

Supplementary

The response mechanism of COVID-19 spatial global distribution to eco-geographic variables

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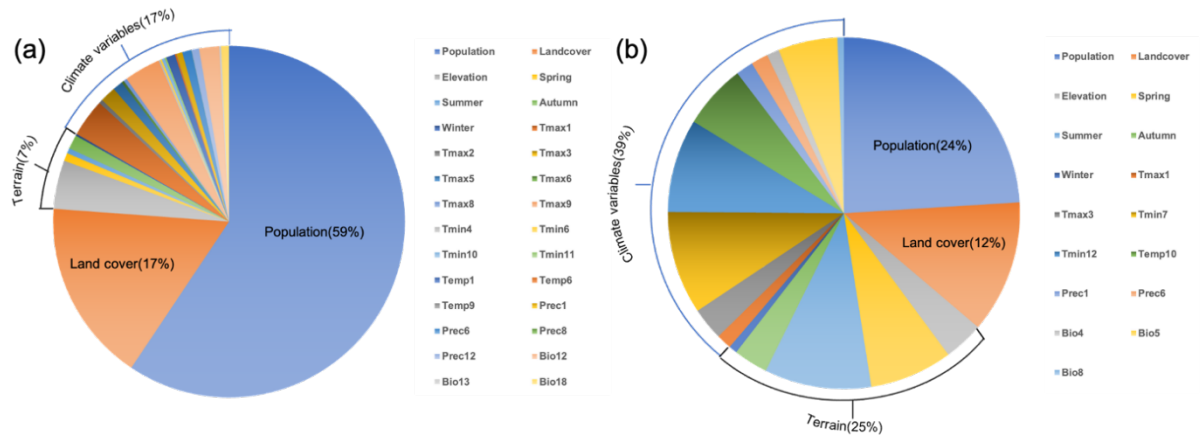


Figure S1. The percentage contributions of predictor variables in (a) altitude below than 1500m and (b) altitude above than 1500m.

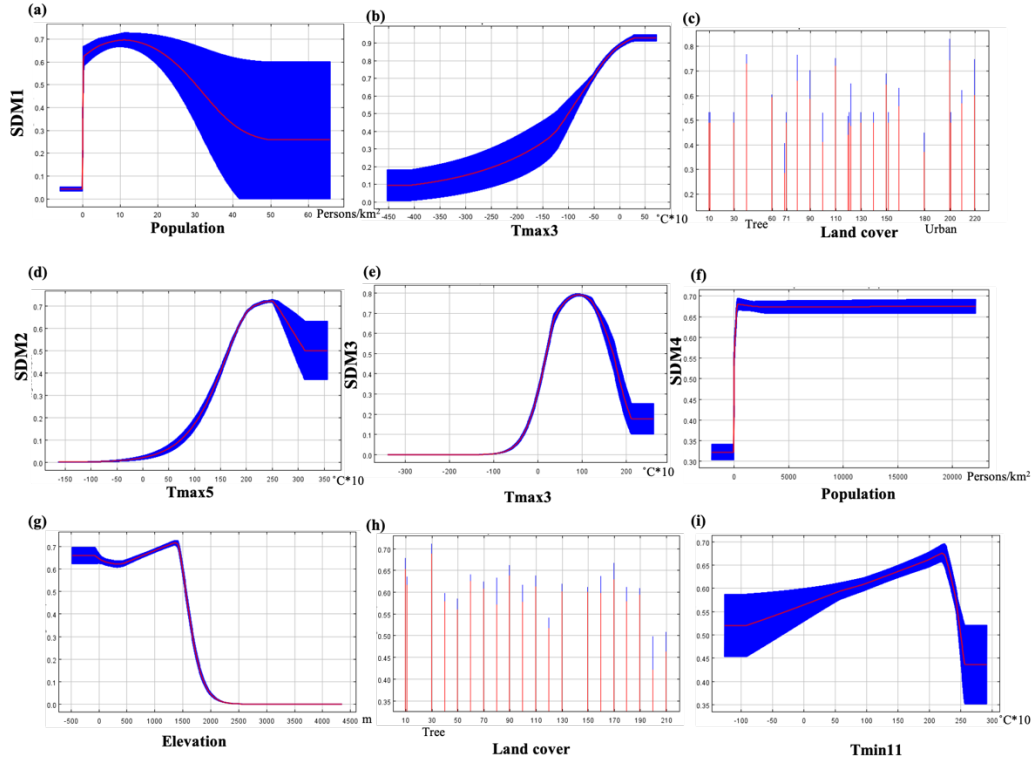


Figure S2. Analysis of COVID-19 distribution models' response curves with a contribution rate less than 70% in models were (a-c) SDM1, (d) SDM2, (e) SDM3, (f-i) SDM4.

