



**HAL**  
open science

## A pollen-based land-cover atlas covering the last 200 years of Bassies valley vegetation changes: results from a new spatialization method

Clara Plancher, Cédric Gaucherel, Didier Galop, Thomas Houet, L. Marquer, S. Sugita, Florence Mazier

### ► To cite this version:

Clara Plancher, Cédric Gaucherel, Didier Galop, Thomas Houet, L. Marquer, et al.. A pollen-based land-cover atlas covering the last 200 years of Bassies valley vegetation changes: results from a new spatialization method. International Symposium of Labex DRIIHM 2021, Sep 2021, Toulouse, France. , 2021, 10.34972/driihm-bcbd28 . hal-03346749

**HAL Id: hal-03346749**

**<https://hal.science/hal-03346749>**

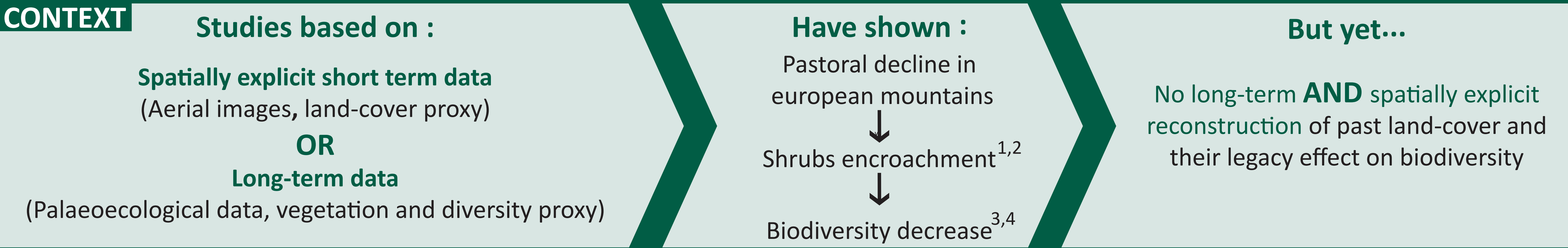
Submitted on 16 Sep 2021

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

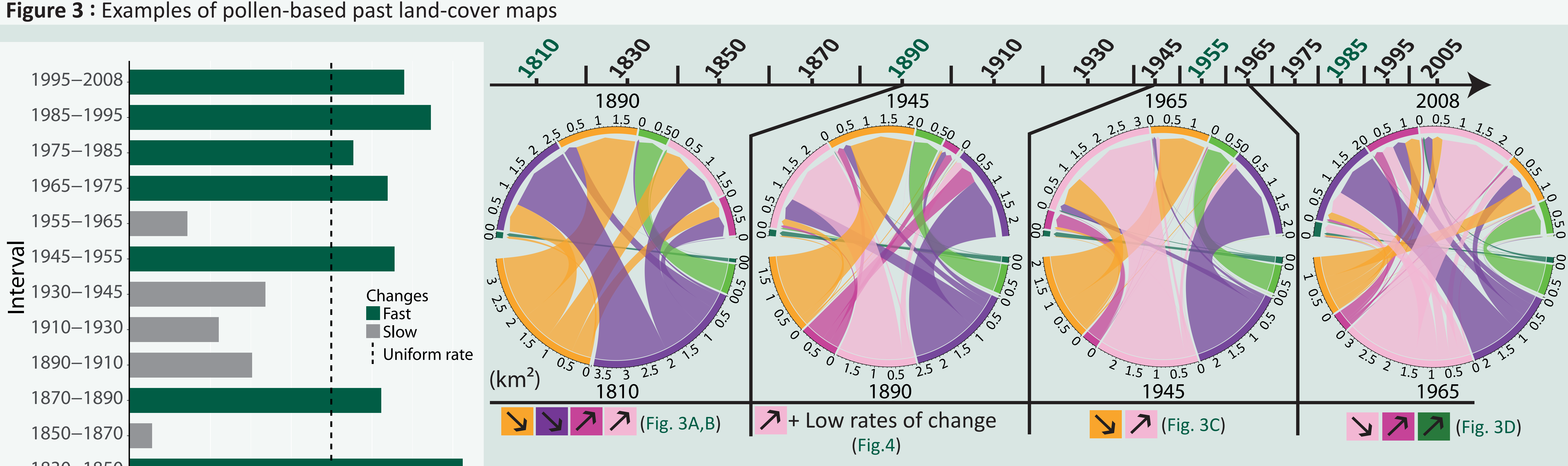
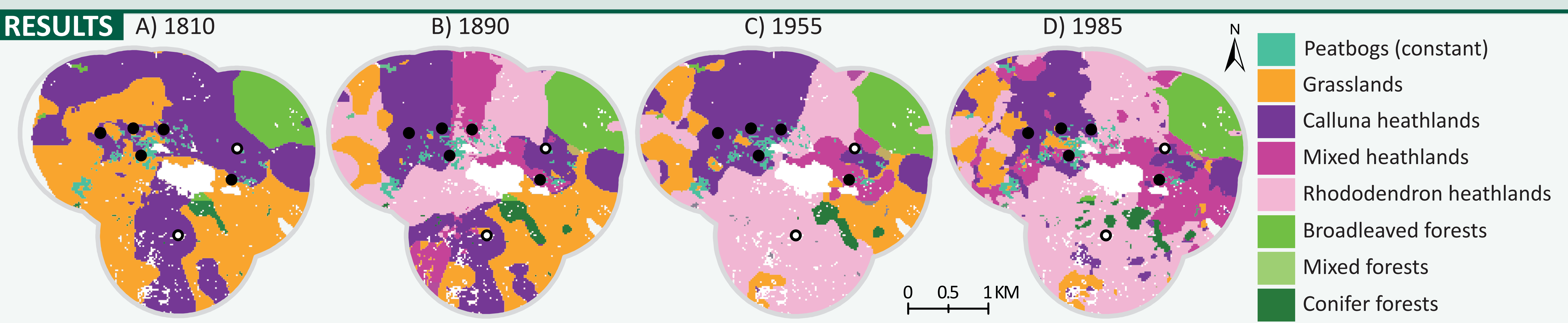
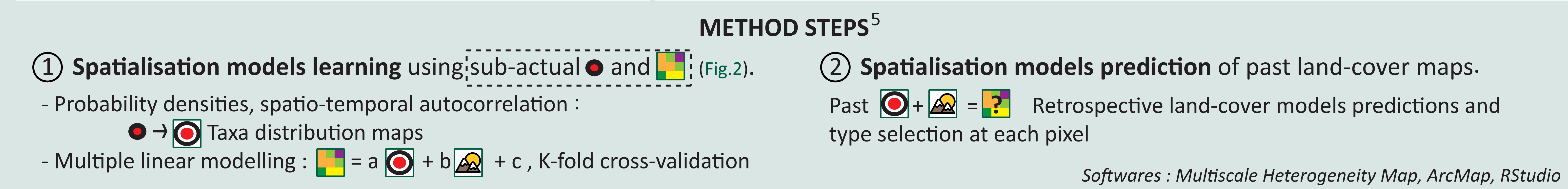
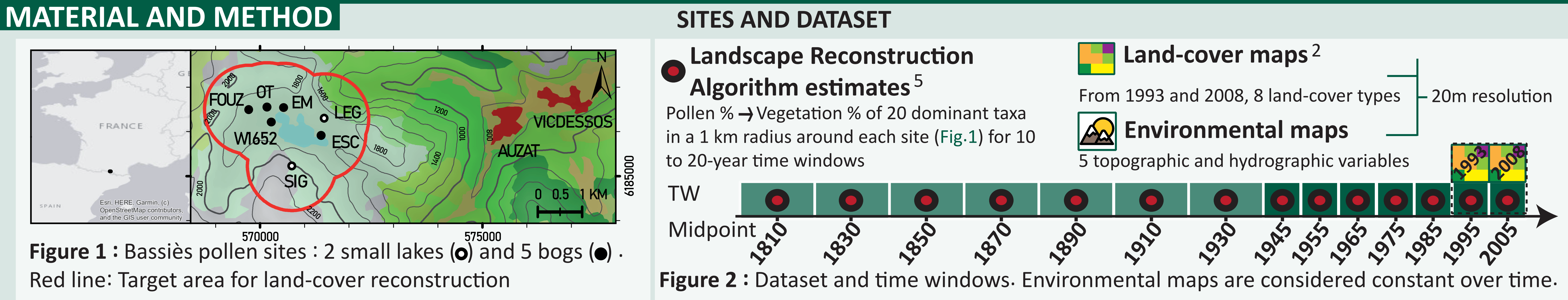
# A pollen-based land-cover atlas covering the last 200 years of Bassies valley vegetation changes : results from a new spatialisation method

Plancher C., Gaucherel C., Galop D., Houet T., Marquer L., Sugita S., Mazier F.



**OBJECTIVES**

- Atlas of past land-cover over 200 years
- New perspectives to study long-term relationship between land-use / land-cover and biodiversity



**CONCLUSION AND PERSPECTIVES**

- Grasslands declined by more than 50% over 200 years, mainly replaced by heathlands.
- Phases of rates of change : (1) 19th century slowdown, (2) stabilisation until the 1940s, acceleration in (3) the 1950s and (4) from the 1970s.

Past land-uses ↔ Land-cover configuration/composition ↔ Current biodiversity

<sup>1</sup> MacDonald et al., 2000. Journal of Environmental Management 59, 47–69 ; <sup>2</sup>Houet et al., 2012. Sud-Ouest Européen 33, 41–56 ; <sup>3</sup>Galop et al., 2011. PAGES News 19, 53–55 ; <sup>4</sup>Herrault et al., 2015. Landscape Ecology 31, 877–893 ; <sup>5</sup>Plancher et al., in prep.

