

The International effort on biological control of tutsan (*Hypericum androsaemum*) in New Zealand

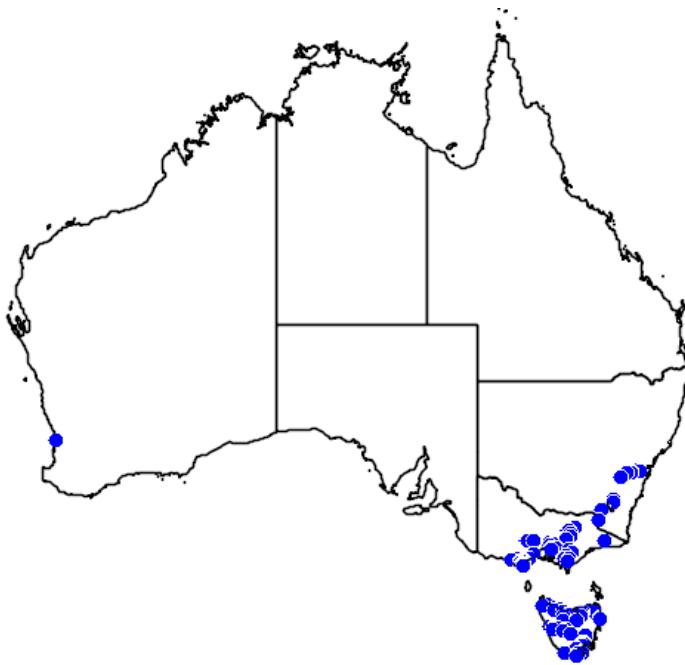
Hugh Gourlay¹, E. Rendell, E. Olsen, R. Groenteman, C. Probst, M. Padamsee, S. Bellgard, D. Goeke,



Tutsan, *Hypericum androsaemum*.

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the Ministry for Primary Industry, Sustainable Farming Fund and the
Tutsan Action Group.





Historical background in New Zealand and Australia



Melampsora hypericorum



The Emerging Problem in New Zealand



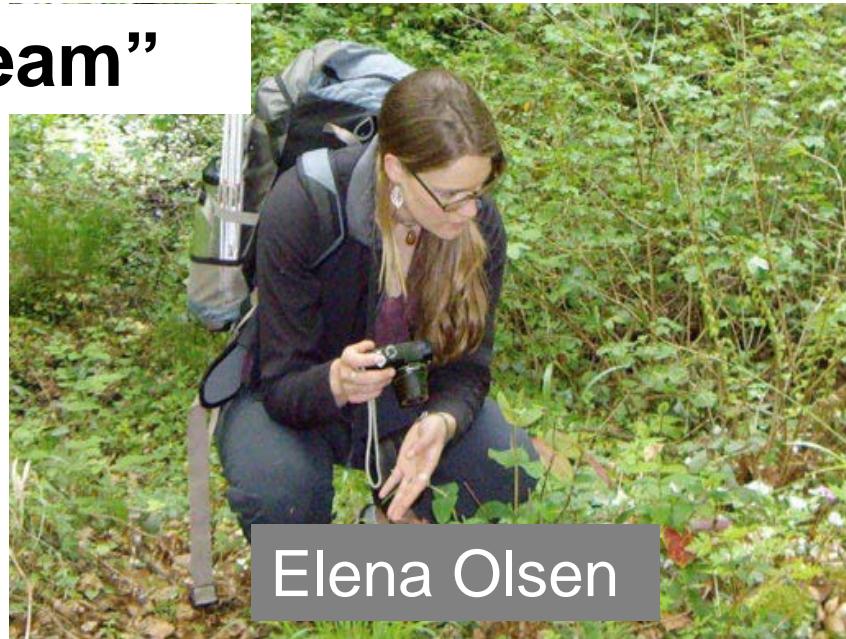
Environmental and Economic Impacts



The “Team”



