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**Banu Baydil\*** (banubaydil@gmail.com). *Data-driven Multi-scale Modeling of Transport in Meso-scale Oceanic Turbulence.*

A data-driven multi-scale methodology towards modeling transport in meso-scale oceanic turbulence will be introduced. The methodology will be demonstrated on a kinematic time dependent non-Gaussian random field model. The model will be calibrated through statistically extracted meso-scale flow field data. (Received January 19, 2012)