

Harpacticoid copepods from the Sussex coast (eastern English Channel): records 1992-1997

DAVID VENTHAM FLS



Brighton & Hove City Council
Royal Pavilion & Museums Brighton
Booth Museum of Natural History

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© DAVID VENTHAM
48 Arundel Street, Brighton, East Sussex BN2 5TH, UK
davidventham@btinternet.com
&
The Booth Museum of Natural History
194 Dyke Road, Brighton, BN1 5AA, UK
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Title page photo of *Harpacticus chelifera* (O. F. Müller, 1776) by Dr Gerald Legg

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INTRODUCTION

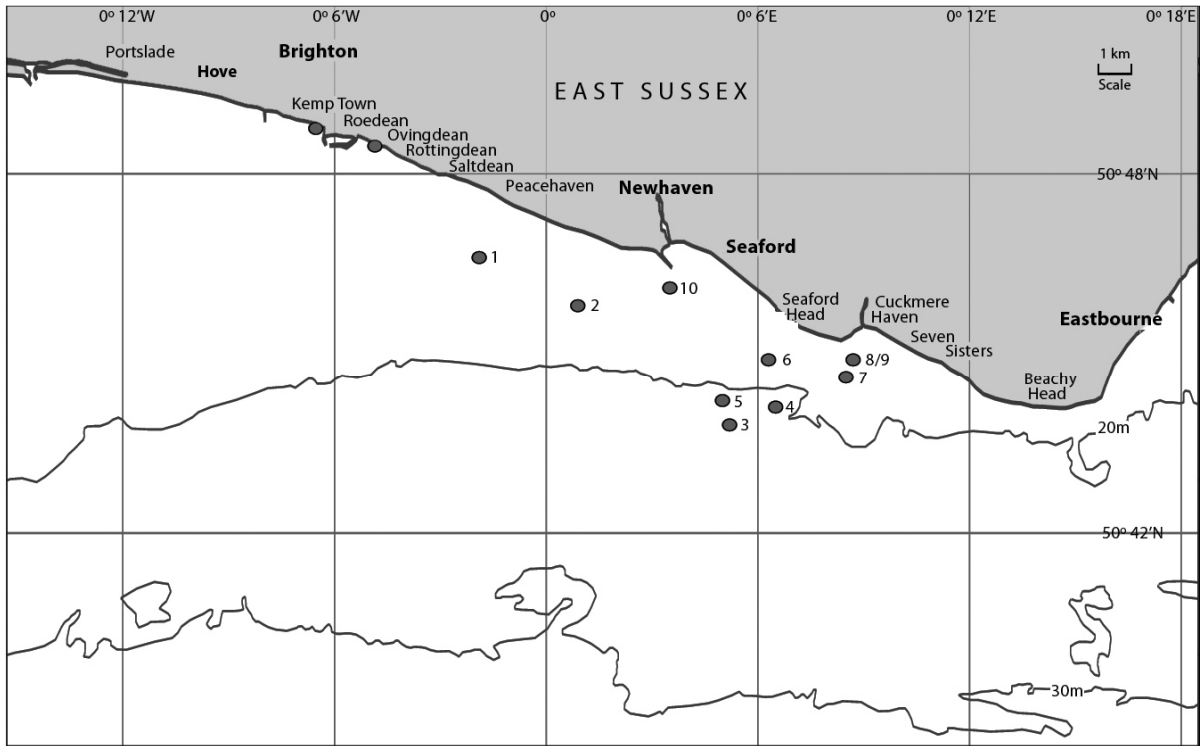
Apart from 54 species recorded from the Brighton intertidal 1983-1985 (Ventham, 1990, pp. 83-128), the harpacticoid fauna of Sussex has not been investigated, and to augment these limited records, qualitative habitat sampling (biological and sedimentary) was undertaken during the period 1992-1997 as follows:

- Intertidal, Brighton, January- December 1992 and April-November 1993.
- Sublittoral (dredged), Peacehaven to Cuckmere Haven, 4.7.1993.
- Sublittoral (diver-collected), Selsey Bill to SSW of Hastings: May-October 1994; March, May-July, September, October 1995; July, September 1997.
- Widewater Lagoon, Shoreham, 20.9.1997.

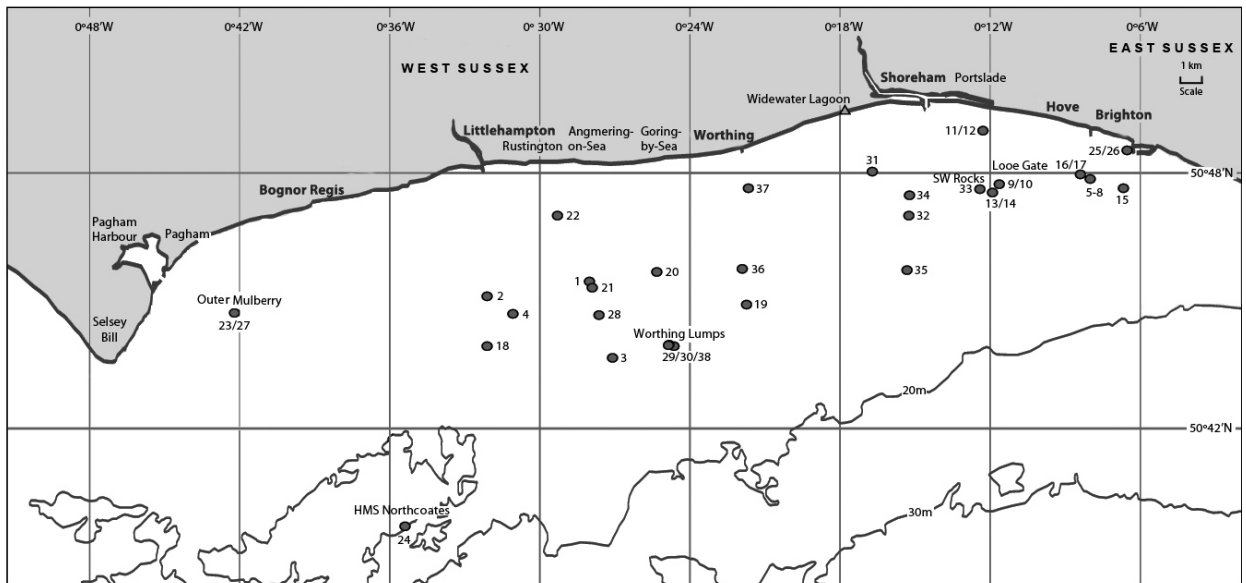
273 species were found amongst these samples of which only 183 have been identified to species level (15 provisionally). A significant number of the unidentified species (summarized pp. 101-2) are believed to be undescribed.



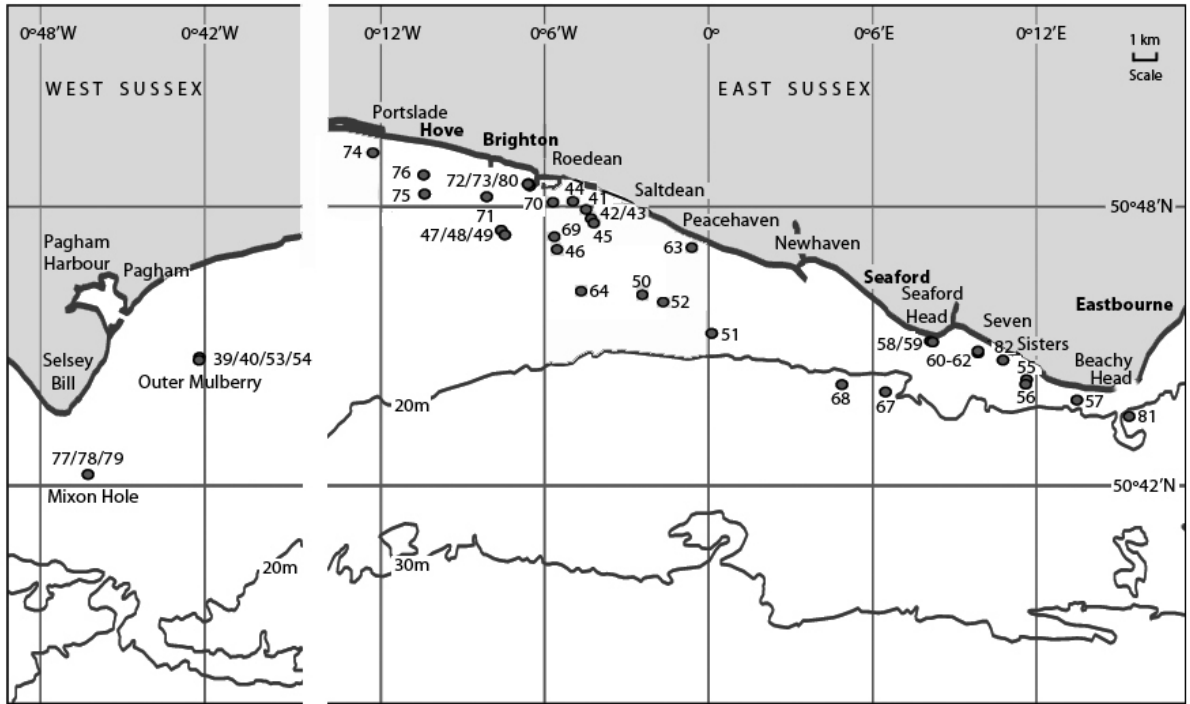
MAP 1. Location of the Sussex Coast.



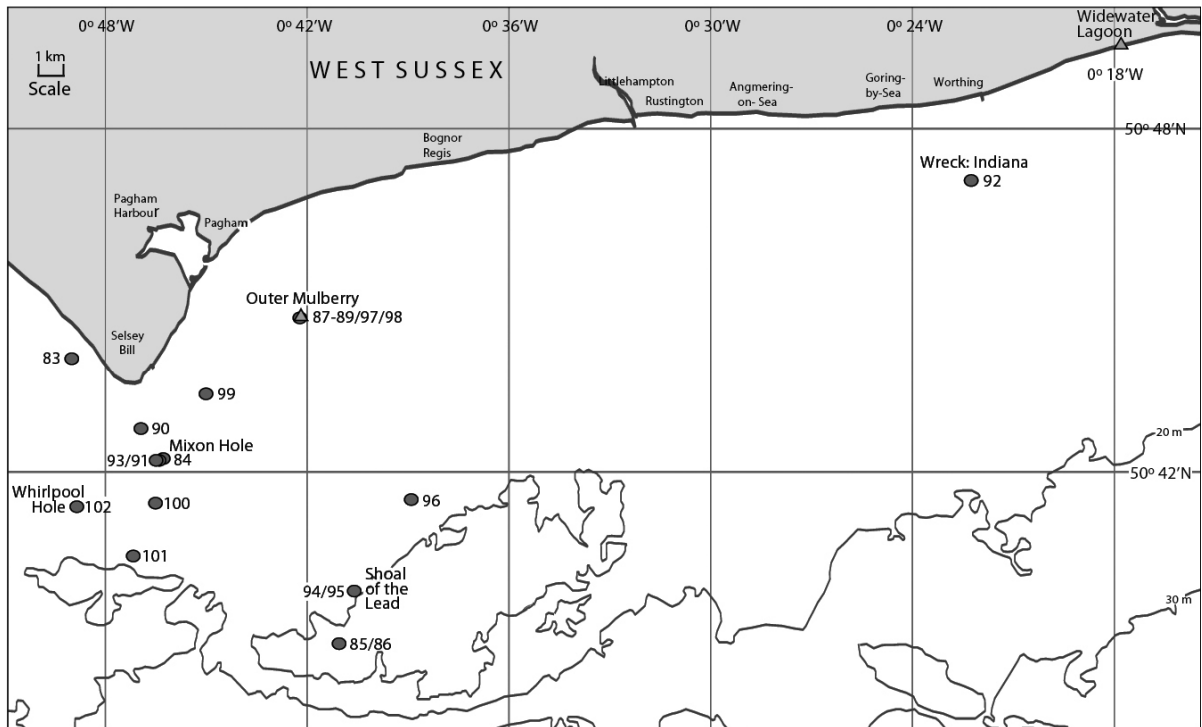
MAP 2. Location of Brighton intertidal sites at Roedean and Kemp Town, 1992-1993, and dredge hauls 1-10, Peacehaven to Cuckmere Haven, 4.7.1993.



MAP 3. Location of diver-collected samples: BS1-38, 1994.



MAP 4. Location of diver-collected samples: BS39-82, 1995 (excluding BS65 SSW of Hastings and BS66 E of Eastbourne).



MAP 5. Location of diver-collected samples: BS83-102, 1997.

MATERIALS AND METHODS

Collection

Biological habitat samples (algae, hydroids, erect bryozoans, heterogeneous material) and sediments were collected into jars (Brighton intertidal) and polythene bags (sublittoral and Widewater Lagoon), and as soon as possible after collection, formalin added to about 5% of the combined volume of sample and ambient water, with the exception of the 1992 intertidal samples which were refrigerated before adding formalin. All biological samples included basal attachment structures.

Extraction

Samples were stirred in buckets of tap water, allowed briefly to settle, and the water with suspended copepods (and other mobile animals) decanted through a series of nested Endecotts sieves of 600 μm , 180 μm and 90 μm mesh. The process was repeated three times to maximize extraction.

Sorting

Specimens were sorted under a stereo microscope using transmitted and incident illumination with magnifications up to $\times 60$, and identified under a compound microscope using objectives up to $\times 40$ (phase contrast for dissected specimens). Progressive familiarization with the commoner and more striking species enabled identification and counting under the stereo without recourse to the compound microscope.

Preservation

Specimens were preserved in a mixture of buffered formalin, ethylene glycol and sea water in the proportion 1:1:18 respectively (recommended by Dr Richard Hamond, pers. comm.).

Habitat sample assessment

Biological samples were weighed damp on completion of extraction procedures (which included simultaneous removal of entrapped detrital/inorganic sediment) and after pressing between absorbent cloth; the material was identified to species level wherever possible. Volumes of sediments were measured prior to extraction.

COLLECTION SITES AND DESCRIPTIONS OF HABITAT SAMPLES

INTERTIDAL, BRIGHTON (Map 2)

Brighton tidal data

Predicted heights of tides 1992-1993 (Admiralty, 1991 & 1992) expressed in metres above Chart Datum (ACD): MHWS 6.5, MHWN 5.1, MTL 3.5, MLWN 1.9, MLWS 0.6. LWS tides occurred early morning and early evening.

Roedean, E of Brighton Marina

Approximate centre of site 50°48.46'N 00°04.85'W (TQ 352 028).

A selected 400 m stretch of chalk wave-abrasion platform overlain by a groyned flint shingle beach (interspersed with cobble/gravel/sand) down to a little below MTL. The exposed platform extended c. 120 m downshore from the beach to around ELWS at which level it was variably smothered by sand (predominantly fine), sand/silty sand dominating large areas of the seabed off Brighton. Channels, pools and depressions were littered with stones and, especially below c. 1.3 m ACD, often sandy, most of the sand scoured away overwinter as was the detrital sandy sediment which commonly coated much of the bedrock surface.

Horizontal belts of algae on the chalk platform varied from vague to fairly well defined with average vertical distributions as follows:

Fucus vesiculosus, a patchy belt extending c. 25 m downshore from the vicinity of the beach, c. 3.4-2.3 m ACD.

Fucus serratus, the dominant belt, c. 65 m wide, c. 2.3-1.3 m ACD.

Rhodophyta, co-dominated by *Polysiphonia fucooides* and sand-binding *Rhodothamniella floridula*, in a belt c. 25 m wide, c. 1.3-0.7 m ACD, which merged with patchily distributed *Laminaria saccharina* (chiefly) and *Laminaria digitata* c. 0.7 m ACD downwards.

Samples for harpacticoid extraction, with the exception of wet rock scrapings (small algal/hydroid growths with detrital sandy sediment) from the *F. vesiculosus* belt, 2.1.1992, comprised algae from rock pools and from substrate submerged at low water:

Perennial *Polysiphonia fucooides* (usually supporting epiphytic *Ceramium* sp.) from the *F. serratus*, Rhodophyta and *Laminaria* belts, 2.3-0.4 m ACD, January-December 1992 and April-November 1993 (14-53 g per sample).

Ephemeral Ectocarpales indet. from the *F. serratus* and Rhodophyta belts, 2.3-0.8 m ACD, May-August 1992 (3-17 g per sample), and *Cladophora* sp. from the Rhodophyta belt, 0.8-0.7 m ACD, July 1992 (5-10 g per sample).

Kemp Town, W of Brighton Marina

Approximate centre of site 50°48.75'N 00°06.53'W (TQ 333 032).

A localized stretch of chalk wave-abrasion platform overlain by a groyned predominantly shingle beach down to c. 1.3 m ACD, the exposed platform extending c. 400 m westwards from the marina west breakwater root before dipping beneath fine sand. With an average width towards the marina of c. 40-50 m between the lower boundary of the beach at c. 1.3 m ACD and overlying fine sand downshore at c. 0.8-0.6 m ACD, it was dominated by an extensive mussel bed (*Mytilus edulis*) supporting *Palmaria palmata*, with a fringe of *Laminaria saccharina* (much reduced overwinter) at c. 1.0 m ACD and below.

Samples were collected on two days only:

Barnacles, *c.* 20-30 adults per sample, from concrete verticals (west face of marina west breakwater root and nearby groyne), 5.1-2.3 m ACD, 10.1.1992, to confirm continued presence of *Heterolaophonte brevipes* Roe first discovered associated with barnacles at the same location 1983-1985 (Ventham, 1990).

Saturated fine clean sand, *c.* 300 ml per sample, scooped from the surface at low water, 0.7-0.6 m ACD, 19.8.1993.

SUBLITTORAL, PEACEHAVEN TO CUCKMERE HAVEN (DREDGED) (Map 2)

Subsamples from dredged material, *c.* 12-23 m below Chart Datum (**BCD**), collected aboard 'Aquamanda' by kind invitation of Dr Jan Light (Conchological Society of Great Britain & Ireland), 4.7.1993:

Haul 1

Shell gravel (with a little fine sediment), 12 m BCD, off Peacehaven (near end of Portobello sewer), 50°46.6'N 00°01.9'W (500 ml).

Haul 2

Hydroids/erect bryozoans scraped from cobbles, 15 m BCD, off Peacehaven, 50°45.8'N 00°00.9'E.

Haul 3

Shell gravel (with a little shingle), 23 m BCD, off Seaford, 50°43.8'N 00°05.2'E (500 ml).

Haul 4

Empty bag, 21 m BCD, off Seaford Head, 50°44.1'N 00°06.5'E.

Haul 5

Shell gravel, 21 m BCD, off Seaford, 50°44.2'N 00°05.0'E (300 ml).

Haul 6

Silt, 17 m BCD, off Seaford Head, 50°44.9'N 00°06.3'E (1000 ml).

Haul 7

Small hydroids scraped from stones, 16 m BCD, off Hope Point (E of Seaford Head), 50°44.6'N 00°08.5'E.

Haul 8

Shell gravel (with finer sediment), 13 m BCD, Cuckmere Haven (between Seaford Head and the Seven Sisters), 50°44.9'N 00°08.7'E (750 ml).

Haul 9

Black muddy silt with a coarse shell fraction (as if dredge had passed over two types of ground), 13 m BCD, Cuckmere Haven, 50°44.8'N 00°08.8'E (2000 ml).

Haul 10

Muddy shell gravel, 12 m BCD, off Newhaven, 50°46.1'N 00°03.5'E (750 ml).

SUBLITTORAL, SELSEY BILL TO SSW OF HASTINGS (DIVER-COLLECTED)

A wide range of samples (including algae (predominantly red), hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf, stones with attached/encrusting growths, sediments and heterogeneous material), 0.7-26.8 m below Chart Datum (BCD): May-October 1994 (Benthic sample (BS) 1-38); March, May-July, September, October 1995 (BS39-82); July, September 1997 (BS83-102).

All samples were collected by divers involved in the 'Sussex Seasearch' project which was part of an ongoing national survey of sublittoral marine habitats and their communities, run by the Marine Conservation Society on behalf of the Joint Nature Conservation Committee, and coordinated by Robert Irving. Algae, hydroids and bryozoans were identified for the project.

In the following list, BS Nos. are accompanied by their corresponding Sussex Seasearch Dive Nos. (= Field Site Nos.) and Database Survey Nos. in parentheses – this enables reference to descriptions of the seabed habitats and communities from which the samples were taken (Irving, 1999):

1994 (BS1-38) (Map 3)

BS1 (94/09) (713/09)

A mixed sample (*Phyllophora pseudoceranoides* (mainly) and small hydroid growths), 7.3 m BCD, 5 km S of Angmering-on-Sea, 50°45.45'N 00°28.02'W, 14.5.1994 (7.3 g).

BS2 (94/14) (713/14)

A mixed sample of red algae (including *Phyllophora pseudoceranoides* (supporting epiphytic *Plocamium cartilagineum*) and *Spyridia filamentosa*) and the hydroid *Sertularia argentea*, 8.9 m BCD, 5 km S of Littlehampton, 50°45.10'N 00°32.10'W, 14.5.1994 (7.5 g).

BS3 (94/25) (713/25)

A mixed sample of red algae (including *Phyllophora pseudoceranoides*, *Halurus equisetifolius*, *Spyridia filamentosa*) and the bryozoan *Flustra foliacea*, 10.2 m BCD, Kingmere Rocks (SSE of Littlehampton, c. 8 km offshore), 50°43.66'N 00°27.09'W, 15.5.1994 (32.1 g).

BS4 (94/26) (713/26)

Flustra foliacea, 11.3 m BCD, 6 km S of Rustington, 50°44.69'N 00°31.08'W, 15.5.1994 (28.7 g).

BS5 (94/65) (713/65)

Silty gravel (flint with a few *Crepidula* shells and shell fragments), 8.9-10.4 m BCD, the Outer Manors (c. 2 km S of Brighton, just E of the Palace (Brighton) Pier), 50°47.86'N 00°08.00'W, 18.6.1994 (500 ml).

BS6 (94/65) (713/65)

Silt, 8.9-10.4 m BCD, the Outer Manors (c. 2 km S of Brighton, just E of the Palace (Brighton) Pier), 50°47.86'N 00°08.00'W, 18.6.1994 (1300 ml).

BS7 (94/65) (713/65)

Silt, 8.9-10.4 m BCD, the Outer Manors (c. 2 km S of Brighton, just E of the Palace (Brighton) Pier), 50°47.86'N 00°08.00'W, 18.6.1994 (600 ml).

BS8 (94/65) (713/65)

A heterogeneous sample comprised of silt and the hydroid *Obelia longissima*, 8.9-10.4 m BCD, the Outer Manors (c. 2 km S of Brighton, just E of the Palace (Brighton) Pier), 50°47.86'N 00°08.00'W, 18.6.1994 (silt 400 ml, hydroid 6.0 g).

BS9 (94/35) (713/35)

Phyllophora crispa (the lower parts heavily encrusted with *Electra pilosa* and supporting densely packed *Mytilus edulis* (5-15 mm long)), 6.1-7.4 m BCD, Looe Gate (4 km SSW of Hove), 50°47.74'N 00°11.63'W, 2.7.1994 (65.0 g excluding *Mytilus*).

BS10 (94/35) (713/35)

Phyllophora crispa (supporting epiphytic *Plocamium cartilagineum* and other algae, and the lower parts heavily encrusted with *Electra pilosa* and supporting densely packed *Mytilus edulis* (5-15 mm long)), 6.1-7.4 m BCD, Looe Gate (4 km SSW of Hove), 50°47.74'N 00°11.63'W, 2.7.1994 (68.0 g excluding *Mytilus*).

BS11 (94/41) (713/41)

Mixed algae (including *Calliblepharis ciliata* and filamentous rhodophytes), 3.2-4.0 m BCD, S of Jenny Ground (S of Portslade), 50°49.00'N 00°12.28'W, 2.7.1994 (40.5 g).

BS12 (94/41) (713/41)

Silty mixed algae (including *Calliblepharis ciliata* and *Plocamium cartilagineum*), 3.2-4.0 m BCD, S of Jenny Ground (S of Portslade), 50°49.00'N 00°12.28'W, 2.7.1994 (38.5 g).

BS13 (94/48) (713/48)

Hydrallmania falcata (a rather silty sample), 8.6-9.7 m BCD, SW of Looe Gate (c. 4 km SSW of Hove), 50°47.54'N 00°11.91'W, 3.7.1994 (4.9 g).

BS14 (94/48) (713/48)

Halecium halecinum (a rather silty sample), 8.6-9.7 m BCD, SW of Looe Gate (c. 4 km SSW of Hove), 50°47.54'N 00°11.91'W, 3.7.1994 (3.5 g).

BS15 (94/56) (713/56)

Nemertesia antennina (silt-laden basally), 9.9-11.6 m BCD, Marina Reef, also known as Measor's Rocks (c. 1.5 km SSW of the entrance to Brighton Marina), 50°47.64'N 00°06.66'W, 3.7.1994 (23.8 g).

BS16 (94/60) (713/60)

Mixed sediment (shell gravel/sand/silt), 8.1-9.6 m BCD, Palace (Brighton) Pier Reef (1.5-2 km S of the Pier), 50°47.97'N 00°08.39'W, 17.7.1994 (125 ml).

BS17 (94/60) (713/60)

Mixed sediment (shell gravel/sand/silt), 8.1-9.6 m BCD, Palace (Brighton) Pier Reef (1.5-2 km S of the Pier), 50°47.97'N 00°08.39'W, 17.7.1994 (500 ml).

BS18 (94/73) (713/73)

A mixed sample of *Phyllophora pseudoceranooides* (5.7 g) and *Flustra foliacea* (19.3 g), 8.8-10.8 m BCD, Spanner Reef (7.5 km S of Littlehampton), 50°43.94'N 00°32.10'W, 30.7.1994 (25.0 g).

BS19 (94/78) (713/78)

A silty sample of algae (*Calliblepharis ciliata*, *Brongniartella byssoides*) attached to flint pebbles, 10.0 m BCD, 7 km S of Worthing, 50°44.91'N 00°21.74'W, 30.7.1994 (algae 16.3 g).

BS20 (94/80) (713/80)

Algae (predominantly *Brongniartella byssoides*) attached to flint pebbles, 9.6 m BCD, 5 km S of Goring-by-Sea, 50°45.68'N 00°25.32'W, 30.7.1994 (algae 5.8 g).

BS21 (94/82) (713/82)

Calliblepharis ciliata/filamentous rhodophytes, 7.2 m BCD, 5km S of Angmering-on-Sea, 50°45.31'N 00°27.91'W, 30.7.1994 (38.8 g).

BS22 (94/84) (713/84)

Mixed algae co-dominated by *Plocamium cartilagineum* and *Ceramium* sp., 2.4 m BCD, 2 km SSW of Angmering-on-Sea, 50°47.00'N 00°29.30'W, 30.7.1994 (56.1 g).

BS23 (94/-) (713/-)

Mixed algae (including *Heterosiphonia plumosa* and *Brongniartella byssoides*), 4.5 m BCD, Outer Mulberry (4 km SE of Pagham village), 50°44.71'N 00°42.21'W, 31.7.1994 (85.9 g).

BS24 (94/121) (713/121)

Tubularia indivisa (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates' (14 km S of Bognor Regis), 50°39.71'N 00°35.39'W, 13.8.1994 (56.0 g).

BS25 (94/141) (713/141)

Silty algae (predominantly *Ceramium* sp.), 4.2-4.7 m BCD, western vicinity of Brighton Marina, 50°48.53'N 00°06.53'W, 14.8.1994 (63.6 g).

BS26 (94/141) (713/141)

A mixed sample of *Nemertesia antennina* and erect bryozoans (mainly *Flustra foliacea* and *Chartella papyracea*), 4.2-4.7 m BCD, western vicinity of Brighton Marina, 50°48.53'N 00°06.53'W, 14.8.1994 (12.5 g).

BS27 (94/122) (713/122)

Silt-smothered algal/bryozoan turf and encrusting growths, 5.0 m BCD, Outer Mulberry (4 km SE of Pagham village), 50°44.71'N 00°42.21'W, 21.8.1994 (silt + turf 150 ml, turf 5-10 g).

BS28 (94/133) (713/133)

Mixed algae co-dominated by *Spyridia filamentosa* and *Rhodomela confervoides*, 8.7-9.7 m BCD, N of Kingmere Rocks (SSE of Littlehampton, c. 6 km offshore), 50°44.66'N 00°27.64'W, 3.9.1994 (5.7 g).

BS29 (94/136) (713/136)

Mixed material (including red algae and *Tubularia indivisa* with its stems heavily encrusted with *Lichenopora radiata*), 6.7-11.4 m BCD, Worthing Lumps (8 km SSW of Worthing), 50°43.94'N 00°24.64'W, 3.9.1994 (21.0 g). (+ 7.7 g rock substrate).

BS30 (94/138) (713/138)

Mixed material (including red algae, *Tubularia indivisa*, *Lichenopora radiata*, *Flustra foliacea*), 8.0-11.6 m BCD, Worthing Lumps (8 km SSW of Worthing), 50°43.97'N 00°24.84'W, 3.9.1994 (36.3 g). (+ pebble-sized piece of ?bedrock).

BS31 (94/152) (713/152)

Silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 50°48.03'N 00°16.71'W, 4.9.1994 (66.0 g). (+ several live *Crepidula*, a pebble and a little gravel).

BS32 (94/145) (713/145)

Small algal/hydroid growths on a pebble, 10.4 m BCD, 5 km S of Shoreham, 50°47.00'N 00°15.25'W, 4.9.1994 (growths 2.8 g).

BS33 (94/163) (713/163)

Heterosiphonia plumosa, 6.7 m BCD, South-West Rocks (4.5 km SW of Hove), 50°47.62'N 00°12.41'W, 1.10.1994 (38.5 g).

BS34 (94/166) (713/166)

Obelia longissima, 8.5 m BCD, 4 km S of Shoreham, 50°47.48'N 00°15.22'W, 1.10.1994 (11.9 g).

BS35 (94/165) (713/165)

Mixed hydroids (including *Hydrallmania falcata* and *Sertularia* sp.), 12.7 m BCD, 7 km S of Shoreham, 50°45.72'N 00°15.32'W, 1.10.1994 (14.9 g).

BS36 (94/194) (713/194)

Gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks (c. 5 km S of Worthing), 50°45.75'N 00°21.90'W, 2.10.1994 (670 ml).

BS37 (94/196) (713/196)

Mixed algae (including *Calliblepharis ciliata* (supporting dense epiphytic *Ceramium* sp.), *Plocamium cartilagineum*, *Cladostephus spongiosus*), 3.4 m BCD, W of Grass Banks (c. 2 km S of Worthing sea front), 50°47.64'N 00°21.65'W, 2.10.1994 (49.2 g).

BS38 (94/199) (713/199)

Mixed algae co-dominated by *Calliblepharis ciliata* and *Phyllophora pseudoceranoides*, 8.0 m BCD, western end of Worthing Lumps (8 km SSW of Worthing sea front), 50°43.96'N 00°24.85'W, 15.10.1994 (139.6 g).

1995 (BS39-82) (Map 4)

BS39 (95/-) (714/-)

Halidrys siliquosa (supporting small localized growths of *Plocamium cartilagineum*, *Aglaophenia pluma*, *Crisia aculeata*, *Amathia lendigera*), 7.1 m BCD, Outer Mulberry (4 km SE of Pagham village), 50°44.75'N 00°42.20'W, 25.3.1995 (71.3 g).

BS40 (95/-) (714/-)

Gravel (mixed flint and shell), 7.8 m BCD, Outer Mulberry (4 km SE of Pagham village), 50°44.75'N 00°42.20'W, 25.3.1995 (200 ml).

BS41 (95/04) (714/04)

Mixed algae (including *Calliblepharis ciliata* (dominant) and *Plocamium cartilagineum*), 4.1 m BCD, 1.5 km SSE of Roedean School, Brighton, 50°47.95'N 00°04.48'W, 6.5.1995 (43.4 g).

BS42 (95/07) (714/07)

Obelia longissima, 8.2 m BCD, 2 km SSE of Roedean School, Brighton, 50°47.74'N 00°04.31'W, 6.5.1995 (1.8 g).

BS43 (95/07) (714/07)

Fine sand, 8.2 m BCD, 2 km SSE of Roedean School, Brighton, 50°47.74'N 00°04.31'W, 6.5.1995 (1000 ml).

BS44 (95/02) (714/02)

Fine sand, 3.3 m BCD, 1.5 km SSE of Roedean School, Brighton, 50°48.12'N 00°04.97'W, 6.5.1995 (250 ml).

BS45 (95/05) (714/05)

Fine sand, 6.5 m BCD, 2 km SSE of Roedean School, Brighton, 50°47.66'N 00°04.19'W, 6.5.1995 (500 ml).

BS46 (95/14) (714/14)

Fine sand, 10.9 m BCD, 2.5 km SSE of Brighton Marina, 50°47.37'N 00°05.65'W, 6.5.1995 (190 ml).

BS47 (95/12) (714/12)

Fine sand, 10.5 m BCD, SE of Palace (Brighton) Pier Reef (c. 3 km S of Brighton), 50°47.49'N 00°07.60'W, 6.5.1995 (155 ml).

BS48 (95/13) (714/13)

Fine sand, 9.0 m BCD, SE of Palace (Brighton) Pier Reef (c. 3 km S of Brighton), 50°47.40'N 00°07.46'W, 6.5.1995 (500 ml).

BS49 (95/13) (714/13)

Echinocardium cordatum (a collection of empty tests, recently dead and moribund individuals from the surface of fine sand, their demise possibly the result of deoxygenation brought about through the decay of a phytoplankton bloom, primarily *Phaeocystis* sp.), 9.0 m BCD, SE of Palace (Brighton) Pier Reef (c. 3 km S of Brighton), 50°47.40'N 00°07.46'W, 6.5.1995.

BS50 (95/27) (714/27)

Fine sand (with c. 2-3% silt/fine detritus), 14.4 m BCD, 4 km S of Saltdean, 50°46.11'N 00°02.42'W, 7.5.1995 (600 ml).

BS51 (95/23) (714/23)

Medium/coarse sand, 16.9 m BCD, 4 km S of Peacehaven, 50°45.28'N 00°00.12'E, 7.5.1995 (800 ml).

BS52 (95/26) (714/26)

Medium sand, 14.8 m BCD, 3.5 km S of Saltdean, 50°45.96'N 00°01.66'W, 7.5.1995 (333 ml).

BS53 (95/-) (714/-)

Mixed algae (including *Calliblepharis ciliata*, *Phyllophora pseudoceranooides*, *Heterosiphonia plumosa*), 5.0 m BCD, Outer Mulberry (4 km SE of Pagham village), 50°44.71'N 00°42.21'W, 21.5.1995 (96.3 g).

BS54 (95/-) (714/-)

Silt-smothered algal (mainly)/bryozoan turf and encrusting growths, 6.0 m BCD, Outer Mulberry (4 km SE of Pagham village), 50°44.71'N 00°42.21'W, 21.5.1995 (silt + turf 80 ml, turf 5-10 g).

BS55 (95/28) (714/28)

Silty hydroids (mainly *Nemertesia antennina*), 6.5 m BCD, SW of Birling Gap (between the Seven Sisters and Beachy Head), 50°44.28'N 00°11.63'E, 24.6.1995 (25.2 g).

BS56 (95/29) (714/29)

Tubularia indivisa, 3.8 m BCD, SW of Birling Gap (between the Seven Sisters and Beachy Head), 50°44.19'N 00°11.60'E, 24.6.1995 (6.4 g).

BS57 (95/31) (714/31)

Fine sand, 6.2 m BCD, E of Belle Tout, Beachy Head, 50°43.84'N 00°13.48'E, 24.6.1995 (1300 ml).

BS58 (95/41) (714/41)

Algae (mainly *Plocamium cartilagineum*), 0.9 m BCD, Seaford Head Gullies, 50°45.12'N 00°08.12'E, 25.6.1995 (81.1 g).

BS59 (95/40) (714/40)

Nemertesia antennina, 6.4 m BCD, Seaford Head Gullies, 50°45.10'N 00°08.20'E, 25.6.1995 (7.3 g).

BS60 (95/42) (714/42)

Silt-laden *Nemertesia antennina* (+ two *Pagurus bernhardus* in *Buccinum undatum* shells), 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 50°44.86'N 00°09.87'E, 25.6.1995 (*Nemertesia* 70.0 g).

BS61 (95/42) (714/42)

Silt-laden hydroid (dominant)/bryozoan turf on a flint cobble, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 50°44.86'N 00°09.87'E, 25.6.1995 (cobble c. 23 x 9 x 9 cm).

BS62 (95/43) (714/43)

Nemertesia antennina, 4.0 m BCD, E of Cuckmere Haven, off the Seven Sisters, 50°44.89'N 00°09.87'E, 25.6.1995 (7.0 g).

BS63 (95/48) (714/48)

Algae with entrapped silty sand (*Gracilaria* sp. and *Plocamium cartilagineum* co-dominant), 2.2 m BCD, S of Peacehaven, 50°47.14'N 00°00.62'W, 22.7.1995 (156.2 g).

BS64 (95/45) (714/45)

Fine sand (with a few small bivalve shells and c. 4-5% shell fragments), 11.2 m BCD, 5 km SSE of Brighton Marina, 50°46.19'N 00°04.66'W, 22.7.1995 (1100 ml).

BS65 (95/53) (714/53)

Mixed hydroids (*Halecium halecinum* (supporting densely packed muddy amphipod tubes) and *Nemertesia antennina*), 10.5-11.5 m BCD, 'The Engine' (SSW of Hastings), 50°47.44'N 00°34.09'E, 22.7.1995 (*Halecium* 11.3 g, *Nemertesia* 27.5 g).

BS66 (95/54) (714/54)

Nemertesia antennina (+ a little *Rhodomenia holmesii*), 5.0-7.0 m BCD, N of Long Shoal (8 km E of Eastbourne), 50°45.56'N 00°24.45'E, 22.7.1995 (*Nemertesia* 30.9 g, *Rhodomenia* 2.6 g).

BS67 (95/61) (714/61)

Silt-laden hydroids (including *Hydrallmania falcata*, *Rhizocaulus verticillatus*, *Obelia longissima*), 19.3 m BCD, 4 km S of Seaford, 50°44.02'N 00°06.48'E, 23.7.1995 (38.1 g).

BS68 (95/63) (714/63)

Fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 50°44.17'N 00°04.88'E, 23.7.1995 (1500 ml).

BS69 (95/83) (714/83)

A mixed sample of silt and several flints (one supporting barnacles and *Crepidula fornicata*), 9.8-10.4 m BCD, 2 km SSE of Brighton Marina, 50°47.08'N 00°05.55'W, 16.9.1995 (silt 500 ml).

BS70 (95/85) (714/85)

Fine sand (slightly silty), 5.3-5.8 m BCD, 1 km SE of Brighton Marina, 50°48.10'N 00°05.70'W, 16.9.1995 (375 ml).

BS71 (95/73) (714/73)

Silty gravel, 10.0 m BCD, NE of Palace (Brighton) Pier Reef (c. 1.5 km S of Brighton), 50°48.21'N 00°08.12'W, 16.9.1995 (1500 ml).

BS72 (95/74) (714/74)

Mixed algae (including *Rhodymenia holmesii*, *Ceramium* sp., *Spyridia filamentosa*), 3.7-4.0 m BCD, western vicinity of Brighton Marina, 50°48.50'N 00°06.60'W, 16.9.1995 (14.2 g).

BS73 (95/75) (714/75)

Rhodymenia holmesii (with a diversity of attached/encrusting growths on/among its stolons (including small algae, sponge, small hydroids and the colonial ascidian *Morchellium argus*)), 3.6-4.1 m BCD, western vicinity of Brighton Marina, 50°48.45'N 00°06.55'W, 16.9.1995 (95.1 g).

BS74 (95/95) (714/95)

Calliblepharis ciliata (supporting sparse epiphytic *Ceramium* sp.), 4.1-4.7 m BCD, near Jenny Ground (S of Portslade), 50°49.17'N 00°12.29'W, 17.9.1995 (97.2 g).

BS75 (95/92) (714/92)

Three pebbles and an *Acanthocardia echinata* valve supporting small algal growths (*Gracilaria* sp. and *Cladophora* sp.), 7.9-8.3 m BCD, S of Hove, 50°48.28'N 00°10.39'W, 17.9.1995 (algae 1.6 g).

BS76 (95/93) (714/93)

Calliblepharis ciliata, 5.9-6.4 m BCD, S of Hove, 50°48.68'N 00°10.43'W, 17.9.1995 (7.4 g).

BS77 (95/97) (714/97)

Mixed algae (including *Halurus equisetifolius*, *Heterosiphonia plumosa* (dominant), *Cryptopleura ramosa*), 3.6 m BCD, Mixon Hole (2 km SE of Selsey Bill), 50°42.24'N 00°46.28'W, 17.9.1995 (47.5 g).

BS78 (95/97) (714/97)

Mixed hydroids (including *Hydrallmania falcata* and *Sertularia argentea*), 19.2 m BCD, Mixon Hole (2 km SE of Selsey Bill), 50°42.24'N 00°46.28'W, 17.9.1995 (10.5 g).

BS79 (95/97) (714/97)

Gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole (2 km SE of Selsey Bill), 50°42.24'N 00°46.28'W, 17.9.1995 (860 ml).

BS80 (95/-) (714/-)

Mixed algae (including *Gracilaria* sp. (mainly) and *Rhodymenia holmesii*, the latter with ascidians on/among its stolons (a small colony of *Morchellium argus* and a few *Molgula* sp.)), 4.0-4.9 m BCD, western vicinity of Brighton Marina, 50°48.49'N 00°06.61'W, 22.9.1995 (31.7 g excluding ascidians).

BS81 (95/114) (714/114)

A silty sandy mix of mussel clumps (young *Mytilus edulis*) and *Molgula manhattensis* aggregations, 12.1-12.6 m BCD, Head Ledge, Beachy Head, 50°43.50'N 00°15.40'E, 14.10.1995 (c. 500 ml).

BS82 (95/116) (714/116)

Mixed sediment (gravel/sand/silt), 4.0-4.9 m BCD, off the Seven Sisters, 50°44.71'N 00°10.78'E, 14.10.1995 (1000 ml).

1997 (BS83-102) (Map 5)**BS83 (97/65) (716/65)**

A mixed sample of algae (*Calliblepharis ciliata*, filamentous reds, *Taonia atomaria*) and erect bryozoans (*Bugula* spp.), 0.7 m BCD, W of Selsey Bill (close in), 50°44.00'N 00°49.00'W, 12.7.1997 (algae 18.3 g, *Bugula* 5.5 g).

BS84 (97/64) (716/64) – extracted harpacticoids not included in species list.

A mixed sample of algae (including *Spyridia filamentosa* and *Cryptopleura ramosa*), hydroids (*Amphisbetia operculata* and *Diphasia attenuata*) and bryozoans (*Schizomavella linearis* (encrusting a pebble) and *Bugula fulva*), collected together into the same bag from different depths, the algae c. 4.0 m BCD, the other organisms 19.8 m BCD, Mixon Hole (2 km SE of Selsey Bill), 50°42.24'N 00°46.28'W, 12.7.1997 (algae 10.7 g, *Amphisbetia* 3.5 g, *Bugula* 2.0 g).

BS85 (97/23) (716/23)

Mixed sediment (gravel/sand/silt), 15.6 m BCD, 500 m NE of Outer Owers buoy (10.5 km SE of Selsey Bill), 50°39.00'N 00°41.05'W, 12.7.1997 (210 ml).

