

MICHAEL S. WETZ

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<https://www.harte.org/research/coastal-ecosystem-processes>

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 **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
2017 **Assistant Department Chair**, Department of Life Sciences, 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 Postdoctoral 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, University of South Carolina

HONORS & AWARDS

2022 Texan By Nature “Conservation Wrangler Award” for the Bringing Baffin Back initiative; see <https://www.tamucc.edu/news/2022/04/040622-hri-bringing-baffin-back-conservation-wrangler.php>
2021 Higher Education Award, Coastal Bend Bays Foundation
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 Lenore 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

PUBLICATIONS (*indicates student as 1st author)

Peer-reviewed manuscripts:

50. *Qiu, Y., J.D. Felix, D. Murgulet, **M.S. Wetz**, and H. Abdulla. 2024. Isotopic compositions of organic and inorganic nitrogen reveal processing and source dynamics at septic influenced and undeveloped estuary sites. *Science of the Total Environment* 925: 171749
49. *Cutajar, J., B. Sterba-Boatwright, **M.S. Wetz**. 2024. Coastal residential canals harbor distinct water quality conditions and phytoplankton community composition. *Estuarine, Coastal and Shelf Science* 296: 108595
48. Beecraft, L., and **M.S. Wetz**. 2023. Temporal variability in water quality and phytoplankton biomass in a low inflow estuary (Baffin Bay, Texas). *Estuaries and Coasts* 46: 2064-2075
47. *Tominack, S., and **M.S. Wetz**. 2023. Variability in phytoplankton biomass and community composition in Corpus Christi Bay, Texas. *Estuaries and Coasts* 46: 2023-2044
46. Hu, X., H. Yao, M.R. McCutcheon, L. Dias, C.J. Staryk, **M.S. Wetz**, and P.A. Montagna. 2022. Aragonite saturation state in estuaries along a climate gradient in the northwestern Gulf of Mexico. *Frontiers in Environmental Science* 10: 951256
45. *Chin, T., L. Beecraft, and **M. Wetz**. 2022. Phytoplankton biomass and community composition in three Texas estuaries differing in freshwater inflow regime. *Estuarine, Coastal and Shelf Science* 277: 108059
44. Yao, H., P.A. Montagna, **M.S. Wetz**, C.J. Staryk, and X. Hu. 2022. Subtropical estuarine carbon budget under various hydrologic extremes and implications on the lateral carbon exchange from tidal wetlands. *Water Research* 217: 118436
43. Patrick, C.J., and 48 others (**Wetz** 45th author). 2022. A general pattern of trade-offs between

- ecosystem resistance and resilience to tropical cyclones. *Science Advances* 8: eabl9155
42. **Wetz, M.S.**, N.C. Powers, J.W. Turner, and Y. Huang. 2022. No widespread signature of the COVID-19 quarantine period on water quality across a spectrum of coastal systems in the United States of America. *Science of the Total Environment* 807: 150825
 41. *Powers, N.C., J. Pinchback, L. Flores, Y. Huang, **M.S. Wetz**, and J.W. Turner. 2021. Long-term water quality analysis reveals correlation between bacterial pollution and sea level rise in the northwestern Gulf of Mexico. *Marine Pollution Bulletin*
<https://doi.org/10.1016/j.marpolbul.2021.112231>
 40. *Cira, E., T.A. Palmer, and **M.S. Wetz**. 2021. Phytoplankton dynamics in a low-inflow estuary (Baffin Bay, Texas) during drought and high-rainfall conditions associated with an El Niño event. *Estuaries and Coasts* 44: 1752-1764
 39. *Walker, L.M., P.A. Montagna, X. Hu, and **M.S. Wetz**. 2020. Timescales and magnitude of water quality change in three Texas estuaries induced by passage of Hurricane Harvey. *Estuaries and Coasts* 44: 960-971
 38. *Tominack, S.A., K.Z. Coffey, D. Yoskowitz, G. Sutton, and **M.S. Wetz**. 2020. An assessment of trends in the frequency and duration of *Karenia brevis* red tide blooms on the South Texas coast (western Gulf of Mexico). *PLoS One* 15: e0239309
 37. 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
 36. 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
 35. 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* 7:26
 34. *Wang, H., X. Hu, **M.S. Wetz**, K.C. Hayes, and K. Lu. 2020. Photomineralization of organic carbon in a eutrophic, semiarid estuary. *Limnology and Oceanography Letters* 5: 246-253
 33. *Bugica, K., B. Sterba-Boatwright, and **M.S. Wetz**. 2020. Water quality trends in Texas estuaries. *Marine Pollution Bulletin* 152: 110903
 32. *Cira, E., and **M.S. Wetz**. 2019. Spatial-temporal distribution of *Aureoumbra lagunensis* (“brown tide”) in Baffin Bay, Texas. *Harmful Algae* 89: 101669
 31. *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
 30. *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
 29. 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
 28. *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
 27. 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
26. *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
 25. **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
 24. *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
 23. **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
 22. 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
 21. *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
 20. **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
 19. 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
 18. *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
 17. **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
 16. 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
 15. **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
 14. *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
 13. 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

