

the erosion of a neolithic enclosure site ottenburg, belgium

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Anton Van Rompaey

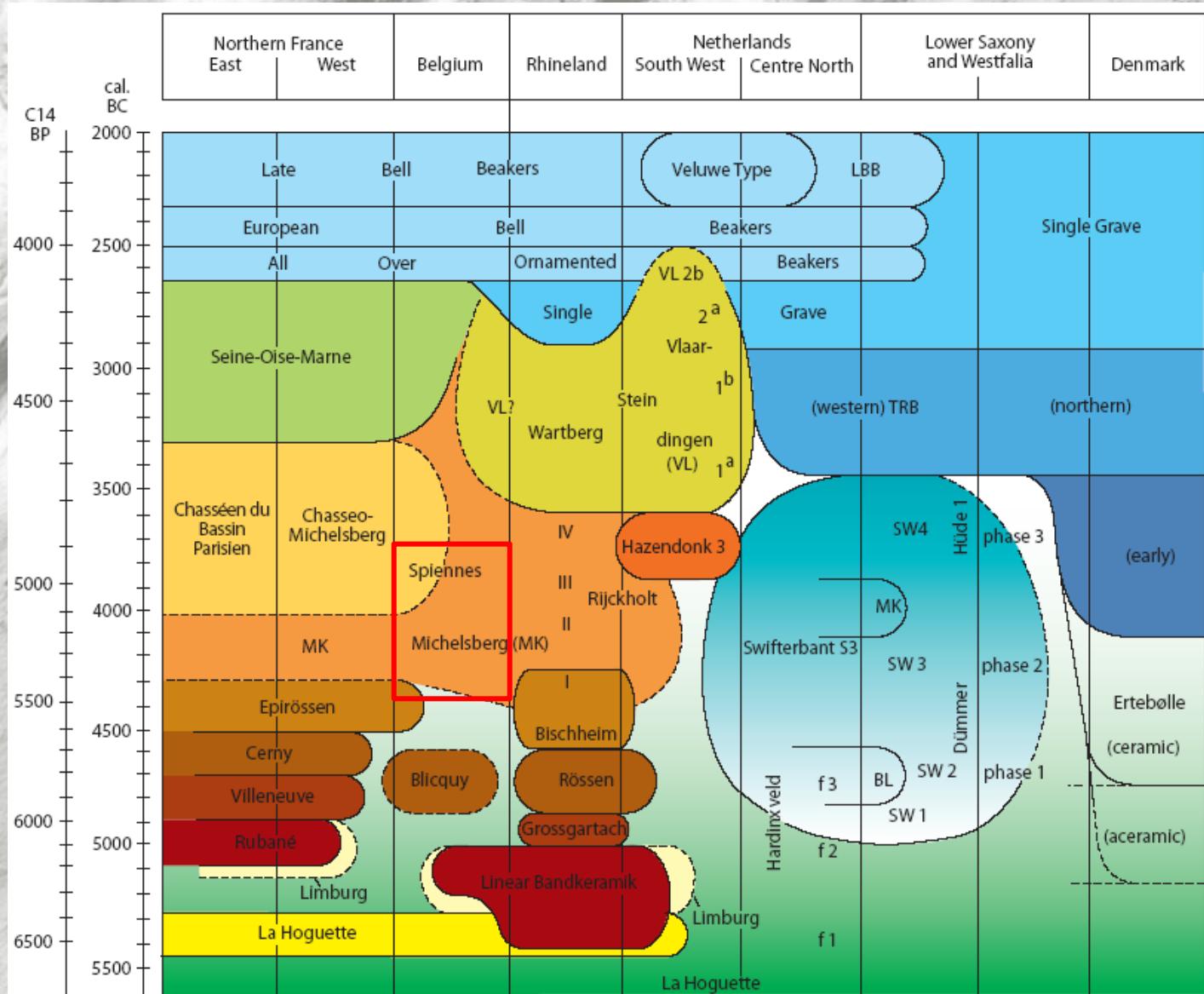
the erosion of a neolithic enclosure site ottenburg, belgium

Project aims

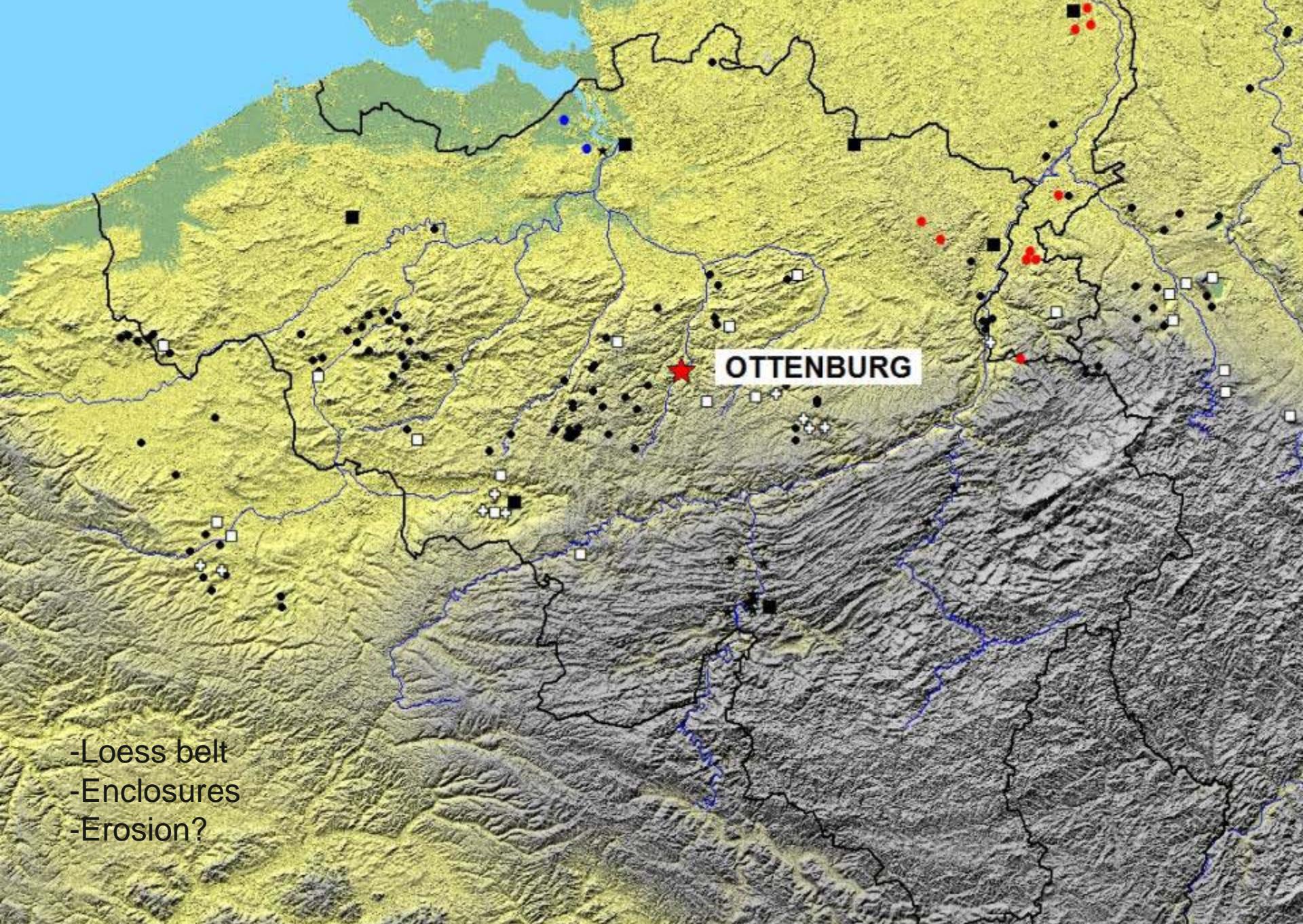
- evaluation & management
- case use Lidar (2002/2003)

