Supplementary Material.

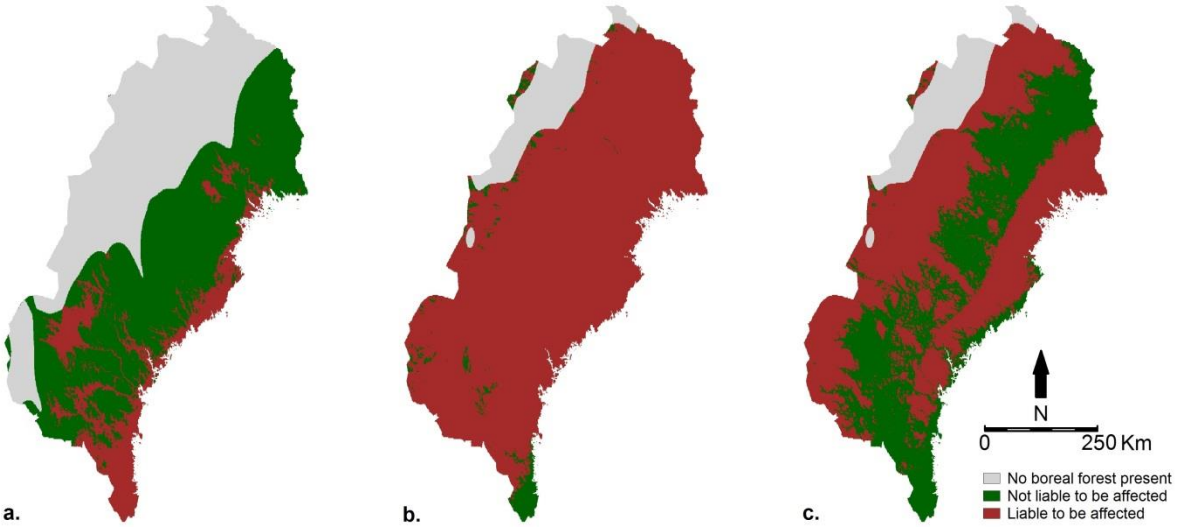

Figure S1: An indication of the geographic distribution of boreal forest that may be affected by *Acanthocinus aedilis*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

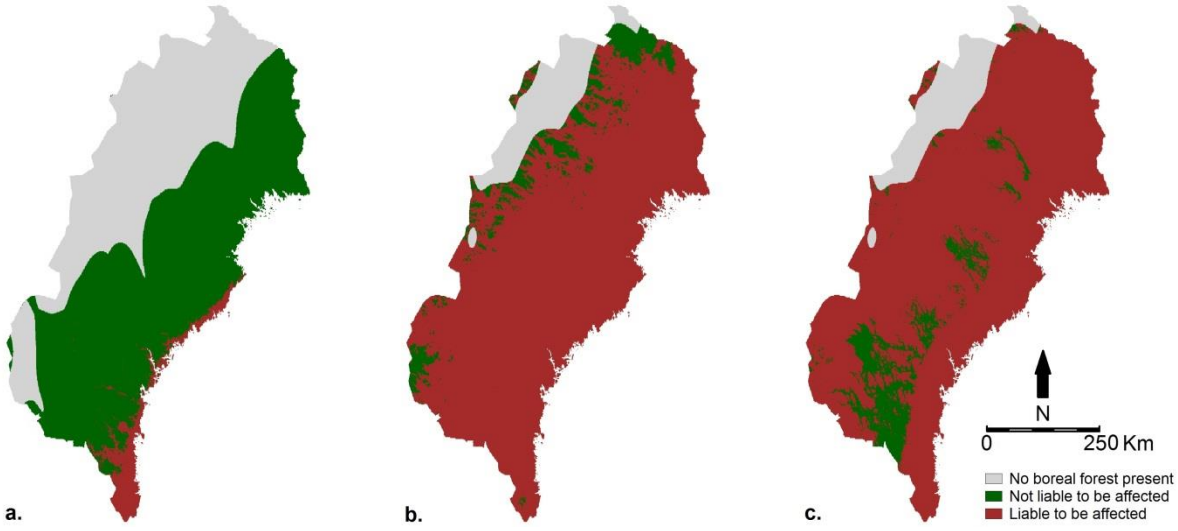

Figure S2: An indication of the geographic distribution of boreal forest that may be affected by *Bupalus piniaria*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

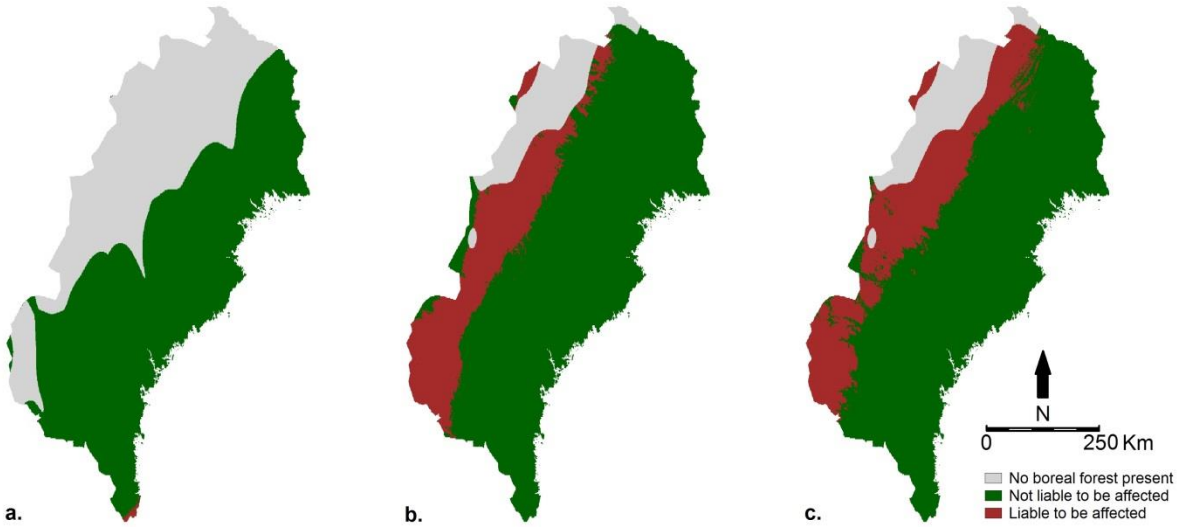

Figure S3: An indication of the geographic distribution of boreal forest that may be affected by *Cryphalus abietis*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

