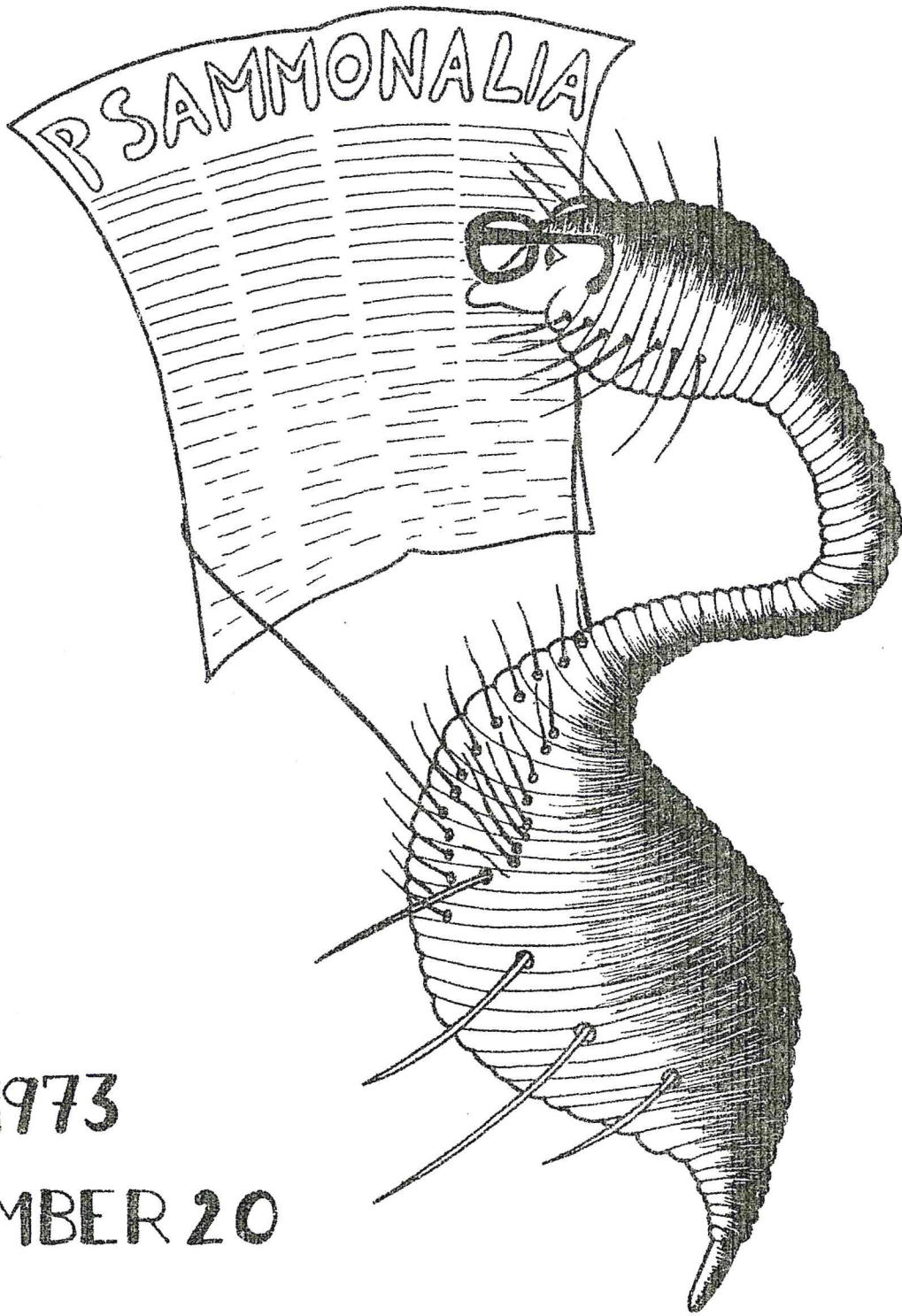


PSAMMONALIA



1973

NUMBER 20

NEWSLETTER OF THE ASSOCIATION
OF MEIOBENTHOLOGISTS

P S A M M O N A L I A

Newsletter of the Association of Meiobenthologists

Number 20

April, 1973

Editor: Wilfried WESTFEIDE, II. Zoologisches Institut
der Universität, D-34 Göttingen, Berlinerstr. 28
Germany (GFR)

This document is not part of the scientific literature
and is not to be cited, abstracted or reprinted as a
published document.

OFFICERS OF THE ASSOCIATION OF MEIOBENTHOLOGISTS

Executive Committee

Chairman: Wilfried Westheide, II, Zoologisches Institut der Universität,
D-34 Göttingen, Berlinerstr. 28, Germany (GFR).

Committee Members:

John S. GRAY, Wellcome Marine Laboratory,
Robin Hood's Bay, YO22 4SL, England.

W. Duane HOPE, Department of Invertebrate Zoology,
Museum of Natural History, Smithsonian Institution,
Washington D.C., 20560, U.S.A.

A. D. MCINTYRE, Marine Laboratory, P.O.Box 101,
Victoria Road, Aberdeen, Scotland, England.

Jeanne RENAUD-MORNANT, Laboratoire de Zoologie, Museum
d'Histoire Naturelle, 57 Rue Cuvier, F-75 Paris V^e, France.

Board of Correspondents:

Bruce C. COULL, Clark University, Department of Biology,
Worcester, Massachusetts 01610, U.S.A.

Tom FENCHEL, Zoologik Institut, Laboratorium B, Økologi,
Ole Worms Allé, Aarhus Universitet, DK-8000 Aarhus C, Denmark.

Liliane FORNERIS, Universidade de Sao Paulo, Instituto de
Biociências, Caixa Postal 20.520, Sao Paulo, Brasil.

