

LAND, FRESH-WATER, AND MARINE CRUSTACEA.

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ORDER PODOPHTHALMA.

AUTHORITIES AND REFERENCES.

- (F. S. G.)=The Statistics of the work of the Fishery Board, S.S. "Garland."
- (H.)=Prof. J. R. Henderson "The Higher Crustacea of the Clyde" (*N. H. Soc. Glasg. Trans.*, vol. i. (N. S.) p. 315.
- (M.)=MS. records of Sir John Murray's S. Y. "Medusa."
- (A. M. N.)=Rev. Canon A. M. Norman, F.R.S., "A Revision of the British species of Schizopoda" (*Ann. and Mag. N. H.*, 1892).
- (R.)=Records of the late Dr. Robertson, Millport.
- (C.)=Dr. W. Y. Calman, Dundee, "On the genus *Pandalus*."
- (S.)=Thomas Scott, F.L.S.

NOMENCLATURE AND CLASSIFICATION FOLLOWED.

Rev. T. R. R. Stebbing, "History of the Crustacea," 1893 (*Intern. Scient. Ser.*)

Shall. w.=shallow water; l. m. w.=low water of ordinary or spring tides; d. w.=deep water; bet. t. m.=between tide marks; h. w.=high water.  
[Insufficiently attested or doubtful species are enclosed within square brackets.]

Sub-Order Brachyura.

Fam. Cancridae.

- Cancer pagurus*, *Lin.*—C. on rocky shores (H.).
- Xantho hydrophilus* (*Herbst.*)—One captured at mouth of estuary 15/6/1899 (F. S. G.). Fishery Board's Coll., Aberdeen.
- Pilumnus hirtellus*, (*Lin.*)—Portloy, Cumbrae, under stones at l. w. (R.). Apparently r.

Fam. Portunidae.

- Carcinus maenas* (*Penn.*)—C. bet. t. m., and in shall. w. inshore; sometimes in 10-20 f. upwards.
- Portunus puber* (*Lin.*)—Cumbrae; Lamlash B.; L. Fyne (H.); Shallow Bays, Barmore (S.).
- P. depurator* (*Lin.*)—The most c. *Portunus* in the Clyde (H.).
- P. corrugatus* (*Penn.*)—One off Tan Buoy, 8 f. (H.).
- P. arcuatus*, *Leach.*—F. of Clyde, not r.
- P. pusillus*, *Leach.*—Mod. c.; hard ground, down to 30 f. (H.); nr. Fort Matilda, Greenock (S.).

*P. marmoreus*, *Leach.*—Several localities (H.).  
*Portunus latipes* (*Penn.*)—Washed ashore, Irvine sands (R.).

**Fam. Corystidae.**

*Corystes cassivelaunus*, (*Penn.*)—Kames B., Cumbrae, sand below l. w. m. (R.): small male at mouth of estuary, 15/6/99 (F. S. G.).  
*Atelecyclus septemdentatus* (*Mont.*)—One from Alland Bank, Millport B. (R.).

**Fam. Ocypodidae.**

*Gonoplax rhomboides* (*Lin.*)—Ayrshire coast (G. & M.): nr. Ailsa Craig (trawled, F. S. G.): shore, Ardeer (J. Smith).

**Fam. Pinnotheridae.**

*Pinnotheres pisum* (*Lin.*)—Not unc. in *M. modiolus*, occasionally in *C. edule* (H.).

**Fam. Inachidae.**

*Macropodia rostratus* (*Lin.*)—Not unc. in lower Clyde.  
*M. longirostris* (*Fabr.*)—Mod. c., gen. dist.; more c. than *M. rostratus*.  
 [*Achaeus cranchii*, *Leach.*—One, off Cumbrae by Mr. Kennedy (R.): U. L. Fyne, 10 f. (M.).]  
*Inachus dorsettensis* (*Penn.*)—C. and gen. dist.  
*I. dorynchus*, *Leach.*—Gen. dist., less c. than *I. dorsettensis*.  
*I. leptochirus*, *Leach.*—F. of Clyde (A. M. N.): bet. Cumbrae and Bute, 20 f., r. (R.).

**Fam. Maiidae.**

[*Maia squinado* (*Herb.*)—Off Dunoon, 1878 (Fleming): off Ardrossan (Maj. Martin): W. of Bute (Grieve) (See H.).]  
*Hyas araneus* (*Lin.*)—C. and gen. dist., esp. inshore.  
*H. coarctatus*, *Leach.*—C. and gen. dist., esp. in d. w.

**Fam. Parthenopidae.**

*Eurynome aspera* (*Penn.*)—Not c.; 10-60 f.; usually hard ground (H.): off Fort Matilda 10 f. (S.).

**Fam. Leucosiidae.**

*Ebalia tuberosa* (*Penn.*)—Gen. dist.; usually hard ground, 5-50 f. (H.): off Fort Matilda (S.).  
*E. tumifactor* (*Mont.*)—Lamlash B. (G.; H.): Alland Bank, Millport B. (R.): Kilbrennan Sd., 15 f. (Brook).  
*E. cranchii*, *Leach.*—Lamlash B. (L.: M.): off Lion Rock Cumbrae (Alex. Patience)!

*Sub-Order Macrura.*

**Fam. Lithodidae.**

*Lithodes maia* (*Lin.*)—D. w. L. Fyne, and Clyde; gen. dist.; somewhat r. (H.; F. S. G.).

**Fam. Paguridae.**

*Eupagurus bernhardus* (*Lin.*)—Abund., more inshore than in d. w.  
*E. prideauxi* (*Leach.*)—Mod. c., more in d. w. than inshore.  
*E. cuanensis* (*Thomp.*)—Skelmorlie Bank; off Portincross; Cumbrae; Lamlash B.; not very c. (H.).  
*E. pubescens* (*Kr.*)—Mod. c.; hard ground; usually enveloped by *Hymeniacidon tuberea* (H.).  
*Anapagurus hyndmanni* (*Thomp.*)—F. of Clyde, 10-15 f. (A. M. N.): off Cumbrae (R.): E. L. Tarbert (S.).

*A. laevis* (Thomp.).—Gen. dist., 10-105 f. (H.): mod. freq. in Clyde and L. Fyne.

*A. chiroacanthus* (Lillj.).—Skelmorlie Bank; off Portincross; Tan Buoy; Lamlash B. (H.): E. L. Tarbert (S.).

**Fam. Porcellanidae.**

*Porcellana platycheles* (Penn.).—Under stones, nr. Cumbrae; Lamlash B. (H.): Lunderston B. (S.).

*P. longicornis* (Lin.).—C. and gen. dist., more freq. inshore; usually hard ground.

**Fam. Galatheididae.**

*Galathea squamifera*, Leach.—Under stones l. w., Cumbrae; Lamlash B.; off Fairlie (H.): U. L. Fyne (M.); E. L. Tarbert; Lunderston B.