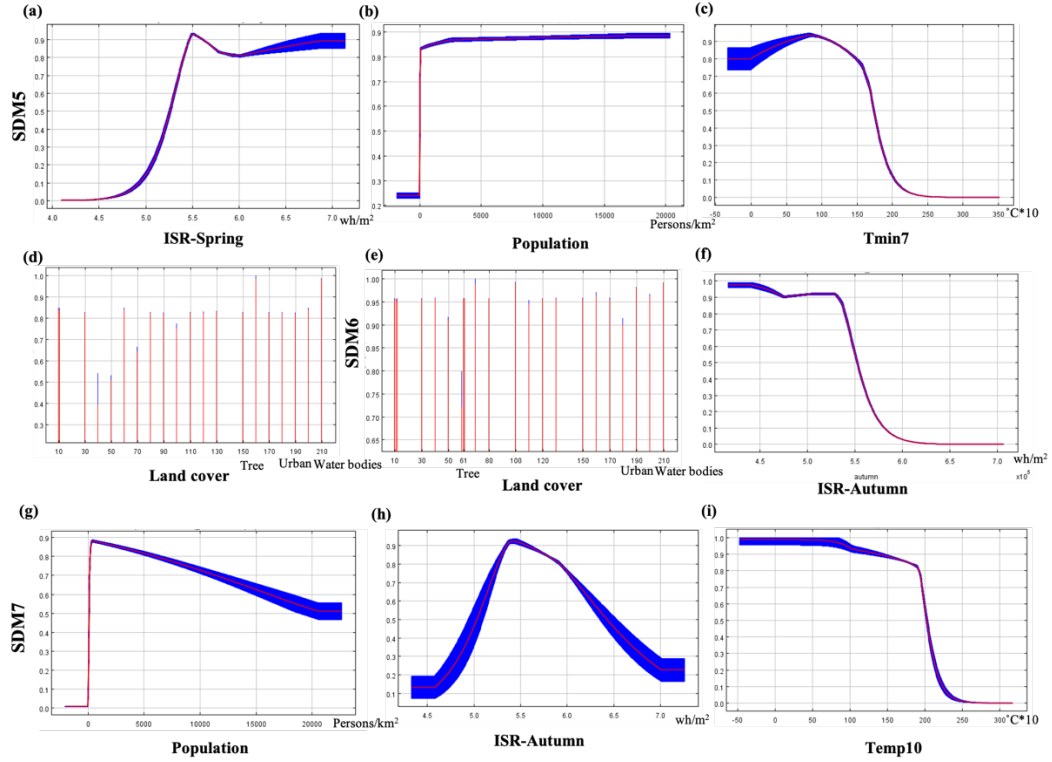


Figure S3. Analysis of COVID-19 distribution models' response curves with a contribution rate less than 70% in models were (a-d) SDM5, (e,f) SDM6 and (g-i) SDM7.

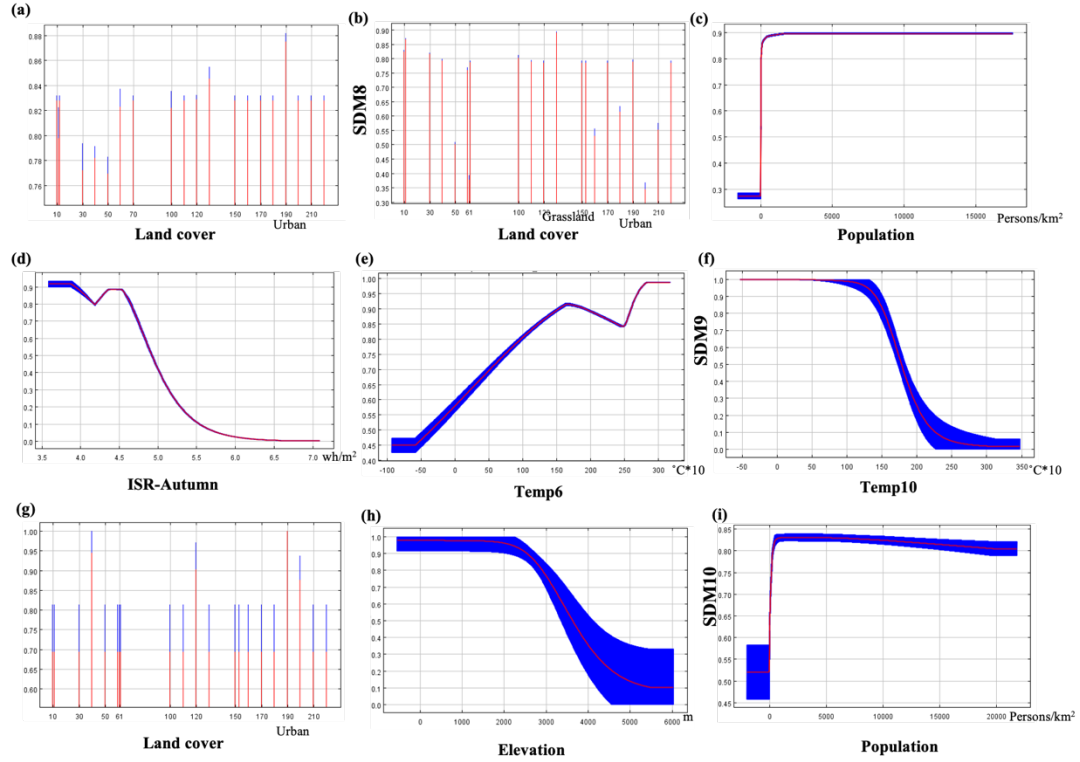


Figure S4. Analysis of COVID-19 distribution models' response curves with with a contribution rate less than 70% in models were (a) SDM7, (b-e) SDM8, (f-h) SDM9 and (i) SDM10.

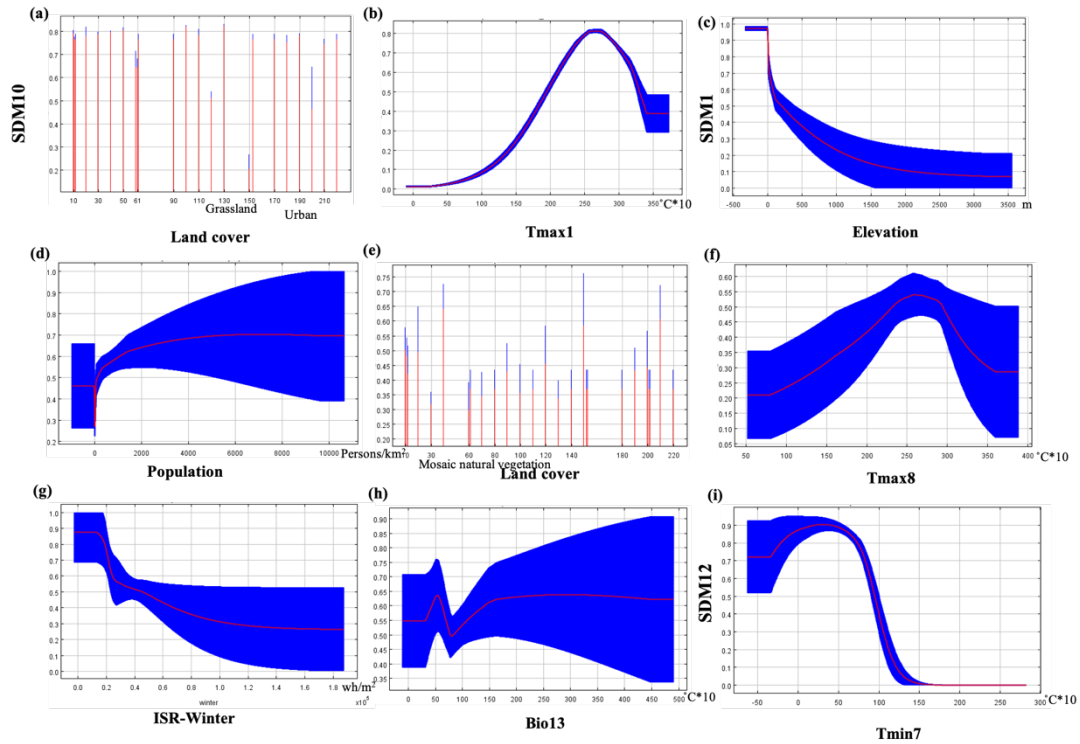


Figure S5. Analysis of COVID-19 distribution models' response curves with with a contribution rate less than 70% in models were(a,b) SDM10, (c-h) was SDM11 and (i) SDM12.

