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Clint Dawson* (clint@ices.utexas.edu), 201 E. 24th St. Stop C0200, University of Texas at Austin, Austin, TX 78712. *Mathematics of the Coastal Ocean*.

In this talk, we will discuss mathematical modeling issues arising in coastal ocean applications. In particular, we will describe different models for wave propagation, and how these models are used for understanding tides, waves, hurricane storm surge, tsunamis, and other phenomena. We will also discuss how these models are solved numerically, and give several examples of how data are used to inform and validate models. (Received September 09, 2014)