

Publications

(names printed in bold indicate AWI affiliations)

Fahrbach, E., M. Hoppema, G. Rohardt, O. Boebel, O. Klatt and **A. Wisotzki**, 2011. Warming of deep and abyssal water masses along the Greenwich meridian on decadal time-scales: The Weddell gyre as a heat buffer. *Deep-Sea Research II* **58**: 2509-2523. doi:10.1016/j.dsr2.2011.06.007

Hoppema, M., K. Bakker, S.M.A.C. van Heuven, J.C. van Ooijen and H.J.W. de Baar, 2015. Distributions, trends and inter-annual variability of nutrients along a repeat section through the Weddell Sea (1996-2011). *Marine Chemistry* **177**: 545-553. doi:10.1016/j.marchem.2015.08.007

Huhn, O., M. Rhein, **M. Hoppema** and S. van Heuven, 2013. Decline of deep and bottom water ventilation and slowing down of anthropogenic carbon storage in the Weddell Sea, 1984-2011. *Deep-Sea Research I* **76**: 66-84. doi:10.1016/j.dsr.2013.01.005

Reeve, K., Boebel, O., Kanzow, T., Strass, V., Rohardt, G. and Fahrbach, E. (2016): A gridded data set of upper-ocean hydrographic properties in the Weddell Gyre obtained by objective mapping of Argo float measurements, *Earth System Science Data*, 8 (1), pp. 15-40. doi: 10.5194/essd-8-15-2016

Menze, S., Zitterbart, D., van Opzeeland, I. and Boebel, O. (2016): The influence of sea ice, wind speed and marine mammals on Southern Ocean ambient sound, *Royal Society Open Science*. doi: 10.1098/rsos.160370

Van Heuven, S.M.A.C., **M. Hoppema, E.M. Jones** and H.J.W. de Baar, 2014. Rapid invasion of anthropogenic CO₂ into the deep circulation of the Weddell Gyre. *Philosophical Transactions of the Royal Society A* **372**: 20130056. doi:10.1098/rsta.2013.0056.

Van Heuven, S.M.A.C., **M. Hoppema**, O. Huhn, H.A. Slagter and H.J.W. de Baar, 2011. Direct observation of increasing CO₂ in the Weddell Gyre along the Prime Meridian during 1973-2008. *Deep-Sea Research II* **58**: 2613-2635. doi:10.1016/j.dsr2.2011.08.007