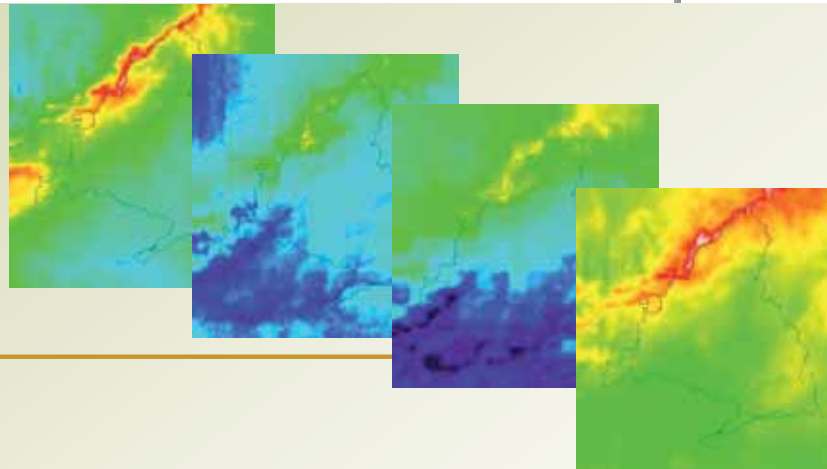
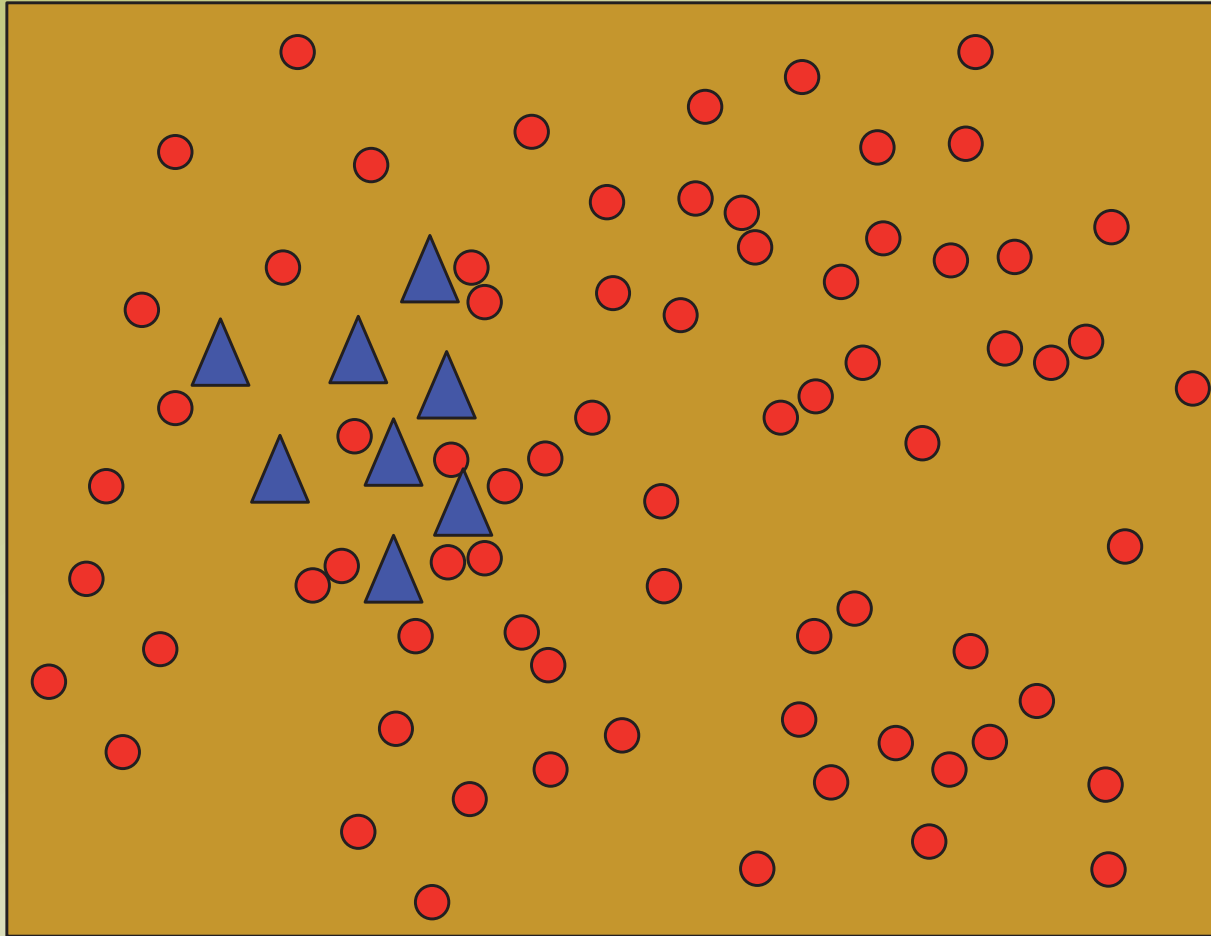