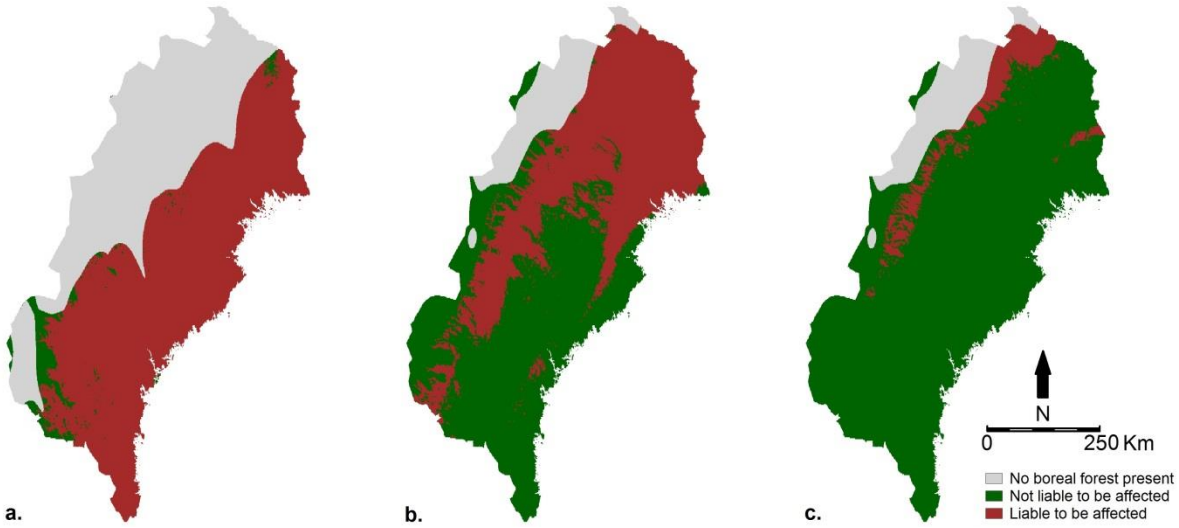

Figure S4: An indication of the geographic distribution of boreal forest that may be affected by *Cryphalus saltuarius*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

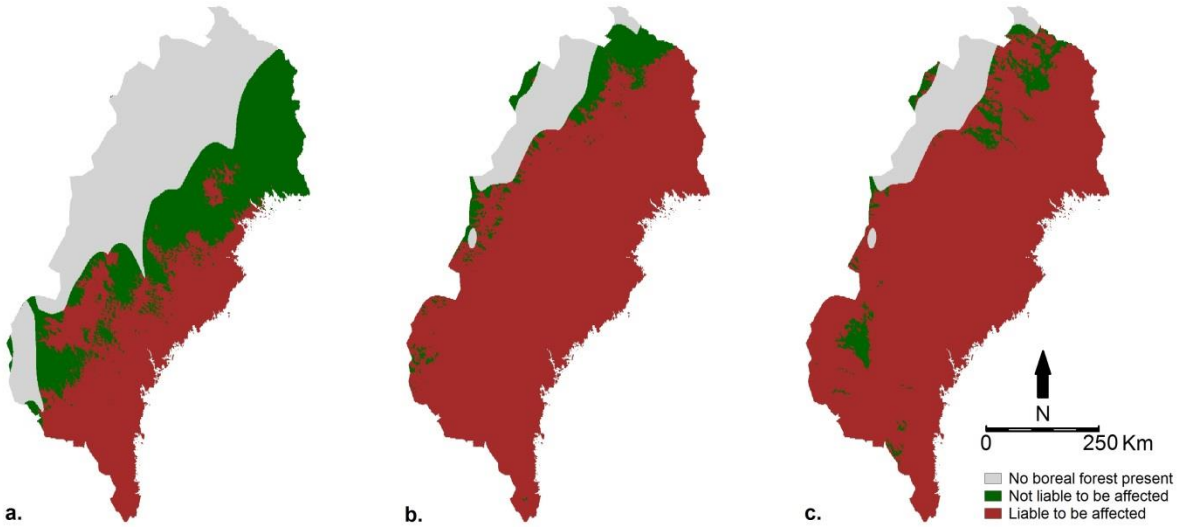

Figure S5: An indication of the geographic distribution of boreal forest that may be affected by *Dendroctonus micans*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

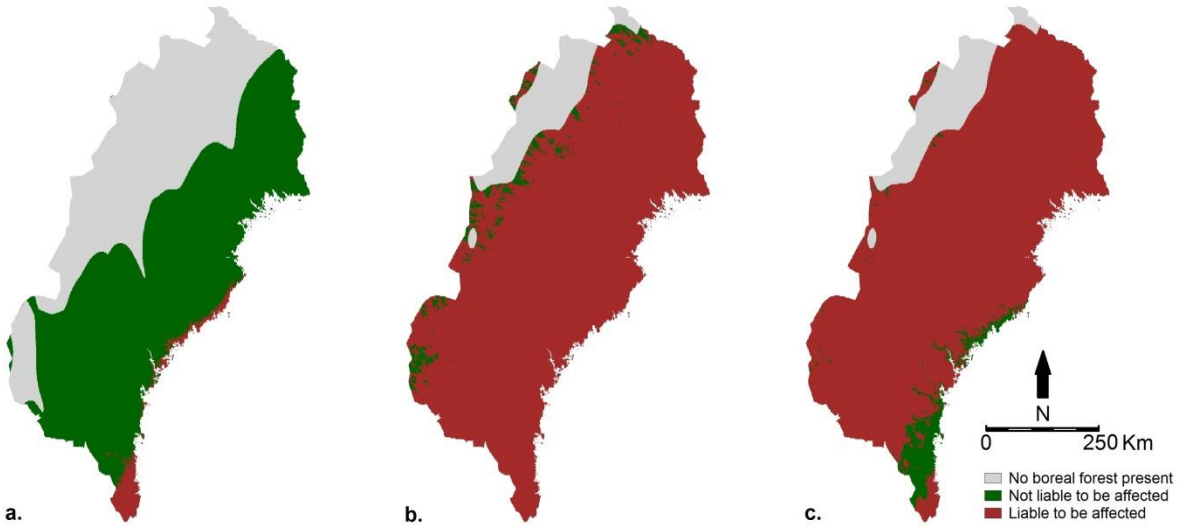

Figure S6: An indication of the geographic distribution of boreal forest that may be affected by *Dendrolimus pini*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

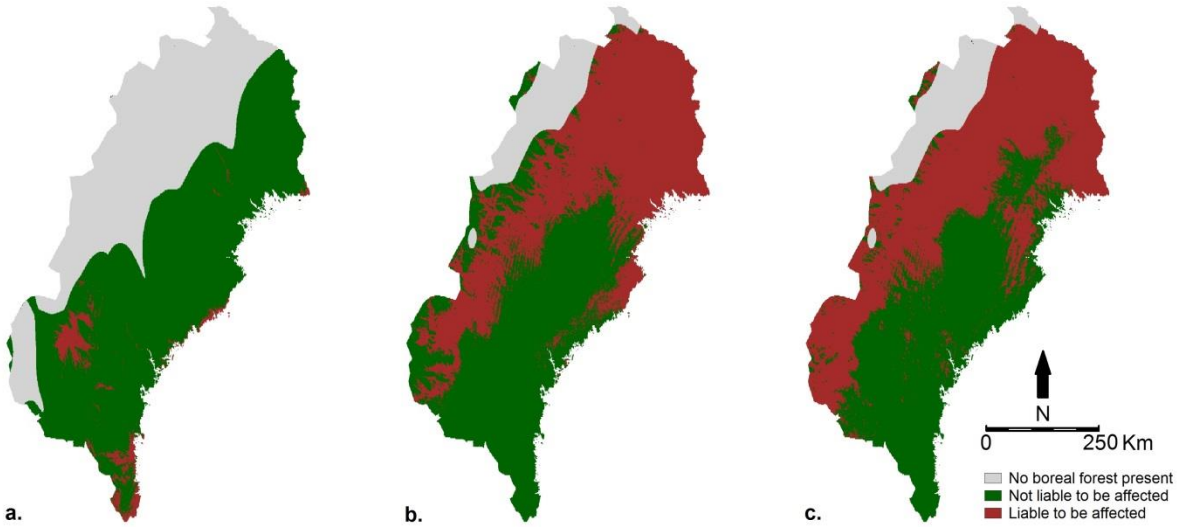

Figure S7: An indication of the geographic distribution of boreal forest that may be affected by *Epinotia pygmaeana*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

