# AMPHIPOD NEWSLETTER 46

## Dear Amphipodologists,

We hope this newsletter finds of you healthy and in good spirits. 2022 was hopefully the last year of postponed meetings, electronic greetings and cancelled collection-expeditions. Many of us were still in isolation and home-offices, and we miss our our colleagues possibly even more than we did last year. We are hoping that our students have been getting at least a little more hands-on practicing and other opportunities that help building a career including our favourite animals - the amphipoda.

*Statistics from this Newsletter*

new families: 1

The facebook group is as active as ever, and it seems this has become a social place for the amphipodologists to meet, as well as presenting our publications and other work. Our beloved ICA will be held at Djerba Island in Tunisia in the end of April - read more about the colloquium and how you can submit your abstract on page 2.The X$^{th}$ International Crustacean Congress, to be held in Wellington, New Zealand in May will have a peracarid symposium as well as several other amphipod-themed talks and presentations (see page 58). There will also be two associated workshops in Wellington. This June will see a course on taxonomy and ecology of Amphipods at the Smithsonian Tropical Research Institute in Panama, see the flyer on page 60. Block out the time in your calendars, friends!

We have done a few changes - especially with the timing of the bibliography (and this newsletter) this time. In order to help us in the long run with the statistics, we decided to move the bibliographies to calendar-year summaries. This will of course affect the statistics for this Newsletter with a slightly longer period and thus increased number of publications and taxa, but hopefully it will be an easier comparison after that. This (slightly extended) year our community have published a stunning 443 papers, find them all in the bibliography (page 3).
Last year we announced a small questionnaire about the development of Amphipod Newsletter. Find out about what results we got to this on page 58.
Make sure to check out the last page for "the old photo". We hope this will bring happy memories to some, and pleasure to all.

*Wim and Anne Helene*

# 19th International Colloquium on Amphipoda

April 27 - May 2, 2023

Dear Amphipodologists,

We look forward to welcoming you, very warmly, to the 19th International Colloquium on Amphipoda (ICA) that will be held in the wonderful island of Djerba in the South of Tunisia.

As you probably know, the 19th ICA was sheduled in 2021 but, due to covid-19, it was postpone. We are now delighted to confirm that the 19th ICA will be held from 27 April to 2 May 2023.

As in all the preceding editions, the colloquium will be a great opportunity for our international community to gather over six days, to share information about our most recent research developments upon amphipod crustaceans (systematics, ecology, biogeography, physiology, genetics, ecotoxicology, etc.)

After great meeting in cities such Dijon, Trapani, Aveiro, Szczawnica, Sevilla… the 19th ICA will take place at the magical island of Djerba: a Mediterranean flavour with African scents, houses sunk in the sand with blue doors and round ceilings, endless beaches and an opening culture where artists and writers sourced for inspiration.

The ICA is organized by the Faculty of Sciences of Tunis (FST) and Tunisian Association of Taxonomy (ATUTAX).

We will be delighted finally to welcome you to Djerba in 2023.

All the best

*Faouzia Charfi and the organising committee*

## Deadlines and more information

Abstracts deadline: February 20th

Early bird registration deadline: March 25th.

Please see https://atutax.org/fra/pages/166/About-19th-ICA for more information.

# Bibliography

(finished Dec 27th, 2022)

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Alther, R., E. A. Fronhofer & F. Altermatt 2021. Dispersal network and riverine network connectivity shape the genetic diversity of freshwater amphipod metapopulations. ---- *Molecular Ecology 30*: 6551-6565. https://doi.org/10.1111/mec.16201.

Alther, R., A. Krähenbühl, P. Bucher & F. Altermatt 2023. Optimizing laboratory cultures of *Gammarus fossarum* (Crustacea: Amphipoda) as a study organism in environmental sciences and ecotoxicology. —- *Science of the Total Environment 885*: 158730 https://doi.org/10.1016/j.scitotenv.2022.158730

Anderson, J. & R. S. Prosser 2022. Potential risk to aquatic biota from aerial application of firefighting water additives. —-*Environmental Pollution 316*: 120651. https://doi.org/10.1016/j.envpol.2022.120651 (*Hyalella azteca* test-object)

Andrade, L. F., J. C. F. Pardo & A. C. Costa 2021. New insights of soft bottom shallow water amphipods from the Azores. ---- *Acoreana, Supplemento 11*: 151-175. (8 amphipod species, all fully illustrated, among them *Psammogammarus* sp. and *Nuuanu* sp., new to the Azores)

Andrade, L. F., A. R. Senna & J. F. Souza-Filho 2022. First record and a new species of *Foxiphalus* Barnard, 1979 (Crustacea: Amphipoda: Phoxocephalidae) from the Atlantic Ocean, with two new records of the family from northeastern Brazil. —- *Papéis Avulsosde Zoologia 62*: e202262055. https://doi.org/10.11606/1807-0205/2022.62.055 (*Foxiphalus potiguara* sp. nov. from Rio Grande du Norte)

Andrade, L. F., J. F. Souza-Filho & A. R. Senna 2022. A new species of *Leptophoxoides* Barnard, 1962 (Amphipoda, Phoxocephalidae) from the Brazilian northeastern continental slope. ---- *Papeis Avulsos de Zoologia 62*: e202292006. https://doi.org/10.11606/1807-0205/2022.62.006. (*L. longisetae* n. sp. from off Rio Grande del Norte state.)

Andrade, L. F., J. F. Souza-Filho & A. R. Senna 2022. Description of a novel genus with three species of Phoxocephalidae G. O. Sars, 1891 (Crustacea: Amphipoda) from off northeastern Brazil. —-*Zootaxa 5128*: 301-339. https://doi.org/10.11646/ZOOTAXA.5128.3.1 (*Magnaphoxus* gen. nov., with the species *M. ajaja*, *M. simplex* and *M. longicarpus* is described from shallow depths - 170m.)

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performance, feed utilization, histological and histometric indices of the gut, and economic revenue of Grey Mullet. ---- *Journal of Marine Science and Engineering 9*: 1336. https://doi.org/10.3390/jmse9121336

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marina. —- *Biodiversity and Conservation 31*: 2981-2997 https://doi.org/10.1007/s10531-022-02468-9

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Blanchard, A. L., N. L. Demchenko, L. A. M. Aerts, S. B. Yazvenko, V. V. Ivin & I. A. Shcherbakov 2022. Benthic studies adjacent to Sakhalin Island, Russia, 20215 I: benthic biomass and community structure in the nearshore gray whale feeding area. ---- *Environmental Monitoring and Assessment 195 (Suppl.1*): 743. https://doi.org/10.1007/s10661-022-10017-8

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Blum, R. & M. S. Valiñas. 2022. Shelter selection by intertidal amphipods: the role of UVR and photoprotective compounds. —-*Aquatic Ecology 56*: 1055-1067. https://doi.org/10.1007/s10452-022-09956-8 (It does not matter what they eat, *Ampithoe valida* seem to seek shelter from the sun regardless.)

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Burns, M. P. A., P. J. Schaeffer & D. J. Berg 2023. Metabolic rate and osmoregulation in desert spring amphipods. —- *Canadian Journal of Zoology 101*: 1-5. https://doi.org/10.1139/cjz-2021-0195 (A study on *Gammarus colei* and *G. seideli* from the Chihuahuan desert)

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Calvo, L., M. Birgaoanu, T. Pettini, M. Ronshaugen & S. Griffiths-Jones 2022. The embryonic transcriptome of *Parhyale hawaiensis* reveals different dynamics of microRNAs and mRNAs during the maternal-zygotic transition. ---- *Scientific Reports 12*: 174. https://doi.org/10.1038/s41598-021-03642-9

Cannizzaro, A. G. & D. J. Berg. 2022. Gone with Gondwana: Amphipod diversification in freshwaters followed the breakup of the supercontinent. —- *Molecular Phylogenetics and Evolution 171*: 107464. https://doi.org/10.1016/j.ympev.2022.107464 (Hyaloids arise in the Mesozoic, and freshwater invasion must have happened later than previously thought.)

Cannizzaro, A. G., J. D. Daniels & D. J. Berg 2021. Phylogenetic analyses of a new freshwater amphipod reveal polyphyly within the Holarctic family Crangonyctidae, with revision of the genus *Synurella.* ---- *Zoological Journal of the Linnean Society 195*: 1100-1115. https://doi.org/10.1093/zoolinnean/zlab092 (*Sicifera cahawba* n. gen., n. sp. from Dallas County, Alabama, USA. Three

*Synurella* species: *S. bifurca, S. chamberlaini* and *S. dentata*, are transferred to *Sicifera*. A key to Nearctic synurellids is provided.)

