December 25, 2018

Discovery of *Phrissoderes minor* (Coleoptera, Curculionidae, Baridinae) from Honshu, Japan

Tsutomu TAKANO¹⁾, Hiraku YOSHITAKE^{2)*} and Hideaki GOTO³⁾

¹⁾Center for Biodiversity, Forestry and Forest Products Research Institute, 1 Matsunosato, Tsukuba, Ibaraki, 305–8687 Japan

²⁾ Tropical Crop Protection Group, Division of Agro-Environment Research, Kyushu Okinawa

Agricultural Research Center, NARO, 820 Makabe, Itoman, Okinawa, 901-0336 Japan

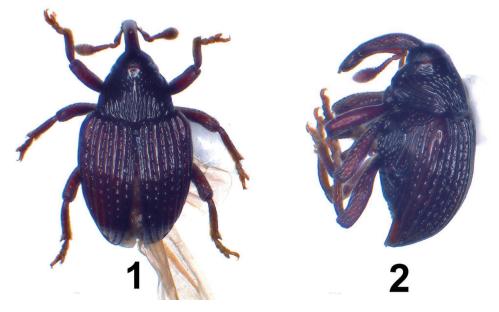
*Corresponding author

³⁾ Forest Zoology Group, Forestry and Forest Products Research Institute, Kyushu Research Center, 4–11–16 Kurokami, Chuo, Kumamoto, Kumamoto, 860–0862 Japan

Phrissoderes minor, a curculionid weevil belonging to the subfamily Baridinae, was described from "Mt. Terukubi, Okinawa Is.", the Ryukyus, Japan, based on a female specimen obtained by sifting litter on a forest floor (YOSHIHARA, 2016). Soon after the original description, two examples collected with a flight intercept trap were recorded from Fukuoka Prefecture, Kyushu, Japan (KIDO, 2016).

Recently, we found six specimens of this species in insect samples collected in 2002 with malaise traps set in twelve-year-old broad-leaved natural forests in northeastern part of Ibaraki Prefecture, Honshu, Japan (see MAKINO *et al.*, 2007 for details of the collection sites).

Here we record them as the first record of *P. minor* from Honshu. In addition, one additional specimen collected with an emergence trap from Yambaru, the forested northern part of Okinawajima Is., is also recorded as the second record of this species from the island.



Figs. 1–2. *Phrissoderes minor* YOSHIHARA from Ibaraki Pref., Honshu, Japan. — 1, Dorsal habitus; 2, lateral habitus.

The examined specimens were found from insect samples collected in the course of the research projects "Sustainability and biodiversity assessment on forest utilization options (Research Institute for Humanity and Nature)", "Development of ecofriendly management technology of water and agro-forested-aquaecosystems in watershed and estuary areas (Ministry of Agriculture, Forestry and Fisheries, Japan)", and "Assessment of human impacts on the forest biodiversity and development of mitigation techniques in Yambaru, northern part of Okinawa Island (Ministry of the Environment)".

Phrissoderes minor YOSHIHARA, 2016

(Figs. 1 & 2)

Phrissoderes minor YOSHIHARA, 2016, 27 (type locality: "Mt. Terukubi, Okinawa Is."), figs. 253 (dorsal habitus) & 309 (lateral habitus); KIDO, 2016, 55 (record from Fukuoka Pref., Kyushu); ALONSO-ZARAZAGA et al., 2017, 128 ("A: JA (Okinawa I.)").

Specimens examined. Japan: Honshu. Ogawa, Kitaibaraki-shi, Ibaraki Pref.: 5 exs., 21.V.–5.VI.2002, H. GOTO leg.; 1 ex., 2–18.VII.2002, H. GOTO leg. The Ryukyus: 1 ex., nr Mt. Nishime-dake, Kunigami-son, Oki-nawajima Is., 18.II.–20.IV.2006, H. GOTO leg.

Distribution. Japan (Honshu, Kyushu, and the Ryukyus).

Notes. The specimens from Ibaraki Prefecture represent the northernmost record of *Phrissoderes minor*. There is a considerable geographical gap between the previously known range and new locality of this species, but we could not find any remarkable morphological differences between the specimens from Okinawajima Is. and Ibaraki Prefecture. Further survey is necessary to fill the distribution gap of the species between Fukuoka and Ibaraki Prefectures.

References

ALONSO-ZARAZAGA, M. A., H. BARRIOS, R. BOROVEC, P. BOUCHARD, R. CALDARA, E. COLONNELLI, L. GÜLTEKIN, P. HLAVÁČ, B. KOROTYAEV, C. H. C. LYAL, A. MACHADO, M. MEREGALLI, H. PIEROTTI, L. REN, M. SÁNCHEZ-RUIZ, A. SFORZI, H. SILFVER-BERG, J. SKUHROVEC, M. TRÝZNA, A. J. VELÁZQUEZ DE CASTRO & N. N. YUNAKOV, 2017. Cooperative Catalogue of Palaearctic Coleoptera Curculionoidea [online]. *Monografias Electrónicas S. E. A.*, 8. 729 pp. Sociedad Entomológica Aragonesa, Zaragoza. Available from: http://sea-entomologia.org/PDF/MeSEA_8_Catalogue_Palaeartic_Curculionoidea.pdf [accessed on 25 September 2018].

KIDO, K., 2016. [Records of three Baridinae species from Fukuoka Prefecture.] Gekkan-Mushi, Tokyo, (546): 55. (In Japanese.)

MAKINO, S., H. GOTO, M. HASEGAWA, K. OKABE, H. TANAKA, T. INOUE & I. OKOCHI, 2007. Degradation of longicorn beetle (Coleoptera, Cerambycidae, Disteniidae) fauna caused by conversion from broad-leaved to man-made conifer stands of *Cryptomeria japonica* (Taxodiaceae) in central Japan. *Ecological Research*, *Tokyo*, 22: 372–381.

YOSHIHARA, K., 2016. The Insects of Japan, 6. Coleoptera, Curculionidae, Baridinae. 171 pp., 10 pls. Touka Shobo, Fukuoka.

Manuscript received 28 September 2018; revised and accepted 3 October 2018.