

Germany

Helmholtz Centre for Environmental Research – UFZ
Halle (Saale)

Department of Community Ecology



Josef Settele
&

Elisabeth Kühn, Alexander Harpke, Martin Musche,
Oliver Schweiger, Martin Wiemers etc.

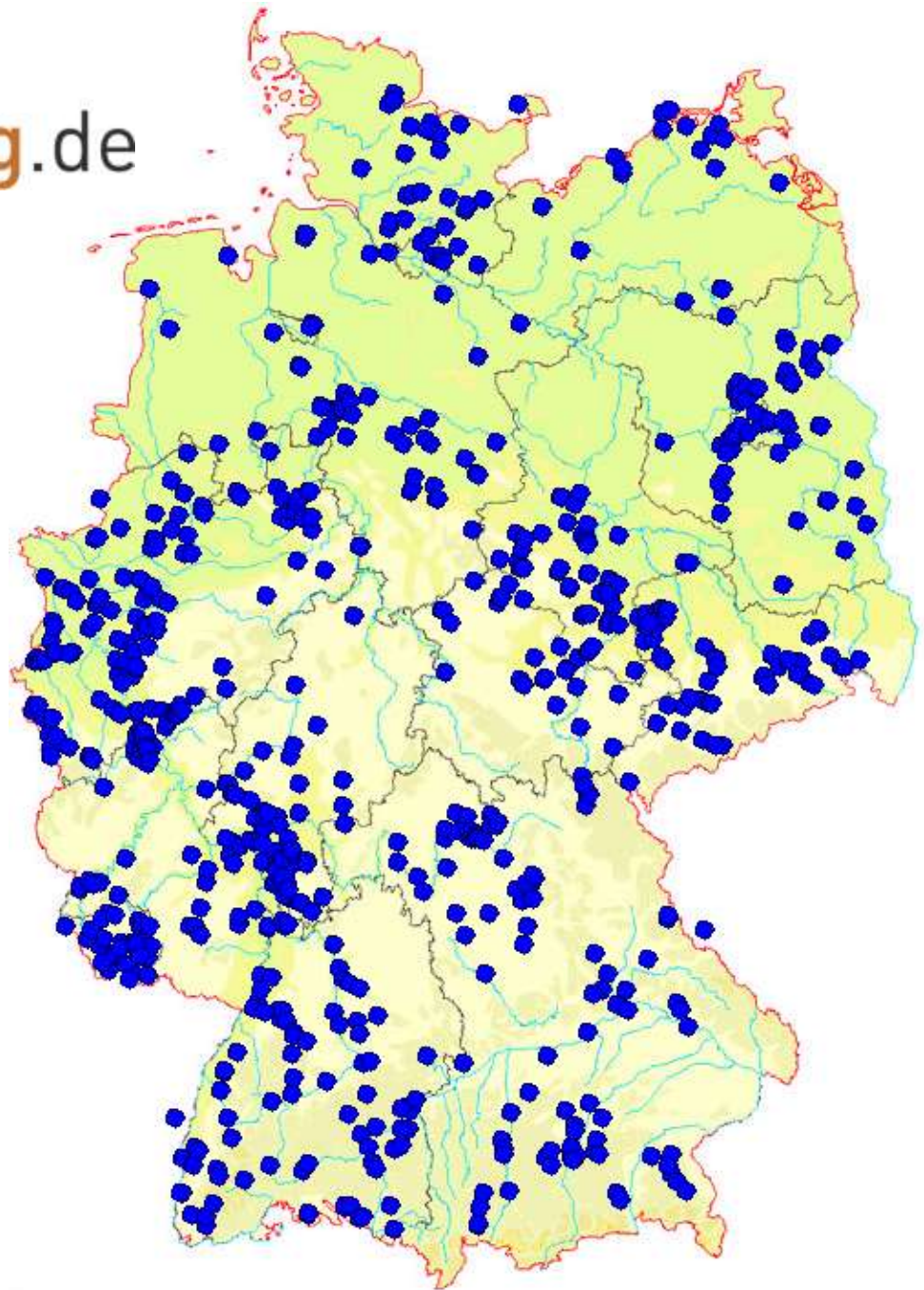


Distribution of transects

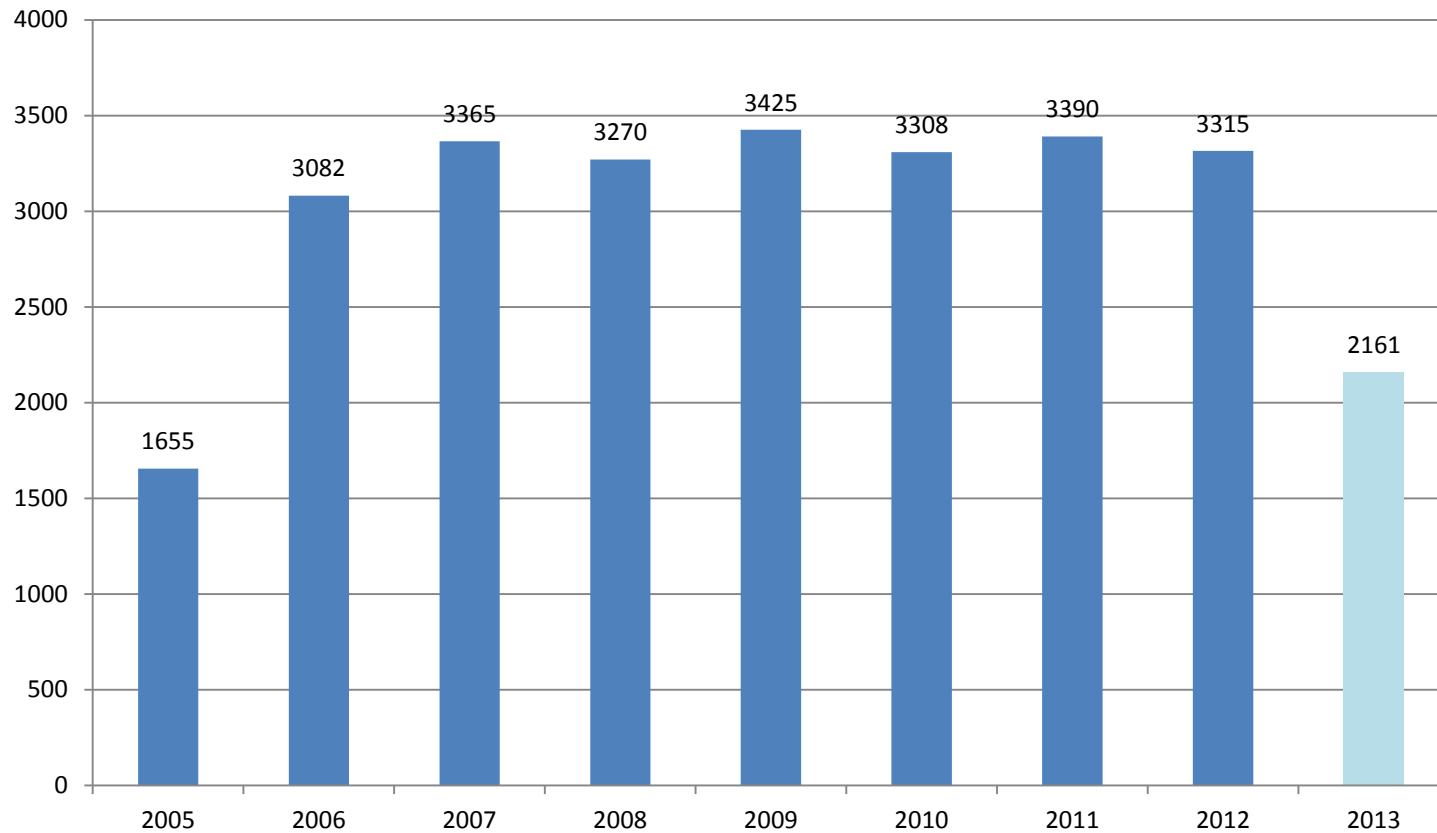
(September 2014)



Foto: Steffen Zacharias



Number of transect sections (2013 still incomplete)



