

1086-H5-1178 **Martin E. Walter*** (martin.walter@colorado.edu). *Earthquakes, Weatherquakes and Logicquakes in the College Mathematics Curriculum.*

We will explain how the following statement can be made more precise and proved: A modest increase in global air temperature will most likely yield an immodest increase in extreme weather events, such as tornadoes, floods, droughts and so on. This theorem can be taught in any first semester calculus course, and a version of it could be presented in a high school or liberal arts math class. We will also show how simple logical considerations can help us make certain important decisions. (Received September 19, 2012)