12. **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
11. **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
10. **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
9. **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
8. **Wetz, M.S.**, and P.A. Wheeler. 2007. Release of dissolved organic matter by coastal diatoms. *Limnology and Oceanography* 52(2): 798-807
7. **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
6. **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
5. 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
4. **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
3. **Wetz, M.S.**, and P.A. Wheeler. 2004. Response of bacteria to simulated upwelling phytoplankton blooms. *Marine Ecology Progress Series* 272: 49-57
2. **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
1. **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

Book chapters and popular press:

7. **Wetz, M.S.**, L. Beecraft, M. McBride, J.L. Steichen, and A. Quigg. 2025. Nutrient-phytoplankton dynamics in Texas estuaries. In: Montagna, P.A. (ed.). Freshwater inflows to Texas bays and estuaries.
6. Quigg, A., J.L. Steichen, L. Beecraft, and **M.S. Wetz**. 2025. Plankton dynamics in Texas estuaries. In: Montagna, P.A. (ed.). Freshwater inflows to Texas bays and estuaries.
5. **Wetz, M.S.**, R. Frisbie, and J. Mobley. 2024. Vibrio bacteria— A potentially deadly but preventable threat to anglers and beachgoers. Texas Saltwater Fishing Magazine, March 2024 issue, pp. 34-36.
4. Withers, K., **M.S. Wetz**, and P.V. Zimba. 2023. Brown and red tides. In: Withers, K., B.R. Chapman, J.W. Tunnell, and F. W. Judd (eds). The Laguna Madre of Texas and Tamaulipas, 2nd edition. Texas A&M University-Press, pp. 323-327.

3. Tunnell, J.W., K. Withers, E. Smith, S. Murray, **M.S. Wetz**, and B. Ballard. 2023. Conservation issues and recommendations. In: Withers, K., B.R. Chapman, J.W. Tunnell, and F. W. Judd (eds). The Laguna Madre of Texas and Tamaulipas, 2nd edition. Texas A&M University-Press, pp. 363-379.
2. **Wetz, M.S.**, and L. Scott Murray. 2022. Bringing Baffin Back, part 2. Texas Saltwater Fishing Magazine, volume 32, number 5, pp. 28-31.
1. **Wetz, M.S.**, and S. Murray. 2014. Baffin Bay: a Texas treasure in transition. Texas Saltwater Fishing Magazine, volume 24, number 4, pp. 44-47.

FUNDING

Foundations, Endowments and other Donations:

- | | |
|--------------|---|
| 2024 | “Funds for R/V Scott Murray”, <i>awarded</i> by Coastal Conservation Association Texas. \$80,000 |
| 2024-2025 | “Bringing Baffin Back general support”, <i>awarded</i> by Saltwater Fisheries Enhancement Association & Dorrill Foundation. \$20,000. |
| 2024-2025 | “Bringing Baffin Back general support”, <i>awarded</i> by Trull Foundation. \$10,000. |
| 2024-present | “Bringing Baffin Back general support”, <i>awarded</i> by Shield-Ayers Foundation. \$10,000. |
| 2024-present | “Bringing Baffin Back general support”, <i>awarded</i> by H-E-B. \$10,000. |
| 2024-present | “Scott Murray Baffin Bay Endowment”, <i>awarded</i> by private donors. \$32,000 to date. |
| 2023-2024 | “Baffin Bay Environmental Research Traineeship Program”, <i>awarded</i> by Kenedy Memorial Foundation. \$40,000 |
| 2022-2025 | “Baffin Bay water quality study”, <i>awarded</i> by Coastal Conservation Association. \$225,000 (in annual increments of \$75,000) |

External Grants and Contracts:

Current:

- | | |
|-----------|--|
| 2024-2026 | P.I. (w/ Texas State University, Texas A&M Agrilife, Texas Sea Grant, Coastal Bend Council of Governments), “Clean Coast Texas, years 5 and 6”, <i>awarded</i> by Texas General Land Office. \$1,743,950 |
| 2025-2026 | P.I. , “Developing nature-based designs to increase resilience and habitat in the Baffin Bay (Texas) watershed”, <i>awarded</i> by National Fish and Wildlife Foundation National Coastal Resilience Fund. \$197,727. |
| 2024-2026 | P.I. , “Evaluation of phytoplankton population metrics as potentially robust, integrative indicators of environmental flows”, <i>awarded</i> by Texas Water Development Board. \$160,000 |
| 2024-2025 | P.I. , “Baffin Bay signage project”, <i>awarded</i> by Coastal Bend Bays & Estuaries Program. \$22,469 |
| 2024-2025 | P.I. , “Water quality status and trends in the Coastal Bend”, <i>awarded</i> by Coastal Bend Bays & Estuaries Program. \$53,951 |
| 2024-2026 | P.I. , “Advancing harmful algal bloom monitoring efforts on the Texas coast to protect human health and coastal economies”, <i>awarded</i> by Texas OneGulf. \$872,010 |
| 2023-2025 | P.I. , “Baffin Bay water quality study”, <i>awarded</i> by Coastal Bend Bays & Estuaries Program. \$50,000 |