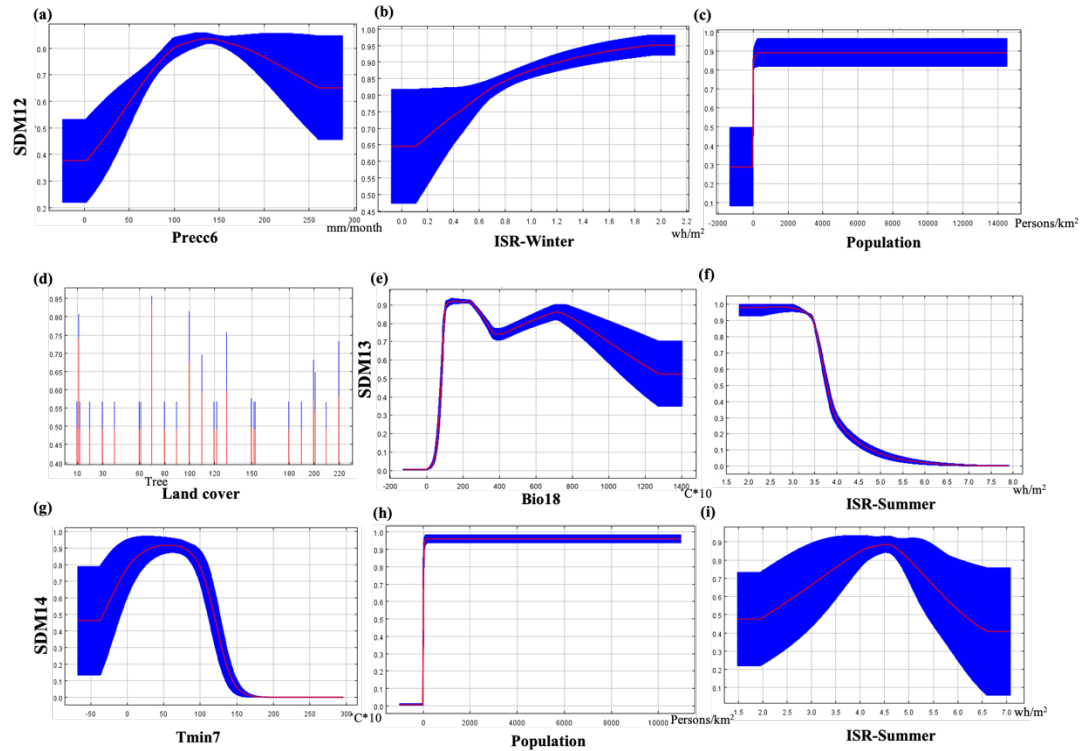


Figure S6. Analysis of COVID-19 distribution models' response curves with a contribution rate less than 70% in models were (a-d) were for SDM12, (e, f) SDM13 and (g-i) SDM14.

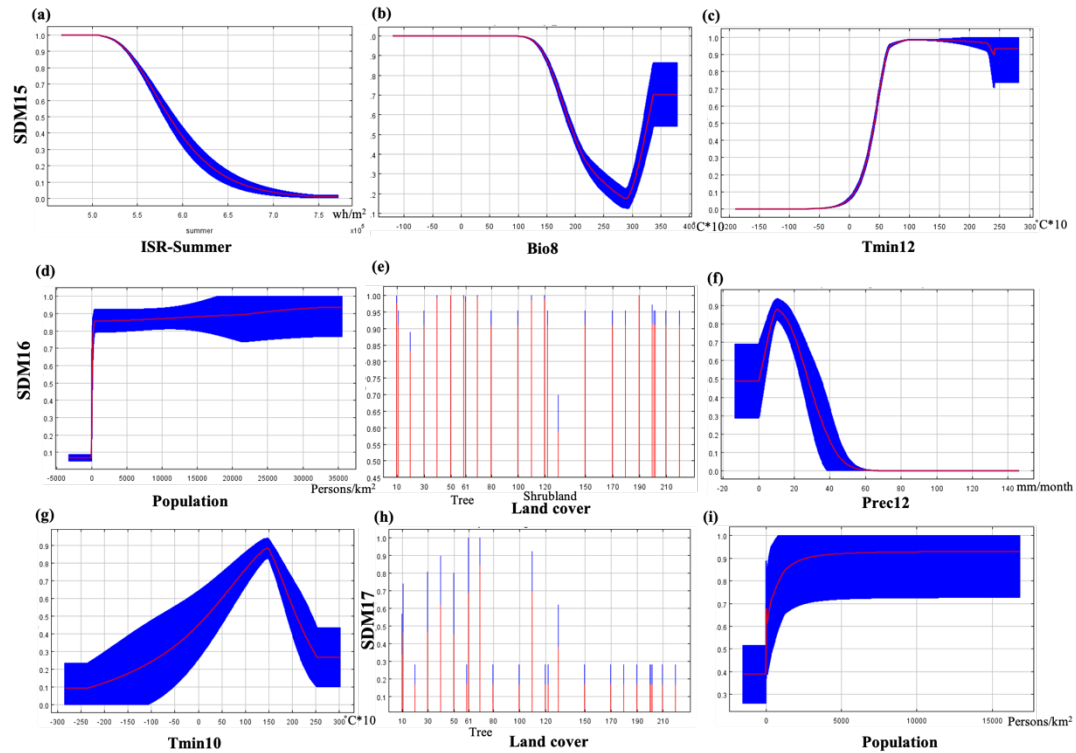


Figure S7. Analysis of COVID-19 distribution models' response curves with a contribution rate less than 70% in models were (a-c) were for SDM15, (d-g) was SDM16, (h,i) was SDM17.