Chantal Morin



Elena Olsen



TAG members



Elizabeth Rendell

New Zealand surveys



European biocontrol agent surveys



Chrysolina varians



Lathronympha strigana

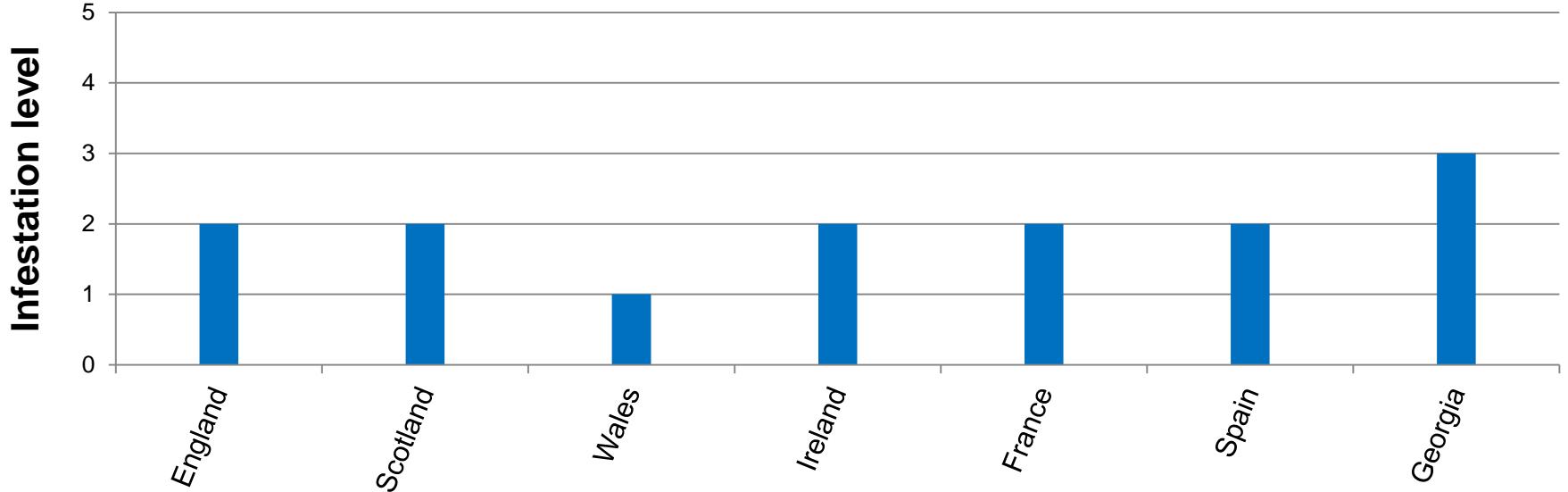
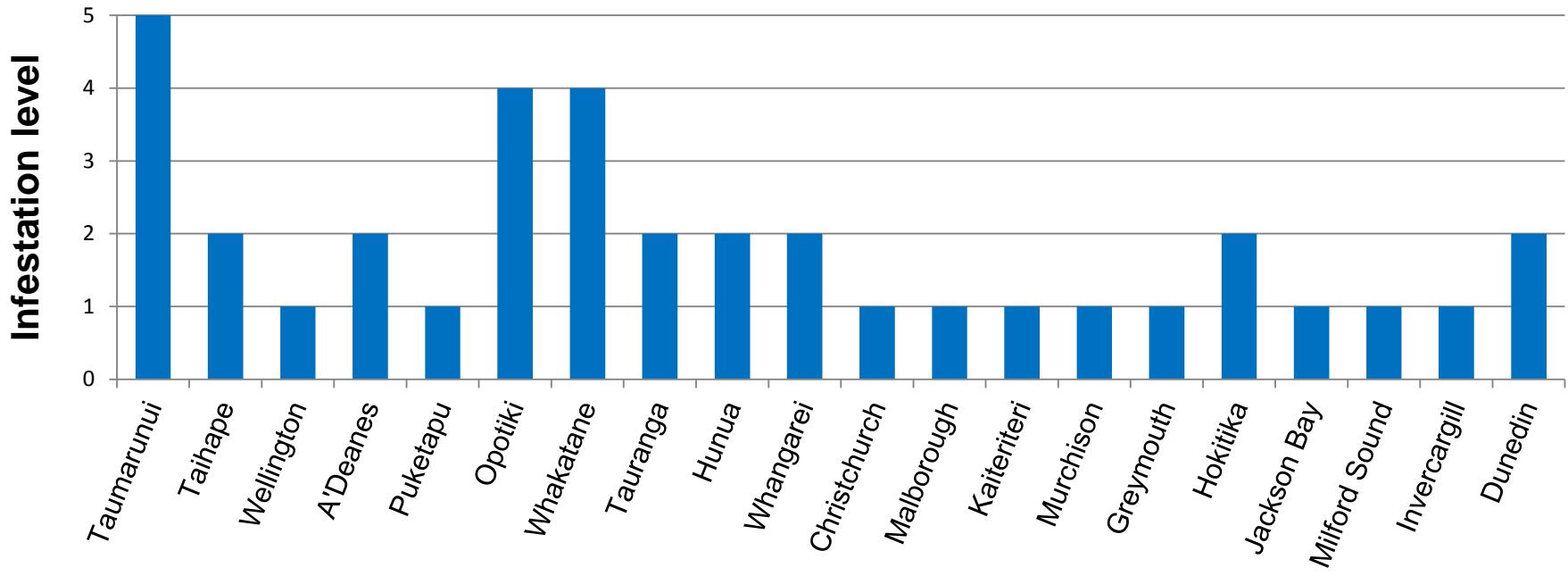


