

## MICHAEL S. WETZ

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Department of Life Sciences  
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<https://www.harte.org/research/coastal-ecosystem-processes>

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### EDUCATION

<b>Institution:</b>	<b>Degree:</b>	<b>Date:</b>	<b>Field of Study:</b>
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

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 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 1<sup>st</sup> author)**

### **Manuscripts in review:**

- Qiu, Y., J.D. Felix, D. Murgulet, **M.S. Wetz**, and H. Abdulla. Isotopic compositions of organic and inorganic nitrogen reveal processing and source dynamics at septic influenced and undeveloped estuary sites. Submitted to *Environmental Science & Technology*
- \*Cutajar, J., B. Sterba-Boatwright, **M.S. Wetz**. Coastal residential canals harbor distinct water quality conditions and phytoplankton community composition. Submitted to *Estuarine, Coastal and Shelf Science*

### **Peer-reviewed manuscripts:**

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** 45<sup>th</sup> 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* <https://doi.org/10.1007/s12237-021-00904-7>
  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 34<sup>th</sup> 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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:**

6. **Wetz, M.S.**, L. Beecraft, M. McBride, J.L. Steichen, and A. Quigg. In press. Nutrient-phytoplankton dynamics in Texas estuaries. In: Montagna, P.A. (ed.). Freshwater inflows to Texas bays and estuaries.
5. Quigg, A., J.L. Steichen, L. Beecraft, and **M.S. Wetz**. In press. Plankton dynamics in Texas estuaries. In: Montagna, P.A. (ed.). Freshwater inflows to Texas bays and estuaries.
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, 2<sup>nd</sup> 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.

## GRANT AND CONTRACT FUNDING

### External Funding:

#### Current:

- |           |   |
|-----------|---|
| 2023-2025 | <b>P.I.</b> , “Landowner outreach in the Baffin Bay watershed”, <i>awarded</i> by Coastal Bend Bays & Estuaries Program. \$7,000  |
| 2023-2024 | <b>P.I.</b> , “Expansion of pro-active monitoring capacity for harmful algal blooms”, <i>awarded</i> by Coastal Bend Bays & Estuaries Program. \$40,000   |
| 2023-2025 | <b>Co-P.I.</b> (with L. Gregory-TAMU), “Petronila and San Fernando Creeks WPP implementation”, <i>awarded</i> by Texas State Soil & Water Conservation Board. \$217,210.  |
| 2022-2024 | <b>Co-P.I.</b> (with L. Gregory-TAMU), “Texas bacterial source tracking study”, <i>awarded</i> by Texas State Soil & Water Conservation Board. \$35,344.  |
| 2023-2026 | <b>P.I.</b> , “Assessing the risk to ecosystem health from increasing nitrogen and phosphorus levels in Lavaca Bay”, <i>awarded</i> by Matagorda Bay Mitigation Trust. \$454,162  |
| 2022-2024 | <b>Co-P.I.</b> (w/ Jeff Turner, 5 others), “Improving community health: microbial source tracking and quantitative microbial risk assessment on the Texas coast”, <i>awarded</i> by U.S. EPA Gulf of Mexico Program. \$35,344 |
| 2022-2024 | <b>P.I.</b> , “A study of the Laguna Madre ecosystem to support Baffin Bay restoration”, <i>awarded</i> by NOAA Coastal Management Program. \$98,080  |
| 2022-2025 | <b>P.I.</b> , “Baffin Bay water quality study”, <i>awarded</i> by Coastal Conservation Association. \$225,000 (in annual increments of \$75,000)  |
| 2021-2024 | <b>P.I.</b> (w/ Erin Lipp- UGA), “Influence of Saharan dust deposition on the growth of harmful marine bacteria and algae in Texas coastal waters”, <i>awarded</i> by Texas Sea Grant. \$136,550                              |
| 2021-2024 | <b>P.I.</b> , “A research and monitoring program to mitigate the impact of harmful algal blooms on the Matagorda Bay and San Antonio Bay ecosystems”, <i>awarded</i> by Matagorda Bay Mitigation Trust. \$478,822             |
| 2021-2024 | <b>P.I.</b> (w/ Jenni Pollack-HRI), “A comprehensive assessment of Texas coastal ecosystems & economies to inform ecological restoration”, <i>awarded</i> by NOAA Coastal Management Program. \$453,385                       |
| 2023-2024 | <b>P.I.</b> , “Baffin Bay water quality study”, <i>awarded</i> by Celanese Corporation. \$25,000 (in semiannual increments of \$25,000)   |

