

Recording Invasive and Non-Native Plants in the Cyprus SBAs



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30th August 2017

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Species on the move...

Agriculture (contaminant)

Recorded (archaeologically) from the late Bronze Age onwards



Horticulture/forestry

A selection of species tried in Cyprus (Bovill, 1915)

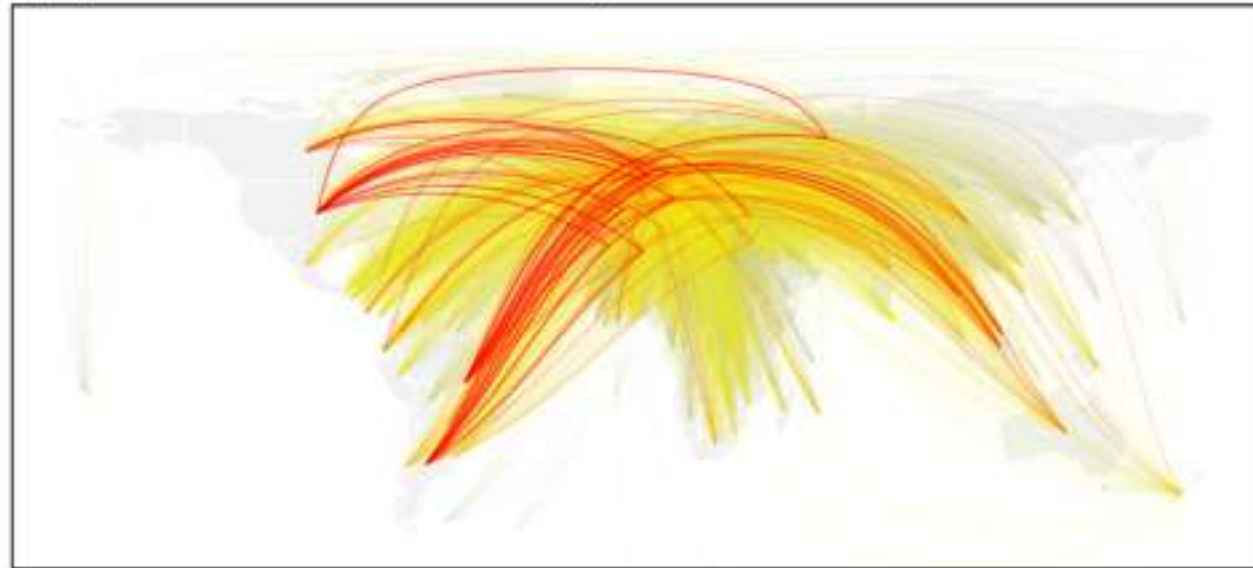
The following have been tried, but without any marked success, some of them are alive but that is all.

	from the Director of Agriculture				
Sophora Japonica	"	"	"	"	"
Paliurus aculeatus	"	"	"	"	"
Acer Negundo	"	"	"	"	"
Ulmus campestris	"	"	"	"	"
Cercis Siliquastrum	"	"	"	"	"
Quercus Aegilops	"	"	"	"	"
Genistra tintoria	"	"	"	"	"
Cornus sanguineus	"	"	"	"	"
Stipa tenacissima	"	"	"	"	"
Rumex hymenocarpus	"	"	"	"	"
Rhus cotinus	"	"	"	"	"
Chimonanthus fragrans	"	"	"	"	"
Diospyrus Lotus	"	"	"	"	"
Hedysarum coronarium	"	"	"	"	"
Maclura Aurantiaca	"	"	"	"	"
Panicum decompositum	"	"	"	"	"
Poterium sanguisorba	"	"	"	"	"
Polygala Apopetala	"	"	"	"	"
Parkinsonia Torreyana	"	"	"	"	"
Capsicum baccatum	"	"	"	"	"
Jacaranda Mimosaefolia	"	"	"	"	"
Prosopis pubescens (torilla)	"	"	"	"	"
Prosopis juliflora (Mezquita)	"	"	"	"	"
Chilopsis Saligna	"	"	"	"	"
Acacia Giraffi	"	"	"	"	"
Protea	"	"	"	"	"
Lantana Hybrida	"	"	"	"	"
Erythea Armata	"	"	"	"	"
Erythea Edulis	"	"	"	"	"
Melia Azederach Umbraculifera	"	"	"	"	"

