1050-86-107   **Mary Lou Zeeman*** (`mlzeeman@bowdoin.edu`), Dept. of Mathematics, Bowdoin College, 8600 College Station, Brunswick, ME 04011. *Introduction to the Mathematics of Climate Change.*

We will describe some of the essential observations and physical processes of climate change, and introduce a few simple models that begin to give intuition for the historical data, the earth's radiative energy balance, and the ice-albedo and greenhouse gas feedback processes. We will also illustrate the wide range of mathematical challenges and opportunities in climate change research, with a few examples. (Received March 01, 2009)