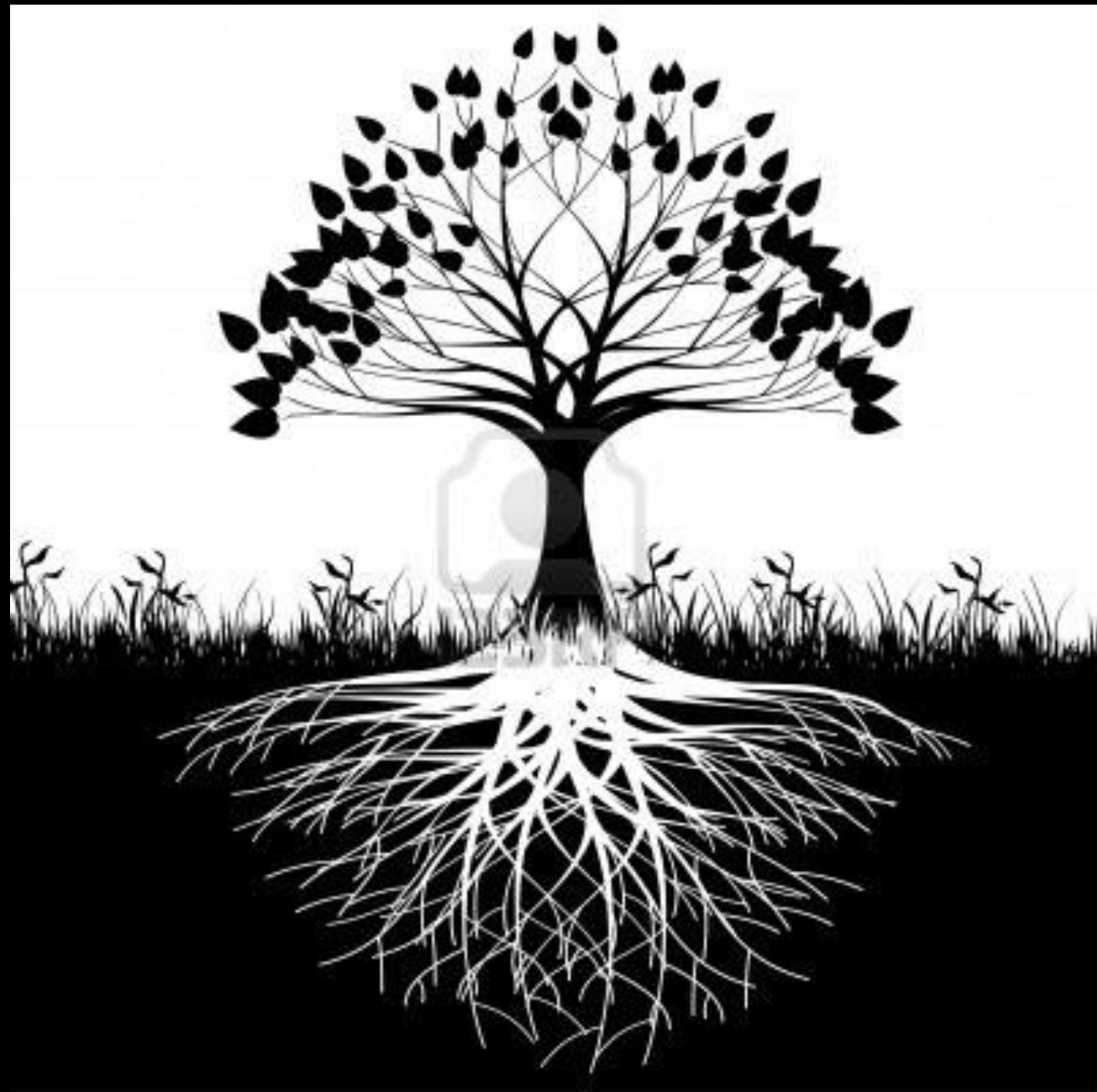


LES RELATIONS CACHÉES DES ARBRES

Annie DesRochers, PhD
Professeure-chercheure









Peuplier baumier (photo: Kokouvi Adonsou)

Forêt = ensemble d'arbres, individus en compétition les uns avec les autres

- Lumière
- Espace
- Eau
- Minéraux





Populus tremuloides



Populus tremuloides





Greffes racinaires présentes chez plus de 150 espèces
(Bormann 1966)

