Undersøgelser af

REWILDING

Med miljøDNA

Emil Sloth Thomassen
PhD Studerende
Biologi, Aarhus Universitet
eet@bio.au.dk


Query: ATCGGATATG
Taxon 1: ATCCCTGATG
Taxon 2: ACCTGTAGTA
Taxon 3: ATCGGACATG

Lokal

National / Regional

Pilotprojekt

Sæsonvariation I diæt og fauna

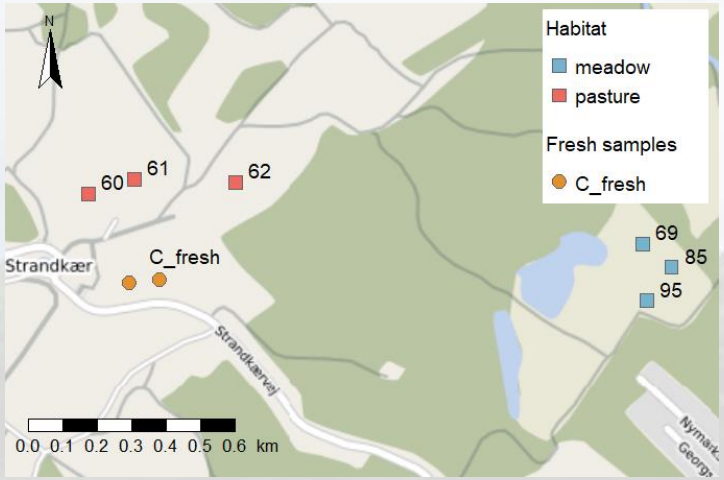
Succession af lorte-tilknyttede leddyr

Effekter af forvaltningstiltag

Samspil mellem planteædere på større skala

Philip Francis Thomsen
Lektor

Succession af lorte-tilknyttede leddyr



Frisk lort indsamlet fra Molslaboratoriet

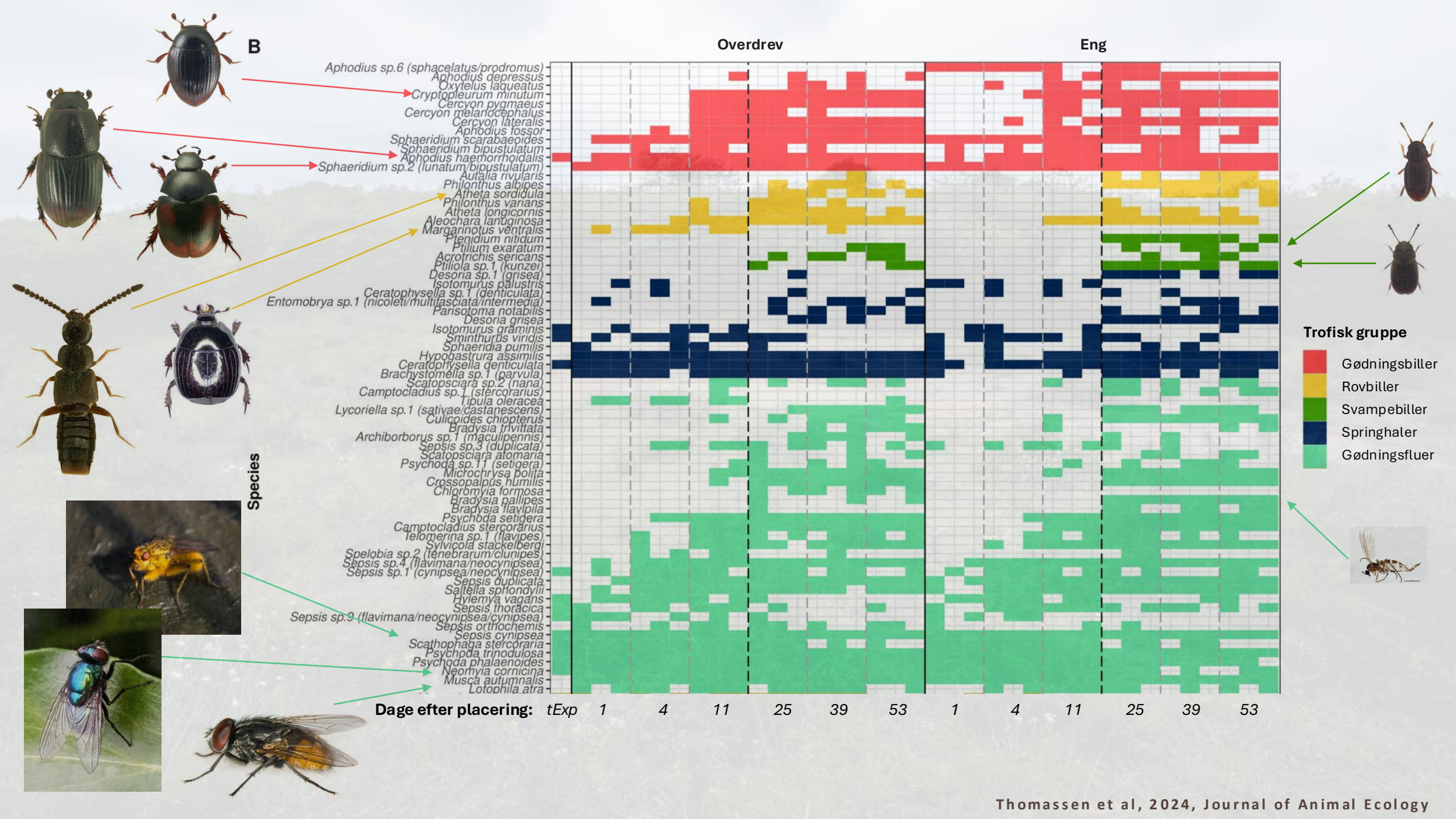
Homogeniseret og delt I 18 x 3 kgs "lorte"

Udlagt I 6 plots (3 i hver)

Prøver indsamlet til DNA analyse efter 1, 4, 11, 25, 39 og 53 dage

Evaluering af leddyr's tilstedeværelse gennem lortens succession

Thomassen et al, 2024, Journal of Animal Ecology



Thomassen et al, 2024, Journal of Animal Ecology

Januar → December

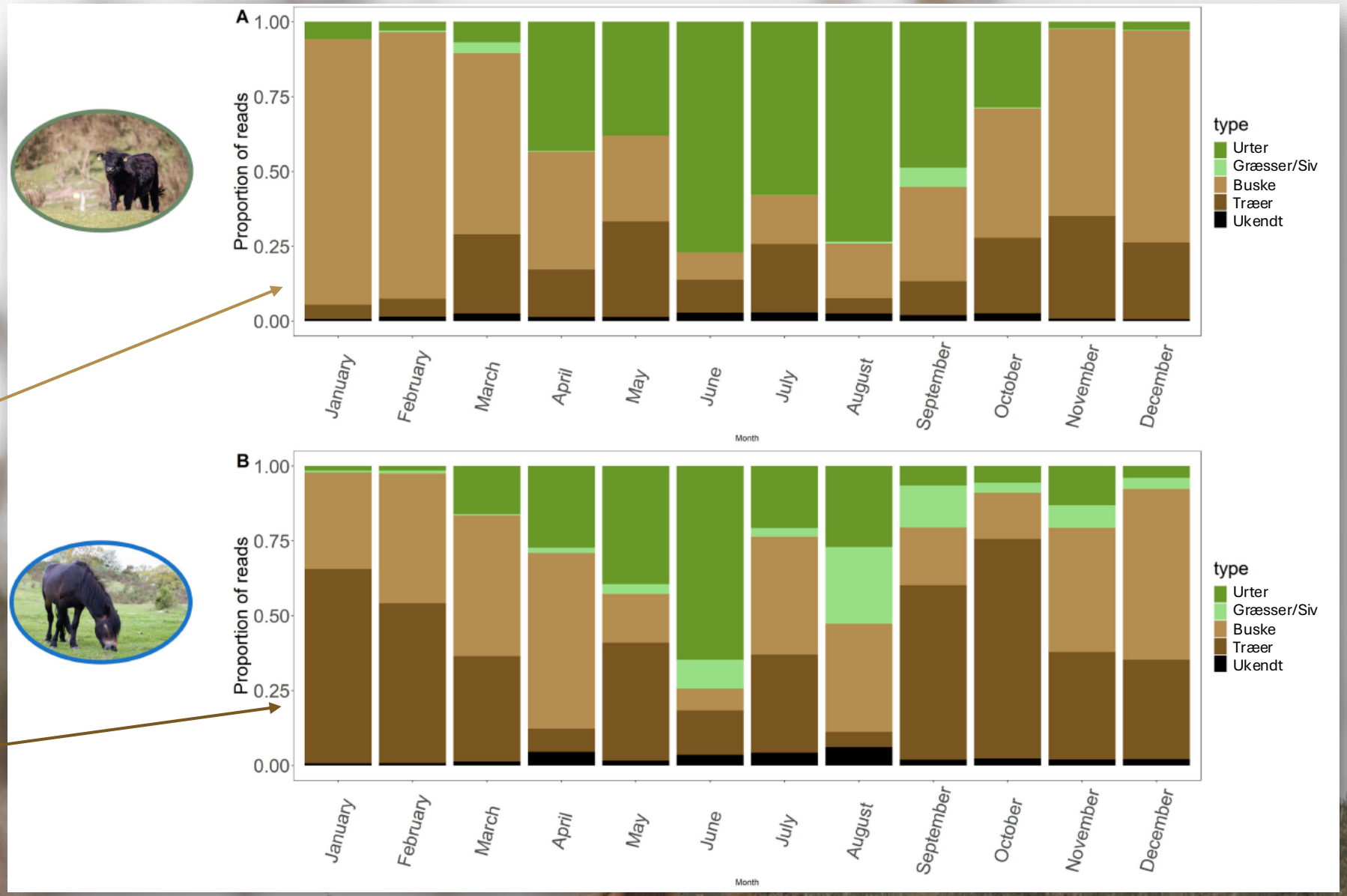
Prøver fra 10 heste og 10 køer

DNA analyse – planter (diæt) og leddyr (gødningsfauna)

