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# PSAMMONALIA



NEWSLETTER OF THE ASSOCIATION OF  
MEIOBENTHOLOGISTS

P S A M M O N A L I A

Newsletter of the Association of Meiobenthologists

Number 13

June 1971

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EDITORIAL

Two items are of special interest at this time. First the appearance of the "Manual for the Study of Meiofauna". This represents the efforts of the team of meiofaunal workers who attended the Tunis Conference. I am sure it will be widely used and because of its cheapness will appeal to a wide audience. I hope the members will advertise the Manual to a wider audience, to encourage and stimulate interest in meiofaunal research.

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The second item of importance concerns election. Two vacancies are due to fall on the committee and nominations are requested for these vacancies by August 1st at the latest. Let us have a number of nominations so that the Association can grow vigorously.

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COVER

For the first time Psammionalia appears with a cover. The present one stems from a drawing of Don Spoon, which has been amended slightly by Wilfried Westheide with assistance from Christiane Schöpfer-Sterrerr. We are grateful for the help and cooperation of these members. As the cover is only on a duplicating stencil (cost \$1.25) we can quickly and cheaply substitute different designs. So how about some of you artists designing a black and white cover for the 1972 issues ?

John S. Gray.  
Editor.

FINANCIAL REPORT

		£
Brought forward	.....	29.62
Subscriptions received	.....	12.71
		<hr/>
	Total	42.33
		<hr/>
Cost of producing issue No.12		11.75

Balance at 23/5/71 £30.53

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SUBSCRIPTIONS

Out of a potential membership of 178 only 34 subscriptions have been received. (You should have receipts if you have paid).

Please do not let the Association be supported entirely by these few members.

Send your subscriptions (£3 U.S. or £1.25)  
S O O N.

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MANUAL FOR THE STUDY OF MEIOFAUNA

Neil C. Hulings and John S. Gray.

Smithsonian Contributions to Zoology, Number 78, 83 pages, 1971.

The manual has just been published in a handsome hard-backed edition. Topics covered include :

1. General Description of the Habitat
2. Environmental Analysis
3. General Collection Techniques
4. General Extraction Techniques
5. General Taxonomic Procedures
6. Comments on Selected Taxa
7. Culture and Experimental Techniques
8. Biotopes other than Sediment
9. Literature Cited
10. Appendix (listing instruments, manufacturers prices, etc.)

Section 2 on environmental analyses covers the various methods of sampling interstitial water, taking temperature and salinity data, pH and redox oxygen, saturation, granulometry, mineralogy, porosity, organic matter, chlorophylla, bacteria, light and nutrients.

Section 3 covers types of sampling, corers and sublittoral sampling.

Section 4, field extraction techniques from sand, mud and on ship.

Laboratory techniques for sand and mud.

Section 5 details methods for examination of live material, fixation and preservation methods for 'soft' and 'hard' bodied fauna, curation and data presentation.

Section 6 has comments on the best methods for dealing with selected meiofaunal taxa (most groups are covered from Foraminifera to Tunicata).

Section 7 deals with culture and experimental techniques in the field and laboratory and has a section on physiological techniques.

Section 8 briefly mentions the fauna associated with non-sedimentary biotopes.

Section 9 cites over 300 references.

Section 10 lists manufacturers, prices and addresses of instruments, chemicals etc., recommended by users' experiences.

The Manual is available from :

The Superintendent of Documents,  
Government Printing Office,  
Washington D.C. 20402

at the incredibly low price of \$ 2.75.

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#### ELECTIONS OF OFFICERS

Two vacancies on the Committee of the Association are due to fall on December 31st 1971, on the retirement of Bob Higgins and Don Zinn. Nominations are requested for these positions. In accordance with the Constitution, each nomination must be made in writing and be signed by two members. The Council will then ascertain that the candidate is willing to stand and should a ballot be necessary papers will be circulated to members.

