

Supplementary file S1

Here, we present the results of Generalized Linear Model analysis (GLM): dependent variables are the logarithm transformed values of species richness or arcsine transformed alien species proportion; continual factor – arcsine transformed proportion of trunks of *A. negundo* (trunk proportion); categorical factor – region (Middle Urals or Belarusian Polesia). Graphical information with non-transformed values of variables are shown below the Table.

These materials demonstrate, that, in common, our basic results are reliable and identified by both a pairwise analysis and an invasive species abundance gradient analysis.

Table S1. FDR-adjusted *p*-values of the effects of *Acer negundo* trunk proportion and region on species richness parameters in Generalized Linear Model analysis. Significant levels of *p*-values appear in bold.

Species number or proportion	Variability source		
	trunk proportion (<i>df</i> = 1)	region (Urals or Polesia) (<i>df</i> = 1)	trunk proportion × region (<i>df</i> = 1)
Species number per 400 m ² :			
Total	0,0517	0,1883	0,5555
Woody	0,0137	0,0196	0,0225
Herbal	0,2244	0,3148	0,8579
Native species number per 400 m ² :			
Total	0,0197	0,8908	0,8908
Woody	0,0019	0,0015	0,1029
Herbal	0,0506	0,8561	0,8561
Alien species number per 400 m ² :			
Total	0,3451	0,2499	0,2499
Woody	0,7540	0,4565	0,0477
Herbal	0,3771	0,0078	0,6054
Alien species proportion, %:			
Total	0,1511	0,4656	0,1927
Woody	0,5870	0,2194	0,2194
Herbal	0,0163	0,0039	0,6198

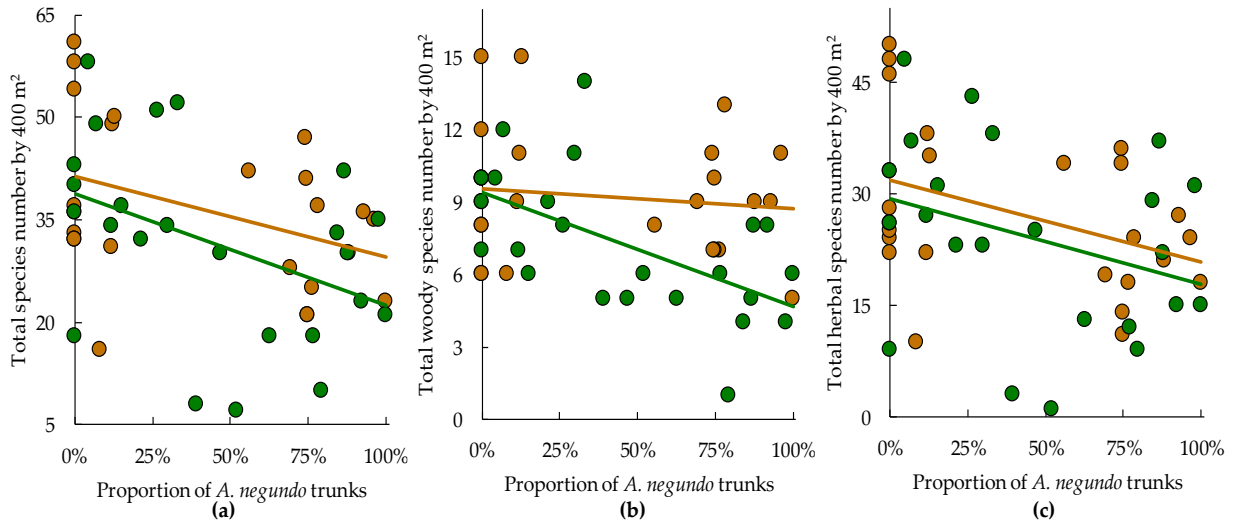


Figure S1. Relationship between total (a), woody (b) and herbal (c) species numbers and proportions of trunks of *A. negundo* in descriptions of Belarusian Polesia (brown circles and lines) and the Middle Urals (green circles and lines). Linear approximations for different regions are shown.

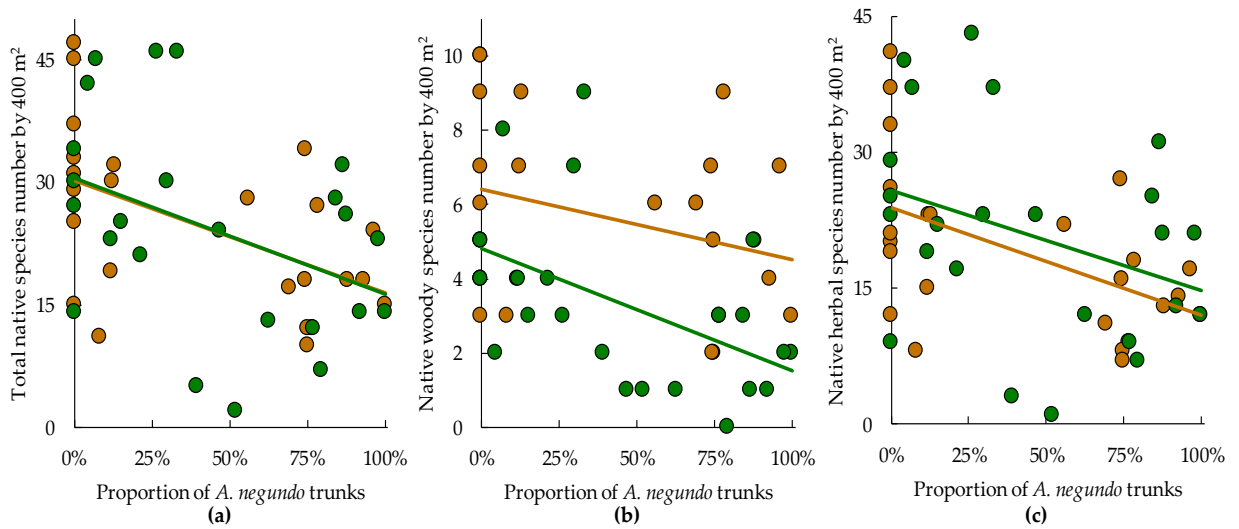


Figure S2. Relationship between total (a), woody (b) and herbal (c) native species numbers and proportions of trunks of *A. negundo* in descriptions of Belarusian Polesia (brown circles and lines) and the Middle Urals (green circles and lines). Linear approximations for different regions are shown.

