

Supplementary Material – Jones et al.

Habitat Maps

These maps outline the current habitats present across the five sites (Figure s1-s5), completed using Phase 1 survey data. Habitats include sand dunes, saltmarsh, heathland, various grasslands, fens on deep peat, woodlands, plantations (both planted and recently cleared to make way for new heathland), scrub and bracken.

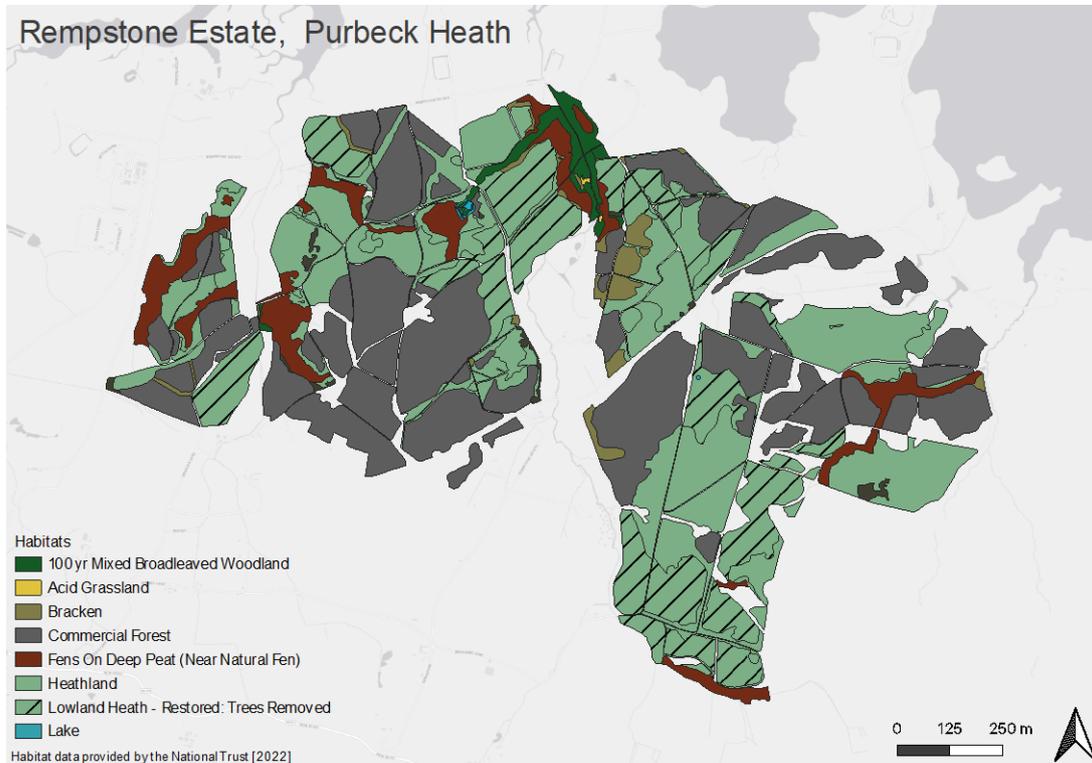


Figure s1. Habitat map of Rempstone Estate. Scale 1:17,500. Data collected by the National Trust (2022).

