Swimming in the Northern Tamandua (Tamandua mexicana) in Panama

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Abstract

The ability to swim has been well documented in many species of the order Xenarthra but the literature implies that wild Tamandua anteaters avoid the water. On 26 January 2010, while driving a boat across the Panama Canal (9°10′40″N, 79°50′01″W), the authors witnessed an adult Tamandua swimming 120 m offshore, in a straight line towards Barro Colorado Island, still 280 m away. The tamandua was swimming without any difficulty and its choice of crossing the canal at a very narrow point suggests that the animal had knowledge of the topography. It is very likely that other crossing points exist and that there is regular exchange between populations of tamanduas living on the mainland and the island, as is the case with other mammals.

Keywords: Tamandua mexicana, Panama Canal, Barro Colorado Island, swimming, anteater

Swimming has been well documented in a number of xenarthran species, including giant anteaters (Myrmecophaga tridactyla; da Silveira, 1968; Montgomery and Lubin, 1985; Nowak, 1999), sloths (Bradypus variegatus and Choloepus hoffmanni; Beebe, 1926; Anderson and Handley, 2001) and some armadillos (Dasypus spp.; Moeller, 1975) but the literature implies that wild Tamandua anteaters avoid the water (Montgomery, 1985; Eisenberg, 1989; Rodrigues et al., 2001). Northern tamanduas (Tamandua mexicana) have been studied primarily on Barro Colorado Island (9°09′N, 79°51′W), a 1562-ha hilltop in Gatun Lake in central Panama (da Silveira, 1968; Montgomery and Lubin, 1977). The island was formed by the damming of the Chagres River that created the Panama Canal in 1912 (Dietrich et al., 1982) and is separated from the surrounding mainland by 200–1000 m, so that island populations of mammals are not completely isolated (Wright et al., 1994). Although tamanduas have not been seen in open water in the past, a researcher working at the site watched a tamandua enter one of the lake inlets between the island’s peninsulas and swim across (K. Reiss, pers. comm.). Movement across the canal has not been explicitly measured for the vast majority of mammals, but individuals may take the plunge to gain access to food or mates, disperse or escape predators.

While driving a small boat in Gatun Lake (9°10′40″N, 79°50′01″W), at 13:30 h on 26 January 2010, H.E. and Y.L. witnessed an adult Tamandua swimming across the Panama Canal. The animal was coming from the direction of Buena Vista, the nearest mainland peninsula at a distance of approximately 120 m, and was swimming directly towards Barro Colorado Island which was still another 280 m away (Fig. 1). The tamandua was swimming with most of its long snout above the water, while the rest of its body was completely submerged, but it did not appear to be having any difficulties. Its choice of crossing the canal at a very narrow point suggests that the anteater had knowledge of the topography, possibly from previous experience.

H.E. and Y.L. decided to put the animal into the boat and drive it across the channel because they feared that an oncoming tanker ship might drown the anteater in its massive wake. As soon as they extended one of the paddles in the water near the animal it grasped onto it and climbed into the boat. As the authors continued across the canal, the tamandua tried to jump out of the boat several times and was eventually successful, immediately orienting towards the island and swimming in a straight line the remaining 50 m to the shore (Fig. 1). The anteater was last seen clinging to some low overhanging branches and pulling itself out of the water.

While we cannot be certain that the anteater would have made it across the canal without assistance, it certainly behaved as though it was a strong swimmer and comfortable in the water. It is very likely that other crossing points exist and that there is regular exchange between populations of tamanduas living on the mainland and the island, which would reduce the genetic isolation of the island population. If a willingness to take to water is widespread in Tamandua anteaters, it helps to explain the broad distribution of these species and suggests an ability to locate isolated patches of habitat in areas that have been modified by canals, dams, or rivers.
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