Cannizzaro, A. G., J. M. Sisco & T. R. Sawicki 2022. Reappraisal of the *Crangonyx floridanus* species complex, with the description of a new species of *Crangonyx* Bate, 1859 (Amphipoda: Crangonyctidae) from northern Florida, USA. —-*Journal of Crustacean Biology 42*: ruac027. https://doi.org/10.1093/jcbiol/ruac027 (*Crangonyx apalachee* sp. nov. from Lake Jackson, Florida. More species from this complex may still be described)

Carbajal, P., A. G. Salazar, P. J. Moore & A. Perez-Matus 2021. Different kelp species support unique macroinvertebrate assemblages, suggesting the potential community-wide impacts of kelp harvesting along the Humboldt Current System. ---- *Aquatic Conservation of Marine & Freshwater Ecosystems 2021*: 1-14. https://doi.org/10.1002/aqc.3745

Cartes, J. E., D. Díaz-Viñolas, J. M. González-Irusta, A. Serrano, S. Mohamed & A. Lombarte. 2022. The macrofauna associated to the bamboo coral *Isidella elongata*: to what extent the impact on Isideidae affects diversification of deep-sea fauna. —-*Coral Reefs 41*: 1273-1284. https://doi.org/10.1007/s00338-022-02243-w (*Dautzenbergia megacheir* and *Seba aloe* found associated)

Carvalho, N. F., R. C. Silva, J. S. Rosa Filho & G. B. Jacobucci 2022. Which structural traits in *Sargassum* species really matter for caprellid assemblages? ---- *Estuarine, Coastal and Shelf Science 265*: 107703. https://doi.org/10.1016/j.ecss.2021.107703

Ceriello, H., A. R. Senna, L. F. Andrade & S. N. Stampar 2021. Crustacea biodiversity in tubes of Ceriantharia (Cnidaria: Anthozoa), including the description of a novel species of Amphipoda from southeastern Brazil. ---- *Marine Biology Research 17*: 692-706. https://doi.org/10.1080/17451000.2021.2020293 (Includes the description of *Podocerus carmelina* n. sp. (Alcatrazes Archipelago, Brazil), and a key to Atlantic Ocean *Podocerus*)

Chan, J., D. Geng, B. Pan, Q. Zhang & Q. Xu 2021. Gut microbial divergence between three hadal amphipod species from the isolated hadal trenches. ---- *Microbial Ecology 84*: 627-637. https://doi.org/10.1007/s00248-021-01851-3 (*Hirondellea gigas, Bathycallisoma schellenbergi* and *Alicella gigantea*.)

Cházaro-Olvera, S., I. Winfield, G. Cruz-González & S. J. Chazaro-Martínez 2022. First population study of *Caribitroides (Caribitroides) tuxtlensis* (Amphipoda: Talitridae) from a rainforest in Veracruz state, eastern Mexico. ---- *Journal of Natural History 56*: 67-77. https://doi.org/10.1080/00222933.2022.2054385

Chelchowski, M., P. Balazy, K. Grzelak, L. Grzelak, M. Kedra, J. Legezynska & P. Kuklinski 2021. Vertical zonation of benthic invertebrates in the intertidal zone of Antarctica (Admiralty Bay, King George Island). ---- *Antarctic Science* 34: 29-44. https://doi.org/10.1017/S095410202100047X

Chunga-Llauce, J. A., L. Tapia-Ugaz, J. Santamaria & J. M. Guerra-Garcia 2022. First record of the exotic caprellid *Paracaprella pusilla* (Amphipoda, Caprellidae) in the Peruvian coast. ----

*Thalassas: An International Journal of Marine Sciences* 2022: online only. https://doi.org/10.1007/s41208-022-00473-x

Clark, H. L., B. A. Buzatto & S. A. Halse 2021. A hotspot of arid zone subterranean biodiversity: the Robe Valley in Western Australia. ---- *Diversity 13*: 482. https://doi.org/10.3390/d13100482.

Clayton, T. P. 2021. *Microfibre effects on the freshwater amphipod* Gammarus pulex. ---- MSc Thesis, Univ. of Leeds. (Not seen)

Coleman, C. O., T. Krapp-Schickel & V. Häussermann 2022. Amphipod crustaceans from Chilean Patagonia. —- *European Journal of Taxonomy 849 (1)*: 1-57. https://doi.org/10.5852/ejt.2022.849.1995 (*Liouvillea rocagloria* sp. nov. described, *Sunamphitoe femorata*, *Haplocheira barbimana robusta*, *Epimeria (Metepimeria) acanthurus*, *Labriphimedia vespuccii*, *Leucothoe kawesquari*, *Podocerus* cf. *danae* and *Torometopa* cf. *crassicornis* redescribed.)

Copilaş-Ciocianu, D., T. Rewicz, A. F. Sands, D. Palatov, I. Marin, K. Arbaciauskas, P. N. Hebert, M. Grabowski & A. Audzijonyte 2022. A DNA barcode reference library for endemic Ponto-Caspian amphipods. —-*Scientific Reports 12*: 11332 https://doi.org/10.1038/s41598-022-15442-w (COI and 16S for about 60% of the Ponto-Caspian amphipoda)

Copilaş-Ciocianu, D. & E. Šidagytė-Copilas 2021. A substantial range expansion of alien Ponto-Caspian amphipods along the eastern Baltic coast. ---- *Oceanologia 64*: 227-232. https://doi.org/10.1016/j.oceano.2021.09.005 (*Chaetogammarus warpachowskyi*, *Dikerogammarus haemobaphes, Pontogammarus robustoides* & *Chelicorophium curvispinum*.)

Copilaş-Ciocianu, D. & D. Sidorov 2022. Taxonomic, ecological and morphological diversity of Ponto-Caspian gammaroidean amphipods: a review. ---- *Organisms, Diversity and Evolution 22*: 285-315. https://doi.org/10.1007/s13127-021-00536-6. (A veritable gold mine!!)

Copilaş-Ciocianu, D., D. Sidorov & E. Šidagytė-Copilas 2023. Global distribution and diversity of alien Ponto-Caspian amphipods. ---- *Biological Invasions* 25, *179-195.* https://doi.org/10.1007/s10530-022-02908-1

Cosentino, S., F. Aureli & V. Iannilli 2022. Bisphenols A and its analogues induce genotoxic damage in marine and freshwater amphipods. ---- *Environmental Advances 7*: 100183. https://doi.org/10.1016/j.envadv.2022.100183 (*Echinogammarus veneris* and *Gammarus aequicauda).*

Cosio, C., D. Degli-Esposti, C. Almunia, V. Gaillet, H. Sartelet, J. Armengaud, A. Chaumot, O. Geffard & *A*. Geffard 2021. Subcellular distribution of dietary methyl-mercury in *Gammarus fossarum* and its impact on the amphipod proteome. ---- *Environmental Science & Technology 55*: 10514-10523. https://doi.org/10.1021/acs.est.1c02385.

Costa, L. L., L. Fanini, I. Rosental Zalmon, O. Defeo & A. McLachlan 2022. Cumulative stressors impact macrofauna differentially according to sandy beach type: a meta-analysis. ---- *Journal of Environmental Management 307*: 114594. https://doi.org/10.1016/j.jenvman.2022.114594

Costa, V., R. Chemello, D. Iaciofani, S. Lo Brutto & F. Rossi 2021. Small-scale patches of detritus as habitat for invertebrates within a *Zostera noltei* meadow. ---- *Marine Environmental Research 171*: 105474. https://doi.org/10.1016/j.marenvres.2021.105474.

Cozzoli, F., M. Shokri, S. Boulamail, V. Marrocco, F. Vignes & A. Basset 2022. The size dependency of foraging behaviour: an empirical test performed on aquatic amphipods. —- *Oecologia 199*: 377-386. https://doi,org/10.1007/s00442-022-05195-8 (*Gammarus insensibilis*. Larger animals go for resource-rich patches more often than smaller animals do.)