William D. HUMMON, Ohio University, College of Arts and
Sciences, Department of Zoology and Microbiology,
Athens, Ohio 45701, U.S.A.

Claude JOUIN, Faculté des Sciences de Paris, Laboratoire
de Zoologie, 9 Quai Saint-Bernard, F-75 Paris V^e, France.

David MASRY, The Hebrew University of Jerusalem,
Marine Biological Laboratory, Eilat, P.O.Box 469, Israel.

Leland W. POLLOCK, Department of Zoology, Drew University,
Madison, New Jersey, U.S.A.

G. Chandrasekhara RAO, Zoological Survey of India,
27 Chowringhee Road, Calcutta 13, India.

Franz RIEMANN, Institut für Meeresforschung,
D-285 Bremerhaven, Am Handelshafen 12, Germany (GFR).

Donald J. ZINN, University of Rhode Island, Department
of Zoology, Kingston, Rhode Island 02881, U.S.A.

E D I T O R I A L

Within the meiobenthologists there is an increasing interest in the geographic distribution of animal groups and species. Thus it is worth while compiling bibliographies of geographic regions parallel to bibliographies of single taxa. Up to now such regions have to be favoured of which the literature can easily be overlooked. On the other hand these regions should be especially interesting under the aspect of zoogeography. In this edition we start a survey of the meiofauna literature of India, which has been compiled by Dr. G.C. Rao. The compilation is preceded by a list of the Indian marine biological stations. I sincerely hope, that according bibliographies dealing with Southern America, Australia, the Pacific etc. will follow and I ask all members to give me knowledge of any such compilation in progress.

Financial Report

The financial situation of the Association has improved. The "Göttinger Universitätsbund" has kindly donated DM 500.- for the publication of the "Psammonalia" in particular. Nevertheless I should like to ask all members for paying up their dues regularly, or if not they should inform me that they have no further interest in receiving the newsletter.

Account: Dr. Wilfried Westheide, Kreissparkasse Göttingen No.100034057.

Brought forward	DM	347.20
Donation of Göttinger Universitätsbund		500.00
Subscriptions received		<u>355.73</u>
Total		1202.93
Cost of producing issue No. 19		<u>164.72</u>
Balance		1038.21 =====

Wilfried Westheide
Editor

NEW MEMBERS

Paul M. Atkins
Zoology Department
University College
Galway, Ireland

(" At present I am a graduate student studying the interstitial fauna of the west coast of Ireland for my doctoral thesis".)

Dr. Peter Barnett
Scottish Marine Biological Association
Dunstaffnage Marine Research Laboratory, P.O.Box 3
Oban, Argyll, Scotland

(" I have investigated the distribution and seasonal abundances of harpacticoid copepods on an intertidal mud flat in Southampton Water. The comparative biology, salinity tolerances, blood osmotic pressures, life cycles and seasonal abundances of *Platychelipus littoralis* Brady and *Platychelipus laophontoides* Sars were investigated. For the last thirteen years I have worked on the effects of thermal effluents on shallow water macrobenthos in the Firth of Clyde. Now developing programmes of research on the meiofauna, particularly harpacticoid copepods, of the Scottish west coast at Dunstaffnage. Meiofauna of the deep muds of sea lochs is being investigated and these studies will be extended to the meiofauna of the continental shelf and deep sea.")

Dietrich Blone
II. Zoologisches Institut und Museum der Universität
D- 34 Göttingen, G.F.R.
Berliner Str. 28

(" I am presently engaged in the systematics of nematodes of tidal beaches and mud flats at List/Sylt (North Sea). After that I intend to complete my thesis under the supervision of Prof. Ax on the zonation, seasonal abundances and life cycles of free-living marine nematodes.")

Dr. Guy Boucher
Museum National d'Histoire Naturelle
Laboratoire de Zoologie (Vers)
57, Rue Cuvier, Paris V^e, France
("Marine nematodes")

John W. Coles

Department of Zoology, British Museum (Natural History)

Cromwell Road

London, S.W.7. 5BD, England

(" I am interested in free-living marine nematodes and have recently completed a short paper (with Dr. R.M. Warwick) on the genus *Euchromadora* and related genera. I am present identifying specimens collected from the sublittoral zone, off the Scilly Islands, by the University of London Sub-Aqua Club. My future plans include a review of the genus *Spirinia*."

Prof. Dr. Lucien de Coninck

Rijksuniversiteit - Instituut voor Dierkunde

Laboratorium voor Morfologie en Systematiek

Ledeganckstraat 35

9000 Gent, Belgium

("I am mainly interested in nematodes. My collaborators and I are concerned with investigations on the benthos of the southern parts of the North Sea, within the scope of the "Mathematical Model of the North Sea", and with plancton, periphyton and benthos of a heavily polluted river, the Samber, in the southern part of Belgium. Different members of the scientific staff are working on various animal groups of the meiobenthos: C. Heip (small Arthropoda of brackish waters); E.Schockaert (Turbellaria); E. Coryn (population dynamics); D. Van Damme (marine meiobenthos without Nematoda); W. Decraemer (marine Nematoda) et al.,.

Dr. V. V. Gal'tsova

Zoological Institute Akad. Sci. USSR

Universitetskaja nal, 1

Leningrad -V- 164, USSR

(" Meiobenthos; ecology of free-living nematodes")

Bernard L.S. Hardy

Scottish Marine Biological Association

Dunstaffnage Marine Research Laboratory, P.O.Box 3

Oban, Argyll, Scotland

(" I have studied the benthic harpacticoids of marine sands in the Firth of Clyde for a number of years. Special attention has been paid to the biology of the intertidal species *Asellopsis intermedia* Scott and to what extent it is affected by heated effluent from a power station. Harpacticoid studies have now been extended to include the biology of sand and mud dwelling species in the Scottish west coast sea lochs. Special interests are ecology, the effect of temperature on the biological cycle,

CHANGES OF ADDRESS

Eike Hartwig	Robert E. Knowlton
Zoologisches Institut u. Museum	Department of Biological Sciences
D - 2 Hamburg 13, G.F.R.	George Washington University
Papendamm 3	Washington, D.C. 20006 U.S.A.