Evaluering af effekter på vegetation og biodiversitet

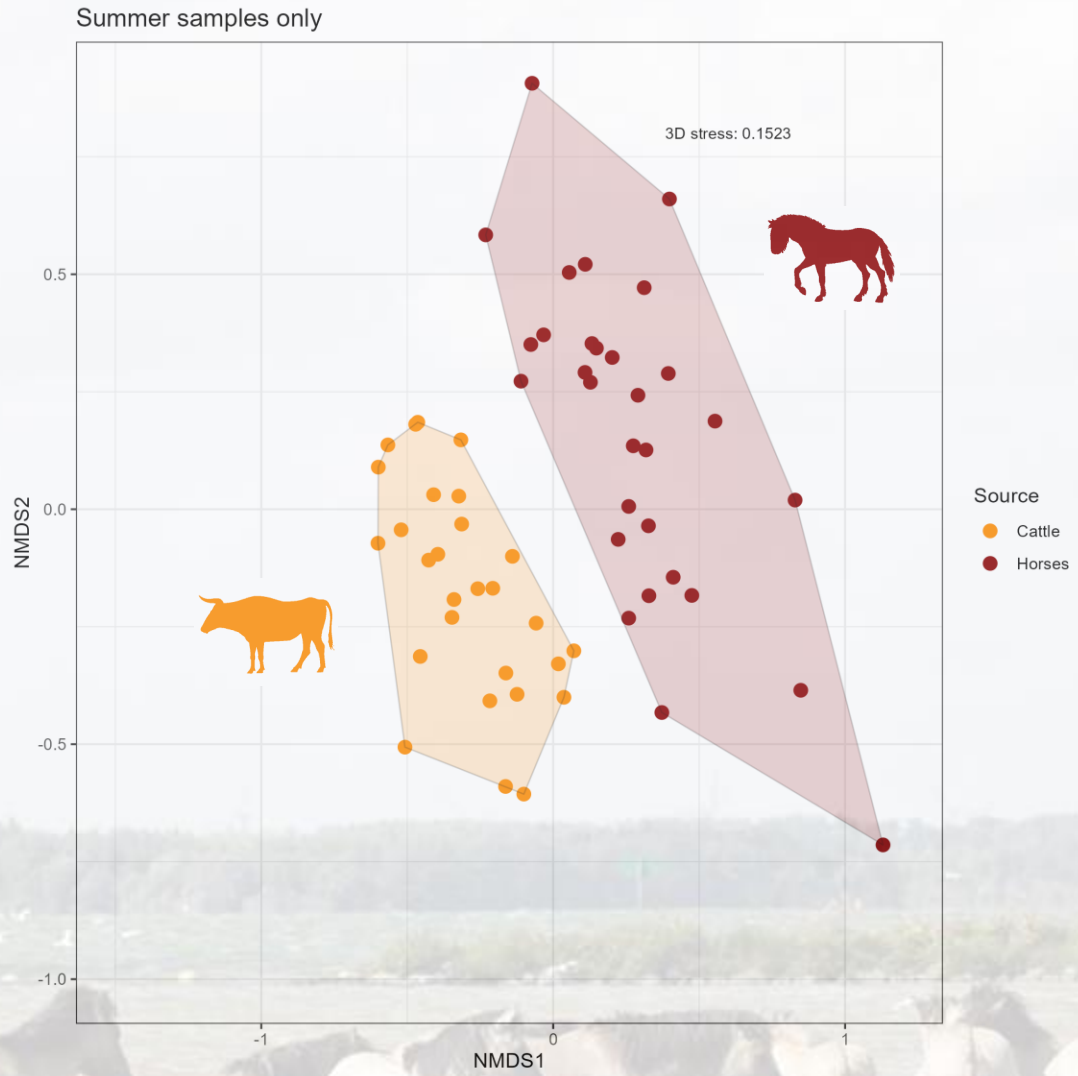
Sæsonvariation I diæt og fauna

Thomassen et al, 2023, Mol. Ecol.

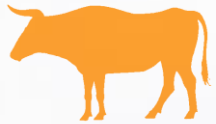


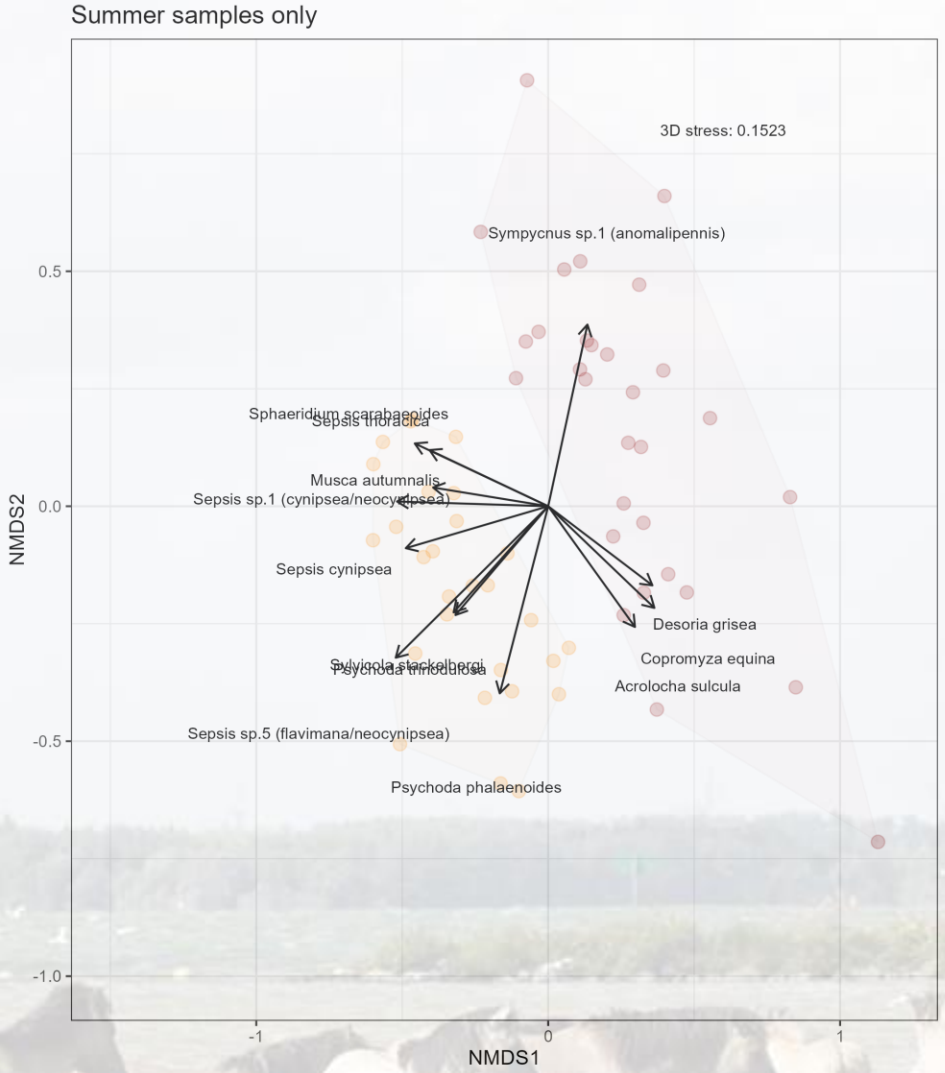
Thomassen et al, 2023, Mol. Ecol.

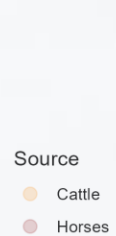
Samfund af lorte-tilknyttede leddyr I hhv. Ko og hestelort



Data from Thomassen et al, 2023, Mol. Ecol.

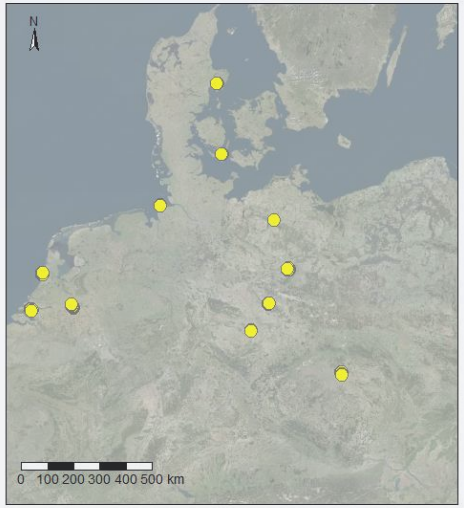




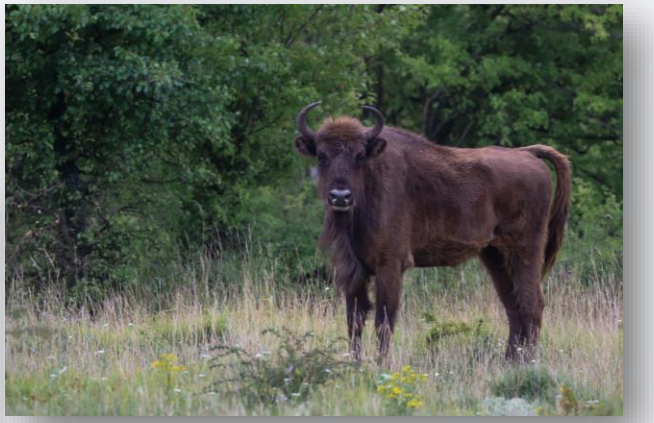


Data from Thomassen et al, 2023, Mol. Ecol. Pictures: Kazimieras Martinaitis, ukbeetles.co.uk, CBG Photography Group, Katja Schulz, Josef Hlasek, Joseph Berger, Scott T. Smith