- 2023-2025 **P.I.**, “Nutrient addition bioassays in Nueces River tidal”, *awarded* by Coastal Bend Bays & Estuaries Program. \$45,731
- 2023-2025 **P.I.**, “Landowner outreach in the Baffin Bay watershed”, *awarded* by Coastal Bend Bays & Estuaries Program. \$7,000
- 2023-2025 **Co-P.I.** (with L. Gregory-TAMU), “Petronila and San Fernando Creeks WPP implementation”, *awarded* by Texas State Soil & Water Conservation Board. \$217,210.
- 2023-2026 **P.I.**, “Assessing the risk to ecosystem health from increasing nitrogen and phosphorus levels in Lavaca Bay”, *awarded* by Matagorda Bay Mitigation Trust. \$454,162
- 2022-2025 **Co-P.I.** (w/ Jeff Turner, 5 others), “Improving community health: microbial source tracking and quantitative microbial risk assessment on the Texas coast”, *awarded* by U.S. EPA Gulf of Mexico Program. \$35,344
- 2022-2025 **P.I.**, “A study of the Laguna Salada ecosystem to support Baffin Bay restoration”, *awarded* by NOAA Coastal Management Program. \$98,080
- 2021-2025 **P.I.**, “A research and monitoring program to mitigate the impact of harmful algal blooms on the Matagorda Bay and San Antonio Bay ecosystems”, *awarded* by Matagorda Bay Mitigation Trust. \$478,822
- Expired:
- 2022-2024 **Co-P.I.** (with L. Gregory-TAMU), “Texas bacterial source tracking study”, *awarded* by Texas State Soil & Water Conservation Board. \$35,344.
- 2023-2024 **P.I.**, “Expansion of pro-active monitoring capacity for harmful algal blooms”, *awarded* by Coastal Bend Bays & Estuaries Program. \$40,000
- 2021-2024 **P.I.** (w/ Erin Lipp- UGA), “Influence of Saharan dust deposition on the growth of harmful marine bacteria and algae in Texas coastal waters”, *awarded* by Texas Sea Grant. \$136,550
- 2021-2024 **P.I.** (w/ Jenni Pollack-HRI), “A comprehensive assessment of Texas coastal ecosystems & economies to inform ecological restoration”, *awarded* by NOAA Coastal Management Program. \$453,385
- 2018-2023 **P.I.**, “Baffin Bay water quality study”, *awarded* by Celanese Corporation. \$300,000 (in annual increments of \$50,000)
- 2021-2023 **Co-P.I.** (w/ Paul Montagna-HRI, 12 others), “Freshwater inflows to Texas bays and estuaries”, *awarded* by NOAA Coastal Management Program. \$57,270 to Wetz
- 2020-2023 **P.I.** (w/ Dorina Murgulet, David Felix, Mohamed Ahmed, Hussain Abdulla-COSE), “An integrated assessment of nutrient loadings to Baffin Bay, Texas”, *awarded* by NOAA Coastal Management Program. \$1,189,413 (\$367,350 to Wetz)
- 2019-2023 **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)
- 2021-2022 **P.I.**, “Impact of the 2021 freeze event on Baffin Bay water quality”, *awarded* by Coastal Bend Bays & Estuaries Program. \$23,265
- 2020-2022 **Co-P.I.** (w/ Lucas Gregory-TAMU), “Petronila and San Fernando Creek

- Watershed Protection Plan Development”, *awarded* by Texas State Soil & Water Conservation Board. \$50,537 to Wetz
- 2019-2022 **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
- 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 Nonpoint Source Pollution Program. \$20,000 (\$2,007 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
- 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, Xinping 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, Xinping 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/ Xinping 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/ Xinping 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, Xinping 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/ Jenni 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:

| | | | |
|------|-------------------|------------------------------|----------------------|
| 2023 | BIOL4323 | Global Change Ecology | 18 undergraduates |
| 2021 | BIOL4323 | Global Change Ecology | 21 undergraduates |
| 2020 | MARB6590/CMSS6323 | Global Change | 8 graduate students |
| 2018 | *MARB6340 | Marine Organisms & Processes | 33 graduate students |
| 2017 | MARB6590/CMSS6359 | Marine Ecosystem Dynamics | 9 graduate students |

