1035-B1-799 **Pam Crawford*** (pcrawfo@ju.edu), Department of Mathematics, Jacksonville University, 2800 University Boulevard North, Jacksonville, FL 32211, and **Anne Acker** and **Daniel Mc Carthy**. S³: Sand, Surf, and Slopes - Integration of Marine Science (and Computing Sciences) into Precalculus. Preliminary report.

Jacksonville University is located on the St. Johns River in Jacksonville, Florida, approximately 10 miles from the Atlantic Ocean. Marine Science is one of our most popular majors. We are participating this year in a new program, Freshman Interest Network (FIN), that links freshman courses to create learning communities. Each of us has the same set of students in our linked course. Our FIN course is titled S³: Sand, Surf, and Slopes and links three existing freshmen-level courses - MSC 101 Introduction to Marine Science, CS 150 Personal Productivity Using Technology, and MATH 110 Mathematics of Motion and Change. In this talk, we will discuss the integration of Marine Science (and Computing Sciences) into an existing Precalculus course, and vice versa, through the use of mathematical applications, biological experiments, and software to fathom the mysteries of the deep. We will talk about Precalculus course projects such as the use of the Hawaiian Islands to study plate tectonics via linear regression, and the use of ocean waves to study periodic functions. Also discussed will be Implementation of the links, assessment of student performance in the courses, and student reaction to the Precalculus projects and the linked courses. (Received September 15, 2007)