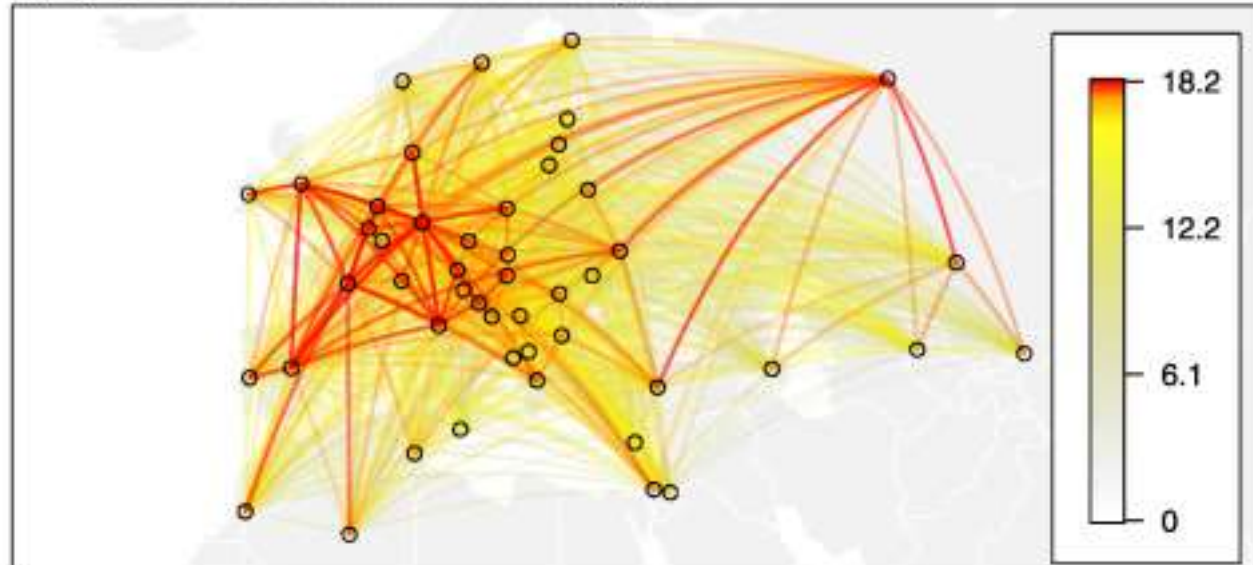
Movement of (pest) species

- Connectivity through global trade networks best explanatory variable for current invasion pattern in EU

(a) Agricultural trade flow into the EPPO region



(b) Agricultural trade flow within the EPPO region



Chapman *et al.* (2017)