- Spécialement chez les différentes espèces de pin



Picea mariana



Abies alba



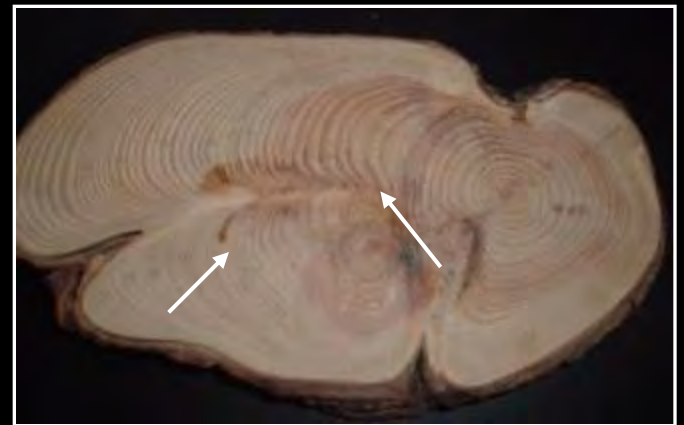


Pinus sylvestris



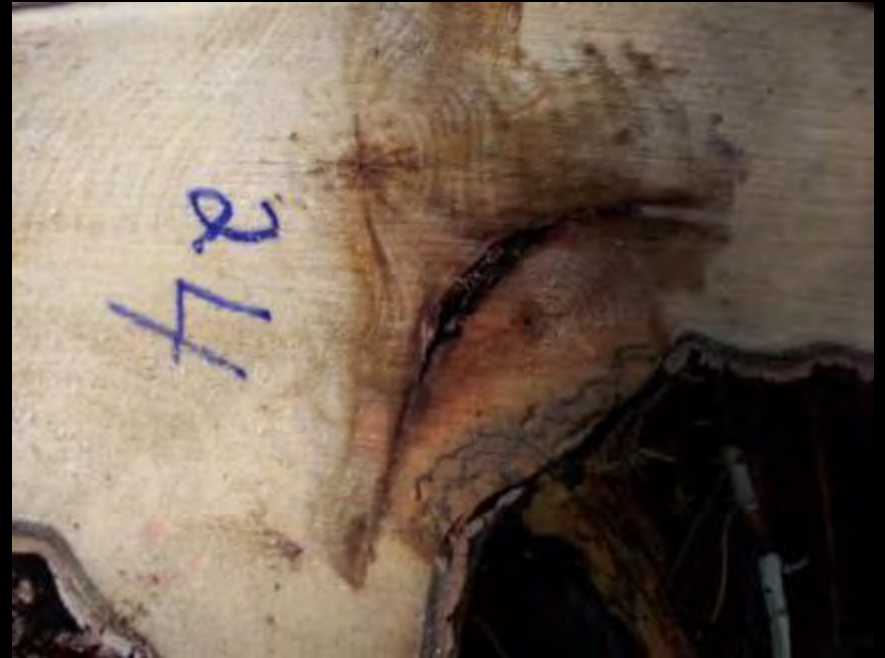
Pinus nigra

Greffe racinaire



Emilie Tarroux, UQAT

Greffes entre clones différents ou non









