



Prehistorische landschappen in onze Noordzee: een nooit eerder getoonde reis in de tijd

Maikel De Clercq

-

Universiteit Gent



Department of Geology
Research Group Renard Centre of Marine Geology

Eindconferentie SeArch project – Gent, 22 november 2016

This presentation contains a watermark due to preparations for scientific publication. Please do not use these images freely, ask the author for permission!

Deze presentatie bevat een watermerk ter voorbereiding van een wetenschappelijk artikel. Gebruik deze afbeeldingen enkel ter goedkeuring van de auteur!

For questions please mail to:
Bij vragen stuur naar:

Maikel.DeClercq@UGent.be

1. Landschapsreconstructies: 180.000 jaar - heden

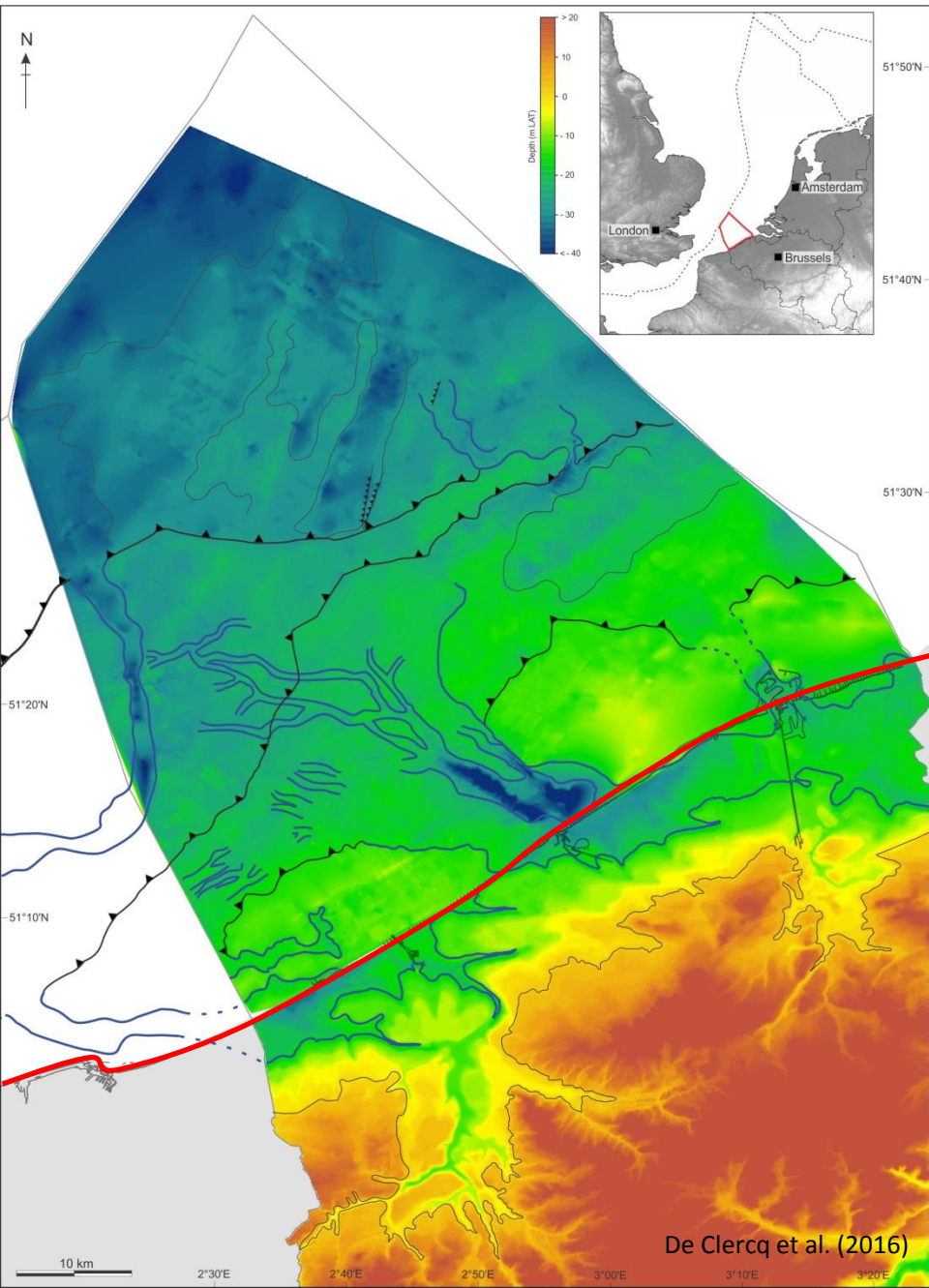
- *met focus op België en Nederland*
- *fossiele vondsten*

2. Wat is er bewaard gebleven van deze landschappen?

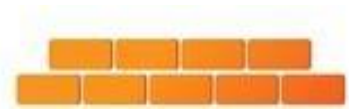
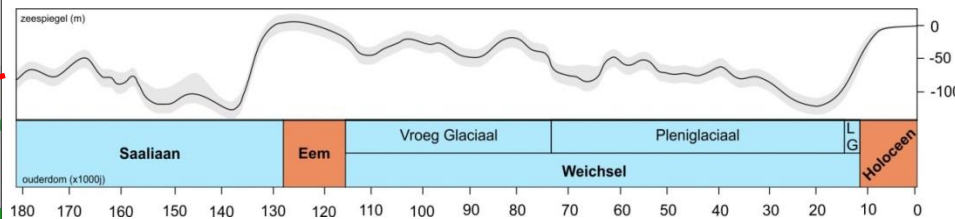
3. Waar zit het archeologisch potentieel?

4. Hoe het archeologisch potentieel in kaart brengen?

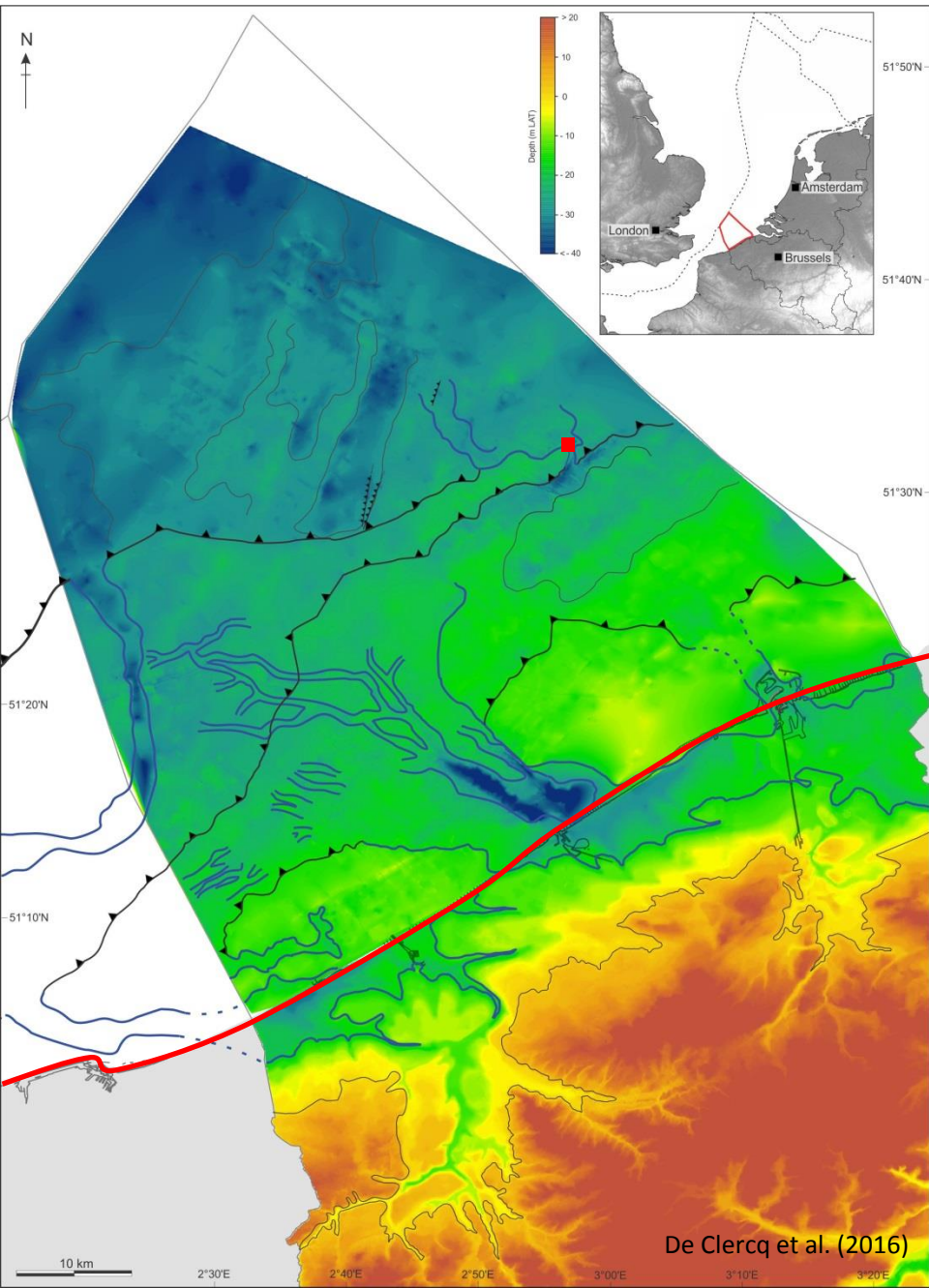
1. Landschapsreconstructie: Top-Paleogeen oppervlak



- Fundering van het landschap
- Sterk verbouwd
- Ijstijden en tussenijstijden
- Zeespiegelschommelingen