Cruz-Rivera, E. & T. Hafez 2023. Sex, mate guarding, and reproductive state as potential modulators of herbivory in an aquatic consumer. —- *Aquatic Sciences 85*: 12 https://doi.org/10.1007/s00027-022-00911-1 (A study on *Gammarus aequicauda*)

Cruz-Rivera, E., M.-E.-D. Sherif, S. El-Sahar & T. Lombardi. 2022. Spatial Variability in a Symbiont-Diverse Marine Host and the Use of Observational Data to Assess Ecological Interactions. —-*Diversity 14*: 197. https://doi.org/10.3390/d14030197 (*Leucothoe furina* found in the ascidian *Phallusia nigra* (together with several other symbionts) along the Red Sea coast)

Cummings, V. M., F. V. Araujo, L. F. Andrade & A. R. Senna 2022. A new species of *Dulichiella* Stout, 1912 (Amphipoda: Melitidae) from Guanabara Bay, Rio de Janeiro, Brazil. ---- *Journal of Natural History 55*: 33-34, 2111-2128. https://doi.org/10.1080/00222933.2021.1993368. (*Dulichiella brunoi* n. sp. With a key to world *Dulichiella*.)

Cuthbert, R. N., S. G. Kotronaki, J. T. Carlton, G. M. Ruiz, P. Fofonoff & E. Briski 2022. Aquatic invasion patterns across the North Atlantic. ---- *Global Change Biology 28:* 1376-1387. https://doi.org/10.1111/gcb.16016

Dauvin, J.-C. 2022. An Update of Amphipoda Checklist for the English Channel. —-*Diversity 14*: 783. https://doi.org/10.3390/d14100783 (a total of 269 species of Amphipoda in the English Channel)

Dauvin, J.-C., M. Deloor, J.-P. Pezy, A. Raoux, P. Claquin & A. Foveau 2021. Four-year temporal study of an intertidal artificial structure in the English Channel. ---- *Journal of Marine Science and Engineering 9:* 1174. https://doi.org//10.3390/jmse9111174.

Dauvin, J.-C., J.-P. Pezy, E. Poizot, S. Lozach & A. Trentesaux 2022. A multidisciplinary approach for a better knowledge of the benthic habitat and community distribution in the central and western English Channel. ---- *Journal of Marine Science and Engineering 10*: 1112. https://doi.org/10.3390/jmse10081112

Davenport, J., M. Jessopp, L. Harman, V. Micaroni & R. McAllen 2021. Diurnal and nocturnal scavenger communities differ at two shallow-water depths in an Irish marine lough. ---- *Estuarine, Coastal and Shelf Science 262*: 107580. https://doi.org/10.1016/j.ecss.2021.107580.

Delic,T., P. Trontelj, V. Zaksek, A. Brancelj, T. Simic, F. Stoch & C. Fiser 2022. Speciation of a subterranean amphipod on the glacier margins in South Eastern Alps, Europe. ---- *Journal of Biogeography 49*: 38-50. https://doi.org/10.1111/jbi.14275. (The *Niphargus stygius* complex)

Demetrio, P. M., F. Rimoldi & M. L. Peluso 2022. Impact of intensive agricultural production on the ecotoxicologic quality of associated medium-order streams: cereal and oilseed versus horticultural production. ---- *Environmental Management 69,* 600-611. https://doi.org/10.1007/s00267-021-01579-3. (*Hyalella curvispina*)

Demirci, Ö. 2022. Evaluation of toxic effect of insecticide, herbicide and fungicide as single and mixture on *Gammarus lacustris* using biochemical markers. —-*Chemistry and Ecology 38,* 195-210. https://doi.org/10.1080/02757540.2022.2045973

Derby, A. P., K. E. Huff-Hartz, N. W. Fuller, P. F. Landrum, J. D. Reeve, H. C. Poynton, R. E. Connon & M. J. Lydy 2022. Effects of temperature and salinity on bioconcentration and toxicokinetics of permethrin in pyrethroid-resistant *Hyalella azteca.* ---- *Chemosphere 299*: 134393. https://doi.org/10.1016/j.chemosphere.2022.134393

Desiderato, A., J. Beermann, M. A. Haddad & L. F. Fernandes 2021. Diatom epibionts on amphipod crustaceans: a possible vector for co-introductions. ---- *Water 13*: 2227. https://doi.org/10.3390/w13162227. (Found on *Caprella equilibra, Paracaprella pusilla* and *Jassa valida* in Brazil.)

Desiderato, A., T. Mamos, T. Rewicz, A. Burzynski & S. Mucciolo 2021. First glimpse at the diverse aquaporins of amphipod crustaceans. ---- *Cells 10*: 3417. https://doi.org/10.3390/cells10123417.

Dias, H. Q., S. Sukumaran & H. Ridha 2022. Benthic community resilience in two differently impacted tropical estuaries: Taxonomic vs functional approaches. ---- *Journal of Environmental Management 324*: 116264. https://doi.org/10.1016/j.jenvman.2022.116264 (A study from India)

Diaz-Morales, D. M., M. Khosravi, D. S. Grabner, N. Nahar, C. Bommarito, M. Wahl & B. Sures 2022. The trematode *Podocotyle atomon* modulates biochemical responses of *Gammarus locusta* to thermal stress but not its feeding rate or survival. —- *Science of the Total Environment 858*: 159946. https://doi.org/10.1016/j.scitotenv.2022.159946

Di Camilo, C. G., G. Luzi, A. Danial, L. Di FLorio, B. Calcinai, S. Lo Brutto, J. L. S. M. da Oliveira, A. Fumanti & C. Cerrano 2022. Characterization of Intertidal Macrofaunal Communities of Two Sandy BEaches under Different Anthropogenic Pressures. —- *Journal of Marine Science and Engineering 10(12)*: 1976 https://doi.org/10.3390/jmse10121976

Didorenko, S. I., A. D. Botvinkin & V. V. Takhteev 2021. A new trophic relationship in the Baikal ecosystem: The pelagic amphipod *Macrohectopus branickii* (Crustacea, Amphipoda) and the bat *Myotis petax* (Mammalia, Chiroptera). ---- *Biology Bulletin 48*: 907-914. https://doi.org/10.1134/S1062359021070116 (A most unexpected food chain!)

Didorenko, S. I., A. D. Botvinkin & V. V. Takhteev 2022. *Myotis petax* (Chiroptera, Vespertilionidae) preys on pelagic Amphipoda (Crustacea, Gammaroidea) of Lake Baikal. ----

*Acta Chiropterologica 24*: 187-194. https://doi.org/10.3161/1509110+ACC2022.24.1.015. (*Macrohectopus branickii*)

Dischereit, A., P. S. Wangensteen, K. Præbel, H. Auel & C. Havermans 2022. Using DNA Metabarcoding to characterize the prey spectrum of two co-occurring *Themisto* amphipods in the rapidly changing Atlantic-Arctic gateway Fram Strait. ---- *Genes 13*: 2035.https://doi.org/10.3390/genes13112035. (*T. libellula* and *T. abyssorum* have largely different diets).

Dobrzycka-Krahel, A., J. L. Kemp & M. L. Fidalgo 2022. Cold-tolerant traits that favour northwards movement and establishment of Mediterranean and Ponto-Caspian alien aquatic invertebrates. ---- *Aquatic Sciences 84*: 47. https://doi.org/10.1007/s00027-022-00879-y

Dominguez-Nava, A., R. Gasca, L. Carrillo, L. Vasquez-Yeomans & E. Suarez-Morales 2021. Hyperiid amphipod vertical distribution and community structure in the upper 100 m of the northwestern Caribbean Sea. ---- *Bulletin of Marine Science 97*: 401-426. https://doi.org/10.5343/bms.2020.0030.

Drivdal, M., E. H. Kunisch, B. A. Bluhm, R. Gradinger, S. Falk-Petersen & J. Berge 2021. Connections to the deep: deep vertical migrations, an important part of the life cycle of *Apherusa glacialis*, an arctic ice-associated amphipod. ---- *Frontiers in Marine Science 8*: 772766. https://doi.org/10.3389/fmars.2021.772766

Drozdova, P., A. Saranchina, E. Madyarova, A. Gurkov & M. Timofeyev 2022. Experimental crossing confirms reproductive isolation between cryptic species within *Eulimnogammarus verrucosus* (Crustacea: Amphipoda) from Lake Baikal. —-*International Journal of Molecular Sciences 23 (18)*: 10858 https://doi.org/10.3390/ijms231810858 (Crossing experiments confirm the three molecularly separated but cryptic species are properly separated. There is no formal description of the cryptic species as separate species)

Du, B., W. Lao, C. S. Wong, K. McLaughlin & K. Schiff 2021. Scrutinizing surficial sediment along a 600-km-long urban coastal zone: Occurrence and risk assessment of fipronil and its three degradates. ---- *Science of the Total Environment 807*: 151071. https://doi.org/10.1016/j.scitotenv.2021.151071 (*Eohaustorius aestuarius*)