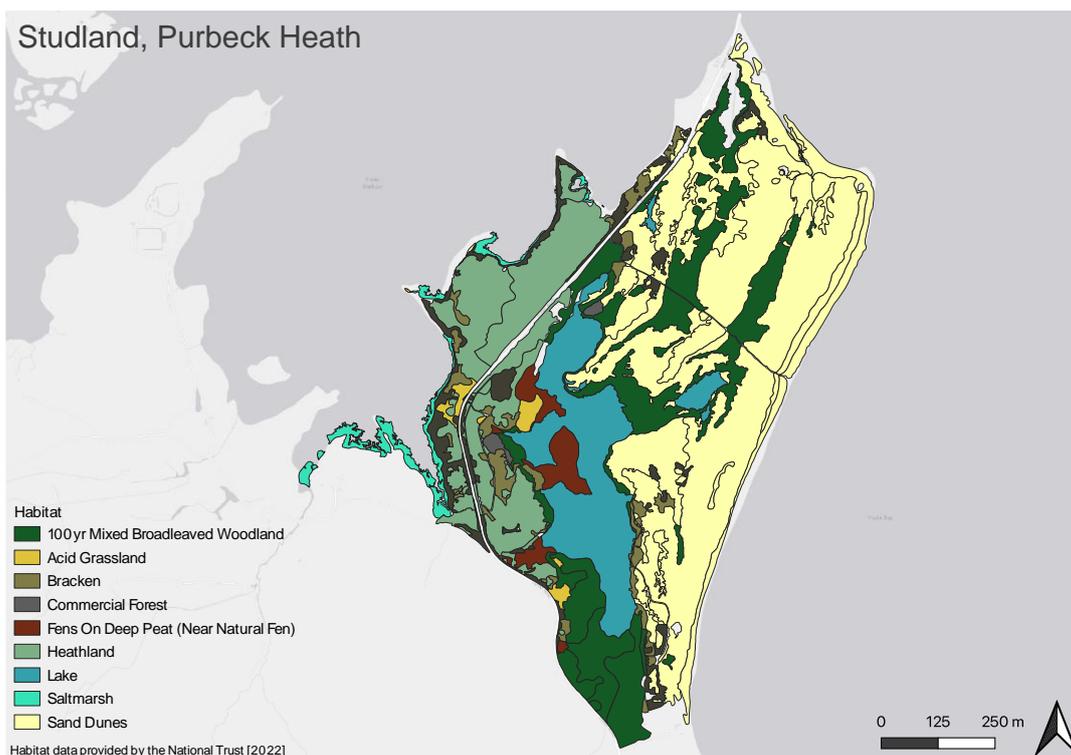


Figure s2. Habitat map of Studland. Scale 1:16,000. Data collected by the National Trust (2022).

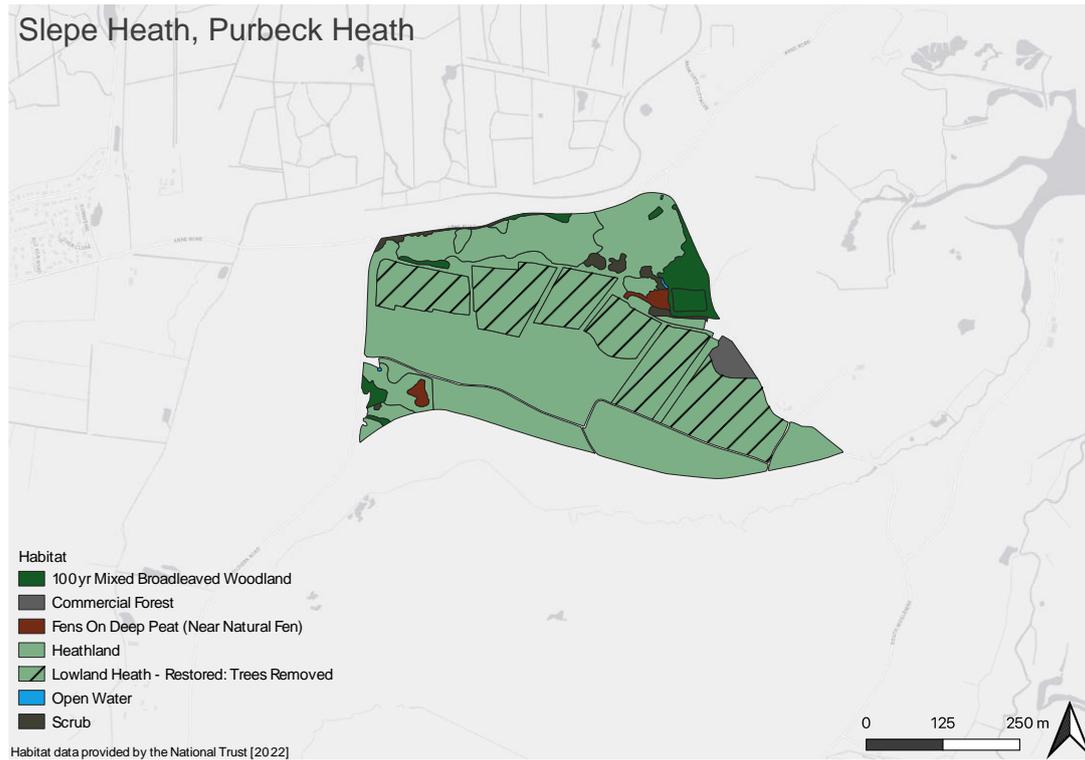


Figure s3. Habitat map of Slepe Heath. Scale 1:12,000. Data collected by the National Trust (2022).