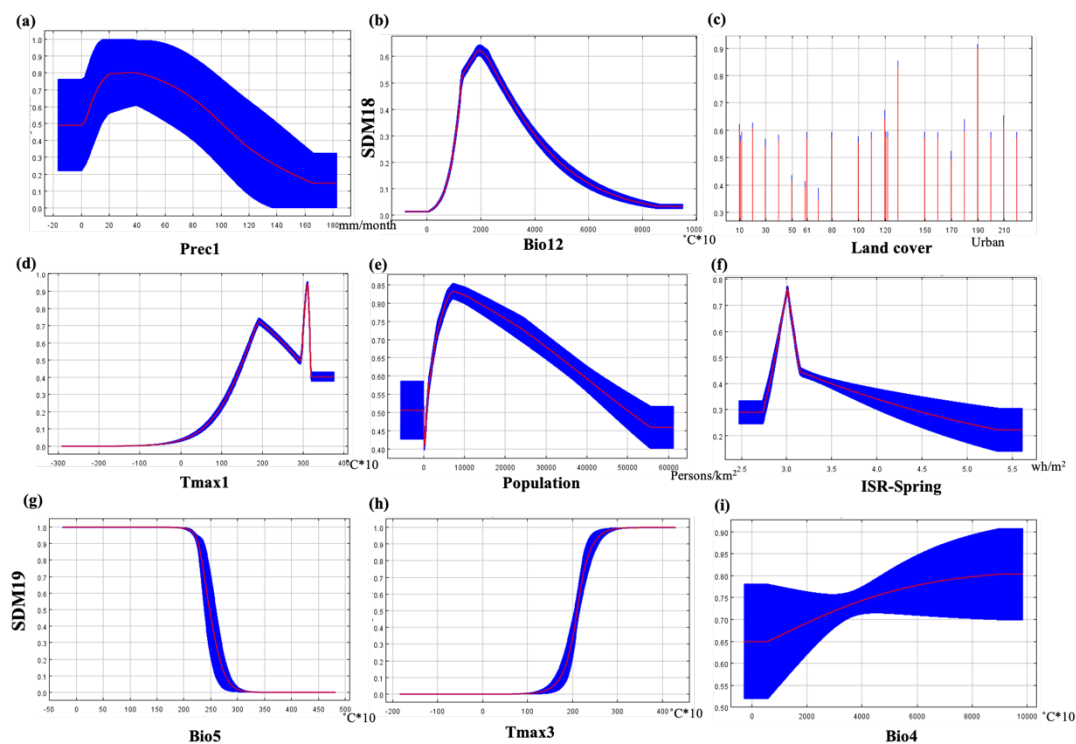


Figure S8. Analysis of COVID-19 distribution models' response curves with with a contribution rate less than 70% in models were (a) SDM17, (b-f) SDM18, (g-i) SDM19.

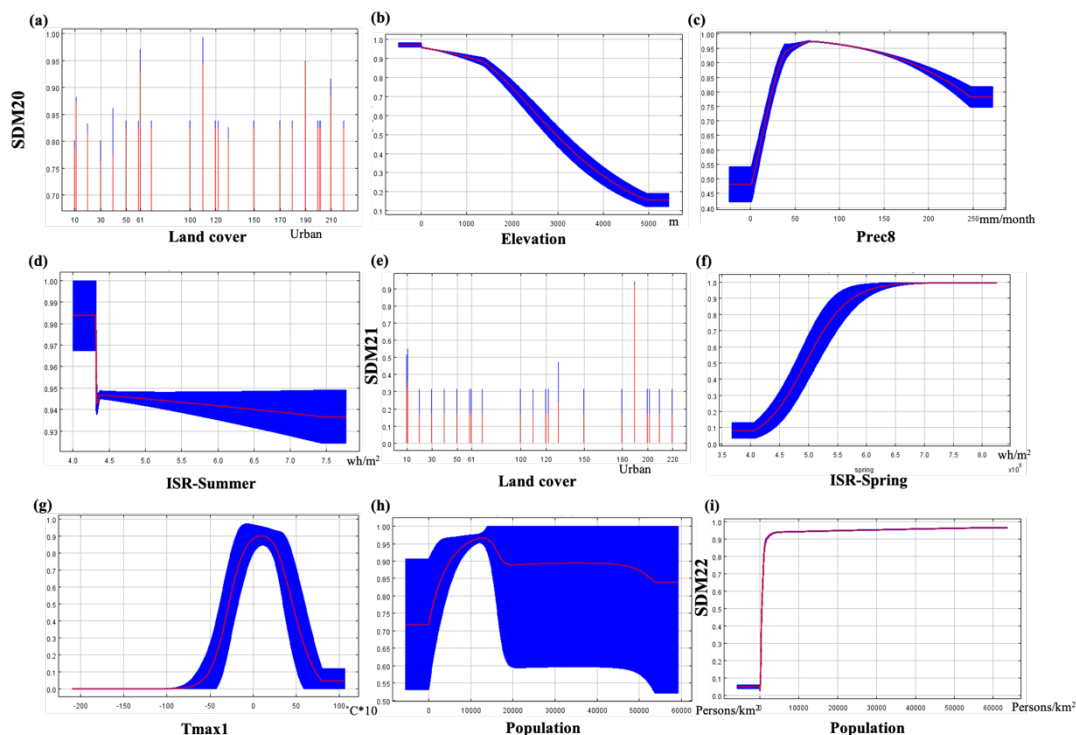


Figure S9. Analysis of COVID-19 distribution models' response curves with with a contribution rate less than 70% in models were (a-d) SDM20, (e-h) SDM21 and (i) SDM22.

