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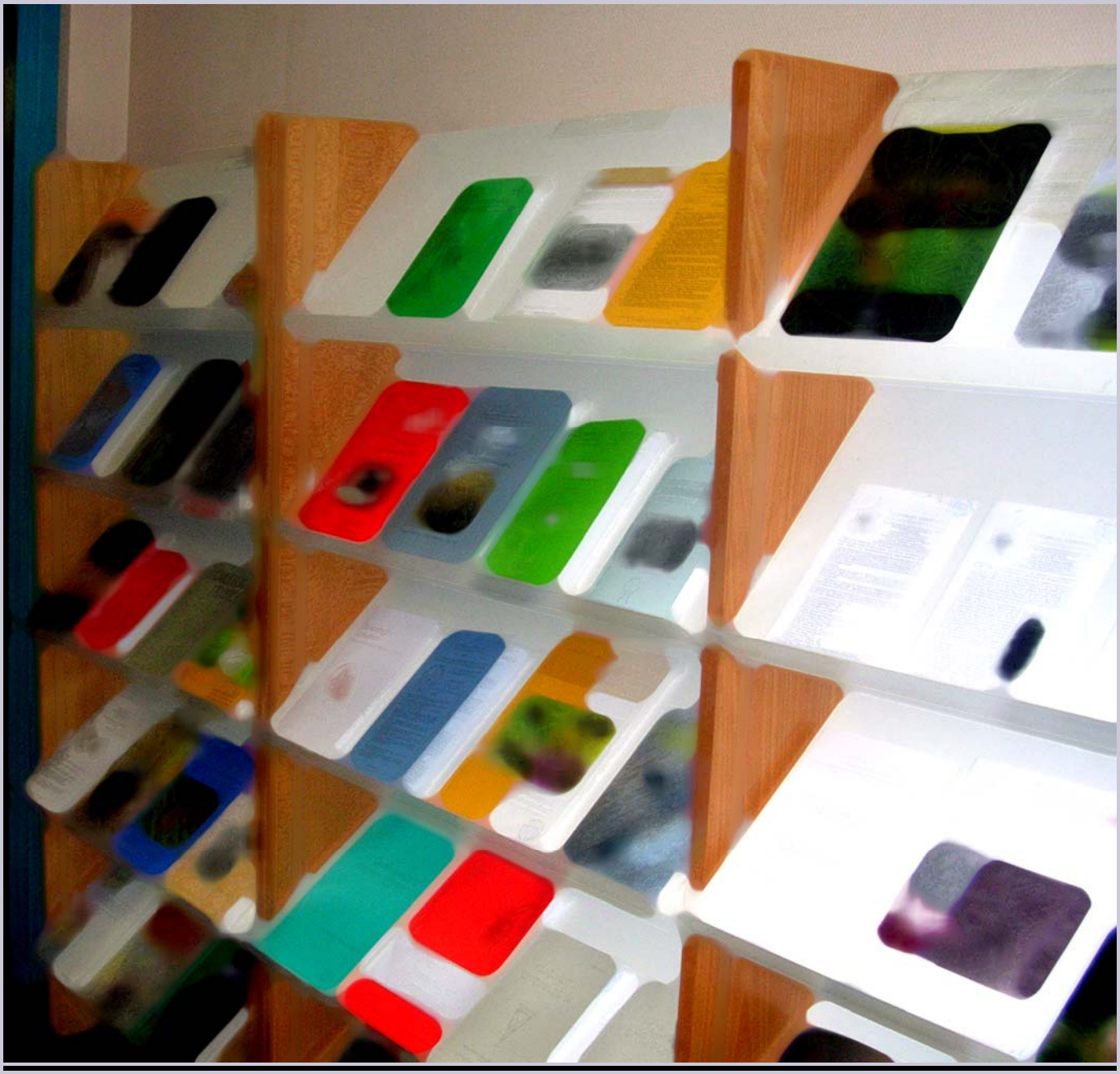

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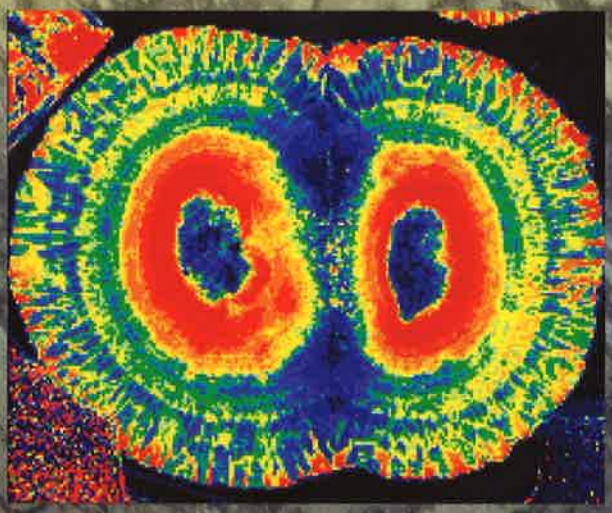

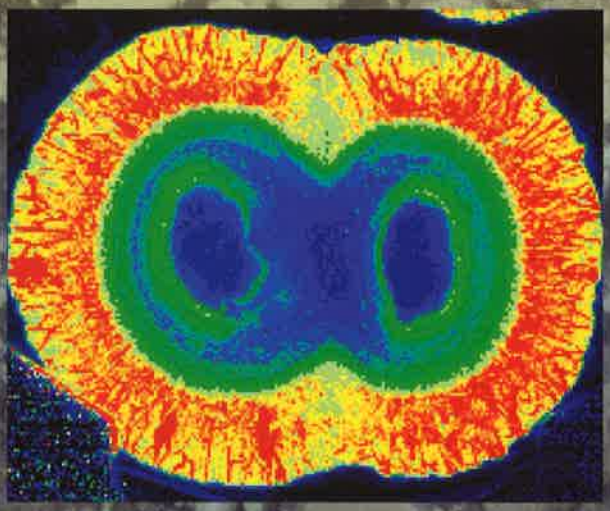

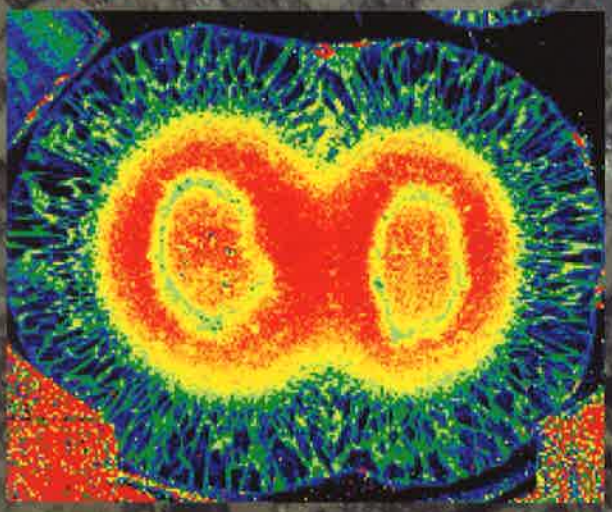

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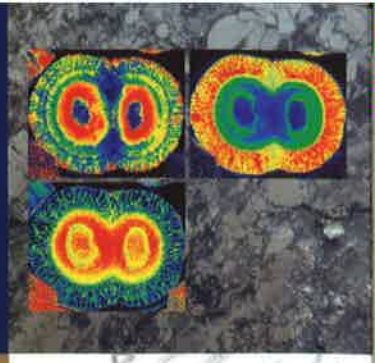