| | | | |
|------|----------------------|------------------------------|----------------------|
| 2016 | BIOL4323 | Global Change Ecology | 30 undergraduates |
| | MARB6590/CMSS6359 | Marine Ecosystem Dynamics | 12 graduate students |
| | BIOL4323 | Global Change Ecology | 24 undergraduates |
| 2015 | MARB6590/CMSS6359 | Marine Ecosystem Dynamics | 7 graduate students |
| | BIOL4323 | Global Change Ecology | 14 undergraduates |
| 2014 | MARB6590/CMSS6359 | Marine Ecosystem Dynamics | 13 graduate students |
| | BIOL4590 | Global Change Ecology | 6 undergraduates |
| 2013 | MARB6590/CMSS6359 | Marine Ecosystem Dynamics | 8 graduate students |
| | BIOL4590 | Global Change Ecology | 14 undergraduates |
| | MARB/CMSS6590 | Global Change | 12 graduate students |
| | | Honors Project of Excellence | 1 undergraduate |
| 2012 | MARB6590/CMSS 6359 | Marine Ecosystem Dynamics | 12 graduate students |
| | *BIOL4590 | Global Change Ecology | 8 undergraduates |
| | MARB/CMSS6590 | Global Change | 5 graduate students |
| 2011 | **MARB6590/CMSS 6359 | Marine Ecosystem Dynamics | 18 graduate students |
| | BIOL3428 | Principles of Ecology | 47 undergraduates |
| | *MARB6590 | Global Change | 17 graduate students |

Instructor of record at Florida State University for:

| | | | |
|------|---------------|------------------|--|
| 2009 | *OCE4930/5930 | Plankton Ecology | 18 graduate students 6 undergraduates |
|------|---------------|------------------|--|

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

Postdoctoral Scholar Mentoring:

| | |
|--------------|---|
| 2024-present | Dr. Mintu Chowdhury |
| 2021-2023 | Dr. Amie West (co-mentored with Dr. Jenni Pollack) |
| 2021-2024 | Dr. Sankar Sasidharan |
| 2021-2023 | Dr. Laura Beecraft (transitioned to Assistant Research Scientist) |

Graduate Mentoring:

Doctor of Philosophy – Dissertation Advisor

| | |
|--------------|--|
| 2022-present | Susana Gonzalez, TAMU-CC Coastal Marine System Science |
| 2016-2021 | Dr. Sarah Tominack, TAMU-CC Marine Biology “Physical, chemical and biological factors influencing <i>Karenia brevis</i> bloom dynamics in a South Texas bay (Corpus Christi Bay)” |
| 2013-2020 | Dr. Emily Cira, TAMU-CC Coastal Marine System Science |

“Phytoplankton dynamics in a eutrophying South Texas estuary (Baffin Bay)”

2009-2017

Dr. Natalie Geyer, FSU Oceanography

“Spatial and temporal distribution of phytoplankton in a river-dominated estuary, Apalachicola Bay, Florida”

Master of Science – Thesis Advisor

2024-present

Miles Jordan, TAMU-CC Marine Biology

Kalie Tovar, TAMU-CC Coastal Marine System Science

2022-2024

Lucero Barraza, TAMU-CC Coastal Marine System Science

2022-2023

Mary Kramer, TAMU-CC Environmental Science

2020-2022

Jordana Cutajar, TAMU-CC Coastal Marine System Science

Molly McBride, TAMU-CC Marine Biology

2018-2020

Tiffany Chin, TAMU-CC Marine Biology

2017-2022

Lily Walker, TAMU-CC Coastal Marine System Science

2014-2018

Kelsey Fisher, TAMU-CC Biology

2014-2020

Kenneth Hayes, TAMU-CC Environmental Science

2011-2013

Emily Cira, TAMU-CC Marine Biology

2009-2012

Kristina Welch, FSU Oceanography

Graduate Committees

Current

Ph.D. Eva Jundt, TAMU-CC Coastal and Marine System Science

Maike Holleck, TAMU-CC Counselor Education

Past

Ph.D. Paxton Bachand, TAMU-CC Marine Biology

Nigel Lascelles, TAMU-CC Coastal Marine System Science

Jalen Evans, TAMUCC Education

Anthony Cox, TAMU-CC Coastal Marine System Science

Yixi Qiu, TAMU-CC Coastal Marine System Science

Kylee Lewis, TAMU-CC Environmental Science

Magkena Szemak, TAMU-CC Coastal Marine System Science

Mark McKay, TAMU-CC Coastal Marine System Science

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. Nathan Greenslit, UGA Marine Science

Erin Taylor, TAMU-CC Coastal Marine System Science

Danielle Marshall, TAMU-CC Environmental Science
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 & High School Research Project Mentor:

