

Soil erosion contributes significantly to global carbon emissions

June 1 2015

Soil erosion that occurs in rainy seasons leads to a significant amount of carbon being released into the atmosphere, a new study shows.

Investigators who analyzed 240 runoff plots from different regions of the world found that [organic carbon](#) losses from soils corresponds to about one-sixth of annual fossil fuel-induced [carbon emissions](#) with highest rates for semi-arid soils followed by tropical soils and temperate soils.

"The organic carbon lost from soils is more likely to reach the atmosphere under semi-arid sandy soils of weak structure compared to clayey tropical or temperate soils where organic matter is more protected," said Dr. Vincent Chaplot, co-author of the study published in *Earth Surface Processes and Landforms*.

More information: *Earth Surface Processes and Landforms*, [DOI: 10.1002/esp.3758](#)

Provided by Wiley

Citation: Soil erosion contributes significantly to global carbon emissions (2015, June 1) retrieved 26 April 2024 from <https://phys.org/news/2015-06-soil-erosion-contributes-significantly-global.html>

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