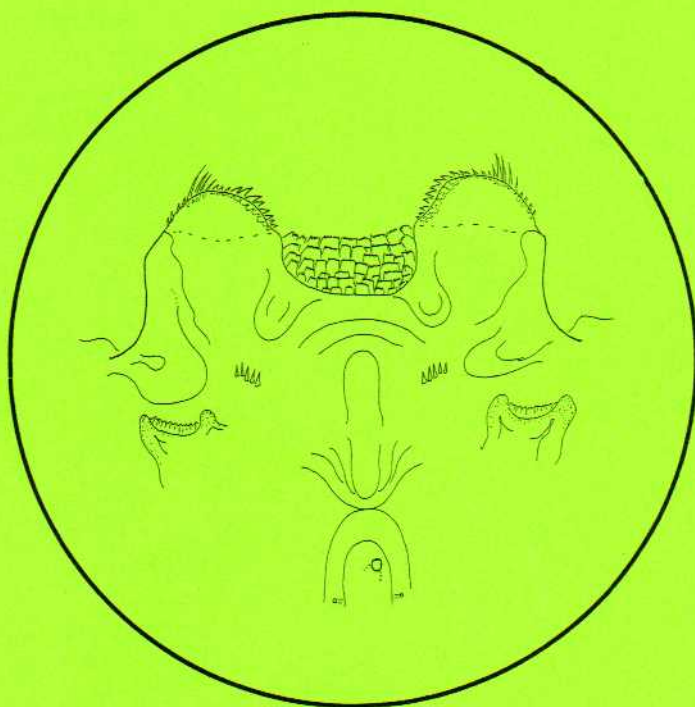


# MONOCULUS

Copepod Newsletter



Nr. 42



OCTOBER 2001

Bibliotheks- und Informationssystem der Universität Oldenburg  
North American Edition distributed by National Museums of Canada

# MONOCULUS

Copepod Newsletter

Number 42

October 2001

Edited by: Hans-U. Dahms and H. Kurt Schminke, Fachbereich 7 (Bio, Geo- und Umweltwissenschaften), Universität Oldenburg, D-26111 Oldenburg, Germany.  
Produced by: Bibliotheks- und Informationssystem (BIS) der Universität Oldenburg, Ammerländer Heerstr. 67/99, D-26111 Oldenburg, Germany.

Distributed in Canada by: E.J. Maly, Concordia University, Biology Dept. 1455 de Maisonneuve Blvd. W, Quebec H3G 1M8 Montreal, Canada.

Distributed in Europe and overseas by: H.-U. Dahms, Universität Oldenburg, Fachbereich Bio-, Geo- und Umweltwissenschaften, D-26111 Oldenburg, Germany.

Distributed in India by: M. Madhupratap, National Institute of Oceanography, Dona Paula, Goa 40 3004, India.

Distributed in Japan by: S.-i. Uye, Hiroshima University, Faculty of Applied Biological Science, 4-4 Kagaeniyama 1-chome, 724 Higashi-Hiroshima, Japan.

Distributed in Taiwan by: C.-t. Shih, Natn. Univ. of Taiwan, Dept. Zool., 106 Taipei, Taiwan.

Distributed in the U.S. by: Frank D. Ferrari, National Museum of Natural History, Smithsonian Institution, Department of Invertebrate Zoology, MRC 534, Washington D.C. 20560, U.S.A.

Distributed in Brazil by: Rubens Lopes.

Chad Walter (U.S.A.) is acknowledged for substantial help in providing literature sources and helping to distribute the newsletter in the US.

Cartoons were provided by M. Pottek (Fachbereich Bio, Geo- und Umweltwissenschaften, Universität Oldenburg).

Cover: Labrum, anterior of female *Oncaea waldemari* (Fig. 25)(after Böttger-Schnack 2001, Bull. Nat. Hist. Mus. Lond. (Zool.) 67(1): 25-84).

---

Birthdays in 2001:

The MONOCULUS homepage is available from the www-service under:

**<http://www.hrzi.uni-oldenburg.de/monoculus>.**

We try to keep it up with the most recent information.

Deadline for the next issue of MONOCULUS 43: 31st March 2002.

## EDITORIAL

I just returned from the lab where my disappointed student stumbly admitted that all her work for the last week was in vain. A situation everyone of us may recall from own experience. Her working hypothesis about the use of a microcharacter as a new synapomorphy for a group of copepods could no longer be pursued because a literature survey and the subsequent reinspection of related taxa showed that this character obviously was plesiomorphic and far more wide-spread, in particular among stem-line representatives of the group under consideration, than expected.

The potential value of data which do not support a research hypothesis is often not appreciated. Negative results have been discussed, condemned or defended by authors and editors for decades. Among others it was Stephen Jay Gould who stated the following (in his essay: Cordelia's dilemma. *Nat. Hist.* 2/93: 10-18): "The importance of negative results – nature's apparent silence or nonacquiescence to our expectations – is also a major concern in science. Of course, scientists acknowledge the vitality of a negative outcome and often try to generate such a result actively – as in trying to disprove a colleagues favoured hypothesis. But the prevalence of negative results does pose an enormous, and largely unaddressed problem in the reporting of scientific information". Positive results may tell more interesting stories than negative results and are, therefore, easier to write about and more interesting to read – a privileging of the positive? According to the famous philosopher of science Karl R. Popper (his classical book: *The logic of scientific discovery*), no researcher could be happier than to find negative results. To him, one cannot prove theories conclusively, beyond all doubt – even with positive results. Positive instances themselves do not necessarily exclude the possibility of significant counter-instances. Nor do they address possible alternative explanations for the same results: theories may overlap with their predictions. Even positive results deserve skeptical analysis. Positive evidence may accumulate, but because no one ever has all the facts, one never knows whether an alternative theory may be correct. At best, a hypothesis can be falsified using results that clearly contradict it.

In practice, the art of falsification is more subtle. Researchers must consider methodological assumptions, statistical analyses, or details of observational or experimental design. On the other hand may negative results be important for several reasons: they may provide more balance for a subject area supported only by positive results so far. Also, they may indicate that a subject area is not as mature or clearly defined as previously suspected. In particular they may show that a particular line of research is not worth further efforts, or, that our current methodologies are inadequate for producing a definite result.

Transferring this to the problem of my student, I suggested her to be glad in a way, because: microcharacters are poorly investigated and data for comparison are less available as yet. High resolution techniques are needed for the study of a wide spectrum of taxa before these characters can be allocated as plesiomorphic or apomorphic for a particular taxon. Also, plesiomorphies are far more spread usually than apomorphies, but characterizing a phenology as plesiomorphic is actually helpful because it will exclude this from the pool of potential apomorphies in future searches.

The issue of negative results remains complex. It may reflect our scientific methodology and training, or our humanity with all its biases. Hopefully, the next "failing working-hypothesis" will remind us of the stimulating function of any type of scientific result: may it be positive, neutral or negative.

# 3th International Conference On Copepoda

National Taiwan Ocean University  
Keelung, Taiwan, July 21-26, 2002

## 3rd Announcement

Registration opens: October 2001  
Deadline of call for papers: 15 March 2002



World Association of Copepodologists  
National Taiwan Ocean University  
National Museum of Marine Biology & Aquarium

# The 8th International Conference on Copepoda July 21-26, 2002, Keelung, Taiwan

## PAPERS AND POSTERS

The Organizing Committee of the 8th ICOC cordially invites you to submit an abstract of your paper to be presented during the Conference. The papers will be accepted in two presentation formats: oral presentation in an appropriate symposium and poster display. For oral presentation, the author will have about 15 minutes to present the paper. For poster display, the presenter will describe the poster during a 1-hour period. A 90cm(W) x 140cm(H) bulletin board will be provided to all presenters. Interested individuals should submit their abstracts according to the following instructions. Abstracts that do not follow the instructions will not be reviewed.