2024-present Camran Cupp (TAMU-CC)
Annie Chrane (TAMU-CC)
2023-present Nancy Ballard (TAMU-CC)
2023-2024 Kalie Tovar (TAMU-CC)
2023 Cindy Vaquero (TAMU-CC)
Isabella Cevallos (TAMU-CC)
2021-2022 Felipe Urrutia (TAMU-CC)
2021 Isabelle Cummings (TAMU-CC)
2020 Vanessa Navarro (TAMU-CC)
2018-2019 Amya Reynoso (Riviera High School)
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)
Lily Walker (TAMU-CC)
Victor Batres (TAMU-CC)
2013 Michael Bailey (TAMU-CC)
Toni Gee (TAMU-CC)
Abigail Hobbs (Oklahoma State University)
Ben Smith (TAMU-CC)
Caitlyn Mitchell (TAMU-CC)
Charis Kerher (TAMU-CC)
2012-2013 Diana Sokoly (TAMU-CC)
2012 Jennifer Feinstein (Chapman University)
2011-2014 Kelsey Fisher (TAMU-CC)
2011-2013 Lynn Price (TAMU-CC)
2010 Jeff Browne (FSU)
Alex Davis (FSU)
Emily Hutchinson (FSU)
2007 Meredith Robbins (UNC)

PRESENTATIONS (since 2016; *Student as presenter)

Invited seminars (since 2016):

- Wetz, M.**, and L. Beecraft. 2024. Harmful algal blooms on the Texas coast: why do we need routine monitoring? Texas Toxic Substances Working Group monthly meeting.
- Wetz, M.** 2023. Bringing Baffin Back: Restoring and protecting a Texas treasure. Texas Parks & Wildlife Department Coastal Resource Advisory Council annual meeting.
- Wetz, M.** 2023. Bringing Baffin Back: Restoring and protecting a Texas treasure. Texas Watershed Coordinator's conference.
- Wetz, M.** 2023. Baffin Bay – A Texas treasure in transition. Texas Watershed Coordinator's conference.
- Wetz, M.** 2023. Human and climate-driven water quality challenges affecting the Texas coast. University of Florida Wetlands and Watersheds seminar series.
- Wetz, M.** 2022. Water quality status and trends on the Texas coast. Texas Seagrass Working Group.
- Wetz, M.** 2022. Human and climate-driven water quality challenges affecting the Texas coast. North Carolina State University Department of Marine, Earth and Atmospheric Sciences.
- Wetz, M.** 2021. Challenges affecting the health of the Texas Laguna Madre ecosystem. Binational workshop on conservation of the Laguna Madre.
- Wetz, M.** 2021. Human and climate-driven water quality challenges affecting the Texas coast. Clean Coast Texas, October Lunch-and-Learn series
- Wetz, M.** 2021. Baffin Bay – a Texas treasure in transition. Gulf of Mexico Alliance Mid-Year Meeting.
- Wetz, M.** 2021. Living on the edge: the need for long-term adaptive management strategies to lessen the impact of climatic and anthropogenic changes on low inflow estuaries. Speaker & panelist, special session “Estuaries as Sentinels for Climate Change”, Ecological Society of America Annual Meeting.
- Wetz, M.** 2021. Human and climate-drive water quality challenges affecting the Texas coast. Invited speaker, Oregon State University CEOAS seminar series.
- Wetz, M.** 2019. Lessons learned from a volunteer water quality study in Baffin Bay, Texas. *Plenary speaker*, Coastal & Estuarine Research Federation Meeting, Mobile, AL.
- Wetz, M.** 2019. The path to restoring Baffin Bay, the “jewel” of the Texas coast. Texas Sea Grant Program Review

Scientific conferences:

- *Gonzalez, S., **M. Wetz**, and L. Beecraft. 2024. Defining the likely distribution of select harmful algal bloom-forming species in coastal Texas using habitat suitability and stacked modeling. National Harmful Algal Bloom conference, Portland, ME
- Drake, E., N. Greenslit, S. Sasidharan, F. Urrutia, **M. Wetz**, and E. Lipp. 2024. Characterization of common pathogenic *Vibrio* species isolated followed Saharan dust events. ASM Microbe 2024 conference, Atlanta, GA.
- Greenslit, N., S. Sasidharan, F. Urrutia, **M. Wetz**, and E. Lipp. 2024. The interacting effects of local conditions and Saharan dust deposition on daily *Vibrio* population dynamics in nearshore coastal waters. ASM Microbe 2024 conference, Atlanta, GA.
- Wetz, M.**, and J. Pollack. 2024. Texas Coast Ecosystem Health Report Cards: A quantitative coastal ecosystem health report card to guide prioritization of management and conservation