Incertidumbre en las predicciones sobre la distribución de las especies ante el cambio climático

$$\vec{Y} = \begin{pmatrix} y_1 \\ y_2 \\ \vdots \\ y_n \end{pmatrix}, \quad \mathbf{X} = \begin{pmatrix} 1 & x_{11} & x_{12} & \dots & x_{1k} \\ 1 & x_{21} & x_{22} & \dots & x_{2k} \\ \vdots & \vdots & \vdots & \vdots & \vdots \\ 1 & x_{n1} & x_{n2} & \dots & x_{nk} \end{pmatrix}, \quad \vec{\alpha} = \begin{pmatrix} \alpha_0 \\ \alpha_1 \\ \vdots \\ \alpha_k \end{pmatrix}, \quad \vec{\varepsilon} = \begin{pmatrix} \varepsilon_1 \\ \varepsilon_2 \\ \vdots \\ \varepsilon_n \end{pmatrix}$$

Presencia
Ausencia





Comparative interpretation of count, presence–absence and point methods for species distribution models

Geert Aarts^{1,2*}, John Fieberg³ and Jason Matthiopoulos^{4,5}

¹IMARES Wageningen UR, Institute for Marine Resources and Ecosystem Studies, PO Box 167, 1790 AD Den Burg, the Netherlands; ²Royal Netherland's Institute for Sea Research (NIOZ), PO Box 59, 1790 AB Den Burg, the Netherlands; ³Biometrics Unit, Minnesota Department of Natural Resources MN DNR, 5463-C W Broadway, Forest Lake, MN 55025, USA; ⁴Scottish Oceans Institute, School of Biology, University of St. Andrews, St. Andrews, Fife KY16 9LB, UK; and ⁵Centre for Research into Environmental and Ecological Modelling, University of St Andrews, The Observatory, Buchanan Gardens, St Andrews, Fife, KY16 9LZ UK