#### Expired:

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| 2018-2023 | <b>P.I.</b> , “Baffin Bay water quality study”, <i>awarded</i> by Celanese Corporation. \$275,000 (in semiannual increments of \$25,000) |
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- 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, 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/ 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 CO<sub>2</sub> 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 students
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
	BIOL4323	Global Change Ecology	30 undergraduates
2016	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
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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

### Postdoctoral Scholar Mentoring:

2021-2023	Dr. Amie West (co-mentored with Dr. Jenni Pollack)
2021-present	Dr. Sankar Sasidharan
2021-present	Dr. Laura Beecraft

### 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 <i>“Physical, chemical and biological factors influencing Karenia brevis bloom dynamics in a South Texas bay (Corpus Christi Bay)”</i>
2013-2020	Dr. Emily Cira, TAMU-CC Coastal Marine System Science <i>“Phytoplankton dynamics in a eutrophying South Texas estuary (Baffin Bay)”</i>
2009-2017	Dr. Natalie Geyer, FSU Oceanography <i>“Spatial and temporal distribution of phytoplankton in a river-dominated estuary, Apalachicola Bay, Florida”</i>

#### Master of Science – Thesis Advisor

2022-present	Lucero Gomez, 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.	Paxton Bachand, TAMU-CC Marine Biology
		Nigel Lascelles, TAMU-CC Coastal Marine System Science
	M.S.	Nathan Greenslit, UGA Marine Science
Past	Ph.D.	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. 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:**

2023-present Isabella Cevallos (TAMU-CC)  
 Nancy Ballard (TAMU-CC)  
 2023 Cindy Vaquero (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.** 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:**

- 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 CO<sub>2</sub> 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.** 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.** "Bringing Baffin Back"; A Talk on the Wild Side podcast; aired on July 19<sup>th</sup>, 2022; <https://www.ckwri.tamuk.edu/media/talk-wild-side-podcast>
- Wetz, M.** "Bringing Baffin Back"; CCA Coastal Advocacy Adventures podcast; aired on May 17<sup>th</sup>, 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:**

- 2023 "Baffin Bay on the brink"; Texas Wildlife magazine; June 2023 issue



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

“Red tide concerns emerger along the Texas Gulf Coast, expert warns of Saharan dust impact”; KIII-TV (Corpus Christi); aired September 26<sup>th</sup>, 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>

2022

“Bring Baffin Back: the plan to restore Baffin Bay water quality”; Kingsville Record, June 16<sup>th</sup>, 2022; [http://www.kingsvillerecord.com/news/bring-baffin-back-the-plan-to-restore-baffin-bay-water-quality/article\\_fec3dc62-eceb-11ec-b474-c3b8ad259222.html](http://www.kingsvillerecord.com/news/bring-baffin-back-the-plan-to-restore-baffin-bay-water-quality/article_fec3dc62-eceb-11ec-b474-c3b8ad259222.html)

“Researchers at TAMU-CC closely monitoring vibrio as result of incoming Saharan dust”; KIII-TV (Corpus Christi); aired May 19<sup>th</sup>, 2022; <https://www.kiiitv.com/article/news/local/researchers-at-tamu-cc-closely-monitoring-vibrio/503-7121c8fb-cf12-4ead-8431-76ad431764b1>

“Conservation project underway to restore ecosystem of Baffin Bay”; KRIS-TV (Corpus Christi); aired April 24<sup>th</sup>, 2022; <https://www.kristv.com/news/local-news/conservation-project-underway-to-restore-ecosystem-of-baffin-bay>

“Texas beaches may be filthier than we realize”; Texas Monthly; published April 23<sup>rd</sup>, 2022; <https://www.texasmonthly.com/news-politics/texas-beaches-filthy-feces-testing/>

“Coastal Bend program seeks to address water pollution in area bays”; KIII-TV (Corpus Christi); aired January 14<sup>th</sup>, 2022; <https://www.kiiitv.com/article/news/local/coastal-bend-program-seeks-to-address-water-pollution-in-area-bays/503-285ee531-fca5-4f4a-9837-c7213d794961>