Case study

- Neolithic enclosure sites

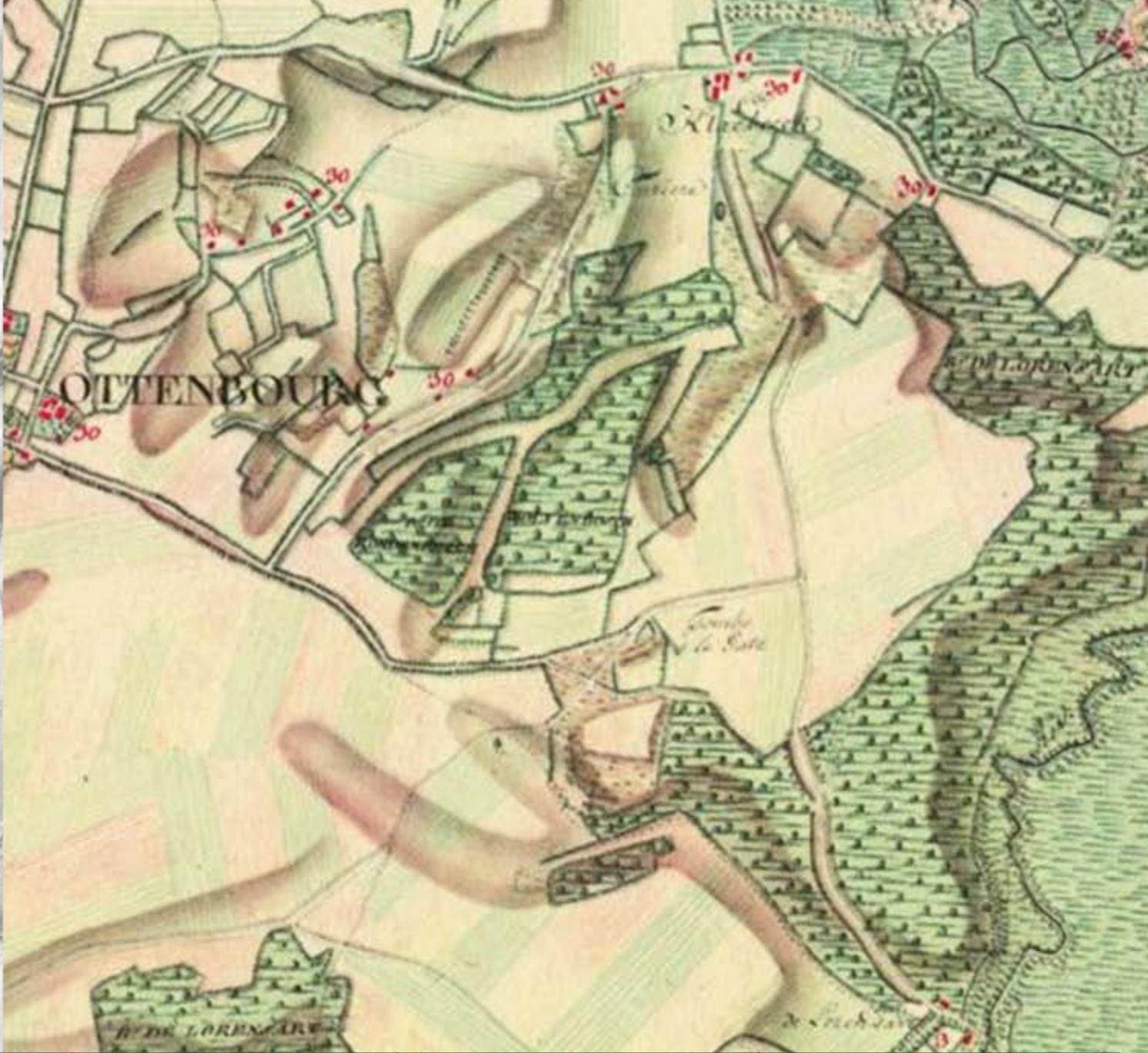


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Ferraris 1777
Carte-de-Cabinet
of the Austrian
Netherlands