### GENERAL INSTRUCTIONS

- ① The abstract must be submitted in English, typed or printed on the enclosed abstract form.
- ② Please use a printer which gives a clear and distinct impression and use a font that is easy to read. The preferred font is Times New Roman or Courier, in 12 points.
- ③ Within the main body of the abstract:
  - use single line spacing
  - indent 3 spaces on the first line of each paragraph
  - do not leave blank lines between paragraphs
  - please contact the Conference Secretariat if you have any problems relating to the guidelines for your abstract.
- ④ Submit the original Abstract Forms (Form A & Form B), one extra copy of Form B and a disc.
- ⑤ Use Form A to provide the presenter's name and mailing address. Only the presenting author will receive correspondence.
- ⑥ The author **must** follow the above instructions. Abstracts will be reproduced exactly as typed in the program.
- ⑦ If you are submitting an original research paper, Please adopt the following structured format for the abstract:
  - Background / Purpose
  - Methods
  - Results
  - Summary / Conclusions
- ⑧ Note that:
  - abbreviations in parentheses must follow the full wording the first time it appears in text
  - references and credits are not to be included in the abstract

### ABSTRACT REVIEW PROCESS

- ① Abstracts will be reviewed by the Scientific Committee. An abstract may be selected for oral or poster presentation.
- ② Schedule of presentation will be mailed by May 30, 2002 to the correspondence address given on Form A.
- ③ Abstracts which do not follow the proper format or are received after the deadline will not be reviewed.

### PRESENTATION INFORMATION

- ① Audio-visual  
Each session room will be provided with a slide projector, overhead projector, LCD projector, podium, and lavalier microphone. Please contact the Conference Secretariat in advance if you need special equipment which is not listed hereon.

## CONTENT OF ABSTRACT

- ① Type in the top section of the Abstract:
  - the title of the paper in CAPITAL letters. Make sure the title is brief and clearly indicates the nature of the paper.
  - the family name and initials of all authors. The family name should precede the initials (such as Smith J). Under-line the name of the presenting author.
  - the university/organization, city and country where the work was carried out. Do not state address, postal code, academic degrees or grant support.

## MAILING INSTRUCTIONS

- ① The Abstract forms should be received by the Conference Secretariat on or before March 15, 2002.
- ② Please mail the completed abstract forms as well as any requests for additional information or forms to:  
***Conference Secretariat  
8th ICOC, c/o TCM  
P.O.BOX 68-439, Taipei, Taiwan  
Tel: +886-2-2523-6017 Fax: +886-2-2537-7479***

## CHECK LIST BEFORE MAILING

- ☐ Registration Form
- ☐ Hotel Reservation & Tour Registration Form
- ☐ Abstract Form (For presenting author)
- ☐ Payments

For more and updated information, please visit our website:

**<http://8thicoc.ntou.edu.tw>**

**... STUDENT AWARDS ... STUDENT AWARDS ... STUDENT AWARDS ...**

Janet Reid has kindly prepared the following text on the student awards. I am circulating her covering letter and text to all Executive Council members for your information and any comments. The text will go onto the WAC website, the 8th ICOC website and into the next issue of Monoculus. Geoff Boxshall

Dear friends,  
You will remember that in Curibita we discussed proposals for two kinds of awards to be awarded by the WAC. The following DRAFT text for the announcements reflects that discussion and considerations by Geoff, John, and myself.

The number of awards, amounts of money involved, and procedures are all matters for discussion. John has assured us that the WAC can easily afford the amount (total \$1,200), and perhaps even a little more, while continuing to build capital.

For instance, for the travel funding awards we might make two large awards, or several smaller awards. Geoff has made the point that even small grants are useful, because students can then demonstrate to their departments that they have succeeded in getting partial funding.

Another consideration is that students tend to present in posters rather than orally. The judges might be given discretion to award either one, two, or three winners in the poster category.

It seems best to finish the discussion by the end of August. The first week in September, I would like to submit approved the text to Jiang for inclusion in the 8th ICOC website, to Rubens for the new WAC website, and to Hans for printing in the next issue of Monoculus.

Thanks to all of you for your opinions and ideas!  
Jan

**AWARDS TO SUPPORT YOUNG RESEARCHERS PARTICIPATING IN THE 8<sup>TH</sup> ICOC IN TAIWAN**

The WAC Executive Committee and the local organizers of the 8<sup>th</sup> International Conference on Copepoda to be held in Taiwan in July 2002 all wish to support and encourage our younger colleagues to pursue research on copepods. To this end, the Executive Committee has authorized the amount of US\$1,200 from WAC resources, and the Local Organizing Committee of the 8<sup>th</sup> ICOC has more than doubled this amount with \$2,800, to fund the travel grants and awards for best presentations described below. The local committee will also waive registration fees for all the recipients. We are extremely grateful to the Local Organizing Committee for their generosity.

These awards are for the 8th ICOC only. However, the Executive Committee intend

to repeat the awards at future Conferences, although the number and amounts may change depending on the financial condition of the WAC.

## 1. TRAVEL GRANTS TO THE 8TH ICOC

Six travel grants in the amount of US\$500 each will be available to assist postgraduate students and young professionals (under 35 years of age) with expenses to attend and present their research at the 8th International Conference on Copepoda. The registration fee of each person receiving a grant will be waived, bringing the total value to \$600.

Interested persons should send a 1-page description of the research project(s) to be presented, and a statement of financial need, to any member of the Executive Committee, or directly to the awards coordinator Jan Reid. This information must be received by 30 December 2001, by e-mail if possible.

The Executive Committee as a whole will evaluate the applications on the basis of the quality of the research to be presented, and demonstrated financial need. Persons who are attending their first ICOC, and candidates for the Doctorate or Master's degrees (in that order), will be given priority. Applicants will be notified by 1 March 2002 as to whether they will receive support. The grants will be paid directly to each person to be provided support (and the registration fee of \$100 will be waived) during registration at the 8th ICOC.

## 2. AWARDS FOR BEST STUDENT PRESENTATIONS AT THE 8TH ICOC

Ten awards of US\$100 each will be given for the best presentations of research (either oral presentation or poster) by undergraduate students or candidates for the Master's and Doctorate degrees who are attending the 8th ICOC. The registration fee will be reimbursed for each recipient, bringing the value of each award to \$200.

Students wishing to be considered for an award must contact Jan Reid by 30 May 2002. Each should send a copy of the abstract, and briefly describe the contributions of the research toward advancing knowledge of copepods. The student must be first author, and must make the presentation in person.

The presentations will be judged by a committee, on the basis of the quality and originality of research, and on the effectiveness of the presentation, including composition of the abstract and use of visual aids. The awards will be presented during the final conference dinner.

Awards Coordinator:  
Janet W. Reid, Ph.D.