J.-P. L'Hardy	Eric W. Lindgren
Laboratoire de Biologie Animale	Department of Biology
Faculté des Sciences	University of Puget Sound
F-72017 Le Mans Cedex, France	Tacoma, Washington 98416, U.S.A.

Edwin A. Martinez	Donald M. Spoon
Department of Zoology	Department of Biology
University of New Hampshire	Georgetown University
Durham, New Hampshire 03824, U.S.A.	Washington, D.C. 20007, U.S.A.

Wim Vader	E. Wawra
Zoologisk Afdeling	I. Zoologisches Institut
Tromsø Museum	der Universität
N-9000 Tromsø, Norway	A-1010 Wien, Austria
	Dr. Karl-Lueger-Ring

OTHER NEWSLETTERS

1. AMPHIPOD - NEWSLETTER

Editor: Dr. Wim Vader
Tromsø Museum
Zoologisk Avdeling
N-9000 Tromsø, Norway

2. NORDMAR. Newsletter published by the Nordic Council for Marine Biology.

("...a newsletter disseminating knowledge on current research interest and other matters pertaining to work carried out by marine biologists in the Nordic countries... NORDMAR will be issued with at least one number annually. Its pages will be open to anyone wishing to communicate relevant information or wishes pertaining to marine biological activities carried out within the Nordic countries".)

Editor: A.M. Christensen
Marine Biological Laboratory
Strandpromenaden
DK-3000 Helsingør, Denmark

3. TARDIGRADES - Newsletter

Editor: Dr. Hartmut Greven
Abteilung für Histophysiologie
Zoologisches Institut der Universität
D - 44 Münster
Hüfferstr. 1 G.F.R.

CONFERENCES OF INTEREST

1. Eighth European Symposium on Marine Biology

Sorrento (Napoli) October 1 - 7, 1973

Topic: Reproduction and Sexuality in the Marine Environment

Organizer: G. Bacci

Stazione Zoologica di Napoli

Villa Comunale

I- 80121 Napoli, Italy

=====

2. Symposium on the Eastern Mediterranean

September 11-15, 1973

International Ocean Institute, the Royal University of Malta
Msida, Malta

Organizer: Neil C. Hulings

Department of Biology

American University of Beirut

Beirut, Lebanon

=====

3. Third Baltic Symposium on Marine Biology

Helsinki, June 12-19, 1973

=====

4. Second International Meiofauna Conference

York, England, July 7-14, 1973

Organizer: John S. Gray

Wellcome Marine Laboratory

Robin Hood's Bay

Yorkshire, England

=====

LIST OF MARINE BIOLOGICAL STATIONS IN INDIA

1. Zoological Survey of India,
34-Chittaranjan Avenue,
Calcutta-12, WEST BENGAL.
2. Department of Zoology,
Andhra University,
Waltair, ANDHRA PRADESH.
3. Marine Biological Station,
Zoological Survey of India,
3, Kandaswami Gramani Street,
Madras-4, TAMIL NADU.
4. Zoological Research Laboratory,
University of Madras,
Madras-5, TAMIL NADU.
5. Department of Zoology.
Madras Christian College,
Tambaram, Madras, TAMIL NADU.
6. Marine Biological Station,
Porto Novo, TAMIL NADU.
7. Marine Biological Laboratory,
University of Kerala,
Trivandrum-7, KERALA.
8. Central Marine Fisheries
Research Institute,
Ernakulum, Cochin-11, KERALA.
9. Indian Ocean Biological Centre,
National Institute of Oceanography,
Ernakulum, Cochin-18, KERALA.
10. Department of Marine Biology
and Oceanography,
University of Cochin,
Ernakulum, Cochin-16, KERALA.
11. National Institute of Oceanography,
Panaji, Goa.
12. Marine Biological Research Station,
Ratnagiri, MAHARASHTRA.
13. Taraporevala Marine Biological
Research Station,
Bombay, MAHARASHTRA.
14. Marine Algal Research Organization,
Central Salt and Marine Chemical
Research Institute,
Bhavnagar, GUJARAT.
15. Marine Biological Research Station,
Port Okha, GUJARAT.

All these stations are located on the east and west coasts of India.

LITERATURE OF INDIAN MEIOFANUNA

G. C. Rao

Zoological Survey of India, Calcutta

AIYAR, R.G. and K.H. ALIKUNHI, 1940.
On a new Pisionid from the dandy
beach, Madras. Rec. Ind. Mus., 42:
89-107.

AIYAR, R.G. 1943. Change of the
generic name Pisionella Aiyar and
Alikunhi, into Pisionidens (Poly-

AIYAR, R.G. 1944. On some archi-
annelids of the Madras Coast.
Proc. natn. Inst. Sci. India,
10: 113-140.

