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REPORT ON THE SCHIZOPODA, CUMACEA, ISOPODA, AND AMPHIPODA OF THE CHANNEL ISLANDS.

BY ALFRED O. WALKER, F.L.S. AND JAMES HORNELL.

INTRODUCTION.

THE Crustacea in the following list (excepting those printed in heavy type) were collected by Monsieur E. Chevreux, the well known French Carcinologist, who was so obliging as to send me the list he had intended to publish in this Journal, by Dr. C. H. Hurst, Mr. Hornell, and myself, as indicated below. Some of the names also are taken from a collection of Jersey Crustacea in the Free Public Museum at Bootle, Lancashire,¹ sent to me for identification by Mr. Chadwick.

To make the list as complete as possible, Mr. J. Hornell, the Director of the Jersey Biological Station, has added a number of additional species and localities, which have either been recorded in previous publications, or have been collected and identified by him or by Mr. J. Sinel, and of which latter, the present is the first publication. All these additional forms are distinguished by being printed in heavy black type.

The following are the localities indicated by the letters and figures attached to the names:—

Jersey (J).

1. Two miles off St. Helier's Harbour, 9-10 fath. March 26, 1892; A.O.W. & C.H.H.
2. Near the Red Buoy at the harbour entrance, 4 faths. gravel, clinkers with *Sabella* tubes, &c.; same date and collectors.
3. Shore near St. Helier's; A.O.W. & C.H.H. March 27 and 28.
4. Shore Portelet Bay. March 30. A.O.W. & C.H.H.
5. Shore, Grande Azette, low spring tide; March 31, A.O.W. and J. Hornell.

¹ These were collected by Mr. J. Sinel in former years.—Ed.

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6. 4 miles S.E. of harbour, 10-12 fath., stony and rocky ground, April 1; A.O.W. & C.H.H.
 7. Shore below Grand Hotel, half tide; April 2, A.O.W.
 8. Collections from Jas. Hornell, July, 1892, &c.
 9. Half-tide ponds among the reefs in St. Clement's Bay.
 10. Between tide-marks, S. coast Jersey—chiefly from low-tide zone.
 11. Tow-netted off S. coast Jersey.
 Ch.—Collected and named by Monsieur E. Chevreux from low tide on Grève d'Azette, 1895.
 Bo. Mus.—Collection from Bootle Museum, 1895.

Guernsey (G).

1. Off St. Peter's Port; 7 fath., gravel, clinkers and shells. April 4, 1892, A.O.W.
2. Between the Castle and St. Martin's, 10-15 faths.; April 5, A.O.W.
3. Off St. Martin's, 25 fath., April 5, A.O.W.
4. Between tide-marks, chiefly low-tide.

S.B.—Indicates records from the Channel Islands in Spence Bate & Westwood's "*History of the Br. Sessile-eyed Crustacea*," London 1863 to 1868.

R.K.—Species and localities recorded by Prof. R. Kœhler in "*Recherches sur la Faune Marine des Iles Anglo-Normandes*," Nancy, 1885, which are not overlapped by other records.

* A prefixed asterisk indicates such species of Isopods and Amphipods as are named in the last cited work.

S. & H.—Collected or identified by J. Sinel and Jas. Hornell.

A.O.W.

SCHIZOPODA.

- Macromysis flexuosus* (Müller). J 11, common (S. & H.).
 " *neglectus* (Sars). J 11 (S. & H.).
 " *inermis* (Rathke). J 1, also from Guernsey by Canon A. M. Norman ("*Ann. & Mag. Nat. Hist.*," Series 5, No. xix.)
Macropsis Slabberi, van Beneden. Bo. Mus.
Schistomysis Helli (Sars). J 11 (S. & H.).
Gastrosaccus spinifer (Goës). Bo. Mus.
Anchialus agilis, G. O. Sars. G 1, G 2.
Cynthilia (Siriella) crassipes (G. O. Sars). G 2, also recorded by Norman, from Jersey *loc. cit.*
Cynthilia armata (M. Edw). Jersey (Norman, *loc. cit.*)

CUMACEA.