Biol Invasions (2011) 13:2785–2797
DOI 10.1007/s10530-011-9963-4

ORIGINAL PAPER

Use of niche models in invasive species risk assessments

A. Jiménez-Valverde · A. T. Peterson ·
J. Soberón · J. M. Overton · P. Aragón ·
J. M. Lobo



Ecography 33: 103–114, 2010

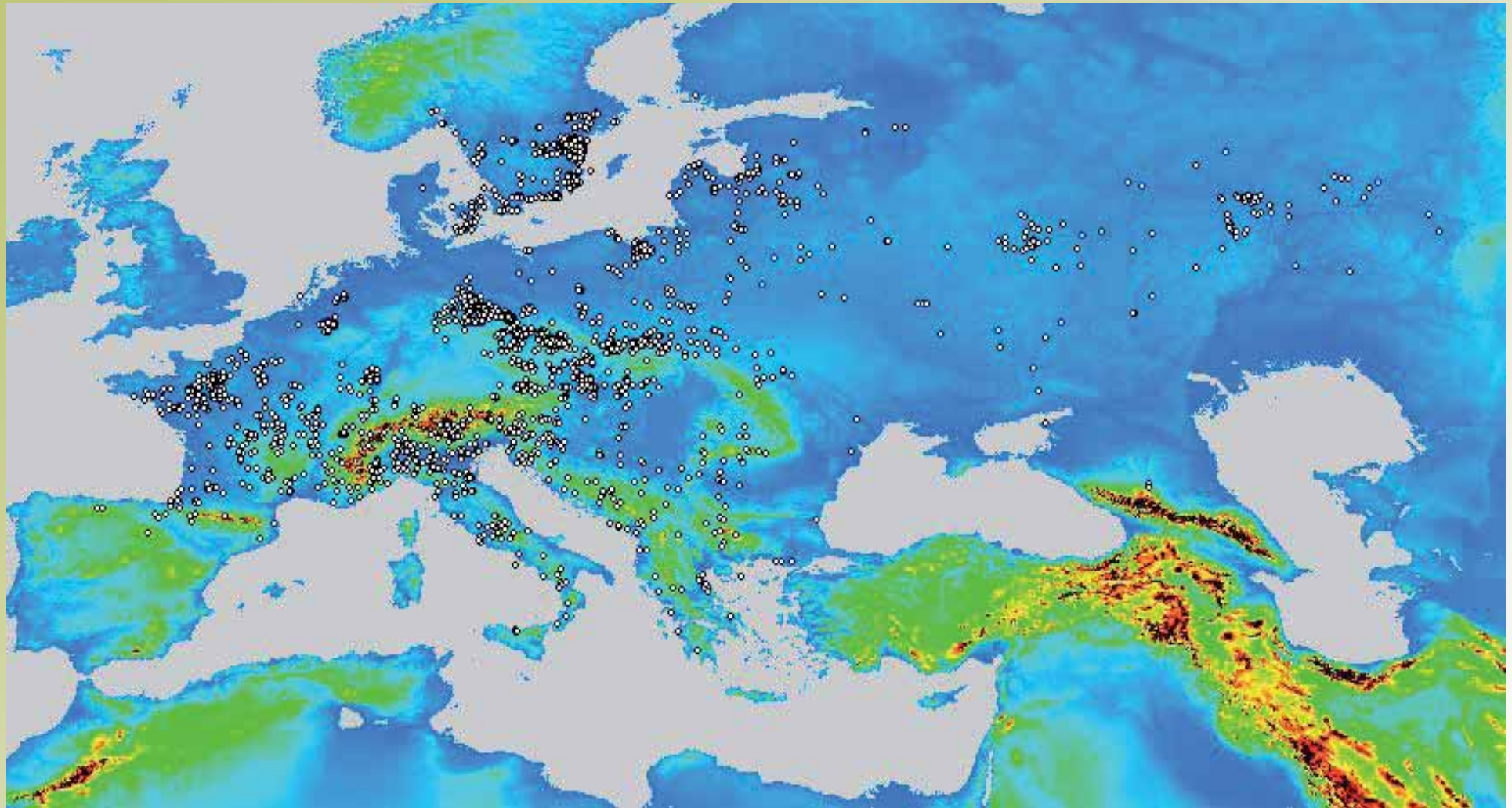
doi: 10.1111/j.1600-0587.2009.06039.x

© 2010 The Authors. Journal compilation © 2010 Ecography

Subject Editors: Núria Roura-Pascual and Nathan K. Sanders. Accepted 30 November 2009

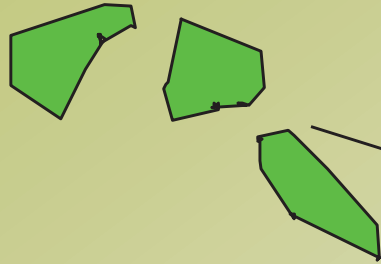
The uncertain nature of absences and their importance in species distribution modelling

Jorge M. Lobo, Alberto Jiménez-Valverde and Joaquín Hortal



Adaptaciones eco-
fisiológicas

Localidades con
presencias bien
conocidas

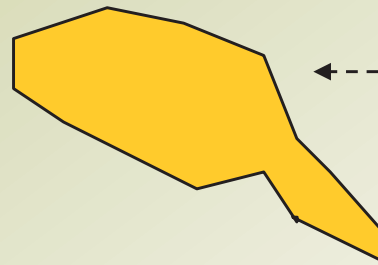


Nicho Fundamental
(NF)

$\gg NF \geq NFD$

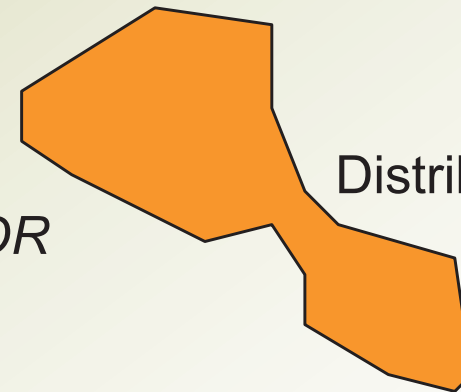
Nicho Fundamental
Derivado (NFD)

