With 17 endemic species, Cuba is home to the world’s greatest diversity of snakes in the genus *Tropidophis* (Squamata: Tropidophiidae) (e.g., Hedges 2002; Domínguez et al. 2006; Díaz and Cádiz 2020; Uetz et al. 2021). Most species have limited distributions, whereas some others are widely distributed and occupy a variety of habitat types (e.g., Rodríguez Schettino et al. 2013). Such differences in geographic ranges might be related to the ecological plasticity of each species, but also to interspecific interactions and the snakes’ ability to make differential use of available resources to diminish competition and coexist in the same habitats (Rodríguez-Cabrera et al. 2020a). As a general rule, *Tropidophis* assemblages in Cuba seem to comprise three to four species, which appears to reflect morphological and behavioral adaptations that allow the different species within each assemblage to segregate at least within a structural sub-niche (Rodríguez-Cabrera et al. 2020a). Consequently, three basic ecotypes (terrestrial, semi-arboreal, and generalist) exist in most habitats, although a fourth gracile and climbing variant of the semi-arboreal ecotype, always represented by the Broad-banded Trope (*T. feicki*), occurs in mesic forested areas with limestone cliffs in western and central Cuba (Rodríguez-Cabrera et al. 2020a, 2020b; see also Hedges and Garrido 1992 and Díaz and Cádiz 2020 for previous references to arboreality in the genus). Syromyatnikova et al. (2021) found the first fossil evidence for the occurrence of multispecies *Tropidophis* assemblages at least since the Pleistocene (2.59–0.01 MYA) from cave deposits in western Cuba, where vertebræ of both the Giant Trope (*T. melanurus*), the almost omnipresent trope species in Cuban ecosystems, and of a second smaller unidentified species were present. The fact that regions where representatives of only some of the ecotypes have been reported does not necessarily mean that those niches are not available; instead, their representatives could...
be extirpated or extinct, have not yet dispersed to those areas, or have yet to be discovered.

The Guanahacabibes Peninsula, at the westernmost tip of Cuba, is one of the most important regions of the country in terms of biodiversity conservation (CNAP 2013). The herpetofauna of this peninsula has been studied for decades (e.g., Garrido and Schwartz 1968; Garrido 1980; Estrada and Novo Rodríguez 1985; Novo Rodríguez et al. 1987; Domínguez et al. 2006; Rodríguez Schettino et al. 2009). However, species of *Tropidophis* belonging to only two ecotypes, the terrestrial Guanahacabibes Trope (*T. xanthogaster*) and Spotted Brown Trope (*T. pardalis*) and the generalist Giant Trope, have been reported from this area (e.g., Garrido and Schwartz 1968; Domínguez et al. 2006; Rodríguez Schettino et al. 2009; Rivalta-G. et al. 2013; Rodríguez-S. et al. 2015). Herein we report for the first time the Spotted Red Trope (*T. maculatus*) from the Guanahacabibes Peninsula, which represents not only the westernmost occurrence of the species but also the first representative of the semi-arboreal ecotype in this region.

On 29 June 2011, one of us (RABM) observed and photographed an adult *T. maculatus* (ca. 350 mm SVL) (Fig. 1) at the “María la Gorda” Resort, Cabo Corrientes, Guanahacabibes Peninsula, Sandino Municipality, Pinar del Río Province (21.8210, -84.4938; WGS 84; elev. ~1.5 m asl). This locality is 60 km SW of Guane, site of the nearest reliable published record of the species (Barbour and Ramsden 1919). A photographic voucher has been deposited in the Herpetology Digital Archives of the University of Kansas (KUDA 013333). The identity of the species was confirmed by Javier Torres. The snake was first observed at about 2000 h foraging approximately 1.3 m above the ground and 150 m from the shoreline on a wooden handrail in front of some rustic bungalows in the resort (Fig. 2). The principal vegetation in the area is semi-deciduous forest, whereas that in much of the resort is secondary grassland with isolated bushes, trees (coconut palms and seagrape), and ornamental plants; vegetation near the shoreline comprises mostly small groves of seagrape and sandy-beach vegetation complex. The snake had the intense dark reddish ground coloration with smaller faded markings observed in some populations of *T. maculatus*, particularly those in the Guaniguanico Mountain Range, in contrast with snakes from populations farther east, which have a paler ground color with larger and more contrasting markings (Fig. 3).