Durham, E. L. & K. H. White 2022. 'Best by date': reliability of species identification based on freshness of material. ---- *Georgia Journal of Science 80*: art. 68. https://digitalcommons.gaacdemy.org/gjs/vol80/iss1/68

Durkina, V. B., J. W. Chapman & N. L. Demchenko. 2022. First observations of ovary regeneration in an amphipod, *Ampelisca eschrichtii* Krøyer, 1842. —-*PeerJ 10*: e12950 https://doi.org/10.7717/peerj.12950 (Females regenerate ovaries after their reproduction at age 2 years, to possibly reproduce during an extended 3rd year of living)

Dvoretsky, A. G. & V. G. Dvoretsky 2021. Epibiotic communities of common crab species in the coastal Barents Sea: Biodiversity and infestation patterns. ---- *Diversity 14*: 6. https://doi.org/1+.3390/d14010006 (Four amphipods mentioned, among them *Ischyrocerus commensalis*, common on the two lithodids and also found on *Hyas*)

Dvoretsky, V. G. & A. G. Dvoretsky 2022. Coastal mesozooplankton assemblages during spring bloom in the Eastern Barents Sea. ---- *Biology 11*: 204. https://doi.org/10.3390/biology11020204

Emery, K. A., V. R. Kramer, N. K. Schooler, K. M. Michaud, J. R. Madden, D. M. Hubbard, R. J. Miller & J. E. Dugan 2022. Habitat partitioning by mobile intertidal invertebrates of sandy beaches shifts with the tides. ---- *Ecosphere 13*: e3920. https://doi.org/10.1002/ecs2.3920 (A study on 4 *Megalorchestia* species in California)

Equbal, J., R. Kiran Lakra, M. Savurirajan, K. Satyam & G. Thiruchitrambalam 2022. Assessing the benthic quality status of three fine sand tropical beaches from the Andaman Islands through the application of marine biotic indexes. ---- *Environmental Monitoring and Assessment 194*: 479. https://doi.org/10.1007/s10661-022-10132-6

Er, A. & S. Kayis 2022. Acute toxicity of pozzolanic cement on two crustacean species, water flea (*Daphnia magna*) and *Gammarus komareki*. ---- *Bulletin of Environmental* Contamination *and Toxicology 108*: 309-314. https://doi.org/10.1007/s00128-021-03345-x

Esposito, V., R. Auriemma, C. de Vittor, F. Relitti, L. Urbini, M. Kralj & M. C. Gambi 2022. Structural and functional analyses of motile fauna associated with *Cystoseira brachycarpa* along a gradient of ocean acidification in a CO2-Vent system off Panarea (Aeolian Islands, Italy). ---- *Journal of Marine Science and Engineering 10*: 451. https://doi.org/10.3390/jmse10040451

Fanton, H., E. Franquet, M. Logez & N. Kaldonski. 2021. Effects of temperature and a manipulative parasite on the swimming behaviour of *Gammarus pulex* in flowing water. ---- *Hydrobiologia 848*: 4467-4476. https://doi.org/10.1007/s10750-021-04655-1

Farrell, E. M., J. Beermann, A. Neumann & A. Wrede 2022. The interplay of temperature and algal enrichment intensifies bioturbation of the intertidal amphipod *Corophium volutator*. —- *Journal of Experimental Marine Biology and Ecology*: 151837 https://doi.org/10.1016/j.jembe.2022.151837 (A study from the Wadden Sea, Bioturbation is regulated by temperature, with a lower cutoff at 8°C)

Federigi, I., E. Balestri, A. Castelli, D. De Battisti, F. Maltagliati, V. Menicagli, M. Verani, C. Lardicci & A.Carducci 2022. Beach pollution from marine litter: Analysis with the DPSIR framework (driver, pressure, state, impact, response) in Tuscany, Italy. ---- *Ecological Indicators 143*: 109395. https://doi.org/10.1016/j.ecolind.2022.109395

Fenwick, G. D., M. J. Greenwood, I. D. Hogg & S. J. Meyer 2021. High diversity and local endemism in Aotearoa New Zealand's groundwater crustacean fauna. ---- *Ecology and Evolution 11(22),* 15664-15682. https://doi.org/10.1002/ece3.8220

Fernandes, F. O., M. S. Barbosa-Silva, J. F. J. Resende, M. A. A. Carneiro, G. O. Longo & E. Marinho-Soriano 2022. Amphipod choice for seaweeds under predator cues: interactions on decision-making behavior. ---- *Marine Ecology Progress Series 698*: 85-94. https://doi.org/10.3354/meps14140 (The test amphipod was *Ampithoe marcuzzii*.)

Ferreira, K. de S., B. Rani-Borges, G. L. M. Santos, S. Cardoso-Silva, L. R. M. de Sa & M. Pompeo 2021. Metals in the sediments of reservoirs: Is there potential toxicicy? ---- *Sociedade & Natureza 33:* e58794. https://doi.org/10.14393/SN-v33-2021-58794 (*Hyalella azteca*)

Fiser, C., S. Borko, T. Deli, A. Kos, E. Premate, M. Zagmajster, V. Zaksek & F. Altermatt 2022. The European Green Deal misses Europe´s subterranean biodiversity hotspots. —- *Nature Ecology and Evolution 6*: 1403-1404. https://doi.org/10.1038/s41559-022-01859-z

Fiser, C., B. Mavric, M. Govedic, A. Pekoli & M. Zagmajster 2021. Checklist of amphipod crustaceans (Crustacea: Amphipoda) in Slovenia. ---- *Natura Sloveniae 23*: 5-24. (198 species)

Frutos, I., S. Kaiser, L. Pulaski, M. Studzion & M. Blazewicz 2022. Challenges and advances in the taxonomy of deep-sea Peracarida; From traditional to modern methods. ---- *Frontiers of Marine Science 9*: 799191. https://doi.org/10.3389/fmars.2022.799191

Fu, T., O. Knittelfelder, Y. Clément, E. Testet, N. Elie, D. Touboul, K. Abbaci, A. Shevchenko, J. Lemoine, A. Chaumot, A. Salvador, D. Degli-Esposti & S. Ayciriex 2021. Shotgun lipidomics and mass spectrometry imaging unveil diversity and dynamics in *Gammarus fossarum* lipid composition. ----*iScience*: 1-44. https://doi.org/10.1016/j.isci.102115

Gasca, R. & M. E. Hendrickx 2021. Pelagic amphipods (Crustacea: Amphipoda: Hyperiidea) in western Mexico. 6. Superfamily Vibilioidea. Families Paraphronimidae and Vibiliidae. ---- *Zootaxa 5071*: 563-578. https://doi.org/10.11646/zootaxa.5071.4.5

Gasca, R., E. Suárez-Morales & M.E. Hendrickx 2021. Hyperiids (Amphipoda, Hyperiidea) collected during the TALUD cruises in western Mexico. 5. Family Amphithyridae, with the description of a new species of Amphithyropsis Zeidler. ---- *Zootaxa 5039(4),* 479-494. https://doi.org/10.11646/zootaxa.5039.4.2 (*Amphithyropsis shanti* n.sp.)

Geburzi, J. C., N. Heuer, L. Homberger, J. Kabus, Z. Moesges, K. Ovenbeck, D. Brandis & C. Ewers 2022. An environmental gradient dominates ecological and genetic differentiation of marine invertebrates between the North and Baltic Sea. ---- *Ecology and Evolution 12*: e8868. https://doi.org/10.1002/ece3.8868 (i.a. 5 *Gammarus* species)

George, S. D., B. T. Duffy, B. P. Baldigo, D. Skaros & A. J. Smith 2022. Condition of macroinvertebrate communities in the Buffalo River Area of Concern following sediment remediation. ---- *Journal of Great Lakes Research 48,* 183-194. https://doi.org/10.1016/j.jglr.2021.11.002

Georgiev, A.P., A.I. Sidorova, Y. A. Shustov & M. A. Lesonen. 2021. The Baikal amphipod *Gmelinoides fasciatus* (Amphipoda, Crustacea) in the diet of perch in the littoral zone of Lake Onega (age and seasonal characteristics). —-*Biology Bulletin of the Russian Academy of Science 48,* S24-S32. https://doi.org/10.1134/S1062359021140089 (A major part of the diet for the young age groups of the fish)

Gestin, O., C. Lopes, N. Delorme, L. Garnero, O. Geffard & T. Lacoue-Labarthe 2022. Organ-specific accumulation of cadmium and zinc in *Gammarus fossarum* exposed to environmentally relevant metal concentrations. ---- *Environmental Pollution 308*: 119625. https://doi.org/10.1016/j.envpol.2022.119625

