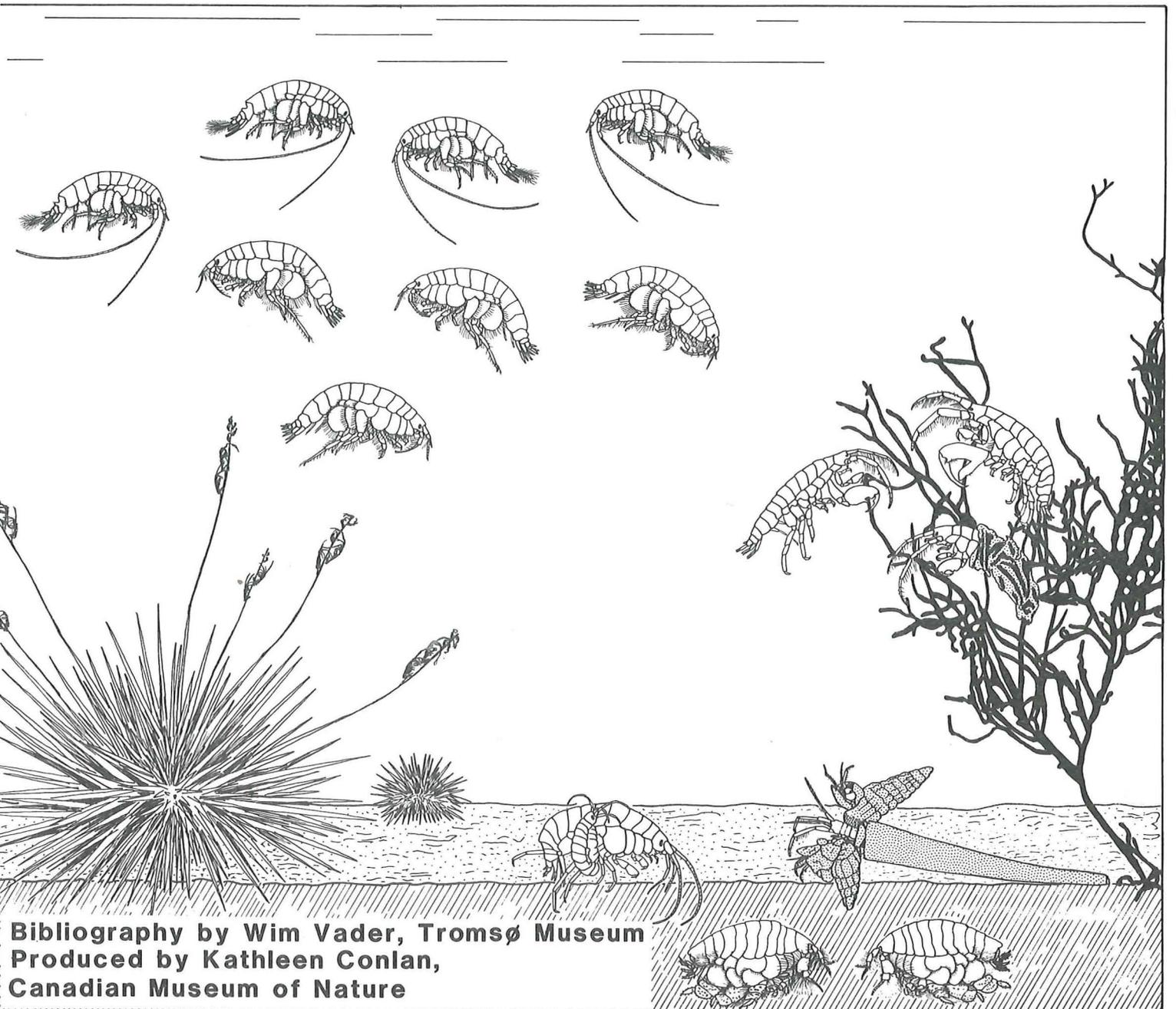


AMPHIPOD NEWSLETTER

17



Bibliography by Wim Vader, Tromsø Museum
Produced by Kathleen Conlan,
Canadian Museum of Nature

THE AMPHIPOD NEWSLETTER: WORTH SAVING?

The Amphipod Newsletter has appeared in 16 issues between 1972 and 1986, with first Wim Vader and later Les Watling as editors. Unfortunately, Les has gotten increasingly occupied with other commitments in later years, and AN16 in 1986 has been the last issue to come out. In 1988 editorship was transferred to another colleague, without visible results.

In 1989 Wim Vader took an initiative to revive his brainchild, and got positive reactions from most regional editors, from the Maine conference and from British amphipodologists, polled by Mike Thurston. It was therefore decided to try to bring out AN17 and 18 as quickly as possible, with Kathleen Conlan, Jim Lowry, and Wim Vader as editorial committee. AN17, produced in Ottawa, contains mainly the usual annotated bibliography of amphipod literature, collated by Wim, as well as a questionnaire asking our subscribers once more what exactly they expect to get from AN, what they themselves will be able to contribute to it, and how much they are willing to pay for it. We also ask for correct addresses, and for names and addresses of colleagues that may be interested in receiving AN.

AN18 will be produced in Sydney in November 1990 and will mainly consist of the Index to AN11-17, prepared by Wim Vader and George Crawford. On receipt of the questionnaire we will be able to announce more definite plans for the future of the Amphipod Newsletter, and where and by whom it will be edited and produced.

The present transition has unfortunately not gone completely smoothly. This has resulted in some gaps in the bibliography, especially for 1986 and 1987, and the use of a number of obsolete addresses. We hope to be able to rectify these weaknesses in AN18.

We shall probably be able to produce and send out AN17 and 18 with existing funds, but we shall need more money in 1991.

**Wim Vader
**Ottawa, July 1990

QUESTIONNAIRE

The questionnaire that you received with this issue is meant to provide the editors with four types of information:

1. Do you still want to receive AN, and is your address correct?
2. Do you know of colleagues who may be interested in AN, but do not presently receive it (see list of subscribers in AN16)? Please send us their names and addresses, and we will send them AN17, with this questionnaire, free.
3. What can AN do for you? Is the mix of subjects the right one, does the bibliography satisfy your needs, is your particular field of research suitably covered, etc. etc.?
4. What can you do for AN? Take the subscription, of course, but there is more to it than that. Do you send us your reprints for inclusion in the bibliography, do you contribute to 'News from colleagues', do you help to fill the obvious gaps in the bibliography compiler's access to the literature (speleology, genetics, French and South American journals, Russian literature)?

Please take the time to fill in this questionnaire. It will be of enormous help in charting the waters ahead and finding a crew that can keep AN afloat.