ALIKUNHI, K.H. 1941. On a new species
of Praegeria occurring in the sandy
beach, Madras. Proc. Ind. Acad. Sci.,

- ALIKUNHI, K.H. 1946. On a new species of *Isaccocirrus* from the Madras beach. *Curr. Sci.*, 15:140.
- ALIKUNHI, K.H. 1947. On *Pisione complexa*, n.sp., from the sandy beach, Madras. *Proc. natn. Inst. Sci. India*, 13: 105-127.
- ALIKUNHI, K.H. 1948 a. On some archiannelids of the Krusadai Island. *Ibid.*, 14: 373-383.
- ALIKUNHI, K.H. 1948 b. A new hermaphrodite species of *Microphthalmus* (*Polychaeta*, *Hesionidae*) from the sandy beach, Madras. *J. Roy. Asia. Soc. Beng.*, Science 14: 17-25.
- ALIKUNHI, K.H. 1949. Genital papillae (suckers) and spermsacs in the pisionid polychaete *Pisionidens indica* (Aiyar and Alikunhi). *Proc. Ind. Sci. Congr.* p. 192.
- ALIKUNHI, K.H. 1951. On the reproductive organs of *Pisione remota* (Southern) together with a review of the family *Pisionidae* (*Polychaeta*). *Proc. Ind. Acad. Sci.*, 33: 14-31.
- COINEAU, N. and G.C. RAO. 1972(?) *Isopodes et Amphipodes des sables intertidaux des iles Andaman et Nicobar (Golfe de Bengale). Vie et Milieu* (In Press).
- DAMODERAN, R. 1973. Meiobenthos of the mud bank regions. *Ind. natn. Sci. Acad.*, 38 (In Press).
- GANAPATI, P.N., and M.V.N. RAO 1958. Systematic survey of marine Ciliates from Visakhapatnam. *Andhra Univ. Mem. Oceanogr.* 62 (2): 75-90.
- GANAPATI, P.N., and G.C. RAO. 1962. Ecology of the interstitial fauna inhabiting the sandy beaches of Waltair coast. *J. Mar. biol. Assn. India*, 4: 44-57-
- GANAPATI, P.N., and G.C. RAO. 1967. On some marine interstitial gastrotrichs from the beach sands of Waltair coast. *Proc. Ind. Acad. Sci.*, 66: 214-225.
- GNANAMUTHU, C.P. 1954. Two new sand-dwelling isopods from the Madras sea-shore. *Ann. Mag. Nat. Hist.* 12:257-274.
- GOVINDANKUTTY, A.G., and B.N. NAIR. 1966. Observations on the interstitial fauna of the south west coast of India. *Hydrobiologia*, 28: 101-122.
- GOVINDANKUTTY, A.G. 1969. The marine Gastrotricha from the interstitial fauna of the south west coast of India. *Bull. natn. Inst. Sci. India*, 38: 623-640.
- HIGGINS, R.P. 1968. Taxonomy and post-embryonic development of the *Cryptorhagae*, a new suborder for the mesopsammic kinorhynch genus *Cateria*. *Trans. Amer. Micro. Soc.*, 87: 21-39.
- HIGGINS, R.P. 1969 a. Indian Ocean Kinorhyncha. 1. *Condylideres* and *Sphenoderes*, new cyclorhagid genera. *Smith. Contr. Zool.*, 14: 1-13.
- HIGGINS, R.P. 1969 b. Indian Ocean Kinorhyncha. 2. *Neocentrophyidae*, a new homalorhagid family. *Proc. Biol. Soc. Washington*, 82: 113-128.
- KRISHNASWAMY, S. 1951. Three new species of sand-dwelling copepods from the Madras coast. *Ann. Mag. Nat. Hist.* 12 (4): 273-280.

- KRISHNASWAMY, S. 1954. A new species of harpacticoid copepod from Madras. Zool. Anz., 152: 88-92.
- KRISHNASWAMY, S. 1956. Sewellina reductus gen. et sp. nov., a new sand-dwelling copepod from Madras. Zool. Anz., 157: 248-250.
- KRISHNASWAMY, S. 1957 a. Two new psammophilous copepods from Madras. Zool. Anz., 159: 230-235.
- KRISHNASWAMY, S. 1957 b. Studies on the Copepoda of Madras. University of Madras. 1-168pp.
- McINTYRE, A.D. 1968. The meiofauna and macrofauna of some tropical beaches. J. Zool., Lon., 156: 377-392.
- NAGABHUSHANAM, A.K., and G.C. RAO 1969. Preliminary observations on a collection of shore-fauna of the Orissa coast. Proc. Zool. Soc. Calcutta, 22: 67-82.
- NAIR, N.B., and A.G. GOVINDANKUTTY 1973. Observations on the colonisation of graded sand by the interstitial fauna of the south west coast of India. Ibid., 38 (In Press).
- PANIKKAR, B.M., and S. RAJAN. 1970. Observations on the ecology of some sandy beaches of the south west coast of India. Proc. Ind. Acad. Sci., 71: 247-260.
- RAO, G.C. 1968. On Psammothuria ganapatii n.gen., n.sp., an interstitial holothurian from the beach sands of Waltair coast and its autecology. Ibid., 67: 201-206.
- RAO, G.C. 1969. On the occurrence of interstitial life in marine beach sands. Bull. natn. Inst. Sci. India, 38: 684-688.
- RAO, G.C. 1969. The marine interstitial fauna inhabiting the beach sands of Orissa coast. J. Zool. India, 21: 89-104.
- RAO, G.C. 1970. Three new interstitial gastrotrichs from Andhra coast, India. Cah. Biol. Mar., 11: 109-120.
- RAO, G.C. 1970. On the occurrence of interstitial fauna in the intertidal sands of some Andaman and Nicobar group of islands. Curr. Sci., 39: 251-252.
- RAO, G.C. 1970. On some interstitial fauna in the marine sands on Indian coast. Curr. Sci., 39: 504-507.
- RAO, G.C. 1971. On two species of marine interstitial Tardigrada from the east coast of India. Proc. Ind. Acad. Sci., 73: 53-57.
- RAO, G.C. 1972. Some new interstitial harpacticoid copepods from Andhra coast, India. Cah. Biol. Mar., 13: 305-319.
- RAO, G.C. 1972. Occurrence of the interstitial tardigrade Parastygarcus higginsii Renaud-Debyser, in the intertidal sands on Andaman Islands. Curr. Sci., 41: 845-846.
- RAO, G.C. 1973. On the geographical distribution of interstitial fauna of marine beach sand. Ind. natn. Sci. Acad., 38 B (1): 1-15.
- RAO, G.C. 1973. Trilobodrilus indicus n.sp. (Dinophilidae, Archiannelida) from Andhra coast. Proc. Ind. Acad. Sci. (In Press).