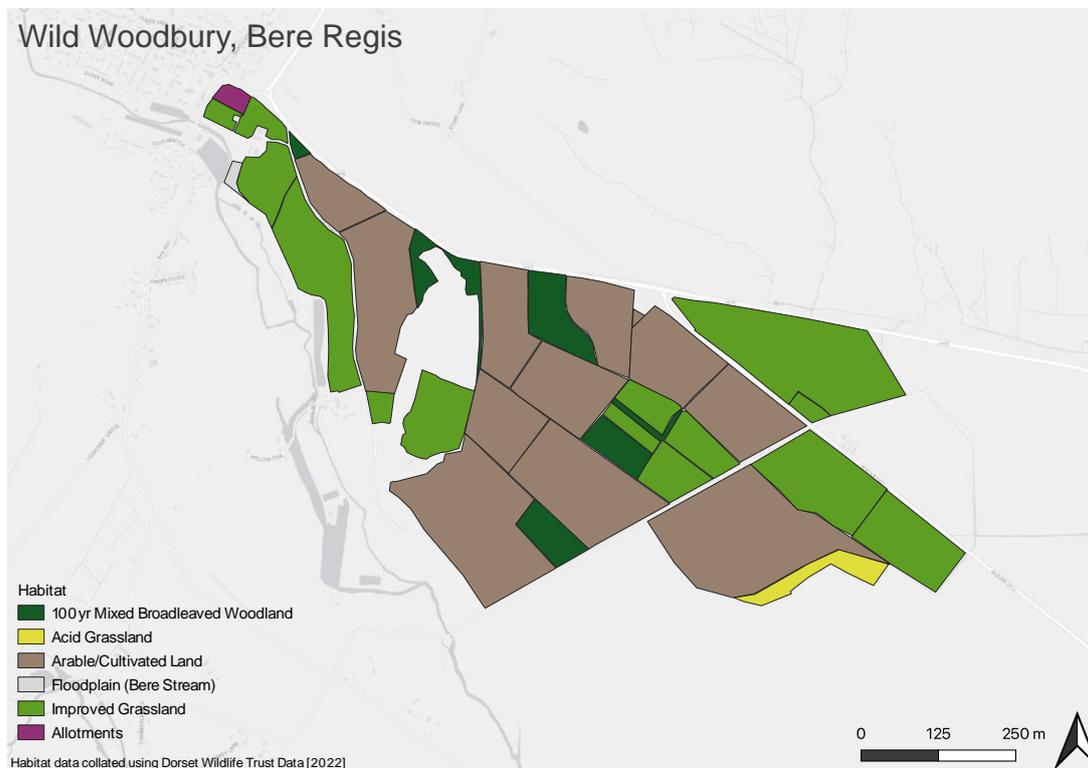


Figure s4. Habitat map of Wild Woodbury. Scale 1:12,000. Data collected by the author (2022) and supplemented with reports from Dorset Wildlife Trust (Land Research Associates 2021; Palmer and Simms 2021).