BS86 (97/23) (716/23)

Mixed algae (including *Phyllophora pseudoceranoides*, *Heterosiphonia plumosa*, *Cryptopleura ramosa*, *Delesseria sanguinea*), 9.6 m BCD, 500 m NE of Outer Owers buoy (10.5 km SE of Selsey Bill), 50°39.00'N 00°41.05'W, 12.7.1997 (66.1 g).

BS87 (97/20) (716/20)

Silty sand, 6.5 m BCD, Outer Mulberry (4 km SE of Pagham village), 50°44.71'N 00°42.21'W, 12.7.1997 (1100 ml).

BS88 (97/20) (716/20)

Mixed algae with basally entrapped sand (including *Plocamium cartilagineum*, *Heterosiphonia plumosa*, *Cladostephus spongiosus*, *Taonia atomaria*), 6.5 m BCD, Outer Mulberry (4 km SE of Pagham village), 50°44.71'N 00°42.21'W, 12.7.1997 (78.4 g).

BS89 (97/20) (716/20)

Sand, 6.5 m BCD, Outer Mulberry (4 km SE of Pagham village), 50°44.71'N 00°42.21'W, 12.7.1997 (180 ml).

BS90 (97/33) (716/33)

Mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae, mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 50°42.76'N 00°46.94'W, 13.7.1997 (algae 68.3 g).

BS91 (97/?36) (716/?36)

Mixed algae (including *Calliblepharis ciliata*, *Cryptopleura ramosa*, *Halopithys incurvus*, *Cladostephus spongiosus*), 1.6 m BCD, W of Mixon Hole (2 km SE of Selsey Bill), 50°42.20'N 00°46.40'W, 13.7.1997 (78.2 g).

BS92 (97/-) (716/-)

Gravel, 6.0 m BCD, the 'Indiana' wreck (c. 2 km S of Worthing Pier), 50°47.10'N 00°22.25'W, 13.7.1997 (390 ml).

BS93 (97/37) (716/37)

A small mixed sample of red algae (*Rhodophyllis divaricata* supporting epiphytic *Plocamium cartilagineum*) and the bryozoan *Scrupocellaria scruposa*, 2.8 m BCD, W of Mixon Hole (2 km SE of Selsey Bill), 50°42.20'N 00°46.49'W, 13.7.1997 (algae 1.2 g, *Scrupocellaria* 0.6 g).

BS94 (97/26) (716/26)

Medium sand, 26.8 m BCD, Shoal of the Lead (10 km SE of Selsey Bill), 50°39.92'N 00°40.60'W, 13.7.1997 (60 ml).

BS95 (97/26) (716/26)

Clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead (10 km SE of Selsey Bill), 50°39.92'N 00°40.60'W, 13.7.1997 (445 ml).

BS96 (97/27) (716/27)

A mixed sample of algae (including *Ceramium* sp., *Cryptopleura ramosa*, Ectocarpales indet.) and bryozoans (*Alcyonidium diaphanum* and *Flustra foliacea*), 13.8 m BCD, East Bank (10 km S of Bognor Regis), 50°41.52'N 00°38.90'W, 13.7.1997 (algae 13.7 g, bryozoans 11.4 g).

BS97 (97/-) (716/-)

Silt-smothered turf of small/stunted algae (predominantly *Brongniartella byssoides*) and bryozoans (including *Amathia lendigera* and *Scrupocellaria scruposa*), 6.4 m BCD, Outer Mulberry (4 km SE of Pagham village), 50°44.71'N 00°42.21'W, 27.7.1997 (silt + turf 180 ml, turf 8.5 g).

BS98 (97/-) (716/-)

Silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry (4 km SE of Pagham village), 50°44.71'N 00°42.21'W, 27.7.1997 (33.0 g).

BS99 (97/49) (716/49)

Mixed algae (including *Calliblepharis ciliata*, *Cystoclonium purpureum*, *Chondrus crispus*, *Rhodomela confervoides*), 2.6-3.8 m BCD, 2 km E of Selsey Bill, 50°43.37'N 00°45.00'W, 6.9.1997 (190.0 g).

BS100 (97/48) (716/48)

Gravel (+ small pebbles and a little sand), 6.7 m BCD, c. 3.5 km SSE of Selsey Bill (1 km S of Mixon Beacon), 50°41.46'N 00°46.50'W, 6.9.1997 (900 ml).

BS101 (97/62) (716/62)

Mixed algae (including *Calliblepharis ciliata*, *Plocamium cartilagineum*, *Spyridia filamentosa*, *Dictyota dichotoma*), 4.0 m BCD, 5 km S of Selsey Bill, 50°40.53'N 00°47.17'W, 7.9.1997 (63.3 g).

BS102 (97/50) (716/50)

A heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole (E of Boulder Buoy, c. 3.5 km SW of Selsey Bill), 50°41.40'N 00°48.85'W, 7.9.1997 (gravel 330 ml, cobble 15 x 11 x 3-3.5 cm).

WIDEWATER LAGOON, SHOREHAM (Map 5)

Approximate centre of site 50°49.42'N 00°17.80'W (TQ 200 042).

An isolated shingle spit lagoon with no direct connection with the sea, c. 1000 m long by 50-70 m wide, lying parallel to the coastline. Input of sea water was by percolation through the shingle bank which separated the lagoon from the sea, and input of fresh water was by precipitation and land run-off. Information on salinity variation was given by Irving (1997) e.g. in August 1990 it measured 44-50 psu (markedly hypersaline), but on 16 and 17 September 1997 it measured 32.8-33.5 psu in the eastern half of the lagoon, and 28.8-34.6 psu in the western half.

Samples of algae and sediment were collected by Robert Irving, 20.9.1997, as follows:

WLS1

Muddy algae (*Chaetomorpha* sp. and *Cladophora* sp. co-dominant), eastern half of lagoon (14.5 g).

WLS2

Sediment (black silt/mud/gravel) plus several small cockle shells (*Cerastoderma glaucum*), eastern half of lagoon (sediment 80 ml).

WLS3

Clean algae (mainly *Cladophora* sp.), eastern half of lagoon (13.8 g).

WLS4

Sediment (black silt/mud), eastern half of lagoon (125 ml).

WLS5

Saltmarsh (*Salicornia*) mud, eastern half of lagoon (100 ml).

WLS6

Muddy algae (*Enteromorpha* sp. and *Ulva* sp. co-dominant) attached to cockle shells (*Cerastoderma glaucum*), western half of lagoon (algae 22.0 g).

WLS7

Sediment (black silt/mud) plus two live cockles (*Cerastoderma glaucum*) with algae (mainly *Enteromorpha* sp.) attached, western half of lagoon (sediment 90 ml).

SPECIES LIST

Order HARPACTICOIDA Sars, 1903

Notes.

1. Taxonomic categories below sub-order level are listed alphabetically.
2. The principal descriptive literature consulted per species is given in square parentheses, as also are the initials RH (with date of correspondence) referring to Dr Richard Hamond who most kindly examined representative specimens of a wide range of species.
3. Counts of a species are recorded using an expression such as 21,7,10 indicating 21 adult females, 7 of which bore eggs, and 10 adult males (a method adopted from Hamond, 1972). Ovigerous females of many species have undoubtedly been under-recorded due to loss of eggs during handling. Records of copepodites (save females paired with adult males) have been excluded due to inadequate extraction and identification difficulties, but specimens have been retained in reference collections.
4. Lengths are total length to the nearest 10 μm (anterior edge of the rostrum to the posterior border of the caudal rami) except where indicated otherwise.
5. Collections from Brighton intertidal algae (principally *Polysiphonia fucoides* (usually supporting epiphytic *Ceramium* sp.)), January-December 1992 and April-November 1993, have not been fully analyzed through both periods of time for all species, and records given only for 1992 or 1993, especially for the more frequently encountered species, by no means implies absence in the alternative year.

Sub-order POLYARTHRA Lang, 1944

Family CANUELLIDAE Lang, 1944

Canuella perplexa T. & A. Scott, 1893 [Sars, 1903; Lang, 1948; Huys *et al.*, 1996]

Numerous (with numerous *Thompsonula hyaenae*) from saturated fine clean sand, lower intertidal, 0.7-0.6 m ACD, Kemp Town, Brighton, 19.8.1993.

Five dredged records, 12-21 m BCD, Newhaven to Cuckmere Haven, 4.7.1993: 1,0,0 from shell gravel (haul 5); 3,0,2 from silt (haul 6); 2,0,1 from shell gravel (haul 8); 2,1,1 from muddy silt with a coarse shell fraction (haul 9); 2,0,0 from muddy shell gravel (haul 10).

21 records from sublittoral sediments (sand (mainly), gravel, silt, mixed sediment), 3.3-21.5 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS6, 16, 17, 36, 43-48, 50-52, 57, 64, 68-71, 79, 92). Adults per sample, 1-10 from sediments other than sand, and 1-66 from sand, the four highest numbers being:

35,27,28 from fine sand, 6.5 m BCD, 2 km SSE of Roedean School, Brighton, 6.5.1995 (BS45).

34,29,32 from fine sand, 9.0 m BCD, SE of Palace (Brighton) Pier Reef, 6.5.1995 (BS48).

22,13,35 from fine sand (with a few small bivalve shells and *c.* 4-5% shell fragments), 11.2 m BCD, 5 km SSE of Brighton Marina, 22.7.1995 (BS64).

23,14,30 from fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (BS68).

Sunaristes paguri Hesse, 1867 [Sars, 1911 & 1920; Huys *et al.*, 1996]

0,0,1 commensal with *Pagurus bernhardus* in a *Buccinum undatum* shell, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS60).

Family **LONGIPEDIIDAE** Sars, 1903

Longipedia helgolandica Klie, 1949 [Wells, 1980; Huys *et al.*, 1996]

Single specimens twice from *Polysiphonia fucoides*, lower intertidal, Roedean, Brighton: 1,0,0, 0.6 m ACD, 1.8.1992; 0,0,1, 1.4 m ACD, 9.11.1992.

Six dredged records, 12-23 m BCD, Peacehaven to Cuckmere Haven, 4.7.1993: 1,0,0 from shell gravel (haul 1); 1,0,3 from shell gravel (haul 3); 2,0,3 from silt (haul 6); 14,4,5 from shell gravel (haul 8); 1,1,2 from muddy silt with a coarse shell fraction (haul 9); 2,0,1 from muddy shell gravel (haul 10).

54 records (36 co-occurring with *Longipedia minor*) from a variety of sublittoral samples (including algae, algal/bryozoan turf, hydroids, stones with attached/encrusting growths, gravel, sand, silt, mixed sediment), 0.9-26.8 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS2, 6-8, 11, 12, 14-22, 24-27, 30, 31, 35, 36, 40, 42, 43, 45, 50, 51, 55, 58, 60, 61, 63-65, 67, 68, 71, 79, 81-83, 87, 88, 90, 92, 94-98, 100, 102). Adults per sample, 1-25 (mostly less than 10), with higher numbers (41-110) from BS19, 27, 36, 79, 95, 100, 102, four examples as follows:

18,2,28 (with *L. minor* 1,0,0) from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

30,2,26 (with *L. minor* 7,0,1) from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

18,1,24 from clean shell gravel, 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

57,8,53 (with *L. minor* 11,0,4) from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

Longipedia minor T. & A. Scott, 1893 [Wells, 1980; Huys *et al.*, 1996]

Eight records from lower intertidal algae (*Polysiphonia fucoides* except where indicated), 2.0-0.4 m ACD, Roedean, Brighton: 2,0,0, 23.1.1992; 1,0,0, 19.3.1992; 1,0,0, 16.4.1992; 6,2,2 (Ectocarpales indet.), 1.6.1992; 4,1,0 (Ectocarpales indet.), and 7,2,1 (*Cladophora* sp.), 1.7.1992; 1,0,0, 29.8.1992; 3,0,0, 8.12.1992.

Two dredged records, 13 m BCD, Cuckmere Haven, 4.7.1993: 2,0,0 from shell gravel (Haul 8); 1,0,1 from muddy silt with a coarse shell fraction (haul 9).

52 records (36 co-occurring with *Longipedia helgolandica*) from a variety of sublittoral samples (including algae, algal/bryozoan turf, hydroids, stones with attached/encrusting growths, gravel, sand, silt, mixed sediment), 0.9-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS2, 5, 8-10, 12-15, 17-27, 29-32, 35-37, 53, 54, 58, 60-67, 71, 77, 79, 81, 83, 88, 90, 91, 96, 98, 99-102). Adults per sample, 1-25 (mostly less than 10), with higher numbers (32-40) from three samples as follows:

25,3,7 (with *L. helgolandica* 19,2,27) from a silty sample of algae (*Calliblepharis ciliata*, *Brongniartella byssoides*) attached to flint pebbles, 10 m BCD, 7 km S of Worthing, 30.7.1994 (BS19).

26,1,14 (with *L. helgolandica* 11,0,11) from algae (predominantly *Brongniartella byssoides*) attached to flint pebbles, 9.6 m BCD, 5 km S of Goring-by-Sea, 30.7.1994 (BS20).

23,2,15 (with *L. helgolandica* 23,8,28) from silt-smothered algal/bryozoan turf, 5.0 m BCD, Outer Mulberry, 21.8.1994 (BS27).

Note.

Specimens recorded as *Longipedia scotti* Sars from the Brighton lower intertidal, 1983-1984 (Ventham, 1990, pp. 83-84) were found on re-examination to be *L. minor*. The former species was undetected 1992-1997.

Sub-order OLIGOARTHRA Lang, 1944

Family AMEIRIDAE Monard, 1927 (part.), Lang, 1936

Sub-family Ameirinae Lang, 1944

Ameira longipes Boeck, 1865 [Lang, 1965]

A single record only: 1,0,0 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Ameira parvula nana Willey, 1935 [Dinet, 1971]

A single dredged record: 1,0,0 from muddy silt with a coarse shell fraction, 13 m BCD, Cuckmere Haven, 4.7.1993 (haul 9).

Note.

A 330 µm specimen conforming to the female figured by Dinet (1971) from the vicinity of Marseille. Presumed first British record.

Ameira parvula parvula (Claus, 1866) [Sars, 1907, as *A. tau*; Lang, 1948; Moore, 1976a; (RH, 3.3.1994)]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.8-0.5 m ACD, Roedean, Brighton, April-November 1993. Adults per sample usually 1-5 or a few more, but with higher numbers in September, twice exceeding 40: 28,9,31, 1.5 m ACD, and 18,11,24, 0.9 m ACD, 15.9.1993.

Six dredged records, 12-23 m BCD, Newhaven to Cuckmere Haven, 4.7.1993: 3,2,1 from shell gravel (haul 3); 2,2,0 from silt (haul 6); 0,0,1 from small hydroids scraped from stones (haul 7); 12,6,3 from shell gravel (haul 8); 3,3,1 from muddy silt with a coarse shell fraction (haul 9); 1,0,1 from muddy shell gravel (haul 10).

65 records from a variety of sublittoral samples (including red algae, hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf, gravel, mixed sediment (gravel/sand/silt)), 0.7-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS9-15, 18-25, 27-38, 53, 55, 56, 58-63, 65-69, 71-74, 76-83, 86, 88, 90-92, 96-102). Adult number per sample, 1-50 (mostly less than 20), with higher numbers from BS29, 30, 31, 33, 36, 67, 71, 82, 97, 99, 102, five examples as follows:

39,21,18 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

73,24,65 from *Heterosiphonia plumosa*, 6.7 m BCD, South-West Rocks, 1.10.1994 (BS33).

123,49,72 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

38,21,30 from silt-laden hydroids (including *Hydrallmania falcata*, *Rhizocaulus verticillatus*, *Obelia longissima*), 19.3 m BCD, 4 km S of Seaford, 23.7.1995 (BS67).

49,21,23 from mixed algae (including *Calliblepharis ciliata*, *Cystoclonium purpureum*, *Chondrus crispus*, *Rhodomela confervoides*), 2.6-3.8 m BCD, 2 km E of Selsey Bill, 6.9.1997 (BS99).

Note.

Length: females 380-570 µm (rarely up to 620 µm); males 310-430 µm. Smaller specimens resembling diminutive *A. parvula parvula* have been assigned *Ameira* sp. F q.v.

Ameira scotti Sars, 1911 [Sars, 1911; Bodin, 1970]

30 records from a variety of sublittoral samples (including red algae, hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf, gravel), 0.9-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS8-10, 18, 19, 21, 23, 24, 29, 30, 33, 35, 38, 58, 60, 61, 63, 65, 66, 72, 76, 86, 91, 92, 96-100, 102). Adults per sample, 1-20 (mostly 1-5), with higher numbers from two samples as follows:

22,9,30 from mixed material (including red algae and *Tubularia indivisa* with its stems heavily encrusted with *Lichenopora radiata*), 6.7-11.4 m BCD, Worthing Lumps, 3.9.1994 (BS29).

182,59,164 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Ameira* cf. *scotti* var. *brevicornis Monard, 1926 [Lang, 1948; Apostolov & Marinov, 1988]

Six records from *Polysiphonia fucoides*, lower intertidal, 1.6-0.8 m ACD, Roedean, Brighton: 0,0,2, 8.4.1993; 0,0,2, 20.6.1993; 0,0,1, 18.8.1993; 5,3,(2), 15.9.1993; 3,3,0, 13.10.1993; 4,3,5, 11.11.1993.

8,2,0 from mixed red algae (*Corallina officinalis*, *Ceramium* sp., *Polysiphonia fucoides*), lower intertidal, 1.9-1.3 m ACD, Ovingdean Gap (E of Roedean, Brighton), 14.3.1994.

Notes.

1. Comparison of female *A. cf. scotti* var. *brevicornis* with *A. scotti* Sars: A1 as long as/slightly shorter than cephalothorax rather than much longer; P1 closely similar; P5 exp. inner margin more convex; caudal rami more widely spaced.

2. Length: females 460-710 µm; males 360-520 µm.

***Ameira* sp. A**

Seven records from a variety of sublittoral samples (including gravel (mainly), red algae, algal/bryozoan turf), 6.0-26.8 m BCD, SE of Selsey Bill to Cuckmere Haven, details in chronological order as follows:

1,1,0 from shell gravel (including finer sediment), 13 m BCD, Cuckmere Haven, 4.7.1993 ('Aquamanda' dredging trip, haul 8).

1,0,0 from mixed sediment (shell gravel/sand/silt), 8.1-9.6 m BCD, Palace (Brighton) Pier Reef, 17.7.1994 (BS16).

1,0,0 from a silty sample of algae (*Calliblepharis ciliata*, *Brongniartella byssoides*) attached to flint pebbles, 10 m BCD, 7 km S of Worthing, 30.7.1994 (BS19).

16,5,15 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

9,1,5 from gravel, 6.0 m BCD, the 'Indiana' wreck, 13.7.1997 (BS92).

19,3,5 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

7,0,3 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Note.

Length: females 280-570 μm ; males 240-490 μm . The particularly wide size range suggests the possible presence of two species yet to be distinguished e.g. 16,5,15 (BS36) comprised of 13,3,13 smaller specimens (females 280-430 μm ; males 240-370 μm) and 3,2,2 larger specimens (females 470, 530, 540 μm ; males 420, 460 μm). Further examination required by dissection and permanent mount.

***Ameira* sp. B**

Nine records from a variety of sublittoral samples (including red algae, hydroids, algal/bryozoan and hydroid/bryozoan turf), 4.0-22.2 m BCD, SE of Pagham village (Outer Mulberry) to SSW of Hastings, 1994, 1995, 1997 (BS19, 24, 27, 30, 54, 62, 65, 81, 97), details in chronological order as follows:

1,0,0 from a silty sample of algae (*Calliblepharis ciliata*, *Brongniartella byssoides*) attached to flint pebbles, 10 m BCD, 7 km S of Worthing, 30.7.1994 (BS19).

3,1,0 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

14,4,10 from silt-smothered algal/bryozoan turf, 5.0 m BCD, Outer Mulberry, 21.8.1994 (BS27).

1,1,0 from mixed material (including red algae, *Tubularia indivisa*, *Lichenopora radiata*, *Flustra foliacea*), 8.0-11.6 m BCD, Worthing Lumps, 3.9.1994 (BS30).

1,1,0 from silt-smothered algal/bryozoan turf, 6.0m BCD, Outer Mulberry, 21.5.1995 (BS54).

1,0,0 from *Nemertesia antennina*, 4.0 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS62).

1,1,0 from mixed hydroids (*Halecium halecinum* (supporting densely packed muddy amphipod tubes) and *Nemertesia antennina*), 10.5-11.5 m BCD, 'The Engine' (SSW of Hastings), 22.7.1995 (BS65).

5,0,0 from a silty mix of mussel clumps (young *Mytilus edulis*) and *Molgula manhattensis* aggregations, 12.1-12.6 m BCD, Head Ledge, Beachy Head, 14.10.1995 (BS81).

2,0,0 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Note.

Length: females 290-400 μm ; males 260-350 μm .

***Ameira* sp. C**

3,0,(1) from fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (BS68).

Note.

A slender interstitial species. Length: females 340, 340 and 380 μm ; male (provisionally assigned to this species) 250 μm .

***Ameira* sp. D**

Seven records from *Polysiphonia fucooides*, lower intertidal, 1.6-0.7 m ACD, Roedean, Brighton: 1,0,0, 6.5.1993; 0,0,1, 20.6.1993; 0,0,2, 20.7.1993; 2,1,0, 18.8.1993; 4,2,7, 15.9.1993; 4,0,6, 13.10.1993; 3,0,3, 27.11.1993.

36 records from a variety of sublittoral samples (including red algae, hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf), 0.9-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS9-12, 15, 18-21, 23, 24, 27, 29-31, 33, 54, 55, 58-62, 65-67, 71, 73, 74, 81, 86, 96-98, 101, 102). Adults per sample, 1-10 (mostly 1-5), with higher numbers from nine samples as follows:

6,2,6 from *Phyllophora crispa* (supporting epiphytic *Plocamium cartilagineum* and other algae, and the lower parts heavily encrusted with *Electra pilosa* and supporting densely packed *Mytilus edulis* (5-15 mm long)), 6.1-7.4 m BCD, Looe Gate, 2.7.1994 (BS10).

21,3,20 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

6,1,14 from silt-smothered algal/bryozoan turf, 5.0 m BCD, Outer Mulberry, 21.8.1994 (BS27).

7,2,5 from mixed material (including red algae and *Tubularia indivisa* with its stems heavily encrusted with *Lichenopora radiata*), 6.7-11.4 m BCD, Worthing Lumps, 3.9.1994 (BS29).

13,5,7 from mixed material (including red algae, *Tubularia indivisa*, *Lichenopora radiata*, *Flustra foliacea*), 8.0-11.6 m BCD, Worthing Lumps, 3.9.1994 (BS30).

11,2,0 from algae (mainly *Plocamium cartilagineum*), 0.9 m BCD, Seaford Head Gullies, 25.6.1995 (BS58).

24,10,0 from silt-laden hydroid (dominant)/bryozoan turf on a flint cobble, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS61).

13,2,0 from mixed algae (including *Phyllophora pseudoceranooides*, *Heterosiphonia plumosa*, *Cryptopleura ramosa*, *Delesseria sanguinea*), 9.6 m BCD, 500 m NE of Outer Owers buoy, 12.7.1997 (BS86).

87,11,49 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Note.

Length: females 320-410 μm ; males 330-360 μm .

***Ameira* sp. E** (Close to *A. lusitanica* Galhano, 1970) [Galhano, 1970]

1,0,1 from medium sand, 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS94).

Notes.

1. Either *A. lusitanica* or a species close to it, the female P5 exp. with five rather than six setae.

2. Length: female 340 μm ; male 350 μm . Galhano's *A. lusitanica* females averaged 380 μm and males 360 μm .

***Ameira* sp. F**

1,0,1 from *Polysiphonia fucoides*, lower intertidal, 1.0 m ACD, Roedean, Brighton, 8.4.1993.

11 sublittoral records (eight from algae, one from hydroid/bryozoan turf, two from heterogeneous material (detailed below)), 1.6-22.2 m BCD, Selsey Bill to western vicinity of Brighton Marina, 1994, 1997 (BS10, 11, 24, 25, 29, 31, 38, 86, 88, 91, 102). Adult number per sample, 1-4, with higher numbers from two samples as follows:

8,0,1 from mixed material (including red algae and *Tubularia indivisa* with its stems heavily encrusted with *Lichenopora radiata*), 6.7-11.4 m BCD, Worthing Lumps, 3.9.1994 (BS29).

11,3,6 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Note.

Resembles diminutive *A. parvula parvula* (Claus, 1866). Length: females 270-360 µm; males 250-280 µm.

***Ameira* sp. G**

1,0,0 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

Note.

Length 470 µm with a conspicuously long 510 µm caudal seta V.

***Ameira* sp. H**

0,0,1 from mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 13.7.1997 (BS90).

Note.

Length 560 µm.

***Ameiopsis mixta* Sars, 1907 [Sars, 1907; Roe, 1958; (RH, 3.3.1994)]**

Six records from *Polysiphonia fucoides*, lower intertidal, 1.6-0.5 m ACD, Roedean, Brighton: 1,0,1, 8.4.1993; 2,1,3, 6.5.1993; 0,0,3, 20.7.1993; 3,0,5, 15.9.1993; 1,1,0, 11.11.1993; 2,1,0, 27.11.1993.

One dredged record: 4,2,2 from shell gravel, 13 m BCD, Cuckmere Haven, 4.7.1993 (haul 8).

31 records from a variety of sublittoral samples (including red algae, hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf, gravel), 1.0-19.6 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS8-12, 15, 16, 19, 22, 25, 26, 31, 33, 36, 55, 60, 61, 63, 65, 67, 69, 71-73, 80, 81, 90, 92, 97, 98, 102). Adults per sample, 1-13 (mostly 1-3), with higher numbers from three samples as follows:

19,10,8 from silty algae (predominantly *Ceramium* sp.), 4.2-4.7 m BCD, western vicinity of Brighton Marina, 14.8.1994 (BS25).

14,4,10 from gravel (flint – including some near-pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

41,8,17 from gravel, 6.0 m BCD, the 'Indiana' wreck, 13.7.1997 (BS92).

Ameiropsis nobilis Sars, 1911 [Sars, 1911]

3,2,2 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Ameiropsyllus monardi Bodin, 1979 [Bodin, 1979]

1,0,0 from *Polysiphonia fucoides*, lower intertidal, 1.3 m ACD, Roedean, Brighton, 27.11.1993.

Six sublittoral records:

1,0,1 from *Nemertesia antennina* (silt-laden basally), 9.9-11.6 m BCD, Marina Reef (Brighton), also known as Measor's Rocks, 3.7.1994 (BS15).

0,0,1 from silt-smothered algal/bryozoan turf, 6.0 m BCD, Outer Mulberry, 21.5.1995 (BS54).

1,1,0 from hydroids (mainly *Nemertesia antennina*), 6.5 m BCD, SW of Birling Gap, 24.6.1995 (BS55).

2,0,0 from silt-laden *Nemertesia antennina*, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS60).

1,0,0 from *Rhodomenia holmesii*, 3.6-4.1 m BCD, western vicinity of Brighton Marina, 16.9.1995 (BS73).

0,0,3 from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

Note.

Length: females 550-610 μm (the intertidal specimen 670 μm); males 420-560 μm . Bodin's La Rochelle female 500 μm ; the male undescribed. Presumed first British record.

***Ameiropsyllus* sp. A**

Two records from *Polysiphonia fucoides*, lower intertidal, Roedean, Brighton: 1,0,0, 0.6 m ACD, 8.4.1993; 1,0,1, 1.5 m ACD, 15.9.1993.

Two sublittoral records:

1,0,0 from mixed algae (including *Gracilaria* sp. (mainly) and *Rhodomenia holmesii*), 4.0-4.9 m BCD, western vicinity of Brighton Marina, 22.9.1995 (BS80).

4,2,5 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Note.

Length: females 340-390 μm (a telescoped specimen of 320 μm); males 320-350 μm .

Filixilia attenuata (Thompson, 1893) [Conroy-Dalton & Huys, 1997]

Two sublittoral records:

26,14,17 from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

1,0,1 from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1km S of Mixon Beacon, 6.9.1997 (BS100).

***Filexilia* sp. A** [Kunz, 1954; Conroy-Dalton & Huys, 1997]

9,1,9 in company with *F. attenuata* 1,0,1 above, 6.9.1997 (BS100).

Notes.

1. Close to *Filexilia brevipes* (Kunz, 1954) comb. n. (Conroy-Dalton & Huys, 1997), but the female P5 exp. agreeing, in shape and possession of five rather than six setae, with Kunz's Fig. 9 of '*Ameira brevipes*' from Agay (French Mediterranean coast). Female caudal ramus c. 2.4 times as long as maximum width.
2. Length: females 490-530 μm (+ a smaller specimen of 400 μm); males 380-440 μm .

***Leptomesochra* sp. A** [See notes 1 & 2 below]

2,0,2 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Notes.

1. Referring to Soyer (1966) the females key out to *L. confluens* Sars, 1911 (P5 exp. and benp. fused) and the males to *L. theodoridis* Soyer, 1966 (P5 exp. and benp. fused, the latter with two setae), however, both sexes seem rather too large for these two species and are therefore provisionally regarded as representing a single possibly undescribed species. Manipulation of specimens was minimal to avoid damage.
2. Length: females 950 and 1040 μm (Sars's female *L. confluens* from Korshavn 680 μm); males 870 and 1050 μm (Soyer's male *L. theodoridis* from Banyuls-sur-Mer 458 μm).

Nitokra affinis affinis Gurney, 1927 [Lang, 1948 & 1965; Roe, 1958; (RH, 20.11.1994)]

Three records from *Polysiphonia fucoides*, lower intertidal, Roedean, Brighton: 2,0,0, 1.5 m ACD, and 1,0,0, 0.9 m ACD, 15.9.1993; 0,0,1, 1.3 m ACD, 13.10.1993.

Nitokra spinipes Boeck, 1865 [Sars, 1907; Lang, 1948 & 1965]

10,1,3 from saltmarsh (*Salicornia*) mud, Widewater Lagoon, Shoreham, 20.9.1997 (WLS5).

Nitokra typica typica Boeck, 1865 [Sars, 1907; Lang, 1948; (RH, 20.12.1989: 1983 specimen)]

Two records from *Polysiphonia fucoides*, lower intertidal, Roedean, Brighton: 0,0,1, 0.9 m ACD, 20.7.1993; 0,0,1, 1.5 m ACD, 13.10.1993.

Note.

1,0,0 from a scraping of barnacles and small mussels from a groyne, 4.1 m ACD, Kemp Town, Brighton, 2.12.1983 (Ventham, 1990).

Proameira* cf. *hiddensoensis (Schäfer, 1936) [Lang, 1948; Kunz, 1954; Conroy-Dalton & Huys, 1998]

Six records from *Polysiphonia fucoides*, lower intertidal, 1.3-0.5 m ACD, Roedean, Brighton: 1,1,0, 8.4.1993; 1,1,0, 6.5.1993; 2,0,0, 20.6.1993; 3,1,0, 13.10.1993; 1,0,0, 11.11.1993; 1,1,0, 27.11.1993.

Six records from a variety of sublittoral samples (including algae, hydroid/bryozoan turf, heterogeneous material (details below)), 1.0-22.2 m BCD, Selsey Bill to SSW of Hove, 1994, 1997 (BS10, 24, 29, 31, 90, 102), details in chronological order as follows:

1,0,0 from *Phyllophora crispa* (supporting epiphytic *Plocamium cartilagineum* and other algae, and the lower parts heavily encrusted with *Electra pilosa* and supporting densely packed *Mytilus edulis* (5-15 mm long)), 6.1-7.4 m BCD, Looe Gate, 2.7.1994 (BS10).

2,2,1 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

1,0,0 from mixed material (including red algae and *Tubularia indivisa* with its stems heavily encrusted with *Lichenopora radiata*), 6.7-11.4 m BCD, Worthing Lumps, 3.9.1994 (BS29).

1,0,0 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

1,1,0 from mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 13.7.1997 (BS90).

1,0,0 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Notes.

1. Anal operculum spinulose; P2-P4 setation (exp-1 **without** inner seta) as listed by Kunz (1954). The redescription of *P. hiddensoensis* by Pallares (1982) was unavailable for consultation.

2. Length: females 410-500 µm (telescoped specimens 360 and 390 µm); male 370 µm. Schäfer's (1936) female 560 µm and male 465 µm (Lang 1948).

Proameira* cf. *simplex (Norman & T. Scott, 1905) [Sars, 1907 as *Ameira*; Lang, 1948; Guille & Soyer, 1966]

1,0,3 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Notes.

1. Assigned provisionally to this species pending dissection and permanent mount.

2. Length: female 440 µm (smaller than reported elsewhere e.g. 600-640 µm (authors cited by Lang, 1948) and 672 µm (Guille & Soyer, 1966); males 350, 360 and 380 µm.

***Proameira* sp. A**

Five sublittoral records:

1,0,0 from dredged shell gravel, 13 m BCD, Cuckmere Haven, 4.7.1993 (haul 8).

1,0,0 from the hydroid *Obelia longissima*, 8.2 m BCD, 2 km SSE of Roedean School, Brighton, 6.5.1995 (BS42).

Three records (in company with *Proameira* spp. B & D *q.v.*) from silt-smothered algal/bryozoan turf, Outer Mulberry: 5,1,1, 5.0 m BCD, 21.8.1994 (BS27); 8,2,5, 6.0 m BCD, 21.5.1995 (BS54); 7,0,7, 6.4 m BCD, 27.7.1997 (BS97).

Notes.

1. Anal operculum spinulose; P2-P4 exp-1 with inner seta; female P5 exp. sub-oval with 6 setae (the outer margin proximal-but-one minute), benp. with 5 setae (the inner three with forked tips).
2. Length: females 530-650 μm (a telescoped specimen of 450 μm); males 380-490 μm .

***Proameira* sp. B**

1,0,0 from *Polysiphonia fucoides*, lower intertidal, 1.3 m ACD, Roedean, Brighton, 11.11.1993.

Seven sublittoral records:

0,0,1 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

5,0,0 from a silty sandy mix of mussel clumps (young *Mytilus edulis*) and *Molgula manhattensis* aggregations, 12.1-12.6 m BCD, Head Ledge, Beachy Head, 14.10.1995 (BS81).

2,0,1 from mixed sediment (gravel/sand/silt), 4.0-4.9 m BCD, off the Seven Sisters, 14.10.1995 (BS82).

1,1,0 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Three records (in company with *Proameira* spp. A & D *q.v.*) from silt-smothered algal/bryozoan turf, Outer Mulberry: 2,0,0, 5.0 m BCD, 21.8.1994 (BS27); 1,0,1, 6.0 m BCD, 21.5.1995 (BS54); 7,2,3, 6.4 m BCD, 27.7.1997 (BS97).

Notes.

1. Anal operculum spinulose; P2-P4 exp-1 with inner seta; female P5 exp. with 6 setae, benp. with 5 setae (all with simple tips).
2. Length: females 420-560 μm ; males 350-470 μm .

***Proameira* sp. D**

Five records from *Polysiphonia fucoides*, lower intertidal, 1.5-0.6 m ACD, Roedean, Brighton: 1,1,0, 18.8.1993; 2,1,0, 15.9.1993; 4,1,0, 13.10.1993; 1,0,0, 11.11.1993; 2,0,1, 27.11.1993.

30 records from a variety of sublittoral samples (including algae, hydroids, erect bryozoans, algal/bryozoan turf, gravel, silty sand (single specimens twice only)), 1.0-26.8 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS10, 15, 20, 27-32, 36, 42, 54, 55, 61, 65, 66, 68, 71, 79, 81, 87, 88, 90-92, 95, 97, 98, 100, 102). Adults per sample, 1-6, with higher numbers from nine samples as follows:

4,1,3 from algae (predominantly *Brongniartella byssoides*) attached to flint pebbles, 9.6 m BCD, 5 km S of Goring-by-Sea, 30.7.1994 (BS20).

12,1,2 (in company with *Proameira* spp. A & B *q.v.*) from silt-smothered algal/bryozoan turf, 5.0 m BCD, Outer Mulberry, 21.8.1994 (BS27).

11,3,5 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

6,2,2 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

7,2,4 from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

9,1,(3) from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

6,2,2 (in company with *Proameira* spp. A & B *q.v.*) from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

5,2,3 from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

8,0,0 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Notes.

1. Anal operculum bare; P2-P4 exp-1 **without** inner seta; female P5 exp. *c.* 2.5 times as long as maximum width and with 6 setae. *P. hiddenseensis* (Schäfer, 1936) and *P. phaedra* (Monard, 1935) are the only other known members of the genus to have lost the inner seta from P2-P4 exp-1 (Conroy-Dalton & Huys, 1998).

2. Length: females 400-520 µm; males 330-400 µm.

***Proameira* sp. E**

1,1,0 from *Polysiphonia fucoides*, lower intertidal, 1.2 m ACD, Roedean, Brighton, 27.11.1993.

Note.

A fairly robust species, 590 µm long. P5 exp. similar in shape and setation to *Proameira signata* Por, 1964, but otherwise not at all close. The specimen slightly damaged having lost a P1 exp-3., manipulation minimal.

***Pseudameira crassicornis* Sars, 1911 [Sars, 1911; Moore, 1976a; Bodin, 1979]**

10 records from a variety of sublittoral samples (including silty algal/bryozoan turf, fine sand, gravel), 6.0-26.8 m BCD, Selsey Bill to S of Saltdean (between Brighton and Newhaven), 1994, 1995, 1997 (BS36, 40, 48, 50, 54, 88, 92, 95, 97, 100). Single adults per sample save three samples as follows:

8,1,1 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

4,1,1 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

4,1,1 from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

***Pseudameira* sp. A**

Five records from *Polysiphonia fucoides*, lower intertidal, 1.5-0.7 m ACD, Roedean, Brighton: 1,1,0, 6.5.1993; 0,0,1, 18.8.1993; 0,0,2 and 0,0,1 (from separate samples), 15.9.1993; 0,0,1, 11.11.1993.

Five sublittoral records:

0,0,1 from hydroids (mainly *Nemertesia antennina*), 6.5 m BCD, SW of Birling Gap, 24.6.1995 (BS55).

0,0,1 from algae (mainly *Plocamium cartilagineum*), 0.9 m BCD, Seaford Head Gullies, 25.6.1995 (BS58).

1,0,0 from silt-laden *Nemertesia antennina*, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS60).

1,0,0 from silt-laden hydroid (dominant)/bryozoan turf on a flint cobble, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS61).

39,5,26 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Note.

Length: females 260-370 µm; males 250-300 µm.

Psyllocamptus propinquus (T. Scott, 1895) [Lang, 1948; Gomez, 2002]

Nine records from *Polysiphonia fucoides*, lower intertidal, 1.6-0.6 m ACD, Roedean, Brighton: 3,2,0, 8.4.1993; 0,0,1, 6.5.1993; 2,1,0, 20.6.1993; 3,1,1, 20.7.1993; 3,1,1, 18.8.1993; 9,2,3, 15.9.1993; 12,0,4, 13.10.1993; 4,0,2, 11.11.1993; 4,0,1, 27.11.1993.

29 records from a variety of sublittoral samples (including red algae, hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf, gravel (twice)), 2.4-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS9, 10, 12, 15, 19-22, 24, 27, 31, 39, 53, 59-61, 65, 66, 76-78, 81, 86, 88, 96, 98, 100-102). Adults per sample, 1-5 (mostly 1-2), with just one or two more from the following three samples:

4,2,3 from algae (predominantly *Brongniartella byssoides*) attached to flint pebbles, 9.6 m BCD, 5 km S of Goring-by-Sea, 30.7.1994 (BS20).

5,1,3 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

5,2,1 from mixed algae with basally entrapped sand (including *Plocamium cartilagineum*, *Heterosiphonia plumosa*, *Cladostephus spongiosus*, *Taonia atomaria*), 6.5 m BCD, Outer Mulberry, 12.7.1997 (BS88).

***Psyllocamptus* sp. A** (Close to *P. minutus minutus* Sars, 1911)

Eight records from *Polysiphonia fucoides*, lower intertidal, 1.6-0.5 m ACD, Roedean, Brighton: 7,4,(1), 8.4.1993; 5,2,1, 20.6.1993; 5,1,4, 20.7.1993; 3,0,0, 18.8.1993; 16,3,10, 15.9.1993; 5,0,4, 13.10.1993; 10,0,2, 11.11.1993; 2,0,1, 27.11.1993.

26 records from a variety of sublittoral samples (including red algae, hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf, gravel), 0.9-19.6 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS12, 15, 18, 19, 25, 27, 31, 34, 36, 38, 54, 55, 58-61, 65, 66, 72-74, 78, 81, 98, 100, 102). Adults per sample, 1-5, with 6-24 from the following four samples:

2,0,4 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

5,0,4 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

7,5,0 from mixed hydroids (*Halecium halecinum* (supporting densely packed muddy amphipod tubes) and *Nemertesia antennina*), 10.5-11.5 m BCD, 'The Engine' (SSW of Hastings), 22.7.1995 (BS65).

6,0,18 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Notes.

1. Close to *P. minutus minutus* Sars, but P1 enp-2 with four rather than three setae, the additional seta small and situated on the inner margin. Does not key out in Gomez (2002) to species, the only described species within the subgenus to have four setae on P1 enp-2 being *P. bermudae* Willey, 1930 and *P. totoramensis* Gomez, 2002.

2. Noticeable variation in setal length on female P5 exp., the outer margin proximal and proximal-but-one seta being 'normal' on some individuals, but much shorter (without intermediate lengths) on others, the proximal element minute.

3. Length: females 300-450 µm (two extended specimens 480 and 530 µm); males 240-380 µm.

Sicameira gracilis (A. Scott, 1896) [Por, 1964; Conroy-Dalton & Huys, 1997]

1,0,0 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Note.

Length 550 µm.

Sicameira cf. intermedia Marinov, 1973 [Marinov, 1973; Conroy-Dalton & Huys, 1997]

2,0,0 in company with *S. gracilis* 1,0,0 above, 13.7.1997 (BS95).

Note.

Length 450 and 470 µm.

Ameirinae (Ameirid spp. A & B) requiring further examination:

Ameirid sp. A

Three sublittoral records, single females only:

1,0,0 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

1,0,0 from medium/coarse sand, 16.9 m BCD, 4km S of Peacehaven, 7.5.1995 (BS51).

1,0,0 from fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (BS68).

Notes.

1. Keys out in Boxshall & Halsey (2004) to *Nitokra*, but P5 exp. and benp. uncharacteristically bear 5 and 4 setae respectively.

2. Length 430, 400 and 450 µm respectively.

Ameirid sp. B

1,0,0 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Note.

A slender typically interstitial species 540 µm long. The specimen slightly damaged having lost the left P1 enp-3.

Sub-family **Stenocopiinae** Lang, 1944

Stenocopia longicaudata longicaudata (T. Scott, 1892) [Sars, 1907]

1,0,0 from *Calliblepharis ciliata*/filamentous rhodophytes, 7.2 m BCD, 5 km S of Angmering-on-Sea, 30.7.1994 (BS21).

6,0,6 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS 102).

Family **ANCORABOLIDAE** Sars, 1909

Sub-family **Laophontodinae** Lang, 1944

Laophontodes typicus T. Scott, 1894 [Sars, 1908]

12 records from a variety of sublittoral samples (including algae, hydroids, hydroid/bryozoan and bryozoan turf, gravel, heterogeneous material (detailed below)), 0.9-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS21, 24, 29, 30, 36, 58, 61, 65, 66, 78, 98, 102). Adults per sample, 1-6, with higher numbers from two samples as follows:

4,2,7 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

36,8,14 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Family **ARGESTIDAE** Por, 1986

Eurycletodes similis (T. Scott, 1895) [Sars, 1909; (RH, 20.11.1994)]

Two records from *Polysiphonia fucoides*, lower intertidal, Roedean, Brighton: 2,0,0, 0.9 m ACD, 15.9.1993; 1,0,1, 1.2 m ACD, 27.11.1993.

