

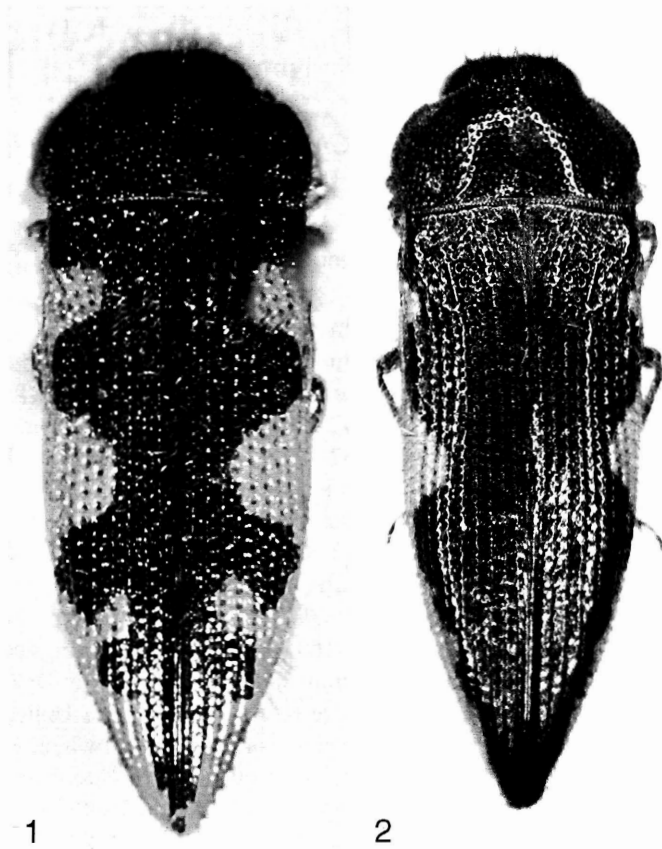
## Scientific Note

### THE REDISCOVERY OF *ACMAEODERA HORNI* FALL (COLEOPTERA: BUPRESTIDAE)

*Acmaeodera horni* Fall, 1899 (Fall, H. C. 1899. Synopsis of the species of *Acmaeodera* of America North of Mexico. J. N. Y. Ent. Soc. 7(1): 1–37), has been one of the most enigmatic North American buprestid taxa. Some references to this species are confusing and need explanation: Chamberlin's catalog (Chamberlin, W. J. 1926. Catalogue of the Buprestidae of North America north of Mexico. W. J. Chamberlin, Corvallis, Oregon. 289 pp. + 1 pg. index) references to Kerremans (Kerremans, C. 1900. Buprestides nouvelles et remarques synonymiques. Ann. Soc. Ent. Belg. 44: 282–351; 1903. Coleoptera Serricornia, Fam. Buprestidae. In: Wytzman, P. (ed.). Genera Insectorum, Fasc. 12b; 12c; 12d. Verteneuil & Desmet, Bruxelles, pp. 49–338) under *A. horni* actually refer to *Agrilus horni* Kerremans, 1900. Woodworth (Woodworth, C. W. 1913. Guide to California Insects. Law Press, Berkeley, 360 pp., 132 figs.), overlooked by Chamberlin (1926), listed *Acmaeodera horni* from California, as did Chamberlin (Chamberlin, W. J. 1917. Notes on some Buprestidae of Northern California (Col.). Ent. News 28: 166–169). However, these listings certainly are in error or confused with a Californian species, most likely *A. sinuata* Van Dyke, 1919 (Van Dyke, E. C. 1919. New species of Buprestidae (Col.) from western United States with supplementary notes concerning others. Ent. News 30(6): 151–156) which was compared with *A. horni* at the time of its description. All subsequent listings are from checklists or catalogs (e.g., Obenberger, J. 1926. Buprestidae 1. In: Junk, W., Schlenkling, S. (Eds.). Coleopterorum Catalogus, W. Junk, Berlin, 84: 1–212; Barr, W. F. 1941. Distributional notes and new records of *Acmaeodera* (Coleoptera, Buprestidae). Pan-Pacific Entomol. 17(2): 62–69).

Other than the erroneous listings from California, *Acmaeodera horni* was known only by the holotype (ANSP) from "Arizona" until 1983, when W. F. Barr located a specimen among undetermined beetles in UAIC. It bore specific locality data which enabled us to rediscover this interesting "lost" species. New records are as follows: ARIZONA, [Pima Co.] Oracle-Mt. Lemmon Rd., Daryl Mine G[rou]p., 6100', Sta. Catalina Mts., 23-IV-78, M. Hetz (UAIC); Pima Co., Santa Catalina Mts., Oracle-Mt. Lemmon Road, Marble Peak, Leatherwood Mine Group/1850–2000 m, N32°27'49", W110°44'06", 28-IV-2001, on *Quercus* spp., C. L. Bellamy, R. L. Westcott (CLBC, RLWE). The latter locality is located in an area of mixed oak woodland/chaparral with a few pines. More specifically, the specimens were collected where the vegetation consisted mostly of oak, with some chaparral shrubs such as *Arctostaphylos* sp. and *Cercocarpus montanus* Raf., along a steep track to a mine shaft, mostly on or flying about *Quercus arizonicus* Sarg.; some were observed feeding on staminate flowers of that plant, while others were taken on *Quercus emoryi* Torr. Tragically, this area was burned by the large "Bullock Fire" of spring, 2002. Most ground and surface fuels were totally consumed and an estimated 40–45% of the canopy was burnt (James Etshokin, U.S. Forest Service, in litt.).

Only one of the eight specimens studied approaches the extent of elytral maculation exhibited on the holotype (Fig. 1). These lateral markings extend uninterrupted along the margin, ending just behind the umbone, with one exception that attains it; the anterior end may or may not (Fig. 2) be expanded. Two specimens bear a yellow spot in the humeral angle. Length ranges from 8.7 mm to 11.8 mm. This species is peculiar in our fauna and



Figures 1–2. *Acmaeodera horni* Fall. Figure 1. holotype (ANSP) dorsal view (photograph by W. F. Barr). Figure 2. dorsal view of specimen collected in the Santa Catalina Mts., Pima Co., Arizona, 2001 (photograph by C. L. Bellamy).

we cannot satisfactorily relate it to any other. Structurally, it appears closest to *A. cuneata* Fall; however, the distinctive elytral markings will separate *A. horni* immediately.

The collection abbreviations used herein are: ANSP: Academy of Natural Sciences, Philadelphia, Pennsylvania; CLBC, RLWE: our respective research collections (see addresses below); UAIC: University of Arizona, Tucson.

*Acknowledgments.*—We thank Kevin C. Nixon, Dept. of Plant Biology, Cornell University, for identification of the oak species. Special thanks go to our esteemed colleague, William F. Barr, for his keen eye in locating the specimen at UAIC, for information about the general area where it was collected, and for allowing us to use his photograph of the holotype.

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*Received 20 Feb 2004; Accepted 22 March 2004.*