

DR. BENTE TIEDJE

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EDUCATION

PhD in Natural Sciences

Institute of Oceanography, University of Hamburg

Jan 2013

“Potential predictability of meridional heat and volume transports in the North Atlantic Ocean”

Masters degree in Oceanography (Diplom)

Minor subjects: Meteorology, Geophysics, University of Hamburg

Oct 2008

“Comparison of temporal and spatial structures of chlorophyll derived from MODIS satellite data and ECOHAM3 model data in the North Sea”

EXPERIENCE

Research Associate

MiKlip 2, Climate Service Center Germany (GERICS)

since Nov 2015

Postdoctoral Research Associate

CliSAP excellence cluster, University of Hamburg

Mar 2013 - July 2014

- Processed North Atlantic density observations to analyze climate change signals in the density gradient and geostrophic transport.

Research Associate

CliSAP excellence cluster, University of Hamburg

Mar 2009 - Mar 2013

- Generated hindcast ensembles initialized from an oceanic state estimate for predictability studies of heat and volume transports in the North Atlantic.

Student Assistant

University of Hamburg, GLOBEC Germany

Dec 2006 - Feb 2009

- Processed and illustrated model, in situ, and satellite data of chlorophyll in the German Bight and the Arctic oceans.

PUBLICATIONS

Limitations of the potential predictability of meridional mass and heat transports in the North Atlantic

Bente Tiedje and Johanna Baehr

June 2014

Geophysical Research Letters, volume 41, issue 12, pages 4270-4276

Potential predictability of the North Atlantic heat transport based on an oceanic state estimate

Bente Tiedje, Armin Köhl and Johanna Baehr

Dec 2012

Journal of Climate, volume 25, issue 24, pages 8475-8486

Comparison of temporal and spatial structures of chlorophyll derived from MODIS satellite data and ECOHAM3 model data in the North Sea

Bente Tiedje, Andreas Moll, Lars Kaleschke

Oct 2010

Journal of Sea Research, volume 64, issue 3, pages 250-259

SELECTED PRESENTATIONS

- CLIVAR Workshop on decadal variability, predictability and prediction: Understanding the role of the ocean - Boulder, USA** Sept 2010
Poster: Potential predictability of the North Atlantic meridional overturning circulation based on an oceanic state estimate
- General Assembly of the European Geosciences Union - Vienna, Austria** Apr 2011
Poster: Potential predictability of the North Atlantic heat transport based on an oceanic state estimate
- General Assembly of the European Geosciences Union - Vienna, Austria** Apr 2012
Poster: North Atlantic heat transport and AMOC: Potential predictability in the subtropical and subpolar gyre
- Knowledge for the future - IAHS, IAPSO, IASPEI Joint Assembly - Gothenburg, Sweden** July 2013
Talk: On the relation of the potential predictability of the AMOC and the MHT
- General Assembly of the European Geosciences Union - Vienna, Austria** Apr 2014
Talk: Upper ocean geostrophic transports in the North Atlantic based on EN3 data

ACTIVITIES & AWARDS

- Member and graduate of the School of Integrated Climate System Sciences (SICSS, 2009 - 2013)
- PhD student speaker of SICSS (2009 - 2011) with organizational work for a PhD student conference
- Outstanding Student Poster (OSP) Award, European Geosciences Union (2011)
- Voluntary work for the school project “Zimmerwetter” (Regionalverband Umweltberatung Nord e.V.)