20 records from a variety of sublittoral samples (including algae, algal/bryozoan turf, hydroids, hydroid/bryozoan and bryozoan turf), 0.9-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS9, 18, 23, 24, 27, 31, 53-55, 58, 60-62, 65, 66, 69, 86, 97, 98, 102). Adults per sample, 1-7, with higher numbers from two samples as follows:

11,6,4 from silt-laden *Nemertesia antennina*, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS60).

36,7,29 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Family CANTHOCAMPTIDAE Sars, 1906

Itunella muelleri (Gagern, 1922) [Lang, 1948; (RH, 20.12.89: 1984 specimens)]

Recorded on six occasions from *Polysiphonia fucoides*, lower intertidal, Roedean, Brighton, 1.7-0.6 m ACD: 0,0,1, 25.10.1992; 1,0,0, 26.10.1992; 1,0,0, 8.12.1992; 1,0,0, 8.4.1993; 2,0,0, 13.10.1993; 0,0,1, 11.11.1993.

Note.

Single specimens on six occasions from the Brighton intertidal, 1983-1985 (Ventham, 1990), including 1,0,0 from a scraping of barnacles and small mussels from a groyne, 4.1 m ACD, Kemp Town, 2.12.1983.

Mesochra cf. inconspicua (T. Scott, 1899) [Lang, 1948; Hamond, 1971]

Five sublittoral records:

1,0,0 from mixed material (including red algae and *Tubularia indivisa* with its stems heavily encrusted with *Lichenopora radiata*), 6.7-11.4 m BCD, Worthing Lumps, 3.9.1994 (BS29).

1,0,0 from mixed material (including red algae, *Tubularia indivisa*, *Lichenopora radiata*, *Flustra foliacea*), 8.0-11.6 m BCD, Worthing Lumps, 3.9.1994 (BS30).

0,0,1 from gravel (mixed flint and shell), 7.8 m BCD, Outer Mulberry, 25.3.1995 (BS40).

0,0,1 from hydroids (mainly *Nemertesia antennina*), 6.5 m BCD, SW of Birling Gap, 24.6.1995 (BS55).

1,1,1 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Note.

Very provisionally assigned to this species.

Mesochra lilljeborgi Boeck, 1865 [Sars, 1907; Lang, 1948; Hamond, 1971]

Dominated six out of seven samples collected from Widewater Lagoon, Shoreham, 20.9.1997: abundant (c. 1800 adults + 200 pairs) from muddy algae (*Chaetomorpha* sp. and *Cladophora* sp. co-dominant) (WLS1); 223,159,61 + 22 pairs from sediment (black silt/mud/gravel) plus several small cockle shells (WLS2); abundant (c. 5800 adults) from clean algae (mainly *Cladophora* sp.) (WLS3); 465 adults from sediment (black silt/mud) (WLS4); abundant (c. 3850 adults) from muddy algae (*Enteromorpha* sp. and *Ulva* sp. co-dominant) attached to cockle shells (WLS6); 93 adults from sediment (black silt/mud) plus two live cockles with algae (mainly *Enteromorpha* sp.) attached (WLS7).

Mesochra pygmaea (Claus, 1863) [Hamond, 1971; (RH, 3.3.1994)]

Two records from Widewater Lagoon, Shoreham, 20.9.1997: 34,5,18 from muddy algae (*Chaetomorpha* sp. and *Cladophora* sp. co-dominant) (WLS1); several specimens from muddy algae (*Enteromorpha* sp. and *Ulva* sp. co-dominant) attached to cockle shells (WLS6).

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.8-0.5 m ACD, Roedean, Brighton, April-November 1993. Adults per sample, 1-11 (mostly less than 5).

Six dredged records, 12-23 m BCD, Peacehaven to Cuckmere Haven, 4.7.1993: 2,0,0 from shell gravel (haul 1); 4,1,1 from hydroids/erect bryozoans scraped from cobbles (haul 2); 1,0,0 from shell gravel (haul 3); 1,0,0 from silt (haul 6); 3,0,0 from muddy silt with a coarse shell fraction (haul 9); 0,0,1 from muddy shell gravel (haul 10).

61 records from a variety of sublittoral samples (including algae, hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf, gravel), 0.9-26.8 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS1, 2, 8-15, 18-21, 23-25, 27-33, 35-38, 41, 53-56, 58-63, 65-68, 71-74, 77, 81, 86, 88, 90, 91, 93, 95-98, 100-102). Adults per sample, 1-71 (43 samples less than 20), with higher numbers from three samples as follows:

192,16,43 from *Phyllophora crispa* (the lower parts heavily encrusted with *Electra pilosa* and supporting densely packed *Mytilus edulis* (5-15 mm long)), 6.1-7.4 m BCD, Looe Gate, 2.7.1994 (BS9).

159,12,49 from a similar sample to above, the *Phyllophora crispa* additionally supporting epiphytic *Plocamium cartilagineum* and other algae, same depth and location, 2.7.1994 (BS10).

94,0,12 from a silty sample of algae (*Calliblepharis ciliata*, *Brongniartella byssoides*) attached to flint pebbles, 10 m BCD, 7 km S of Worthing, 30.7.1994 (BS19).

Note.

P5 exp. of all males examined bore six setae ('typical' form in Hamond's 1971 key) rather than five (Sars, 1907).

Mesochra cf. timsae Gurney, 1927 [Lang, 1948; Hamond, 1971]

1,0,0 from silt-smothered algal/bryozoan turf, 6.0 m BCD, Outer Mulberry, 21.5.1995 (BS54).

2,1,0 from silt-laden hydroids (including *Hydrallmania falcata*, *Rhizocaulus verticillatus*, *Obelia longissima*), 19.3 m BCD, 4 km S of Seaford, 23.7.1995 (BS67).

Note.

Very provisionally assigned to this species.

Mesochra sp. A

10,0,7 (smaller than accompanying *M. pygmaea* 7,0,0) from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Nannomesochra arupinensis (Brian, 1925) [Lang, 1948; (RH, 18.4.1993)]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.8-0.5 m ACD, Roedean, Brighton, February-April, August, October-December 1992 and April-November 1993. Adults per sample, 1-9 (mostly less than 5).

13 records from a variety of sublittoral samples (including algae (mainly), algal/bryozoan turf, hydroids, heterogeneous gravel/cobble material), 1.6-19.6 m BCD, Selsey Bill to SW of Shoreham, 1994, 1995, 1997 (BS2, 23, 27, 31, 39, 53, 54, 77, 78, 86, 88, 91, 102). Adults per sample, 1-3 (mostly single specimens), two examples as follows:

2,1,0 from mixed algae (including *Heterosiphonia plumosa* and *Brongniartella byssoides*), 4.5 m BCD, Outer Mulberry, 31.7.1994 (BS23).

1,0,0 from mixed hydroids (including *Hydrallmania falcata* and *Sertularia argentea*), 19.2 m BCD, Mixon Hole, 17.9.1995 (BS78).

Family **CLETODIDAE** T. Scott, 1905

Cletodes tenuipes T. Scott, 1896 [Sars, 1909; (RH, 20.12.1989: 1983 specimens (Ventham, 1990))]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.5-0.4 m ACD, Roedean, Brighton, January, February, August-December 1992. Adults per sample, 1-10 (mostly less than 5, maximal December).

Four dredged records, 12-17 m BCD, Newhaven to Cuckmere Haven, 4.7.1993: 3,0,5 from silt (haul 6); 2,1,3 from shell gravel (haul 8); 2,2,1 from muddy silt with a coarse shell fraction (haul 9); 3,0,0 from muddy shell gravel (haul 10).

36 records from a variety of sublittoral samples (including algae, algal/bryozoan turf, hydroids, gravel, sand, silt, mixed sediment, heterogeneous material), 0.7-21.5 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS7, 11, 12, 19, 20, 22, 25, 27, 28, 31, 36, 38, 45, 54, 55, 57, 59-63, 67-69, 71, 72, 74, 79-83, 90, 97, 100, 102). Adults per sample, 1-25 (mostly 1-5), with higher numbers from four samples as follows:

35,15,18 from silty gravel, 10.0 m BCD, NE of Palace (Brighton) Pier Reef, 16.9.1995 (BS71).

176,11,28 from a silty sandy mix of mussel clumps (young *Mytilus edulis*) and *Molgula manhattensis* aggregations, 12.1-12.6 m BCD, Head Ledge, Beachy Head, 14.10.1995 (BS81).

66,11,30 from mixed sediment (gravel/sand/silt), 4.0-4.9 m BCD, off the Seven Sisters, 14.10.1995 (BS82).

33,9,50 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Enhydrosoma longifurcatum Sars, 1909 [Sars, 1909; Roe, 1959; Bodin, 1970; (RH, 20.12.1989: 1984 specimen (Ventham, 1990))]

2,0,1 from *Polysiphonia fucoides*, lower intertidal, 0.9-0.6 m ACD, Roedean, Brighton, 8.4.1993.

Four sublittoral records:

0,0,1 from mixed algae (including *Calliblepharis ciliata* and filamentous rhodophytes), 3.2-4.0 m BCD, S of Jenny Ground, 2.7.1994 (BS11).

0,0,1 from small algal/hydroid growths on a pebble, 10.4 m BCD, 5 km S of Shoreham, 4.9.1994 (BS32).

Twice from silt-smothered algal/bryozoan turf, Outer Mulberry: 2,0,4, 5.0 m BCD, 21.8.1994 (BS27); 17,2,18, 6.4 m BCD, 27.7.1997 (BS97).

Note.

P5 exp. and benp. fused in both sexes as amended by Bodin (1970) rather than the male only (Sars 1909).

Enhydrosoma propinquum (Brady & Robertson in Brady, 1880) [Sars, 1909; (RH, 3.3.1994)]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.5-0.4 m ACD, Roedean, Brighton, January-March, September, November, December 1992. Adults per sample, 1-3.

Six dredged records, 12-21 m BCD, Peacehaven to Cuckmere Haven, 4.7.1993: 1,0,0 from shell gravel (haul 1); 0,0,1 from shell gravel (haul 5); 212,3,139 from silt (haul 6); 4,0,4 from shell gravel (haul 8); 27,2,4 from muddy silt with a coarse shell fraction (haul 9); 36,0,20 from muddy shell gravel (haul 10).

38 records from a variety of sublittoral samples (algae, algal/bryozoan turf, hydroids, gravel, sand, silt, mixed sediment, heterogeneous material), 2.2-21.5 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS5-7, 11, 16, 17, 19, 25-27, 31, 36, 39, 43, 45, 54, 55, 57, 59-61, 63-65, 67-73, 75, 79, 81, 82, 92, 97, 102). Adults per sample, 1-26 (mostly less than 10), with higher numbers from five samples as follows:

75,0,52 from a mixed sample of silt and several flints (one supporting barnacles and *Crepidula fornicata*), 9.8-10.4 m BCD, 2 km SSE of Brighton Marina, 16.9.1995 (BS69).

312,3,148 from silty gravel, 10.0 m BCD, NE of Palace (Brighton) Pier Reef, 16.9.1995 (BS71).

41,0,11 from a silty sandy mix of mussel clumps (young *Mytilus edulis*) and *Molgula manhattensis* aggregations, 12.1-12.6 m BCD, Head Ledge, Beachy Head, 14.10.1995 (BS81).

28,0,21 from mixed sediment (gravel/sand/silt), 4.0-4.9 m BCD, off the Seven Sisters, 14.10.1995 (BS82).

45,0,48 from silt-smothered algal/bryozoan, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Stylicletodes longicaudatus (Brady & Robertson in Brady, 1880) [Lang, 1965; (RH, 20.11.1994)]

1,0,0 from *Polysiphonia fucoides*, lower intertidal, 1.2 m ACD, Roedean, Brighton, 27.11.1993.

Three records from silt-smothered algal/bryozoan turf, Outer Mulberry: 2,1,0, 5.0 m BCD, 21.8.1994 (BS27); 1,0,0, 6.0 m BCD, 21.5.1995 (BS54); 2,1,0, 6.4 m BCD, 27.7.1997 (BS97).

Family DANIELSSENIIDAE Huys & Gee, 1996

Danielssenia typica Boeck, 1872 [Huys & Gee, 1993]

Three records from silt-smothered algal/bryozoan turf, Outer Mulberry: 336,0,1, 5.0 m BCD, 21.8.1994 (BS27); 52,0,32, 6.0 m BCD, 21.5.1995 (BS54); 1,0,0, 6.4 m BCD, 27.7.1997 (BS97).

Note.

Danielssenia quadriseta Gee, 1988, a species readily confused with *D. typica*, was undetected.

Peltisenia aberrans (Por, 1964) [Huys & Gee, 1996]

12,0,5 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Note.

The northernmost encounter to date. Previously recorded from Israel (off Nahariya), France (Marseille and Banyuls-sur-Mer) and England (Isles of Scilly) according to Huys & Gee (1996).

Family **DARCYTHOMPSONIIDAE** Lang, 1936

***Leptocaris* sp. A**

1,0,0 from *Polysiphonia fucoides*, lower intertidal, 1.2 m ACD, Roedean, Brighton, 27.11.1993.

Note.

A species that does not key out in Huys *et al.* (1996).

Family **ECTINOSOMATIDAE** Sars, 1903

The initials MC refer to Michel Clément who examined specimens of the majority of ectinosomatid species in this list and most kindly provided comments on them 26.10.2010. A complete and reliable set of records would have been impossible without his most helpful interest.

Bradya scotti Sars, 1920 [Sars, 1920; Huys *et al.*, 1996]

2,0,0 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

Three records from silt-smothered algal/bryozoan turf, Outer Mulberry: 74,13,6, 5.0 m BCD, 21.8.1994 (BS27); 16,6,1, 6.0 m BCD, 21.5.1995 (BS54); 1,0,0, 6.4 m BCD, 27.7.1997 (BS97).

Ectinosoma melaniceps Boeck, 1865 [Sars, 1904; Roe, 1958; Lang, 1965]

Recorded from *Polysiphonia fucoides*, lower intertidal, 2.3-0.5 m ACD, Roedean, Brighton, January-December 1992, April-November 1993, and from ephemeral algae (Ectocarpales indet., *Cladophora* sp.), 2.3-0.7 m ACD, May-August 1992. Adults per sample of *P. fucoides*, 2-90 (maximal March, September 1992, September 1993); adults per sample of ephemeral algae, 4-17.

Five dredged records, 13-23 m BCD, Seaford to Cuckmere Haven, 4.7.1993: 3,0,0 from shell gravel (haul 3); 1,0,0 from silt (haul 6); 2,0,0 from small hydroids scraped from stones (haul 7); 10,0,0 from shell gravel (haul 8); 2,0,0 from muddy silt with a coarse shell fraction (haul 9).

62 records from a variety of sublittoral samples (including algae, hydroids, bryozoan turf, algal/bryozoan and hydroid/bryozoan turf, gravel), 0.7-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS9-13, 15, 17-27, 29-31, 33-38, 41, 53, 54, 56, 58-63, 65-67, 69, 72-74, 76-81, 83, 86, 88, 90-93, 97-102). Adults per sample, 1-79 (36 samples 1-20), with higher numbers (149-289) from the following five samples:

128,3,21 from *Heterosiphonia plumosa*, 6.7 m BCD, South-West Rocks, 1.10.1994 (BS33).

197,3,27 from mixed algae co-dominated by *Calliblepharis ciliata* and *Phyllophora pseudoceranooides*, 8.0 m BCD, western end of Worthing Lumps, 15.10.1994 (BS38).

221,4,41 from *Calliblepharis ciliata* (supporting sparse epiphytic *Ceramium* sp.), 4.1-4.7 m BCD, near Jenny Ground, 17.9.1995 (BS74).

216,3,73 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

134,0,21 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Note.

Ovigerous females (as with many other species) have undoubtedly been under-recorded due to loss of eggs during handling.

Ectinosoma normani T. & A. Scott, 1894 [Sars, 1904; Lang, 1965]

One dredged record: 1,0,1 from shell gravel, 13 m BCD, Cuckmere Haven, 4.7.1993 (haul 8).

29 records from a variety of sublittoral samples (including algae, hydroids, erect bryozoans, algal/bryozoan turf, gravel, fine sand (single record only: 1,0,0, BS45), mixed sediment), 0.7-19.6 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS2, 27, 36, 45, 55, 58-60, 63, 65-67, 71, 73, 78, 81-83, 86, 88, 90, 91, 96-102). Adults per sample, 1-12 (19 samples less than 5), with higher numbers from four samples as follows:

Twice from silt-smothered algal/bryozoan turf, Outer Mulberry: 20,1,0, 5.0 m BCD, 21.8.1994 (BS27); 17,0,1, 6.4 m BCD, 27.7.1997 (BS97).

26,3,4 from silty gravel, 10.0 m BCD, NE of Palace (Brighton) Pier Reef, 16.9.1995 (BS71).

22,0,4 from a silty sandy mix of mussel clumps (young *Mytilus edulis*) and *Molgula manhattensis* aggregations, 12.1-12.6 m BCD, Head Ledge, Beachy Head, 14.10.1995 (BS81).

Ectinosoma reductum reductum Bozic, 1955

12,0,0 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Note.

Identified by MC. Presumed first British record.

***Ectinosoma* sp. A**

Two records (under-recorded) from *Polysiphonia fucoides*, lower intertidal, Roedean, Brighton: 28,6,8, 0.7 m ACD, 18.8.1993; 10,3,11, 0.9 m ACD, 15.9.1993.

77 records from a variety of sublittoral samples (including algae (yielding the highest numbers), hydroids, bryozoan turf, algal/bryozoan and hydroid/bryozoan turf, gravel, fine sand (twice only: 2,0,0, BS64; 1,0,0, BS68)), 0.7-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS2-4, 7-15, 17-38, 41, 42, 53-56, 58-69, 71-81, 83, 86, 88, 90-93, 96-102). Adults per sample, 1-209 (45 samples 1-98), with higher numbers (251-1464) from BS9-12, 19, 29-31, 33, 38, 58, 63, 67, 74, 86, 88, 91, 99, 101, the four highest being:

734,19,98 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

1312,37,152 from *Heterosiphonia plumosa*, 6.7 m BCD, South-West Rocks, 1.10.1994 (BS33).

486,7,24 from mixed algae co-dominated by *Calliblepharis ciliata* and *Phyllophora pseudoceranoides*, 8.0 m BCD, western end of Worthing Lumps, 15.10.1994 (BS38).

460,140,43 from algae (mainly *Plocamium cartilagineum*), 0.9 m BCD, Seaford Head Gullies, 25.6.1995 (BS58).

Notes.

1. BS91 specimens examined by MC and identified as a new species close to *E. californicum* Lang, 1965 and *E. barbicauda* Bozic, 1978.

2. Frequently occurring as a numerically dominant/subdominant species amongst sublittoral algae and hydroids (see appendix for examples of species assemblages).

3. Length: 15.10.1994 (BS38) females 350-420 µm (mean 380 µm, $n = 30$), males 280-310 µm (mean 300 µm, $n = 20$); 25.6.1995 (BS58) females 420-480 µm (mean 459 µm, $n = 10$), males 340-370 µm (mean 351 µm, $n = 10$).

Halectinosoma angulifrons (Sars, 1919) [Clément & Moore, 1995]

1,0,0 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Halectinosoma argyllensis Clément & Moore, 1995 [Clément & Moore, 1995]

0,0,1 from dredged silt, 17 m BCD, off Seaford Head, 4.7.1993 (haul 6).

Twice from silt-smothered algal/bryozoan turf, Outer Mulberry: 15,0,1, 5.0 m BCD, 21.8.1994 (BS27); 1,0,0, 6.0 m BCD, 21.5.1995 (BS54).

Halectinosoma brunneum (Brady, 1905) [Clément & Moore, 1995]

1,0,0 from *Polysiphonia fucoides*, lower intertidal, 1.7 m ACD, Roedean, Brighton, 15.9.1993.

22 records from a variety of sublittoral mostly silty samples (including algae, hydroids, algal/bryozoan and hydroid/bryozoan turf, gravel, fine sand (1,0,0, BS70), mixed sediment), 2.2-21.2 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS5, 9, 15, 17, 19, 25, 27, 31, 36, 54, 61, 63, 67, 70, 71, 79, 81, 82, 92, 97, 100, 102). Adults per sample, 1-7 (10 samples single specimens only), with a higher number as follows:

13,0,4 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

Halectinosoma canaliculatum (Por, 1964) [Clément & Moore, 1995]

Three dredged records, 13-15 m BCD, Peacehaven to Cuckmere Haven, 4.7.1993: 1,0,0 from hydroids/erect bryozoans scraped from cobbles (haul 2); 1,0,0 from shell gravel (haul 8); 3,0,0 from muddy silt with a coarse shell fraction (haul 9).

21 records from a variety of sublittoral samples (including sand (9 records), gravel, silt, mixed sediment, hydroids (1,0,0, BS35), algae with entrapped silty sand (1,0,0, BS63)), 2.2-26.8 m BCD, SE of Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS6-8, 16, 17, 26, 35, 36, 43, 45, 48, 51, 52, 57, 63, 64, 68-70, 95). Adults per sample, 1-9 (14 samples less than 5), with higher numbers from four samples as follows:

9,0,7 from mixed sediment (shell gravel/sand/silt), 8.1-9.6 m BCD, Palace (Brighton) Pier Reef, 17.7.1994 (BS17).

12,0,8 from fine sand, 6.2 m BCD, E of Belle Tote, Beachy Head, 24.6.1995 (BS57).

75,4,24 from fine sand (with a few small bivalve shells and c. 4-5% shell fragments), 11.2 m BCD, 5 km SSE of Brighton Marina, 22.7.1995 (BS64).

36,0,16 from fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (BS68).

Note.

1,0,0 in the act of predation clasping an harpacticoid copepodite stage 1 (BS95).

Halectinosoma cooperatum Bodin, Bodiou & Soyer, 1971

30 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan and hydroid/bryozoan turf, gravel, mixed sediment), 0.9-26.8 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS10-12, 20, 24-27, 29-31, 36, 54, 55, 58, 60, 61, 63, 67, 69, 71, 79, 81, 82, 90, 95, 97, 98, 100, 102). Adults per sample, 1-18 (19 samples less than 5), with a higher number as follows:

26,7,6 from silt-smothered algal/bryozoan turf, 5.0 m BCD, Outer Mulberry, 21.8.1994 (BS27).

Note.

Specimens from BS27, 54 and 102 examined and identified by MC who has found this species at various localities in Scotland, Isle of Man and Bridport.

Halectinosoma denticulatum Clément & Moore, 1995 [Clément & Moore, 1995]

Twice from silt-smothered algal/bryozoan turf, Outer Mulberry: 2,0,0, 5.0 m BCD, 21.8.1994 (BS27); 1,0,0, 6.0 m BCD, 21.5.1995 (BS54).

Halectinosoma herdmani (T. & A. Scott, 1896) [Huys & Bodin, 1997; Clément & Moore, 2000]

Three dredged records, 12-17 m BCD, Newhaven to Cuckmere Haven, 4.7.1993: 0,0,4 from silt (haul 6); 3,0,0 from muddy silt with a coarse shell fraction (haul 9); 1,0,0 from muddy shell gravel (haul 10).

20 records from a variety of sublittoral samples (including sand (12 records), gravel, silt, mixed sediment, algae with basally entrapped sand (1,1,1, BS88), silt-smothered algal/bryozoan turf (3,0,0, BS97)), 6.2-21.5 m BCD, SE of Pagham village to Beachy Head, 1994, 1995, 1997 (BS7, 8, 17, 36, 43, 45-48, 50-52, 57, 64, 67-69, 87, 88, 97). Adults per sample, 1-7, with higher numbers from three samples as follows:

16,3,8 from fine sand, 6.2 m BCD, E of Belle Tote, Beachy Head, 24.6.1995 (BS57).

211,47,25 from fine sand (with a few small bivalve shells and c. 4-5% shell fragments), 11.2 m BCD, 5 km SSE of Brighton Marina, 22.7.1995 (BS64).

169,10,19 from fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (BS68).

Halectinosoma mixtum (Sars, 1904) (Syn.= *H. rouchi* Soyer, 1973)

2,0,0 from silty gravel, 10.0 m BCD, NE of Palace (Brighton) Pier Reef, 16.9.1995 (BS71).

6,1,2 from mixed sediment (gravel/sand/silt), 4.0-4.9 m BCD, off the Seven Sisters, 14.10.1995 (BS82).

Note.

Identified by MC who has found this species at 11 localities in Scotland and four localities in England.

***Halectinosoma paradistinctum* Soyer, 1973**

5,0,1 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Note.

Identified by MC who has found this species at six localities around Scotland, one for Isle of Man and two localities in England.

***Halectinosoma spinicauda* (Wells, 1961) (Syn.= *H. pterinum* Moore, 1974)**

2,0,0 from fine sand, 6.2 m BCD, E of Belle Tote, Beachy Head, 24.6.1995 (BS57).

Note.

Identified by MC who has found this species at various localities around the British Isles and considers it should be transferred to *Pseudobradya*.

***Halectinosoma tenuireme* (Scott T. & A., 1894)**

1,0,0 from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

Note.

Identified by MC.

***Halectinosoma* sp. A**

1,0,0 from medium/coarse sand, 16.9 m BCD, 4 km S of Peacehaven, 7.5.1995 (BS51).

2,1,0 from fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (BS68).

Notes.

1. Examined and identified by MC as a new species close to *H. inopinatum* (Por, 1964).
2. Length: 670 µm (BS51); 640 µm (ovigerous) and 740 µm (BS68).

***Halophytophilus fusiformis* Brian, 1918**

1,0,0 from mixed material (including red algae, *Tubularia indivisa*, *Lichenopora radiata*, *Flustra foliacea*), 8.0-11.6 m BCD, Worthing Lumps, 3.9.1994 (BS30).

Note.

Identified by MC. Presumed first British record.

***Halophytophilus* sp. A**

1,0,0 from mixed material (including red algae, *Tubularia indivisa*, *Lichenopora radiata*, *Flustra foliacea*), 8.0-11.6 m BCD, Worthing Lumps, 3.9.1994 (BS30).

Notes.

1. Identified by MC as a new species similar to *H. fusiformis* Brian, 1918, but furca as long as wide.
2. Length 325 µm.

***Halophytophilus* sp. B**

22,0,5 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Notes.

1. Identified by MC as a new species, P1 enp-1 1.5x longer than exp.
2. Length: females 285-310 µm; males 255 and 260 µm (only two measured).

***Halophytophilus* sp. C**

6,1,2 in company with *Halophytophilus* sp. B 22,0,5 above, 7.9.1997 (BS102).

Notes.

1. Identified by MC as a new species similar to *H. similis* Lang, 1948, but P1 enp-1 much longer.
2. Length: females 340-360 µm; males 305 and 310 µm.

***Halophytophilus* sp. D**

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.8-0.6 m ACD, Roedean, Brighton, January, March, October-December 1992 and May-November 1993. Adults per sample, 1-7, with higher numbers up to 20 encountered July-October 1993 (probably under-recorded 1992).

Three dredged records, 13-17 m BCD, Peacehaven to Cuckmere Haven, 4.7.1993: 1,0,0 from hydroids/erect bryozoans scraped from cobbles (haul 2); 1 pair from silt (haul 6); 1,1,0 from muddy silt with a coarse shell fraction (haul 9).

56 records from a variety of sublittoral samples (including algae, hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf, gravel, sand (1,0,0, BS57)), 0.7-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS2, 8-11, 13-15, 18-21, 24-27, 29-32, 34, 36, 53-63, 65-67, 69, 71, 73, 74, 77, 79-81, 83, 86, 88, 90-92, 96-102). Adults per sample, 1-20 (30 samples 1-5), with higher numbers from BS9, 10, 24, 27, 31, 60, 61, 81, 102, the three highest being:

25,10,2 + 2 pairs from *Phyllophora crispa* (supporting epiphytic *Plocamium cartilagineum* and other algae, and the lower parts heavily encrusted with *Electra pilosa* and supporting densely packed *Mytilus edulis* (5-15 mm long)), 6.1-7.4 m BCD, Looe Gate, 2.7.1994 (BS10).

39,5,1 from silt-laden hydroid (dominant)/bryozoan turf on a flint cobble, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS61).

35,1,10 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Notes.

1. Specimens from the intertidal (15.9.1993, 13.10.1993), BS10 and 27 examined and identified by MC as a new species very similar to *H. aberrans* Wells & Rao, 1987.
2. Length: females 260-380 µm; males 210-290 µm.

Hastigerella leptoderma (Klie, 1929) [Mielke, 1975 & 1981]

2,0,1 from fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (BS68).

***Hastigerella* sp. B**

7,3,5 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

1,0,0 from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

Notes.

1. Identified by MC as a new species.
2. Length: females 385-570 µm; males 450-550 µm.

(?) ***Hastigerella* sp. C**

0,0,3 in company with *Hastigerella* sp, B 7,3,5 above, 13.7.1997 (BS95).

Note.

Examined by MC, uncertain if *Hastigerella*, possibly males of a species related to *Halectinosoma tenuireme* (Scott T. & A., 1894).

Peltobradya bryozoophila Médioni & Soyer, 1967 [Médioni & Soyer, 1967]

5,1,2 presumed associated with *Lichenopora radiata* (Audouin), the only bryozoan present in mixed material (including red algae and the hydroid *Tubularia indivisa*), 6.7-11.4 m BCD, Worthing Lumps, 3.9.1994 (BS29).

6,0,0 again presumed associated with *Lichenopora radiata*, although possibly with *Flustra foliacea*, both present in mixed material (including red algae and *Tubularia indivisa*), 8.0-11.6 m BCD, Worthing Lumps, 3.9.1994 (BS30).

26,5,11 associated with *Cellepora pumicosa* (Pallas) encrusting a cobble, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Note.

BS102 specimens examined and confirmed by MC. Presumed first British record. Médioni & Soyer's Banyuls-sur-Mer specimens in association with *Schizomavella linearis* (Hassal).

Pseudobradya beduina beduina Monard, 1935

Recorded from *Polysiphonia fucoides* (one exception indicated), lower intertidal, 1.7-0.6 m ACD, Roedean, Brighton, April, May, June (4,3,1, Ectocarpales indet.), October 1992 and April-November 1993. Adults per sample, 1-17, apart from 26,11,4 + 1 pair, the *P. fucoides* from a sandy-bottomed pool, 1.7 m ACD, 6.5.1993.

16 records from a variety of sublittoral samples (including sand, silt, mixed sediment, algae, silt-smothered algal/bryozoan turf), 0.7-10.4 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS16, 17, 25, 26, 41,

43, 45, 57, 63, 69, 70, 72, 82, 83, 92, 97). Adults per sample, 1-4, with higher numbers from five samples as follows:

5,0,11 + 1 pair from fine sand, 8.2 m BCD, 2 km SSE of Roedean School, Brighton, 6.5.1995 (BS43).

218,42,91 + 18 pairs from fine sand, 6.5 m BCD, 2 km SSE of Roedean School, Brighton, 6.5.1995 (BS45).

94,14,91 + 2 pairs from algae with entrapped silty sand (*Gracilaria* sp. and *Plocamium cartilagineum* co-dominant), 2.2 m BCD, S of Peacehaven, 22.7.1995 (BS63).

32,11,54 + 1 pair from a mixed sample of silt and several flints (one supporting barnacles and *Crepidula fornicata*), 9.8-10.4 m BCD, 2 km SSE of Brighton Marina, 16.9.1995 (BS69).

30,9,28 + 6 pairs from mixed sediment (gravel/sand/silt), 4.0-4.9 m BCD, off the Seven Sisters, 14.10.1995 (BS82).

Note.

BS45 specimens examined and identified by MC who has found this species at various localities around the British Isles.

Pseudobradia fusca (T. & A. Scott, 1894) [Sars, 1910; Huys *et al.*, 1996]

1,0,0 from the hydroid *Halecium halecinum* (a rather silty sample), 8.6-9.7 m BCD, SW of Looe Gate, 3.7.1994 (BS14).

1,1,0 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

1,0,0 from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

Pseudobradia hirsuta (T. & A. Scott, 1894) [Sars, 1910; Moore, 1976b]

1,0,0 from dredged shell gravel, 12 m BCD, off Peacehaven, 4.7.1993 (haul 1).

1,0,0 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

1,0,0 from a mixed sample of silt and several flints (one supporting barnacles and *Crepidula fornicata*), 9.8-10.4 m BCD, 2 km SSE of Brighton Marina, 16.9.1995 (BS69).

Pseudobradia minor (T. & A. Scott, 1894) [Sars, 1904]

Five dredged records, 12-17 m BCD, Peacehaven to Cuckmere Haven, 4.7.1993: 2,0,0 from shell gravel (haul 1); 4,2,1 from silt (haul 6); 4,0,0 from shell gravel (haul 8); 2,0,0 from muddy silt with a coarse shell fraction (haul 9); 3,0,2 from muddy shell gravel (haul 10).

37 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan and hydroid bryozoan turf, gravel, sand, silt), 0.9-22.2 m BCD, Selsey Bill to E of Eastbourne, 1994, 1995, 1997 (BS6, 7, 19, 20, 24, 27, 28, 30, 31, 36, 48, 51, 54, 55, 57, 58, 60-64, 66-71, 79, 81, 82, 88, 90, 91, 96, 97, 100, 102). Adults per sample, 1-26 (23 samples 1-7), with higher numbers from five samples as follows:

Three records from silt-smothered algal/bryozoan turf, Outer Mulberry: 72,0,2, 5.0 m BCD, 21.8.1994 (BS27); 26,3,32 + 7 pairs, 6.0 m BCD, 21.5.1995 (BS54); 69,0,11, 6.4 m BCD, 27.7.1997 (BS97).

253,2,22 + 1 pair from fine sand (with a few small bivalve shells and c. 4-5% shell fragments), 11.2 m BCD, 5 km SSE of Brighton Marina, 22.7.1995 (BS64).

62,1,2 from a silty sandy mix of mussel clumps (young *Mytilus edulis*) and *Molgula manhattensis* aggregations, 12.1-12.6 m BCD, Head Ledge, Beachy Head, 14.10.1995 (BS81).

Note.

Specimens from BS54 and 97 examined by MC who has found this species at various localities around the British Isles.

Pseudobradya rhea Bodin, 1979 [Bodin, 1979]

Two dredged records, 4.7.1993: 1,0,1 from silt, 17 m BCD, off Seaford Head (haul 6); 5,0,0 from muddy silt with a coarse shell fraction, 13 m BCD, Cuckmere Haven (haul 9).

10 records from sublittoral sand (eight from fine, two from medium (0,0,1, BS52; 3,1,0, BS94)), and one record from red algae with entrapped silty sand (2,0,1, BS63), 2.2-26.8 m BCD, SE of Selsey Bill to Beachy Head, 1995, 1997 (BS46-50, 52, 57, 63, 64, 68, 94). Adults per sample, 1-3, with higher numbers from two samples as follows:

6,1,0 from fine sand, 9.0 m BCD, SE of Palace (Brighton) Pier Reef, 6.5.1995 (BS48).

71,0,11 from fine sand (with a few small bivalve shells and c. 4-5% shell fragments), 11.2 m BCD, 5 km SSE of Brighton Marina, 22.7.1995 (BS64).

Note.

BS64 specimens examined by MC who has found this species at various localities around the British Isles.

Pseudobradya similis (T. & A. Scott, 1894) [Sars, 1904]

1,0,0 from *Polysiphonia fucooides*, lower intertidal, 0.5 m ACD, Roedean, Brighton, 8.4.1993.

1,0,0 from dredged silt, 17 m BCD, off Seaford Head, 4.7.1993 (haul 6).

14 records from a variety of sublittoral samples (silt-smothered algal/bryozoan turf, gravel, silt, mixed sediment, red algae attached to pebbles (1,0,0, BS20)), 4.0-21.2 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS5-8, 20, 27, 36, 54, 69, 71, 79, 81, 82, 97). Adults per sample, 1-6 (eight samples single specimens only), the two highest numbers being:

4,0,0 from silty gravel, 10.0 m BCD, NE of Palace (Brighton) Pier Reef, 16.9.1995 (BS71).

5,0,1 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

***Pseudobradya* sp. A**

208,10,277 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Notes.

1. Identified as an undescribed species closely related to *P. minor* (T. & A. Scott, 1894) by MC who has found this species at various localities around the British Isles.

2. Length: females 460-570 µm; males 350-385 µm.

***Sigmatidium* sp. A**

Six sublittoral records:

1,0,0 from mixed algae (including *Calliblepharis ciliata* (dominant) and *Plocamium cartilagineum*), 4.1 m BCD, 1.5 km SSE of Roedean School, Brighton, 6.5.1995 (BS41).

1,0,0 from mixed algae (including *Gracilaria* sp. (mainly) and *Rhodomenia holmesii*), 4.0-4.9 m BCD, western vicinity of Brighton Marina, 22.9.1995 (BS80).

21,0,6 from mixed algae with basally entrapped sand (including *Plocamium cartilagineum*, *Heterosiphonia plumosa*, *Cladostephus spongiosus*, *Taonia atomaria*), 6.5 m BCD, Outer Mulberry, 12.7.1997 (BS88).

1,0,0 from a mixed sample of algae (including *Ceramium* sp., *Cryptopleura ramosa*, Ectocarpales indet.) and bryozoans (*Alcyonidium diaphanum* and *Flustra foliacea*), 13.8 m BCD, East Bank, 13.7.1997 (BS96).

1,0,0 from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

4,0,1 from mixed algae (including *Calliblepharis ciliata*, *Plocamium cartilagineum*, *Spyridia filamentosa*, *Dictyota dichotoma*), 4.0 m BCD, 5 km S of Selsey Bill, 7.9.1997 (BS101).

Notes.

1. Specimens from BS88 and 101 examined and identified by MC as a new species.
2. Length: females 230-265 μm ; males 215-220 μm .

***Sigmatidium* sp. B**

Three sublittoral records:

1,0,0 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

1,0,0 in company with *Sigmatidium* sp. A 1,0,0 above, 6.9.1997 (BS100).

9,0,11 + 2 pairs from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Notes.

1. BS102 specimens examined and identified by MC as a new species.
2. Length: females 225-245 μm ; males 210-215 μm .

***Sigmatidium* sp. C**

Single specimens twice:

0,0,1 from silty hydroids (mainly *Nemertesia antennina*), 6.5 m BCD, SW of Birling Gap, 24.6.1995 (BS55).

0,0,1 in company with *Sigmatidium* sp. B 9,0,11 + 2 pairs above, 7.9.1997 (BS102).

Notes.

1. Examined by MC, probably a new species.
2. Length: 210 μm (BS55); 220 μm (BS102).

Family **EUTERPINIDAE** Brian, 1921

Euterpina acutifrons (Dana, 1848) [Huys *et al.*, 1996]

22 records of this planktonic species from a variety of benthic samples (including algae, hydroids, erect bryozoans, sand), 2.2-22.2 m BCD, SE of Pagham village (Outer Mulberry) to E of Eastbourne, 1994, 1995, 1997 (BS2, 19-21, 23-26, 33-35, 41, 49, 55, 59, 63, 64, 66, 70, 80, 81, 96). Adults per sample, 1-4 (13 samples single specimens only (including 0,0,1(large morph) from BS96, the sole 1997 record)), three examples as follows:

1,0,2 (large and small morph males) from *Obelia longissima*, 8.5 m BCD, 4 km S of Shoreham, 1.10.1994 (BS34).

2,0,1 (large morph male) from mixed algae (including *Calliblepharis ciliata* (dominant) and *Plocamium cartilagineum*), 4.1 m BCD, 1.5 km SSE of Roedean School, Brighton, 6.5.1995 (BS41).

2,0,1 (small morph male) from fine sand (slightly silty), 5.3-5.8 m BCD, 1 km SE of Brighton Marina, 16.9.1995 (BS70).

Family **HAMONDIIDAE** Huys, 1990

Ambunguipes rufocincta (Norman in Brady, 1880) [Huys, 1990]

Six records from lower intertidal algae, 1.9-0.7 m ACD, Roedean, Brighton: 1,1,0, *Polysiphonia fucooides*, 16.4.1992; 0,0,1, Ectocarpales indet., 3.5.1992; 1,0,4, Ectocarpales indet., 1.6.1992; 1,0,0, *Cladophora* sp., 1.7.1992; 0,0,1, *P. fucooides*, 27.9.1992; 0,0,1, *P. fucooides*, 8.12.1992.

Three records from dredged shell gravel, 12-23 m BCD, Peacehaven to Cuckmere Haven, 4.7.1993: 1,0,1 (haul 1); 1,1,0 (haul 3); 0,0,3 (haul 8).

72 records from a variety of sublittoral samples (including algae, hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf, stones with attached/encrusting growths, gravel), 0.7-26.8 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS1, 3, 5, 8, 9-15, 18-39, 41, 53-55, 58-63, 65-67, 72-81, 83, 86, 88, 90-93, 95-102). Adults per sample, 1-81 (46 samples less than 20), with higher numbers (154-587) from four samples as follows:

50,2,104 from a silty sample of algae (*Calliblepharis ciliata*, *Brongniartella byssoides*) attached to flint pebbles, 10.0 m BCD, 7 km S of Worthing, 30.7.1994 (BS19).

73,13,113 from silt-laden hydroids (including *Hydrallmania falcata*, *Rhizocaulus verticillatus*, *Obelia longissima*), 19.3 m BCD, 4 km S of Seaford, 23.7.1995 (BS67).

276,5,311, the dominant harpacticoid, from a mixed sample of algae (including *Ceramium* sp., *Cryptopleura ramosa*, Ectocarpales indet.) and bryozoans (*Alcyonidium diaphanum* and *Flustra foliacea*), 13.8 m BCD, East Bank, 13.7.1997 (BS96).

77,19,94 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Family **HARPACTICIDAE** Dana, 1846

Harpacticus chelififer (O. F. Müller, 1776) [Sars, 1904; Huys *et al.*, 1996]

Recorded from lower intertidal algae (perennial *Polysiphonia fucoides* and ephemeral (spring-summer) Ectocarpales indet. and *Cladophora* sp.), 1.7-0.6 m ACD, Roedean, Brighton, March-July, October-December 1992. Adults per sample, 1-7, maximal May.

Eight records from sublittoral algae, 1.0-6.0 m BCD, Selsey Bill to Worthing, 1994, 1995, 1997 (BS23, 37, 53, 54, 77, 90, 91, 101). Adults per sample, 1-9, save BS90, 91 and 101 with higher numbers as follows:

20,1,6 from mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae, mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 13.7.1997 (BS90).

53,9,27 from mixed algae (including *Calliblepharis ciliata*, *Cryptopleura ramosa*, *Halopithys incurvus*, *Cladostephus spongiosus*), 1.6 m BCD, W of Mixon Hole, 13.7.1997 (BS91).

27,5,3 from mixed algae (including *Calliblepharis ciliata*, *Plocamium cartilagineum*, *Spyridia filamentosa*, *Dictyota dichotoma*), 4.0 m BCD, 5 km S of Selsey Bill, 7.9.1997 (BS101).

Harpacticus flexus Brady & Robertson, 1873 [Sars, 1904; Bodin, 1970; Huys *et al.*, 1996]

0,0,1 from silt-smothered algal/bryozoan turf, 5.0 m BCD, Outer Mulberry, 21.8.1994 (BS27).