- Iphinoë trispinosa* (Goodsir). J 1, J 2.
Nannastacus unguiculatus, Bate. G 2.
Pseudocuma longicornis (Bate). J 1, J 2.
Diastylis spinosa, Norman. G 1.

ISOPODA.

- **Tanais vittatus* (Rathke). J 10, G 4 (S. & H.).

- **Leptocheilia Savignyi* (Kröyer).—*L. Edwardsi* (Kröyer). G 4 (S.B.); J 10 (S. & H.); Sark (R.K.)
- **Paratanaïs Batei*, Sars,= *P. forcipatus* (Lillj.). Bo. Mus.; Guernsey (S.B.); J 10 (S. & H.); Sark (R.K.)
- Apseudes Latreillei* (M. Edw.). J 2, G 1.
- **Apseudes talpa* (Mont.). off Guernsey (S.B.); J 10 (S. & H.)
- Anthura gracilis* (Mont.). With *Corophium* and *Obisium* in rock crevices, Jersey (S. & H.)
- **Paranthura nigropunctata* (Lucas)= *P. costana*, Bate & West. J 9 (S. & H.); off Jersey (S.B.); J 12 & G 4 (R.K.)
- **Gnathia macillaris* (Montagu). Bo. Mus.; common in all the islands, often commensal with sponges, &c., and also free, in the tow-net (S. & H.)
- **Anilocera asilus* (Linn.)= *A. mediterranea*, Leach. Herm (S.B.); common as parasites, male and female together, upon the head of Wrasse (Labridæ) (S. & H.)
- Aega rosacea* (Risso)= *A. bicarinata*, Leach. Two specimens on a *Squatina angelus*, Jersey (S. & H.)
- **Cirolana Cranchii*, Leach. Off coast of Jersey (R.K.)
- Eurydice spinigera*, Hansen. Probably identical with *E. truncata*, Norman. Bo. Mus.
- Eurydice achatus* (Slabber)= *E. pulchra*, Leach. Common Jersey and Guernsey (S. & H.)
- **Conilera cylindracea* (Mont.). Bo. Mus.: Guernsey (S.B.); Jersey (S. & H.)
- **Sphaeroma serratum* (Fabr.). J 7; common under stones, Jersey (S. & H.) & (R.K.)
- **Sphaeroma curtum*, Leach. The *S. Prideauxianum*, Leach, of Kœhler's list, is probably this species, as the two names are now considered synonyms. J 8; common (S. & H.)
- Sphaeroma Hookeri*, Leach. Guernsey (S.B.)
- Campecopea hirsuta* (Mont.). Common in the dry Fuci at high-water mark in all the islands (S. & H.)
- **Dynamene rubra* (Mont.)= *D. viridis*, Leach. J 3, J 8; common (S. & H.)
- **Dynamene Montagui*, Leach. In empty *Balani* shells (R.K.)
- **Cymodoce truncata* (Mont.). Bo. Mus.; J 10 (S. & H.)
- **Næsa bidentata* (Adams). Vazon Bay, Guernsey (S.B.); in empty *Balani* shells, Jersey (R.K. and S. & H.)
- **Idotea marina* (Linn.), *I. tricuspидata*, Desm. and *I. pelagica*, Leach. J 4; all islands, among algæ, and also in tow-net at night (S. & H.)
- **Idotea linearis* (Pennant). Guernsey (S.B.); J 10 & 11 (S. & H.)
- **Idotea emarginata* (Fabr.). Tow-net only, Jersey (R.K.)
- Zenobiana prismatica*, Risso. Bo. Mus.
- **Stenosoma acuminata* (Leach). A single specimen, St. Aubin's (R.K.)
- **Stenosoma lancifer* (Leach.)= *S. appendiculata* (Risso).
- Munna Kroyeri*, Goodsir. J 9 (S. & H.)
- **Janira maculosa*, Leach. J 4; Common under stones, Jersey (R.K.) and (S. & H.)
- Jæra albifrons*, Leach. J 7; Common (S. & H.)
- **Jæra nordmanni* (Rathke). J 10 (S. & H.); Sark (R.K.)
- **Jæropsis brevicornis*, Kœhler. Gouliot Caves, Sark (R.K.)
- Asellus aquaticus* (Linn.). Common in ponds and ditches (S. & H.)
- **Limnoria lignorum* (Rathke). Common in piles and wooden staging in the sea (S. & H.)