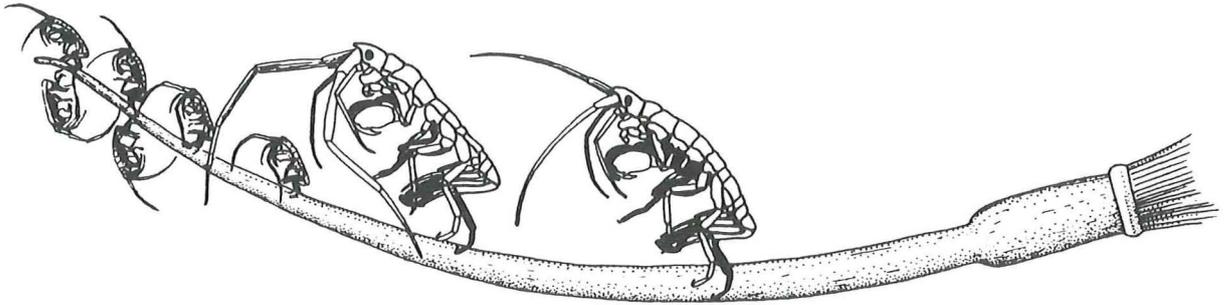
**Wim Vader

ABOUT THE COVER

The cover to AN17 was illustrated by Susan Laurie-Bourque, who has produced many of the amphipod illustrations for Dr. Bousfield and myself over the last 10 years. Susan is a freelance scientific illustrator who works with invertebrates, plants, fishes, mammals, and various ecological themes. The cover illustrates some mating behaviors exhibited by amphipods. On the front cover, left to right, are free swimming male and female Rhepoxynius (males have the longer antennae), who have left the sediment to mate-search in the water column. On the sediment a small male Crangonyx is copulating with a recently molted female. Within the sediment, the two sexes of Eohaustorius are meeting. To the far right a male Rhinoecetes is ensuring his parentage by glueing his mates by their shells to his own. In the algae, a "major form" male Jassa, who is attending a female in her tube, is confronted by a "minor form" male, who may be acting as a sneak or satellite. Not so easily visible on the front cover, but magnified below, is a female Dulichia rhabdoplastis on her rod, which she has accreted to the tip of a spine of Strongylocentrotus franciscanus. She is being attended (and defended) by a male until she molts, at which time her cuticle will be sufficiently flexible for her to ovulate and her eggs be fertilized. The rod is still occupied by the offspring of her previous mating.

On the back cover, at the left, is a large male Orchestia who has grasped a recently molted female and has dragged her under cover to mate with her. Further to the right is a large male Gammarus guarding his mate by carrying her until she molts. The male Amphithoe in the alga is also waiting for his mate to molt, and is guarding her in her tube. At the far right a male Paramoera is copulating with a female. Unlike the males exhibited to the left, there is little appendage enlargement in males of Paramoera, suggesting that mate-guarding and defence is limited.

**Kathleen Conlan



Vllth INTERNATIONAL COLLOQUIUM ON AMPHIPODA

The Vllth International Colloquium on Amphipoda was hosted by Les Watling on September 14-16, 1989. There were 42 registered participants and 33 papers were given. These papers will be published in the journal Hydrobiologia. The setting for the meeting was the beautiful, spacious grounds of the Darling Marine Center at Walpole, Maine. Participants were treated to an all-you-can eat lobster and clam bake, tours of local villages, and a post-conference day trip to Monhegan Island for birding, seal watching, and (of course) hopper collecting. Thank you, Les and staff for all your efforts to collect and deliver weary colleagues at odd hours and provide us with a stimulating and most pleasant meeting.

Papers presented

- Marsden, I. A comparison of water loss and gill areas in two supralittoral amphipods from New Zealand.
- Vassilenko, S. Ecologo-physiological characteristics of common caprellid species of the Japan Sea.
- Takeuchi, I. & R. Hirano. Clinging behavior of the Caprellidea (Crustacea, Amphipoda) inhabiting the Sargassum zone.
- Thomas, J. Ecology and phylogeny of commensal amphipods -- Anamixidae.
- Richardson, A. & R. Swain. Zonation of terrestrial amphipods in maritime western Tasmania.
- Haley, C. & A. Buikema. The role of the amphipod, Gammarus minus, in the food webs of two Virginia streams.
- Meijering, M.P.D. Low pH and lack of oxygen as limiting factors for Gammarus in hessian brooks and streams.
- Brunel, P. & J.C. Dauvin. Gammaridean recovery in a disturbed suprabenthic sublittoral community from the Lower St. Lawrence estuary.
- Chevrier, A. & P. Brunel. Seasonal and daily densities of suprabenthic Gammaridea over a deep soft bottom in the Bay of Fundy.
- Jazdzewski, K., A. Konopacka & S. Rakusa-Suszczewski. Notes on the biology of some Antarctic peracarids (Amphipoda and Isopoda).
- Jazdzewski, K. & W. Teodorczyk. Amphipod crustaceans as an important component of zoobenthos of the shallow Antarctic sublittoral.
- Quigley, M. & H.A. Vanderploeg. Feeding ecology of the Great Lakes amphipod, Pontoporeia hoyi.
- Jones, A. Patterns of abundance of intertidal exoedicerotid amphipods near Sydney, Australia.
- Stock, J. Distribution of anchialine amphipods.
- Krapp-Schickel, T. Comparative ecology of marine Mediterranean and Indonesian amphipods.
- Bhat, U.G. & K. Vamsee. Toxicity of mercury on a gammarid amphipod Corophium sp. from the Karwar region, central west coast of India.
- Conlan, K. Sexual dimorphism and mating behaviour of amphipods.
- Aoki, M. Reproductive characteristics of Sargassum bed caprellids in Amakusa, Kyushu, Japan.
- Gonzalez, E. Actual state of the Amphipoda taxonomy in Chile.
- Wakabara, Y., F.P. Leite, A.S. Tararam, M.T. Valerio-Berardo & W. Duleba. Gammaridean and caprellidean fauna from Brazil.
- Lowry, J.K. & H.E. Stoddart. Phylogenetic relationships within the Lysianassidae, sensu stricto.
- Chapman, J. The possible contribution of human introductions to the tropical Pacific dispersions of gammaridean amphipods.
- Holsinger, John R. What can vicariance biogeography models tell us about the distributional history of subterranean amphipods?
- Vonk, R. Some zoogeographic remarks on Ingolfiellidea from the Canary Islands.
- Takeuchi, I. & Shin-ichi Ishimaru. First record of Caprogammarus (Crustacea, Amphipoda) from Hokkaido, Japan.
- Wildish, D.J. & B. Frost. Volumetric growth in gammaridean Amphipoda.

Bousfield, E.L. Convergent morphologies in sand-burrowing members of phyletically unrelated gammaridean superfamilies.
 Oshel, P.E. SEM studies on Macrohectopis branickii from Lake Baikal.
 Boudrias, M. Turning and stopping in swimming amphipods.
 Steele, V.J. The structure and distribution of the type II microtrichs in selected gammaridean amphipods.
 Fong, D. Optic structures of Gammarus minus: comparison between spring and cave populations.
 Coleman, O. Comparative fore-gut morphology of Antarctic amphipods adapted to different food sources.
 Steele, D.H. Is oostegite structure related to ecology or phylogeny?

**Kathleen Conlan

PROFILE OF THE CRUSTACEAN SECTION OF THE CANADIAN MUSEUM OF NATURE

Just as the Canadian Museum of Nature has changed its name - from the National Museum of Natural Sciences, National Museums of Canada - so has the Crustacean Section changed its composition since we last reported on our activities. Ed Bousfield has left us for the more salubrious climate of the Pacific Coast, though he continues to drop in fairly regularly in his ongoing production of revisions to the Pacific coast amphipods.

Chang-tai (Mark) Shih is working on three major hyperiid projects. In collaboration with Dr. H.-E. Gruner, the hyperiid volume of Crustaceorum Catalogus is underway; this has been delayed due to the appointment of HEG to the directorship of the Humboldt University Museum. Significant changes have been made to the format of this volume which will reduce costs and increase accessibility. With Professor Chen Qing-chao, Mark is working on the Hyperiidea of the South China Sea, ultimately to produce a volume in the Fauna Sinica series. Lastly, Mark is reviewing and revising the family Phronimidae, and has already come up with two new species. In his spare time, Mark works on Copepoda: current and future projects include taxonomic reviews of the families of marine Calanoida of Canada, and a survey of the freshwater copepods west of the Rockies.

Diana Laubitz is the Head of the section and tries to protect the others from excessive bureaucratic interference. In between whiles, she is hoping to be able to complete a review of all caprellid genera, and go on to do a revision based on newly discovered or overlooked characters. As a result, she hopes that identification of caprellids will be simplified, and the current proliferation of monotypic genera will be reduced. Future plans include a review of Cyamidae in Canadian waters, with Leo Margolis.

