

Supplement of Biogeosciences Discuss., 12, 13215–13240, 2015
<http://www.biogeosciences-discuss.net/12/13215/2015/>
doi:10.5194/bgd-12-13215-2015-supplement
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Supplement of

Contrasting pH buffering patterns in neutral-alkaline soils along a 3600 km transect in northern China

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Soil pH buffering in neutral-alkaline soils: insights into controlling factors across northern China

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Figure S1 Titration curves for selected carbonate containing soils (#12, #23, and #36) and non-carbonate containing soils (#45, #58 and #62). Points show data and lines show the fitted curves.

Figure S2 Relationships between soil pH buffer capacity (pHBC) at the mid-point of the titration curve and pHBC at fixed values of pH (pH 7.5 in the carbonate containing soils and pH 5 and 6 in the non-carbonate containing soils).

Figure S3 Relationships between soil clay content and cation exchange capacity (CEC) for the carbonate containing soils and the non-carbonate containing soils.

Figure S4 Soil pH buffering capacity (pHBC) as a function of pH for the carbonate containing soils (#12, #23 and #36) and the non-carbonate containing soils (#45, #58 and #62).

Figure S5 Relationships between carbonate content and initial pH along the carbonate containing soil sub-transect in northern China.

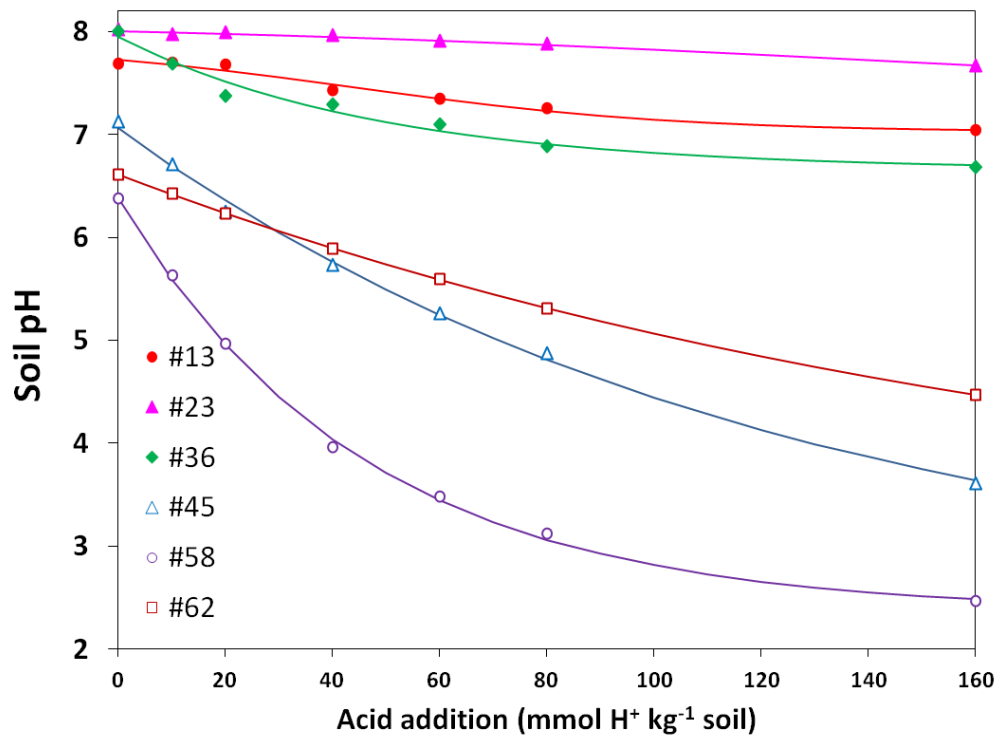


Figure S1

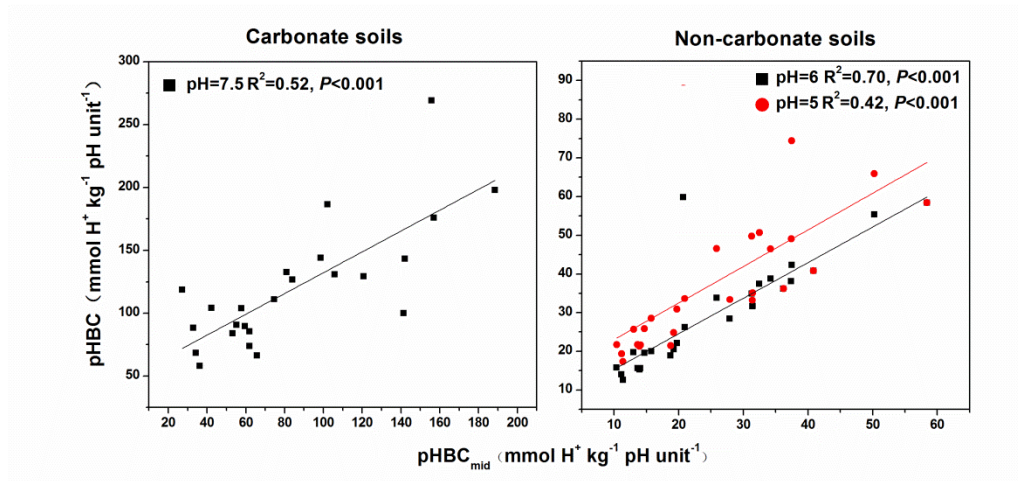


Figure S2

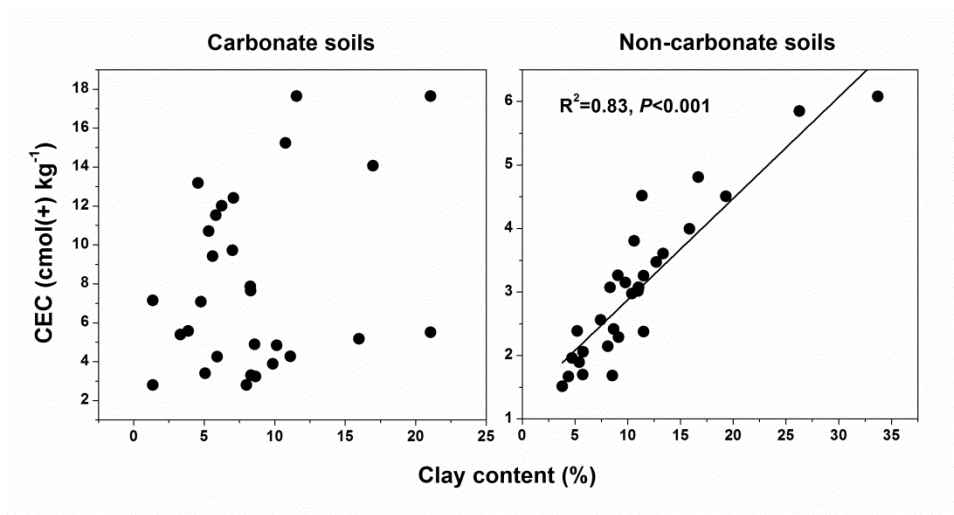


Figure S3

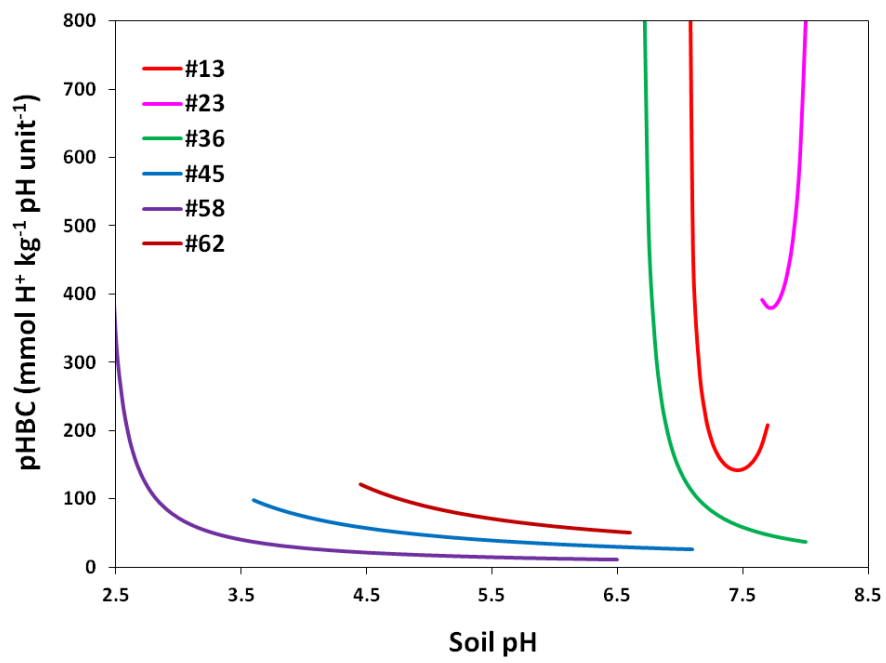


Figure S4

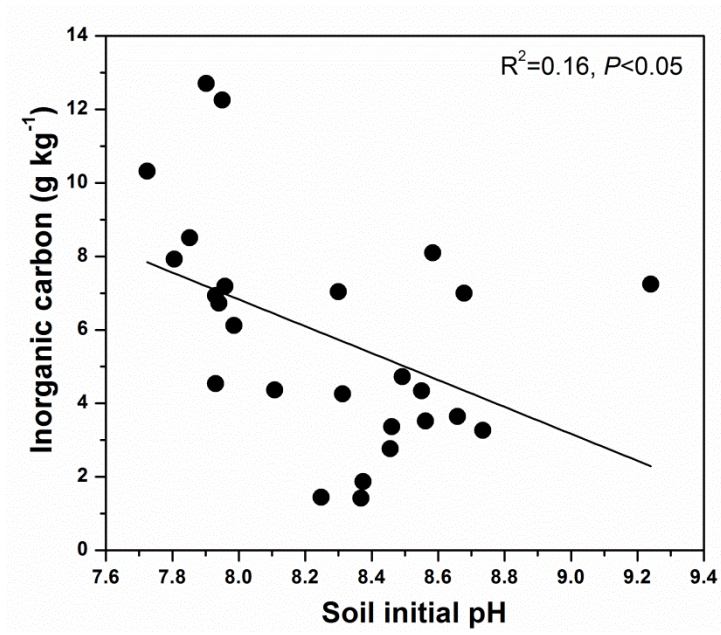


Figure S5