

**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.

B.Sc. University of Salzburg, Salzburg, Austria 2007.

**RESEARCH INTERESTS**

Benthic invertebrate community structures, 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**

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

**Post-doctoral fellow**                      Marine Biological Laboratory, Woods Hole                      2015 – 2017  
(MA)  
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

## PUBLICATIONS

**A. Mittermayr**, M. Scotti: *Temperate effects on the structure of highly resolved Zostera marina food webs. In prep*

**A. Mittermayr**, SE Fox: *Spatial vs. temporal variation in food web structures of a temperate eelgrass system in Pleasant Bay, MA. In prep*

L. Schlueter, **A. Mittermayr**, O Roth, J Dierking: *Coexisting or outcompeting? – Dietary niche partitioning among three pipefish species in the western Baltic Sea revealed by stable isotope analysis. Submitted.*

Borrelli, M., Fox, S.E., Shumchenia, E.J., Kennedy, C.G., Oakley, B.A., Hubeny, J.B., Love, H., Smith, T.L., Legare, B., **Mittermayr**, A., Giese, G.S., in press. *Submerged Marine Habitat Mapping, Cape Cod National Seashore: A Post-Hurricane Sandy Study*, Natural Resource Report, NPS/XXXX/NRR—2018/XXX. National Park Service, Fort Collins, CO.

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

**A. Mittermayr**, SE Fox, U Sommer: *Temporal variation in stable isotope composition ( $\delta^{13}C$ ,  $\delta^{15}N$  and  $\delta^{34}S$ ) of a temperate Zostera marina food web.* (2014) *Marine Ecology-Progress Series* 505: 95 – 105

**A. Mittermayr**, T. Hansen, U. Sommer: *Simultaneous analysis of  $\delta^{13}C$ ,  $\delta^{15}N$  and  $\delta^{34}S$  ratios uncovers trophic importance of epiphytes in an eelgrass (Zostera marina L.) community.* (2014) *Marine Ecology - Progress Series* 497: 93 – 103

M. A. Kendall, C. Aryuthaka, J. Chimonides, D. Daungnamon, J. Hills, C. Jittanoon, P. Komwachirapitak, V. Kongkaew, **A. Mittermayr**, Y. Monthum, S. Nimsantijaroen, G. L. J. Paterson, R. Foster-Smith, J. Foster-Smith, N. Thongsin: *Post- Tsunami Recovery of Shallow Water Biota and Habitats.* *Polish J. of Environ. Stud.* Vol. 18, No. 1 (2009), 69-75

## ABSTRACTS

**A. Mittermayr**, M. Borrelli, E. Shumchenia, S.E. Fox. *Submerged Marine Habitat Mapping at Cape Cod National Seashore – a post Hurricane Sandy Study.* Coastal and Estuarine Research Foundation, Biennial Conference, Providence, RI. 2017

B. Legare, O. Nichols, **A. Mittermayr**, M. Borrelli. *Mapping an ecosystem: Connectivity of fish and invertebrate communities and habitats in Pleasant Bay, Massachusetts.* Coastal and Estuarine Research Foundation, Biennial Conference, Providence, RI. 2017

S.E. Fox, **A. Mittermayr**, K. Medeiros, T. Smith. *Understanding the effects of tidal restriction in Herring River Estuary and application to restoration planning*. Coastal and Estuarine Research Foundation, Biennial Conference, Providence, RI. 2017

E. MacDougal, J. Cornett III, S.E. Fox, R. Sheppard, **A. Mittermayr**, K. Medeiros, T. Smith. *Clearing the Waters: Translating the Science Behind Estuarine Restoration*. Coastal and Estuarine Research Foundation, Biennial Conference, Providence, RI. 2017

J. Cornett III, E. MacDougal, S.E. Fox, R. Sheppard, **A. Mittermayr**, K. Medeiros, T. Smith. *Understanding seasonal and inter-annual water quality trends within the tidally restricted Herring River Estuary*. Coastal and Estuarine Research Foundation, Biennial Conference, Providence, RI. 2017

A. Novak, **A. Mittermayr**. *Restoring Eelgrass to Great Marsh, MA*. Zosterapalooza, Environmental Protection Agency, Boston, MA, USA 2017

M. Scotti, **A. Mittermayr**, U. Sommer. *The effect of phenology on the structure of a benthic food web*. 1st International Conference on Community Ecology. Budapest, Hungary 2017

**A. Mittermayr**, S.E. Fox, C. Kennedy, M. Borrelli. *Benthic Fauna and Foodweb Relationships in Pleasant Bay, MA*. New England Estuarine Research Society Fall Meeting, Block Island, RI 2016

**A. Mittermayr**, S.E. Fox. *Tracing Eelgrass Foodwebs*. Zosterapalooza, Environmental Protection Agency, Boston, MA, USA 2016

M. Scotti, **A. Mittermayr**. *Temporal changes in the structure of a temperate Zostera marina food web*. Association for the Sciences of Limnology and Oceanography Meeting, Granada, Spain 2015

**A. Mittermayr**, T. Hansen, U. Sommer. *Tracing Eelgrass Foodwebs: Simultaneous analysis of  $\delta^{13}C$ ,  $\delta^{15}N$  and  $\delta^{34}S$  of low biomass samples*. Advances in Stable Isotope Techniques and Applications, UC Davis, USA 2014

## INVITED PRESENTATIONS

**A. Mittermayr**. *Novel Methods in Food Web Reconstruction*. GEOMAR, Kiel, Germany 2013

**A. Mittermayr**. *Tracing a Food-web with stable isotopes*. National Park Service HQ, Washington DC, USA 2012

**A. Mittermayr**. *Simultaneous Triple Stable Isotope Analysis as a Tool in Coastal Food-webs*. National Oceanic and Atmospheric Administration, Annapolis, Maryland, USA 2012

**A. Mittermayr.** *Pre-Restoration of the Herring River Estuary: Understanding the Effects of Tidal Restriction.* Deutsche Forschungsgesellschaft, Berlin 2016

## **OUTREACH**

**A. Mittermayr.** *Fins, Whiskers, Claws and What Lies Beneath – benthic habitats in Pleasant Bay.* Friends of Pleasant Bay Annual Meeting 2017

**A. Mittermayr.** *Coastal Foodwebs at Cape Cod National Seashore.* NPS Centennial Celebration, Cape Cod, MA 2016

**A. Mittermayr.** *Are you my lunch?* Science Symposium at the Cape Cod National Seashore, Massachusetts, USA 2012

## **AWARDS & FELLOWSHIPS**

Research grant from the Friends of Herring River 2015, 2016

Postdoctoral fellowship of the German Research Foundation 2015

Reisestipendium der Gesellschaft zur Förderung des Helmholtz- Zentrums für Ozeanforschung e.V. 2012

Doctoral fellowship of the German Research Foundation 2011

IPS Stipendium des Landes Oberösterreich Internationalisierungsprogramm für Studierende) 2007

## **PROFESSIONAL ASSOCIATIONS**

New England Estuarine Research Society

## **REVIEWER**

The AUK: Ornithological Advances  
Journals of Fisheries Biology  
Marine Biology  
Marine Ecology Progress Series