Ocean Sci. Discuss., 6, C75–C77, 2009
www.ocean-sci-discuss.net/6/C75/2009/

Ocean Science Discussions

Interactive comment on "Sensors for observing ecosystem status" *by* S. Kröger et al.

L. Boehme

lb284@st-andrews.ac.uk

Received and published: 30 April 2009

I think this is a very interesting paper. I just want to present some references for the lines 17-21 on page 779. I also think this new technique of deploying tags that measure the immediate environment of an animal is a very important tool to characterise a habitat. Maybe the authors should write a bit more about that as it is also an important part of GOOS today. Such tags are now also equipped with fluorometers in addition to the standard CTD sensors.

Biuw, M., L. Boehme, C. Guinet, M. Hindell, D. Costa, J-B. Charrassin, F. Roquet, F. Bailleul, M. Meredith, S. Thorpe, Y. Tremblay, B. McDonald, Y-H. Park, S. Rintoul, N. Bindoff, M. Goebel, D. Crocker, P. Lovell, J. Nicholson, F. Monks and M.A. Fedak, 2007, Variations in behaviour and condition of a Southern Ocean top predator in relation to in-situ oceanographic conditions. Proceedings of the National Academy

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Interactive Discussion

Discussion Paper

of Science, August 21, 2007, Vol 104, No. 34, pp 13705-13710 DOI information: 10.1073/pnas.0701121104

Boehme, L., M. P. Meredith, S. E. Thorpe, M. Biuw and M. Fedak, 2008, The ACC frontal system in the South Atlantic: monitoring using merged Argo and animal-borne sensor data. Journal of Geophysical Research, 113, C09012 DOI information: 10.1029/2007JC004647

Boehme, L., S.E. Thorpe, M. Biuw, M. Fedak and M.P. Meredith, 2008, Monitoring Drake Passage with elephant seals: Frontal structures and snapshots of transport. Limnology & Oceanography, 53, 2350-2360

Charrassin, J.-B., M. Hindell, S. R. Rintoul, F. Roquet, S. Sokolov, M. Biuw, D. Costa, L. Boehme, P. Lovell, R. Coleman, R. Timmermann, A. Meijers, M. Meredith, Y.-H. Park, F. Bailleul, M. Goebel, Y. Tremblay, C.-A. Bost, C. R. McMahon, I. C. Field, M. A. Fedak, and C. Guinet, 2008, Southern Ocean frontal structure and sea-ice formation rates revealed by elephant seals. Proceedings of the National Academy of Science, Vol. 105, no. 33, pp 11634-11639 DOI information: 10.1073/pnas.0800790105

Charrassin, J.B., Y.H. Park, Y. Le Maho, C.A. Bost (2002), Penguins as oceanographers unravel hidden mechanisms of marine productivity., Ecology Letters, 5: 317–319.

Lydersen, C., O.A. Nøst, P. Lovell, B.J. McConnell, T. Gammelsrød, C. Hunter, M.A. Fedak, K.M. Kovacs (2002), Salinity and temperature structure of a freezing Arctic fjord monitored by white whales (Delphinapterus leucas)., Geophys. Res. Lett., 29(23), 2119, doi:10.1029/ 2002GL015462.

Lydersen, C., O.A. Nøst, K.M. Kovacs, M.A. Fedak (2004), Temperature data from Norwegian and Russian waters of the northern Barents Sea collected by freeliving ringed seals., Journal of Marine Systems, 46, 99–108.

Nicholls K. W., L. Boehme, M. Biuw and M. A. Fedak, 2008, Wintertime ocean conditions over the southern Weddell Sea continental shelf, Antarctica. Geophys. Res.

Lett., 35, L21605 DOI information:10.1029/2008GL035742

Interactive comment on Ocean Sci. Discuss., 6, 765, 2009.