Geophysical Research Abstracts, Vol. 7, 09347, 2005 SRef-ID: 1607-7962/gra/EGU05-A-09347

© European Geosciences Union 2005



## A global finite-element ocean circulation model

S. Danilov, G. Kivman, J. Schroeter

Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany

We present new developments in the finite-element ocean circulation model (FEOM). First, we describe the global configuration of the model and first results obtained on a coarse (approximately 1.5 degree) global grid. Second, we present the finite-element sea ice model and its rheology issues. Finally we touch some aspects of grid generation with bottom-following coordinate.