Nyt studie på tværs af Nord/Centraleuropa

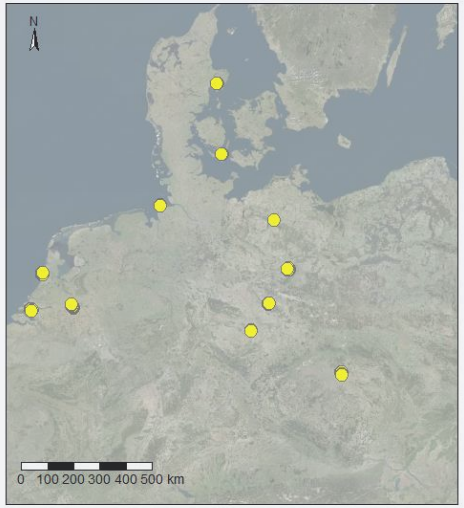


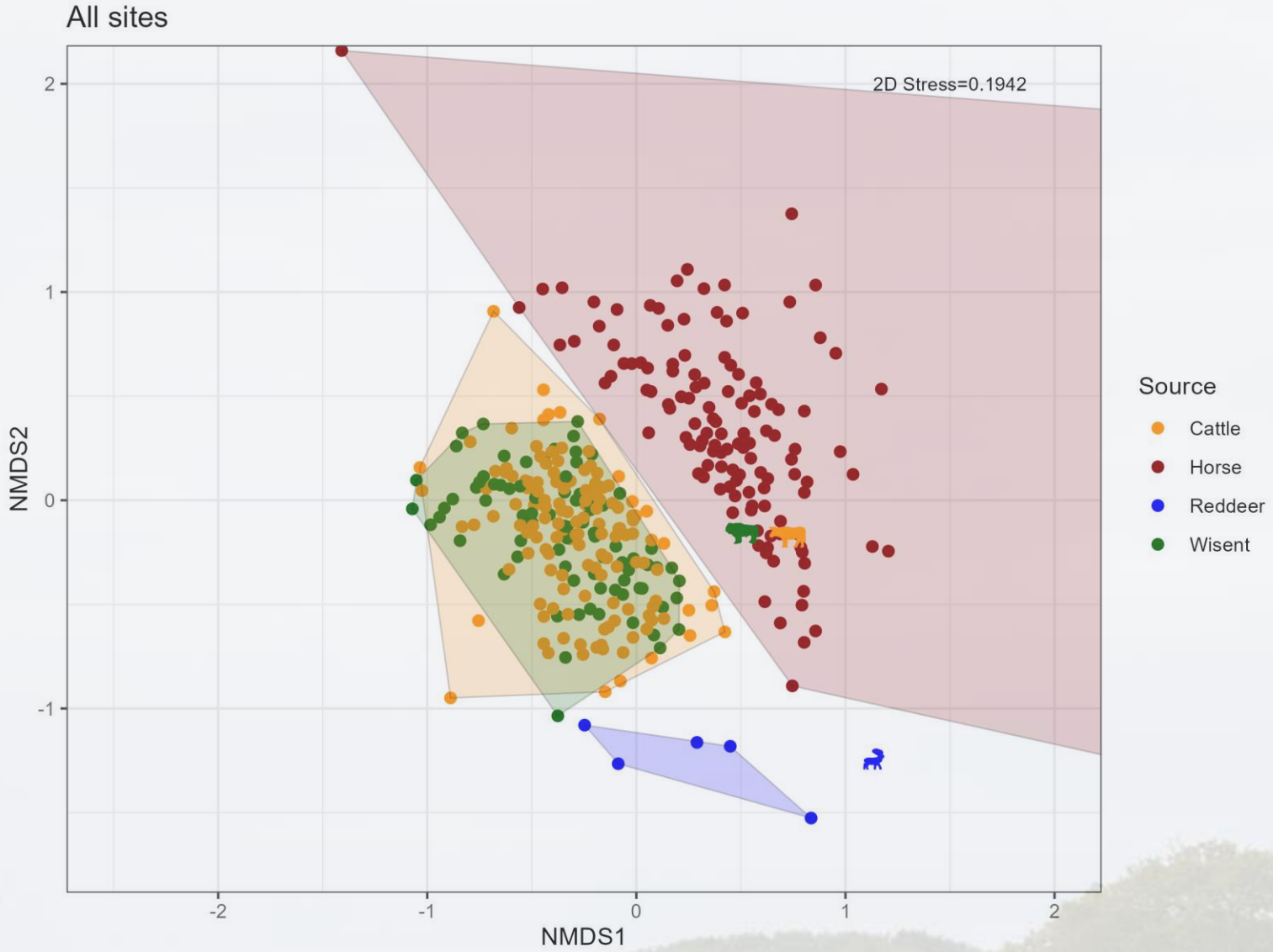
PRØVER INDSAMLET I JULI/AUGUST 2022



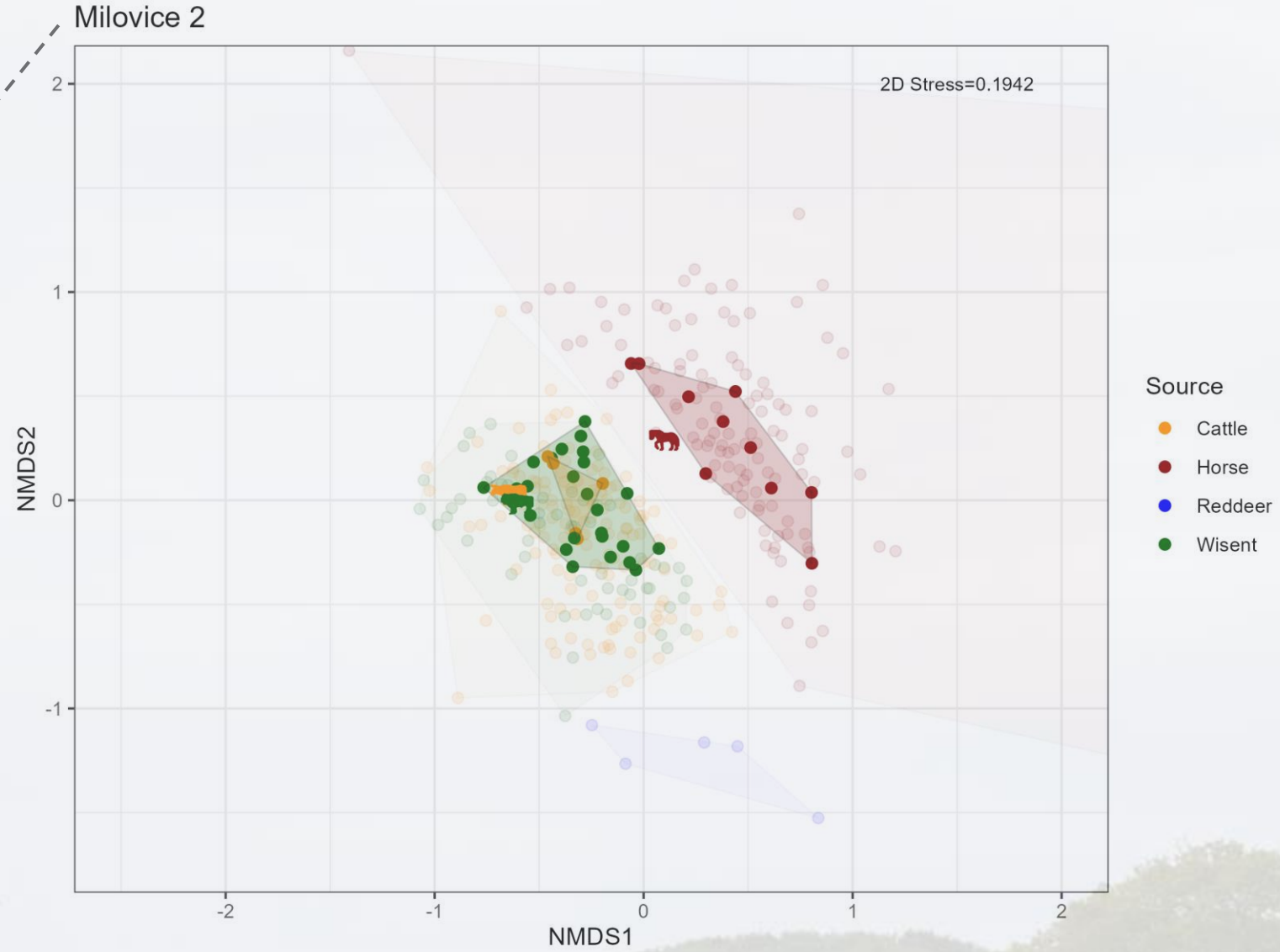
Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

Lorte-tilknyttede leddyr I hhv. Ko, bison og hestelort (og krondyr)



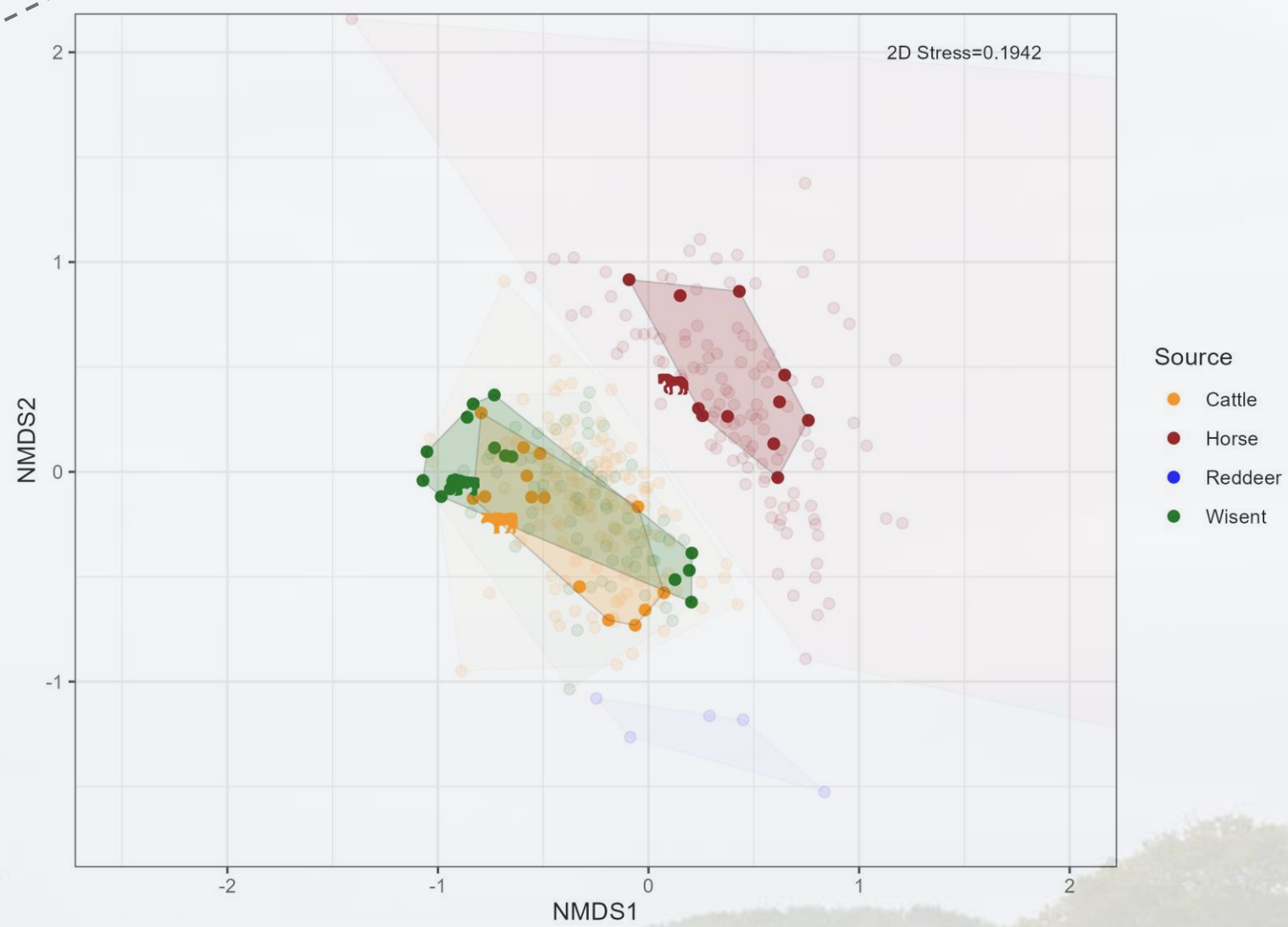


Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data



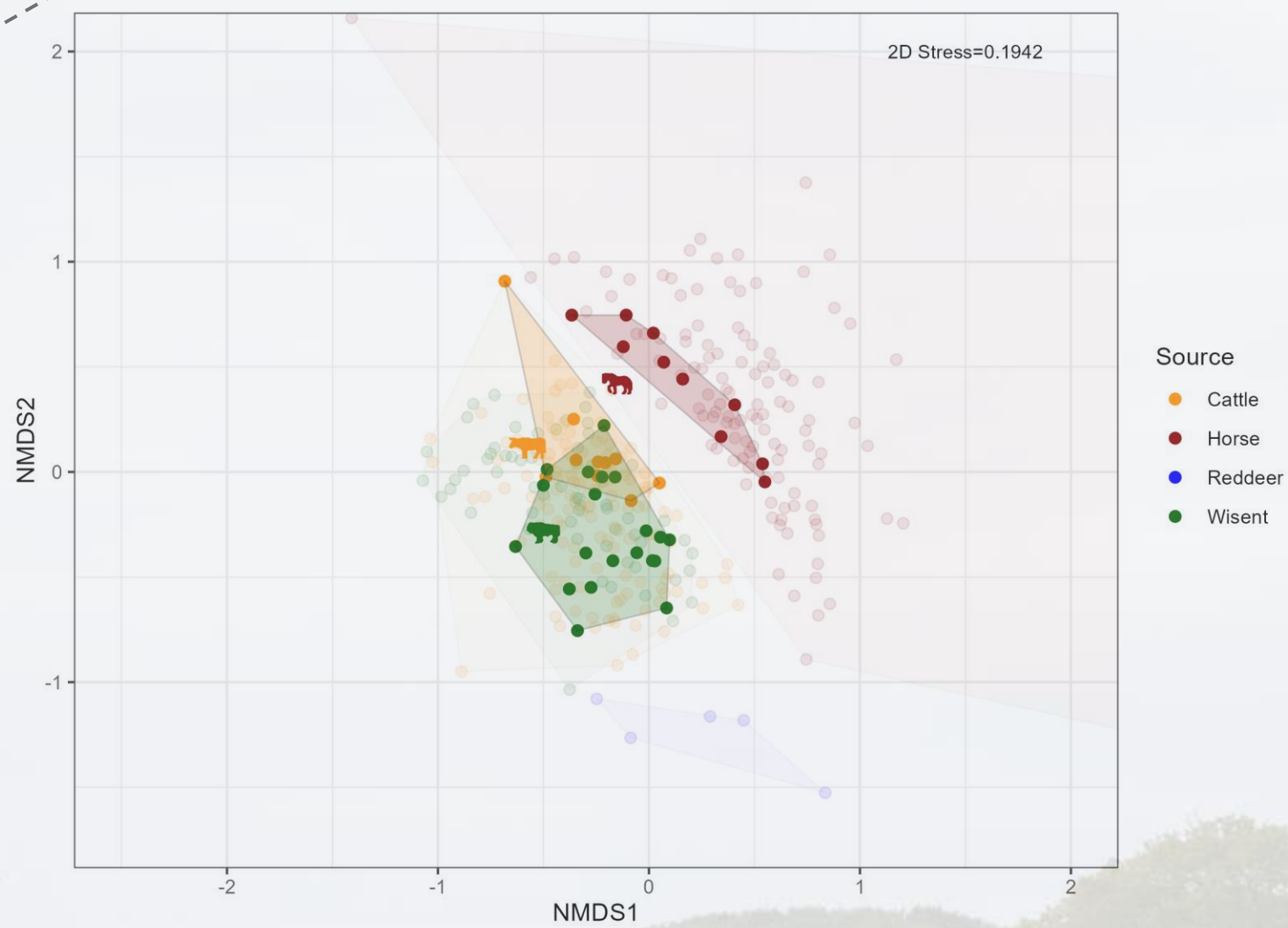
Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