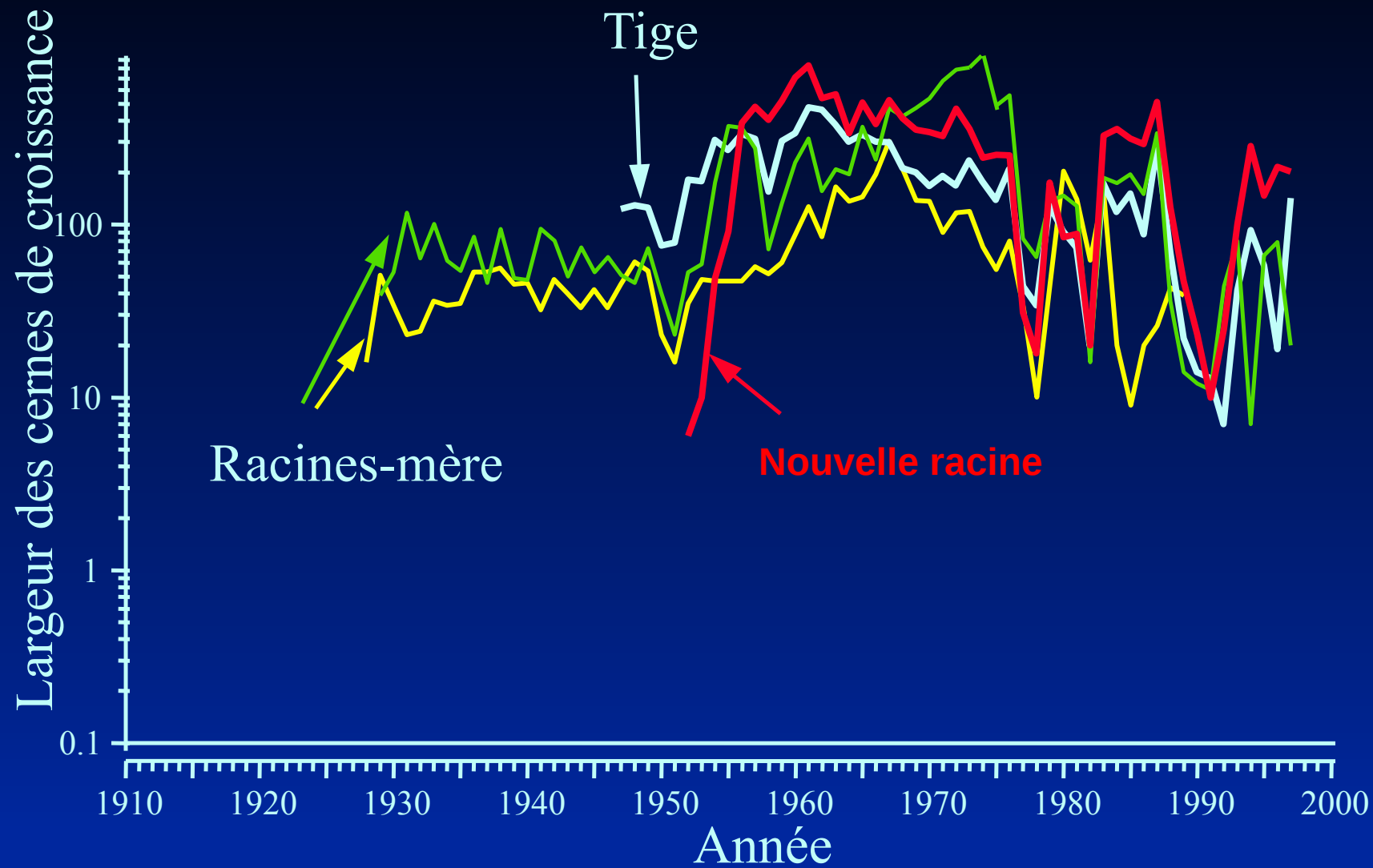






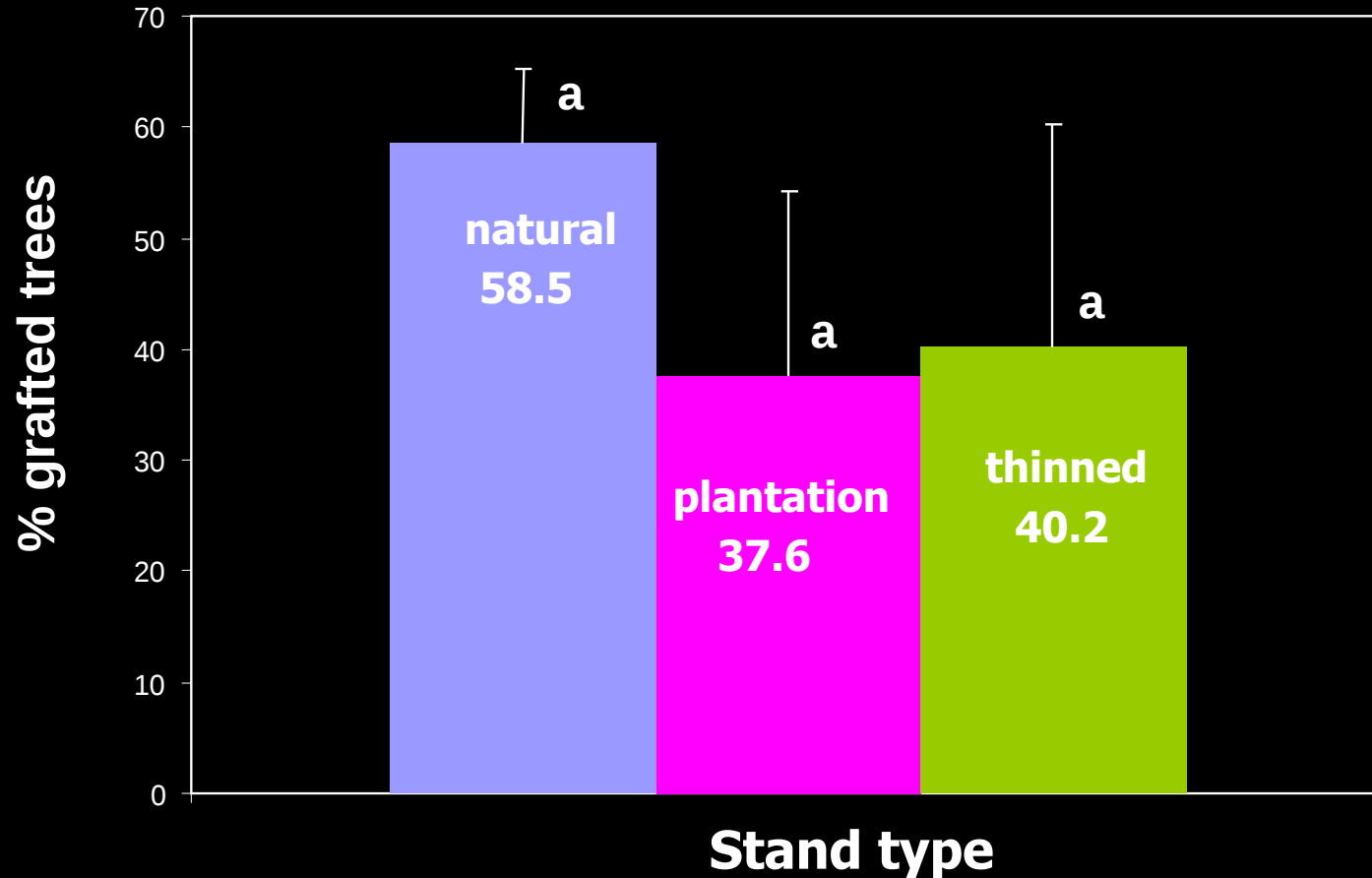




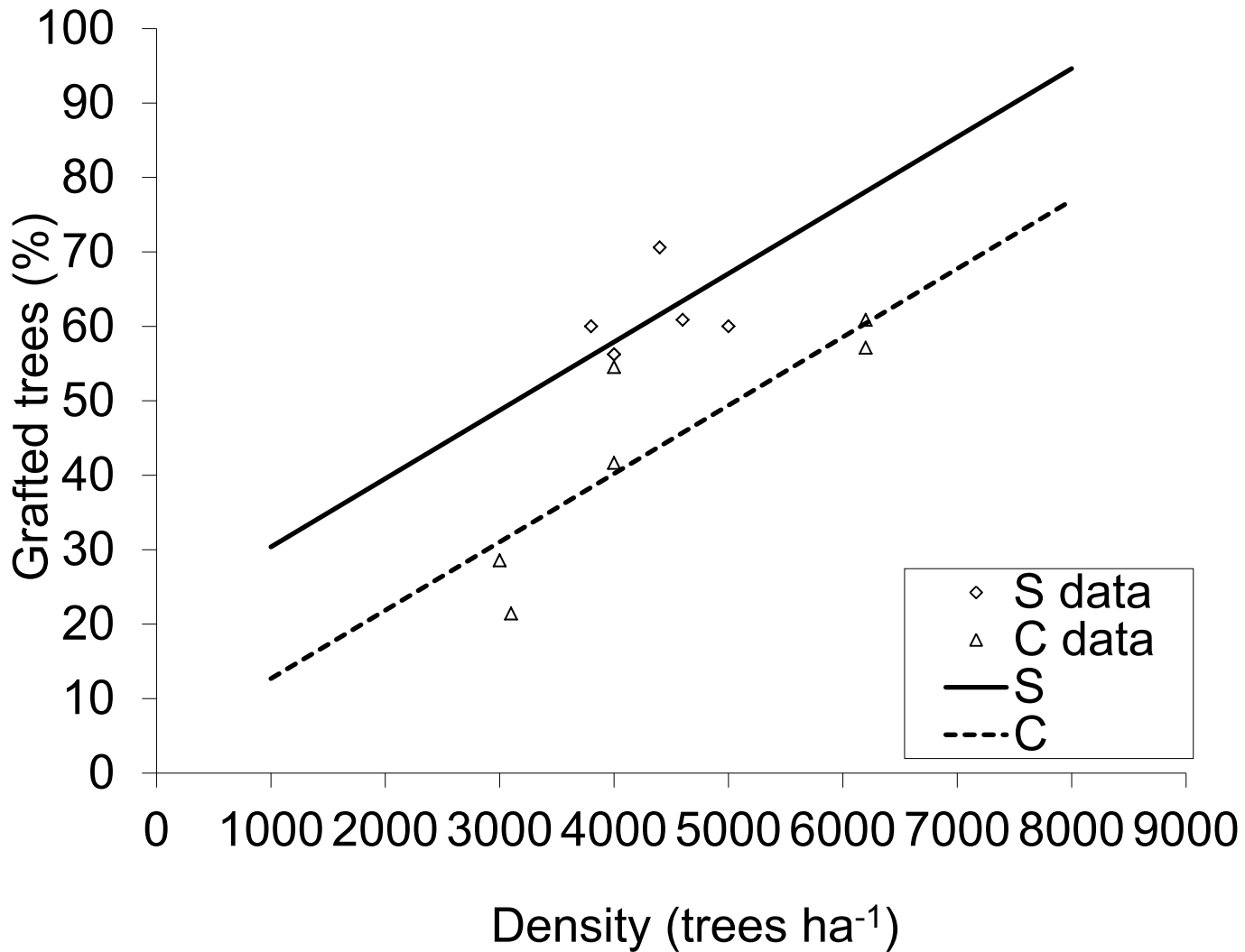


Chez le pin gris:

- 21-71% d'arbres greffés (pas de différence entre peuplements naturels et plantations)



