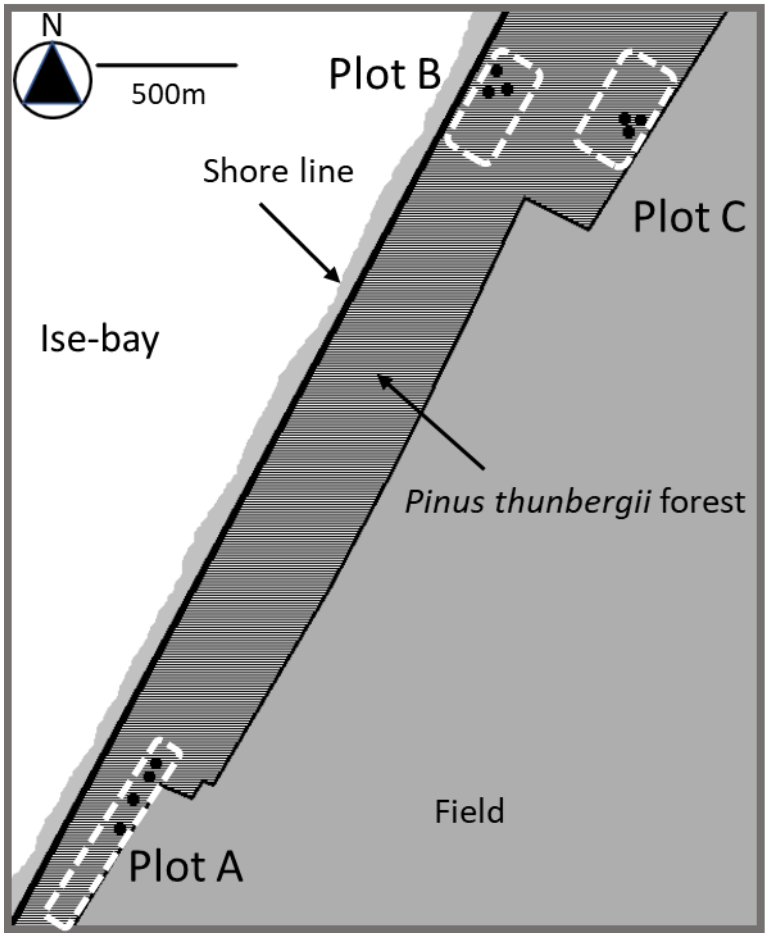

Figure S1. Location of experimental plots A–C in a coastal *Pinus thunbergii* forest.

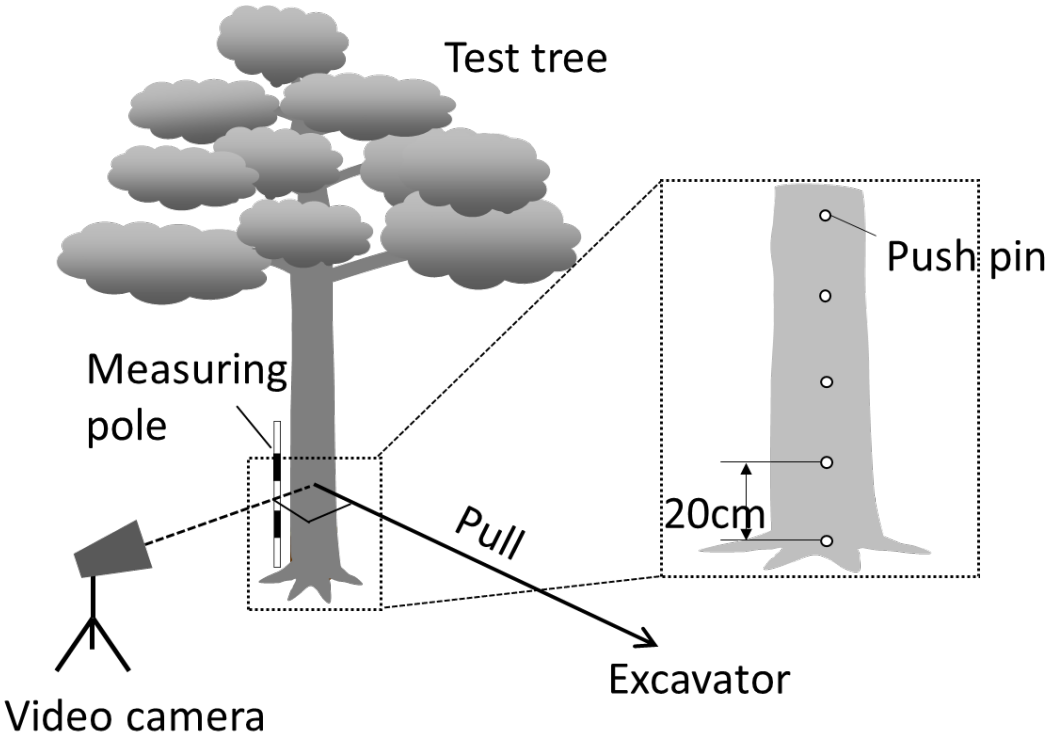

Figure S2. Video shooting method to measure the depth at the center point of rotation (Dcp) in *P. thunbergii* trees in a tree-pulling experiment.