Gianasi, B. L., C. W. McKindsey, P. Archambault, N. Simard & K. L. Howland 2022. Biodiversity of coastal epibenthic macrofauna in Eastern Canadian Arctic: Baseline mapping for management and conservation. —-*Frontiers in Marine Science 9*: 873608. https://doi.org/10.3389/fmars.2022.873608 (Amphipods among the most abundant taxa)

Gill, E. Haftor 2021. *The effect of aqueous aluminium on mortality and respiration in the amphipod* Gammarus lacustris. ---- MSc Thesis, Inland Norway University of Applied Sciences, Campus Evenstad. (Not seen)

Gillmore, M. L., G. A. V. Price, L. A. Golding, J. L. Stauber, M. S. Adams, S. L. Simpson, R. E. W. Smith & D. F. Jolley 2021. The diffusive gradients in thin films technique predict sediment nickel toxicity to the amphipod *Melita plumulosa*. ---- *Environmental Toxicology and Chemistry 40*: 1266-1278. https://doi.org/10.1002/etc.4971

Gomes, N., D. A. Costa, H. Cantallo & C. Antunes 2022. Inventory of Amphipoda (Peracarida: Senticaudata and Amphilochidea) from the international Minho River, Iberian Peninsula. ---- *Graelssia 78*: e175. https://doi.org/10.3989/graelssia.2022.v78.343 (34 species, with *Parametopa kervillei* new to Portugal)

Gomez, M., F. Barrero, J. Lopez & M. Lastra 2021. Evaluation of phenolic content of wrack debris on estuarine beaches: The effect on upper beach macrofauna. ----*Marine Ecology* 2021: e12692. https://doi.org/10.1111/maec.12692

Górska, B., S. Gromisz, J. Legezynska, T. Soltwedel & M. Wlodarska-Kowalczuk 2022. Macrobenthic diversity response to the atlantification of the Arctic Ocean (Fram Strait, $79^0$N) - A taxonomic and functional trait approach. —- *Ecological Indicators 144*: 109464 https://doi.org/10.1016/j.ecolind.2022.109464

Gouillieux, B., H. Blanchet & P. Gonzalez 2022. Redescription of *Apocorophium acutum* (Crustacea, Amphipoda, Corophiidae) with material from type locality and key of world *Apocorophium* species. —-*ZooKeys 1106*: 101-119. https://doi.org/10.3897/zookeys.1106.83340 (*Apocorophium acutus* is described with material both from the type locality (Algeria) and from where the males were described (Brittany). Additional material adds biological data. A key to world *Apocorophium* is included.)

Grabowski, J.H., C.J. Baillie, A. Baukus, R. Carlyle, F. J. Fodrie, R. K. Gittman, A. R. Hughes, D. L. Kimbro, J. Lee, H. S. Lenihan, S. P. Powers & K. Sullivan 2022. Fish and invertebrate use of restored vs. natural oyster reefs in a shallow temperate latitude estuary. —- *Ecosphere 13*: e4035 https://doi.org/10.1002/ecs2.4035

Green, M. A. A., C. Appadoo, J. K. Lowry & A. A. Myers 2021. A new genus and species of sand-hopper, *Mauritiorchestia fayetta* gen. nov., sp. nov. (Amphipoda, Talitridae) from Mauritius. ---- *Zootaxa 5068*: 295-300. https://doi.org/10.11646/zootaxa.5068.2.9

Grintsov, V. A., L. V. Bondarenki & V. A. Timofeev 2022. A New Species of the Amphipod *Melita* Leach, 1814 (Crustacea: Amphipoda: Melitidae) for the Azov-Black Sea Basin. —-*Russian Journal of Biological Invasions 13,* 191-202. https://doi.org/19.1134/S2075111722020060 (*Melita* cf *setiflagella*, new for the Black Sea - presumably introduced via ballast water)

Gross, C. P., J. E. Duffy, K. A. Hovel, M. R. Kardish, P. L. Reynolds, C. Boström, K. E. Boyer, M. Cusson, J. Eklöf, A. H. Engelen, B. Klemens Eriksson, F. J. Fodrie, J. N. Griffin, B. C. M. Hereu, M. Hori, A. R. Hughes, M. V. Ivanov, P. Joergensen, C. Kruschel, K.-S. Lee, J. Lefcheck, K. McGlathery, P.-O. Moksnes, M. Nakaoka, M. I. O'Connor, N. E. O'Connor, J. L. Olsen, R. J. Orth, B. J. Peterson, H. Reiss, F. Rossi, J. Ruesink, E. E. Sotka, J. Thormar, F. Thomas, R. Unsworth, E. P. Voigt, M. A. Whalen, S. L. Ziegler & J. J. Stachowicz 2022. The biogeography of community assembly: latitude and predation drive variation in community trait distribution in a guild of epifaunal crustaceans. ---- *Proceedings of the Royal Society B 289*: 20211762. https://doi.org/10.1098/rspb.2021.1762

Hancock, Z. B., F. O. Hardin, A. Murphy, A. Hillhouse & J. S. Johnston 2021. Rapid genomic expansion and purging associated with habitat transitions in a clade of beach crustaceans (Amphipoda: Haustoriidae). ----*Journal of Crustacean Biology 41*: 1-11. https://doi.org/10.1093/jcbiol/ruab042.

Hancock, Z. B., H. Ogawa, J. E. Light & M. K. Wicksten 2022. Origin and evolution of the Haustoriidae (Amphipoda): a eulogy for the Haustoriidira. —- *Zoological Journal of the Linnean Society 194,* 1252-1267. https://doi.org/10.1093/zoolinnean/zlab023 (Phylogenetic analysis based on COI, 28S and H3 shows that Haustoriidira is polyphyletic, with its contained families spread across the Amphipoda. The age of Haustoriidae (as diverged from gammaroids) is estimated to the Palaeocene. The authors suggest a series of taxonomic rearrangements and erect the new genus *Cryptohaustorius*.)

Haram, L. E., J. T. Carlton, L. Centurioni, M. Crowley, J. Hafner, N. Maximenko, C. Clarke Murray, A. Y. Shcherbina, V. Hormann, C. Wright & G. M. Ruiz 2021. Emergence of a neopelagic community through the establishment of coastal species on the high seas. ---- *Nature Communications 12*: 6885. https://doi.org/10.1038/s41467-021-27188-6 (Floating plastic on the sea surface supports a novel community).

Harper, K. E., L. A. Scheinberg, K. E. Boyer & E. E. Sotka 2022. Global distribution of cryptic native, introduced and hybrid lineages in the widespread estuarine amphipod *Ampithoe valida*. —-*Conservation Genetics 23,* 791-806. https://doi.org/10.1007/s10592-022-01452-8 (*A valida* likely originated in the North Pacific and spread across the Arctic to the Atlantic 3 million years ago, with a southward spread in both lineages later. Study based on mitochondrial SNPs)

Hasik, A. Z., D. de Angeli Dutra, J.-F. Doherty, M. A. Duffy, R. Poulin & A. M. Siepielski 2022. Resetting our expectations for parasites and their effects on species interactions: a meta-analysis. ---- *Ecology Letters*, in press. ---- https://doi.org/10.1111/ele.14139

Heiser, S., C. D. Amsler, C. J. Brothers, M. O. Amsler, A. J. Shilling, L. Bozarth, C. B. Davis, J. B. McClintock & B. J. Baker. 2022. Who cares about chemical defenses—the macroalgal producer or its main grazer? ---- *Journal of Chemical Ecology 48,* 416-420. https://doi.org/10.1007/s10886-022-01358-2 (Both! *Plocamium* sp grazed by *Paradexamine fissicauda*)

Hendrycks, E. & C. De Broyer 2022. New deep-sea Atlantic and Antarctic species of *Abyssorchomene* De Broyer, 1984 (Amphipoda, Lysianassoidea, Uristidae) with a redescription of *A. abyssorum* (Stebbing, 1888). —-*European Journal of Taxonomy 825,* 1-76. https://doi.org/10.5852/ejt.2022.825.1829 (*Abyssorchomene patriciae* sp. nov. and *A. shannonae* sp. nov from the north-east/central north Atlantic are described. Redescriptions of *A. abyssorum* and *A. scotianensis*, based on new material, from the south Atlantic and Southern Ocean respectively, are also provided.)