Plus de greffes dans le sable que dans l'argile

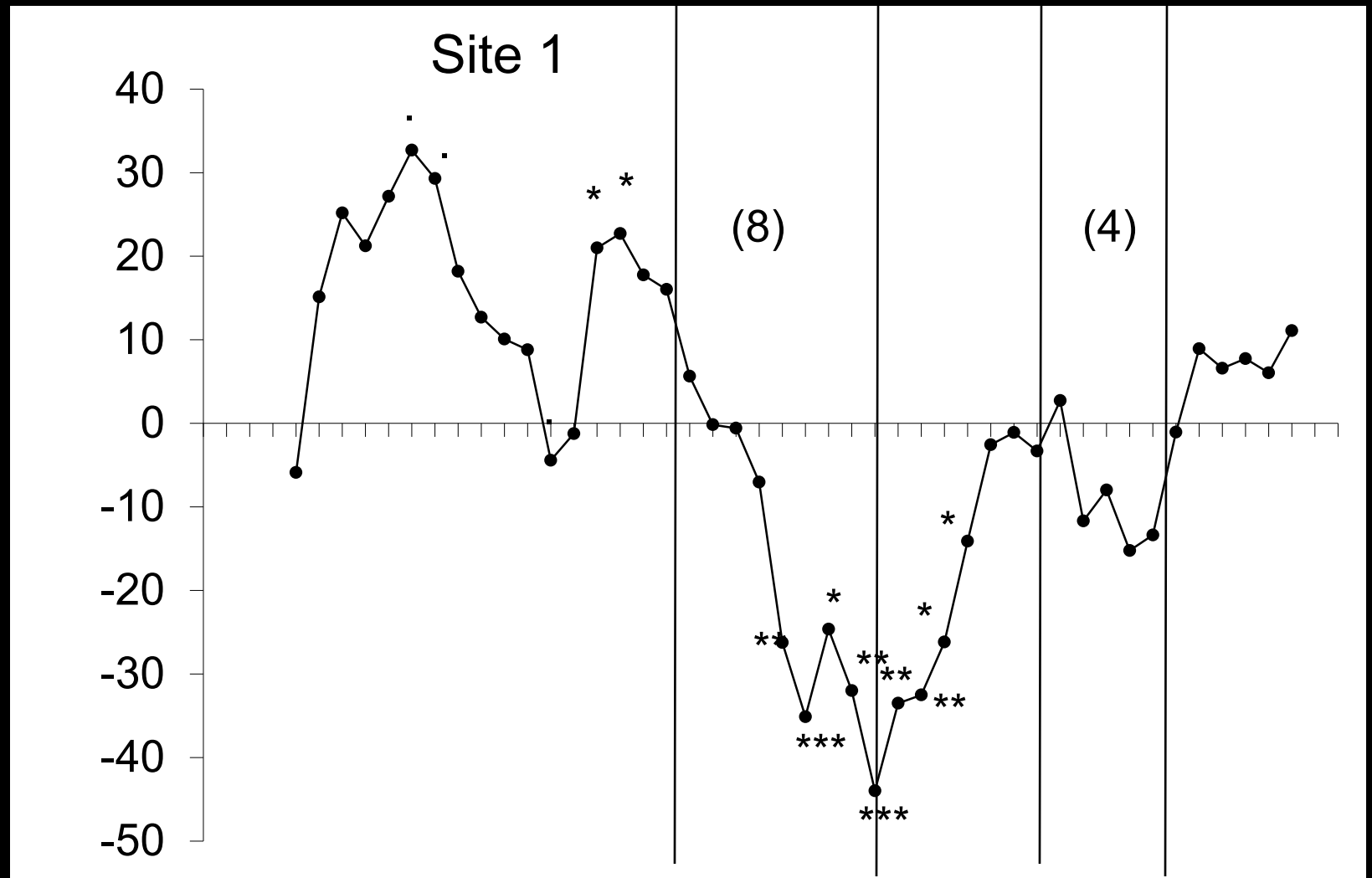


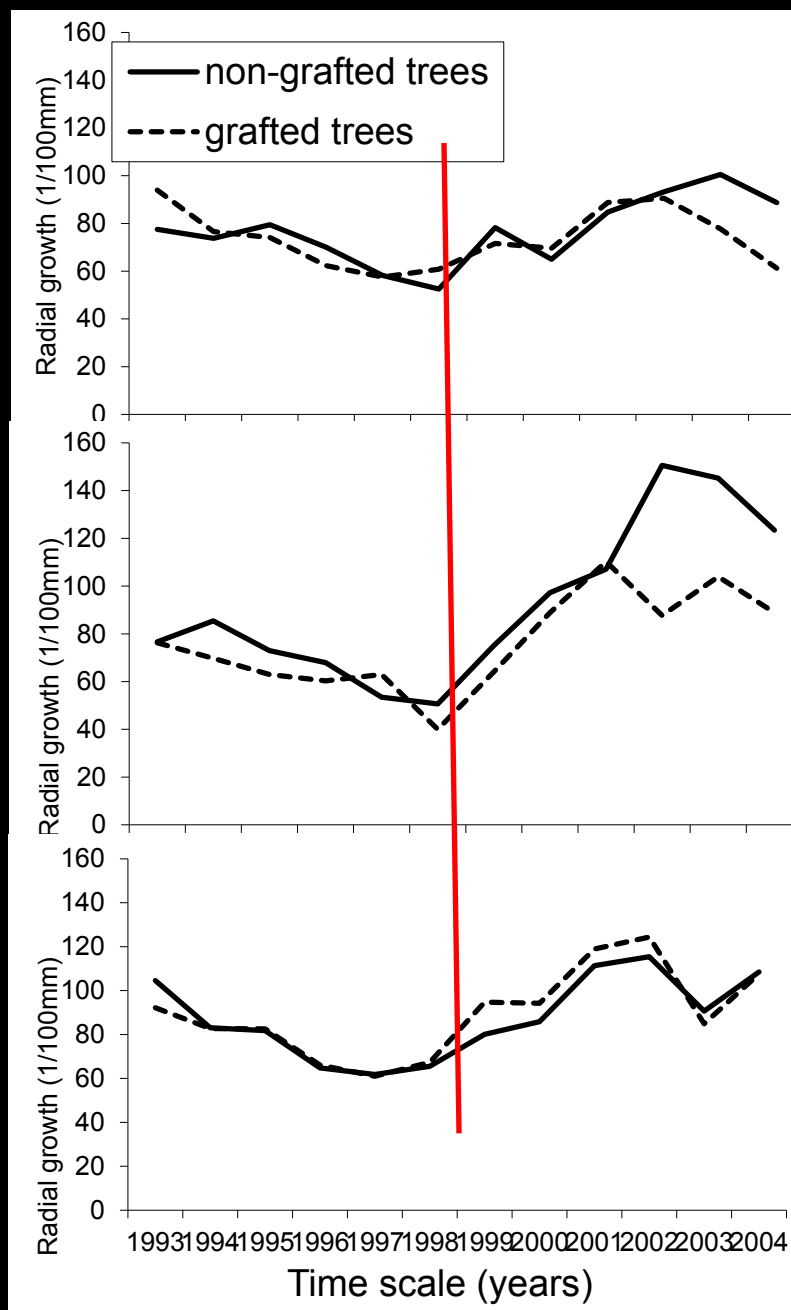
Distance (m)

90% des
greffes

Percent	Percentile	Conf. Li
0,1	3,88743	3,31
0,5	3,25328	2,82
1,0	2,97887	2,61
2,0	2,70245	2,39
3,0	2,53905	2,26
4,0	2,42191	2,16
5,0	2,33009	2,08
6,0	2,25427	2,02
7,0	2,18948	1,9
8,0	2,13275	1,9
9,0	2,08216	1,87
10,0	2,03641	1,8
15,0	1,85458	1,6
20,0	1,71768	1,52
25,0	1,60461	1,39
30,0	1,50584	1,28
35,0	1,41612	1,17
40,0	1,33218	1,07
45,0	1,25169	0,967
50,0	1,17282	0,864
55,0	1,09395	0,759
60,0	1,01346	0,650
65,0	0,929514	0,53
70,0	0,8398	0,410
75,0	0,741025	0,273
80,0	0,627955	0,113
85,0	0,491058	-0,0799
90,0	0,30923	-0,339
91,0	0,263477	-0,40
92,0	0,212888	-0,476
93,0	0,156156	-0,558
94,0	0,0913658	-0,651
95,0	0,0155476	-0,760