- actions on the Texas coast. GOMCON conference, Tampa, FL.
- Wetz, M.**, and S. Sasidharan. 2024. Human and climate-driven water quality challenges affecting the Texas coast. GOMCON conference, Tampa, FL.
- Sasidharan, S., and **M. Wetz**. 2024. Drought and flood impacts on the organic matter dynamics of a low inflow estuary (Baffin Bay, Texas). Ocean Sciences conference, New Orleans, LA.
- Beecraft, L., D. Burch, K. Hayes, and **M. Wetz**. 2023. High-resolution sampling of water quality and phytoplankton dynamics in two shallow Texas estuaries. Coastal & Estuarine Research Federation Meeting, Portland, OR.
- *Barraza Gomez, L., and **M. Wetz**. 2023. Nutrient and phytoplankton dynamics in a tributary of Baffin Bay, TX: relevance for *Aureoumbra lagunensis* blooms. Coastal & Estuarine Research Federation Meeting, Portland, OR.
- *Urrutia, F., S. Sasidharan, L. Beecraft, D. Burch, and **M. Wetz**. 2022. Variability in phytoplankton biomass on daily timescales along an estuary-coast continuum. Texas Bays & Estuaries Meeting. Port Aransas, TX.
- Sasidharan, S., and **M. Wetz**. 2022. The impact of drought and floods on biogeochemical dynamics in a lagoonal, low inflow estuary (Baffin Bay, Texas). Ocean Carbon Biogeochemistry Scoping Workshop. Raleigh, NC.
- Beecraft, L., and **M. Wetz**. 2022. Episodic inflow and salinity changes produce distinct bloom communities in a low-inflow estuary (Baffin Bay, Texas). 11th U.S. Symposium on Harmful Algae, in Albany, NY.
- *Cutajar, J., and **M. Wetz**. 2021. Spatial-temporal variability in phytoplankton biomass and community composition in Texas residential canals. Coastal & Estuarine Research Federation Meeting (virtual).
- *McBride, M., and **M. Wetz**. 2021. Influence of Colorado River discharge variability on phytoplankton communities in Matagorda Bay, Texas. Coastal & Estuarine Research Federation Meeting (virtual).
- Wetz, M.** 2021. Phytoplankton blooms during wet and dry conditions – Baffin Bay (Texas) can't catch a break. Coastal & Estuarine Research Federation Meeting (virtual).
- *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.

Public seminars (since 2016): *(does not include multiple presentations to the Kleberg County Commissioners during that timeframe)*

Wetz, M. 2024. Clean Coast Texas overview. Baffin Bay Stakeholder Group meeting.

- Beecraft, L., and **M. Wetz**. 2024. Harmful algal bloom monitoring on the Texas coast. Texas State Aquarium harmful algal bloom event response workshop.
- Wetz, M.** 2024. Bringing Baffin Back: Restoring and protecting a Texas treasure. Coastal Conservation Association-Brush Country annual meeting.
- Wetz, M.** 2023. Bringing Baffin Back as a model for addressing Nueces River concerns. Nueces Tidal Stakeholder Group.
- Beecraft, L., and **M. Wetz**. 2023. Assessing the risk to ecosystem health from nutrient pollution in Lavaca Bay. Lavaca Bay Foundation.
- Wetz, M.** 2022. Bringing Baffin Back: Restoring and protecting a Texas treasure. Texan By Nature Conservation Summit.
- Wetz, M.** 2022. Bringing Baffin Back: Restoring and protecting a Texas treasure. Kenedy Foundation.
- Wetz, M.** 2022. Bringing Baffin Back: Restoring and protecting a Texas treasure. Corpus Christi Rotary Club.
- Wetz, M.**, and K. Stanzel. 2022. Bringing Baffin Back: Restoring and protecting a Texas treasure. Baffin Bay Symposium
- Wetz, M.** 2022. Water quality challenges affecting Baffin Bay... and how we start to fix them. Baffin Bay Symposium
- Wetz, M.** 2021. Human and climate-driven water quality challenges affecting the Texas coast. Friday Morning Club, Corpus Christi, Texas.
- Wetz, M.** 2021. Did the COVID-19 lockdown lead to water quality improvements in Texas and elsewhere? Oso Bay Wildlife Refuge, Corpus Christi, Texas.
- Wetz, M.**, and A. West. 2021. Human and climate-driven water quality challenges affecting the Texas coast. Lavaca Bay Foundation, Port Lavaca, Texas.
- Wetz, M.** 2020. The path to restoring Baffin Bay, a Texas icon. King Ranch, Kingsville, Texas.
- Wetz, M.** 2020. The path to restoring Baffin Bay, a Texas icon. Baffin Bay Stakeholder Group, Kingsville, Texas.
- Wetz, M.** 2019. Water quality issues in Baffin Bay, and why it should matter to you. Riviera High School Environmental Science class, Riviera, Texas.
- Wetz, M.** 2019. The path to restoring Baffin Bay, a Texas icon. Coastal Bend Bays Foundation's Coastal Issues Forum, Corpus Christi, Texas.
- Wetz, M.** 2019. The path to restoring Baffin Bay, a Texas icon. Celanese Corporation, Bishop, Texas.
- Wetz, M.** 2019. The path to restoring Baffin Bay, a Texas icon. Baffin Bay Stakeholder Group, Corpus Christi, Texas.
- Wetz, M.** 2019. The path to restoring Baffin Bay, a Texas icon. Texas Commission for Environmental Quality, Austin, Texas.
- Wetz, M.** 2017. Synthesis of water quality studies in Baffin Bay with a view towards solutions. Celanese Corporation, Bishop, Texas.
- Wetz, M.** 2017. Synthesis of water quality studies in Baffin Bay with a view towards solutions. Coastal Conservation Association-Annianis Chapter, Corpus Christi, Texas.
- Wetz, M.** 2017. Synthesis of water quality studies in Baffin Bay with a view towards solutions. Natural Resources Conservation Service, Robstown, Texas.
- Wetz, M.** 2016. Synthesis of water quality studies in Baffin Bay with a view towards solutions. Baffin Bay Symposium, Corpus Christi, Texas.