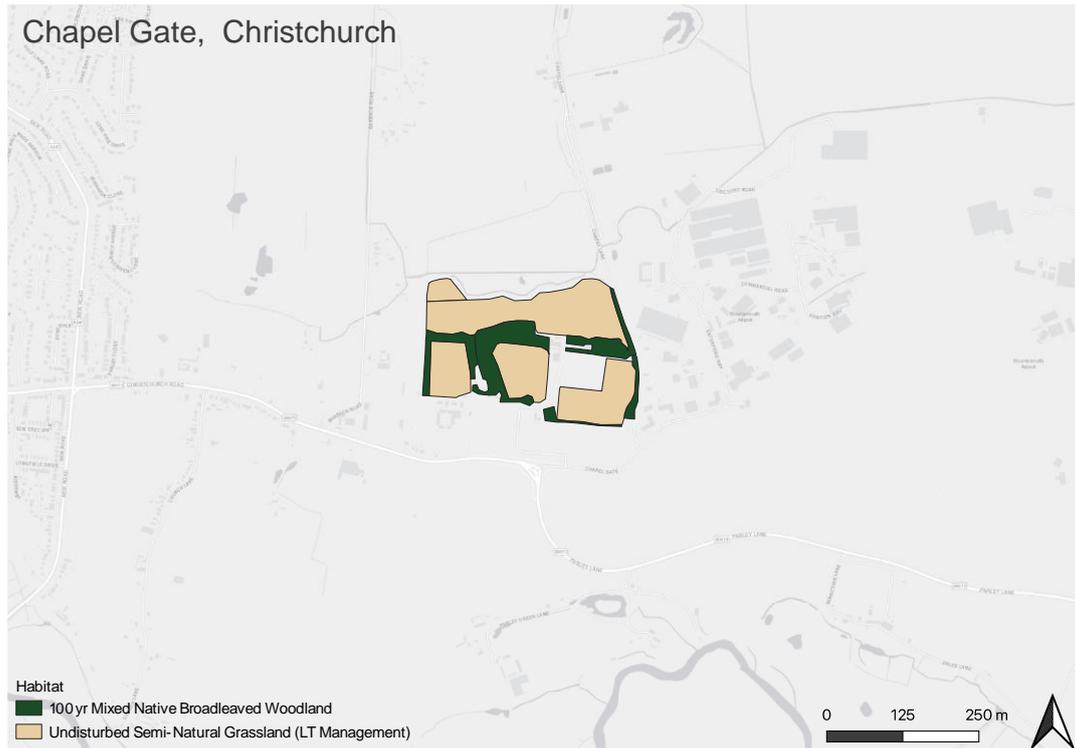


Figure s5. Habitat map of Chapel Gate. Scale 1:12,000. Data collected by the authors.

Sequestration Maps

Below are maps that display the current (2022) and the projected (2032) carbon sequestration rate (Figures s6 to s10) for each habitat area if management changes discussed in the main paper are implemented.