Kraansvlak 2

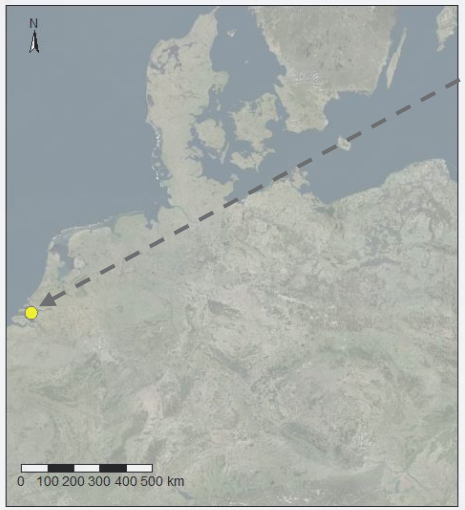


Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

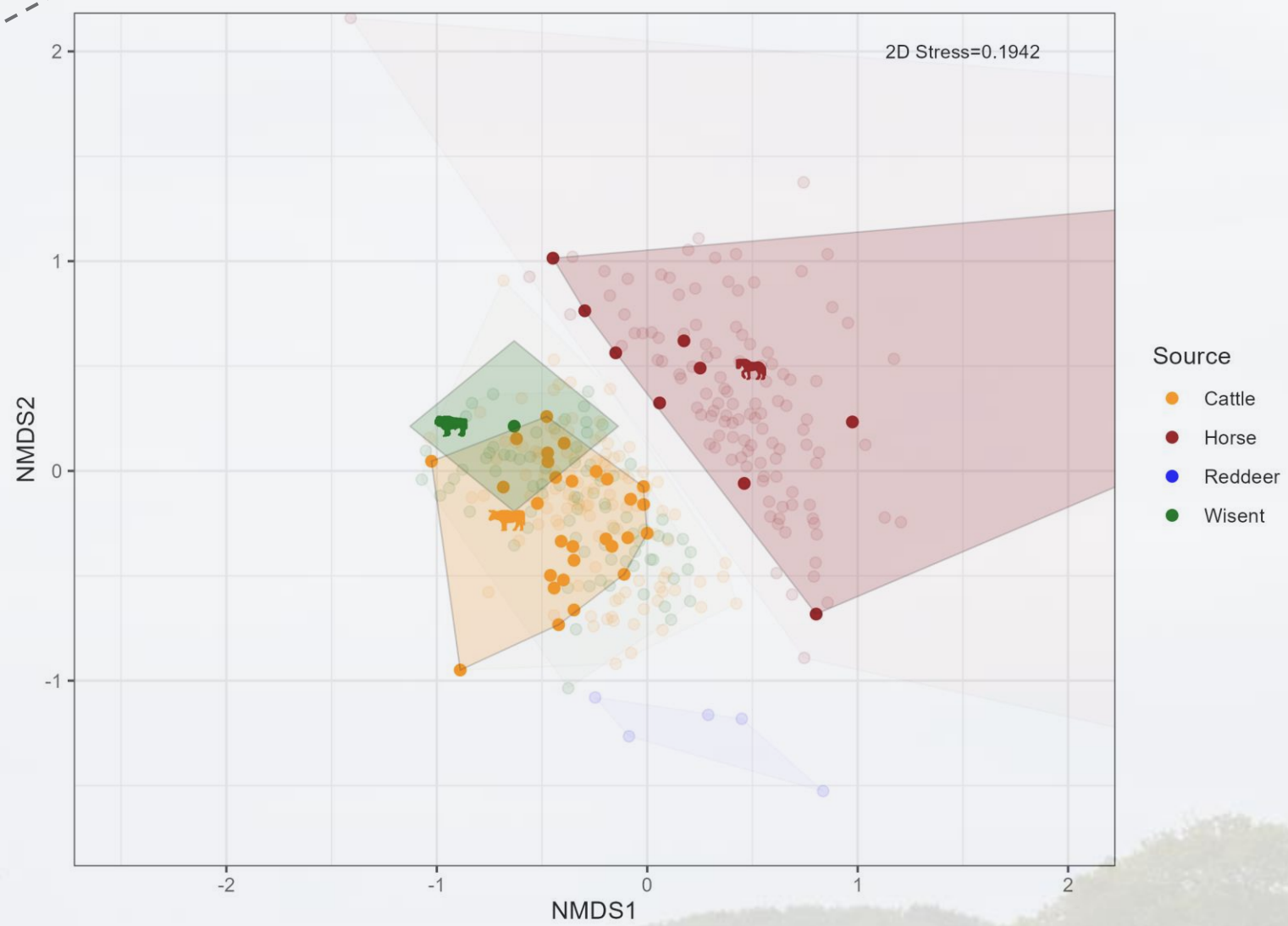
De Maashorst 1



Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

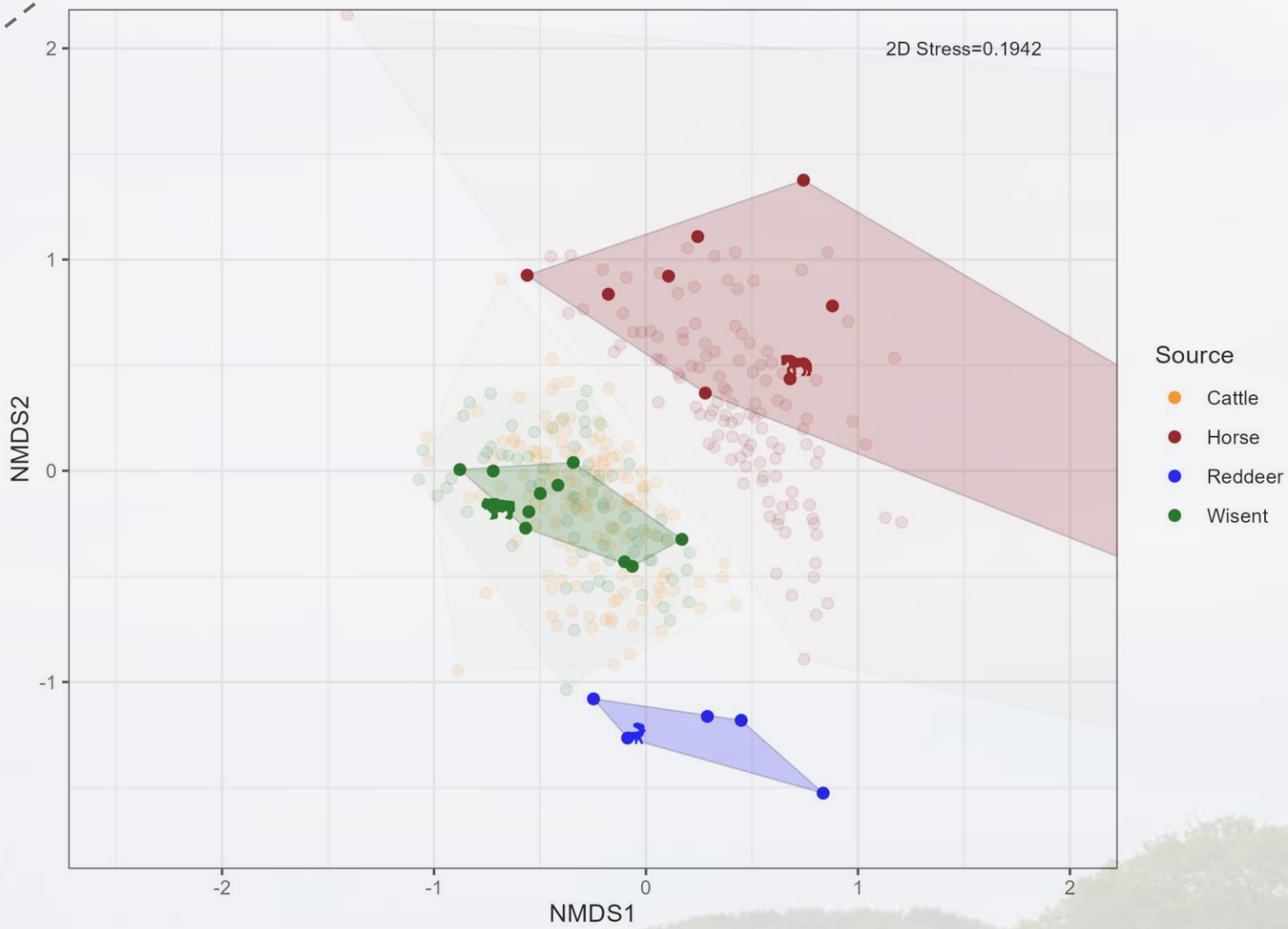


Slikken van der Heen



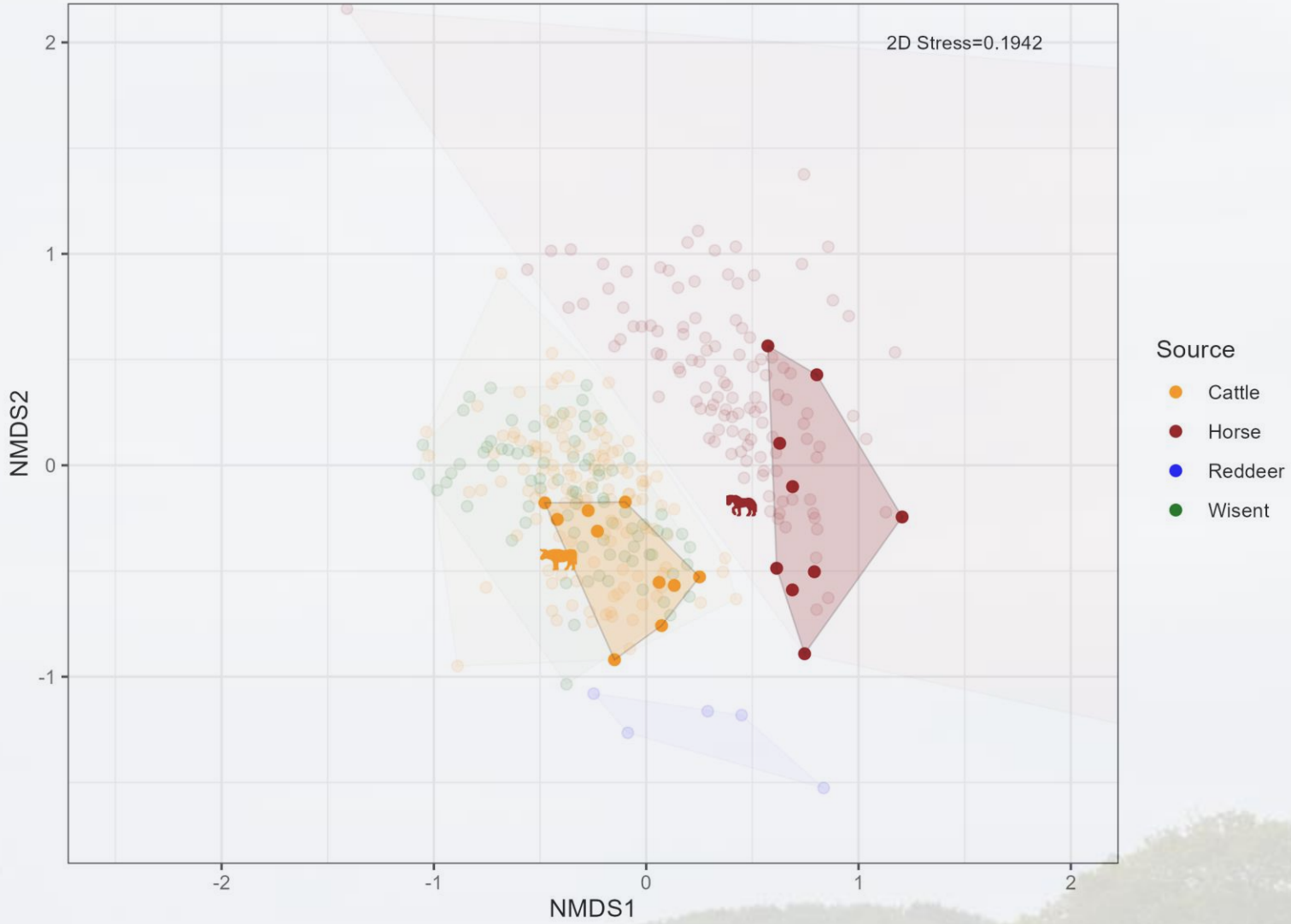
Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