- Ione thoracica* (Mont.) A male and a female on a *Callianassa*, Jersey (S. & H.)
- Gyge hippolytes* (Kröyer.) Parasitic on *Hippolyte* (S. & H.)
- Gyge galathea*, Sp. Bate & West. Parasitic on *Galathea squamifera* chiefly, Jersey and Guernsey (S. & H.); Herm (S.B.)
- **Bopyrus squillarum*, Latr. Parasitic upon *Palæmon serratus* very commonly at all the islands (S. & H.); S.B. records it upon *P. Leachii* from same localities.
- Liriopsis pygmæa* (Rathke). In dredge off Guernsey (S.B.)
- **Ligia oceanica* (Linn.) Bo. Mus.; Common among rocks near high water mark, even invading houses at times (S. & H.)
- Oniscus asellus* (Linn.). Very common under decaying wood and similar habitats (S. & H.)
- Porcellio scaber* (Latr.). Common, Jersey (S. & H.)
- Armadillo vulgaris* (Latr.). Common amid decaying wood, &c. (S. & H.)

AMPHIPODA.

- **Orchestia mediterranea*, Costa. J 3; Ch.; male specimens were 20 mm. long; common, J 9 (S. & H.)
- **Talitrus locusta* (Pallas). Bo. Mus.; Ch.; Very common towards high-water, even invading houses at high spring tides (S. & H.)
- Hyale Nilssoni* (Rathke). J 3, 7, Ch.
- Lysianax longicornis* (Lucas). J 5, 8, G 2; J II (S. & H.)
- Lysianax Costæ* (M.Edw.). G 2.
- Perrierella Audouiniana* (Bate). Ch.
- Orchomene Batei*, Sars. J 5. 6; Ch.; rather rare, Jersey (S. & H.)
- Nannonyx Goëssii* (Boeck). J 5.
- Tryphosa Sarsii* (Bonnier). J 5.
- Lepidepcreum carinatum*, Bate. G 1; Jersey (S. & H.)
- Bathyporeia norvegica*, Sars. Ch.
- Bathyporeia pilosa*, Lindström. Under this species I include *B. pelagica*, Bate, and *B. Robertsonii*, Bate. G 1; common in certain spots on the Jersey coast, burrowing in sand (S. & H.)
- Urothoë marinus*, Bate. Bo. Mus.; Ch.
- Urothoë brevicornis*, Bate. G 1, 2, 3; J 11 (S. & H.)
- Urothoë pulchella* (Costa). Ch.
- Phoxocephalus Fultoni* (Scott). J 6; G 3.
- Phoxocephalus pectinatus*, Walker. (Ann. & Mag. of Nat. Hist., Ser. 6. Vol. xvii. p. 343).—*P. simplex*, Calman, in Trans. Royal Irish Academy, Ap., 1896, nec Sp. Bate; see also Ann. & Mag. of Nat. Hist., xviii. p. 156. The type specimens from which the specific diagnosis was made were dredged off St. Peter's Port, Guernsey, in 7 faths., Apr. 4, 1892.
- Ampelisca typica* (Bate). Ch.; dredged off Noirmont Point, Jersey (S. & H.)
- Ampelisca brevicornis* (Costa),—*A. levigata*, Lillj. Bo. Mus.; Ch.; taken in company with the preceding species in dredge (S. & H.)
- Ampelisca tenuicornis*, Lilljeborg. G 1, 2; Ch.
- Ampelisca gibba*, Sars. G 1.
- Amphilocheus manudens*, Bate. Bo. Mus.; J 9 (S. & H.)
- Amphilocheus melanops*, Walker. (Rev. of Amphipoda of L. M. B. C. District, Trans. L'pool Biol. Soc., ix., 1895, p. 298, Pl. 18, 19).