3,0,5 from fine sand (slightly silty), 5.3-5.8 m BCD, 1 km SE of Brighton Marina, 16.9.1995 (BS70).

Harpacticus giesbrechti Klie, 1927 [Huys *et al.*, 1996; (RH, 29.12.1989: several 1983 Brighton intertidal specimens (Ventham, 1990))]

Three records from lower intertidal algae, Roedean, Brighton, 3.5.1992: 1,1,0, Ectocarpales indet., 1.3 m ACD; 1,1,0 and 1,0,0, *Polysiphonia fucoides*, 1.1 and 0.8 m ACD respectively.

Three sublittoral records:

3,1,1 from mixed algae (including *Heterosiphonia plumosa* and *Brongniartella byssoides*), 4.5 m BCD, Outer Mulberry, 31.7.1994 (BS23).

16,2,4 from mixed algae (including *Halurus equisetifolius*, *Heterosiphonia plumosa* (dominant), *Cryptopleura ramosa*), 3.6 m BCD, Mixon Hole, 17.9.1995 (BS77).

48,6,14 + 1 pair from mixed algae (including *Calliblepharis ciliata*, *Cystoclonium purpureum*, *Chondrus crispus*, *Rhodomela confervoides*), 2.6-3.8 m BCD, 2 km E of Selsey Bill, 6.9.1997 (BS99).

Harpacticus littoralis Sars, 1910 [Sars, 1910; Lang, 1948; Huys *et al.*, 1996]

1,1,0 from mixed sediment (shell gravel/sand/silt), 8.1-9.6 m BCD, Palace (Brighton) Pier Reef, 17.7.1994 (BS16).

Harpacticus obscurus T. Scott, 1895 [Sars, 1904 as *H. gracilis*; Lang, 1948; Huys *et al.*, 1996]

Recorded from lower intertidal algae (perennial *Polysiphonia fucoides* and ephemeral (spring-summer) Ectocarpales indet. and *Cladophora* sp.), 2.3-0.6 m ACD, Roedean, Brighton, March-August, October-December 1992. An abundant and dominant phytal species April-July, especially amongst Ectocarpales indet.

45 records from a variety of sublittoral samples (algae (predominantly), hydroids, erect bryozoans, gravel), 1.0-13.8 m BCD (plus one record from a greater depth, viz. 5,1,0 from hydroids, 19.2 m BCD, Mixon Hole, 17.9.1995 (BS78)), Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS12, 18-23, 25-38, 41, 53-55, 60, 62, 63, 72-74, 77, 78, 80, 83, 86, 90-92, 96-101). Adults per sample, 1-197 (23 records 1-20), with higher numbers from three samples as follows:

605,175,113 + 5 pairs from mixed algae co-dominated by *Plocamium cartilagineum* and *Ceramium* sp., 2.4 m BCD, 2 km SSW of Angmering-on Sea, 30.7.1994 (BS22).

628,284,213 + 1 pair from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

387,24,32 from *Heterosiphonia plumosa*, 6.7 m BCD, South-West Rocks, 1.10.1994 (BS33).

Harpacticus uniremis uniremis Kröyer, 1842 [Sars, 1904; Lang, 1948; Huys *et al.*, 1996]

Four records from *Polysiphonia fucoides* and two from Ectocarpales indet. (indicated), lower intertidal, 1.6-0.9 m ACD, Roedean, Brighton: 5,5,5, 16.4.1992; 3,0,3 and 2,0,3, 3.5.1992; 2,0,7 + 1 pair and 2,0,7, both from Ectocarpales indet., 3.5.1992; 1,0,0, 8.12.1992.

Two sublittoral records:

1,0,0 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

2,0,0 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

***Perissocope* sp. A** [The rare unnamed species figured by Hamond in Huys *et al.*, 1996]

5,0,0 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Note.

Recorded by Moore (1973) amongst *Laminaria hyperborea* holdfasts, 1-5 m depth, St. Abbs Head and Burniston, north-east England.

Zaus caeruleus Campbell, 1929 [Huys *et al.*, 1996; (RH, 9.9.1999)]

2,0,0 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

6,0,0 from mixed algae (including *Calliblepharis ciliata*, *Cystoclonium purpureum*, *Chondrus crispus*, *Rhodomela confervoides*), 2.6-3.8 m BCD, 2 km E of Selsey Bill, 6.9.1997 (BS99).

21,0,2 from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

Note.

Principally an Arctic north-eastern Pacific species but recorded from Blakeney Harbour (Norfolk) and from Helgoland in the southern North Sea area (Huys *et al.*, 1996).

Zaus goodsiri Brady, 1880 [Sars, 1904; Huys *et al.*, 1996]

1,0,3 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Zaus spinatus spinatus Goodsir, 1845 [Sars, 1904; Huys *et al.*, 1996]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.9-0.4 m ACD, Roedean, Brighton, January-December 1992, and from ephemeral algae (Ectocarpales indet. and *Cladophora* sp.), 1.9-0.7 m ACD, June and July of the same year. A dominant species amongst *P. fucoides*, but scarce amongst ephemeral algae.

28 sublittoral records (21 from algae, five from material inclusive of algae, one from hydroids (2,0,0, BS55), one from hydroid/bryozoan turf (0,0,1, BS61)), 0.7-13.8 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS9-12, 18, 21-23, 37-39, 41, 53-55, 58, 61, 63, 77, 83, 86, 88, 90, 91, 93, 96, 99, 101). Adults per sample, 1-161 (20 records 1-26), with higher numbers from four samples as follows:

190,96,138 + 137 pairs from mixed algae (including *Calliblepharis ciliata* and filamentous rhodophytes), 3.2-4.0 m BCD, S of Jenny Ground, 2.7.1994 (BS11).

544,307,570 + 78 pairs from algae (mainly *Plocamium cartilagineum*), 0.9 m BCD, Seaford Head Gullies, 25.6.1995 (BS58).

193,75,142 + 5 pairs from algae with entrapped silty sand (*Gracilaria* sp. and *Plocamium cartilagineum* co-dominant), 2.2 m BCD, S of Peacehaven, 22.7.1995 (BS63).

204,87,121 + 14 pairs from mixed algae with basally entrapped sand (including *Plocamium cartilagineum*, *Heterosiphonia plumosa*, *Cladostephus spongiosus*, *Taonia atomaria*), 6.5 m BCD, Outer Mulberry, 12.7.1997 (BS88).

Family HUNTEMANNIIDAE Por, 1986

Pontopolites typicus T. Scott, 1894 [Sars, 1909]

1,0,0 from *Polysiphonia fucoides*, lower intertidal, 0.4 m ACD, Roedean, Brighton, 8.4.1993.

Two sublittoral records:

35,0,0 from silt-smothered algal/bryozoan turf, 5.0 m BCD, Outer Mulberry, 21.8.1994 (BS27).

1,0,0 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Family **LAOPHONTIDAE** T. Scott, 1905

Sub-family **Esolinae** Huys & Lee, 2000

Corbulaseta bulligera (Farran, 1913) [Huys & Lee, 2000]

4,1,0 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

Esola bulbifera (Norman, 1911) [Huys & Lee, 2000]

Five sublittoral records, single specimens only:

0,0,1 from a mixed sample of *Phyllophora pseudoceranoides* and *Flustra foliacea*, 8.8-10.8 m BCD, Spanner Reef, 30.7.1994 (BS18).

0,0,1 from silt-laden *Nemertesia antennina*, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS60).

1,1,0 from silty gravel, 10.0 m BCD, NE of Palace (Brighton) Pier Reef, 16.9.1995 (BS71).

1,0,0 from gravel, 6.0 m BCD, the 'Indiana' wreck, 13.7.1997 (BS92).

1,1,0 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Sub-family **Laophontinae** T. Scott, 1905

Asellopsis hispida Brady & Robertson, 1873 [Sars, 1908]

One dredged record: 1,0,0 from muddy silt with a coarse shell fraction, 13 m BCD, Cuckmere Haven, 4.7.1993 (haul 9).

22 records from sublittoral samples (including gravel, fine sand, silt, silt-smothered algal/bryozoan turf), 3.3-26.8 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS5-8, 36, 43-45, 48, 54, 57, 64, 68, 71, 79, 81, 87, 89, 95-97, 100). Adults per sample, 1-9, with higher numbers from two samples as follows:

31,0,0 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

22,0,1 + 1 pair from fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (BS68).

Asellopsis intermedia (T. Scott, 1895) [Lang, 1948; Bodin, 1970]

1,0,0 from *Polysiphonia fucoides*, lower intertidal, 0.5 m ACD, Roedean, Brighton, 8.4.1993.

Four dredged records, 12-17 m BCD, Peacehaven to Cuckmere Haven, 4.7.1993: 1,0,0 from shell gravel (haul 1); 0,0,1 from hydroids/erect bryozoans scraped from cobbles (haul 2); 1,0,0 from silt (haul 6); 1,0,1 from muddy silt with a coarse shell fraction (haul 9).

11 records from sublittoral samples (including sand (seven records), gravel, hydroids), 6.2-26.8 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS32, 34, 35, 51, 52, 57, 64, 68, 81, 94, 95). Adults per sample, 1-6, with higher numbers from two samples as follows:

12,6,0 from medium/coarse sand, 16.9 m BCD, 4 km S of Peacehaven, 7.5.1995 (BS51).

52,0,5 (in company with *A. hispida* 22,0,1 + 1 pair above) from fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (BS68).

***Coullia* sp. A** [Hamond, 1973c; Huys, 2009]

10 records from *Polysiphonia fucooides*, lower intertidal, 1.4-0.6 m ACD, Roedean, Brighton. Adults per sample, 1-2 (mostly single specimens), with total per occasion (from one or more samples) as follows: 1,0,0, 1.8.1992; 1,0,0, 8.12.1992; 1,0,0, 20.7.1993; 2,0,0 (from two samples), 13.10.1993; 3,0,0 (from three samples), 11.11.1993; 2,0,1 (from two samples), 27.11.1993.

16 sublittoral records (14 from algae, one from a mixed sample of *Phyllophora pseudoceranooides* and *Flustra foliacea* (2,2,1, BS18), one from algal/bryozoan turf (1,0,0, BS97)), 0.7-10.8 m BCD, Selsey Bill to SSW of Hove, 1994, 1995, 1997 (BS9, 12, 18, 23, 33, 38, 39, 53, 77, 83, 86, 88, 91, 97, 99, 101). Adults per sample, 1-6 (nine samples 1-3), with higher numbers from four samples from the Selsey Bill area as follows:

54,1,28 from mixed algae (including *Halurus equisetifolius*, *Heterosiphonia plumosa* (dominant), *Cryptopleura ramosa*), 3.6 m BCD, Mixon Hole, 17.9.1995 (BS77).

26,14,19 from mixed algae (including *Calliblepharis ciliata*, *Cryptopleura ramosa*, *Halopithys incurvus*, *Cladostephus spongiosus*), 1.6 m BCD, W of Mixon Hole, 13.7.1997 (BS91).

16,0,7 from mixed algae (including *Calliblepharis ciliata*, *Cystoclonium purpureum*, *Chondrus crispus*, *Rhodomela confervoides*), 2.6-3.8 m BCD, 2 km E of Selsey Bill, 6.9.1997 (BS99).

55,4,24 from mixed algae (including *Calliblepharis ciliata*, *Plocamium cartilagineum*, *Spyridia filamentosa*, *Dictyota dichotoma*), 4.0 m BCD, 5 km S of Selsey Bill, 7.9.1997 (BS101).

Notes.

1. Does not key out in Huys (2009) to species. Length: females 390-470 µm; males 350-390 µm.
2. Laophontid sp. L *q.v.* is an undescribed species of a genus related to *Coullia*.

Harrietella simulans (T. Scott, 1894) [Sars, 1920; Lang, 1948]

1,0,0 from *Polysiphonia fucooides*, lower intertidal, 1.2 m ACD, Roedean, Brighton, 11.11.1993.

Note.

An unexpected record of this common associate of wood-boring isopods of the genus *Limnoria* (Hicks, 1989; Gotto, 1993), there being no fixed wood in the vicinity of the sample location, although drift wood driven ashore by stormy autumn weather may well have been overlooked from which the specimen had been displaced. It could be speculated that, as a vagrant, it had associated itself with the common intertidal phytal isopod *Idotea granulosa* Rathke which was numerous in the sample.

Heterolaophonte brevipes Roe, 1958 [Roe, 1958; (RH, 17.2.1989)]

The continued presence of *H. brevipes*, first discovered associated with intertidal barnacles encrusting concrete groynes (and other artificial structures) at Roedean and Kemp Town, Brighton, 1983-1985 (Ventham, 1990), was confirmed as follows:

Recorded from barnacles (*Semibalanus balanoides*/sparse *Elminius modestus*) encrusting a concrete groyne (one of the groynes investigated 1983-1985), 5.1-2.3 m ACD, Kemp Town, Brighton, 10.1.1992. Adults per sample of c. 20-30 adult barnacles, 7-18, maximal at 4.1 m ACD.

A single record from *Polysiphonia fucoides*: 1,0,0, 1.5 m ACD, Roedean, Brighton, 15.9.1993.

Notes.

1. Also recorded from mats of the green alga *Blidingia minima* on groynes, 5.6-5.3 m ACD (MHWN = 5.1), Roedean and Kemp Town, Brighton, 1983 and 1984, adults per scraping from an area 5 x 2 cm, 1-2 (Ventham, 1990).

2. Presumed first British record having previously been found only in Ireland. Roe (1958) recorded it from the Dalkey (Co. Dublin) area in various habitats, ranging from *Lichina pygmaea* to the laminarian zone, with the greatest numbers in the high regions – barnacles were not sampled.

Heterolaophonte curvata curvata (Douwe, 1929) [Lang, 1948; (RH, 18.4.1993)]

Seven records from *Polysiphonia fucoides*, lower intertidal, 1.5-0.5 m ACD, Roedean, Brighton: 1,1,0, 23.1.1992; 1,0,0, 19.3.1992; 0,0,1, 1.8.1992; 0,0,1, 15.9.1993; 1,0,1 (twice) and 0,0,1, 13.10.1993.

Note.

Presumed first British record.

Heterolaophonte denticulata Roe, 1958 [Roe, 1958; Hamond, 1969; (RH, 27.1.1993)]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.8-0.7 m ACD, Roedean, Brighton, March, April, November, December 1992, June-November 1993. Adults per sample, 1-14 (mostly 1-5) save 16,3,23 + 8 pairs, 1.7 m ACD, 15.9.1993. 1,0,0 from *Ectocarpales* indet., 0.8 m ACD, 1.7.1992.

Five records from sublittoral algae, 1.0-4.0 m BCD, Selsey Bill to Worthing:

5,2,0 from mixed algae (including *Calliblepharis ciliata* (supporting dense epiphytic *Ceramium* sp.), *Plocamium cartilagineum*, *Cladostephus spongiosus*), 3.4 m BCD, W of Grass Banks, 2.10.1994 (BS37).

63,10,24 from mixed algae (including *Halurus equisetifolius*, *Heterosiphonia plumosa* (dominant), *Cryptopleura ramosa*), 3.6 m BCD, Mixon Hole, 17.9.1995 (BS77).

11,1,3 from mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae, mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 13.7.1997 (BS90).

16,7,24 from mixed algae (including *Calliblepharis ciliata*, *Cryptopleura ramosa*, *Halopithys incurvus*, *Cladostephus spongiosus*), 1.6 m BCD, W of Mixon Hole, 13.7.1997 (BS91).

5,1,2 from mixed algae (including *Calliblepharis ciliata*, *Plocamium cartilagineum*, *Spyridia filamentosa*, *Dictyota dichotoma*), 4.0 m BCD, 5 km S of Selsey Bill, 7.9.1997 (BS101).

Heterolaophonte longisetigera (Klie, 1950) [Dr R. Hamond's unpublished figures 1-24 kindly provided 20.1.1993]

Nine records from lower intertidal algae, 2.3-1.2 m ACD, Roedean, Brighton: 0,0,1 + 1 pair, 3,2,2 and 3,0,3 from three samples of *Ectocarpales* indet., 1.6.1992; 1,0,1 + 1 pair, 3,1,0 and 1,0,1 from *Ectocarpales* indet., 1.7.1992; 1,1,0 from *Ceramium* sp., 1.8.1992; 0,0,2 from *Polysiphonia fucoides*, 13.10.1993; 1,0,0 from *P. fucoides*, 27.11.1993.

Heterolaophonte minuta (Boeck, 1872) [Sars, 1908 as *Laophonte*; Lang, 1948]

Five records from the lower intertidal, 2.6-1.3 m ACD, Roedean, Brighton: 1,0,0 from a rock scraping (small algal/hydroid growths + detrital sandy sediment), 2.1.1992; the other four records from *Polysiphonia fucoides*: 4,0,0, 13.10.1993; 1,0,0 (twice), 11.11.1993; 1,0,0, 27.11.1993.

Heterolaophonte stroemii paraminuta Noodt, 1955 [Lang, 1965; (RH, 18.4.1993)]

Seven records from the lower intertidal, 2.6-1.2 m ACD, Roedean, Brighton: 1,0,0 from a rock scraping (small algal/hydroid growths + detrital sandy sediment), 2.1.1992; the other six records from *Polysiphonia fucoides*: 3,0,0, 2.1.1992; 3,0,1 (in company with *H. stroemii stroemii* 1,0,0), 13.10.1993; 3,0,0 and 1,0,0 (twice), 11.11.1993; 1,0,0, 27.11.1993.

Heterolaophonte stroemii stromii (Baird, 1834) [Sars, 1908 as *Laophonte*; (RH, 20.11.1994)]

Three records from *Polysiphonia fucoides*, lower intertidal, 1.8-0.8 m ACD, Roedean, Brighton: 0,0,4 and 0,0,2, 15.9.1993; 1,0,0 (in company with *H. stroemii paraminuta* 3,0,1), 13.10.1993.

Inermiphonte danversae (Hamond, 1969) [Hamond, 1969 as *Laophonte*; Hicks, 1982 as *Laophonte* (see note below); Huys & Lee, 2009]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.8-0.6 m ACD, Roedean, Brighton, November 1992 and April-November 1993. Adults per sample, 1-9 (mostly 1-2), the higher numbers occurring October and November 1993, chiefly the former.

A single sublittoral record: 0,0,1 from mixed algae with basally entrapped sand (including *Plocamium cartilagineum*, *Heterosiphonia plumosa*, *Cladostephus spongiosus*, *Taonia atomaria*), 6.5 m BCD, Outer Mulberry, 12.7.1997 (BS88).

Note.

Females conform to the description by Hamond (1969) but with spinules in irregular rows on the P5 beap. as noted by Hicks (1982). Males agree closely with the description by Hicks (1982) but with longer caudal rami, the ratio of length:basal width being 2.40:1 (similar to Hamond's and the present Sussex females) rather than 1.68:1.

Laophonte cf. baltica Klie, 1929 [Lang, 1948]

13 records from *Polysiphonia fucoides*, lower intertidal, 1.7-1.0 m ACD, Roedean, Brighton, all between July and November 1993. Adults per sample, 1-3 (mostly single specimens), with total per occasion (from one or more samples) as follows: 1,0,0, 20.7.1993; 2,0,1 (from three samples), 15.9.1993; 4,2,5 (from six samples), 13.10.1993; 1,0,1 (from two samples), 11.11.1993; 1,1,1, 27.11.1993.

Laophonte brevifurca Sars, 1920 [Sars, 1920; (RH, 9.9.1999)]

12 records from a variety of sublittoral samples (including algae, hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf), 0.9-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS1, 19,

24, 27, 54, 58, 61, 65, 78, 97, 98, 102). Adults per sample, 1-6, with higher numbers from four samples as follows:

14,0,2 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

Twice from silt-smothered algal/bryozoan turf, Outer Mulberry: 34,3,24, 5.0 m BCD, 21.8.1994 (BS27); 5,4,7, 6.0 m BCD, 21.5.1995 (BS54).

5,0,5 from algae (mainly *Plocamium cartilagineum*), 0.9 m BCD, Seaford Head Gullies, 25.6.1995 (BS58).

Note.

Presumed first British record.

Laophonte cornuta Philippi, 1840 [Sars, 1907]

Recorded from *Polysiphonia fucooides*, lower intertidal, 1.9-0.4 m ACD, Roedean, Brighton, January-December 1992, April-November 1993, and from Ectocarpales indet., 2.0-0.8 m ACD, July 1992. Adults per sample of *P. fucooides*, 1-14, and of Ectocarpales indet., 1-2.

1,0,0 from dredged shell gravel, 13 m BCD, Cuckmere Haven, 4.7.1993 (haul 8).

43 records from a variety of sublittoral samples (including algae, hydroids, erect bryozoans, algal/bryozoan turf, gravel), 0.7-19.6 m BCD, Selsey Bill to Seaford Head, 1994, 1995, 1997 (BS2, 11, 12, 18-23, 25-28, 30-32, 36-40, 53, 54, 58, 63, 72-74, 77, 78, 80, 83, 86, 88, 90-92, 96-99, 101, 102). Adults per sample, 1-52 (20 samples 1-5), with a higher number as follows:

55,14,66 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Laophonte elongata elongata Boeck, 1872 [Sars, 1908]

Four records from *Polysiphonia fucooides*, lower intertidal, 1.6-0.7 m ACD, Roedean, Brighton: 1,0,1, 18.8.1993; 0,0,1 (twice), 15.9.1993; 1,0,0, 11.11.1993.

43 records from a variety of sublittoral samples (including algae, hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf, stones with attached/encrusting growths), 0.9-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS9-12, 14, 15, 18-21, 23-27, 29, 30, 33, 34, 38, 53-55, 58-63, 65, 66, 72, 73, 78, 80, 81, 86, 88, 90, 97, 98, 101, 102). Adults per sample, 1-55 (24 samples 1-5), with higher numbers twice as follows:

481,190,376 + 1 pair (*L. elongata triarticulata* may well have been overlooked amongst these specimens) from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

37,5,42 + 1 pair (accompanied by *L. elongata triarticulata* 19,8,11) from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Laophonte elongata triarticulata Monard, 1928 [Lang, 1948; (RH, 18.4.1993)]

Four records from *Polysiphonia fucooides*, lower intertidal, 1.5-1.2 m ACD, Roedean, Brighton: 1,0,0 and 0,0,1, 8.12.1992; 1,0,0 (twice), 11.11.1993.

Nine records (in company with *L. elongata elongata* Boeck) from a variety of sublittoral samples (including algae, the hydroid *Nemertesia antennina*, heterogeneous material), 3.2-19.6 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS11, 12, 25, 30, 60, 73, 80, 81, 102). Single adults per sample save BS60 (outnumbering *L. elongata elongata*), 73 and 102 as follows:

17,8,12 + 3 pairs (*L. elongata elongata* 3,2,0) from silt-laden *Nemertesia antennina*, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS60).

3,0,2 (*L. elongata elongata* 4,1,8) from *Rhodymenia holmesii*, 3.6-4.1 m BCD, western vicinity of Brighton Marina, 16.9.1995 (BS73).

19,8,11 (*L. elongata elongata* 37,5,42 + 1 pair – see above), Whirlpool Hole, 7.9.1997 (BS102).

Laophonte inopinata T. Scott, 1892 [Sars, 1908].

1,0,0 from *Polysiphonia fucoides*, lower intertidal, 1.0 m ACD, Roedean, Brighton, 20.7.1993.

Laophonte inornata A. Scott, 1902 [Lang, 1948; Hamond, 1969; (RH, 18.4.1993)]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.8-0.4 m ACD, Roedean, Brighton, January-March, May, August, October, December 1992 and April-November 1993. Adults per sample, 1-5 (mostly 1-2).

35 records from a variety of sublittoral samples (including algae, hydroids, erect bryozoans, algal/bryozoan turf, stones with attached/encrusting growths, gravel), 0.7-19.6 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS9, 11, 12, 19-21, 25-31, 36, 38, 43, 54, 59-61, 63, 71-74, 78, 80-83, 86, 97-99, 102). Adults per sample, 1-6 (26 samples 1-3), with higher numbers from three samples as follows:

15,0,23 from algae (predominantly *Brongniartella byssoides*) attached to flint pebbles, 9.6 m BCD, 5 km S of Goring-by-Sea, 30.7.1994 (BS20).

22,2,13 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

18,0,5 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

Laophonte parvula Sars, 1908 [Sars, 1908; Lang, 1948; Hamond, 1969; (RH, 18.4.1993)]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.5-0.4 m ACD, Roedean, Brighton, January-March 1992 and April, June, October 1993. Adults per sample, 1-4 (mostly single specimens).

18 records from a variety of sublittoral samples (including algae, hydroids, erect bryozoans, algal/bryozoan turf, stones with attached/encrusting growths, gravel), 3.6-21.2 m BCD, Selsey Bill to Brighton, 1994, 1995, 1997 (BS2, 18-21, 27, 31, 32, 36, 54, 71, 73-75, 78, 79, 97, 102). Adults per sample, 1-4 (nine samples single specimens), with higher numbers from four samples as follows:

16,2,3 from algae (predominantly *Brongniartella byssoides*) attached to flint pebbles, 9.6 m BCD, 5 km S of Goring-by-Sea, 30.7.1994 (BS20).

Twice from silt-smothered algal/bryozoan turf, Outer Mulberry: 34,2,22, 5.0 m BCD, 21.8.1994 (BS27); 9,3,10, 6.4 m BCD, 27.7.1997 (BS97).

74,0,9 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

Note.

The female P5 exp., of all adequately examined specimens, bore six rather than the seven setae described by Sars (1908). In all of 41 re-examined specimens, these six setae were distributed exactly as found in three dissected specimens from West Runton, Norfolk by Hamond (1969, p. 6), the two outer margin proximal setae arising almost together and the seta below them missing.

Laophonte serrata (Claus, 1863) [Sars, 1907]

Three records from *Polysiphonia fucoides*, lower intertidal, 1.6-0.8 m ACD, Roedean, Brighton: 0,0,1, 1.6.1992; 1,0,0, 9.11.1992; 1,0,0, 15.9.1993.

41 records from a variety of sublittoral samples (including algae, hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf, stones with attached/encrusting growths), 0.7-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS9-15, 19-21, 23-27, 29, 30, 32, 34-37, 53-55, 58, 60-62, 65-67, 77, 82, 83, 86, 88, 96, 98, 99, 102). Adults per sample, 1-16 (33 samples 1-5), with higher numbers from two samples as follows:

32,0,5 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

117,0,35 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Laophonte thoracica Boeck, 1865 [Sars, 1907; (RH, 18.4.1993)]

Three records from *Polysiphonia fucoides*, lower intertidal, 1.7-0.7 m ACD, Roedean, Brighton: 0,0,1, 8.12.1992; 1,0,0, 18.8.1993; 0,0,1, 13.10.1993.

Six sublittoral records (three from algae, three from hydroids), 0.9-11.6 m BCD, SW of Hove to SSW of Hastings, 1994, 1995 (BS10, 15, 33, 58, 61, 65). Adults per sample, 1-3, with a higher number as follows:

12,3,5 from mixed hydroids (*Halecium halecinum* (supporting densely packed muddy amphipod tubes) and *Nemertesia antennina*), 10.5-11.5 m BCD, 'The Engine' (SSW of Hastings), 22.7.1995 (BS65).

Marbefia carthyi (Hamond, 1968) [Hamond, 1968 as *Pseudonychocamptus*; Huys & Lee, 2009]

11 records from sublittoral samples (hydroids, hydroid (dominant)/bryozoan turf, algae (0,0,2, BS33; 0,0,1, BS58)), 0.9-22.2 m BCD, S of Bognor Regis to SSW of Hastings, 1994, 1995 (BS24, 26, 33, 55, 56, 58-61, 65, 66). Adults per sample, 1-2, with higher numbers from three samples as follows:

5,3,5 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

6,4,7 from *Tubularia indivisa*, 3.8 m BCD, SW of Birling Gap, 24.6.1995 (BS56).

5,2,4 from silt-laden hydroid (dominant)/bryozoan turf on a flint cobble, 6.8 m BCD, E of Cuckmere Haven, 25.6.1995 (BS61).

Paralaophonte brevirostris (Claus, 1863) [Sars, 1908 as *Laophonte*]

Recorded from *Polysiphonia fucooides*, lower intertidal, 2.3-0.4 m ACD, Roedean, Brighton, January-December 1992, April-November 1993, and from ephemeral algae (Ectocarpales indet., *Cladophora* sp.), 2.0-0.8 m ACD, July, August 1992. Adults per sample of *P. fucooides*, 1-123 (maximal July-October, peaking September when a dominant species); adults per sample of ephemeral algae, 2-10.

Four dredged records, 13-23 m BCD, Seaford to Cuckmere Haven, 4.7.1993: 2,1,1 from shell gravel (haul 3); 1,0,0 from silt (haul 6); 2,1,0 from small hydroids scraped from stones (haul 7); 3,1,1 from shell gravel (haul 8).

76 records from a variety of sublittoral samples (including algae (most favoured), hydroids, erect bryozoans, algal/bryozoan and hydroid/bryozoan turf, stones with attached/encrusting growths, gravel, fine sand (rare)), 0.7-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994,1995,1997 (BS1-3, 8-15, 18-42, 45, 53-56, 58-68, 71-81, 83, 86, 88, 90, 91, 93, 96-102). Adults per sample, 1-174 (36 samples 1-25), with higher numbers (217-1562) from BS22, 31, 33, 37, 38, 63, 72-74, 77, 80, 83, 90, 91, 98, 99, the four highest being:

565,146,134 + 1 pair from mixed algae (including *Rhodomenia holmesii*, *Ceramium* sp., *Spyridia filamentosa*), 3.7-4.0 m BCD, western vicinity of Brighton Marina, 16.9.1995 (BS72).

1299,306,263 from mixed algae (including *Halurus equisetifolius*, *Heterosiphonia plumosa* (dominant), *Cryptopleura ramosa*), 3.6 m BCD, Mixon Hole, 17.9.1995 (BS77).

693,398,99 from mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae, mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 13.7.1997 (BS90).

668,155,216 from mixed algae (including *Calliblepharis ciliata*, *Cystoclonium purpureum*, *Chondrus crispus*, *Rhodomela confervoides*), 2.6-3.8 m BCD, 2 km E of Selsey Bill, 6.9.1997 (BS99).

Paralaophonte congenera congenera (Sars, 1908) [Sars, 1908 as *Laophonte*; Hamond, 1969; Huys & Lee, 2009]

Six records from *Polysiphonia fucooides*, lower intertidal, 1.5-0.6 m ACD, Roedean, Brighton: 1,0,0, 16.4.1992; 2,0,1, 8.4.1993; 2,1,2, 6.5.1993; 1,0,0, 20.6.1993; 0,0,2, 20.7.1993; 2,0,1, 13.10.1993.

18 records from a variety of sublittoral samples (including algae, hydroids, erect bryozoans, algal/bryozoan turf), 0.7-19.2 m BCD, Selsey Bill to Brighton, 1994, 1995, 1997 (BS12, 23, 27, 72-74, 77, 78, 80, 83, 86, 88, 90, 91, 96-99). Adults per sample, 1-18 (12 samples 1-9), with higher numbers from three samples as follows:

30,8,10 + 1 pair from mixed algae (including *Halurus equisetifolius*, *Heterosiphonia plumosa* (dominant), *Cryptopleura ramosa*), 3.6 m BCD, Mixon Hole, 17.9.1995 (BS77).

35,15,10 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

115,32,30 from mixed algae (including *Calliblepharis ciliata*, *Cystoclonium purpureum*, *Chondrus crispus*, *Rhodomela confervoides*), 2.6-3.8 m BCD, 2 km E of Selsey Bill, 6.9.1997 (BS99).

***Paralaophonte* sp. A** [(RH, 3.3.1994)]

Six dredged records, 12-23 m BCD, Peacehaven to Cuckmere Haven, 4.7.1993: 99,55,65 + 1 pair from shell gravel (haul 1); 3,3,3 from shell gravel (haul 3); 8,4,9 from shell gravel (haul 5); 8,3,8 from silt (haul 6); 0,0,1 from shell gravel (haul 8); 69,40,46 + 3 pairs from muddy shell gravel (haul 10).

Four sublittoral records, 4.1-14.8 m BCD, Hove to Saltdean:

1,0,0 from mixed algae (including *Calliblepharis ciliata* (dominant) and *Plocamium cartilagineum*), 4.1 m BCD, 1.5 km SSE of Roedean School, Brighton, 6.5.1995 (BS41).

2,2,0 from *Echinocardium cordatum* (a collection of empty tests, recently dead and moribund individuals from the surface of fine sand), 9.0 m BCD, SE of Palace (Brighton) Pier Reef, 6.5.1995 (BS49).

1,1,0 from medium sand, 14.8 m BCD, 3.5 km S of Saltdean, 7.5.1995 (BS52).

0,0,3 from *Calliblepharis ciliata*, 5.9-6.4 m BCD, S of Hove, 17.9.1995 (BS76).

Note.

A species close to *Paralaophonte brevirostris* which does not key out in Huys & Lee (2009). Length: females 550-620 µm (mean 590 µm, $n = 10$); males 460-500 µm (mean 483 µm, $n = 10$).

Paronychocamptus curticaudatus (Boeck, 1865) [Sars, 1908 as *Laophonte curticauda*]

1,0,0 and 2,0,0 from *Polysiphonia fucooides*, lower intertidal, 1.8 and 1.4 m ACD respectively, Roedean, Brighton, 13.10.1993.

Pilifera gracilis (T. Scott, 1903) [Lang, 1948 as *Pseudonychocamptus*; (RH, 20.11.1994)]

1,0,0 (twice) from *Polysiphonia fucooides*, lower intertidal, 1.4 and 1.3 m ACD, Roedean, Brighton, 13.10.1993.

Pseudonychocamptus koreni (Boeck, 1872) [Sars, 1908 as *Laophonte*; (RH, 20.11.1994)]

12 records from *Polysiphonia fucooides*, lower intertidal, 1.8-0.8 m ACD, Roedean, Brighton, September-November 1993. Adults per sample, 1-2 (nine single specimens), with total per occasion (from one or more samples) as follows: 2,0,5 (from six samples), 15.9.1993; 1,1,5 (from five samples), 13.10.1993; 0,0,1, 27.11.1993.

Pseudonychocamptus proximus (Sars, 1908) [Sars, 1908 as *Laophonte proxima*]

1,0,0 from sediment (black silt/mud/gravel) plus several small cockle shells, Widewater Lagoon, Shoreham, 20.9.1997 (WLS2).

Laophontinae (Laophontid spp. A, B & E-Q) requiring further examination:

Laophontid sp. A [(RH, 18.4.1993)]

12 records from *Polysiphonia fucooides*, lower intertidal, 1.8-0.6 m ACD, Roedean, Brighton. Adults per sample, 1-3 (mostly single specimens), with total per occasion (from one or more samples) as follows: 1,0,1, 2.1.1992; 1,0,0, 1.8.1992; 0,0,1, 20.7.1993; 1,0,0, 18.8.1993; 4,0,1 (from three samples), 13.10.1993; 2,0,1 (from three samples), 11.11.1993; 1,0,2 (from two samples), 27.11.1993.

Notes.

1. Very provisionally *Laophonte* of the *inornata*-group (Lang, 1948).
2. Length: females 500-570 µm; males 510-530 µm.

Laophontid sp. B

Four records from *Polysiphonia fucoides*, lower intertidal, 1.8-1.5 m ACD, Roedean, Brighton: 1,0,0, 2.1.1992; 1,0,0 and 0,0,1 (twice), 13.10.1993.

Note.

Length: females 450 µm (telescoped 1992 specimen) and 550 µm; males 380 µm and 410 µm.

Laophontid sp. E

1,0,1 from *Polysiphonia fucoides*, lower intertidal, 1.4 m ACD, Roedean, Brighton, 8.12.1992.

Note.

Length: female 435 µm; male 330 µm.

Laophontid sp. F [(RH, 20.11.1994)]

1,0,0 from *Polysiphonia fucoides*, lower intertidal, 0.9 m ACD, Roedean, Brighton, 8.4.1993.

Note.

A small but robust species, 410 µm in length. Colour brown (in dilute formalin).

Laophontid sp. G [(RH, 20.11.1994)]

1,0,0 from *Polysiphonia fucoides*, lower intertidal, 1.3 m ACD, Roedean, Brighton, 20.6.1993.

Note.

Length 480 µm.

Laophontid sp. H

Three records from *Polysiphonia fucoides*, lower intertidal, 1.7-1.2 m ACD, Roedean, Brighton: 1,0,0 and 0,0,1 from separate samples, 15.9.1993; 0,0,1, 27.11.1993.

Note.

Length: female 560 µm; both males 490 µm.

Laophontid sp. I

0,0,1 twice from *Polysiphonia fucoides*, lower intertidal, 1.4 m ACD, Roedean, Brighton, 13.10.1993.

Note.

Length: 400 and 410 µm.

Laophontid sp. J

Five sublittoral records:

7,2,4 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

1,0,0 from silt-laden hydroid (dominant)/bryozoan turf on a flint cobble, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS61).

4,2,1 from mixed hydroids (*Halecium halecinum* (supporting densely packed muddy amphipod tubes) and *Nemertesia antennina*), 10.5-11.5 m BCD, 'The Engine' (SSW of Hastings), 22.7.1995 (BS65).

1,0,2 from *Rhodymenia holmesii* (with a diversity of attached/encrusting growths on/among its stolons (including small hydroids)), 3.6-4.1 m BCD, western vicinity of Brighton Marina, 16.9.1995 (BS73).

0,0,1 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Note.

Length: females (three from BS24) 490-500 µm; males (three from BS24 and one from BS98) 390-410 µm.

Laophontid sp. K

1,0,1 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

Notes.

1. Female keys out to *Laophonte* of the *setosa*-group, but not to species (Lang, 1948).
2. Length of female, 500 µm.

Laophontid sp. L (? new genus and species) [Huys, 2009 – see note 1 below]

Four sublittoral records:

1,1,0 from silt-smothered algal/bryozoan turf, 6.0 m BCD, Outer Mulberry, 21.5.1995 (BS54).

0,0,5 from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

0,0,1 from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

5,0,3 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Notes.

1. A dorsoventrally depressed species related to the genus *Coullia*, its P2 enp. reduced to a small lobe devoid of setae, which does not key out using the key to laophontid genera with reduced P2 enp. provided by Huys (2009).
2. Length: female (one from BS102) 450 µm; male (one from BS102) 400 µm.

Laophontid sp. M

0,0,1 from silt-laden hydroid (dominant)/bryozoan turf on a flint cobble, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS61).

Note.

Body slender with divergent caudal rami *c.* four times as long as maximum width. Length 370 µm.

Laophontid sp. N

Four sublittoral records:

1,0,0 from *Nemertesia antennina* (+ a little *Rhodymenia holmesii*), 5.0-7.0 m BCD, N of Long Shoal (8 km E of Eastbourne), 22.7.1995 (BS66).

5,3,4 from mixed algae (including *Phyllophora pseudoceranoides*, *Heterosiphonia plumosa*, *Cryptopleura ramosa*, *Delesseria sanguinea*), 9.6 m BCD, 500 m NE of Outer Owers buoy, 12.7.1997 (BS86).

2,0,0 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

70,43,31 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Note.

Body depressed, the cephalothorax much the widest part. Length of female (BS66), 450 µm. Tip of P1 enp. claw abruptly bent at right angles. A distinctive species.

Laophontid sp. O

0,0,1 from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

Note.

Length 410 µm. Colour brown (in dilute formalin).

Laophontid sp. P & Laophontid sp. Q

0,0,1 (sp. P) and 0,0,1 (sp. Q) from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

Notes.

1. Sp. P: body depressed, length 500 µm.

2. Sp. Q: body slender, length 710 µm.

Family LAOPHONTOPSIDAE Huys & Willems, 1989

***Laophontopsis borealis* Huys & Willems, 1989 [Huys & Willems, 1989]**

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.5-0.4 m ACD, Roedean, Brighton, January-May, July, October-December 1992. Adults per sample, 1-3, with higher numbers up to 12 encountered January, February.

Seven dredged records, 12-23 m BCD, Peacehaven to Cuckmere Haven, 4.7.1993: 4,0,1 from hydroids/erect bryozoans scraped from cobbles (haul 2); 0,0,1 from shell gravel (haul 3); 5,0,3 from silt (haul 6); 2,0,0 from small hydroids scraped from stones (haul 7); 31,0,14 from shell gravel (haul 8); 2,0,10 from muddy silt with a coarse shell fraction (haul 9); 1,0,1 from muddy shell gravel (haul 10).

54 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan and hydroid/bryozoan turf, gravel, fine sand, silt, mixed sediment), 0.7-26.8 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS3, 5-17, 19, 24-27, 31, 33, 35, 36, 38, 43, 45, 48, 53-55, 60-62, 69, 71-75, 77, 78, 80-83, 85, 86, 90, 92, 95, 97, 98, 100, 102). Adults per sample, 1-32 (31 samples 1-5), with higher numbers from three samples as follows:

23,0,14 + 4 pairs from silt, 8.9-10.4 m BCD, the Outer Manors, 18.6.1994 (BS6).

117,0,19 from silty gravel, 10.0 m BCD, NE of Palace (Brighton) Pier Reef, 16.9.1995 (BS71).

68,0,42 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Note.

Incorrectly recorded as *Laophontopsis lamellifera* (Claus) in Ventham (1990).

Family LEPTASTACIDAE Lang, 1948

Two of the three species encountered require further examination and are represented by single specimens only (**Leptastacid sp. A**, 0,0,1, BS68; **Leptastacid sp. B**, 1,1,0, BS94); the third has been identified as follows:

Leptastacus laticaudatus Nicholls, 1935 [Huys, 1987]

Four sublittoral records:

3,0,0 from fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (BS68).

1,0,0 from sand, 6.5 m BCD, Outer Mulberry, 12.7.1997 (BS89).

60,10,6 from medium sand, 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS94).

1,0,0 from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

Family METIDAE Sars, 1910

Metis ignea ignea Philippi, 1843 [Sars, 1910; Lang, 1948]

Undetected 1992-1997. Three earlier records, lower intertidal, Roedean, Brighton (Ventham, 1990):

1,0,0 from a rock scraping (including young Chlorophyta (*Enteromorpha* sp., *Ulva lactuca*), the hydroid *Dynamena pumila* and sandy detritus), 2.6 m ACD, and 1,0,0 from a scraping from a collapsed section of a concrete groyne (barnacles (*Semibalanus balanoides*) and young ascidians (*Molgula* sp.)), 1.1 m ACD, both 1.12.1983; 1,0,0 from a vertical rock scraping (*Dynamena pumila* and the ascidian *Morchellium argus*), 1.2 m ACD, 2.3.1984.

Family **MIRACIIDAE** Dana, 1846

Sub-family **Diosaccinae** Sars, 1906

Amonardia normani (Brady, 1872) [Sars, 1906 as *Amphiascus similis*; Lang, 1948; (RH, 20.12.1989, earlier Brighton intertidal specimens – see note below)]

23 records from a variety of sublittoral samples (including algae, bryozoan turf, gravel), 1.0-26.8 m BCD, Selsey Bill to Worthing, 1994, 1995, 1997 (BS18-21, 23, 24, 27, 29, 30, 53, 54, 79, 86, 88, 90-92, 95-98, 100, 102). Adults per sample, 1-10 (mostly less than 5), with higher numbers from two samples as follows:

52,0,0 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

135,0,0 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Note.

Three earlier records (Ventham, 1990), lower intertidal, Roedean, Brighton: 1,0,0 from barnacles (supporting young *Enteromorpha* sp.), concrete groyne, 1.3 m ACD, 31.5.1984; 2,0,0 from *Polysiphonia fucoides*, 1.0 m ACD, 31.5.1984; 1,0,2 from Ectocarpales indet., 0.9 m ACD, 12.6.1984.