*G. nexa*, Embleton.—L. Fyne, 20-40 f.; Tan Buoy, 7-8 f.; Lamlash B.; Skelmorlie Bank; etc. (H.); U. L. Fyne (M.).

*G. dispersa*, Bate.—Mod. c. and gen. dist.; usually hard ground.

*G. intermedia*, Lillj.—C. hard ground, 10-20 f. (H.): L. Fyne 10-20, f. (M.).

*G. strigosa*, Fabr.—Under stones at l. w. spring tides, Cumbrae; young dredged off Roseneath Pt., 15 f., hard ground (H.): Strachur B. (S.).

*Munida rugosa* (Fabr.).—Gen. dist. and mod. c., usually d. w.

**Fam. Thalassinidae.**

*Jaxea nocturna*, Nardo.—Adult fragments twice (1899) in fish stomachs nr. Ailsa Craig (F. G. Pearcey): Young at times freq. in bottom tow-net (F. S. G.).

**Fam. Thaumastochelidae.**

*Calocaris macandreae*, Bell.—L. Fyne, 40-105 f.; off Tarbert; off Wemyss B., 40 f.; off Brodick B., 93 f. (H.).

**Fam. Palinuridae.**

*Palinurus vulgaris*, Latr.—Off Campbeltown; L. Fyne (H.): r.

**Fam. Nephropsidae.**

*Nephrops norvegicus* (Lin.).—C., usually d. w.

*Astacus gammarus* (Lin.).—Rocky shores nr. mouth of Firth, c., (H.): E. L. Tarbert, etc.

**Fam. Crangonidae.**

*Crangon vulgaris* (Lin.).—Mod. c.; shall. w. inshore, on sandy, weedy bottom.

*C. allmanni*, Kinahan.—C. and gen. dist., mostly in d. w.

*Egeon sculptus* (Bell.).—Lamlash B., 5 f., two (A. M. N.); off Muggie Pt., L. Cumbrae, 20 f., one (H.).

*Pontophilus spinosus*, Leach.—Not c.; many localities as far up as Cloch L. H., usually soft ground 20-60 f. (H.).

*Cheraphilus nanus* (Kr.).—Off Cumbrae (R.): Ballantrae Bank (F. S. G.).

*C. echinulentus*, M. Sars.—Off Skate I., L. Fyne, 105 f., one (H.): not very r. at mouth of estuary (F. S. G.).

*C. neglectus*, G. O. Sars.—Occasionally in E. L. Tarbert and vicinity, 5-20 f. (S.).

**Fam. Nikidae.**

*Nika edulis*, Risso.—One off Skate I., 105 f.; one off Brodick 93 f. (H.): occasionally in shrimp-trawl in seaward part of estuary (F. S. G.).

**Fam. Hippolytidae.**

*Caridion gordonii* (Bate).—Lamlash B. (A. M. N.): not c. throughout Firth; d. w. (H.).

- Hippolyte varians*, *Leach*.—C.; rock pools l. w., and lam. zone (H.): c. E. L. Tarbert.  
*H. prideauxiana*, *Leach*.—Shrimp trawl nr. mouth of estuary, 11/96 (F. S. G.).  
 [*H. fascigera*, *Gosse*.—E. L. Tarbert, amongst *zostera*, not r. Now considered to be a form of *H. varians*.]  
*Spirontocaris spinus* (*Sowerby*), var. *Hippolyte securifrons*, *Norm*.—Is mod. c. Typical *S. spinus* at mouth of estuary, but r. (*vide* Stebbing).  
*S. cranchii* (*Leach*).—L. Fyne; off Cumbrae; off Craigmore; Hawk's Neb, Bute (H.): E. L. Tarbert (S.).  
*S. pusiola* (*Kr.*).—Off Cumbrae (R.): L. Goil; L. Long (H.).  
*S. gaimardii* (*M. Edw.*).—Gen. dist., prob. not very r. (H.).

## Fam. Pandalidae.

- Pandalus montagui*, *Leach*.—C. and gen. dist.; largest and most highly coloured from d. w.  
*P. bonnieri*, *Caullery*.—L. Fyne; L. Long (Calman).  
*P. propinquus*, *G. O. Sars*.—L. L. Fyne; L. Long, 40 f. (Calman).  
*Pandalina brevisrostris*, (*Rathke*).—C. and gen. dist. (H.).

## Fam. Palaemonidae.

- Leander squilla* (*Lin.*).—C.; rock pools (H.).  
*Palaemonetes varians* (*Leach*).—Cumbrae at l. w. (R.): Inverkip (S.)

## Fam. Pasiphaeidae.

- Pasiphaea sivado* (*Risso*).—Off Skate I. 105 f. (H.): off Strachur 70 f. (M.): mid-water tow-net, L. L. Fyne; not r. at mouth of estuary (F. S. G.).

## Sub-Order Schizopoda.

## ARRANGEMENT AND NOMENCLATURE FOLLOWED.

Rev. Canon A. M. Norman, F.R.S., D.C.L., "Revision of the Brit. Species of Schizopoda" (*Ann. and Mag. N. H.*, Ser. 6, vol. ix., pp. 454-464, and Ser. 6, vol. x., pp. 143-166; and pp. 241-263, 1892).

## Fam. Euphausiidae.

- Rhoda raschii* (*M. Sars*) (= *Boreophausia raschii*).—Gen. dist., sometimes c. esp. in L. Fyne.  
*R. inermis* (*Kr.*).—Clyde (Brook; Hoyle). Off Sanda I. 20-27 f. (F. S. G., 15/12/98).  
*Nyctiphanes norvegica* (*M. Sars*).—Gen. dist., usually more c. in L. Fyne than elsewhere.  
*Thysanoessa neglecta* (*Kr.*).—In bottom tow-net bet. Ailsa Craig and Sanda I. 20 f. (F. S. G., 16/1/99).

## Fam. Mysidae.

- Siriella clausii*, *G. O. Sars*.—E. L. Tarbert; L. Gilp; r. (F. S. G.).  
*S. brooki*, *Norman*.—E. L. Tarbert, 1886 (S.).  
*S. armata* (*M. Edw.*).—Cumbrae, in surface tow-net, r. (R.): E. L. Tarbert; L. Gilp (S.).  
*Gastrosaccus spinifer* (*Goës*).—F. of Clyde (R.); nr. Sanda I.; nr. Ailsa Craig 20-30 f.; S. of Davaar I. 7-10 f. (F. S. G.).  
*Anchialus agilis*, *G. O. Sars*.—Nr. Sanda I. 20-27 f. (F. S. G., 15/12/98).  
*Heteromysis formosa*, *S. I. Smith*.—Dredged, Tarbert Bank, L. L. Fyne (F. S. G., 1899): r.  
*Erythroops elegans*, *G. O. Sars*.—Gen. dist. from U. L. Fyne to seaward limits of estuary; rarely captured except in bottom tow-net.  
*E. serratus*, *G. O. Sars*.—Dist. somewhat similar to *E. elegans*.

