Table S1 Transect information in seven province

Province	Number of Province	Forest Type
AnHui	43	Mixed coniferous and broad-leaved forest; Deciduous broad-leaved forest;Shrub
HuBei	68	Mixed coniferous and broad-leaved forest; Deciduous broad-leaved forest
HuNan	5	Mixed coniferous and broad-leaved forest; Deciduous broad-leaved forest
ShanXi	10	Mixed coniferous and broad-leaved forest
ChongQing	4	Deciduous broad-leaved forest
Guizhou	15	Mixed coniferous and broad-leaved forest; Deciduous broad-leaved forest
HeNan	76	Mixed coniferous and broad-leaved forest; Deciduous broad-leaved forest

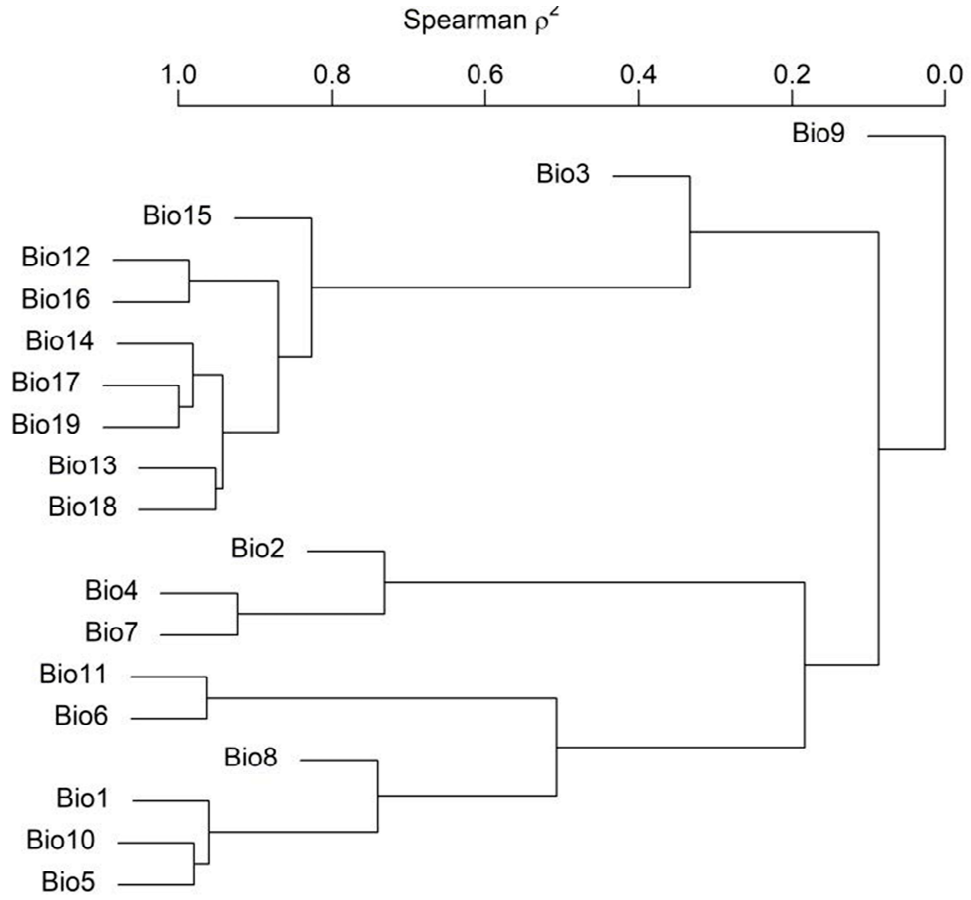


Figure S1. Cluster analysis of the environmental variables.