Amphiascoides debilis (Giesbrecht, 1881) [Sars, 1906 as *Amphiascus*; (RH, 20.11.1994)]

Recorded from lower intertidal algae (perennial *Polysiphonia fucoides* and ephemeral (spring-summer) Ectocarpales indet. and *Cladophora* sp.), 2.0-0.6 m ACD, Roedean, Brighton, January-December 1992 and April-November 1993. Adults per sample, 1-c. 20 (mostly less than 10), maximal September-November e.g. 15,3,5 from *Polysiphonia fucoides*, 1.5 m ACD, 15.9.1993.

A single lagoonal record: 1,0,0 (in company with *A. limicola* 3,1,0) from muddy algae (*Chaetomorpha* sp. and *Cladophora* sp. co-dominant), Widewater Lagoon, Shoreham, 20.9.1997 (WLS1).

Amphiascoides limicola (Brady, 1900) [Lang, 1948 as *Amphiascella*]

Three records from Widewater lagoon, Shoreham, 20.9.1997: 3,1,0 (in company with *A. debilis* 1,0,0) from muddy algae (*Chaetomorpha* sp. and *Cladophora* sp. co-dominant) (WLS1); 11,9,(1) from sediment (black silt/mud/gravel) plus several small cockle shells (WLS2); several specimens from muddy algae (*Enteromorpha* sp. and *Ulva* sp. co-dominant) attached to cockle shells (WLS6).

Note.

The synonymy of *A. limicola* with *A. debilis* proposed by Lorenzen (1969) was supported by Moore (1976b) who found transitional forms intermediate between the two, but Bodin (1997), having closely examined many specimens, considered that at least two different subspecies are involved. Transitional forms were undetected (though quite possibly overlooked) in Sussex samples, and the two 'species' have therefore been recorded separately.

Amphiascoides neglecta (Norman & T. Scott, 1905) [Sars, 1906 as *Amphiascus linearis*; Lang, 1948 as *Amphiascella*]

1,1,0 from mixed sediment (shell gravel/sand/silt), 8.1-9.6 m BCD, Palace (Brighton) Pier Reef, 17.7.1994 (BS17).

Amphiascoides cf. subdebilis (Willey, 1935) [Lang, 1948 as *Amphiascella*; (RH, 20.11.1994 and 9.9.1999 – see note below)]

Single specimens twice from *Polysiphonia fucooides*, lower intertidal, 1.3 m ACD, Roedean, Brighton: 1,1,0, 20.6.1993; 1,0,0, 27.11.1993.

Six sublittoral records:

4,2,0 from silty mixed algae (including *Calliblepharis ciliata* and *Plocamium cartilagineum*), 3.2-4.0 m BCD, S of Jenny Ground, 2.7.1994 (BS12).

2,1,0 from silty algae (predominantly *Ceramium* sp.), 4.2-4.7 m BCD, western vicinity of Brighton Marina, 14.8.1994 (BS25).

Twice from silt-smothered algal/bryozoan turf, Outer Mulberry: 9,5,9, 5.0 m BCD, 21.8.1994 (BS27); 0,0,1, 6.0 m BCD, 21.5.1995 (BS54).

1,1,0 from algae with entrapped silty sand (*Gracilaria* sp. and *Plocamium cartilagineum* co-dominant), 2.2 m BCD, S of Peacehaven, 22.7.1995 (BS63).

1,0,0 from *Calliblepharis ciliata* (supporting epiphytic *Ceramium* sp.), 4.1-4.7 m BCD, near Jenny Ground, 17.9.1995 (BS74).

Note.

According to Dr R. Hamond (pers. comm., 9.9.1999, having examined several specimens of both sexes) this is the *A. ?subdebilis* he has previously called the Roscoff form (see Monard's record in Lang, 1948, p. 719) and the *A. ?subdebilis* from the Mediterranean may or may not be the same species. Willey's original description and figures are so inadequate that more specimens would have to be collected from his original localities in order to try to find out, if possible, what he really had before him.

Amphiascopsis cinctus (Claus, 1866) [Sars, 1906 as *Amphiascus*]

0,0,1 from mixed algae (including *Calliblepharis ciliata*, *Cryptopleura ramosa*, *Halopithys incurvus*, *Cladostephus spongiosus*), 1.6 m BCD, W of Mixon Hole, 13.7.1997 (BS91).

Four records from the Outer Mulberry:

0,0,1 from mixed algae (including *Heterosiphonia plumosa* and *Brongniartella byssoides*), 4.5 m BCD, 31.7.1994 (BS23).

8,4,4 (in company with *A. thalestroides* 1,0,1) from silt-smothered algal/bryozoan turf, 5.0 m BCD, 21.8.1994 (BS27).

1,0,0 from mixed algae (including *Calliblepharis ciliata*, *Phyllophora pseudoceranoides*, *Heterosiphonia plumosa*), 5.0 m BCD, 21.5.1995 (BS53).

1,0,1 (in company with *A. thalestroides* 1,0,3) from silt-smothered algal/bryozoan turf, 6.4 m BCD, 27.7.1997 (BS97).

Amphiascopsis thalestroides (Sars, 1911) [Sars, 1911 as *Amphiascus*]

1,0,0 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

Four records from the Outer Mulberry:

1,0,1 (in company with *A. cinctus* 8,4,4) from silt-smothered algal/bryozoan turf, 5.0 m BCD, 21.8.1994 (BS27).

0,0,1 from silt-smothered algal/bryozoan turf, 6.0 m BCD, 21.5.1995 (BS54).

1,0,3 (in company with *A. cinctus* 1,0,1) from silt-smothered algal/bryozoan turf, 6.4 m BCD, 27.7.1997 (BS97).

1,0,0 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, 27.7.1997 (BS98).

Amphiascus cf. aegyptius Gurney, 1927 [Lang, 1948, p. 650, Abb. 262 1b, misspelt *aegypticus*; (RH, 23.5.2000)]

Recorded from lower intertidal algae (perennial *Polysiphonia fucoides* and ephemeral (spring-summer) Ectocarpales indet. and *Cladophora* sp.), 2.3-0.4 m ACD, Roedean, Brighton, January-December 1992 and April-November 1993. Adults per sample rarely more than a few, with the highest number recorded being 18,0,16 from *P. fucoides*, 0.8 m ACD, 27.9.1992.

62 records from a variety of sublittoral samples (including algae (predominantly), hydroids, bryozoan turf, gravel, heterogeneous material), 0.7-22.2 m BCD, Selsey Bill to Birling Gap (between the Seven Sisters and Beachy Head), 1994, 1995, 1997 (BS1, 2, 9-12, 15, 18-25, 27-39, 41, 53-56, 58-63, 72-74, 76-80, 82, 83, 86, 88, 90-93, 96-102). Adults per sample, 1-128 (38 samples 1-25), with higher numbers (168-1189) from BS22, 31, 33, 37, 38, 63, 74, 77, 90, 91, 99, the four highest being:

298,209, c. 250 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

527,112,662 from mixed algae (including *Halurus equisetifolius*, *Heterosiphonia plumosa* (dominant), *Cryptopleura ramosa*), 3.6 m BCD, Mixon Hole, 17.9.1995 (BS77).

c. 400, (-), c. 300 from mixed algae (including *Calliblepharis ciliata*, *Cryptopleura ramosa*, *Halopithys incurvus*, *Cladostephus spongiosus*), 1.6 m BCD, W of Mixon Hole, 13.7.1997 (BS91).

213,61,237 from mixed algae (including *Calliblepharis ciliata*, *Cystoclonium purpureum*, *Chondrus crispus*, *Rhodomela confervoides*), 2.6-3.8 m BCD, 2 km E of Selsey Bill, 6.9.1997 (BS99).

Note.

Recorded as *Amphiascus minutus* (Claus) in Ventham (1990).

Amphiascus hirtus Gurney, 1927 [Lang, 1948; (RH, 28.2.2000 – see note below)]

16 records from a variety of sublittoral samples (including algae, hydroids, hydroid/bryozoan and bryozoan turf, heterogeneous material), 0.9-22.2 m BCD, Selsey Bill to E of Eastbourne, 1994, 1995, 1997 (BS18, 19, 24, 55, 58-61, 66, 73, 74, 80, 91, 96, 98, 102). Adults per sample, 1-7, with higher numbers from two samples as follows:

31,18,55 from silt-laden hydroid (dominant)/bryozoan turf on a flint cobble, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS61).

16,10,(0) from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Note.

Dr R. Hamond (pers. comm., 28.2.2000, having examined 3,1,3 from BS61) found no variation from Norfolk specimens.

Amphiascus parvus Sars, 1906 [Sars, 1906; (RH, 3.3.1994 and 27.8.1999 – see note below)]

Four dredged records, 12-15 m BCD, Peacehaven to Cuckmere Haven, 4.7.1993: 1,1,0 from shell gravel (haul 1); 1,0,0 from hydroids/erect bryozoans scraped from cobbles (haul 2); 1,1,0 from shell gravel (haul 8); 3,2,0 from muddy silt with a coarse shell fraction (haul 9).

49 records from a variety of sublittoral samples (including algae (predominantly), hydroids, hydroid/bryozoan and bryozoan turf, gravel, heterogeneous material), 0.9-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS2, 4, 9-13, 15, 18-21, 23-25, 27-33, 35, 36, 38, 41, 53, 55, 56, 58-63, 65, 69, 71-74, 76, 80, 81, 86, 88, 96, 98, 102). Adults per sample, 1-c. 50 (mostly less than 10), with higher numbers from two samples as follows:

79,44, c. 90 from *Phyllophora crispa* (the lower parts heavily encrusted with *Electra pilosa* and supporting densely packed *Mytilus edulis* (5-15 mm long)), 6.1-7.4 m BCD, Looe Gate, 2.7.1994 (BS9).

82,59, c. 70 from a similar sample (the *Phyllophora crispa* additionally supporting epiphytic *Plocamium cartilagineum* and other algae), same depth, site and occasion, 2.7.1994 (BS10).

Note.

According to Dr R. Hamond (pers. comm., 27.8.1999), the female of *A. parvus* characteristically bears three rows of small setules on the flank of abd1 – Sussex specimens concur.

Amphiascus propinquus Sars, 1906 [Sars, 1906; (RH, 3.3.1994)]

Three dredged records, 12-13 m BCD, Newhaven to Cuckmere Haven, 4.7.1993: 0,0,1 from shell gravel (haul 8); 2,1,7 from muddy silt with a coarse shell fraction (haul 9); 0,0,1 from muddy shell gravel (haul 10).

54 records from a variety of sublittoral samples (including algae, hydroids, hydroid/bryozoan and bryozoan turf, silty gravel, heterogeneous material), 0.9-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS1, 9-11, 13-15, 17-21, 23-27, 29-36, 41, 53, 55, 58-63, 65-67, 69, 71, 72, 74, 76, 79-82, 86, 88, 92, 96-98, 100, 102). Adults per sample, 1-30 (mostly less than 10), with higher numbers from five samples as follows:

26,18,25 from silt-laden *Nemertesia antennina*, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS60).

18,7,19 from mixed hydroids (*Halecium halecinum* (supporting densely packed muddy amphipod tubes) and *Nemertesia antennina*), 10.5-11.5 m BCD, 'The Engine' (SSW of Hastings), 22.7.1995 (BS65).

26,14,27 from silt-laden hydroids (including *Hydrallmania falcata*, *Rhizocaulus verticillatus*, *Obelia longissima*), 19.3 m BCD, 4 km S of Seaford, 23.7.1995 (BS67).

24,12,c. 20 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

53,7,c. 50 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Amphiascus tenuiremis (Brady & Robertson in Brady, 1880) [Sars, 1906]

A single lower intertidal record, Roedean, Brighton: 1,1,0 from *Polysiphonia fucoides*, 1.0 m ACD, 8.4.1993.

29 records from a variety of sublittoral samples (including algae, algal/bryozoan, hydroid/bryozoan and bryozoan turf, heterogeneous material), 0.9-22.2 m BCD, Selsey Bill to Birling Gap, 1994, 1995, 1997 (BS1, 9, 10, 14, 18-21, 23, 24, 27, 29, 30, 33, 38, 53-55, 58, 61, 72, 74, 77, 80, 86, 97-99, 102). Adults per sample, 1-c. 50 (mostly less than 10), with higher numbers from four samples as follows:

Adults >100 (require further examination) from mixed algae (including *Phyllophora pseudoceranoides*, *Heterosiphonia plumosa*, *Cryptopleura ramosa*, *Delesseria sanguinea*), 9.6 m BCD, 500 m NE of Outer Owers buoy, 12.7.1997 (BS86).

29,0,43 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

298,33,c. 500 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

44,3,c. 60 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

***Amphiascus* sp. A** [*minutus*-group sensu Lang, 1948; (RH, 26.6.2000)]

5,2,5 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

1,0,0 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

0,0,3 from *Heterosiphonia plumosa*, 6.7 m BCD, South-West Rocks, 1.10.1994 (BS33).

Note.

The P1 enp-3 armature of this species comprises a simple claw and an unusually short geniculate seta (shorter than the claw).

***Amphiascus* sp. B** [*varians*-group sensu Lang, 1948; (RH, 18.4.1993)]

0,0,1 from *Polysiphonia fucoides*, lower intertidal, 1.5 m ACD, Roedean, Brighton, 9.11.1992.

Bulbamphiascus imus (Brady, 1872) [Mu & Gee, 2000]

Five records from *Polysiphonia fucoides*, lower intertidal, 1.4-0.6 m ACD, Roedean, Brighton: 1,0,0 (*P. fucoides* laden with muddy detritus), 8.4.1993; 1,0,0, 20.6.1993; 0,0,1, 15.9.1993; 1,0,0, 13.10.1993; 0,0,1, 11.11.1993.

10 records from a variety of sublittoral samples (including gravel, silt, mixed sediment (gravel/sand/silt), silt-smothered algal/bryozoan turf), 4.0-21.2 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS1, 27, 36, 69, 71, 79, 81, 82, 92, 97). Adults per sample, 1-4, with higher numbers from two samples as follows:

4,0,9 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

4,1,4 from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

Bulbamphiascus scilloniensis Gee, 2005 [Gee, 2005]

Two records from *Polysiphonia fucoides*, lower intertidal, Roedean, Brighton: 0,0,1, 1.6 m ACD, 25.10.1992; 0,0,1, 1.4 m ACD, 13.10.1993.

Note.

Length (excluding rostrum) 670 µm and 660 µm respectively. First record outside the Isles of Scilly as far as known, but may well have been incorrectly recorded as *B. imus* in the past (Dr J. M. Gee, pers. comm., 8.9.2008).

***Bulbamphiascus* sp. B**

Two records from *Polysiphonia fucoides*, lower intertidal, Roedean, Brighton: 0,0,1, 1.7 m ACD, 6.5.1993; 0,0,1, 1.5 m ACD, 11.11.1993.

Note.

Length (excluding rostrum) 550 µm and 570 µm respectively.

Diosaccus tenuicornis (Claus, 1863) [Sars, 1906]

1,1,0 from *Polysiphonia fucoides* (dominated by epiphytic *Ceramium* sp.), lower intertidal, 2.3 m ACD, Roedean, Brighton, 1.8.1992 (see note 2 below).

18 records from a variety of sublittoral samples (including algae (predominantly), algal/bryozoan (BS97) and bryozoan turf (BS98)), 0.7-11.4 m BCD (plus one record from a greater depth, viz. 6,0,0 from a heterogeneous sample comprised of silty gravel and a bryozoan-encrusted cobble, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102)), Selsey Bill to Peacehaven, 1994, 1995, 1997 (BS18-23, 29, 31, 63, 74, 77, 83, 86, 88, 90, 91, 97, 98, 102). Adults per sample, 1-44 (10 samples 1-6), with higher numbers from two samples as follows:

109,1,38 from *Calliblepharis ciliata*/filamentous rhodophytes, 7.2 m BCD, 5 km S of Angmering-on-Sea, 30.7.1994 (BS21).

109,2,46 + 1 pair from mixed algae co-dominated by *Plocamium cartilagineum* and *Ceramium* sp., 2.4 m BCD, 2 km SSW of Angmering-on-Sea, 30.7.1994 (BS22).

Notes.

1. The female keys out in Lang (1965) to *D. tenuicornis*, but the P5 differs from Sars (1906, pl. LXXXIX) as follows: the benp. extends about two-thirds the way along the exp. rather than reaching the end, and its middle slender simple seta is about twice as long as its neighbours rather than subequal; the exp., which is about 2.4 times as long as its maximum width, is gently tapered rather than parallel-sided, and its inner seta rather more slender than the specimen drawn by Sars.

2. *D. tenuicornis* was a frequently recorded species from lower intertidal algae (including *Polysiphonia fucoides*), 1.9-0.6 m ACD (a single specimen, 3.0 m ACD), Roedean, Brighton, July-September 1983 and 1984 (Ventham, 1990).

Haloschizopera bulbifera (Sars, 1911) [Moore & O'Reilly, 1993]

1,0,0 (with *H. pygmaea* 1,0,0 and *H. sp. C* 1,0,0) from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Note.

The outer terminal seta of caudal ramus not expanded at base (Moore & O'Reilly, 1993, fig. 4).

Haloschizopera pygmaea (Norman & T. Scott, 1905) [Moore & O'Reilly, 1989; (RH, 18.4.1993)]

A single intertidal record, Roedean, Brighton: 1,0,0 from *Polysiphonia fucoides*, 1.0 m ACD, 26.10.1992.

Five sublittoral records:

2,1,1 (with *H. sp. B* 1,0,0) from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

2,2,0 from a mixed sample of silt and several flints (one supporting barnacles and *Crepidula fornicata*), 9.8-10.4 m BCD, 2 km SSE of Brighton Marina, 16.9.1995 (BS69).

1,0,0 from silty gravel, 10.0 m BCD, NE of Palace (Brighton) Pier Reef, 16.9.1995 (BS71).

1,0,0 (with *H. bulbifera* 1,0,0 and *H. sp. C* 1,0,0) from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

3,1,0 (with *H. sp. A* 0,0,1 and *H. sp. D* 80,42,48) from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Haloschizopera sp. A [As for spp. B, C and D below, does not key out in Dr J. M. Gee's unpublished key to known *Haloschizopera spp.* (kindly provided 30.8.2000); (RH, 28.2.2000)]

A single lower intertidal record, Roedean, Brighton: 1,0,0 from *Polysiphonia fucoides*, 1.4 m ACD, 13.10.1993.

12 records from a variety of sublittoral samples (including algae, the hydroid *Nemertesia antennina*, algal/bryozoan and bryozoan turf, heterogeneous material (BS102 detailed below)), 0.9-21.2 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS19, 27, 54, 58, 60, 62, 77, 79, 81, 97, 98, 102). Adults per sample, 1-3, with higher numbers from three samples as follows:

Twice from silt-smothered algal/bryozoan turf, Outer Mulberry: 38,14,122, 5.0 m BCD, 21.8.1994 (BS27); 25,12,17 (with *H. sp. D* 1,1,0), 6.0 m BCD, 21.5.1995 (BS54).

5,0,22 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Note.

Length (base of rostrum to distal margin of caudal rami): females 510-610 μm (mean = 564 μm , $n = 20$); males 430-510 μm (mean = 474 μm , $n = 20$).

Haloschizopera sp. B

Four sublittoral records:

1,0,0 (with *H. pygmaea* 2,1,1) from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

1,1,0 from fine sand, 9.0 m BCD, SE of Palace (Brighton) Pier Reef, 6.5.1995 (BS48).

6,0,12 from fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (BS68).

3,0,14 from medium sand, 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS94).

Note.

Length (base of rostrum to distal margin of caudal rami): females 400-490 μm (mean = 446 μm , $n = 8$); males 310-380 μm (mean = 350 μm , $n = 10$).

***Haloschizopera* sp. C**

1,0,0 (with *H. pygmaea* 1,0,0 and *H. bulbifera* 1,0,0) from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Note.

Length (excluding rostrum) 610 μm .

***Haloschizopera* sp. D**

1,1,0 (with *H. sp. A* 25,12,17) from silt-smothered algal/bryozoan turf, 6.0 m BCD, Outer Mulberry, 21.5.1995 (BS54).

1,0,1 from mixed sediment (gravel/sand/silt), 4.0-4.9 m BCD, off the Seven Sisters, 14.10.1995 (BS82).

80,42,48 (with *H. pygmaea* 3,1,0 and *H. sp. A* 0,0,1) from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Note.

Length (excluding rostrum): females 440-520 μm (mean = 484 μm , $n = 10$); males 380-420 μm (mean = 399 μm , $n = 10$).

Paramphiascella fulvofasciata Rosenfield & Coull, 1974 [Rosenfield & Coull, 1974; (RH, 18.4.1993 and 20.11.1994)]

Eight records from *Polysiphonia fucoides*, lower intertidal, 1.5-0.8 m ACD, Roedean, Brighton: 1,0,0, 3.5.1992; 0,0,1, 8.12.1992; 4,0,1, 8.4.1993; 1,1,0, 6.5.1993; 0,0,1 twice, 15.9.1993; 1,0,2 and 1,1,1, 13.10.1993.

49 records from a variety of sublittoral samples (including algae (mainly), hydroids, hydroid/bryozoan turf, gravel), 0.7-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS4, 9-13, 15, 18, 20-26, 28-33, 36-39, 41, 53, 56, 58, 60, 63, 65, 67, 71, 73-81, 83, 86, 90, 91, 99, 101). Adults per sample, 1-c. 30 (mostly less than 10), with higher numbers from four samples as follows:

39,26,26 from *Phyllophora crispa* (supporting epiphytic *Plocamium cartilagineum* and other algae, and the lower parts heavily encrusted with *Electra pilosa* and supporting densely packed *Mytilus edulis* (5-15 mm long)), 6.1-7.4 m BCD, Looe Gate, 2.7.1994 (BS10).

33,19,31 (see note below) from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

29,14,13 from *Calliblepharis ciliata* (supporting sparse epiphytic *Ceramium* sp.), 4.1-4.7 m BCD, near Jenny Ground, 17.9.1995 (BS74).

28,20,19 from *Calliblepharis ciliata*, 5.9-6.4 m BCD, S of Hove, 17.9.1995 (BS76).

Note.

An additional aberrant gynandromorph specimen (BS24 above) with female antennules, male fifth and sixth legs, and seven urosomites.

Paramphiascopsis cf. longirostris (Claus, 1863) [(RH, 28.2.2000 – see note below)]

Four sublittoral records:

1,0,0 from small algal/hydroid growths on a pebble, 10.4 m BCD, 5 km S of Shoreham, 4.9.1994 (BS32).

11,2,31 from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

5,4,7 from gravel, 6.0 m BCD, the 'Indiana' wreck, 13.7.1997 (BS92).

3,0,6 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Note.

According to Dr R. Hamond (pers. comm., 28.2.2000, having examined 7,1,10 from BS79) this is probably the real *P. longirostris*, Sars's figures (copied in Lang, 1948) being of another species. *Paramphiascopsis* badly needs revising from specimens.

Pararobertsonia sp. A

Three records from silt-smothered algal/bryozoan turf, Outer Mulberry: 97,4,123, 5.0 m BCD, 21.8.1994 (BS27); 9,2,14, 6.0 m BCD, 21.5.1995 (BS54); 10,1,12, 6.4 m BCD, 27.7.1997 (BS97).

Note.

Keys out in Lang (1965) to this genus, but neither of the two known species (Lang, 1948; Boxshall & Halsey, 2004).

Pseudamphiascopsis attenuatus (Sars, 1906) [Lang, 1948; Wells, 1968 – see note below]

1,0,0 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Note.

Keys out in Lang (1948) to *P. ismaelensis* (Monard, 1936) (A1 eight-segmented, A2 exp. one-segmented), later synonymized with *P. attenuatus* (A1 nine-segmented, A2 exp. two-segmented) by Wells (1968).

Robertgurneya ilievecensis (Monard, 1935) [Monard, 1935; Wells, 1963; Hamond, 1973b – see note below]

Recorded from two samples, 26.8 m BCD, Shoal of the Lead, 13.7.1997: 1,0,1 from medium sand (BS94); 8,2,5 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments) (BS95).

Note.

Females agree well with *R. ilievecensis* from Strangford Lough, Ireland, described by Hamond (1973b), but differ in the P5 exp. bearing six rather than five setae, the additional seta situated on the **outer** margin between the proximal and proximal-but-one seta drawn in fig. 38 by Hamond (1973b). According to Monard (1935), the P5 exp. of the original female from Roscoff bore six setae (as found in Sussex

specimens), although Hamond (1973b), with reference to Strangford Lough specimens, considered it possible that Monard mistook one of the very long setules on the **inner** edge of the P5 exp. for a genuine seta. The present observation indicates intraspecific variation rather than oversight by Monard.

Robertgurneya cf. simulans (Norman & T. Scott, 1905) [(RH, 18.4.1993)]

0,0,1 from *Polysiphonia fucooides*, lower intertidal, 1.4 m ACD, Roedean, Brighton, 8.12.1992.

Robertgurneya smithi Hamond, 1973 [Hamond, 1973b; (RH, 12.5.1998 – see note below)]

Three records from Widewater Lagoon, Shoreham, 20.9.1997: 35,5,54 from muddy algae (*Chaetomorpha* sp. and *Cladophora* sp. co-dominant) (WLS1); 16,3,13 from sediment (black silt/mud/gravel) plus several small cockle shells (WLS2); 11,3,10 (+ uncounted specimens) from muddy algae (*Enteromorpha* sp. and *Ulva* sp. co-dominant) attached to cockle shells (WLS6).

Note.

Dr R. Hamond (pers. comm., 12.5.1998, having examined 10,3,10 (WLS6)) suggested that the name *smithi* be used for these specimens until it can be proved that some older name is truly identical with it. Lang (1948, 1965) has confused this species with *similis*, both of which occur in Norfolk waters, are quite distinct, and need redescriptions as part of the basis for any future revision.

Robertgurneya sp. A [(RH, 18.4.1993 – see note below)]

1,1,0 from *Polysiphonia fucooides*, lower intertidal, 1.3 m ACD, Roedean, Brighton, 16.4.1992.

Note.

According to Dr R. Hamond (pers. comm., 18.4.1993) this is probably an undescribed species which he has also found in brackish water in Norfolk.

Robertsonia cf. knoxi (Thompson & A. Scott, 1903) [Lang, 1948; Hamond, 1973a; Fiers, 1996 – see note 1 below; (RH, 9.8.1997 – see note 2)]

Seven sublittoral records:

1,0,0 from silty mixed algae (including *Calliblepharis ciliata* and *Plocamium cartilagineum*), 3.2-4.0 m BCD, S of Jenny Ground, 2.7.1994 (BS12).

0,0,2 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

1,0,0 from algae (mainly *Plocamium cartilagineum*), 0.9 m BCD, Seaford Head Gullies, 25.6.1995 (BS58).

0,0,1 from silty gravel, 10.0 m BCD, NE of Palace (Brighton) Pier Reef, 16.9.1995 (BS71).

1,0,0 from *Calliblepharis ciliata* (supporting sparse epiphytic *Ceramium* sp.), 4.1-4.7 m BCD, near Jenny Ground, 17.9.1995 (BS74).

1,0,0 from mixed algae (including *Gracilaria* sp. (mainly) and *Rhodomenia holmesii*), 4.0-4.9 m BCD, western vicinity of Brighton Marina, 22.9.1995 (BS80).

3,0,0 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Notes.

1. Keys out in Hamond (1973a) to *knoxii*, and would key out in Fiers (1996) but for the female P1 enp-1 extending only *c.* one third of the way along exp-3 rather than halfway, and the P1 enp-1 inner seta being longer than the width of the supporting segment rather than equal. Also the female abdominal lateral spinulation comprises just a few larger spinules in precisely defined rows rather than the abundant multiseriate spinulation figured in Lang (1948, Abb. 255, p. 634).

2. According to Dr R. Hamond (pers. comm., 9.8.1997) Sussex females agree quite well with his slide of a specimen from near Sydney which he also ascribes to *knoxii*.

Schizopera pratensis Noodt, 1958 [Noodt, 1958; (RH, 12.5.1998)]

11,5,1 from saltmarsh (*Salicornia*) mud, Widewater Lagoon, Shoreham, 20.9.1997 (WLS5).

Diosaccinae (Miraciid spp. A-E) requiring further examination:

Miraciid sp. A and Miraciid sp. B [(RH, 20.11.1994)]

1,1,0 (sp. A) and 1,0,0 (sp. B) from *Polysiphonia fucoides*, lower intertidal, 1.4 m ACD, Roedean, Brighton, 6.5.1993.

Note.

Both species small (unmeasured).

Miraciid sp. C and Miraciid sp. D

1,0,0 (sp. C) and 1,0,0 (sp. D) from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Note.

Both species large and distinctive: sp. C, 1010 μm , and sp. D, 680 μm in length (base of rostrum to distal margin of caudal rami).

Miraciid sp. E [(RH, 12.5.1998)]

1,1,0 from muddy algae (*Enteromorpha* sp. and *Ulva* sp. co-dominant) attached to cockle shells, Widewater Lagoon, Shoreham, 20.9.1997 (WLS6).

Note.

A tiny *Mesochra*-like species.

Sub-family **Stenheliinae** Brady, 1880

Delavalia normani normani T. Scott, 1905 [Sars, 1906 as *Stenhelia*; Coull, 1976; (RH, 28.2.2000)]

Five sublittoral records:

Three from silt-smothered algal/bryozoan turf, Outer Mulberry: 95,20,63, 5.0 m BCD, 21.8.1994 (BS27); 9,5,2, 6.0 m BCD, 21.5.1995 (BS54); 34,16,30, 6.4 m BCD, 27.7.1997 (BS97).

1,1,0 from gravel, 6.0 m BCD, the 'Indiana' wreck, 13.7.1997 (BS92).

0,0,1 from silty bryozoan turf (predominantly *Bugula plumosa*), Outer Mulberry, 6.6 m BCD, 27.7.1997 (BS98).

Delavalia reflexa Brady & Robertson in Brady, 1880 [Sars, 1906 as *Stenhelia*; Coull, 1976]

1,1,0 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

***Delavalia* sp. A** [(RH, 28.2.2000)]

Twice from silt-smothered algal/bryozoan turf, Outer Mulberry: 6,1,4, 5.0 m BCD, 21.8.1994 (BS27); 12,2,2, 6.4 m BCD, 27.7.1997 (BS97).

Note.

Both sexes key out in Lang (1965) to *Stenhelia (Delavalia) inopinata* A. Scott, 1902, but, unsurprisingly, not this species, Scott's specimens having been collected from the Red Sea and Indian Ocean.

Stenhelia gibba Boeck, 1865 [Sars, 1906; Mu & Huys, 2002]

1,0,0 from dredged shell gravel, 13 m BCD, Cuckmere Haven, 4.7.1993 (haul 8).

(?) ***Stenhelia* sp. A** [Mu & Huys, 2002 – see note 1; (RH, 18.4.1993 and 12.4.1994 – see note 2)]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.6-0.5 m ACD, Roedean, Brighton, January, October-December 1992 and April-November 1993 (probably under-recorded 1992). Adults per sample rarely more than one or two.

1,0,0 from silt-smothered algal/bryozoan turf, 5.0 m BCD, Outer Mulberry, 21.8.1994 (BS27).

Notes.

1. On first examination this species was assigned *Stenhelia (Stenhelia)* sp. A following the traditional subgeneric division of *Stenhelia* which has since been invalidated by Mu & Huys (2002) who found *Stenhelia (Stenhelia)* and *Stenhelia (Delavalia)* to be polyphyletic. *Stenhelia* was restricted by Mu & Huys (*ibid*) to a core group of eight species (type species *S. gibba*), the group monophyly substantiated by the presence of a modified seta on the P5 benp. of both sexes, viz. the second innermost in the female and the innermost in the male. However, the species recorded here cannot be ascribed to this core group due to the presence of a modified middle as well as a modified second innermost seta on the P5 benp. of the female.

2. A small species, female average length *c.* 370 µm, male *c.* 320 µm (base of rostrum to distal margin of caudal rami). According to Dr R. Hamond (pers. comm., 18.4.1993 and 12.4.1994, having examined 10,1,6 specimens) rather like an undescribed Norfolk species.

Family **NORMANELLIDAE** Lang, 1944

Normanella minuta (Boeck, 1872) [Sars, 1909 – see note below; Hamond, 1969; (RH, 18.4.1993)]

Seven records from *Polysiphonia fucoides*, lower intertidal, 1.5-0.8 m ACD, Roedean, Brighton: 1,0,0 (twice), 26.10.1992; 1,0,0, 9.11.1992; 2,0,0 (in company with *N. tenuifurca* 1,0,0), 1,0,0 (twice) and 0,0,1, 8.12.1992.

15 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan and hydroid/bryozoan turf, gravel, mixed sediment), 0.9-19.6 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS9, 11, 12, 27, 54, 55, 58, 60, 61, 63, 65, 71, 81, 82, 102). Adults per sample, 1-9, the two highest numbers being:

3,1,3 (in company with *N. tenuifurca* 0,0,2) from mixed algae (including *Calliblepharis ciliata* and filamentous rhodophytes), 3.2-4.0 m BCD, S of Jenny Ground, 2.7.1994 (BS11).

4,3,4 + 1 pair (in company with *N. tenuifurca* 1,0,4) from silty mixed algae (including *Calliblepharis ciliata* and *Plocamium cartilagineum*), 3.2-4.0 m BCD, S of Jenny Ground, 2.7.1994 (BS12).

Note.

Female A1 with six segments (Hamond, 1969) rather than five (Sars, 1909).

Normanella tenuifurca Sars, 1909 [Sars, 1909; (RH, 18.4.1993)]

Twice from *Polysiphonia fucoides*, lower intertidal, 1.5 m ACD, Roedean, Brighton: 1,0,0, 2.1.1992; 1,0,0 (in company with *N. minuta* 2,0,0), 8.12.1992.

Four dredged records, 13-17 m BCD, Seaford Head to Cuckmere Haven, 4.7.1993: 0,0,1 from silt (haul 6); 1,0,0 from small hydroids scraped from stones (haul 7); 3,0,0 from shell gravel (haul 8); 0,0,1 from muddy silt with a coarse shell fraction (haul 9).

43 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan, hydroid/bryozoan and bryozoan turf, gravel, mixed sediment, fine sand (once only: 1,0,0, BS44)), 0.9-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS8-12, 14, 15, 18-20, 24-27, 31, 35, 36, 38, 39, 44, 53-55, 58-61, 65-67, 71, 73, 74, 78, 79, 81, 82, 88, 90, 91, 97, 98, 102). Adults per sample, 1-13 (31 samples 1-5), with higher numbers from three samples as follows:

Twice from silt-smothered algal/bryozoan turf, Outer Mulberry: 27,1,10 (in company with *N. minuta* 1,0,0), 5.0 m BCD, 21.8.1994 (BS27); 17,0,6, 6.4 m BCD, 27.7.1997 (BS97).

12,4,11 (in company with *N. minuta* 2,2,2) from silt-laden hydroid (dominant)/bryozoan turf on a flint cobble, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS61).

Family **ORTHOPSYLLIDAE** Huys, 1990

Orthopsyllus linearis linearis (Claus, 1866) [Hamond, 1970 as *Orthopsyllus* sp.; (RH, 18.4.1993)]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.5-0.6 m ACD, Roedean, Brighton, January-April, August, October, December 1992. Adults per sample, 1-3.

19 records from a variety of sublittoral samples (including algae, the hydroid *Nemertesia antennina*, hydroid/bryozoan and bryozoan turf, gravel/mudstone (BS79), heterogeneous material (gravel + bryozoan-

encrusted cobble, BS102)), 0.7-21.2 m BCD, Selsey Bill to SW of Birling Gap (between the Seven Sisters and Beachy Head), 1994, 1995, 1997 (BS11, 15, 25, 31, 37, 55, 58-61, 63, 73, 79, 80, 83, 86, 88, 98, 102). Adults per sample, 1-2, with a higher number as follows:

9,5,4 from silt-laden *Nemertesia antennina*, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS60).

Family **PARAMESOCHRIDAE** Lang, 1944

Members of this predominantly mesopsammic family require further examination. However, of the several (c. 5) species encountered (BS94 and 95), one **uncertain** member is recorded here:

15,1,0 from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Note.

Unusual morphology: abdomen with three large dorsal spines.

Family **PARASTENHELIIDAE** Lang, 1944

Foweya anglica (Norman & T. Scott, 1905) (Syn.= *Parastenhelia anglica* Norman & T. Scott, 1905) [Gee, 2006]

2,1,0 from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

Family **PELTIDIIDAE** Sars, 1904

Alteutha depressa (Baird, 1837) [Lang, 1948; Huys *et al.*, 1996]

0,0,3 + 2 pairs from *Polysiphonia fucoides*, lower intertidal, 0.8 m ACD, Roedean, Brighton, 27.9.1992.

Nine records from sublittoral algae, 0.9-4.9 m BCD, Selsey Bill to E of Seaford Head, 1994, 1995, 1997 (BS37, 41, 58, 72-74, 77, 80, 101). Adults per sample, 1-4, with higher numbers from two samples as follows:

6,1,4 from mixed algae (including *Calliblepharis ciliata* (supporting dense epiphytic *Ceramium* sp.), *Plocamium cartilagineum*, *Cladostephus spongiosus*), 3.4 m BCD, W of Grass Banks, 2.10.1994 (BS37).

5,5,4 from *Rhodymenia holmesii*, 3.6-4.1 m BCD, western vicinity of Brighton Marina, 16.9.1995 (BS73).

Note.

Previously unrecorded from the south coast of England (Huys *et al.*, 1996).

Alteutha interrupta (Goodsir, 1845) [Sars, 1904; Huys *et al.*, 1996]

Two records from the lower intertidal, Roedean, Brighton: 2,1,0 (in company with *A. oblonga* 1,1,0) from *Polysiphonia fucooides*, 0.9 m ACD, 16.4.1992; 1,1,0 from Ectocarpales indet., 1.3 m ACD, 1.6.1992.

1,1,0 from dredged shell gravel, 13 m BCD, Cuckmere Haven, 4.7.1993 (haul 8).

35 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan, hydroid/bryozoan and bryozoan turf, gravel (1,0,0, BS36), fine sand (0,0,1, BS57; 1,0,2, BS64; 6,0,3, BS70)), 0.7-22.2 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS9, 10, 13, 15, 17-19, 21, 22, 24, 27, 29-31, 33, 34, 36, 53-61, 63-65, 67, 70, 81, 83, 86, 98). Adults per sample, 1-5 (16 samples single specimens), with a few more from four samples as follows:

3,2,4 from *Phyllophora crispa* (the lower parts heavily encrusted with *Electra pilosa* and supporting densely packed *Mytilus edulis* (5-15 mm long)), 6.1-7.4 m BCD, Looe Gate, 2.7.1994 (BS9).

5,3,6 + 1 pair (in company with *A. oblonga* 0,0,1) from a similar sample to above, the *Phyllophora crispa* additionally supporting *Plocamium cartilagineum* and other algae, same depth and location, 2.7.1994 (BS10).

2,0,5 from *Calliblepharis ciliata*/filamentous rhodophytes, 7.2 m BCD, 5 km S of Angmering-on-Sea, 30.7.1994 (BS21).

6,0,3 from fine sand (slightly silty), 5.3-5.8 m BCD, 1 km SE of Brighton Marina, 16.9.1995 (BS70).

Alteutha oblonga (Goodsir, 1845) [Sars, 1904 as *A. depressa*; Huys *et al.*, 1996]

Twice from *Polysiphonia fucooides*, lower intertidal, Roedean, Brighton: 1,1,0 (in company with *A. interrupta* 2,1,0), 0.9 m ACD, 16.4.1992; 0,0,1, 1.4 m ACD, 8.12.1992.

12 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan turf, gravel/mudstone material), 0.9-21.2 m BCD, Selsey Bill to the Seven Sisters, 1994, 1995, 1997 (BS10, 19, 20, 23, 27, 58, 60, 67, 79, 88, 90, 97). Single adults per sample.

Peltidium purpureum Philippi, 1839 [Sars, 1904; Huys *et al.*, 1996]

1,0,1 from *Polysiphonia fucooides*, lower intertidal, 1.3 m ACD, Roedean, Brighton, 13.10.1993.

Six records from sublittoral algae, 3.6-9.6 m BCD, SE of Selsey Bill to Brighton, 1994, 1995, 1997 (BS21, 23, 31, 38, 73, 86). Single adults per sample, save 2,0,0 (BS31).

Family RHIZOTRICHIDAE Por, 1986

Rhizothrix minuta (T. Scott, 1903) [Lang, 1948; Bodin, 1979]

Nine sublittoral records (eight from various sediment types (including fine, medium and medium/coarse sand, gravel, mixed sediment) and one from the hydroid *Obelia longissima* (1,0,0, BS34)), 8.1-26.8 m BCD, SE of Selsey Bill to SSW of Seaford, 1994, 1995, 1997 (BS17, 34, 36, 47, 48, 51, 64, 68, 94). Adults per sample, 1-4, with higher numbers from two samples as follows:

20,0,2 from fine sand (with a few small bivalve shells and *c.* 4-5% shell fragments), 11.2 m BCD, 5 km SSE of Brighton Marina, 22.7.1995 (BS64).

10,0,3 from fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (BS68).

Rhizothrix wilsoni Bodin, 1979 [Bodin, 1979; (RH, 3.3.1994)]

Five sublittoral records:

0,0,1 from dredged shell gravel, 12 m BCD, off Peacehaven, 4.7.1993 (haul 1).

1,0,0 from fine sand, 8.2 m BCD, 2 km SSE of Roedean School, Brighton, 6.5.1995 (BS43).

1,0,0 from fine sand, 10.5 m BCD, SE of Palace (Brighton) Pier Reef, 6.5.1995 (BS47).

2,0,0 from fine sand, 9.0 m BCD, SE of Palace (Brighton) Pier Reef, 6.5.1995 (BS48).

2,0,0 from fine sand (slightly silty), 5.3-5.8 m BCD, 1 km SE of Brighton Marina, 16.9.1995 (BS70).

Note.

Presumed first British record.

***Rhizothrix* sp. A**

1,1,0 from medium sand, 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS94).

Note.

Keys out in Bodin (1979) to *R. reducta reducta* Noodt, 1952, but neither this nor *R. reducta noodti* Galhano, 1970, P2-P4 exp-2 being 'normal' rather than reduced. Length 420 µm.

***Rhizothrix* sp. B**

2,0,0 from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Note.

Keys out in Bodin (1979) to *R. spinosa* Coull, 1971, but not this species. Length 640 and 650 µm.

Family **TACHIDIIDAE** Boeck, 1865

All *Microarthridion* material verified by Prof. R. Huys and Dr S. Conroy-Dalton (pers. comm., 19.4.2005).

Microarthridion fallax Perkins, 1956

1,0,0 (in company with *Tachidius (T.) discipes* 1,1,0) from small algal/hydroid growths on a pebble, 10.4 m BCD, 5 km S of Shoreham, 4.9.1994 (BS32).

Microarthridion reductum (Monard, 1935)

Twice from silt-smothered algal/bryozoan turf, Outer Mulberry: 10,0,4, 5.0 m BCD, 21.8.1994 (BS27); 1,0,0 (in company with *Microarthridion* sp. A 5,0,0), 6.4 m BCD, 27.7.1997 (BS97).

***Microarthridion* sp. A**

1,0,0 from fine sand, 6.5 m BCD, 2 km SSE of Roedean School, Brighton, 6.5.1995 (BS45).