2021

“Study: Was nature really healing during the COVID-19 quarantine?”; KRIS-TV (Corpus Christi); aired November 2<sup>nd</sup>, 2021; <https://www.kristv.com/news/local-news/study-was-nature-really-healing-during-the-covid-19-quarantine>

“Upstream actions have downstream effects”; Texas Wildlife Magazine; August 2021 issue

“Texas Dead Zones”; Texas Parks & Wildlife Magazine; July 2021 issue; [https://tpwmagazine.com/archive/2021/jul/ed\\_3\\_deadzones/index.phtml](https://tpwmagazine.com/archive/2021/jul/ed_3_deadzones/index.phtml)

“Coastal Bend sees oyster farming as solution to Texas oyster population decline”; Corpus Christi Caller Times; May 29<sup>th</sup>, 2021; <https://www.caller.com/story/news/2021/05/29/coastal-bend-sees-solution-oyster->

[decline-texas/5134104001/](https://www.kristv.com/news/local-news/decline-texas/5134104001/)

- 2020 “Study shows Gulf salinity increasing red tide occurrence”; The News of San Patricio; October 19<sup>th</sup>, 2020; [https://www.mysoutex.com/san\\_patricio\\_county/news/study-shows-gulf-salinity-increasing-red-tide-occurrence/article\\_bd5c9146-1214-11eb-bf8d-ff696476bac8.html](https://www.mysoutex.com/san_patricio_county/news/study-shows-gulf-salinity-increasing-red-tide-occurrence/article_bd5c9146-1214-11eb-bf8d-ff696476bac8.html)
- “Harte Research Institute study finds Coastal Bend red tides increasing”; KRIS-TV (Corpus Christi); aired September 23<sup>rd</sup>, 2020; <https://www.kristv.com/news/local-news/harte-research-institute-study-finds-coastal-bend-red-tides-increasing>
- “Researchers examine pandemic's impact on Texas coastal waters”; Victoria Advocate; July 17<sup>th</sup>, 2020; [https://www.victoriaadvocate.com/news/environment/researchers-examine-pandemics-impact-on-texas-coastal-waters/article\\_c7ad79f6-c6c6-11ea-a4ea-636e9a5079b8.html](https://www.victoriaadvocate.com/news/environment/researchers-examine-pandemics-impact-on-texas-coastal-waters/article_c7ad79f6-c6c6-11ea-a4ea-636e9a5079b8.html)
- “All hands on deck: how researchers and citizen scientists helped an iconic Texas bay”; Texas Shores (Texas Sea Grant) Magazine; Spring 2020 issue; <https://stories.texasseagrant.org/all-hands-on-deck/>
- “Baffin Bay gets nearly \$1.2M in funding”; Kingsville Record, February 27<sup>th</sup>, 2020; [http://www.kingsvillerecord.com/news/baffin-bay-gets-nearly-m-in-funding/article\\_c3497574-58f1-11ea-ad0f-1b04a3a2d75b.html](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 1<sup>st</sup>, 2019; <https://www.kristv.com/news/local-news/a-local-man-is-recovering-in-the-hospital-from-a-vibrio-infection>
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2015

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

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2014

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

[where-are-the-fish](#)

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“Fish kill in Baffin Bay has residents, scientists concerned”; KIII-TV (Corpus Christi); aired on evening newscast, March 6<sup>th</sup>, 2013;  
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<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 3<sup>rd</sup>, 2013 edition; [http://www.kingsvillerecord.com/news/2013-03-03/Front\\_Page/Scientists\\_studying\\_Baffin\\_Bay\\_water.html](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 30<sup>th</sup>, 2013 edition; [http://www.kingsvillerecord.com/news/2013-01-30/Front\\_Page/County\\_to\\_fund\\_study\\_of\\_fish\\_decline\\_at\\_Baffin\\_Bay.html](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 28<sup>th</sup>, 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 5<sup>th</sup>, 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 12<sup>th</sup>, 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/>

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“Potentially toxic microorganism found in Oso Bay”; KORO-TV (Corpus Christi); aired on evening newscast, June 20<sup>th</sup>, 2012;  
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“Texas A&M University-Corpus Christi students identify potentially toxic plankton in Oso Bay”; Corpus Christi Caller Times; June 14<sup>th</sup>, 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 30<sup>th</sup>, 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. 30<sup>th</sup>, 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)**

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-present 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-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, 2<sup>nd</sup> 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*  
*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-present 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**

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