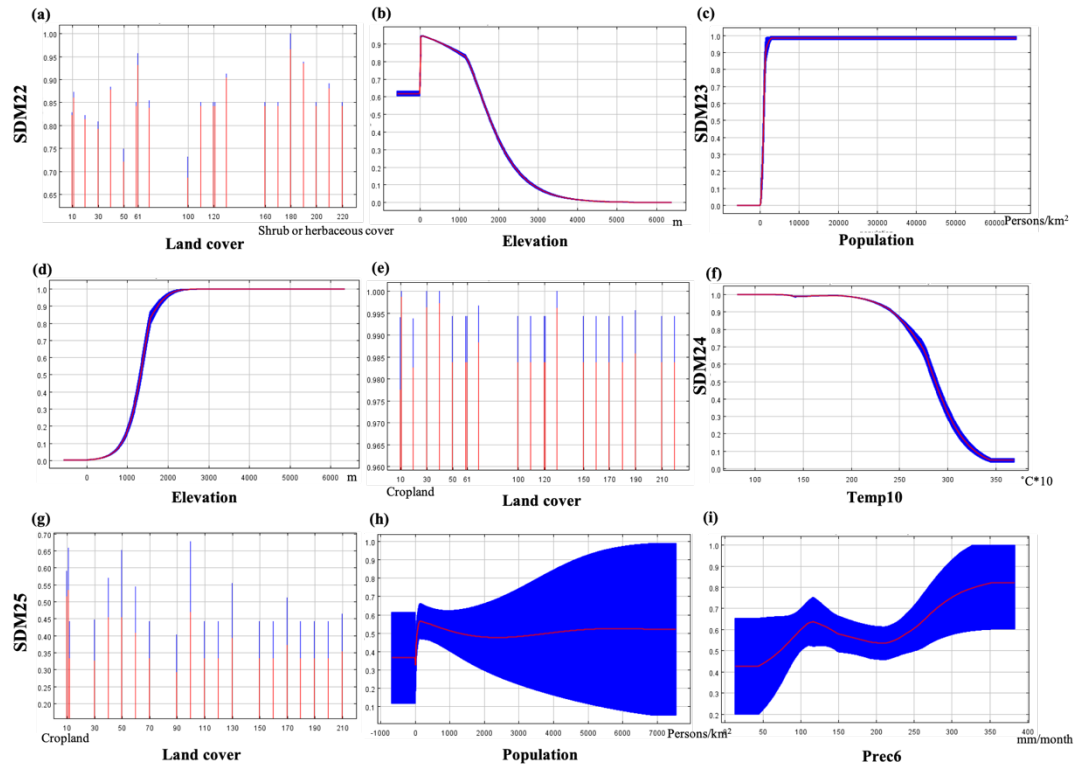


Figure S10. Analysis of COVID-19 distribution models' response curves with with a contribution rate less than 70% in models were (a-b) SDM22, (c-e) SDM23, (f) SDM24 and (g-i) SDM25.

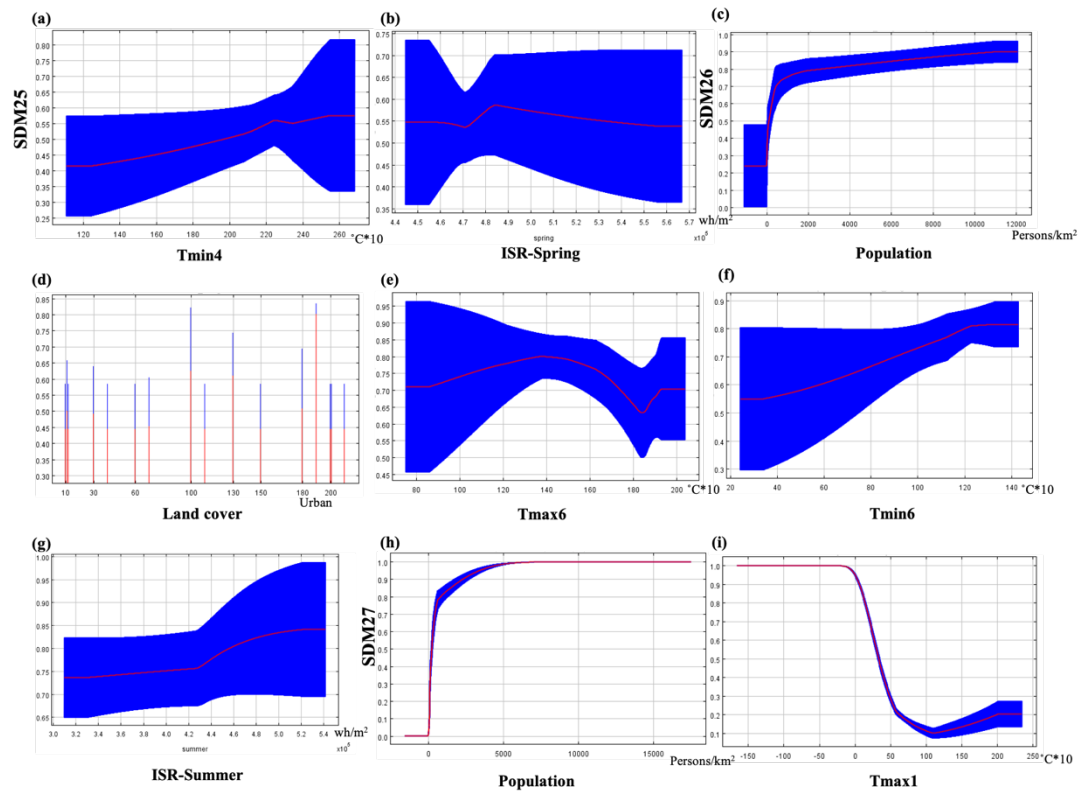


Figure S11. Analysis of COVID-19 distribution models' response curves with with a contribution rate less than 70% in models were (a,b) SDM25, (c-g) SDM26 and (h, i) SDM27.