Henry, J., Y. Bai, F. Kreuder, M. Saaristo, J. Kaslin & D. Wlodkowic 2022. A miniaturized electrothermal array for rapid analysis of temperature preference behaviors in ecology and ecotoxicology. —-*Environmental Pollution 314*: 120202 https://doi.org/10.1016/j.envpol.2022.120202 (*Austrochiltonia subtenuis* one of the test-animals)

Hiki, K., K. Asahina, K. Kato, T. Yamagishi, R. Omagari, Y. Iwasaki, H. Watanabe & H. Yamamoto 2021. Acute toxicity of a tire rubber-derived chemical, 6 PPD Quinone, to freshwater fish and crustacean species. ---- *Environmental Science and Technology Letters 8,* 779-784. https://doi.org/10.1021/acs.estlett.1c00453 (i.a. *Hyalella azteca*)

Hiki, K., F. C. Fischer, T. Nishimori, H. Watanabe, H. Yamamoto & S. Endo 2021. Spatiotemporal distribution of hydrophobic organic contaminants in spiked-sediment toxicity tests: Measuring total and freely dissolved concentrations in pore and overlying water. ---- *Environmental Toxicity 40*: 3148-3158. https://doi.org/10.1002/etc.5199 (*Hyalella azteca*)

Hiki, K. & F. Nakajima 2022. Microplastic ingestion by a benthic amphipod in different feeding modes. ---- *Journal of Water and Environment Technology 20* (5): 137-144. https://doi.org/10.2965/jwet.22-057 (*Grandidierella japonica*)

Hillyer, K. E., E. Raes, K. Karsh, B. Holmes, A. Bisett & D. J. Beale 2021. Metabolomics as a tool for *in situ* study of chronic metal exposure in estuarine invertebrates. ---- *Environmental Pollution 292*: 118408. https://doi.org/10.1016/j.envpol.2021.118408. (i. a. *Paracorophium* sp.)

Höpel, C. G., D. Yeo, M. Grams, R. Meier & S. Richter 2022. Mitogenomics supports the monophyly of Mysidacea and Peracarida (Malacostraca). ---- *Zoologica Scripta 51*, 603-613. https://doi.org/10.1111/zsc.12554

Hu, S.-Y., C.-Y. Hsieh, H.-U. Dahms, Y.-H. Tseng, J. Chen, M.-C. Wu, J.-H. Kim & C.-H. Liu 2021. Toxic effects of heavy metals and organic polycyclic aromatic hydrocarbons in sediment porewater on the amphipod *Hyalella azteca* and zebrafish *Brachydanio rerio* embryos from different rivers in Taiwan. ---- *Applied Sciences 11*: 8021. https://doi.org/10.3390/app11178021

Hu, Y., S. Li, H. Liu, S.-T. Kim, D. K. Kurenshchihov & Z. Hou 2022. Ancient volcanos as species pumps: A case study of freshwater amphipods in Northeast Asia. ---- *Molecular Ecology 31,* 343-355. https://doi.org/10.1111/mec.16223 (The *Gammarus nekkensis* complex)

Huang, A. 2022. *Inter-and intra-species sensitivity of aquatic arthropods to imidacloprid and flupyradifurone.* ---- PhD Thesis, Wageningen University. https://doi.org/10.18174/574627 (Not seen. *Gammarus pulex*)

Huang, A., A. Mangold-Döring, A. Focks, C. Zhang & P. J. Van den Brink 2022. Comparing the acute and chronic toxicity of flupyradifurone and imidacloprid to non-target aquatic arthropod species. ---- *Ecotoxicology and Environmental Safety 243*: 113977. https://doi.org/10.1016/j.ecoenv.2022.113977 (*Gammarus pulex*)

Huang, A., A. Mangold-Döring, H. Guan, M.-C. Boerwinkel, D. Belgers, A. Focks & P. J. Van den Brink 2022. The effect of temperature on toxicokinetics and the chronic toxicity of insecticides towards *Gammarus pulex*. —-*Science of the Total Environment 856*: 158886 https://doi.org/10.1016/j.scitotenv.2022.158886

Huang, A., I. Roessink, N. W. Van den Brink & P. J. Van den Brink 2022. Size- and sex-related sensitivity differences of aquatic crustaceans to imidocloprid. ---- *Ecotoxicology and Environmental Safety 242*: 113917. https://doi.org/10.1016/j.ecoenv.2022.113917 (*Gammarus pulex*)

Hupało, K., D. Copilaş-Ciocianu, F. Leese & M. Weiss 2022. Morphology, nuclear SNPs and mate selection reveal that COI barcoding overestimates species diversity in a Mediterranean freshwater amphipod by an order of magnitude. ----*Cladistics,* in press. https://doi.org/10.1111/cla.12520 (*Echinogammarus sicilianus*)

Hupało, K., S. Schmidt, T.-H. Macher, M. Weiss & F. Leese 2022. Fresh insights into Mediterranean biodiversity: environmental DNA reveals spatio-temporal patterns of stream invertebrate communities on Sicily. ---- *Hydrobiologia 849*: 155-173. https://doi.org/10.1007/s10750-021-04718-3

Hyndes, G. A., E. L. Berdan, C. Duarte, J. E. Dugan, K. A. Emery, P. A. Hambäck, C. J. Henderson, D. M. Hubbard, M. Lastra, M. A. Mateo, A. Olds & T. A. Schlacher 2022. The role of inputs of marine wrack and carrion in sandy-beach ecosystems: a global review. ----- *Biological Reviews Cambridge Philosophical Society 97,* 2127-2161. https://doi.org/10.1111/brv.12886

Ipek, M. & M. Özbek 2022. An updated and annotated checklist of the Malacostraca (Crustacea) species inhabited Turkish inland waters. ---- *Turkish Journal of Zoology 46*: 14-66. https://doi.org/10.3906/zoo-2109-12 (121 amphipod species)

Isa Miranda, A. V. & M. A. Peralta 2022. A new *Hyalella* species (Crustacea: Amphipoda: Hyalellidae) from South American Highlands (Argentina) with comments on its cuticular ultrastructure. ---- *Zootaxa 5105*: 202-218. https://doi.org/10.11646/zootaxa.5015.2.2 (*H. fatimae* n. sp. from near Chorillos, Salta prov., Los Andes dept., in peatbog. Many data on chaetotaxy. [I hope I got the surnames correct. WV])

Jamieson, A. J., H. A. Stewart, J. N. J. Weston & C. Bongiovanni 2021. Hadal fauna of the South Sandwich Trench, Southern Ocean: Baited camera survey from the Five Deeps Expedition. ---- *Deep-Sea Research II 194*: 104987. https://doi.org/10.1016/j.dsr2.2021.104987 (Four amphipod species found: *Eurythenes andhakarae, Bathycallisoma schellenbergi*, *Hirondellea dubia*, and *Tryphosella* sp.)

Jarzembowski, E. 2021. Fossil insects 10 years after the Geological Conservation Review (Great Britain). ---- *Palaeoentomology 004*: 313-318. https://doi.org/10.11646/palaeoentomology.4.4.3

Jaume, D. & R. Vonk 2021. A new species of *Salentinella* Ruffo, 1947 from a thermo-mineral cave in southern Spain, with comments on the systematic position of the family Salentinellidae. ---- *Journal of Crustacean Biology 41(3*): 1-11. https://doi.org/10.1093/jcbiol/ruab041 (*Salentinella casteresi* n. sp. from Sierra Elvira, Granada, Spain. A key to all Salentinellidae is provided. The authors question the current placement of the family in the Senticaudata.)

Jażdżewska, A. M., T. Horton, E. Hendrycks, T. Mamos, A. C. Driskell, S. Brix & P. M. Arbizu 2021. Pandora's Box in the deep sea—intraspecific diversity patterns and distribution of two congeneric scavenging amphipods. ---- *Frontiers in Marine Science 8*: 750180. https://doi.org/10.3389/fmars.2021.750180 (Deals with *Paralicella tenuipes* and P. *caperesca*; the latter seems to be a species complex.)

