MELINA R. MEHLMANN

PHD CANDIDATE

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mmehlmann/

EDUCATION

PhD Oceanography
Dalhousie University, Canada
Supervisor: Prof. Dr. Katja Fennel
2020 – ongoing

MSc Climate Physics
GEOMAR Kiel, Germany
2017 – 2019

BSc Physics of the Earth System
CAU & GEOMAR Kiel, Germany
2014 – 2017

SCHOLARSHIPS

- 2020-2024: Cusanuswerk PhD Scholarship ~C$170,000
- 2019: IAESTE Travel Stipend ~C$2,000
- 2018: IAESTE Travel Stipend ~C$1,000

INTERNSHIPS

- 11/2019 – 12/2019: **University of Chemical Technology of Russia**
  Wastewater analysis with dies and active carbon.
- 09/2018 – 11/2018: **FCPC San Jose del Monte, Philippines**
  Teaching: mathematics & physics
- 02/2017 – 03/2017: **ICBM, Germany**
  Simulation of Ekman theory & eddy formation (Atlantic) with ROMS.

LANGUAGES

English fluent
German native language

PROFILE

I am a resourceful and motivated PhD student at the Marine Environmental Modelling Group at Dalhousie, Canada. My research focusses on the evaluation of biogeochemistry in Earth System Models. Before starting my PhD I completed my MSc in Climate Physics at GEOMAR, Germany, which shaped my multidisciplinary academic background in physical and chemical oceanography.

PUBLICATIONS

2020 ***Natural and anthropogenic sources of bromoform and dibromomethane in the oceanographic and biogeo-chemical regime of the subtropical North East Atlantic***
Mehlmann, M., B. Quack, E. Atlas, H. Hepach, and S. Tegtmeier (2020), Environ Sci Process Impacts. 2020 Mar., 1;22(3), 679–707, doi: 10.1016/j.csr.2016.06.005.

2020 ***The ocean mesoscale component in the EUREC4A++ field study***
Karstensen, J.,G. Lavik, C. Acquistapace, G. Bagheri, C. Begler, A. Bendinger, E. Bodenschatz, T. Böck, J. Günler, K. Hall, M. Körner, A. Kopp, D. Lange, M. Mehlmann, (..) (2020). EUREC4A Campaign, Cruise No. MSM89, 17. January – 20. February 2020, Bridgetown (Barbados) – Bridgetown (Barbados), MARIA S. MERIAN-Berichte ; MSM89, 1–70, ISSN: 2195-8483, doi: 10.1016/j.csr.2016.06.005.

SKILLS

- **Matlab and unix** advanced computational skills
- **Oceanographic instrument set up, calibration, operation**, and data validation for CTD (OPUS, ADCP, fluorescence sensor, UVP, etc.), MVPs, microstructures, glider, drifter, salinometer
- Chemical oceanography **laboratory safety instruction** for working with liquid nitrogen and gaseous helium, nitrogen and oxygen on ship and on land
- **GC-MS** operation for halocarbon measurements
- **CDOM/FDOM filtration**
- Advanced Open Water **Scuba Diver**