Kathy Conlan is our newest staff member, and is still in the enviable position of establishing her research programs and deciding which of the many fascinating aspects of amphipods she will investigate. Current projects include reproductive biology, particularly mating behaviour in local freshwater gammarids; behaviour of rod-building Podoceridae; effects of iceberg scour, both on behaviour of local scavenging and predatory amphipods and on benthos energetics. Other projects have been or will be: deepwater surveys on the Pacific Coast; the Exxon Valdez Spring (1990) Shoreline Assessment; Antarctic field work; and, of course, this volume of AN.

As a change from amphipods, we have Fahmida Rafi to look after our isopod problems. She is currently describing a new species of the hyperparasitic genus Lirioipsis from the Pacific coast, and is starting a revision of the genus Edotia. A major paper revising the Idoteidae of the Canadian Pacific is in press. Fahmida also works on Tanaidacea and Cumacea.

You are reminded that we have an excellent amphipod collection, as well as extensive material of Canadian crustaceans. We welcome research on our collections, either in house or through loans.

**Diana Laubitz

VISITING FELLOWSHIPS AT THE CANADIAN MUSEUM OF NATURE

Visiting Fellowships

The Canadian Museum of Nature offers visiting fellowships to both Canadians and non-Canadians. Applicants should hold a doctorate not more than five years prior to the date of application. Applicants who hold a master's degree obtained within the past eight years and who have at least three years of scientific experience beyond this degree conducting independent research may also be eligible. Applications are also accepted for doctoral graduates who withdrew from active research for the purpose of child bearing and rearing. The fellowships have an annual value of \$32,239, and are subject to Canadian income tax. Fellows will be provided with an allowance towards the cost of travel between the place of residence at the time the award is made and the Canadian Museum of Nature. Spouses and children are eligible to receive additional indemnity. Similar allowances will be provided for the return journey upon termination of the fellowship. The travel allowance is also considered a taxable benefit. Fellows are provided with office space, microscopes, a PC, secretarial service, and some research assistance. Appointments are for one year and renewable for a second year.

The Canadian Museum of Nature has a staff of 200 comprising Collections and Research, Public Programming, and administrative sections. There are 36 research scientists and 49 support staff working in the fields of zoology, botany, paleobiology, and mineral sciences. The Canadian Museum of Nature is situated in Ottawa, the capital of Canada. Metropolitan Ottawa has a population of 500,000. It is located at the junction of the Ottawa, Rideau, and Gatineau Rivers, within a day's drive of Montreal, Toronto, Quebec City, and the northeastern U.S. Ottawa has two universities and numerous government labs.

For more information and applications, please write to:

Visiting Fellowships Office
Natural Sciences and Engineering Research Council
200 Kent Street
Ottawa, Canada
K1A 1H5

and also to:

Assistant Director, Collections and Research
Canadian Museum of Nature
P.O. Box 3443, Stn. D
Ottawa, Canada
K1P 6P4

ACKNOWLEDGEMENTS

Part of the budget that comes from fees for receipt of the Amphipod Newsletter was used for typing and printing of AN17 and production of the mailing labels. I would like to acknowledge the support of the Canadian Museum of Nature for providing envelopes, paying mailing costs, and providing the services of Elemae Lashley who inputted nearly 700 references. As well, the Museum allowed me to set aside my own research program to produce this newsletter, which was a considerably greater time investment than I had anticipated.

**Kathleen Conlan

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This bibliography is set up along the usual AN lines, but because of its long gestation period and my pre-technological background, it is split up in five different parts. There will probably be a gap in the coverage of 1985-87 papers, as I have not yet been able to retrieve what I have sent to previous AN editors, and we had a major computer breakdown in Tromsø in 1988. I hope to be able to supply the missing parts by AN18 or 19.

I am most grateful to all colleagues who sent me reprints of their work. Special thanks, as always, to Jan Stock, who has continued to supply me with lists of references, even during the 'drought' of 1986-1990.

**Wim Vader

OBTAINING THE BIBLIOGRAPHY ON DISKETTE

If you would like a copy of this bibliography for word searches or to add to your reference file, I will copy it for you on Wordperfect 5.1 or in ASCII format, provided that you send me two 5.25 inch double density or one 5.25 inch high density or one 3.50 inch diskette. All diskettes will be formatted in MS-DOS; ASCII files will not have underlines. Please send to:

Dr. Kathleen Conlan
Zoology Division
Canadian Museum of Nature
P.O. Box 3443, stn. D
Ottawa, Ontario K1P 6P4
Canada
(tel. (613) 954-7677)
(fax (613) 954-6439)