- Stenothoë monoculoides* (Mont.). J 3; G 1; Ch.; J 9 (S. & H.).
Metopa borealis, Sars. G 3.
Leucothoë spinicarpa (Abildgaard). J 5, 8; G 2; J 9 (S. & H.).
Leucothoë Lilljeborgii, Boeck. G 3; Ch.
Monoculodes carinatus, Bate. J 1, 2; Ch.
Perioculodes longimanus (Bate). J 1, 2; G 1, 2; Ch.
Synchelidium haplocheles (Grube). J 1, 2; G 1, 2, 3; Ch.
Pontocrates norvegicus, Boeck. Ch.
Iphimedia obesa, Rathke. G 2.
Eusirus longipes, Boeck. G 3.
Apherusa Jurinii (M. Edw.), = *Pherusa fucicola*, Leach. J 3, 8.
Apherusa cirrus (Bate), = *Pherusa bicuspis*, Bate. J 5; Ch.
Apherusa bispinosa (Bate). J 1, 2, 6, 8; G 1, 2, 3; Ch.
Calliopius leviusculus (Kröyer). J 4.
Paratylus Swammerdamii (M. Edw.). J 2, 4, 6; Ch.
Paratylus vellomensis (Bate). J 1; G 2, 3.
Dexamine spinosa (Mont.). J 2, 5, 8; Ch.; Common (S. & H.).
Dexamine thea, Boeck. J 8; Ch.
Tritæta gibbosa (Bate). J 3.
Amathilla homari (Fabr.), = *A. sabini* (Leach). Bo. Mus.; Jersey (S. & H.).
Gammarus marinus, Leach. J 5, 6; G 2; Ch.; Common (S. & H.).
Gammarus campylops, Leach. Ch.; Jersey (S. & H.).
Gammarus locusta (Linn.). G 2; Ch.; Jersey (S. & H.).
Gammarus Berilloni, Catta. Valley des Vaux and a ditch near St. Brelade's Bay, Jersey (Ch.). Hitherto this species has been met with only in the Western Pyrenees, and hence its presence in Jersey is an interesting and difficult problem. For a valuable account of this species, together with figures of its distinctive characters, see M. Ed. Chevreux's paper "Sur le *Gammarus Berilloni*, Catta," in *Bulletin de la Soc. Zool. de France*, tome XXI. p. 29.
Gammarus pulex (de Geer). Common in ditches and fresh water streams in Jersey and Sark (Ch.); Jersey and Guernsey (S. & H.).
Melita palmata (Mont.). J 4, 5; Ch.
Melita obtusata (Mont.). J 2; Ch.; Jersey (S. & H.).
Melita gladiosa, Bate. G 2; low-tide pool, Bordeaux Harbour, Guernsey (S. & H.).
Mæra grossimana (Mont.). J 5; G 1; Ch.; J 10, very common (S. & H.).
Mæra Othonis (M. Edw.). G 1, 2, 3.
Mæra semiserrata (Bate). G 2, 3.
 The last two species I consider to be identical, the latter being the immature form.
Mæra Batet, Norman. G 1, 2.
Megaluropus agilis, Norman. G 1.
Cheirocratus Sundevalli (Rathke). G 1, 2; Ch.
Cheirocratus assimilis (Lilljeborg). G 2, 3.
Gammarella brevicaudata (M. Edw.). Probably the *G. longicornis* of Koehler; see Stebbing on "Challenger" Amphipoda, p. 566. J 2, 5, 7.
Microdeutopus damnoniensis (Bate). J 3; G 1; Ch.
Microdeutopus gryllotalpa, Costa. Ch.
Microdeutopus (Stimpsonella) chelifera (Bate). Ch.; J 9 (S. & H.).
Microdeutopus versiculatus, Bate. Ch.

Aora gracilis, Bate. G 2, 5, 8.

