

1848. MÜLLER, FRIEDRICH.

Orchestia Euchore und Gryphus, neue Arten aus der Ostsee, beschrieben von Dr. Friedrich Müller. (Hierzu Taf. IV.) Archiv für Naturgeschichte. Vierzehnter Jahrgang. Erster Band. Berlin, 1848.

Müller notices that the genera *Talitrus* and *Orchestia* belong to the warmer seas, and seem to be wanting in the arctic waters, the proper home of the typical Gammarina. From this point of view he thinks the discovery of two new species from the Baltic not without interest. He does not consider the presence of the large second hands in *Orchestia* sufficient for a generic distinction from *Talitrus*, while in the two new species, as in *Orchestia platensis*, Krøyer, the males belong to *Orchestia*, the females to *Talitrus*. *Orchestia euchore* is fully described and figured, but it is, as Boeck says, not to be distinguished from *Orchestia gammarellus*. Müller says that the mandibles are without any trace of a palp, as if he had given special attention to that point. He recognizes the great likeness between *Orchestia gryphus* and *Orchestia deshayesi*, Audouin. In conclusion he says, "*Orchestia platensis*, *Euchore* et *Gryphus* inter se conveniunt :

"*Antennis sup.* capitis longitudinem haud aut vix superantibus; *mandibulis* palpi ne vestigio quidem gaudentibus: *maxillarum paris I'* lamina interna angusta setis pinnatis curvatis duabus instructa; palpi *pedum maxillarum* articulo ultimo brevi lato rotundato; *pedibus II' paris* in ♂ manu valida instructis, in ♀ debilibus, ungue exiguo articuli V' foliaceo-dilatati, cujus margini anteriori inseritur, apicem haud superante præditis; *branchiis I' paris* angustis elongatis flexuosis; *pedibus saltatoriis paris ultimi* exiguis conicis, stylo terminali unico donatis; *lamina caudali* unica crassiuscula, spinis ornata.

"Differunt :

"*Orchestia platensis*, Kr. *Antennis superioribus* caput longitudine æquantibus aut vix superantibus; *antennis inf.* vix tertiam corporis partem longitudine æquantibus, pedunculo flagellum 14 articulatum parum excedente; *oculis* ellipticis; *primi pedis* articulo quinto apicem versus in ♂ dilatato, haud dilatato in ♀, ungue valido inermi; manu *pedis secundi* in ♂ lata ovali; *pedis septimi* articulo quarto in ♂ incrassato, in ♀ gracili, *lamina caudali* truncata; longitudine linearum 6.

"*Orchestia Euchore* F. Müll. *Antennis superioribus* caput, *inferioribus* tertiam corporis partem, harum pedunculo flagellum 18 articulatum longitudine æquantibus; *oculis* rotundis; *primi pedis* articulo quinto apicem versus in ♂ dilatato, haud dilatato in ♀, ungue valido spinulis duabus in margine interiore armato; manu *pedis secundi* in ♂ ovali; *pedis septimi* articulo quarto in ♂ incrassato, in ♀ gracili; *lamina caudali* emarginata; long. 5'''.

"*Orchestia Gryphus* F. Müll. *Antennis sup.* capite brevioribus; *inferioribus* in ♂ dimidiam, in ♀ quintam (1) corporis partem longitudine æquantibus, flagello 20 articulato pedunculi dimidiam subæquante; *oculis* rotundis; *primi pedis* articulo quinto nec in ♂, nec in ♀ dilatato, ungue valido spinula unica in margine interiore armato; manu *pedis secundi* lata, incisura profunda in ramos duos divisa, anteriorem longiorem latiore unguigerum, posteriorem acuminatum; *pedis septimi* articulo quarto in utroque sexu gracili; *lamina caudali* emarginata; long. 4'''."

Another notice, headed "Bemerkungen zu Zaddach's Synopses Crustaceorum Borussicorum prodromus," states that *Leptocheirus pilosus*, Zaddach, has in fact a very rudimentary, one-jointed accessory flagellum on the upper antennæ, which had escaped the notice of the author of the genus *Leptocheirus*, when the absence of an accessory flagellum was made part of the generic character.