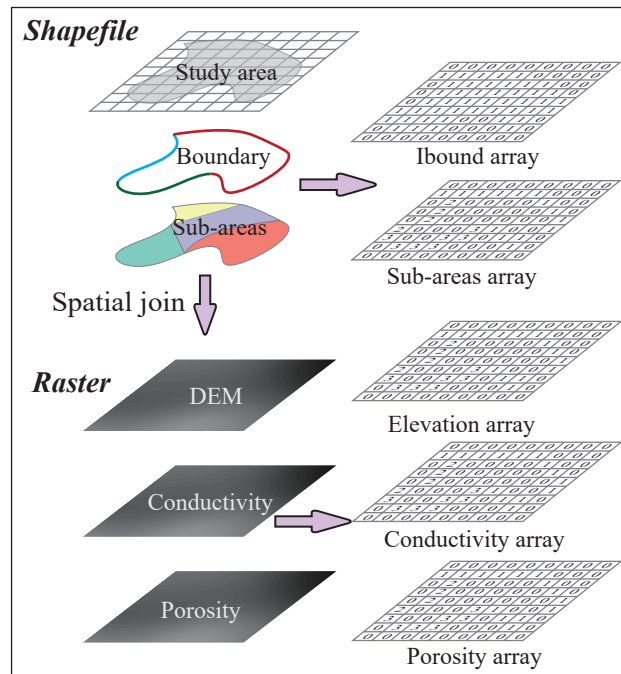


(a) Pre-processing geographic information



(b) The spatial scheme of the coupled model