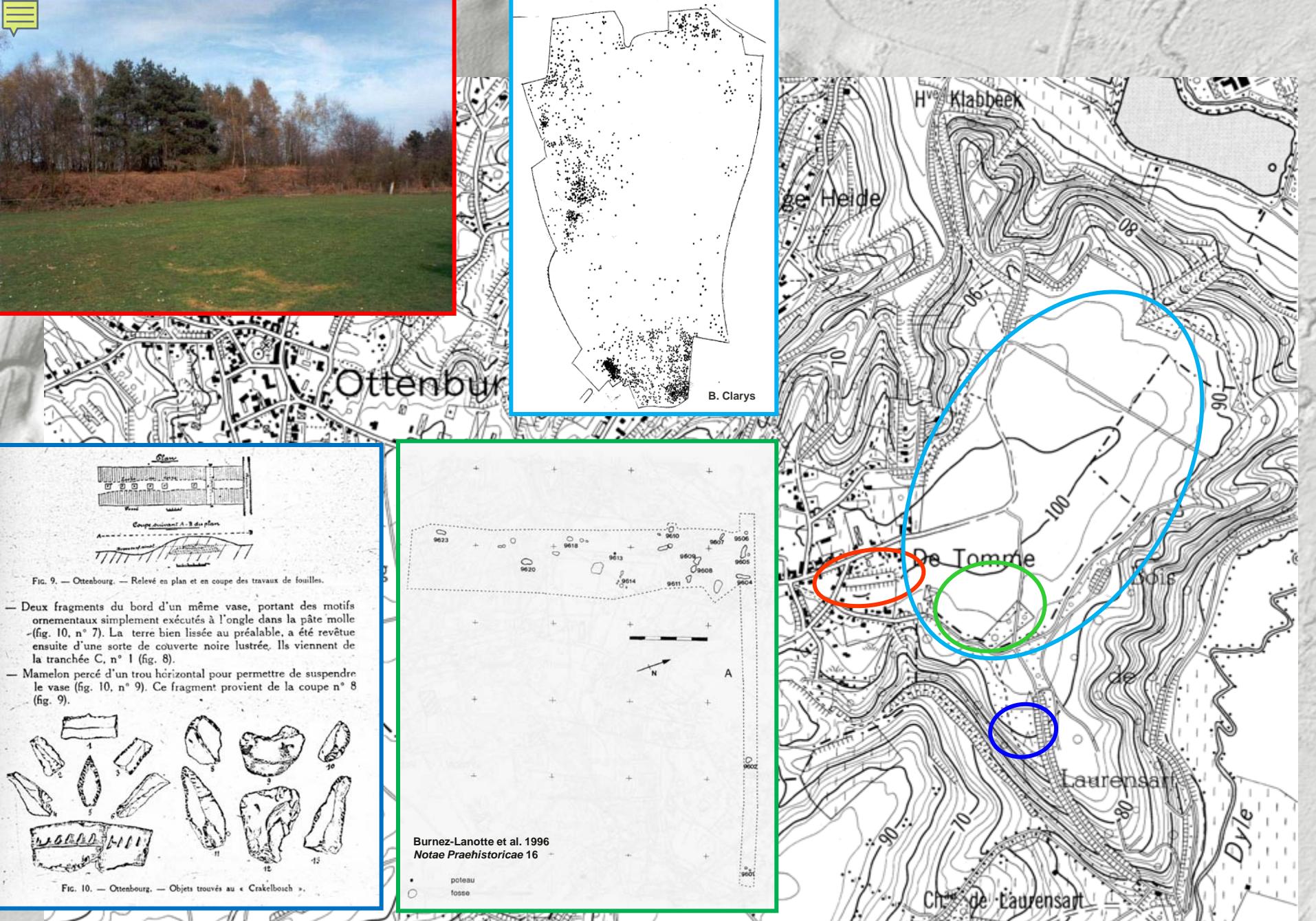
Introduction

DEM

Historical erosion

Current erosion

Management



Method

DEM

- Construction based on Lidar data
- Visual inspection

Historical erosion: augering

Present-day erosion: modelling