To assist in the nomination procedure of candidates will proposers and seconders please return the slip overleaf to the Editor by August 1st, 1971 at the latest.

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NEWS FROM THE MEMBERS

JOHN CROOM.

I have spent the last eleven months working on the ecology of ciliated protozoans in the region of the Antarctic Peninsula. This program was funded by the National Science Foundation and the grant supervised by Roanoke College which is the home institution of the senior investigator, Dr. Jesse Thompson. I worked at the Soviet station, Bellinshausen which is located in the South Shetland Islands. The year's work went extremely well, and I expect to begin some publications within the year. I am now back at Emory University where I am continuing my degree work.

JEANNE RENAUD-MORNANT.

At the present time, in the Muséum National d'Histoire Naturelle, Paris Laboratoire de Zoologie-Vers, Guy BOUCHER is finishing his Ph.D. on meiobenthic Nematoda from the coastal mud off Banyuls (western Mediterranean). Eight new species have been described, (some with P. VITIELLO), three papers are in press at the Bull. Mus. Nat. Hist. Nat. Special reference has been made to the feeding mechanism and gut contents of the main species.

The Mystacocarida Derocheilocaris romanei is being intensely studied by a team supervised by Prof. Delamare Deboutteville. The team includes Dr. Ph. CALS, University of Paris, Lab. de Zoologie, histochemical "in toto" staining, DR. J. RENAUD-MORNANT, histological sections and DR. POCHON-MASSON, University of Paris, Laboratoire d'Evolution des Etres Organisés, electron microscopy. Special attention is given to sense organs and nervous system and also to the numerous glands present in both sexes.

In Arcachon (University of Bordeaux) DR. P. LASSERRE and Dr. J. RENAUD-MORNANT have measured the Oxygen uptake of the Mystacocarida Derocheilocaris romanei f. biscayensis under different conditions of temperature and salinity. Two papers are in preparation on this subject. The micro-cartesian diver technique was used for this research.



DON ZINN.

The new Acanthaster Newsletter is edited and published by Dr. Lucius Eldrodge III, director of the Marine Laboratory, University of Guam, Ajana, Guam 96910. Numbers one and two (July 1970) have already appeared.

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MIKROFAUNA DES MEERESBODENS

Enclosed you will all find copies of a leaflet concerning a new series of the Akademie der Wissenschaftler und der Literatur Mainz, devoted to microfauna. In that each issue is priced separately this represents an unusual publishing concept. The editor, Professor AX, is willing to accept manuscripts for possible publication in the new series. The papers already published cover a wide range of topics, and so I am sure the series will appeal to a broad section of the membership. If you have any queries do not hesitate to contact Professor Ax at II Zoologische Institut, 34 Göttingen, Berlinerstr. 28, Germany.

\*\*\*\*\*

CHANGES OF ADDRESS

DR. G. TEUCHERT,  
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NEW MEMBERS

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Devon,  
England.

Interests :  
Harpacticoid Copepods  
Productivity studies  
Energy flow

RUPPERT, E.  
Department of Zoology,  
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Chapel Hill,  
N.C. 27514,  
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Interests :  
Gastrotriche.

CASTILLA, Juan Carlos,  
Laboratorio Zoologia,  
Universidad Catolica de Chile,  
Castila 114-D,  
Santiago,  
Chile.

Interests : general.

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RECENT LITERATURE

APOSTOLOV, A. 1970.  
Katalog der Harpacticoid-  
enfauna Bulgariens. Zool.  
Anzeiger 184, 412-427.

AX, P. 1971.  
Systematik und Phylogenie  
der Trigonostominae  
(Turbellaria, Neorhabdo-  
coela). Mikrofauna des  
Meeresbodens, 4.

AX, P. & AX, R. 1970.  
Das Verteilungs-prinzip  
des subterranean Psammon  
am Ubergang Meer-Suss  
wasser Mikrofauna des  
Meeresbodens. 1 : 51 pp.

