

## **Mary-Louise Timmermans**

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### **Education:**

- Ph.D., 2000, Trinity College, Cambridge University (Department of Applied Mathematics and Theoretical Physics), Cambridge, UK
- M.Sc., 1996, Cambridge University (Department of Applied Mathematics and Theoretical Physics), Certificate of Advanced Studies in Mathematics, Cambridge, UK
- B.Sc., 1994, University of Victoria (Department of Physics and Astronomy), BC, Canada

### **Positions Held:**

- Assistant Scientist, 2005-present, WHOI
- Research Associate, 2005, University of Victoria, Department of Ocean Sciences, BC, Canada
- Postdoctoral Investigator, 2004, WHOI
- Postdoctoral Scholar, 2002-2004, WHOI
- Postdoctoral Fellow, 2001, Institute of Ocean Sciences and University of Victoria, Department of Ocean Sciences, BC, Canada

### **Recent Publications:**

- Timmermans, M.-L., Toole, J., Krishfield, R. & Winsor, P., 2008. Ice-Tethered Profiler observations of the double-diffusive staircase in the Canada Basin thermocline. *Journal of Geophysical Research*, In press.
- Krishfield, R., Toole, J., Proshutinsky, A. and Timmermans, M.-L., 2008. Automated Ice-Tethered Profilers for seawater observations under pack ice in all seasons. *Journal of Atmospheric and Oceanic Technology*, in press.
- Timmermans, M.-L., Toole, J., Proshutinsky, A., Krishfield, R. & Plueddemann, A., 2008. Eddies in the Canada Basin, Arctic Ocean, observed from Ice-Tethered Profilers. *Journal of Physical Oceanography*, **38**(1), 133-145.
- Timmermans, M.-L., Melling, H. & Rainville, L., 2006. Dynamics in the deep Canada Basin, Arctic Ocean, inferred by thermistor-chain time series. *Journal of Physical Oceanography*, **37**(4), 1066-1076. DOI: 10.1175/JPO3032.1.
- Toole, J., Krishfield, R., Proshutinsky, A., Ashjian, C., Doherty, K., Frye, D., Hammar, T., Kemp, J., Peters, D., Timmermans, M.-L., von der Heydt, K., Packard, G., & Shanahan, T., 2006. Ice-Tethered Profilers sample the upper Arctic Ocean, *Eos Transactions AGU*, **87**(41), 434, doi:10.1029/2006EO410003.
- Timmermans, M.-L. & Garrett, C., 2006. Evolution of the deep water in the Canadian Basin in the Arctic Ocean. *Journal of Physical Oceanography*, **36**(5), 866-874.
- Timmermans, M.-L. & Pratt, L.J., 2005. Two-layer rotating exchange flow between two deep basins: Theory and application to the Strait of Gibraltar. *Journal of Physical Oceanography*, **35**(9), 1568-1592.
- Timmermans, M.-L., Winsor, P. & Whitehead, J., 2005. Deep-water flow over the Lomonosov Ridge in the Arctic Ocean. *Journal of Physical Oceanography*, **35**(8), 1489-1493.
- Timmermans, M.-L., Garrett, C. & Carmack, E., 2003: The thermohaline structure and evolution of the deep waters in the Canada Basin, Arctic Ocean. *Deep Sea Research Part I*, **50**, 1305-1321.