An Attack on a Centipede Snake (Tantilla cf. schistosa) by Soldier Ants (Eciton burchellii) in Honduras

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Soldier ants of the genus Eciton are among the most voracious insects in Neotropical forests (Pérez-Espona 2021), largely due to their extensive hunting forays (e.g., Andersen 1997; Pérez-Espona 2021), with some species, such as E. burchellii, known to attack and kill chicks, lizards, and snakes (e.g., Schneirla 1956; O’Donnell et al. 2005). Recently, Sazima (2015) documented predation on Hemidactylus mabouia and an unidentified snake and Sazima (2017) reported consumption of Gymnophthalmus darwinii in Brazil. Herein we describe a hunting foray by E. burchellii during which the ants attacked and possibly killed a snake in Honduras.

At 1307 h on 16 September 2023 at 1307 h in La Muralla Wildlife Refuge, Department of Olancho, Honduras (15.037235, -86.797315; 725 m asl), we encountered a large number of soldier ants (E. burchellii) covering much of the street and observed consumption of a small insect (Fig. 1A). After a few minutes, we saw a Centipede Snake (probably a Red Earth Centipede Snake, Tantilla schistosa; Fig. 1B) emerge from the leaf litter followed by many ants. The ants tried to surround the snake but we intervened. Upon capturing the snake, we noticed that several ants were attached to its body. The ants were collected in plastic vials containing 80% ethanol and identified using Maes and Mackay (1993), before being deposited at the Museo de Entomología de la Universidad Nacional Autónoma de Honduras (CU-UNAH). The snake escaped from the ants.

Soldier ants of the Dorylinae subfamily are well known for being voracious predators, devouring a wide variety of

Figure 1. A) soldier ants (E. burchellii) feeding on an insect. B) Tantilla cf. schistosa moments after the movement of the soldier ant. Photographs by Alex M. Cubas-Rodríguez.
arthropods during their foraging raids. Currently, many representatives of this group, particularly from the genera *Dorylus* Fabricius 1793, *Cheliomyrmex* Mayr 1870, and *Eciton* (Schneirla 1956; O’Donnell et al. 2005; Sazima 2015, 2017) have been reported to feed on a variety of prey. Feeding on vertebrates is facilitated by the presence of toxins (group of peptides) loaded with protease, which is released in the process of stinging and subjugating prey (Gotwald 1995; Sazima 2015). Knowledge about these interactions is still scarce to date; only three events documented in Brazil by Sazima (2015, 2017) are recognized. More studies are needed to better understand predator-prey interactions between ants and snakes.

In summary, the observation reported here expands the list of possible predators of terrestrial snakes of the genus *Tantilla* in the Neotropical region, and supports the second officially published record that mentions attempted snake predation by *E. burchelli*.

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**Literature Cited**