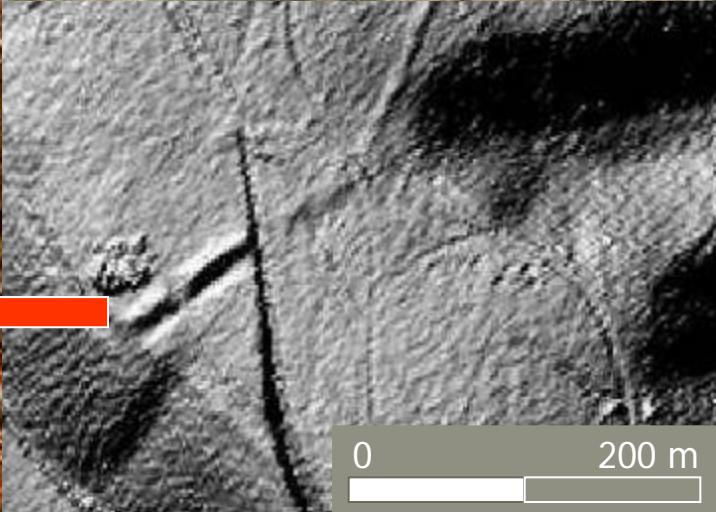
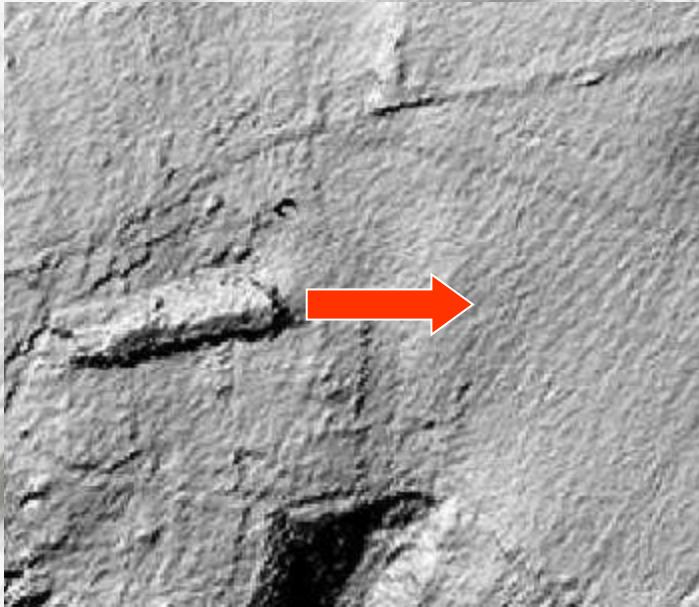
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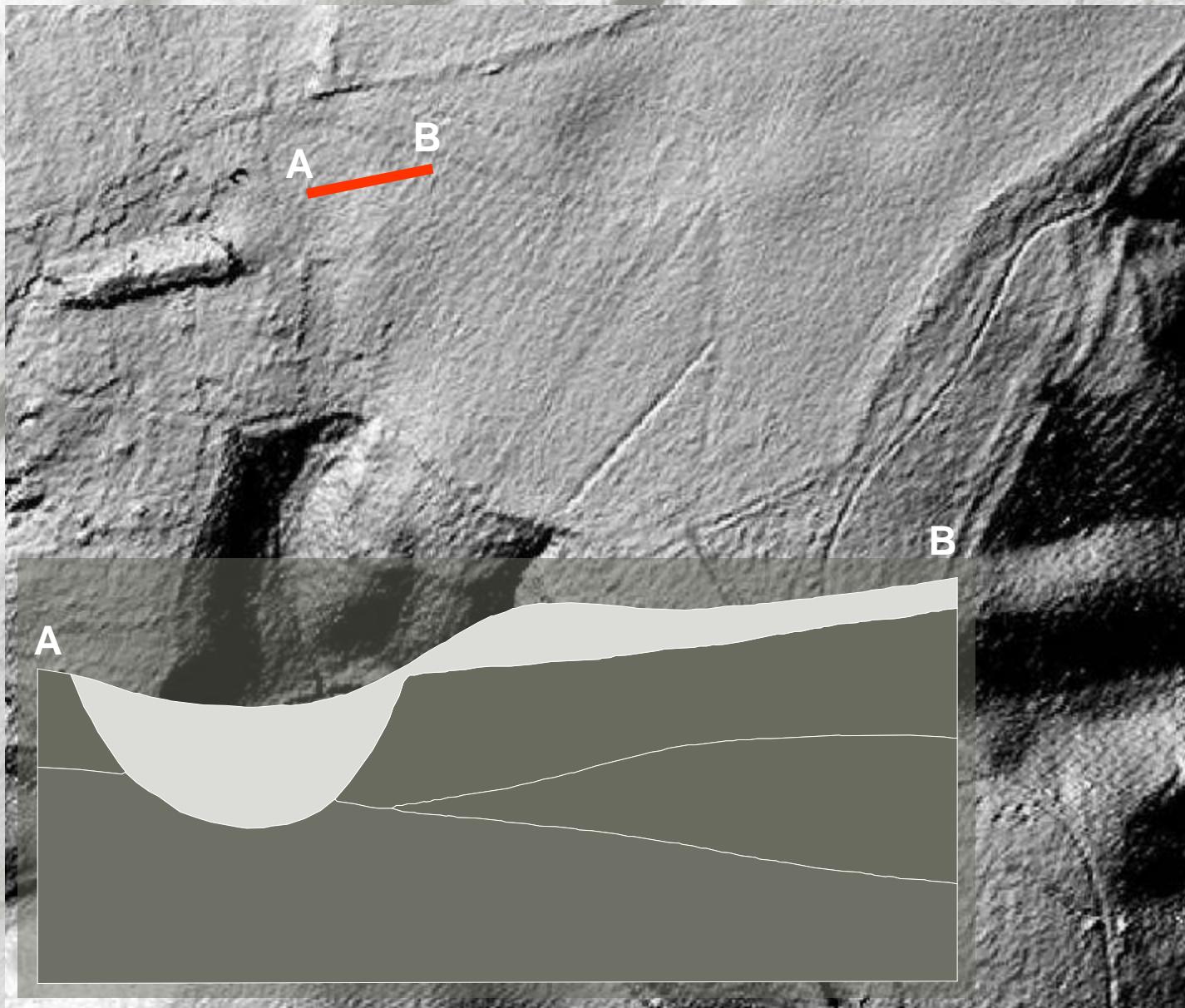
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