Address until 31 December 2001:  
Research Associate  
Department of Systematic Biology - Invertebrate Zoology  
National Museum of Natural History  
Smithsonian Institution  
Washington D.C. 20560-0163 U.S.A.  
E-mail: reid.janet@nmnh.si.edu  
Fax: +1 202 357 3043



After 1 January 2002:  
Research Associate  
Division of Research  
Virginia Museum of Natural History  
Martinsville, Virginia 24112 U.S.A.  
Fax: +1 276 632-6487

### ... CURRENT RESEARCH ...

In my laboratory we have been rearing populations of the copepod *Acartia hudsonica* from Great Bay (southern New Jersey), Long Island Sound (Connecticut), Cape Cod (Massachusetts) and Casco Bay (Maine) under one set of environmental conditions (14 degrees celsius and 12L:12D) and under the same diet ( a mixture of several groups of phytoplankton at a total concentration of approximately 500 ug C/l). So far, we have reared some 18 generations of each population under these conditions, although every few generations we refresh each culture with new individuals from their location of origin.

Recently, we did a life history study for the New Jersey and the Maine populations under the conditions described above. We found that the generation times of the populations differed dramatically--10 days for the New Jersey population and 15 days for the Maine population. This was quite surprising to me since under nonlimiting food conditions, development time should be a function of temperature alone.

Given the long number of generations and the constancy and similarity of environmental conditions under we rear these populations, one must wonder whether generation time is under genetic control. I also wonder about the role of temperature as a selection force for minimum generation time since it is likely than on average the New Jersey population under its natural conditions would experience a temperature greater than 14 Celsius and the Maine population a temperature lower than 14 Celsius. Has anyone done studies of this kind? Can anyone suggest some literature on the norms of reactions of copepod population?

Thanks,

Hans G. Dam                      Phone: (860) 405-9098  
Dept. of Marine Sciences      Fax: (860) 405-9153  
University of Connecticut  
1084 Shennecosset Rd.      Web: [www.marinesciences.uconn.edu](http://www.marinesciences.uconn.edu)  
Groton, CT 06340-6097, USA    E-mail: [hans.dam@uconn.edu](mailto:hans.dam@uconn.edu)

Follow Galileo's commandment: contribute to science.

**... New PUBLICATION FORUM ...**

For all those who are taxonomists and want to help to disseminate taxonomic information:

New opportunity to PUBLISH TAXONOMY ONLINE!

To disseminate taxonomic information world-wide, especially for countries/institutes with poor libraries, publication via the internet is the ideal medium.

Taxonomic information is needed everywhere, and we hope that in future much of it will be available in any place of this planet wherever a PC is connected to the internet. To achieve this goal a new journal was founded that uses a normal peer-review system but publishes both electronically and on paper.

Organisms, Diversity and Evolution is published by the Gesellschaft für Biologische Systematik (GfBS) (Society for Systematic Biology) and the Urban & Fischer Verlag.

The Journal consists of a printed version and an electronic supplement. It is devoted to the understanding of organismal diversity and addresses an international audience. Purely taxonomic papers are published in the electronic supplement by GfBS. Extended abstracts of these publications will be contained in the printed Journal. The electronic supplement will be available free of charge on the internet independent of the printed Journal to everybody interested.

Examples: see <http://www.senckenberg.uni-frankfurt.de/odes/>

To fulfill the rules of taxonomic nomenclature (botany/ zoology) diagnoses appear in the printed version and CDs are deposited in major libraries.

Furthermore, a German institute responsible for the conservation of electronic data (Deutsche Bibliothek, Frankfurt) will take care of the electronic version to keep the format of stored information up to date.

For further information see: <http://www.urbanfischer.de/journals/ode/>

\*\*\*\*\*

Prof. Dr. J. W. Waagele  
Lehrstuhl fuer Spezielle Zoologie  
Ruhr-Universitaet Bochum  
Universitaetsstr. 150  
44780 Bochum

Tel.: 0234/32-24563

FAX: 0234/32-14114

email: [Wolfgang.Waagele@ruhr-uni-bochum.de](mailto:Wolfgang.Waagele@ruhr-uni-bochum.de)

<http://www.ruhr-uni-bochum.de/spezzoo/>

Association of Systematists (GfBS):

<http://www.gfbs-home.de>

NEW JOURNAL FOR SYSTEMATICS: Organisms, Diversity and Evolution

see <http://www.urbanfischer.de/journals/ode/>

## ... ATURE ... LITERATURE ... LITERATURE ... LITERATURE ... LITER ...

1999

Alonzo, F. & P. Mayzaud. 1999.

Spectrofluorometric quantification of neutral and polar lipids in zooplankton using Nile red. *Marine Chemistry* 67 (3-4): 289-301.

Mulyadi. 1999.

New records and taxonomic reexamination of the genus Labidocera (Copepoda: Calanoida), with notes on their species groups and distribution in Indonesian waters. *Treubia* 31 (3): 219-263.

Pleger, C.F., M.M. Nelson, B.D. Mooney & P.D. Nichols. 1999.

Wax esters versus triacylglycerols in myctophid fishes from the Southern Ocean. *Antarctic Science* 11 (4): 436-444.

2000

Berrada, D.F., R. Berrada, A. Benzekri & A. Fahde. 2000.

Heterogeneite horizontale des peuplements microphytoplanctoniques et zooplanctoniques en relation avec les parametres abiotiques dans la retenue El Kansera (Maroc). Horizontal heterogeneity of microphytoplanktonic and zooplanktonic communities in relation to abiotic parameters in the lake-reservoir El Kansera (Morocco). *Revue des Sciences de l'Eau* 13(3): 213-236. (French)

Bocher, P., Y. Cherel & K.A. Hobson. 2000.

Complete trophic segregation between South Georgian and common diving petrels during breeding at Iles Kerguelen. *Marine Ecology Progress Series* 208: 249-264.

Gulyas, P.. 2000.

Rotatoria and Crustacea plankton communities of the feed-water streams of the Lake Balaton.

*Miscellanea Zoologica Hungarica* 13:59-75.

Jimenez-Badillo, M.L. & M.R. Nepita-Villanueva. 2000.

Espectro trofico de la tilapia Oreochromis aureus (Perciformes: Cichlidae) en la presa Infiernillo, Michoacan-Guerrero, Mexico.

Trophic range of Oreochromis aureus (Perciformes: Cichlidae) in Infiernillo dam, Michoacan-Guerrero, Mexico. *Revista de Biologia Tropical* 48 (2-3): 487-494. (Spanish)

Kay, B.H., P.A. Ryan, B.M. Russell, J.S. Holt, S.A. Lyons & P.N. Foley. 2000.

The importance of subterranean mosquito habitat to arbovirus vector control strategies in north Queensland, Australia.

*Journal of Medical Entomology* 37 (6): 846-853.

Keister, J.E., E.D. Houde & D.L. Breitburg. 2000.

Effects of bottom-layer hypoxia on abundances and depth distributions of organisms in Patuxent River, Chesapeake Bay.

*Marine Ecology Progress Series* 205: 43-59.

Kim, G.E. & D.R. DeVries. 2000.

Effects of a selectively reduced gizzard shad population on trophic interactions and age-0 fishes in Walker County Lake, Alabama. *North American Journal of Fisheries Management* 20 (4):

860-872.

Kiss, A.. 2000.

Limnological investigations of small water bodies in the Pilis Biosphere Reserve, Hungary: Two forest ponds: Tolaki-lap and Csikovari-to. *Opuscula Zoologica Budapest* 32:103-112.

Mariottini, G.L., R. Leardi & A. Carli. 2000.

Application of the principal component analysis (PCA) to the ecological study of an artificial environment: The tunny-fishing net of Camogli (Ligurian Sea). *Journal of Biological Research Naples* 76 (3-4): 13-20.

