

STUDIES IN AUSTRALIAN CARCINOLOGY.

No. 2*

By

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(Plates ix-x and Figures 1-4.)

A REVISION OF THE FAMILY MICTYRIDAE.

In the present paper an effort has been made to revise the family Mictyridae, and to assemble under one heading the literature concerning the species of the monotypic genus *Mictyris*. Large series of specimens in the Australian Museum collection afford an opportunity to elaborate upon the subject, and to submit previously unconsidered data concerning the genotype *Mictyris longicarpus* Latreille. Stress has been laid on the unique distribution of this species, and Stimpson's *M. brevidactylus* has been regarded as a distinct variety of it. A new species has also been added, which occurs within the eastern Australian range of *M. longicarpus*, living in association with it on the same tidal flats.

The compilation of the paper has been materially aided by the kindness of Dr. Mary J. Rathbun of the United States National Museum, Dr. W. T. Calman of the British Museum (Natural History), and the authorities of the South Australian Museum; the two former for their ready assistance and advice and the latter for allowing me to examine their collection of *Mictyris* spp. Thanks is also extended to Mr. T. Iredale of the Australian Museum for valuable data concerning the activities of early scientific expeditions to Australia, and for some references to literature otherwise unavailable to me.

Apart from a few references to old works of the dictionary or encyclopedia type which have come under my notice, and contain only repetitions of the more important publications, there appears to be only three works which are not available to me for consultation. These are:—Aurivillius, Zur. Biol. Amphib. Dekap., p. 38, pl. iii, figs. 10-11 (Mitg. K. Ges. Wiss. Upsala, 1893); Nauck, Zeits. Wiss. Zool., xxxiv, 1880, p. 22, pl. i, figs. 5-7 (gastric teeth); and the 3rd edit. of Cuvier, which is referred to elsewhere in the text. A further reference to "*Mélanges Carcinologiques*, p. 118" (*vide* Stimpson, 1858 and A.M.E., 1873) is thought to refer to an unpublished MS.

*For No. 1, see Rec. Austr. Mus., xiii, 3, 1920, p. 105.