CORRIGENDUM

Carbon changes in conterminous US forests associated with growth and major disturbances: 1992–2001

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Corrigendum

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Daolan Zheng, Linda S Heath, Mark J Ducey and James E Smith
2011 Environ. Res. Lett. 6 014012 (10pp)

The descriptors in table 1 were incorrectly assigned. The amended version can be found below:

Table 1. Forest-related land cover (km²) and carbon (1000 tonnes) changes associated with disturbances during the 9-year period (1992–2001) by region in the lower 48 US states. Aff = afforestation, Def = deforestation, Frf = forestland remaining forestland.

| Region | Aff | Def | Frf | Affb | Defc | Frfd | Harveste | Fire | Netf |
|--------|-----|-----|-----|------|------|------|----------|------|------|
| North  | 8 921 | 16 464 | 656 418 | −1.1 | 11 096 | −150 293 | 1040 591 | −297 816 | −9 561 | 594 017 | −30.0 |
| South  | 21 308 | 55 883 | 605 635 | −5.4 | 38 066 | −368 218 | 1060 052 | −783 490 | −6 980 | 60 570 | −51.4 |
| West   | 4 609 | 20 895 | 712 379 | −2.2 | 5 405 | −210 622 | 1574 857 | −198 659 | −72 890 | 1098 091 | −23.2 |
| US48   | 34 838 | 93 242 | 1974 432 | −2.9 | 54 567 | −729 133 | 3675 500 | −1279 965 | −89 431 | 1631 538 | −35.7 |

a Numbers in the parentheses indicated area changes in per cent of net forestland cover change to that without the change: (Aff − Def)/(Frf − Aff + Def) × 100.
b Carbon gains including soil carbon through afforestation were estimated using carbon accumulation tables for afforestation (Smith et al 2006), assuming the average age of 5 years for the 9-year period.
c Carbon losses through deforestation were estimated using average forest aboveground carbon density by county from the latest FIA data, assuming that 20% of the aboveground forest carbon remained after forest became nonforest. Soil carbon losses were calculated using soil carbon stocks (Smith et al 2006) and a conversion loss of 0.25 for the period.
d Carbon sequestration by forestland remaining forestland was estimated using carbon accumulation rate for reforestation (Smith et al 2006), determined by mean total live-tree biomass of the most common forest type in a given county.
e Quantification of harvest effects (excluding the amount of carbons stored in wood products and landfills) on carbon sequestration without disturbances in the parentheses as percentages, calculated as: CHarvest/(CFrft − CAff − CDef − CHarvest − CInc) × 100.
f Net change in carbon during the 9-year period = (CFrft + CAff + CDef + CHarvest + CInc). Negative numbers indicate carbon sources while positive numbers represent carbon sinks. Numbers in the parentheses are the disturbance rates in percentage of carbon change during the period, calculated as (CAff + CDef + CHarvest + CInc)/(CFrft − CAff − CDef − CHarvest − CInc) × 100. In the other words, we compared the forest carbon changes caused by disturbances during the period to the carbon change as if no disturbance had occurred.