Moku, M., K. Kawaguchi, H. Watanabe & A. Ohno. 2000.

Feeding habits of three dominant myctophid fishes, Diaphus theta, Stenobranchius leucopsarus and S. nannochir, in the subarctic and transitional waters of the western North Pacific. *Marine Ecology Progress Series* 207: 129-140.

Pane, L., L. De Nuccio, C. Pruzzo & A. Carli. 2000.

Adhesion of bacteria and diatoms to the exoskeleton of the harpacticoid copepod Tigriopus fulvus in culture: Electron and epifluorescent microscope study. *Journal of Biological Research Naples* 76(5-6): 37-43.

Silva-Carlos, A. & R. Campos-Verduzco. 2000.

Arctodiaptomus dorsalis (Copepoda: Calanoida) en los Estados de Morelos y Tabasco, Mexico. *Revista de Biología Tropical* 48 (2-3): 722. (Spanish)

Razouls, S., C. Razouls & F. de Bovee. 2000.

Biodiversity and biogeography of Antarctic copepods. *Antarctic Science* 12 (3): 343-362.

Valles-Rios, M.E., G. Ruiz-Campos & L. Galaviz-Silva. 2000.

Prevalencia e intensidad parasitaria en Mugil cephalus (Pisces: Mugilidae), del Rio Colorado, Baja California, Mexico. *Revista de Biología Tropical* 48 (2-3): 495-501. (Spanish)

Valtierra-Vega, M.T. & J.J. Schmitter-Soto. 2000.

Habitos alimentarios de las mojaras (Perciformes: Cichlidae) de la laguna Caobas, Quintana Roo, Mexico. *Revista de Biología Tropical* 48 (2-3): 503-508. (Spanish)

Vinni, M., J. Horppila, M. Olin, J. Ruuhijarvi & K. Nyberg. 2000.

The food, growth and abundance of five co-existing cyprinids in lake basins of different morphometry and water quality. *Aquatic Ecology* 34 (4): 421-431.

## 2001

Abaunza, P., N.L. Arroyo & I. Preciado. 2001.

A contribution to the knowledge on the morphometry and the anatomical characters of Pennella balaenopteræ (Copepoda, Siphonostomatoida, Pennellidae), with special reference to the buccal complex. *Crustaceana Leiden* 74 (2): 193-210.

Alvarez, F & I. Winfield. 2001.

New records of Dinemoura latifolia and Pandarus smithii (Copepoda, Siphonostomatoida, Pandaridae) parasitizing the shark Isurus oxyrinchus in the Gulf of Mexico. *Crustaceana Leiden* 74

- (5): 501-503.
- Andreassen, P.M.R., M.B. Martinussen, N.A. Hvidsten & S.O. Stefansson. 2001.  
Feeding and prey-selection of wild Atlantic salmon post-smolts.  
*Journal of Fish Biology* 58(6):1667-1679.
- Ara, K.. 2001.  
Daily egg production rate of the planktonic calanoid copepod Acartia lilljeborgi Giesbrecht in the Cananeia Lagoon estuarine system, Sao Paulo, Brazil. *Hydrobiologia* 445: 205-215.
- Araujo, H.M.P. & G.A. Boxshall. 2001.  
A new species of Acusicola Cressey (Copepoda: Ergasilidae) from northeastern Brazil. *Systematic Parasitology* 49(2): 149-157.
- Barbiero, R.P., R.E. Little & M.L. Tuchman. 2001.  
Results from the U.S. EPA's biological open water surveillance program of the Laurentian Great Lakes: III. Crustacean zooplankton. *Journal of Great Lakes Research* 27(2): 167-184.
- Barka, S., J.F. Pavillon & A.C. Amiard. 2001.  
Influence of different essential and non-essential metals on MTLp levels in the copepod Tigriopus brevicornis. Comparative Biochemistry and Physiology Part C Toxicology and Pharmacology 128C(4): 479-493.
- Berger, I. & G. Maier. 2001.  
The mating and reproductive biology of the freshwater planktonic calanoid copepod Eudiaptomus gracilis. *Freshwater Biology* 46(6): 787-794.
- Borga, K., G.W. Gabrielsen & J.U. Skaare. 2001.  
Biomagnification of organochlorines along a Barents Sea food chain. *Environmental Pollution* 113(2):187-198.
- Bronnvall, A.M. & J.I.R. Larsson. 2001.  
Ultrastructure and light microscopic cytology of Agglomerata lacrima n. sp. (Microspora, Duboscoiidae), a microsporidian parasite of Acanthocyclops vernalis (Copepoda, Cyclopidae). *European Journal of Protistology* 37(1): 89-101.
- Burrells, C., P.D. Williams & P.F. Forno. 2001.  
Dietary nucleotides: A novel supplement in fish feeds: 1. Effects on resistance to disease in salmonids. *Aquaculture* 199(1-2): 159-169.
- Buskey, E.J., H.B. Liu, C. Collumb & J.G.F. Bersano. 2001.  
The decline and recovery of a persistent Texas brown tide algal bloom in the Laguna Madre (Texas, USA). *Estuaries* 24(3): 337-346.
- Carrasson, M. & J. Matallanas. 2001.  
Feeding ecology of the Mediterranean spiderfish, Bathypterois mediterraneus (Pisces: Chlorophthalmidae), on the western Mediterranean slope. *Fishery Bulletin Seattle* 99(2): 266-274.
- Cha, S.S. & K.J. Park. 2001.  
Feeding selectivity of postlarvae of white croaker (Argyrosomus argentatus) in Kwangyang Bay, Korea. *Journal of the Korean Fisheries Society* 34(1): 27-31. (Korean)
- Collins, K.P. & D.K. Shiozawa. 2001.  
Exclusion experiments with backwater invertebrate communities of the Green River, Utah. *Western North American Naturalist*

- 61(2):149-158.
- Cottenie, K., N. Nuytten, E. Michels & L. De Meester. 2001.  
Zooplankton community structure and environmental conditions in a set of interconnected ponds. *Hydrobiologia* 442: 339-350.
- Couch, K.M., M. Downes & C.W. Burns. 2001.  
Morphological differences between subitaneous and diapause eggs of Boeckella triarticulata (Copepoda: Calanoida). *Freshwater Biology* 46(7): 925-933.
- de Jesus-Navarrete, A. & J.J. Oliva-Rivera. 2001.  
Gastropod larvae and zooplankton in reef-related areas of the western Caribbean sea. *Gulf and Caribbean Research* 13:51-58.
- DellaGreca, M., A. Fiorentino, M. Isidori & A. Zarrelli. 2001.  
Toxicity evaluation of natural and synthetic phenanthrenes in aquatic systems. *Environmental Toxicology and Chemistry* 20(8): 1824-1830.
- Deudero, S. & N.B. Morales. 2001.  
Prey selectivity in planktivorous juvenile fishes associated with floating objects in the western Mediterranean. *Aquaculture Research* 32(6): 481-490.
- Dippner, J.W., J. Hanninen, H. Kuosa & I. Vuorinen. 2001.  
The influence of climate variability on zooplankton abundance in the Northern Baltic Archipelago Sea (SW Finland). *ICES Journal of Marine Science* 58(3): 569-578.
- Dodson, S.I. & R.A. Lillie. 2001.  
Zooplankton communities of restored depressional wetlands in Wisconsin, USA. *Wetlands* 21 (2): 292-300.
- Eashwar, M., T. Nallathambi, K. Kuberaraj & G. Govindarajan. 2001.  
Noctiluca blooms in Port Blair Bay, Andamans. *Current Science Bangalore* 81 (2): 203-206.
- Edmands, S.. 2001.  
Phylogeography of the intertidal copepod Tigriopus californicus reveals substantially reduced population differentiation at northern latitudes. *Molecular Ecology* 10 (7): 1743-1750.
- El-Mansy, A.. 2001.  
First record of actinosporean stages of fish myxosporean parasites (Myxozoa: Myxosporidia) in Egypt. *Journal of the Egyptian Society of Parasitology* 31 (2): 449-465.
- El-Rashidy, H.H. & G.A. Boxshall. 2001.  
Biogeography and phylogeny of Dermeogasilus Ho & Do, 1982 (Copepoda: Ergasilidae), with descriptions of three new species. *Systematic Parasitology* 49 (2): 89-112.
- Elwers, K., P. Arbizu-Martinez & F. Fiers. 2001.  
The genus Pseudocyclopina Lang in Antarctic waters: Redescription of the type-species, P. belgicae (Giesbrecht, 1902) and the description of four new species: (Copepoda: Cyclopinae). *Ophelia* 54 (2): 143-165.
- Ernst, W., P. Jackman, K. Doe, F. Page, G. Julien, K. Mackay & T. Sutherland. 2001.  
Dispersion and toxicity to non-target aquatic organisms of pesticides used to treat sea lice on salmon in net pen enclosures. *Marine Pollution Bulletin* 42 (6): 433-444.
- Fischer, J.M., T.M. Frost & A.R. Ives. 2001.