Cover Image: LA–ICP–MS element maps of a zoned grain of pyrite. Top left: cobalt. Top right: thallium. Bottom left: silver. Photo credit: Simon Jackson

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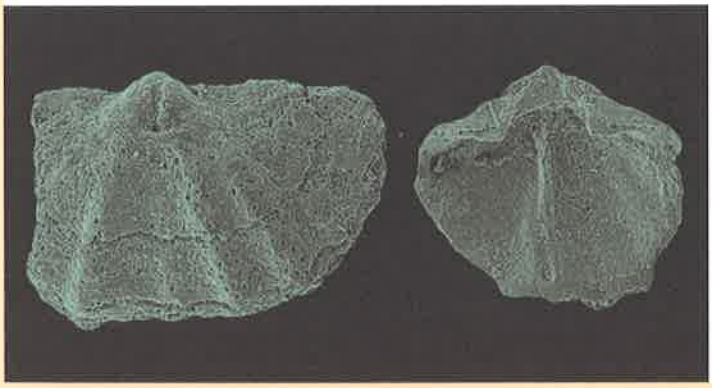

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Estimating head and body length in fossil rodents

Matthijs Freudenthal & Elvira Martín-Suárez

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M. Freudenthal, Departamento de Estratigrafía y Paleontología, Universidad de Granada, Avda. Fuentenueva s/n, E-18071 Granada, Spain, and Naturalis Biodiversity Center, P.O. Box 9517, NL-2300 RA Leiden, The Netherlands (mfreuden@ugr.es); E. Martín-Suárez, Departamento de Estratigrafía y Paleontología, Universidad de Granada, Avda. Fuentenueva s/n, E-18071 Granada, Spain.

Key words – body mass, teeth, tooth row length.
We present estimates for head and body length (HBL) of fossil rodents. We assembled HBL data and tooth row length data (LTR, UTR) for a large number of extant rodents, and calculated regression lines of HBL on LTR and UTR for all rodents together (all-rodents equation), and for separate taxonomic groups (family equations). In fossil rodents, data for complete tooth rows are scarce, therefore we use the sum of the lengths of the teeth (LRsum, URsum) as a surrogate for tooth row length. The relation between this parameter and real tooth row length (LTR, UTR) is calculated on the basis of a number of populations for which both parameters are available. We estimate HBL of fossil rodents, using LRsum and URsum and the regression lines of extant rodents, and we compare the results for lower and upper tooth row when both are available. For each species we calculate HBL through the all-rodents equation and through the family equation. We consider the amount of difference between these two values as a measure of the reliability of this method.

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Introduction

Freudenthal & Martín-Suárez (2013) published an approach to body mass estimates of fossil rodents on the basis of the parameters LRsum and URsum, that is, the sum of the mean lengths of the individual teeth that constitute the lower and upper tooth rows. Since then we have considerably augmented our data base of fossil rodent measurements and recent rodent tooth row lengths, and we have added and corrected some body mass data for extant rodents.

Besides body mass, head and body length (HBL) is a second parameter commonly found in studies on Recent mammals, and here we use it to further test the validity of

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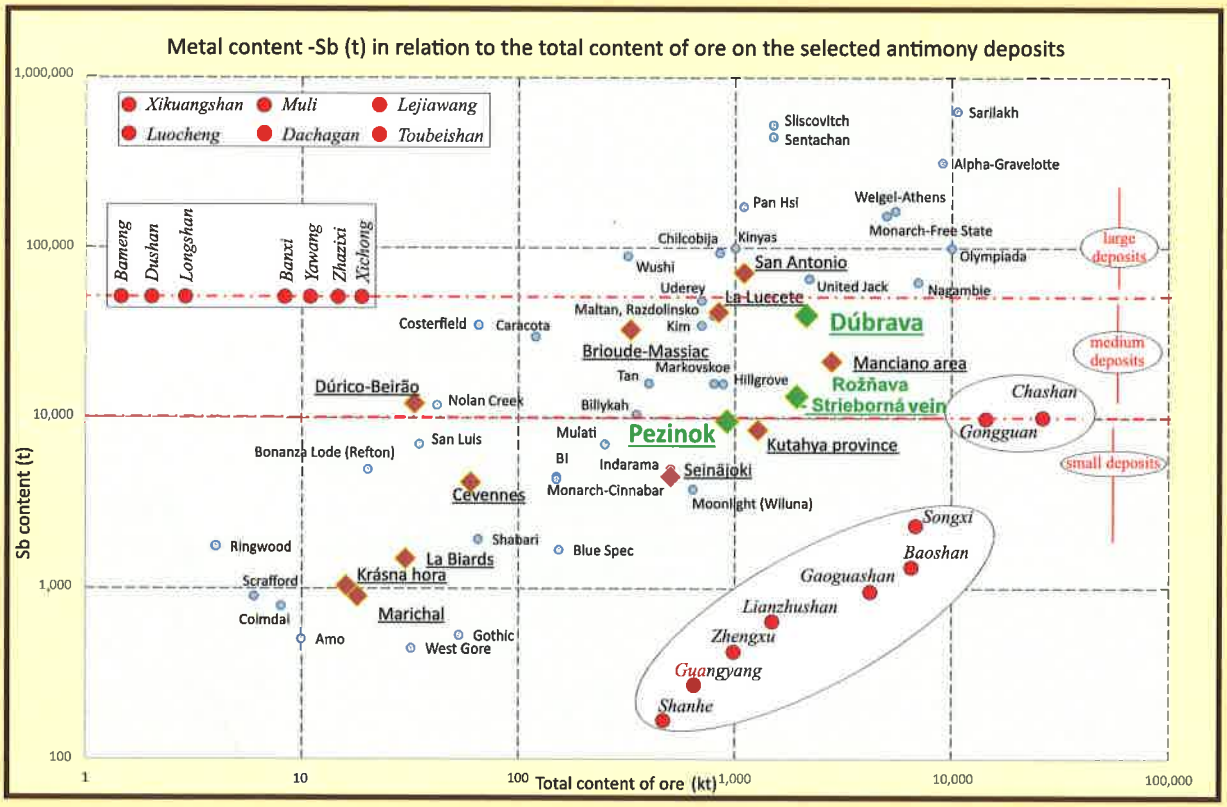

