STM progress 11-3-09

1. Overview of what code has been submitted to date

Working diffusion code has been submitted

Kaveh is working on the migration to the modular framework Eli designed.

1. Status of code submitted by UCD (does it compile, is it running, can you follow it, are variables clearly defined, are there sufficient comments?)

It does compile and run. I can follow it and variables are clear to me. The comments are sufficient because the code is still in the early stage, i.e., the code is not complicated.

Output is written for analytical test, but test is not a separate unit testing code. Result must still be compared by hand.

1. What advances have UCD made on modifying the code to our requested specifications

Our requests:

* 1. Modular codes and unit tests using Eli’s framework.
  2. Numerical schemes and codes for multi-channel junctions.
  3. Automatic document generation using doxygen.
  4. Sediment transport specific codes and empirical parameters from data collections and analyses.

Current progress:

1. Kaveh is working on migrating to modular codes.
2. Kaveh is working on single channel code.
3. Kaveh is working on doxygen.
4. ?
5. What work still needs to be done on the code to meet our requested specifications
   1. Migrate to Eli’s framework.
   2. Implement unit tests.
   3. Generalize the code for multi-channel junctions.
   4. Implement automatic document generation.
   5. Implement sediment transport equations and determine empirical parameters from data collections and analyses.
6. Other suggestions and observations

Kaveh is working hard on this project but there are other priorities for graduate students. We also want him to spend time in sediment transport research, exams, homework, and class projects. So he can succeed in academia.

Quality of code is more important than quantity at this time. We would rather see slower progress on solidly tested code than faster progress on untested code.