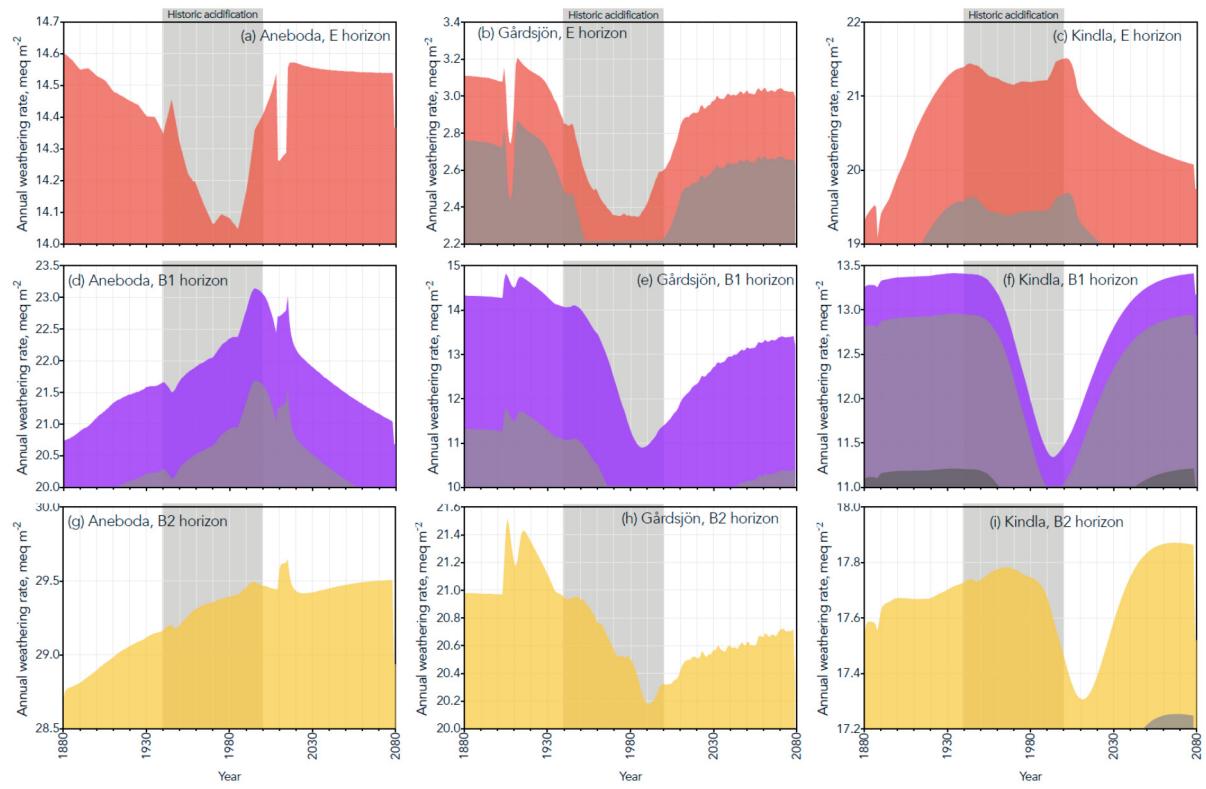
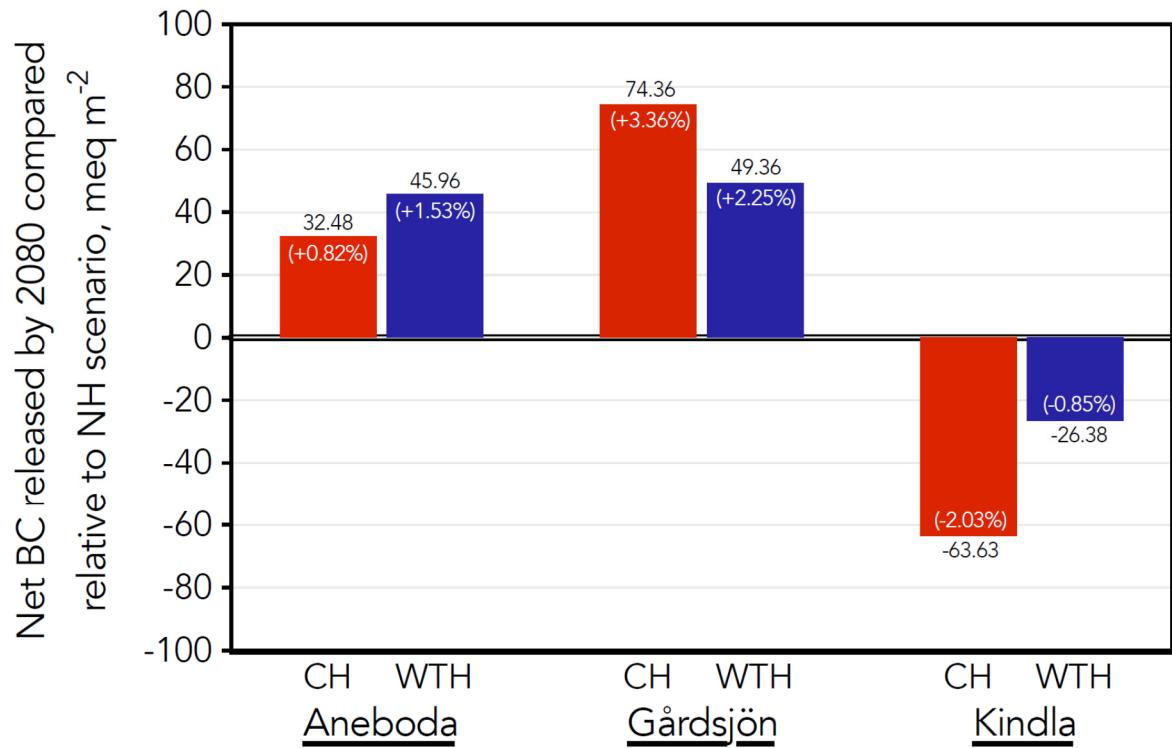