- Compensatory dynamics in zooplankton community responses to acidification: Measurement and mechanisms. *Ecological Applications* 11 (4): 1060-1072.
- Froneman, P.W.. 2001.  
Seasonal changes in zooplankton biomass and grazing in a temperate estuary, South Africa. *Estuarine Coastal and Shelf Science* 52 (5): 543-553.
- Galli, P., G. Crosa, S. Bertoglio, L. Mariniello, M. Ortis & S. D'Amelio. 2001.  
Populations of Lamproglana pulchella von Nordmann 1832 (Copepoda: Eudactylinidae) in cyprinid fish in rivers with different pollution levels. *Journal of Applied Ichthyology* 17 (2): 93-96.
- Gilbert, J.J. & S.E. Hampton. 2001.  
Diel vertical migrations of zooplankton in a shallow, fishless pond: A possible avoidance-response cascade induced by notonectids. *Freshwater Biology* 46 (5): 611-621.
- Gonzalez, A.P., G.M. Wright, S.C. Johnson & J.F. Burka. 2001.  
Frontal filament morphogenesis in the salmon louse Lepeophtheirus salmonis. *Journal of Parasitology* 87 (3): 561-574.
- Green, J.. 2001.  
Variability and instability of planktonic rotifer associations in Lesotho, southern Africa. *Hydrobiologia* 446-447: 187-194.
- Grey, J., R.I. Jones & D. Sleep. 2001.  
Seasonal changes in the importance of the source of organic matter to the diet of zooplankton in Loch Ness, as indicated by stable isotope analysis. *Limnology and Oceanography* 46 (3): 505-513.
- Grigorovich, I.A., I.V. Dovgal, H.J. MacIsaac & V.I. Monchenko. 2001.  
*Acineta nitocrae*: A new suctorian epizooic on nonindigenous harpacticoid copepods, *Nitocra hibernica* and *N. incerta*, in the Laurentian Great Lakes. *Archiv fuer Hydrobiologie* 152 (1): 161-176.
- Guerin, J.P., M. Kirchner & F. Cubizolles. 2001.  
Effects of Oxyrrhis marina (Dinoflagellata), bacteria and vitamin D2 on population dynamics of Tisbe holothuriae (Copepoda). *Journal of Experimental Marine Biology and Ecology* 261 (1): 1-16.
- Gutierrez-Aguirre, M.A. & E. Suárez-Morales. 2001.  
Diversity and distribution of freshwater copepods (Crustacea) in southeastern Mexico. *Biodiversity and Conservation* 10(5):659-672.
- Gutierrez-Aguirre, M.A. & E. Suárez-Morales. 2001.  
Distribution and taxonomy of the tropical American Mesocyclops G.O. Sars, 1914 (Copepoda, Cyclopoida). *Crustaceana Leiden* 74 (5): 477-487.
- Hagen, W., G. Kattner, A. Terbrueggen & E.S. Van Vleet. 2001.  
Lipid metabolism of the Antarctic krill Euphausia superba and its ecological implications. *Marine Biology Berlin* 139(1): 95-104.
- Halliday, N.C., S.H. Coombs & C. Smith. 2001.  
A comparison of LHPR and OPC data from vertical distribution sampling of zooplankton in a Norwegian fjord. *Sarsia* 86 (2): 87-99.

Harding, J.M.. 2001.

Temporal variation and patchiness of zooplankton around a restored oyster reef. *Estuaries* 24 (3): 453-466.

Ho, J.S. & I.H. Kim. 2001.

New species of Hatschekia Poche, 1902 (Copepoda: Hatschekiidae) parasitic on marine fishes of Kuwait. *Systematic Parasitology* 49 (1): 73-79.

Hoffman, J.C., M.E. Smith & J.T. Lehman. 2001.

Perch or plankton: Top-down control of Daphnia by yellow perch (Perca flavescens) or Bythotrephes cederstroemi in an inland lake? *Freshwater Biology* 46 (6): 759-775.

Hook, S.E. & N.S. Fisher. 2001.

Reproductive toxicity of metals in calanoid copepods. *Marine Biology Berlin* 138 (6): 1131-1140.

Horvath, T.G., R.K. Whitman & L.L. Last. 2001.

Establishment of two invasive crustaceans (Copepoda: Harpacticoida) in the nearshore sands of Lake Michigan. *Canadian Journal of Fisheries and Aquatic Sciences* 58 (7): 1261-1264.

Hrabik, T.R., M.P. Carey & M.S. Webster. 2001.

Interactions between young-of-the-year exotic rainbow smelt and native yellow perch in a northern temperate lake. *Transactions of the American Fisheries Society* 130 (4): 568-582.

Ivanenko, V.M., F.D. Ferrari & A.V. Smurov. 2001.

Nauplii and copepodids of Scottomyzon gibberum (Copepoda: Siphonostomatoida: Scottomyzontidae, a new family), a symbiont of Asterias rubens (Asteroidea). *Proceedings of the Biological Society of Washington* 114(1):237-261.

Jeppesen, E., K. Christoffersen, F. Landkildehus, T. Lauridsen, S.L. Amsinck, 2001.

Fish and crustaceans in northeast Greenland lakes with special emphasis on interactions between Arctic charr (Salvelinus alpinus), Lepidurus arcticus and benthic chydorids. *Hydrobiologia* 442: 329-337.

Johnson, K.A. & J.A. Heindel. 2001.

Efficacy of manual removal and ivermectin gavage for control of Salmincola californiensis (Wilson) infestation of chinook salmon, Oncorhynchus tshawytscha (Walbaum), captive broodstocks. *Journal of Fish Diseases* 24 (4): 197-203.

Kaczanowski, S. & A. Jerzmanowski. 2001.

Evolutionary correlation between linker histones and microtubular structures. *Journal of Molecular Evolution* 53 (1): 19-30.

Kane, K. & C.M. Pomory. 2001.

The effects of UV-B radiation on the reproduction and mortality of Tigriopus californicus (Copepoda: Harpacticoida). *Hydrobiologia* 444: 213-215.

