

AGNES MITTERMAYR

CURRICULUM VITAE

Center for Coastal Studies, 5 Holway Ave., Provincetown, MA 02657,
amittermayr@coastalstudies.org

EDUCATION

Ph.D. GEOMAR – Helmholtz Center for Ocean Research, Kiel, Germany 2014. Biological Oceanography. Thesis: Eelgrass Foodwebs – A comprehensive study employing $\delta^{13}\text{C}$, $\delta^{15}\text{N}$ and $\delta^{34}\text{S}$ stable isotopes.

M.Sc. University of Southampton, Southampton, UK 2008. Oceanography. Thesis: Biodiversity of polychaete assemblages following the tsunami of 2004 in Ranong province, Thailand.

RESEARCH INTERESTS

Benthic community structures in general and seagrass ecosystems in particular; biological processes and food web interactions; stable isotope studies of nutrient sources; effects of global changes and anthropogenic activities on coastal community structure

PROFESSIONAL EXPERIENCE

Director SeagrassNet Jan 2024 –
Coordinating and managing global monitoring and outreach efforts

Benthic Ecologist Center for Coastal Studies, Provincetown (MA) Apr 2017 –
Benthic habitat mapping on Cape Cod, eelgrass foodwebs and restoration

Post-doctoral fellow Marine Biological Laboratory, Woods Hole (MA) 2015 – 2017
Cape Cod National Seashore (MA) Estuarine habitat restoration, food web relationships and nutrient flows in Herring River (MA)

Post-doctoral fellow Ulrich Sommer Lab, GEOMAR, Kiel, Germany 2014 – 2015
Spatial and temporal variations in eelgrass foodwebs

Graduate studies Ulrich Sommer Lab, GEOMAR, Kiel, Germany 2010 – 2014
Developing simultaneous triple ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$ and $\delta^{34}\text{S}$) stable isotope analysis on low biomass samples, eelgrass food webs

Lecturer Kiel University, Germany 2012 – 2015
Lectures on current topics in marine biology, species identification and introduction to marine ecosystems

RECENT PUBLICATIONS

A. Novak, H.K. Plaisted, Z.J. Hughes, **A. Mittermayr**, E. Molden. 2023. *Eelgrass (Zostera marina L.) populations are threatened by high sea-surface temperatures and impaired waters on Nantucket Island, USA*. Marine Pollution Bulletin 197:115689

B. Legare, **A. Mittermayr**, and M. Borrelli. 2020. *The impacts of hydraulic clamming in shallow water and the importance of incorporating anthropogenic disturbances into habitat assessments*. Aquatic Living Resources 33:12

Agnes Mittermayr, PhD

A. Mittermayr, B.J. Legare, M. Borrelli. 2020. *Applications of shallow water mapping and the Coastal Marine Ecological Classification Standard (CMECS) in a partially resorted New England Salt Marsh*. Estuaries and Coasts doi.org/10.1007/s12237-020-00707-2

B.J. Legare, O.C. Nichols, **A. Mittermayr**, M. Borrelli. 2020. *Relationships between species communities as determined by the analysis of data from multiple surveys of Pleasant Bay, Cape Cod, MA*. Northeastern Naturalist 26 (Special Issue 10): 114-131

A. Mittermayr, S.E. Fox, C.G. Kennedy, B.J. Legare, M. Borrelli. 2020. *Using CMECS to create benthic habitat maps for Pleasant Bay, Cape Cod, Massachusetts*. Northeastern Naturalist 26 (Special Issue 10): 22-47

Borrelli, M., S. E. Fox, E. J. Shumchenia, C. G. Kennedy, B. A. Oakley, J. B. Hubeny, H. Love, T. L. Smith, B. Legare, **A. Mittermayr**, and G. S. Giese. 2019. *Submerged marine habitat mapping at Cape Cod National Seashore: A post-hurricane Sandy study*. Natural Resource Report NPS/NCBN/NRR—2019/1877. National Park Service, Fort Collins, Colorado.

J. Javidpour, A. Cipriano, **A. Mittermayr**, J. Dierking: *Temporary dietary shift in jellyfish revealed by stable isotope analysis* (2016) Marine Biology 163:112

RECENT CONFERENCES & PRESENTATIONS

A Mittermayr, J. Gaeckle, J. Lefcheck, A. Novak, H.K. Plaisted, F.T. Short. *Re-Casting the SeagrassNet*. World Seagrass Conference. Naples, Italy, 2024

A. Mittermayr, J. Lefcheck. *Bringing SeagrassNet into the New Millennium*. Zosterapalooza, Boston, USA, 2024

A Mittermayr, B.J. Legare, O. Nichols, M. Borelli. Using CMECS to create and compare benthic habitat maps in Nauset Marsh, Cape Cod, MA. Northeast Natural History Conference 2023

A. Mittermayr, J. Nelson, S.E. Fox. Shifting trophic niches in a temperate eelgrass bed. IsoEcol 2022.

A. Mittermayr, B.J. Legare, H.K. Plaisted, F. Short. Using Eelgrass as bio-indicator for nitrogen loading in Great Bay, NH. New England Estuarine Research Society Fall Meeting, Spring 2021

A. Mittermayr, S.E. Fox, J. Nelson. *Prominence of omnivory and seasonal food web niche expansion and contraction in seagrass food webs in Pleasant Bay, MA*, New England Estuarine Research Society Fall Meeting, Fall 2020

A. Mittermayr *Keystone species and conserving our delicate food webs*, TEDx Provincetown, 2019

A. Mittermayr, S.E. Fox, J. Nelson. *Shifting trophic niches in Pleasant Bay (MA)*. Zosterapalooza, EPA Boston, MA. 2019

A. Mittermayr, B.J. Legare, M. Borelli. *Mapping benthic habitats in East Harbor, Truro*. Cape Cod Natural History Conference. Barnstable, MA. 2019