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Supplement of

Carbon–nitrogen coupling under three schemes of model representation: a traceability analysis

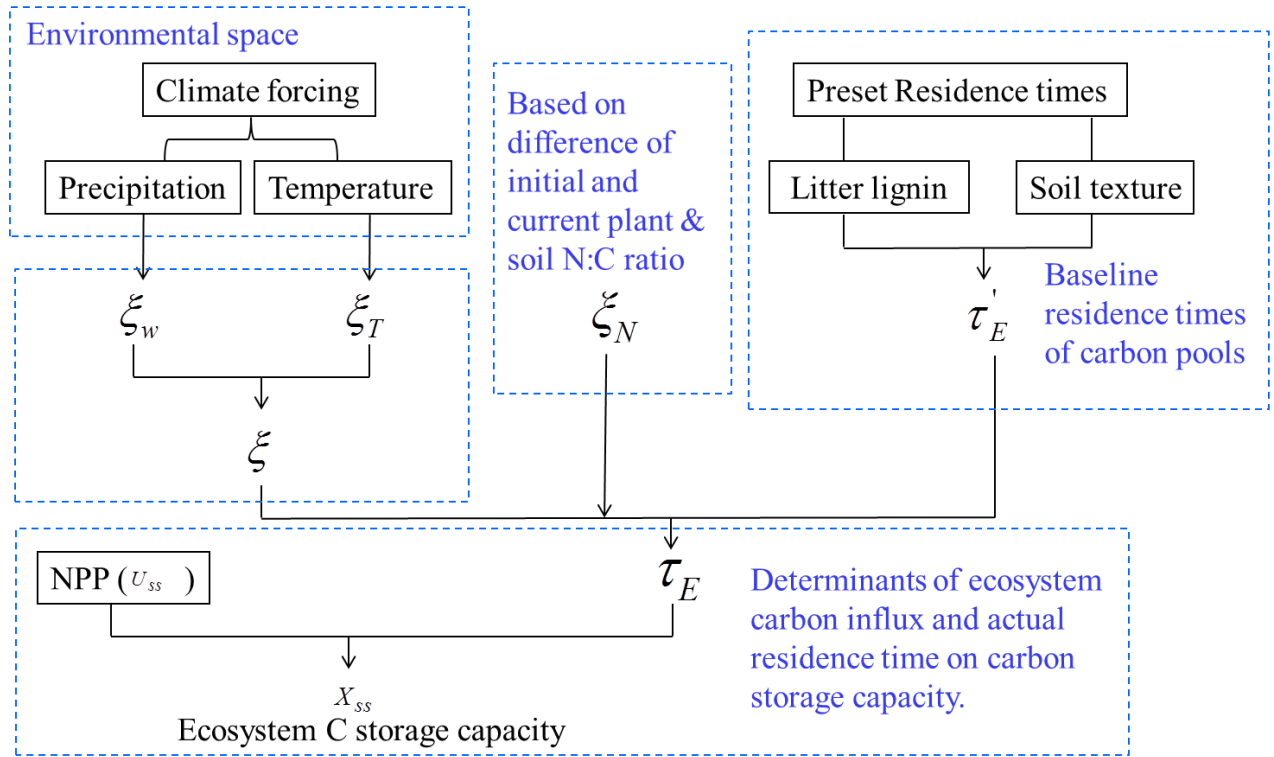
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1 **Supplemental information**

2 **Figure S1**

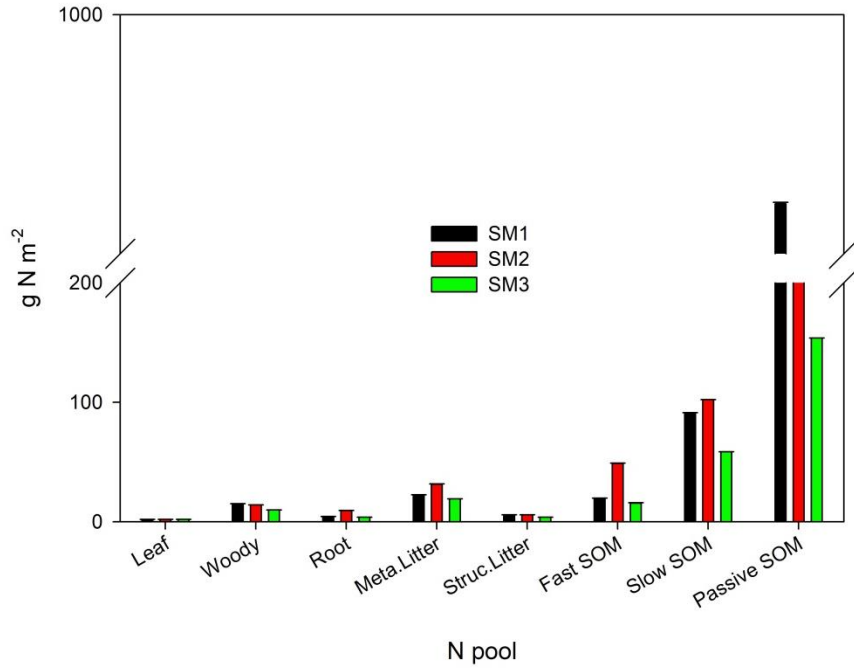


3

4 **Figure S1.** Schematic diagram of the traceability analysis framework. X_{ss} , ecosystem carbon
5 storage capacity; τ_E , ecosystem carbon residence time; τ'_E , baseline carbon residence time; ξ_N ,
6 nitrogen scalar; ξ , environmental scalar; ξ_T , temperature scalar; ξ_W , water scalar.

7

8 **Figure S2**



9

10 **Figure S2.** The annual average sizes of nitrogen for each carbon pool at the steady-state among
11 1996-2007 for the three C-N schemes (SM1, SM2 and SM3)