- Mysidopsis didelphys* (Norman).—Off Cloch L.H. 43 f. (H.): dist. from U. L. Fyne to mouth of estuary.
- M. gibbosa*, *G. O. Sars.*—Gen. dist. but not very c.
- M. angusta*, *G. O. Sars.*—L. Fyne and nr. Ailsa Craig; not c. (F. S. G.)
- Leptomysis gracilis*, *G. O. Sars.*—U. L. Fyne; nr. Ailsa Craig, etc.
- L. lingvura*, *G. O. Sars.*—Gen. dist., but not very c.
- Hemimysis lamornae* (Couch).—Port Glasgow; L. Goil (R.): E. L. Tarbert; nr. Ailsa Craig; Davaar I. (F. S. G.).
- Praunus flexuosus* (Müller).—More or less c.; usually more so inshore than in d. w.
- P. inermis* (Rathke).—Cumbrae in Lam. zone (H.): E. L. Tarbert, etc. (F. S. G.).
- [*P. neglectus* (*G. O. Sars.*)—Mouth of L. Fyne 60 f. (H.): never met with by (S.).]
- Schistomysis spiritus*, Norman.—E. of Sanda I., surface tow-net 24/1/99 (F. S. G.).
- S. ornata*, (*G. O. Sars.*)—Head of L. Fyne; bet. Ailsa Craig and Sanda I.; scarce.
- S. arenosa* (*G. O. Sars.*)—E. L. Tarbert; shallow water, not r.; Ettrick B., Bute (1887) (S., A. M. N.).
- Neomysis vulgaris* (*J. V. Thompson.*)—Dhu Loch, nr. Inveraray, not r.; in stomach of 15 spined stickleback nr. head of L. Fyne (S.). (Bell suggests this = *Mysis integer* recorded by Leach from L. Ranza.)

## ORDER EDRIOPHTHALMA.

Sub-Order Sympoda.<sup>1</sup>

## ARRANGEMENT AND NOMENCLATURE.

Prof. G. O. Sars, *Crustacea of Norway*, vol. iii.

## AUTHORITIES.

- (R.)=Dr. Robertson, F.G.S., "Thirteen Cumacea from the Firth of Clyde" (*Nat. Hist. Soc. Glas. Trans.*, vol. iii. (N. S.), p. 47, 1889).
- (S.)=Thomas Scott, F.L.S., "Scottish Cumaceans" (*Ann. Scot. N. H.*, Oct. 1900). Rev. T. R. R. Stebbing, *A History of the Crustacea*.
- (A. M. N.)=Rev. Canon A. M. Norman, D.C.L., F.R.S., "On a Crangon, some Schizopoda and Cumacea, new or rare in the British Seas" (*4th Ann. Rep. Fish. Bd. for Scot.*, 1886).

<sup>1</sup> See Stebbing on change of "Cuma" and "Cumacea" to "Bodotria," and "Sympoda," in *Memoir On Crustacea brought by Dr. Wüley from the South Seas* (Camb. Univ. Press) Dec. 1900].

## Fam. Bodotriidae.

- Bodotria arenosa*, *Goodsir.*—Blackwaterfoot, Arran, 4-5 f. (R.).
- B. scorpioides* (Mont.).—Dredged, Ballantrae Bank, 6/9/98 (S.).
- B. pulchella*, *G. O. Sars.*—Dredged nr. Sanda I. (S.).
- Iphinoë trispinosa* (*Goodsir.*)—Plentiful Kames B., Millport; L. Ranza (R.): U. L. Fyne; Kilbrennan Sd. (S.).
- I. serrata*, Norman.—Kames B., Bute, 1887; off Ballantrae, 1899 (S.).
- I. tenella*, *G. O. Sars.*—Clyde (Stebbing).
- Cumopsis edwardsii* (*Spence Bate*) (= *C. goodsiri*), *V. Ben.*)—Shore pools Millport (S.).
- C. longipes* (*Dohrn.*)—Shore pools Millport (R.; S.)

## Fam. Vaunthompsoniidae.

- Vaunthompsonia cristata*, *Sp. Bate.*—E. L. Tarbert 1886; Ballantrae Bank, 15-20 f. 1899 (S.).

## Fam. Lampropidae.

- Lamprops fasciata*, *G. O. Sars.*—W. of Helensburgh Pier (R.): E. L. Tarbert; Hunterston Sands (S.), freq.  
*Hemilamprops rosea* (*Norman*).—U. L. Fyne; Kilbrennan Sd. 1899, r. (S.).  
*H. cristata*, *G. O. Sars.*—F. of Clyde 1860 by Robertson (A. M. N.).

## Fam. Leuconidae.

- Leucon nasica*, *Krøyer.*—U. L. Fyne; off Arran, E. side 43 f. (S.).  
*Eudorella emarginata* (*Krøyer*).—Rothesay B., 12 f. (R.): d. w. bet. Arran and Ayrshire (S.).  
*E. truncatula* (*Sp. Bate*).—L. Fyne; nr. Ailsa Craig (S.).  
*Eudorellopsis deformis* (*Krøyer*).—Nr. Ailsa Craig; off Sanda I. (S.).

## Fam. Diastylidae.

- Diastylis rathkii* (*Krøyer*).—E. L. Tarbert, 1886-87 (S.), r.  
*D. rugosa*, *G. O. Sars.*—L. Ranza, 5 f.; Blackwaterfoot, Arran, 20 f. (R.): E. L. Tarbert, 1886 (S.).  
*D. lucifera* (*Krøyer*).—Clyde district, mod. r. (S.).  
*D. rostrata* (*Goodsir*).—Blackwaterfoot, 20 f. (R.): Kames B., Bute, 15 f. (S.).  
*D. tumida* *Lillj.*—R., Blackwaterfoot, 20 f. (R.).  
*D. spinosa*, *Norman.*—Dredged Blackwaterfoot; W. side of Helensburgh Pier l. w. (R.).  
*Diastylodes biplicata*, *G. O. Sars.*—Blackwaterfoot, 20 f. (R.): L. Fyne; off E. of Arran 40 f.; nr. mouth of estuary 64 f. (S.).  
*Leptostylis villosa*, *G. O. Sars.*—Bet. Arran and Ayrshire coast, 40 f. 1896 (S.).

## Fam. Pseudocumidae.

- Pseudocuma cercaria* (*V. Ben.*).—Kames B., Millport (R.): freq. and gen. dist.  
*P. similis*, *G. O. Sars.*—D. w. nr. seaward limit of estuary, 12/1899 (S.).

## Fam. Nannastacidae.

- Nannastacus unguiculatus*, *Sp. Bate.*—Kames B., Millport, m. c. (R.): L. Fyne; Kilbrennan Sd., &c. (S.).  
*Cumella pygmaea*, *G. O. Sars.*—Cumbrae (R.): L. Fyne; Whiting B.; Kilbrennan Sd., &c. (S.).

