



Decrease of vineyard pest abundances
influenced by landscape diversity
and semi-natural habitats

Bordeaux Sciences Agro - France



BORDEAUX
SCIENCES
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2 sites (18 vineyards per site) and contrasted viticultural regions



Libournais
(Pomerol, Saint-Emilion)

Oceanic



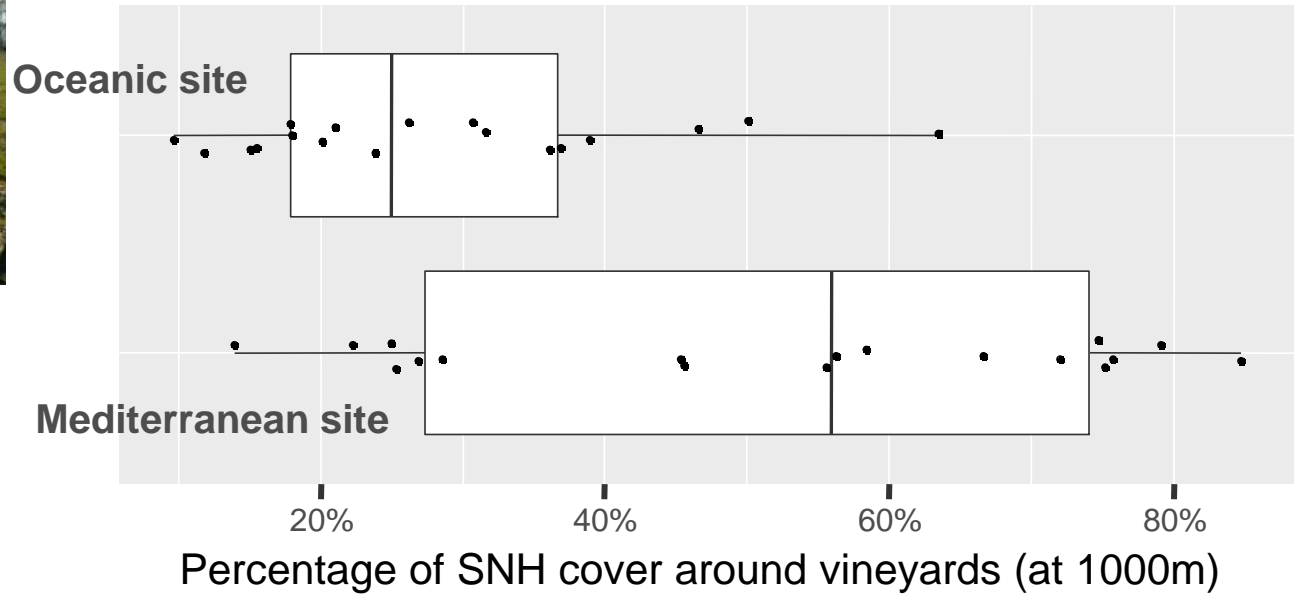
Mediterranean

Languedoc
(Terrasses du Larzac)





2 sites (18 vineyards per site) and contrasted SNH gradients





2 pest species associated with vineyards and contrasted traits (specialization)



European Grapevine Moth
(*Lobesia botrana*)

→ damage on grapes

damage on leaves
(photosynthetic capacity)