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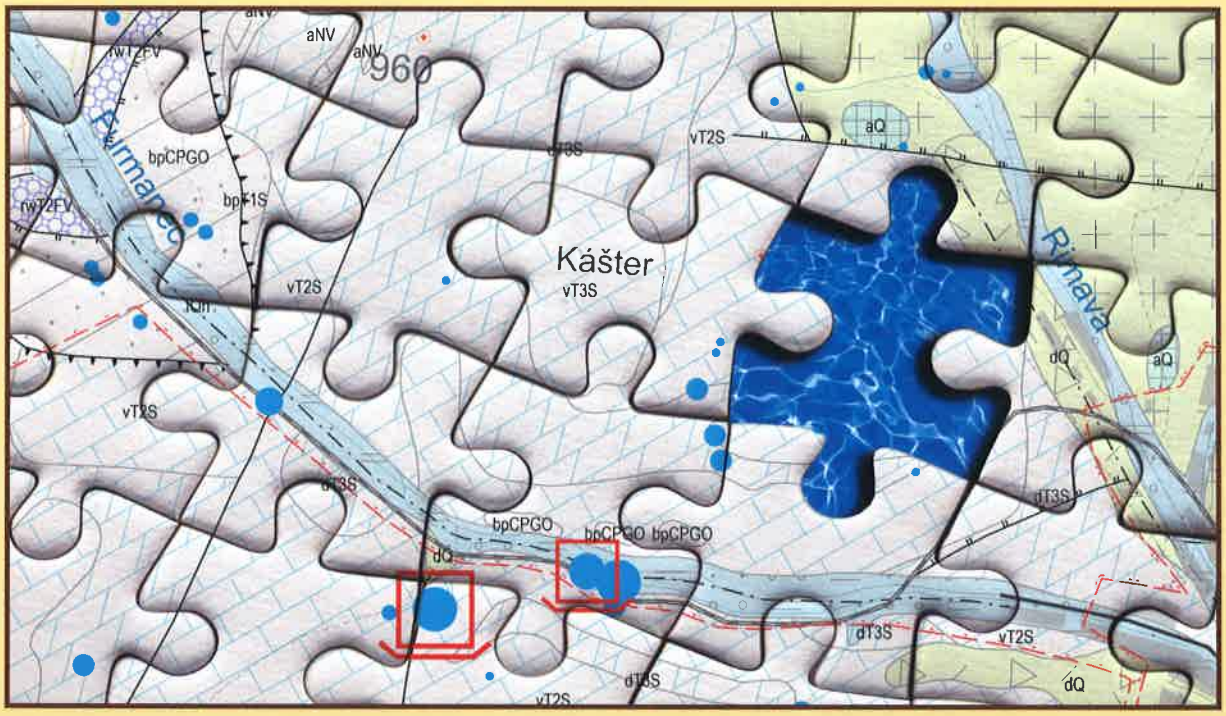

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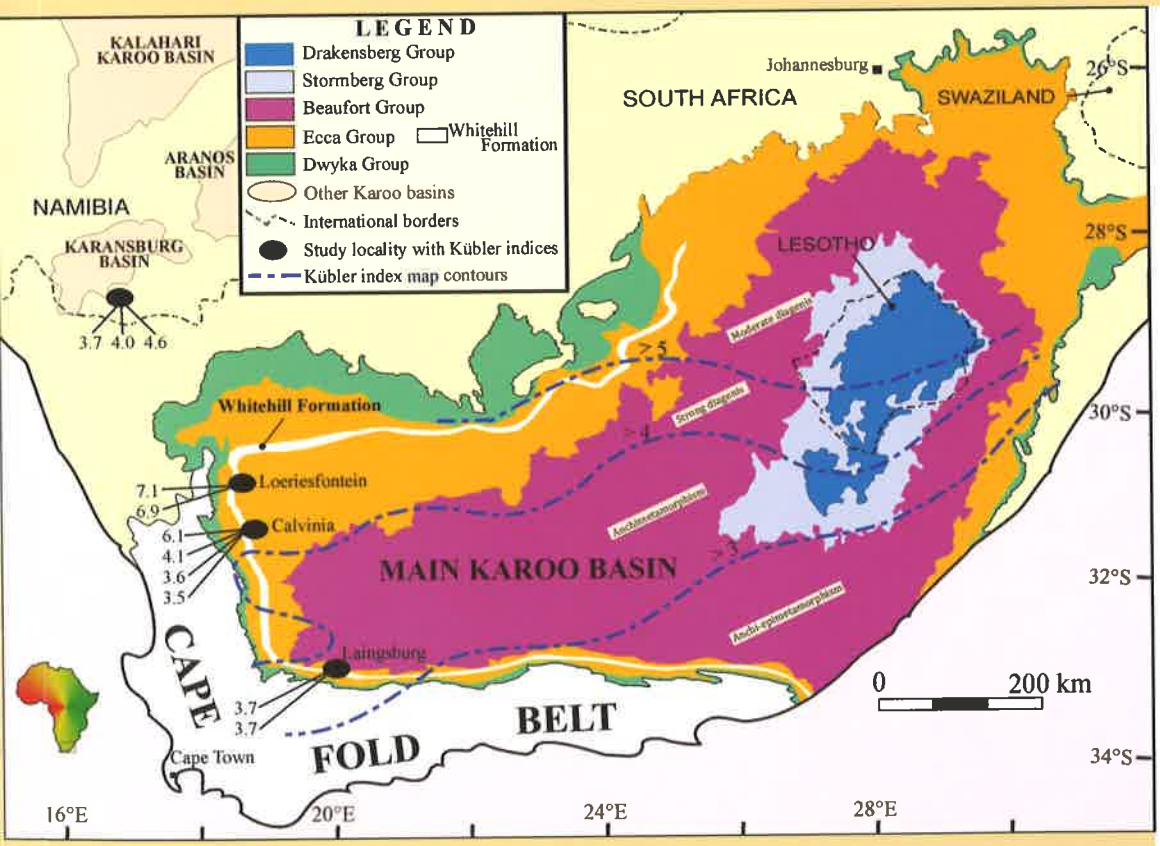

General geological map of South Africa. showing the extent of the main Karoo Basin. The Early Permian Whitehill Formation crops out extensively along the southern and western portions of the basin as well as in the Karasburg Basin (southern Namibia). The blue dashed lines show the Kübler Index (expressed as 10 x Δ°2Θ) contours within the main Karoo Basin Map modified after Rowsell and de Swardt (1976) and Johnson et al. (1996). *See T. Smithard, E.M. Bordy and D. Reid* 489-510