Jażdżewska, A. M., A. H. S. Tandberg, T. Horton & S. Brix 2021. Global gap-analysis of amphipod barcode library. ---- *Peer Journal 9*: e12352. https://doi.org/10.7717/peerj.12352 (Only 10% of amphipod species represented hitherto, with very uneven coverage both geographically and taxonomically)

Jelassi, R., H. Khemaissia, A. Ayari, D. Bohli-Abderrazek, C. Gemari, M. Raimond, C. Souty-Grosset & K. Nasri-Ammar 2021. Physiological and behavioral responses of *Orchestia gammarellus* (Amphipoda, Talitridae) towards trace elements contaminated soil. ---- *Microscopy Research Technique 85,* 1713-1722. https://doi.org/10.1002/jemt.24033

Jermacz, L., H. Kletkiewicz, M. Poznanska-Kakareko, M. Klimek & J. Kobak 2021. Chronic predation risk affects prey escape abilities through behavioral and physiological changes. ---- *Behavioral Ecology 33,* 298-306. https://doi.org/10.1093/beheco/arab142 (Studies on *Dikerogammarus villosus* and *Gammarus jazdzewskii*)

Jermacz, L. & J. Kobak 2022. On the importance of concomitant conditions: light and conspecific presence modulate prey response to predation cue. ---- *Current Zoology*: zoac043. https://doi.org/10.1093/cz/zoac043 (*Dikerogammarus villosus* and *Gammarus jazdzewskii*.)

Jeunen, G.-J., T. Lipinskaya, H. Gajduchenko, V. Golovenchik, M. Moroz, V. Rizevsky, V. Semenchenko & N. J. Gemmel 2022. Environmental DNA (eDNA) metabarcoding surveys show evidence of non-indigenous freshwater species invasion to new parts of Eastern Europe. —- *Metabarcoding and Metagenomics 6,* 171-186 https://doi.org/10:3897/mbmg.6.68575 (Several Amphipoda listed in figure and table 2)

Johnson, D. S. 2022. Are amphipods *Orchestia grillus* (Bosc, 1802) (Amphipoda: Talitridae) infected with the trematode *Levinseniella byrdi* (Heard, 1968) drawn to the light? —-*Journal of Crustacean Biology 42*: ruac017. https://doi.org/10.1093/jcbiol/ruac017 (Not really. But it seems the infection neutralizes their photophobia and their fear of being touched.)

Just, J. 2022. Tirons of the world: a review of 'tironid' amphipods, descriptions of new genera and species, and establishment of a new subfamily Tironinae Stebbing, 1906 stat.nov. (Crustacea, Synopiidae). ---- *Zootaxa 5139*: 1-89. https://doi.org/10.11646/zootaxa.5139.1.1 (This is that rare object: a complete family revision!. It starts out with a key to synopiid genera, and erects the subfamily Tironinae (earlier at family level). There are also keys to Tironinae genera and to species in multispecies genera. New taxa are *Tiron lilljeborgi* (NSW, Australia), *T. canadense* (Vancouver Island, Canada), *T. sagamiense* (Sagami Sea, Japan), *Tironella* n. gen., with the species *T. bathyalis* (NSW, Australia); *T. pervicax* (transferred from Pseudotiron), and *T. altifrons* (transferred from *Tiron*). The new genus *Glandulotiron* is species-rich and contains *G. pilocaputis* (Northwest shelf, W. Australia), *G. salsevisio* (NW shelf, W. Australia*), G. hexamatius* (E. Bass Strait, Tasmani), *G. spinipes* (Bass Strait, Victoria), *G. concavus* (W. Bass Strait, Tasmania), *G. septimus* (Bass Strait, Flinders Island), *G. bassianus* (off Eden, NSW), *G. meruspinosus* (Twofold Bay, NSW), *G. curvispinus* (Jervis Bay, NSW*), G. aotearoensis* (Otago Shelf, New Zealand), *G. postremus* (W. Bass Strait, Victoria), *G. australis* (transferred from *Tiron*), *G. griffithsi* (False Bay, S. Africa), *G. intermedius* (transferred from *Tiron*), and *G. quadrioculatus* (transferred from *Tiron*). The genus *Pseudotiron* contains the species *P. bouvieri, P. coas, P. golens*, and *P. miratus* (NW shelf, W. Australia). *Metatiron* contains *M. brevidactylus* and 3 spp not dealt with here, and *Minitiron* n. gen. contains *M. orpheus* (Orpheus Island, Queensland), *M. bellairsi, M. thompsoni, M. ovatibasis*, and *M. galeatus* (all transferred from *Tiron*), and *M. caecus* (transferred from *Metatiron*). There are also distribution maps for the genera.) (NB. In my opinion the genus *Tiron* is masculine; it and the derived genera on __*Tiron* should at any rate all have the same gender. WV)

Kaim-Malka, R. A., D. Bellan-Santini & J. C. Dauvin 2021. Complement to the knowledge of the *Haploops* species (Crustacea, Gammaridea, Ampeliscidae), with the description of two new species from North Atlantic Ocean (Contribution to the knowledge of the *Haploops* genus.10). ---- *Zootaxa 5048*: 151-175. https://doi.org/10.11646/zootaxa.5048.2.1 (Deals with *Haploops faroensis* n. sp. (60*11'N, 8*17'W, 923m), *H. truncata* n. sp. (67*52'N, 22*15'W, 768m), *H. vallifera, H. similis*, and *H. spinosa*, here considered a valid species. A key to all *Haploops* species is provided, as well as an extensive table listing the distinctive characteristics of the five species here treated.)

Kalinkina, N. M., M. B. Zobkov, M. V. Zobkova & N. E. Galakhina 2022. Assessment of the microplastics size range and ingestion intensity by *Gmelinoides fasciatus* Stebbing, an invasive species of Lake Onega. ---- *Environmental Toxicology & Chemistry 41,* 184-192. https://doi.org/10.1002/etc.5257

Käß, M., M. Chikina, A. Vedenin, S. E. A. Pineda-Metz & T. Soltwedel 2021. Traits and drivers: Functioning of macrobenthic communities across the deep Fram Strait (Arctic Ocean). —-*Ecological Indicators 123*: 107324 https://doi.org/10.1016/j.ecolind.2020.107324

Katouzian, A.-R., A. Sari, J. N. Macher, M. Weiss, A. Saqboori, F. Leese & A. M. Weigand 2022. Drastic underestimation of amphipod diversity in the endangered Irano-Anatolian and Caucasus biodiversity hotspots. ---- *Scientific Reports 6*: 22507. https://doi.org/10.1038/srep22507 (42 genetically identified freshwater species in just 5 recognized morphospecies, many in *Gammarus lacustris* and *G. komareki*.)

Kennedy, M. D., A. Barberio & V. P. Connaughton 2022. Novel experimental apparatus for laboratory measurements of phototaxis: A comparison between amphipod species. —- *Journal of Crustacean Biology 42*: ruab085. https://doi.org/10.1093/jcbiol/ruab085 (Comparison between *Stygobromus tenuis potomacus* and *Crangonyx shoemakeri*)

Kest, P., M. Hiltunen, U. Strandberg, J. Vesterinen, S. Taipale & P. Kankaala 2021. Lake browning impacts community structure and essential fatty acid content of littoral invertebrates in boreal lakes. ---- *Hydrobiologia 849*: 967-984. https://doi.org/10.1007/s10750-021-04760-1 (*Hyalella azteca*)

Khaladji-Pirbalouty, V., K. Malekmohammad, H. Oraei & S. N. Tabatabaei 2022. Identifying closely related species of the genus *Gammarus* (Crustacea, Amphipoda) using geometric morphometrics. ---- *Iranian Journal of Animal Biosystematics 17,* 137-146. https://doi.org/10.22067/IJAB.2022.70768.1013 (Shape variations in ep.3 in 6 closely related *Gammarus* species)

Khattab, A. M., H. A. Abo-Taleb, A. M. Abdelaziz, M. A. M. El-Tabakh, M. M. M. El-feky & M. Abu-Elghait 2022. *Daphnia magna* and *Gammarus pulex*, novel promising agents for biomedical and agricultural applications. ---- *Scientific Reports 12*: 13690. https://doi.org/10.1038/s42598-022-17790-z

Khim, J. S., C. Lee, S. J. Song, H. Bae, J. Noh, J. Lee, H.-G. Kim & J.-W. Choi 2021. Marine biodiversity in Korea: a review of macrozoobenthic assemblages, their distributions, and long-term community changes from human impacts. ---- *Oceanography and Marine Biology:* 483-532. https://doi.org/10.1201/9781003138846-6 (Not seen)

Kim, J., M. N. Haque, S. Lee, D.-H. Lee & J.-S. Rhee 2022. Exposure to environmentally relevant concentrations of polystyrene microplastics increases hexavalent chromium toxicity in aquatic animals. ---- *Toxics 10:* 563. https://doi.org/10.3390/toxics10100563 (i.a. *Hyalella azteca)*

Kim, J., H.-Y. Yun, E.-J. Won, H. Choi, S.-H. Youn & K.-H. Shin 2022. Influences of seasonal Variability and Potential Diets on Stable Isotopes and Fatty Acid Compositions in Dominant Zooplankton in the East Sea, Korea. —-*Journal of Marine Science and Engineering 10*: 1768. https://doi.org/10.3390/jmse10111768