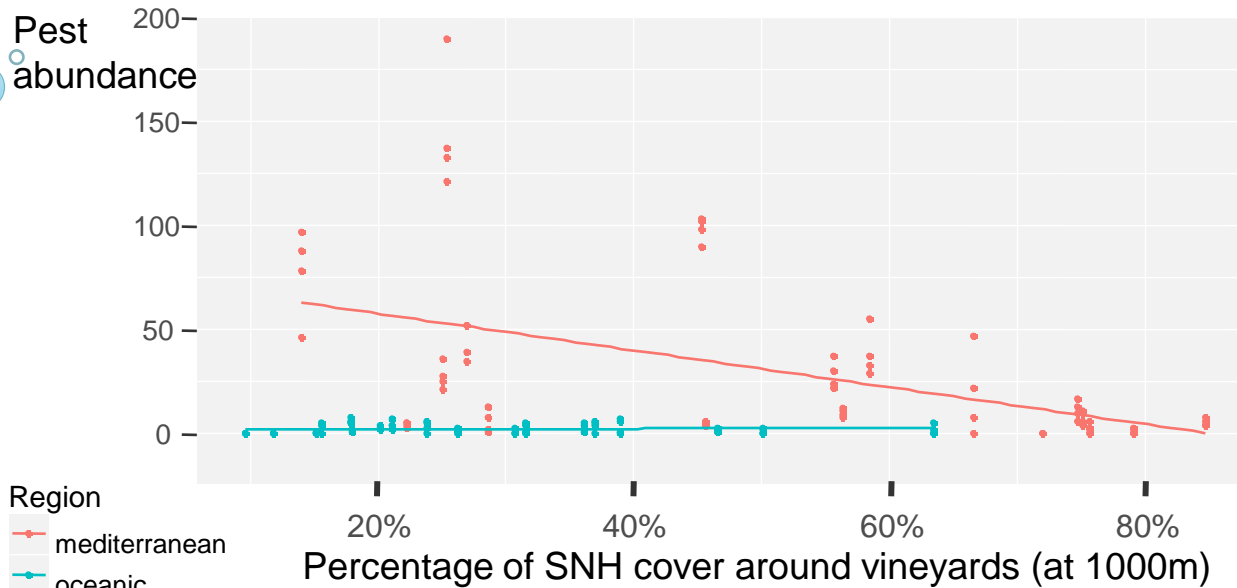
Vine leafhopper (*Empoasca vitis*)

→ Abundance of larvae
measured in all vineyards

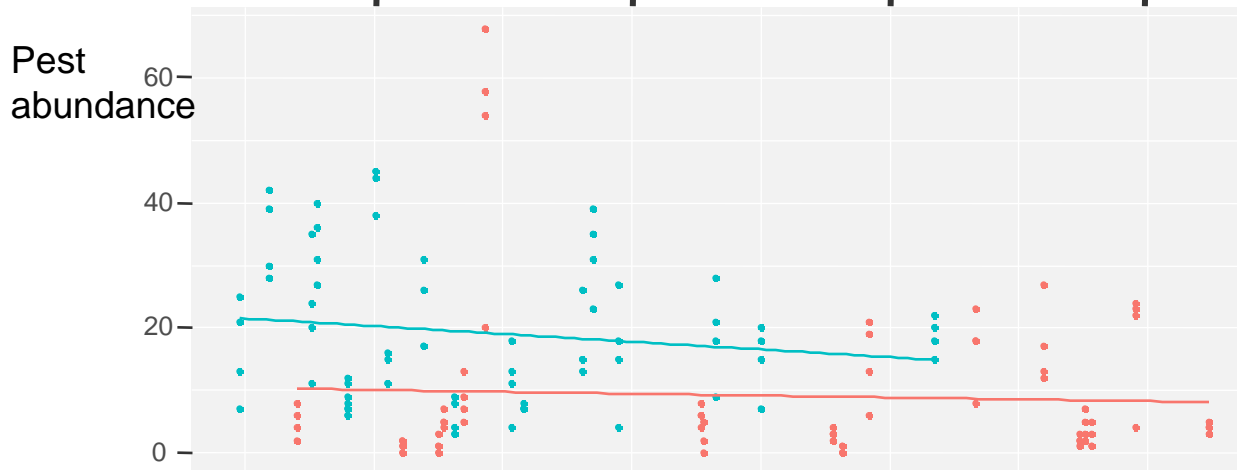




2 contrasted responses to SNH gradients



European Grapevine Moth (*Lobesia botrana*)