Podcasts:

Wetz, M. “Vibrio”; The Gulf Stream podcast; aired August, 2024;

https://www.youtube.com/watch?v=iKfzHf_US6I&list=PLMWR-V79lCtbkqsVPZLt9lUs9Hpo7ON7&index=3

Wetz, M. “Baffin Bay Oral History project”; The Gulf podcast; aired 2023;

<https://www.tamucc.edu/library/exhibits/s/thegulf/page/baffin>

Wetz, M. “Bringing Baffin Back”; A Talk on the Wild Side podcast; aired on July 19th, 2022; <https://www.ckwri.tamuk.edu/media/talk-wild-side-podcast>

Wetz, M. “Bringing Baffin Back”; CCA Coastal Advocacy Adventures podcast; aired on May 17th, 2022; <https://ccatexas.org/coastal-advocacy-adventures-podcast-episode-48-bringing-baffin-back/>

Panelist for public events:

2023 Screening of “Deep in the Heart”, Tobin Center for Performing Arts, San Antonio, TX (~500 middle school children in attendance)

2016 BLUE On Tour Film Festival

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

PRINT AND TELEVISION COVERAGE:

2024 “A ripple of hope”; Kingsville Monthly; December 2024 issue; <https://kingsvillemonthly.com/>

“Have you been in salt water lately? What you need to know about Vibrio; KRIS-TV (Corpus Christi); aired August 9th, 2024; <https://www.kristv.com/news/local-news/in-your-neighborhood/corpus-christi/padre-island/have-you-been-in-salt-water-lately-what-you-need-to-know-about-vibrio>

2023 “Baffin Bay on the brink”; Texas Wildlife magazine; June 2023 issue

“High levels of bacteria detected at Texas beaches”; Spectrum News, July 10th, 2023; <https://spectrumlocalnews.com/tx/south-texas-el-paso/news/2023/07/10/high-levels-of-bacteria-detected-at-texas-beaches->

“Red tide concerns emerge along the Texas Gulf Coast, expert warns of Saharan dust impact”; KIII-TV (Corpus Christi); aired September 26th, 2023; <https://www.kiiitv.com/article/news/local/red-tide-concerns-emerge-along-the-texas-gulf-coast-expert-warns-of-saharan-dust-impact/503-d5891762-ddb0-4dc5-8c60-99d3083ad8e4>

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2014

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“Changes in fish population, algae cause study of Baffin Bay water quality”; Corpus Christi Caller Times; March 6th, 2013 edition;
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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/>

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“Potentially toxic microorganism found in Oso Bay”; KORO-TV (Corpus Christi); aired on evening newscast, June 20th, 2012;
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“Texas A&M University-Corpus Christi students identify potentially toxic plankton in Oso Bay”; Corpus Christi Caller Times; June 14th, 2012 edition;
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“Texas A&M University-Corpus Christi professor awarded \$70K grant for Oso Bay water quality study”; Corpus Christi Caller Times; April 30th, 2012 edition;
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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 ACTIVITIES (external)

2023-present Vice Chair, Bays Council, Coastal Bend Bays & Estuaries Program
2023-2024 Session Co-Chair, 2024 GOMCON conference
2023-2024 Member, Program Committee, 2024 GOMCON conference
2023-present Associate Editor, *Estuaries and Coasts*
2023 Panelist, Texas Chapter of the American Fisheries Society annual meeting
2023 Promotion & tenure reviewer for Oregon State University
2022 M.S. thesis reviewer for Nelson Mandela University (South Africa)
2022 Promotion & tenure reviewer for North Carolina State University, University of South Carolina
2021-2022 Co-organizer, 2022 Baffin Bay Research Symposium
2021-2024 Member, Diversity, Equity & Inclusion committee, National Association of Marine Labs
2021-2023 Guest Editor & Lead Organizer (w/ colleagues in France, South Africa), Special issue on “Ecology, Stressors, and Management of Low Inflow Estuaries”, *Estuaries and Coasts*
2021, 2022 Reviewer, Texas Sea Grant Knauss Fellowship applications
2020-2021 Session Co-Chair, Coastal & Estuarine Research Federation Meeting (virtual)
2020 Panelist, Gulf of Mexico Alliance Workshop on Harmful Algal Blooms
2020-2021 Review Editor, *Frontiers in Microbiology*
2020-2021 Review Editor, *Frontiers in Marine Science*
2019-2021 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/Alabama RESTORE Program
- 2018 Member, Natural Resources Specialist Search Committee, Texas Sea Grant
- 2018-2022 Associate Editor, *Gulf & Caribbean Research*
- 2018 Panelist, NOAA Coastal Hypoxia Program
- 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
- 2017-2019 Nueces Estuary Advisory Council
- 2016-present Member, Texas Harmful Algal Bloom Task Force
- 2013-2016 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)

