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the wavelet diagnosis: a methodology for inferring the physics

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Considering the inherent limitations of CRM, which may be overcome only in future eventually, it is best to consider all the current simulations by CRM as tentative, and to refrain from drawing any definite final conclusions. Under such a perspective, developments of methodologies for objective solid analyses of CRM simulations are more important than the analyses themselves: a tested case may turn out to be erroneous, but a developed methodology would be re-applied to a revised simulation. There is also surprisingly little work for closely scrutinizing the dynamical-physical processes within CRM simulations of convection. In the present talk, the wavelet is proposed as a tool for providing such objective analysis methodology. A particularly example is taken from an idealized simulation of a diurnal cycle over a midlatitude continent, and a triggering process of convection is examined.