## Fam. Campylaspidae.

- Campylaspis rubicunda* (*Lillj.*).—U. L. Fyne, 30-40 f.; E. of Arran, 40 f.; E. of Sanda I., 30 f. (S.).  
*C. sulcata*, *G. O. Sars.*—Single specimen off Cumbrae 20 f., 15/8/88 (A. M. N.).  
*C. costata*, *G. O. Sars.*—U. L. Fyne 30-40 f.; Kames B., Bute, 15-20 f. (S.): off Cumbrae, 20 f. (A. M. N.).

## Sub-Order Isopoda.

## ARRANGEMENT AND NOMENCLATURE.

Sars, Prof. G. O., *Crustacea of Norway*, vol. ii.

## AUTHORITIES.

- (R.)=Robertson, Dr. D., F.G.S., F.L.S., "Catalogue of the Amphipoda and Isopoda of the Clyde," Parts i. and ii. (*N. H. Soc. Glas. Trans.*, vol. ii. iii. (N. S.).  
 Stebbing, Rev. T. R. R., *History of the Crustacea*.  
 (A. M. N.)=Norman, Rev. Canon, A.M., D.C.L., F.R.S., "British Isopoda Chelifera" (*Ann. and Mag. N. H.*, Ser. 7, vol. iii., 1899).

(S.)=Scott, Thos., F.L.S., "Notes on some Scottish marine Isopods" (*Ann. Scot. N. H.*, 1898).

## EXPLANATION OF ABBREVIATIONS.

(R. I, 70)=reference to page 70, Part I. of Robertson's Catalogue.  
(R. I, 24, 73, II, 15.)=recorded three times under different or corrected names.  
This formula used both in Isopoda and Amphipoda.

## Fam. Apseudidae.

*Apseudes talpa* (Mont.)—Roots of *Laminaria* Tan, Cumbrae, 7 f. (R. II, 28).

## Fam. Tanaidae.

*Tanais cavolinii*, *M.-Edw.* (*T. vittatus*, *Bate and Westw.*).—Farland Pt., Cumbrae (A. M. N.): amongst barnacles at l. w. E. L. Tarbert (S.): Cumbrae (R. I, 70).

*Paratanais batei*, *G. O. Sars.*—Cumbrae (R. I, 70): L. L. Fyne; Whiting B. (S.).

*Leptognathia longiremis*, (*Lillj.*).—L. Fyne (S.).

*L. rigida*, (*Bate & Westw.*).—Nr. Tan Buoy 7-8 f. (R. I, 70).

*L. breviremis* (*Lillj.*).—Bet. Arran and Ayrshire, 40 f.; Tarbert Bank; L. L. Fyne, 25 f. (S.).

*L. brevimana* (*Lillj.*).—Off Sanda I. 20-30 f.; Ballantrae Bank, 14 f. (S.).

*Tanaopsis laticaudata*, *G. O. Sars.*—Nr. Cumbrae (A. M. N.: R. II, 29): L. Gair (L. Fyne), 2-3 f.; Campbeltown L. 5 f. (S.).

*Pseudotanaeis forcipatus* (*Lillj.*).—Tarbert Bank; L. L. Fyne 25 f. (S.).

## Fam. Gnathiidae.

*Gnathia maxillaris* (Mont.).—Gen. dist.; female more c. than male.

*G. halidaii* (*Sp. Bate*).—Kames B., Cumbrae (R. I, 71).

## Fam. Aegidae.

*Aega tridens*, *Leach.*—Off S. end of Cumbrae; nr. Arran (R. I, 72): Rothesay B. (S.): parasitic on fishes.

[*Ae. rosacea* (*Risso*), (*Ae. bicarinata*, *Leach.*).—L. Fyne 15 f. (R. I, 72).]

## Fam. Cirolanidae.

*Cirolana borealis* (*Lillj.*), (*C. spinipes*, *Bate and Westw.*).—Cumbrae; L. Cumbrae, N. side, 27 f.; mouth of L. Fyne 37 f. (R. I, 73): not r. from d. w.

*C. cranchii*, *Leach.*—Farland Pt., Cumbrae, 14 f. r. (R. I, 72).

*Conilera cylindracea* (Mont.).—Bet. Bute and Cumbrae, 50 f. (R. I, 73): F. of Clyde (A. M. N.).

*Eurydice achata* (*Slabber*), (*E. pulchra*, *Leach.*).—Fairly freq. shall. sandy bays (R. I, 74).

## Fam. Sphaeromidae.

*Sphaeroma serratum* (*Fabr.*).—Taken on Ayr sands (R. I, 81).

*S. curtum*, *Leach.*—Off Portincross, Ayrshire, 6 f. (R. I, 82).

*S. rugicauda*, *Leach.*—Brackish pools; Hunterston (R. I, 82): Inverkip; Langbank, c. (S.).

*S. hookeri*, *Leach.*—Brackish pool, S. side of L. Cumbrae (R. II, 29).

*Dynamene rubra*, *Mont.*—Cumbrae (A. M. N. vide R. I, 82).

*D. viridis*, *Leach.*—Bet. t. m., Portloy, Cumbrae (R. II, 29).

*Naesa bidentata* (*Adams*).—With the last at Portloy (R. I, 84). [Note.—For last three species and *D. montague*, *Leach.*, vide Stebbing, p. 361.]

## Fam. Limnoriidae.

*Limnoria lignorum* (*Rathke*).—C. on woodwork of piers and jetties (R. I, 77).

## Fam. Idotheidae.

- Idothea baltica* (Pallas), (*I. tricuspida*, R.).—C. and gen. dist. (R. I, 79).  
*I. pelagica*, Leach.—Amongst weeds at l. w. Cumbræ (R. I, 79): rocks nr. l. w., E. L. Tarbert (S.).  
*I. emarginata* (Fabr.).—Amongst weeds at l. w., Cumbræ (R. I, 80).  
*I. linearis* (Pennant).—In a sandy pool at l. w., Cumbræ (R. I, 80).  
*Zenobiana prismatica*, Risso, (*Idotea parallela*, R.).—Dredged bet. Tan Buoy and Hawk's Neb, Bute, 50 f. (R. I, 80).  
*Stenosoma acuminata* (Leach), (*Idotea acuminata*, R.).—Nr. l. w., Cumbræ; sandy pools, Kilchattan B. (R. I, 81).

## Fam. Astacillidae.

- Astacilla longicornis* (Sowerby), (*Arcturus longicornis*, R.).—gen. dist. (R. I, 78).  
 [A. *gracilis* (Goodsir).—(R. I, 78), is the male of *A. longicornis* (Sars.).]  
*Arcturella dilatata*, G. O. Sars. (*Leacia dilatata*, R.).—Off Blackwaterfoot, Arran, 20 f. (R. II, 28).

