

JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM

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Revised September 2018

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carefully

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Experimental design. All studies must have been conducted in accordance with institutional, national and international guidelines concerning the use of animals in research and/or the sampling of endangered species.

Preparation. The *JMBA* invites contributions as:

1. Research articles + figures + tables.
2. Reviews of current topics of interest.

E-mail. Please provide an e-mail address for the corresponding author. This will appear on the title page of each article.

Title (bold font). Should be no more than 20 words with no authorities associated with the species. A running head of not more than 43 characters should be suggested.

Authors addresses should follow the title. Use superscript numbers to indicate different addresses.

Abstracts: A concise abstract should outline the scope, main results and conclusion(s) of the paper without discussion or authorities associated with species. Species name(s) will be roman (normal).

Keywords. Please provide up to ten key words.

Headings. Follow the style and hierarchy for each section as shown below (but see later for taxonomy):

INTRODUCTION (1st heading, upper case, left justified).

MATERIALS AND METHODS (1st heading, upper case, left justified).

RESULTS (1st heading, upper case, left justified) then:

The sampled population (2nd heading, bold, left justified)
DENSITY AND BIOMASS (3rd heading, small caps, left justified)
Reproduction and development (4th heading, lower case italics, left justified)

DISCUSSION (1st heading, upper case, left justified).
Subheadings, if used, should follow the instructions under RESULTS.

ACKNOWLEDGMENTS (1st heading, upper case, left justified).
You may acknowledge individuals or organizations that provided advice, support (non-financial). Formal financial support and funding should be listed in the following section.

FINANCIAL SUPPORT. Please provide details of the sources of financial support of all authors, including grant numbers. For example, 'This work was supported by the Medical Research Council (grant number XXXXXXXX)'. Multiple grant numbers should be separated by a comma and space, and where research was funded by more than one agency, the different agencies should be separated by a semi-colon, with 'and' before the final funder. Grants held by different authors should be identified as belonging to individual authors by the authors' initials. For example, 'This work was supported by the Wellcome Trust (A.B., grant numbers XXXX, yyyy), (C.D., grant number ZZZZ); the Natural Environment Research Council (E.F., grant number FFFF); and the National Institutes of Health (A.B., grant number GGGG), (E.F., grant number HHHH)'. Where no specific funding has been provided for research, please provide the following statement: 'This research received no specific grant from any funding agency, commercial or not-for-profit sectors'.

Taxonomy should be presented as follows:

SYSTEMATICS (1st heading, upper case, centre justified)
Order AMPHIPODA Latreille, 1816
Suborder GAMMARIDEA Latreille, 1803
Family UROTHOIDEAE Bousfield, 1978
Genus *Carangolia* Barnard, 1961
Carangolia barnardi sp. nov.
(Figures 1–6)

Carangolia spp.: Elizalde *et al.*, 1993; Sorbe & Weber, 1995; Dauvin & Sorbe, 1995. (left justified)

TYPE MATERIAL (taxonomic sub-headings, small caps, left justified)

Holotype: adult female (oostegites developed) 2.69 mm, completely dissected and mounted on 12 slides. (OXYBENT VIII, TS05-R, N4; coordinates: 43°49.34'N 02°02.74'W; water depth: 550 m) (MNHN-Am5129); coll. J.-C. Sorbe, 19 April 1999.

Paratype: adult male (penile papillae developed) 3.88 mm partially dissected, with both first antennae, maxillipeds, epimeral plates, pleopods, and second antenna and second gnathopod mounted on three slides; rest as five pieces preserved in 70% ethanol. (ECOMARGE 93, TS08-A, Ni; 44°34.57'N 02°12.60'W; water depth: 740–746 m) (MNHN-Am5130); coll. J.-C. Sorbe, 23 June 1993. Twenty-one additional specimens in J.-C. Sorbe Collection.

COMPARATIVE MATERIAL EXAMINED

Carangolia cornuta Bellan-Santini & Ledoyer, 1986. Holotype: female completely dissected on single slide (Museo Civico di Storia Naturale di Verona, slide no. 3276); RV 'Marion Dufresne' Cruise MD08 to Marion and Prince Edward Islands, Station 17BB97 (Marion Island: 46°52.5'S 37°53.5'E); collected on 25 March 1976 with Okean grab on muddy sand, 110 m depth.