Distribution Atlas of Butterflies in Europe

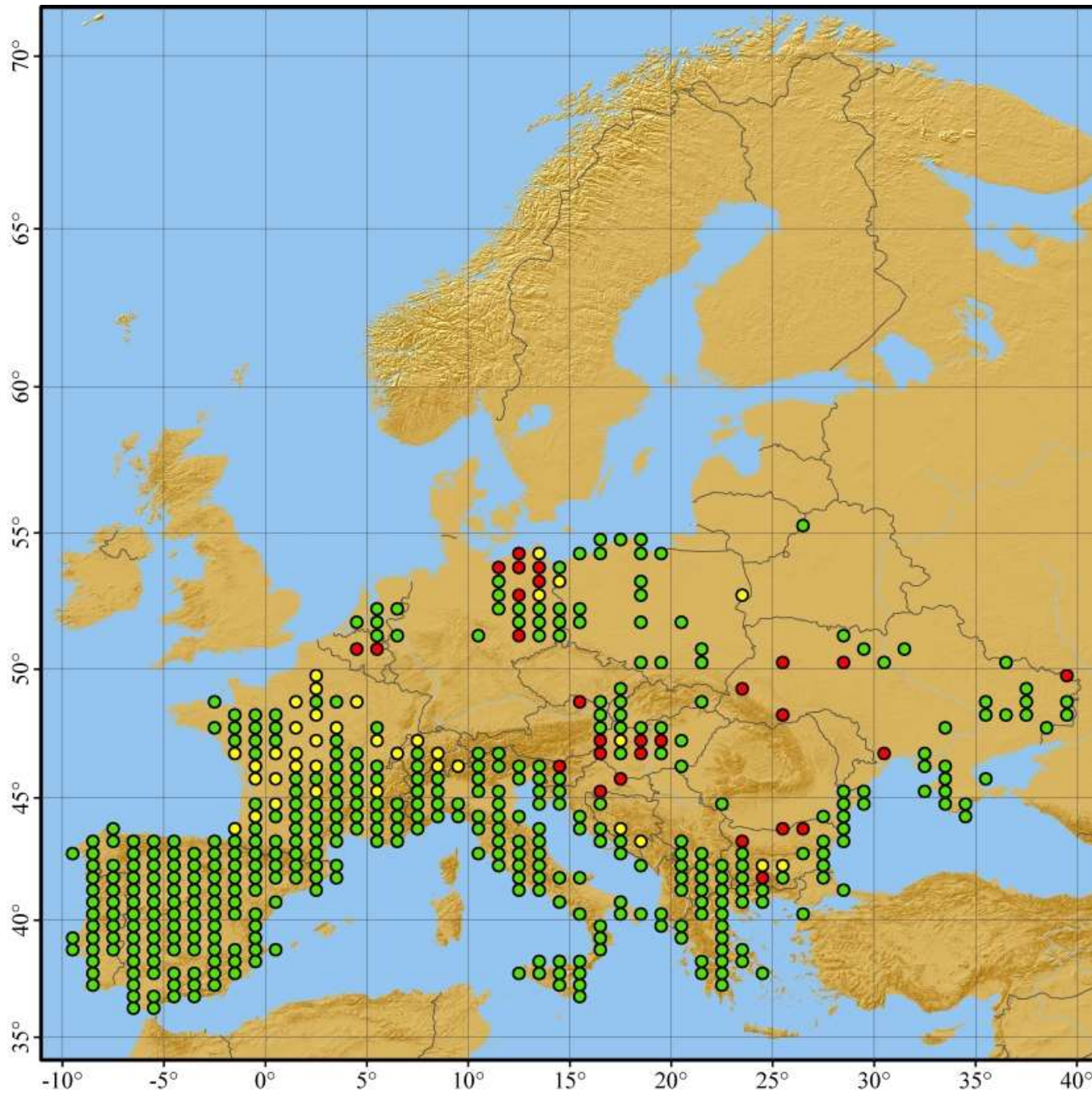
Otakar Kudrna
Alexander Harpke Kristian Lux
Josef Pennerstorfer Oliver Schweiger
Josef Settele Martin Wiemers



Gesellschaft für Schmetterlingsschutz e.V.



