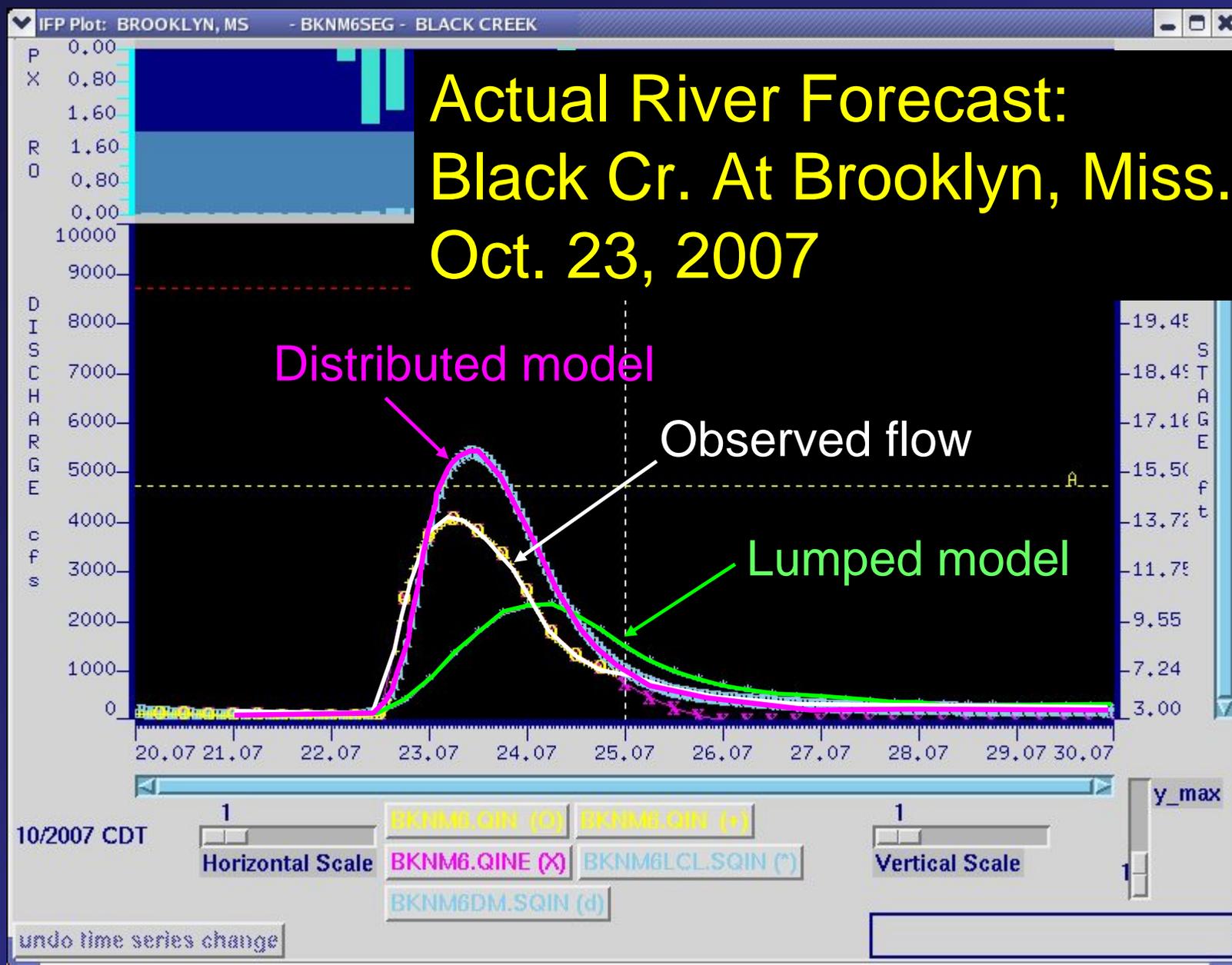# Implementation Overview

- Use with, not instead of, lumped model at same time step
- Part of natural progression to finer scales

Lumped 6-hr ⟶ **Lumped 1-hour** ⟶ **Distributed 1-hour**

- Calibration is good training process for forecasting
- Current:
  - **DHM: operation in NWS for headwaters, locals**
  - **HL-RDHM: Large area, soil moisture, FFG, etc**
- Feedback to OHD

Distributed Modeling for Operational River Forecasts

Actual River Forecast: Black Cr. At Brooklyn, Miss. Oct. 23, 2007

Distributed Modeling for Operational River Forecasts: How to Measure Improvement?

"Once again, the DHM simulation of Sabino Creek (highlighted in white) almost perfectly matched the observed. With no Mods, it outperformed our 1-hourly lumped model, which required adjustments to the Unit Hydrograph and Mean Areal Precipitation"
-Ed Clark, Colorado Basin River Forecast Center 12/2007