Leptocheirus pilosus, Zaddach, = *L. pectinatus* (Norman). G 1; Ch.

Monsieur Chevreux expresses doubt as to the identity of the above species mainly on the ground that while Norman describes the dactylus of the 1st gnathopods as "much longer than the truncated extremity of the propodos," Zaddach, as translated by Spence Bate, says it is "as long as the palm." But it seems to me that Zaddach considered the palm to be defined by the spine which is situated a little below the ill-defined angle formed by the truncated extremity and the posterior margin, in which case both his definition and Norman's would be correct.

Gammaropsis maculata (Johnston), = *G. erythrophthalmus*, Lillj. J 3, 6; J 9 (S. & H.).

Megamphopus cornutus, Norman. J 6; G 3.

Microprotopus maculatus, Norman. J 2; Ch.

Photis longicaudatus (Bate). G 1, a large male; dredged off La Rocque, Jersey (S. & H.).

Amphithoë rubricata (Mont.); J 5, 7; G 1; Ch.

Pleonezes gammaroides, Bate. J 5; Ch.; J 9 (S. & H.).

Sunamphithoë conformata, Bate. Bo. Mus.; Ch.

Podocerus falcatus (Mont.). J 1, 4 (S. & H.).

Podocerus ocius, Bate. A male, J 8.

Erichthonius abditus (Templeton). J 6; G 1.

Siphonæcetes Colletti, Boeck. G 1; Ch.; J 11 (S. & H.).

Corophium crassicornis, Bruzelius. G 3; Ch.

Corophium grossipes (Linn.). Bo. Mus.; Jersey (S. & H.).

Colomastix pusilla, Grube, = *Exunguia stillipes*, Nordm. of Kœhler's list. Ch. Sark (R.K.)

Chelura terebrans, Philippi. J 2; Common (S. & H.).

Dulichia porrecta, Bate. J 6; G 2.

Phthisica marina, Slabber. J 4, 5; Ch.; on trawl rope, Jersey (S. & H.).

Pariambus typicus (Krøyer). J 2.

Caprella acanthifera, Leach. The *C. hystrix* of Kœhler's list. Ch.; Common, Jersey (S. & H.).

Caprella acutifrons, Latreille. J 6.

The following additional species of Amphipods are communicated by Mr. Jas. Hornell as collected and identified by him and Mr. Sineel:—

Hoplonyx cicada (Fabr.), = *Anonyx Holboli*, Krøyer. Jersey.

Menigrates obtusifrons Boeck, = *Anonyx plautus*, Krøyer. Guernsey.

Pontocrates arenarius (Bate). Jersey.

Laphystius sturionis, Krøyer, = *Darwinia compressa*, Bate. Fairly common. J 9.

Urothoë elegans (Bate). J 9, 11; not common.

Isœa Montagui, M. Edw. J 9.

Iphimedia eblanœ, Bate = ? *I. minuta*, Sars. A single specimen dredged off Grève d'Azette. Oct., 1887.

Niphargus fontanus, Bate. Several specimens have been procured from two wells on the outskirts of St. Helier, Jersey.

Lætmatophilus tuberculatus, Bruzelius, = *Cyrtophium Darwinii*, Bate. J 9, common.

Hyperia galba (Mont.). Frequent in the genital pouches of *Rhizostoma*.

Caprella linearis. Not uncommon. J10.

As completing the list of the known Amphipod Fauna of the Channel Islands, Mr. Hornell adds the following six species which have so far been recorded by Prof. Köhler alone (*loc. cit.*):—

Orchestia littorea, Leach. Jersey, among algæ.

Nicea Lubbockiana, Sp. Bate. Sark; Jersey, in company with *Styelopsis*.

Stenothoë marina, Sp. Bate. Sark; Jersey, in same habitats as *Nicea*.

Podocerus capillatus, Rathke. Sark; among *Styelopsis*, Jersey.

Lembos Websteri, Sp. Bate. Sark.

Protella phasma, Sp. Bate. Jersey.