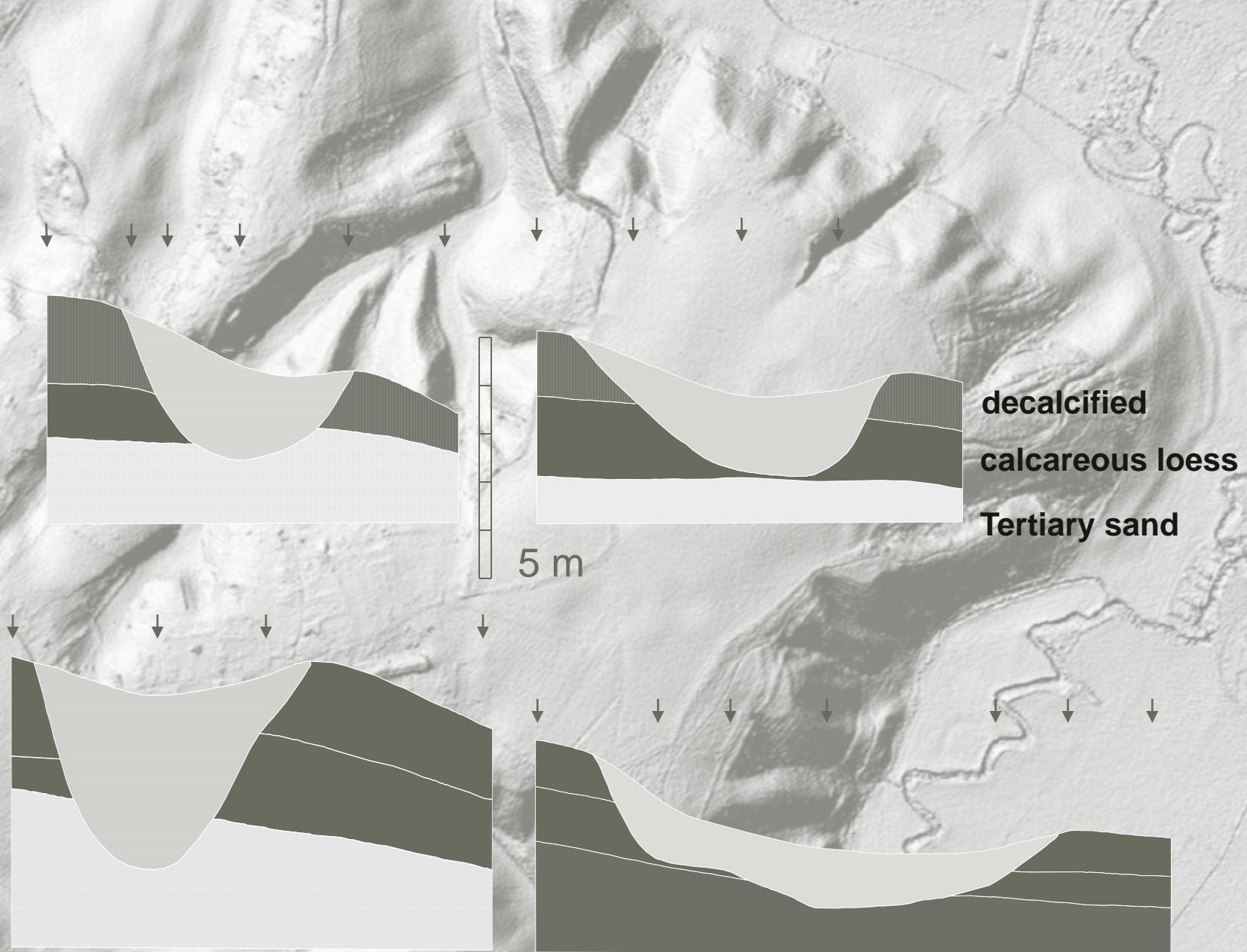
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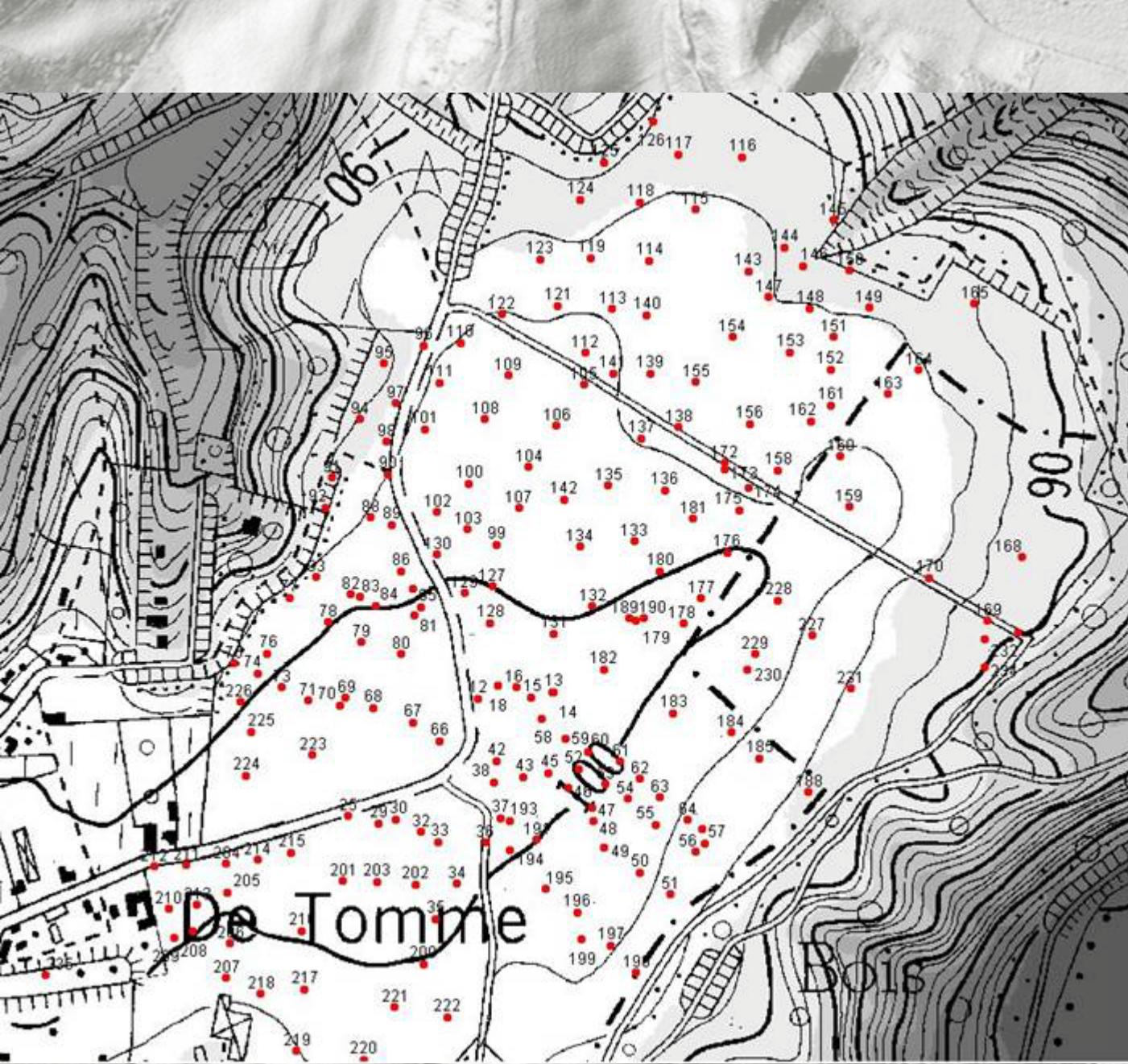
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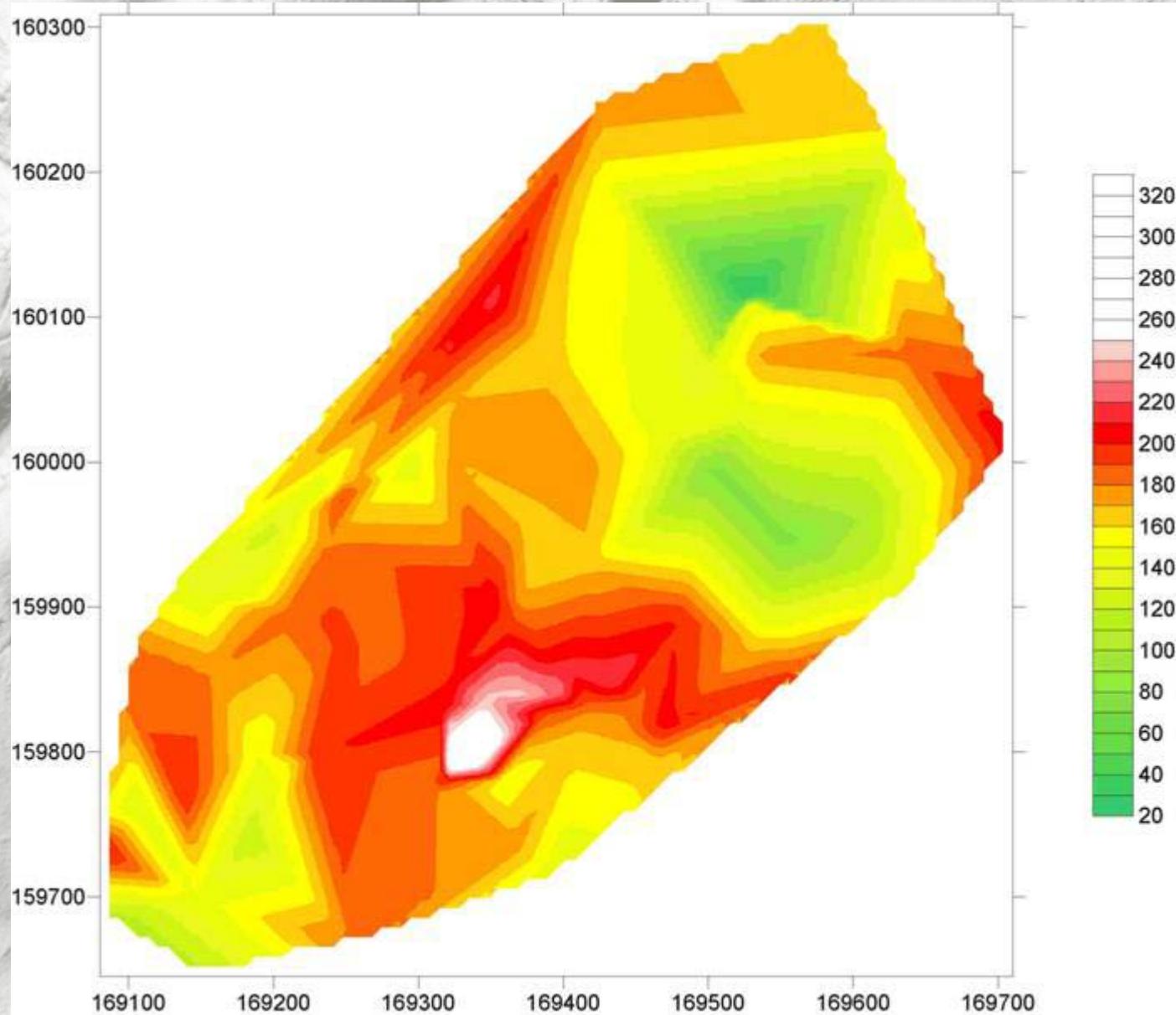