AX, P. & HELLER, R. 1970.  
Neue Neorhabdocoela  
(Turbellaria) vom Sandstrand  
der Nord-see Insel Sylt.  
Mikrofauna des Meeresbodens  
2 : 42 pp.

AX, P. & SCHILKE, K. 1971.  
Karkinorhynchus tetragnathus  
nov. spec. ein Schizorhynchier mit zweigeteilten  
Rüsselhaken (Turbellaria,  
Kaloptorhynchia) Mikro-  
fauna des Meeresbodens 5.

BACESCU, M., GOMOIU M.T.  
& DUMITRESCU, E. 1968.  
Quelques considerations  
sur la dynamique des  
organismes de la zone  
mediolittorale sableuse  
en mer Noire. Rapp.  
Comm. int. Medit. 19(2) :  
117-119.

BAGGE, P. 1969.  
Effects of pollution on  
estuarine ecosystems. I.  
Effects of effluents from  
wood-processing industries  
on the hydrography, bottom  
and fauna of Saltkällefjord  
(Sweden). II. The  
succession of the bottom  
fauna communities in  
polluted estuarine habitats  
in the Baltic-Skagerak  
region. Merentutkimuslait.  
Julk. 228 : 3-130.

BLOOM, S.A. 1970.  
An oil dispersant's  
effect on the microflora  
of beach sand. J. mar.  
Biol. Ass. U.K. 50 :  
919-923.

BODIN, P. 1970.  
Copépodes Harpactacoides  
marins des environs de la  
Rochelle 1. Espèces de la  
vase intertidale de Chate-  
laillon. Tethys 2 : 385-436.

BOUCHER, G. 1970.  
Paramesacanthion catellus  
n. sp., nouvelle espèce  
d'Enoplidae (Nématode) de la  
vase terrigène cotière de  
Banyuls-sur-mer, Bull. Mus.  
Nat. hist. nat. (2. Ser.)  
42 : 570-576.

BOYD, W.L., I.ROTHENBERG &  
J.W.Boyd. 1970.  
Soil Microorganisms at  
Paradise Harbor, Antarctica.  
Ecology 51(6) : 1040-1046.

BRANDENBURG, J. 1970.  
Die Cuticula des Dinophilus  
(Archiannelida) Z. Morph.  
Tier 68, 300-307.

BURKOVSKY, I.V. 1970.  
The ciliates of the meso-  
psammon of the Kandalaksha  
Gulf (White Sea). I. Acta  
Proto-zool., 7, 476-489.  
(Dep. Invert. Zool., Moscow  
V-234, Univ. Moscow, USSR.)

BUSH, L. & ZINN, D.J. 1970.  
Halammohydra schulzei :  
First Actinulid recorded  
from Western Atlantic.  
Trans. Amer. Microsc. Soc.  
89 : 431-3.

COINEAU, N. 1970.  
Isopodes interstitielles  
de Nouvelle-Calédonie.  
In : Exp. Fr. Récifs  
Coral. Nouvelle-Calédonie.  
Ed. Singer-Polignac. 4 :  
353-376.

COREY, S. 1970.  
The quantitative distri-  
bution of three Cumacea  
(Crustacea, Pericarida)  
in Kames Bay, Scotland.  
Canadian Journal of  
Zoology 48(5) : 925-930.  
Address - Univ. of Guelph,  
Dept. of Zoology, Guelph,  
Ontario, Canada.

✓  
HAVE  
COTTARELLI, V. 1970.  
Una nuova Parastenocaris  
di Sardegna (Crustacea,  
Copepoda, Harpacticoidea).  
R. C. Ist. lombardo Accad.  
Sci. B., 103, 255-268.

COULL, B.C. 1971.  
Meiobenthic Harpacticoida  
(Crustacea, Copepoda)  
from St. Thomas, U.S.  
Virgin Islands. Trans.  
Amer. Micros., 90(2) :  
207-218.

