

Curriculum Vitae



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Professional Experience:

2007- present Assistant Professor, University of California at Los Angeles, USA
2005 - 2006 Postdoctoral Investigator, Woods Hole Oceanographic Institution, MA, USA
2003 - 2005 Postdoctoral Fellow, Woods Hole Oceanographic Institution, MA, USA
1999 Scientist, Institut für Meereskunde, Kiel, Germany

Degrees Awarded:

2003 PhD, Earth and Ocean Sciences,
University of Victoria, Canada, 2003
1998 Diplom (equiv. to Masters) Physical Oceanography,
University of Kiel, Germany
1994 Vordiplom Physics
University of Heidelberg, Germany

Educational Institutions Attended:

1999 - 2003 University of Victoria, BC, Canada: Earth and Ocean Sciences
1994 - 1999 University of Kiel, Germany: Physical Oceanography
1992 - 1994 University of Heidelberg, Germany: Physics

Awards:

2003 Postdoctoral Fellowship,
Woods Hole Oceanographic Institution, MA, USA
2003 Conference/PODY Award
Physical Oceanography Dissertation Symposium 2003 (PODS II),
Waikaloa, Hawaii

Invited Talks:

- 2005 “Noble Gases as Tools to Study Air-Sea Gas Exchange”
Physical Oceanography Dissertation Symposium (PODS III),
Waikaloa, Hawaii
- 2005 “Wave-Current Interaction in Tidal Fronts”
14th ‘Aha Huliko’a Winter Workshop: Rogue Waves,
Honolulu, Hawaii
- 2003 “Air-Sea Gas Exchange in Tidal Fronts”
Physical Oceanography Dissertation Symposium (PODS II),
Waikaloa, Hawaii
- 2000 “Kayaking on Stratified Flows”
5. International Symposium on Stratified Flows,
Vancouver, Canada

Research Interests:

- Air-sea gas exchange in the coastal and open ocean
- Gas bubble dynamics
- Hydraulically controlled flows and flow-topography interaction
- Flow exchange through sea straits
- Biological-physical interaction in tidal fronts
- Wave-current interaction
- Ocean acoustic tomography

Synergistic Activities:

- Participation in the TV documentary “Lethal Seas”
In May 2001, the British TV Company Northlight Productions (Channel 4) shot a documentary on oceanic “whirlpools” in different parts of the world. A major part of this documentary was filmed in British Columbia, Canada, where I planned and conducted the documented research activities in the Nakwakto and Arran tidal rapids.
- Seminar on the physical oceanography for divers
In May 2003 I gave 2 talks in Victoria, BC, Canada, on the physical oceanography relevant for divers. Special focus was given to waves and tidal currents.
- Teaching of graduate courses
In 2002, I was employed by the Institut für Meereskunde, Kiel, Germany, for 3 months to teach graduate courses in science oriented programming as well as lab classes on sea for ocean science students.

Publications:

- T. Avsic, U. Send, B. Baschek, 2002: Analysis of in-situ observations in the Strait of Gibraltar. *Meeting on the physical oceanography of sea straits, Villefranche 2002, Proceedings*, pp. 69-72.
- B. Baschek, 1998: Strömungsuntersuchungen in der Straße von Gibraltar. *Diplomarbeit, Institut für Meereskunde, Kiel, Germany*.
- B. Baschek and D.M. Farmer, 2000: The role of frontal processes in air-sea gas exchange. *5. International Symposium on Stratified Flows, proceedings, ed. G.A. Lawrence, R. Pieters, and Y. Yonemitsu*, pp. 617-621.
- B. Baschek, U. Send, J.G. Lafuente, and J. Candela, 2001: Transport estimates in the Strait of Gibraltar with a tidal inverse model. *J. Geophys. Res.*, Vol. 106, No. C12, p. 31,033-31,044.
- B. Baschek, 2003: Air-sea gas exchange in tidal fronts. *PhD thesis, University of Victoria, Canada*.
- B. Baschek, 2005: Wave-current interaction in tidal fronts. Submitted to *proceedings 14th 'Aha Huliko'a Winter Workshop 2005: Rogue Waves*, ed. P. Muller and C. Garrett.
- P. Brandt, A. Rubino, D.V. Sein, B. Baschek, A. Izquierdo, and J.O. Backhaus, 2004: Flow exchange in the Strait of Gibraltar derived from a two-layer tidal model. *J. Phys. Oceanogr.*, 34 (2), pp. 433-443.
- H. Kremer, L. Koch, B. Adloff, B. Baschek, O. Schneider, and W. Fischer, 1994: Results from a pilot study on the sightings of harbour porpoises, *Phocoena phocoena*, at the North-Sea coast of Schleswig-Holstein, F.R.G. *Arch. Fish. Mar. Res.*, 42(1), pp. 35-45.
- H. Kremer, L. Koch, B. Baschek, and B. Adloff, 1992: Sightings of harbour porpoises (*Phocoena phocoena*) off the Island of Sylt, F.R.G. *Symposium Whales: Biology – Threats - Conservation, proceedings, ed. J.J. Symoens*. pp. 73-75.
- J.G. Lafuente, J.M. Vargas, F. Plaza, T. Sarhan, J. Candela, and B. Baschek, 2000: The tide at the eastern section of the Strait of Gibraltar. *J. Geophys. Res.*, Vol. 105, No. C6, pp. 14,197-14,213.
- O. Plähn, B. Baschek, T. Badewien, M. Walter, and M. Rhein, 2002: The importance of the Gulf of Aqaba for the formation of bottom water in the Red Sea. *J. Geophys. Res.*, Vol. 107, No. C8.
- U. Send and B. Baschek, 2001: Intensive ship-board observations of the flow through the Strait of Gibraltar. *J. Geophys. Res.*, Vol. 106, No. C12, pp. 31,017-31,032.
- U. Send, P.F. Worcester, B.D. Cornuelle, C.O. Tiemann, and B. Baschek, 2002: Integral measurements of mass transport and heat content in the Strait of Gibraltar from acoustic transmissions. *Deep Sea Res.*, part II, Vol. 49, No. 19, pp. 4069-4095.