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A SUPPLEMENTARY NOTE ON THE CARCINOLOGICAL WORK OF C. S. RAFINESQUE

by

L. B. HOLTHUIS

Shortly after the printing of my 1954 paper on C. S. Rafinesque as a carcinologist (Holthuis, 1954, Zool. Verhand. Leiden, no. 25, pp. 1-43) had been completed, I became aware of the fact that, when preparing the above publication, I unfortunately had overlooked the existence of one more publication by Rafinesque which contains information on Crustacea. The present note deals with this 8th carcinological publication by Rafinesque, the reference to which is the following:

1818 (August). Journal of the Academy of Natural Sciences of Philadelphia. Vol. i. Part I. Philadelphia. 8 vo. pp. 220, and 9 plates. May to December, 1817. Amer. monthly Mag. crit. Rev., vol. 3, pp. 269-274. A (very) critical review of the publication mentioned in the title of Rafinesque's paper. Two new generic names (for Brachyura) are proposed, other Crustacean genera and species are discussed or mentioned (Notostraca, Amphipoda, Decapoda).

The following Crustacean genera and species have been mentioned in this review by Rafinesque:

Subclass Branchiopoda

Order Notostraca

Generic names. *Apus* Latreille (= *Apus* Cuvier, 1797), *Phyllopus* Rafinesque, 1815 (Rafinesque, 1818, p. 271).

Subclass Malacostraca

Order Amphipoda

Generic names. *Cerapus* Say, 1817 (Rafinesque, 1818, pp. 271, 272), *Jassa* Leach, 1814 (Rafinesque, 1818, p. 272). The following remarks concerning *Cerapus* are made by Rafinesque: "*Cerapus* of Say, is a good name,

if the bad name of *Apus*, Latreille, (*Phyllopus* Rafinesque,) is not admitted; otherwise both become worse than bad" (pp. 271, 272), and "A N.G. of Crustaceous *Cerapus tubularis*, by Mr. Say; with a figure, very near to the genus *Jassa* of Leach" (p. 272).

Species name. *Cerapus tubularis* Say, 1817 (Rafinesque, 1818, p. 272).

Order Decapoda
Suborder Macrura
Supersection Natantia

Generic name. *Cryptophthalmus* Rafinesque, 1814 (Rafinesque, 1818, p. 271), cited as a generic name invalidating the name *Crypta* Nuttall, 1818, for a genus of plants.

Supersection Macrura Reptantia

Generic name. *Astacus* Fabricius, 1775 (Rafinesque, 1818, p. 272).

Species names. *Astacus affinis* Say, 1817, and *Astacus limosus* Rafinesque, 1817 (Rafinesque, 1818, p. 272). About these species Rafinesque made the following remark: "His [= Say's, 1817] *Astacus affinis* [should be compared] with *A. limosus* Raf. ditto [= 1817] as they may happen to be identical or very nearly related to each other". As shown in my previous paper (Holthuis, 1954, p. 29) Rafinesque's supposition that Say's and his species might be identical proves to be correct.

Suborder Anomura

Generic names. *Emerita* Gronovius, 1764, *Hippa* Fabricius, 1787, *Nectylus* Rafinesque, 1817, *Pagurus* Fabricius, 1775 (Rafinesque, 1818, p. 272). Concerning the first and second of these names Rafinesque remarked: "*Hippa* of Fabricius, means a horse! and is partial root of 20 different genera, such as *Hippophae*, *Hippomane*, *Hippuris*, &c. Why not admit and adopt the anterior and better name *Emerita* of Gronovius?"

Species names. *Hippa talpoida* Say, 1817, *Nectylus rugosus* Rafinesque, 1817, *Pagurus longicarpus* Say, 1817, *Pagurus truncatulus* Rafinesque, 1817 (Rafinesque, 1818, p. 272). About these names Rafinesque remarked: "his [= Say's, 1817] *Pagurus longicarpus* [should be compared] with *P. truncatulus* Raf. ditto [= 1817]; and his *Hippa talpoida* to *Nectylus rugosus* Raf. ditto; as they may happen to be identical or very near related to each other". As pointed out previously (Holthuis, 1954, pp. 32, 33) *Nectylus rugosus* Raf. and *Pagurus truncatulus* Raf. indeed must be regarded as synonymous with *Hippa talpoida* Say and *Pagurus longicarpus* Say respectively.

Suborder Brachyura

New generic names. *Lissula* Rafinesque (1818, p. 272), a substitute name for *Lissa* Leach, 1815; *Lupania* Rafinesque (1818, p. 272) a substitute name for *Lupa* Leach, 1814. About the first of these two new names Rafinesque stated: "*Lissa* of Leach, is too short, and is contained in *Melissa*, &c. it must be modified into *Lissula*". The erection of the second new name is justified by Rafinesque as follows: "*Lupa* of Leach, is too short, and the root of *Lupinus*; it must be changed into *Lupania*." Rafinesque's reasons for changing the two generic names given by Leach, according to the present International Rules of Zoological Nomenclature, cannot be accepted.

Other generic names. *Cancer* Linnaeus, 1758, *Libinia* Leach, 1815, *Lissa* Leach, 1815, *Lupa* Leach, 1814 (Rafinesque, 1818, p. 272), *Monolepis* Say, 1817 (Rafinesque, 1818, pp. 271, 272), *Ocypode* (error for *Ocypode*), *Ocypode* Weber, 1795, *Pinnotheres* Latreille, 1802, *Plagusia* Latreille, 1804, *Portunus* Fabricius, 1798 (Rafinesque, 1818, p. 272), *Sesarma* Say, 1817 (Rafinesque, 1818, pp. 271, 272). Of Say's studies on the Crustacea Rafinesque (1818, p. 272) remarked: "Mr. Say had adopted the improvements of Latreille and Leach, on the genus *Cancer* of Linnaeus, which is now become, by the discoveries of many writers, a class, containing more than 100 genera and 1000 species! His descriptions are very minute, yet sometimes confused and defective in a few points".

Species names. *Ocypode pusilla* Rafinesque, 1817, *Ocypode reticulatus* Say, 1817 (Rafinesque, 1818, p. 272). Rafinesque's remark on these two species is as follows: "We advise to compare his [= Say's, 1817] *Ocypode reticulatus* with the *O. pusilla* of Rafinesque's account of some N.G. and Sp. of North American Crustacea, in American Monthly Magazine, vol. 2. p. 40 as they may happen to be identical or very near related to each other". As pointed out before (Holthuis, 1954, p. 36), it is more probable that not *Ocypode pusilla* Raf., 1817, but *Grapsus limosus* Raf., 1817, is identical with *Sesarma reticulatus* (Say).