1. Landschapsreconstructie: Top-Paleogeen oppervlak



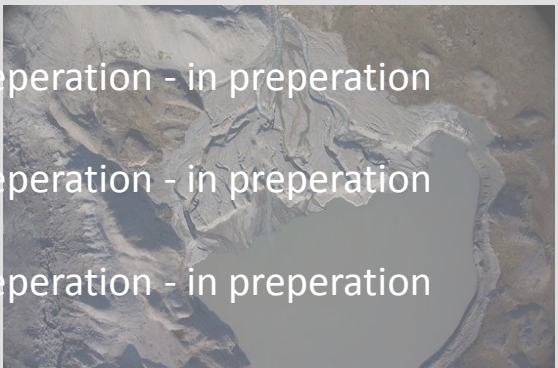
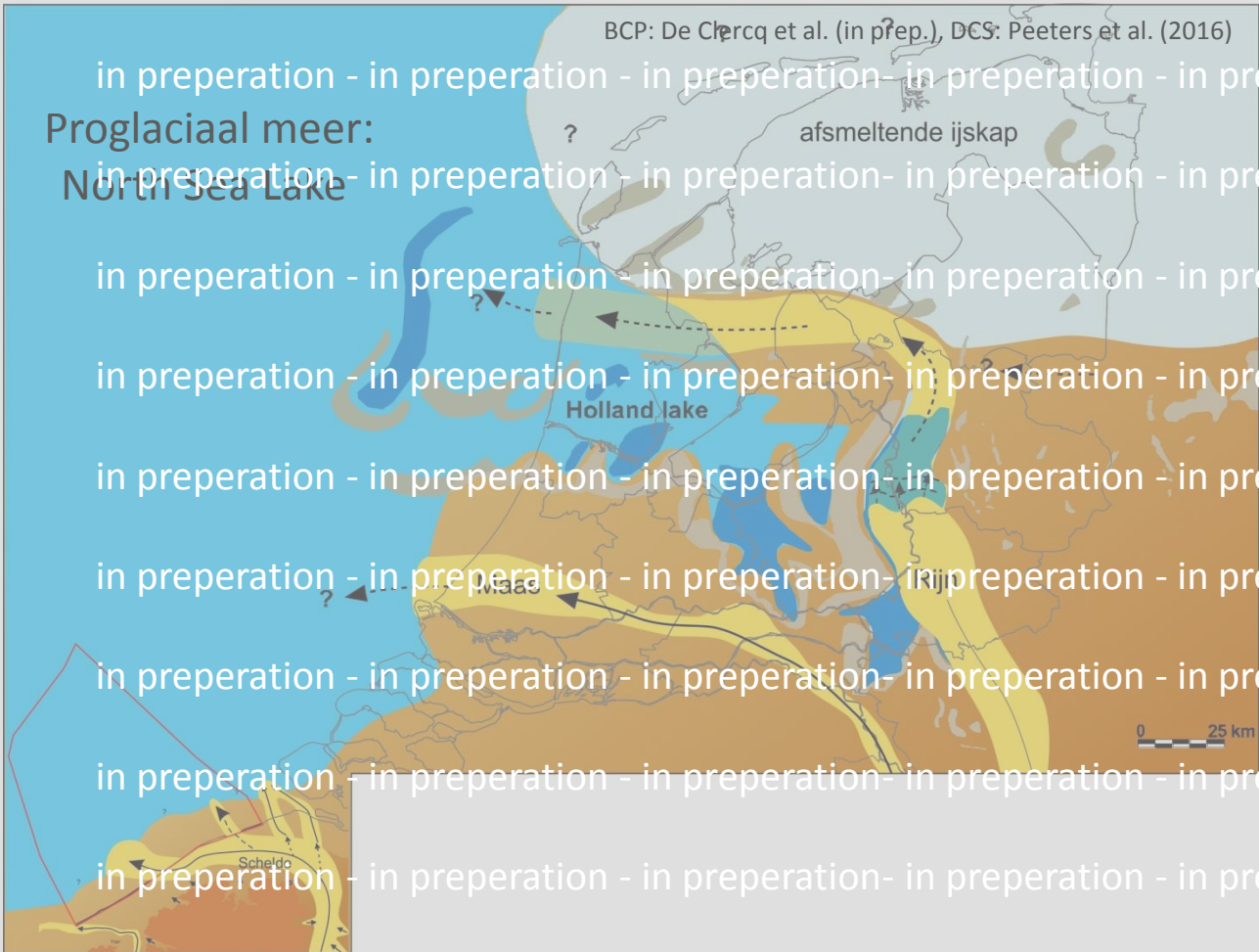
Fossielen 1.8 – 2.4 Ma



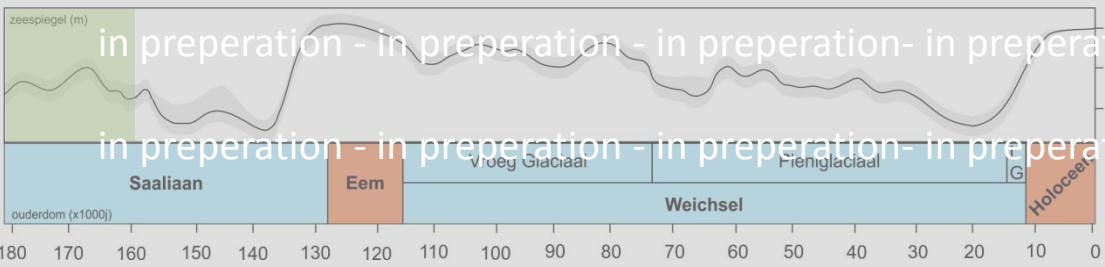
1. Landschapsreconstructie: Saale ijstijd

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

Proglaciaal meer:
North Sea Lake



in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

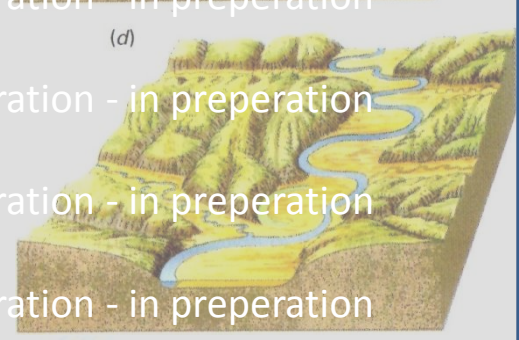
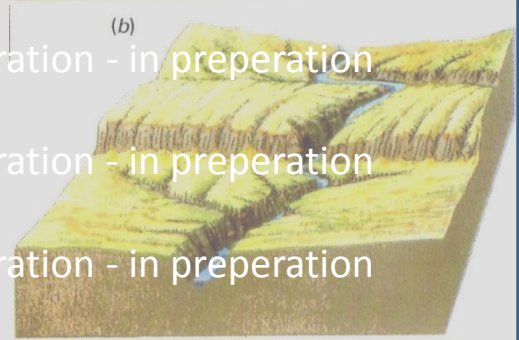
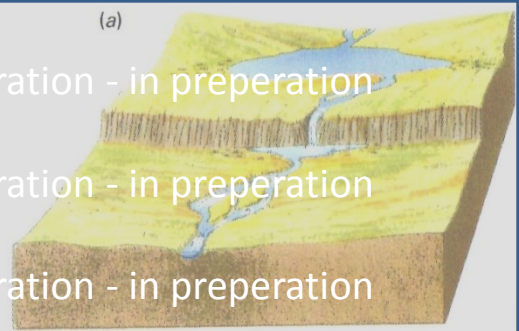


in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



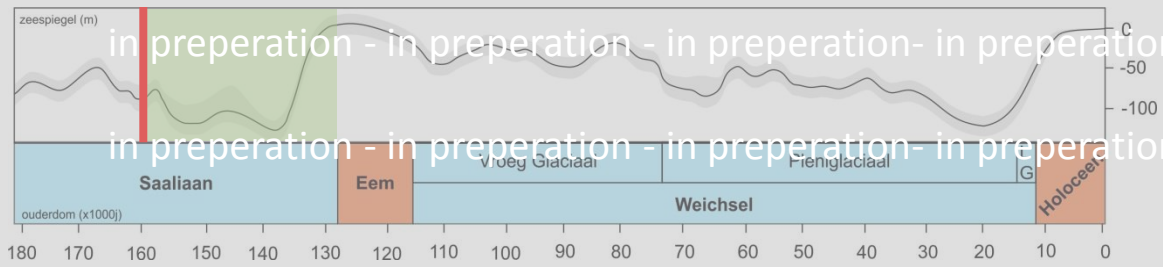
1. Landschapsreconstructie: Saale ijstijd

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

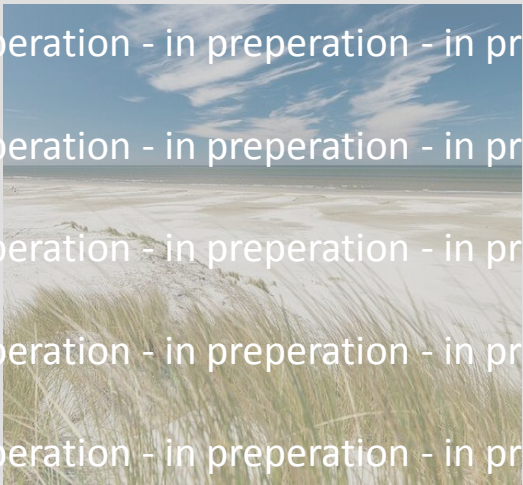


- Meer loopt leeg via het Kanaal
- Equivalent van zeespiegeldaling

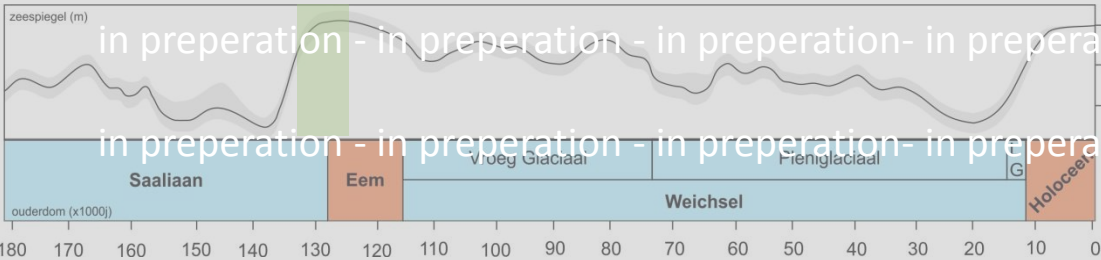
⇒ rivierinsijding



1. Landschapsreconstructie: Eem tussenijstijd

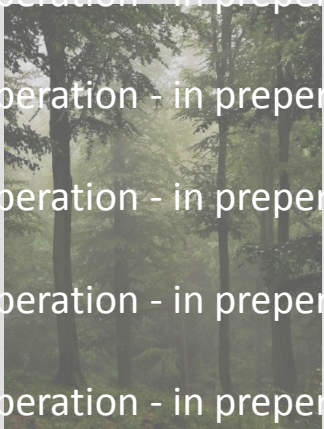
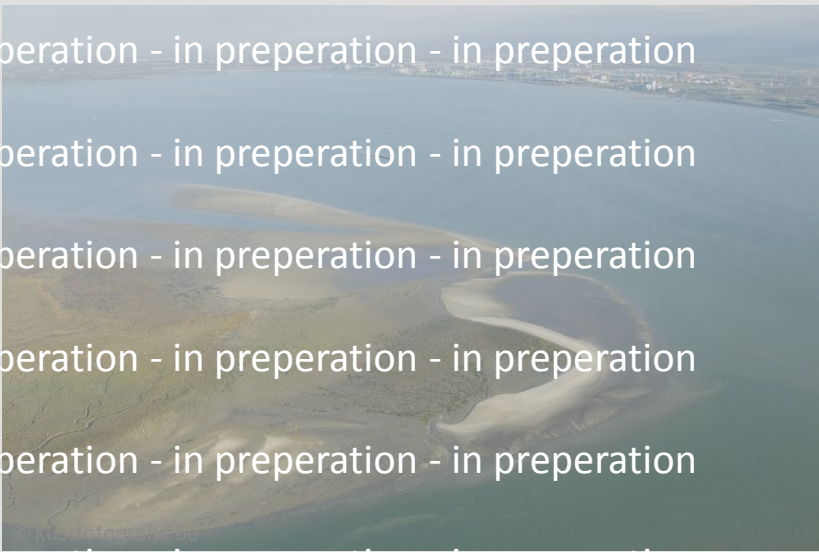