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- (for *Metopella dubia* (type), *M. brazhnikovi*, *M. schellenbergi*, *M. shoemakeri* and *M. zernovi*), and *Zaikometopa* n. gen. (for *Metopelloides erythrophthalmus*). Finally, in the Temnophliantidae, *Hystriphlias* n. gen. is erected for *Temnophlias hystrix*.
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- KARAMAN, G.S., 1987. Two new species of genus Harpinia Boeck (fam. Phoxocephalidae) from the Mediterranean Sea. (Contribution to the knowledge of the Amphipoda 163). ____ Acta adriat. 28, 103-119 (H. agna n. sp. and H. zavodniki n. sp., both from the Bay of Naples).
- KARAMAN, G.S., 1987. Two new species of family Gammaridae from Tunisia and Madagascar (Contribution to the knowledge of the Amphipoda 164). ____ Poljoprivreda i Sumarstvo 35, 17-38. (Echinogammarus dactylus n. sp. from springs in Tunisia, Gammarus ledoyeri n. sp. from deep water off Madagascar. The author reiterates his view that no consistent differences exist between the genera Gammarus and Echinogammarus).
- KARAMAN, G.S., 1987. Taxonomical investigation of the genus Harpinia Boeck in the Mediterranean Sea (fam. Phoxocephalidae) (Contribution to the knowledge of the Amphipoda 165). ____ Poljoprivreda i Sumarstvo 33, 13-44. (H. ala n. sp. is described from the Gulf of Naples. A key to all Mediterranean Harpinia is provided, and H. antennaria, H. crenulata, H. dellavallei, H. pectinata and H. truncata redescribed from Mediterranean material).
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- LEE, K.S., 1986. Systematic study of Amphipoda (Crustacea) in Korea. 5. Descriptions of one hitherto unrecorded species and two known species from Korean waters. ____ Korean J. Zool. 29, 159-164. (Three *Caprella* spp. Not seen).
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- MOORE, P.G., 1988. New and little-known Amphipoda (Crustacea) from Tasmania and Western Australia. ___ J. nat. Hist. 22, 149-174. (Describes Amphilochus rupertii n. sp., Ceradocopsis hamondi n. sp. and Gammaropsis insignis n. sp., all from Tasmanian algal habitats. Photis dolichommata, and Parawaldeckia yamba are redescribed. Yulumara tricuspis n. sp. was collected from seagrasses in Western Australia).
- MOORE, P.G., 1988. Taxonomic observations on the genera Xenocheira Haswell and Ericthonius Milne Edwards (Crustacea: Amphipoda) from Australian coastal waters. ___ J. nat. Hist. 22, 705-732. (Xenocheira fasciata is redescribed from Tasmanian specimens. Material from W. Australia is tentatively identified as X. seurati, while Pirlo's male 'X. fasciata' from the Aru Islands represents a third species, X. pirloti n. sp. (erroneously 'nom. nov.' in paper). In the genus Ericthonius 2 new spp. are described, E. tacitus n. sp. from Tasmania and E. coxacanthus n. sp. from W. Australia. Also E. pugnax is redescribed and illustrated.
- MOORE, P.G. & P.J. SCHEMBRI, 1986. Notes concerning the semi-terrestrial and freshwater amphipods (Crustacea: Peracarida) of the Maltese Islands. ___ Animalia, Catania 13, 65-75. (Five talitrids and 4 gammarids, with a nice survey of the habitats on the islands.
- MORINO, H., 1986. A new species of the subgenus Annanogammarus (Amphipoda: Anisogammaridae) from Lake Suwa, Japan. ___ Publ. Itako hydrobiol. Stn 3, 1-11. (Jesogammarus (A.) suwaensis n. sp.)
- MORINO, H. & H. MIYAMOTO, 1988. Redefinition of Talorchestia (Amphipoda: Talitridae) with description of a new species from the tropical West Pacific. ___ J. crust. Res. 8, 91-98. (The genus Talorchestia is restricted to T. gracilis (type), T. spinipalma, T. martensii, and T. palawanensis n. sp. from the Philippine Islands. T. spinipalma is redescribed).
- MORRIS, R.J., A.P.M. LOCKWOOD, D. DYBALL & S.R.L. BOLT, 1987. Changes in the fatty acid composition of the gill phospholipids in Gammarus duebeni during molt: Evidence for reduced permeability of the gill membrane. ___ Comp. Biochem. Physiol. B 88, 257-260. (Not seen)
- MORRISEY, D.J., 1988. Differences in effects of grazing by deposit-feeders Hydrobia ulvae (Pennant) (Gastropoda: Prosobranchia) and Corophium arenarium Crawford (Amphipoda) on sediment microalgal populations. 1. Qualitative differences. ___ J. exp. mar. Biol. Ecol. 118, 33-42.
- MORRISEY, D.J., 1988. Differences in effects of grazing by deposit-feeders Hydrobia ulvae (Pennant) (Gastropoda: Prosobranchia) and Corophium arenarium Crawford (Amphipoda) on sediment microalgal populations. 2. Quantitative differences. ___ J. exp. mar. Biol. Ecol. 118, 43-53.
- MUSKO, I.B., 1988. Ultrastructure of the midgut gland of Gammarus roeselii Gervais (Amphipoda, Gammaridea). ___ Crustaceana 54, 207-217.
- MYERS, A.A., 1988. A cladistic and biogeographic analysis of the Aorinae subfam. nov. ___ Crustaceana, Suppl. 13, 167-193. (In this important paper, the new subfamily Aorinae has the following composition: Aora (A. typica + 13), Aorella (A. multiplex), Aoroides (A. columbiae + 6), Autonoe (A. longipes + 11), Bemlos (B. macromanus + 34), Columbaora (C. cyclocoxa), Globosolembos (G. smithi + 7), Lemboides (L. afer + 1), Meridirolembos n. gen. (Lembos hippocrenes further spp. L. acherontis, L. pertinax), Microdeutopus (M. gryllotalpa + 11), Paramicrodeutopus n. gen. (Microdeutopus schmitti, further spp. M. hancocki, M. myersi & M. trichopus), Plesiolembos n. gen. (Lembos rectangulatus (with L. habanensis as synonym)), further sp. L. ovalipes), Protolembos n. gen. (Lembos chiltoni, further spp. L. kidolji and L. philacanthus), and Tethylembos n. gen. (Lembos viquieri). Lemboides caecus and Microdeutopus thumbellinus are removed to the Neomegamphopidae. The new genus Australomicrodeutopus n. gen. (Microdeutopus haswelli, further sp. M. apopo) is an aorid, but not in the subfamily Aorinae).

