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Using Calculus to Model Aspects of the 2010 Gulf Oil Spill. Preliminary report.

We will describe a series of short group projects themed on the 2010 gulf oil spill. In these group projects, we use data on the oil spill to motivate explorations of area, volumes, sums, and differential equations. This leads to discussions of why systematic processes are useful, what types of scientific information are needed to build a reasonable model, and the difference between experimental and computational sources of error. (Received September 22, 2010)