120 cm

C

200-250 cm



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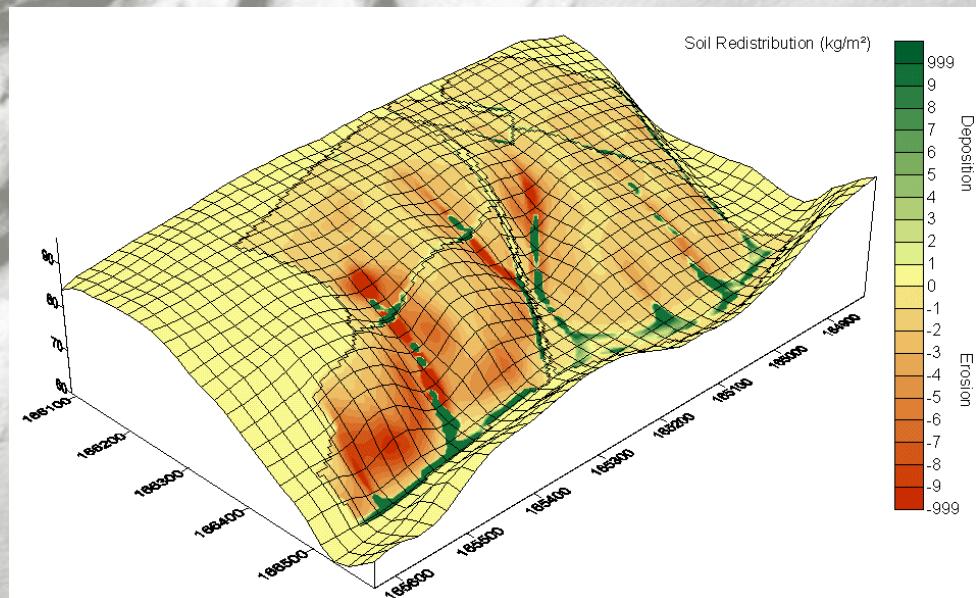
Current erosion

