

V. Zoologische Ergebnisse der Nordseefahrt.. X. Crustaceen aus den Ordnungen Edriophthalmata und Podophthalmata. Bearbeitet von Prof. Dr. A. Metzger in Münden. Hiezu Abbildungen auf Kupfertafel VI. pp. 277-310.

A list of Amphipoda is given, pages 278 to 284, numbering eighty-three species, with particulars as to place of capture, depth, nature of ground and geographical distribution. Species previously taken by Leuckart or by Metzger himself, even if not observed on the present expedition, are included. On *Amphithoë gibba*, R. Leuckart, the note is given, "Von späteren Forschern nicht wieder aufgefunden, oder doch nicht erkannt. Die l. c. [Frey und Leuckart, Beiträge p. 162] gegebene Beschreibung ist zu unvollständig. Nach der Uebereinstimmung mit A. Rathkei zu urtheilen, gehört die Art wahrscheinlich der Gattung *Calliopius* an." See Note on Frey and Leuckart, 1847. Of *Gammarus elongatus*, Leuckart, he says, "Später, wie es scheint, noch nicht wieder aufgefunden." He notices Boeck's opinion that it may be *Maxa longimana*, Thompson. He here gives *Kröyera arenaria*, Bate, with Boeck's *Pontocrates norvegicus* as a synonym.

Fuller notes and descriptions of new species are given on pages 296-300. *Dulichia monacantha*, n. s., Tab. vi. fig. 8, is thus described:—

"Caput antice paulum productum et rotundatum. Epimerum primum in spinam longam productum, epimerum secundum margine posteriore rotundato, margine interiore recto et parum modo producto. Pedes secundi paris manu longiore quam latiore, dentibus duobus instructa, dente postico longiore et acuminato. Pedes quinti et sexti paris articulo tertio longitudinem quarti et quinti junctorum vix superanti. Pedes septimi paris articulo quarto longiore quam quinto, articulo tertio prælongato, longiore quam primo. Pedes saltatorii ultimi paris pedunculo vix dimidiam longitudinem rami interioris æquanti. Longitudo animalis c. 5 mm." It comes, he says, very near to *Dulichia porrecta*. Of another *Dulichia*, spec. dubia, he had only a single defective specimen, a female with eggs. This he describes, as also the female of *Hela montrosa*, Boeck, in which his two specimens showed the first gnathopods larger than the second, having the hand curved, not with three, but only two teeth. He describes the tubes of *Siphonæcetes cuspidatus*, Metzger, as apparently very fragile.

*Byblis crassicornis*, n. s., Tab. vi. fig. 9 is thus described:—

"Femina. Corporis forma angustior, antennæ vero robustiores quam in B. Gaimardi; segmentum postabdominis quartum in anteriore parte paulum transverso impressum, postice obtuso carinatum; segmentum postabdominis tertium in angulo inferiore posteriore rotundatum. Caput inter antennas superiores parum productum. Antennæ superiores inferioribus haud multum breviores, articulo pedunculo secundo prælongato, ter longiore quam primo. Antennæ inferiores articulo quarto parum longiore quam quinto. Pedes primi paris manu paulum brevior quam carpo; pedes secundi paris manu multo brevior quam carpo angusto. Pedes tertii et quarti paris ungue tam longo quam articulo quinto. Pedes quinti paris articulo primo altiore quam lato, ovali, in margine posteriore lobo lato semiorbiculari instructo. Pedes sexti paris articulo primo marginibus fere rectis. Pedes septimi paris articulo primo ad marginem inferiorem articuli tertii deorsum et postice productum, articulo quinto lineari, vix brevior quam quarto, ungue styliforme paulo brevior quam articulo quinto. Appendix caudalis parum longior quam ad basin lata, postice angustior et rotundata in summo dimidio fissa, lacinia utraque in superficie spinis singulis armata. Longitudo corporis 8mm.—Habitat extra oras Norvegiæ Jæderenses in profunditate 106 orgyrum."

On "*Ampelisca Eschrichti*," Kröyer, he notes some differences from Boeck's account. For his criticism of the description and figures assigned by Buchholz to this species, see Note on Buchholz, 1874. He gives some account of *Tritropis helleri*, Boeck, and observes that,