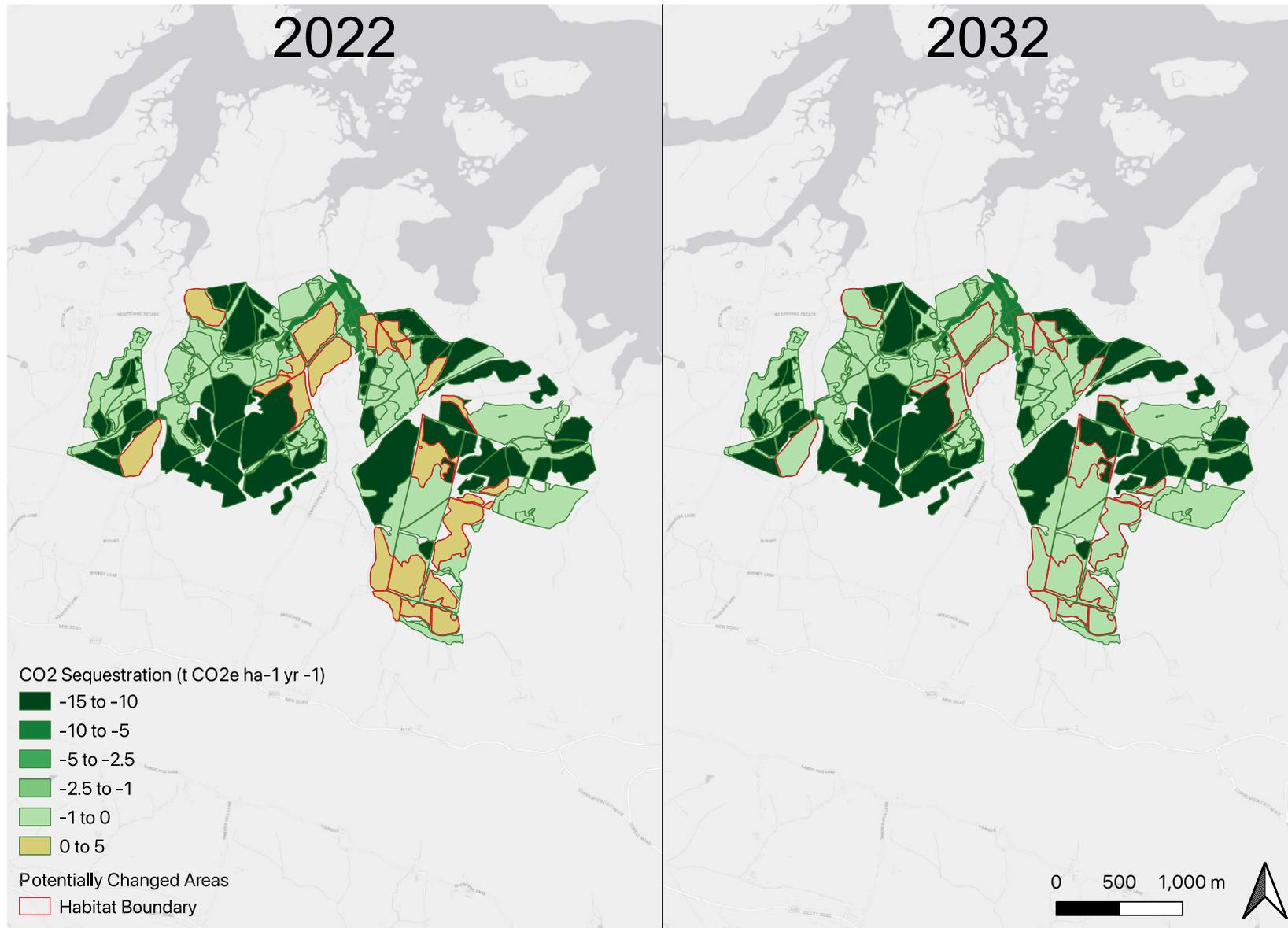


Figure s6. Sequestration rate in tonnes of CO₂e per hectare per year before (left) and after (right) suggested management changes at Rempstone Estate. Scale 1:35,000.

