

ISOPODA ASELLOTA: JANIRIDAE FROM THE AZORES¹By ANNIE LEMERCIER²

Dollfus (1889) described a species of *Jaera*, *guernei* from a stream at Caldeira Funda de Lagens and Ribeira Grande, «hauteurs de Fajenzinhas» on the Isle of Flores, in the Azores. Kasselyák (1938) demonstrated that *guernei* was a synonym of *Jaera nordmanni* (Rathke). Lemerrier (1960) on studying the taxonomy, ecology and distribution of the *J. nordmanni* complex examined the typical material of *guernei* which is in the Muséum National d'Histoire Naturelle de Paris and stated that it belonged to *J. (nordmanni) nordmanni*.

In the material collected by Dr. P. Brinck and Dr. E. Dahl there are numerous specimens of this species from a number of localities from the Azores as follows.

Jaera (nordmanni) nordmanni (Rathke, 1837)

São Miguel: Vila Franca do Campo, 28.II.1957, 7 specimens on stones on marine sand beach, in the tidal zone; 1 specimen on stone near the high water level. Loc. 2.—Fonte da Rocha near Relva, 4.5 kilometers W of Ponta Delgada, very numerous specimens (159 specimens were collected) occurred under a cover of green algae at a spring from an 8-10 m. broad crack in the high coastal precipice. The spring was about 15-20 m. a. S.l. The water temperature was 17.6°C and pH 7.2 at 15.30 hs; air temperature 21.6°C. Loc. 11.—Ribeira das três Voltas near Ribeira Chã, 15.III.1957, at the outflow of a stream which was 1 to 2 m. broad, fast-running on sand bottom with numerous stones. In the tidal zone on stones: 6 specimens, in the stream well above the high water level: 28 specimens. Loc. 35.

1) Report No. 53 from the Lund University Expedition in 1957 to the Azores and Madeira. In *Boletim do Museu Municipal do Funchal*, No. XXII, Art. 99.

2) Laboratoire de Zoologie, Faculté des Sciences, 14-Caen-France.

Santa Maria: Praia, 30.III.1957, sand beach, in the tidal zone on stones at the outflow of a stream 20 specimens. Loc. 47.

Flores: Ribeira d'Além da Fazenda, 3 km. NW of Santa Cruz, in 2-3 m. broad stream, at most about 1 m. deep, fast-running on stony bottom, under stones near the shore numerous specimens occurred from the outflow of the stream and upstream beyond rapids (about 270 specimens collected); in spring (rheocrene) in the slope above the stream, 20 specimens, water temperature 15.5°C (air temperature 17.2°C). Loc. 108.

J. (n.) nordmanni has a wide distribution from the Black Sea through the Mediterranean to the Azores. It is a euryhalinic species which has been found in springs and streams, always near the sea, as well as in the tidal zone in the sea. It has been demonstrated that freshwater specimens can be reared in sea water and that the change does not affect morphological characters (Lemercier 1960).

J. (n.) nordmanni seems to be widely distributed in the Azores where it occurs as a litoral marine species at the same time as it is met with abundantly in freshwater habitats, like streams and springs. The latter localities were all close to the sea. The species was never collected in the numerous springs, lakes and streams which were examined in the interior of the various Azorean islands.

J. (n.) nordmanni was not collected by Drs. Brinck and Dahl on Madeira, but at Funchal (Ribeiro Seco, locs 111, 137) *J. (nordmanni) massiliensis* Lemercier was taken in the tidal zone on stones together with *Janira maculosa* Leach. The taxon which is recorded from the Mediterranean has so far been collected under pure marine conditions only (Lemercier 1960).

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