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ABSTRACT TITLE: Use of MOFLUX data to advance ecosystem process understanding and improve global carbon cycle models

ABSTRACT: The Missouri Ozark forest AmeriFlux site (MOFLUX) is strategically located in an ecologically important transitional zone between the central hardwood region and the central grassland region of the US. Since the initiation in 2004, measurements made at this ecotonal site have yielded crucial insights into the dynamics of terrestrial flux exchanges with the atmosphere and the physical and biological processes controlling such dynamics. A wide spectrum of drought regimes have occurred at MOFLUX, providing excellent opportunities for understanding water controls on ecosystem functions and for testing model drought responses. MOFLUX also supports fundamental processed-based measurements and analyses that have been led to improvements of carbon cycle models. In this poster, we summarize the use of MOFLUX data to advance ecosystem process understanding and improve global carbon cycle models.