5,0,0 (in company with *M. reductum* 1,0,0) from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Note.

An undescribed species also found in the southern North Sea (Dr R. Huys, pers. comm.).

***Tachidius discipes* Giesbrecht, 1881 [Lang, 1948; Huys *et al.*, 1996]**

1,1,0 (in company with *Microarthridion fallax* 1,0,0) from small algal/hydroid growths on a pebble, 10.4 m BCD, 5 km S of Shoreham, 4.9.1994 (BS32).

Family **TEGASTIDAE** Sars, 1904

***Parategastes sphaericus* (Claus, 1863) [Sars, 1904; Huys *et al.*, 1996]**

Four records from lower intertidal algae (*Polysiphonia fucooides*, one exception indicated), 1.4-0.8 m ACD, Roedean, Brighton: 0,0,1, 3.5.1992; 1,1,0, Ectocarpales indet., 1.6.1992; 1,1,0, 27.9.1992; 0,0,1, 8.12.1992.

One dredged record: 1,1,0 from small hydroids scraped from stones, 16 m BCD, off Hope Point (E of Seaford Head), 4.7.1993 (haul 7).

47 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan, hydroid/bryozoan and bryozoan turf, heterogeneous material (e.g. 16,7,23 from silty gravel + bryozoan-encrusted cobble, BS102)), 0.7-22.2 m BCD, Selsey Bill to E of Eastbourne, 1994, 1995, 1997 (BS9-12, 15, 18-22, 24-26, 28-31, 33-35, 37, 38, 41, 53, 55, 58, 60-63, 66, 67, 72, 73, 77, 80, 81, 83, 86, 88, 96-102). Adults per sample, 1-21 (38 records 1-10), with higher numbers (29-214) from BS18, 19, 33, 67, 102, the two highest being:

28,19,30 from a silty sample of algae (*Calliblepharis ciliata*, *Brongniartella byssoides*) attached to flint pebbles, 10.0 m BCD, 7 km S of Worthing, 30.7.1994 (BS19).

77,48,137 from *Heterosiphonia plumosa*, 6.7 m BCD, South-West Rocks, 1.10.1994 (BS33).

Note.

Variability – several females with caudal ramus seta V expanded at base: three of 19 (BS18); two of three (BS22); one of four (BS29); three of four (BS30); one (+) of 77 (BS33). A few more such females may have been overlooked in other samples.

***Tegastes clausi* Sars, 1904 [Sars, 1904 as *T. longimanus*; (RH, 18.4.1993)]**

Recorded from *Polysiphonia fucooides*, lower intertidal, 1.6-0.6 m ACD, Roedean, Brighton, March, May, August-December 1992. Adults per sample, 1-84, minimal (1-5) March, May, August, exceeding 16 only in September and December e.g. 44,34,40, 0.8 m ACD, 27.9.1992; 55,7,20, 1.5 m ACD, 8.12.1992.

Eight sublittoral records (seven from algae, one from hydroid/bryozoan turf (0,0,1, BS61)), 0.9-8.0 m BCD, Selsey Bill to the Seven Sisters, 1994, 1995, 1997 (BS33, 38, 58, 61, 72-74, 101). Adults per sample, 1-8.

Tegastes falcatus (Norman, 1868) [Sars, 1904; Huys *et al.*, 1996]

0,0,1 from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

Tegastes flavidus Sars, 1904 [Sars, 1904 – see note below; Huys *et al.*, 1996]

14 records from a variety of sublittoral samples (including algae, hydroids, hydroid/bryozoan turf, heterogeneous material), 0.9-22.2 m BCD, Selsey Bill to Beachy Head, 1994, 1995, 1997 (BS2, 18, 19, 24, 26, 33, 54, 58, 61, 67, 81, 88, 96, 102). Adults per sample, 1-2, with higher numbers from four samples as follows:

1,1,4 from a mixed sample of *Phyllophora pseudoceranoides* and *Flustra foliacea*, 8.8-10.8 m BCD, Spanner Reef, 30.7.1994 (BS18).

4,2,5 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

11,8,9 from *Heterosiphonia plumosa*, 6.7 m BCD, South-West Rocks, 1.10.1994 (BS33).

6,4,2 from mixed algae with basally entrapped sand (including *Plocamium cartilagineum*, *Heterosiphonia plumosa*, *Cladostephus spongiosus*, *Taonia atomaria*), 6.5 m BCD, Outer Mulberry, 12.7.1997 (BS88).

Note.

Presumed first British record. The female P5 benp. differs from Sars's description (1904, p. 70) in having three rather than two setae along the curved anterior edge.

Tegastes longimanus (Claus, 1863) [Sars, 1910; Huys *et al.*, 1996]

Six records from a variety of sublittoral samples (including algae, bryozoan turf, mixed material), 6.1-11.6 m BCD, SE of Pagham village (Outer Mulberry) to SSW of Hove, 1994, 1997 (BS9, 18, 20, 30, 38, 98), details in chronological order as follows:

2,2,0 from *Phyllophora crispa* (the lower parts heavily encrusted with *Electra pilosa* and supporting densely packed *Mytilus edulis* (5-15 mm long)), 6.1-7.4 m BCD, Looe Gate, 2.7.1994 (BS9).

8,6,4 from a mixed sample of *Phyllophora pseudoceranoides* and *Flustra foliacea*, 8.8-10.8 m BCD, Spanner Reef, 30.7.1994 (BS18).

0,0,1 from algae (predominantly *Brongniartella byssoides*) attached to flint pebbles, 9.6 m BCD, 5 km S of Goring-by-Sea, 30.7.1994 (BS20).

1,1,0 from mixed material (including red algae, *Tubularia indivisa*, *Lichenopora radiata*, *Flustra foliacea*), 8.0-11.6 m BCD, Worthing Lumps, 3.9.1994 (BS30).

4,4,0 from mixed algae co-dominated by *Calliblepharis ciliata* and *Phyllophora pseudoceranoides*, 8.0 m BCD, western end of Worthing Lumps, 15.10.1994 (BS38).

1,0,0 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Note.

Presumed first British record.

Tegastes nanus Sars, 1904 [Sars, 1904; Ferrari *et al.*, 2007 – see note below]

15 records from a variety of sublittoral samples (including algae, hydroids, hydroid/bryozoan turf, fine sand (1,0,0, BS43)), 4.0-22.2 m BCD, Selsey Bill to the Seven Sisters, 1994, 1995, 1997 (BS3, 10, 18, 19, 24, 33-35, 43, 54, 62, 88, 96, 98, 101). Adults per sample, 1-2, with higher numbers from two samples as follows:

8,0,1 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

10,0,2 from *Heterosiphonia plumosa*, 6.7 m BCD, South-West Rocks, 1.10.1994 (BS33).

Note.

Agrees well with Spitsbergen specimens described by Ferrari *et al.* (2007), but female P3 exp-3 and enp-3 with three medial setae rather than two.

***Tegastes* sp. A**

Five sublittoral records:

1,1,0 from mixed material (including red algae and *Tubularia indivisa* with its stems heavily encrusted with *Lichenopora radiata*), 6.7-11.4 m BCD, Worthing Lumps, 3.9.1994 (BS29).

0,0,1 from mixed material (similar to above plus *Flustra foliacea*), 8.0-11.6 m BCD, Worthing Lumps, 3.9.1994 (BS30).

0,0,1 from *Tubularia indivisa*, 3.8 m BCD, SW of Birling Gap, 24.6.1995 (BS56).

0,0,1 from silt-laden hydroid (dominant)/bryozoan turf on a flint cobble, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS61).

2,0,1 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

***Tegastes* sp. B**

Four sublittoral records:

1,0,0 from silt-smothered algal/bryozoan turf, 5.0 m BCD, Outer Mulberry, 21.8.1994 (BS27).

0,0,1 from *Tubularia indivisa*, 3.8 m BCD, SW of Birling Gap, 24.6.1995 (BS56).

0,0,1 from *Nemertesia antennina* (+ a little *Rhodymenia holmesii*), 5.0-7.0 m BCD, N of Long Shoal (8 km E of Eastbourne), 22.7.1995 (BS66).

1,1,0 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Note.

A distinctive species. The female differs from all described European *Tegastes* spp. in having a seven-segmented rather than an eight-segmented antennule (Huys *et al.*, 1996); antennule in male nine-segmented.

Maxilliped endopodal claw conspicuously serrated along proximal half, the teeth increasing in size distalwards.

***Tegastes* sp. C**

0,0,1 from a mixed sample of algae (including *Ceramium* sp., *Cryptopleura ramosa*, Ectocarpales indet.) and bryozoans (*Alcyonidium diaphanum* and *Flustra foliacea*), 13.8 m BCD, East Bank, 13.7.1997 (BS96).

Note.

A golden-yellow species, 300 µm in length.

Family **TETRAGONICIPITIDAE** Lang, 1944

Phyllopodopsyllus bradyi (T. Scott, 1892) [Sars, 1907, 1911; Lang, 1965]

12,1,29 from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

1,1,0 from gravel, 6.0 m BCD, the 'Indiana' wreck, 13.7.1997 (BS92).

0,0,1 from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

Family **THALESTRIDAE** Sars, 1905

Sub-family **Dactylopusiinae** Lang, 1936

Dactylopusia tisboides (Claus, 1863) [Sars, 1905; (RH, 3.3.1994)]

Recorded from *Polysiphonia fucoides*, lower intertidal, 2.3-0.6 m ACD, Roedean, Brighton, January-March, June-December 1992, and from ephemeral algae (Ectocarpales indet., *Cladophora* sp.), 2.0-0.7 m ACD, July, August of the same year. Adults per sample of *P. fucoides*, 1-9 (maximal July, August), and of ephemeral algae, 1-4.

0,0,3 from dredged silt, 17 m BCD, off Seaford Head, 4.7.1993 (haul 6).

38 records from a variety of sublittoral samples (including algae (predominantly), hydroids, algal/bryozoan and bryozoan turf, gravel), 0.7-26.8 m BCD, Selsey Bill to Hope Point (E of Seaford Head), 1994, 1995, 1997 (BS19-23, 27-29, 31-33, 36, 37, 41, 53, 54, 58, 63, 72-74, 77-80, 83, 86, 88, 90-92, 95, 97-102). Adults per sample, 1-59 (25 samples 1-19), with higher numbers (83-519) from BS31, 53, 77, 90, 91, 99, the four highest being:

237,6,282 from mixed algae (including *Halurus equisetifolius*, *Hetersiphonia plumosa* (dominant), *Cryptopleura ramosa*), 3.6 m BCD, Mixon Hole, 17.9.1995 (BS77).

91,25,71 from mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae, mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 13.7.1997 (BS90).

62,8,46 from mixed algae (including *Calliblepharis ciliata*, *Cryptopleura ramosa*, *Halopithys incurvus*, *Cladostephus spongiosus*), 1.6 m BCD, W of Mixon Hole, 13.7.1997 (BS91).

149,33,42 from mixed algae (including *Calliblepharis ciliata*, *Cystoclonium purpureum*, *Chondrus crispus*, *Rhodomela confervoides*), 2.6-3.8 m BCD, 2 km E of Selsey Bill, 6.9.1997 (BS99).

Dactylopusia vulgaris dissimilis Brian, 1921 [Lang, 1948 as *Dactylopodia*]

Recorded from *Polysiphonia fucooides*, lower intertidal, 1.5-0.7 m ACD, Roedean, Brighton, April-July, November, December 1992, and from ephemeral Ectocarpales indet., 2.3-1.3 m ACD, May-July of the same year. Adults per sample of *P. fucooides*, 1-73 (maximal May, June), and of Ectocarpales indet., 1-5 (maximal June), the two highest numbers from *P. fucooides* being: 26,0,30 + 1 pair, 1.1 m ACD, 3.5.1992; 32,0,41, 0.8 m ACD, 1.6.1992.

Nine records from a variety of sublittoral samples (including algae, algal/bryozoan and bryozoan turf, gravel), 0.7-21.2 m BCD, Selsey Bill to Seaford Head Gullies, 1995, 1997 (BS53, 54, 58, 79, 83, 86, 90, 98, 102). Adults per sample, 1-6, with higher numbers from four samples as follows:

7,1,12 from mixed algae (including *Calliblepharis ciliata*, *Phyllophora pseudoceranooides*, *Heterosiphonia plumosa*), 5.0 m BCD, Outer Mulberry, 21.5.1995 (BS53).

22,3,18 from algae (mainly *Plocamium cartilagineum*), 0.9 m BCD, Seaford Head Gullies, 25.6.1995 (BS58).

10,0,8 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

18,0,20 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Dactylopusia vulgaris vulgaris Sars, 1905 [Sars, 1905; (RH, 3.3.1994)]

Six dredged records, 12-23 m BCD, Peacehaven to Cuckmere Haven, 4.7.1993: 28,1,9 from shell gravel (haul 1); 1,0,0 from hydroids/erect bryozoans scraped from cobbles (haul 2); 2,1,1 from shell gravel (haul 3); 2,0,9 from silt (haul 6); 1,0,1 from shell gravel (haul 8); 1,0,5 from muddy shell gravel (haul 10).

54 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan, hydroid/bryozoan and bryozoan turf, gravel (0,0,2, BS5; 1,0,0, BS36; 1,0,0, BS95), fine sand (0,0,1, BS64; 1,0,6, BS68), mixed sediment (1,0,1, BS16; 1,0,0, BS17)), 0.9-26.8 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS1-3, 5, 8-10, 13-22, 24-26, 29-36, 38, 42, 53-56, 58-68, 80, 81, 86, 88, 93, 95-98). Adults per sample, 1-56 (23 samples 1-17), with higher numbers (75-793) from BS8-10, 13-15, 19, 24, 33-35, 55, 62, 65, 67, 96, 98, the six highest being:

275,23,518 from a silty sample of algae (*Calliblepharis ciliata*, *Brongniartella byssoides*) attached to flint pebbles, 10.0 m BCD, 7 km S of Worthing, 30.7.1994 (BS19).

616,4,96 from *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (BS24).

227,5,63 from *Obelia longissima*, 8.5 m BCD, 4 km S of Shoreham, 1.10.1994 (BS34).

216,1,36 from mixed hydroids (*Halecium halecinum* (supporting densely packed muddy amphipod tubes) and *Nemertesia antennina*), 10.5-11.5 m BCD, 'The Engine' (SSW of Hastings), 22.7.1995 (BS65).

253,2,211 from silt-laden hydroids (including *Hydrallmania falcata*, *Rhizocaulus verticillatus*, *Obelia longissima*), 19.3 m BCD, 4 km S of Seaford, 23.7.1995 (BS67).

184,20,81 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Dactylopusioides macrolabris (Claus, 1866) [Lang, 1948]

3,0,1 from mixed algae (including *Calliblepharis ciliata*, *Plocamium cartilagineum*, *Spyridia filamentosa*, *Dictyota dichotoma*), 4.0 m BCD, 5 km S of Selsey Bill, 7.9.1997 (BS101).

Diarthrodes andrewi (T. Scott, 1894) [Lang, 1948]

Three sublittoral records:

43,0,26 from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

8,0,6 from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

5,1,7 from gravel, 6.0 m BCD, the 'Indiana' wreck, 13.7.1997 (BS92).

Diarthrodes nobilis (Baird, 1845) [Sars, 1906 as *Westwoodia*]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.9-0.4 m ACD, Roedean, Brighton, January-December 1992, and from ephemeral algae (Ectocarpales indet., *Cladophora* sp.), 2.0-0.7 m ACD, July of the same year. Adults per sample of *P. fucoides*, 1-145 (maximal July, October-December), and from ephemeral algae, 1-5, the two highest numbers from *P. fucoides* being: 28,0,34, 0.8 m ACD, 1.7.1992; 68,15,77, 1.5 m ACD, 9.11.1992.

Seven records from sublittoral algae, 0.7-9.6 m BCD, Selsey Bill to S of Peacehaven, 1994, 1995, 1997 (BS21, 53, 63, 83, 86, 90, 91). Adults per sample, 1-3, with a higher number as follows:

5,1,8 from algae with entrapped silty sand (*Gracilaria* sp. and *Plocamium cartilagineum* co-dominant), 2.2 m BCD, S of Peacehaven, 22.7.1995 (BS63).

Diarthrodes ponticus ponticus (Kricagin, 1873) [Lang, 1948; (RH, 18.4.1993)]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.6-0.4 m ACD, Roedean, Brighton, January-April, June-December 1992. Adults per sample, 1-12 (maximal September, October).

22 records from sublittoral samples (including algae (predominantly), algal/bryozoan turf (3,0,4, BS97), gravel supporting small algal growths (3,0,6, BS36)), Selsey Bill to E of Seaford Head, 1994, 1995, 1997 (BS20, 21, 23, 25, 28, 29, 31, 36, 38, 58, 63, 72-74, 77, 80, 83, 86, 90, 91, 97, 99). Adults per sample, 1-9, with higher numbers from two samples as follows:

25,9,13 from mixed algae (including *Halurus equisetifolius*, *Heterosiphonia plumosa* (dominant), *Cryptopleura ramosa*), 3.6 m BCD, Mixon Hole, 17.9.1995 (BS77).

68,28,19 from mixed algae (including *Calliblepharis ciliata*, *Cystoclonium purpureum*, *Chondrus crispus*, *Rhodomela confervoides*), 2.6-3.8 m BCD, 2 km E of Selsey Bill, 6.9.1997 (BS99).

Diarthrodes pygmaeus (T. & A. Scott, 1895) [Sars, 1906 as *Westwoodia pygmaea*; (RH, 18.4.1993)]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.6-0.5 m ACD, Roedean, Brighton, January, October-December 1992. Adults per sample, 1-5.

40 records from sublittoral samples (including algae (predominantly), algal/bryozoan turf, hydroids (1,0,0, BS55; 0,0,1, BS59), gravel supporting small algal growths (19,0,25, BS36); gravel (1,0,0, BS40)), 0.9-11.6 m BCD (plus one record from a greater depth, viz. 5,0,4 from hydroids, 19.2 m BCD, Mixon Hole, 17.9.1995 (BS78)), Selsey Bill to SW of Birling Gap, 1994, 1995, 1997 (BS1, 3, 9, 11, 12, 18-23, 27-31, 33, 36-41, 53-55, 58, 59, 63, 72-74, 77, 78, 80, 86, 88, 90, 91, 97, 99). Adults per sample, 1-44 (20 records, 1-9), with higher numbers from five samples as follows:

123,0,107 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

65,0,50 from *Heterosiphonia plumosa*, 6.7 m BCD, South-West Rocks, 1.10.1994 (BS33).

40,0,28 from mixed algae (including *Calliblepharis ciliata* (supporting dense epiphytic *Ceramium* sp.), *Plocamium cartilagineum*, *Cladostephus spongiosus*), 3.4 m BCD, W of Grass Banks, 2.10.1994 (BS37).

74,0,81 from mixed algae co-dominated by *Calliblepharis ciliata* and *Phyllophora pseudoceranoides*, 8.0 m BCD, western end of Worthing Lumps, 15.10.1994 (BS38).

88,0,90 from mixed algae (including *Halurus equisetifolius*, *Heterosiphonia plumosa* (dominant), *Cryptopleura ramosa*), 3.6 m BCD, Mixon Hole, 17.9.1995 (BS77).

***Diarthrodes* sp. A**

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.8-0.6 m ACD, Roedean, Brighton, April, August, September 1992. Adults per sample, 1-4.

31 records from sublittoral samples (including algae (predominantly), algal/bryozoan turf (10,0,7, BS97), bryozoan turf (1,0,0, BS98), gravel supporting small algal growths (1,0,0, BS36)), 0.7-11.6 m BCD (plus one record from a greater depth, viz. 0,0,1 from gravel/mudstone material, 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79)), Selsey Bill to E of Eastbourne, 1994, 1995, 1997 (BS9, 11, 12, 19-23, 25, 26, 28-33, 36, 37, 58, 63, 66, 72-74, 77, 79, 80, 83, 86, 97-99). Adults per sample, 1-53 (17 records 1-5), the four highest numbers being:

38,5,15 from silty algae (predominantly *Ceramium* sp.), 4.2-4.7 m BCD, western vicinity of Brighton Marina, 14.8.1994 (BS25).

26,1,20 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

17,1,19 from mixed algae (including *Rhodymenia holmesii*, *Ceramium* sp., *Spyridia filamentosa*), 3.7-4.0 m BCD, western vicinity of Brighton Marina, 16.9.1995 (BS72).

13,1,15 from mixed algae (including *Gracilaria* sp. (mainly) and *Rhodymenia holmesii*), 4.0-4.9 m BCD, western vicinity of Brighton Marina, 22.9.1995 (BS80).

Note.

Keys out in Lang (1965) to *D. nobilis* (P1 exp. one-segmented, P5 exp. with five setae), but much smaller, pale brown rather than deep reddy-brown, and A2 exp-3 with two rather than four setae, among other character differences. Length: females 510-590 μm (mean 548 μm , $n = 10$); males 410-480 μm (mean 447 μm , $n = 10$). [Length of *D. nobilis*: females 920-1000 μm (mean 958 μm , $n = 10$); males 780-860 μm (mean 811 μm , $n = 10$)].

Paradactylopodia brevicornis (Claus, 1866) [Sars, 1905 as *Dactylopusia*; Lang, 1948; (RH, 18.4.1993)]

Three records from Widewater Lagoon, Shoreham, 20.9.1997: 27,0,23 from muddy algae (*Chaetomorpha* sp. and *Cladophora* sp. co-dominant) (WLS1); 1,0,0 from sediment (black silt/mud/gravel) plus several small cockle shells (WLS2); several from muddy algae (*Enteromorpha* sp. and *Ulva* sp. co-dominant) attached to cockle shells (WLS6).

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.4-0.9 m ACD, Roedean, Brighton, June, October-December 1992. Adults per sample, 1-2.

1,0,0 from dredged muddy silt with a coarse shell fraction, 13 m BCD, Cuckmere Haven, 4.7.1993 (haul 9).

35 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan, hydroid/bryozoan and bryozoan turf, gravel, medium sand (1,0,0, BS94)), 0.7-26.8 m BCD, Selsey Bill to Seaford Head, 1994, 1995, 1997 (BS2, 12, 18-21, 24, 27-31, 35, 36, 38, 41, 53, 58, 77, 80, 83, 86, 88, 90-92, 94-100, 102). Adults per sample, 1-33 (28 records 1-9), with a higher number as follows:

162,0,63 from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

***Paradactylopodia* sp. A** (Resembles *P. oculata* (Gurney, 1927)) [Lang, 1948]

25 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan and bryozoan turf), 3.7-19.3 m BCD, Selsey Bill to SW of Birling Gap, 1994, 1995, 1997 (BS13-15, 18, 21, 25, 26, 29, 31, 33, 38, 54-56, 59, 62, 67, 72, 74, 75, 78, 80, 86, 97, 98). Adults per sample, 1-8 (19 records 1-3), with higher numbers from three samples as follows:

19,0,5 from *Hydrallmania falcata* (a rather silty sample), 8.6-9.7 m BCD, SW of Looe Gate, 3.7.1994 (BS13).

18,2,3 from hydroids (mainly *Nemertesia antennina*), 6.5 m BCD, SW of Birling Gap, 24.6.1995 (BS55).

67,23,28 (in company with *P. brevicornis* 13,0,10 and *P. sp. B* 0,0,1) from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Notes.

1. Resembles *P. oculata* (Gurney) with its two lens-like structures on the frontal part of the cephalothorax, but with the following clear differences: female A1 with six segments rather than five; P4 exp-3 (both sexes) with three inner setae rather than two; male P5 exp. with seven setae (two inner, two terminal, three outer) rather than six (two inner, two terminal, two outer (the proximal one very small)).

2. Length: females 450-590 µm; males 370-410 µm.

***Paradactylopodia* sp. B**

Seven sublittoral records:

1,0,0 from mixed algae (including *Halurus equisetifolius*, *Heterosiphonia plumosa* (dominant), *Cryptopleura ramosa*), 3.6 m BCD, Mixon Hole, 17.9.1995 (BS77).

4,0,7 from a mixed sample of algae (*Calliblepharis ciliata*, filamentous reds, *Taonia atomaria*) and erect bryozoans (*Bugula* spp.), 0.7 m BCD, W of Selsey Bill (close in), 12.7.1997 (BS83).

3,0,0 (in company with *P. brevicornis* 3,1,0 and *P. sp. A* 1,0,0) from mixed algae (including *Phyllophora pseudoceranoides*, *Heterosiphonia plumosa*, *Cryptopleura ramosa*, *Delesseria sanguinea*), 9.6 m BCD, 500 m NE of Outer Owers buoy, 12.7.1997 (BS86).

1,0,1 (in company with *P. brevicornis* 5,0,3) from mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae, mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 13.7.1997 (BS90).

1,0,0 (in company with *P. brevicornis* 2,0,1 and *P. sp. A* 1,0,0) from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

0,0,1 (in company with *P. brevicornis* 13,0,10 and *P. sp. A* 67,23,28) from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

0,0,2 (in company with *P. brevicornis* 6,0,1) from gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (BS100).

Note.

Yellowish with crimson body bands. Length: females 540-630 µm; males 480-530 µm.

Sub-family **Pseudotachidiinae** Lang, 1936

Dactylopodella flava (Claus, 1866) [Sars, 1905; Hicks, 1989 (amendments)]

Twice from *Polysiphonia fucoides*, lower intertidal, Roedean, Brighton: 0,0,1, 0.7 m ACD, 29.8.1992; 0,0,1, 1.0 m ACD, 26.10.1992.

Two dredged records, 4.7.1993: 1,0,0 from hydroids/erect bryozoans scraped from cobbles, 15 m BCD, off Peacehaven (haul 2); 1,1,0 from small hydroids scraped from stones, 16 m BCD, off Hope Point (E of Seaford Head) (haul 7).

47 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan, hydroid/bryozoan and bryozoan turf, gravel (1,0,0, BS92; 3,0,0, BS95), gravel/bryozoan-encrusted cobble (46,0,3, BS102), silty sand (1,0,0, BS87)), 0.7-26.8 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS9-15, 18-20, 23-27, 29-31, 33, 38, 53-56, 58-61, 63, 65-67, 72-74, 78, 80, 81, 83, 86-88, 92, 95, 97, 98, 102). Adults per sample, 1-66 (22 samples 1-5), with higher numbers from three samples as follows:

99,9,61 from *Phyllophora crispa* (the lower parts heavily encrusted with *Electra pilosa* and supporting densely packed *Mytilus edulis* (5-15 mm long)), 6.1-7.4 m BCD, Looe Gate, 2.7.1994 (BS9).

105,36,54 from a similar sample to above, the *Phyllophora crispa* additionally supporting epiphytic *Plocamium cartilagineum* and other algae, same depth and location, 2.7.1994 (BS10).

133,9,76 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Dactylopodella sp. A (Close to *D. ornata* (Norman & T. Scott, 1905)) [Lang, 1948; Hicks, 1989]

2,2,0 from dredged shell gravel, 13 m BCD, Cuckmere Haven, 4.7.1993 (haul 8).

11 records from a variety of sublittoral samples (including gravel (seven records), algae (2,0,3, BS22; 1,0,0, BS77), algal/bryozoan turf (1,0,0, BS97), the hydroid *Nemertesia antennina* (1,1,0, BS60)), 2.4-21.2 m

BCD, Selsey Bill to the Seven Sisters, 1994, 1995, 1997 (BS22, 36, 40, 60, 71, 77, 79, 92, 97, 100, 102). Adults per sample, 1-9, with higher numbers from three samples as follows:

16,0,5 from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

40,0,33 (accompanied by *D. flava* 1,0,0) from gravel, 6.0 m BCD, the 'Indiana' wreck, 13.7.1997 (BS92).

96,2,16 (accompanied by *D. flava* 46,0,3) from a heterogeneous sample comprised of silty gravel and a cobble encrusted with the bryozoan *Cellepora pumicosa*, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102).

Note.

Close to *D. ornata* (Norman & T. Scott), but P1 enp-2 with a large spinulose claw and geniculate seta of subequal length (rather than a smooth claw shorter than the geniculate seta), and the female P2 enp. with two segments (rather than three), with a notch in the inner and outer margin of the second segment, indicating the location of fusion between two segments, as found in *D. flava* (Claus). These differences agree with the 'ornata-like' specimens examined by Hicks (1989) who synonymized *D. ornata* with *D. flava*. The two are recorded separately here, differing not only in colour, but also in size (as well as habitat preference, *D. sp. A*, unlike *D. flava*, particularly favouring gravel – see records):

D. sp. A: yellow with crimson band posteriorly on cephalothorax. Length: females 470-590 µm (mean 530 µm, *n* = 30); males 410-480 µm (mean 443 µm, *n* = 25).

D. flava: yellow to yellowish. Length: females 390-480 µm (mean 421 µm, *n* = 30); males 310-410 µm (mean 365 µm, *n* = 25).

Sub-family **Rhynchothalestrinae** Lang, 1948

Rhynchothalestris helgolandica (Claus, 1863) [Huys, 1990]

10 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan, hydroid/bryozoan and bryozoan turf), 5.0-22.2 m BCD, SE of Pagham village (Outer Mulberry) to S of Seaford, 1994, 1995, 1997 (BS3, 24, 27, 53, 54, 67, 88, 96, 97, 98). Adults per sample, 1-8, with higher numbers from three samples, all from the Outer Mulberry as follows:

43,21,19 from mixed algae (including *Calliblepharis ciliata*, *Phyllophora pseudoceranoides*, *Heterosiphonia plumosa*), 5.0 m BCD, 21.5.1995 (BS53).

17,6,13 + 1 pair from silt-smothered algal/bryozoan turf, 6.0 m BCD, 21.5.1995 (BS54).

90,0,0 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, 27.7.1997 (BS98).

Sub-family **Thalestrinae** Lang, 1936

Parathalestris clausi (Norman, 1868) [Sars, 1905]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.6-0.6 m ACD, Roedean, Brighton, February, April, May, October-December 1992, and from ephemeral Ectocarpales indet. (1,1,0 only), 1.6 m ACD, May of the same year. Adults per sample, 1-3.

Two sublittoral records:

5,4,3 from mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae, mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 13.7.1997 (BS90).

2,1,4 from mixed algae (including *Calliblepharis ciliata*, *Cryptopleura ramosa*, *Halopithys incurvus*, *Cladostephus spongiosus*), 1.6 m BCD, W of Mixon Hole, 13.7.1997 (BS91).

Parathalestris harpacticoides (Claus, 1863) [Sars, 1905]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.6-0.5 m ACD, Roedean, Brighton, January-December 1992. Adults per sample, 1-13.

28 records from sublittoral samples (27 from algae or material inclusive of algae, one from bryozoan turf (1,0,0, BS98)), 0.7-11.6 m BCD, Selsey Bill to E of Seaford Head, 1994, 1995, 1997 (BS1, 9, 11, 12, 18, 22, 23, 27, 30, 31, 33, 37, 38, 53, 58, 63, 73, 74, 77, 80, 83, 86, 88, 90, 91, 98, 99, 101). Adults per sample, 1-44 (13 records 1-3), with higher numbers from three samples as follows:

38,4,38 from mixed algae (including *Halurus equisetifolius*, *Heterosiphonia plumosa* (dominant), *Cryptopleura ramosa*), 3.6 m BCD, Mixon Hole, 17.9.1995 (BS77).

40,29,27 from mixed algae (including *Phyllophora pseudoceranoides*, *Heterosiphonia plumosa*, *Cryptopleura ramosa*, *Delesseria sanguinea*), 9.6 m BCD, 500 m NE of Outer Owers buoy, 12.7.1997 (BS86).

40,5,80 from mixed algae (including *Calliblepharis ciliata*, *Plocamium cartilagineum*, *Spyridia filamentosa*, *Dictyota dichotoma*), 4.0 m BCD, 5 km S of Selsey Bill, 7.9.1997 (BS101).

Parathalestris hibernica (Brady & Robertson, 1873) [Sars, 1905; (RH, 27.1.1993)]

Two records from Ectocarpales indet., lower intertidal, Roedean, Brighton: 9,5,6, 1.6 m ACD, and 6,2,5, 1.3 m ACD, 3.5.1992.

Eight records from a variety of sublittoral samples (including algae, algal/bryozoan and bryozoan turf, gravel/mudstone material, gravel), 1.6-21.2 m BCD, Selsey Bill to Worthing, 1994, 1995, 1997 (BS19, 23, 54, 79, 91, 92, 97, 98). Adults per sample, 1-4, with a higher number as follows:

6,0,7 from mixed algae (including *Heterosiphonia plumosa* and *Brongniartella byssoides*), 4.5 m BCD, Outer Mulberry, 31.7.1994 (BS23).

Parathalestris intermedia Gurney, 1930 [Lang, 1948]

Recorded from *Polysiphonia fucoides*, lower intertidal, 1.6-0.7 m ACD, Roedean, Brighton, May-October 1992, and from ephemeral algae (Ectocarpales indet., *Cladophora* sp.), 2.0-0.7 m ACD, May-July of the same year. Adults per sample of *P. fucoides*, 1-22 (maximal June), and of ephemeral algae, 2-71. The three highest numbers from the latter being: 43,21,25 + 3 pairs and 11,4,46 + 2 pairs from Ectocarpales indet., 1.3 m ACD, 3.5.1992 and 1.6.1992 respectively; 20,2,22 from *Cladophora* sp., 0.7 m ACD, 1.7.1992.

Two sublittoral records, single specimens only:

1,0,0 from algae with entrapped silty sand (*Gracilaria* sp. and *Plocamium cartilagineum* co-dominant), 2.2 m BCD, S of Peacehaven, 22.7.1995 (BS63).

1,0,0 from gravel, 6.0 m BCD, the 'Indiana' wreck, 13.7.1997 (BS92).

Phyllothalestris mysis (Claus, 1863) [Sars, 1905]

Three records from lower intertidal algae, 1.4-0.7 m ACD, Roedean, Brighton: 1,1,0 from Ectocarpales indet., 1.6.1992; 1,0,0 and 1,1,0 from *Polysiphonia fucooides*, 1.7.1992 and 9.11.1992 respectively.

20 sublittoral records from algae or material inclusive of algae, 1.0-11.4 m BCD (plus one record from a greater depth, viz. 4,0,0 from gravel/bryozoan-encrusted cobble, 19.6 m BCD, Whirlpool Hole, 7.9.1997 (BS102)), Selsey Bill to Peacehaven, 1994, 1995, 1997 (BS12, 19, 20, 23, 25, 27, 29, 31, 33, 36, 38, 54, 63, 77, 80, 86, 90, 91, 99, 102). Adults per sample, 1-13 (16 records 1-4), with a higher number as follows:

46,11,11 from mixed algae (including *Calliblepharis ciliata*, *Cystoclonium purpureum*, *Chondrus crispus*, *Rhodomela confervoides*), 2.6-3.8 m BCD, 2 km E of Selsey Bill, 6.9.1997 (BS99).

Thalestris longimana Claus, 1863 [Sars, 1905]

Recorded from *Polysiphonia fucooides*, lower intertidal, 1.5-0.5 m ACD, Roedean, Brighton, January-July, September-December 1992, and from ephemeral Ectocarpales indet., 1.9-1.3 m ACD, May and June of the same year. Adults per sample of *P. fucooides*, 1-88 (maximal March-June (15-88), otherwise scarce (1-6) save increasing numbers February (13-19)); adults per sample of Ectocarpales indet., 1-13. The four highest numbers from *P. fucooides*, 1.2-0.6 m ACD: 26,20,26 + 1 pair, 19.3.1992; 45,41,31, 16.4.1992; 26,20,14, 3.5.1992; 48,4,39 + 1 pair, 1.6.1992.

16 sublittoral records (14 from algae, one from hydroids (0,0,1, BS55), one from gravel (1,0,0, BS92)), 0.7-10.0 m BCD (plus one record from a greater depth, viz. 6,0,7 from clean shell gravel, 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95)), Selsey Bill to SW of Birling Gap, 1994, 1995, 1997 (BS9-12, 19, 25, 41, 53, 55, 58, 63, 83, 86, 88, 90, 92, 95). Adults per sample, 1-15 (nine records 1-2).

Thalestris rufoviolascens Claus, 1866 [Sars, 1905]

16 sublittoral records (15 from algae or material inclusive of algae, one from bryozoan turf (1,0,0, BS98)), 0.9-11.6 m BCD, SE of Paghham village (Outer Mulberry) to Seaford Head Gullies, 1994, 1995, 1997 (BS1, 9, 18, 20, 21, 27, 28, 30, 31, 36, 38, 53, 54, 58, 63, 98). Adults per sample, 1-9 (11 records 1-2), with higher numbers from two samples as follows:

13,7,7 from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

16,0,0 from mixed algae co-dominated by *Calliblepharis ciliata* and *Phyllophora pseudoceranoides*, 8.0 m BCD, western end of Worthing Lumps, 15.10.1994 (BS38).

Family **THOMPSONULIDAE** Lang, 1944

Thompsonula hyaenae (I. C. Thompson, 1889) [Huys & Gee, 1990]

0,0,1 from *Polysiphonia fucooides*, lower intertidal, 0.9 m ACD, Roedean, Brighton, 6.5.1993.

Numerous (with numerous *Canuella perplexa*) from saturated fine clean sand, lower intertidal, 0.7-0.6 m ACD, Kemp Town, Brighton, 19.8.1993.

Three sublittoral records:

2,0,3 from fine sand, 6.5 m BCD, 2 km SSE of Roedean School, Brighton, 6.5.1995 (BS45).

3,0,1 from fine sand, 6.2 m BCD, E of Belle Tote, Beachy Head, 24.6.1995 (BS57).

2,0,0 from algae with entrapped silty sand (*Gracilaria* sp. and *Plocamium cartilagineum* co-dominant), 2.2 m BCD, S of Peacehaven, 22.7.1995 (BS63).

Family **TISBIDAE** Stebbing, 1910

Sub-family **Idyanthinae** Lang, 1944

Idyanthe pusilla (Sars, 1905) [Sars, 1905 as *Idyopsis*]

Two records from the Outer Mulberry: 1,1,0 from silt-smothered algal/bryozoan turf, 6.0 m BCD, 21.5.1995 (BS54); 1,0,2 from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, 27.7.1997 (BS98).

Zosime sp. A

Twice from silt-smothered algal/bryozoan turf, Outer Mulberry: 0,0,3, 5.0 m BCD, 21.8.1994 (BS27); 3,2,1, 6.0 m BCD, 21.5.1995 (BS54).

Sub-family **Tisbinae** Lang, 1944

Sacodiscus fasciatus (Norman, 1868) [Sars, 1905 as *Aspidiscus*]

Five sublittoral records:

1,0,0 (in company with *S. littoralis* 2,1,0) from mixed algae (including *Calliblepharis ciliata* (dominant) and *Plocamium cartilagineum*), 4.1 m BCD, 1.5 km SSE of Roedean School, Brighton, 6.5.1995 (BS41).

6,3,15 from algae (mainly *Plocamium cartilagineum*), 0.9 m BCD, Seaford Head Gullies, 25.6.1995 (BS58).

5,1,2 from *Nemertesia antennina*, 6.4 m BCD, Seaford Head Gullies, 25.6.1995 (BS59).

1,0,0 from silt-laden *Nemertesia antennina*, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS60).

1,1,2 from mixed algae with basally entrapped sand (including *Plocamium cartilagineum*, *Heterosiphonia plumosa*, *Cladostephus spongiosus*, *Taonia atomaria*), 6.5 m BCD, Outer Mulberry, 12.7.1997 (BS88).

Sacodiscus littoralis (Sars, 1904) [Sars, 1904 as *Aspidiscus*]

Four sublittoral records:

2,1,0 (in company with *S. fasciatus* 1,0,0) from mixed algae (including *Calliblepharis ciliata* (dominant) and *Plocamium cartilagineum*), 4.1 m BCD, 1.5 km SSE of Roedean School, Brighton, 6.5.1995 (BS41).

2,1,2 from mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae, mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 13.7.1997 (BS90).

1,1,2 from mixed algae (including *Calliblepharis ciliata*, *Cryptopleura ramosa*, *Halopithys incurvus*, *Cladostephus spongiosus*), 1.6 m BCD, W of Mixon Hole, 13.7.1997 (BS91).

0,0,4 from mixed algae (including *Calliblepharis ciliata*, *Plocamium cartilagineum*, *Spyridia filamentosa*, *Dictyota dichotoma*), 4.0 m BCD, 5 km S of Selsey Bill, 7.9.1997 (BS101).

Note.

1,1,0 from *Polysiphonia fucooides*, lower intertidal, 1.1 m ACD, Roedean, Brighton, 20.11.1984 (Ventham, 1990).

Scutellidium longicauda longicauda (Philippi, 1840) [Sars, 1905 as *Psamathe*; Lang, 1948]

Three records from *Polysiphonia fucooides*, lower intertidal, Roedean, Brighton: 2,1,0, 1.6 m ACD, and 2,0,0, 0.7 m ACD, 15.9.1993; 0,0,1, 1.7 m ACD, 11.11.1993.

10 records from sublittoral algae, 1.0-9.6 m BCD, Selsey Bill to Brighton, 1994, 1995, 1997 (BS1, 20, 22, 37, 77, 80, 90, 91, 99, 101). Adults per sample, 1-32 (BS1, 20, 22, 77, 80, 91), with higher numbers as follows:

49,28,60 from mixed algae (including *Calliblepharis ciliata* (supporting dense epiphytic *Ceramium* sp.), *Plocamium cartilagineum*, *Cladostephus spongiosus*), 3.4 m BCD, W of Grass Banks, 2.10.1994 (BS37).

79,46,84 from mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae, mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 13.7.1997 (BS90).

280,188,245 from mixed algae (including *Calliblepharis ciliata*, *Cystoclonium purpureum*, *Chondrus crispus*, *Rhodomela confervoides*), 2.6-3.8 m BCD, 2 km E of Selsey Bill, 6.9.1997 (BS99).

73,45,108 from mixed algae (including *Calliblepharis ciliata*, *Plocamium cartilagineum*, *Spyridia filamentosa*, *Dictyota dichotoma*), 4.0 m BCD, 5 km S of Selsey Bill, 7.9.1997 (BS101).

Tisbe furcata furcata (Baird, 1837) [Dahms *et al.*, 1991]

Seven records from *Polysiphonia fucooides* and two from Ectocarpales indet.(indicated), lower intertidal, 1.4-0.7 m ACD, Roedean, Brighton: 0,0,2, 19.3.1992; 0,0,1, 21.3.1992; 2,0,1, 16.4.1992; 3,0,2, 2,1,2 and 1,0,0 (Ectocarpales), 3.5.1992; 73,30,45, 5,3,9 and 0,0,1 (Ectocarpales), 1.6.1992.

27 records from a variety of sublittoral samples (including algae, hydroids, algal/bryozoan and hydroid/bryozoan turf, fine sand (0,0,1, BS48), a collection of empty tests, recently dead and moribund individuals of *Echinocardium cordatum* from the surface of fine sand (1,1,1, BS49)), 0.7-13.8 m BCD, Selsey Bill to SSW of Hastings, 1994, 1995, 1997 (BS1, 8-13, 25, 31, 41, 42, 48, 49, 53-55, 58-61, 63, 65, 83, 86, 88, 90, 96). Adults per sample, 1-31 (18 samples 1-10), with higher numbers from four samples as follows:

90,46,19 (with *Tisbe* cf. *longicornis* 0,0,1, *T. pentataenia* 62,25,2 and *T. sp. C* 1,1,0) from mixed algae (including *Calliblepharis ciliata*, *Phyllophora pseudoceranoides*, *Heterosiphonia plumosa*), 5.0 m BCD, Outer Mulberry, 21.5.1995 (BS53).