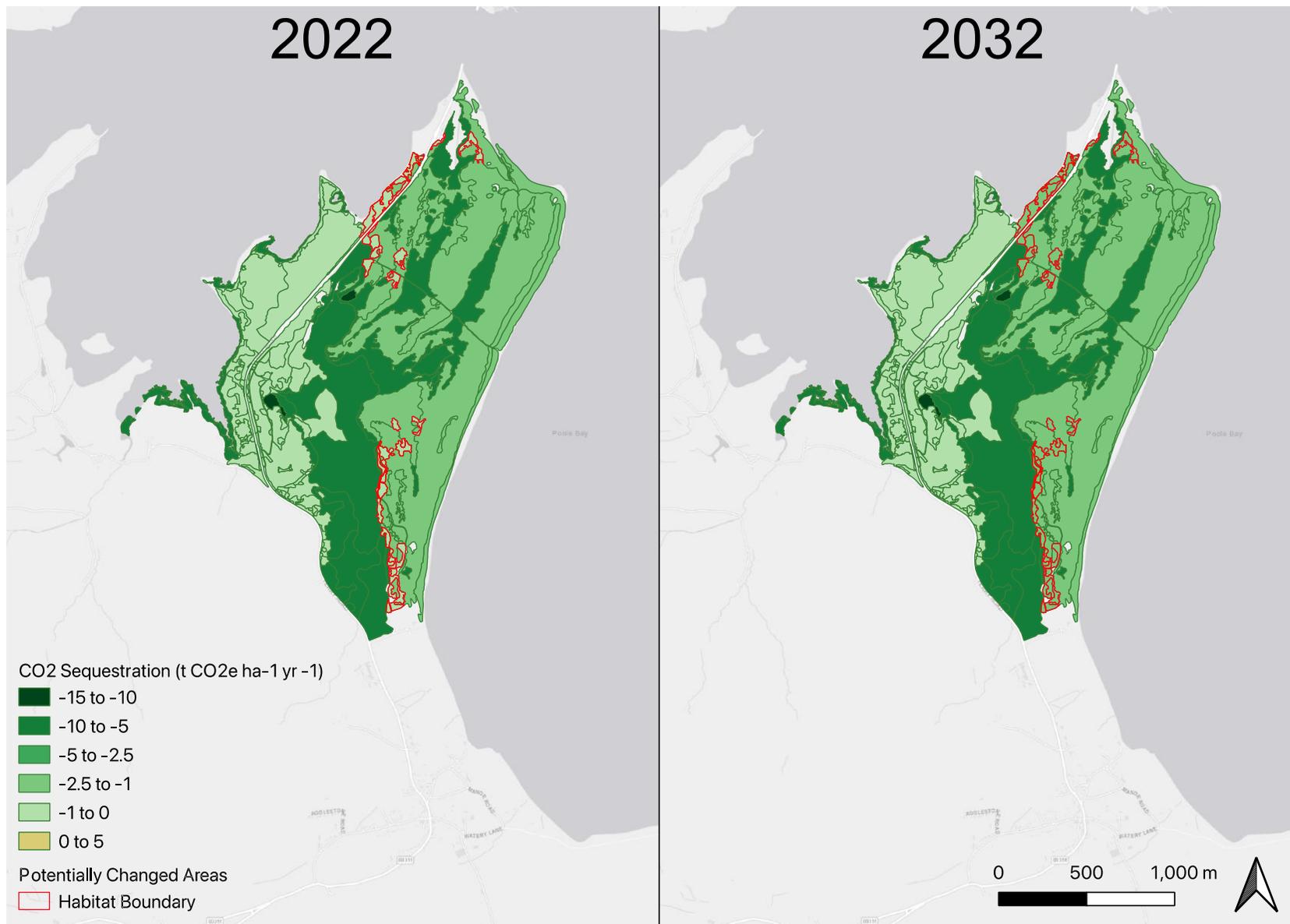


Figure s7. Sequestration rate in tonnes of CO₂e per hectare per year before (left) and after (right) suggested management changes at Studland. Scale 1:25,000.

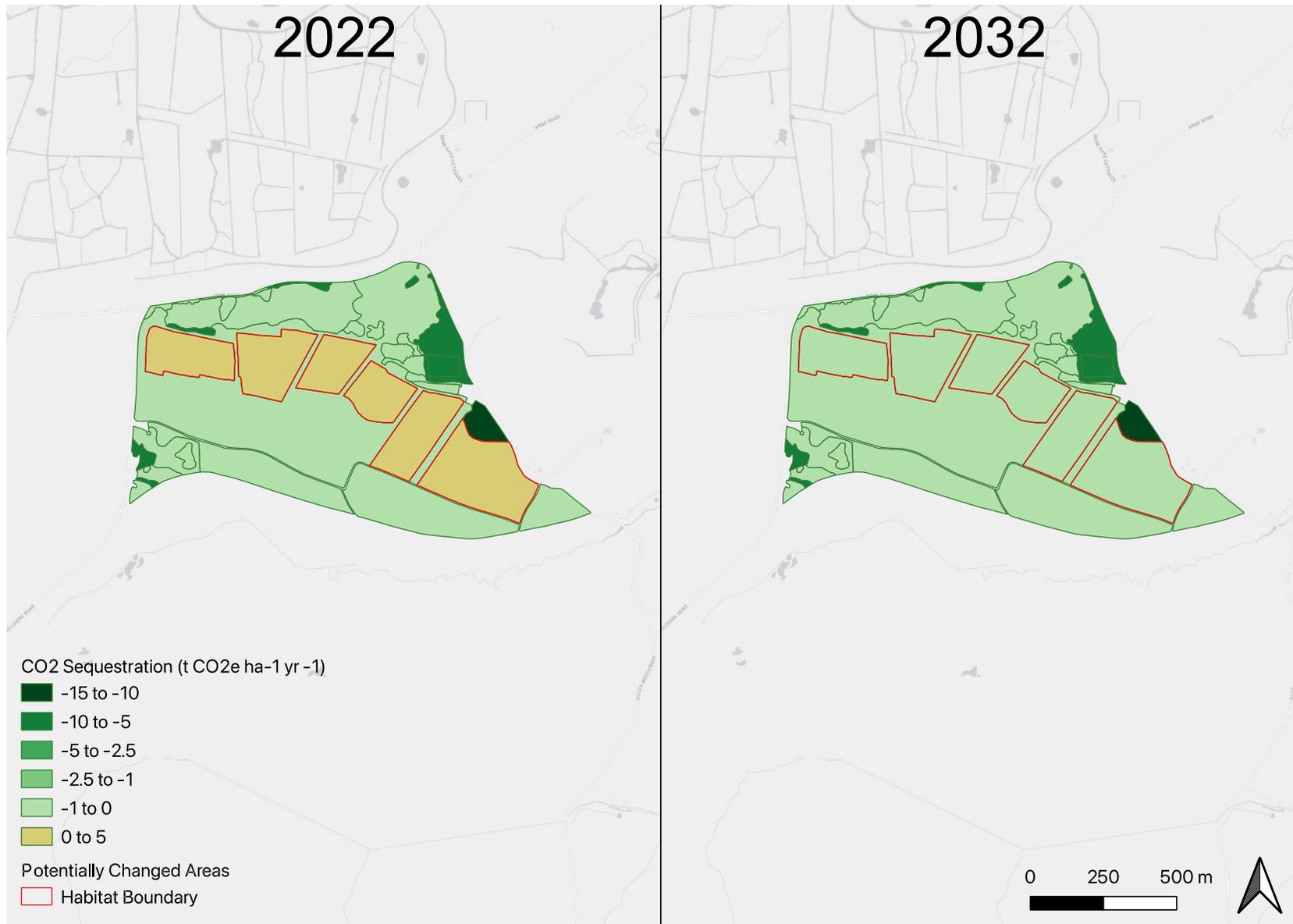


Figure s8. Sequestration rate in tonnes of CO₂e per hectare per year before (left) and after (right) suggested management changes at Slepe Heath. Scale 1:15,000.