BCP “verdrinkt” in ca. 3000 jaar

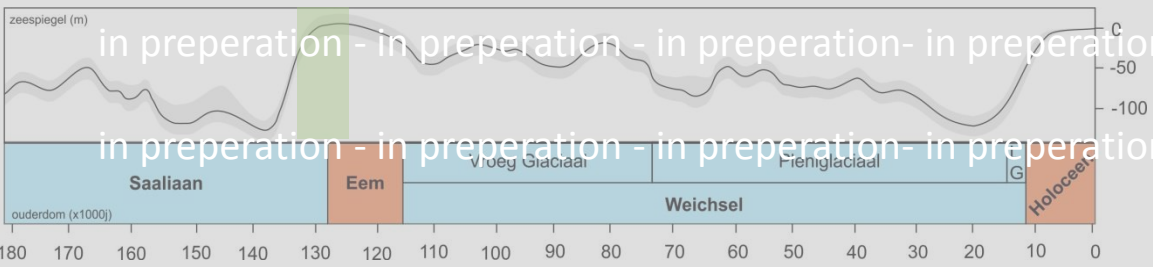


1. Landschapsreconstructie: Eem tussenijstijd

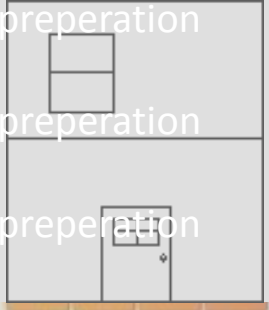
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation - in preperation



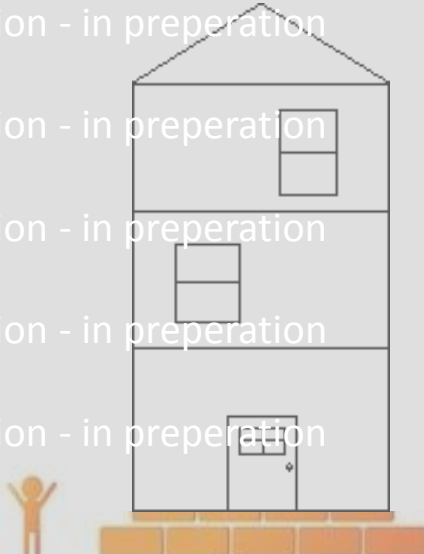
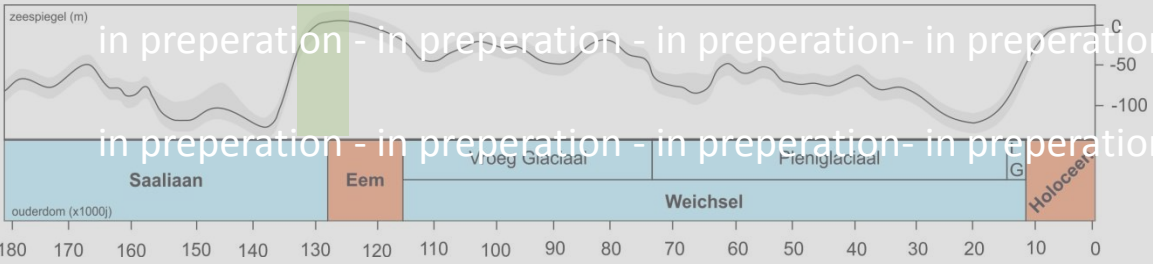
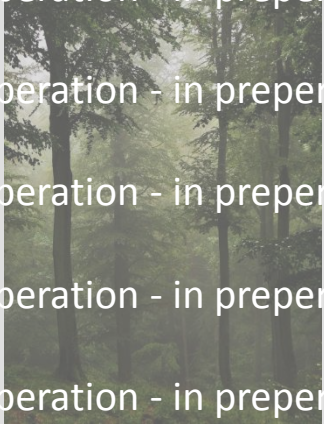
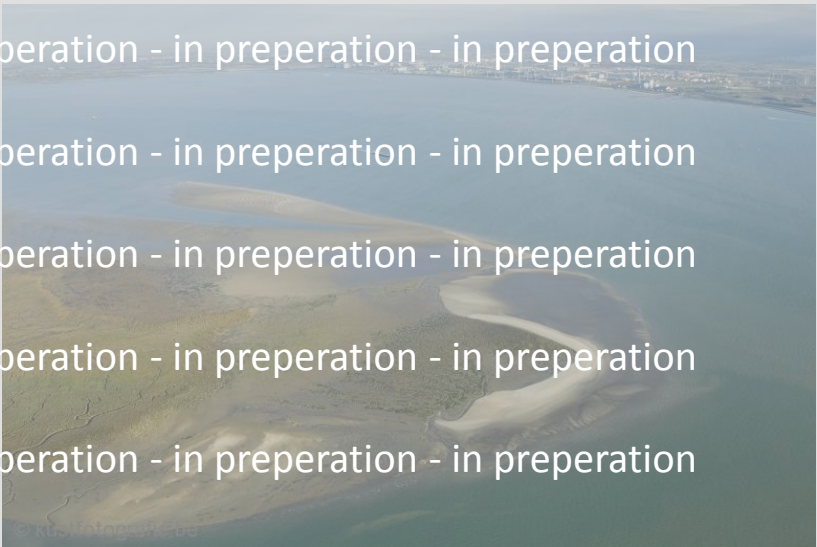
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation - in preperation



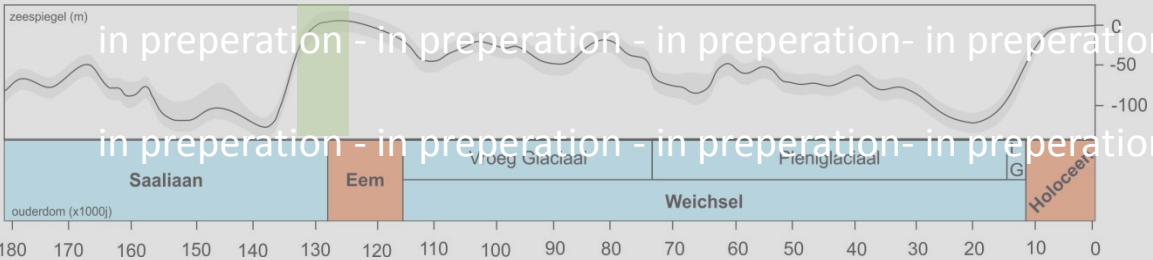
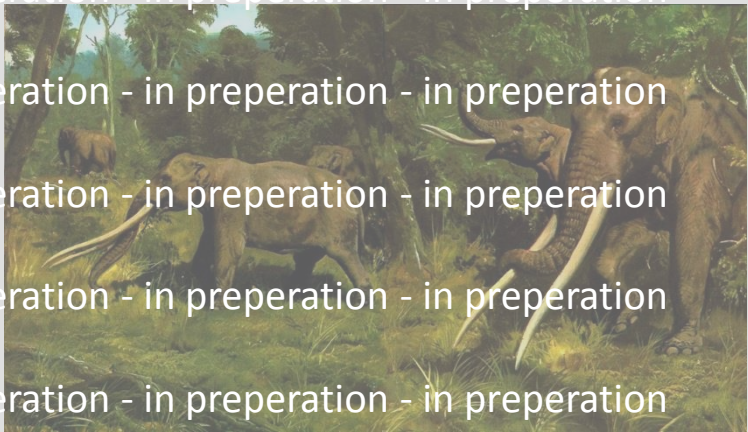
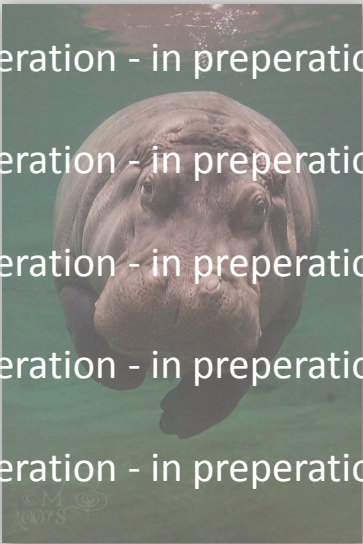
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation - in preperation



1. Landschapsreconstructie: Eem tussenijstijd



1. Landschapsreconstructie: Eem tussenijstijd



1. Landschapsreconstructie: Eem tussenijstijd

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

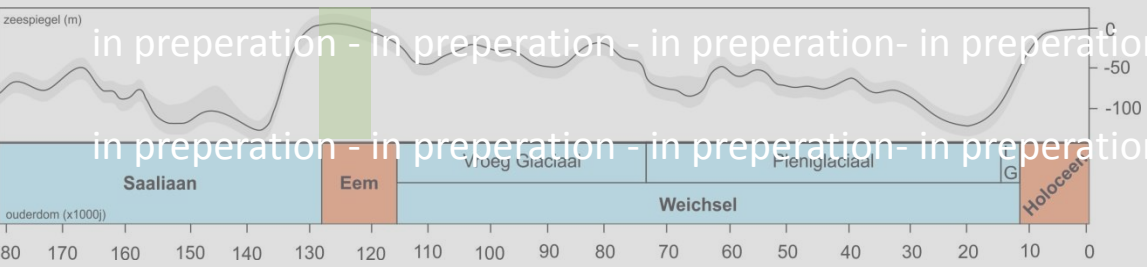
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

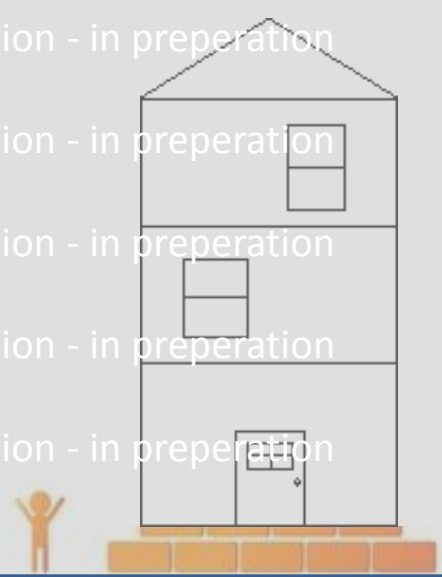
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



