

**Supplementary Materials: Environmental harshness drives spatial heterogeneity in biotic resistance**

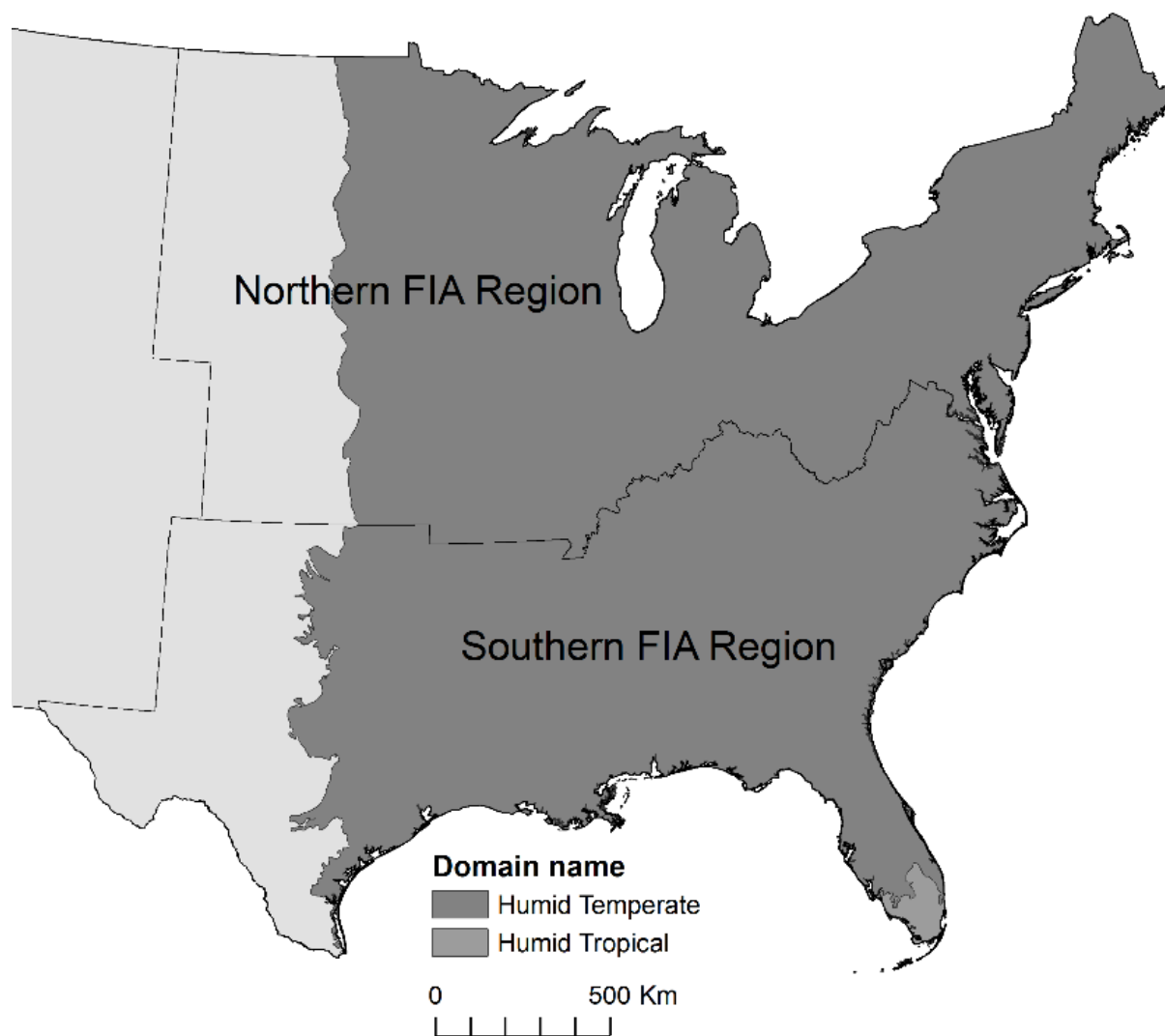
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**Supplementary material 1: Locations of Northern and Southern FIA Regions and of the ecological domains, provinces, and sections in which study plots were located****Text S1.1**

The locations of the Humid Temperate and Humid Tropical domains (i.e. our study region) and the location of Northern and Southern FIA Administrative Regions are shown in Fig. S1.1. The locations of ecological sections are shown in Fig. S1.2 and the names of each ecological section are listed in Table S1.1. Locations of ecological provinces are shown in Fig. S1.3 and the names of ecological provinces are listed in Table S1.2. Geographical classification follows that of Cleland et al. (1997). Descriptions of ecological sections are provided in McNab et al. (2007).