- NAGATA, K., 1986. Amphipod crustaceans found near Syowa Station, Antarctica (1). ____ Mems. natn. Inst. polar Res., spec. Issue 40, 249-258. (Deals with Orchomene rossi, O. plebs, Uristes murrayi and Waldeckia obesa)
- NAGATA, K., 1986. Amphipod crustaceans from surface waters of the southern Ocean during 1983-84 summer. ____ Mems. natn. Inst. pol. Res., spec. Issue 40, 259-276. (Deals with Eusirus microps, Paramoera walkeri, Vibilia stebbingi and Hyperietta antarctica).
- NESIS, K.N., 1986. (An amphipod which pretends to be the eggs of its prey). Priroda, Moskva 1986 (4), 112. (In Russian. Tells the story of Paracyphocaris praedator as found by Bowman & Wassmer).
- NOTENBOOM, J., 1987. Species of the genus Pseudoniphargus Chevreux, 1901 (Amphipoda) from the Betic Cordillera of southern Spain. ____ Bijdr. Dierk. 57, 87-150. (This important study describes and illustrates P. branchiatus, P. nevadensis n. sp. (Granada), P. granadensis n. sp. (Granada), P. grandis n. sp. (Malaga), P. affinis n. sp. (Granada), P. stocki n. sp. (Malaga), P. vomeratus n. sp. (Jaen), P. illustris n. sp. (Jaen), P. margalefi n. sp. (Alicante), P. cazorlai n. sp. (Jaen), P. latipes n. sp. (Jaen), P. gracilis n. sp. (Almeria), P. sorbasiensis n. sp. (Almeria), P. sp. 2, P. fragilis n. sp. (Malaga), P. gibraltarius n. sp. (Cadiz) and P. ssp 3, 4 and 5).
- NOTENBOOM, J., 1987. Lusitanian species of the amphipod Pseudoniphargus, 1901, with a key to all known Iberian species. ____ Bijdr. Dierk. 57, 191-206. (Describes and illustrates P. calliaicus n. sp. (La Coruna, Spain), P. mateusorum and P. brevipedunculatus).
- NOTENBOOM, J., 1988. Parapseudoniphargus baetis, new genus, new species, a stygobiont amphipod crustacean from the Guadalquivir river basin (Southern Spain), with phylogenetic implications. ____ J. crust. Biol. 8, 110-121. (With a discussion of the phylogenetic position of Pseudoniphargus, a close relative of the new genus).
- NOTENBOOM, J., 1988. Biogeographical observations on the genera of Iberian stygobiont Amphipoda. ____ Crustaceana, Suppl. 13, 122-133.
- ORMEROD, S.J. & S.J. TYLER, 1988. The diet of Green Sandpipers Tringa ochropus in contrasting areas of their winter range. ____ Bird Study 35, 25-30. (Gammarus locally important).
- ORTIZ, M. & T. VELEDO, 1985. (A new species of amphipod of the genus Garosyrhoe (Synopiidae, Gammaridea) from Cuban waters). ____ Rev. Invest. mar. 6 (1), 14-18. (In Spanish; G. luquei n. sp.).
- OSHEL, P.E. & D.H. STEELE, 1988. Comparative morphology of amphipod setae, and a proposed classification of setal types. ____ Crustaceana Suppl. 13, 90-99.
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- OSHEL, P.E., V.J. STEELE & D.H. STEELE, 1988. Comparative SEM morphology of amphipod microtrich sensilla. ____ Crustaceana, Suppl. 13, 100-106.
- PEARSON, R.G. & N.V. JONES, 1987. Short-term movements of chalk stream invertebrates. ____ Freshw. Biol. 18, 559-568. (Many data on Gammarus pulex).
- PECK, S.B. 1988. A review of the cave fauna of Canada, and the composition and ecology of the invertebrate fauna of caves and mines in Ontario. ____ Can. J. Zool. 66, 1197-1213.
- PIEPENBURG, D., 1988. Zur Zusammensetzung der Bodenfauna in der westlichen Fram-Strasze. ____ Ber. Polarforsch. 52, 1-118. (Amph. p. 43).
- PINKSTER, S., 1988. Problems in the taxonomy of the freshwater gammarids with special emphasis on the genus Echinogammarus in Italy. ____ Crustaceana, Suppl. 13, 245-255. (A cautionary tale, in which the author convincingly demonstrates seasonal differences in morphology in freshwater amphipods. As one result, E. bolo and E. roco turn out to be junior synonyms of E. tibaldii. Pinkster closes his paper with an urgent plea 'not to describe new species on the basis of occasional samples', a procedure of very common occurrence hitherto).
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- RAGA, J.A., 1988. On some morphological variations of Syncyamus aequus Lincoln & Hurley, 1981 (Amphipoda, Cyamidae) from the Mediterranean Sea. ____ Crustaceana 54, 149-152. (Material from Stenella coerulealba).
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- ROSILLON, D., 1987. About the separation of benthos from stream samples. ____ Arch. Hydrobiol. 110, 469-476.
- RUFFO, S., 1987. (Studies on amphipod crustaceans 103. The Mediterranean species of Lysianassa H. Milne-Edwards, 1830 and description of Pardia, new genus (Crustacea, Amphipoda, Lysianassidae). ____ Monit. zool. ital., Suppl. 32, 31-58. (In Italian. Pardia n. gen. is erected for Callisoma punctatum; this species is for the first time reported from outside the Mediterranean, viz. from Senegal. Lysianassa caesarea n. sp. is described from the Mediterranean coast of Israel. Descriptions and illustrations are also provided of L. longicornis apparently a Med. endemic), L. pilicornis and L. insperata (new to the Mediterranean). A key to Mediterranean Pardia and Lysianassa spp. concludes this useful paper).
- RUSSO, A.R., 1987. Role of habitat complexity in mediating predation by the gray damselfish Abudefduf sordidus on epiphytal amphipods. ____ Mar. Ecol. Progr. Ser. 36, 101-105.
- RYER, C.H., 1988. Pipefish foraging: effects of fish size, prey size and altered habitat complexity. ____ Mar. Ecol. Progr. Ser. 48, 37-45. (Syngnathus fuscus, a predator of amphipods in Zostera meadows).
- SABATER, F., 1988. (Some interstitial species of the crustacean communities of the Ter and Ebro river mouths (northeastern Spain). ____ Misc. Zool. 10 (1986), 113-120. (In Spanish, not seen; i.a. two amphipod spp.)
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- SALMAN, S.D., 1985. Stenothoe irakiensis, a new species of stenothoid amphipod from the Arabian Gulf. ____ Crustaceana 49, 244-250.
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- SCHEEPMAKER, M., 1987. Morphological and genetic differentiation of Gammarus stupendus Pinkster, 1983 in the Massif de la Sainte Baume, France. ____ Bijdr. Dierk. 57, 1-18.
- SCHODEL, H., 1986. Epizoische Einzeller auf Flohkrebse. 3. Besiedler der Coxalplatten und der Mundwerkzeuge. ____ Mikrokosmos 75, 5-11.
- SCHRAMM, H.L., K. J. JIRKA & M.V. HOYER, 1987. Epiphytic macroinvertebrates on dominant macrophytes in two central Florida lakes. ____ J. Freshw. Ecol. 4, 151-162.
- SCHUCHARDT, B., U. HÄSLOOP & M. SCHIRMER, 1987. (On the distribution of Gammarus tigrinus Sexton in the lower Weser (West Germany)). ____ Drosera 87, 129-134. (In German, not seen).
- SCONFIETTI, R., 1982. (Record of Elasmopus pecteniscus (Bate) (Crustacea, Amphipoda) in the Lagoon of Venice (Italy)). ____ Boll. Mus. Civ. Stor. Nat. Venezia 33(1981), 91-92. (In Italian, not seen).
- SEBASTIEN, R.J., D.M. ROSENBERG & A. P. WIENS, 1988. A method for subsampling unsorted benthic macroinvertebrates by weight. ____ Hydrobiologia 157, 69-75. (Not seen).
- SELDEN, P.A., 1986. A new identity for the Silurian arthropod Necrogammarus. ____ Palaeontology 29, 629-631. (Not seen).
- SHANKS, A.L. & W.G. WRIGHT, 1987. Internal-wave-mediated shoreward transport of cyprids, megalopae and gammarids, and correlated longshore differences in the settling rate of intertidal barnacles. ____ J. exp. mar. Biol. Ecol. 114, 1-14.
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- SKALSKI, A.W., 1988. Redescription of Synurella ambulans ssp. tenebrarum (Wrzesniowski, 1888), status n., with notes on its relatives. ____ Crustaceana, Suppl. 13, 220-237. (A redescription of Boruta tenebrarum, here considered a valid subspecies of Synurella ambulans. Also S. intermedia montenigrina is transferred to S. ambulans as a valid subspecies).

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- SMITH, D.G., 1987. The genus Synurella in New England (Amphipoda, Crangonyctidae). ____ Crustaceana **53**, 304-306.
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- SPICER, J.I. & A.C. TAYLOR, 1987. Carbon dioxide transport and acid-base regulation in the blood of the beach-hopper Orchestia gammarellus (Pallas) (Crustacea: Amphipoda). ____ Ophelia **28**, 49-61.
- STATZNER, B., 1987. Growth and Reynolds number of lotic macroinvertebrates: a problem for adaptation of shape to drag. ____ Oikos **51**, 84-87.
- STAUDE, C.P., 1987. Suborder Gammaridea. ____ Pp. 346-391 in E.N. Kozloff (ed.). Marine Invertebrates of the Pacific Northwest. Univ. Washington Press, Seattle & London, 509 pp. (A fine set of keys, and an annotated checklist).
- STEELE, D.H., 1988. What is the amphipod life style? ____ Crustaceana. Suppl. **13**, 134-142. ('Amphipods are clinging aquatic animals whose primary locomotion is by swimming'. A very important paper!)
- STOCK, J.H., 1987. Stygofauna of the Canary Islands, 5. A hypogean population of Parhyale (Amphipoda) in the Jameodel Agua lava tunnel (Lanzarote), a supposed case of recent evolution. ____ Stygologia **3**, 167-184. (The Lanzarotan material belongs to the P. hawaiiensis complex, but is here described as a new species, P. multispinosa n. sp. Material of P. hawaiiensis from the West Indies, Hawaii and La Palma (intertidal, first record for Canary Islands) is also described. The type material of P. injacka K.H. Bnd also belongs to P. hawaiiensis).
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- STOCK, J.H., 1988. Stygofauna of the Canary Islands. 6. A new Rhipidogammarus (Crustacea: Amphipoda) from Tenerife: first record of the genus outside the Mediterranean region and its biogeographic implications. ____ Hydrobiologia **169**, 279- 292. (R. nivariae n. sp. from Tenerife).
- STOCK, J.H., 1988. Stygofauna of the Canary Islands. 8. Amphipoda (Crustacea) from inland groundwaters of Fuerteventura. ____ Bull. zool. Mus. A'dam **11**, 105-113. (Bogidiella (Stygogidiella) purpuriae n. sp., and Pygocrangonyx repens).
- STOCK, J.H., 1988. Two new stygobiont Amphipoda (Crustacea) from Polynesia. ____ Stygologia **4**, 79-100. (Fiha schminkei n. gen., n. sp., (Melitidae, Psammoniphargus - group) is described from riverbank-interstitial in Fiji, and Josephosella hamata n. sp. from a marine cave on the Tonga islands. The preoccupied genus name Quadrus in the same species group is replaced by Sriha n. nom. (Melitidae)).
- STOCK, J.H. & T.M. ILIFFE, 1987. The status of Bogidiella balearica Dancau, 1973, a stygobiont amphipod from Madeira ____ Endins **13**, 39-46. ('A good species', clearly different from B. (Meta)gidiella chappuisi, and belonging to the subgenus Bogidiella s. str.).
- STOCK, J.H. & J.L. MARTIN, 1988. A new cavehopper (Amphipoda: Talitridae) from lava tubes in La Palma, Canary Islands. ____ J. nat. Hist. **22**, 1121-1133. (Palmorchestia hypogaea n. gen., n. sp. from lava caves on La Palma).
- STOCK, J.H. & J. NOTENBOOM, 1988. Five new bogidiellid Amphipoda from Spain - the first freshwater records in the Iberian peninsula. ____ Hydrobiologia **164**, 75-95. (Bogidiella (B.) hispanica n. sp. (prov. Cuenca), B. (B.) glabra n. sp. (prov. Cuenca), B. (B.) convexa n. sp. (prov. Madrid), B. (Medigidiella) uncinata n. sp. (prov. Valencia), and B. (M.) antennata n. sp. (prov. Valencia). A key to Iberian Bogidiella is provided).
- STOCK, J.H. & B.L.M. RONDÉ-BROEKHUIZEN, 1987. Stygofauna of the Canary Islands, 3. The genus Bogidiella (Crustacea, Amphipoda). ____ Rev. Zool. afr. **101**, 439-461. (Deals with B. (Xystrigidiella) spathulata n. sp., B. (Stygogidiella) uniramosa n. sp. and Bogidiella sp.).
- STOCK, J.H. & E. SANCHEZ, 1987. Stygofauna of the Canary Islands 7. Psammogammarus initialis n. sp. a new mediolittoral interstitial amphipod crustacean from Tenerife. ____ Stygologia **3**, 264-277. (In a discussion of generic taxonomy, Roropisa is re-united with Victoriopisa, and Confodiopisa, Flagitopisa and Impertiopisa all with Psammogammarus. A key to all Psammogammarus (s.l.) species is provided).
- STORCH, V. & P. BURKHARDT, 1986. (The response of the midgut glands of Orchestia cavimana to different foods). ____ Carolina **44**, 149-152. (In German, not seen).
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- TARAMELLI, E. & L. VENANZANGELL, 1988. Amphipoda of Torvaldaliga (Civitavecchia - Roma). ____ Crustaceana, Suppl. **13**, 283. (Abstract only).
- TEDENGREN, M., M. ARNÉR & N. KAUTSKY, 1988. Ecophysiology and stress response of marine and brackish water Gammarus species (Crustacea, Amphipoda) to changes in salinity and exposure to cadmium and diesel-oil. ____ Mar. Ecol. Progr. Ser. **47**, 107-116.