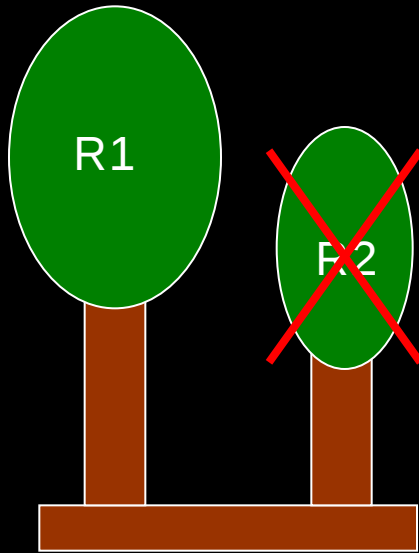




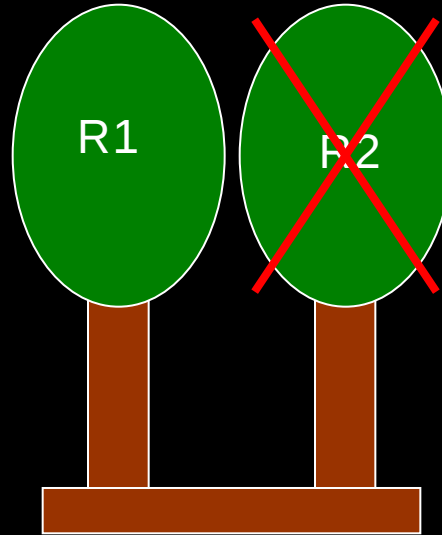




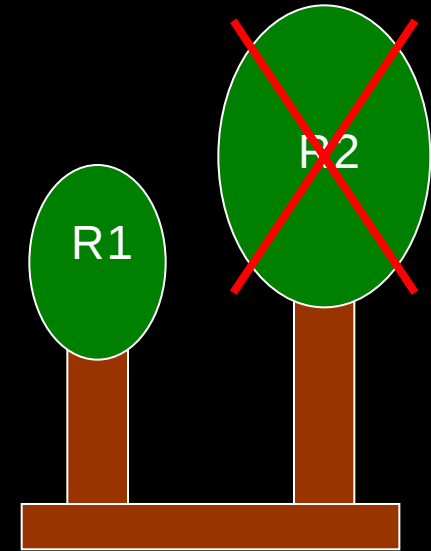
In situ defoliation experiment in aspen



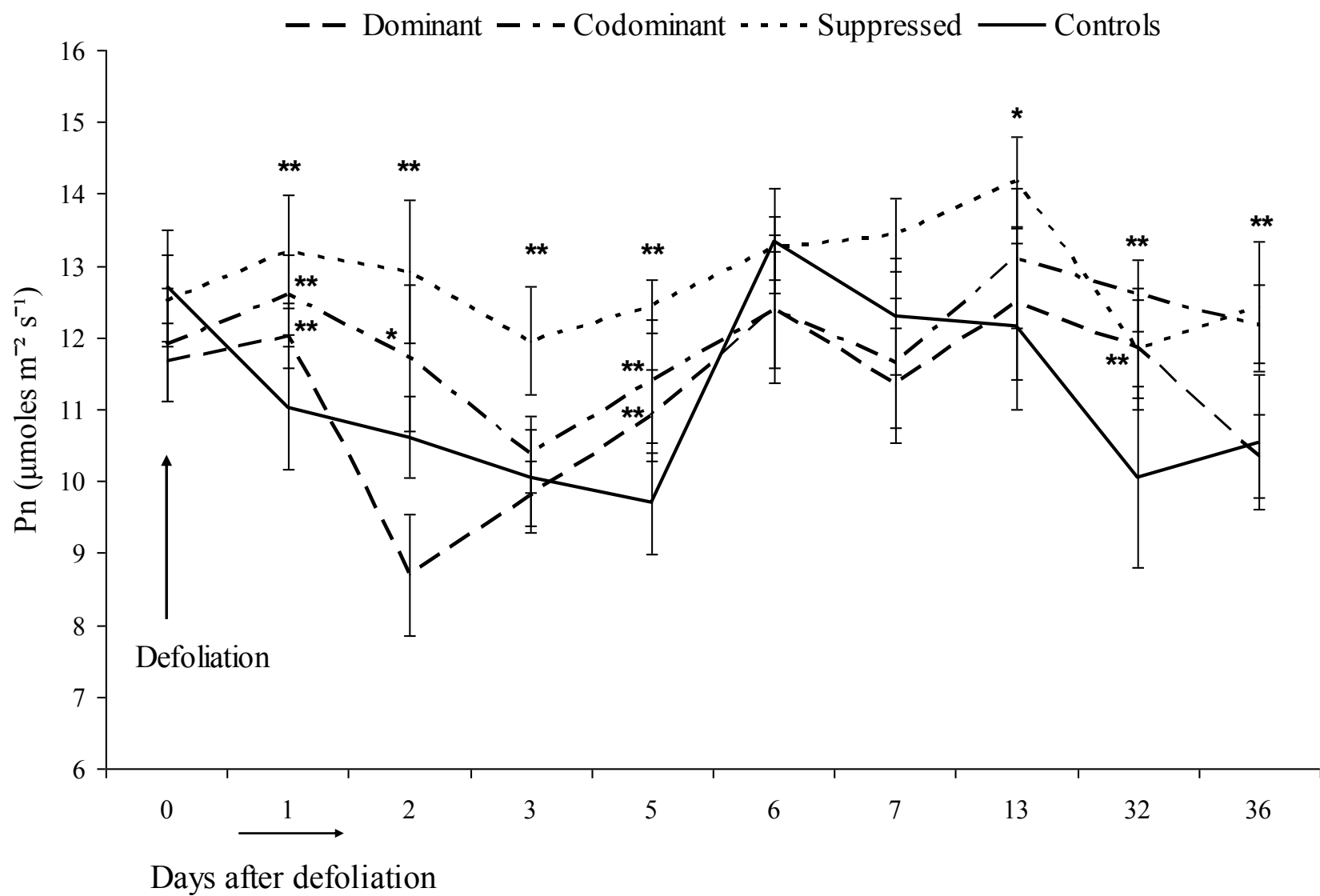
Dominant



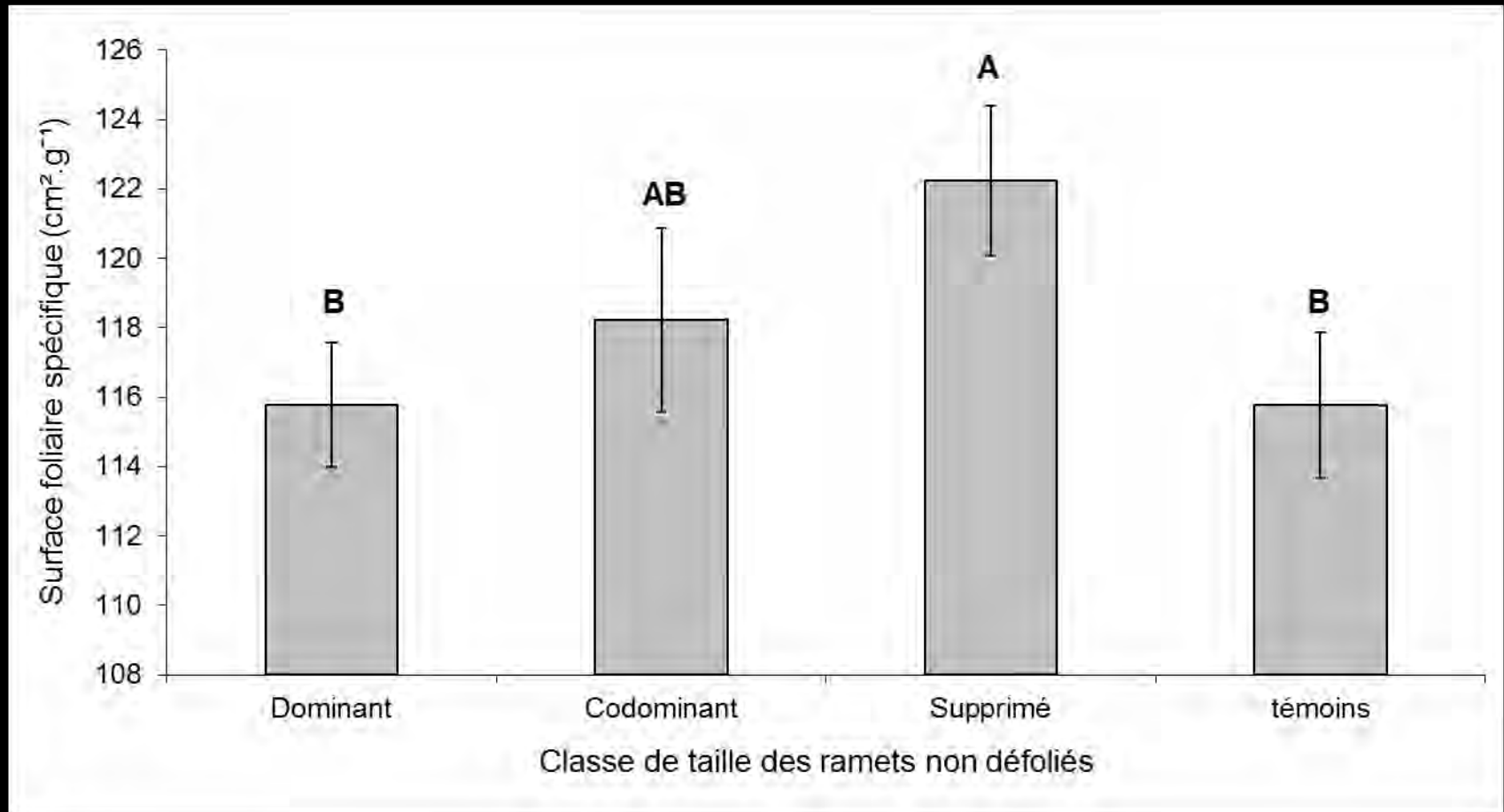
Codominant



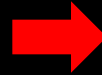
