

1855. LILJEBORG, W.

Om Hafs Crustaceer vid Kullaberg i Skåne. Öfversigt af Kongl. Vetenskaps-Akademiens Förhandlingar. Tofte Årgången, 1855. Stockholm, 1856. pp. 117-138.

This is an appendix to the contribution of 1852. Attention is called to the neglect of the sexual characteristics in the Amphipoda, a better acquaintance with which would probably necessitate some changes in the established genera and species. As marks of the female, Liljeborg notes relatively larger epimera, more or less developed ovarial appendages by the side of the branchiæ, smaller antennæ and gnathopods, and often the presence of eggs in the pouch. Under the heading "*Crustacea marina ad Kullaberg in Scania mense Julii 1852 collecta*," he records, with full descriptions of the new species, *Ampelisca lævigata*, n. s.; *Ampelisca tenuicornis*, n. s.; "*Gammarus Sabini*," Leach; *Gammarus angulosus*, H. Rathke; *Gammarus poecilurus*, H. Rathke; *Gammarus erythrophthalmus*, n. s.; *Gammarus macronyx*, n. s.; *Leucothoe articulosa* (Montagu), with a long description, an account of its differences from *Leucothoe furina* (Savigny), and a concluding observation that Krøyer's *Leucothoe clypeata* and *glacialis* as well as *Leucothoe norvegica* Liljeborg can scarcely be included in this genus; *Ischyrocerus minutus*, Liljeborg, with a description, and a discussion of its relationship to *Ischyrocerus auguipes*, Krøyer, and *Ischyrocerus latipes*, Krøyer, which are both, he says, several times larger than *Ischyrocerus minutus*; *Eriethonius difformis*, M.-Edwards, with a long description, and a discussion of the relationship of *Eriethonius* to *Podocerus*, etc.; *Laphystius sturionis*, Krøyer, with a description; *Caprella lobata* (O. F. Müller); *Leptomera pedata* (Abildgaard).

*Gammarus erythrophthalmus* has been confused by Boeck, as we learn from G. O. Sars, with a different species. Liljeborg's account of his species is as follows:—"Corporis forma sat robusta; epimera parva. Longit. circ. 7 millim. Oculi magni, reniformes, rubri. Frons inermitis. Dorsum laeve. Annuli tres postici abdominis sine aculeis. Antennæ longitudine mediocres, hirsutæ; superiores inferioribus parum longiores, pedunculi articulo primo ceteris crassiore, quam secundo vero brevior. Articulus secundus tertio non multo longior. Flagellum pedunculo paullo brevius, articulis circ. quindecim. Flagellum appendiculare longum, articulis sex. Antennæ inferiores pone superiores fixæ. Pedunculus earum eidem antennarum superiorum circ. longitudine æqualis, articulo basali infra processu longo, articulo secundo non plane apicem articuli primi pedunculi antenn. superiorum attingente, articulo tertio et quarto inter se circ. æqualibus. Flagellum articulis duodecim. Pedum thor. primi et secundi paris manus valde inæquales, hæ illis multo majores. Illæ fere ovatæ, carpo magnitudine circ. æquales, præsertim postice setosæ. Margines postici palmae et carpi angulum acutum formantes; apud marem et feminam inter se similes. Hæ apud marem validæ, carpo multo majores, oblique triangulares, margine antico arcuato, postico infra oblique truncato, crenulato, setifero, processibusque tribus brevibus instructo. Apud feminam paullo minores sunt, ovatæ, et postice tantum processibus duobus præditæ. Pedes tertii et quarti paris sequentibus breviores, articulo tertio sat dilatato, ungue vero forma solita. Pedes sexti et septimi paris ceteris longiores, inter se circiter æquales, apicem pedum abdominalium ultimorum attingentes, articulo basali valde dilatato. Rami pedum abdominalium ultimorum conici vel stiliformes, supra et ad apicem aculeati, inter se et trunco longitudine circ. æquales, antecedentes paulum superantes. Appendix caudalis brevis et crassa, postice truncata, supra postice eminentiis duabus parvulis lateralibus aculeatis.—Color flavescenti-albidus fasciis dorsalibus lutescentibus. Rarus; in retibus piscatorum e 14-16 orgyarum profundo acceptus." From all known species within the genus (*Gammarus*) it differs, he says, by its red eyes. It is not an uncommon species, I may remark, on the south coast of Devonshire.