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- UGOLINI, A. & F. SCAPINI, 1988. Orientation of the sandhopper Talitrus saltator (Amphipoda, Talitridae) living on dynamic sandy shores. ____ J. comp. Physiol. A 162, 453-462.
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- KARAMAN, G.S., 1984. Remarks to the freshwater *Gammarus* species (fam. Gammaridae) from Korea, China, Japan and some adjacent regions (Contribution to the knowledge of the Amphipoda 134). ____ Montenegrin Acad. Sci. Arts. Glasnik Sect. nat. Sci. 4, 139-162. (Deals with *Gammarus galgosensis*, *G. koreanus* Ueno, 1940 (raised to specific rank), *G. odaensis*, *G. s. sobaegensis*, *G. s. kimi* n. ssp. (Cheongsong, Korea), *G. s. marginalis* n. ssp. (Bongwha, Korea), *G. soyoensis*, *G. zeongogensis*, *G. gregoryi*, *G. nekkensis*, *G. spinipalmus*, *G. suifunensis*, *G. tallensis*, *G. lacustris*, '*G. pulex*', *G. nipponensis*, *G. chimkenti* n. nom (= *G. gracilis* Martynov 1935, non Rathke 1837), *G. songirdaki* n. nom. (= *G. truncatus* Martynov, non Viviani 1805), *G. s. hissari* n. nom. (= *G. truncatus montanus* Martynov, non Costa 1851), *G. matienus* f. *stagnalis* and *G. bellii* n. nom. (= *G. fluviatilis* Bell 1921, non M. Edw. 1830)).
- KARAMAN, G.S., 1984. The genus *Laurogammarus* n. gen. (fam. Gammaridae) in Yugoslavia. (Contribution to the knowledge of the Amphipoda 135). ____ Bilten, Sarajevo B (3) 2, 29-35. (Incomplete ref. in AN 16-20).
- KARAMAN, G.S., 1984. Critical remarks to the fossil Amphipoda with description of some new taxa (Contribution to the knowledge of the Amphipoda 137). ____ Poljoprivreda i Šumarstvo 30-34, 87-104. (*Alsacomelita* n. gen. is erected for *A semipalmata* n. sp. (= '*Melita palmata*' Maikovsky), *Condiciogammarus* n. gen. for *Gammarus retz*, and *Jubeogammarus* n. gen. for *G. alsaticus*; all 3 taxa from the lower Oligocene of the Alsace. All known fossil amphipods are reviewed).
- KARAMAN, G.S., 1984. Revision of *Eriopisa* - complex of genera (Gammaridea) (Contribution to the knowledge of the Amphipoda 139). ____ Poljoprivreda i Šumarstvo 30-34, 39-72. (The author divides this complex as follows: *Eriopisa* with *elongata* (type) and *incisa*, *Confodiopisa* n. gen. (type *Psammogammarus caesicolus*, also *scopulorum* and possibly *garthi*), *Flagitopisa* n. gen. (for *Niphargus philippensis*, *Impertopisa*