Rodríguez Schettino et al. (2013) reported *T. maculatus* from the “San Ubaldo-Sabanalamar” Flora Reserve, located about 54 km NE of the “María la Gorda” Resort. However, this record is based solely on the species list of an unpublished action plan for the area, which contains several other records that most certainly constitute misidentifications (Canasi Trope, *T. celiae*; Broad-banded Trope, *T. feicki*, no limestone outcrops exist in this area; Yellow-banded Trope, *T. semicinctus*; Mangrove Salt Marsh Snake, *Nerodia clarkii*; Cuban Blue Anole, *Anolis allisoni*; Cuban Giant Anole, *A. equestris*; Slender Cliff Anole, *A. lucius*; North Coast Banded Geckolet, *Sphaerodactylus intermedius*; Canasi Frog, *Eleutherodactylus blairhedgesi*; and Eastern Giant Toad, *Peltophryne peltocephala*). Although the existence of *T. maculatus* in “San Ubaldo-Sabanalamar” Flora Reserve falls within the realm of possibility, additional sampling is required to corroborate its occurrence in the area and provide verification that this is the nearest record to the Guanahacabibes Peninsula, even if only by a few kilometers.
With this new record, the *Tropidophis* species assemblage on the Guanahacabibes Peninsula is complete. However, a fourth species, *T. feicki*, might also occur on the peninsula. *Tropidophis feicki* occurs in much of western and central Cuba (Rodríguez-Cabrera et al. 2020b) and is known to coexist parapatrically with *T. maculatus* (Rodríguez-Cabrera et al. 2020a). Moreover, the record closest to the Guanahacabibes Peninsula is in the Sierra de Guane, a site close to the pre-
viously documented westernmost record of *T. maculatus* (Rodríguez-Cabrera et al. 2020b).

Our observation of the individual from the “María La Gorda” Resort corroborates statements in Díaz and Cádiz (2020) and Rodríguez-Cabrera et al. (2020a, 2020c) that this species readily climbs. In this case, the snake was on a wooden handrail, similar to conspecifics observed on vegetation in more natural areas (Rodríguez-Cabrera et al. 2020a, 2020c). These actively foraging snakes feed primarily on sleeping anoles that are captured at night (Collette 1961; Rodríguez-Cabrera et al. 2020a, 2020c; Rodríguez-Cabrera and Hernández Gómez 2021). The apparent paucity of *T. maculatus* on the Guanahacabibes Peninsula could be attributable to a relatively recent dispersal of the species into the region.

Two closely related species of the terrestrial ecotype (*T. pardalis* and *T. xanthogaster*) have been reported from the Guanahacabibes Peninsula (Domínguez et al. 2006; Rodríguez Schettino et al. 2009; Rivalta-G. et al. 2013). However, due to the strong resemblance of these two species, we cannot rule out the possibility that the records of *T. pardalis* actually apply to misidentified *T. xanthogaster*. Individuals of the latter often vary in color and pattern (Fig. 4) and some individuals are very similar to *T. pardalis*. *Tropidophis pardalis* has a relatively extensive distribution and populations across the range are highly variable (Schwartz and Marsh 1960; Schwartz and Garrido 1975). Another possibility is that *T. xanthogaster* and *T. pardalis* are conspecific, and the population on the peninsula includes variants similar to both “species.” In any case, the taxonomic status of snakes in the *pardalis* group from the Guanahacabibes Peninsula deserves further attention, which is beyond the scope of this paper. Two species of the terrestrial ecotype (*T. celiae* and *T. pardalis*) do coexist at Canasí, Mayabeque Province (Rodríguez-Cabrera et al. 2020a), but they are not as closely related as *T. pardalis* and *T. xanthogaster* (see Díaz and Cádiz 2020 for a molecular phylogeny of the genus in Cuba).

**Acknowledgements**

We thank Javier Torres and Yaira López for useful comments that improved an early draft of this manuscript and Raimundo López-Silvero for permission to use his photographs. Javier Torres also confirmed the identity of the species and, with Melissa R. Mayhew, assisted in depositing a photographic voucher in the digital archives at the University of Kansas.

**Literature Cited**

Barbour, T. and C.T. Ramsden. 1919. The herpetology of Cuba. *Memories of the Museum of Comparative Zoology* 47: 71–213. https://doi.org/10.5962/bhl.title.49191.

CNAP (Centro Nacional de Áreas Protegidas). 2013. *Plan del Sistema Nacional de Áreas Protegidas* 2014–2020. Ministerio de Ciencias, Tecnología y Medio Ambiente, La Habana, Cuba.

Collette, B.B. 1961. Correlations between ecology and morphology in anoline lizards from Havana, Cuba, and southern Florida. *Bulletin of the Museum of Comparative Zoology* 125: 137–162. https://doi.org/10.5962/bhl.part.26162.

Díaz, L.M. and A. Cádiz. 2020. A new species of *Tropidophis* (Squamata: *Tropidophiidae*) and molecular phylogeny of the Cuban radiation of the genus. *Novitates Caribaea* 16: 1–9. https://doi.org/10.3380/nc.vi16.i22.

Domínguez, M., L.V. Moreno, and S.B. Hedges. 2006. A new snake of the genus *Tropidophis* (*Tropidophiidae*) from the Guanahacabibes Peninsula of western Cuba. *Amphibia-Reptilia* 27: 427–432. https://doi.org/10.1163/15683580678190088.