Knapp, R.A., J.A. Garton & O. Sarnelle. 2001.

The use of egg shells to infer the historical presence of copepods in alpine lakes. *Journal of Paleolimnology* 25 (4): 539-543.

Kornilovs, G., L. Sidrevics & J.W. Dippner. 2001.

Fish and zooplankton interaction in the Central Baltic Sea. *ICES Journal of Marine Science* 58 (3): 579-588.



- Kouassi, E., M. Pagano, L. Saint Jean, R. Arfi & M. Bouvy. 2001.  
Vertical migrations and feeding rhythms of Acartia clausi and Pseudodiaptomus hessei (Copepoda: Calanoida) in a tropical lagoon (Ebrie, Cote d'Ivoire). *Estuarine Coastal and Shelf Science* 52(6):715-728.
- Laabir, M., I. Buttino, A. Ianora, G. Kattner, S.A. Poulet, G. Romano, et al.. 2001.  
Effect of specific dinoflagellate and diatom diets on gamete ultrastructure and fatty acid profiles of the copepod Temora stylifera. (et al. = Y. Carotenuto & A. Miralto) *Marine Biology* Berlin 138 (6): 1241-1250.
- Lu, M. & P. Xie. 2001.  
Impacts of filter-feeding fishes on the long-term changes of crustacean zooplankton in a eutrophic subtropical Chinese lake. *Journal of Freshwater Ecology* 16 (2): 219-228.
- Madsen, S.D., T.G. Nielsen & B.W. Hansen. 2001.  
Annual population development and production by Calanus finmarchicus, C. glacialis and C. hyperboreus in Disko Bay, western Greenland. *Marine Biology* Berlin 139 (1): 75-93.
- Muscha, M.J., K.D. Zimmer, M.G. Butler & M.A. Hanson. 2001.  
A comparison of horizontally and vertically deployed aquatic invertebrate activity traps. *Wetlands* 21 (2): 301-307.
- Nagasawa, K., S. Ohtsuka, S. Saeki, S. Ohtani, G.H. Zhu & A. Shiomoto. 2001.  
Abundance and in-situ feeding habits of Neocalanus cristatus (Copepoda: Calanoida) in the central and western North Pacific Ocean in summer and winter. *Bulletin of the National Research Institute of Far Seas Fisheries* 38: 37-52.
- Nakata, K., Y. Matsukawa, T. Shimoda & T. Ichikawa. 2001.  
Biomass, productivity, and size composition of copepods in the epipelagic zone in the subtropical waters off the Okinawa Main Island, during spring 1996. *Bulletin of the National Research Institute of Far Seas Fisheries* 16: 75-92.
- Napp, J.M. & G.L. Hunt Jr.. 2001.  
Anomalous conditions in the south-eastern Bering Sea 1997: Linkages among climate, weather, ocean, and biology. *Fisheries Oceanography* 10 (1): 61-68.
- Oliva, M.E.. 2001.  
Metazoan parasites of Macruronus magellanicus from southern Chile as biological tags. *Journal of Fish Biology* 58 (6): 1617-1622.
- Packard, A.T.. 2001.  
Clearance rates and prey selectivity of the predaceous cladoceran Polyphemus pediculus. *Hydrobiologia* 442: 177-184.
- Pasternak, A., E. Arashkevich, K. Tande & T. Falkenhuag. 2001.  
Seasonal changes in feeding, gonad development and lipid stores in Calanus finmarchicus and C. hyperboreus from Malangen, northern Norway. *Marine Biology* Berlin 138 (6): 1141-1152.
- Pine, W.E. III & M.S. Allen. 2001.  
Differential growth and survival of weekly age-0 black crappie cohorts in a Florida lake. *Transactions of the American Fisheries Society* 130 (1): 80-91.
- Pinot, J.M. & J. Jansa. 2001.  
Time variability of acoustic backscatter from zooplankton in the

- Ibiza Channel (western Mediterranean).  
Deep Sea Research Part I Oceanographic Research Papers 48 (7):  
1651-1670.
- Pinto, C.S.C., L.P. Souza-Santos & P.J.P. Santos. 2001.  
Development and population dynamics of Tisbe biminensis  
(Copepoda: Harpacticoida) reared on different diets. Aquaculture  
198 (3-4): 253-267.
- Pitchford, J.W. & J. Brindley. 2001.  
Prey patchiness, predator survival and fish recruitment.  
Bulletin of Mathematical Biology 63 (3): 527-546.
- Platell, M.E. & I.C. Potter. 2001.  
Partitioning of food resources amongst 18 abundant benthic  
carnivorous fish species in marine waters on the lower west coast  
of Australia. Journal of Experimental Marine Biology and Ecology  
261(1): 31-54.
- Rasch, E.M. & G.A. Wyngaard. 2001.  
Evidence for endoreduplication: Germ cell DNA levels prior to  
chromatin diminution in Mesocyclops edax. Journal of  
Histochemistry and Cytochemistry 49 (6): 795-796.
- Richardson, A.J., H.M. Verhey, V. Herbert, C. Rogers & L.M. Arendse. 2001.  
Egg production, somatic growth and productivity of copepods in  
the Benguela Current system and Angola-Benguela Front. South  
African Journal of Science 97 (5-6): 251-257.
- Rocha-Olivares, A., J.W. Fleeger & D.W. Foltz. 2001.  
Decoupling of molecular and morphological evolution in deep  
lineages of a meiobenthic harpacticoid copepod. Molecular  
Biology and Evolution 18 (6): 1088-1102.
- Rosenstock, B. & M. Simon. 2001.  
Sources and sinks of dissolved free amino acids and protein in a  
large and deep mesotrophic lake. Limnology and Oceanography 46  
(3): 644-654.
- Rossi, L.M.. 2001.  
Ontogenetic diet shifts in a neotropical catfish, Sorubim lima  
(Schneider) from the River Parana System. Fisheries Management  
and Ecology 8 (2): 141-152.
- Russell, B.M., J. Wang, Y. Williams, M.N. Hearnden & B.H. Kay. 2001.  
Laboratory evaluation of two native fishes from tropical North  
Queensland as biological control agents of subterranean Aedes  
aegypti. Journal of the American Mosquito Control Association  
17 (2): 124-126.
- Sabatini, M.E. & G.L. Alvarez-Colombo. 2001.  
Seasonal pattern of zooplankton biomass in the Argentinian shelf  
off Southern Patagonia (45degree-55degreesS). Scientia Marina 65  
(1): 21-31.
- Sakami, T., K. Takayanagi & M. Shiraishi. 2001.  
Acute toxicity of inipol EAP22, an oil spill bioremediation  
fertilizer, to four marine species. Nippon Suisan Gakkaishi 67  
(2): 302-303. (Japanese)
- Saksvik, M., A. Nylund, F. Nilsen & K. Hodneland. 2001.  
Experimental infection of Atlantic salmon (Salmo salar) with  
marine Eubothrium sp. (Cestoda: Pseudophyllidea): Observations on

the life cycle, aspects of development and growth of the parasite. *Folia Parasitologica Ceske Budejovice* 48 (2): 118-126.

Samchishina, L.V.. 2001.

Copepoda Calanoida of the Shatski Lakes (Ukraine). *Vestnik Zoologii* 35 (1): 47-51. (Russian)

Sanoamuang, L.O. & W. Yindee. 2001.

A new species of *Phyllodiaptomus* (Copepoda, Diaptomidae) from northeast Thailand. *Crustaceana Leiden* 74 (5): 435-448.