DIAGNOSIS

Carangolia with well developed pointed process on posterolateral corner of head. Coxal plate 1 with anterior and posterior margins subparallel, distal margin straight. Coxal plate 7 pointed. Basis of pereopod 6 slender, not oblong. Dactylus of pereopod 5 elongate (more than 12 times longer than wide). Telson devoid of spines.

KEY FOR THE GENERA OF THE ALVINOCARIDIDAE (small caps, left justified)

1. Posterior telson margin armed only with spines, without plumose seta.....2
Posterior telson margin armed with plumose.....3
(Insert a line space between each point)
2. Rostrum long, depressed laterally; pterygostomal spine present; lash on first maxilliped rudimentary.....*Alvinocaris*
Rostrum short, compressed dorsoventrally, without teeth; pterygostomal spine absent; lash on first maxilliped well developed.....*Jorania*
3. Short rostrum present; exposed eyes separated from each other; distolateral spine present on *scaphocerite*.....*Chorocaris*

Text files should be submitted as line-numbered Microsoft Word files and should include Figure legends.

Figures. Should be referred to in numerical order and in full in the body of the text (e.g. Figure 1). Figure legends should take the following style:

Fig. 1. *Ceratothoa collaris* Schioedte & Meinert, 1883, adult female: (A) pereopod 1; (B) pereopod 7; (C–G) pleopods 1–5 ventral view; (H) uropods. Scale bars: A–G, 2 mm; H, 3 mm.

Figures' submission. IMAGES should be submitted as tif (preferably), jpg or png file-types. FIGURES SUPPLIED AS EMBEDDED OBJECTS IN MICROSOFT WORD OR AS PDF FILES CANNOT BE ACCEPTED. To ensure adequate print quality, please submit greyscale tif files NO LESS than 1200 pixels wide and NO MORE than 2500 pixels wide. These correspond to 300 dpi (118 pixels/cm) resolution at single (8.5 cm) and double (17.5 cm) column size respectively. The width should be checked in image editing software such as Photoshop, PaintShop Pro etc. Very high resolution images should be reduced to 2500 pixel width BEFORE submission to avoid uploading problems during submission.

Colour images cost £200 (GBP) per page in print but are free in the online version. To have a colour image online and a greyscale version in print it is ESSENTIAL to submit BOTH greyscale and colour versions. THE JOURNAL WILL NOT CONVERT COLOUR IMAGES TO GREYSCALE. If you request colour figures in the printed version, you will be contacted by CCC-Rightslink who are acting on our behalf to collect Author Charges. Please follow their

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All figures should be labelled with a medium weight sans serif font of an appropriate size to result in 8 point (3.33 mm) type when reduced to published size. If figures are in parts, please label with upper case letters (A, B, C etc.) in the top left corner of each part.

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Tables should be submitted as Microsoft Word tables. The journal cannot accept text formatted with tab characters or images of tables embedded in word files.

Tables should not be excessive in size and headed by informative legends. Legend, headings and footnote are delimited by horizontal lines as shown in the example below; table headers are centred and roman (normal) typeface. Column headings are bold. The table below gives an example of layout:

Table 1. Tenacity of *Elminius modestus* and *Balanus perforatus* cypris larvae to natural biofilms developed at high (83 s^{-1}) and low (15 s^{-1}) shear rates. Forces of temporary adhesion are given as 10^4 Nm^{-2} .

Surface	<i>Elminius modestus</i>			<i>Balanus perforatus</i>		
	N	Mean	±SE	N	Mean	±SE
No biofilm	30	8.19	0.258	30	6.75	0.179
Low shear	30	7.59	0.274	30	4.94	0.136
High Shear	30	9.20	0.219	30	6.50	0.162
	Bartlett's statistic = 1.44 <i>P</i> =0.486			Bartlett's statistic = 2.79 <i>P</i> =0.248		

N, number; SE, standard error.

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Supplementary Material

The online platform gives authors the opportunity to include data that would be impossible or impractical to include in the printed version. These data might substantially enhance the importance of the research and might also be of benefit to readers. Authors may include tables and figures as well as data such as videos, 3-D structures/images, extensive datasets and any other supplementary material not suitable for print duplication. All supplementary material must be submitted with the original manuscript. Supplementary data should be referred to in the text with the prefix "S" (e.g. Supplementary Table S1, Supplementary Figure S1). Supplementary files will not be copy-edited, and will be published as supplied.