Distribución
Realizada (DR)



$DP \geq DR$

Distribución Potencial
(DP)



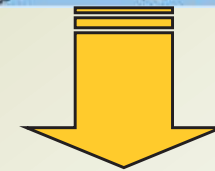
Distribución Potencial



Equilibrio con las condiciones climáticas

1

Distribución Realizada



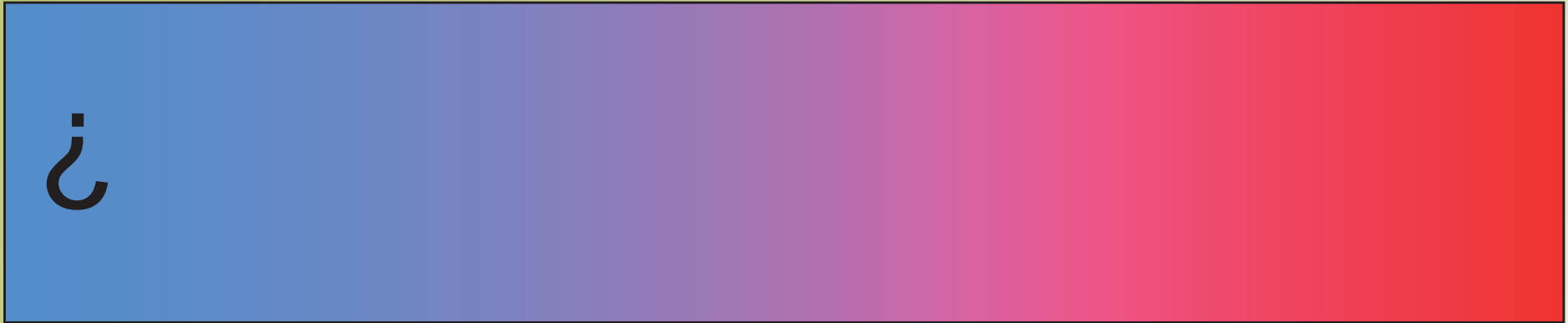
Actuación de factores históricos y/o limitantes de dispersión

