Example: Global Hydrological Forecast System (eWaterCycle)

- Global @ 10Km resolution (for now)
- GFS Ensemble Forcing
- H-SAF Soil moisture observations
OpenDA

- Open Source data-assimilation toolbox
- LGPL, Java

http://www.openda.org
Basic Model Interface (BMI)

• From CSDMS project, now on its way to being standardized

• void initialize (string config_file)
  void update (double dt)
  void finalize ()
  get_value (string var_name)
  set_value (string var_name)

+grid + time + units info
+not much else

Source Code: https://github.com/csdms/bmi

Python, Fortran, C, Java, etc...