- RAO, G.C. 1973. Occurrence of some juvenile stages referable to the apodous holoturian *Patinapta ooplax* (Marenzeller) in the intertidal sands of Andaman Islands. *Ibid.* (In Press).
- RAO, G.C. 1973. The interstitial fauna in the intertidal sands of some Andaman and Nicobar groups of Islands. Proceedings of the symposium on Indian ocean. *Mar. biol. Assn. India.* (In Press).
- RAO, G.C., and C. CLAUSEN. 1970. *Planodasys marginalis* gen. of et sp.nov. and *Planodasyidae* fam.nov. (*Gastrotricha Macrodasyoidea*). *Sarsia*, 42: 73-82.
- RAO, G.C., and P.N. GANAPATI, 1966. A report on the occurrence of an aberrant cnidarian *Halammohydra octopodides* Remane in Indian waters. *Curr. Sci.*, 35: 129-130.
- RAO, G.C., and P.N. GANAPATI. 1966. On a new species of *Sphaerosyllis* (*Polychaeta*) from the beach sands of Waltair coast. *Proc. Ind. Acad. Sci.*, 63: 309-312.
- RAO, G.C., and P.N. GANAPATI. 1966. Occurrence of an aberrant kinorhynch *Cateria styx* Gerlach in Waltair beach sands. *Curr. Sci.*, 35: 212-213.
- RAO, G.C., and P.N. GANAPATI. 1967. On some interstitial polychaetes from the beach sands of Waltair coast. *Ibid.*, 65: 10-15.
- RAO, G.C. 1967. On the life-history of a new sand-dwelling copepod. *Crustaceana*, 13: 129-136.
- RAO, G.C., and P.N. GANAPATI. 1968. On some archiannelids from the beach sands of Waltair coast. *Ibid.*, 67:24-30.
- RAO, G.C., and P.N. GANAPATI. 1968. Some new interstitial gastrotrichs from Waltair coast. *Ibid.*, 67: 35-53.
- RAO, G.C., and P.N. GANAPATI. 1968. The marine interstitial fauna inhabiting the beach sands of Waltair coast. *Proc. Natn. Inst. Sci. India*, 34:82-125.
- RAO, G.C., and P.N. GANAPATI. 1969. Some new interstitial copepods from Waltair coast. *Proc. Ind. Acad. Sci.*, 69: 1-14.
- RAO, G.C., and P.N. GANAPATI. 1969. On some interstitial copepods from the beach sands of Waltair coast. *Proc. Ind. Acad. Sci.*, 70: 262-286.
- SALVINI-PLAWEN, L.v., and G.C. RAO. 1973. On three new mesopsammobiotic representations from the Bay of Bengal: *Species of Anthohydra* gen.nov. (*Hydrozoa*) and of *Pseudovermis* (*Gastropoda*). *Z. Morph. Tiere*, 74: 231-240.
- SALVINI-PLAWEN, L.v. 1973. On two new species of the mesopsammic genus *Pseudovermis* (*Nudibranchia, Gastropoda*) from the Bay of Bengal. *Ibid.* (In Press).
- WELLS, T.B.T. 1971. The Harpacticoida (*Crustacea, Copepoda*) of two beaches in south east India. *J. nat. Hist.*, 5: 501-520.

R E C E N T L I T E R A T U R E

- AKESSON, B., 1972: Incipient re-productive isolation between geographic populations of *Ophryotrocha labronica* (Polychaeta, Dorvilleidae). *Zoologica Scripta* 1: 207-210.
- ALTHERR, E., 1972: Contribution à la connaissance des nématodes de l'estuaire de l'Amazone. *Amazoniana* (Kiel) 3: 141-174.
- ANDRÁSSY, J., 1971: Nematoden aus dem Psammon des Oglio-Flusses. *Mem. Mus. Civ. St. Nat. Verona* 19: 191-202.
- ANDRÁSSY, J., 1972: Zwei neue Gattungen von Bodennematoden. *Anals Univ. Sci. Bpest (Biol.)* 14: 187-192.
- ANDRÁSSY, J., 1972: Zwei neue Arten der Nematodengattung *Aulolaimus* DeMan, 1880. *Anals Univ. Sci. Bpest (Biol.)* 14: 193-201.
- ANDRÁSSY, J., 1972: (Verzeichnis der in Ungarn bisher nachgewiesenen Fadenwürmer (Nematoda).) *Állat. Közlem.* 59: 161-171. (In Hungarian)
- ANKAR, S. & B.O. JANSSON, 1973: Effects of an unusual natural temperature increase on a Baltic soft-bottom community. *Mar. Biol.* 18: 9-18.
- BELLAN, G. et F. LAGARDÈRE, 1972: *Nerine mesnili*, n.sp. Spionidien méconnu des plages sableuses de la province Lusitanienne. *Bull. Soc. zool. Fr.* 96: 571-579.
- BELTAGI, S., 1972: The turbellarian fauna of Egypt (New Macrostromida). *Zool. Anz.* 188: 343-365.
- BENWITZ, G., K.G. GRELL, 1971: Ultrastruktur mariner Amöben. II. *Stereomyxa ramosa*. *Arch. Protistenk.*, 113: 51-67.
- BENWITZ, G., K.G. GRELL, 1971: Ultrastruktur mariner Amöben. III. *Stereomyxa angulosa*. *Arch. Protistenk.*, 113: 68-79.
- BERGERARD, J., 1973: In Memoriam Georges Teissier. *Mar. Biol.* 18: 161.
- BERTOLANI, R., 1971: Partenogenesi geografica triploide in un Tardigrado (*Macrobiotus richtersi*). (Geographic parthenogenetic triploid in a tardigrade (*Macrobiotus richtersi*.) *Rend. Accad. Naz. Lincei Rc. (Sci. Fiz. Mat. Nat.)*, 50: 487-489.
- BERTOLANI, R., 1971: Contributo alla cariologia dei Tardigradi. Osservazioni su *Macrobiotus hufelandii*. (Contribution to Tardigrada caryology. Observations on *Macrobiotus hufelandii*.) *Atti Accad. Naz. Lincei Rc. (Sci. Fiz. Mat. Nat.)*, 50: 772-775.
- BIANCHI, A., M. BIANCHI, 1971 (1972): La numération des populations bactériennes du milieu marine. *Tethys* 3: 697-704.
- BJÖRKLUND, B.G., 1972: Taxonomie and ecological studies of species of *Notholca* (Rotatoria) found in sea- and brackish water, with description of new species. *Sarsia* 51: 25-66.