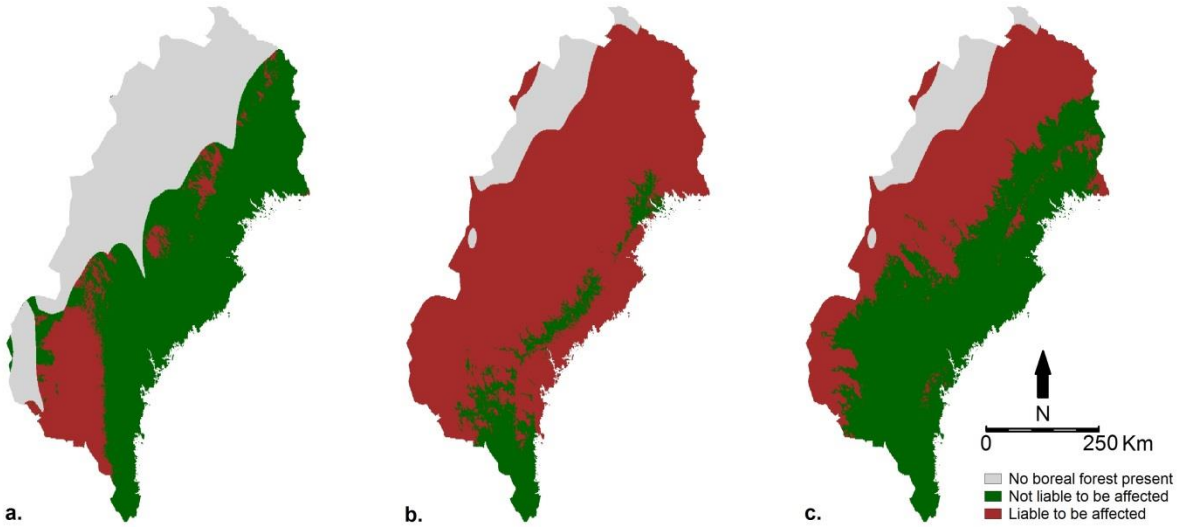

Figure S8: An indication of the geographic distribution of boreal forest that may be affected by *Ips acuminatus*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

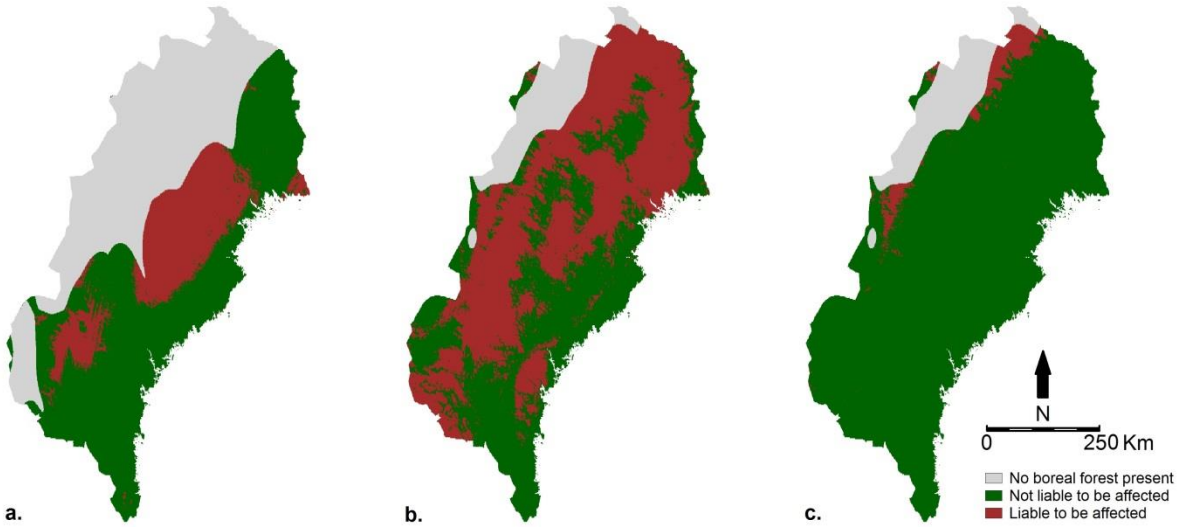

Figure S9: An indication of the geographic distribution of boreal forest that may be affected by *Ips sexdentatus*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

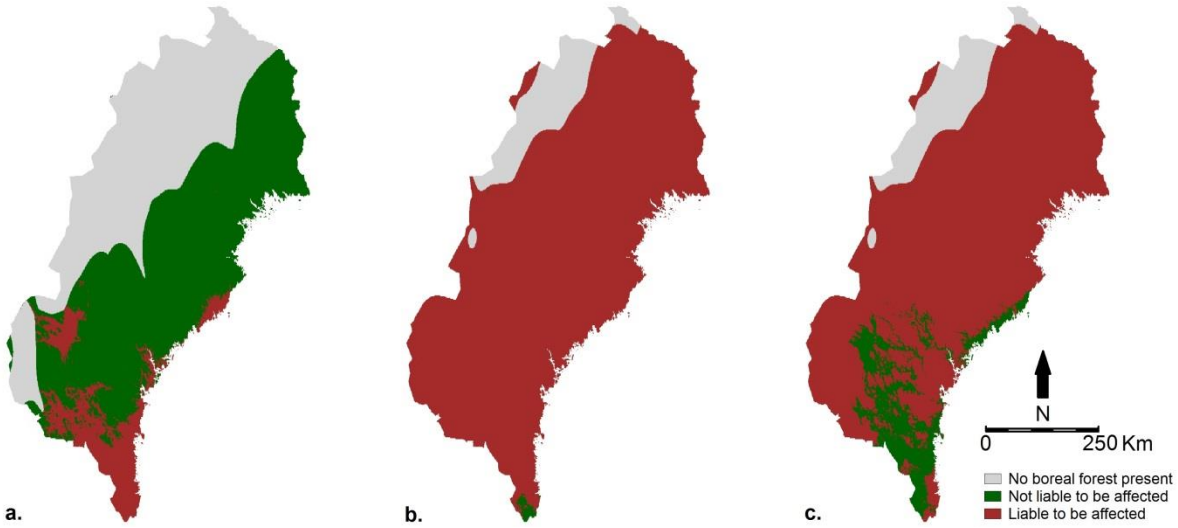

Figure S10: An indication of the geographic distribution of boreal forest that may be affected by *Ips typographus*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