- n. gen. (for *Eriopisa gracilis*), *Psammogammarus* (type *caesus*, also *longiramus*), *Roropisa* n. gen. (type *Victoriopisa atlantica*, also *epistomata*), *Tunisopisa* (type *E. seurati*), *Victoriopisa* (type *Niphargus chilensis*, also *V. c. griffithsi* n. ssp. (S. Africa) and *australiensis*) and *Victopisa* n. gen. (type *E. inaequicaudata*). *V. chilensis* is redescribed from Sri Lanka material).
- KARAMAN, G.S., 1984. Contribution to the knowledge of the Amphipoda. 140. On some gammaridean amphipods from Sri Lanka and adjacent regions. ___ *Studia mar.*, Kotor 15/16, 109-130. (Deals with *Ceradomaera plumosa* (with which *Maera othonides* s. Chilton, K.H. Barnard and Nayar may be identical) and *Quadrivisio bengalensis*. The new genus *Animoceradocus* n. gen. (Melitidae) is erected for *Megamoera semiserrata* (type) and possibly *Ceradocus baffini*).
- KARAMAN, G.S., 1984. Contribution to the knowledge of the Amphipoda. 141. *Quadrus vagabundus*, new genus and species, and revision of genus *Eriopisella* Chevr. (Gammaridea). ___ *Studia mar.* Kotor 15/16, 131-148. (*Quadrus vagabundus* n. gen., n. sp. (Melitidae) is described from Jaffna, Sri Lanka. Karaman revises the *Eriopisella* - group of genera as follows: *Eriopisella* (type *pusilla*, further spp. *capensis*, *epimera sechellensis*, *upolu*), *Cephalopisella* n. gen. (type *E. propagatio*), *Madapisella* (type *E. madagascarensis*), *Nippopisella*, (type *E. nagatai*) and *Spiniferopisella* n. gen. (type *E. spinosa*). The author further notes that the genera *Indocratus* and *Incratella*, both established in 1983, are objective synonyms).
- KARAMAN, G.S., 1984. (?). Contribution to the knowledge of the Amphipoda. 148. *Niphargus krameri* Schell. and *N. spinulifemur* S. Kar. in southern Europe. ___ *Bull. Mus. Hist. nat. Beograd B* 39, 85-104. (Received 1987. *N. spinulifemur*, originally described as ssp. of *N. krameri*, is here raised to specific rank. *N. krameri* is found for the first time in Italy, in the Trieste region).
- KARAMAN, G.S., 1985. Contribution to the knowledge of the Amphipoda. 147. *Niphargus tamaninii* Ruffo 1953 and subspecies *N. t. barbatus* n. ssp. (fam. Niphargidae) in Italy. ___ *Poljoprivreda i Šumarstvo* 31 -1, 63-78. (*N. tamaninii* was originally described as ssp. of *N. kochianus*).
- KARAMAN, G.S., 1985. Contribution to the knowledge of the Amphipoda: 146. *Niphargus bodoni*, new species and *Niphargus pescei* in Italy (fam. Niphargidae). ___ *Fragm. balcan. Mus. macedonici Sci. nat.* 12, 81-83. (From Liguria, Italy).
- KARAMAN, G.S., 1985. The taxonomy of *Niphargus transitivus* Sket, 1971, with remarks to *N. armatus* G. Kar., 1985 (fam. Niphargidae) in Italy. (Contribution to the knowledge of the Amphipoda 149). ___ *Poljoprivreda i Šumarstvo* 31, 21-35. (Deals with *Niphargus t. transitivus*, *N. t. dissonus* and *N. armatus*).
- KARAMAN, G.S., 1985. Contribution to the knowledge of the Amphipoda. 151., *Gammarus salemaai*, new species from Lake Ohrid (Macedonia, Yugoslavia) (Family Gammaridae). ___ *Fragm. balc. Mus. Macedonici Sci. nat.* 12, 155-168. (This new species is i.a. characterized by a different chromosome number).
- KARAMAN, G.S., 1985. *Foroniphargus pori*, new genus and species of family Niphargidae. (Contribution to the knowledge of the Amphipoda 152). ___ *Poljoprivreda i Šumarstvo* 31, 51-66. (*F. pori* n. gen., n. sp. (Niphargidae) from subterranean freshwaters of N. Dan., Israel).
- KARAMAN, G.S., 1986. Contribution to the knowledge of the Amphipoda. 142. Two new taxa of suborder Gammaridea from Asia, with remarks to some of Sri Lanka's species. ___ *Poljoprivreda i Šumarstvo* 31 -1, 15-40. (*Dodophotis* n. gen. (Isaeidae) has *Photis distinguenda* as type and *P. digitata* as further species; the latter is redescribed. Also *Grandidierella* (*G. bonnieroides* is redescribed, and a new subgenus *G. (Bigrandidierella)* erected for *Microdeutopus megnae*).
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- KARAMAN, G.S., 1986. New data on the genus *Niphargus* Schiödte (fam. Niphargidae) in Italy and adjacent regions (Contribution to the knowledge of the Amphipoda 138). ___ *Boll. Mus. Civ. Stor. Nat. Verona* 12 (1985), 209-218. (Deals with *Niphargus armatus* n. sp. (Friuli), *N. ictus* n. sp. (Grotta del Fiuma), *N. stefanellii*, *N. hebereri*, *N. pescei* and *N. microcerberus*).
- KARAMAN, G.S., 1986. Contribution to the knowledge of the Amphipoda. 150. One new species of genus *Niphargus* (Gammaridea, Niphargidae) from France, *Niphargus renei* n. sp. ___ *Annis Limnol.* 22, 17-25. (From subterranean waters of the Rhone near Lyon. *N. renei* belongs to the *orcinus*-group of species).
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madagascarensis n. sp. (recte: *madagascarensis*), *Lysianassa ceratina*, *L. cinghalensis*, *L. c. latipes* n. ssp., *L. ewa*, *L. nasuta*, *L. variegata*, *Onesimoides cavimanus*, *O. chelatus*, *Orchomene plicata*, *Procyphocaris induratus*, *Pseudocyphocaris* n. gen. (Lysianassidae s. l.), type *P. coxalis* n. sp., *Schisturella parachelata* n. sp. (3450 m), *Socarnes obesa*, *Socarnoides indentata* n. sp., *Thrombasia incerta* n. sp., *Trischizostoma denticulata*, ?*Uristes latipes* n. sp., *Maxillipus rectitelson*, *Melphisana madagascarensis*, *Ochlesis carinatus* n. sp., *Kanaloa manoa*, *Monoculodopsis longimana*, ?*Oedicerina megalopoda* n. sp., ?*Oediceroides plumicornis*, *O. cf. weberi*, ?*O. aff. wolffi*, *Perioculodes acuticoxa*, *P. aequimanus mozambicus* n. ssp., *P. brevicarpus* n. sp., *P. longimanus*, *P. megapleon*, *P. serra*, *Amathillopsis comorensis* n. sp. (2500 m), *A. septemdentata*, *Epimeria bispinosa* n. sp. (3450 m), *Halice macronyx*, *Pardaliscella inermis* n. sp. (3700 m), *Pereionotus alaniphias*, *P. natalensis* (*Palinnotus* is synonymized with *Pereionotus*), *Plioplateia nodiformis* n. sp. (the Plioplateiidae are synonymized with the Phliantidae), *Basuto stimpsoni*, *Diogodias longicarpus*, *D. platyrostris*, *Harpiniopsis bandelei* n. sp. (520-830 m), *Pseudoharpinia cf. breviostris*, *Harpiniopsis cf. capensis* (described as *Harpinia laeva capensis*), *Harpinia cf. curtipes*, *Harpiniopsis pseudonadania* n. sp. (1300-1480 m), *Joubinella indentata* n. sp. (1100 m), *Metaphoxoides angustimanus*, *M. picardi*, *Metaphoxus (Vasco) brevidactylus (Vasco)* is thus reduced to the rank of subgenus), *M. fultoni tulearensis* (described as *Vasco tulearensis*), *Proharpinia setifera* n. sp., *Parapleustes barnardi*, *P. honomu*, *Dulichlopsis brevidactylus* n. sp., *Laetmatophilus hala*, *L. intermedius*, *Neoxenodice caprellinoides*, *Podocerus gloriosae* n. sp., *P. hanapepe*, *P. madagascarensis* n. sp., *P. palinuroides* n. sp., *P. tulearensis* n. sp., *P. walkeri pedonculata* n. sp., ?*P. zeylanicus*, *Seba ekepuu*, *S. gloriosae* n. sp., *S. typica*, *Anadaniexis australis*, *A. tridentata* n. sp. (3700 m), *Glorandaniotis* n. gen., (Stegocephalidae), type *G. fissicaudata* n. sp. (3700 m), *Parandaniexis inermis* n. sp. (3700 m), *Stegocephaloides australis*, *Proboloides anophthalma* n. sp., *P. armata* n. sp. (3700 m), *Stenothoe adhaerens*, *S. gallensis*, *S. inermis*, *S. valida*, *Wallametopa cabon*, *Bruzelia diodon*, *Ilerastroe ilergetes*, *Metatiron brevidactylus*, *M. caecus*, *Synopia ultramarina*, *S. variabilis*, *Hyale chevreuxi*, *H. honoluluensis*, *H. inermis*, *H. macrodactyla*, *H. nigra*, *Orchestia anomala*, *O. notabilis*, *Parhyale hawaiiensis*, *P. spec.*, *Talorchestia martensii*, *Tulearus thomassini*, and *Vemana geysersensis* n. sp. (2500 m). In an appendix the following additional species are treated. *Byblis inaequicornis* n. sp., *Byblisoides* sp., *Biancolina mauihina*, *Photis dolichommata*, *Unciola integrupleura* n. sp. (1100-1150 m), ?*Oradarea scissicaudata* n. sp. and *Prolaphystiopsis latirostris* n. sp. (2300-2500 m). A general part deals with the biogeography of Indian Ocean amphipods; it contains a list of all species recorded from this area (pp. 1046-1064).