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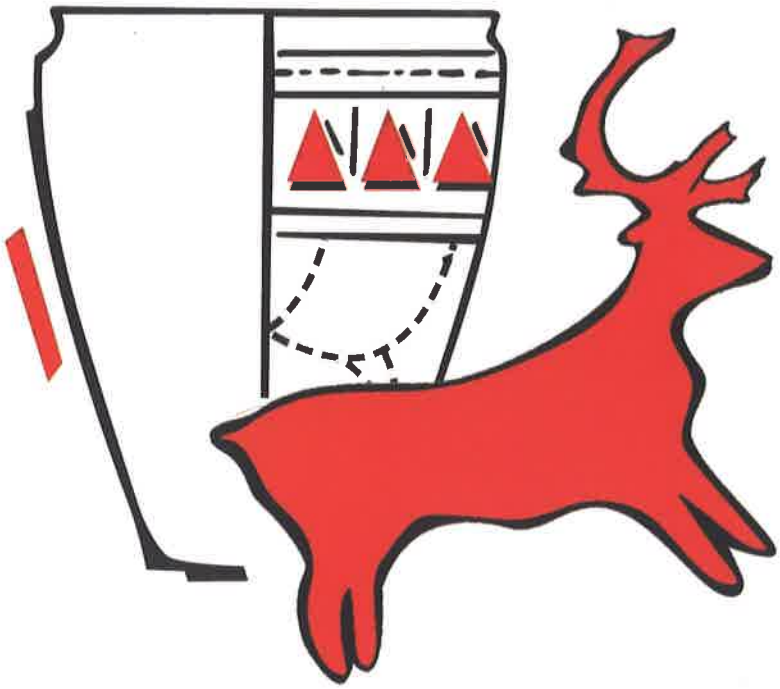

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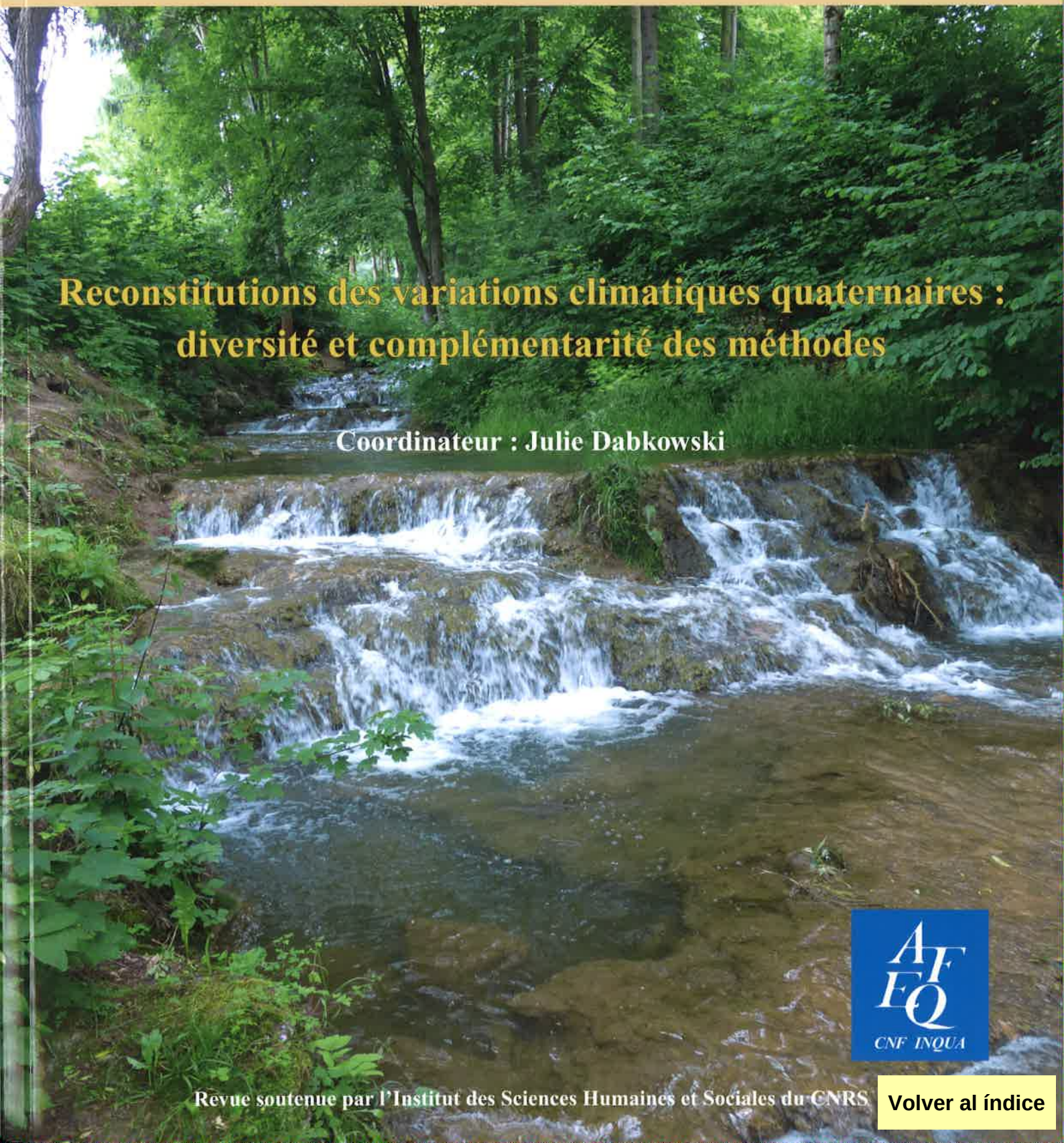

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En el paraíso europeo de las aves

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Diversidad de paisajes fruto de una gestión sostenible

La naturaleza en Monfragüe es exuberante, eso lo saben los lectores de *Quercus*, que conocen lo que ofrece el parque nacional. El objeto de este especial es difundir los enormes recursos que atesora la comarca integrada por la Reserva de la Biosfera de Monfragüe, que amplía a catorce los municipios afectados por esta figura de protección. Nos distingue, además, como un espacio con una gestión sostenible y racional de los recursos naturales, obteniendo lo necesario sin esquilmarlos y garantizando la conservación del espacio para generaciones venideras.

Es importante destacar que también se opera de forma sostenible en la planificación turística. La Diputación de Cáceres, en colaboración con las administraciones ambientales y turísticas regionales y nacionales, ha consolidado en los últimos siete años una forma de trabajo coordinada entre agentes territoriales, que permiten poner en valor los recursos naturales manteniendo como objetivo la sostenibilidad del territorio. Este especial pretende acercar a los lectores tanto los valores ambientales, como el esfuerzo por poner en marcha iniciativas turísticas sostenibles, que puedan servir de ejemplo a otros territorios.