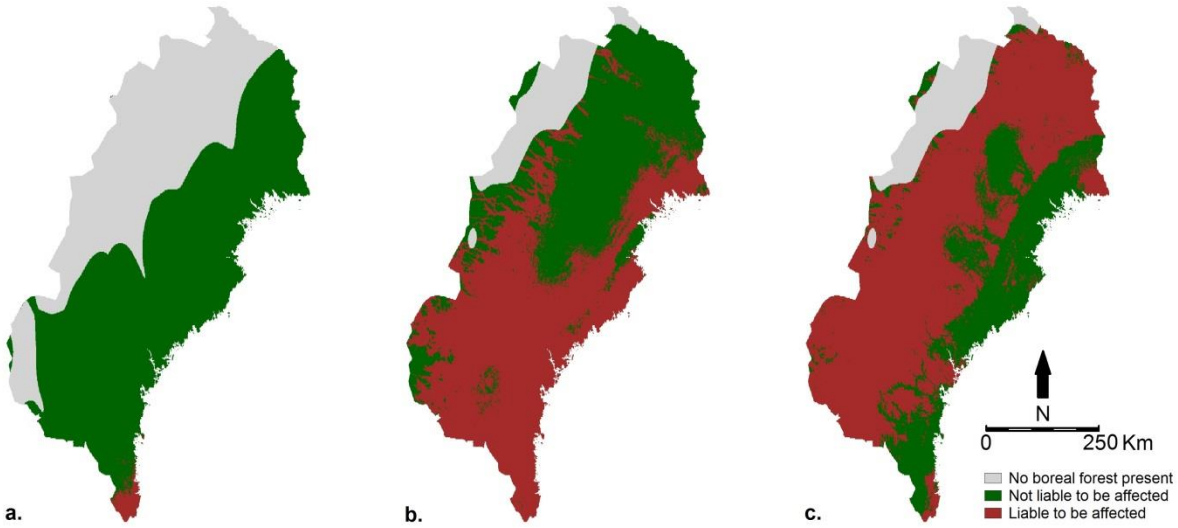

Figure S11: An indication of the geographic distribution of boreal forest that may be affected by *Lymantria monacha*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

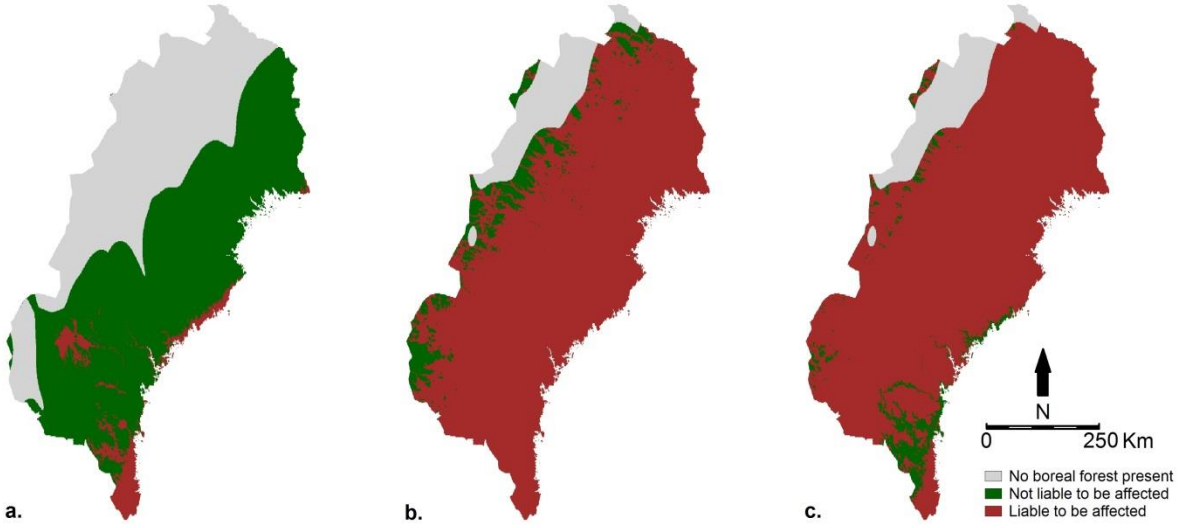

Figure S12: An indication of the geographic distribution of boreal forest that may be affected by *Panolis flammea*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

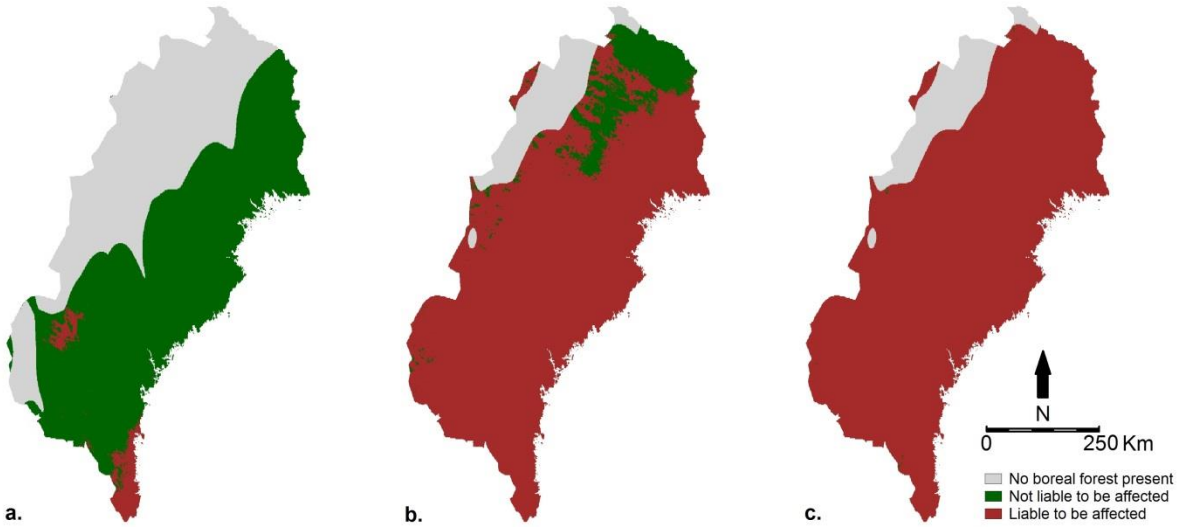

Figure S13: An indication of the geographic distribution of boreal forest that may be affected by *Phaenops cyaneus*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

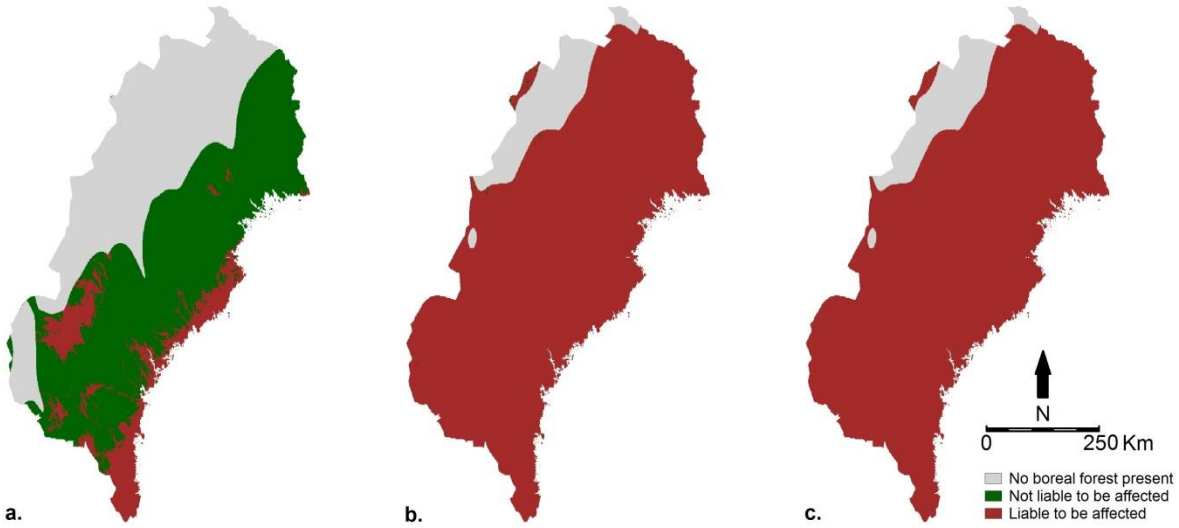

Figure S14: An indication of the geographic distribution of boreal forest that may be affected by *Pissodes pini*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