CRAIG, P.C. 1970.  
The behaviour and distri-  
bution of the intertidal  
sand beetle, Thinopinus  
pictus (Coleoptera :  
Staphylinidae). Ecology  
51(6) : 1012-1018.

CUBIT, J. 1970.  
A simple piston corer for  
sampling sand beaches.  
Limnol. Oceanogr. 15,  
155-156.

ENCKELL, P.H. 1970.  
Parastenocaridae  
(Copepoda, Harpacticoidea)  
from Ceylon. Arkiv för  
Zoologi, N.S., 22, 545-556.

EVDONIN, L.A. 1970.  
The proboscis apparatus in  
the family Polycystidae.  
Izdatelstwo Leningr.  
Universiteta. In Russian.

EVDONIN, L.A. 1970.  
A new genus of Kalyptorhynchid  
turbellarians of the family  
Polycystidae (Neorhabdocoela).  
Zool. Zh. 49, 781-785. In  
Russian.

FENCHEL, T.M. & R.J. RIEDL.  
1970. The sulfide system :  
a new biotic community under-  
neath the oxidised layer of  
marine sand bottoms. Marine  
Biology 7, 255-268.

GABEL, B. 1971.  
Die Foraminiferen der Nordsee.  
Helgoländer. wiss. Meeresunters.  
22 : 1-65.

✓  
GALAHANO, M.H. 1970.  
Contribuicao para o conheci-  
mento da fauna intersticioal  
em Portugal. Publ. Inst.  
Zool. Dr. A. Nobre 110 :  
1-206.

GERLACH, S.A. 1971.  
On the importance of Marine  
Meiofauna for Benthos  
Communities. *Oecologia* 6 :  
176-190.

GOMOIU, M. 1968.  
Distribution of sand  
areas and their biocoenosis  
in the roumanian Black Sea  
coast. *Trav. d. Mus.  
d'Hist. Nat. "Grigore  
Antipa"*, 8 : 291-299.

GOMOIU, M.T. 1969.  
Some aspects of the Black  
Sea benthos. *Hydrobiologia*,  
10 : 265 - 277.

GOMOIU, M.T. 1969.  
Studiul sedimentelor  
nisipoase de la litoralul  
Romaness al Marii Negre.  
*Ecologie Marina*, 3 :  
227-325.

GOMOIU, M.T. 1970.  
On the effects of water  
motion on marine organisms  
in the mesolittoral and  
infralittoral zones of  
the Rumanian shore of  
the Black Sea. *Sarsia*  
34 : 95-108.

GOMOIU, M. & M.BALTOC.  
1968. Le chimisme  
de eaux interstitielles  
des zones de sable situees  
entre le mer et les lacs  
littoraux. *Trav. d. Mus.  
d'Hist. Nat. Grigore Antip*  
8 : 311-320.

GOMOIU, A. & M.T. GOMOIU.  
1968. Calcium carbonate  
contact of sandy marine  
sediments from the beaches  
of the Black Sea Romanian  
littoral. *Rev. Roum. Biol.  
-Zool.* 13(6) : 385-392.

GOMOIU, M.T. & I.I. PORUMB.  
1969. *Mya Arenaria* L., a  
bivalve recently penetrated  
into the Black Sea. *Rev.  
Roum. Biol. -Zool.* 14(3) :  
199-202.

GRAY, J.S. 1971.  
Occurrence of the aberrant  
Bryozoan Monobryozoon  
ambulans Remane, off the  
Yorkshire coast. *J. nat.  
Hist.* 5 : 113-7.

(Although I state that this  
is the second ever record of  
Monobryozoon ambulans, this  
is not so. Professor Gerlach  
has found another population  
at 30-40m depth off the coast  
of Jutland, which he reported  
in his paper Gerlach, S.A.  
1969 Cateria submersa sp. n.  
ein crytorhager Kinerhynch  
aus dem sublitoralen Mesop-  
sammal der Nordsee. *Veroff.  
Inst. Meeresforsch. Bremerh.*  
12, 161-8).