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Probablemente van a sorprender las visitas a todos los espacios que os descubre el especial, pues acompañando a la naturaleza de siempre hoy es posible alimentar nuestra curiosidad y llevarnos lecciones de buena gestión; de una gestión sostenible.

María del Rosario Cordero
Presidenta de la Diputación de Cáceres

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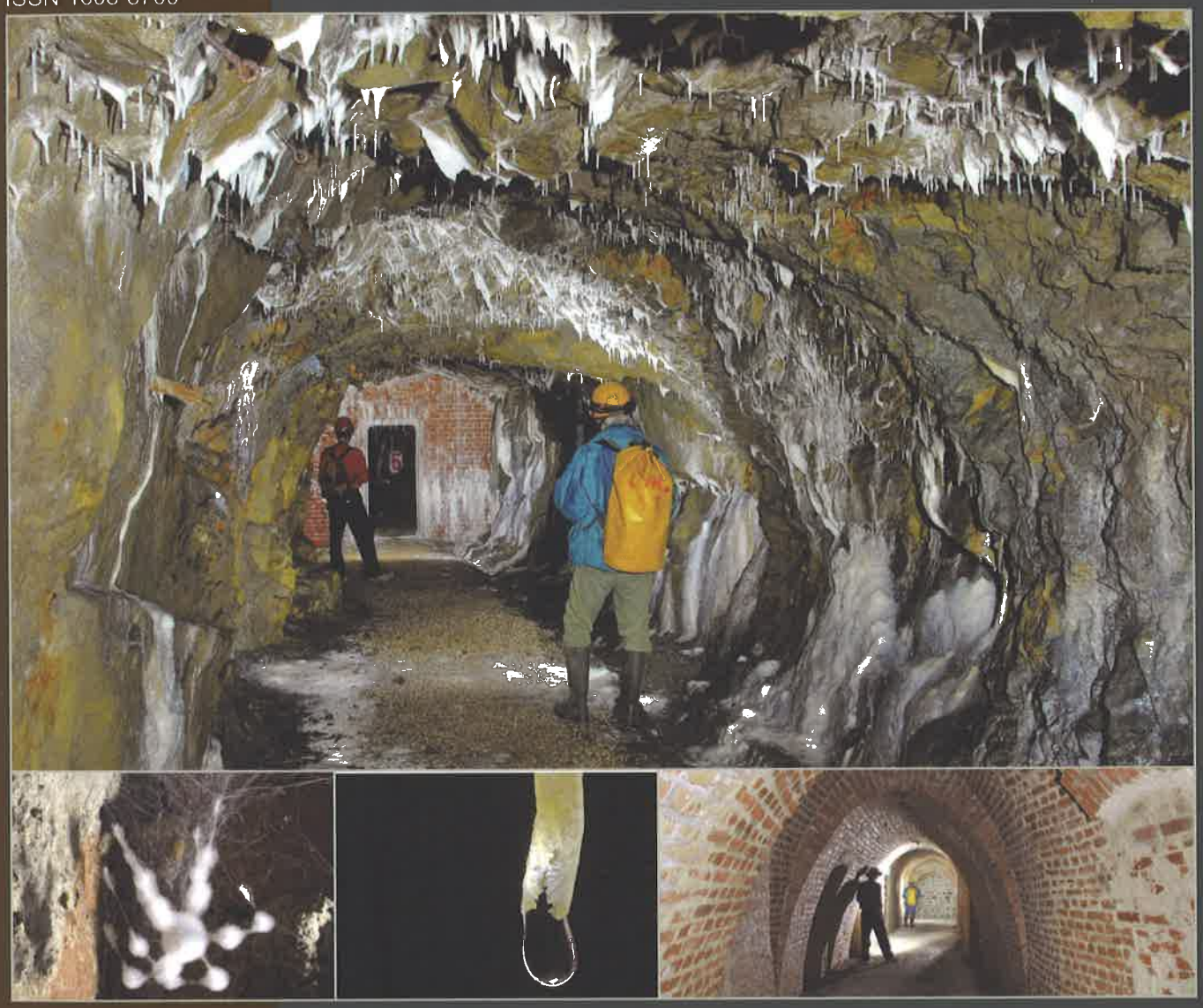

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Eine naturwissenschaftlich-historische Bestandsaufnahme

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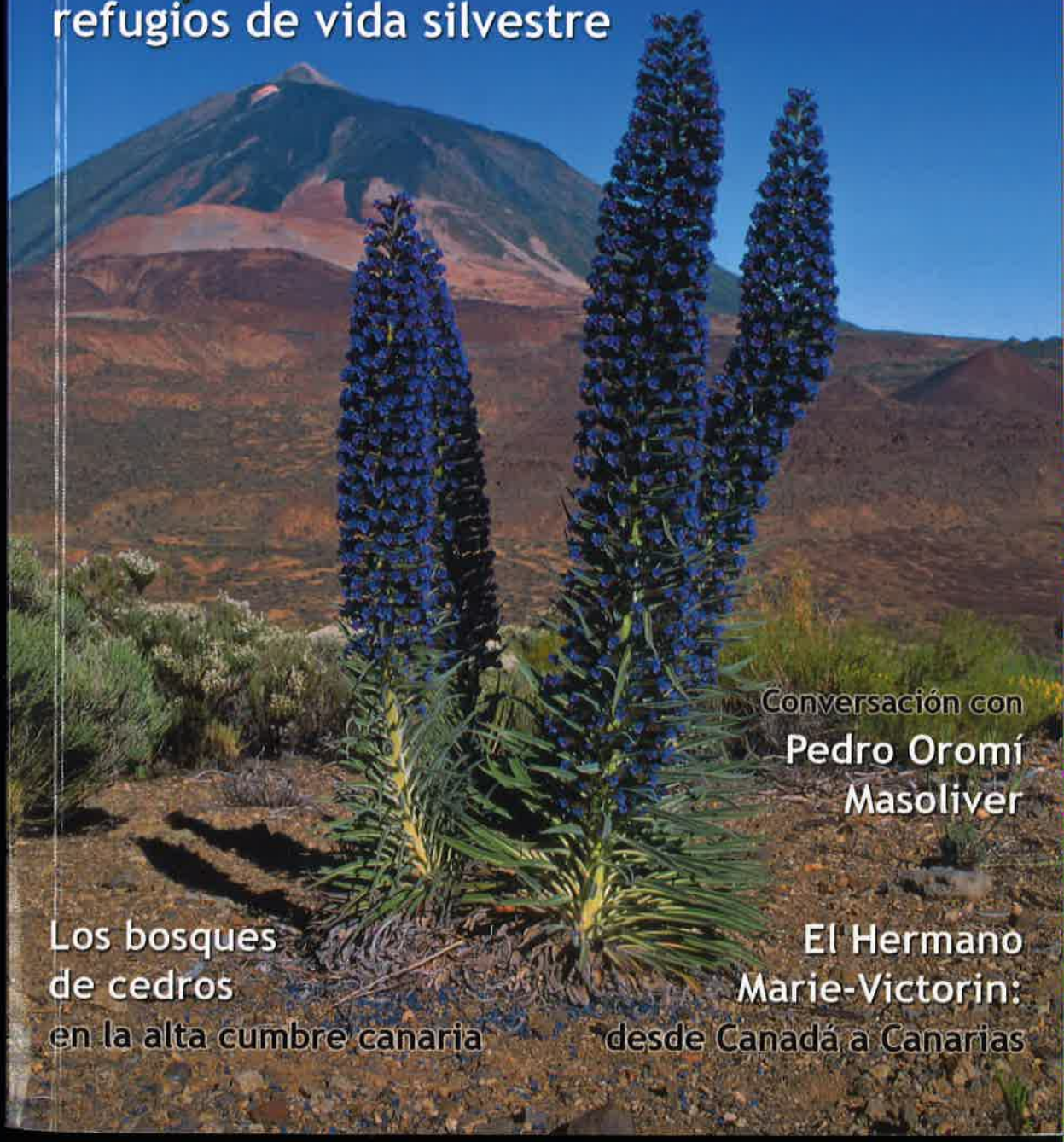

