



Tracer advection in ECHO-GiSP GCM

Th. Orgis(1), S. Brand(2), U. Schwarz(1), J. Kurths(1), K. Dethloff(2)

(1) Institute of Physics, University of Potsdam, Germany, (2) Alfred-Wegener-Institute for Polar and Marine Research Potsdam, Germany
(orgis@agnld.uni-potsdam.de)

In the course of the Pole-Equator-Pole project the transport and mixing of passive tracers is investigated using calculation of 3D Lagrangian trajectories through numerical integration in the wind fields given by the GCM.

Calculation of a large number of these draws a picture of the development of spatial particle densities over time in the model. First results of these calculations will be shown.