

Supplementary materials: A Deep U-Net-ConvLSTM Framework with Hydrodynamic Model for Basin-Scale Hydrodynamic Prediction

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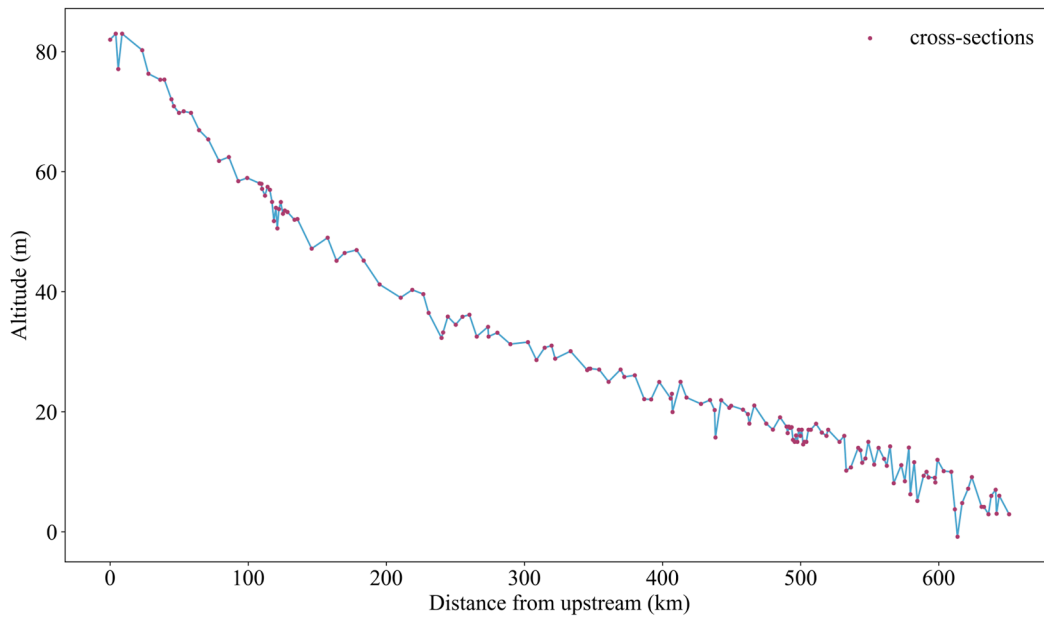


Figure S1. The thalweg of river in the middle and lower reaches of the Han River (Danjiangkou Reservoir as the upstream starting point).

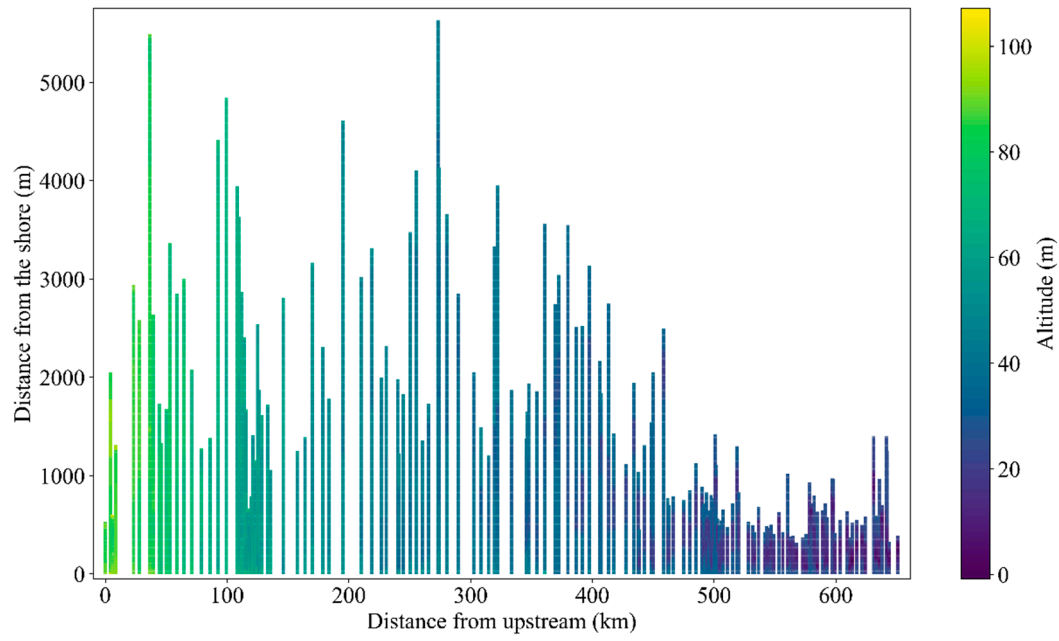


Figure S2. Schematic distribution of channel section elevations in the middle and lower reaches of the Han River.

