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EDUCATION

2021 PhD in Coastal and Marine Systems Science
Texas A&M University-Corpus Christi, USA

2006 MS in Marine Biology,
University of Texas at Austin (Marine Science Institute), USA

2002 BSc(Tech) in Marine Science:
University of Waikato, Hamilton, New Zealand

RESEARCH EXPERIENCE

Sept 2006 – present	Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus Christi Assistant Research Scientist (present) Research Specialist III (Oct 2019 – Aug 2021), Research Associate (2010 – Sep 2019), Research Specialist I (2006 – 2009)
Jan – Aug 2001, Jan 2004 - Aug 2006	University of Texas Marine Science Institute Research/Teaching Assistant
Oct 2002 – Dec 2003	Auckland Regional Council, Auckland, New Zealand Hydrology Technician
Nov 1999 – Feb 2000	Environment Bay of Plenty, Whakatane, New Zealand Research Assistant

JOURNAL PUBLICATIONS

39. Palmer, T.A., A.G. Klein, S.T. Sweet, P.A. Montagna, L.J. Hyde, J. Beseres Pollack. *In revision*. Anthropogenic effects on the marine environment adjacent to Palmer Station, Antarctica. *Antarctic Science*
38. Marshall, D.A., S. Casas, W. Walton, F. Rikard, T.A. Palmer, N. Breaux, M. La Peyre, J. Pollack, M. Kelly and J. La Peyre. 2021. Divergence in salinity tolerance of northern Gulf of Mexico eastern oysters under field and laboratory exposure. *Conservation Physiology* 9(1): coab065 DOI:10.1093/conphys/coab065
37. Palmer, T.A., N. Breaux, B. Lebreton, G. Guillou and J. Beseres Pollack. 2021. Importance of Serpulid Reef to the Functioning of a Hypersaline Estuary. *Estuaries and Coasts*. DOI: 10.1007/s12237-021-00989-0
36. Beseres Pollack, J., T.A. Palmer and A.E. Williams. 2021. Medium-term monitoring reveals effects of El Niño Southern Oscillation climate variability on local salinity and faunal dynamics on a restored oyster reef. *PLoS ONE*. 16(8): e0255931. DOI:10.1371/journal.pone.0255931
35. Marshall, D.A., M.K. La Peyre, T.A. Palmer, G. Guillou, J. Beseres Pollack, B. Lebreton. 2021. Freshwater inflow and responses from estuaries across a climatic gradient: An assessment of

northwestern Gulf of Mexico estuaries based on stable isotopes. *Limnology and Oceanography*. DOI: 10.1002/lno.11899