## Fam. Asellidae.

- Asellus aquaticus* (Lin.).—C., in fresh-water ponds, canals, &c. (R. I, 77)

## Fam. Janiridae.

- Janira maculosa*, Leach.—L. w., Portloy, Cumbræ; mouth of L. Fyne 40-60 f.; off Dunoon 13 f. (R. I, 76): E. L. Tarbert; Campbeltown L., &c. (S.).  
*Jaera marina* (Fabr.).—C. in shall. w., and under stones bet. t. m. (R. I, 74).  
 [J. *nordmanni* (Rathke).—(R. I, 75). Sars suggests that the form described by Spence Bate under this name may not be the true Rathkian species but the male of *I. marina*.]

## Fam. Munnidae.

- Munna boeckii*, Kr.—Whiting B. (S.).  
*M. kroyeri*, Goodsir.—Cumbræ, from nests of *Lima hians* (R. I, 76).  
 [M. *Whiteana*, Sp. Bate.—(R. I, 75), is the female of *M. kroyeri* (Sars.).]  
*Paramunna bilobata*, G. O. Sars.—F. of Clyde (A. M. N.): E. L. Tarbert; Kilbrennan Sd., &c. (S.).  
 [Leptaspidia *brevipes* (Sp. Bate).—Off Cumbræ (R. I, 76). Norman suggests this is a *Pleurogonium*.]  
*Pleurogonium rubicundum*, G. O. Sars.—F. of Clyde (A. M. N.). At mouth of estuary 64 f. Dec. 7th, 1899 (F. S. G.).  
*P. inermis*, G. O. Sars.—Off Farland Pt., Cumbræ, 23 f. (R. II, 29): Kilbrennan Sd.; Campbeltown L. (S.).  
*P. spinosissimum*, G. O. Sars.—Off Farland Pt., Cumbræ (R. II, 29).

## Fam. Munnopsidae.

- Eurycope phallangium*, G. O. Sars.—L. Fyne, r., 30-40 f. (S.).

## Fam. Oniscidae.

- Ligia oceanica* (Lin.).—Under stones, &c.; more or less c. in various places. (Note:—This and the following eight species are land Isopods, and may be found under stones, old wood, &c.)

## Fam. Trichoniscidae.

- Trichoniscus pusillus*, Brandt.—Cumbræ (R. I, 86): Rothesay, nr. Aquarium (S.). Prob. not unc. if carefully sought for.  
*T. roseus*, Koch.—E. Tarbert (S.)

## Fam. Oniscidae.

- Oniscus asellus* (Lin.).—Gen. dist. and mod. c.  
*Philoscia muscorum* (Scopoli).—Widely dist. and not very unc. (R. I, 85).  
*Porcellio scaber*, Latr.—C. and gen. dist.  
*P. pictus*, Brandt.—Cumbrae (R.): Ayrshire (Smith): nr. Campbeltown, 1896 (S.).  
*Cylisticus convexus* (De Geer), (*Porcellio armadilloides*, R.).—Kilwinning (Smith, vide R. I, 88): Lanarkshire; Rothesay (S.).  
*Armadillidium vulgare* (Latr.).—Mouth of Garnock (Smith, see R. I, 88).

## Fam. Bopyridae.

- Cryptothir balani* (Sp. Bate).—One taken from a *Balanus*, on shore, E. L. Tarbert, 1886 (S.).  
*Pseudione affinis*, G. O. Sars.—On a *Pandalus montagui* in shrimp trawl nr. Sanda I., 5/97 (F. S. G.).  
*P. hyndmanni* (Bate & Westw.).—L. Fyne, 1886; and Clyde (S.).  
*P. crenulata*, G. O. Sars.—From a small *Munida rugosa* in shrimp trawl, nr. Sanda I., 5/97 (F. S. G.).  
*Pleurocrypta hendersonii*, Giard & Bonnier.—On *Galathea dispersa*. Clyde (Henderson, vide Stebbing).  
*Atheleges paguri* (Rathke).—On *Eupagurus bernhardus*, L. Fyne; E. L. Tarbert.  
*Phryxus abdominalis* (Kr.).—On *Spirontocaris spinus* in shrimp trawl, nr. Sanda I. (F. S. G.).

## Fam. Dajidae.

- Aspidophryxus peltatus*, G. O. Sars.—On backs of *Erythropus* nr. Davaar I., &c.

NOTE.—A recent monograph on the Bopyridae by M. Jules Bonnier gives the following Clyde records. Bonnier often differs from Sars as to what are distinct species.

- Bopyroides sarsi*, Bonnier.—Branchial cavity of a typical *Spirontocaris spinus* (Sowerby), dredged nr. mouth of Clyde estuary (F. S. G., Aug. 30th, 1899). Distinct from *B. hippolytes* (Kr.).  
*Pseudione affinis*, G. O. Sars.—Branchial cavity of *Pandalus leptorhynchus*, Kinahan. Firth of Clyde (Hoyle).  
*P. hoylei* (Giard & Bonnier).—Branchial cavity of *Pandalus montagui*, Leach. Firth of Clyde (Henderson; Hoyle; F. S. G.; Patience). According to Sars *P. hoylei* is identical with *P. affinis*.  
*P. hyndmanni* (Bate & Westwood).—Branchial cavity of *Eupagurus bernhardus* (Lin.). Clyde (Henderson and myself). See remarks by Prof. Sars and M. Bonnier.  
*P. insignis* (Giard & Bonnier) (= *P. crenulata*, G. O. Sars, of my list).—According to M. Bonnier the *Pseudione* of *Munida rugosa* is a different sp. from *P. crenulata*, G. O. Sars, found on *Munida tenuimana*; Sars considers them the same species.  
*P. sp.*—From the branchial cavity of *Pandalina brevirostris* (Rathke). Clyde (Henderson, as *Bopyrus sp.*).  
 (?) *P. sp.*—From the branchial cavity of *Eupagurus prideauxi* (Leach). Clyde (Henderson, as *Bopyrus sp.*).  
*Pleurocrypta hendersoni*, Giard & Bonnier (= *P. marginata*, G. O. Sars. Scott, in 18th Ann. Rept. Fishery Board for Scotland, Pt. III., p. 403). From branchial cavity of *Galathea dispersa*, Bate. F. of Clyde (Henderson; F. S. G.; Patience). According to M. Bonnier the *P. marginata*, G. O. Sars, from Norwegian specimens is different from that on English specimens of the same decapod.