Suppressed

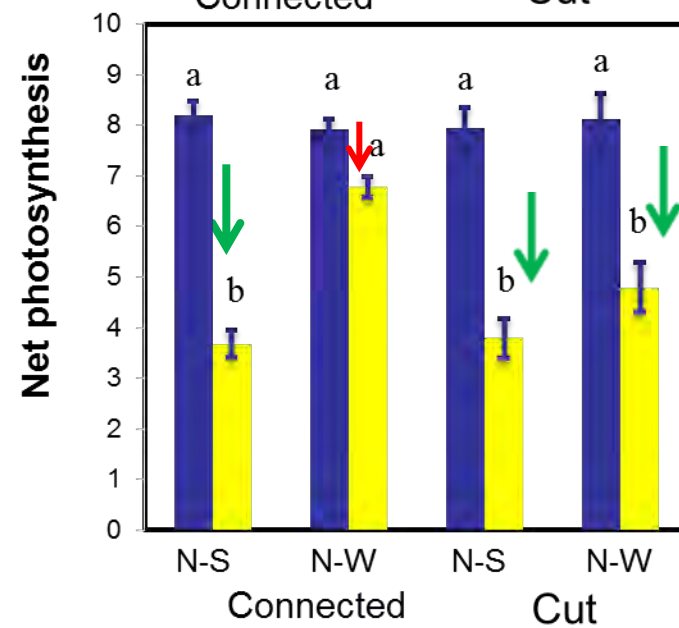
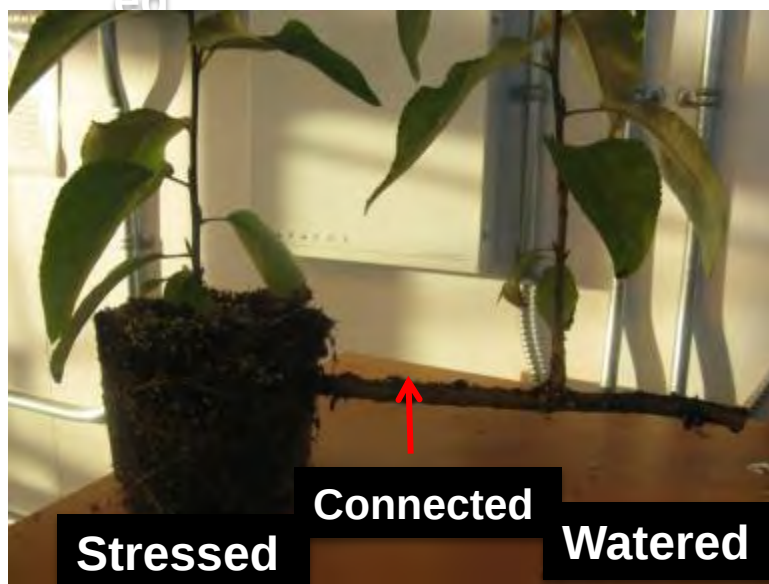
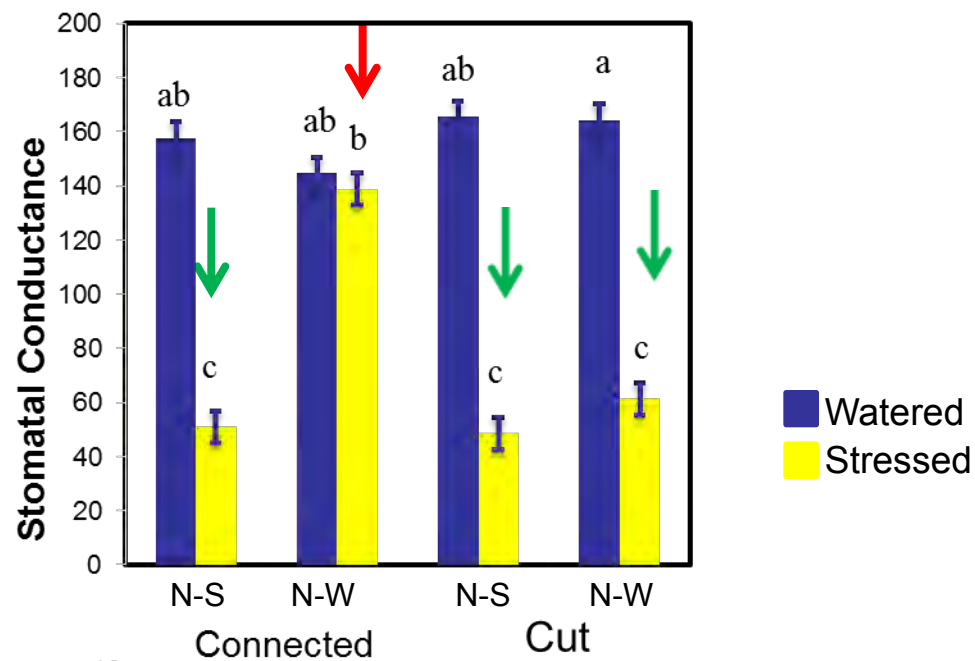


Surface foliaire spécifique



Tranfert d'eau par les liens racinaires



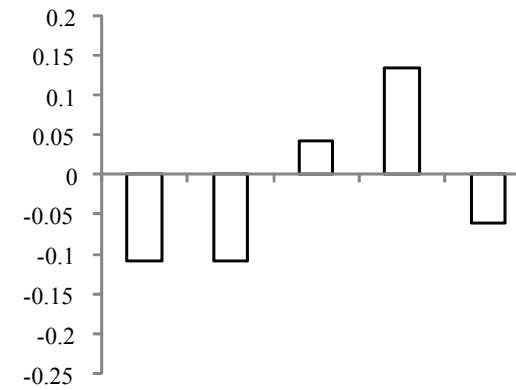
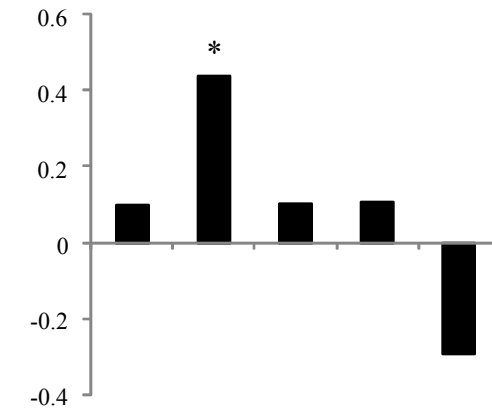




