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Title:
Land-ocean contrasts in the response of the hydrological cycle and surface temperature to radiative forcing

Abstract:
Observations and model simulations both indicate that the response of the atmosphere to radiative forcing is markedly different over land and ocean. In this talk, I will discuss land-ocean contrasts in the response of near-surface humidity, temperature, and precipitation statistics. I will also discuss theory and idealized simulations that have been used to explore the physical links between the changes in temperature and the hydrological cycle over land and ocean.

Short bio:
Paul O'Gorman is an assistant professor in the Department of Earth, Atmospheric, and Planetary Sciences at MIT. He currently holds the Victor P. Starr career development professorship. His primary research interests are in the large-scale dynamics of the atmosphere, the hydrological cycle, and climate change.