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

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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>

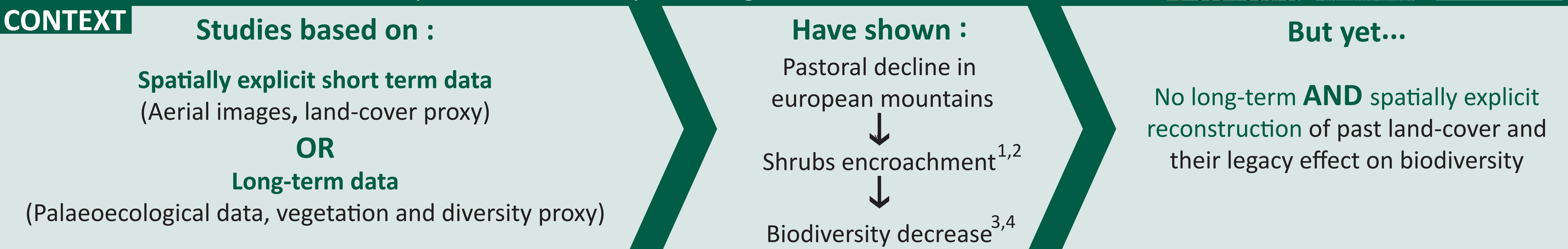
Submitted on 16 Sep 2021

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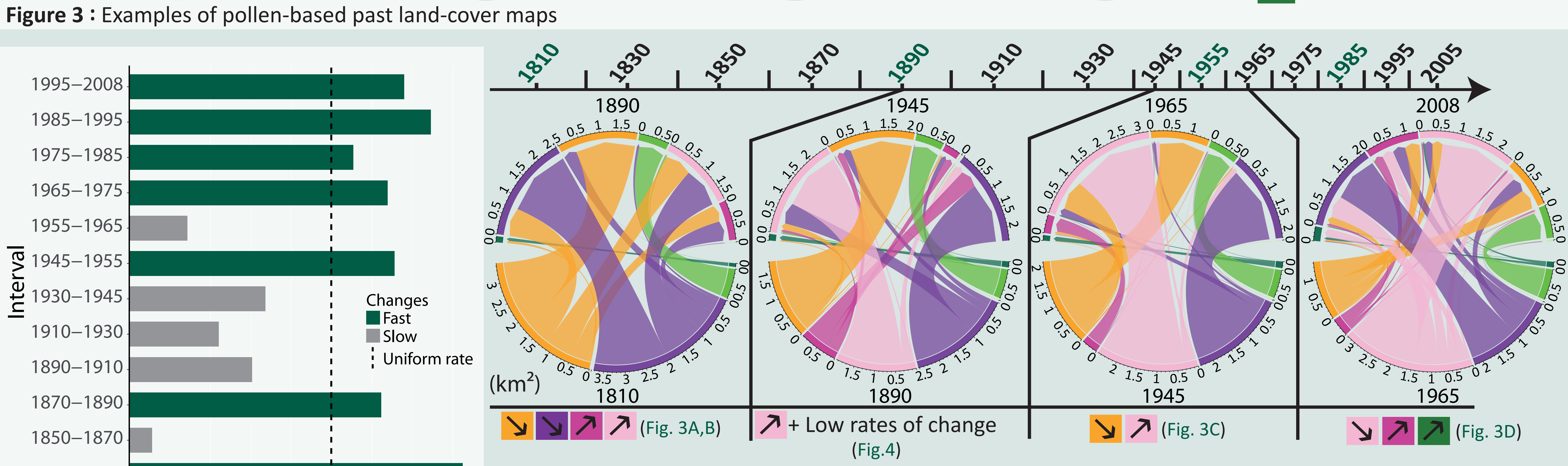
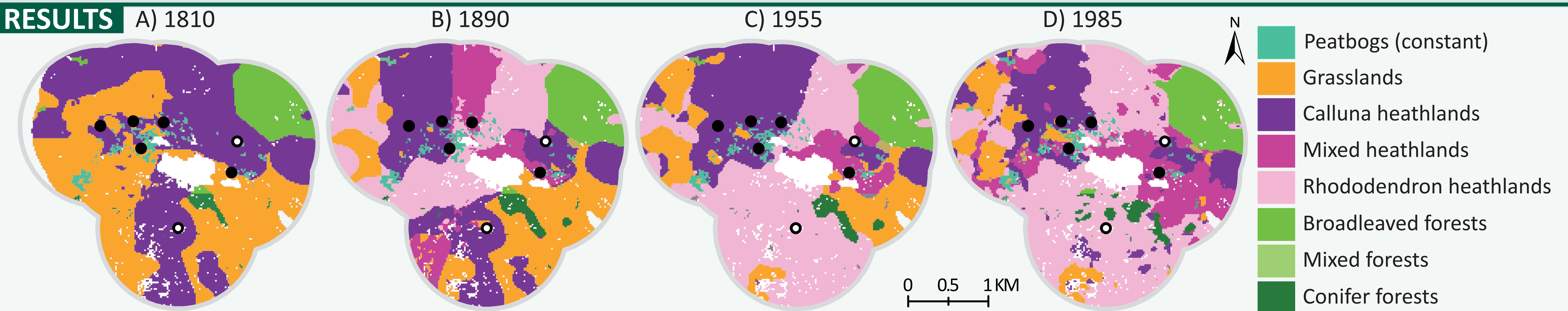