Observing the aliens among us



Key:
1–50 species
51–100 species
101–150 species
151–200 species
201–320 species

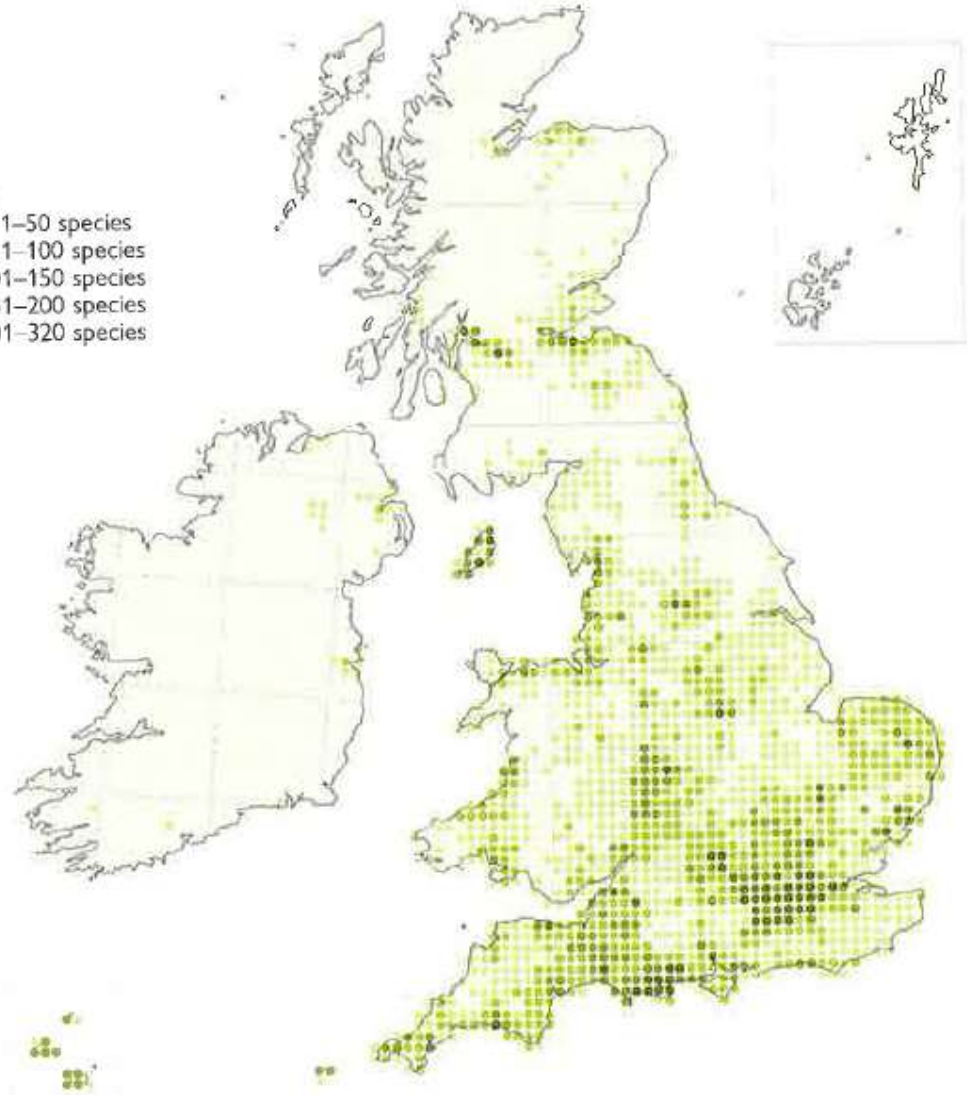
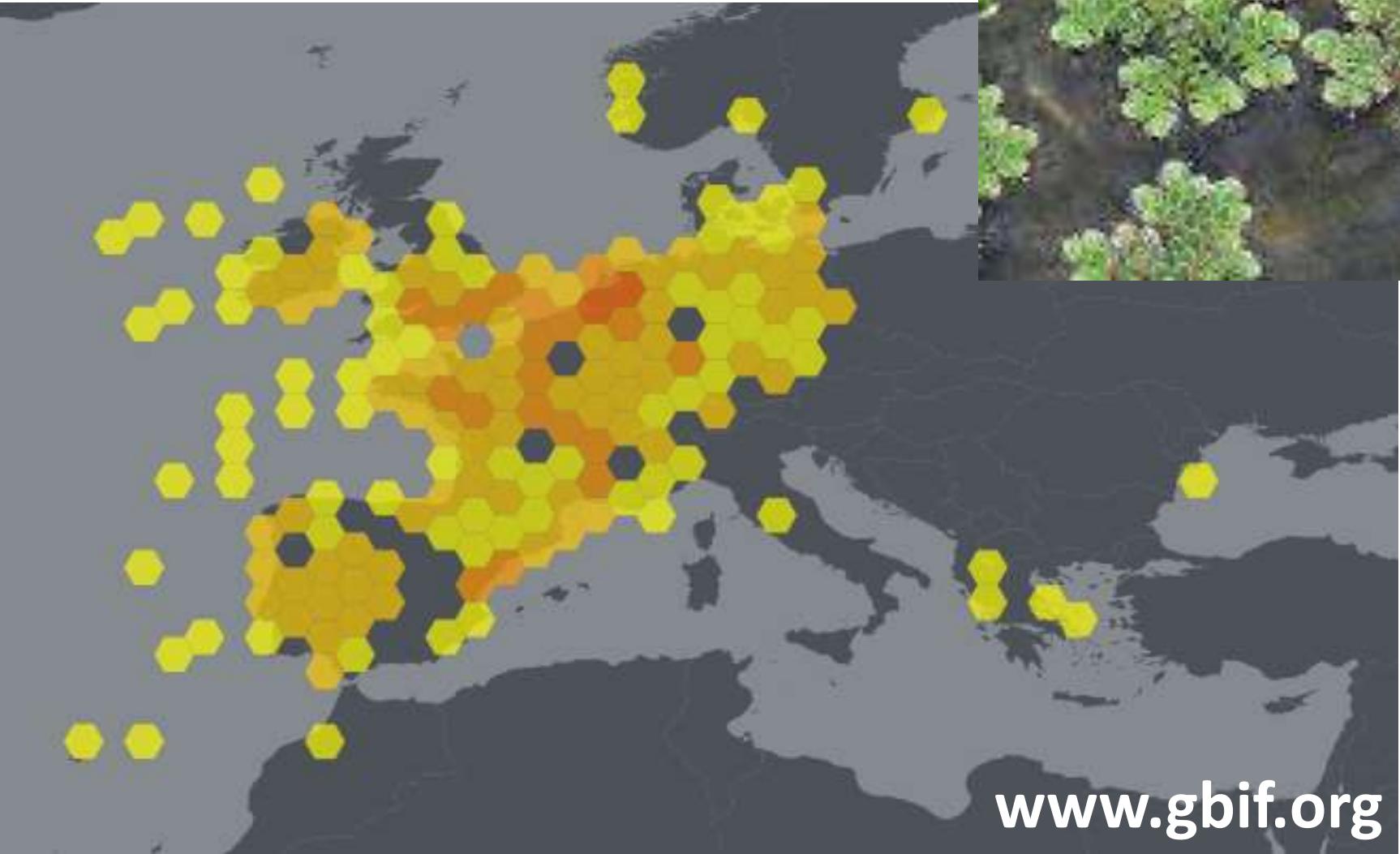