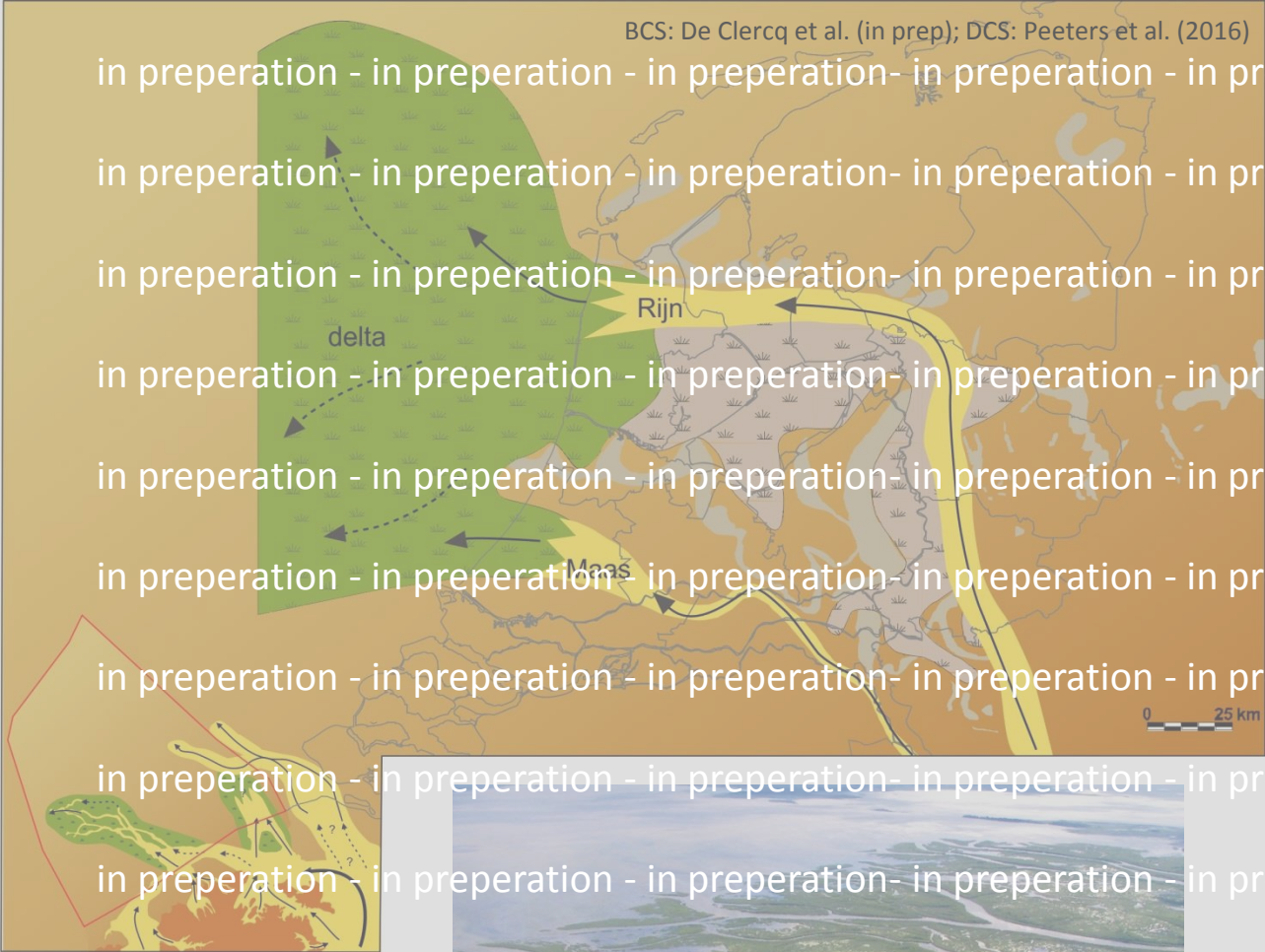
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



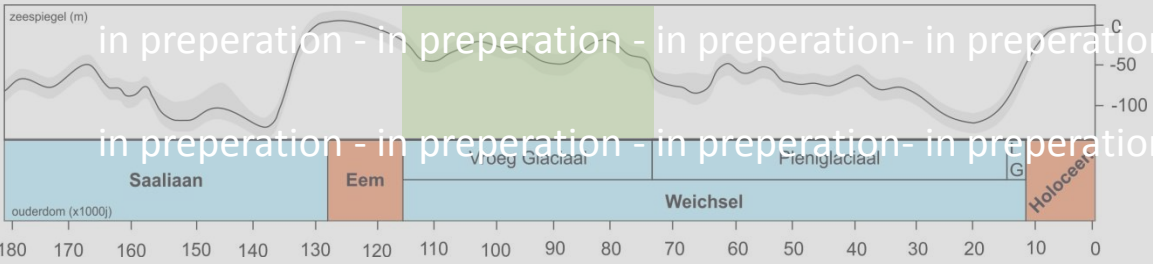
1. Landschapsreconstructie: Weichsel ijstijd: Vroeg Glaciaal

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

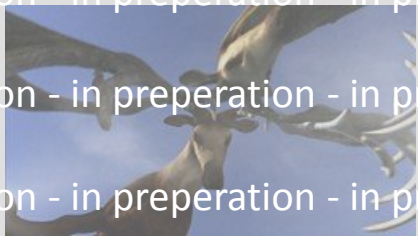
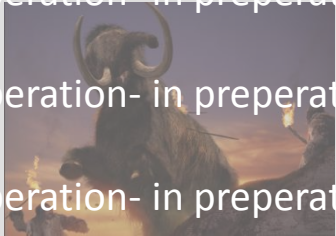
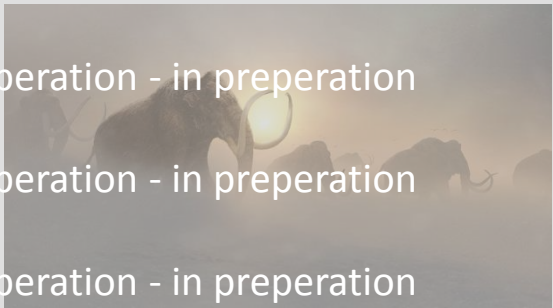


in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

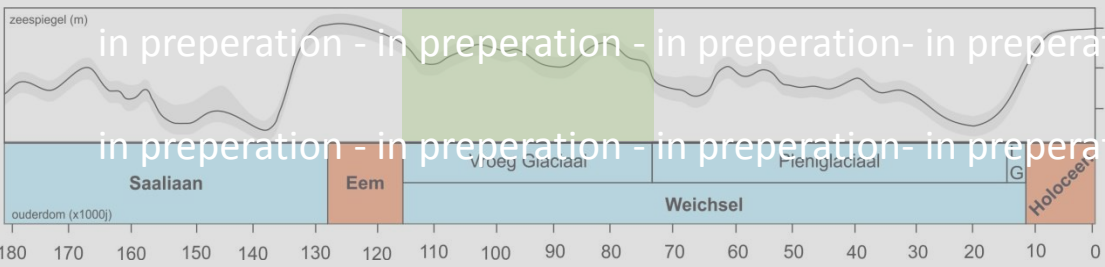


1. Landschapsreconstructie: Weichsel ijstijd: Vroeg Glaciaal

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation - in preperation



in preperation - in preperation - in preperation- in preperation - in preperation - in preperation - in preperation

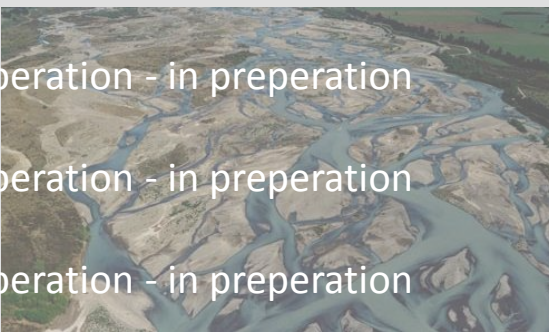


in preperation - in preperation - in preperation- in preperation - in preperation - in preperation - in preperation



1. Landschapsreconstructie: Weichsel ijstijd: Pleniglaciaal

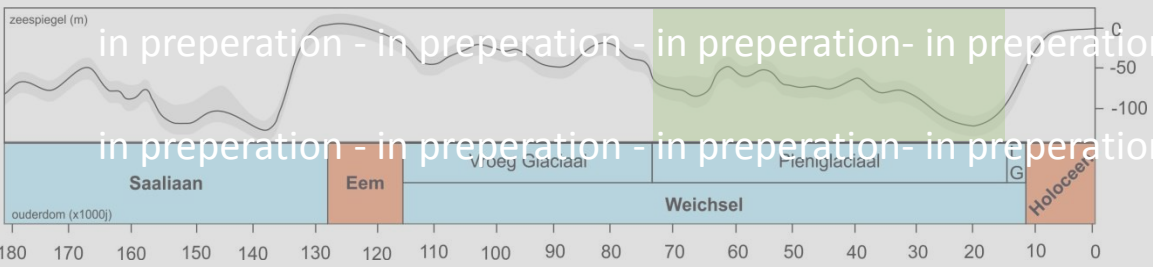
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



in preparation - in preparation - in preparation- in preparation - in preparation - in preparation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preparation - in preparation - in preparation - in preparation - in preparation - in preparation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation - in preperation - in preperation - in preperation

in preparation - in preparation - in preparation - in preparation - in preparation - in preparation

in preparation - in preparation - in preparation - in preparation - in preparation - in preparation

in preparation - in preparation - in preparation - in preparation - in preparation - in preparation

■ in preparation - in preparation - in preparation - in preparation - in preparation - in preparation

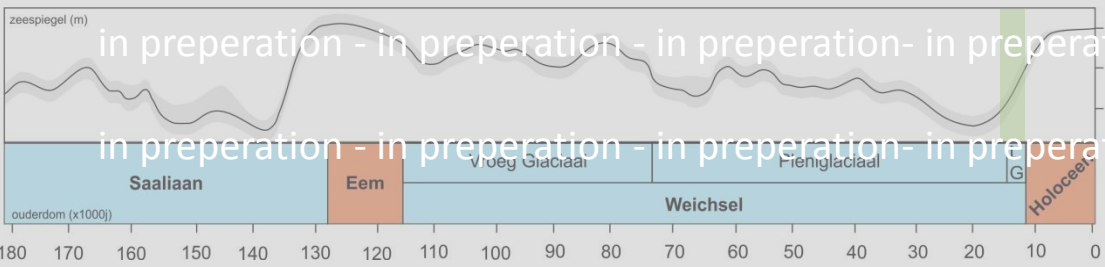
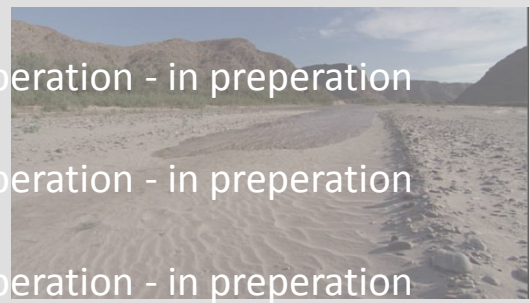
in preparation - in preparation - in preparation - in preparation - in preparation - in preparation

in preparation - in preparation - in preparation- in preparation - in preparation - in preparation