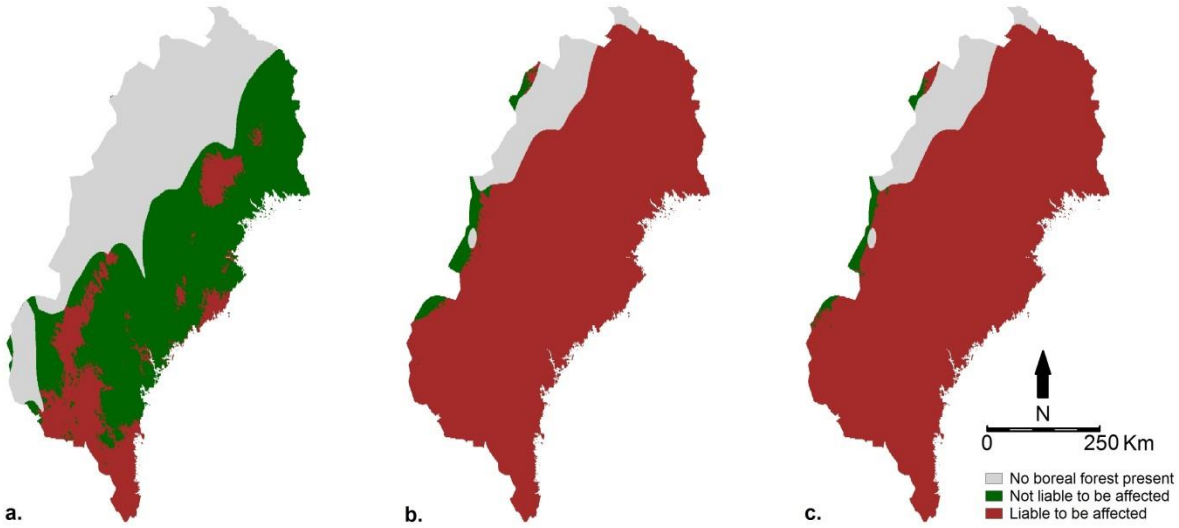

Figure S15: An indication of the geographic distribution of boreal forest that may be affected by *Pissodes piniphilus*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

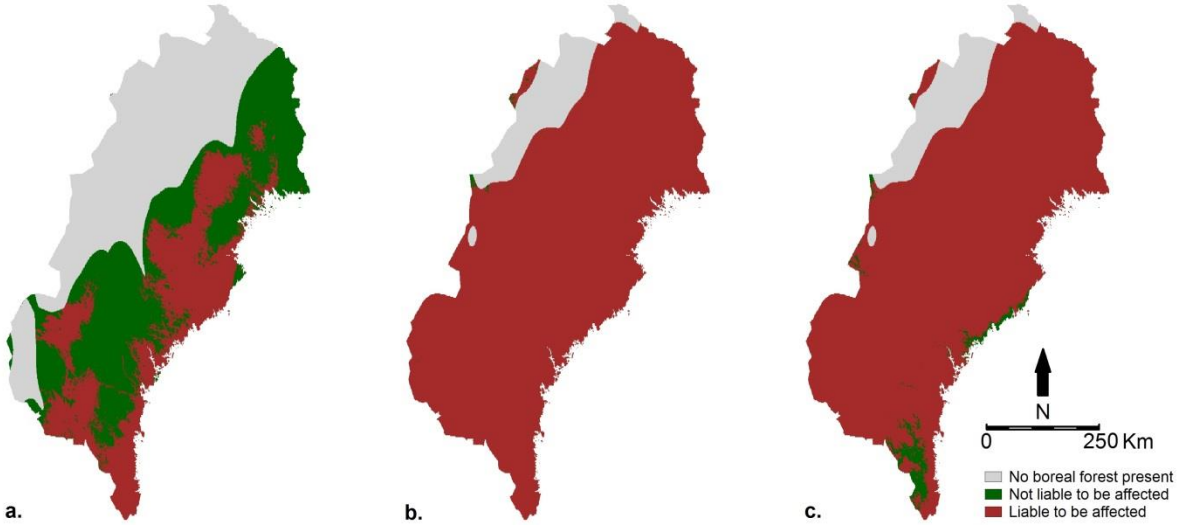

Figure S16: An indication of the geographic distribution of boreal forest that may be affected by *Pityogenes bidentatus*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

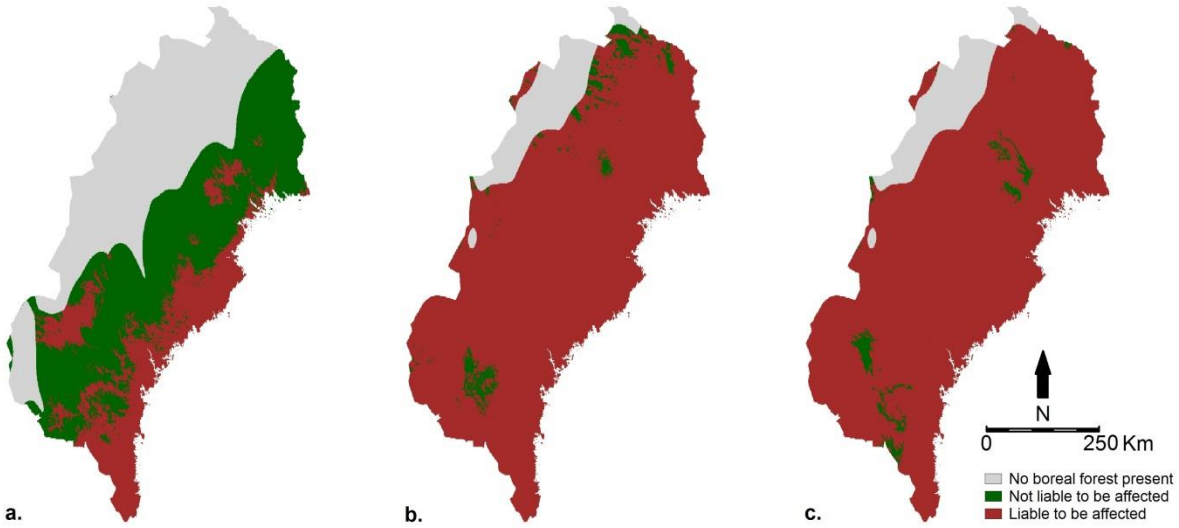

Figure S17: An indication of the geographic distribution of boreal forest that may be affected by *Pityogenes chalcographus*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