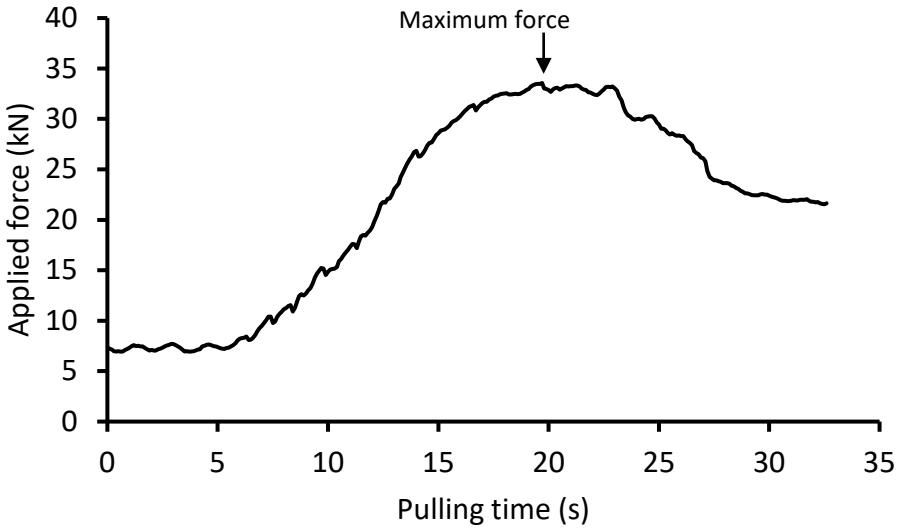

Figure S3. Example of change in applied force with the pulling time in a *P. thunbergii* tree during the pulling experiment (ex. plotA-1).

Table S1. Characteristics of *Pinus thunbergii* trees and soils at Plot A, B and C (min–max values or mean values ± SE).

	Plot A	**Plot B**	**Plot C**
Distance from the shoreline (m)	188–199	150–270[c]	620–740[c]
Elevation above sea level (m)	0.88–1.42[a,b]	0.48–1.61[c]	1.88–2.83[c]
Ground water table depth[d] (cm)	175 ± 8.7[b]	94 ± 28[c]	>240[c]
Soil water content[e] (%)			
0–10 cm depth	n.d.	14.8 ± 2.9[c]	6.8 ± 1.0[c]
20–30 cm depth	2.1–3.1[b]	5.8 ± 0.3[c]	2.5 ± 0.3[c]
Canopy layer tree species	*P. thunbergii*	*P. thunbergii*	*P. thunbergii*
P. thunbergii trees[f]			
DBH (cm)	17.2 ± 0.9	15.4 ± 1.1[c]	16.4 ± 1.2[c]
H (m)	9.8 ± 0.2	5.5 ± 0.3[c]	10.2 ± 0.7[c]
Crown width (m)	3.4 ± 0.2	3.8 ± 0.3[c]	3.2 ± 0.2[c]
Distance (m) to adjacent *P. thunbergii*	n.d.	4.1 ± 0.6[c]	2.3 ± 0.3[c]
Density (no. ha^{-1})	100–200	200–400[c]	400–1000[c]
Understory species	*Pittosporum tobira*[b] *Quercus phillyraeoides*[b] *Rhus javanica* var. *chinensis*[b]	*Robinia pseudoacacia*[c] *Pittosporum tobira*[c]	*Quercus phillyraeoides*[c] *Cinnamomum camphora*[c] *Toxicodendron sylvestre*[c]

DBH: stem diameter at breast height.

H: tree height.

n.d.: not detemined.

a Data from Todo et al. [42].

b Data from Tanaka et al. [41].

c Data from Todo et al. [7] and Hirano et al. [8].

d Plot A (n = 3), Plot B (n = 3), Plot C (n = 1).

e Plot A (number of data unknown), Plot B (n = 13), Plot C (n = 14).

f Plot A (n = 13), Plot B (n = 17), Plot C (n = 24).

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