Figure 6.4 The number of neophytes recorded from 1970 onwards in each 10-km square.

Preston et al. (2002)

Plant science and biological records

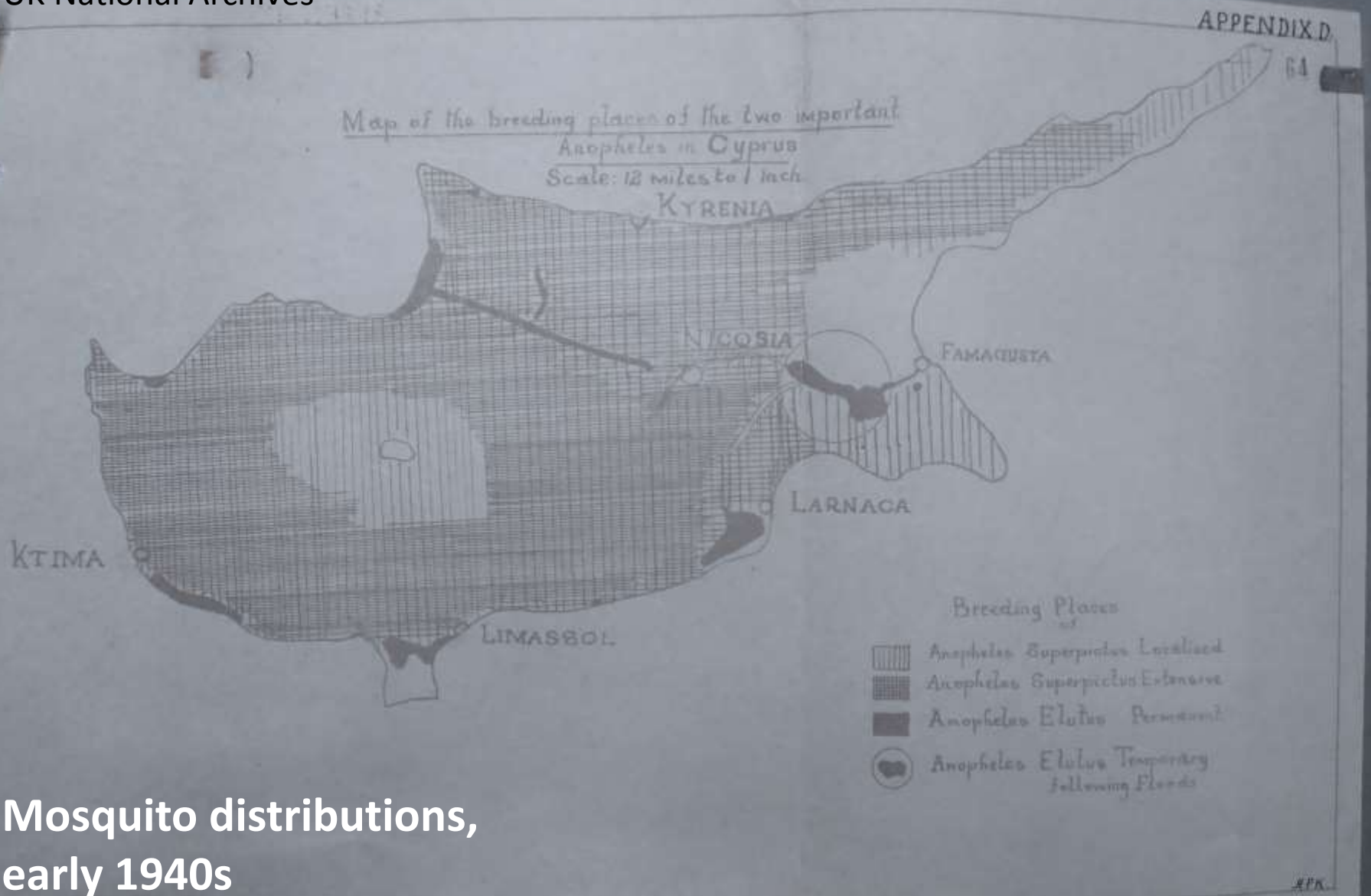
Azolla filiculoides (Water Fern)



www.gbif.org

Planning new plant communities...