Dörberitzer Heide



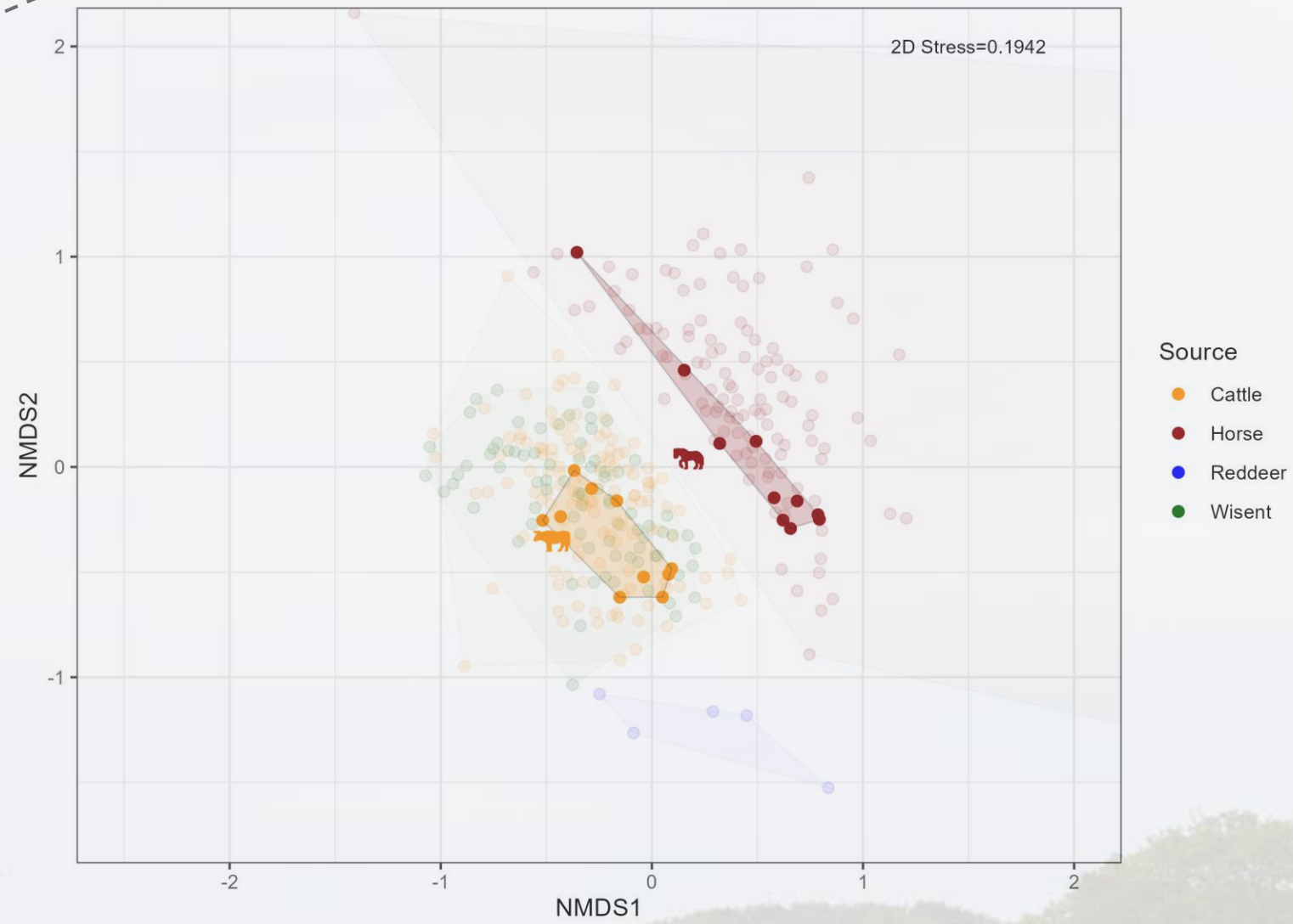
Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

Mols Laboratory



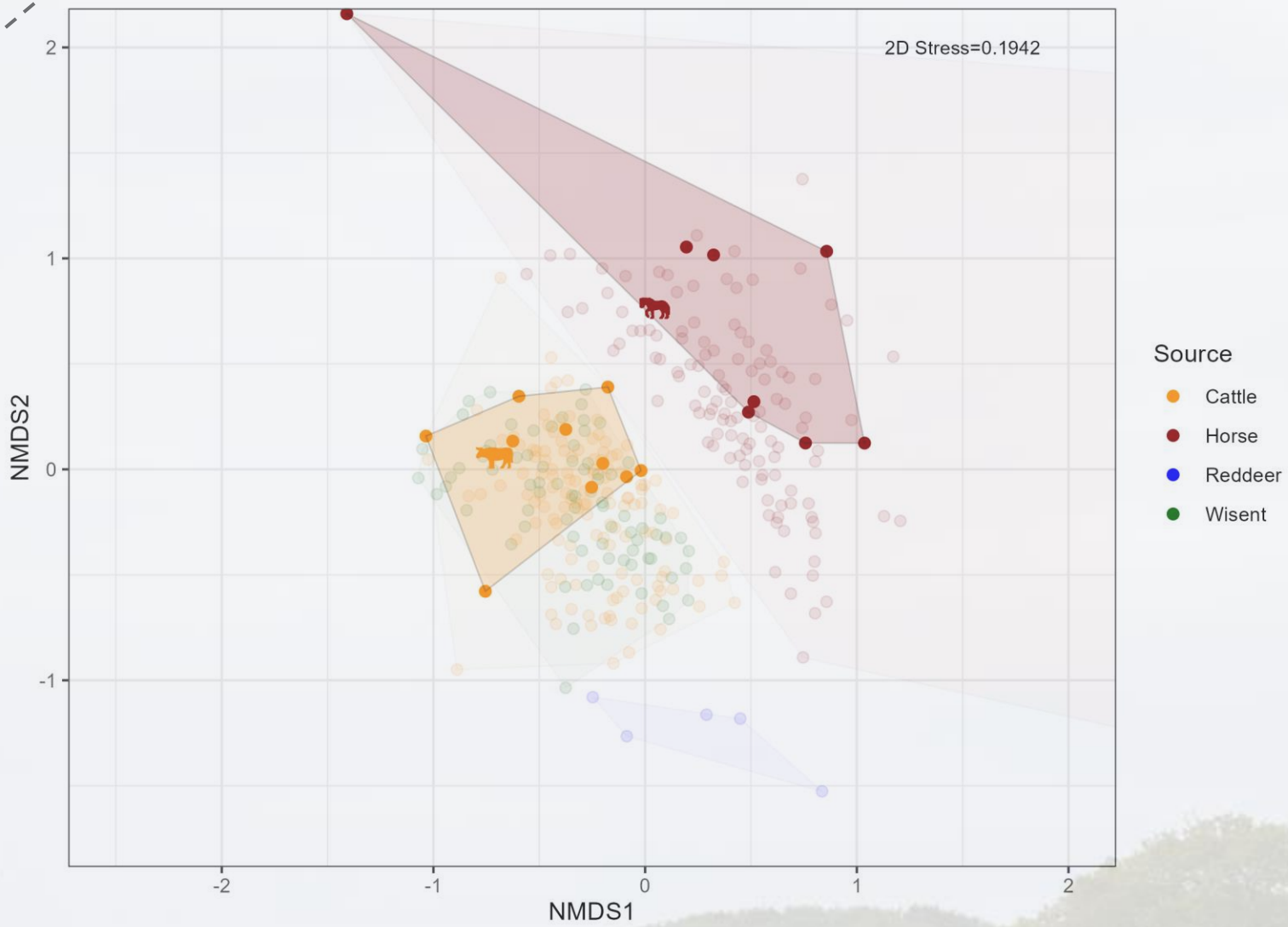
Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

Skovsgaard



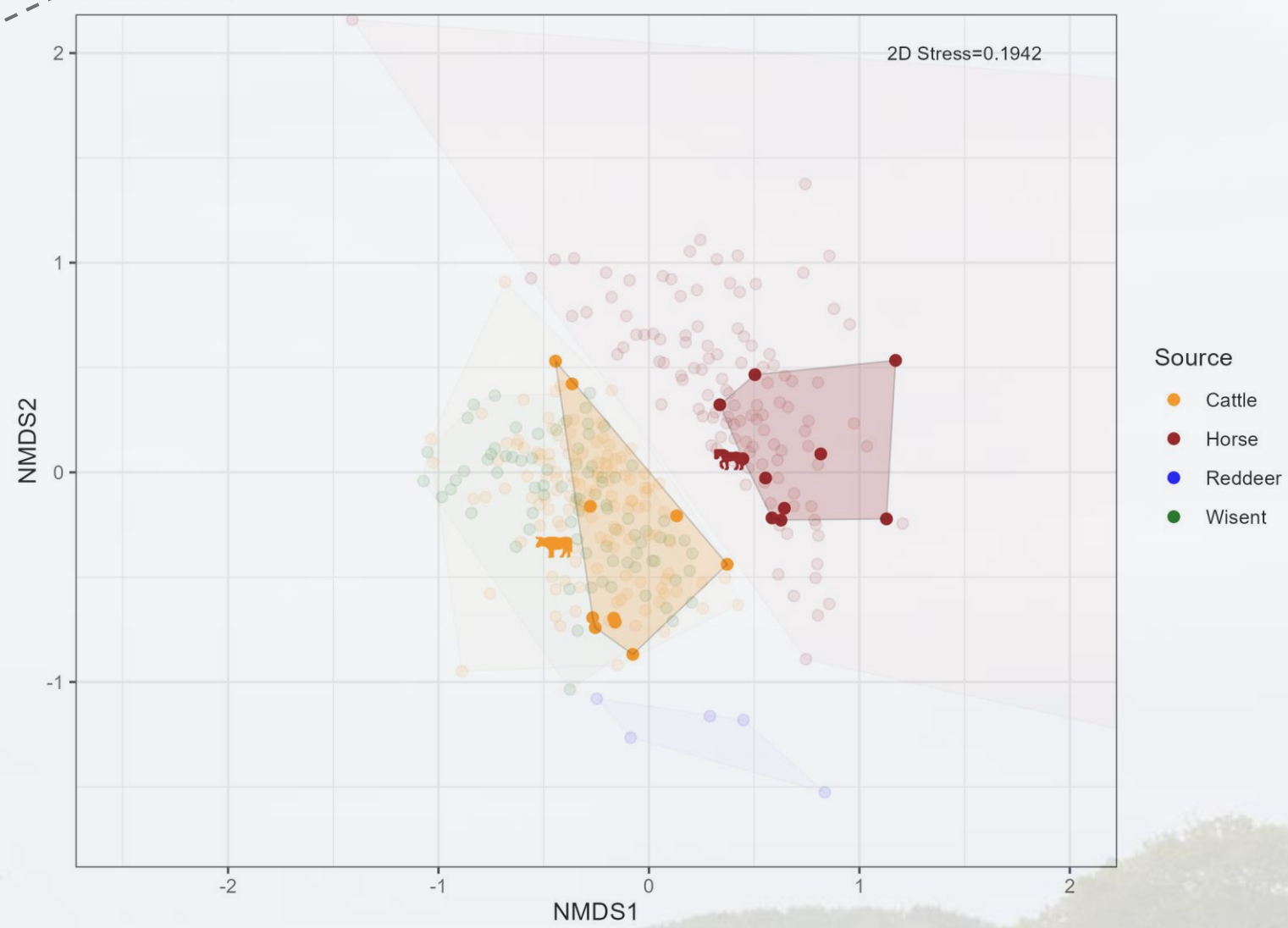
Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