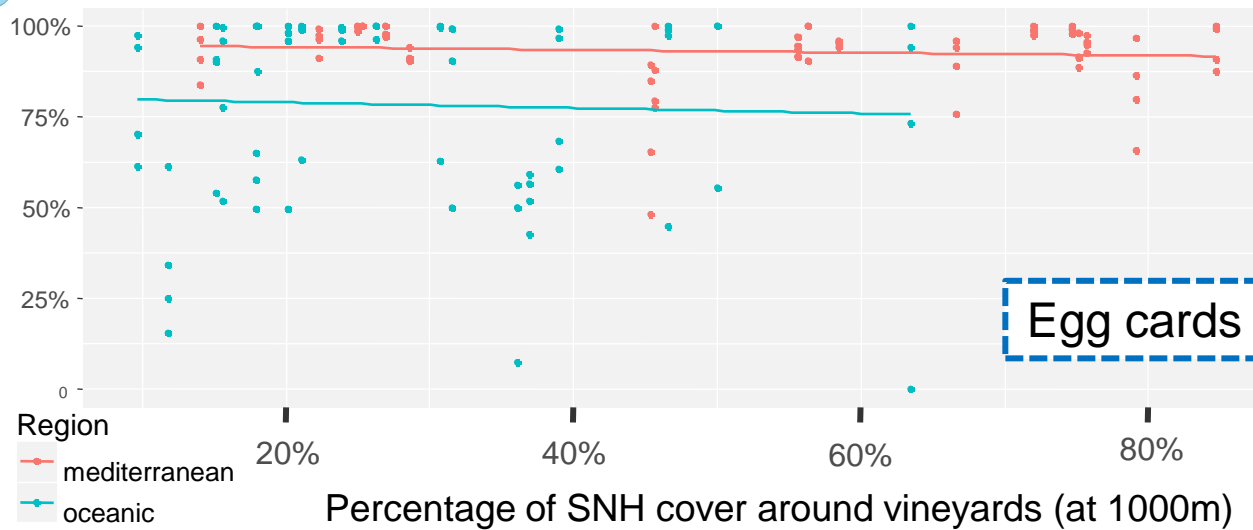


Vine leafhopper (*Empoasca vitis*)

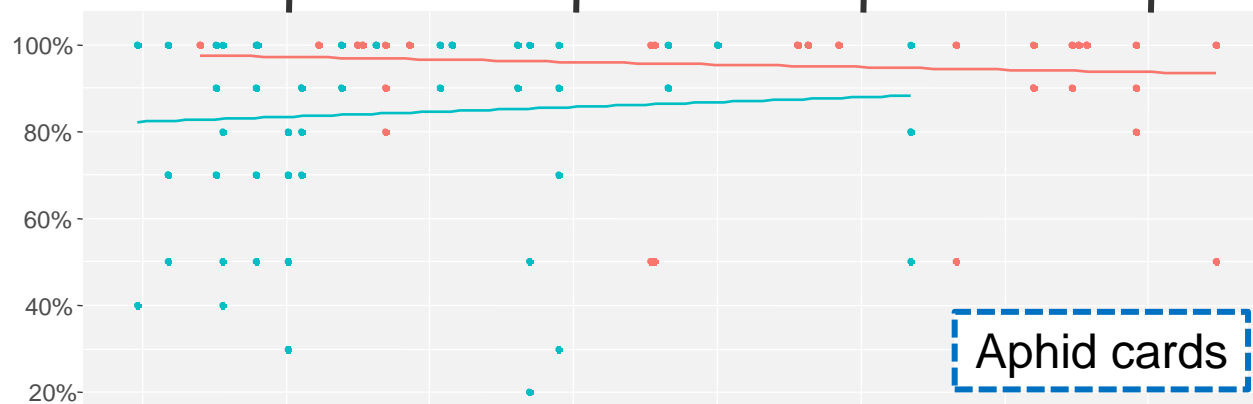




2 predation rates linked to pest species and no effects of SNH gradients...



European Grapevine Moth (*Lobesia botrana*)



Vine leafhopper (*Empoasca vitis*)





Libournais

Ch. La Croix de Grézard ; Ch. Grand Ormeau ;
Ch. Mazeyres ; Vignerons de Puisseguin-Lussac St
Emilion ; Ch. Croix-Mouton ; Ch. Corbin ;
Ch. La Grande Clotte ; Ch. Croix Beauséjour ;
Ch. des Laurets ; Ch. Mangot ; Ch. Certan de May ;
Ch. Guibot La Fourvielle ; Ch. Figeac ;
Ch. Champ de Nayat ; Ch. Lambersac ;
Ch. Guillemot ; Ch. Côtes de St Clair



... and to Benjamin Joubard
and all the students involved
in the field work
as well as all the vine-growers

Terrasses du Larzac

Mas de la Seranne ; La Réserve d'O ;
Les Vignerons de St Félix - St Jean ;
Dom. Mon Rêve ; Mas Fonbonne ; Ch. Capion ;
Dom. de Montnègre ; Mas des Chimères ;
Dom. St Sylvestre ; Mas Cal Demoura ;
Les Côteaux du Castellas ; Dom. La Croix Chaptal
; Dom. Alexandrin ; Dom. de Montcalmès ;
Plan de L'Homme ; Ch. La Sauvageonne ;
Dom. Virgile Joly