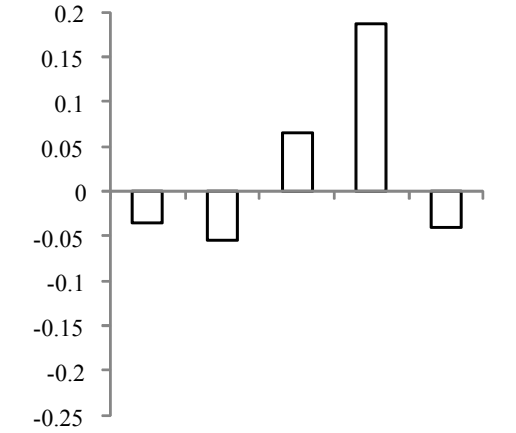
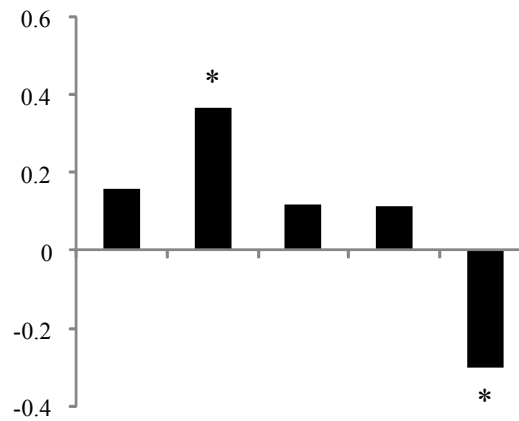
Température

Précipitations

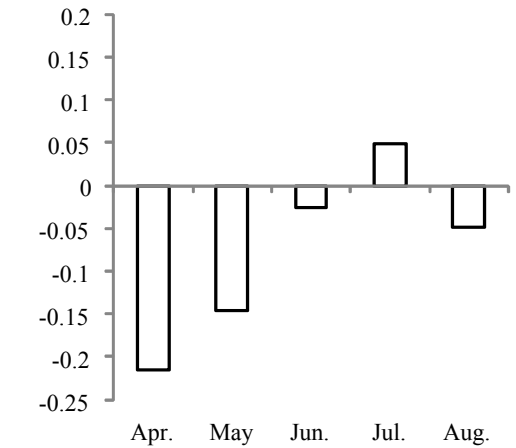
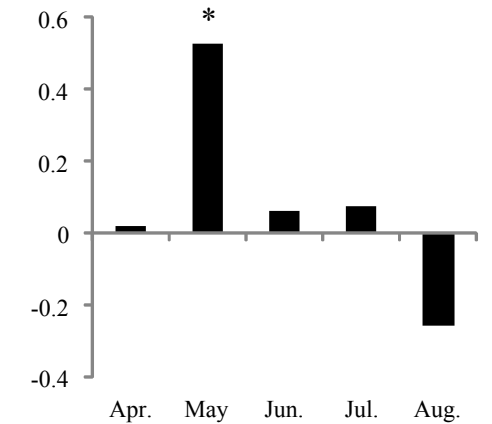
Tous

