# Contributing source code to CSDMS

**Albert Kettner** 

### Contribute source code (1)

 Submit your model questionnaire



- Choose a license!
  - And add it to your code



- CSDMSsupport@colorado.edu
  - No language requirements
  - No code structure requirements



### Module meta data

http://csdms.colorado.edu/wiki/Models

## Contribute source code (2)

- 1) Properly <u>licensed</u> (GPL2 compatible; OSI approved);
- 2) Community vetted (e.g. Working or Focus Research Group);
- 3) Open source and stored in the CSDMS Model Repository;
- 4) Written in a CCA supported open-source <u>language</u> (C, C++, any Fortran, Java, Python), (Note: IDL & Matlab can be made compatible)
- 5) Refactored with a programming interface compatible with CSDMS (e.g. initialize, run, finalize),
- 6) Source code <u>annotated</u> using special keywords within comment blocks to provide basic metadata for the model and its variables.
- 7) Model description with test files (input, output),
- 8) Provides all input & output *exchange items*
- 9) Clean code that is properly documented

### **CSDMS-IF**

- Check if code compiles/runs on the CSDMS HPC
- Test model run (input data needed)
- Verify if run is successful (example output data needed)

# Model availability

- 1. CSDMS stable repository

  - Download link added at model page

#### 2. Subversion



- Version control
- 1 or more software developers

### **Statistics**

- Source lines of code (SLOC)
- # of downloads

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