3-Step Calibration Procedure **FAST Parameter Sensitivity Analysis** Parameters for calibration Part 1: byHRU Calibration Calibration Datasets: **RUN** Calibration AET order SCA determined SOM by FAST **RCH** Optimized Parameters by HRU Part 2: byHW Calibration (byHRU_noroute and byHRU_musk) Flow volume Calibration Dataset: Step 1 Statistically generated streamflow RUN High ΑII **AET** Step All a flows SCA SOM Step 3 **RCH** Low flows Optimized Parameters by HRU/HW Part 3: byOBS Calibration (byHRU_noroute_obs and byHRU_musk_obs) Calibration Dataset: Measured streamflow Optimized Parameters by HRU/HW/OBS

Figure 3. Schematic showing the 3-part calibration procedure