Chrysolina abchasica

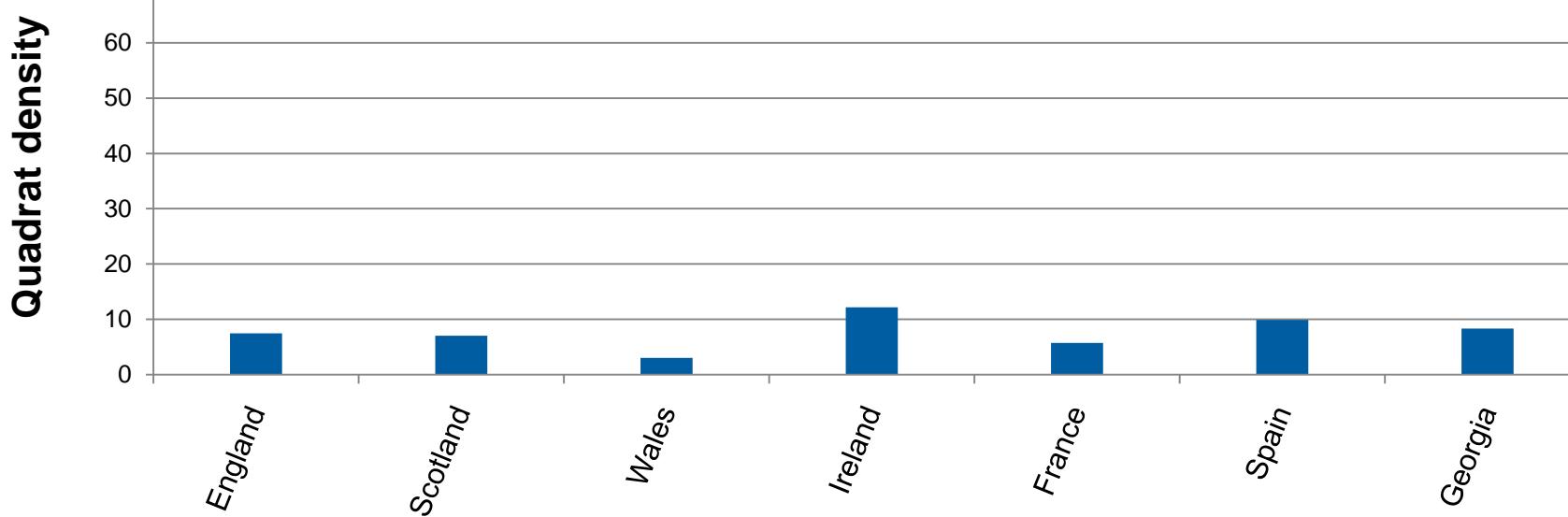
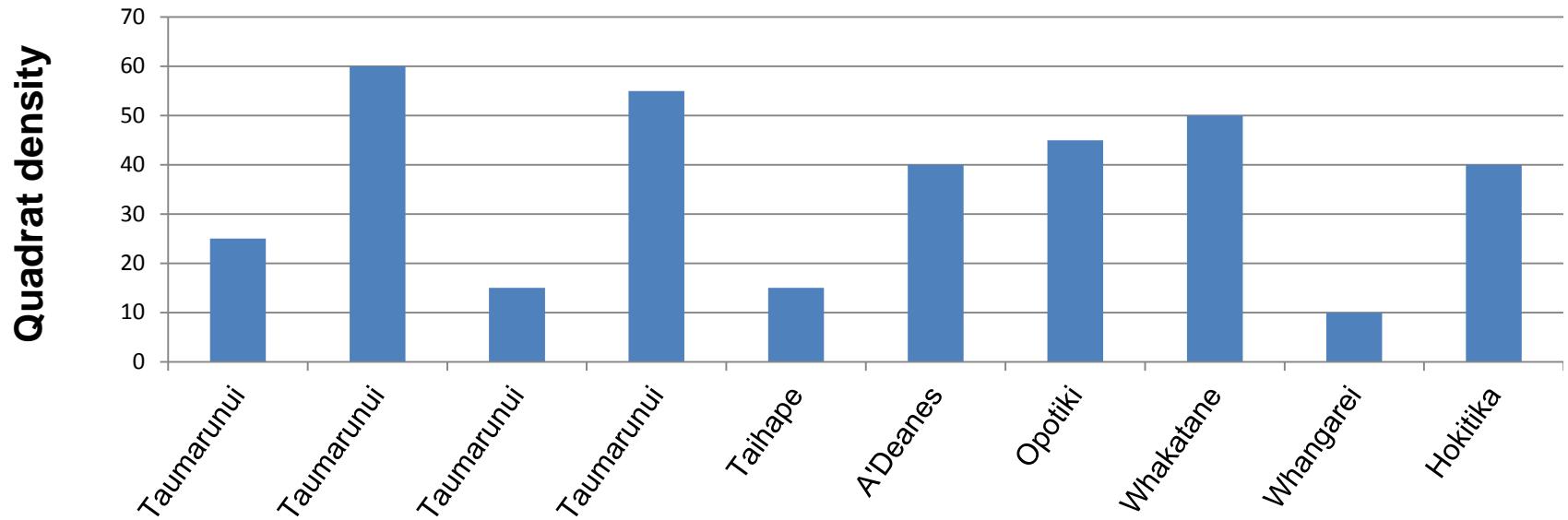


