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Judith Moran* (judith.moran@trincoll.edu), Aetna Quantitative Center, Trinity College, Summit Street, Hartford, CT 06106. *Using QL Modules to Analyze and Present Large Data Sets in a Winter Ecology Course*. Preliminary report.

Trinity College faculty members Judith Moran Director of the Quantitative Center and Scott Smedley Professor of Biology have worked together preparing a series of three QL modules for Biology 111, Winter Ecology. As part of this course, students study micro-environments by placing thermal loggers in selected locations at a field site. The goal of these modules is to give students the mathematical skills they need to analyze the large data sets consisting of hourly temperature readings that are collected and recorded by each thermal logger over a period of several months. The three QL modules are: 1) Introduction to Excel spread sheets and graphing, 2) Mechanisms of interpreting, critiquing and presenting graphs, 3) Statistical significance and hypothesis testing using t-tests. Materials from the QL modules and examples of the final student data analyses and presentations will be distributed. (Received September 21, 2009)