

1843. RATHKE, M. H.

Beiträge zur Fauna Norwegens. Mit 12 Kupfertafeln. Besonderer Abdruck aus den Verhandlungen der kaiserl. Leopoldinisch-Carolinischen Akademie der Naturforscher. Band XX. Abth. I. Breslau. 1843. (Amphipoda. pp. 63-98. Pl. III. IV.)

On pages 60-63, Rathke describes *Liriope pygmaea* as type of a new Amphipod genus. The name *Liriope* had been already used for a genus of Medusæ by Lesson, and Dana recognised that the creatures described by Rathke were not Amphipods. A full account is given in the British Sessile-Eyed Crustaceans, vol. ii. pp. 257, etc., of what is known of these strange animals, and of the nomenclature, under the genus *Cryptothiria*, among the Bopyridæ.

Of the genuine Amphipods, Rathke's *Gammarus anomalus* n. sp. (Tab. IV. Fig. 7.) is by Spence Bate and Boeck named *Microdeutopus anomalus*. *Gammarus sunderallii* n. sp. (Tab. III. Fig. 2.) was redescribed by Bate and Westwood as "*Liljeborgia Shetlandica*," by myself as "*Liljeborgia Normanni*," and by Hoek as *Cheirocratus brevicornis*, its name finally being *Cheirocratus sunderallii*. *Gammarus parvulus* n. sp. (Tab. IV. Fig. 2.) and *Gammarus krøyeri* n. sp. (Tab. IV. Fig. 1.) are alike identified with *Gammarus marinus*, Leach, both by Sp. Bate and Boeck. Of *Gammarus sabini*, Leach, Rathke gives a new description in order to distinguish it from his own nearly-related species, *Amathia carinata*, from the Crimea, and *Gammarus angulosus*, n. sp. (Tab. III. Fig. 3.) from Norway. Nevertheless, it is not an absolutely untenable opinion that these three species are in reality identical. That his *Gammarus angulosus* is not the young of *Gammarus sabini*, Rathke thinks is proved by two circumstances, first, that he had seen several specimens of it with eggs, and secondly, that the young of *Gammarus sabini* of the same size (4 to 4½ lines) have already the same shape as the old. But the female may be very much smaller than the male, as in *Melita palmata* and other species, and Rathke's observation as to the young of *Gammarus sabini* does not agree with the experience of some other observers. Bate and Westwood unite *Gammarus angulosus* with *Amathilla sabini*, and would do the same to *Amathia carinata*, but for the (insufficient) reason that Rathke himself says that it is different.

Rathke's *Gammarus zebra* n. sp. (Tab. III. Fig. 4.) is identified by Spence Bate with the female of *Podocerus cylindricus*, Say, which Boeck accepts as a synonym only with a ?, placing the species under *Podocerus (Ischyrocerus) anguipes* of Krøyer. *Amphithoë tenuicornis*, n. sp. (Tab. IV. Fig. 3.), is named *Dexamine tenuicornis* by Spence Bate, who notices the improbability of Rathke's statement that the species has no telson, and observes that "certainly Rathke's *tenuicornis* is very closely allied to, if not identical with Montagu's *spinus*." Of the latter species Boeck makes it a synonym. *Amphithoë podoceroïdes*, n. sp. (Tab. IV. Fig. 4.) which Sp. Bate transferred to his genus *Sunamphithoë*, is retransferred by Boeck to *Amphithoë* and made to supersede *Amphithoë littorina*, Sp. Bate. In my opinion *Cawer Gammarus rubricatus*, Montagu, is the same as *Amphithoë littorina*, in which case the name will stand as *Amphithoë rubricata*. *Amphithoë prevostii*, M. Edwards? (Tab. IV. Fig. 5), is said to have no telson. At p. 264c it is established as a distinct species, with the name, "*Amphithoë Nilssonii*"; it has already been discussed in the note on Rathke's earlier work, 1837. *Amphithoë norvegica*, n. sp. (Tab. IV. Fig. 6.), is now placed in the genus *Calliopius* (see Sp. Bate and A. Boeck). Of the new genus *Iphimedia*, the following definition is given:— "Antennæ superiores inferioribus breviores: illarum pedunculus e tribus, harum e quatuor articulis compositus: omnium flagellum tenue, multiarticulatum. Pedes secundi paris manibus simplicibus, primi paris, illis minores, chelis instructi, quarum pollex ex uno tantum articulo constat: reliqui pedes iis Gammarorum similes. Pedes spurii in duos ramos plus minusve complanatos divisi." Spence Bate objects to this definition that the hands of the