Chrysolina brunsvicensis

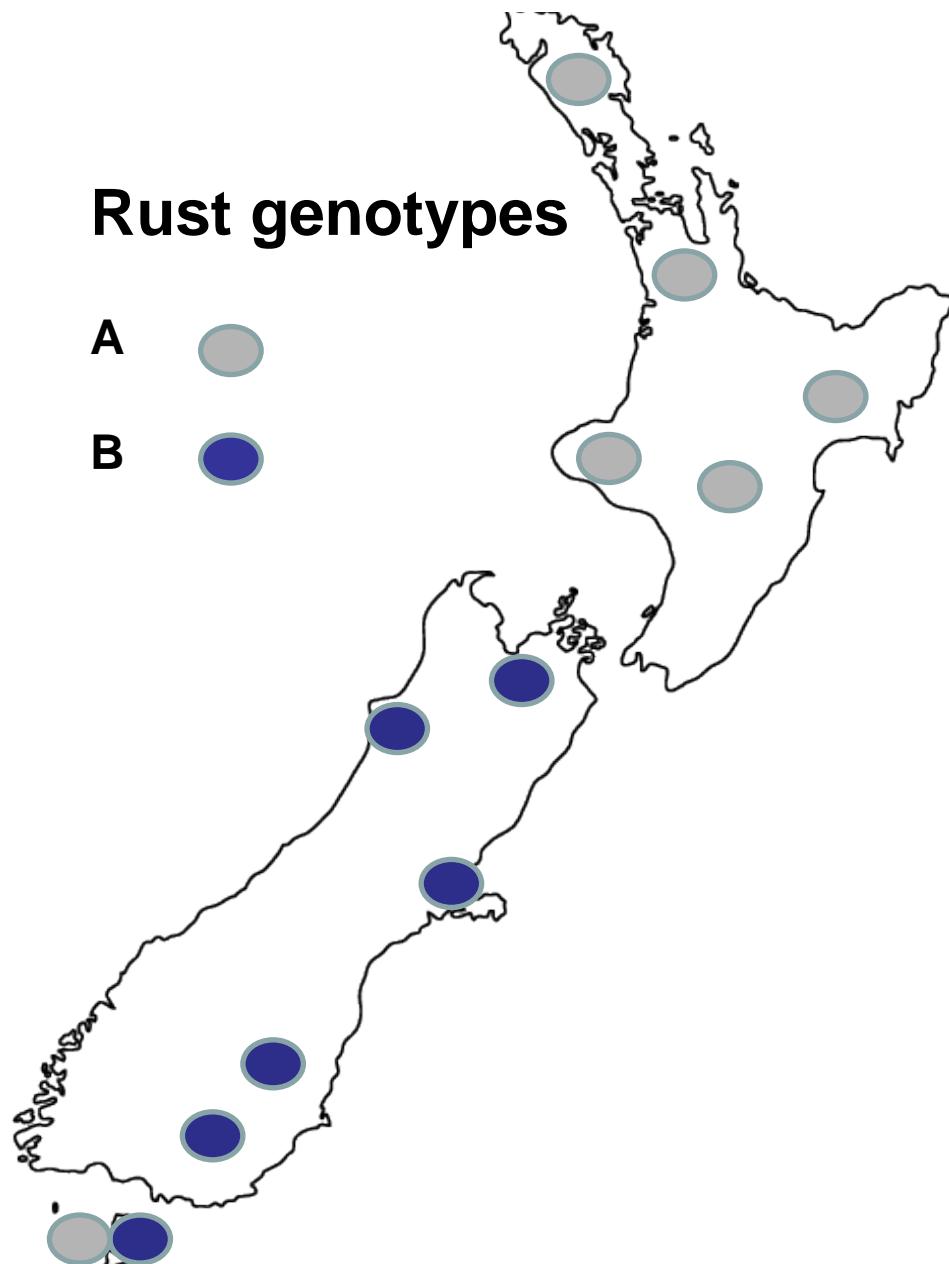
