

Interactive comment on “Iron-Bound Organic Carbon in Forest Soils: Quantification and Characterization” by Qian Zhao et al.

Anonymous Referee #2

Received and published: 19 February 2016

The authors draw no conclusion from their data. This section needs to be revised. The current section limits itself to general statements and relatively vague summarizing sentences. In lines 309-311 the authors state that the chemical composition of Fe-bound can be substantially different and that this will have broad implications on the C biogeochemical cycles. They then demonstrate that there actually is a difference in chemical composition. The logical consequence hence is to now conclude which implications on the C cycle are to be expected from their findings. "Fe oxides can regulate the biogeochemical cycles of carbon and its response to climate change" is a very general statement and not a novel conclusion. In which way do they influence the C cycle considering that Fe-bound C is more aliphatic? "The spatial variability of Fe-bound OC is governed by the geographical factors, such as latitude and annual mean temperature, and also the soil physicochemical properties." is too general and

[Printer-friendly version](#)

[Discussion paper](#)



imprecise. In which way do they influence the spatial variability? How does this reflect on the C cycle?

Interactive comment on Biogeosciences Discuss., doi:10.5194/bg-2015-587, 2016.

BGD

Interactive
comment

Printer-friendly version

Discussion paper