Oranienbaumer Heide

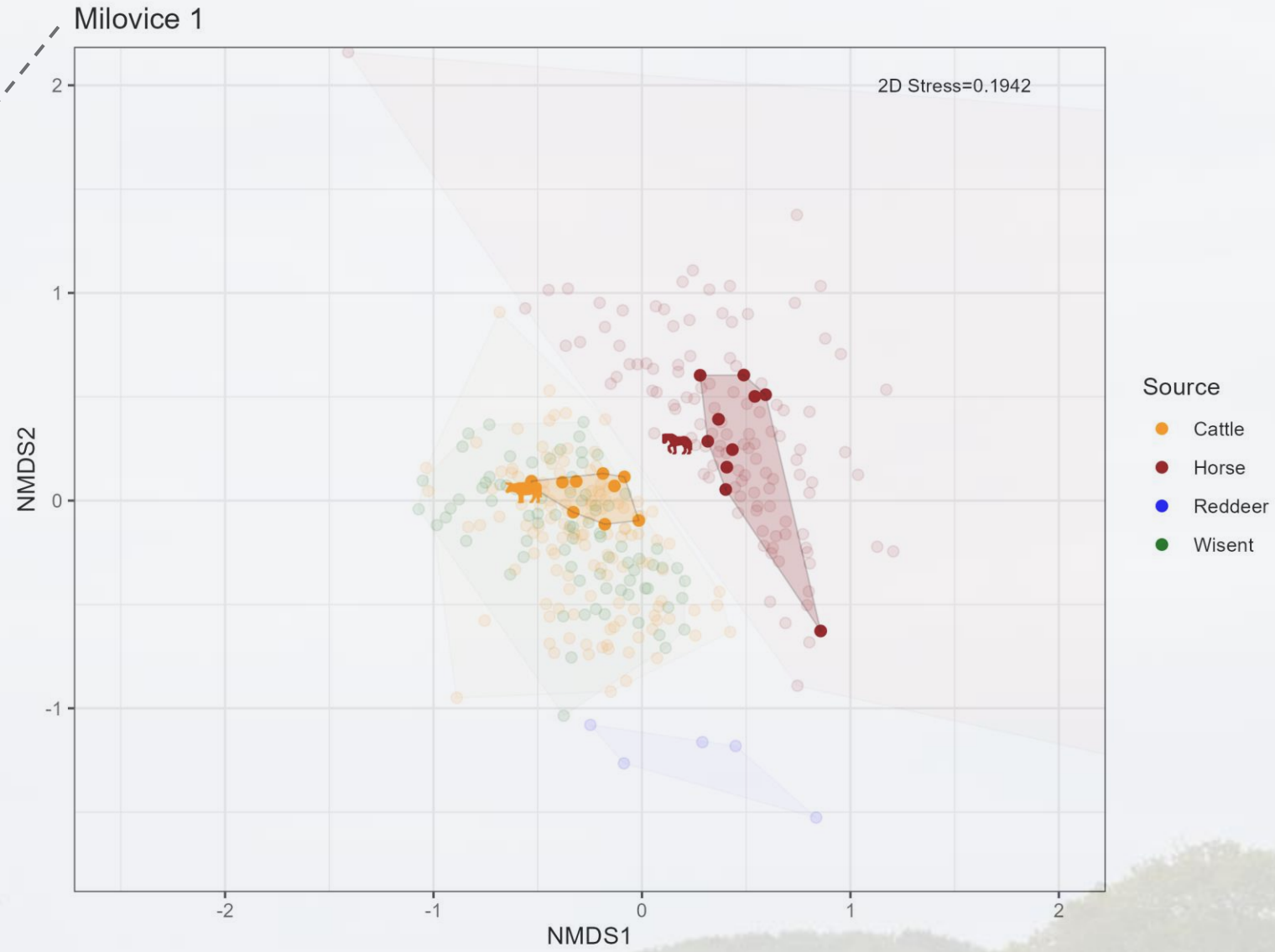


Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

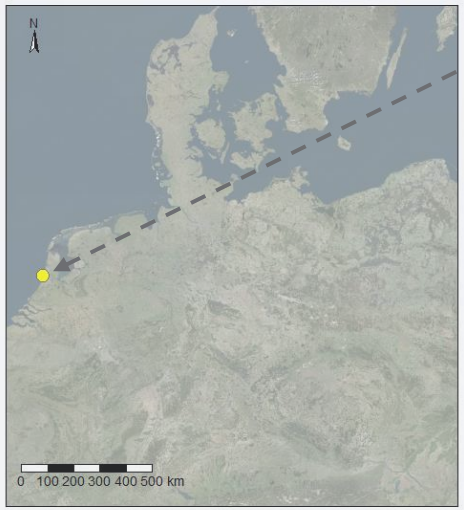
Cuxhaven 1



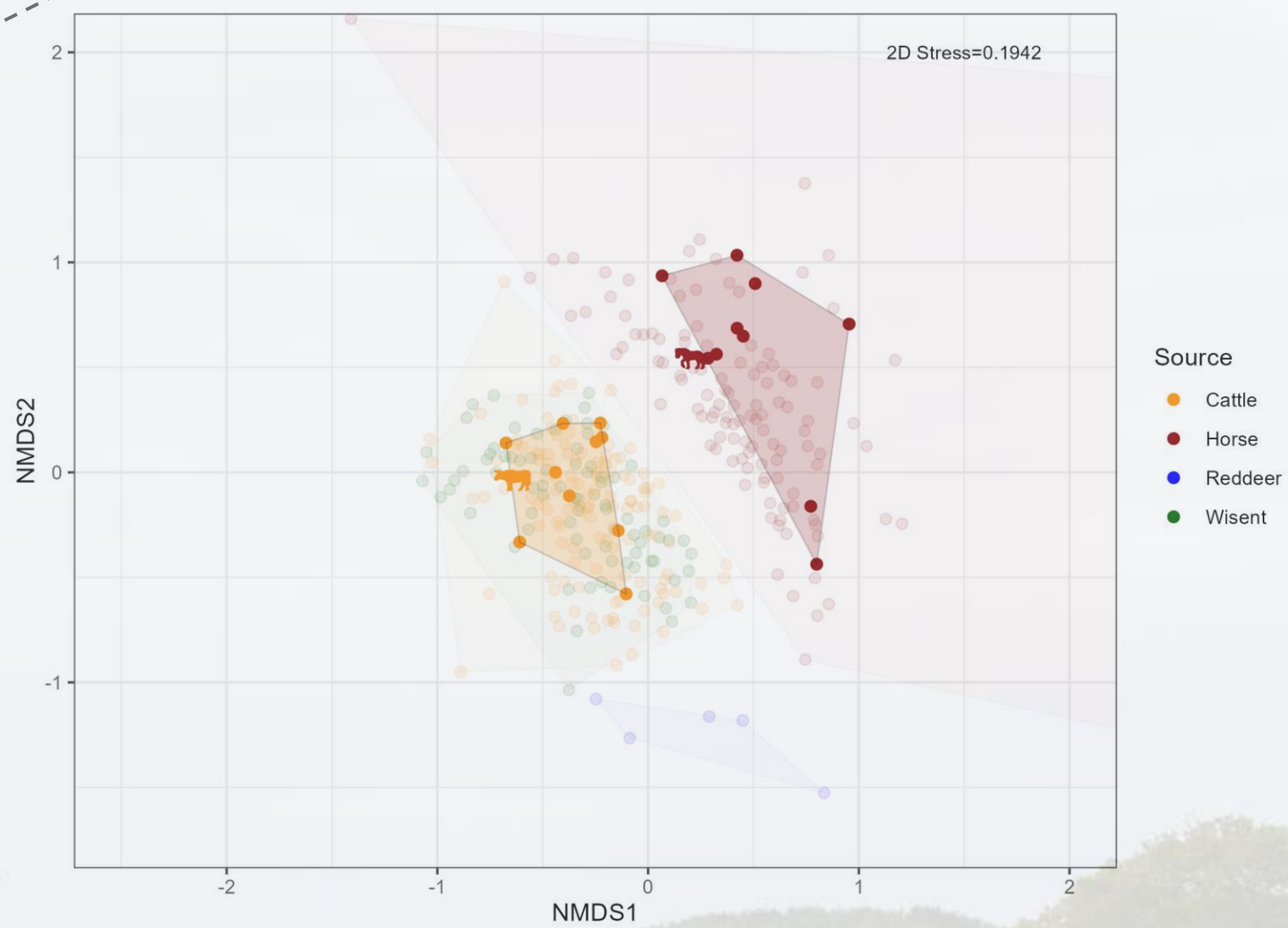
Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data



Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

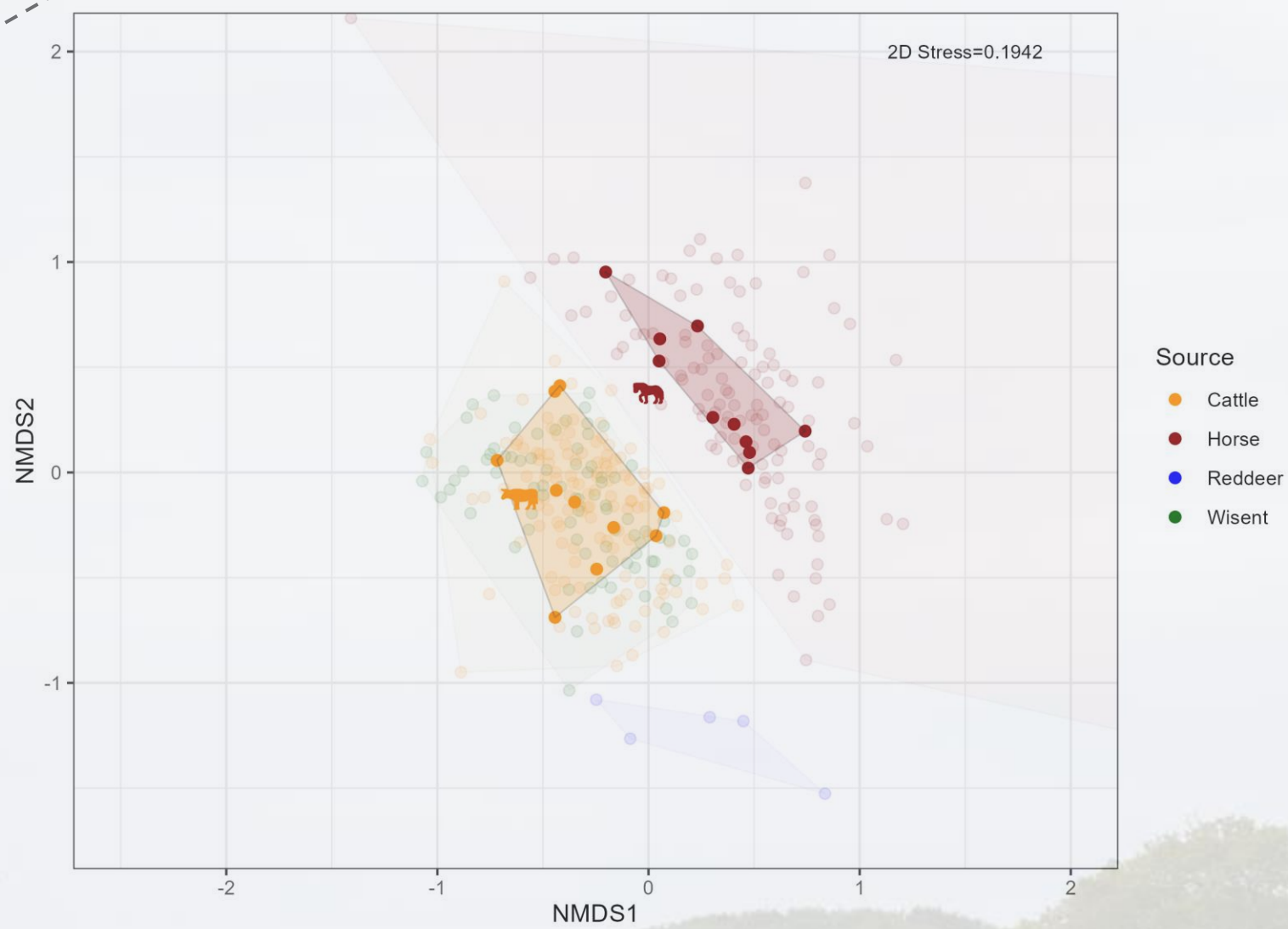


Kraansvlak 1



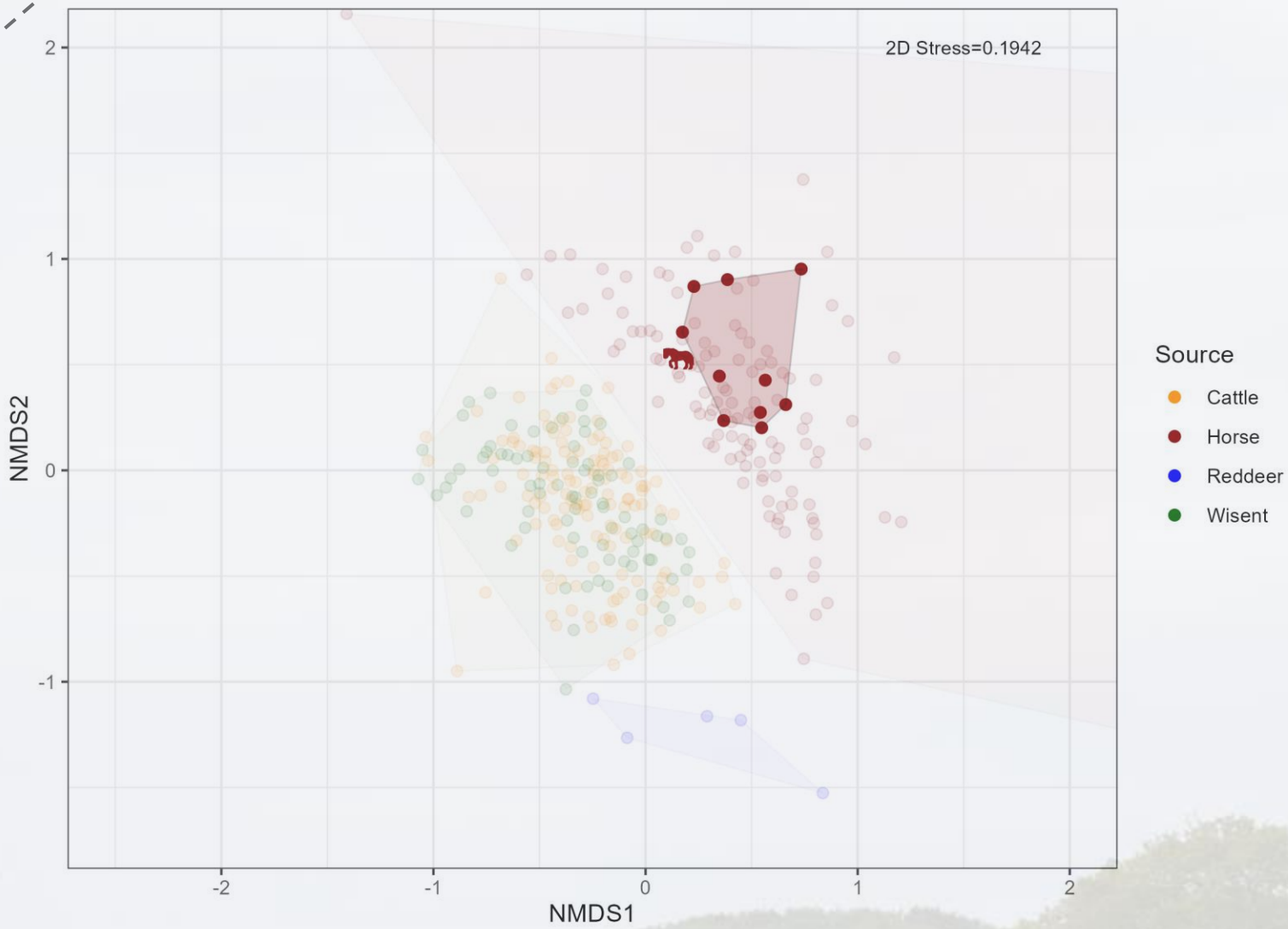
Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

De Maashorst 2



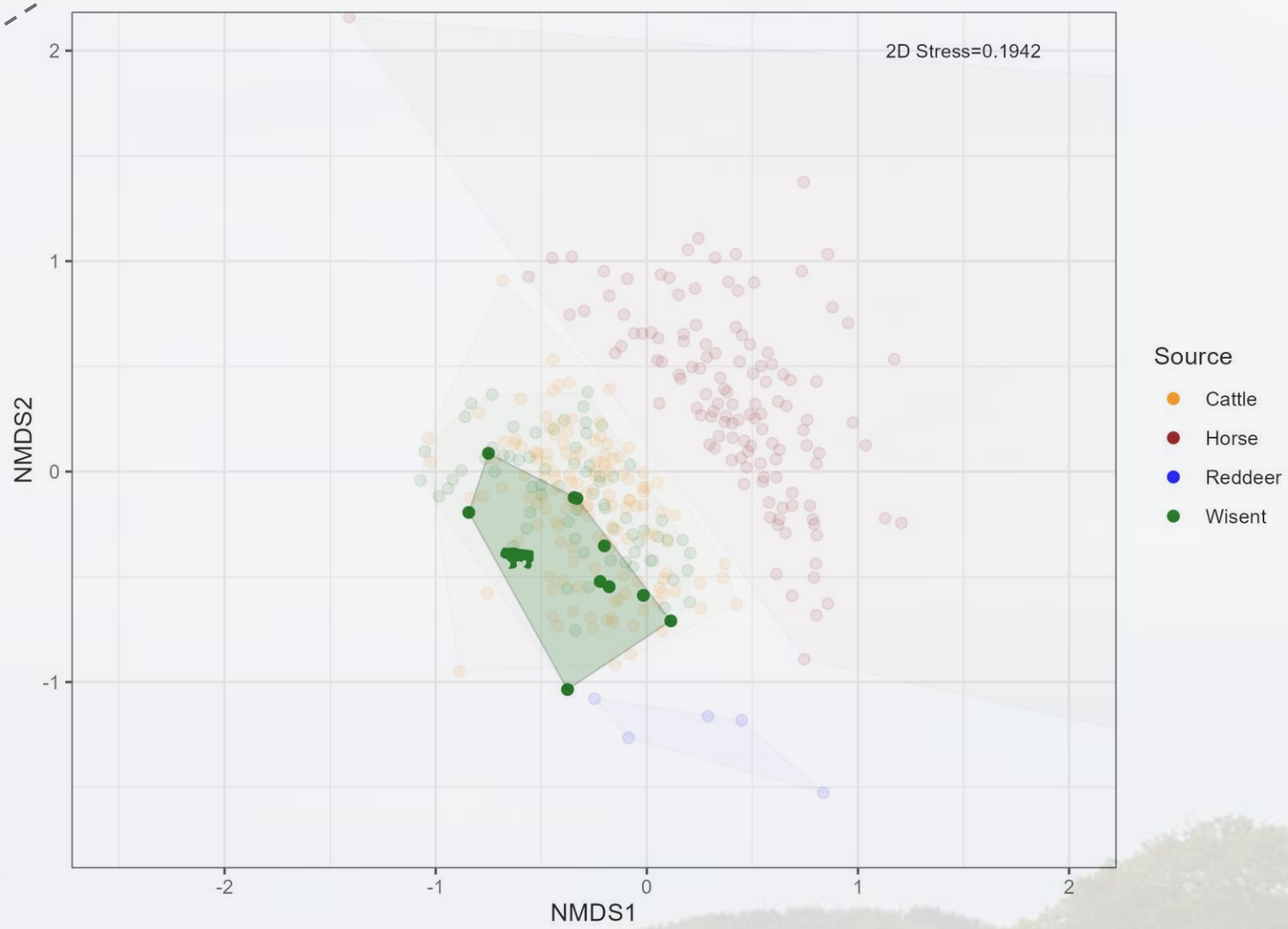
Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

Tote Täler



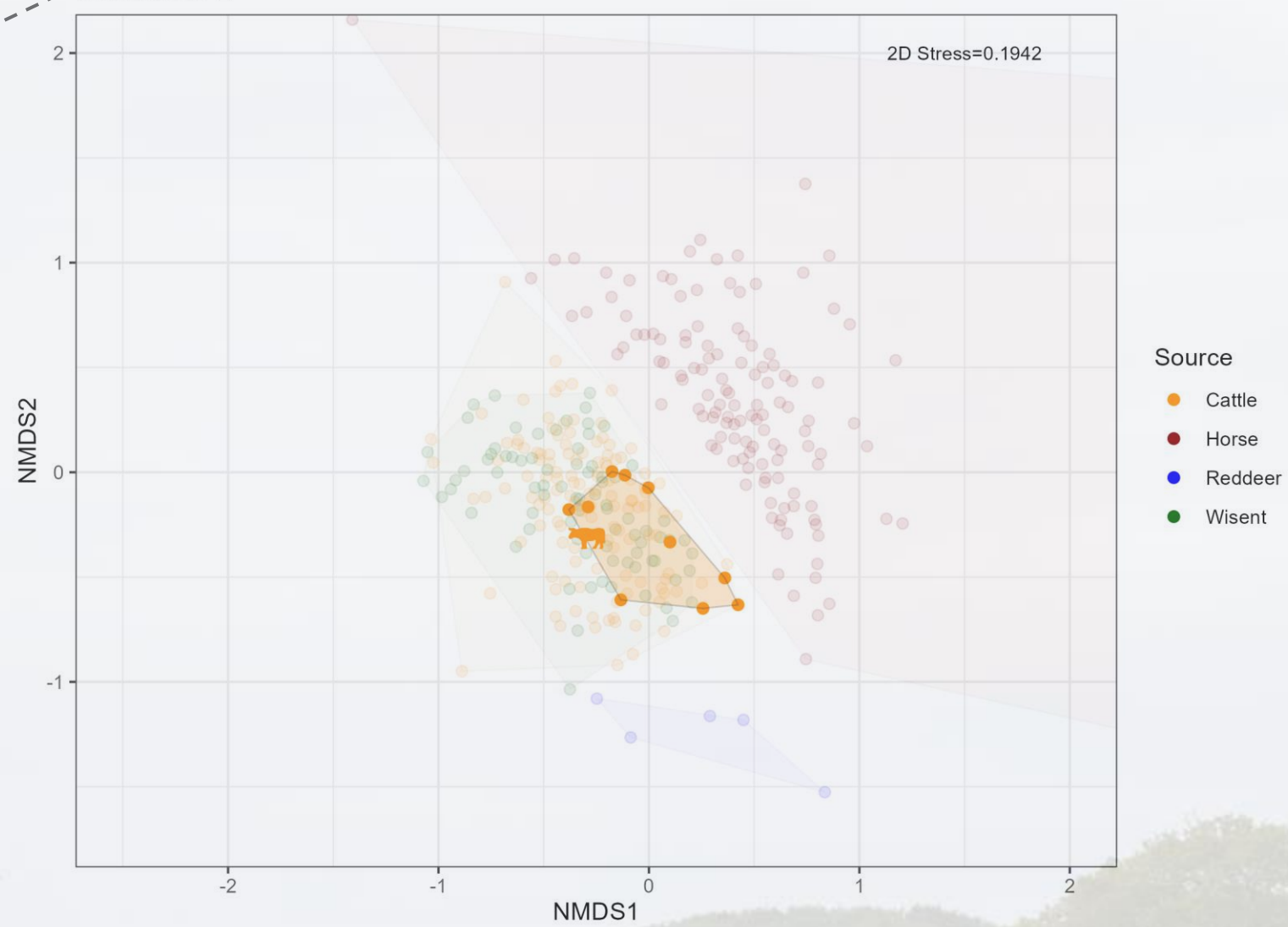
Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