✓ GRAY, J.S. & VENTILLA, R.  
1971. Pollution effects  
on micro- and meiofauna  
of sand. Mar. Pollut.  
Bull. 2, 39-43.

GREEN, R.H. & K.D. HOBSON.  
1970. Spatial and tem-  
poral structure in a tem-  
perate intertidal community  
with special emphasis on  
Gemma gemma (Pelecypoda :  
Mollusca). Ecology 51(6) :  
999-1012.

GRIMALDI, S. DE ZIO.  
1968. Confronto fra  
Nematodi del fango del  
coralligono di piattif-  
orma e una comunità  
del fango dello stesso  
distretto adriatico. -  
Bollettino di Zoologia  
35 : 347 (only).

HIGGINS, R.P. 1969.  
Taxonomy and postembryonic  
development of the crypto-  
rhagae, a new suborder for  
the mesopsammic kinorhynch  
genus Cateria. Intern.  
Indian Ocean Exped. Coll.  
Reprints 6, Paris (Unesco).

HOPPER, B.E. 1970.  
Free-living marine nematodes  
from Biscayne Bay, Florida,  
III. Eurystominidae :  
Paraeurystomina bissonettei  
sp. n. from Biscayne Bay  
and other locations. Pro-  
ceedings of the Helmintho-  
logical Society of Washington  
37(2) : 175-178.

HOPPER, B.E., S.P. MEYERS &  
R. CEFALU. 1970.  
Microsporidian Infection of  
a Marine Nematode Metoncho-  
lainus scissus Journal of  
Invertebrate Pathology 16  
(3) : 371-377.

HUSMANN, S. 1970.  
Weitere Vorschlag für eine  
Klassifizierung subterranean  
Biotopo und Bioocenosen der  
Süßwassertauna. Int. Revue  
ges. Hydrobiol. 55(1) :  
115-129.

HUSMANN, S. 1970.  
Ökologie, Morphologie und  
Verbreitungsgeschichte  
subterranean Wassernilben  
(Limnohalacaridae) aus  
Schweden. Arch Hydrobiol.  
67(2) : 242-267.

ITO, T. 1970.  
The biology of a harpacticoid  
copepod, Tigricopus japonicus  
Mori. J. Fac. Sci. Hokkaido  
Univ., ser. VI, 17(3) : 474-500.

ITO, T. 1970.

Descriptions and records of marine harpacticoid copepods from Hokkaido III. Ann. Zool. Jap., 43(4) : 211-218.

JOHNSTON, R. 1970.

The Decomposition of crude oil residues in sand columns. J. mar. Biol. Ass. U.K. 50 : 333-345.

JOUIN, C. 1970.

Recherches sur les Protodrilidae (Archiannélides); I. - Etude morphologique et systématique du genre Protodrilus. Cah. Biol. Mar. 11, 367-434.

JOUIN, C. 1970.

Archiannélides interstitielles de Nouvelle-Calédonie. In : Exp. Fr. Récifs Coral. Nouvelle Calédonie. Ed. Singer-Polignac. 4 : 150-167.

KARLING, G. 1970.

Eethriomolus balticus Meixner 1938 (Turbellaria) in den schwedischen Binnensee Vättern. -Zool. Anz. 184 : 120-121.

KIRSTEUER, E. 1969.

Gnathostomulida, a new component of the benthic invertebrate fauna of lagoons. Lagunas Costeras, un Symposio. Mon. Simp. Intern. Lagunas Costeras, UNAM - UNESCO, Nov.28-30, 1967. Mexico, D.F., 537-544.

KIRSTEUR, E. 1970.

On some species of Meio-benthic Worms of the Class Gnathostomulida from Barbados, West Indies. Amer. Mus. Novit. 2432.

KIKUCHI, Y. 1970.

A new species of Parastenocaris (Harpacticoida) from a sandy beach of the Lake Hinuma. Annataiones Zoologicae Japonenses 43(3) : 170-173.

