edition;

<http://www.caller.com/news/2012/jun/14/students-identify-potentially-toxic-plankton-in/>

“Texas A&M University-Corpus Christi professor awarded \$70K grant for Oso Bay water quality study”; Corpus Christi Caller Times; April 30th, 2012 edition;

<http://www.caller.com/news/2012/apr/30/texas-am-university-corpus-christi-professor-70k/>

2010

“To study greenhouse gas, researchers take the ferry”; Raleigh News and Observer; Sept. 30th, 2010 edition;

<http://www.newsobserver.com/2010/09/30/710791/to-study-greenhouse-gas-researchers.html>

PROFESSIONAL ORGANIZATIONS

American Society of Limnology and Oceanography
Estuarine Research Federation

PROFESSIONAL ACTIVITIES (external)

- 2020 Panelist, Gulf of Mexico Alliance Workshop on Harmful Algal Blooms
- 2019-2020 Task Force Member, Texas Sea Grant Baffin Bay Early Phase Watershed Planning Committee
- 2018-present Co-Chair, Baffin Bay Stakeholder Group
- The Baffin Bay Stakeholder Group was formed by the local community to bring together scientists, natural resource managers, and various stakeholders who are committed to restoring the health and productivity of Baffin Bay, which has been in decline for some time. Baffin Bay is a Texas icon and is a significant contributor to the economy of the area. The group’s charge is to identify the issues that are contributing to a decline in the health of Baffin Bay, characterize the problems, and develop solutions. The Group also serves as a communications platform between all stakeholders in the watershed to maintain transparency and monitor progress toward nutrient reduction goals.

2019 Panelist, Mississippi RESTORE Program

2018 Member, Natural Resources Specialist Search Committee, Texas Sea Grant

2018-present Associate Editor, *Gulf & Caribbean Research*

2018 Panelist, NOAA Coastal Hypoxia Program Review Panel

2018-2019 Oral Session Co-Lead, Scientific Program Committee, 2019 Coastal & Estuarine Research Federation Meeting, Mobile, AL

2017 Session Chair, Coastal & Estuarine Research Federation Meeting, Providence, RI

2017 Panelist, NOAA RESTORE Science Review Panel

2017-present Nueces Estuary Advisory Council

2016-present Member, Texas Harmful Algal Bloom Task Force

2013-present Member, Gulf of Mexico Alliance Water Resources Team

2013 Session Co-Chair, Coastal & Estuarine Research Federation Meeting, San Diego, CA

2013 Judge, Student Presentations, Coastal & Estuarine Research Federation Meeting, San Diego, CA

2013 Judge, Student Presentations, Benthic Ecology Meeting, Savannah GA

2012-present Member, Water & Sediment Quality Implementation Team, Coastal Bend Bays & Estuaries Program

2011-2014 Trustee, Coastal Bend Bays Foundation

2011 Judge, Student Presentations, Coastal & Estuarine Research Federation Meeting, Daytona Beach FL

2008 Judge, Student Poster Presentations, ASLO/AGU Ocean Sciences Meeting, Orlando FL

2007 Participant, 2nd Regional Harmful Algal Bloom Taxonomy Workshop, Florida Marine Research Institute (2007)

Ongoing Averaging 10 manuscript reviews per year (2010-2019), including for:

Aquatic Biology

Aquatic Microbial Ecology

Applied and Environmental Microbiology

Biogeosciences Discussions

Bulletin of Marine Science

Climatic Change

Critical Reviews in Environmental Science & Technology

Continental Shelf Research

Deep Sea Research I

Deep Sea Research II

Ecosystems

EPA

Estuaries and Coasts

Estuarine Coastal and Shelf Science

Gulf and Caribbean Research

Harmful Algae

Hydrobiologia

The ISME Journal

Journal of Coastal Research

Journal of Geophysical Research-Biogeosciences

Journal of Geophysical Research-Oceans
Journal of Phycology
Journal of Sea Research
Limnologica
Limnology and Oceanography
Marine Chemistry
Marine and Freshwater Research
Marine Ecology Progress Series
Marine Environmental Research
Marine Technology Society
Mississippi RESTORE Program (mail reviews & panel service)
NOAA Coastal Hypoxia Research Program (mail reviews & panel service)
NOAA Restore Science Program (mail reviews & panel service)
NSF Ecosystem Science
NSF Biological Oceanography
NSF Geography and Spatial Sciences
NSF Ocean Acidification
New York Sea Grant
PLOS One
Polar Biology
Progress in Oceanography
Science of the Total Environment
Texas Academy of Sciences
Texas Sea Grant (mail reviews of Grants-in-Aid proposals)
Woods Hole Sea Grant (mail reviews)

PROFESSIONAL ACTIVITIES

University:

2015-2018; Council of Principal Investigators and Research Administrators, TAMU-CC
 2019-present
 2015-2016 IDC Policy Working Group, TAMU-CC
 2011-2012 Emerging Research Institute Committee, TAMU-CC