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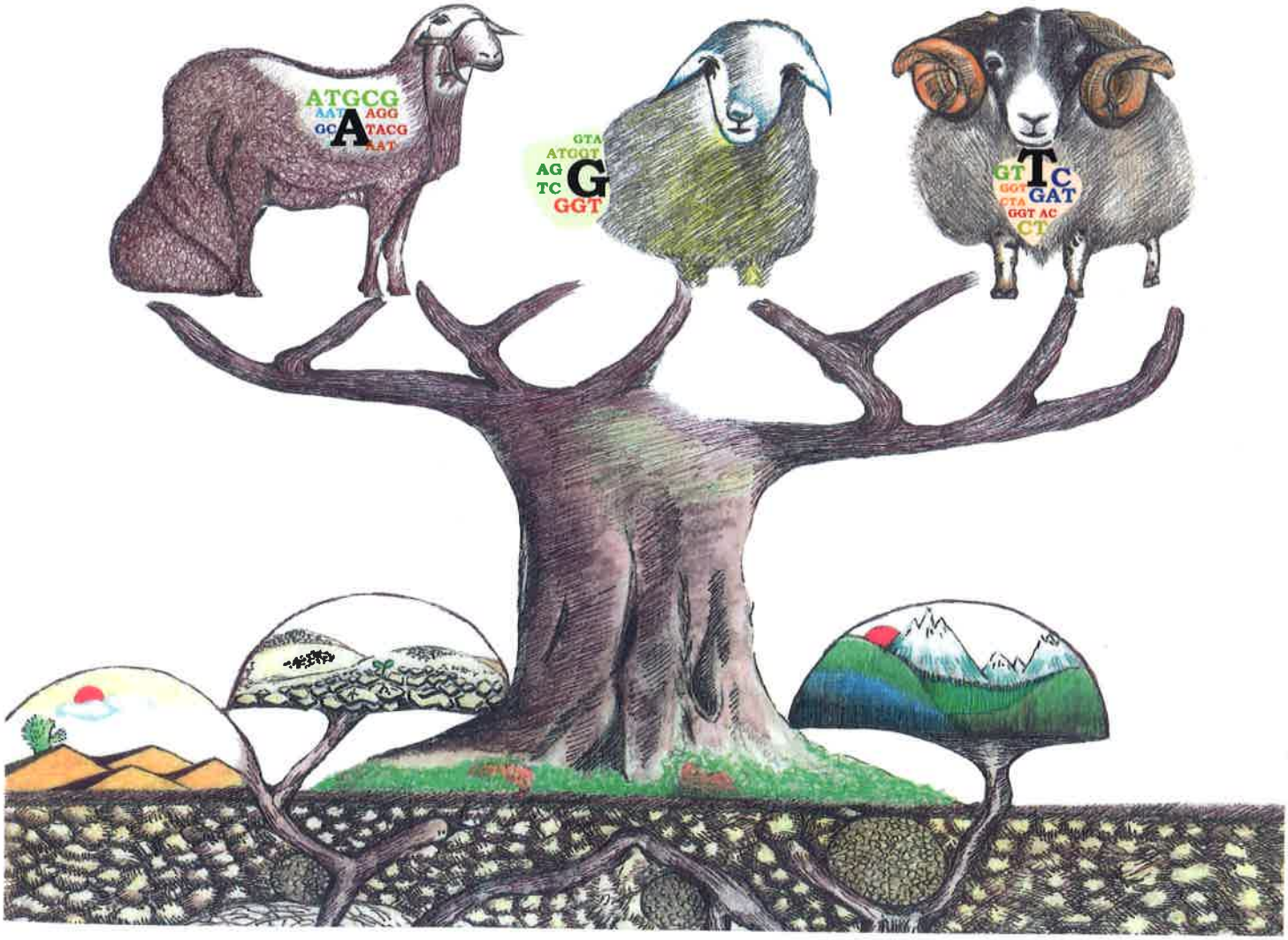

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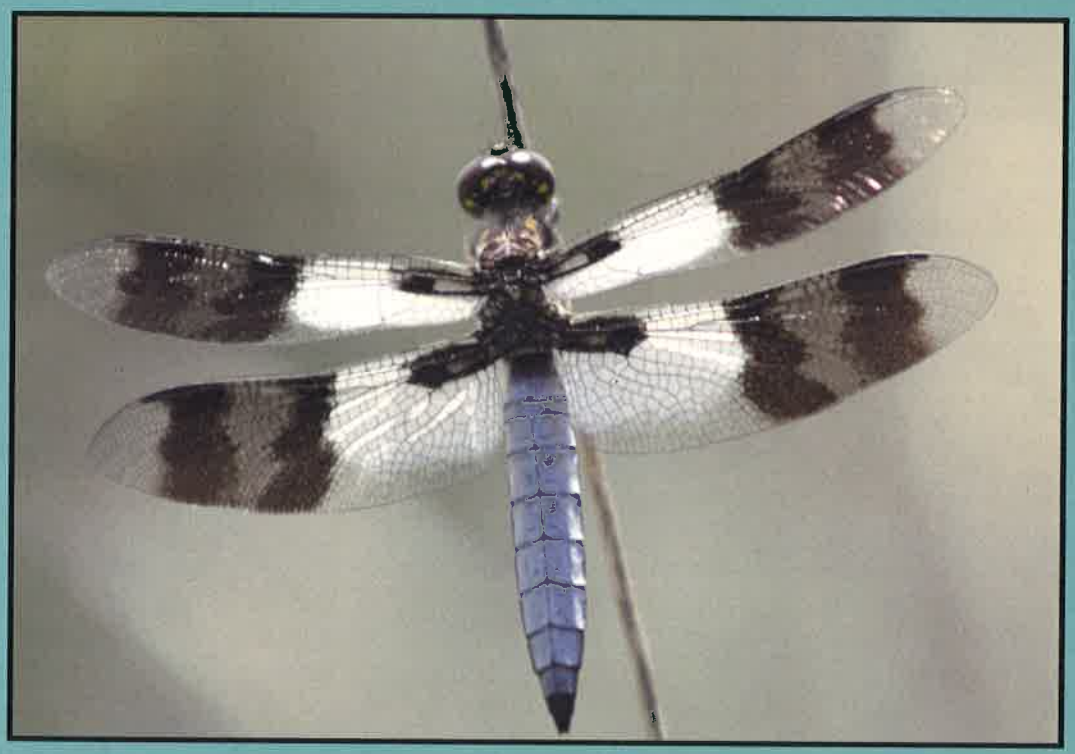