- P. intermedia**, *Giard & Bonnier* (= **P. microbranchiata**, *G. O. Sars*).—Branchial cavity of *Galathea intermedia*, *Lillj.*, F. of Clyde (Henderson, as *Bopyrus sp.*).
- Atheleges paguri** (*Rathke*).—On abdomen of *Eupagurus bernhardus* (*Lin.*). F. of Clyde (Henderson (as *Phryxus paguri*); F. S. G.).
- Phryxus abdominalis** (*Kr.*).—On abdomen of *Spirontocaris spinus* (*Sowerby*), *S. securifrons*, *Norm.*, and *Pandalus montagui*, *Leach*. F. of Clyde (Henderson; F. S. G.; Patience). M. Bonnier doubts whether the *Phryxus* found on these species are identical with *abdominalis*, *Kroyer*, found on *Spirontocaris gaimardi* (*M.-Edw.*). Prof. G. O. Sars, on the other hand, regards them as belonging to that species.
- P. cranchii**, *Giard & Bonnier*.—On abdomen of *Hippolyte cranchii*, *Leach*. F. of Clyde (Henderson as *Phryxus sp.*).

*Sub-Order Amphipoda.*

ARRANGEMENT FOLLOWED.

Prof. G. O. Sars, *Crustacea of Norway*, vol. i.

AUTHORITIES.

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- Norman, Rev. Canon A. M., D.C.L., F.R.S., “A Revision of the British Amphipoda,” *Ann. and Mag. N. H.*
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Fam. Hyperiidæ.

- Hyperia galba** (*Mont.*).—In folds of *Rhizostoma pulmo*, Cumbrae (R. I, 64): E. L. Tarbert (S.). F. of Clyde (A. M. N.).
- Hyperoche tauriformis** (*B. & W.*).—Off Sanda; nr. Ailsa Craig; Kilbrennan Sd.; U. L. Fyne (S.).
- Parathemisto oblivia** (*Kr.*).—Nr. Sanda, in surface net (R. I, 65): off Ailsa Craig (F. S. G.).

Fam. Orchestiidae.

- Talitrus locusta** (*Pallas*).—Sandy shores, abund. (R. I, 10). U. L. Fyne (S.).
- Orchestia littorea** (*Mont.*).—Under stones nr. and above h. w. m., freq. (R. I, 11).
- O. mediterranea**, *Costa*.—Cumbrae; mouth of R. Garnock (R. I, 13): bet. Fairlie and Hunterston (S.). Inveraray (A. M. N.).
- Hyale nilssoni** (*Rathke*).—Kames B., Millport (R. I, 13).
- H. lubbockiana** (*Bate*).—Largs Pier; tide pools Cumbrae (R. I, 13-14): E. L. Tarbert; Fintry B., Bute (S.).

Fam. Lysianassidae.

- Normanion quadrimanus** (*B. & W.*).—Off Farland Pt., Cumbrae (R. II, 12): Nr. Davaar Is., 1898; Tarbert Bank, L. L. Fyne, 1901 (F. S. G.).
- Acidostoma obesum** (*Bate*).—Off Farland Pt., Cumbrae (R. I, 17).
- Lysianax septentrionalis**, *Della Valle*.—Cumbrae; off Skelmorlie Buoy; W. end of L. Cumbrae (R. I, 15-16): E. L. Tarbert; U. L. Fyne (F. S. G.).
- L. ceratinus** *A. O. W.*.—F. of Clyde (A. M. N.).
- L. atlanticus** (*M. Edw.*).—Nr. Tan Buoy, Cumbrae (R. I, 17).
- Socarnes vahli** (*Kr.*).—N. side of Clach Rock, Cumbrae, 6 or 7 f. (R. II, 5).
- S. erythropthalmus**, *Robertson*.—Tan, Cumbrae; Castle-B., L. Cumbrae; Rothesay; Millport B. (R. II, 6).

- Sophrrosyne robertsoni*, *Stebbing and Robertson*—(Clyde R. II, 9): U. L. Fyne (M.).
- Perrierella audouiniana* (*Bate*).—In a sponge, mouth of L. Fyne, 40-60 f. (R. I, 16; II, 7): U. L. Fyne (M.): Tarbert Bank; E. of Sanda, 30 f. (F. S. G.).
- Callisoma hopei*, *A. Costa* [= *Callisoma crenata* (*Bate*)].—L. Fyne, 80 f.; Kilchattan B., 30 f. (R. I, 19). Gen. dist.
- Hippomedon denticulatus* (*Bate*).—Nr. Tan Buoy; Castle-B., L. Cumbrae, &c. (R. I, 18; II, 9). Gen. dist.
- Orchomene humilis* (*A. Costa*) (= *Anonyx edwardsii*, *Bate and Westwood*).—Tan Buoy; L. Striven; L. Goil; L. Fyne (R. I, 17; II, 11); Whiting B. (S.).
- Tryphosa pinguis* (*Boeck*).—Dredged w. of Tan Buoy, 18 f. (R. II, 9).
- T. nana* (*Kr.*).—W. of Tan Buoy, 14 f. (R. II, 10): off Ballantrae, rather r. (F. S. G.).
- T. minuta* (*Kr.*).—Minard, U. L. Fyne (M.).
- Tryphosella sarsi*, *Bonnier*.—Off Farland Pt., Cumbrae, 23 f. (R. II, 11): off Largabruach; off Inveraray, U. L. Fyne (F. S. G.).
- T. horingii*, (*Boeck*).—Cumbrae, on back of a codfish (R. I, 92).
- T. nanoides* (*Lillj.*).—Cumbrae, on back of a codfish (R. I, 92).
- [*T. pusilla*, *G. O. Sars.*—Tan buoy 12 f. (R. II, 12).]
- Tryphosites longipes* (*Bate*).—Off N.E. corner of L. Cumbrae 14 f.; bet. Kilchattan and Cumbrae 66 f. (R. I, 18): Kilbrennan Sd.; E. L. Tarbert, &c. (F. S. G.).
- Hoplonyx cicada* (*Fabr.*).—Bet. the Allans, Cumbrae, 2-4 f. (R. I, 18): Tarbert Bank, L. L. Fyne, 20-25 f.; rather r. (F. S. G.).
- H. similis*, *G. O. Sars.*—Off Farland Pt., Cumbrae (R. II, 12).
- Lepidepecreum carinatum* (*Bate*).—L. Ranza B. 5 f.; S. E. of Bute 10-12 f. (R. I, 91).
- Euonyx chelatus*, *Norman*.—Off Mull of Kintyre 49 f. (R. I, 90): several dredged nr. mouth of estuary, 11/95 (F. S. G.).

## Fam. Pontoporeiidae.

- Bathyporeia pelagica*, *Bate*.—Sandy shores bet. t. m., various places (R. I, 42): Cumbrae (A. M. N.).
- B. norvegica*, *G. O. Sars.*—Cumbrae (A. M. N.).
- B. robertsoni*, *Bate*.—Cumbrae (A. M. N.).
- Haustorius arenarius* (*Slabber*).—Sandy shores nr. l. w. m., mod. c. (R. I, 23): Cumbrae (A. M. N.).
- Urothoe elegans*, *Bate*.—Cumbrae (A. M. N.).
- U. marinus*, *Bate*.—Bet. t. m. Irvine and Fairlie; Lamdash B.; Kames B.; Fintry B.; Balloch B., Cumbrae (R. I, 29-30): Barmore, L. L. Fyne (S.).
- U. brevicornis*, *Bate*.—F. of Clyde (R., vide A. M. N.).
- Argissa hamatipes* (*Norman*).—Kilchattan B., Bute, 8-9 f. (R. II, 12): not unc. in seaward part of estuary.

