



Department of
Mathematical Sciences

Colloquium

Dr. Gretchen Mullendore

Professor of Atmospheric Sciences

University of North Dakota

**Friday,
Nov 15, 2019
EMS Building
Room E495
2:00 pm**



**Dr. Gretchen
Mullendore**

**UW-Milwaukee
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Radar Observations and Simulations of the Level of Maximum Detrainment

Parcel theory is the basis for many of convective indices (e.g., CAPE, LNB) that are used extensively throughout the community. While it is widely known that parcel theory is only an approximation, and therefore the indices that derive from parcel theory are also just approximations, much more research is needed so that we can better link our theory to observations. One example is the relationship between the level of neutral buoyancy (LNB) and the level of maximum detrainment (LMD). Both models and observations show departures from LNB depend on storm morphology, season and geographical region.

Light refreshments will be served at 1:30pm in E424A.



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