

Alexandra BOZEC
Curriculum Vitae

PhD, Physical Oceanography, Assistant Research Scientist
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Professional experience

Sep2009 - Present : Assistant Research Scientist at COAPS

Sep2006–Aug2009: Postdoctoral fellow at COAPS with Dr. E. Chassignet as advisor on the variability of the Mediterranean outflow using the HYCOM ocean model.

Feb2006–Aug2006: Postdoctoral fellow at Laboratoire des Sciences du Climat et de l'Environnement (LSCE) with M. Kageyama and G. Ramstein as advisors on the thermohaline circulation of the Mediterranean Sea during the Last Glacial Maximum.

Nov 2001-Dec 2002: Engineer at Laboratoire d'Océanographie Dynamique et de Climatologie (LODYC), Paris, on the development of the OPA OGCM model (dir G. Madec): implementing partial steps bathymetry and improving the modelization of outflows, in particular of the Mediterranean outflow, in the global configuration of OPA.

Mar 2001-Jul 2001: Study on an ARGO drifter deployment strategy in the Indian Ocean (French report):« Dérives de flotteurs Lagrangiens de type PROVOR dans l'océan Indien simulées dans le modèle océanique ORCA : éléments de réflexion à une stratégie de déploiement », LODYC, Paris. (dir J.-P. Boulanger).

Education

Jan 2003 –Jan 2006: PhD at Laboratoire d'Océanographie et de Climatologie –Expérimentations et Approches Numériques- (previously LODYC) with P. Bouruet-Aubertot (LOCEAN) and L. Li (LMD) as advisors on: « The thermohaline circulation of the Mediterranean Sea under Present and Future climates»

Oct 2000 -Jul 2001: Master in Oceanology, Meteorology and Environment at Université Bretagne Occidentale, Brest, France

Sep1996–Sep 2000: Bachelor degree in Fundamental Physics at Université Bretagne Occidentale, Brest, France

Publications

Bozec, A., M.S. Lozier, Chassignet, E.P., and G. R. Halliwell, 2011: On the variability of the Mediterranean Outflow Water in the North Atlantic from 1948 to 2006, *J. Geophys. Res.*, *in preparation*.

Nof, D., Jia, Y., Chassignet, E.P., and **A. Bozec**, 2011: Fast Wind-induced Migration of Leddies in the South China Sea, *J. Phys. Oceanogr.*, *under review*.

Hanson, H. P., **Bozec**, A. and A. E. S. Duerr, 2011 : The Florida Current: A clean but challenging energy resource, *Eos Trans. AGU*, 92(4), 29–30, doi:10.1029/2011EO040001.

Béranger, K., Drillet, Y., Houssais, M.-N., Testor, P., Bourdalle-Badie, R., Alhammoud, B., **Bozec, A.**, Mortier, L., Bouruet-Aubertot, P., Crépon, M., 2010: Impact of the spatial distribution of the atmospheric forcing on water mass formation in the Mediterranean Sea, *J. Geophys. Res.*, *accepted*.

Mariani, P., MacKenzie, B., Iudicone, D., **Bozec, A.**, 2010: Modelling retention and dispersion mechanisms of bluefin tuna eggs and larvae in the Northwestern Mediterranean Sea, *Progress in Oceanography*, 86,45-58.

Bozec, A., Bouruet-Aubertot, P., Iudicone, D., Crépon, M., 2008: Impact of penetrative solar flux on water mass transformation in the Mediterranean Sea, *J. Geophys. Res.*, 113, C06012, doi:10.1029/2007JC004606.

Cravatte, S., Madec, G., Izumo, T., Menkes, C., **Bozec, A.**, 2007: Progress in 3-D circulation of the eastern Pacific in a climate ocean model, *Ocean Modelling*, 17, 28-48.

Bozec, A., Bouruet-Aubertot, P., Béranger, K., Crépon, M., 2006: Mediterranean oceanic response under the interannual variability of a high-resolution atmospheric forcing: A focus on the Aegean Sea, *J. Geophys. Res.*, 111, C11013, doi:10.1029/2005JC003427.

Li, L., **Bozec, A.**, Somot, S., Béranger, K., Bouruet-Aubertot, P., Sevault, F., Crépon, M., 2005: Regional Atmospheric, Marine processes and climate modeling, *Mediterranean Climate Variability*, Elsevier Edition, Cambridge, pp 359-382.

Short Report

Gouillon, F., Vanni re, B., **Bozec, A.**, Chassignet, E., 2009, Modeling the M2 and O1 baroclinic tides in the Gulf of Mexico using the HYbrid Coordinate Ocean Model (HYCOM), Research Activities in Atmospheric and Ocean Modeling, CAS/JSC Working Group on Numerical Experimentation.

Bozec, A., Chassignet, E., Garraffo, Z., Halliwell, G., Lozier, S., 2008: On the Variability of the Mediterranean Outflow Water in North Atlantic HYCOM Simulations, Research Activities in Atmospheric and Ocean Modeling, CAS/JSC Working Group on Numerical Experimentation.

Bozec, A., 2007: HYCOM for Dummies or HYCOM quick start guide, Technical report available at http://www.coaps.fsu.edu/~abozec/HYCOM/HYCOM_files/HYCOM_for_Dummies.pdf.

Membership

American Geophysical Union

Additional Informations

Computing language: Fortran, UNIX

Visualization Software: IDL, Matlab, ferret

Language Skills: French (Mother tongue), English (fluent), German (basic)