**References**

- Cleland DT, Avers PE, McNab WH, Jensen ME, Bailey RG, King T, Russell, WE (1997)  
National hierarchical framework of ecological units. in: Boyce MS, Haney A (Eds)  
Ecosystem Management Applications for Sustainable Forest and Wildlife Resources.  
Yale University Press (New Haven): 181–200.
- McNab WH, Cleland DT, Freeouf JA, Keys JE Jr, Nowacki GJ, Carpenter CA (2007)  
Description of Ecological Subregions: Sections of the Conterminous United States [CD-  
ROM]. Gen. Tech. Report WO-76B. U.S. Department of Agriculture, Forest Service,  
(Washington, DC).



**Figure S1.1.** Location of study region (i.e. Humid Temperate and Humid Tropical domains) and the Northern and Southern FIA Administrative Regions.



**Figure S1.2.** The 91 ecological sections occurring within our study region. See Table S1.1 for the names of each section. Outlines of the 14 ecological provinces shown in Fig. S1.3 and named in Table S1.2 are provided for reference.

**Table S1.1.** The 91 ecological sections nested within our study region. Locations are shown in Fig. S1.2.

<u>Section Number</u>	<u>Section name</u>
1	Northern Minnesota and Ontario
2	Red River Valley
3	Lake Agassiz-Aspen Parklands
4	Aroostook Hills and Lowlands
5	Minnesota and Northeast Iowa Morainal-Oak Savannah
6	Northern Minnesota Drift and Lake Plains
7	Northern Superior Uplands
8	Maine - New Brunswick Foothills and Lowlands
9	Northern Upper Peninsula
10	Fundy Coastal and Interior
11	Southwest Lake Superior Clay Plain
12	Southern Superior Uplands
13	White Mountains
14	Western Superior Uplands
15	Northern Green Bay Lobe
16	Northern Highlands
17	St. Lawrence and Champlain Valley
18	Eastern Upper Peninsula
19	Central Maine Coastal and Embayment
20	Adirondack Highlands
21	New England Piedmont
22	North Central U.S. Driftless and Escarpment
23	Lower New England
24	North Central Wisconsin Uplands
25	Northern Lower Peninsula
26	Green-Taconic-Berkshire Mountains
27	Hudson Valley

**Table S1.1.** The 91 ecological sections nested within our study region. Locations are shown in Fig. S1.2.

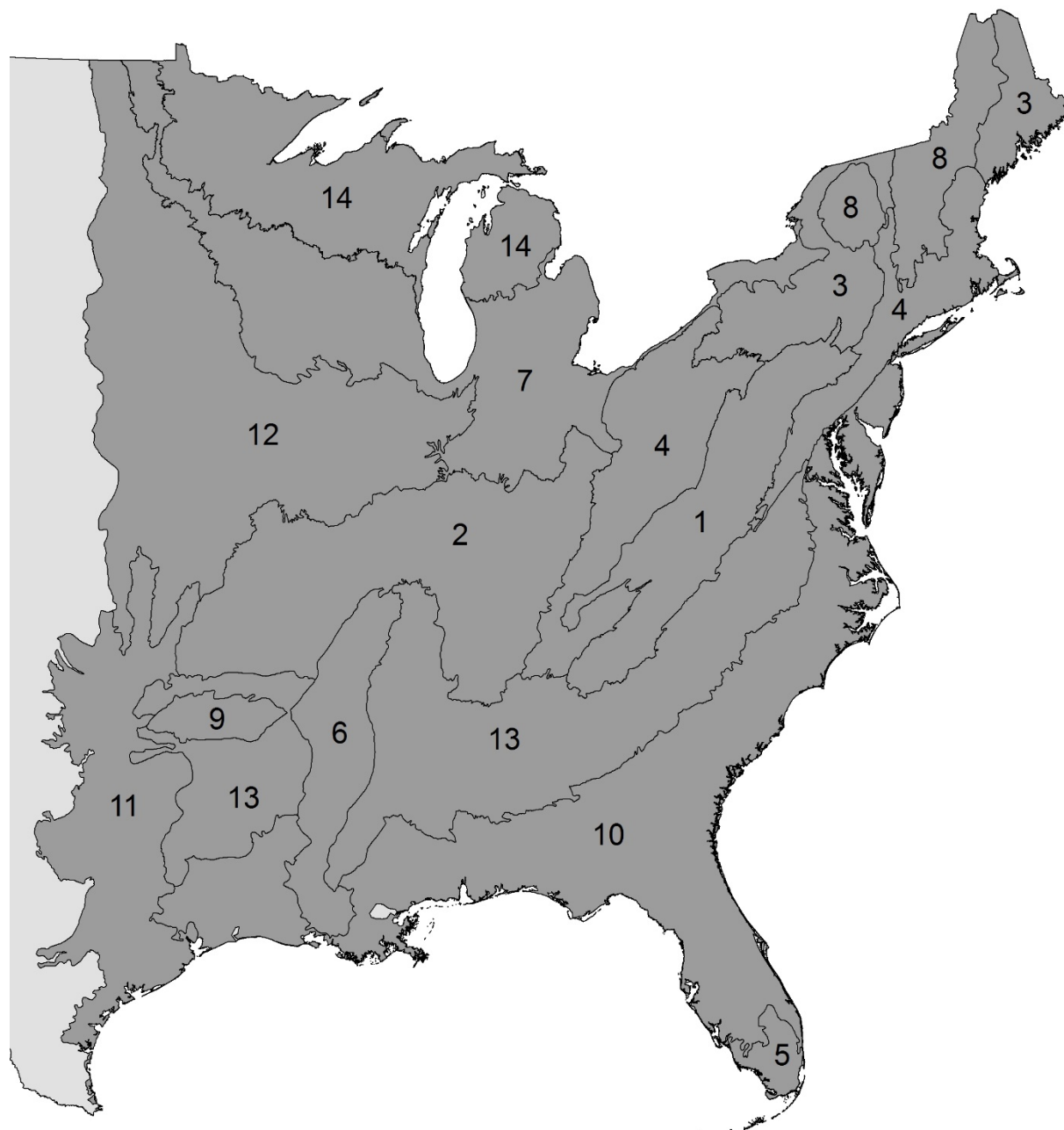
<u>Section Number</u>	<u>Section name</u>
28	Wisconsin Central Sands
29	Green Bay - Manitowac Upland
30	Tug Hill Plateau - Mohawk Valley
31	Northern Glaciated Allegheny Plateau
32	Catskill Mountains
33	North Central Glaciated Plains
34	Erie and Ontario Lake Plain
35	Southwestern Great Lakes Morainial
36	Lake Whittlesey Glaciolacustrine Plain
37	Northern Unglaciated Allegheny Plateau
38	South Central Great Lakes
39	Central Till Plains and Grand Prairies
40	Nebraska Rolling Hills
41	Western Glaciated Allegheny Plateau
42	Southern Unglaciated Allegheny Plateau
43	Blue Ridge Mountains
44	Central Till Plains-Beech-Maple
45	Northern Atlantic Coastal Plain
46	Northern Ridge and Valley
47	Northern Appalachian Piedmont
48	Flint Hills
49	Allegheny Mountains
50	Interior Low Plateau-Transition Hills
51	Central Dissected Till Plains
52	Central Appalachian Piedmont
53	Northern Cumberland Plateau
54	Osage Plains

