## CORRECTION



## Correction: Population structure of the invasive ambrosia beetle, *Euwallacea fornicatus*, indicates multiple introductions into South Africa

Anandi Bierman · Francois Roets · Iohn S. Terblanche

Received: 12 September 2022 / Accepted: 15 September 2022 / Published online: 9 October 2022 © Springer Nature Switzerland AG 2022

Correction to: Biol Invasions (2022) 24:2301–2312 https://doi.org/10.1007/s10530-022-02801-x

In "Population structure of the invasive ambrosia beetle, *Euwallacea fornicatus*, indicates multiple introductions into South Africa" (Biol Invasions 24, 2301–2312 (2022)) it was brought to the authors' attention that the presence of PSHB in Australia was described as 'established'. The paragraph reads as follows: "*Euwallaceae fornicatus* (Coleoptera: Curculionidae: Scolytinae, Xyleborini; Polyphagous Shot Hole Borer; PSHB) has become an established pest in Israel (Mendel et al. 2012), Southern California (Eskalen et al. 2012), South Africa (Paap et al. 2018), Hawaii (Rugman-Jones et al. 2020) and Australia (CABI2020; Government of Western Australia 2022) and Europe (Schuler et al. 2021, in press)."

Under the ISPM glossary of phytosanitary terms, "established" is defined as: "Perpetuation, for the

The original article can be found online at https://doi.org/ 10.1007/s10530-022-02801-x.

A. Bierman (
) · J. S. Terblanche
Centre for Invasion Biology, Department of Conservation
Ecology & Entomology, Stellenbosch University,
Stellenbosch, South Africa
e-mail: anandie@sun.ac.za

F. Roets

Department of Conservation Ecology & Entomology, Stellenbosch University, Stellenbosch, South Africa foreseeable future, of a pest within an area after entry [FAO, 1990; revised ISPM 2, 1995; IPPC, 1997" (International Standards for Phytosanitary Methods).

In correspondence with the journal, the Department of Primary Industries and Regional Development in Australia confirm that the official status of PSHB in Perth, Western Australia is listed as under 'Official Control' as defined by ISPM 5. Under the ISPM glossary of phytosanitary terms, "Official Control" is defined as: "The active enforcement of mandatory phytosanitary regulations and the application of mandatory phytosanitary procedures with the objective of eradication or containment of quarantine pests or for the management of regulated non-quarantine pests [ICPM, 2001]" (International Standards for Phytosanitary Methods).

As per these definitions, the authors would like to revise their statement that PSHB is 'established' in Australia and Europe and rephrase it to 'intercepted and detected in Australia and Europe'.

## References

CABI (2020) Euwallacea fornicatus. In: Invasive species Compend. https://www.cabi.org/isc/datas heet/57163# REF-DDB-165911

Eskalen A, Gonzalez A, Wang D et al (2012) First report of a *Fusarium* sp. and its vector tea shot hole borer (*Euwallacea fornicatus*) causing Fusarium dieback on avocado in California. Plant Dis 96:1070



A. Bierman et al.

Government of Western Australia (2022) Polyphagous shothole borer. https://www.agric.wa.gov.au/borer. Accessed 2 Mar 2022

- International Standards for Phytosanitary Methods 5, Glossary of Phytosanitary Terms; (https://www.ippc.int/static/media/files/publication/en/2018/06/ISPM\_05\_2018\_En\_Glossary\_2018-05-20\_PostCPM13\_R9GJ0UK.pdf); Accessed September 2022
- Mendel Z, Protasov A, Sharon M et al (2012) An Asian ambrosia beetle *Euwallacea fornicatus* and its novel symbiotic fungus *Fusarium* sp. pose a serious threat to the Israeli avocado industry. Phytoparasitica 40:235–238. https://doi.org/10.1007/s12600-012-0223-7
- Paap T, de Beer Z, Migliorini D et al (2018) The polyphagous shot hole borer (PSHB) and its fungal symbiont *Fusarium euwallaceae*: a new invasion in South Africa. Australas Plant Pathol 47:231–237. https://doi.org/10.1007/s13313-018-0545-0

- Rugman-Jones PF, Au M, Ebrahimi V et al (2020) One becomes two: second species of the *Euwallacea fornicatus* (Coleoptera: Curculionidae: Scolytinae) species complex is established on two Hawaiian Islands. PeerJ. https://doi.org/10.7717/peerj.9987
- Schuler H, Witkowski R, van de Vossenberg B et al (2021)
  Recent invasion and eradication of two members of the *Euwallacea fornicatus* species complex (Coleoptera: Curculionidae: Scolytinae) from tropical greenhouses in Europe. Research Square Preprint [cited Sept 2021]. https://doi.org/10.21203/rs.3.rs-640781/v2

**Publisher's Note** Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