© UK National Archives



1990

Tractor sowing *Acacia saligna*

© UK National Archives

“Xylotimbo Forest”
1920s



Acacia saligna invading wetlands



2015

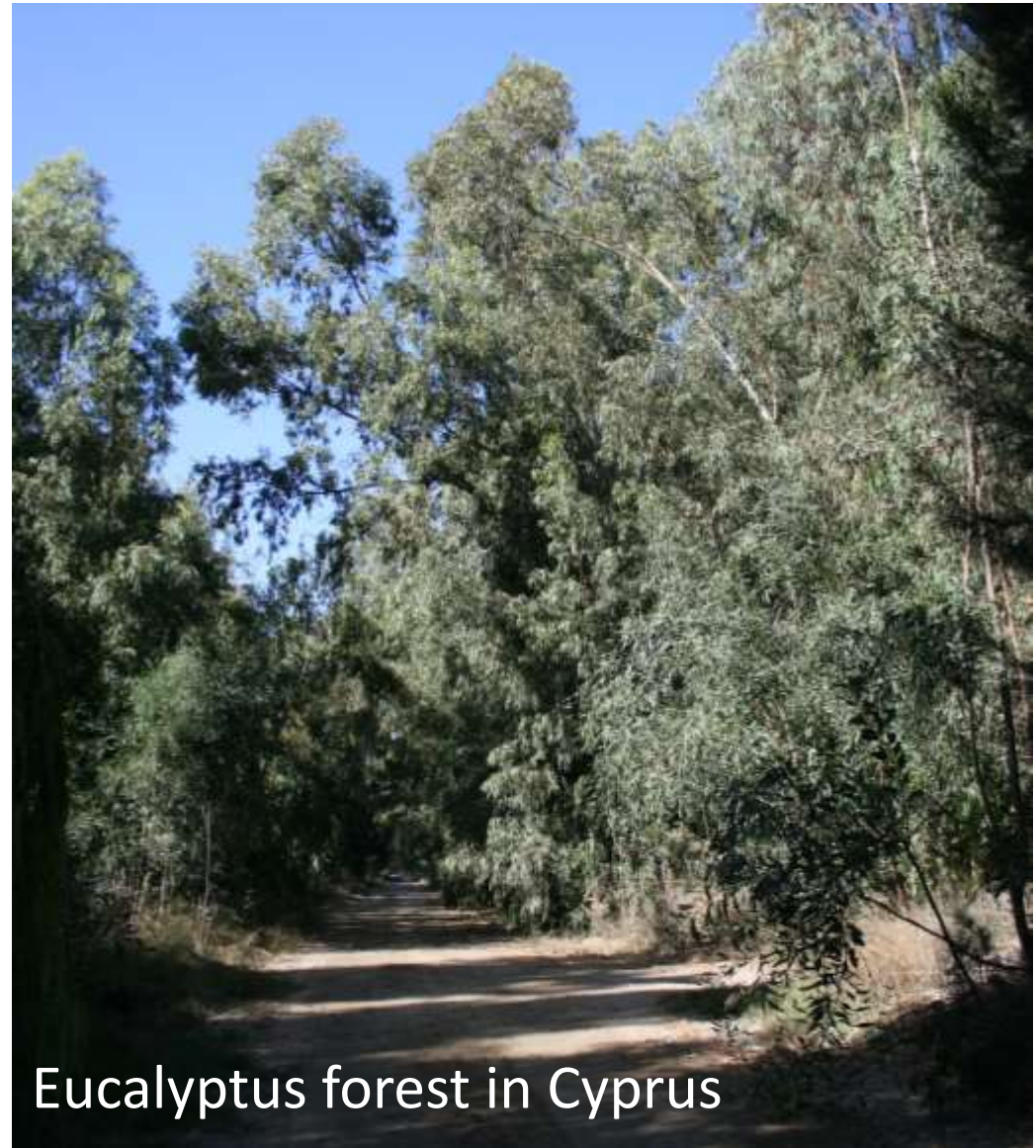
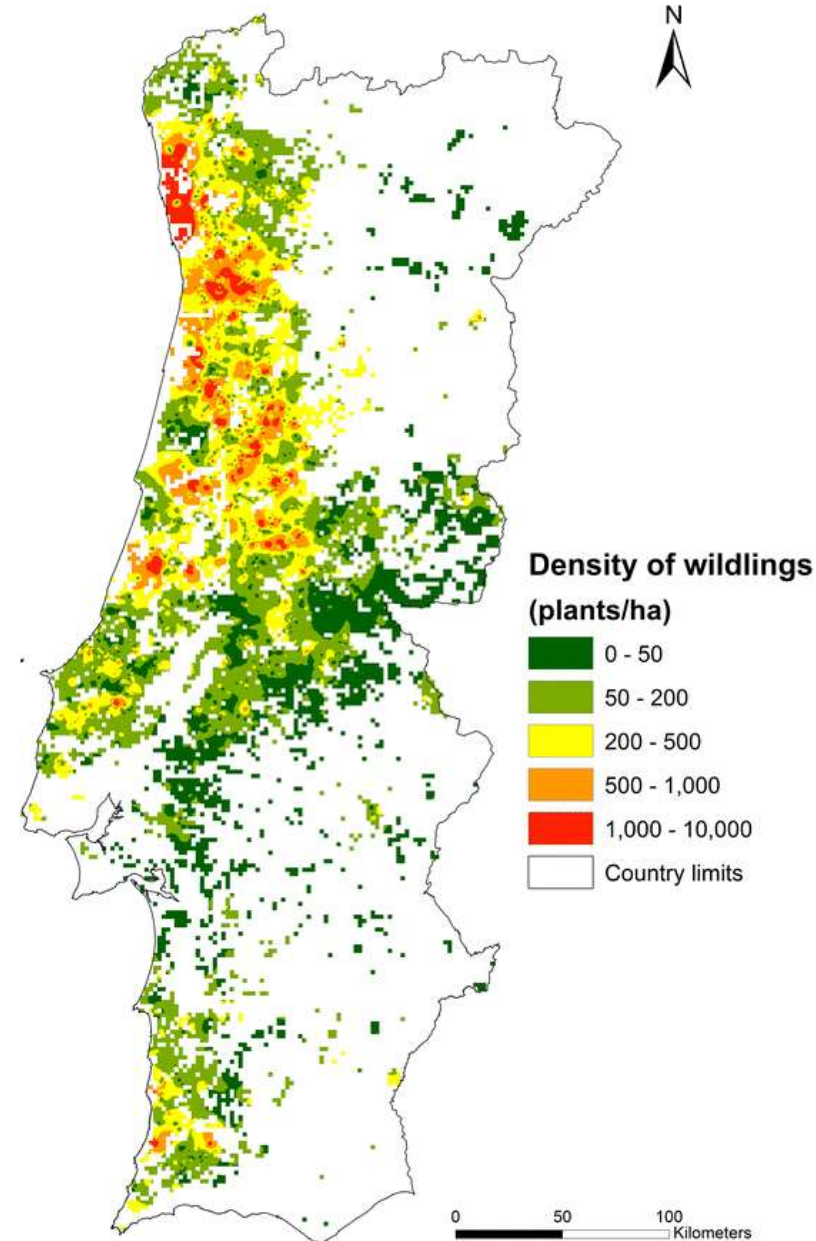
Future invasives?

