

WEST AFRICAN EARTHWORM
GENUS *MILLSONIA* BEDDARD, 1894
(OLIGOCHAETA: ACANTHODRILIDAE, BENHAMIINAE)
REVIEWED AND SEPARATION OF A NEW GENUS

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A detailed morphological revision of the species belonging to the genus *Millsonia* BEDDARD, 1894 is presented, and a new species *Millsonia bosana* sp. n. is described. To accommodate the species possessing enteronephric excretory system a new genus *Reginaldia* gen. nov. is erected. The new genus is divided into two subgenera according to the number of oesophageal gizzards: *Reginaldia* (*Reginaldia*) subgen. nov. for the species possessing two gizzards in v and vi, and *Reginaldia* (*Periogaster*) subgen. nov. for the species provided with only one gizzard in vi.

Key words: earthworms, Oligochaeta, Acanthodrilidae, Benhamiinae, *Millsonia*, new species and genus, *Reginaldia* (*Reginaldia*), *Reginaldia* (*Periogaster*), Africa

INTRODUCTION

The earthworm genus *Millsonia* was erected by BEDDARD (1894) for two peculiar earthworm species *Millsonia nigra* BEDDARD, 1894 and *Millsonia rubens* BEDDARD, 1894, which possessed two gizzards, three pairs of calciferous glands and paired intestinal caeca. Later MICHAELSEN (1900) merged all the meronephric genera possessing two gizzards and three pairs of calciferous glands in the region of segments 15–17 to *Dichogaster* BEDDARD, 1888 creating thus a highly heterogeneous genus containing some 70 species. During the next several decades the number of the described species more than doubled and the genus *Dichogaster* became an untenable catch-all taxon. It was OMODEO (1955, 1958) who first tried to separate homogenous groups from *Dichogaster* resurrecting the genus *Benhamia* MICHAELSEN, 1889 and *Millsonia* BEDDARD, 1894.

The genus *Millsonia* according to OMODEO (1955, 1958) differed from *Dichogaster* by presence of paired intestinal caeca and lacking of penial setae. Further common characteristics of these species were the large body size (150–450 mm) and spermathecal diverticula embedded into the wall of the duct.

Later, a number of new species, including small and penial setae bearing ones, were described (SIMS 1965a, OMODEO 1973), which clearly increased the

Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta

Reginald William Sims



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