BODEANU, N., Données qualitatives et quantitatives sur le micro-phytobenthos des fonds sablonneux et vaseux du littoral roumain de la Mer Noire. Cercet. Mar., 1: 27-58 (1971).

BORUTZKY, Ye.V., G.L. OKUNEVA, 1971: Novyye vidy Copepoda, harpacticoida iz yuzhnogo Baykala Soobshcheniye I. (New species of Copepoda Harpacticoida from the southern part of Lake Baikal I.) Zool. Zh., 50: 1632-1638. (In Russian, English summary).

BOUCHER, G., 1972: Distribution quantitative et qualitative des nématodes d'une station de vase terrigène côtière de Banyuls-sur-mer. Cah. biol. mar. 13: 457-474.

BOUCHER, G., 1972: Deux espèces nouvelles de Monhysterida (Nematodes) de la vase terrigène côtière de Banyuls-sur-mer. Bull. Soc. Zool. France 96: 557-562.

BOUCHER, G. et Fr. de BOVÉE, 1971: Trochamus carinatus gen. et sp.n. et Adenchromadora megamphida gen. et sp.n. Chromadoridae (Nematoda) à dix soies céphaliques de la vase terrigène côtière de Banyuls-sur-mer. Vie et Milieu (Ser.A), 22: 231-242.

BUNKE, D., 1972: Sklerotin-Komponenten in den Vitellocyten von Microdalyellia fairchildi (Turbellaria). Z. Zellforsch. 135: 383-398.

CADDY, J.R., 1973: Underwater observations on tracks of dredges and trawls and some effects of dredging on a Scallop Ground. J. Fish. Res. Board Canada, 30: 173-180.

COULL, B.C., 1973: Meiobenthic Harpacticoida (Crustacea, Copepoda) from the deep sea off North Carolina I. The genera Hemimesochra Sars, Paranannopus Lang and Cyldrionannopus g.n. Trans. Amer. micros. Soc., 92: 185-,98.

COULL, B.C., 1973: Meionenthic Harpacticoida (Crustacea, Copepoda) from the deep sea off North Carolina II. The family Cerviniidae Sars, Lang. Trans. Amer. micros. Soc., 92: 198-208.

CROLL, N.A. et A. ZULLINI, 1972: Observations on the bionomics of the freshwater nematode Chromadorina bioculata. J. Nematol. 4: 256-260.

DASTYCH, H., 1972: Isohysibius weglarskae sp.n. a new species of Tardigrada from Poland. Bull. l'Acad. Polon. Sci., 20: 761-763.

DASTYCH, H., 1972: Niesporczaki (Tardigrada) wolińskiego parku narodowego. (Tardigrada of the Wolin National Park.) Badan. Fizjograf. Polska Zachodnia, 25(b): 37-45.

DASTYCH, H., 1972: An annotated list of Tardigrada from Mts. Elburs, Iran. Frag. Faunistica (Warszawa), 18: 47-54.

DIAZ, J.P., 1971: Cycle évolutif d'Acanthocheilus quadridentatus Molin, 1858 (Nematoda). Vie et Milieu, (Sér.A) 22: 289-304.