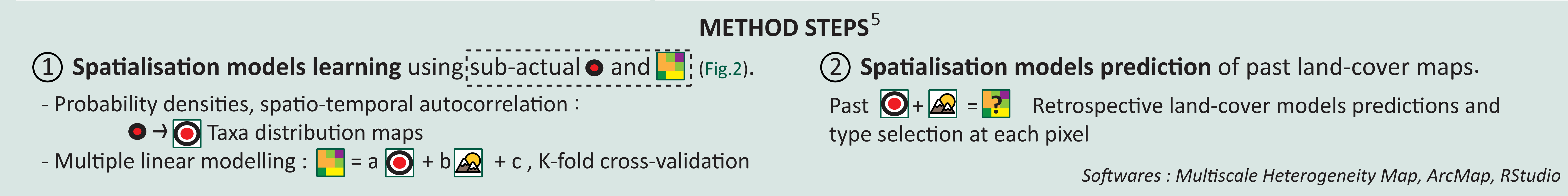
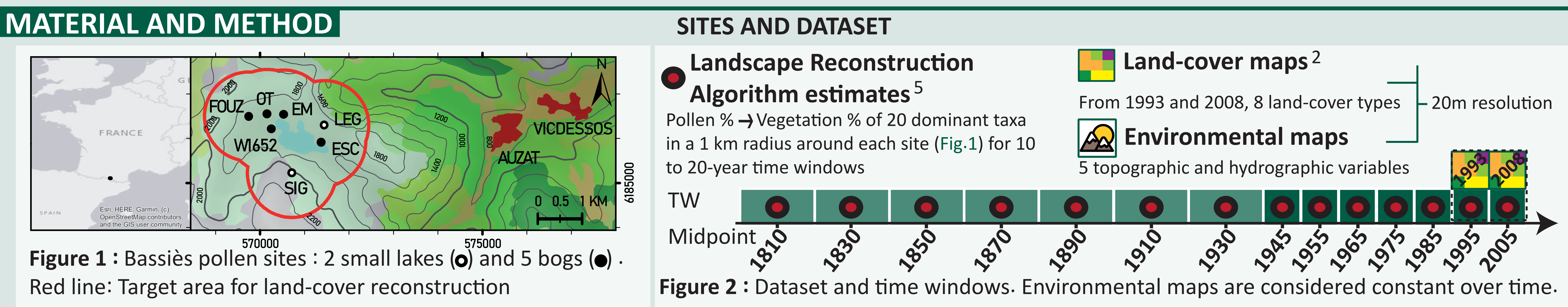
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Plancher C., Gaucherel C., Galop D., Houet T., Marquer L., Sugita S., Mazier F.



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

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