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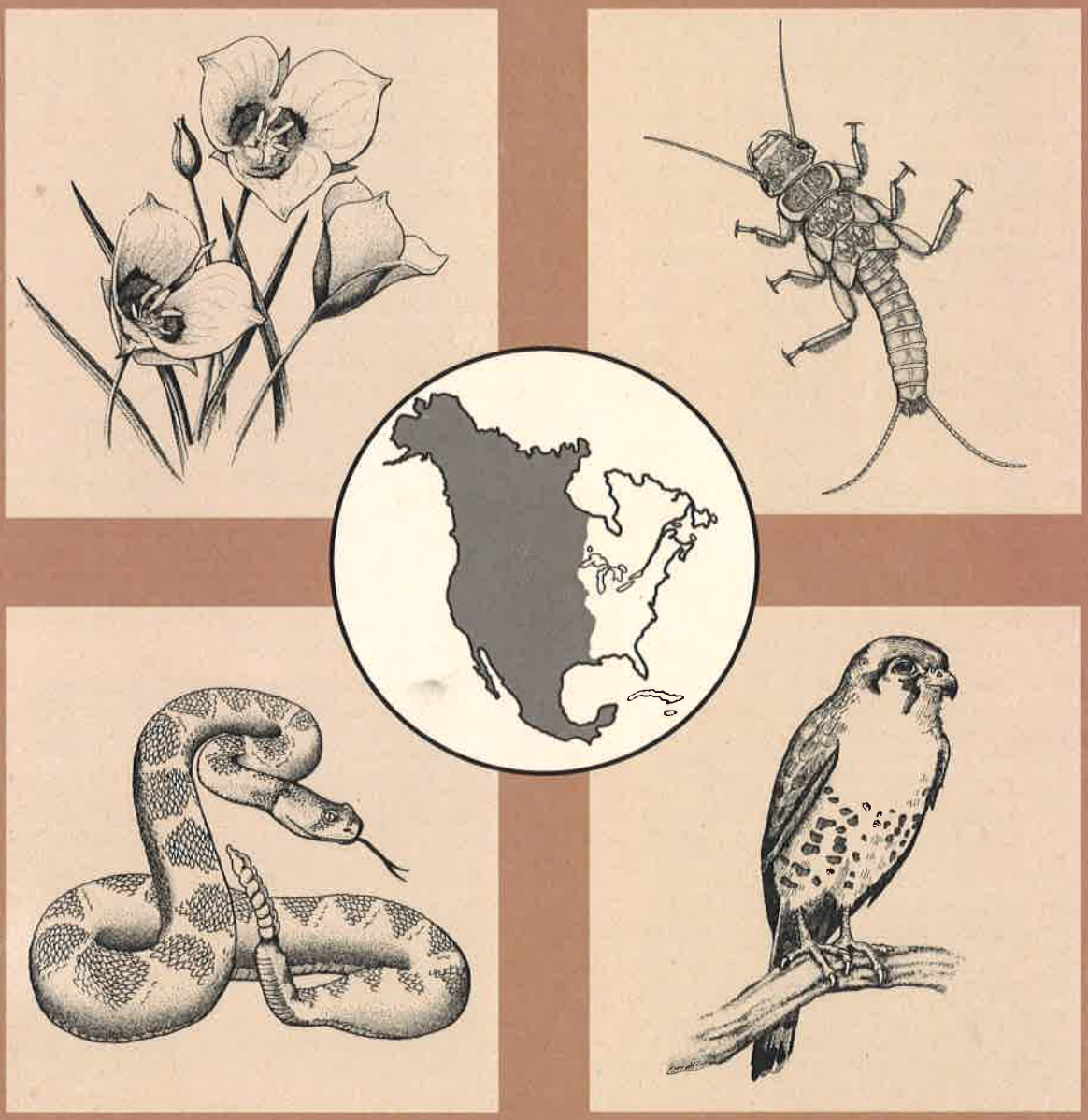

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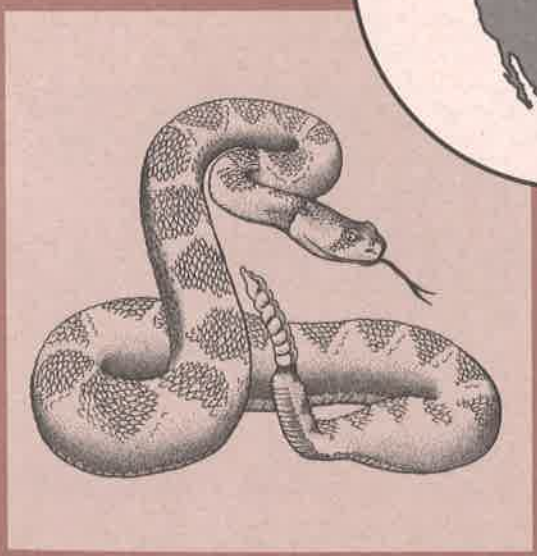

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African fauna in terrestrial, freshwater, and marine ecosystems