- DINET, A., 1972: Réproduction, développement et croissance de *Bulbamphiascus imus* (Brady) et *Halectinosoma herdmani* (T. + A. Scott) Copepoda, Harpacticoida. *Tethys* 4: 437-444.
- DRESSEL, D.M., D.R. HEINLE, M.C. GROTE, 1972: Vital staining to sort dead and live copepods. *Chesapeake Sci.* 13: 156-159.
- DROBYSHEVA, I.M., 1972: Daunye po Gametogenezu Beskischechnoj Turbellaryii *Convoluta convoluta* (Abildgaard). (Observations on the gametogenesis of *Convoluta convoluta* (Abildgaard) Tubellaria Acoela.) *Vestn. Leningr. Univ. (Biol.)*, No.9, Ser. 2, 28-39. (In Russian, English summary).
- EMSCHERMANN, P., 1972: Cuticular pores and spines in the Pedicellinidae and Barentsiidae (Entoprocta), Their relationship, ultrastructure, and suggested function, and their phylogenetic evidence. *Sarsia* 51: 7-16.
- FANTA, S.E., 1972: Anatomy of the nauplii of *Euterpina acutifrons* (Dana) (Copepoda, Harpacticoida). *Crustaceana*, 23: 165-181.
- GAGE, J. & A.D. GEEKIE, 1973: Community of the benthos in Scottish sea lochs. II. Spatial pattern. *Mar. Biol.* 19: 41-53.
- GREVEN, H., 1972: Vergleichende Untersuchungen am Integument von Hetero- und Eutardigraden. *Z. Zellforsch.* 135: 517-538.
- GREVEN, H., 1973: Die Kryptobiose der Bärtierchen. *Mikrokosmos* 62: 65-69.
- HALL, J.R., and R.R. HESSLER, 1971: Aspects in the population dynamics of *Derocheilocaris typica* (Mystacocanida, Crustacea). *Vie et Milieu, sér. A*, 22: 305-326.
- HAMOND, R., 1973: Some Laophontidae (Copepoda: Harpacticoida) from off North Carolina. *Trans. Amer. micros. Soc.*, 92: 44-59.
- HEYDORN, A.E.F., 1973: The interdependence of marine and estuarine ecosystems in South Africa. *South African Journal of Science* 69: 18-24.
- HOBSON, K.D., 1971: Polychaeta new to New England, with additions to the description of *Aberranta enigmatica* Hartman. *Proc. Biol. Soc. Wash.* 84: 245-252.
- HOLMQUIST, Ch., and T.G. KARLING, 1972: Two new species of interstitial marine triclads from the North American Pacific coast, with comments on evolutionary trends and systematics in Tricladida (Turbellaria). *Zool. Scripta* 1: 175-184.
- HOPE, W.D., and D.G. MURPHY, 1972: A taxonomy hierarchy and checklist of the genera and higher taxa of marine nematodes. *Smithsonian Contributions to Zoology* No. 137: 1-101, Washington.
- HOPPER, B.E., 1972: Free-living marine nematods from Biscayne Bay, Florida. IV. Cyatholaimidae: On the occurrence of *Marilyma* n.gen. and *Longicyatholaimus* Micoletzky, 1924 in Biscayne Bay, with a description of *L. longicaudatus* (DeMan, 1876) from the type locality. *Zool. Anz.* 189: 64-88.

- HUEMANN, S., 1972: Das ökologische Gleichgewicht im Grundwasser sandig-kiesiger Ablagerungen, und seine Störung durch versickernde Verunreinigungen; mit besonderer Berücksichtigung vertikaler Infiltrationsvorgänge. Belastung und Belastbarkeit von Ökosystemen, Tagungsbericht der Gesellschaft für Ökologie, Tagung Gießen 1972, 89-96.
- ITO, T., 1972: Descriptions and records of marine harpacticoid copepods from Hokkaido. IV. J. Fac. Sci. Hokkaido Univ. (Zool.) 18: 305-336.
- ITO, T., 1972: On the fifth copepodid stage of a harpacticopepod of the genus *Cletopsyllus* from Sagami Bay. J. Fac. Sci., Hokkaido Univ., ser. VI, Zool., 18: 406-410.
- IVANOV, V.P., Yu.V. MAMKAEV, R.A. PEVZNER, 1972: Elektronnomikroskopicheskoe issledovanie statotsista beskischechnoj turbellarii *Convoluta convoluta*. (Electron microscopic study on the statocyst in the acoelan turbellaria *Convoluta convoluta*.) Zh. Evol. Biokhim. Fiziol., 8: 189-193. (In Russian, English summary).
- KAESLER, R.L., and K.C. LOHMAN, 1972: Depth distribution of populations of *Kriathe producta* (Ostracoda). Antarctic. J. U.S., 7: 197-198.
- KARLING, T.G., 1973: Ist *Hypoblepharina* Böhmig (Turbellaria) eine kommensalistische Gattung? Mit Beschreibung einer neuen Art aus der Amphipode *Cheirimedon femoratus*. Z. Morph. Tiere, 75: 51-58.
- KARLING, T.G., V. MACK-FIRA and J. DÖRJES, 1972: First report on marine microturbellarians from Hawaii. Zool. Scripta 1: 251-269-
- KLEKOWSKI, R.Z., L. WASILEWSKA, E. PAPLINSKA, 1972: Oxygen consumption by soil inhabiting nematodes. Nematologica 18: 391-403.
- KONTOGIANNIS, J.E., 1973: Acquisition and loss of heat resistance in adult tide-pool copepod *Tigriopus californicus*. Physiol. Zool., 46: 50-54.
- KÜHL, H., 1972: Hydrography and Biology of the Elbe estuary. Oceanogr. Mar. Biol. Ann. Rev., 10: 225-309.
- KUSSAKIN, O.G., 1972: Isopoda from the coastal zone of the Kurile Islands. I. Janiridae and Jaeropsidae from Urup Island. Crustaceana, Suppl 3: 155-165.
- KUSSAKIN, O.G., 1972: Isopoda from the coastal zone of the Kurile Islands. II. Some data on the Munnidae mainly from the middle Kuriles. Crustaceana, Suppl. 3: 166-177.
- KUSSAKIN, O.G., 1972: Isopoda from the coastal zone of the Kurile Islands. III. Three new arturids from the middle Kuriles with taxonomic remarks on the family Arcturidae. Crustaceana, Suppl. 3: 178-189-
- KUSSAKIN, O.G., & L.A. TZAREVA, 1972: Tanaidacea from the coastal zones of the middle Kurile Islands. Crustaceana,

LAUBIER, L., 1971: À propos d'une espèce de Paradoneis (Polychète, Paraonidae) nouvelle pour la Méditerranée occidentale. Vie et Milieu, sér. A, 22: 259-262.