Schram, T.A. & P.A. Heuch. 2001.

The egg string attachment mechanism of selected pennellid copepods. *Journal of the Marine Biological Association of the United Kingdom* 81 (1): 23-32.

Sell, A.F., D. van Keuren & L.P. Madin. 2001.

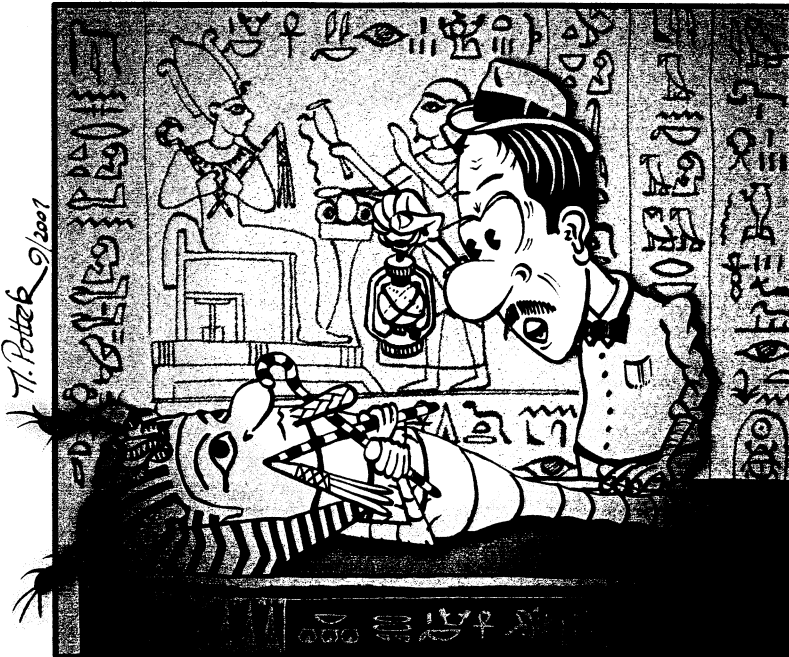
Predation by omnivorous copepods on early developmental stages of *Calanus finmarchicus* and *Pseudocalanus* spp. *Limnology and Oceanography* 46 (4): 953-959.

Seo, I.S. & K.S. Lee. 2001.

*Haplostoma kimi*, a new species and a redescription of *Haplostomella halocynthiae* (Fukui) from Korea (Copepoda: Cyclopoida: Ascidicolidae). *Proceedings of the Biological Society of Washington* 114 (1): 229-236.

Shao, Z.J., P. Xie & Y. Zhuge. 2001.

Long-term changes of planktonic rotifers in a subtropical Chinese lake dominated by filter-feeding fishes. *Freshwater Biology* 46 (7): 973-986.



- Silberschneider, V. & D.J. Booth. 2001.  
Resource use by Enneapterygius rufopileus and other rockpool fishes. *Environmental Biology of Fishes* 61 (2): 195-204.
- Stepanova, L.A.. 2001.  
Arctodiaptomus (Rhabdodiaptomus) winbergi is a new species of Crustacea (Copepoda, Calanoida, Diaptomidae) from East Siberia. *Zoologicheskii Zhurnal* 80 (1): 111-114. (Russian)
- Stockwell, D.A., T.E. Whitledge, S.I. Zeeman, K.O. Coyle, J.M. Napp, et al.. 2001.  
Anomalous conditions in the south-eastern Bering Sea, 1997: Nutrients, phytoplankton and zooplankton. (et al. = M. Jeffrey, R.D. Brodeur, A.I. Pinchuk & G.L. Hunt Jr.) *Fisheries Oceanography* 10 (1): 99-116.
- Suárez-Morales, E.. 2001.  
Redescription and first record of Cymbasoma boxshalli and Monstrilla inserta (Copepoda: Monstrilloida) from Curacao, eastern Caribbean Sea *Cahiers de Biologie Marine* 42(3):243-254.
- Suárez-Morales, E. & C. Alvarez-Silva. 2001.  
Cymbasoma tumorifrons (Copepoda: Monstrilloida): An expanded description based on a new collection from the eastern tropical Pacific. *Pacific Science* 55 (2): 183-189.
- Suárez-Morales, E. & C. Dias. 2001.  
A new species of Monstrilla (Crustacea: Copepoda: Monstrilloida) from Brazil with notes on M. brevicornis Isaac. *Proceedings of the Biological Society of Washington* 114 (1): 219-228.
- Sun, G., L.X. Sheng & M.Q. Li. 2001.  
Community characteristics of benthonic animals and its relationship to environmental factors in the Nanhu Lake, Changchun. *Yingyong Shengtai Xuebao* 12 (2): 319-320. (Chinese)
- Takatsu, T., Y. Yoshida, K. Kooka, K. Sugimoto & T. Takahashi. 2001.  
Spatial and temporal distribution of Pacific cod Gadus macrocephalus juveniles in Mutsu Bay, Japan. *Bulletin of the Japanese Society of Fisheries Oceanography* 65 (1): 6-14.
- Tavares-Dias, M., R. Moraes-Flavio, M.L. Martins & S.N. Kronka. 2001.  
Fauna parasitaria de peixes oriundos de "pesque-pagues" do município de Franca, Sao Paulo, Brasil. II. Metazoarios. *Revista Brasileira de Zoologia* 18 (Suppl. 1): 81-95 (Portuguese)
- Torres-Estrada, J.L., M.H. Rodriguez, L. Cruz-Lopez & J.I. Arredondo-Jimenez. 2001.  
Selective oviposition by Aedes aegypti (Diptera: Culicidae) in response to Mesocyclops longisetus (Copepoda: Cyclopoidea) under laboratory and field conditions. *Journal of Medical Entomology* 38 (2): 188-192.
- Touratier, F., J.G. Field & C.L. Moloney. 2001.  
A stoichiometric model relating growth substrate quality (C:N:P ratios) to N:P ratios in the products of heterotrophic release and excretion. *Ecological Modelling* 139 (2-3): 265-291.
- Tuyor, J.B. & M.O. Baay. 2001.  
Contribution to the knowledge of the freshwater Copepoda of the Philippines. *Asia Life Sciences* 10 (1): 35-43.
- Urban-Rich, J.. 2001.  
Seston effects on faecal pellet carbon concentrations from a mixed community of copepods in Balsfjord, Norway, and the

