

Interactive comment on “Vertical partitioning of CO₂ production in a Dystric Cambisol” by Patrick Wordell-Dietrich et al.

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References cited in the response

Bowden RD, Nadelhoffer KJ, Boone RD, et al (1993) Contributions of aboveground litter, belowground litter, and root respiration to total soil respiration in a temperate mixed hardwood forest. *Can J For Res* 23:1402–1407. doi: 10.1139/x93-177

Davidson EA, Savage KE, Trumbore SE, Boroken W (2006) Vertical partitioning of CO₂ production within a temperate forest soil. *Glob Chang Biol* 12:944–956. doi: 10.1111/j.1365-2486.2006.01142.x

Fierer N, Chadwick OA, Trumbore SE (2005) Production of CO₂ in soil profiles of a California annual grassland. *Ecosystems* 8:412–429. doi: 10.1007/s10021-003-0151-

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Gaudinski JB, Trumbore SE, Davidson EA, Zheng S (2000) Soil carbon cycling in a temperate forest: radiocarbon-based estimates of residence times, sequestration rates and partitioning of fluxes. *Biogeochemistry* 51:33–69. doi: doi.org/10.1023/A:1006301010014

Hashimoto S, Tanaka N, Kume T, et al (2007) Seasonality of vertically partitioned soil CO₂ production in temperate and tropical forest. *J For Res* 12:209–221. doi: 10.1007/s10310-007-0009-9

Hirano T (2005) Seasonal and diurnal variations in topsoil and subsoil respiration under snowpack in a temperate deciduous forest. *Global Biogeochem Cycles* 19:n/a-n/a. doi: 10.1029/2004GB002259

Högberg P, Nordgren A, Buchmann N, et al (2001) Large-scale forest girdling shows that current photosynthesis drives soil respiration. *Nature* 411:789–792. doi: 10.1038/35081058

Kim H, Hirano T, Koike T, Urano S (2005) Contribution of litter CO₂ production to total soil respiration in two different deciduous forests. *Phyt - Ann Rei Bot* 45:385–388

Nadelhoffer KJ, Boone RD, Bowden RD, et al (2004) The DIRT Experiment: Litter and Root Influences on Forest Soil Organic Matter Stocks and Function. In: FOSTER DR, Aber JD (eds) *Forests in time: the environmental consequences of 1000 years of change in New England*. Yale University Press, New Haven, Connecticut, pp 300–315

Sulzman EW, Brant JB, Bowden RD, Lajtha K (2005) Contribution of aboveground litter, belowground litter, and rhizosphere respiration to total soil CO₂ efflux in an old growth coniferous forest. *Biogeochemistry* 73:231–256. doi: 10.1007/s10533-004-7314-6

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