

Eddy PV Fluxes in the Kuroshio Extension at 144°-148°E

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Overview Eddy PV fluxes are quantified from observations made during the Kuroshio Extension System Study from 2004-2006. The eddy PV fluxes were found to play two different roles: 1) eddies draw energy from the background flow. 2) crossstream eddy PV fluxes account for observed changes in the thickness PV within the southern recirculation gyre (RG). Cross-stream eddy PV fluxes to the south offer an additional mechanism in modification of Subtropical Mode Water (STMW) in the RG from that offered by Qiu et al. (2006)⁴.