## Fam. Phoxocephalidae.

- Phoxocephalus holbölli* (*Kr.*).—Dredged bet. the Allans, taken nr. l. w. m. Balloch B., Cumbrae (R. I, 24): Millport B. bet. t. m. (A. M. N.).
- P. fultoni*, *T. Scott.*—Cumbrae, l. w. m. (R.): L. Ryan (Fullerton): F. of Clyde (A. M. N.).
- P. simplex* (*Bate*).—Tan Buoy 6 f. (R. I, 23).
- P. oculatus*, *G. O. Sars.*—(I think R. obtained this sp. in the Clyde).
- Harpinia neglecta*, *G. O. Sars.*—L. Ranza, 6-8 f.; L. Fyne 80 f. (R. I, 24): Clyde, gen. dist. (A. M. N.).
- H. crenulata*, *G. O. Sars.*—Campbeltown L. (S.): off Farland Pt.; Cumbrae (A. M. N.): r.

## Fam. Ampeliscidae.

- Ampelisca typica* (Bate).—R. records this as *A. gaimardii* (Spence Bate) from various places (R. I, 20): Cumbrae (A. M. N.).
- A. tenuicornis*, Lillj.—L. Fyne 80 f.; bet. Tan Buoy and Bute; L. Goil 12 f. (R. I, 21-22): Campbeltown L. (A. M. N.).
- A. assimilis*, Boeck.—Row B., Gareloch, 10-12 f. (R. I, 22): off Sanda (F. S. G.).
- A. brevicornis* (A. Costa).—Off S. shore, Cumbrae; opposite Largs, 15 f.; off Fairlie 20 f.; l. w. Crarae, L. Fyne, &c. (R. I, 21): nr. Ailsa Craig; off Sanda I. (F. S. G.).
- A. macrocephala*, Lillj.—Off Brodick 80 f. (R. I, 22): Cumbrae (A. M. N.).
- A. spinipes*, Boeck.—Off Cumbrae L.H. 60 f.; off Holy I. 36 f.; nr. Skate I. 80-100 f. (R. I, 91): Cumbrae (A. M. N.).
- Haploops tubicola*, Lillj.—Off L. Cumbrae 60 f.; L. Striven 35 f.; off Dunoon 15-25 f.; off Fairlie 6-8 f. (R. I, 22, 92): off Sanda I. (A. M. N.).
- H. setosa*, Boeck.—Off Skate I., L. Fyne, 100 f., two specimens (R. I, 23).

## Fam. Stegocephalidae.

- Stegocephaloides christianiensis* (Boeck).—L. Fyne 40-70 f. (R. II, 20): nr. head of L. Fyne (F. S. G.).

## Fam. Amphilochidae.

- Amphilochus manudens*, Bate.—Off Tan Buoy 7-8 f.; off Cumbrae L.H., 60 f. (R. I, 28).
- A. tenuimanus*, Boeck.—Off Farland Pt., Cumbrae, 17 f. (R. I, 28): Ballantrae Bank (F. S. G.).
- Amphilochoides serratipes* (Norman).—Off Blackwaterfoot 20 f.; off Clach Rock, Cumbrae (R. II, 20-22): off Sanda; at Ballantrae Rk.; off Ailsa Craig (F. S. G.).
- Gitanopsis bispinosa* (Boeck).—Off Blackwaterfoot 20 f. (R. II, 20).
- Gitana sarsii*, Boeck.—Kilchattan B. 5 f. (R. II, 2): Whiting B., Arran; off Sanda I. 20 f. (F. S. G.).
- Cyproidia damnionensis*, Stebbing.—Off Blackwaterfoot; off Farland Pt., Cumbrae (R. II, 21).
- Stegoplax brevirostris* (T. and A. Scott).—Tarbert Bank, L. Fyne, r. (S.).

## Fam. Stenothoidae.

- Stenothoe marina*, Bate.—Cumbrae at l. w.; off Dunoon (R. I, 15): Whiting B.; off Ailsa Craig (F. S. G.).
- S. monoculoides* (Montagu).—Various places about Cumbrae (R. I, 14): F. of Clyde (A. M. N.).

## Fam. Metopidae.

- Metopa alderi* (Bate).—Bet. Cumbrae L. H. and Arran (R. I, 90).
- M. borealis*, G. O. Sars.—Off Farland Pt., Cumbrae, 20 f. (R. II, 21): E. of Arran 30-40 f. (F. S. G.).
- M. rubrovittata*, G. O. Sars.—Off the N. side of L. Cumbrae, 10-15 f. (R. II, 21).
- [*M. affinis*, Boeck.—W. of Tan Buoy; Mull of Kintyre (R. I, 90).]
- M. pusilla*, G. O. Sars.—Off Farland Pt., Cumbrae, 20-24 f. (A. M. N.).
- Metopella nasuta*, (Boeck).—Off Farland Pt., Cumbrae, 19 f. (R. II, 22).

## Fam. Cressidae.

- Cressa dubia*, Bate.—W. of Tan Buoy, 7-8 f. (R. I, 15): Whiting B.; off Sanda I. (F. S. G.): Cumbrae (A. M. N.).

## Fam. Leucothoidae.

- Leucothoë spinicarpa* (*Abilgaard*).—Nr. Tan Buoy, 5 f.; L. Fyne, 92 f. (R. I, 39); Whiting B. (F. S. G.).  
 [*L. incisa*, *Robertson*.—L. w. Balloch B.; Farland Pt., Cumbrae, 20 f. (R. II, 23) (?): L. Gair (L. Fyne) (F. S. G.). Norman considers this only a form of the next species.]  
*L. lilljeborgii*, *Boeck*.—L. Gair; head of U. L. Fyne; r. (F. S. G.).

## Fam. Oediceridae.

- Monoculodes carinatus*, *Bate*.—Several places about Cumbrae (R. I, 25).  
*M. borealis*, *Boeck*.—Off Blackwaterfoot, (R. II, 15).  
*M. tuberculatus*, *Boeck*.—In d. w. E. of Arran, r. (F. S. G.).  
*M. packardi*, *Boeck*.—L. Striven, 40 f. (R. II, 14); L. Fyne, 30-60 f.; E. of Arran, 40 f.; not very r. (F. S. G.).  
*Perioculodes longimanus* (*Bate*).—Gen. dist., not unc. in d. w. (*vide* R. I, 26).  
*Pontocrates altamarinus* (*Bate*).—Callum's Bay, Bute, 16 f. (R. I, 27); U. L. Fyne (S.).  
*P. norvegicus*, *Boeck*.—Shall. w. in sandy bays freq. (R. I, 26).  
*Synchelidium brevicarpum* (*Bate*).—Nr. Cumbrae; L. Fyne; Blackwaterfoot (R. I, 25; II, 16).  
*Halimedes parvimanus* (*Bate*).—Various places (R. I, 24, 93; II, 15): gen. dist.; not r. in d. w.