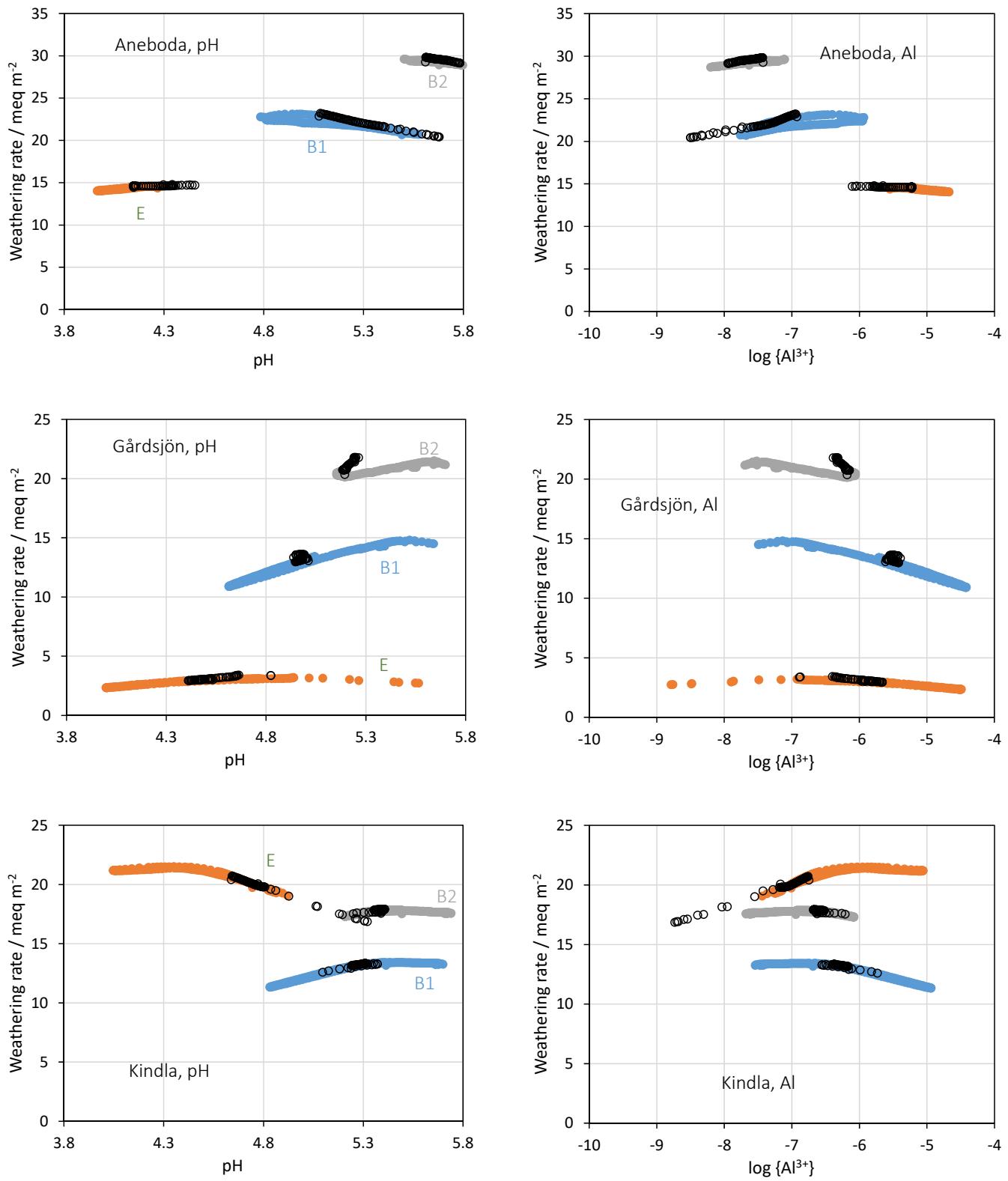
**Figure S1.** Map showing the location in Sweden of the three study areas: Aneboda, Gårdsjön, and Kindla.



**Figure S2.** Simulated base cation weathering rates in the NH scenario. The same data as in Fig. 6, but the graphs are rescaled in order to demonstrate the temporal variation.



**Figure S3.** Bar chart illustrating released base cations (BC) due to mineral weathering after harvesting (2020) by the year 2080 relative to a no harvest baseline.



**Figure S4.** Weathering rates plotted against pH (left) and  $\log \{Al^{3+}\}$  (right). Markers without a black border represent the data points in the NH scenario (1880–2080), and markers with a black border represent the WTH scenario (2020–2080).