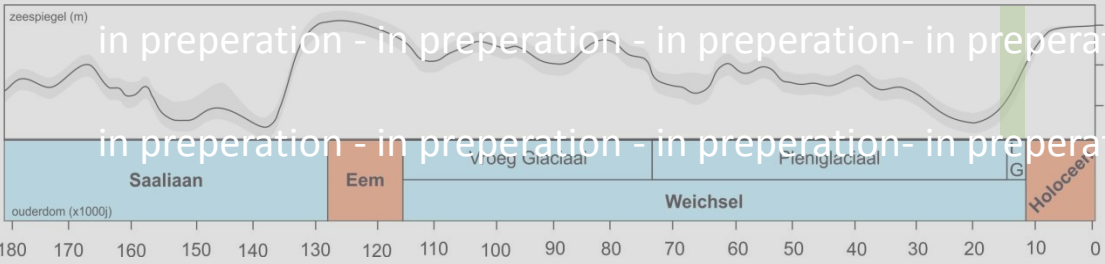
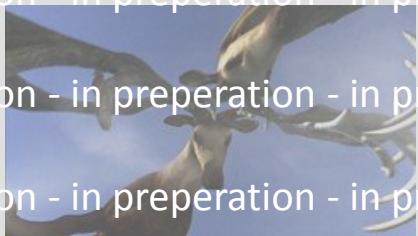
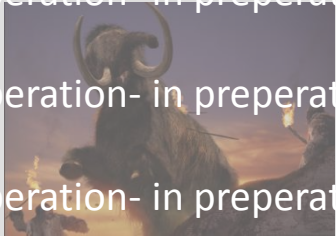
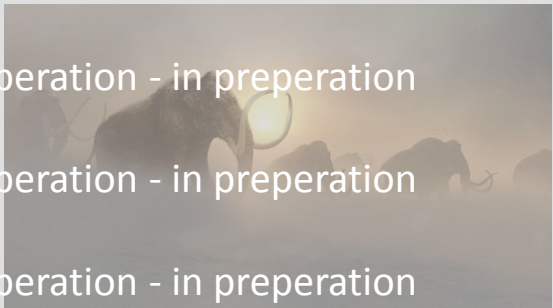
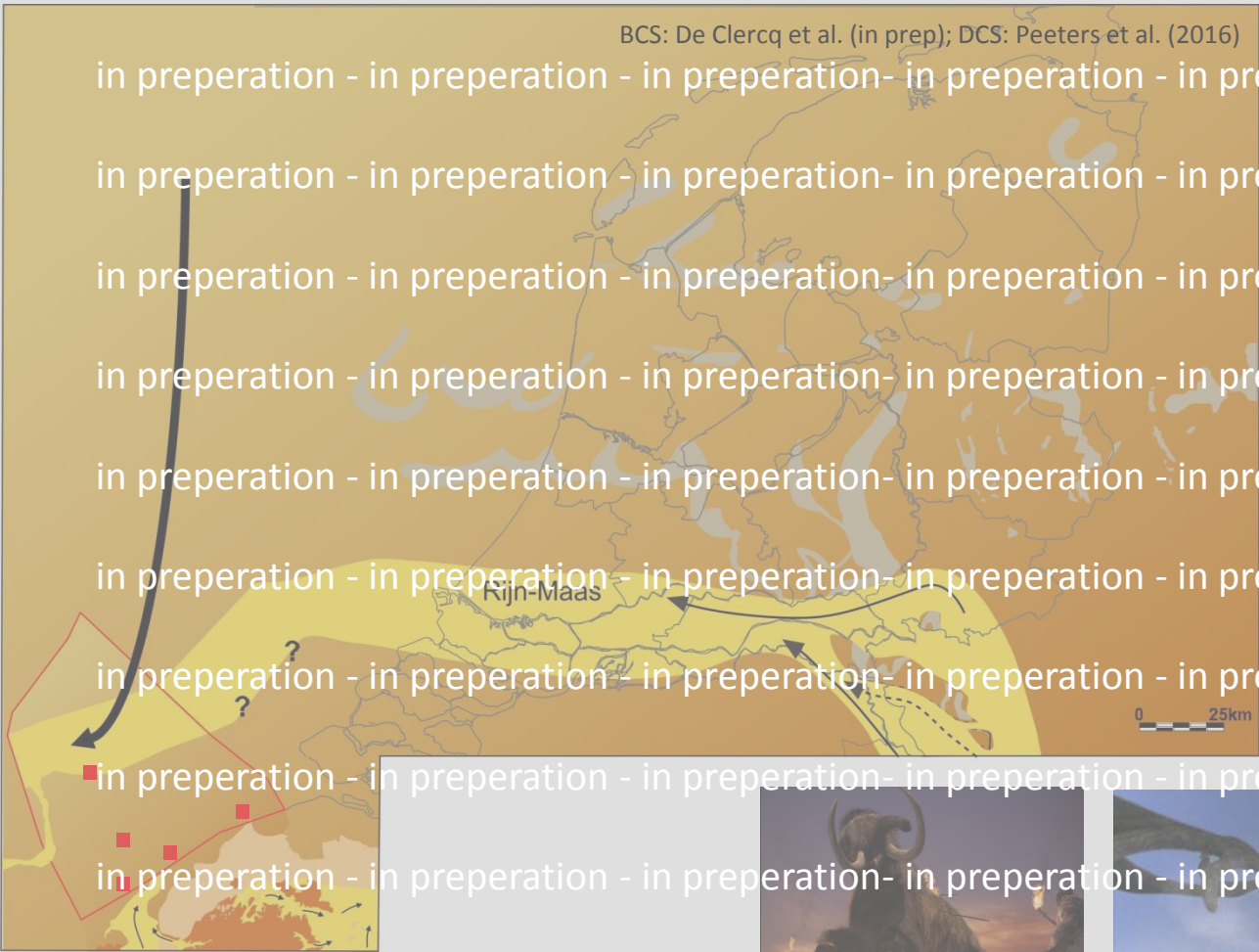
-in preparation -in preparation -in preparation-in preparation -in preparation -in preparation



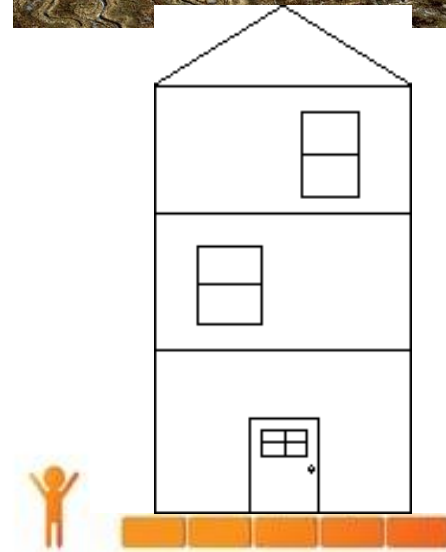
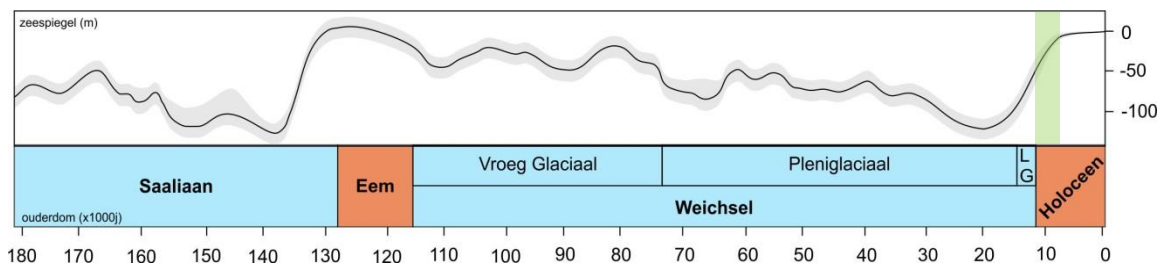
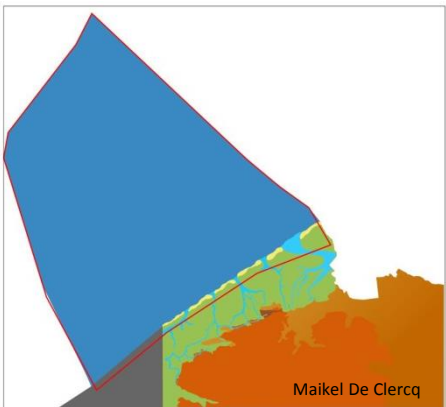
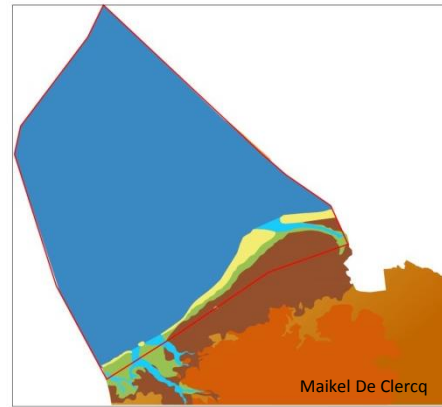
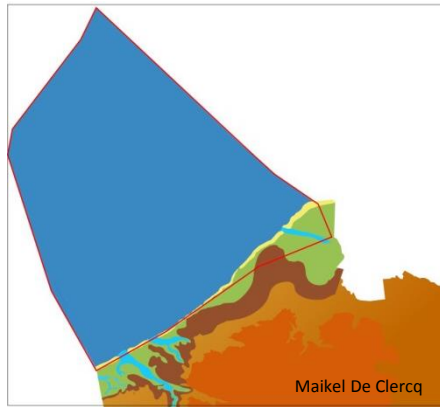
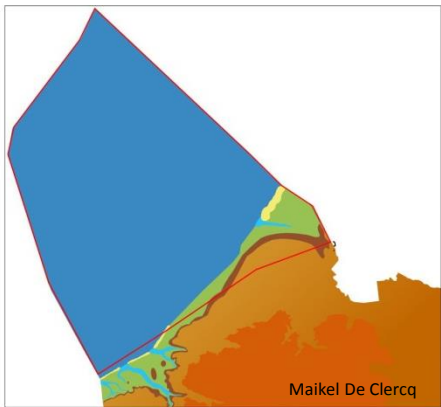
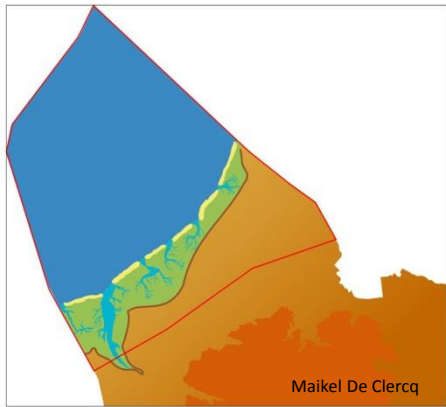
1. Landschapsreconstructie: Weichsel ijstijd: Laat Glaciaal