Manuscript reviewer (average of 10 manuscript reviews per year) 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

Elementa

Environmental Science & Technology

EPA
Estuaries and Coasts
Estuarine Coastal and Shelf Science
Frontiers in Marine Science
Frontiers in Microbiology
Gulf and Caribbean Research
Harmful Algae
Hydrobiologia
The ISME Journal
Journal of Coastal Research
Journal of Experimental Marine Biology & Ecology
Journal of Geophysical Research-Biogeosciences
Journal of Geophysical Research-Oceans
Journal of Phycology
Journal of Sea Research
Limnologica
Limnology and Oceanography
Limnology and Oceanography-Methods
Marine Chemistry
Marine and Freshwater Research
Marine Ecology Progress Series
Marine Environmental Research
Marine Pollution Bulletin
Marine Technology Society
National Park Service
PLOS One
Polar Biology
Progress in Oceanography
Science of the Total Environment

Proposal reviewer and/or panelist for:

Mississippi/Alabama 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 EPSCOR
NSF Biological Oceanography
NSF Geography and Spatial Sciences
NSF Ocean Acidification
New York Sea Grant
Texas Academy of Sciences
Texas OneGulf
Texas Sea Grant (mail reviews of 2019, 2021, 2022 Grants-in-Aid proposals & 2021, 2022 Knauss Fellow applications)
Woods Hole Sea Grant

PROFESSIONAL ACTIVITIES (internal)

University:

2019-2023; Council of Principal Investigators and Research Administrators
2015-2018
2020-2023 Chair, Graduate Student Recruitment & Retention Committee, Council of
Principal Investigators and Research Administrators
2015-2016 IDC Policy Working Group
2011-2012 Emerging Research Institute Committee

College:

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

Institute, Department & Programmatic:

2021-2022 Member, HRI Policy & Law Endowed Chair Search Committee
2021-present HRI representative, National Association of Marine Labs
2020-2021 Marine Microbial Ecologist Search Committee
2020-2022 Chair, Department of Life Sciences Promotion & Tenure Committee
2019-2020 Chair, HRI Ecosystem Science & Modeling Search Committee
2018-2019 Chair, Marine Biologist Search Committee
2018 Member, Teaching Evaluation Committee
2017-present Student Advisor, Center for Coastal & Marine Ecosystems Program
2017 Chair, Functional Anatomy Search Committee
2017 Touch-of-Class, Island Days
2016-2018 Chair, Marine Biology IDP Curriculum Committee
2015-2016 Chair, Department of Life Sciences Department Chair Search
2014-present Department of Life Sciences Promotion & Tenure Committee
2014-2015 Marine Chemist Search Committee
2014-2015 Department of Life Sciences Department Chair Search Committee
2014-2015 Chair, Coastal Watershed Biologist Search Committee
2013-2017 Coordinator, Marine Biology Graduate program
2013-2014 Chair, Marine Microbial Ecologist Search Committee
2012-2013 Co-Organizer, Coastal Marine System Science program website development
2012 Co-Organizer, System Science Day, Coastal Marine System Science program
2012 Presenter, Touch-of-Class & Island Days
2012 Organizer, Public open house tours of R/V Falkor, ~250 visitors
2012-present Student Advisor, Louis Stokes Alliance for Minority Participation
2012-2013 Marine Microbial Ecologist Search Committee
2012-2019 Membership Committee, Coastal Marine System Science program
2011-2017 Recruitment Committee, Coastal Marine System Science program
2012 Coral Reef Ecologist Search Committee
2011-2012 Marine Molecular Biologist Search Committee
2011-present Curriculum Committee, Coastal Marine System Science program

2011-2020 CCA Fellowship Committee
2011 Representative, Coastal Marine System Science program, Graduate School Fair
2010 Representative, Marine Biology program, Island Days
2010 Representative, Department of Life Sciences, Graduate School Fair
2010-2011 Marine Molecular Biologist Search Committee
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

2024 Volunteer, Watersheds outreach at 2024 TAMU-CC Shark Week
2023-present Co-organizer, Exploring Baffin Bay day camp in partnership with Texas Brigades
2018 Organized a series of presentations to Riviera High School Aquatic Environmental Science class
2016 Organized the Baffin Bay Research Symposium
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