NOTE

First record of *Buprestis consularis* (Coleoptera: Buprestidae) in New Brunswick and Atlantic Canada

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*Buprestis consularis* Gory 1840 (Coleoptera: Buprestidae) is distinguished from similar *Buprestis* spp. occurring in the Atlantic Provinces by the presence of 3-4 transverse elytral maculae, a dark bronze integument and five impunctate longitudinal stripes along an otherwise punctate pronotum. Some authors considered *Buprestis consularis* an infraspecific form (e.g., Chamberlin 1926) of *Buprestis nutalli* Kirby, while others have elected for synonymy (e.g., Bright 1987). However, more contemporary (and some earlier) workers split these taxa on the basis of differing genitalia and thoracic coloration (Knell 1947; R.L. Westcott, Oregon Department of Agriculture (ODA), personal communication). A recent comparative analysis of DNA barcodes supports this latter taxonomic arrangement (J.R. deWaard, Biodiversity Institute of Ontario (BIO), personal communication). *Buprestis consularis* has hitherto remained unrecorded from the Atlantic Provinces of Canada, although the species is known from Québec and Ontario (Paiero et al. 2012; Bousquet et al. 2013) and occurs throughout eastern United States (Nelson et al. 2008).

An adult specimen of *Buprestis consularis* in the Biodiversity Institute of Ontario (BOLD Systems; Process ID: BBCEC064-09; Sample ID: 09BBECO-0064) was collected in a mixed forest setting by BIObus surveyors on 19 August 2009 along Osprey Trail, Kouchibouguac National Park, Kent County, New Brunswick (46.836°N, 64.939°W). The author collected a second adult specimen of *Buprestis consularis* (♀; Figure 1) on a coniferous log on 4 August 2014 at Johnson’s Lumber Supplies sawmill yard, Browns Flat, Kings County, New Brunswick (45.467052°N, 66.138806°W). The above records of *Buprestis consularis* represent the first for New Brunswick and Atlantic Canada. Additional conifer-associated Coleoptera collected at the sawmill yard site included *Stictoleptura canadensis* (Olivier), *Neoclytus leucozonus* (Laporte and Gory), *Xylotrechus integer* (Haldeman) (Cerambycidae); and, *Chrysobothris* spp. and *Buprestis maculativentris* Say (Buprestidae).

Larval *Buprestis consularis* develop in dead or dying (Bright 1987) members of the pine family (Pinaceae) including the New Brunswick natives *Picea glauca* (Moench) Voss, *Pinus resinosa* Aiton (Paiero et al. 2012) and possibly *Abies balsamea* (L.) (Chamberlin 1926; Bright 1987). Wellso et al. (1976) found that Michigan occurrences of *Buprestis consularis* ranged from July through the first half of August. The species is rarely observed (Frost 1915; Paiero et al. 2012). Paiero et al. (2012) recorded *Buprestis maculativentris* Say, *Buprestis striata* Fabricius and *Buprestis fasciata* Fabricius from New Brunswick. *Buprestis sulcicollis* (LeConte) has since been added to the provincial list along with eight buprestid species from other genera (Webster and DeMerchant 2012). Despite this recent work on buprestids in New Brunswick, future surveying efforts may yet reveal the presence of additional species in the province.

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REFERENCES


Figure 1. Dorsal (A) and ventral (B) views of *Buprestis consularis* (NBM 44755) collected 4 August 2014 at a sawmill yard in Browns Flat, Kings County, New Brunswick (45.467052°N, 66.138806°W).