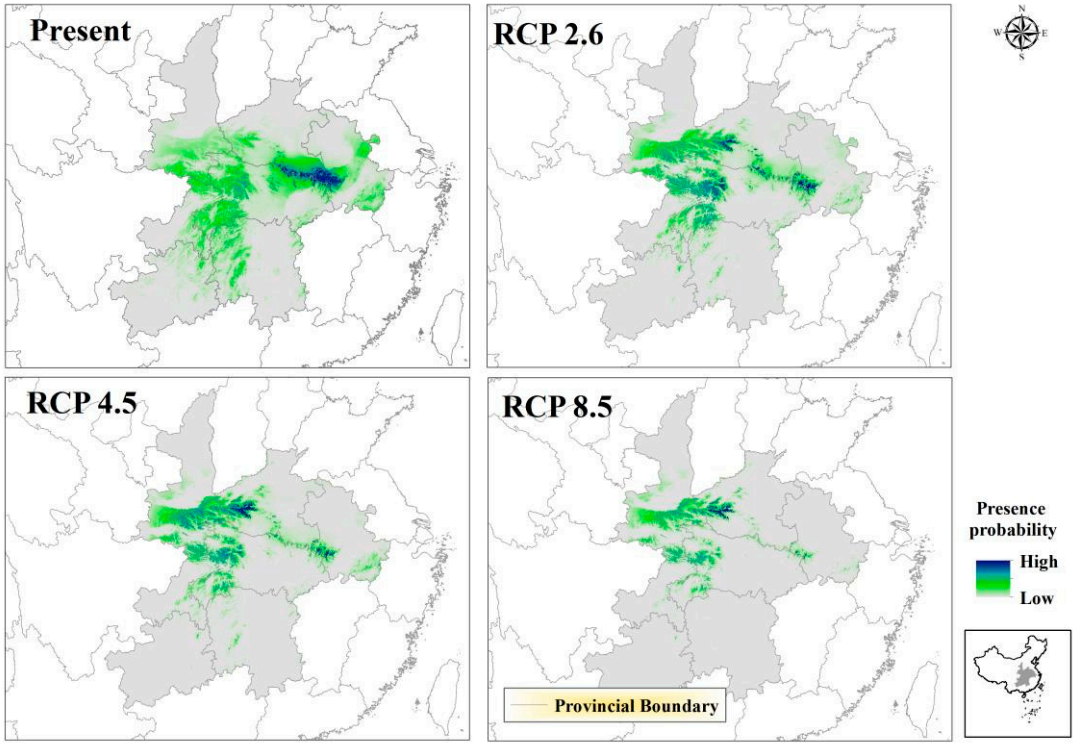


Figure S2. Presence probability distribution maps for *Syrmaticus reevesii* under current and future (RCP 2.6, RCP 4.5, and RCP 8.5 in 2070) environmental conditions, simulated by SDMWT (without the constraints of topography).

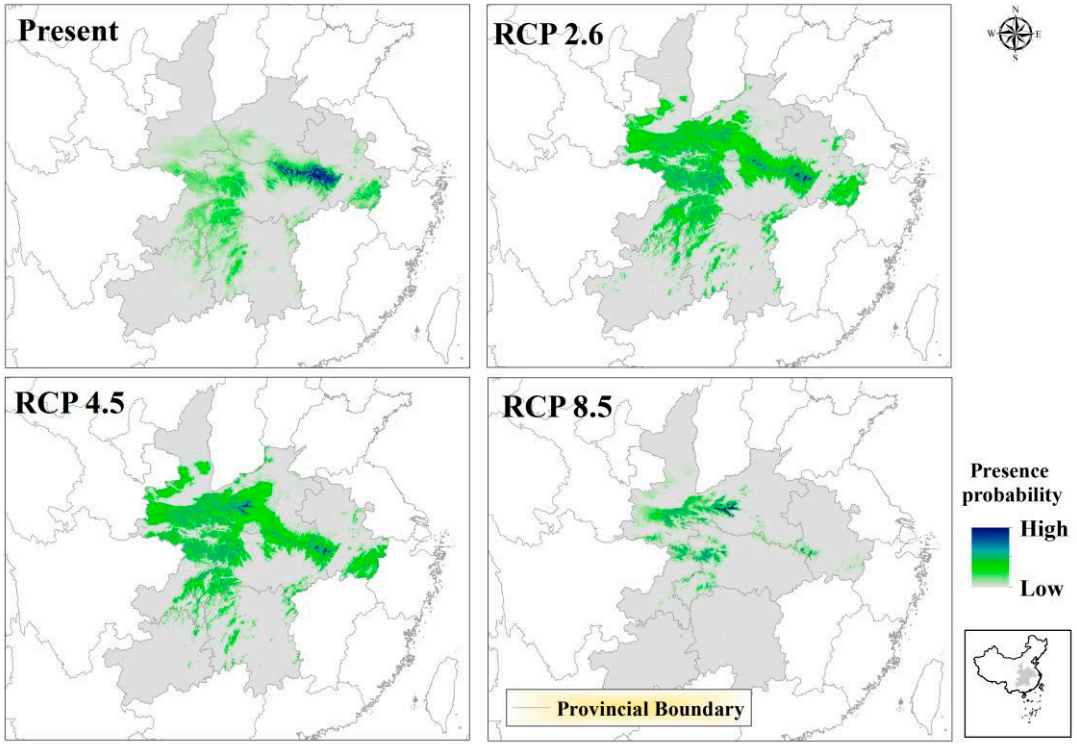


Figure S3. Presence probability distribution maps for *Syrmaticus reevesii* under current and future (RCP 2.6, RCP 4.5, and RCP 8.5 in 2070) environmental conditions, simulated by SDMT (with the constraints of topography).