1/0

POTENCIAL



REALIZADA

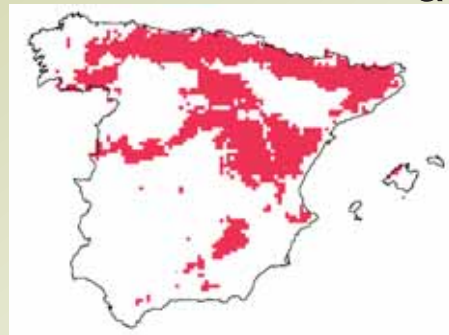


Experimentos de traslocación y datos fisiológicos

Métodos simples con datos de presencias

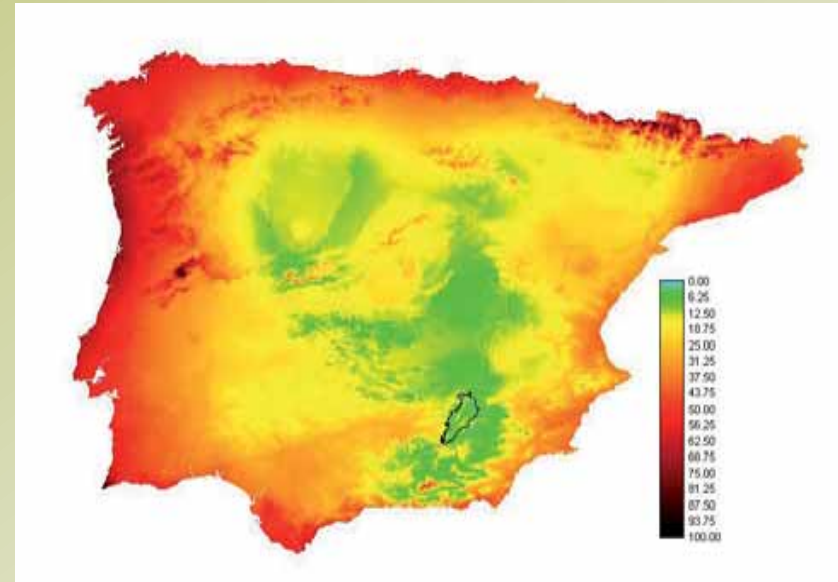
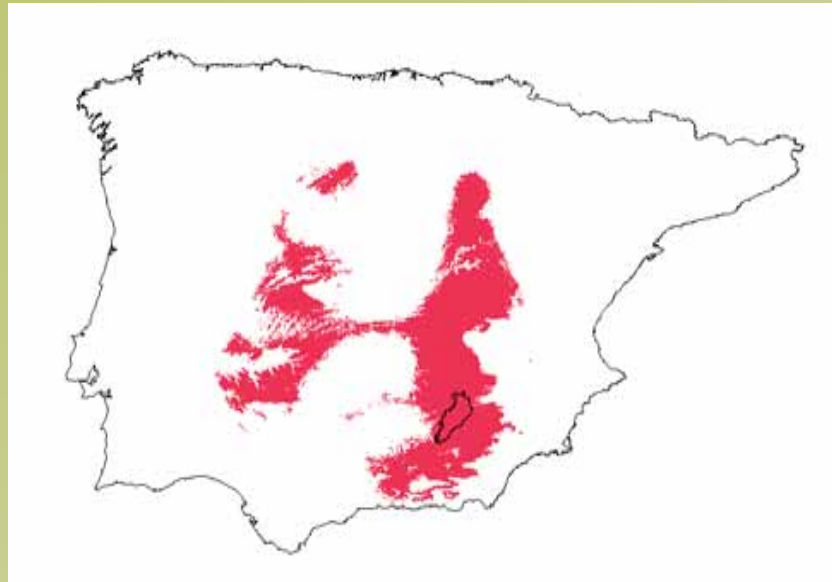
Métodos complejos con datos de presencias o métodos de presencia-ausencia usando pseudo-ausencias ambientales