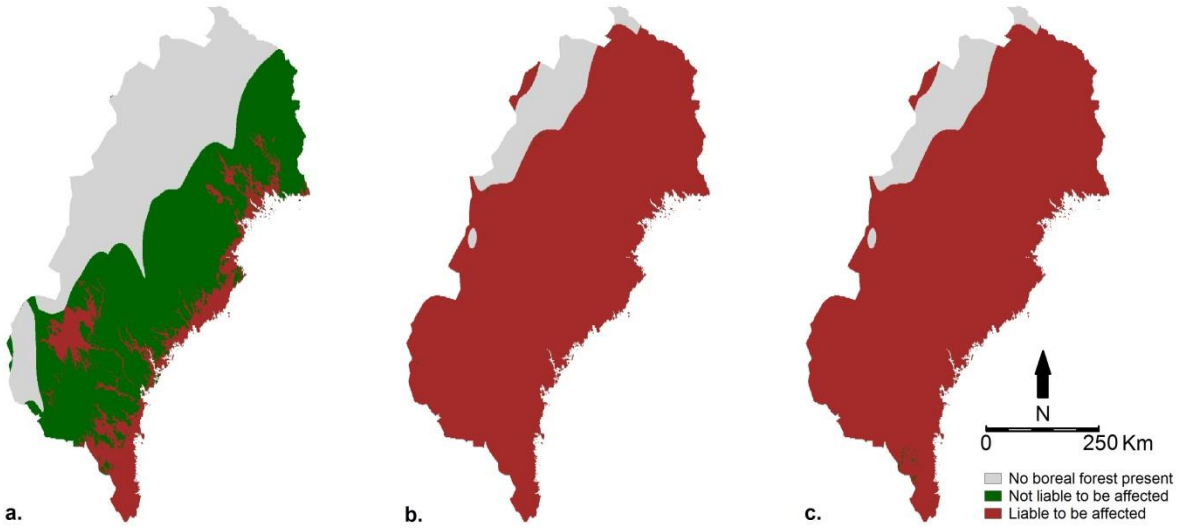

Figure S18: An indication of the geographic distribution of boreal forest that may be affected by *Pityogenes quadridens*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

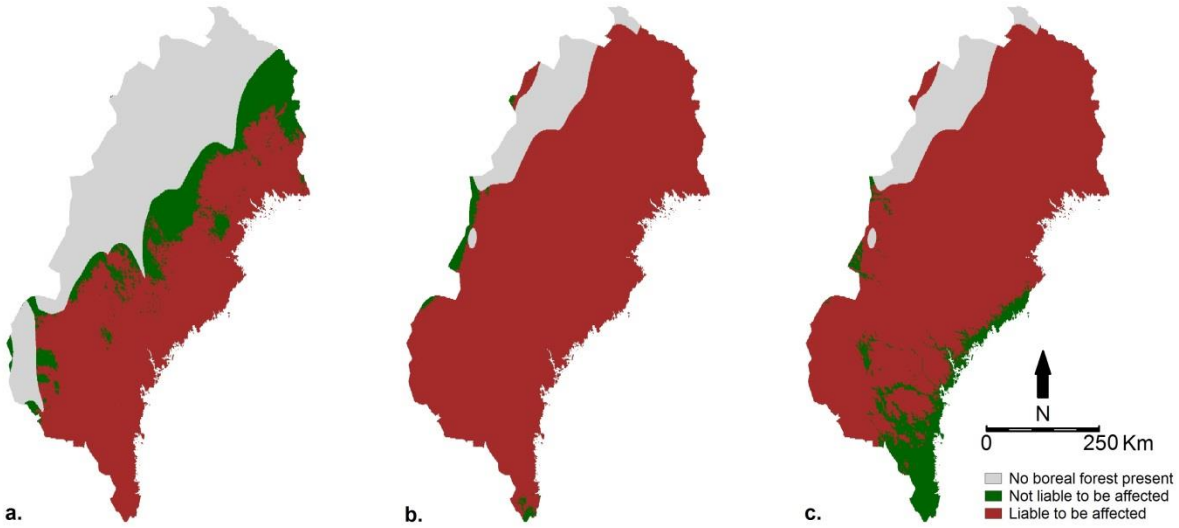

Figure S19: An indication of the geographic distribution of boreal forest that may be affected by *Polygraphus poligraphus*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

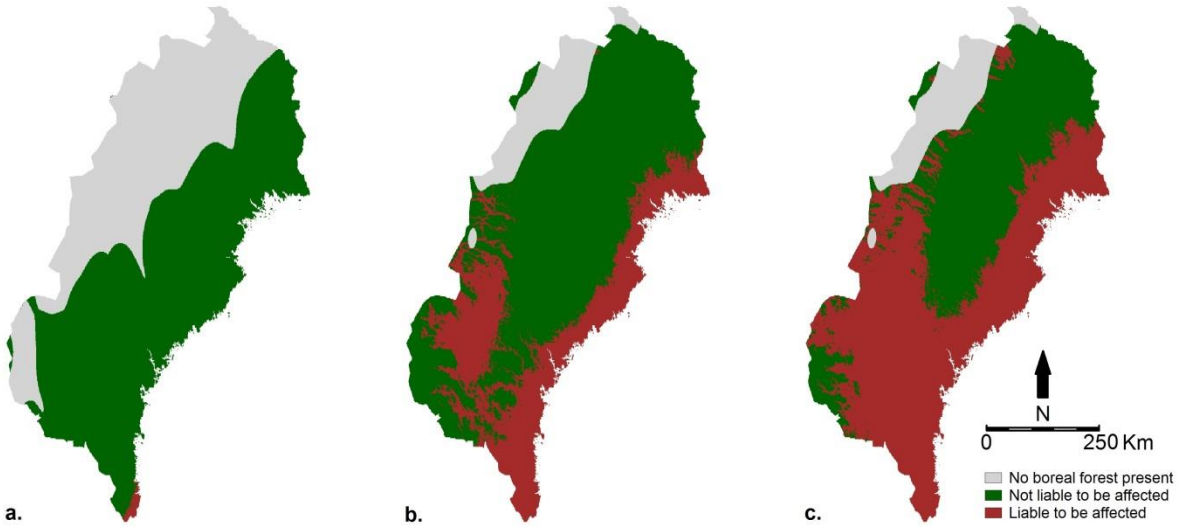

Figure S20: An indication of the geographic distribution of boreal forest that may be affected by *Rhyacionia buoliana*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

