EarthCube Building Block for Integrating Discrete and Continuous Data (DisConBB)

NSF ICER-1343785
Duration: Sept 2013 - Aug 2015

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http://earthcube.org/group/discrete-continuous-data-disconbb

EarthCube All Hands Meeting
Arlington VA, May 27-29, 2015
National Flood Interoperability Experiment (NFIE): Connect national scale flood modeling with local emergency planning and response

1. How can near-real-time hydrologic simulations at high spatial resolution, covering the nation, be carried out using the NHDPlus or next generation hydro-fabric (e.g. data structure for hillslope, watershed scales)?

2. How can this lead to improved emergency response and community resilience?

3. How can an improved interoperability framework support the first two goals and lead to sustained innovation in the research to operations process?
NFIE Forecasting Models...

Weather model and forecasts (HRRR)

Probabilistic flood forecasts

3km average Catchment-level forecasts

Weather ➔ Precipitation ➔ Runoff ➔ Streamflow

Land-Atmosphere Model (WRF-Hydro)

RAPID flow routing (for continental US)
Thanks!
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