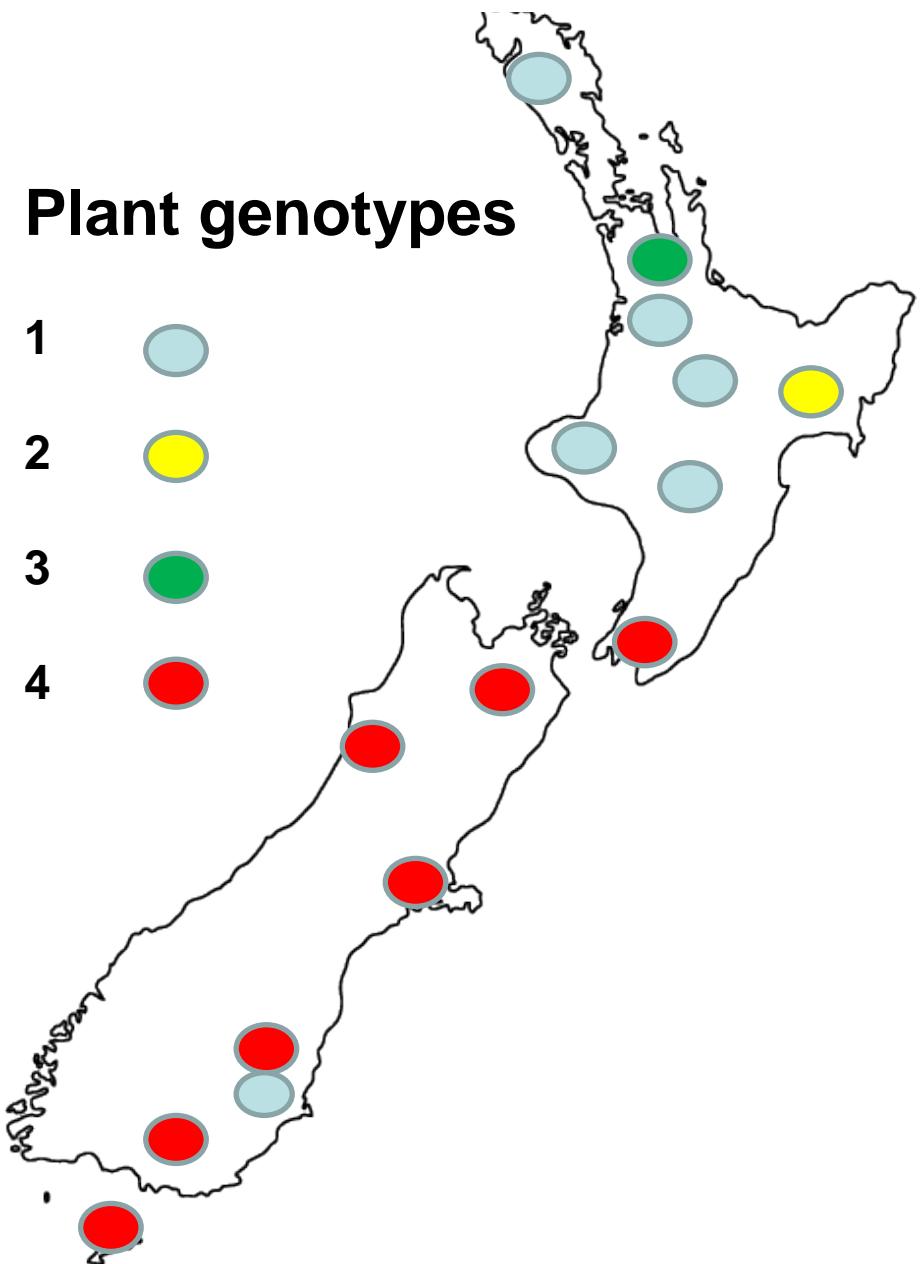
Scored infestation levels of tutsan in New Zealand and Europe