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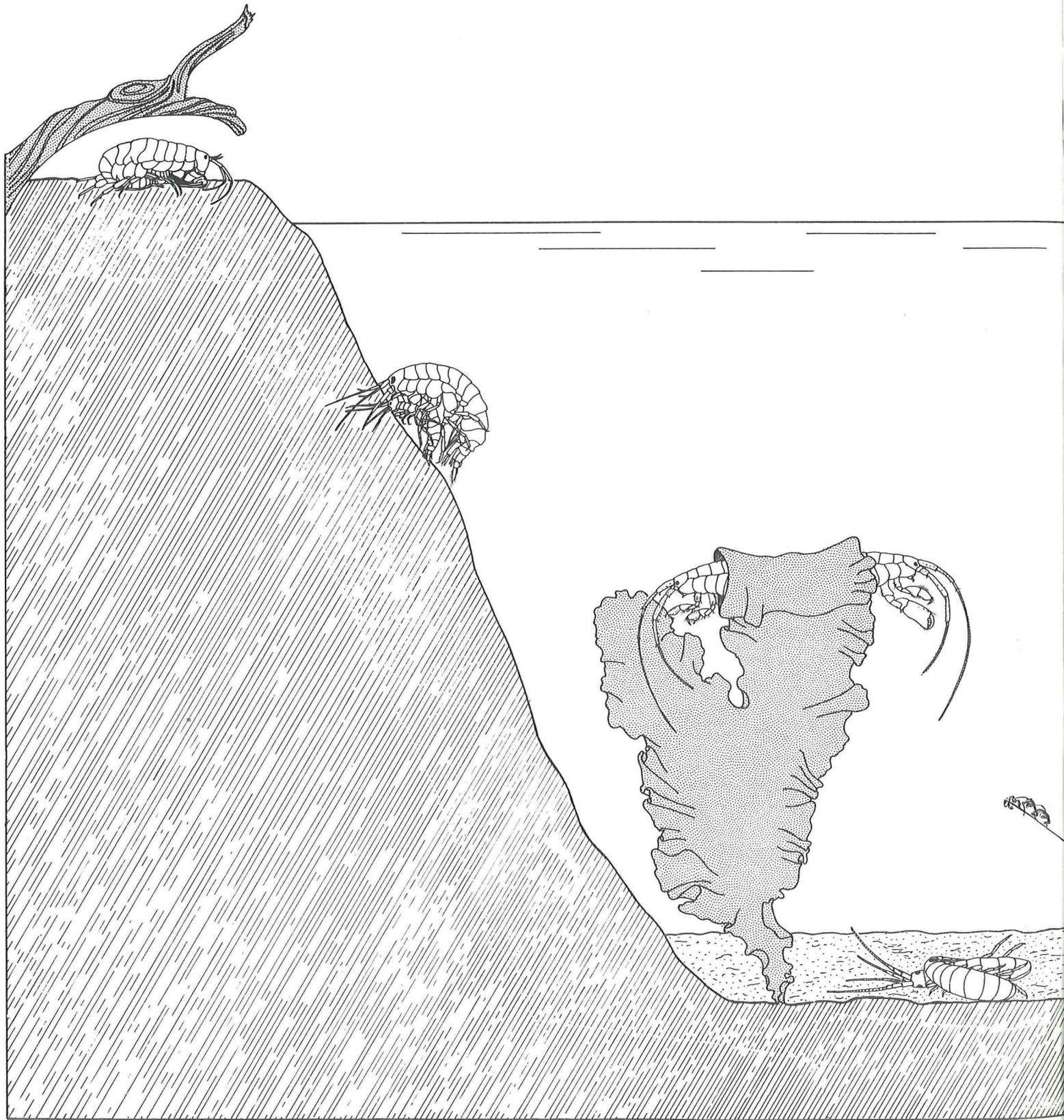
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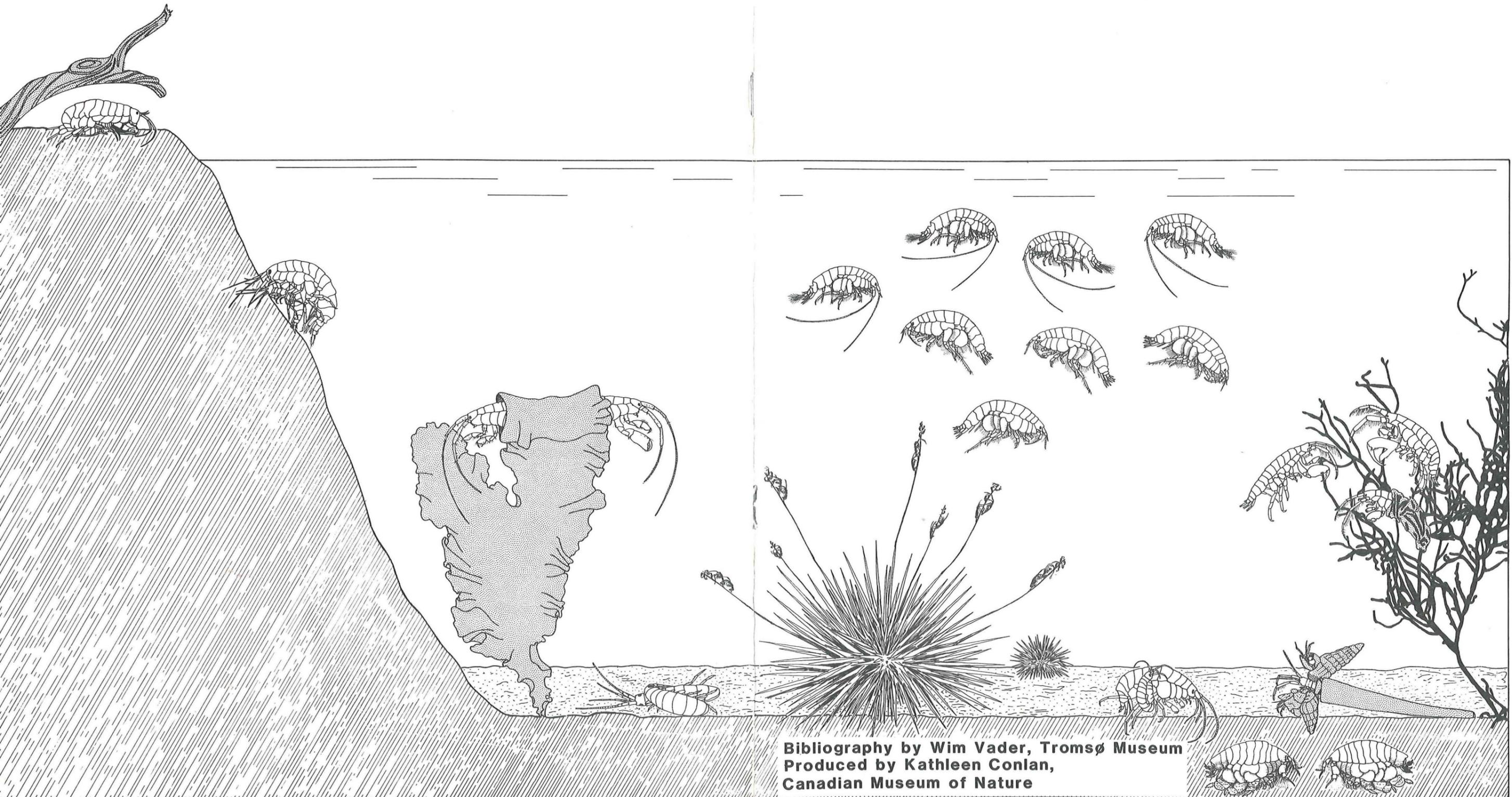
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Bibliography by Wim Vader, Tromsø Museum
Produced by Kathleen Conlan,
Canadian Museum of Nature