34. Cira, E.K., 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*. DOI: 10.1007/s12237-021-00904-7
33. Lebreton, B., J. Beseres Pollack, B. Blomberg, T.A. Palmer and P. Montagna. 2021. Oyster growth across a salinity gradient in a shallow, subtropical Gulf of Mexico estuary. *Experimental Results*, 2, E10, 1-12. DOI:10.1017/exp.2020.72
32. Palmer, T.A., A.G. Klein, S. Sweet, P.A. Montagna, J. Serciano, L.J. Hyde, T. Wade, M.C. Kennicutt II, J. Beseres Pollack. 2021. Long-term changes in contamination and macrobenthic communities adjacent to McMurdo Station, Antarctica. *Science of the Total Environment*. 764: 142798 DOI:10.1016/j.scitotenv.2020.142798
31. De Santiago, K., T.A. Palmer, M.S. Wetz, and J. Beseres Pollack. 2020. Response of macrobenthic communities to changes in water quality in a subtropical, microtidal estuary (Oso Bay, Texas). *Experimental Results.* 1, E34. DOI:10.1017/exp.2020.44
30. Beseres Pollack, J. and T.A. Palmer. 2020. Crassostrea virginica dredge efficiency in Texas estuaries. *Experimental Results* 1, E2. DOI:10.1017/exp.2019.2.
29. Marshall, D.A. B. Lebreton, T. Palmer, K. De Santiago and J.B. Pollack. 2019. Salinity disturbance affects faunal community composition and organic matter on a restored *Crassostrea virginica* oyster reef. *Estuarine, Coastal and Shelf Science* 226. DOI: 10.1016/j.ecss.2019.106267.
28. Breaux, N. B. Lebreton, T.A. Palmer, G. Guillou and J. Pollack. 2019. Ecosystem resilience following salinity change in a hypersaline estuary. *Estuarine, Coastal and Shelf Science* 225: 106258. DOI: 10.1016/j.ecss.2019.106258
27. De Santiago, K., T.A. Palmer, M. Dumesnil, J.B. Pollack. 2019. Rapid development of a restored oyster reef facilitates habitat provision for estuarine fauna. *Restoration Ecology* 27: 870-880 DOI: 10.1111/rec.12921
26. Montagna, P.A., C. Chaloupka, E.A. DelRosario, A.M. Gordon, R.D. Kalke, T.A. Palmer, and E.L. Turner. 2018. Managing environmental flows and water resources. *WIT Transactions on Ecology and the Environment* 215:177-188. DOI: 10.2495/EID180161
25. Montagna, P.A., X. Hu, T.A. Palmer, M. Wetz. 2018. Effect of hydrological variability on the biogeochemistry of estuaries across a regional climatic gradient. *Limnology and Oceanography* 63:2465–2478. DOI: 10.1002/lno.10953.
24. Blomberg, B.N., T.A. Palmer, P.A. Montagna, J.B. Pollack. 2018. Habitat assessment of a restored oyster reef in South Texas. *Ecological Engineering* 122: 48-61.
23. Rubio, K.S. M. Ajemian, G.W. Stunz , T.A. Palmer, B. Lebreton, J. Beseres Pollack. 2018. Dietary composition of black drum Pogonias cromis in a hypersaline estuary reflects water quality and prey availability. *Journal of Fish Biology* 93:250-262. DOI: 10.1111/jfb.13654.
22. Blomberg, B.N., B. Lebreton, T.A. Palmer, G. Guillou, J. Beseres Pollack, P.A. Montagna. 2017. Does reef structure affect oyster food resources? A stable isotope assessment. *Marine Environmental Research* 127: 32-40.
21. Montagna, P.A., A.L. Sadovski, S.A. King, K.K. Nelson, T.A. Palmer, K.H. Dunton. 2017. Modeling the effect of water level on the Nueces Delta marsh community. *Wetlands Ecology and Management* 25:731-742.
20. Wetz, M.S., E. 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.
19. Rezek, R.J., B. Lebreton, E.B. Roark, T.A. Palmer, J. Beseres Pollack. 2017. How does a restored oyster reef develop? An assessment based on stable isotopes and community metrics. *Marine Biology* 164. DOI:10.1007/s00227-017-3084-2.