College:

2017-2019 Chair, Field Operations Committee, TAMU-CC
 2011 Judge, Sigma Xi Undergraduate Research Symposium, TAMU-CC
 2011-2013 Chair, College of Science & Engineering Distinguished Speaker Series, TAMU-CC
 2011 Field Operations Committee, TAMU-CC
 2010-2011 College of Science & Engineering Awards Committee, TAMU-CC

Institute, Department & Programmatic:

2019-present Chair, Ecosystem Science & Modeling Search Committee (HRI), TAMU-CC
 2018-2019 Chair, Marine Biologist Search Committee, TAMU-CC
 2018 Member, Teaching Evaluation Committee, TAMU-CC
 2017 Chair, Functional Anatomy Search Committee, TAMU-CC

2017 Touch-of-Class, Island Days, TAMU-CC
 2016-2018 Chair, Marine Biology IDP Curriculum Committee, TAMU-CC
 2015-2016 Chair, Life Sciences Department Chair Search, TAMU-CC
 2014-present Life Sciences Promotion & Tenure Committee, TAMU-CC
 2014-2015 Marine Chemist Search Committee, TAMU-CC
 2014-2015 Life Sciences Department Chair Search Committee, TAMU-CC
 2014-2015 Chair, Coastal Watershed Biologist Search Committee, TAMU-CC
 2013-2017 Coordinator, Marine Biology Graduate program, TAMU-CC
 2013-2014 Chair, Marine Microbial Ecologist Search Committee, TAMU-CC
 2012-2013 Co-Organizer, Coastal Marine System Science program website development, TAMU-CC
 2012 Co-Organizer, System Science Day, Coastal Marine System Science program, TAMU-CC
 2012 Touch-of-Class, Island Days, TAMU-CC
 2012 Organizer, Public open house tours of R/V Falkor, ~250 visitors
 2012-2016 Student Advisor, Louis Stokes Alliance for Minority Participation
 2012-2013 Marine Microbial Ecologist Search Committee, TAMU-CC
 2012-2017 Membership Committee, Coastal Marine System Science program, TAMU-CC
 2011-2017 Recruitment Committee, Coastal Marine System Science program, TAMU-CC
 2012 Coral Reef Ecologist Search Committee, TAMU-CC
 2011-2012 Marine Molecular Biologist Search Committee, TAMU-CC
 2011-present Curriculum Committee, Coastal Marine System Science program, TAMU-CC
 2011-present CCA Fellowship Committee
 2011 Representative, Coastal Marine System Science program, Graduate School Fair, TAMU-CC
 2010 Representative, Marine Biology program, Island Days, TAMU-CC
 2010 Representative, Department of Life Sciences, Graduate School Fair, TAMU-CC
 2010-2011 Marine Molecular Biologist Search Committee, TAMU-CC
 2009 Environmental Sciences Program Development Committee, Department of Oceanography, FSU
 2009-2010 Library Committee, Department of Oceanography, FSU
 2009-2010 Computer Committee, Department of Oceanography, FSU

SERVICE TO THE COMMUNITY

2018 Organized a series of presentations to Riviera High School Environmental Science class
 2016 Career Day Presenter, Windsor Park Elementary School
 2015-2017 Guest reviewer, Riviera High School Environmental Science class presentations
 2013-2016 President, Board of Trustees, Montessori School of Corpus Christi
 2012-2013 Board of Trustees, Montessori School of Corpus Christi

HONORS & AWARDS

2019 Research to Application Award, Texas Sea Grant
 2018 Conservationist of the Year Award, Coastal Conservation Association
 2016-2018 Campbell Professorship in Marine Biology, TAMU-CC

- 2014 Higher Education Award, for “dedication to conservation of Coastal Bend bays and estuaries, namely Oso and Baffin Bays, through development of programs designed to assess water quality conditions in these systems”, Coastal Bend Bays Foundation
Kavli Fellow, Kavli Foundation
- 2013 Outstanding Honors Program Faculty Mentor, TAMU-CC
Outstanding Islander, TAMU-CC (April 2013)
- 2006 National Research Council Postdoctoral Fellowship- The University of North Carolina Institute of Marine Sciences & U.S. Environmental Protection Agency at Research Triangle Park (\$100,000+ total over 2 years)
- 2005 Bayley Fellowship for outstanding graduate student, Oregon State University (\$4,000)
Outstanding Student Poster- ASLO Aquatic Sciences Meeting, Salt Lake City
Sigma Xi Grants in Aid of Research (\$550)
- 2004 Sigma Xi Grants in Aid of Research (\$998)
- 2001 National Science Foundation Graduate Research Fellowship (\$121,500 total over 3 years)
NASA Space Grant Graduate Fellowship (\$18,000 total over 2 years)
- 2000 Best Student (grad and undergrad) Oral Presentation- Southeastern Estuarine Research Society, Benthic Ecology Meeting, Wilmington
- 1998 National Science Foundation REU