Early 1940s



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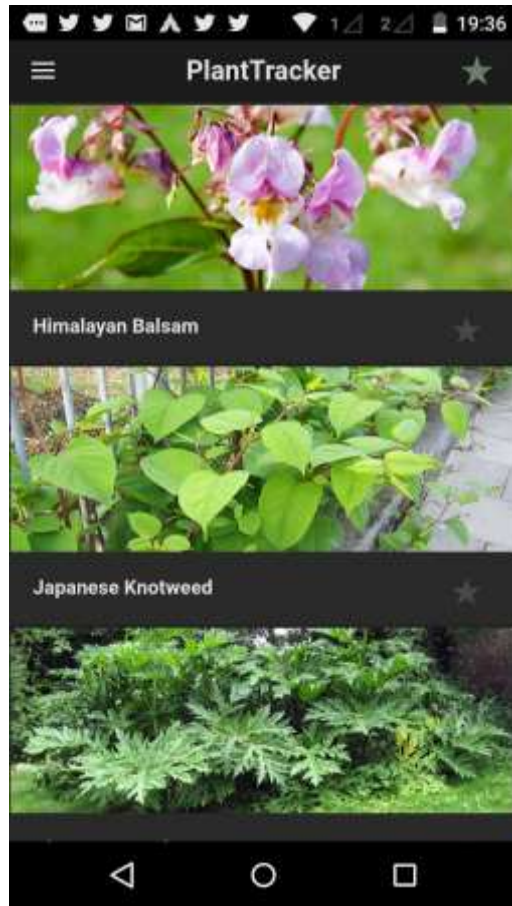
Eucalypts in Portugal



Eucalyptus forest in Cyprus

Catry *et al.* (2015)