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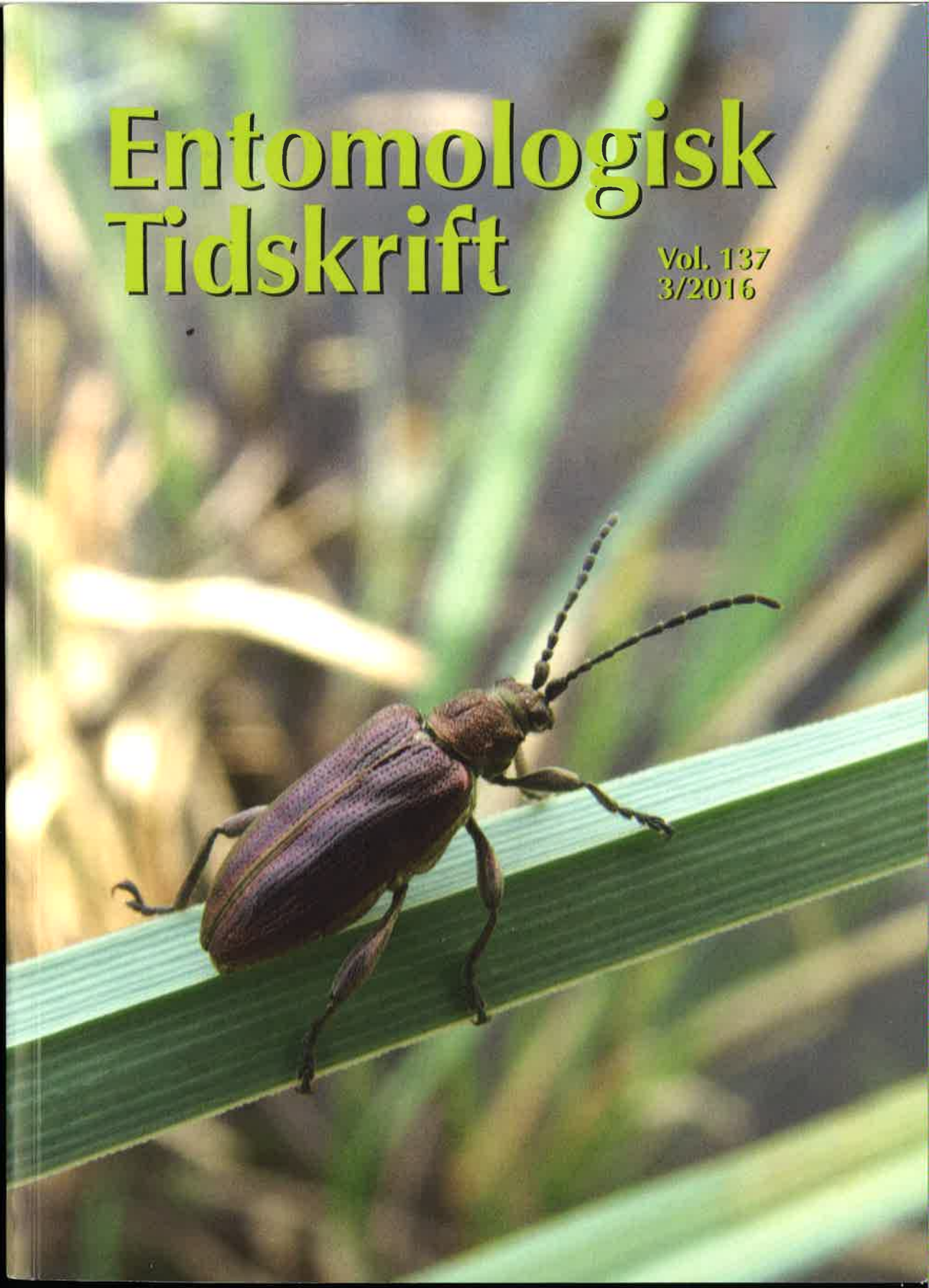

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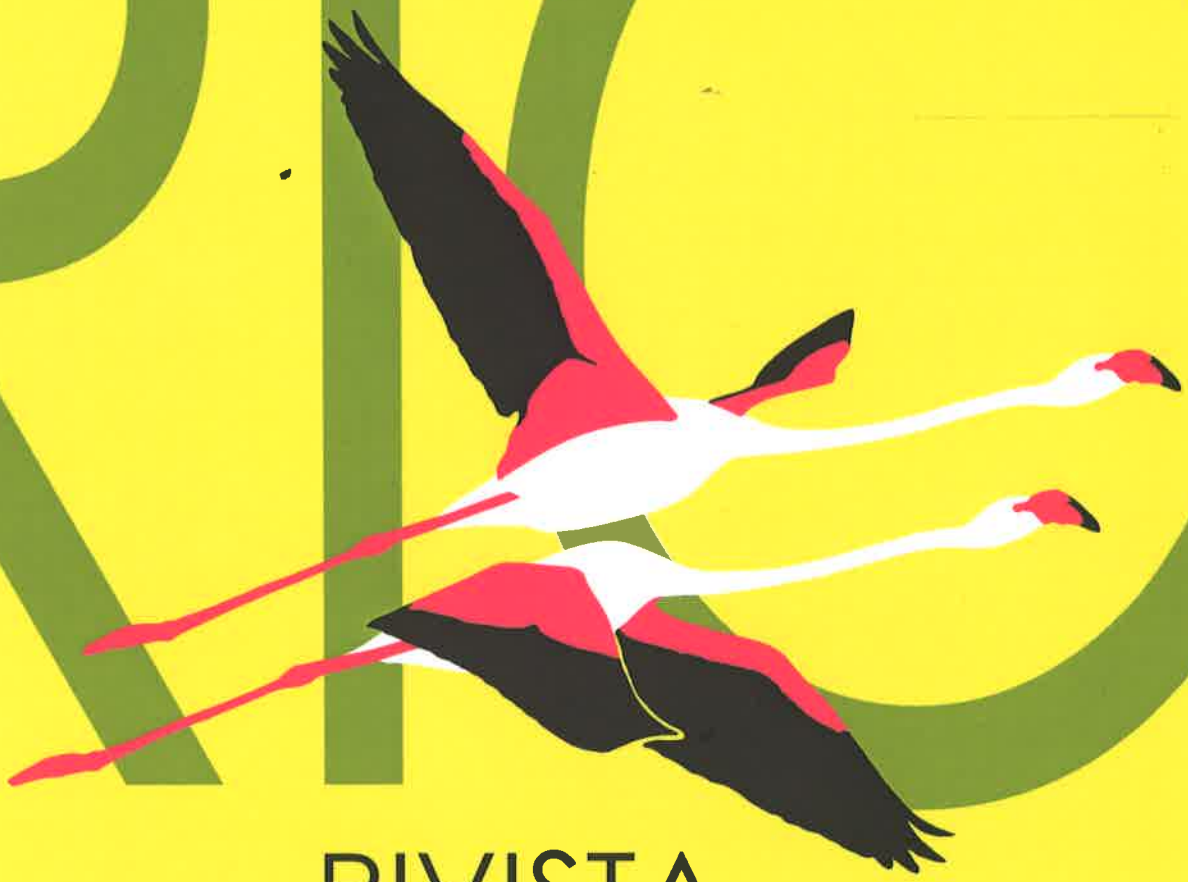

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