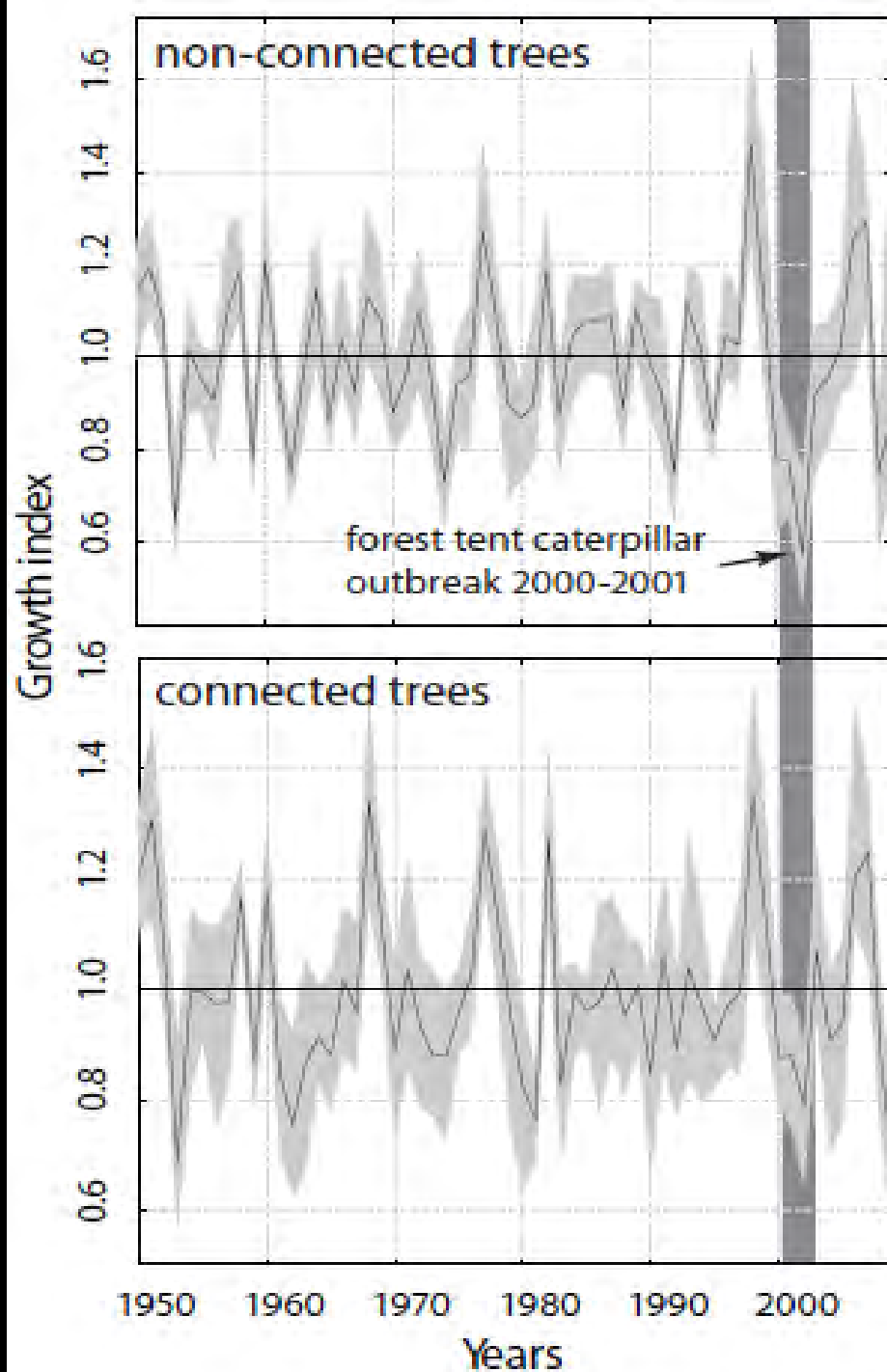


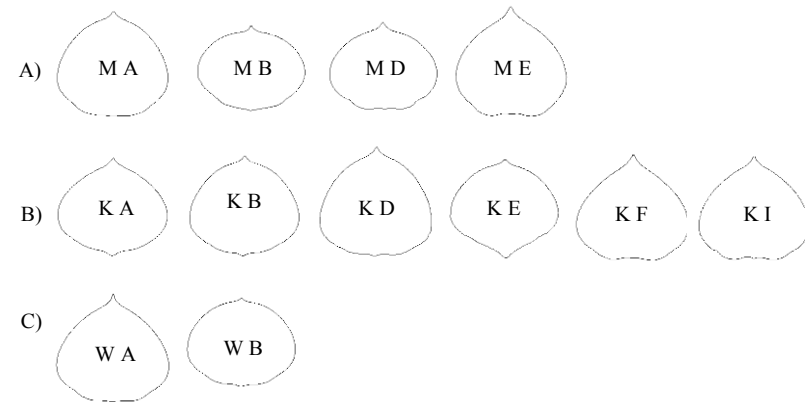
Non-connectés



Connectés







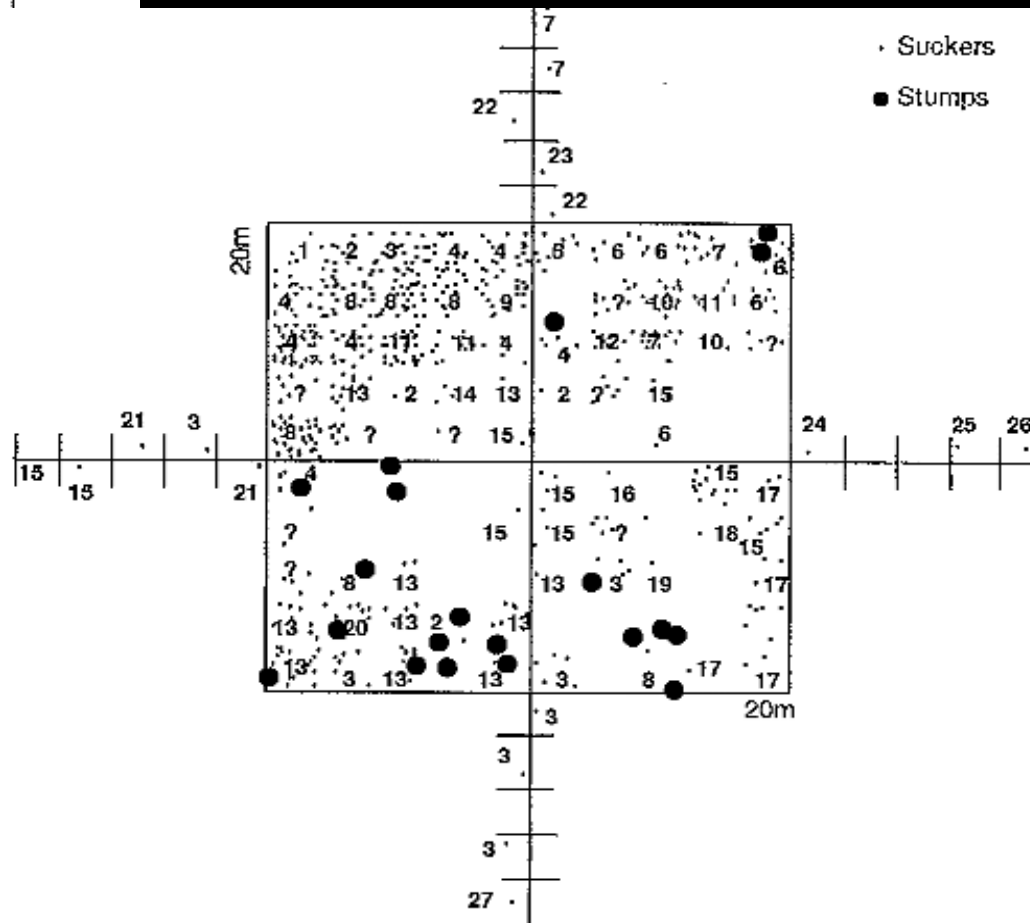
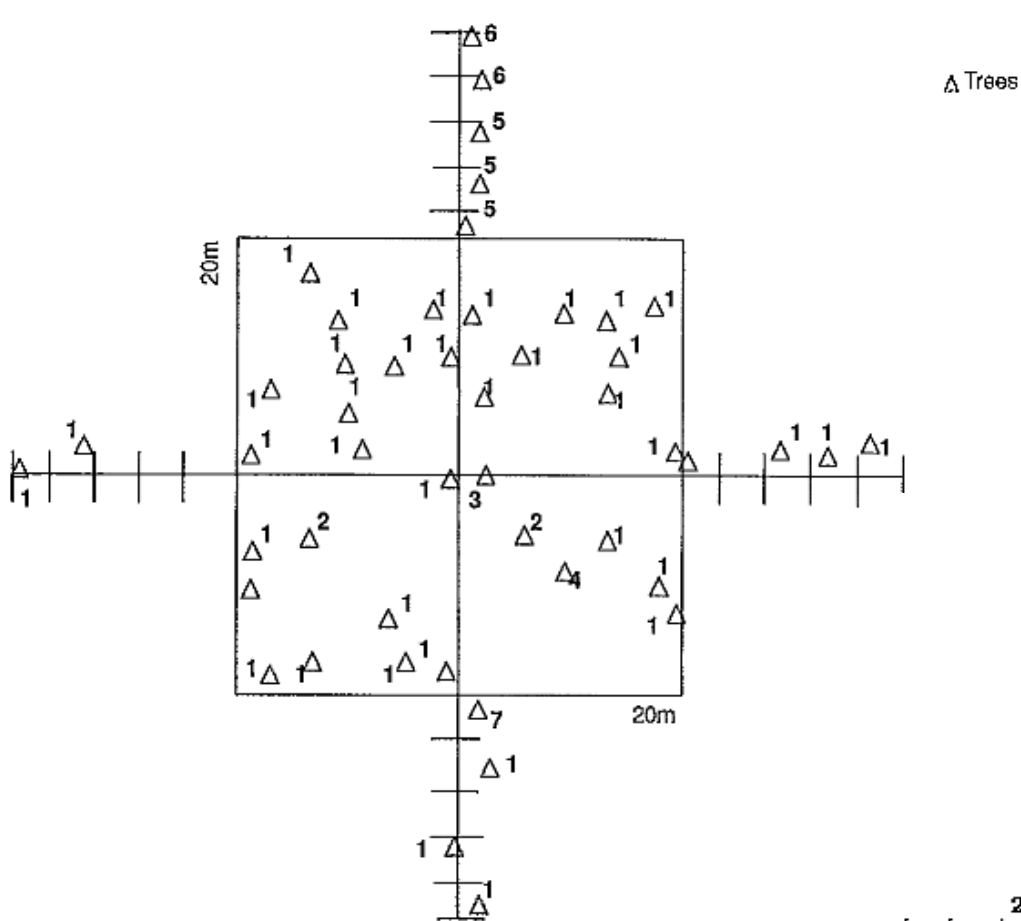
Végétative



Sexuée







“Genotype Bank” Hypothesis















A

B



Merci!

