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Organized precipitating convection in a global context

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From the global perspective, while it is recognized that the realistic representation of convection is a long-standing grand challenge, remarkably little attention is paid to convective organization. Interactions among precipitating convection (latent heating), advective forcing (generation of convective available potential energy, CAPE) and atmospheric wave dynamics (shear) are highly pertinent. This talk will summarize recent progress with propagating convective systems over the continental US, and multiscale convective organization in the MJO. Also summarized will be a new international initiative, the Year of Tropical Convection (YOTC) in which multi-sensor satellite measurements and high-resolution models are keynotes (Moncrieff et al 2007; Waliser and Moncrieff 2007).

Moncrieff, M.W., M. Shapiro, J. Slingo, and F. Molteni, 2007: Collaborative research at the intersection of weather and climate. *WMO Bulletin*, **56**, 204-211.

Waliser, D. E., and M.W. Moncrieff, 2007: Year of Tropical Convection: A joint WCRP-THORPEX Activity to Address the Challenge of Tropical Convection, *GEWEX News*, **17**, 8-9