

Book review

Wörterbuch der Bodenkunde

Systematik, Genese, Eigenschaften, Ökologie und Verbreitung von Böden
mit 273 Abb., 43 Tab. und 8 Farbtafeln

Gerd Hintermaier, Erhard und Wolfgang Zech, Enke Verlag Stuttgart

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DM 68.-, ÖS 496.-; SFr. 62.-

The authors present a comprehensive volume which comprises nearly all aspects of pedology including the often complicated or even confusing systematic arrangement of soil types. All purely systematic aspects are presented in a concise and clear manner.

However, some discrepancies concerning the biotic parameters are obvious. Only the grave mistakes are listed below:

p. 8, Algen: The term "phycobionta" should be replaced by "phycophyta"; furthermore, algae are by no means only unicellular (cf. microorganisms), some brown algae (eastern Pacific) can become larger than 100 m.

p. 25, Basiphyten: The concluding reference -> "Halophyten" is wrong.

p. 27, Beryllium: "Ökotoxikologisch" instead of "Ökotoxicolisch".

p. 61, 14C: There is no ¹⁴C uptake by respiration.

p. 89, Enzymaktivität: The reference -> "Nitrogenase" is wrong, this anabolic enzyme takes part in N₂-fixation.

p. 100, Flechten: The term "Gonidien" for lichen algae is out of use, the term "photobiont" is currently in use; numerous lichens (including terricolous ones) have a homoiomerous thallus organization, i.e. algae are confined to a certain layer within the thallus.

p. 120, Halophyten: At least in Europe, only one species of *Lepidium* (*L. latifolium*) is halophytic.

p. 138, Isotopenmarkierung: "³⁵S" instead of "³⁴S" (?).

p. 187, N₂-Fixierung, biologische: A reference to cyanobacteria (blue green algae) is missing.

p. 317, Zeigerpflanzen: "*Vaccinium myrtillus*" instead of *V. myatelli*"; "*Rubus*" instead of "*Rubis*"; only 1-2 species of the genera *Silene*, *Asplenium*, *Festuca* and *Agrostis*, mentioned as heavy metal indicators, are true metallophytes; species would have been useful.

Nevertheless, the book can be recommended as a brief dictionary for everyone (e.g. ecologists) who is interested in soil sciences.

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