18. Graham, P.M., T.A. Palmer, and J. Beseres Pollack. 2016. Oyster reef restoration: substrate suitability may depend on specific restoration goals. *Restoration Ecology* 25:459-470. DOI: 10.1111/rec.12449.
17. Lebreton, B., J. Beseres Pollack, B. Blomberg, T.A. Palmer, L. Adams, G. Guillou and P.A. Montagna. 2016. Origin, composition and quality of suspended particulate organic matter in relation to freshwater inflow in a South Texas estuary. *Estuarine, Coastal and Shelf Science* 170: 70–82. DOI 10.1016/j.ecss.2015.12.024.
16. Palmer, T.A., P.A. Montagna, R.H. Chamberlain, P.H. Doering, Y. Wan, K.M. Haunert, and D.J. Crean. 2015. Determining the Effects of Freshwater Inflow on Benthic Macrofauna in the Caloosahatchee Estuary, Florida. *Integrated Environmental Assessment and Management* 12:529-539. DOI 10.1002/ieam.1688
15. Rhodes, A.C., N.F. Carvalho, T.A. Palmer, L.J. Hyde, and P.A. Montagna. 2015. Distribution of two species of the genus Nototanais spp. (Tanaidacea) in Winter Quarters Bay and waters adjoining McMurdo Station, McMurdo Sound, Antarctica. *Polar Biology* 38: 1623-1629. DOI 10.1007/s00300-015-1727-7
14. Palmer, T.A., and P.A. Montagna. 2015. Impacts of droughts and low flows on estuarine water quality and benthic fauna. *Hydrobiologia* 753: 111–129. DOI 10.1007/s10750-015-2200-x
13. Palmer, T.A., P. Uehling and J.B. Pollack. 2015. Using oyster tissue toxicity as an indicator of disturbed environments. *International Journal of Environmental Science and Technology* 12: 2111-2116. DOI 10.1007/s13762-014-0745-2
12. George, L.M., K. De Santiago, T.A. Palmer and J.B. Pollack. 2014. Oyster reef restoration: effect of alternative substrates on oyster recruitment and nekton habitat use. *Journal of Coastal Conservation* 19: 13-22 DOI: 10.1007/s11852-014-0351-y
11. Montagna, P.A., T.A. Palmer, and J.B. Pollack. 2013. Hydrological Changes and Estuarine Dynamics. Springer, New York, 94 pp.
10. Palmer, T.A., P.A. Montagna, and R.D. Kalke. 2013. The effects of opening an artificial tidal inlet on hydrography and estuarine macrofauna in Corpus Christi, Texas. *Environmental Monitoring and Assessment.* 185: 5917-5935. DOI 10.1007/s10661-012-2995-0.
9. Pollack, J.B., A. Cleveland, T.A. Palmer, A.S. Reisenger, and P.A. Montagna. 2012. A restoration suitability index model for the eastern oyster (*Crassostrea virginica*) in the Mission-Aransas Estuary, TX, USA. *PLOS ONE* 7: e40839.
8. Pollack, J.B., T.A. Palmer, and P.A. Montagna. 2011. Long-term trends in the response of benthic macrofauna to climate variability in the Lavaca-Colorado Estuary, Texas. *Marine Ecology Progress Series* 436: 67–80.
7. Palmer, T.A., P.A. Montagna, J.B. Pollack, R.D. Kalke and H. DeYoe. 2011. The role of freshwater inflow in lagoons, rivers, and bays. *Hydrobiologia*. 667: 49-67.
6. Kennicutt M.C. II, A. Klein, P. Montagna, S. Sweet, T. Wade, T. Palmer, J. Sericano, and G. Denoux. 2010. Temporal and spatial patterns of anthropogenic disturbance at McMurdo Station, Antarctica. *Environmental Research Letters*. 5: 034010.
5. Montagna, P.A., T.A. Palmer, R.D. Kalke and A. Gossmann.2008. Suitability of using a limited number of sampling stations to represent benthic habitats in Lavaca-Colorado Estuary, Texas. *Environmental Bioindicators*. 3: 156–171.
4. Palmer, T.A., P.A. Montagna, R.D. Kalke.2008. Benthic indicators of the initial effect of opening a channel. *Environmental Bioindicators.* 3: 205-206.
3. Montagna, P.A., E.D. Estevez, T.A. Palmer, and M.S. Flannery. 2008. Meta-analysis of the relationship between salinity and molluscs in tidal river estuaries of southwest Florida, U.S.A. *American Malacological Bulletin*. 24: 101-115.
2. Palmer, T.A., P.A. Montagna, and R.B. Nairn. 2008. The effects of a dredge excavation pit on benthic macrofauna in offshore Louisiana. *Environmental Management*. 41: 573-83.
1. Palmer, T.A., P.A. Montagna, and R.D. Kalke. 2002. Downstream effects of restored freshwater inflow to Rincon Bayou, Nueces Delta, Texas, USA. *Estuaries*. 25: 1448-1456.