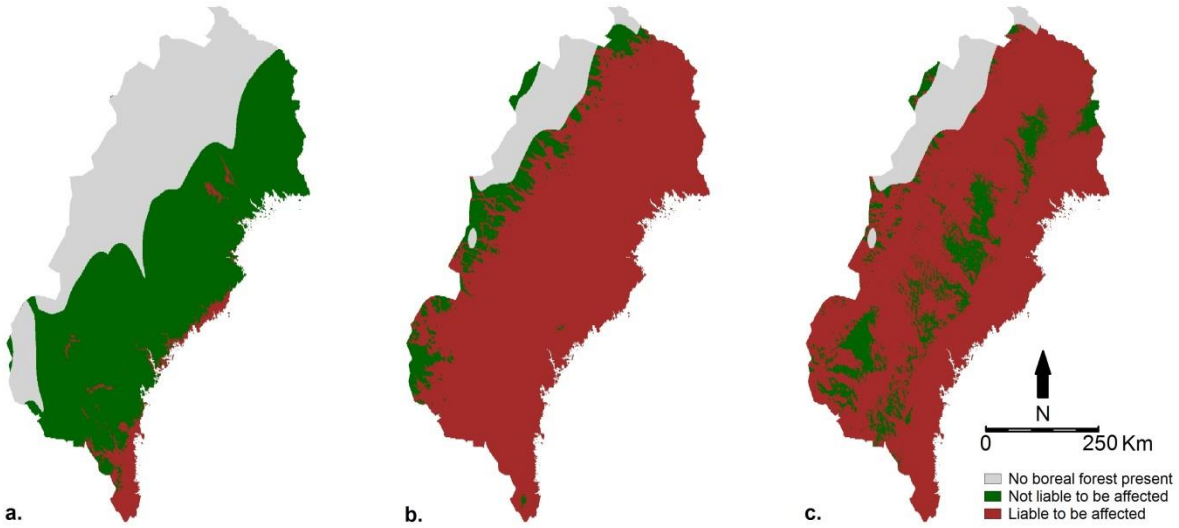

Figure S21: An indication of the geographic distribution of boreal forest that may be affected by *Rhyacionia duplana*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

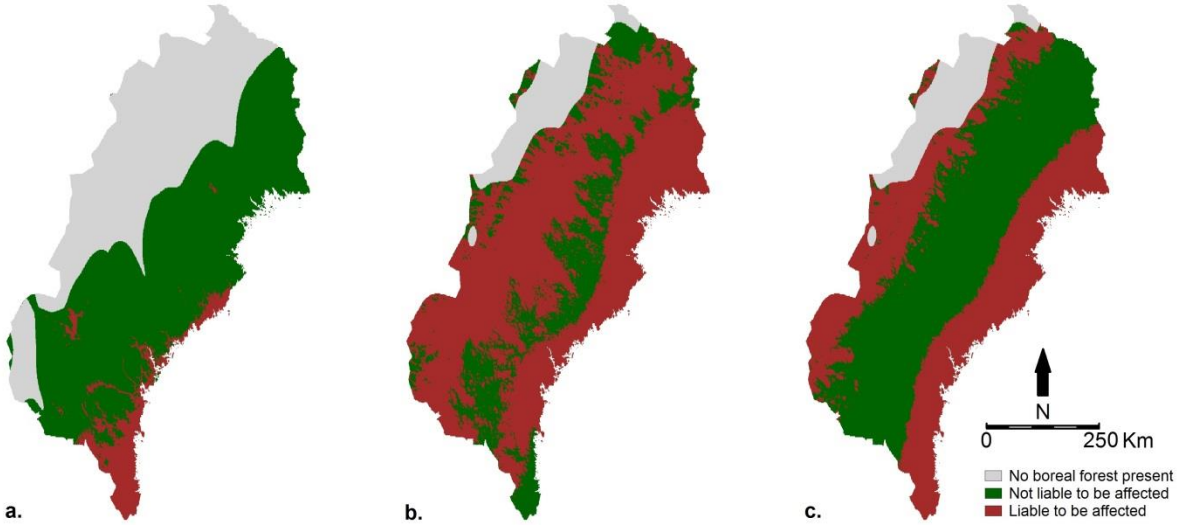

Figure S22: An indication of the geographic distribution of boreal forest that may be affected by *Tetropium castaneum*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

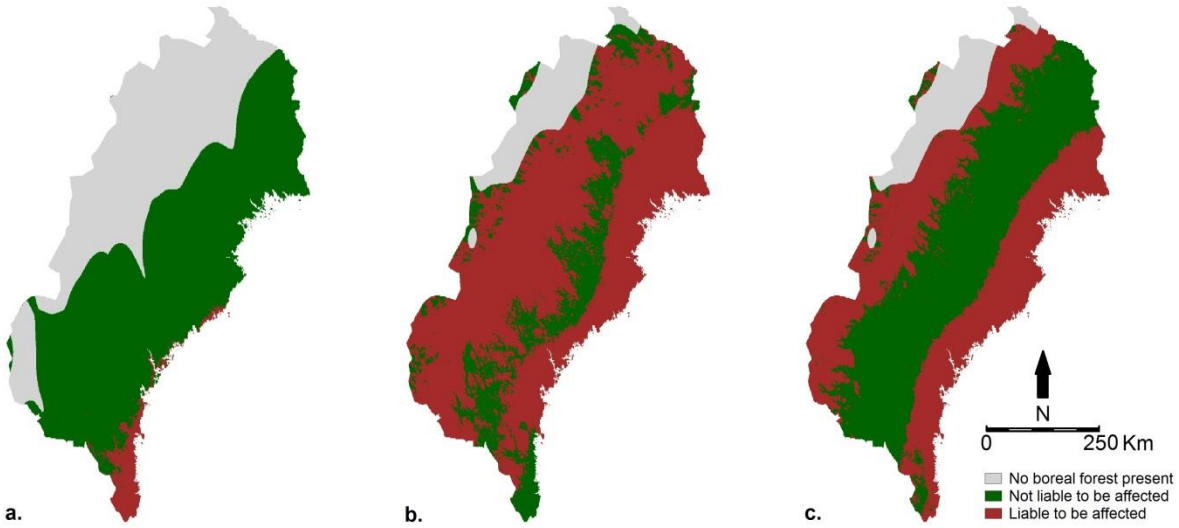

Figure S23: An indication of the geographic distribution of boreal forest that may be affected by *Tetropium fuscum*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

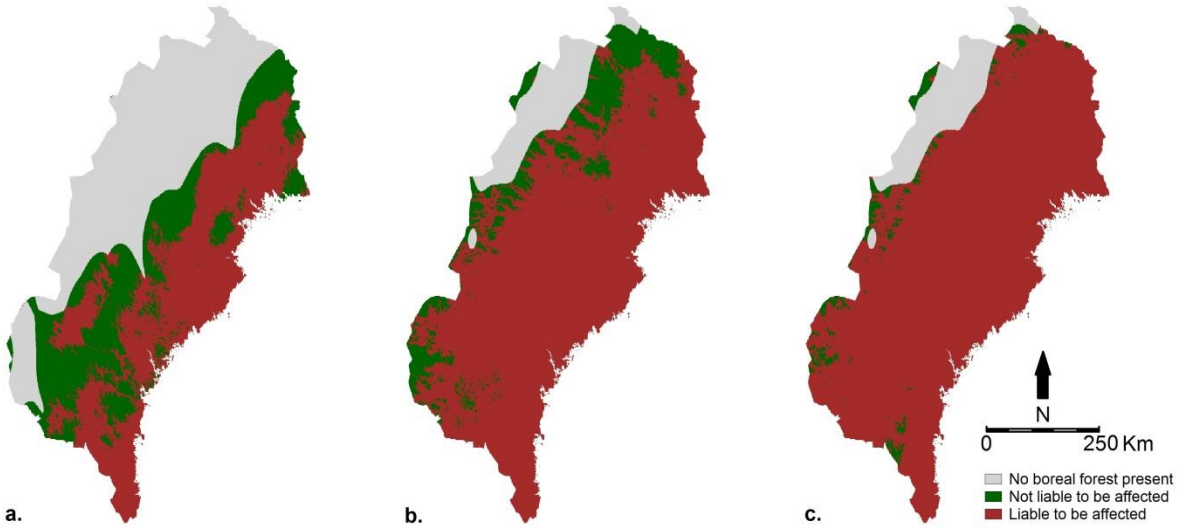

Figure S24: An indication of the geographic distribution of boreal forest that may be affected by *Tomicus minor*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

