being very short in the females, and extending beyond the rim of the shield in the males of all the species I know. In the Catalogue of the British Museum, J. E Gray restricts, in 1844, the name of Trionyx to the North American species; separates Trionyx indicus, Gray, as a distinct genus under the name of Chitra; changes Fitzinger's Amyda to Dogania, excluding however from it Tr. muticus, which the Austrian herpetologist associated in that genus with Tr. subplanus; and calls Tyrse a genus embracing Tr. gangeticus, Cuv., javanicus, Geoffr., aegyptiacus, Geoffr., and a few other less known species; and, finally, retains the name Emyda for Wagler's Trionyx. To these, Dr. W. Peters has added a new genus from Mozambique, in which the absence of bony plates in the marginal rim is combined with a broad hind lobe of the plastron, and which he calls Cycloderma. Thus we have not less than thirteen generic names for about the same number of species, some of which are still very imperfectly known.

Under these circumstances a critical revision of the genera of Trionychidae appears as a great desideratum in herpetology. But the materials for such a task seem to exist nowhere, if I judge from the published catalogues of the great museums in Europe; and I possess myself large numbers of specimens only of the North American species. Yet, from their careful examination I have gathered data which may be of service to a future monographer of this type. Thus I have already satisfied myself that the number of our species is much greater than is generally supposed;2 and a careful study of their skeleton has taught me what constitutes generic characters in this family, so that I feel prepared to express an opinion respecting the value of the genera proposed by other writers.8 I hold that the genus Trionyx, as limited by Wagler, is natural; it embraces the species described by Gray under the name of Emyda, and by Duméril and Bibron under that of Next to it stands Cycloperma, Peters, also a natural genus. Cryptopus. Indian genus Chitra, Gray, is no doubt well founded, and so also, probably, is Dogania, Gray, for which the name Amyda, Fitz., might have been adopted by Gray, as this is older. But here ends the list of genera thus far proposed which are at all circumscribed within natural limits, as I can show that Aspidonectes, Wagl., Gymnopus, Dum. and Bibr., Platypeltis, Fitz., Pelodiscus, Fitz., Potamochelys, Filz., Trionyx, Gray, and Tyrse, Gray, either contain species which do not belong

Union, which he considered as distinct from the southern species, was correct.

¹ Monatl. Bericht der Akad. d. Wiss. in Berlin, 1855, p. 216.

² Dr. Holbrook reduces the North American Trionyx to two species, and so do Duméril and Bibron, and J. E. Gray. It will be seen hereafter, that the supposition of LeSueur respecting the species occurring in the North-western States of the American

In this connection I would remark, that it is hardly possible to distinguish the Trionychidae by their external characters, and that nothing short of a careful examination of the jaws, and especially of the skull, will reveal their generic differences.