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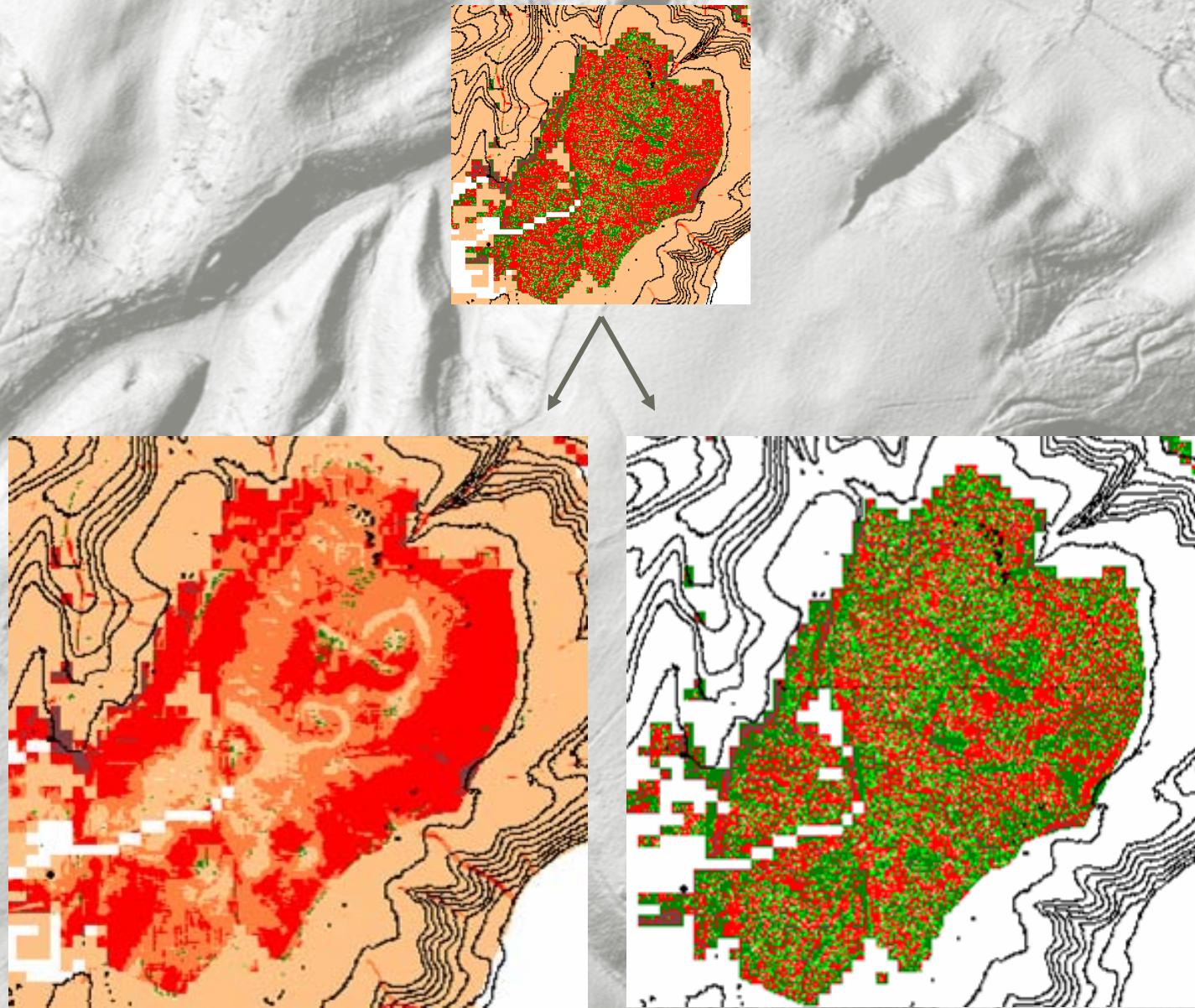
Modelling present-day erosion

WaTEM/SEDEM

<http://geo.kuleuven.be/geography/modelling/erosion/index.htm>



- Spatially distributed soil erosion & sediment delivery model
- Simulate impact of soil conservation & sediment control measures
- Water erosion: RUSLE
 - + Field borders, tillage direction & road infrastructure