BOOK CHAPTERS (REFEREED)

Klein, A.G., S.T. Sweet, M.C. Kennicutt II, T.L. Wade, T.A. Palmer, and P. Montagna. 2014. Long-Term Monitoring of Human Impacts to the Terrestrial Environment at McMurdo Station, Chapter 9. In: Tin, T., D. Liggett, P.T. Maher, and M. Lamers (Eds.) "Antarctic Futures: Human Engagement with the Antarctic Environment" pp 213-227. doi: 10.1007/978-94-007-6582-5_9

Mattson, R.A., K.W. Cummins, R.W. Merritt, P.A. Montagna, T. Palmer, J. Mace, J. Slater, and C. Jacoby. 2012. Benthic Macroinvertebrates, Chapter 11. In: Lowe, E.F., L.E. Battoe, H. Wilkening, M. Cullum, and T. Bartol, "The St. Johns River Water Supply Impact Study Final report." St. Johns River Water Management District, Palatka, Florida. http://www.sjrwmd.com/watersupplyimpactstudy/

ARCHIVED DATASETS

Lebreton, B., J. Beseres Pollack, B. Blomberg, T.A. Palmer and P.A. Montagna. 2020. Oyster growth in a shallow subtropical estuary (Mission-Aransas Estuary, Texas, USA). Distributed by: Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC), Harte Research Institute, Texas A&M University-Corpus Christi. DOI:10.7266/AC120KMV

De Santiago, K., T.A. Palmer and J. Beseres Pollack. 2020. Benthic macrofauna and water quality of Oso Bay Texas, 2013-2014. Distributed by: Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC), Harte Research Institute, Texas A&M University-Corpus Christi. DOI: 10.7266/D3PCKJSF.

Beseres Pollack, J., T. Palmer and N. Breaux. 2019. Comparison of oyster populations sampled by dredge and quadrat. Distributed by: Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC), Harte Research Institute, Texas A&M University-Corpus Christi. DOI:10.7266/DRCEDRM3

Beseres Pollack J., T. Palmer, N. Breaux and K. Rubio. 2019. Benthic macrofauna abundance and biomass data collected in Baffin Bay and Laguna Madre, Texas from 2014-03-20 to 2017-07-11. Distributed by: Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC), Harte Research Institute, Texas A&M University-Corpus Christi. doi:10.7266/ZNMDE1P0

Beseres Pollack, J., T. Palmer, B. Lebreton, N. Breaux and K. Rubio. 2019. Stable isotope composition oforganic matter, benthic macrofauna, and fish in Baffin Bay and Laguna Madre, Texas, from 2015-04-21 to 2017-08-11. Distributed by: Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC), Harte Research Institute, Texas A&M University-Corpus Christi. DOI:10.7266/PJ139ZRD

JOURNALS REVIEWED

African J. of Environmental Sci. & Techn.
Aquatic Conservation
Estuaries and Coasts
Global Change Biology
Limnology and Oceanography
Marine Environmental Research
PlosONE
Restoration Ecology
Wetlands Ecology and Management
Antarctic Science
Bulletin of Marine Science
Environmental Management
Journal of Marine Systems
Marine Ecology Progress Series
Polar Biology
Regional Studies in Marine Science
Thalassas

OTHER QUALIFICATIONS

AAUS Scientific Diver
PADI Rescue Diver
PADI Dry Suit Diver
SSI Enriched Air Nitrox Diver
Texas Boating Safety Certificate

Diving First Aid for Professional Divers certified

PROFESSIONAL AFFILIATIONS
American Academy of Underwater Sciences
TAMUCC Dive Control Board
City of Corpus Christi Watershore Beach Advisory Committee (Elected Member, 2017-, Chair 2020-)