*Hipparchia
stabilinus*



CLIMBER: Climatic niche characteristics of the butterflies in Europe

Oliver Schweiger¹, Alexander Harpke¹, Martin Wiemers¹, Josef Settele^{1,2}

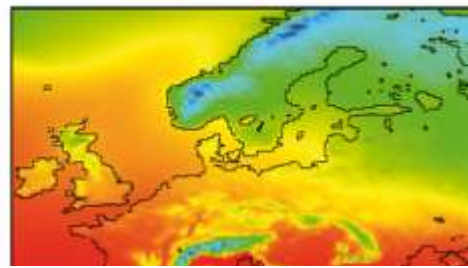
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STI examples in butterflies



Boreo-alpine species:

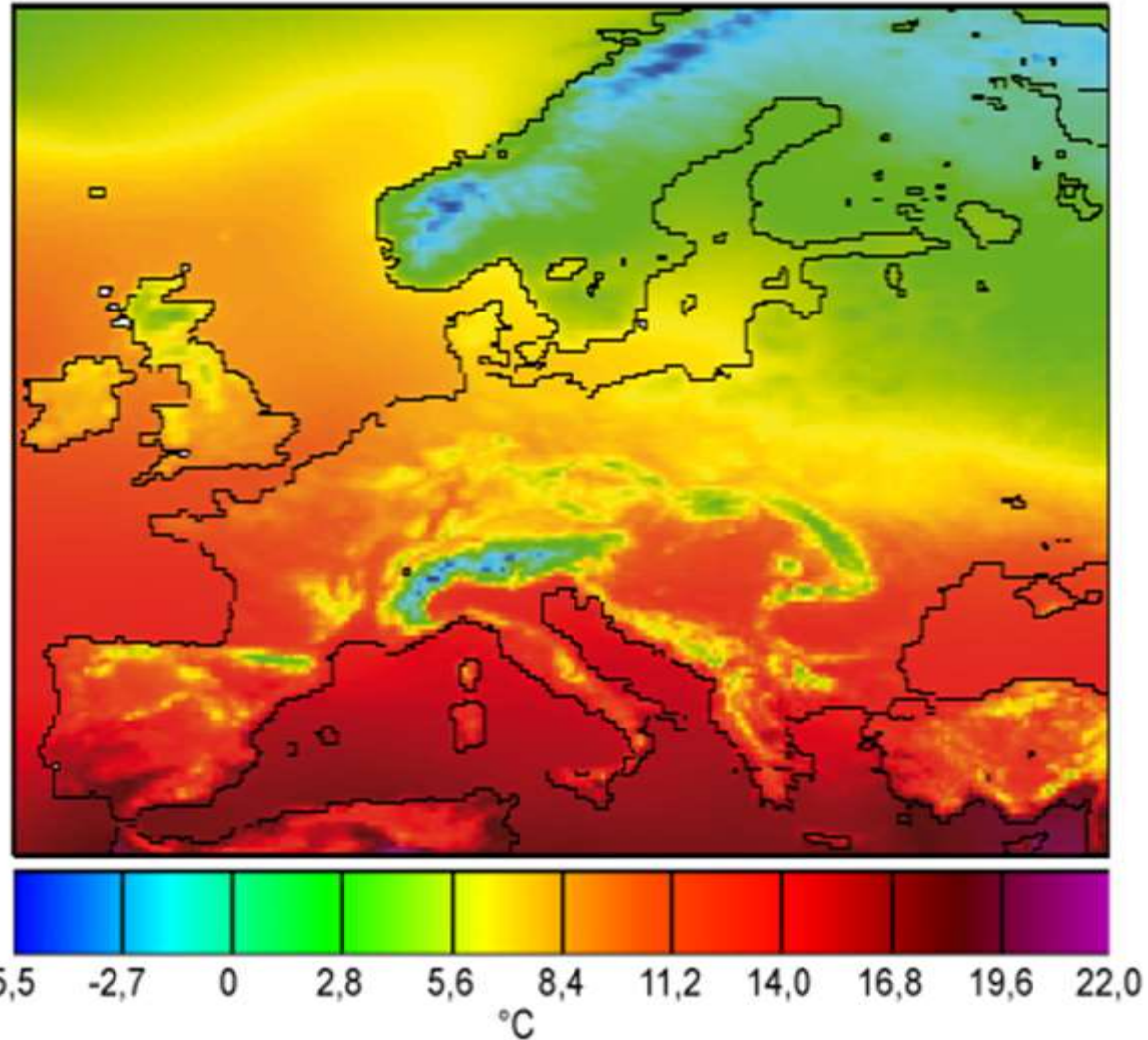
Colias palaeno: 3.62



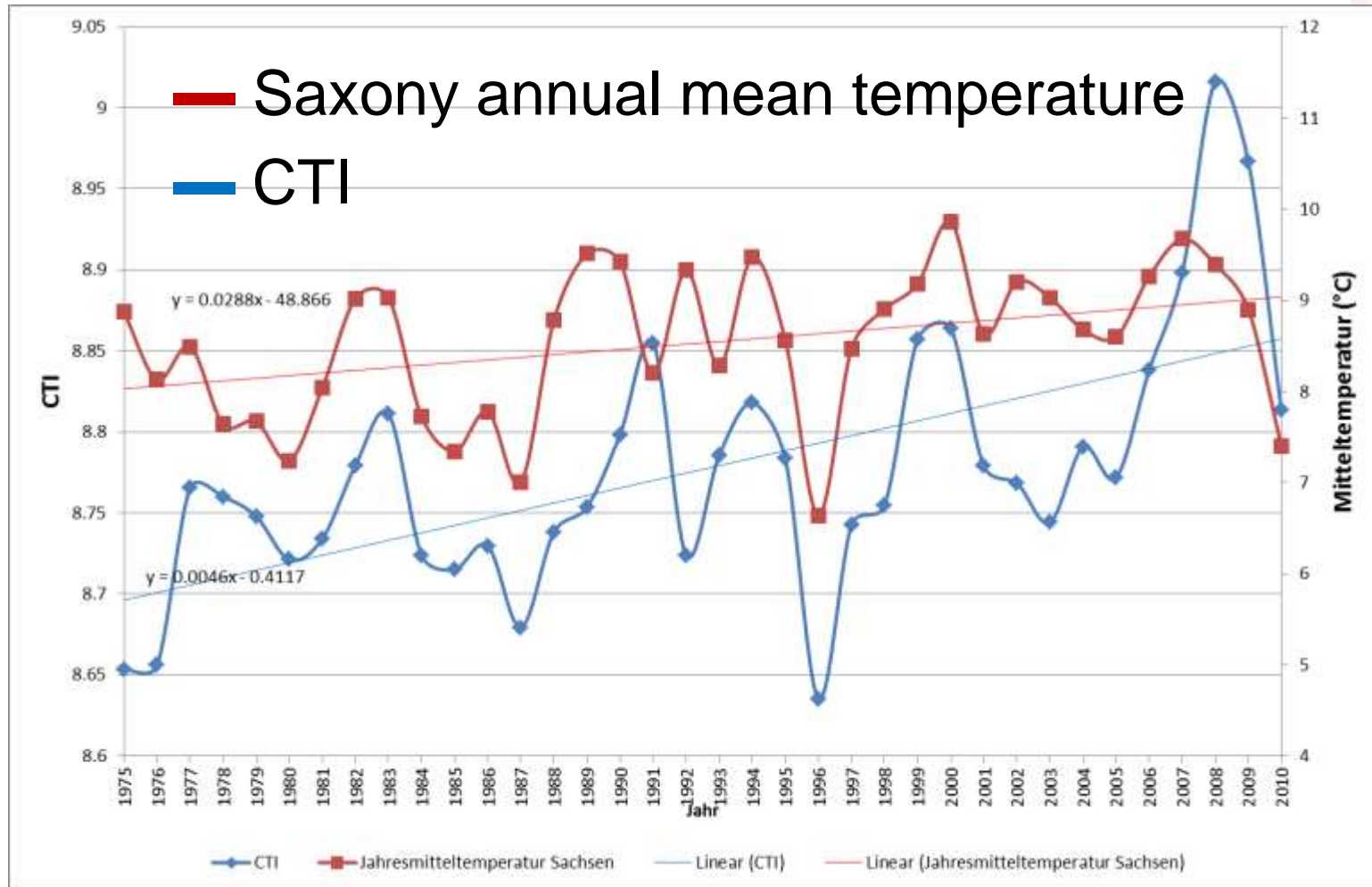
Reference period:
1961-1990

Leipzig: 8.8

Saxony: 8.1

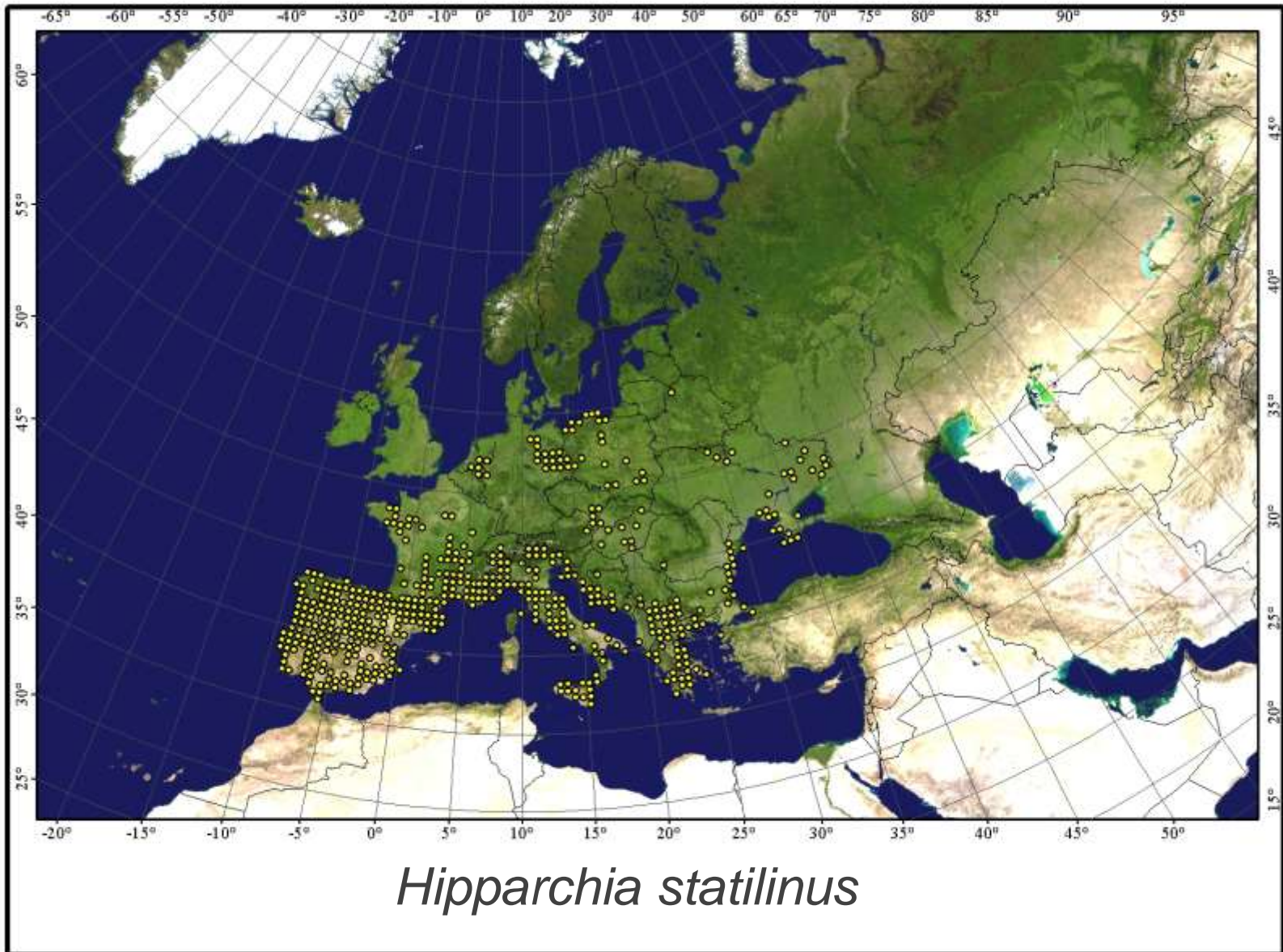


CTI correlation with climatic fluctuations



Correlation with annual mean temperature: 0.55, $p < 0.001$ ***

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Diversity of Butterflies and Moths

www.european-butterflies.ufz.de

Distribution of Butterflies in Europe (and adjacent areas)