ON THE GONATODES OF THE GALAPAGOS ISLANDS  
(SAURIA, GEKKONIDAE)  

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Garman (1892) described Gonatodes collaris from the island San Cristobal (Chatham), in the Galapagos. There were apparently two specimens, collected by G. Baur in Wreck Bay, on the western side of the island.

The Hopkins-Stanford Galapagos Expedition (1898-99) failed to obtain the species, although San Cristobal was visited (Heller, 1903).

In the years 1905-1906 the California Academy of Sciences sent an exceptionally well-manned expedition to the Galapagos; the herpetologist was the late J. Slevin, assisted by E.S. King. The party had about two and one half days’ collecting at Wreck Bay (Slevin, 1931: 44-46) and also failed to collect Gonatodes, although, as stated by Van Denburgh (1912: 411), who studied the collections, they “searched carefully for it, and collected a hundred and sixty nine geckos on Chatham Island”. This led Van Denburgh, on the same page, to wonder “whether Dr. Baur’s specimens might not have originated at Guayaquil, where he also collected, and have been in some way mislabeled”. In fact, Baur, en route for the Galapagos, had collected near Guayaquil, and the small collection made was sent to Garman, who reported on it in a paper immediately following the Galapagos study (Garman, 1892 a). Considering Slevin’s skill as a collector, Van Denburgh’s idea was not unreasonable.

Barbour & Loveridge (1929: 269), in their first list of MCZ types, made the following comments: i) there was then just one specimen extant; ii) this was a poorly preserved one; iii) “perhaps from Guayaquil”.

Slevin (1935: 21, footnote), on a semi-popular account of Galapagos reptiles, repeated Van Denburgh’s hypothesis of mislabeling.

In 1939, however, Wood reported on an authentic female, collected at Wreck Bay by H.A. Pilsbry and compared with the
type by Shreve. From this comparison one learned that the surviving Garman specimen was a male.

Very recently Mertens (1963) received a preserved male from the type-locality, and the sender reported on three terrarium-kept additional specimens. Unaware of Wood's report, Mertens titled his paper "Die Wiederentdeckung der Geckonengattung Gonatodes auf den Galapagos".

Mertens very rightly pointed out that the presence of a probably rare animal exclusively in the easternmost of the islands tends to suggest passive dispersal. He believed, however, the form to be probably endemic ("Es scheint aber, dass es sich um eine endemische Species handelt...", loc. cit.: 23).

I have had the opportunity of examining the type of collaris, in the course of studies on Guiano-Brasilian geckos, made in 1957, during tenure of a Guggenheim fellowship at the Museum of Comparative Zoology.

The specimen is by no means in such a bad shape as stated by Barbour and Loveridge, so much so that I checked it carefully against the original description, to verify the possibility that, in spite of Mr. Loveridge's careful curatorship, there could have been an involuntary substitution. I could find nothing to support the suspicion, and now Mertens' specimen confirms the authenticity of the type.

At that time, in trying to determine the position of collaris in the general picture of Gonatodes, I compared the type with all described forms and especially with excellent series of the Western Ecuadorian species G. caudiscutatus Günther in the American Museum of Natural History and in the Museum of Comparative Zoology. I could find no differences.

In fact, being unaware, at the time, of Wood's record, and considering the high degree of endemicity of the Galapagos fauna, I tended to believe the hypothesis of a mistake in labeling dating from Baur's day.

Wood's specimen, being a female, added much to the evidence, but not decisively, as females of related Gonatodes are at times hard to identify (e.g., Vanzolini & Williams, 1962). I believe, however, that Mertens' example, well figured and described, clinches the argument.

Highly characteristic of the species are: the variegated pattern of the head; the forward position of the pre-scapular light band; the light spots on the flanks; and the sudden break between throat and belly color at the level of the arms.

The genus Gonatodes is a difficult one, as color patterns, which seem to be extremely important biologically, are, especially in the males, rather poorly preserved. However, in the present case it seems fairly safe to assume that Gonatodes collaris is either a strict synonym or a subspecies of G. caudiscutatus.
Referências


