First record of the Mourning Gecko, *Lepidodactylus lugubris* (Duméril & Bibron), from the Turks and Caicos Islands with additional observations from the Bahamas

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The Mourning Gecko, *Lepidodactylus lugubris*, while native to coastal areas and islands within the Pacific and Indian Oceans, has spread to tropical and sub-tropical portions of the world via human activities such as transoceanic shipping. Henderson *et al.* (1976) noted the first Atlantic Basin record in the Western Hemisphere, in Nicaragua. Lorvelec *et al.* (2011, 2017) summarized observations in the Western Hemisphere with the addition of new records from locations on Guadeloupe. Krysko & MacKenzie-Krysko (2016) reported additional records from North Bimini in the Bahamas and Bosch & Paez (2017) noted the species’ presence in Cuba. Herein, we report the first record of *L. lugubris* from the Turks and Caicos Islands and two additional locations in the Bahamas situated ~210 km ESE and ~344 km SE of the location reported by Krysko & MacKenzie-Krysko (2016). We believe that our new records of *L. lugubris* are clone type A based on external morphology (Yamashiro *et al.* 2000; Hoogmoed & Avila-Pires 2015; Ineich 2015; Griffing *et al.* 2018) and that is consistent with individuals reported from nearby locations (Krysko & MacKenzie-Krysko 2016; Bosch & Paez 2017).

On 16 October 2015 we encountered two *Lepidodactylus lugubris* under a pile of boards and plastic adjacent to *Bourreria ovata* and *Metopium toxiferum* clumps near Sapodilla Bay, Providenciales, Turks and Caicos Islands (21.74089, -72.28417) (Fig. 1A; East Stroudsburg University of Pennsylvania photo voucher ESUP R00231). This observation marks the first record for the Turks and Caicos Islands and the second observation in the Lucayan Archipelago. The location is only ~250 m WNW of South Dock, a core municipal seaport for the Turks & Caicos Islands. As transoceanic shipping appears to be one of the main modes of introduction for the species, the proximity to the port is unsurprising. *Hemidactylus mabouia* co-occurred with *L. lugubris* at the observation point. We did not observe *L. lugubris* in other portions of Providenciales, North Caicos, or Middle Caicos, although we did not make an exhaustive search for the species. We frequently observed *H. mabouia* throughout Providenciales, North Caicos, and Middle Caicos.

On 1 February 2018 we encountered a single juvenile *L. lugubris* (Clone A) under a board ~350 m SSW of Black Point dock, Black Point District, Great Guana Cay, Exuma Islands, Bahamas (24.09570, -76.40261) (ESUP R00232, photo voucher). This observation marks the second record for the Bahamas, an extension of ~344 km SE of the Krysko & MacKenzie-Krysko (2016) observation in North Bimini, Bahamas. On 3 February 2018, we encountered seven adult *L. lugubris* (Clone A) in association with boards, a pallet, and other flotsam wedged against a shrub clump in a small sea-side park on Paradise Island, New Providence, Bahamas (25.08181, -77.32931) (Fig. 1B; photo voucher ESUP R00231). Two of the seven adults were found under a small clump of wet plastic lodged in the crotch of a mature *Coccoloba uvifera*. *Hemidactylus mabouia* co-occurred with *L. lugubris* at the observation point. This record is the third observation in the Bahamas, >144 km NW of the Black Point District observation (above), and >210 km ESE of the Krysko & MacKenzie-Krysko (2016) observation in North Bimini, Bahamas. The
observation point is located across a narrow channel from Nassau (New Providence Island) Port, one of the busiest ports in the West Indies.

The documentation of *L. lugubris* on several widely distributed islands suggests that the species may be present throughout developed areas in the Bahamas. The Paradise Island observation point is situated <0.5 km from Nassau, New Providence Island, and presumably the species is also found on that island. Bridges and substantial boat traffic connect islands in the Bahamas, and Nassau may have been the point of introduction for *L. lugubris* on Paradise Island, although we did not conduct searches on New Providence Island for *L. lugubris*.

![Figure 1. Adult mourning geckos (*Lepidodactylus lugubris*) from (A) Providenciales, Turks and Caicos Islands and (B) Paradise Island, Bahamas.](image)

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