## Fam. Pleustidae.

- Paramphithoë bicuspis* (*Kr.*).—In surface tow-net after sunset, Cumbrae (R. I, 36).  
*P. monocuspis*, *G. O. Sars*.—Off Sanda I., r. (F. S. G.).  
*P. assimilis*, *G. O. Sars*.—Off Cumbrae, 15-20 f. (R. I, 94).  
*Stenopleustes nodifer*, *G. O. Sars*.—Off N. side of L. Cumbrae, 20 f.; off Fairlie Perch, 20 f. (R. II, 18).

## Fam. Epimeridae.

- Epimeria cornigera* (*Fab.*).—Not unc. in d. w. (R. I, 32). Mouth of estuary, and in d. w. bet. Arran and Ayrshire coast (F. S. G.).

## Fam. Iphimedidae.

- Iphimedia obesa* (*Rathke*).—Gen. dist.; not very r.  
*I. minuta*, *G. O. Sars*.—Off Farland Pt., Cumbrae, 20 f. (R. II, 23).  
*I. elbanae*, *Bate*.—Dredged nr. mouth of estuary (F. S. G.).  
*Odius carinatus* (*Bate*).—Off Garnock Beacon, 5½ f. (R. II, 31).

## Fam. Laphystiidae.

- Laphystius sturionis* (*Kr.*).—Kilbrennan Sd. (R. I, 93): Rothesay B. (S.). Parasitic on Cod, Anglerfish, etc.

## Fam. Syrrhoidae.

- Syrrhoë fimbriatus*, *Stebbing and Robertson*.—Clyde (R. II, 22).  
*Bruzelia typica*, *Boeck*.—W. of Tan Buoy, 12-20 f. (R. II, 22).

## Fam. Eusiridae.

- Eusirus longipes*, *Boeck*.—W. of Tan Buoy, 10 f.; L. Gail, 12 f. (R. I, 38): nr. Sanda I.; head of L. Fyne, etc. (F. S. G.).

## Fam. Calliopiidae.

- Apherusa bispinosa* (*Bate*).—C. in Clyde (R. II, 17): Kilbrennan Sd.; off Ailsa Craig, etc. (F. S. G.).  
*A. jurinii* (*M. Edw.*).—Bet. t. m., Farland Pt., Cumbrae (R. II, 17).

- Calliopius laeviculus* (Kr.).—Mod. c., Kames B., Balloch B., Cumbrae (R. I, 37, 39, 94).  
*C. rathkei* (Zaddoch).—Amongst weedy stones at l. w. Cumbrae (R. I, 38).

## Fam. Atylidae.

- Paratylus swammerdami* (M.-Edw.).—C. and gen. dist.  
*P. vedlomensis* (Bate).—Not unc. in Clyde (R. I, 36).  
*P. uncinatus*, G. O. Sars.—Kilbrennan Sd., 4/96 (F. S. G.)

## Fam. Dexaminidae.

- Dexamine spinosa* (Mont.).—Mod. c. all round our shores (R. I, 32).  
*D. thea*, Boeck.—Portloy, Cumbrae; Clach Rock, and off Hunterstone, opposite Millport (R. I, 33, 34): head of L. Fyne (F. S. G.).  
*Tritaeta gibbosa* (Bate).—Freq., by dip-net among seaweed, &c. (R. I, 34): nr. Davaar I. (F. S. G.).  
*Guerneia coalita* (Norm.).—Taken twice off Millport (R. II, 24): gen. dist. esp. in d. w., scarce (F. S. G.).

## Fam. Melphidippidae, Stebbing (1899).

- Melphidippa goesi*, Stebbing.—On N. side of L. Cumbrae 20 f. (R. II, 19).  
*Melphidippella macera* (Norm.).—N. side of L. Cumbrae (R. II, 19): Kilbrennan Sd.; off Ailsa Craig (F. S. G.).

## Fam. Gammaridae.

- Amathilla homari* (Fabr.).—In surface-net after sunset, Cumbrae, and Sanda B. (R. I, 41, 92): Bet. t. ms., E. L. Tarbert (S.).  
*Gammarus marinus*, Leach.—C. under stones bet. t. ms., and in tidal pools (R. I, 50).  
*G. locusta* (Lin.).—Bet. t. ms., and dredged nr. Cumbrae, 6-35 f. (R. I, 50, 94). Gen. dist.  
*G. duebeni* (Lillj.).—Fresh water lochs nr. Campbeltown (S.).  
*G. pulex* (de Geer).—C. in slow streams and ditches (R. I, 52).  
*Melita palmata* (Mont.).—Clyde (A. M. N.) 1889.  
*M. obtusata* (Mont.).—C. and gen. dist. (R. I, 47, 48).  
*M. gladiosa*, Bate.—Taken bet. the Allans, Cumbrae, 4-5 f. (R. II, 18).  
*Eriopisa elongata* (Bruzel).—Taken in Clyde by Norman (R. II, 25).  
*Maera othonis* (M.-Edw.).—In various parts of Clyde and L. Fyne (R. II, 53): nr. Davaar I. (F. S. G.).  
*M. semiserrata* (Bate).—Dredged twice at Tan Buoy (R. I, 52).  
*M. loveni* (Bruzel).—Off L.H., L. Cumbrae, 55-60 f.; off Arran, 80 f. (R. I, 52).  
*Gammarella brevicaudata*, (M.-Edw.).—Off Hunterstone (R. I, 47; II, 24).  
*Megaluropus agilis*, Norm.—Garrison B., and Kames B., nr. Millport (R. II, 25): nr. Sanda I, 5/9/99 (F. S. G.).  
*Cheirocratus sundewalli* (Rathke).—Various places (R. I, 45, 46): nr. Largabruach, U. L. Fyne; Tarbert Bank (F. S. G.).  
*C. intermedius*, G. O. Sars.—E. L. Tarbert (S., 1886): L. Gair, (L. Fyne); Tarbert Bank, 17-20 f. (F. S. G.).  
*C. assimilis*, (Lillj.).—L. L. Fyne, 104 f.; off Farland Pt., Cumbrae, 20 f. (R. II, 18): Tarbert Bank, 20-25 f. (F. S. G.).

## Fam. Lilljeborgiidae.

- Lilljeborgia pallida*, Bate.—Off Farland Pt., Cumbrae, 20 f. (R. II, 23).  
*L. kinahani* (Bate).—Nr. Tan Buoy, 7 f. (R. I, 46): Tarbert Bank, 20 f. (F. S. G.).

## Fam. Aoridae.

- [*Phaedra antiqua* (Bate).—In surface-net off the Allans, Millport B., after sunset (R. I, 94).]