1. Landschapsreconstructie: Weichsel ijstijd: Laat Glaciaal

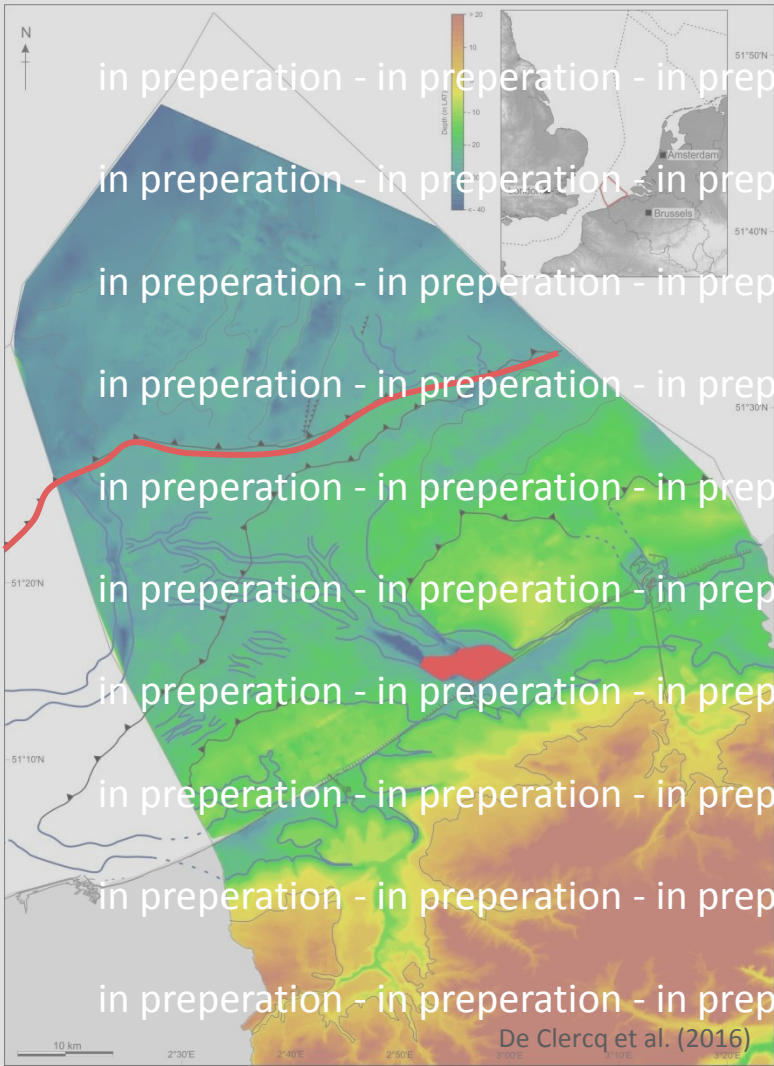


1. Landschapsreconstructie: Holoceen tussenijstijd

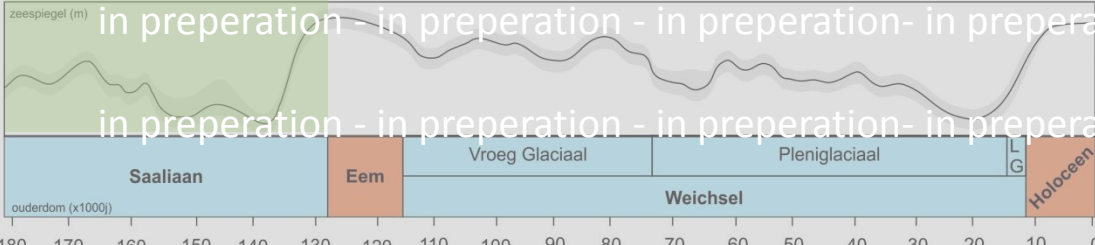
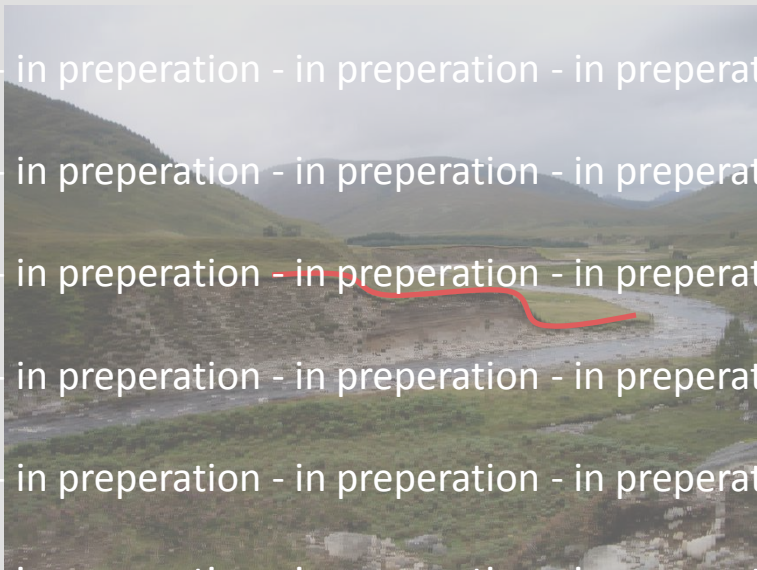


2. Wat is er bewaard gebleven en waar?

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



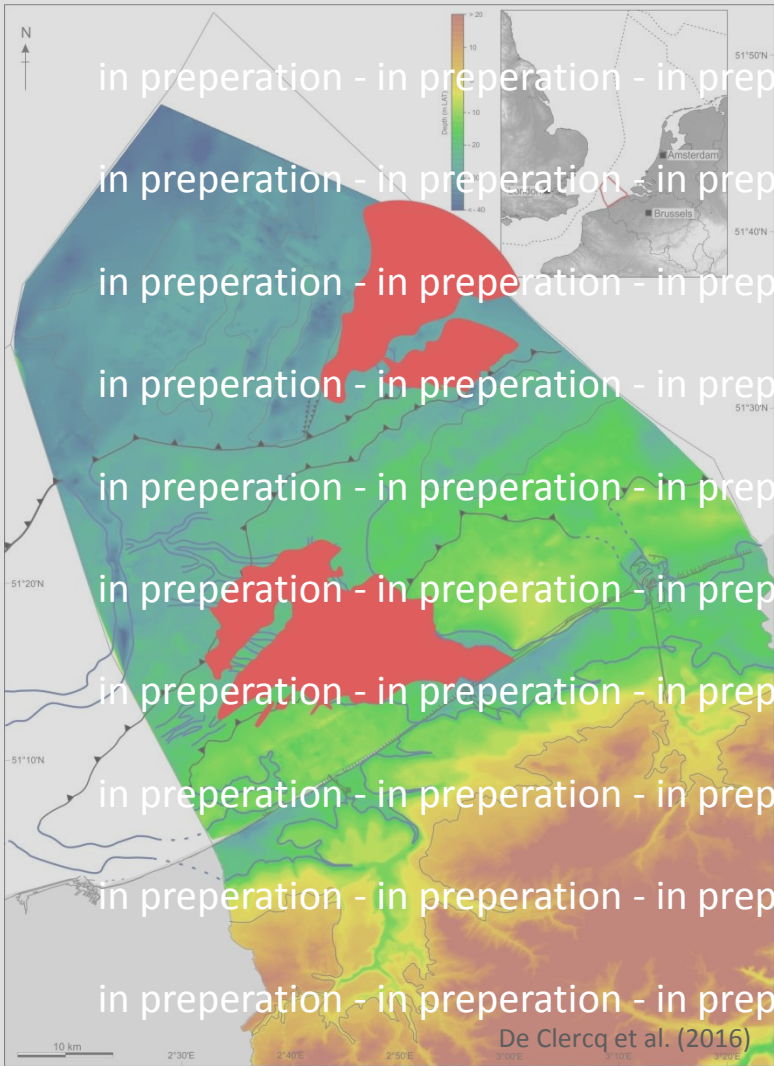
- Rivierterras: Maas en later ook de Rijn
- Rivierafzettingen Schelde



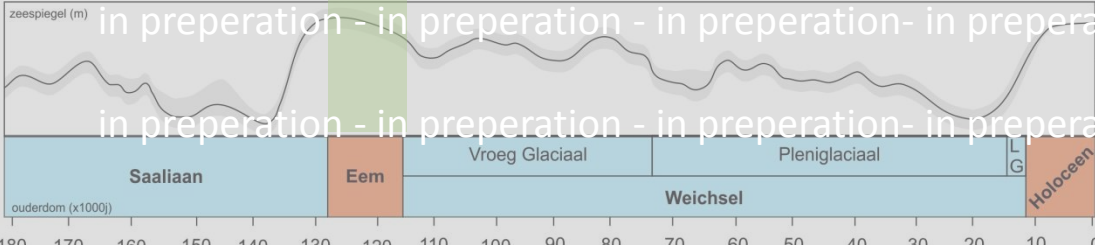
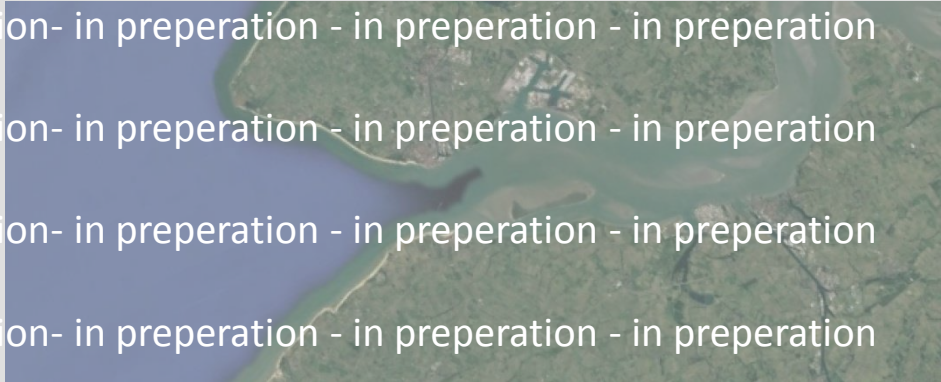
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

2. Wat is er bewaard gebleven en waar?



- Estuarien en ondiep marien - kustnabij



2. Wat is er bewaard gebleven en waar?

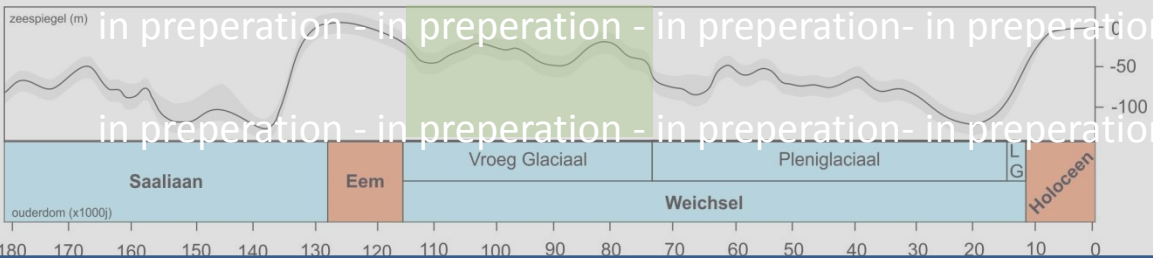
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