Métodos de presencia-ausencia complejos usando ausencias

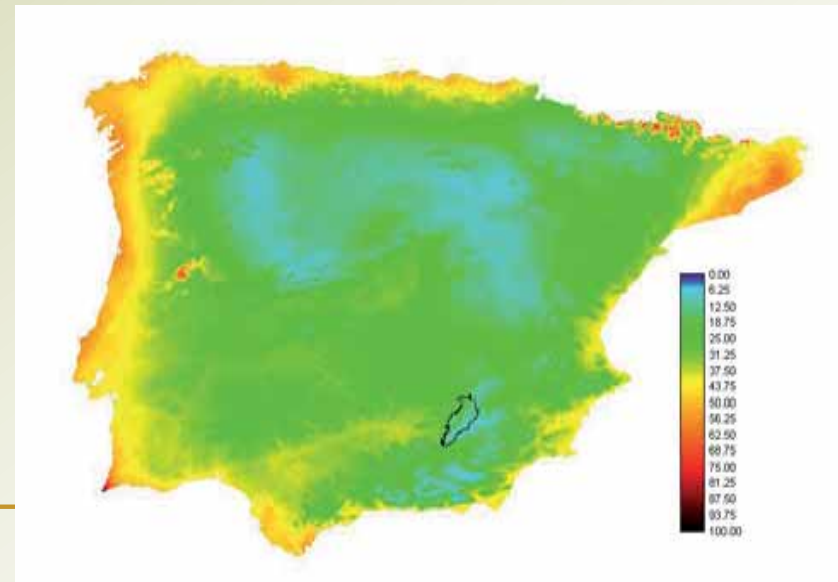


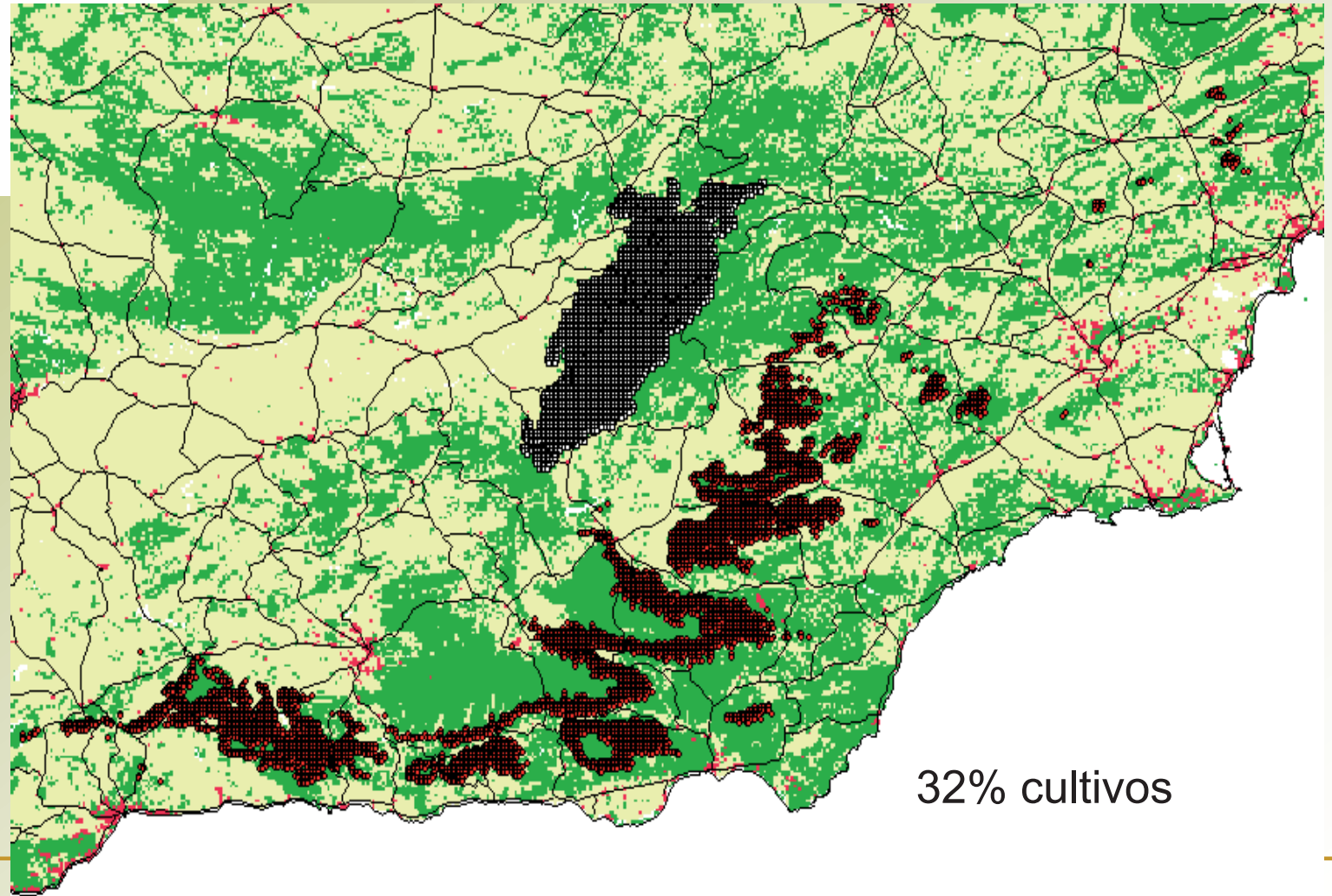
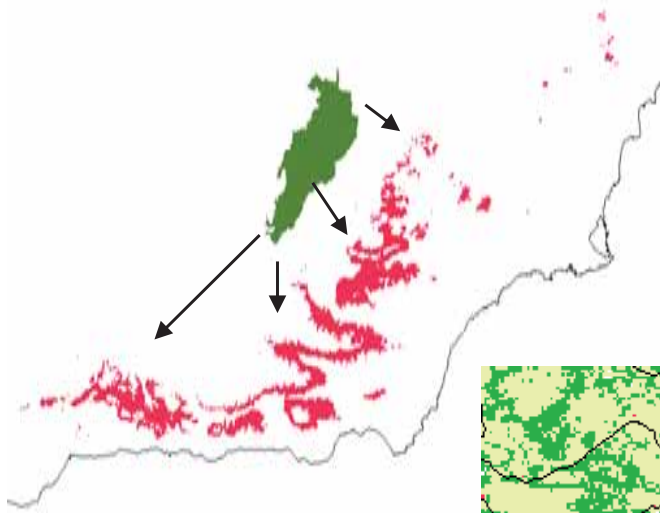
PN Sierras de Cazorla, Segura y Las Villas

Presente



Futuro





32% cultivos