## **EKT Strategies**

- Big 5 year ideas? CSDMS buckshot.....or CSDMS canon
- Educational Toolbox
- Research Experience for Undergraduates (REU) at CSDMS
- CSDMS Designs Quantitative Models for National Park Displays
- Pioneer Workshop for an effort of CSDMS scientists STEM Teachers on getting earth surface dynamics examples into Calculus courses and textbooks.

## Quantitative Surface Dynamics **Educational Toolbox** Address STEM Skills: Creative data mining GIS data, mapping Address STEM Skills: Plotting X,Y,Z Conservation of Mass, Int/Deriv, 1D-2D-3D Input Input Advanced Concept to **Animation** Slider Model Equation Model Output Output STEM Skills: Data analysis Units, Statistics

Assessment Tool Before/After

Documentation
Student/ Teachers

**Assessment Tool** 

Documentation

**Assessment Tool** 

Documentation

**Assessment Tool** 

Documentation

## Advertize & Teach Educational Tools

- EKT repository link to SERC website
- Make it very easy to find and contribute products (web-forms/database)
- Cutting Edge / SERC or NCED Course to advertize to larger masses of undergraduate teachers
- Identify early adopters who help evaluate the educational tools
- Training to K12 Teachers?
- -Advertize at GSA
- -Use Earth-Ocean-Climate Literacy Principles for prioritizing model to be incorporated into CSDMS Educational Repository
- -Incorporate explicit opportunities for Broader Impacts for CSDMS members!
- More intimate connection to science models, CSDMS IF facilitates wrapping of models into educational models (funds need to be allocated).