

The coupling of winds and clouds in organized shallow convection

Friday, 7 May 2021 16:00 (1h 45m)

Studies of deep convection have long established that environmental wind shear is important for the development of long-lived organized convection. But do we understand how winds play a role in the organization of shallow convection?

In this talk I will show idealized and realistic large-eddy simulations of precipitating shallow convection and discuss the sensitivity of convective deepening to wind shear and the role of mesoscale circulations in setting convective momentum transport and (near-surface) wind stress.

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