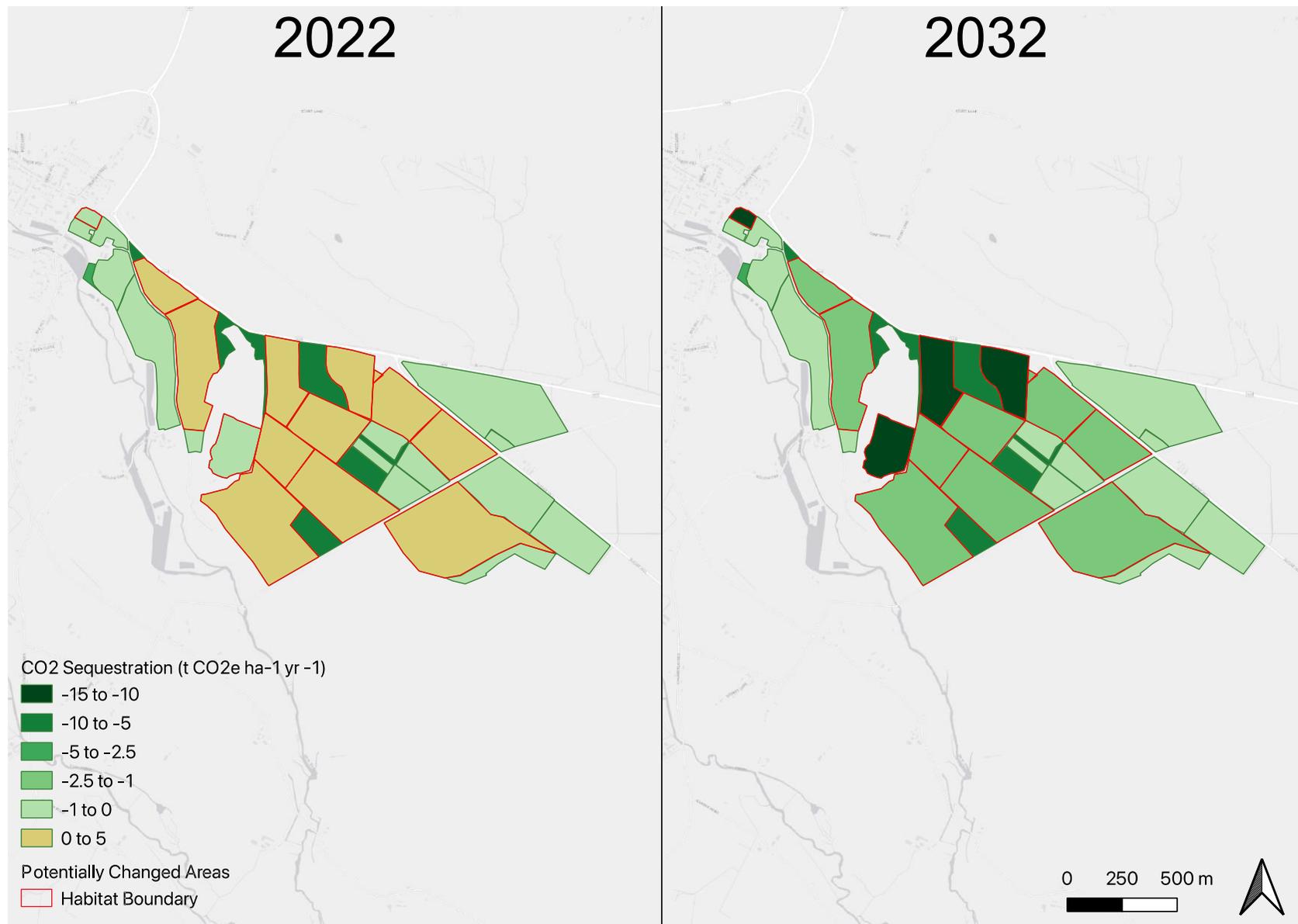


Figure s9. Sequestration rate in tonnes of CO₂e per hectare per year before (left) and after (right) suggested management changes at Wild Woodbury. Scale 1:20,000.