56,26,9 (with *T. pentataenia* 26,18,6) from silt-smothered algal/bryozoan turf, 6.0 m BCD, Outer Mulberry, 21.5.1995 (BS54).

111,37,6 (with *T. pentataenia* 41,14,4) from silt-laden *Nemertesia antennina*, 6.8 m BCD, E of Cuckmere Haven, off the Seven Sisters, 25.6.1995 (BS60).

39,15,14 (with *T. cf. longicornis* 0,0,1 and *T. cf. tenera* 105,66,62) from a mixed sample of algae (*Calliblepharis ciliata*, filamentous reds, *Taonia atomaria*) and erect bryozoans (*Bugula* spp.), 0.7 m BCD, W of Selsey Bill (close in), 12.7.1997 (BS83).

***Tisbe gracilis*-group sp. A** [Volkman, 1979]

Seven sublittoral records:

1,1,0 (with *Tisbe furcata* 2,1,0) from a mixed sample (*Phyllophora pseudoceranoides* (mainly) and small hydroid growths), 7.3 m BCD, 5 km S of Angmering-on-Sea, 14.5.1994 (BS1).

9,4,10 from a mixed sample of red algae (including *Phyllophora pseudoceranoides* (supporting epiphytic *Plocamium cartilagineum*) and *Spyridia filamentosa*) and the hydroid *Sertularia argentea*, 8.9 m BCD, 5 km S of Littlehampton, 14.5.1994 (BS2).

0,0,5 (with *T. pentataenia* 31,6,17, *T. cf. tenera* 6,0,4 and *T. sp. A* 1,0,1) from a mixed sample of *Phyllophora pseudoceranoides* and *Flustra foliacea*, 8.8-10.8 m BCD, Spanner Reef, 30.7.1994 (BS18).

0,0,1 (with *T. pentataenia* 87,21,7) from *Rhodymenia holmesii*, 3.6-4.1 m BCD, western vicinity of Brighton Marina, 16.9.1995 (BS73).

0,0,1 (with *T. pentataenia* 126,54,34 and *T. cf. tenera* 0,0,8) from mixed algae (including *Gracilaria* sp. (mainly) and *Rhodymenia holmesii*), 4.0-4.9 m BCD, western vicinity of Brighton Marina, 22.9.1995 (BS80).

7,1,12 (with *T. furcata* 5,2,2, *T. cf. longicornis* 3,2,2, *T. pentataenia* 19,6,6, *T. cf. tenera* 26,23,17 and *T. sp. A* 1,1,0) from mixed algae (including *Phyllophora pseudoceranoides*, *Heterosiphonia plumosa*, *Cryptopleura ramosa*, *Delesseria sanguinea*), 9.6 m BCD, 500 m NE of Outer Owers buoy, 12.7.1997 (BS86).

0,0,1 (with *T. pentataenia* 0,0,1, *T. cf. tenera* 9,2,4 and *T. sp. A* 29,13,21) from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (BS98).

Notes.

1. Does not key out in Volkman (1979) to species. Close to *T. gracilis* (T. Scott, 1895) with differences including female P1 basis inner margin with few fairly strong spinules rather than fine more numerous spinules, and caudal ramus ventral seta tiny rather than well developed.
2. Length: females 730-870 µm (one 940 µm, BS2); males 540-710 µm.

Tisbe holothuriae Humes, 1957 [Humes, 1957; Bergmans, 1979; (RH, 12.5.1998)]

Recorded from six out of seven samples collected from Widewater Lagoon, Shoreham, 20.9.1997: 58,14,86 from muddy algae (*Chaetomorpha* sp. and *Cladophora* sp. co-dominant) (WLS1); 5,4,3 from sediment (black silt/mud/gravel) plus several small cockle shells (WLS2); 38,7,30 from clean algae (mainly *Cladophora* sp.) (WLS3); 4,0,0 from sediment (black silt/mud) (WLS4); 130,46,139 from muddy algae (*Enteromorpha* sp. and *Ulva* sp. co-dominant) attached to cockle shells (WLS6); 1,0,1 from sediment (black silt/mud) plus two live cockles with algae (mainly *Enteromorpha* sp.) attached (WLS7).

Seven records from a variety of sublittoral samples (including algae, algal/bryozoan turf, gravel), 1.6-9.4 m BCD (plus one deeper record, viz. 1,1,1 (with *Tisbe cf. longicornis* 0,0,1) from gravel/mudstone material,

21.2 m BCD, Mixon Hole, 17.9.1995 (BS79)), SE of Selsey Bill to SW of Shoreham, 1994, 1995, 1997 (BS22, 31, 36, 79, 91, 92, 97, 99). Adults per sample, 1-2, save several from three samples as follows:

7,1,5 (with *T. cf. tenera* 317,118,129) from mixed algae co-dominated by *Plocamium cartilagineum* and *Ceramium* sp., 2.4 m BCD, 2 km SSW of Angmering-on-Sea, 30.7.1994 (BS22).

2,1,3 (with *T. pentataenia* 1,1,0) from gravel, 6.0 m BCD, the 'Indiana' wreck, 13.7.1997 (BS92).

3,1,1 (with *T. cf. longicornis* 0,0,1, *T. cf. tenera* 14,4,1 and *T. sp.A* 3,2,3) from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Tisbe cf. longicornis (T. & A. Scott, 1895) [Sars, 1905 as *Idya*]

Eight records from a variety of sublittoral samples (including algae, material inclusive of algae, gravel), 0.7-26.8 m BCD, Selsey Bill to SE of Pagham village (Outer Mulberry), 1994, 1995, 1997 (BS23, 53, 79, 83, 86, 90, 95, 97), details in chronological order as follows:

1,0,2 (with *Tisbe cf. tenera* 100,32,51) from mixed algae (including *Heterosiphonia plumosa* and *Brongniartella byssoides*), 4.5 m BCD, Outer Mulberry, 31.7.1994 (BS23).

0,0,1 (with *T. furcata* 90,46,19, *T. pentataenia* 62,25,2 and *T. sp. C* 1,1,0) from mixed algae (including *Calliblepharis ciliata*, *Phyllophora pseudoceranoides*, *Heterosiphonia plumosa*), 5.0 m BCD, Outer Mulberry, 21.5.1995 (BS53).

0,0,1 (with *T. holothuriae* 1,1,1) from gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (BS79).

0,0,1 (with *T. furcata* 39,15,14 and *T. cf. tenera* 105,66,62) from a mixed sample of algae (*Calliblepharis ciliata*, filamentous reds, *Taonia atomaria*) and erect bryozoans (*Bugula* spp.), 0.7 m BCD, W of Selsey Bill (close in), 12.7.1997 (BS83).

3,2,2 (with *T. furcata* 5,2,2, *T. gracilis*-group sp. A 7,1,12, *T. pentataenia* 19,6,6, *T. cf. tenera* 36,23,17 and *T. sp. A* 1,1,0) from mixed algae (including *Phyllophora pseudoceranoides*, *Heterosiphonia plumosa*, *Cryptopleura ramosa*, *Delesseria sanguinea*), 9.6 m BCD, 500 m NE of Outer Owers buoy, 12.7.1997 (BS86).

3,0,2 (with *T. furcata* 0,0,2 and *T. cf. tenera* 83,24,31) from mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae, mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 13.7.1997 (BS90).

0,0,1 (with *T. sp. D* 24,1,36) from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

0,0,1 (with *T. holothuriae* 3,1,1, *T. cf. tenera* 14,4,1 and *T. sp. A* 3,2,3) from silt-smothered algal/bryozoan turf, 6.4 m BCD, Outer Mulberry, 27.7.1997 (BS97).

Tisbe cf. minor (T. & A. Scott, 1896) [Sars, 1905 as *Idya*]

Two records from Ectocarpales indet., lower intertidal, 2.0-1.9 m ACD, Roedean, Brighton, 1.7.1992: 1,0,0 (with *T. cf. tenera* 0,0,1); 5,0,2.

Tisbe pentataenia Volkmann-Rocco, 1973 [Volkmann-Rocco, 1973]

Five records from *Polysiphonia fucooides*, lower intertidal, 1.0-0.6 m ACD, Roedean, Brighton: 1,0,0 (with *Tisbe* cf. *tenera* 4,1,5), 1.7.1992; 8,3,0 (with *T.* cf. *tenera* 23,17,7), 1.8.1992; 2,2,1 and 6,0,1, 27.9.1992; 1,1,0, 26.10.1992.

38 records from a variety of sublittoral samples (including algae (yielding the highest numbers), hydroids, algal/bryozoan turf, gravel (1,0,4, the gravel supporting small algal growths (BS36); 1,1,0 (BS92)), 0.9-11.6 m BCD, Selsey Bill to E of Eastbourne, 1994, 1995, 1997 (BS4, 9-13, 18, 19, 25-27, 29-31, 33, 36-38, 41, 53-55, 58-61, 63, 66, 72-74, 80, 86, 88, 91, 92, 98, 101). Adults per sample, 1-32 (16 samples 1-5), with higher numbers (45-195) from BS12, 18, 53, 58, 60, 63, 73, 74, 80, the four highest being:

68,3,5 (with *T. furcata* 9,2,0 and *T.* cf. *tenera* 0,0,1) from silty mixed algae (including *Calliblepharis ciliata* and *Plocamium cartilagineum*), 3.2-4.0 m BCD, S of Jenny Ground, 2.7.1994 (BS12).

183,28,12 (with *T. furcata* 17,5,12) from algae (mainly *Plocamium cartilagineum*), 0.9 m BCD, Seaford Head Gullies, 25.6.1995 (BS58).

87,21,7 (with *T. gracilis*-group sp.A 0,0,1) from *Rhodymenia holmesii*, 3.6-4.1 m BCD, western vicinity of Brighton Marina, 16.9.1995 (BS73).

126,54,34 (with *T. gracilis*-group sp. A 0,0,1 and *T.* cf. *tenera* 0,0,8) from mixed algae (including *Gracilaria* sp. (mainly) and *Rhodymenia holmesii*), 4.0-4.9 m BCD, western vicinity of Brighton Marina, 22.9.1995 (BS80).

Notes.

1. Volkmann-Rocco (1973, p. 344, fig. 12, b1-b3) illustrated variability of the seminal receptacle of *T. pentataenia* females from Roscoff. Interestingly, of the large number of fully examined Sussex females (including intertidal (Brighton, 1992) and sublittoral (Selsey Bill to E of Eastbourne, 1994, 1995, 1997), all conformed to the variation shown in fig. 12, b3.

2. Length: females 730-880 µm; males 440-560 µm. Volkmann-Rocco's (1973) specimens: Roscoff females 950-1150 µm and males c. 650 µm; Banyuls-sur-Mer females 800-920 µm ($n = 9$).

Tisbe cf. *tenera* (Sars, 1905) [Sars, 1905 as *Idya*; Lang, 1948]

Seven records from *Polysiphonia fucooides*, lower intertidal, 2.3-0.5 m ACD, Roedean, Brighton: 4,1,5 (with *Tisbe pentataenia* 1,0,0) and 11,2,5, 1.7.1992; 23,17,7 (with *T. pentataenia* 8,3,0), 23,17,4, 3,3,1 and 2,0,4, 1.8.1992; 1,0,2, 29.8.1992. Four records from ephemeral algae, lower intertidal, 2.0-0.7 m ACD, same location: 0,0,1 (with *T.* cf. *minor* 1,0,0), 1,1,3 and 2,1,1 from Ectocarpales indet, 1.7.1992; 0,0,1 from *Cladophora* sp., 1.7.1992.

34 records from a variety of sublittoral samples (including algae, material inclusive of algae, mixed hydroid/erect bryozoans (0,0,1, BS26), bryozoan turf (9,2,4, BS98)), 0.7-13.8 m BCD, Selsey Bill to S of Peacehaven, 1994, 1995, 1997 (BS11, 12, 18-23, 25-33, 36-38, 63, 72, 74, 80, 83, 86, 88, 90, 91, 96-99, 101). Adults per sample, 1-53 (19 samples 1-15), with higher numbers (75-659) from BS20-23, 31, 37, 83, 90, 91, 99, the four highest being:

317,118,129 (with *T. holothuriae* 7,1,5) from mixed algae co-dominated by *Plocamium cartilagineum* and *Ceramium* sp., 2.4 m BCD, 2 km SSW of Angmering-on-Sea, 30.7.1994 (BS22).

324,172,335 (with *T. furcata* 0,0,1, *T. holothuriae* 1,0,0 and *T. pentataenia* 7,3,3) from silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (BS31).

409,174,182 (with *T. pentataenia* 22,9,5) from mixed algae (including *Calliblepharis ciliata* (supporting dense epiphytic *Ceramium* sp.), *Plocamium cartilagineum*, *Cladostephus spongiosus*), 3.4 m BCD, W of Grass Banks, 2.10.1994 (BS37).

149,46,57 (with *T. holothuriae* 0,0,2 and *T. pentataenia* 0,0,1) from mixed algae (including *Calliblepharis ciliata*, *Cryptopleura ramosa*, *Halopithys incurvus*, *Cladostephus spongiosus*), 1.6 m BCD, W of Mixon Hole, 13.7.1997 (BS91).

***Tisbe* sp. A**

11 records from a variety of sublittoral samples (including algae, algal/bryozoan, hydroid/bryozoan and bryozoan turf, mixed material), 2.6-22.2 m BCD, E of Selsey Bill to Brighton, 1994, 1997 (BS8-10, 18, 24, 27, 29, 86, 97-99). Adults per sample, 1-2, save the following two records from the Outer Mulberry, 27.7.1997:

3,2,3 (with *Tisbe holothuriae* 3,1,1, *T. cf. longicornis* 0,0,1 and *T. cf. tenera* 14,4,1) from silt-smothered algal/bryozoan turf, 6.4 m BCD (BS97).

29,13,21 (with *T. gracilis*-group sp. A 0,0,1, *T. pentataenia* 0,0,1 and *T. cf. tenera* 9,2,4) from silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD (BS98).

Note.

Length: females 590-660 µm; males 440-490 µm.

***Tisbe* sp. B**

10,1,2 (with *Tisbe holothuriae* 1,0,0, *T. pentataenia* 1,0,4 and *T. cf. tenera* 1,0,0) from gravel (flint – including some near pebble-sized stones supporting small algal growths), 9.4 m BCD, W of College Rocks, 2.10.1994 (BS36).

Note.

A small species, P1 enp-3 with both spines strongly penicillate. Length: females 470-550 µm; both males 410 µm.

***Tisbe* sp. C**

1,1,0 (with *Tisbe furcata* 90,46,19, *T. cf. longicornis* 0,0,1 and *T. pentataenia* 62,25,2) from mixed algae (including *Calliblepharis ciliata*, *Phyllophora pseudoceranoides*, *Heterosiphonia plumosa*), 5.0 m BCD, Outer Mulberry, 21.5.1995 (BS53).

2,0,0 (with *T. pentataenia* 1,0,1) from *Nemertesia antennina* (+ a little *Rhodymenia holmesii*), 5.0-7.0 m BCD, N of Long Shoal (8 km E of Eastbourne), 22.7.1995 (BS66).

Note.

Length: 550, 590, 650 µm, the latter specimen from BS53.

***Tisbe* sp. D**

24,1,36 (with *Tisbe cf. longicornis* 0,0,1) from clean shell gravel (small bivalves up to 10 mm in length and other small shells and fragments), 26.8 m BCD, Shoal of the Lead, 13.7.1997 (BS95).

Note.

Length: females 610-740 µm; males 470-560 µm.

SUMMARY OF PRESUMED FIRST BRITISH RECORDS AND UNIDENTIFIED SPECIES

Of the 273 species listed, 183 are identified to species level (15 provisionally), 61 to genus (two provisionally) and 29 to family/sub-family (one provisionally).

Presumed first British records:

- Ameiridae, Ameirinae: *Ameira parvula nana* Willey; *Ameiropsyllus monardi* Bodin.
- Ectinosomatidae: *Ectinosoma reductum reductum* Bozic; *Halophytophilus fusiformis* Brian; *Peltobradya bryozoophila* Médioni & Soyer.
- Laophontidae, Laophontinae: *Heterolaophonte curvata curvata* (Douwe); *Laophonte brevifurca* Sars; *Heterolaophonte brevipes* Roe (apart from earlier records from the Brighton intertidal, 1983-1985 (Ventham, 1990)).
- Rhizotrichidae: *Rhizothrix wilsoni* Bodin.
- Tegastidae: *Tegastes flavidus* Sars; *Tegastes longimanus* (Claus).

Provisionally assigned species:

- Ameiridae, Ameirinae: *Ameira* cf. *scotti* var. *brevicornis* Monard; *Proameira* cf. *hiddensoensis* (Schäfer); *Proameira* cf. *simplex* (Norman & T. Scott); *Sicameira* cf. *intermedia* Marinov.
- Canthocamptidae: *Mesochra* cf. *inconspicua* (T. Scott); *Mesochra* cf. *timsae* Gurney.
- Laophontidae, Laophontinae: *Laophonte* cf. *baltica* Klie.
- Miraciidae, Diosaccinae: *Amphiascoides* cf. *subdebilis* (Willey); *Amphiascus* cf. *aegyptius* Gurney; *Paramphiascopsis* cf. *longirostris* (Claus); *Robertgurneya* cf. *simulans* (Norman & T. Scott); *Robertsonia* cf. *knoxii* (Thompson & A. Scott).
- Tisbidae, Tisbinae: *Tisbe* cf. *longicornis* (T. & A. Scott); *Tisbe* cf. *minor* (T. & A. Scott); *Tisbe* cf. *tenera* (Sars).

Species assigned to genus (not a few of which are certainly undescribed – all Ectinosomatidae and *Microarthridion* sp. A (Tachidiidae) verified as such):

- Ameiridae, Ameirinae: *Ameira* spp. A-H; *Ameiropsyllus* sp. A; *Filexia* sp. A; *Leptomesochra* sp. A; *Proameira* spp. A, B, D & E; *Pseudameira* sp. A; *Psyllocamptus* sp. A.
- Canthocamptidae: *Mesochra* sp. A.
- Darcythompsoniidae: *Leptocaris* sp. A.
- Ectinosomatidae: *Ectinosoma* sp. A; *Halectinosoma* sp. A; *Halophytophilus* spp. A-D; *Hastigerella* sp. B & (?) *Hastigerella* sp. C; *Pseudobradya* sp. A; *Sigmatidium* spp. A-C.
- Harpacticidae: *Perissocope* sp. A (the rare unnamed species figured by Dr R. Hamond in Huys *et al.*, 1996).
- Laophontidae, Laophontinae: *Coullia* sp. A; *Paralaophonte* sp. A.
- Miraciidae, Diosaccinae: *Amphiascus* spp. A & B; *Bulbamphiascus* sp. B; *Haloschizopera* spp. A-D; *Pararobertsonia* sp. A; *Robertgurneya* sp. A.
- Miraciidae, Stenheleinae: *Delavalia* sp. A; (?) *Stenhelia* sp. A.
- Rhizotrichidae: *Rhizothrix* spp. A & B.
- Tachidiidae: *Microarthridion* sp. A.
- Tegastidae: *Tegastes* spp. A-C.
- Thalestridae, Dactylopusiinae: *Diarthrodes* sp. A; *Paradactylopodia* spp. A & B.

- Thalestridae, Pseudotachidiinae: *Dactylopodella* sp. A (close to *D. ornata* (Norman & T. Scott, 1905).
- Tisbidae, Idyanthinae: *Zosime* sp. A.
- Tisbidae, Tisbinae: *Tisbe gracilis*-group sp. A; *Tisbe* spp. A-D.

Species assigned to family/sub-family level only (does not imply new genera, although this is possible (e.g. laophontid sp. L and the provisionally assigned paramesochrid sp. with unusual morphology), but rather the need for further examination – undescribed species certainly present):

- Ameiridae, Ameirinae: spp. A & B.
- Laophontidae, Laophontinae: spp. A, B & E-Q.
- Leptastacidae: spp. A & B.
- Miraciidae, Diosaccinae: spp. A-E.
- Paramesochridae: *c.* five species (one provisional).

A collection biased towards unidentified species has been retained. Specimens are available.

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APPENDIX

SPECIES ASSEMBLAGES

Examples associated with **algae** (BS9, 12, 31, 58, 74, 90, 101), **hydroids** (BS15, 34, 35, 55, 67), **turfs** (hydroid/bryozoan (BS24), silt-smothered algal/bryozoan (BS27, 97), silty bryozoan (BS98)), **gravel** (BS71, 79, 100) and **fine sand** (BS45, 48, 64, 68). **Minimum sieve mesh** used for retention of copepods during extraction procedures was 90 µm (see Materials and Methods).

ALGAE

BS9. *Phyllophora crispa* (the lower parts heavily encrusted with *Electra pilosa* and supporting densely packed *Mytilus edulis* (5-15 mm long)), 6.1-7.4 m BCD, Looe Gate, 2.7.1994 (65.0 g excluding *Mytilus*).

40 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Ectinosoma</i> sp. A	241	47	288	21.92
<i>Mesochra pygmaea</i>	192	43	235	17.88
<i>Amphiascus parvus</i>	79	(90)	169	12.86
<i>Dactylopodella flava</i>	99	61	157	11.95
<i>Dactylopusia vulgaris vulgaris</i>	62	15	77	5.86
<i>Ectinosoma melaniceps</i>	54	9	63	4.79
<i>Paralaophonte brevirostris</i>	22	23	45	3.42
<i>Laophonte elongata elongata</i>	21	13	34	2.59
<i>Paramphiascella fulvofasciata</i>	15	17	32	2.44
<i>Halophytophilus</i> sp. D	19	7	26	1.98
<i>Ameira parvula parvula</i>	15	5	20	1.52
<i>Amphiascus</i> cf. <i>aegyptius</i>	9	9	18	1.37
<i>Ambunguipes rufocincta</i>	13	4	17	1.29
<i>Zaus spinatus spinatus</i>	7	10	17	1.29
<i>Amphiascus tenuiremis</i>	5	8	13	0.99
<i>Tisbe pentataenia</i>	9	3	12	0.91
<i>Ameira</i> sp. D	4	6	10	0.76
<i>Laophontopsis borealis</i>	8	1	9	0.68
<i>Amphiascus propinquus</i>	4	4	8	0.61
<i>Thalestris rufoviolascens</i>	8	0	8	0.61
<i>Alteutha interrupta</i>	3	4	7	0.53
<i>Ameira scotti</i>	5	2	7	0.53
<i>Thalestris longimana</i>	4	3	7	0.53
<i>Laophonte serrata</i>	3	3	6	0.46
<i>Longipedia minor</i>	4	0	4	0.30
<i>Parategastes sphaericus</i>	1	3	4	0.30
<i>Ameiropsis mixta</i>	2	1	3	0.23
<i>Euricletodes similis</i>	1	1	2	0.15
<i>Normanella minuta</i>	0	2	2	0.15
<i>Normanella tenuifurca</i>	2	0	2	0.15
<i>Tegastes longimanus</i>	2	0	2	0.15
<i>Tisbe furcata furcata</i>	1	1	2	0.15
<i>Coullia</i> sp. A	0	1	1	0.08
<i>Diarthrodes pygmaeus</i>	1	0	1	0.08
<i>Diarthrodes</i> sp. A	1	0	1	0.08
<i>Halectinosoma brunneum</i>	1	0	1	0.08
<i>Laophonte inornata</i>	0	1	1	0.08
<i>Parathalestris harpacticoides</i>	1	0	1	0.08
<i>Psyllocamptus propinquus</i>	1	0	1	0.08
<i>Tisbe</i> sp. A	1	0	1	0.08
			1,314	100

BS12. Silty mixed algae (including *Calliblepharis ciliata* and *Plocamium cartilagineum*), 3.2-4.0 m BCD, S of Jenny Ground (S of Portslade), 2.7.1994 (38.5 g).

43 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Ectinosoma</i> sp. A	248	18	266	32.60
<i>Zaus spinatus spinatus</i>	53	35	88	10.78
<i>Tisbe pentataenia</i>	68	5	73	8.95
<i>Mesochra pygmaea</i>	38	25	63	7.72
<i>Amphiascus</i> cf. <i>aegyptius</i>	23	29	52	6.37
<i>Dactylopodella flava</i>	27	12	39	4.78
<i>Amphiascus parvus</i>	16	14	30	3.68
<i>Parathalestris harpacticoides</i>	12	15	27	3.31
<i>Ectinosoma melaniceps</i>	21	2	23	2.82
<i>Ambungiipes rufocincta</i>	10	10	20	2.45
<i>Diarthrodes</i> sp. A	9	8	17	2.08
<i>Laophonte cornuta</i>	11	2	13	1.59
<i>Ameiropsis mixta</i>	7	2	9	1.10
<i>Diarthrodes pygmaeus</i>	2	7	9	1.10
<i>Laophontopsis borealis</i>	6	3	9	1.10
<i>Normanella minuta</i>	4	5	9	1.10
<i>Paralaophonte brevis</i>	6	3	9	1.10
<i>Tisbe furcata furcata</i>	9	0	9	1.10
<i>Harpacticus obscurus</i>	5	1	6	0.74
<i>Normanella tenuifurca</i>	1	4	5	0.61
<i>Amphiascoides</i> cf. <i>subdebilis</i>	4	0	4	0.49
<i>Paramphiascella fulvofasciata</i>	4	0	4	0.49
<i>Ameira parvula parvula</i>	1	2	3	0.37
<i>Laophonte elongata elongata</i>	1	2	3	0.37
<i>Ameira</i> sp. D	1	1	2	0.25
<i>Halectinosoma cooperatum</i>	2	0	2	0.25
<i>Laophonte inornata</i>	1	1	2	0.25
<i>Laophonte serrata</i>	2	0	2	0.25
<i>Longipedia minor</i>	2	0	2	0.25
<i>Paradactylopodia brevicornis</i>	2	0	2	0.25
<i>Psyllocamptus</i> sp. A	1	1	2	0.25
<i>Cletodes tenuipes</i>	0	1	1	0.12
<i>Coullia</i> sp. A	1	0	1	0.12
<i>Laophonte elongata triarticulata</i>	1	0	1	0.12
<i>Longipedia helgolandica</i>	0	1	1	0.12
<i>Orthopsyllus linearis linearis</i>	1	0	1	0.12
<i>Paralaophonte congenera congenera</i>	1	0	1	0.12
<i>Parategastes sphaericus</i>	1	0	1	0.12
<i>Phyllothalestris mysis</i>	1	0	1	0.12
<i>Psyllocamptus propinquus</i>	1	0	1	0.12
<i>Robertsonia</i> cf. <i>knoxii</i>	1	0	1	0.12
<i>Thalestris longimana</i>	0	1	1	0.12
<i>Tisbe</i> cf. <i>tenera</i>	0	1	1	0.12
			816	100

BS31. Silty algae (mainly *Calliblepharis ciliata* with epiphytic *Ceramium* sp.), 5.8 m BCD, 3 km SW of Shoreham, 4.9.1994 (66.0 g).

57 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Harpacticus obscurus</i>	628	214	842	19.90
<i>Ectinosoma</i> sp. A	734	98	832	19.66
<i>Tisbe</i> cf. <i>tenera</i>	324	335	659	15.57
<i>Amphiascus</i> cf. <i>aegyptius</i>	298	(250)	548	12.95
<i>Paralaophonte brevirostris</i>	307	141	448	10.59
<i>Diarthrodes pygmaeus</i>	123	107	230	5.43
<i>Dactylopusia tisboides</i>	43	40	83	1.96
<i>Ectinosoma melaniceps</i>	53	10	63	1.49
<i>Ameira parvula parvula</i>	39	18	57	1.35
<i>Laophonte cornuta</i>	22	30	52	1.23
<i>Ambunguipes rufocincta</i>	20	26	46	1.09
<i>Diarthrodes</i> sp. A	26	20	46	1.09
<i>Laophonte inornata</i>	22	13	35	0.83
<i>Paramphiascella fulvofasciata</i>	11	16	27	0.64
<i>Mesochra pygmaea</i>	25	1	26	0.61
<i>Amphiascus parvus</i>	16	8	24	0.57
<i>Halophytophilus</i> sp. D	22	1	23	0.54
<i>Thalestris rufoviolascens</i>	13	7	20	0.47
<i>Dactylopodella flava</i>	9	7	16	0.38
<i>Laophontopsis borealis</i>	13	3	16	0.38
<i>Proameira</i> sp. D	11	5	16	0.38
<i>Ameiropsis mixta</i>	8	5	13	0.31
<i>Amphiascus propinquus</i>	6	4	10	0.24
<i>Tisbe pentataenia</i>	7	3	10	0.24
<i>Longipedia minor</i>	8	1	9	0.21
<i>Pseudobradia minor</i>	9	0	9	0.21
<i>Psyllocamptus propinquus</i>	5	3	8	0.19
<i>Psyllocamptus</i> sp. A	2	4	6	0.14
<i>Cletodes tenuipes</i>	4	1	5	0.12
<i>Paradactylopodia brevicornis</i>	2	2	4	0.09
<i>Parategastes sphaericus</i>	1	3	4	0.09
<i>Diarthrodes ponticus ponticus</i>	3	0	3	0.07
<i>Halectinosoma brunneum</i>	2	1	3	0.07
<i>Laophonte parvula</i>	3	0	3	0.07
<i>Normanella tenuifurca</i>	3	0	3	0.07
<i>Phyllothalestris mysis</i>	1	2	3	0.07
<i>Ameira</i> sp. F	2	0	2	0.05
<i>Amphiascopsis thalestroides</i>	2	0	2	0.05
<i>Dactylopusia vulgaris vulgaris</i>	2	0	2	0.05
<i>Diosaccus tenuicornis</i>	0	2	2	0.05
<i>Longipedia helgolandica</i>	1	1	2	0.05
<i>Paradactylopodia</i> sp. A	2	0	2	0.05
<i>Parathalestris harpacticoides</i>	1	1	2	0.05
<i>Peltidium purpureum</i>	2	0	2	0.05
<i>Robertsonia</i> cf. <i>knoxii</i>	0	2	2	0.05
<i>Alteutha interrupta</i>	0	1	1	0.02
<i>Ameira</i> sp. D	1	0	1	0.02
<i>Amphiascus</i> sp. A	1	0	1	0.02
<i>Enhydrosoma propinquum</i>	0	1	1	0.02
<i>Eurycletodes similis</i>	1	0	1	0.02
<i>Halectinosoma cooperatum</i>	1	0	1	0.02
<i>Nannomesochra arupinensis</i>	1	0	1	0.02
<i>Orthopsyllus linearis linearis</i>	0	1	1	0.02
<i>Proameira</i> cf. <i>hiddensoensis</i>	1	0	1	0.02
<i>Proameira</i> sp. B	0	1	1	0.02
<i>Tisbe furcata furcata</i>	0	1	1	0.02
<i>Tisbe holothuriae</i>	1	0	1	0.02
			4,232	100

BS58. Algae (mainly *Plocamium cartilagineum*), 0.9 m BCD, Seaford Head Gullies, 25.6.1995 (81.1 g).

56 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Zaus spinatus spinatus</i>	544	648	1,192	45.29
<i>Ectinosoma</i> sp. A	460	43	503	19.11
<i>Tisbe pentataenia</i>	183	12	195	7.41
<i>Paralaophonte brevirostris</i>	115	40	155	5.89
<i>Amphiascus</i> cf. <i>aegyptius</i>	39	49	88	3.34
<i>Ambungiipes rufocincta</i>	37	33	70	2.66
<i>Ectinosoma melaniceps</i>	31	18	49	1.86
<i>Ameira parvula parvula</i>	22	26	48	1.82
<i>Dactylopusia vulgaris dissimilis</i>	22	18	40	1.52
<i>Tisbe furcata furcata</i>	17	12	29	1.10
<i>Mesochra pygmaea</i>	21	4	25	0.95
<i>Parategastes sphaericus</i>	13	8	21	0.80
<i>Sacodiscus fasciatus</i>	6	15	21	0.80
<i>Laophonte elongata elongata</i>	11	6	17	0.65
<i>Halophytophilus</i> sp. D	12	1	13	0.49
<i>Thalestris longimana</i>	4	9	13	0.49
<i>Diarthrodes</i> sp. A	10	2	12	0.46
<i>Parathalestris harpacticoides</i>	8	4	12	0.46
<i>Ameira</i> sp. A	11	0	11	0.42
<i>Halectinosoma cooperatum</i>	6	5	11	0.42
<i>Laophonte brevifurca</i>	5	5	10	0.38
<i>Longipedia minor</i>	7	2	9	0.34
<i>Diarthrodes pygmaeus</i>	3	4	7	0.27
<i>Amphiascus hirtus</i>	3	3	6	0.23
<i>Eurycletodes similis</i>	6	0	6	0.23
<i>Ameira scotti</i>	1	4	5	0.19
<i>Amphiascus propinquus</i>	3	2	5	0.19
<i>Dactylopusia vulgaris vulgaris</i>	4	1	5	0.19
<i>Alteutha interrupta</i>	0	4	4	0.15
<i>Dactylopodella flava</i>	3	1	4	0.15
<i>Amphiascus tenuiremis</i>	3	0	3	0.11
<i>Dactylopusia tisboides</i>	3	0	3	0.11
<i>Haloschizopera</i> sp. A	2	1	3	0.11
<i>Laophonte thoracica</i>	3	0	3	0.11
<i>Normanella tenuifurca</i>	1	2	3	0.11
<i>Alteutha depressa</i>	1	1	2	0.08
<i>Diarthrodes ponticus ponticus</i>	1	1	2	0.08
<i>Laophontodes typicus</i>	2	0	2	0.08
<i>Longipedia helgolandica</i>	1	1	2	0.08
<i>Normanella minuta</i>	1	1	2	0.08
<i>Orthopsyllus linearis linearis</i>	0	2	2	0.08
<i>Paramphiascella fulvofasciata</i>	1	1	2	0.08
<i>Pseudobradya minor</i>	2	0	2	0.08
<i>Psyllocamptus</i> sp. A	1	1	2	0.08
<i>Tegastes clausi</i>	1	1	2	0.08
<i>Alteutha oblonga</i>	0	1	1	0.04
<i>Amphiascus parvus</i>	0	1	1	0.04
<i>Ectinosoma normani</i>	1	0	1	0.04
<i>Laophonte cornuta</i>	1	0	1	0.04
<i>Laophonte serrata</i>	0	1	1	0.04
<i>Marbefia carthyi</i>	0	1	1	0.04
<i>Paradactylopodia brevicornis</i>	1	0	1	0.04
<i>Pseudameira</i> sp. A	0	1	1	0.04
<i>Robertsonia</i> cf. <i>knoxii</i>	1	0	1	0.04
<i>Tegastes flavidus</i>	1	0	1	0.04
<i>Thalestris rufoviolascens</i>	0	1	1	0.04
			2,632	100

BS74. *Calliblepharis ciliata* (supporting sparse epiphytic *Ceramium* sp.), 4.1-4.7 m BCD, near Jenny Ground (S of Portslade), 17.9.1995 (97.2 g).

37 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Paralaophonte brevisrostris</i>	433	77	510	26.88
<i>Ectinosoma</i> sp. A	357	31	388	20.45
<i>Ectinosoma melaniceps</i>	221	41	262	13.81
<i>Amphiascus</i> cf. <i>aegyptius</i>	127	133	260	13.71
<i>Harpacticus obscurus</i>	80	3	83	4.38
<i>Tisbe pentataenia</i>	55	10	65	3.43
<i>Dactylopusia tisbooides</i>	23	23	46	2.42
<i>Paramphiascella fulvofasciata</i>	29	13	42	2.21
<i>Tisbe</i> cf. <i>tenera</i>	23	15	38	2.00
<i>Ambunguipes rufocincta</i>	18	19	37	1.95
<i>Dactylopodella flava</i>	20	15	35	1.85
<i>Diarthrodes pygmaeus</i>	9	23	32	1.69
<i>Ameira parvula parvula</i>	11	13	24	1.27
<i>Diarthrodes</i> sp. A	16	7	23	1.21
<i>Amphiascus parvus</i>	5	3	8	0.42
<i>Parathalestris harpacticoides</i>	5	1	6	0.32
<i>Laophonte cornuta</i>	4	1	5	0.26
<i>Laophonte inornata</i>	4	0	4	0.21
<i>Paralaophonte congenera</i>	4	0	4	0.21
<i>Alteutha depressa</i>	0	3	3	0.16
<i>Laophontopsis borealis</i>	3	0	3	0.16
<i>Ameira</i> sp. D	2	0	2	0.11
<i>Halophytophilus</i> sp. D	2	0	2	0.11
<i>Normanella tenuifurca</i>	0	2	2	0.11
<i>Amphiascoides</i> cf. <i>subdebilis</i>	1	0	1	0.05
<i>Amphiascus hirtus</i>	1	0	1	0.05
<i>Amphiascus propinquus</i>	0	1	1	0.05
<i>Amphiascus tenuiremis</i>	1	0	1	0.05
<i>Cletodes tenuipes</i>	1	0	1	0.05
<i>Diarthrodes ponticus ponticus</i>	1	0	1	0.05
<i>Diosaccus tenuicornis</i>	1	0	1	0.05
<i>Laophonte parvula</i>	1	0	1	0.05
<i>Mesochra pygmaea</i>	1	0	1	0.05
<i>Paradactylopodia</i> sp. A	0	1	1	0.05
<i>Psyllocamptus</i> sp. A	1	0	1	0.05
<i>Robertsonia</i> cf. <i>knoxii</i>	1	0	1	0.05
<i>Tegastes clausi</i>	0	1	1	0.05
			1,897	100

BS90. Mixed algae (predominantly the brown alga *Desmarestia aculeata* (some of which attached to stones) and including a variety of smaller algae, mainly filamentous rhodophytes (e.g. *Ceramium* sp., *Polysiphonia* spp.)), 1.0 m BCD, 1 km SSE of Selsey Bill, 13.7.1997 (68.3 g).

47 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Paralaophonte brevirostris</i>	693	99	792	39.19
<i>Amphiascus</i> cf. <i>aegyptius</i>	151	100	251	12.42
<i>Scutellidium longicauda longicauda</i>	79	84	163	8.07
<i>Dactylopusia tisboides</i>	91	71	162	8.02
<i>Harpacticus obscurus</i>	83	36	119	5.89
<i>Tisbe</i> cf. <i>tenera</i>	83	31	114	5.64
<i>Ectinosoma</i> sp. A	51	4	55	2.72
<i>Ameira parvula parvula</i>	32	16	48	2.38
<i>Ectinosoma melaniceps</i>	34	12	46	2.28
<i>Diosaccus tenuicornis</i>	33	7	40	1.98
<i>Ambungiipes rufocincta</i>	13	24	37	1.83
<i>Harpacticus chelifera</i>	20	6	26	1.29
<i>Laophonte cornuta</i>	8	9	17	0.84
<i>Parathalestris harpacticoides</i>	10	6	16	0.79
<i>Heterolaophonte denticulata</i>	11	3	14	0.69
<i>Zaus spinatus spinatus</i>	3	11	14	0.69
<i>Laophontopsis borealis</i>	7	2	9	0.45
<i>Paralaophonte congenera congenera</i>	3	6	9	0.45
<i>Paradactylopodia brevicornis</i>	5	3	8	0.40
<i>Parathalestris clausi</i>	5	3	8	0.40
<i>Pseudobradia minor</i>	7	0	7	0.35
<i>Longipedia helgolandica</i>	6	0	6	0.30
<i>Longipedia minor</i>	3	3	6	0.30
<i>Tisbe</i> cf. <i>longicornis</i>	3	2	5	0.25
<i>Diarthrodes ponticus ponticus</i>	1	3	4	0.20
<i>Diarthrodes pygmaeus</i>	2	2	4	0.20
<i>Paramphiascella fulvofasciata</i>	3	1	4	0.20
<i>Phyllothalestris mysis</i>	3	1	4	0.20
<i>Proameira</i> sp. D	4	0	4	0.20
<i>Sacodiscus littoralis</i>	2	2	4	0.20
<i>Diarthrodes nobilis</i>	3	0	3	0.15
<i>Ectinosoma normani</i>	3	0	3	0.15
<i>Mesochra pygmaea</i>	3	0	3	0.15
<i>Paradactylopodia</i> sp. B	1	1	2	0.10
<i>Tisbe furcata furcata</i>	0	2	2	0.10
<i>Alteutha oblonga</i>	1	0	1	0.05
<i>Ameira</i> sp. H	0	1	1	0.05
<i>Ameiropsis mixta</i>	1	0	1	0.05
<i>Amonardia normani</i>	0	1	1	0.05
<i>Cletodes tenuipes</i>	1	0	1	0.05
<i>Dactylopusia vulgaris dissimilis</i>	1	0	1	0.05
<i>Halectinosoma cooperatum</i>	1	0	1	0.05
<i>Halophytophilus</i> sp. D	1	0	1	0.05
<i>Laophonte elongata elongata</i>	1	0	1	0.05
<i>Normanella tenuifurca</i>	1	0	1	0.05
<i>Proameira</i> cf. <i>hiddensoensis</i>	1	0	1	0.05
<i>Thalestris longimana</i>	0	1	1	0.05
			2,021	100

BS101. Mixed algae (including *Calliblepharis ciliata*, *Plocamium cartilagineum*, *Spyridia filamentosa*, *Dictyota dichotoma*), 4.0 m BCD, 5 km S of Selsey Bill, 7.9.1997 (63.3 g).

33 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Ectinosoma</i> sp. A	289	27	316	26.64
<i>Scutellidium longicauda longicauda</i>	73	108	181	15.26
<i>Zaus spinatus spinatus</i>	101	60	161	13.58
<i>Amphiascus</i> cf. <i>aegyptius</i>	58	75	133	11.21
<i>Parathalestris harpacticoides</i>	40	80	120	10.12
<i>Coullia</i> sp. A	55	24	79	6.66
<i>Harpacticus chelifera</i>	27	3	30	2.53
<i>Paralaophonte brevisrostris</i>	16	12	28	2.36
<i>Tisbe</i> cf. <i>tenera</i>	11	13	24	2.02
<i>Ectinosoma melaniceps</i>	16	5	21	1.77
<i>Dactylopusia tisboides</i>	8	8	16	1.35
<i>Diarthrodes pygmaeus</i>	6	6	12	1.01
<i>Paramphiascella fulvofasciata</i>	6	3	9	0.76
<i>Tegastes clausi</i>	8	0	8	0.67
<i>Heterolaophonte denticulata</i>	5	2	7	0.59
<i>Ameira parvula parvula</i>	3	3	6	0.51
<i>Sigmatidium</i> sp. A	4	1	5	0.42
<i>Dactylopusioides macrolabris</i>	3	1	4	0.34
<i>Parategastes sphaericus</i>	2	2	4	0.34
<i>Sacodiscus littoralis</i>	0	4	4	0.34
<i>Alteutha depressa</i>	1	1	2	0.17
<i>Laophonte cornuta</i>	2	0	2	0.17
<i>Longipedia minor</i>	1	1	2	0.17
<i>Mesochra pygmaea</i>	2	0	2	0.17
<i>Phyllothalestris mysis</i>	0	2	2	0.17
<i>Ambunguipes rufocincta</i>	1	0	1	0.08
<i>Ameira</i> sp. D	1	0	1	0.08
<i>Ectinosoma normani</i>	1	0	1	0.08
<i>Harpacticus obscurus</i>	1	0	1	0.08
<i>Laophonte elongata elongata</i>	1	0	1	0.08
<i>Psyllocamptus propinquus</i>	1	0	1	0.08
<i>Tegastes nanus</i>	1	0	1	0.08
<i>Tisbe pentataenia</i>	1	0	1	0.08
			1,186	100

HYDROIDS

BS15. *Nemertesia antennina* (silt-laden basally), 9.9-11.6 m BCD, Marina Reef (Brighton), also known as Measor's Rocks, 3.7.1994 (23.8 g).