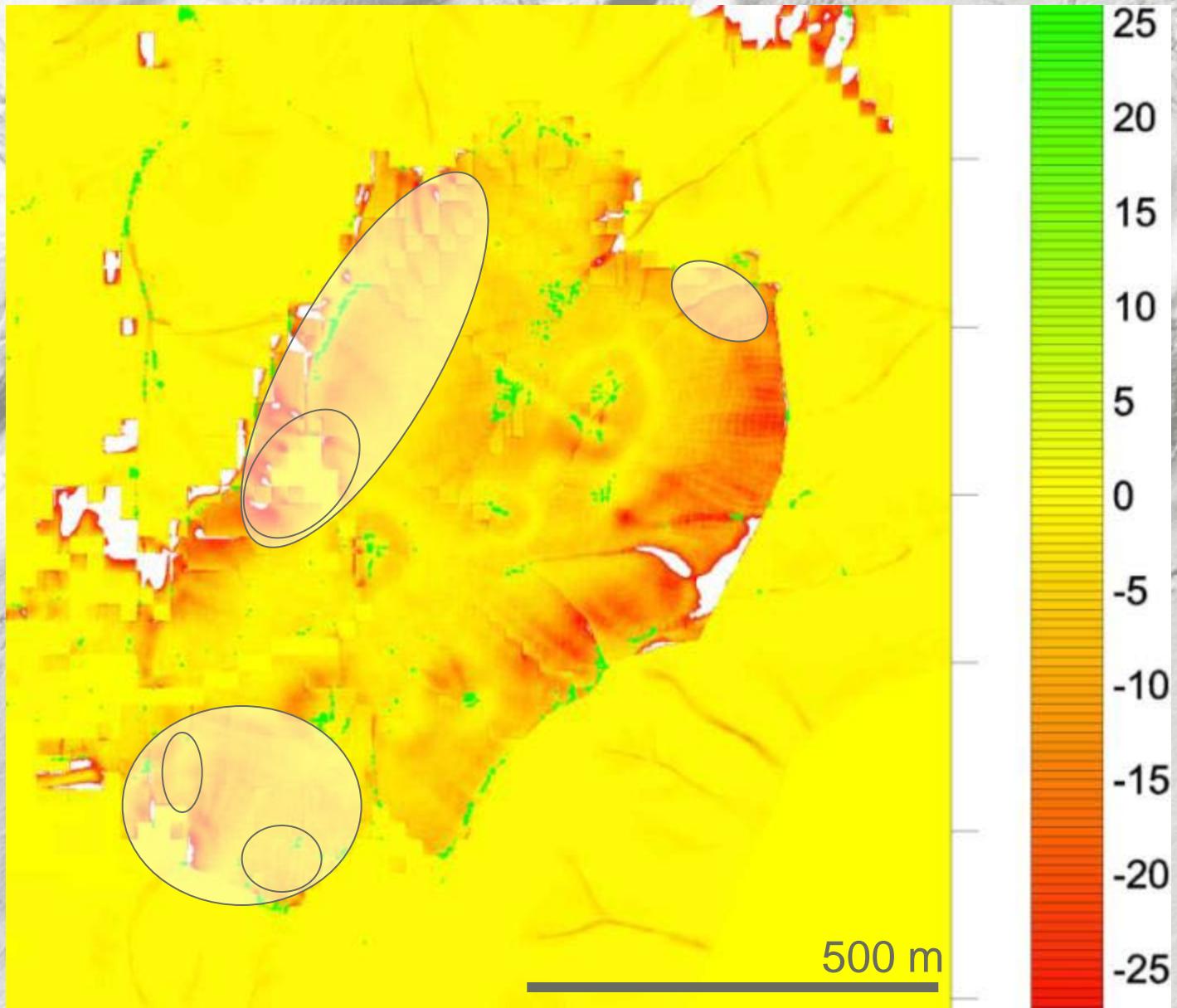
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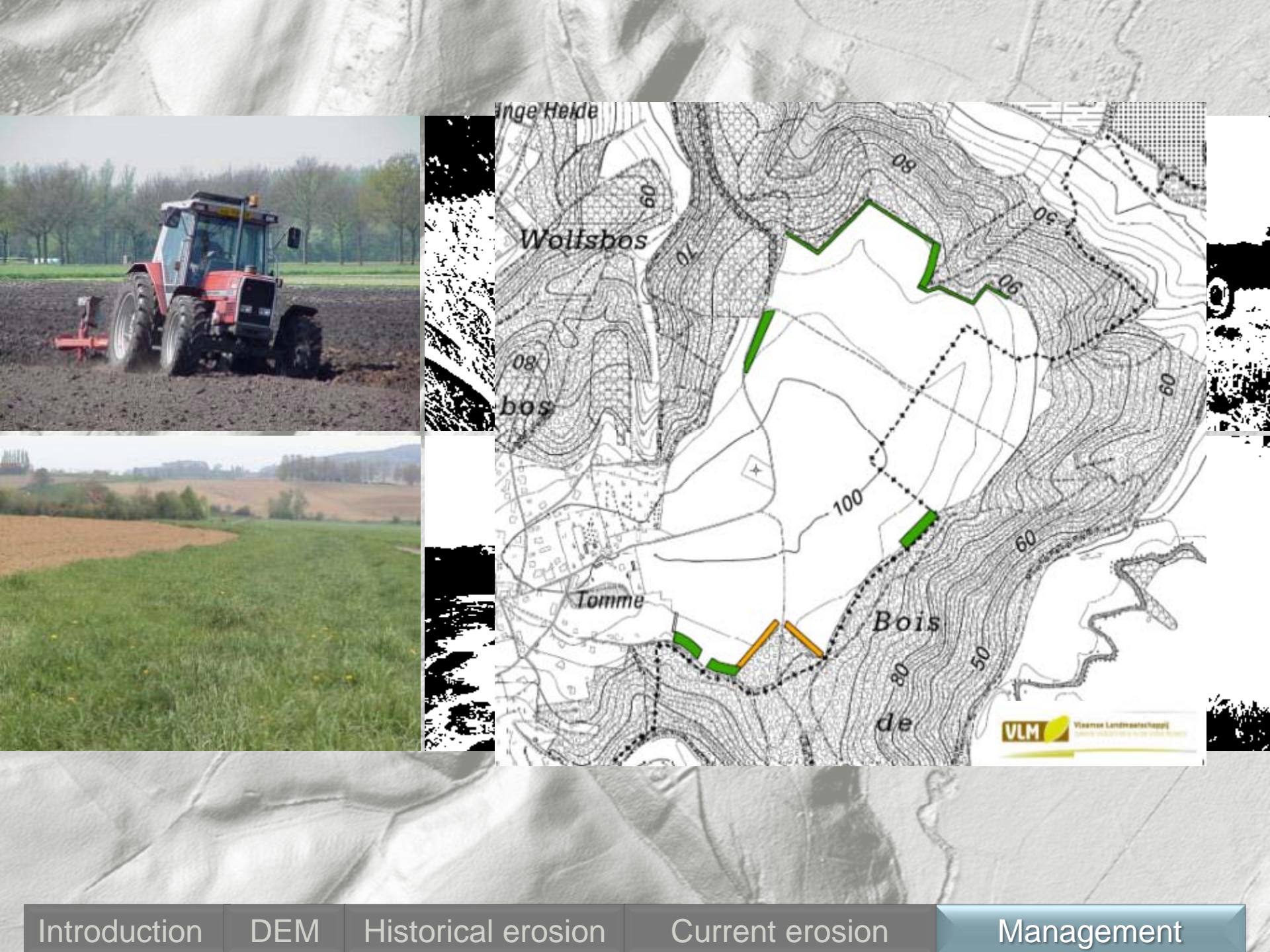
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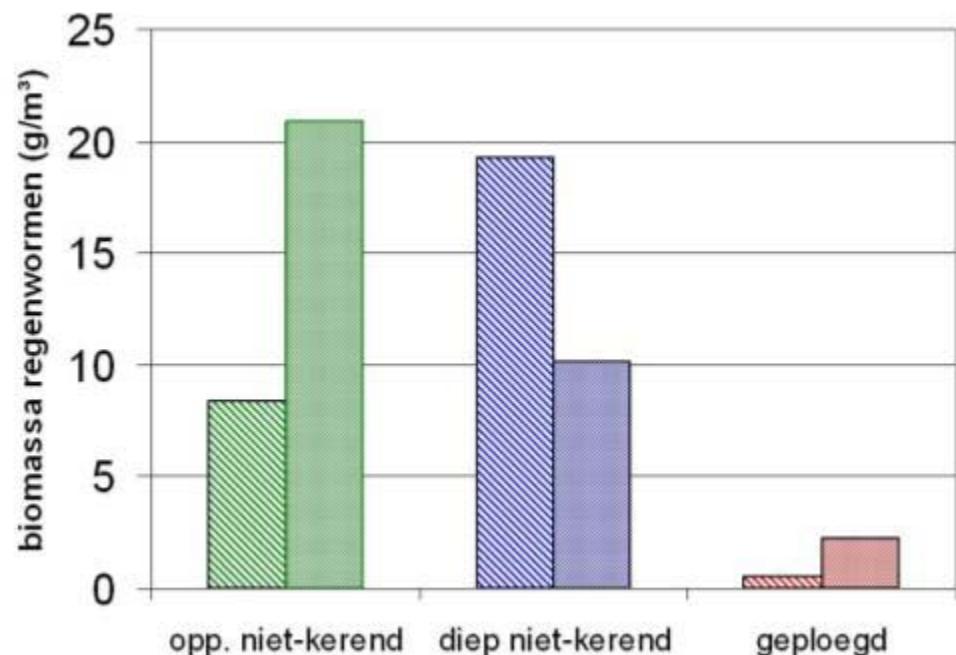
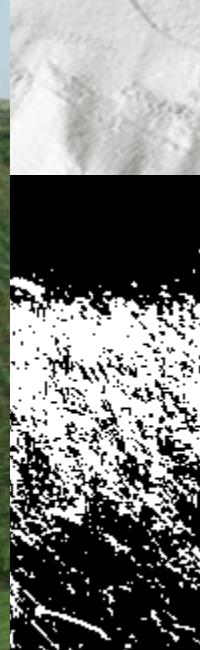
DEM

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conventional conservation





Thank you for your attention