- Antarctic Polar Front. ICES Journal of Marine Science 58 (3): 700-710.
- Van Hove, P., K.M. Swadling, J.A.E. Gibson, C. Belzile & F. Vincent-Warwick. 2001. Farthest north lake and fjord populations of calanoid copepods Limnocalanus macrurus and Drepanopus bungei in the Canadian high Arctic. Polar Biology 24 (5): 303-307.
- Verheye, H.M., C. Rogers, B. Maritz, V. Hashoongo, L.M. Arendse, et al.. 2001. Variability of zooplankton in the region of the Angola-Benguela Front during winter 1999. (et al. = D. Gianakouras, C.J. Giddey, V. Herbert, S. Jones, A.D. Kemp & C. Ruby) South African Journal of Science 97 (5-6): 257-258.
- Vessels, N. & J.D. Jack. 2001. Effects of fish on zooplankton community structure in Chaney Lake, a temporary karst wetland in Warren county, Kentucky. Journal of the Kentucky Academy of Science 62 (1): 52-59.
- Viherluoto, M. & M. Viitasalo. 2001. Effect of light on the feeding rates of pelagic and littoral mysid shrimps: A trade-off between feeding success and predation avoidance. Journal of Experimental Marine Biology and Ecology 261 (2): 237-244.
- Villar-Argaiz, M., J.M. Medina-Sanchez, L. Cruz-Pizarro & P. Carrillo. 2001. Inter- and intra-annual variability in the phytoplankton community of a high mountain lake: The influence of external (atmospheric) and internal (recycled) sources of phosphorus. Freshwater Biology 46 (8): 1017-1034.
- Vincent, D. & H.J. Hartmann. 2001. Contribution of ciliated microprotozoans and dinoflagellates to the diet of three copepod species in the Bay of Biscay. Hydrobiologia 443: 193-204.
- Voronina, N.M., E.G. Kolosova & I.A. Melnikov. 2001. Zooplankton life under the perennial Antarctic Sea ice. Polar Biology 24(6): 401-407.
- Xie, S., Y. Cui & Z. Li. 2001. Dietary-morphological relationships of fishes in Liangzi Lake, China. Journal of Fish Biology 58(6): 1714-1729.
- Yang, T.B., S.Y. Miao, X.H. Liao & Z.J. Wang. 2001. Studies on the dynamic mechanism of cavity helminths in Gymnocypris przewalskii przewalskii in the Qinghai Lake I: Ecological approach and their relationship to feeding of host. Acta Hydrobiologica Sinica 25 (3): 268-273. (Chinese)
- Yeates, G.W. & P.A. Williams. 2001. Influence of three invasive weeds and site factors on soil microfauna in New Zealand. Pedobiologia 45 (4): 367-383.
- Yoshida, T., M. Kagami, T.B. Gurung & J. Urabe. 2001. Seasonal succession of zooplankton in the north basin of Lake Biwa. Aquatic Ecology 35 (1): 19-29.
- Zimmermann, M., R.C. Harrison & A.F. Jones. 2001. Differential parasitism by Naobranchia occidentalis (Copepoda: Naobranchiidae) and Nectobranchia indivisa (Copepoda: Lernaepodidae) on northern rock sole (Lepidopsetta polyxystra Orr and Matarese, 2000) and southern rock sole (L. bilineata

Ayres, 1855) in Alaskan waters. Fishery Bulletin Seattle 99  
(2): 371-380.

### CHANGE OF ADDRESS

ARCOS, F., Ph.D.  
Escuela Superior Politecnica del Litoral  
Facultad de Ingenieria Maritima y Ciencias del Mar  
P.O. Box 09-01-5863  
Guayaquil - ECUADOR

ARLT, G.  
Universität Rostock  
Institut für Aquatische Ökologie  
Einsteinstr.3  
18059 Rostock  
Phone: + 4986053  
Fax: + 4986052

FERNANDO ARCOS, Ph.D.  
Escuela Superior Politecnica del Litoral  
Facultad de Ingenieria Maritima y Ciencias del Mar  
P.O. Box 09-01-5863  
Guayaquil – ECUADOR

KARAYTUG, S.  
Balikesir Univeritesi  
Fen-Edebiyat Fakultesi  
Biyoloji Bolumu, 10100  
Balikesir/ Turkey  
Phone: +90 266 2493358 / 199  
Email: [suphank@balikesir.edu.tr](mailto:suphank@balikesir.edu.tr)

NAGASAWA, K.  
Nikko Branch  
National Research Institute of Aquaculture  
Chugushi, Nikko, Tochigi 321-1661  
Japan  
Phone: + 81 288 55 00 55  
Fax: + 81 288 55 00 64  
Email : [ornatus@fra.affrc.go.jp](mailto:ornatus@fra.affrc.go.jp)

REID J.W., Ph.D.  
Research Associate  
Division of Research  
Virginia Museum of Natural History  
Martinsville, Virginia 24112 U.S.A.  
Fax: +1 276 632-6487



**The World Association of Copepodologists (W.A.C.)**  
**Application for Membership**

I, \_\_\_\_\_, hereby apply for membership in the  
Last Name (Family name) First

World Association of Copepodologists (WAC), recommended by the following two Active or Founder Members:

1. \_\_\_\_\_  
Last Name (Family Name) First (Signature)

2. \_\_\_\_\_  
Last Name (Family Name) First (Signature)

Mailing address: \_\_\_\_\_  
\_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail address(es): \_\_\_\_\_

Date of Birth: \_\_\_\_\_ Highest Academic Degree: \_\_\_\_\_

Field(s) of interest: \_\_\_\_\_

I authorize my name, address, and data regarding my research interests to be entered in the database maintained by the WAC and made available to interested colleagues.

Signature and Date: \_\_\_\_\_

**Nominations:** Mail this form to:

Dr. Eduardo Suárez-Morales  
General Secretary, WAC  
ECOSUR-Chetumal. A.P. 424.  
Chetumal, Q.Roo 77000. MEXICO

Upon receipt of this form, payment of one or more year's dues, and approval by the Executive Council, each applicant will be considered a Candidate Member and will begin receiving the *MONOCULUS*-Newsletter. A list of Candidate Members will be presented to the general membership at the next regular business meeting (at the Seventh International Conference on Copepoda). Candidates approved by the general membership become Active Members.

**Dues:** Dues (US \$20.00 per annum) payable by Founder, Active and Candidate Members may be paid up to two years in advance. Dues may be paid in person at WAC conferences, or by mail to :

Dr. John Fornshell  
Treasurer, WAC  
Thomas Jefferson High School for Science &  
Technology. 6560 Braddock Rd., VA 22312  
Alexandria, USA.

Europeans may send their personal Euro-Cheques in US dollars. Americans and Canadians should send their personal checks payable to WAC, while all others should use international money orders or bank drafts (cash) in US \$ and make these payable to an account to be set in the United States.

*Updated March, 1997*



**The 8th International Conference on Copepoda  
July 21-26, 2002, Keelung, Taiwan**

Abstract No.
--------------

*Abstract deadline: March 15, 2002*

**FORM A – Information on the Presenting Author**

(Please Type or Print Clearly)

**Title of Abstract:** \_\_\_\_\_

Family Name \_\_\_\_\_ First Name \_\_\_\_\_

Middle Name(s) [Initial(s)] \_\_\_\_\_ ☐ Prof. ☐ Dr. ☐ Mr. ☐ Mrs. ☐ Ms.

Institution \_\_\_\_\_ Position: \_\_\_\_\_

Department \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_

Post Code \_\_\_\_\_ Country \_\_\_\_\_

Telephone No. (work) \_\_\_\_\_ Fax No. \_\_\_\_\_

Telephone No. (home) \_\_\_\_\_ E-mail \_\_\_\_\_

**Presentation preference:** ☐ Oral ☐ Poster ☐ Oral  
or Poster

If scheduling constraints do not permit oral presentation of your materials, will you present your materials as a scientific poster? ☐ Yes ☐ No

**Audiovisual Requirements:** ☐ Overhead projector ☐ Slide projector ☐ LCD projector

Please read the enclosed instructions carefully before completing Form B and return all completed forms to:

**Conference Secretariat of 8th ICOC**  
c/o TCM, P.O. Box 68-439, Taipei, Taiwan  
Tel: 886-2-2523-6017  
Fax: 886-2-2537-7479  
Email: tcm@ms5.hinet.net

**SECRETARIAT USE ONLY**

Abstract No.	Session	Date	Time	Meeting Room

**FORM B – Abstract for Paper and Poster Presentation, 8th ICOC**