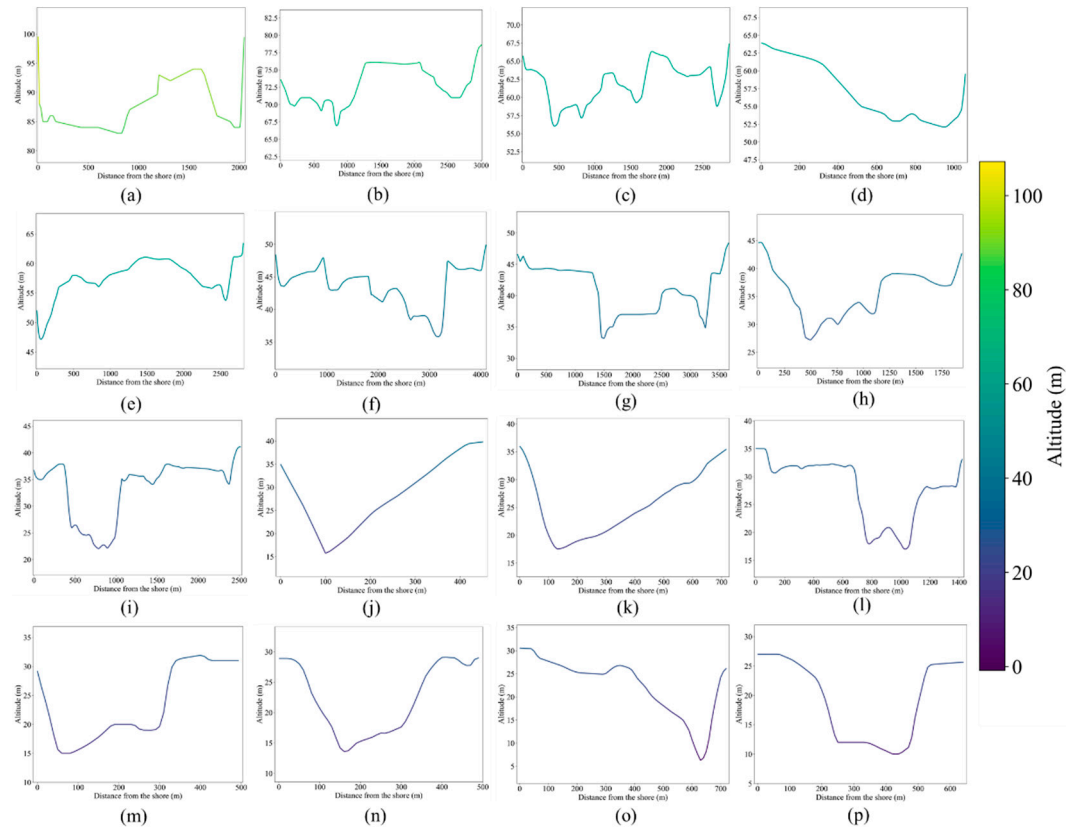


Figure S3. Elevation dispersion in certain cross-sections of the middle and lower stretches of the Hanjiang River (a) 2 (b) 14 (c) 23 (d) 36 (e) 37 (f) 52 (g) 57 (h) 67 (i) 74 (j) 84 (k) 97 (l) 106 (m) 109 (n) 121 (o) 134 (p) 144 (cross-sections numbering, starting at 1 and increasing from upstream to downstream)

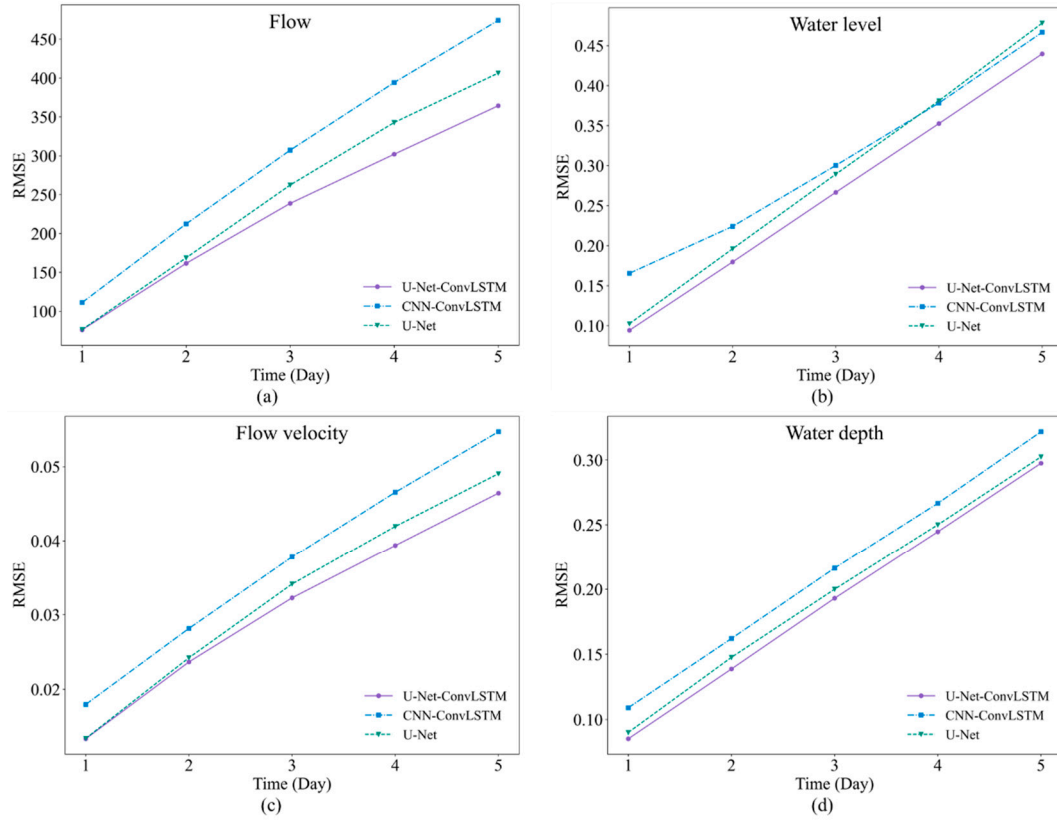


Figure S4. Trend of RMSE of U-Net-ConvLSTM, CNN-ConvLSTM and U-Net with prediction span in multi-step-ahead forecasting mode (a) Flow (b) Water level (c) Flow velocity (d) Water depth.