KIRSTEUER & J. VAN DER LAND.

1970. Some notes on Tubiluchus corallicola (Priapulida) from Barbados, West Indies. -Marine Biology 7 : 230-238.

LANFRANCHI, A. 1969.

Nuovi Otoplanidi (Turbellaria Proseriata) delle coste della Liguria e della Toscana. Boll. Zool. 36, 167-168.

LEE, J.J., J.H.TIETJEN,  
R.J.STONE, W.A.MULLER,  
J.RULLMAN, M.McENERY.  
1970. The cultivation  
and physiological ecology  
of members of salt marsh  
epiphytic communities.  
-Helgoländer wiss.  
Meeresunters. 20 :  
136-156.

LORENZEN, S. 1971.  
*Ixonoma sordidum* gen. n.  
sp. n. (Microlaimidae,  
Nematoda) aus sublitor-  
alem Grobsand bei Helgo-  
land. Mar. Biology 8,  
267-269 .

✓ McINTYRE, A.D. 1971.  
Deficiency of gravity  
corers for sampling  
Meiobenthos and Sediments.  
Nature. 231, 260.

MACK-FIRA, V. 1968.  
*Macrostonum romanicum*  
sp. n., un Turbellariédes  
lacs salés de la Roumanie.  
Lucrarile sesiunii stiinti-  
fice a Statiunii de Cerce-  
tari Marine "Prof. Ioan  
Borcea" Agigea (1 - 2  
noiembrie 1966), 199-202.

MASRY, D. 1970.  
Ecological study of some  
sandy beaches along the  
Israeli mediterranean coast,  
with a description of the  
interstitial Harpacticoids  
(Crustacea, Copepoda).  
Cah. Biol. Mar. XI :  
229-258.

MASRY, D. & F.D.POR. 1970.  
A new species and a new sub-  
species of Mystacocarida  
(Crustacea) from the Medi-  
terranean shores of Israel.  
Israel J. Zool. 19 : 95-103.

NOODT, W. 1970.  
Zur Ökologie der Copepoda  
Harpacticoid des Küstenge-  
botes von Tvärminne  
(Finnland). Acta Zoologica  
128 : 1-35.

PANIKKAR, B.M. & S.RAJAN.  
1970. Observations on the  
ecology of some sandy beaches  
of the southwest coast of  
India. Proc. Indian Acad.  
Sci. Sect. B, 71, 247-260.

PEER, D.L. 1970.  
Relation between Biomass,  
Productivity and loss to  
Predators in a population  
of a marine Benthic Poly-  
chaete *Pectinaria hyperborea*  
J. Fish. Res. Bd. Canada.  
27 : 2143-2153.