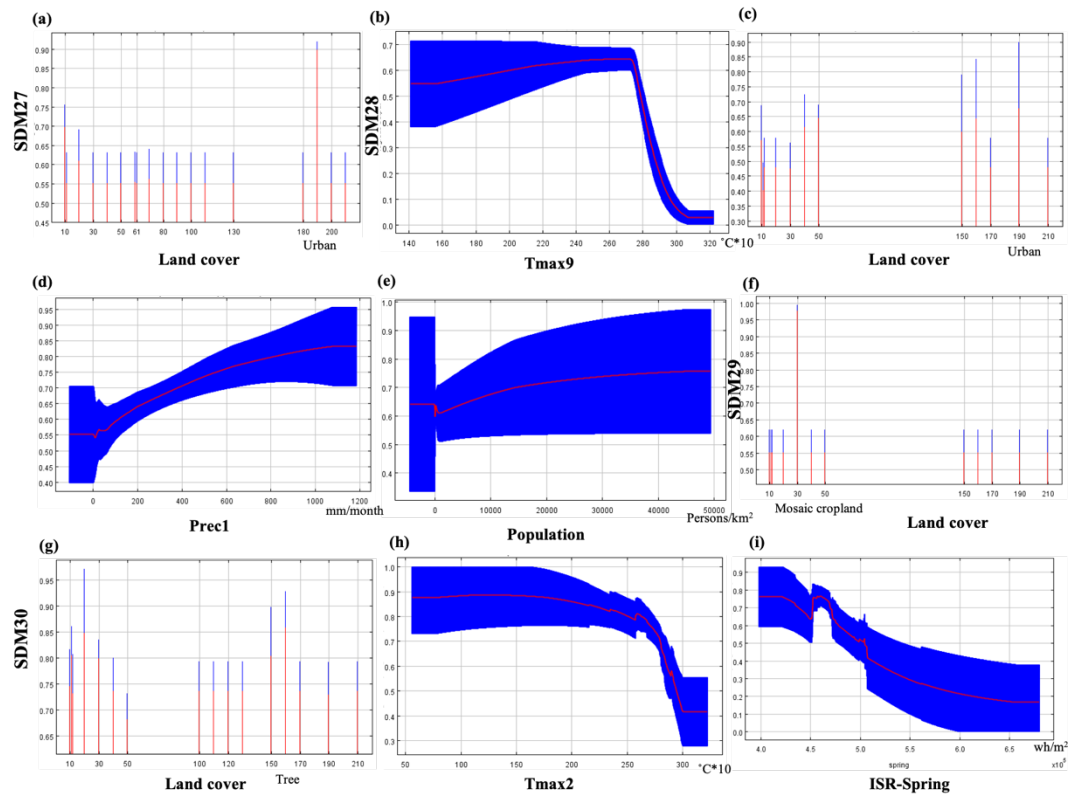


Figure S12. Analysis of COVID-19 distribution models' response curves with with a contribution rate less than 70% in models were (a) SDM27, (b-e) SDM28, (f) SDM29 and (e-i) SDM30.

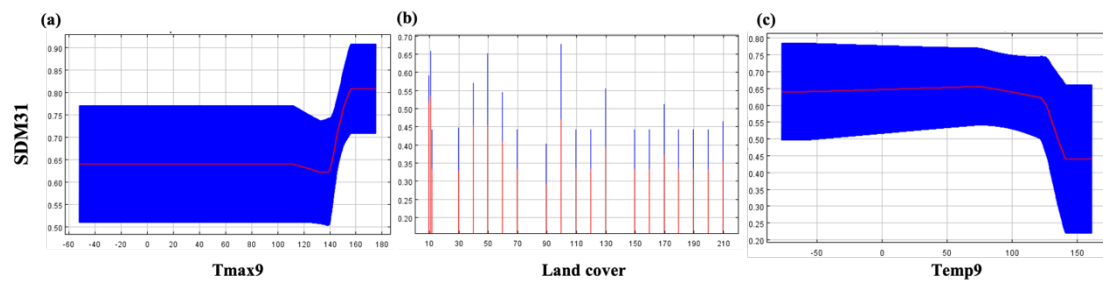


Figure S13. Analysis of COVID-19 distribution models' response curves with with a contribution rate less than 70% in 31 SDM31.

