



OPEN ACCESS

APPROVED BY
Frontiers Editorial Office,
Frontiers Media SA, Switzerland

*CORRESPONDENCE
Gard W. Otis
✉ gotis@uoguelph.ca

RECEIVED 05 July 2023
ACCEPTED 15 August 2023
PUBLISHED 28 September 2023

CITATION
Otis GW, Taylor BA and Mattila HR (2023)
Corrigendum: Invasion potential of hornets
(Hymenoptera: Vespidae: *Vespa* spp.).
Front. Insect Sci. 3:1253176.
doi: 10.3389/finsc.2023.1253176

COPYRIGHT
© 2023 Otis, Taylor and Mattila. This is an
open-access article distributed under the
terms of the [Creative Commons Attribution
License \(CC BY\)](#). The use, distribution or
reproduction in other forums is permitted,
provided the original author(s) and the
copyright owner(s) are credited and that
the original publication in this journal is
cited, in accordance with accepted
academic practice. No use, distribution or
reproduction is permitted which does not
comply with these terms.

Corrigendum: Invasion potential of hornets (Hymenoptera: Vespidae: *Vespa* spp.)

Gard W. Otis^{1,2*}, Benjamin A. Taylor³ and Heather R. Mattila⁴

¹School of Environmental Sciences, University of Guelph, Guelph, ON, Canada, ²Institute of Bee Health, Vetsuisse Faculty, University of Bern and Agroscope, Bern, Switzerland, ³Department of Entomology, Purdue University, West Lafayette, IN, United States, ⁴Department of Biological Sciences, Wellesley College, Wellesley, MA, United States

KEYWORDS

Asian hornet, extinction vortex, giant hornet, invasion potential, invasive species, propagule pressure, *Vespa*

A Corrigendum on Invasion potential of hornets (Hymenoptera: Vespidae: *Vespa* spp.)

by Otis GW, Taylor BA and Mattila HR (2023). *Front. Insect Sci.* 3:1145158.
doi: 10.3389/finsc.2023.1145158

In the published article, there were three errors. *Vespa tropica* has been split into two species, *V. tropica* and *V. ducalis*, and the authors failed to realize this. *Vespa ducalis*, as currently recognized, occurs in temperate regions such as Japan and Korea, whereas *V. tropica* occurs in tropical and subtropical regions. Therefore, our contrasts of tropical and temperate *V. tropica* populations were unfounded.

A correction has been made to **5 Successful Invasions of *Vespa* spp.**, 5.3 *Vespa tropica*, the greater banded hornet, Paragraph 1. This sentence previously stated: “*Vespa tropica* has a broad natural distribution, from Afghanistan and Japan in the north to the tropical islands of Indonesia, the Philippines, and New Guinea in the south (46).”

The corrected sentence appears below:

“*Vespa tropica* has a broad natural distribution, from Afghanistan and Pakistan in the west to southeastern China, the Philippines, many islands of Indonesia, and New Guinea in the east (62).”

A correction has been made to **5 Successful Invasions of *Vespa* spp.**, 5.3 *Vespa tropica*, the greater banded hornet, Paragraph 2. This sentence previously stated: “Specification of the source population during model training may be necessary due to ecological differences between temperate and tropical populations.”

The corrected sentence appears below:

“Specification of the source population during model training may be necessary due to ecological differences between different geographic populations.”

A correction has been made to **7 Discussion**, Paragraph 2. This section previously stated: “For example, the natural history information we have about *V. tropica* comes predominantly from studies in Japan. However, applying that knowledge to the invasion by this species in Guam would be of little value if the hornets that colonized the island arrived from a tropical

locality such as Manila, Bangkok, or Chennai. For instance, mature *V. tropica* colonies in Japan are monogynous, have combs with a few hundred cells, and rear only a few dozen new gynes (2). In contrast, colonies in tropical Sumatra may be polygynous, construct more than 5000 cells, and produce several hundred gynes (74).”

The corrected section appears below:

“For example, the limited natural history information we have about *V. tropica* comes from Sumatra, Indonesia (74). Applying that knowledge to the invasion of Guam by *V. tropica* would be of little value if the hornets that colonized the island arrived from a location such as Hong Kong, Hanoi, or Chennai, and their ecology, behavior, and genetics in that source location differed greatly from those of the population on Guam.”

The authors apologize for these errors and state that they do not change the scientific conclusions of the article in any way. The original article has been updated.

Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.