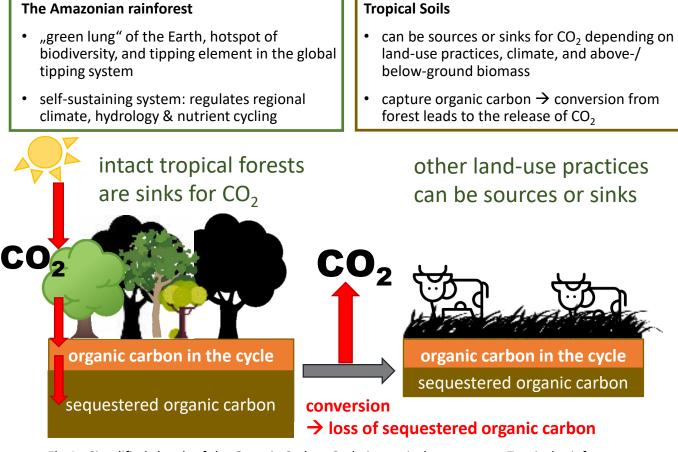


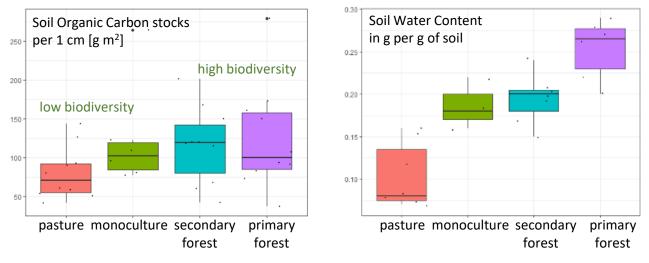


Bundesministerium für Bildung und Forschung

## **Relevance of Soils in the Context of Climate Change**



**Fig 1.:** Simplified sketch of the Organic Carbon Cycle in tropical ecosystems. Tropical rainforests store large amounts of carbon in the biomass and soil. After conversion of these forests to other land-use types, the carbon will be released as Carbon Dioxide ( $CO_2$ ) into the atmosphere driving climate change.



**Fig 2.:.** Left: Soil Organic Carbon stocks are higher in intact forests compared to other land-use practices as more organic carbon is stored. Right: Soil Water Content is higher in intact forests, as forests are self-sustaining systems regulating their own precipitation and tempera-ture, which are relevant factors in the Organic Carbon Cycle. Data from our study sites in Madre de Dios, Peru.