- PLATONOVA, T.A. 1970.  
On the taxonomy of the  
family Leptosomatidae  
(Nematoda) from the  
Mediterranean and  
adjacent Atlantic  
waters (russ., engl.  
summary). Zool.  
Zhurn. 59 :  
1298-1305.
- POLLOCK, L.W. 1970.  
Reproductive Anatomy  
of some marine Hetero-  
tardigrada. Trans.  
Amer. Micr. Soc. 89,  
303-316.
- POLLOCK, L.W. 1971.  
On some British Marine  
Tardigrada, including  
two new species of  
Batillipes. J. mar.  
biol. Ass. U.K. 51 :  
93-103.
- POSTMA, H. & J.W.  
ROMMETS. 1970.  
Primary production in  
the Wadden Sea. Neth.  
J. Sea Res. 4,  
470-493.
- RACHOR EIKE. 1971.  
Theristus (Penzancia)  
blandicor (Monhyster-  
ida), eine neue  
Wematodenart aus dem  
Eulitoral der Weser-  
mundung. -Veroff.  
Inst. Meeresforsch.  
Bremerh. 13 : 139-146.
- RENAUD-MORNANT, J. 1970.  
Parastygarctus sterreri  
n. sp. Tardigrade marin  
nouveau de l'Adriatique.  
Cah. Biol. Mar. 11 :  
355-360.
- RENAUD-MORNANT, J. 1971.  
Campagne d'essais du "Jean  
Charcot" (3-8 Décembre  
1968) 7. Meiobenthos I.  
Données générales. Bull.  
Mus. Nat. d'Hist. Nat.,  
2e série, 42, 745-753.
- RIEMANN, F., VON THUN,  
S. LORENZEN. 1971.  
Über den phylogenetischen  
Zusammenhang zwischen  
Desmoscolecidae und Lepto-  
laimidae (freilebende  
Nematoden). Veröff. Inst.  
Meeresforschung Bremerh.  
13 : 147-152.
- ROBAUX, P. 1969.  
Hydrothrombidium cooki  
n.g.n.sp., Acarien phréa-  
tique d'Amerique du Nord  
(Acari, Stygothrombidae).  
Ann. Spéléologie 24 :  
195-223.
- ROBAUX, P. 1969.  
Recherches sur la faune  
interstitielle continentale :  
I. Hygrothrombidium tibio-  
tarsale n.g.n.sp., premier  
Thrombidiidae vrai du  
résau interstitiel des  
cours d'eau des Indes  
(Acari-Thrombidiidae).  
Ann. Speleol. 24, 187-192.

SCHIECKE, U. &  
E. FRISI, 1970.  
A new interstitial  
asellote isopod from the  
island of Ischia (Bay  
of Naples), *Microjanira*  
*dentifrons* n.g.n.sp.  
(Paraselloidea,  
Janiridae). *Crusta-*  
*ceana* 18, 227-232.

SCHMIDT, P. 1970.  
Zonation of the  
interstitial poly-  
chaete *Stygocapit-*  
*ella subterranea*  
(*Stygocapitellidae*)  
in European sandy  
beaches, *Marine*  
*Biology* 7, 319-323.

SCHOCKAERT, E. &  
T.G. KARLING. 1970.  
Three new anatomically  
remarkable Turbellaria  
*Eukalyptorhynchia*  
from the North  
American Pacific  
coast. *Arkiv. f.*  
*Zoologi, Ser.2*, 23,  
237-253.

SHAMIM JAIRAJPURI M.  
1970. Studies on  
Mononchida of India.  
III The Genus *Mylon-*  
*chus* (family *Mylon-*  
*chulidae* Jairajpuri,  
1969). *Nematologica*  
16 : 434-456.

✓ SIDDIQI, I.A. &  
D.R. VIGLIERCHIO. 1970.  
Ultra-structure of photo-  
receptors in the marine-  
nematode *Deontostoma*  
*californicum*. *Journal of*  
*Ultrastructure Research*  
32 : 558-571.

SKOOLMUN U.S. &  
A. GERLACH. 1971.  
Jahreszeitliche Fluk-  
tuationen der Nematoden=  
fauna in Gezeitenbereich  
des Weser-Astuars (Deutsche-  
Bucht). *Veröff. Inst.*  
*Meeresforsch. Bremerh.*  
18 : 119-138.

SKRESLET, S. 1969.  
The ecosystem of the Arctic  
lake Nordlaguna, Jan Mayen  
Island. I. General  
features and hydrography.  
*Astarte* 2 : 27-34.

SKRESLET, S. &  
N. FOGED. 1970.  
The ecosystem of the Arctic  
lake Nordlaguna, Jan Mayen  
Island. II. Plankton and  
benthos. *Astarte* 3 (2) :  
53-61.

SOKOLOVA, M.N. 1970.  
Weight characteristics  
of meiobenthos from  
different parts of the  
deep-sea trophic regions  
of the Pacific Ocean.  
*Okeanologija* 10,  
348-356. In Russian.

STOICOVICI E. &  
M. GOMOIU. 1968.  
Data on the composition  
of sediment from the  
meso-littoral area  
of the Black Sea.  
*Trav. d. Mus. d'Hist.  
Nat. "Grigore Antipa"*,  
8.301-310.