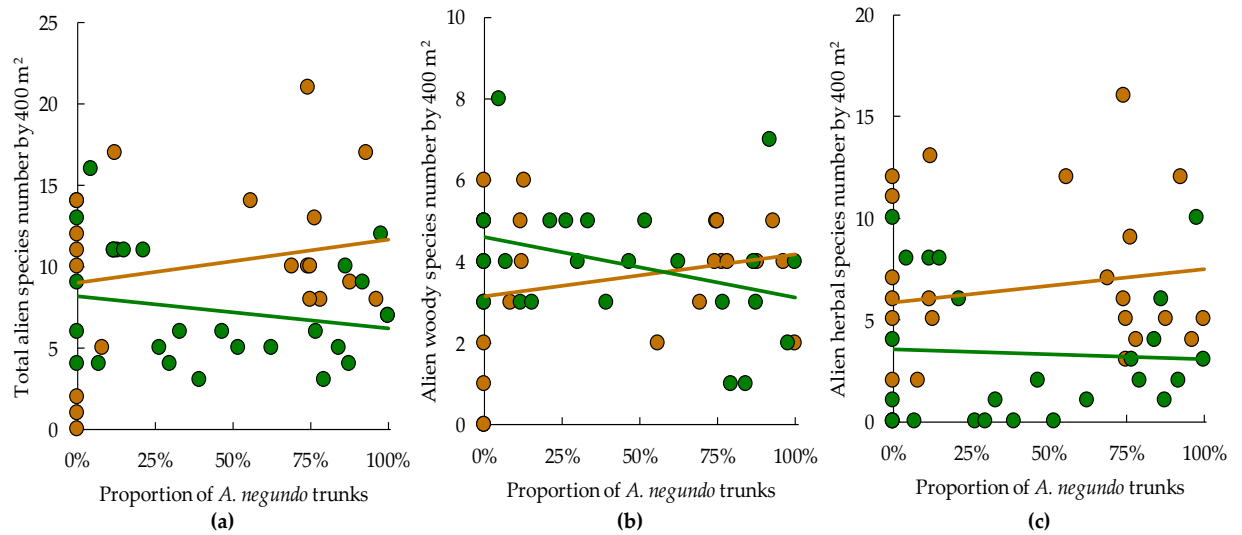


Figure S3. Relationship between total (a), woody (b) and herbal (c) alien species numbers and proportions of trunks of *A. negundo* in descriptions of Belarusian Polesia (brown circles and lines) and the Middle Urals (green circles and lines). Linear approximations for different regions are shown.

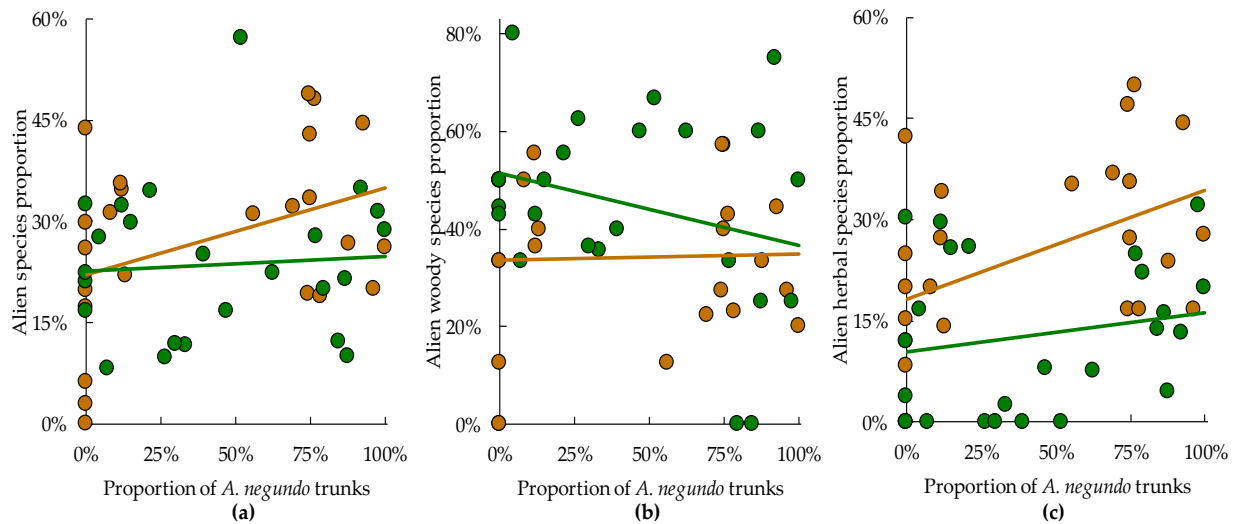


Figure S4. Relationship between total (a), woody (b) and herbal (c) alien species proportions and proportions of trunks of *A. negundo* in descriptions of Belarusian Polesia (brown circles and lines) and the Middle Urals (green circles and lines). Linear approximations for different regions are shown.