- Rivierafzettingen



in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

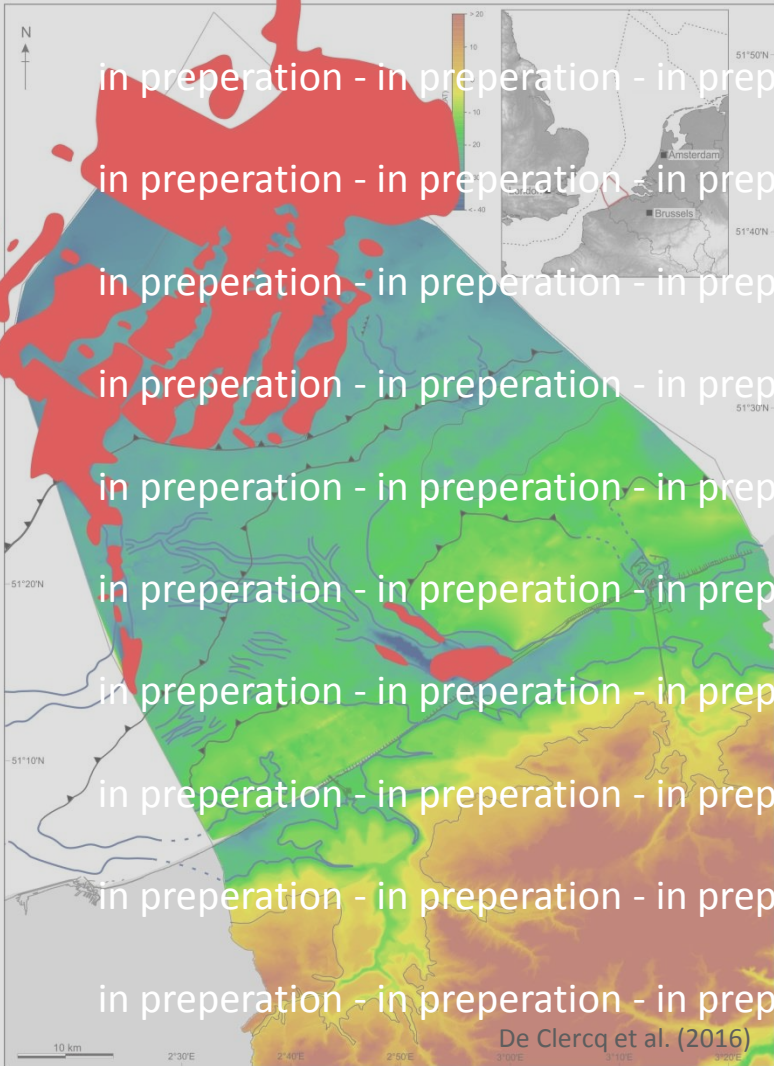


in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

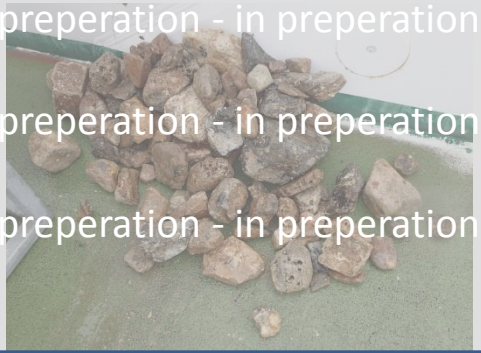
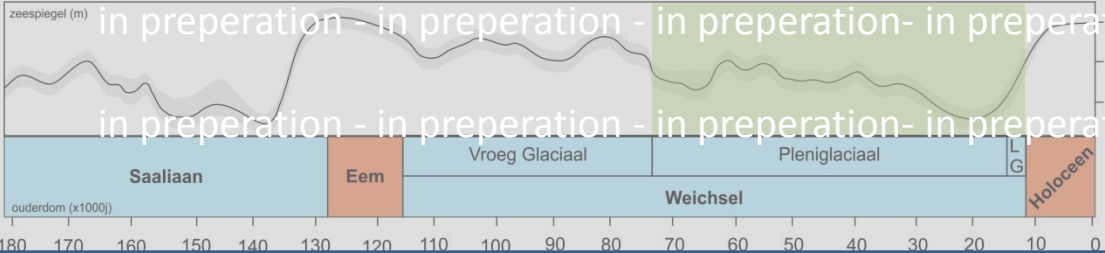
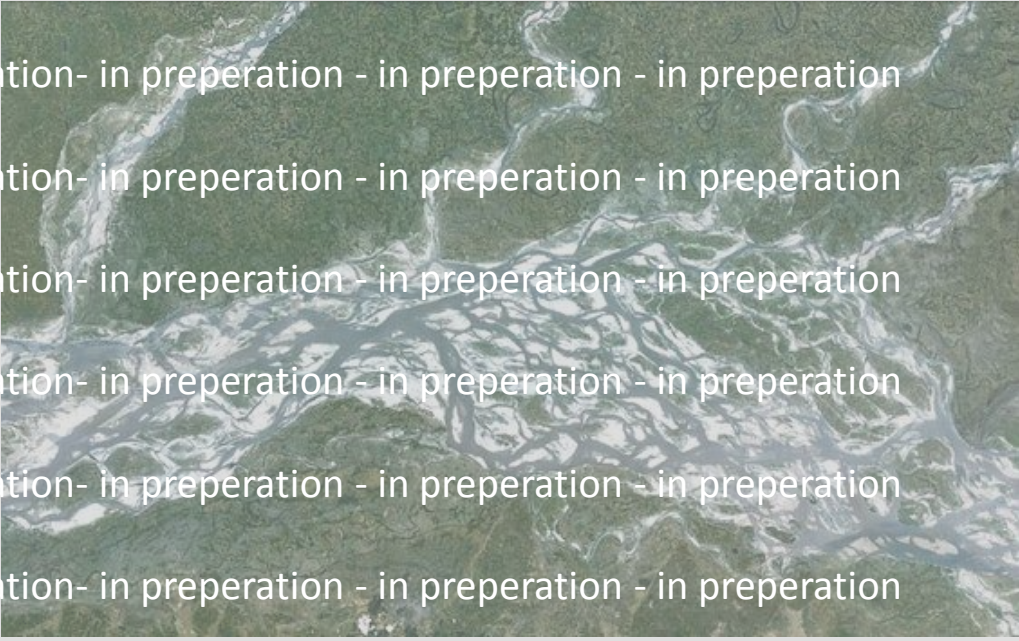
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

2. Wat is er bewaard gebleven en waar?

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



- Verwilderde rivierafzettingen



in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

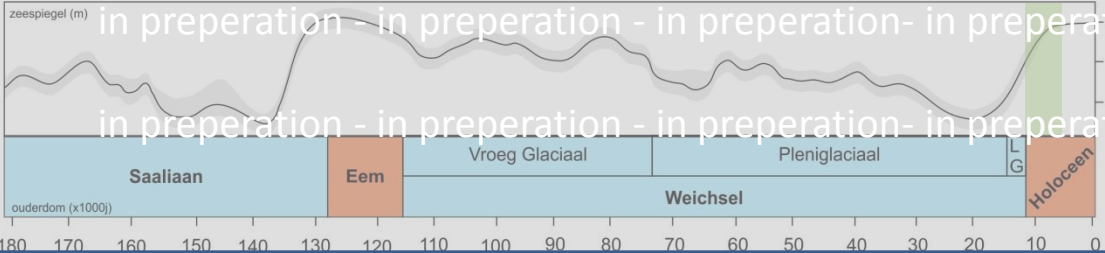
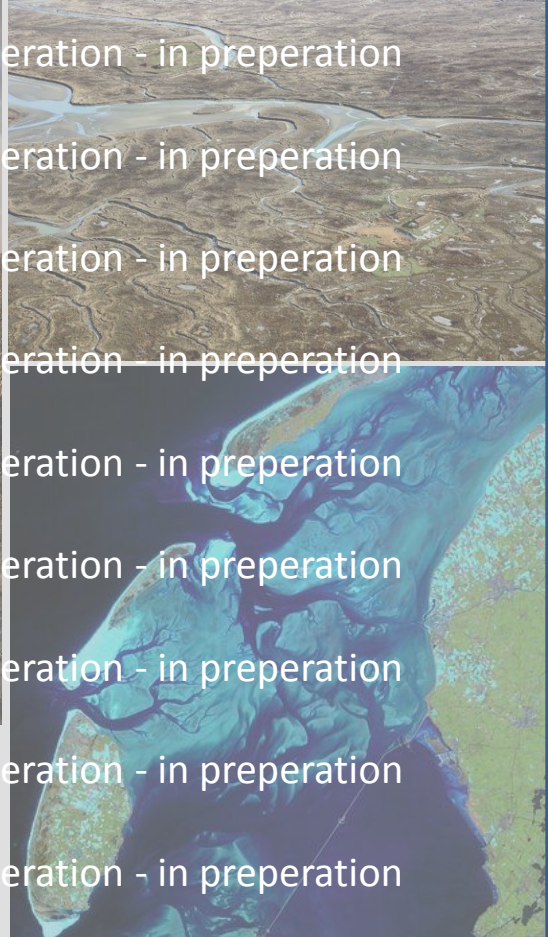
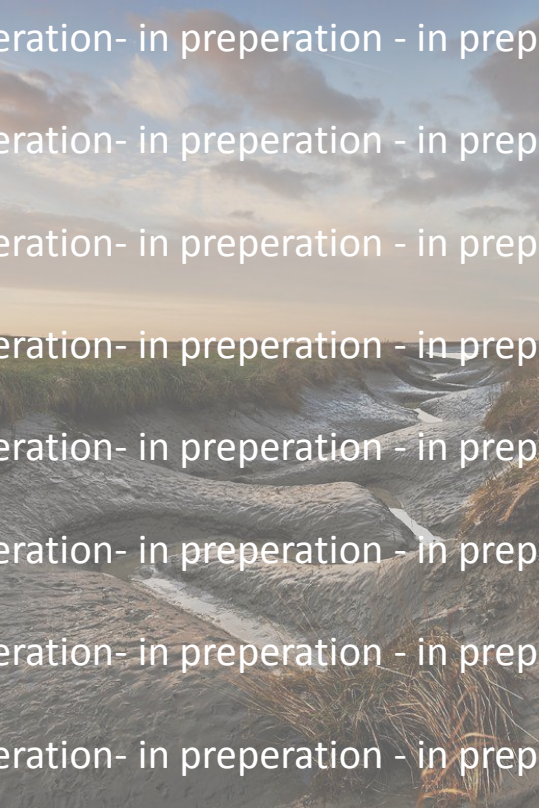
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