Estrada, A.R. and J. Novo Rodríguez. 1985. Nueva especie de *Ephemerobdactylus* del grupo *ricordi* (Anura: Leptodactyliidae) del occidente de Cuba. *Poyuana* 303: 1–10.

Garrido, O.H. 1980. Adiciones a la fauna de vertebrados de la Península de Guanahacabibes. *Miscelánea Zoológica* 10: 2–4.

Garrido, O.H. and A. Schwartz. 1968. Anfibios, reptiles y aves de la península de Guanahacabibes, Cuba. *Poyuana, Serie A* 53: 1–68.

Hedges, S.B. 2002. Morphological variation and the definition of species in the snake genus *Tropidophis* (Serpentes: *Tropidophiidae*). *Bulletin of the Natural History Museum, London: Zoology Series* 68: 83–90. https://doi.org/10.1017/ S0968040070000092.

Hedges, S.B. and O.H. Garrido. 1992. A new species of *Tropidophis* from Cuba (Serpentes: *Tropidophiidae*). *Capeta* 1992: 820–825. https://doi.org/10.2307/1446158.

Novo Rodríguez, J., A.R. Estrada, and L.V. Moreno. 1987. Adiciones a la fauna de anfibios de la Península de Guanahacabibes, Cuba. *Miscelánea Zoológica* 36: 3–4.

Rivalta-González, V., A. González-C., and L. Rodríguez-Schettino. 2013. Colección herpetológica del Instituto de Ecología y Sistemática, La Habana, Cuba. *Familia Tropidophiidae, género Tropidophis. Revista Colombiana de Ciencia Animal* 5: 282–300. https://doi.org/10.24188/recia.v5.n2.2013.293.

Rodríguez-Cabrera, T.M., and A. Hernández Gómez. 2021. New prey records for two snakes of the genus *Tropidophis* (*Tropidophiidae*) from urban habitats in La Habana, Cuba. *Reptiles & Amphibians* 28: 512–515. https://doi.org/10.17161/rand.v28i3.15858.

Rodríguez-Cabrera, T.M., A. Fong G., and J. Torres. 2020a. New dietary records for three Cuban snakes in the genus *Tropidophis* (*Tropidophiidae*), with comments on possible niche partitioning by Cuban tropes. *Reptiles & Amphibians* 27: 201–208. https://doi.org/10.17161/randa.v27i2.14177.

Rodríguez-Cabrera, T.M., J. Torres, and E. Morell Savall. 2020b. Easternmost record of the Cuban Broad-banded Trope, *Tropidophis feicki* (Squamata: *Tropidophiidae*). *Caribbean Herpetology* 71: 1–3. https://doi.org/10.51611/ch.71.

Rodríguez-Cabrera, T.M., L.Y. García Padrón, and J. Torres. 2020c. New dietary records for the Cuban Spotted Red Trope, *Tropidophis maculatus* (Squamata: *Tropidophiidae*). *Caribbean Herpetology* 73: 1–2. https://doi.org/10.51611/ch.73.

Rodríguez-Schettino, L., V. Rivalta-[-González], E. Pérez Rodríguez, and A. Hernández Marrero. 2009. Herpetofauna de la Reserva de la Biodiversa “Guanahacabibes”, provincia de Pinar del Río, Cuba. *Poyuana* 497: 28–43.

Rodríguez-Schettino, L., C.A. Mancina, and V. Rivalta-[-González]. 2013. Reptiles of Cuba: Checklist and geographic distribution. *Smithsonian Herpetological Information Service* 144: 1–96. https://doi.org/10.5479/si.25317515.144.1.

Rodríguez-Schettino, L., V. Rivalta-González, A. González-R., and R. Fernández de Arcilla-F. 2015. Presencia del género *Tropidophis* (Serpentes: *Tropidophiidae*) en el Sistema Nacional de Áreas Protegidas de Cuba. *Revista Colombiana de Ciencia Animal* 7: 19–24. http://dx.doi.org/10.24188/recia.v7.n1.2015.294.

Schwartz, A. and R.J. Marsh. 1960. A review of the *pardalis-maculatus* complex of the boid genus *Tropidophis* of the West Indies. *Bulletin of the Museum of Comparative Zoology* 123: 48–89.

Schwartz, A. and O.H. Garrido. 1975. A reconsideration of some Cuban *Tropidophis* (Serpentes, Boidae). *Proceedings of the Biological Society of Washington* 9: 77–90.

Syromyatnikova, E., E. Aranda, and S. Fiol González. 2021. First insight into the diversity of snakes in the Pleistocene of Cuba. *Acta Palaeontologica Polonica* 66: 395–407. https://doi.org/10.4202/app.00766.2020.

Uetz, P., P. Freed, R. Aguilar, and J. Hołek (eds.). 2021. *The Reptile Database*. <http://www.reptile-database.org/>.