**Table S1.1.** The 91 ecological sections nested within our study region. Locations are shown in Fig. S1.2.

<u>Section Number</u>	<u>Section name</u>
55	Interior Low Plateau-Bluegrass
56	Central Till Plains-Oak Hickory
57	Interior Low Plateau-Shawnee Hills
58	Middle Atlantic Coastal Plains and Flatwoods
59	Interior Low Plateau-Highland Rim
60	White and Black River Alluvial Plains
61	Coastal Plains-Loess
62	Ozark Highlands
63	Northern Cumberland Mountains
64	Central Ridge and Valley
65	Boston Mountains
66	Coastal Plains-Middle
67	Arkansas Valley
68	Southern Appalachian Piedmont
69	Ouachita Mountains
70	Southern Cumberland Plateau
71	Arkansas Alluvial Plains
72	Cross Timbers and Prairie
73	Northern Atlantic Coastal Flatwoods
74	Mid Coastal Plains-Western
75	Southern Ridge and Valley
76	Texas Cross Timbers and Prairie
77	Blackland Prairie
78	Southern Atlantic Coastal Plains and Flatwoods
79	Atlantic Coastal Flatwoods
80	Southern Mississippi Alluvial Plain
81	Coastal Plains and Flatwoods-Western Gulf

**Table S1.1.** The 91 ecological sections nested within our study region. Locations are shown in Fig. S1.2.

<u>Section Number</u>	<u>Section name</u>
82	Oak Woods and Prairie
83	Gulf Coastal Plains and Flatwoods
84	Atchafalaya and Red River Alluvial Plains
85	Gulf Coastal Lowlands
86	Florida Coastal Plains Central Highlands
87	Louisiana Coastal Prairie and Marshes
88	Florida Coastal Lowlands-Gulf
89	Central Gulf Prairie and Marshes
90	Florida Coastal Lowlands-Atlantic
91	Everglades



**Figure S1.3.** Locations of the 14 ecological provinces nested within our study region. Names of provinces are provided in Table S1.2.



**Table S1.2.** Names of the 14 ecological provinces nested within our study region. Locations are shown in Fig. S1.3.

<u>Section Number</u>	<u>Section name</u>
1	Central Appalachian Broadleaf Forest-Coniferous Forest-Meadow
2	Central Interior Broadleaf Forest
3	East Laurentian Mixed Forest
4	Eastern Broadleaf Forest (Oceanic)
5	Everglades
6	Lower Mississippi Riverine Forest
7	Midwest Broadleaf Forest
8	New England-Adirondack
9	Ouachita Mixed Forest-Meadow
10	Outer Coastal Plain Mixed Forest
11	Prairie Parkland (Subtropical)
12	Prairie Parkland (Temperate)
13	Southeastern Mixed Forest
14	West Laurentian Mixed Forest