LE CALVEZ, Y., 1972: Etude écologique de quelques Foraminifères de la côte saharienne de l'Atlantique. Rev. Travaux Inst. Pêches maritimes, 36: 245-254.

LEWIS, M.H., 1972: Freshwater harpacticoid copepods of New Zealand. I. Attheyella and Elaphoidella (Canthocamptida). New Zealand J. Mar. Freshwater Res. 6: 23-47.

MATEU, G., 1972: Les Foraminifères du tyrrhénien de la baie de Palma de Majorque et les conditions bio-écologiques de l'ancienne mer des Baléares. Rapp. Procès-Verbaux Réun. Comm. internat. Explor. sci. Mer Méditerranée, 20: 539-540.

MATHERON, R., R. BAULAIGUE, 1972: Bactéries photosynthétiques sulfureuses marines. Assimilation des substances organiques et minérales, et influence de la teneur en chlorure de sodium du milieu de culture sur leur développement. Arch. Mikrobiol. 86: 291-304.

MIHELICIC, F., 1971/1972: Ein Beitrag zur Kenntnis der Süßwassertardigraden Nordeuropas. Verh. Zool. Bot. Ges. Wien, 110/111: 37-45.

OTT, J.A., 1972: Monobryozoo bulbodum n.sp., a new solitary interstitial Bryozoon from the west Atlantic coast. Cah. Biol. Mar. 13: 431-428.

PATNAIK, S., 1971: Seasonal abundance and distribution of bottom fauna of Chilka Lake. J. mar. biol. Ass. India 13: 106-125.

PETRAN, A., 1971: Sur la faune des Ciliés des sédiments sablonneux du littoral roumain de la Mer Noire. Cercet. Mat. Inst. Rom. Rech. Mar., 1: 149-166.

POR, F.D., 1973: The benthic Copepoda of the Sibonian Lagoon (Sabkhat et Bardawil). Cah. Biol. Mar. 14: 89-107.

RAOSOM, J.D., T.C. DORRIS, 1972: Analyses of benthic community structure in a reservoir by use of diversity indices. Am. Midl. Nat., 82: 434-447.

RICHARDSON, M.D., 1972: Benthic studies in Antarctica. Antarctic J. U.S., 7: 185-186.

SALVINI-PLAWEN, L.v., 1972: Zur Taxonomie und Ökologie mediteraner Holothuroidea - Apoda. Helgoländer wiss. Meeresunters. 23: 459-466.

SALVINI-PLAWEN, L.v., 1973: On three new mesopsammobiotic representatives from the Bay of Bengal: Species of Anthohydra gen.nov. (Hydrozoa) and of Pseudovernis (Gastropoda). Z. Morph. Tiere 74: 231-240.

SLACK, H.D., 1972: A rotary sieve for removing mud from bottom deposit samples. Freshwater Biol. 2: 159-162.

SOPOTT, B., 1973: Jahreszeitliche Verteilung und Lebenszyklen der Proseriata (Turbellaria) eines Sandstrandes der Nordseeinsel Sylt. Akad. Wiss. Lit. Mainz, Mikrofauna d. Meeresbodens 15:

SOYER, J., 1971: Contribution à l'étude des copépodes harpacticoides de Méditerranée occidentale. 5. *Stenhelia* (Delavalia) *coineanae* n.sp., *Stenhelia* (D.) *bocqueti* n.sp. et *Typhlamphiascus bouligandi* n.sp. (Diosaccidae, Sars). *Vie et Milieu*, sér. A, 22: 263-280.

SOYER, J., 1971: Bionomie benthique du plateau continental de la côte catalane française. V. Densités et biomasses du méiobenthos. *Vie et Milieu*, sér.B, 22: 351-423.

STORCH, V. und F. RIEMANN, 1973: Zur Ultrastruktur der Seitenorgane (Amphiden) des linnischen Nematoden *Tobrilus aberrans* (W. Schneider, 1925) (Nematoda, Enoplida). *Z. Morph. Tiere* 74: 163-170.

TEUCHERT, G., 1973: Die Feinstruktur des Protonephridialsystems von *Turbanella cornuta* Remane, einem marinen Gastrotrich der Ordnung *Macrodasycoida*. *Z. Zellforsch.* 136: 277-289.

THOMAS, C.W., 1972: Two species of antarctic rotifers. *Anarctic J. U.S.* 7: 186-187.

VITIELLO, P., 1972: Le genre *Wieseria* Gerlach, 1956 (nematoda, Oxystominae). *Tethys* 4: 645-650.

VITIELLO, P. et G. HASPELAGH, 1972: Ceramonematidae (Nematoda) de fonds vaseux de Méditerranée. *Bull. Inst. r. Sci. nat. Belg. (Biol.)* 48: 1-14.

WESTHEIDE, W., 1973: Zwei neue interstitielle *Microphthalmus*-Arten (Polychaeta) von den Bermudas. *Akad. Wiss. Lit. Mainz, Mikrofauna d. Meeresbodens* 14: 1-16.

WILLIAMS, R., 1972: The abundance and biomass of the interstitial fauna of a graded series of shell gravels in relation to the available space. *J. Anim. Ecol.* 41: 623-646.

=====

B O O K S

MURRAY, J.W., 1971: *An Atlas of British recent foraminiferids.* London, Heinemann Educational Books, 244 p.

REMANE, A. and C. SCHLIEPER, 1971: *Biology of brackish water.* 2nd rev.ed. (Die Binnengewässer, vol.25) Stuttgart, Schweizerbart; New York, Toronto, Sydney: Wiley-Interscience, 372 p., 21.75 Dollars.

REVERBERI, G. (Ed.), 1971: *Experimental embryology of marine and fresh-water invertebrates.* Amsterdam: Elsevier North-Holland, 587 p., ca. 31.25 Dollars