2. Wat is er bewaard gebleven en waar?

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



- **Getijdenvlaktes**

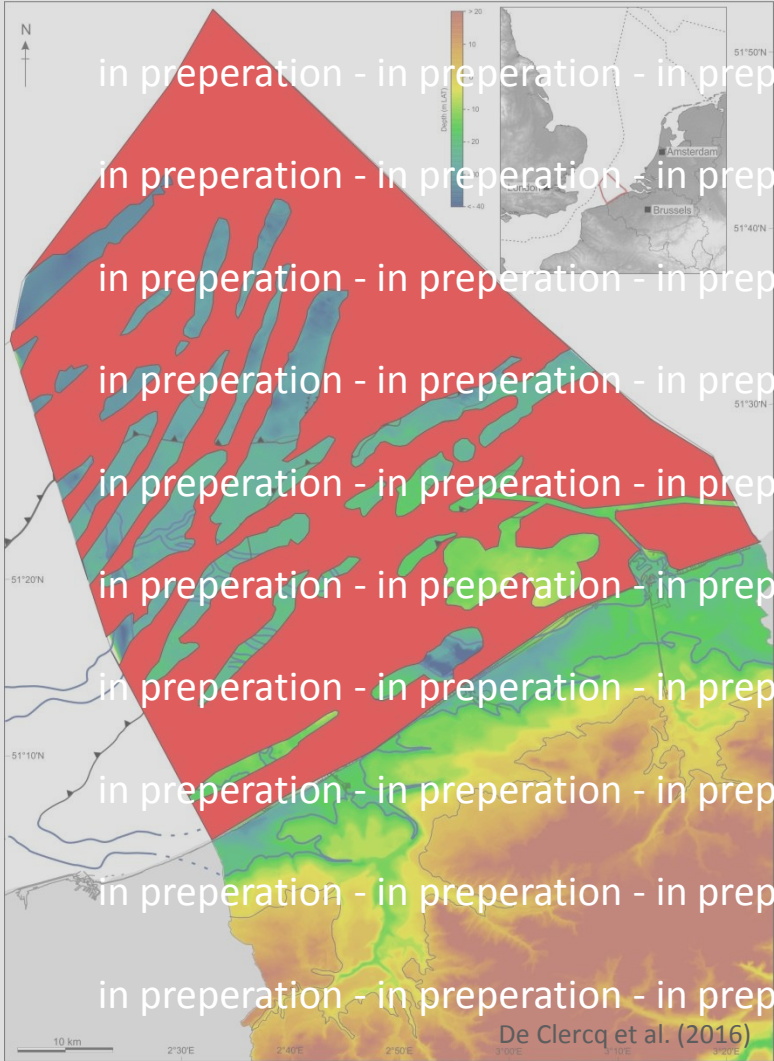


in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

2. Wat is er bewaard gebleven en waar?

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



- Mariene afzettingen

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

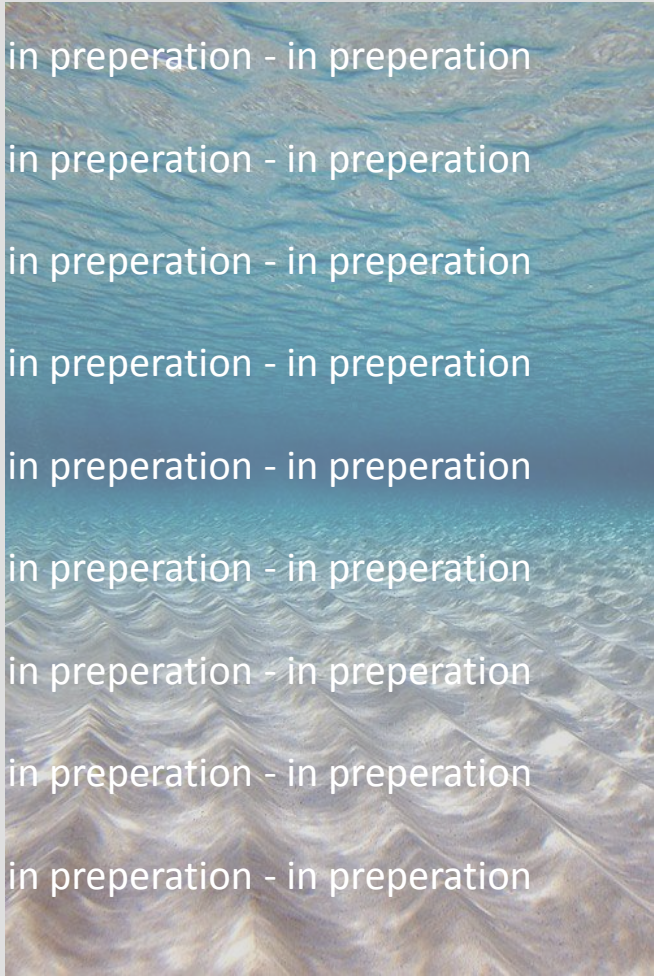
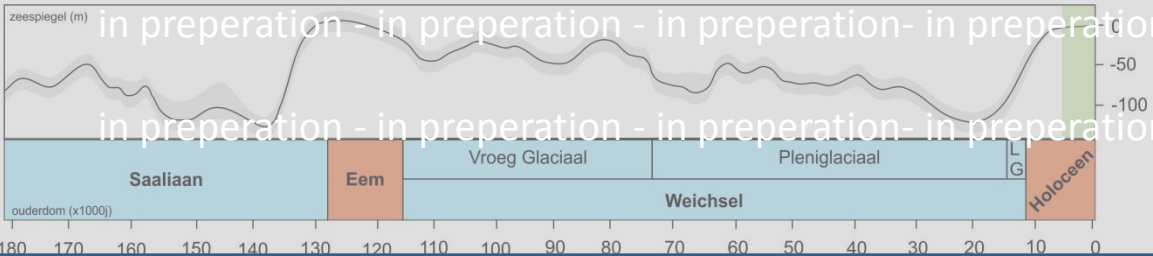
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

3. Waar zit het archeologisch potentieel?

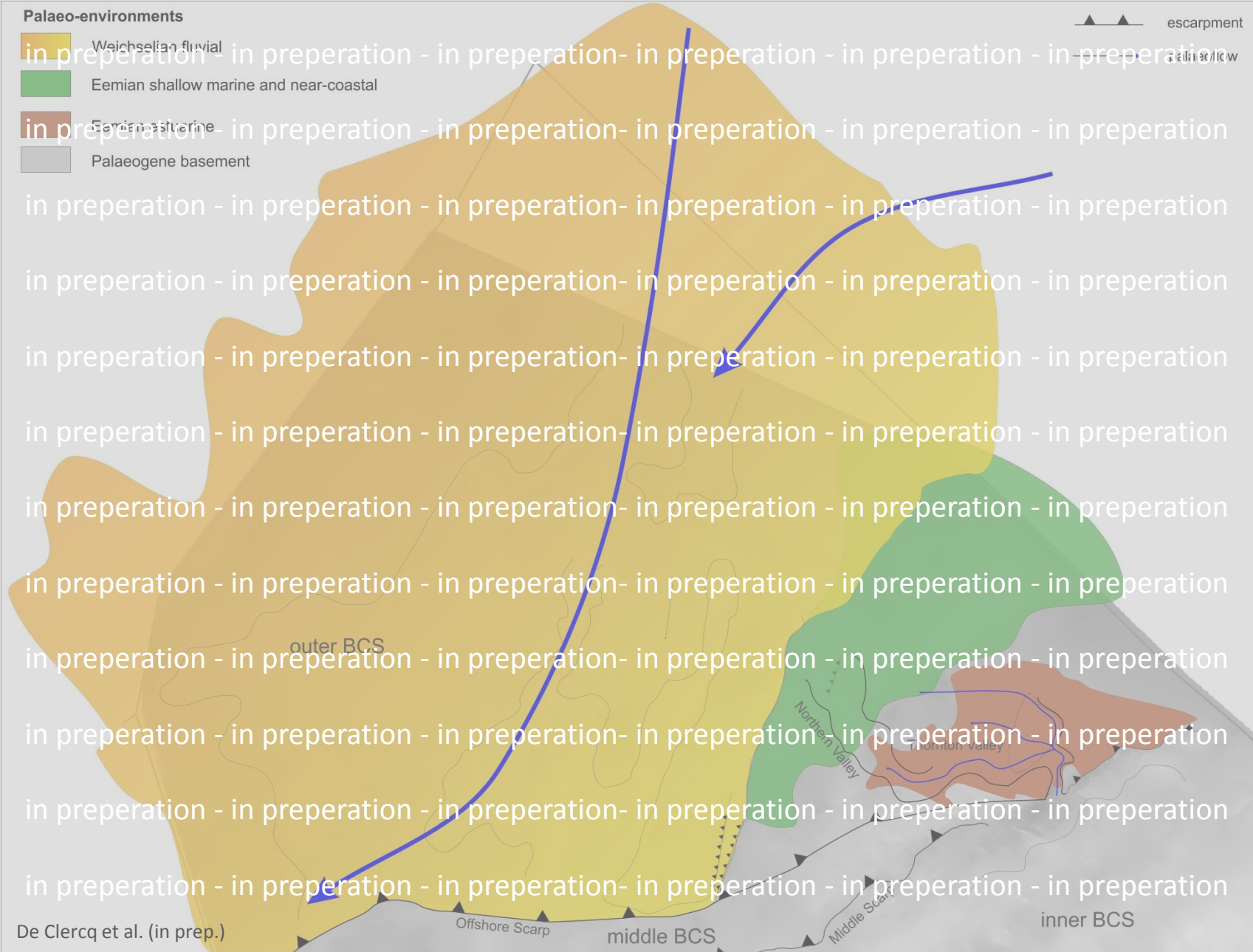
- Bepalen archeologisch potentieel is een grote uitdaging
 - Kwaliteitslabel bewaarde landschappen

Vraag: Wat is bv. de kans dat OCE bewaard blijft in rivierafzettingen?

- Een landschap is opgebouwd uit kleinere milieus elk met een ander potentieel
- Wat is het cumulatief effect van “opgestapelde” landschappen ?
- Mate van natuurlijke bescherming door afdekking (bv zandbanken)?
- Wat met herwerkt materiaal?

4. Voorbeeld: noordelijk deel van het BCP; estuarien + rivierenlandschap

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



4. Archeologische potentieelkaart: work in progress

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



4. Archeologische potentieelkaart: work in progress

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

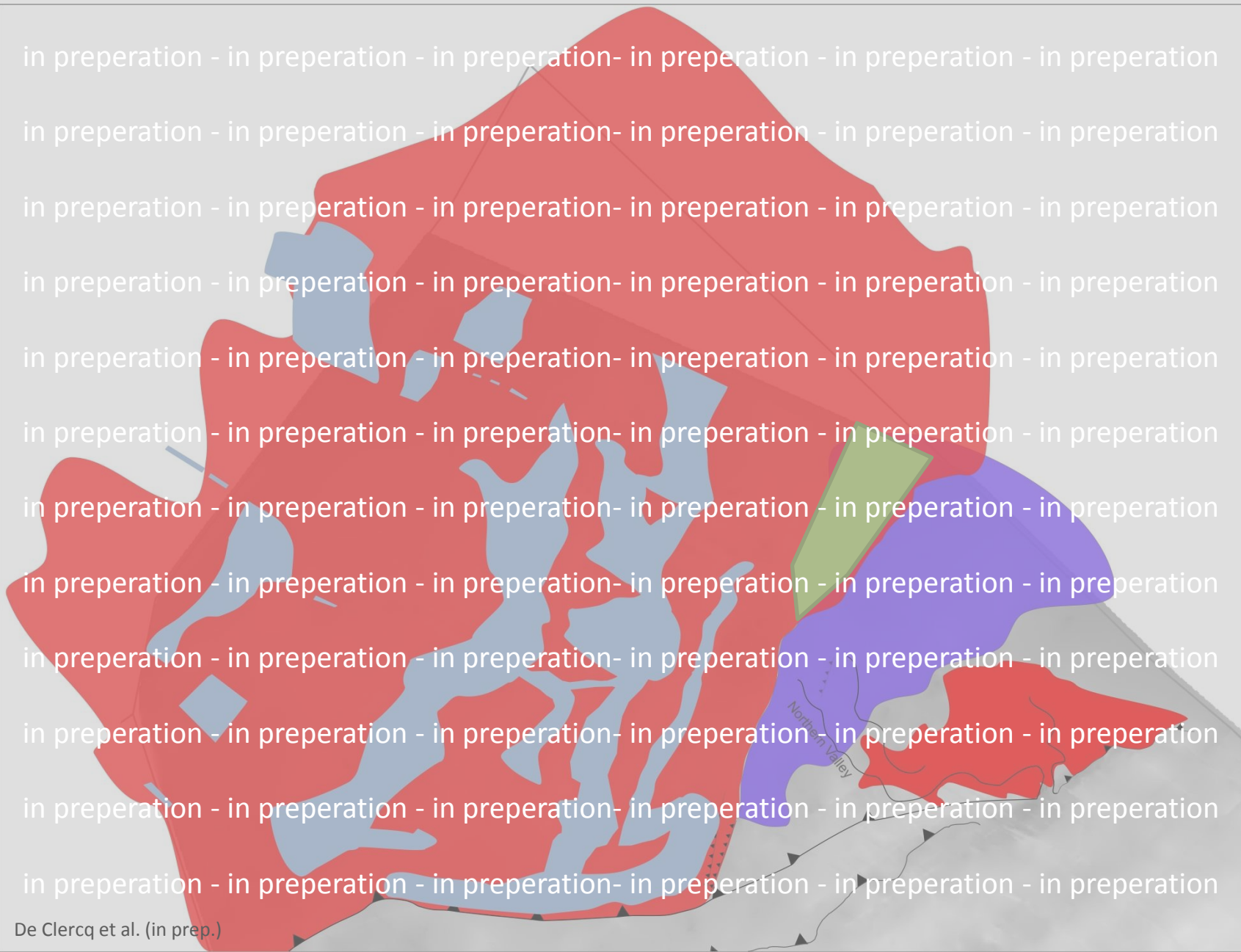
in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation



4. Archeologische potentieelkaart: work in progress

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

in preperation - in preperation - in preperation- in preperation - in preperation - in preperation