Damerow

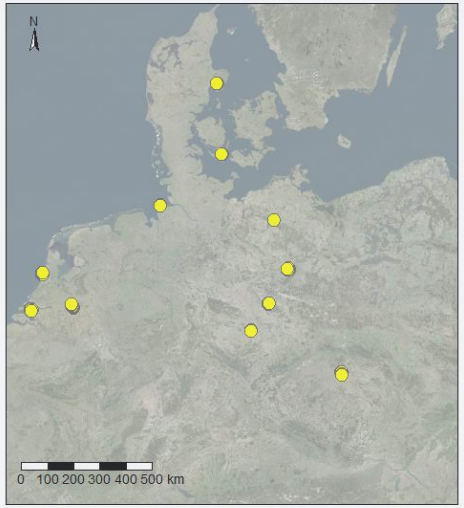


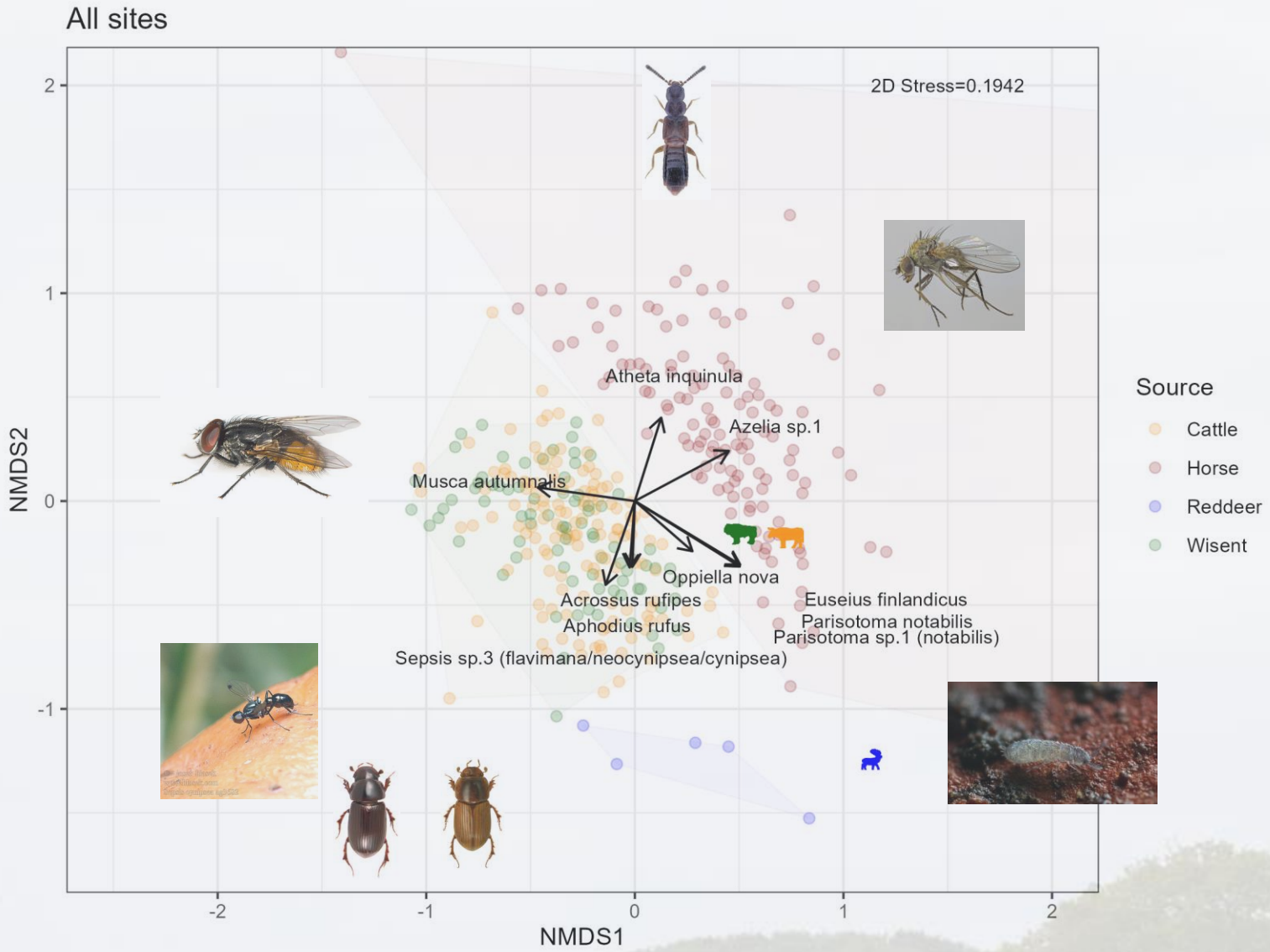
Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data

Cuxhaven 2



Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data



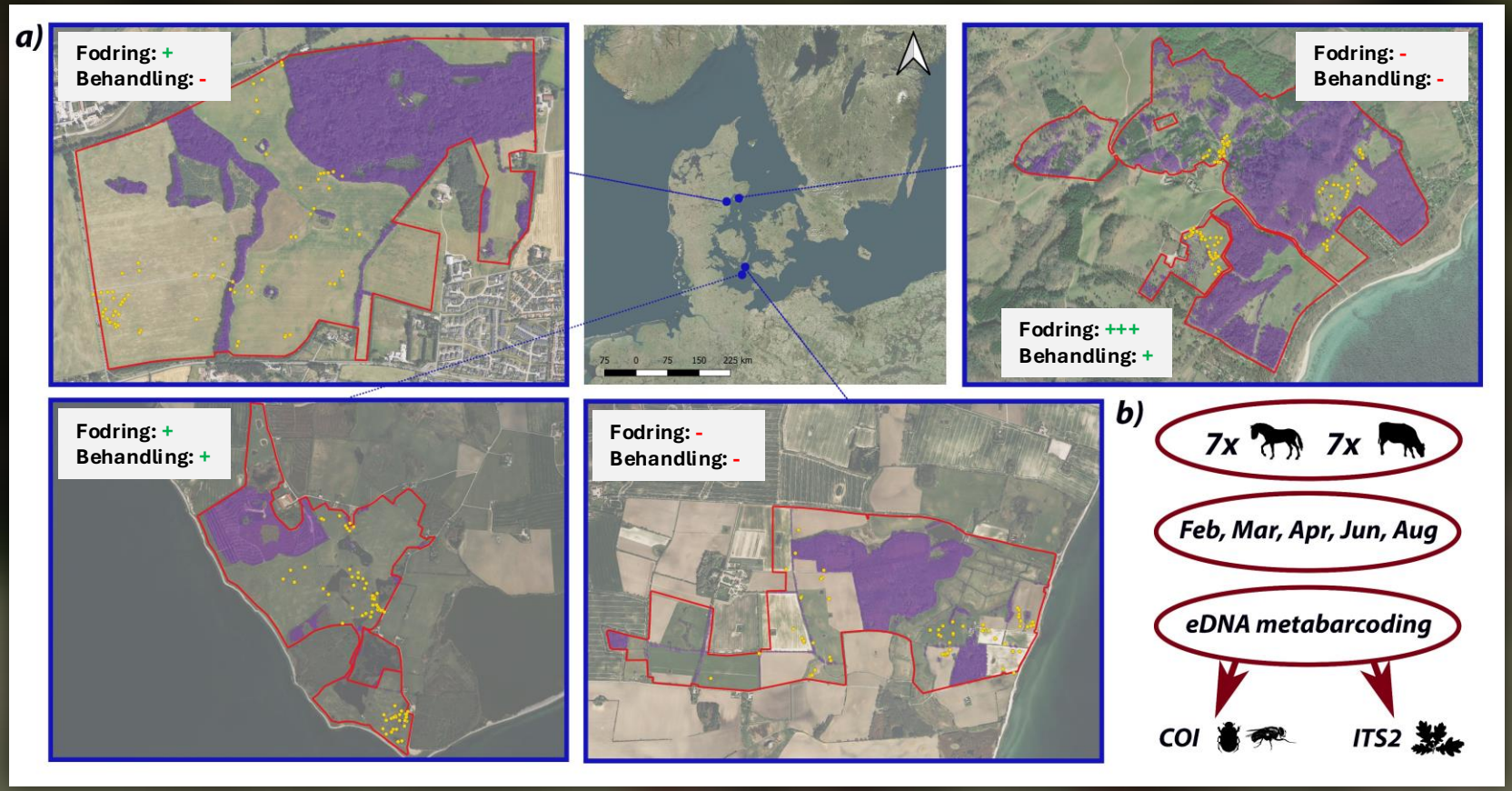


Thomassen, E.S., Czyzewski, S., Hansen, O.L.P., et al. unpublished data; Pictures: ukbeetles.co.uk, Andy Murray, Josef Hlasek, Scott T. Smith, Janet Graham, U.Schmidt

Funktionelt forskellige planteædere = øget heterogenitet, understøtter høj biodiversitet

Samgræsning med funktionelt forskellige planteædere er fordelagtigt hvis målet er selvforvaltede økosystemer med høj biodiversitet

Effekter af forvaltningstiltag



Prøver indsamlet fra 5 områder I DK med helårsgræssende kvæg og heste

Varierende I mængden af vinter-fodring, samt veterinærbehandlinger

Spændende resultater på trapperne – to be continued...

Tak for jeres opmærksomhed, og tak til samarbejdspartnere og fonde

Samarbejdspartnere DK:

Naturhistorisk Museum Aarhus & Molslaboratoriet, Skovsgaard Gods, Kristian Graubæk, Catrine Jensen, Naturstyrelsen, Annita Svendsen, Kasper Skjærlund, Peder Kirk Iversen, Jakob Kristian Thøgersen Dahl

Samarbejdspartnere EU:

Jürgen Müller, Tim Funkenberg (Heinz Sielmann Stiftung), Sabine Tischew, Stefan Reinhard (Primigenius), Martina Köhler, Miroslav Jirku, Dalibor Dostal, Lucie Ambrozova, Joris Cromsigt, Leo Linnartz (ARK Nature), Réanna Stegeman (ARK Nature), Esther Rodriguez (PWN), Dick Groenendijk (PWN), Roland Vermeulen (FREE Nature)m Arjen Boerman (FREE Nature), Hein Vermin, Angela Peters, Marit Hidding, Jorn Martens, Ruud Maaskant, Joep van Lieshout, Arne Hasenkampf & Jörg Tillmann

Emil Sloth Thomassen
PhD Studerende
Biologi, Aarhus Universitet
eet@bio.au.dk

CARLSBERG FOUNDATION