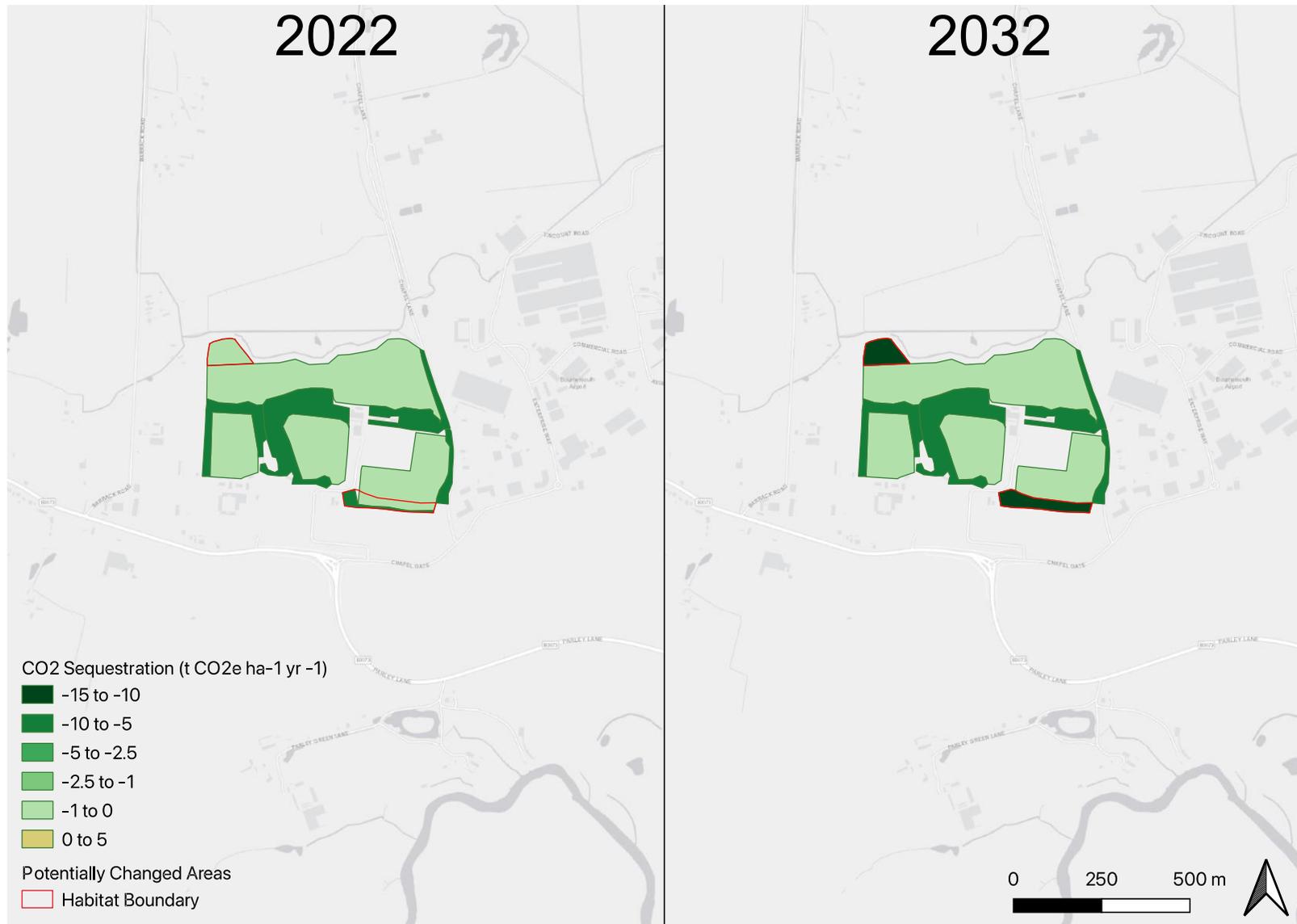


Figure s10. Sequestration rate in tonnes of CO₂e per hectare per year before (left) and after (right) suggested management changes at Chapel Gate. Scale 1:12,500.

References:

Land Research Associates, 2021. *Court Farm Soil Map and Key - MAP 2 Soil Types*. Derby: Land Research Associates.

National Trust, 2022. Unpublished data supplied by D Brown

Palmer, M. and Simms, C., 2021. *Soil Survey Report - Court Farm*. Derby: Land Research Associates. 1893/2.