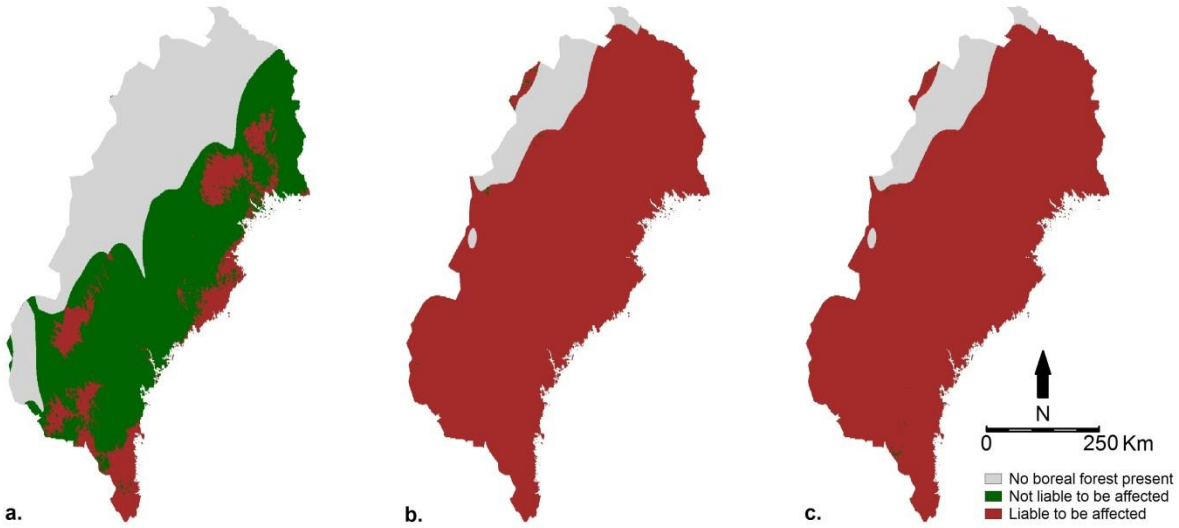

Figure S25: An indication of the geographic distribution of boreal forest that may be affected by *Tomicus piniperda*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

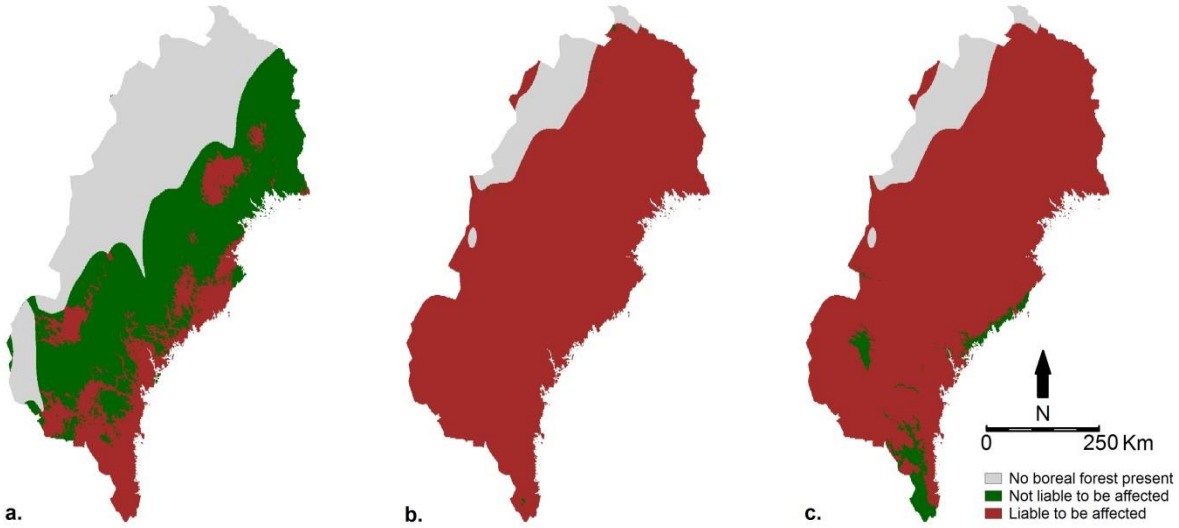

Figure S26: An indication of the geographic distribution of boreal forest that may be affected by *Trypodendron lineatum*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.

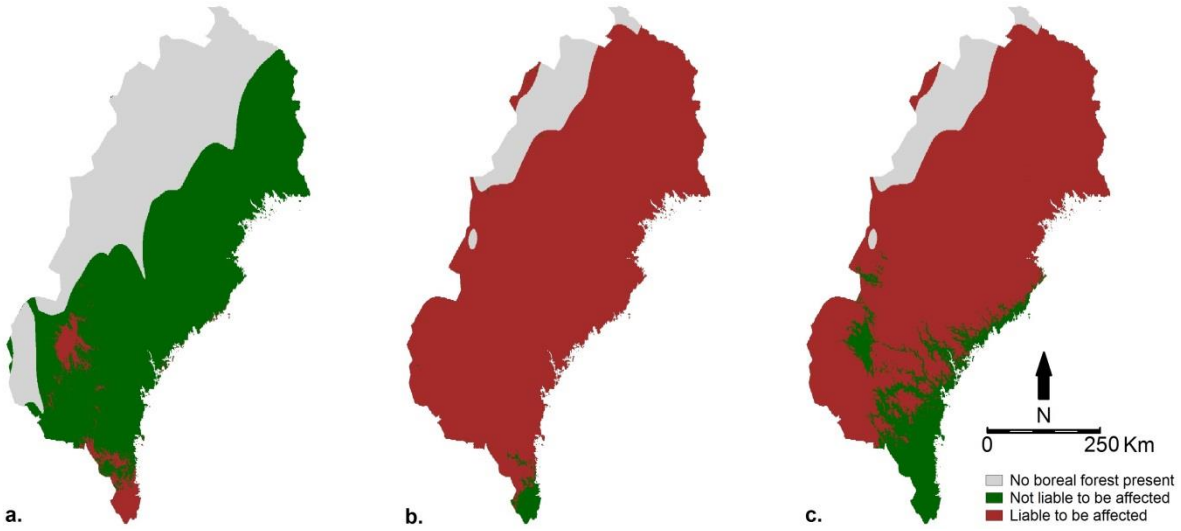

Figure S27: An indication of the geographic distribution of boreal forest that may be affected by *Zeiraphera ratzeburgiana*, a. at present, b. in 2070 under RCP 4.5, and c. in 2070 under RCP 4.5, based on the average of ten predictions.