Genus and species names should be *italicized* and appear in full at each mention in a new section and if starting a sentence. In italicized text (Abstracts) species names should be normal typeface.

Citation of literature. References in the text should refer to the author's name (no initials) and year of publication. Two authors should be cited using '&' (Rainbow & Dellinger, 1993); for more than two authors, the name of the first author followed by '*et al.*' (Lallier *et al.*, 1987). Where an article is published but yet to be allocated to an Issue, the citation should take the form (Relles *et al.*, published online 24 August 2018). Online resources should be cited following the convention (Continuous Plankton Recorder Survey, accessed online 23 September 2018). When citing more than one publication use date order and a semi-colon as a separator, e.g. (Mykels & Skinner, 1985a, b; Skinner, 1996; Gorind *et al.*, 1997).

All literature quoted in the text must be listed in alphabetical and chronological order of author names at the end of each manuscript. When more than one publication with the same first author is cited the following order alphabetically applies: (a) single author, according to publication dates; (b) same author and one co-author; (c) same author and more than one co-author.

The manuscript should be carefully checked to ensure the details of authors and dates cited in the text exactly match those in the reference list. Cross checking of references in the text to the cited literature and vice versa is the responsibility of the author.

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Dashes. Hyphen between connecting words; en-dash between ranges e.g. 3–10, B–G, and between opposite words e.g. male– female pairs, size– frequency, etc.

REFERENCES (1st heading, upper case, left justified)

Journals; article allocated to an Issue:

Marshall SM, Nicholls AG and Orr AP (1939) On the growth and feeding of young herring in the Clyde. *Journal of the Marine Biological Association of the United Kingdom* **23**, 427–455.

Journals; article published online ahead of Issue allocation:

Relles NJ, Patterson MR and Jones DOB. Change detection in a Marine Protected Area (MPA) over three decades on Bonaire, Dutch Caribbean. *Journal of the Marine Biological Association of the United Kingdom*. Published online: 24 August 2018.

Books:

Cushing DH (1981) *Fisheries biology, a study in population dynamics*. 2nd edition. Madison: University of Wisconsin Press.

Chapters from books:

Weir BS (1990) Intraspecific differentiation. In Hillis D.M. and Moritz C. (eds) *Molecular systematics*. Sunderland, MA: Sinauer Associates, pp. 373–410.

Symposium proceedings:

Cinelli F, Fresi E, Mazzella L, Pansini M, Pronzato R and Svoboda A (1977) Distribution of benthic phyto- and zoocenoses along a light gradient in a superficial marine cave. In Keegan B.F., Ceidigh P.O. and Boaden P.J.S. (eds) *Proceedings of the Eleventh European Symposium on Marine Biology, University College, Galway, 5–11 October 1976. Biology of benthic organisms*. Oxford: Pergamon Press, pp.173–183.

Book series:

El Haj AJ, Whiteley NM and Harrison P (1992) Molecular regulation of muscle growth over the crustacean moult cycle. In El Haj A.J. (ed.) *Molecular biology of muscle*. Cambridge: Cambridge University Press, pp. 151–165. [SEB Seminar Series, no. 46.]

Occasional Publications :

Moore PG (1984) The fauna of the Clyde Sea area. Crustacea: Amphipoda. *University Marine Biological Station Millport, Occasional Publications*, no. 2, 84 pp.

Reports:

Gaard E (1987) An investigation of the squid *Loligo forbesi* Steenstrup on Faroe Bank. *International Council for the Exploration of the Sea (CM Papers and Reports)*, CM 1987/K:18, 9 pp.

Baird Jr FT (1953) Observations on the early life history of the giant scallop (*Pecten magellanicus*). *Research Bulletin. Department of Sea and Shore Fisheries, Maine*, no. 14, 7 pp.

Theses:

Leighton DL (1968) *A comparative study of food selection and nutrition in the abalone, Haliotis rufescens Swainson, and the purple sea urchin, Strongylocentrotus purpuratus Stimpson*. PhD thesis. University of California, San Diego, USA.

Online resources:

Continuous Plankton Recorder Survey. Phytoplankton Colour Index – Annual Mean, 2014. Geospatial Representation of CPR Data (North

Atlantic). <https://www.cprsurvey.org/data/map-data/> Accessed online 23 September 2018.

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