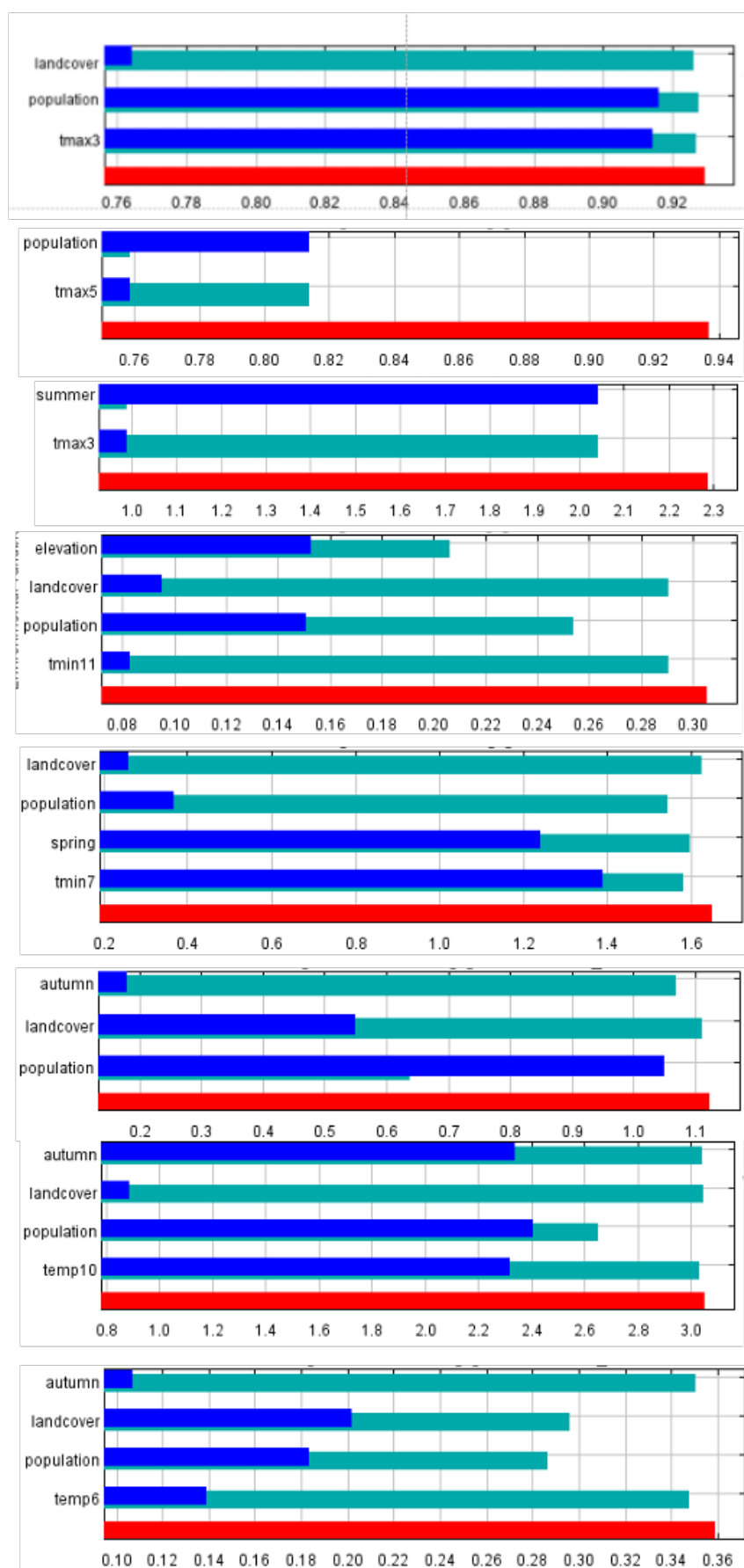


Figure S14. The Jackknife of SDM1-8

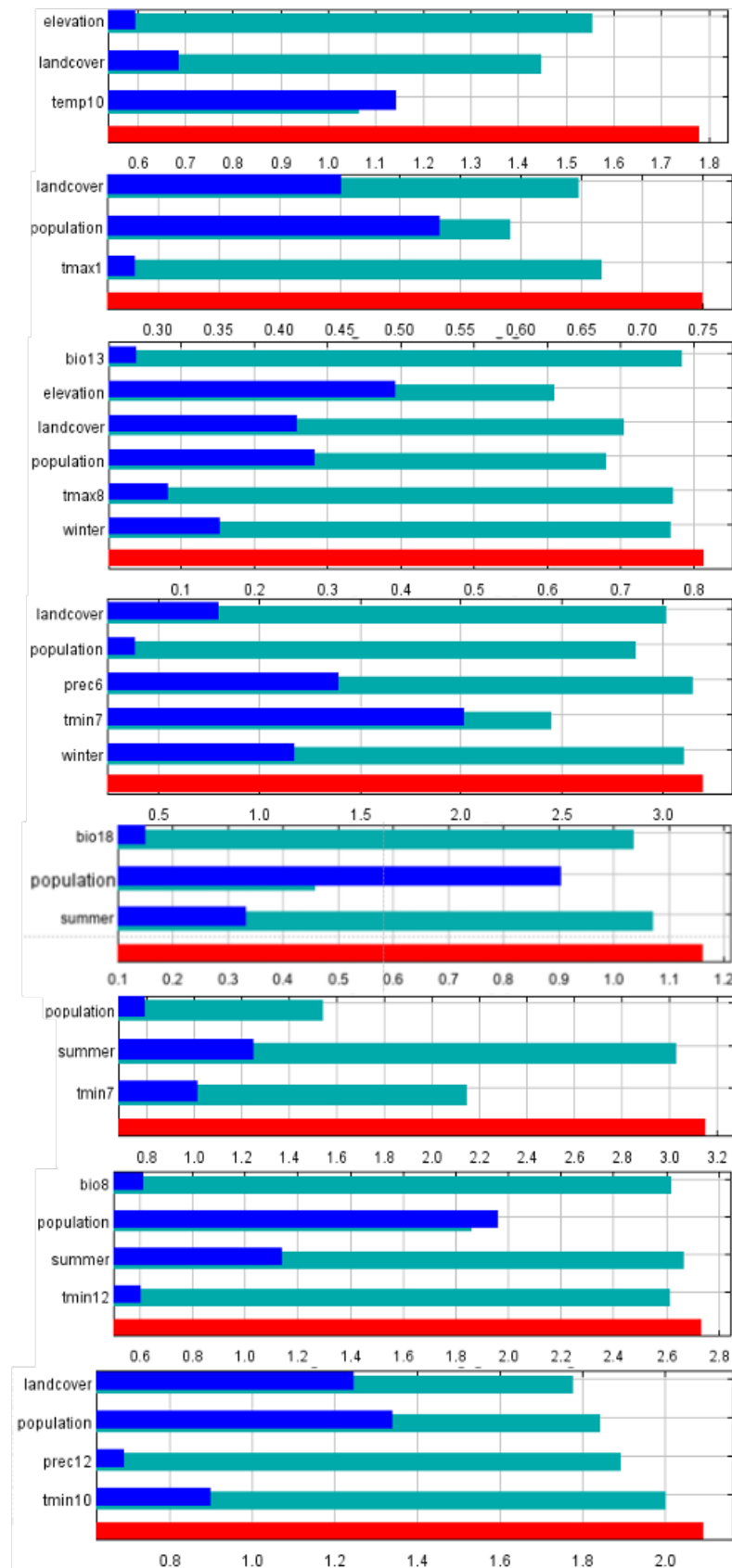


Figure S15. The Jackknife of SDM 9-16

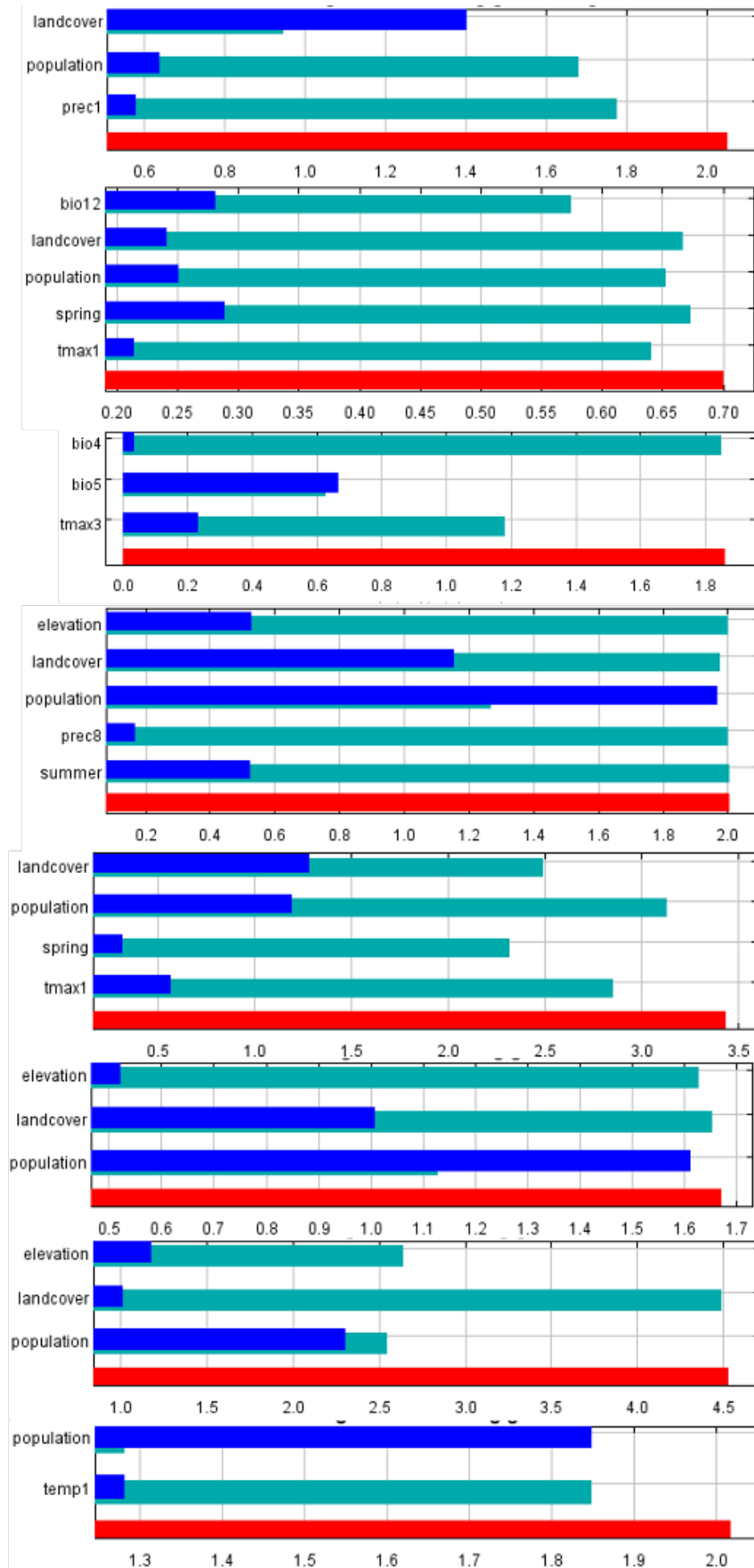


Figure S16. The Jackknife of SDM 17-24

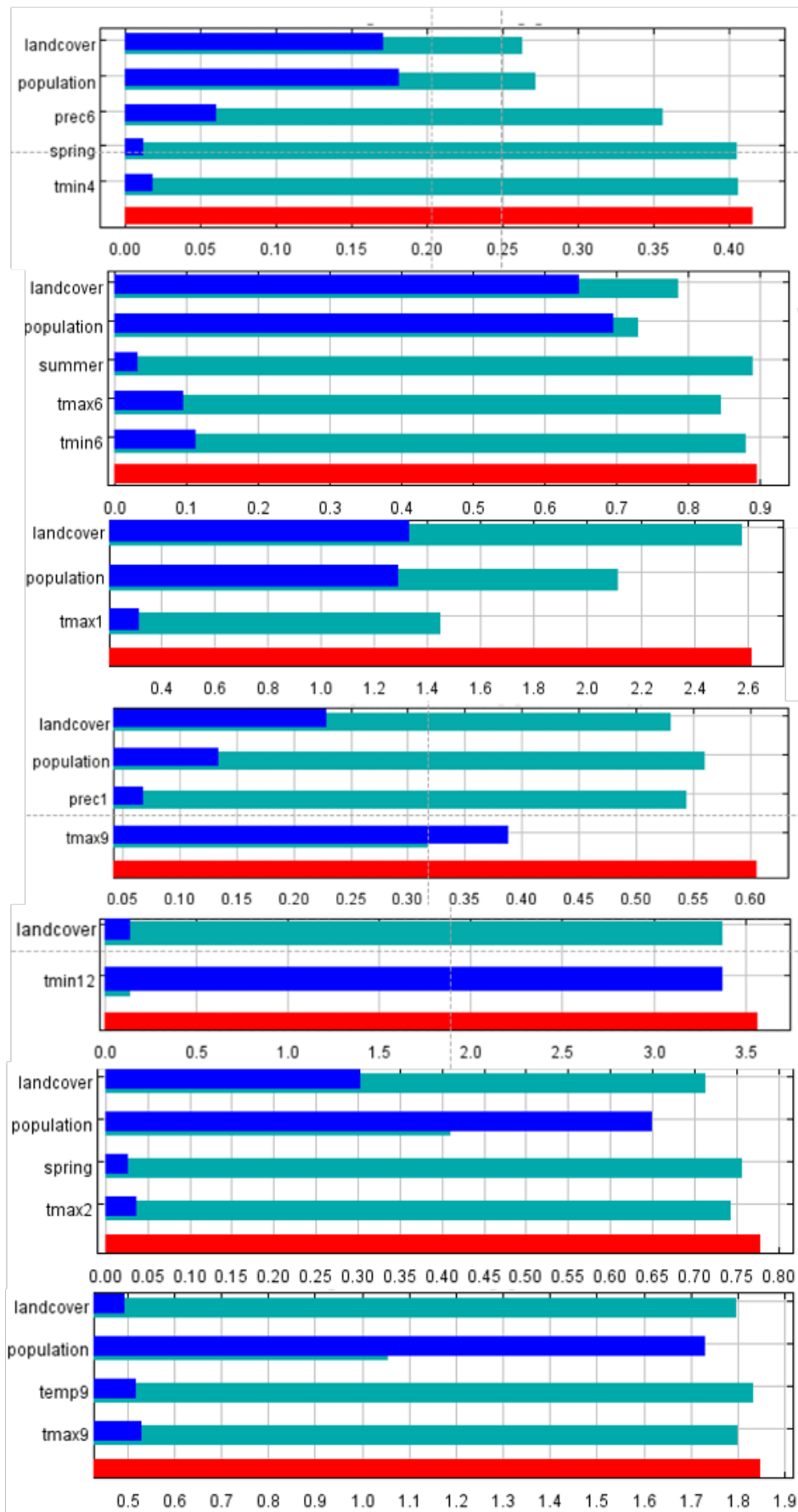


Figure S17. The Jackknife of SDM 25-31

Table S1 The meaning of 19 bioclimatic variables used in the MaxEnt models

Bio1	Annual Mean Temperature
Bio2	Mean Diurnal Range (Mean of monthly (max temp - min temp))
Bio3	Isothermality (BIO2/BIO7)
Bio4	Temperature Seasonality
Bio5	Max Temperature of Warmest Month
Bio6	Min Temperature of Coldest Month
Bio7	Temperature Annual Range (BIO5-BIO6)
Bio8	Mean Temperature of Wettest Quarter
Bio9	Mean Temperature of Driest Quarter
Bio10	Mean Temperature of Warmest Quarter
Bio11	Mean Temperature of Coldest Quarter
Bio12	Annual Precipitation
Bio13	Precipitation of Wettest Month
Bio14	Precipitation of Driest Month
Bio15	Precipitation Seasonality (Coefficient of Variation)
Bio16	Precipitation of Wettest Quarter
Bio17	Precipitation of Driest Quarter
Bio18	Precipitation of Warmest Quarter
Bio19	Precipitation of Coldest Quarter
