



Entropy or potential temperature?

Maarten Ambaum

University of Reading, Department of Meteorology, United Kingdom [m.h.p.ambaum@reading.ac.uk]

In this presentation I will highlight some of the shortcomings of using potential temperature and potential temperature related concepts in meteorology. I will argue that in most cases it is better to stick to entropy as the basic concept rather than try and transform entropy to potential temperature. I will highlight some of the gains that can be made by using entropy in the study of moist air, potential vorticity, buoyancy, or non-equilibrium processes.