

Extreme Weather for Climate Models

Under MAP funding we have developed new cloud schemes for global models of weather and climate that can simulate graupel and hail formation at high resolution. The figures show the frequency of occurrence of graupel in a high resolution 14km (9 miles) per grid cell model.

These new codes will enable better understanding of extreme weather events in global climate models.

Gettelman, A., H. Morrison, K. Thayer-Calder, and C. M. Zarzycki. "The Impact of Rimed Ice Hydrometeors on Global and Regional Climate." *Journal of Advances in Modeling Earth Systems*, (2019). <https://doi.org/10.1029/2018MS001488>.

Graupel Frequency

