



On Alternating Zonal Jets in Ocean Basins

Balasubramanya Nadiga (1) and David Straub (2)

(1) Los Alamos National Lab., Los Alamos, United States (btnadiga@gmail.com), (2) McGill University

We find that alternating zonal jets can appear in the most classical of settings used in studies of dynamics of ocean circulation—that of the steady, large-scale, wind-forced, double-gyre circulation in an ocean basin. Additionally, in analyzing energy cascades, we find that the alternating zonal jets are associated with characteristic compensating nonlinear and beta fluxes.