31 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Dactylopusia vulgaris vulgaris</i>	74	28	102	34.69
<i>Ectinosoma</i> sp. A	49	13	62	21.09
<i>Laophonte elongata elongata</i>	8	7	15	5.10
<i>Dactylopodella flava</i>	9	3	12	4.08
<i>Ectinosoma melaniceps</i>	10	2	12	4.08
<i>Laophontopsis borealis</i>	12	0	12	4.08
<i>Ameiropsis mixta</i>	5	3	8	2.72
<i>Halophytophilus</i> sp. D	5	3	8	2.72
<i>Ambunguipes rufocincta</i>	3	4	7	2.38
<i>Ameira</i> sp. D	6	1	7	2.38
<i>Longipedia minor</i>	5	2	7	2.38
<i>Mesochra pygmaea</i>	6	0	6	2.04
<i>Alteutha interrupta</i>	1	4	5	1.70
<i>Longipedia helgolandica</i>	4	0	4	1.36
<i>Paramphiascella fulvofasciata</i>	2	2	4	1.36
<i>Paralaophonte brevirostris</i>	1	2	3	1.02
<i>Ameira parvula parvula</i>	1	1	2	0.68
<i>Ameiropsyllus monardi</i>	1	1	2	0.68
<i>Laophonte serrata</i>	2	0	2	0.68
<i>Normanella tenuifurca</i>	2	0	2	0.68
<i>Psyllocamptus propinquus</i>	1	1	2	0.68
<i>Amphiascus</i> cf. <i>aegyptius</i>	1	0	1	0.34
<i>Amphiascus parvus</i>	1	0	1	0.34
<i>Amphiascus propinquus</i>	1	0	1	0.34
<i>Halectinosoma brunneum</i>	1	0	1	0.34
<i>Laophonte thoracica</i>	0	1	1	0.34
<i>Orthopsyllus linearis linearis</i>	1	0	1	0.34
<i>Paradactylopodia</i> sp. A	1	0	1	0.34
<i>Parategastes sphaericus</i>	1	0	1	0.34
<i>Proameira</i> sp. D	1	0	1	0.34
<i>Psyllocamptus</i> sp. A	1	0	1	0.34
			294	100

BS34. *Obelia longissima*, 8.5 m BCD, 4 km S of Shoreham, 1.10.1994 (11.9 g).

19 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Dactylopusia vulgaris vulgaris</i>	227	63	290	64.30
<i>Ectinosoma</i> sp. A	68	10	78	17.29
<i>Ameira parvula parvula</i>	13	10	23	5.10
<i>Paralaophonte brevirostris</i>	16	5	21	4.66
<i>Ambungiipes rufocincta</i>	3	6	9	2.00
<i>Asellopsis intermedia</i>	5	1	6	1.33
<i>Amphiascus</i> cf. <i>aegyptius</i>	1	2	3	0.67
<i>Ectinosoma melaniceps</i>	3	0	3	0.67
<i>Euterpina acutifrons</i>	1	2	3	0.67
<i>Alteutha interrupta</i>	1	1	2	0.44
<i>Amphiascus propinquus</i>	1	1	2	0.44
<i>Halophytophilus</i> sp. D	1	1	2	0.44
<i>Psyllocamptus</i> sp. A	2	0	2	0.44
<i>Tegastes nanus</i>	2	0	2	0.44
<i>Harpacticus obscurus</i>	1	0	1	0.22
<i>Laophonte elongata elongata</i>	1	0	1	0.22
<i>Laophonte serrata</i>	1	0	1	0.22
<i>Parategastes sphaericus</i>	1	0	1	0.22
<i>Rhizothrix minuta</i>	1	0	1	0.22
			451	100

BS35. Mixed hydroids (including *Hydrallmania falcata* and *Sertularia* sp.), 12.7 m BCD, 7 km S of Shoreham, 1.10.1994 (14.9 g).

23 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Dactylopusia vulgaris vulgaris</i>	166	42	208	51.87
<i>Ectinosoma</i> sp. A	98	17	115	28.68
<i>Paralaophonte brevirostris</i>	17	7	24	5.99
<i>Ameira parvula parvula</i>	9	1	10	2.49
<i>Amphiascus</i> cf. <i>aegyptius</i>	5	1	6	1.50
<i>Ectinosoma melaniceps</i>	5	0	5	1.25
<i>Longipedia minor</i>	5	0	5	1.25
<i>Longipedia helgolandica</i>	3	1	4	1.00
<i>Amphiascus parvus</i>	0	3	3	0.75
<i>Amphiascus propinquus</i>	3	0	3	0.75
<i>Paradactylopodia brevicornis</i>	1	2	3	0.75
<i>Ambungiipes rufocincta</i>	1	1	2	0.50
<i>Harpacticus obscurus</i>	2	0	2	0.50
<i>Laophontopsis borealis</i>	2	0	2	0.50
<i>Ameira scotti</i>	1	0	1	0.25
<i>Asellopsis intermedia</i>	1	0	1	0.25
<i>Euterpina acutifrons</i>	0	1	1	0.25
<i>Halectinosoma canaliculatum</i>	1	0	1	0.25
<i>Laophonte serrata</i>	1	0	1	0.25
<i>Mesochra pygmaea</i>	1	0	1	0.25
<i>Normanella tenuifurca</i>	0	1	1	0.25
<i>Parategastes sphaericus</i>	0	1	1	0.25
<i>Tegastes nanus</i>	1	0	1	0.25
			401	100

BS55. Silty hydroids (mainly *Nemertesia antennina*), 6.5 m BCD, SW of Birling Gap (between the Seven Sisters and Beachy Head), 24.6.1995 (25.2 g).

45 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Ectinosoma</i> sp. A	84	13	97	29.39
<i>Dactylopusia vulgaris vulgaris</i>	35	40	75	22.73
<i>Paralaophonte brevirostris</i>	18	16	34	10.30
<i>Paradactylopodia</i> sp. A	18	3	21	6.36
<i>Tisbe pentataenia</i>	13	3	16	4.85
<i>Halophytophilus</i> sp. D	9	1	10	3.03
<i>Tisbe furcata furcata</i>	7	1	8	2.42
<i>Ameira parvula parvula</i>	4	2	6	1.82
<i>Dactylopodella flava</i>	5	0	5	1.52
<i>Amphiascus</i> cf. <i>aegyptius</i>	4	0	4	1.21
<i>Amphiascus propinquus</i>	3	1	4	1.21
<i>Halectinosoma cooperatum</i>	4	0	4	1.21
<i>Laophonte elongata elongata</i>	2	2	4	1.21
<i>Alteutha interrupta</i>	0	3	3	0.91
<i>Eurycletodes similis</i>	1	2	3	0.91
<i>Amphiascus parvus</i>	2	0	2	0.61
<i>Enhydrosoma propinquum</i>	1	1	2	0.61
<i>Longipedia helgolandica</i>	2	0	2	0.61
<i>Marbefia carthyi</i>	1	1	2	0.61
<i>Pseudobradya minor</i>	1	1	2	0.61
<i>Zaus spinatus spinatus</i>	2	0	2	0.61
<i>Ambungiipes rufocincta</i>	0	1	1	0.30
<i>Ameira</i> sp. D	1	0	1	0.30
<i>Ameiropsis mixta</i>	1	0	1	0.30
<i>Ameiropsyllus monardi</i>	1	0	1	0.30
<i>Amphiascus hirtus</i>	1	0	1	0.30
<i>Amphiascus tenuiremis</i>	0	1	1	0.30
<i>Cletodes tenuipes</i>	0	1	1	0.30
<i>Diarthrodes pygmaeus</i>	1	0	1	0.30
<i>Ectinosoma normani</i>	1	0	1	0.30
<i>Euterpina acutifrons</i>	1	0	1	0.30
<i>Harpacticus obscurus</i>	1	0	1	0.30
<i>Laophonte serrata</i>	1	0	1	0.30
<i>Laophontopsis borealis</i>	1	0	1	0.30
<i>Mesochra</i> cf. <i>inconspicua</i>	0	1	1	0.30
<i>Mesochra pygmaea</i>	1	0	1	0.30
<i>Normanella minuta</i>	1	0	0	0.30
<i>Normanella tenuifurca</i>	0	0	1	0.30
<i>Orthopsyllus linearis linearis</i>	1	0	1	0.30
<i>Parategastes sphaericus</i>	0	1	1	0.30
<i>Proameira</i> sp. D	1	0	1	0.30
<i>Pseudameira</i> sp. A	0	1	1	0.30
<i>Psyllocamptus</i> sp. A	1	0	1	0.30
<i>Sigmatidium</i> sp. C	0	1	1	0.30
<i>Thalestris longimana</i>	0	1	1	0.30
			330	100

BS67. Silt-laden hydroids (including *Hydrallmania falcata*, *Rhizocaulus verticillatus*, *Obelia longissima*), 19.3 m BCD, 4 km S of Seaford, 23.7.1995 (38.1 g).

31 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Dactylopusia vulgaris vulgaris</i>	253	211	464	34.40
<i>Ectinosoma</i> sp. A	304	62	366	27.13
<i>Ambunguipes rufocincta</i>	73	113	186	13.79
<i>Ameira parvula parvula</i>	38	30	68	5.04
<i>Paralaophonte brevisrostris</i>	36	21	57	4.23
<i>Amphiascus propinquus</i>	26	27	53	3.93
<i>Parategastes sphaericus</i>	9	20	29	2.15
<i>Ectinosoma melaniceps</i>	24	0	24	1.78
<i>Longipedia helgolandica</i>	7	12	19	1.41
<i>Mesochra pygmaea</i>	16	1	17	1.26
<i>Ectinosoma normani</i>	8	3	11	0.82
<i>Longipedia minor</i>	5	5	10	0.74
<i>Halophytophilus</i> sp. D	6	2	8	0.59
<i>Paradactylopodia</i> sp. A	6	2	8	0.59
<i>Pseudobradia minor</i>	5	1	6	0.44
<i>Enhydrosoma propinquum</i>	0	3	3	0.22
<i>Ameiropsis mixta</i>	2	0	2	0.15
<i>Dactylopodella flava</i>	2	0	2	0.15
<i>Laophonte serrata</i>	1	1	2	0.15
<i>Mesochra</i> cf. <i>timsae</i>	2	0	2	0.15
<i>Paramphiascella fulvofasciata</i>	2	0	2	0.15
<i>Alteutha interrupta</i>	0	1	1	0.07
<i>Alteutha oblonga</i>	0	1	1	0.07
<i>Ameira</i> sp. D	1	0	1	0.07
<i>Cletodes tenuipes</i>	0	1	1	0.07
<i>Halectinosoma brunneum</i>	0	1	1	0.07
<i>Halectinosoma cooperatum</i>	1	0	1	0.07
<i>Halectinosoma herdmani</i>	0	1	1	0.07
<i>Normanella tenuifurca</i>	1	0	1	0.07
<i>Rhynchothalestris helgolandica</i>	1	0	1	0.07
<i>Tegastes flavidus</i>	1	0	1	0.07
			1,349	100

TURFS

BS24. *Tubularia indivisa* (dominant)/bryozoan turf, 22.2 m BCD, vertical side of the hull of 'H.M.S. Northcoates', 13.8.1994 (56.0 g).

46 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Dactylopusia vulgaris vulgaris</i>	616	96	712	48.93
<i>Ectinosoma</i> sp. A	105	19	124	8.52
<i>Mesochra pygmaea</i>	68	0	68	4.67
<i>Paramphiascella fulvofasciata</i>	33	31	64	4.40
<i>Ambunguipes rufocincta</i>	30	17	47	3.23
<i>Ameira</i> sp. D	21	20	41	2.82
<i>Laophonte serrata</i>	32	5	37	2.54
<i>Amphiascus propinquus</i>	21	8	29	1.99
<i>Halophytophilus</i> sp. D	19	9	28	1.92
<i>Amphiascus tenuiremis</i>	14	11	25	1.72
<i>Paralaophonte brevirostris</i>	14	11	25	1.72
<i>Dactylopodella flava</i>	16	7	23	1.58
<i>Ameira parvula parvula</i>	17	5	22	1.51
<i>Laophonte elongata elongata</i>	10	10	20	1.37
<i>Longipedia helgolandica</i>	10	8	18	1.24
<i>Ectinosoma melaniceps</i>	15	1	16	1.10
<i>Laophonte brevifurca</i>	14	2	16	1.10
<i>Parategastes sphaericus</i>	10	4	14	0.96
<i>Normanella tenuifurca</i>	7	6	13	0.89
Laophontid sp. J	7	4	11	0.76
<i>Longipedia minor</i>	9	2	11	0.76
<i>Amphiascus</i> sp. A	5	5	10	0.69
<i>Marbefia carthyi</i>	5	5	10	0.69
<i>Tegastes flavidus</i>	4	5	9	0.62
<i>Tegastes nanus</i>	8	1	9	0.62
<i>Amphiascus parvus</i>	5	1	6	0.41
<i>Pseudobradya minor</i>	5	0	5	0.34
<i>Corbulaseta bulligera</i>	4	0	4	0.27
<i>Eurycletodes similis</i>	3	1	4	0.27
<i>Alteutha interrupta</i>	2	1	3	0.21
<i>Ameira</i> sp. B	3	0	3	0.21
<i>Proameira</i> cf. <i>hiddensoensis</i>	2	1	3	0.21
<i>Psyllocamptus propinquus</i>	2	1	3	0.21
<i>Rhynchothalestris helgolandica</i>	3	0	3	0.21
<i>Ameira scotti</i>	1	1	2	0.14
<i>Bradya scotti</i>	2	0	2	0.14
<i>Halectinosoma cooperatum</i>	0	2	2	0.14
<i>Laophontodes typicus</i>	2	0	2	0.14
<i>Laophontopsis borealis</i>	2	0	2	0.14
<i>Paradactylopodia brevicornis</i>	1	1	2	0.14
<i>Tisbe</i> sp. A	2	0	2	0.14
<i>Ameira</i> sp. F	0	1	1	0.07
<i>Amonardia normani</i>	1	0	1	0.07
<i>Amphiascus</i> cf. <i>aegyptius</i>	1	0	1	0.07
<i>Amphiascus hirtus</i>	1	0	1	0.07
<i>Euterpina acutifrons</i>	1	0	1	0.07
			1,455	100

BS27. Silt-smothered algal/bryozoan turf, 5.0 m BCD, Outer Mulberry, 21.8.1994 (silt + turf 150 ml, turf 5-10 g).

74 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Danielssenia typica</i>	336	1	337	18.02
<i>Pararobertsonia</i> sp. A	94	123	220	11.76
<i>Haloschizopera</i> sp. A	38	122	160	8.56
<i>Delavalia normani</i>	95	63	158	8.45
<i>Bradya scotti</i>	74	6	80	4.28
<i>Pseudobradya minor</i>	72	2	74	3.96
<i>Laophonte brevifurca</i>	34	24	58	3.10
<i>Laophonte parvula</i>	34	22	56	2.99
<i>Ectinosoma</i> sp. A	43	12	55	2.94
<i>Longipedia helgolandica</i>	23	28	51	2.72
<i>Laophonte cornuta</i>	24	19	43	2.30
<i>Longipedia minor</i>	23	15	38	2.03
<i>Normanella tenuifurca</i>	27	10	37	1.98
<i>Pontopolites typicus</i>	35	0	35	1.87
<i>Diarthrodes pygmaeus</i>	17	16	33	1.76
<i>Halectinosoma cooperatum</i>	26	6	32	1.71
<i>Halophytophilus</i> sp. D	24	3	27	1.44
<i>Cletodes tenuipes</i>	15	10	25	1.34
<i>Ameira</i> sp. B	14	10	24	1.28
<i>Ameira parvula parvula</i>	13	7	20	1.07
<i>Ameira</i> sp. D	6	14	20	1.07
<i>Ectinosoma normani</i>	20	0	20	1.07
<i>Amphiascoides</i> cf. <i>subdebilis</i>	9	9	18	0.96
<i>Ectinosoma melaniceps</i>	16	2	18	0.96
<i>Dactylopusia tisboides</i>	10	7	17	0.91
<i>Halectinosoma argyllensis</i>	15	1	16	0.86
<i>Microarthridion reductum</i>	10	4	14	0.75
<i>Proameira</i> sp. D	12	2	14	0.75
<i>Enhydrosoma propinquum</i>	9	4	13	0.70
<i>Amphiascopsis cinctus</i>	8	4	12	0.64
<i>Ambungiipes rufocincta</i>	7	3	10	0.53
<i>Delavalia</i> sp. A	6	4	10	0.53
<i>Amphiascus tenuiremis</i>	5	4	9	0.48
<i>Paradactylopodia brevicornis</i>	6	3	9	0.48
<i>Mesochra pygmaea</i>	7	0	7	0.37
<i>Enhydrosoma longifurcatum</i>	2	4	6	0.32
<i>Eurycletodes similis</i>	6	0	6	0.32
<i>Halectinosoma brunneum</i>	6	0	6	0.32
<i>Proameira</i> sp. A	5	1	6	0.32
<i>Amphiascus propinquus</i>	3	2	5	0.27
<i>Laophonte elongata elongata</i>	3	2	5	0.27
<i>Paralaophonte brevirostris</i>	2	3	5	0.27
<i>Psyllocamptus</i> sp. A	5	0	5	0.27
<i>Thalestris rufoviolascens</i>	5	0	5	0.27
<i>Laophontopsis borealis</i>	3	1	4	0.21
<i>Tisbe pentataenia</i>	1	3	4	0.21
<i>Laophonte serrata</i>	2	1	3	0.16
<i>Zosime</i> sp. A	0	3	3	0.16
<i>Amphiascopsis thalestroides</i>	1	1	2	0.11
<i>Amphiascus</i> cf. <i>aegyptius</i>	0	2	2	0.11
<i>Halectinosoma denticulatum</i>	2	0	2	0.11
<i>Harpacticus obscurus</i>	1	1	2	0.11
<i>Laophonte inornata</i>	1	1	2	0.11
<i>Nannomesochra arupinensis</i>	0	2	2	0.11
<i>Parathalestris harpacticoides</i>	2	0	2	0.11
<i>Paralaophonte congenera congenera</i>	2	0	2	0.11
<i>Proameira</i> sp. B	2	0	2	0.11
<i>Psyllocamptus propinquus</i>	2	0	2	0.11

<i>Stylicletodes longicaudatus</i>	2	0	2	0.11
<i>Alteutha interrupta</i>	0	1	1	0.05
<i>Alteutha oblonga</i>	0	1	1	0.05
<i>Amonardia normani</i>	1	0	1	0.05
<i>Amphiascus parvus</i>	0	1	1	0.05
<i>Bulbamphiascus imus</i>	1	0	1	0.05
<i>Dactylopodella flava</i>	1	0	1	0.05
<i>Harpacticus flexus</i>	0	1	1	0.05
<i>Normanella minuta</i>	1	0	1	0.05
<i>Phyllothalestris mysis</i>	1	0	1	0.05
<i>Pseudobradya similis</i>	1	0	1	0.05
<i>Rhynchothalestris helgolandica</i>	1	0	1	0.05
(?) <i>Stenhelia</i> sp. A	1	0	1	0.05
<i>Tegastes</i> sp. B	1	0	1	0.05
<i>Tisbe</i> cf. <i>tenera</i>	1	0	1	0.05
<i>Tisbe</i> sp. A	1	0	1	0.05
			1,870	100

BS97. Silt-smothered turf of small/stunted algae (predominantly *Brongniartella byssoides*) and bryozoans (including *Amathia lendigera* and *Scrupocellaria scruposa*), 6.4 m BCD, Outer Mulberry, 27.7.1997 (silt + turf 180 ml, turf 8.5 g).

82 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Harpacticus obscurus</i>	129	68	197	12.22
<i>Haloschizopera</i> sp. D	80	48	128	7.94
<i>Paralaophonte brevirostris</i>	76	45	121	7.50
<i>Laophontopsis borealis</i>	68	42	110	6.82
<i>Enhydrosoma propinquum</i>	45	48	93	5.77
<i>Cletodes tenuipes</i>	33	50	83	5.15
<i>Pseudobradya minor</i>	69	11	80	4.96
<i>Amphiascus tenuiremis</i>	29	43	72	4.47
<i>Delavalia normani normani</i>	34	30	64	3.97
<i>Ameira parvula parvula</i>	31	28	59	3.66
<i>Dactylopusia tisboides</i>	19	32	51	3.16
<i>Ectinosoma</i> sp. A	31	12	43	2.67
<i>Enhydrosoma longifurcatum</i>	17	18	35	2.17
<i>Ectinosoma melaniceps</i>	25	9	34	2.11
<i>Laophonte cornuta</i>	17	12	29	1.80
<i>Normanella tenuifurca</i>	17	6	23	1.43
<i>Pararobertsonia</i> sp. A	10	12	22	1.36
<i>Laophonte parvula</i>	9	10	19	1.18
<i>Amphiascus</i> cf. <i>aegyptius</i>	12	6	18	1.12
<i>Ectinosoma normani</i>	17	1	18	1.12
<i>Ambunguipes rufocincta</i>	10	7	17	1.05
<i>Diarthrodes</i> sp. A	10	7	17	1.05
<i>Paralaophonte congenera congenera</i>	6	11	17	1.05
<i>Tisbe</i> cf. <i>tenera</i>	14	1	15	0.93
<i>Ameira scotti</i>	11	3	14	0.87
<i>Delavalia</i> sp. A	12	2	14	0.87
<i>Proameira</i> sp. A	7	7	14	0.87
<i>Longipedia helgolandica</i>	5	7	12	0.74
<i>Ameira</i> sp. A	7	3	10	0.62
<i>Proameira</i> sp. B	7	3	10	0.62
<i>Diarthrodes pygmaeus</i>	5	3	8	0.50
<i>Halectinosoma cooperatum</i>	8	0	8	0.50
<i>Proameira</i> sp. D	6	2	8	0.50
<i>Diarthrodes ponticus ponticus</i>	3	4	7	0.43
<i>Halectinosoma brunneum</i>	6	1	7	0.43
<i>Halophytophilus</i> sp. D	2	5	7	0.43

<i>Dactylopusia vulgaris vulgaris</i>	3	3	6	0.37
<i>Diosaccus tenuicornis</i>	6	0	6	0.37
<i>Halectinosoma paradistinctum</i>	5	1	6	0.37
<i>Pseudobradya similis</i>	5	1	6	0.37
<i>Tisbe</i> sp. A	3	3	6	0.37
<i>Laophonte elongata elongata</i>	3	2	5	0.31
<i>Microarthridion</i> sp. A	5	0	5	0.31
<i>Pseudameira crassicornis</i>	4	1	5	0.31
<i>Amonardia normani</i>	4	0	4	0.25
<i>Amphiascopsis thalestroides</i>	1	3	4	0.25
<i>Asellopsis hispida</i>	4	0	4	0.25
<i>Bulbamphiascus imus</i>	2	2	4	0.25
<i>Eurycletodes similis</i>	0	4	4	0.25
<i>Mesochra pygmaea</i>	4	0	4	0.25
<i>Pseudobradya beduina beduina</i>	4	0	4	0.25
<i>Tisbe holothuriae</i>	3	1	4	0.25
<i>Halectinosoma herdmani</i>	3	0	3	0.19
<i>Haloschizopera pygmaea</i>	3	0	3	0.19
<i>Laophonte brevifurca</i>	1	2	3	0.19
<i>Laophonte inornata</i>	3	0	3	0.19
<i>Paradactylopodia brevicornis</i>	2	1	3	0.19
<i>Parathalestris hibernica</i>	1	2	3	0.19
<i>Ameira</i> sp. B	2	0	2	0.12
<i>Ameira</i> sp. D	2	0	2	0.12
<i>Ameiropsis mixta</i>	1	1	2	0.12
<i>Amphiascopsis cinctus</i>	1	1	2	0.12
<i>Dactylopodella flava</i>	1	1	2	0.12
<i>Laophontid</i> sp. N	2	0	2	0.12
<i>Parategastes sphaericus</i>	2	0	2	0.12
<i>Rhizothrix</i> sp. B	2	0	2	0.12
<i>Stylicletodes longicaudatus</i>	2	0	2	0.12
<i>Alteutha oblonga</i>	0	1	1	0.06
<i>Amphiascus propinquus</i>	1	0	1	0.06
<i>Bradya scotti</i>	1	0	1	0.06
<i>Coullia</i> sp. A	1	0	1	0.06
<i>Dactylopodella</i> sp. A	1	0	1	0.06
<i>Danielssenia typica</i>	1	0	1	0.06
<i>Delavalia reflexa</i>	1	0	1	0.06
<i>Halectinosoma angulifrons</i>	1	0	1	0.06
<i>Haloschizopera</i> sp. A	0	1	1	0.06
<i>Microarthridion reductum</i>	1	0	1	0.06
<i>Paradactylopodia</i> sp. A	1	0	1	0.06
<i>Paradactylopodia</i> sp. B	1	0	1	0.06
<i>Pseudobradya fusca</i>	1	0	1	0.06
<i>Rhynchothalestris helgolandica</i>	1	0	1	0.06
<i>Tisbe</i> cf. <i>longicornis</i>	0	1	1	0.06
			1,612	100

BS98. Silty bryozoan turf (predominantly *Bugula plumosa*), 6.6 m BCD, Outer Mulberry, 27.7.1997 (33.0 g).

67 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Laophonte elongata elongata</i>	481	377	858	18.82
<i>Amphiascus tenuiremis</i>	298	(500)	798	17.51
<i>Ameira scotti</i>	182	164	346	7.59
<i>Ectinosoma melaniceps</i>	216	73	289	6.34
<i>Dactylopusia vulgaris vulgaris</i>	184	81	265	5.81
<i>Paralaophonte brevirostris</i>	145	118	263	5.77
<i>Dactylopodella flava</i>	133	76	209	4.59
<i>Ambunguipes rufocincta</i>	77	94	171	3.75
<i>Laophonte serrata</i>	117	35	152	3.33
<i>Ameira</i> sp. D	87	49	136	2.98
<i>Laophonte cornuta</i>	55	66	121	2.65
Laophontid sp. N	70	31	101	2.22
<i>Paradactylopodia</i> sp. A	67	28	95	2.08
<i>Rhynchothalestris helgolandica</i>	90	0	90	1.97
<i>Eurycletodes similis</i>	36	29	65	1.43
<i>Amonardia normani</i>	52	0	52	1.14
<i>Tisbe</i> sp. A	29	21	50	1.10
<i>Ameira parvula parvula</i>	35	13	48	1.05
<i>Harpacticus obscurus</i>	32	15	47	1.03
<i>Paralaophonte congenera congenera</i>	35	10	45	0.99
<i>Amphiascus propinquus</i>	24	(20)	44	0.97
<i>Diosaccus tenuicornis</i>	36	0	36	0.79
<i>Ectinosoma</i> sp. A	28	3	31	0.68
<i>Amphiascus</i> cf. <i>aegyptius</i>	14	10	24	0.53
<i>Paradactylopodia brevicornis</i>	13	10	23	0.50
<i>Dactylopusia tisboides</i>	14	5	19	0.42
<i>Dactylopusia vulgaris dissimilis</i>	10	8	18	0.39
<i>Mesochra</i> sp. A	10	7	17	0.37
<i>Amphiascus hirtus</i>	16	0	16	0.35
<i>Halophytophilus</i> sp. D	4	11	15	0.33
<i>Tisbe</i> cf. <i>tenera</i>	9	4	13	0.29
<i>Laophontodes typicus</i>	4	7	11	0.24
<i>Normanella tenuifurca</i>	6	4	10	0.22
<i>Ectinosoma normani</i>	8	0	8	0.18
<i>Mesochra pygmaea</i>	7	0	7	0.15
<i>Parategastes sphaericus</i>	6	1	7	0.15
<i>Proameira</i> sp. D	6	0	6	0.13
<i>Perissocope</i> sp. A	5	0	5	0.11
<i>Longipedia helgolandica</i>	3	1	4	0.09
<i>Psyllocamptus propinquus</i>	2	2	4	0.09
<i>Idyanthe pusilla</i>	1	2	3	0.07
<i>Laophonte brevifurca</i>	2	1	3	0.07
<i>Parathalestris hibernica</i>	1	2	3	0.07
<i>Robertsonia</i> cf. <i>knoxii</i>	3	0	3	0.07
<i>Ameiropsis mixta</i>	1	1	2	0.04
<i>Haloschizopera</i> sp. A	2	0	2	0.04
<i>Laophonte inornata</i>	1	1	2	0.04
<i>Mesochra</i> cf. <i>inconspicua</i>	1	1	2	0.04
<i>Alteutha interrupta</i>	0	1	1	0.02
<i>Amphiascopsis thalestroides</i>	1	0	1	0.02
<i>Amphiascus parvus</i>	1	0	1	0.02
<i>Delavalia normani normani</i>	0	1	1	0.02
<i>Diarthrodes</i> sp. A	1	0	1	0.02
<i>Halectinosoma cooperatum</i>	1	0	1	0.02
<i>Harpacticus uniremis uniremis</i>	1	0	1	0.02
Laophontid sp. J	0	1	1	0.02
<i>Laophontopsis borealis</i>	1	0	1	0.02
<i>Longipedia minor</i>	1	0	1	0.02

<i>Orthopsyllus linearis linearis</i>	1	0	1	0.02
<i>Paradactylopodia</i> sp. B	0	1	1	0.02
<i>Parathalestris harpacticoides</i>	1	0	1	0.02
<i>Psyllocampus</i> sp. A	1	0	1	0.02
<i>Tegastes longimanus</i>	1	0	1	0.02
<i>Tegastes nanus</i>	1	0	1	0.02
<i>Thalestris rufoviolasces</i>	1	0	1	0.02
<i>Tisbe gracilis</i> -group sp. A	0	1	1	0.02
<i>Tisbe pentataenia</i>	0	1	1	0.02
			4,558	100

GRAVEL

BS71. Silty gravel, 10.0 m BCD, NE of Palace (Brighton) Pier Reef, 16.9.1995 (1500 ml).

33 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Enhydrosoma propinquum</i>	312	148	460	51.74
<i>Laophontopsis borealis</i>	117	19	136	15.30
<i>Ameira parvula parvula</i>	40	20	60	6.75
<i>Cletodes tenuipes</i>	35	18	53	5.96
<i>Amphiascus propinquus</i>	17	13	30	3.37
<i>Ectinosoma normani</i>	26	4	30	3.37
<i>Pseudobradya minor</i>	25	1	26	2.92
<i>Normanella tenuifurca</i>	10	2	12	1.35
<i>Halophytophilus</i> sp. D	9	2	11	1.24
<i>Ameiropsis mixta</i>	5	3	8	0.90
<i>Amphiascus parvus</i>	5	3	8	0.90
<i>Dactylopodella</i> sp. A	5	1	6	0.67
<i>Paramphiascella fulvofasciata</i>	4	2	6	0.67
<i>Halectinosoma cooperatum</i>	4	1	5	0.56
<i>Proameira</i> sp. D	5	0	5	0.56
<i>Paralaophonte brevisrostris</i>	4	0	4	0.45
<i>Pseudobradya similis</i>	4	0	4	0.45
<i>Ectinosoma</i> sp. A	3	0	3	0.34
<i>Halectinosoma brunneum</i>	1	2	3	0.34
<i>Halectinosoma mixtum</i>	2	0	2	0.22
<i>Laophonte inornata</i>	2	0	2	0.22
<i>Longipedia helgolandica</i>	0	2	2	0.22
<i>Longipedia minor</i>	2	0	2	0.22
<i>Normanella minuta</i>	2	0	2	0.22
<i>Ameira</i> sp. D	1	0	1	0.11
<i>Asellopsis hispida</i>	1	0	1	0.11
<i>Bulbamphiascus imus</i>	0	1	1	0.11
<i>Canuella perplexa</i>	0	1	1	0.11
<i>Esola bulbifera</i>	1	0	1	0.11
<i>Haloschizopera pygmaea</i>	1	0	1	0.11
<i>Laophonte parvula</i>	1	0	1	0.11
<i>Mesochra pygmaea</i>	1	0	1	0.11
<i>Robertsonia</i> cf. <i>knoxii</i>	0	1	1	0.11
			889	100

BS79. Gravel/mudstone material (including mudstone-derived fine sediment), 21.2 m BCD, Mixon Hole, 17.9.1995 (860 ml).

45 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Longipedia helgolandica</i>	30	26	56	12.50
<i>Ectinosoma melaniceps</i>	38	5	43	9.60
<i>Filexilia attenuata</i>	26	17	43	9.60
<i>Paramphiascopsis cf. longirostris</i>	11	31	42	9.38
<i>Phyllopodopsyllus bradyi</i>	12	29	41	9.15
<i>Ectinosoma sp. A</i>	30	6	36	8.04
<i>Ameira parvula parvula</i>	16	10	26	5.80
<i>Dactylopodella sp. A</i>	16	5	21	4.69
<i>Amphiascus cf. aegyptius</i>	10	9	19	4.24
<i>Diarthrodes andrewi</i>	8	6	14	3.13
<i>Paralaophonte brevirostris</i>	5	7	12	2.68
<i>Proameira sp. D</i>	7	4	11	2.46
<i>Bulbamphiascus imus</i>	4	4	8	1.79
<i>Dactylopusia tisboides</i>	6	2	8	1.79
<i>Longipedia minor</i>	7	1	8	1.79
<i>Halectinosoma brunneum</i>	4	1	5	1.12
<i>Laophontid sp. L</i>	0	5	5	1.12
<i>Amphiascus propinquus</i>	3	1	4	0.89
<i>Pardactylopodia brevicornis</i>	3	1	4	0.89
<i>Paramphiascella fulvofasciata</i>	2	2	4	0.89
<i>Parathalestris hibernica</i>	2	2	4	0.89
<i>Ambungiipes rufocincta</i>	2	1	3	0.67
<i>Ameiropsyllus monardi</i>	0	3	3	0.67
<i>Amonardia normani</i>	3	0	3	0.67
<i>Cletodes tenuipes</i>	2	0	2	0.45
<i>Foweya anglica</i>	2	0	2	0.45
<i>Halectinosoma cooperatum</i>	2	0	2	0.45
<i>Tisbe holothuriae</i>	1	1	2	0.45
<i>Alteutha oblonga</i>	1	0	1	0.22
<i>Asellopsis hispida</i>	1	0	1	0.22
<i>Canuella perplexa</i>	1	0	1	0.22
<i>Dactylopusia vulgaris dissimilis</i>	0	1	1	0.22
<i>Diarthrodes sp. A</i>	0	1	1	0.22
<i>Enhydrosoma propinquum</i>	1	0	1	0.22
<i>Halophytophilus sp. D</i>	0	1	1	0.22
<i>Haloschizopera sp. A</i>	0	1	1	0.22
<i>Harpacticus obscurus</i>	1	0	1	0.22
<i>Hastigerella sp. A</i>	1	0	1	0.22
<i>Laophonte parvula</i>	0	1	1	0.22
<i>Laophontid sp. O</i>	0	1	1	0.22
<i>Normanella tenuifurca</i>	1	0	1	0.22
<i>Orthopsyllus linearis linearis</i>	1	0	1	0.22
<i>Pseudobradya minor</i>	1	0	1	0.22
<i>Pseudobradya similis</i>	1	0	1	0.22
<i>Tisbe cf. longicornis</i>	0	1	1	0.22
			448	100

BS100. Gravel (+ small pebbles and a little sand), 6.7 m BCD, 1 km S of Mixon Beacon, 6.9.1997 (900 ml).

43 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Longipedia helgolandica</i>	57	53	110	27.64
<i>Ectinosoma</i> sp. A	52	11	63	15.83
<i>Ameira parvula parvula</i>	27	21	48	12.06
<i>Zaus caeruleus</i>	21	2	23	5.78
<i>Filexilia</i> sp. A	9	9	18	4.52
<i>Longipedia minor</i>	11	4	15	3.77
<i>Ectinosoma melaniceps</i>	13	0	13	3.27
<i>Dactylopodella</i> sp. A	6	3	9	2.26
<i>Dactylopusia tisbooides</i>	5	4	9	2.26
<i>Amphiascus</i> cf. <i>aegyptius</i>	5	3	8	2.01
<i>Harpacticus obscurus</i>	8	0	8	2.01
<i>Proameira</i> sp. D	5	3	8	2.01
<i>Paradactylopodia brevicornis</i>	6	1	7	1.76
<i>Halectinosoma brunneum</i>	6	0	6	1.51
<i>Cletodes tenuipes</i>	5	0	5	1.26
<i>Laophontopsis borealis</i>	3	2	5	1.26
<i>Pseudameira crassicornis</i>	4	1	5	1.26
<i>Halectinosoma cooperatum</i>	3	1	4	1.01
<i>Ameira scotti</i>	3	0	3	0.75
<i>Asellopsis hispida</i>	3	0	3	0.75
<i>Paralaophonte brevirostris</i>	1	2	3	0.75
<i>Filexilia attenuata</i>	1	1	2	0.50
<i>Halophytophilus</i> sp. D	2	0	2	0.50
<i>Paradactylopodia</i> sp. B	0	2	2	0.50
<i>Ambunguipes rufocincta</i>	0	1	1	0.25
<i>Amonardia normani</i>	1	0	1	0.25
<i>Amphiascus propinquus</i>	1	0	1	0.25
<i>Ectinosoma normani</i>	1	0	1	0.25
<i>Hastigerella</i> sp. B	1	0	1	0.25
Laophontid sp. L	0	1	1	0.25
Laophontid sp. P	0	1	1	0.25
Laophontid sp. Q	0	1	1	0.25
<i>Leptastacus laticaudatus</i>	1	0	1	0.25
<i>Mesochra pygmaea</i>	1	0	1	0.25
<i>Parategastes sphaericus</i>	1	0	1	0.25
<i>Phyllopodopsyllus bradyi</i>	0	1	1	0.25
<i>Pseudobradya fusca</i>	1	0	1	0.25
<i>Pseudobradya minor</i>	1	0	1	0.25
<i>Psyllocamptus propinquus</i>	0	1	1	0.25
<i>Psyllocamptus</i> sp. A	1	0	1	0.25
<i>Sigmatidium</i> sp. A	1	0	1	0.25
<i>Sigmatidium</i> sp. B	1	0	1	0.25
<i>Tegastes falcatus</i>	0	1	1	0.25
			398	100

SAND

BS45. Fine sand, 6.5 m BCD, 2 km SSE of Roedean School, Brighton, 6.5.1995 (500 ml).

14 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Pseudobradya beduina beduina</i>	218	109	327	70.47
<i>Canuella perplexa</i>	35	28	63	13.58
<i>Laophontopsis borealis</i>	20	8	28	6.03
<i>Enhydrosoma propinquum</i>	18	1	19	4.09
<i>Asellopsis hispida</i>	6	0	6	1.29
<i>Cletodes tenuipes</i>	5	0	5	1.08
<i>Thompsonula hyaenae</i>	2	3	5	1.08
<i>Longipedia helgolandica</i>	1	3	4	0.86
<i>Halectinosoma herdmani</i>	2	0	2	0.43
<i>Ectinosoma normani</i>	1	0	1	0.22
<i>Enhydrosoma longifurcatum</i>	1	0	1	0.22
<i>Halectinosoma canaliculatum</i>	1	0	1	0.22
<i>Microarthridion</i> sp. A	1	0	1	0.22
<i>Paralaophonte brevisrostris</i>	1	0	1	0.22
			464	100

BS48. Fine sand, 9.0 m BCD, SE of Palace (Brighton) Pier Reef, 6.5.1995 (500 ml).

12 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Canuella perplexa</i>	34	32	66	60.00
<i>Pseudobradya minor</i>	16	0	16	14.55
<i>Halectinosoma herdmani</i>	7	0	7	6.36
<i>Halectinosoma canaliculatum</i>	6	0	6	5.45
<i>Pseudobradya rhea</i>	6	0	6	5.45
<i>Rhizothrix minuta</i>	2	0	2	1.82
<i>Rhizothrix wilsoni</i>	2	0	2	1.82
<i>Asellopsis hispida</i>	1	0	1	0.91
<i>Haloschizopera</i> sp. B	1	0	1	0.91
<i>Laophontopsis borealis</i>	1	0	1	0.91
<i>Pseudameira crassicornis</i>	1	0	1	0.91
<i>Tisbe furcata furcata</i>	0	1	1	0.91
			110	100

BS64. Fine sand (with a few small bivalve shells and c. 4-5% shell fragments), 11.2 m BCD, 5 km SSE of Brighton Marina, 22.7.1995 (1100 ml).

16 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Pseudobradya minor</i>	253	23	276	34.54
<i>Halectinosoma herdmani</i>	211	25	236	29.54
<i>Halectinosoma canaliculatum</i>	75	24	99	12.39
<i>Pseudobradya rhea</i>	71	11	82	10.26
<i>Canuella perplexa</i>	22	35	57	7.13
<i>Rhizothrix minuta</i>	20	2	22	2.75
<i>Enhydrosoma propinquum</i>	5	1	6	0.75
<i>Asellopsis hispida</i>	5	0	5	0.63
<i>Euterpina acutifrons</i>	4	0	4	0.50
<i>Alteutha interrupta</i>	1	2	3	0.38
<i>Ectinosoma</i> sp. A	2	0	2	0.25
<i>Longipedia helgolandica</i>	1	1	2	0.25
<i>Paralaophonte brevisrostris</i>	2	0	2	0.25
<i>Asellopsis intermedia</i>	1	0	1	0.13
<i>Dactylopusia vulgaris vulgaris</i>	0	1	1	0.13
<i>Longipedia minor</i>	1	0	1	0.13
			799	100

BS68. Fine silty sand, 21.5 m BCD, 4 km SSW of Seaford, 23.7.1995 (1500 ml).

24 species	Number of adults			Dominance (%)
	♀♀	♂♂	Total	
<i>Halectinosoma herdmani</i>	169	19	188	41.78
<i>Asellopsis intermedia</i>	52	5	57	12.67
<i>Canuella perplexa</i>	23	30	53	11.78
<i>Halectinosoma canaliculatum</i>	36	16	52	11.56
<i>Asellopsis hispida</i>	22	2	24	5.33
<i>Haloschizopera</i> sp. B	6	12	18	4.00
<i>Rhizothrix minuta</i>	10	3	13	2.89
<i>Dactylopusia vulgaris vulgaris</i>	1	6	7	1.56
<i>Enhydrosoma propinquum</i>	2	4	6	1.33
<i>Ameira parvula parvula</i>	4	0	4	0.89
<i>Ameira</i> sp. C	3	(1)	4	0.89
<i>Longipedia helgolandica</i>	2	2	4	0.89
<i>Hastigerella leptoderma</i>	2	1	3	0.67
<i>Leptastacus laticaudatus</i>	3	0	3	0.67
<i>Pseudobradya minor</i>	3	0	3	0.67
<i>Halectinosoma</i> sp. A	2	0	2	0.44
<i>Mesochra pygmaea</i>	0	2	2	0.44
<i>Ameirid</i> sp. A	1	0	1	0.22
<i>Cletodes tenuipes</i>	0	1	1	0.22
<i>Ectinosoma</i> sp. A	1	0	1	0.22
<i>Leptastacid</i> sp. A	0	1	1	0.22
<i>Paralaophonte brevisrostris</i>	0	1	1	0.22
<i>Proameira</i> sp. D	1	0	1	0.22
<i>Pseudobradya rhea</i>	1	0	1	0.22
			450	100