Early warnings

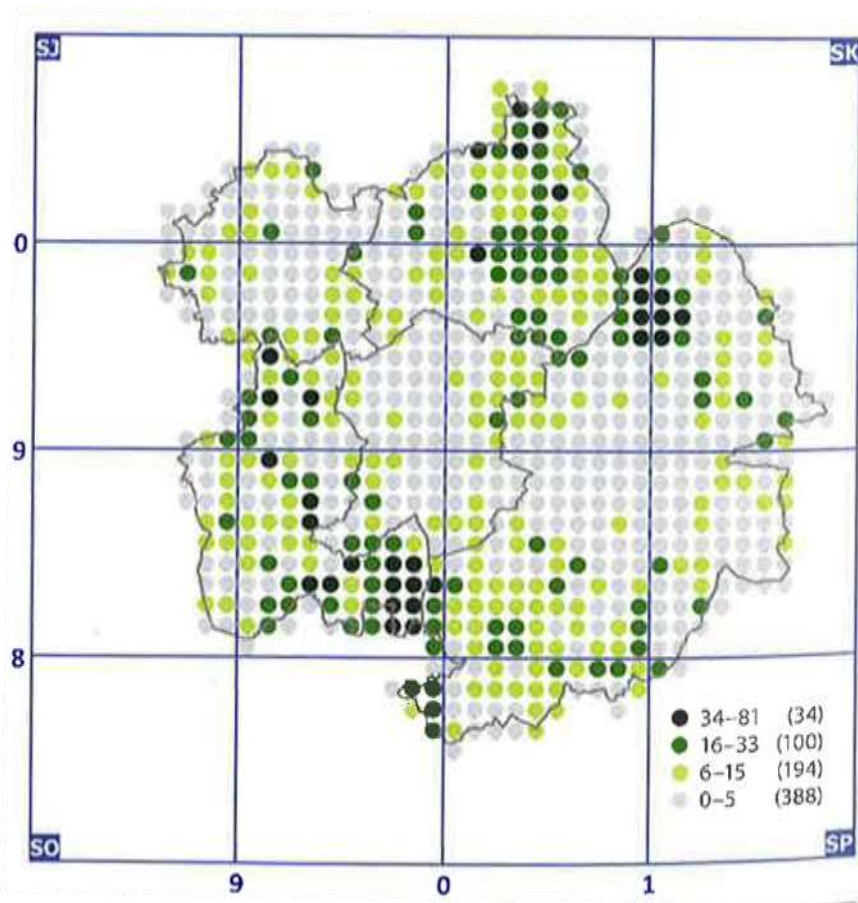


- Further key role of volunteer community
- New technology
- Recording apps to alert us of new invasions & record spread

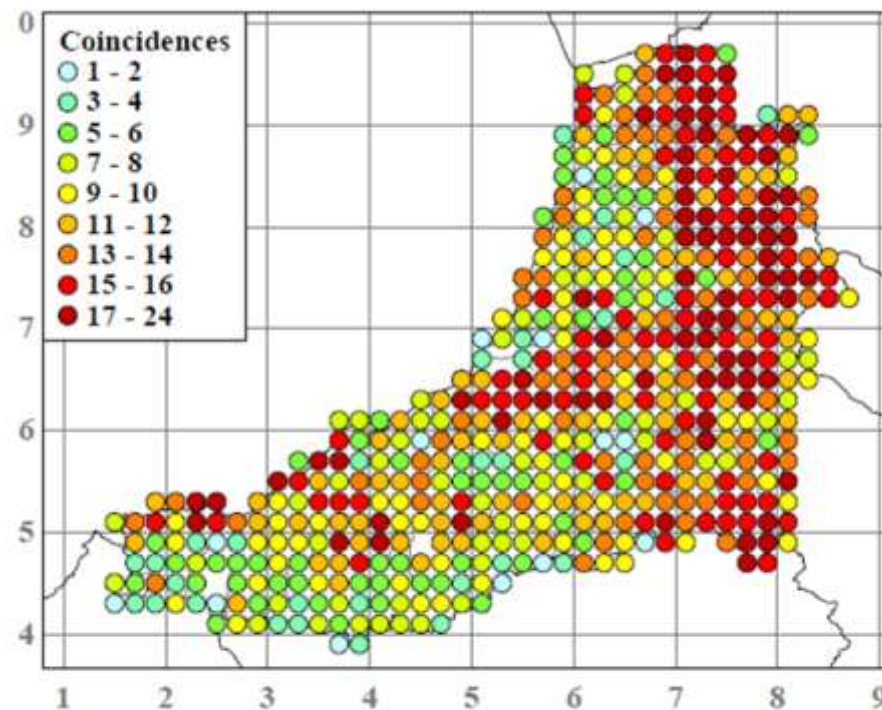
<http://www.plantracker.org.uk>

<http://www.brc.ac.uk/apps>

Future work : Grid-based mapping



Trueman et al. (2013)



Map 11: Coincidence map of natives of heathland (BH10)

Chater (2010)

- Occurrences in 1 km UTM squares
- Public datasets, e.g. on GBIF

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