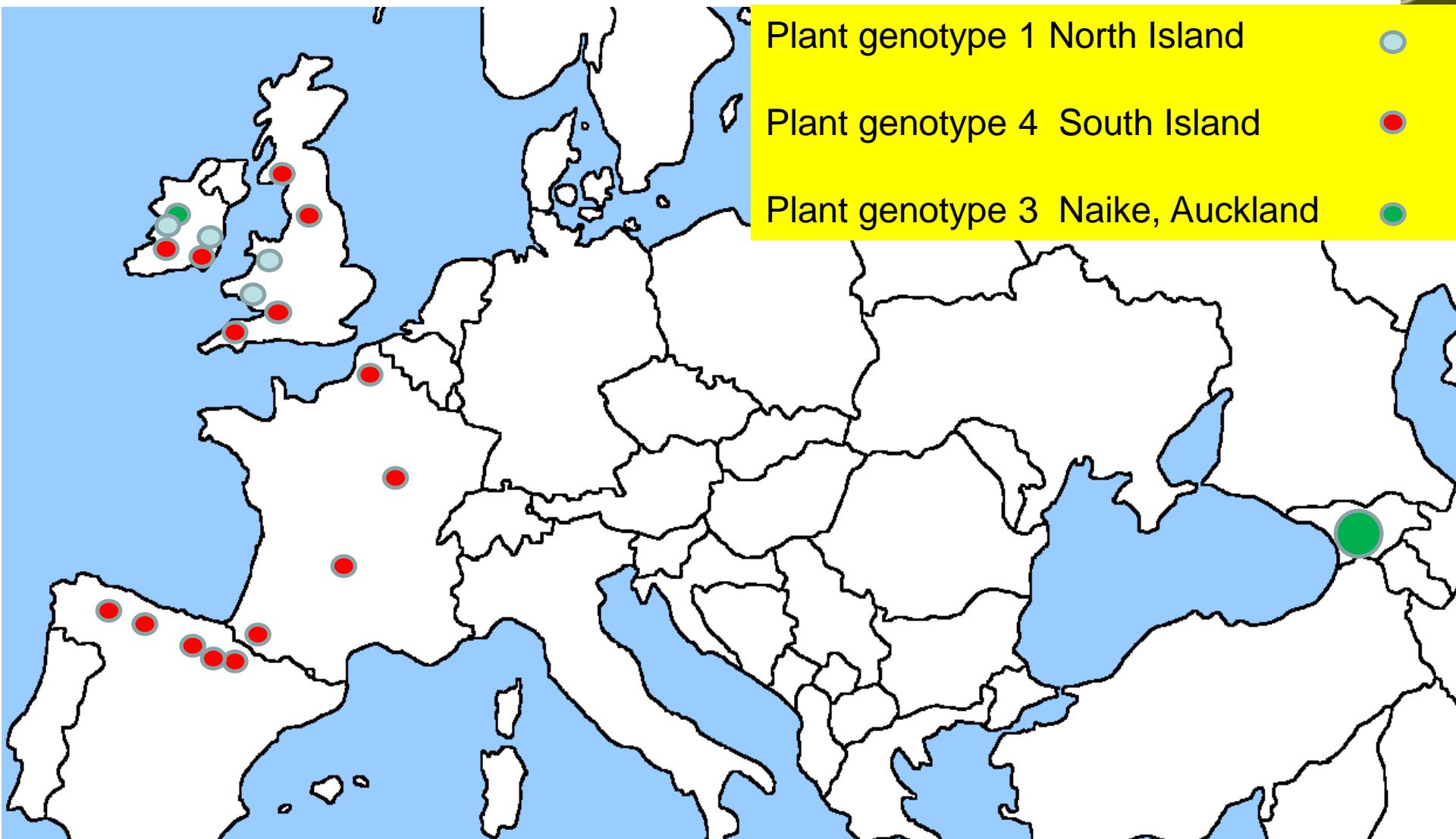
Quadrat density of tutsan plants in New Zealand and Europe



Tutsan plant and rust DNA genotypes and locations in New Zealand



European survey results of tutsan plant types and their locations.



European survey results of tutsan rust types and their locations.