STEELE, J.H., MUNRO, A.S.  
& GIESE, G.S. 1970.  
Environmental factors  
controlling the epi-  
sammic flora on beach  
and sublittoral sand.  
*J. mar. biol. Ass.  
U.K.* 50 : 907-18.

TIETJEN, J.H. 1969.  
Ecology and distri-  
bution of deep-sea meio-  
benthos off North  
Carolina. -Amer.  
*Zoologist.* 9 : 4 p.  
400 only.

TIETJEN, J.H. J.F. LEE,  
J. RULLMAN, A. GREENGART,  
& J. TROMPETER. 1970.  
Gnotobiotic culture and  
physiological ecology of  
the marine nematode  
*Rhabditis marina* Bastian.  
*Limnology and Oceanography*  
15(4) : 535-543.

TILZER, M. 1967.  
Ein neues Gerat zur  
chemischen Probenentnahme  
aus interstitiell-aquati-  
schen Lebensraumen.  
*Gewasser und Abwasser*,  
44/45, 117-120.

TILZER, M. 1968.  
Zur Okologie und Besied-  
lung des hochalpinen hypo-  
rheischen Interstitials im  
Arlberggebiet (Osterreich).  
*Arch. Hydrobiol.* 65 :  
253-308.

TIMM, R.W. 1970.  
A revision of the nematode  
order Desmoscolecida  
Filipjev, 1929. University  
of California Publications  
in Zoology 93 : 1-115.

VAN DER LAND, J. 1970.  
Systematics zoogeography  
and ecology of the Pria-  
pulida. *Zool. Verhand.*  
112 : 1-118.

VITIELLO, P. 1970.  
Nematodes libres marins  
des vases profonds  
du Golfe du Lion. II.  
Chromadorida Tethys 2 :  
449-500.

VITIELLO, P. 1971.  
Nematodes libres marins  
des vases profonds  
du Golfe du Lion. III.  
Monhysteria, Araoelaini-  
dae Desmoderidae.  
Tethys. 2 : 647-690.

WARWICK, R.M. 1971.  
The Cyatholaimidae  
(Nematoda, Chromador-  
oidea) off the coast  
of Northumberland.  
Cah. Biol. Mar. 12 :  
95-110.

WARWICK, R.M. 1971.  
Nematode associations  
in the Euxine estuary.  
J. mar. biol. Ass.  
U.K. 51 : 439-454.

WARWICK, R.M. &  
BUCHANAN, J.B. 1971.  
The meiofauna off the  
coast of Northumber-  
land. II. Seasonal  
stability of the  
nematode population.  
J. mar. biol. Ass.  
U.K. 51 : 355-362.

WEIGMANN, G. &  
H.K.SCHMINKE. 1970.  
Wandesia glareosa n.sp.,  
eine Grundwassermilbe  
aus Australien (Acari,  
Hydrachnellae). Arch.  
Hydrabi. 67, 268-275.

WESTHEIDE, W. 1970.  
Zur Organisation, Biologie  
und Ökologie des Inter-  
stitiellen Polychaeten  
Hesionides gehari  
Hartmann-Schroeder  
(Hesionidae). Mikro-  
fauna des Meeresbodens ✓  
3 : 1-37.

WESTHEIDE, W. 1971.  
Apharynetus punicus n. v.  
gen. n. v. spec. ein  
aberranter Archiannelide  
aus dem Mesopsammal der  
tunesischen Mittelmeer-  
küste. Mikrofauna des  
Meeresbodens 6 : 1-

WILSON, M.S. 1971.  
North American Harpacti-  
cid Copepods a. A  
new Mesochra (Canthocam-  
ptidae) from the Gulf of  
Mexico with notes on a  
related Mediterranean  
form. Proc. Biol. Soc.  
Wash. 83 : 483-92.