King, N. G., P. J. Moore, C. Wilding, H. L. Jenkins & D. A. Smale 2021. Multiscale spatial variability in epibiont assemblage structure associated with stipes of kelp *Laminaria hyperborea* in the northeast Atlantic. ---- *Marine Ecology Progress Series 672*: 33-44. https://doi.org/10.3354/meps13794

King, R. A., E. P. Fagan-Jeffries, T. M. Bradford, D. N. Stringer, T. L. Finston, S. A. Halse, S. M. Eberhard, G. Humphreys, B. F. Humphreys, A. D. Austin & S. J. B. Cooper 2022. Cryptic diversity down under: defining species in the subterranean amphipod genus *Nedsia* Barnard & Willliams, 1995 (Hadzioidea: Eriopisidae) from Pilbara, Western Australia. —- *Invertebrate Systematics 36,* 113-159. https://doi.org/10.1071/IS21041 (13 new species of *Nedsia* are described and eight species are synonymised, using morphology as well as molecular (COI and 28S) and distributional data. *Nedsia* is shown as functionally morphologically cryptic. Species descriptions of *N. canensis* sp. nov., *N. cheela* sp. nov., *N. erinnae* sp. nov., *N. mcraeae* sp. nov., *N. nanutarra* sp. nov., *N. pannawonica* sp. nov., *N. quobba* sp. nov., *N. robensis* sp. nov., *N. shawensis* sp. nov., *N. wanna* sp. nov., *N. weelumurra* sp. nov., *N. wyloo* sp. nov. and *N. yarraloola* sp. nov. are all presented with a "reduced" taxonomic description, each still with morphology and genetic markers.)

Kirilovsky, E. R., O. L. Anguiano, G. A. Bongiovanni & A. Ferrari 2021. Effects of acute arsenic exposure in two different populations of *Hyalella curvispina* amphipods from Patagonia Argentina. ---- *Journal of Toxicology and Environmental Health A 85 (2),* 71-88. https://doi.org/10.1080/15287394.2021.1975589

Kniesz, K., A. M. Jażdżewska, P. M. Arbizu & T. C. Kihara 2022. DNA Barcoding of Scavenging Amphipod Communities at Active and Inactive Hydrothermal Vents in the Indian Ocean. —- *Frontiers in Marine Science 8*: 752360. https://10.3389/fmars.2021.752360 (Higher species diversity at inactive vent than at active vent sites)

Kobak, J., M. Rachalewski & K. Bącela-Spychalska 2021. What doesn't kill you doesn't make you stronger: Parasites modify interference competition between two invasive amphipods. ----- *NeoBiota 69*: 51-74. https://doi.org/10.3897/neobiota.69.73734 (The amphipods are *Dikerogammarus villosus* and *D. haemobaphes*, the parasite *Cucumispora dikerogammari)*

Kodama, M., J. Hayakawa, S. Oba & T. Kawamura 2022. Seasonal dispersal of gammaridean amphipods away from *Sargassum* beds in relation to macroalgal host defoliation. ---- *Marine Ecology Progress Series 681*: 117-128. https://doi.org/10.3354/meps13903

Kodama, M., K. N. White, T. K. Hosoki & R. Yoshida 2022. Leucothoid amphipod and terebellid polychaete symbiosis, with description of a new species of the genus *Leucothoe* Leach, 1814 (Crustacea: Amphipoda: Leucothoidae). ---- *Systematics and Biodiversity 20* (1): 2118389. https://doi.org/10.1080/14772000.2022.2118389 *(Leucothoe vermicola* n. sp. lives in the burrows of terebellid polychaetes. Many data on the biology of the association.)

Kohlbach, D., L. Smik, S. T. Belt, H. Hop, A. Wold, M. Graeve & P. Assmy 2022. A multi-trophic marker approach reveals high feeding plasticity in Barents Sea under-ice fauna 2022. —- *Progress in Oceanography 208*: 102895 https://doi.org/10.1016/j.pocean.2022.102895 (*Apherusa glacialis* and *Eusirus holmii* examined, *A. glacialis* "surprisingly plastic in feeding habits")

Kralj, T., R. Ćuk, D. Valić, S. Schulz & K. Žganec 2022. The relationship between alien crustaceans and pollution in Croatian large rivers: implications for biological monitoring. ---- *Hydrobiologia 849,* 3315-3334. https://doi.org/10.1007/s10750-022-04936-3

Kralj, T., K. Žganec, R. Ćuk & D. Valić 2022. Contribution of alien peracarid crustaceans to the biocontamination of benthic macroinvertebrate assemblages in Croatian large rivers. ---- *Limnetica 41 (2),* 181-199. https://doi.org/10.23818/limn.41.24

Krapp, R.H. 2022. Living on the dark side? Investigations into under-ice light climate and sympagic amphipods. —-*PhD-thesis UiT the Arctic University of Norway*. (Synthesis of submitted manuscripts and published articles) https://munin.uit.no/bitstream/handle/10037/25272/thesis.pdf?sequence=2&isAllowed=y (Thesis discusses the physiological effects of light and UVR on sea-ice-associated amphipods both from Arctic and Antarctic, in a combination of field- and laboratory studies.)

Krapp-Schickel, T. & S. Lo Brutto 2022. Establishment of the nomenclatural status of two nomina, *Stenothoe bella* Krapp-Schickel & Lo Brutto, 2015 and *Stenothoe levantina* Krapp-Schickel & Lo Brutto, 2015 (Crustacea, Peracarida), unavailable for the International Code of Zoological Nomenclature. ---- *Zootaxa 5092*: 247-248. https://doi.org/10.11646/zootaxa.5092.2.7

Krodkiewska, M., T. Rewicz, K. Cebulska, A. Koczorowska & A. Konopacka 2021. Distribution pattern of the brackish *Apocorophium lacustre* (Vanhoffen, 1911) (Amphipoda: Corophiidae) and the structure of the amphipod assemblages in the upper Oder River catchment. ---- *International Review of Hydrobiology 106*: 149-163. https://doi.org/10.1002/iroh.202002062

Krupa, P. M., G. R. Lotufo, E. J. Mylroie, L. K. May, K. A. Gust, A. N. Kimble, M. G. Jung, J. A. Boyda, N. Garcia-Reyero & D. W. Moore 2022. Chronic aquatic toxicity of perfluorooctane sulfonic acid (PFOS) to *Ceriodaphnia dubia, Chironomus dilutus, Danio rerio*, and *Hyalella azteca.* ---- *Ecotoxicology and Environmental Safety 241*: 113838. https://doi.org/10.1016/j.ecoenv.2022.113838

Kuehr, S., D. Esser & C. Schlechtriem 2022. Invertebrate species for the bioavailability and accumulation assessment of manufactured polymer-based nano- and microplastics. ---- *Environmental Toxicology and Chemistry 41*: 961-974. https://doi.org/10.1002/etc.5315. (*Hyalella azteca* one of 3 species used)

Kuehr, S., H. Windisch, C. Schlechtriem, G. Leon, G. Gasparini & S. Gimeno 2022. Are fragrance encapsulates taken up by aquatic and terrestrial invertebrate species? ---- *Environmental Toxicology and Chemistry 41(4),* 931-943. https://doi.org/10.1002/etc.5202 (i. a. *Hyalella azteca*)

Kurbatova, S. A., N. A. Berezina, A. S. Mavrin & N. G. Otyukova 2022. Metabolic rate in hydrobionts of different ecological groups in an experiment. ---- *Inland Water Biology 15*: 522-525. https://doi.org(/10.1134/S1995082922040368 (i.a. *Hyalella azteca*)

Kurina, E. M., D. G. Seleznev & A. N. Sherysheva 2022. Distribution of alien species of macrozoobenthos and the species cenotic complexes in the Kama Reservoirs. ---- *Russian Journal of Biological Invasions 13*: 64-73.

Kusi, J. & K. J. Maier 2021. Evaluation of silver nanoparticle acute and chronic effects on freshwater amphipod (*Hyalella azteca)*. ---- *Aquatic Toxicology 242*: 1106016. https://doi.org/10.1016/j.aquatox.2021.106016

Labay, V.S. 2022. Review of amphipods of the family Pleustidae Buchholz, 1874 (Amphipoda) from the coastal waters of Sakhalin Island (Far East of Russia). II. Subfamily Eosymtinae Bousfield & Hendrycks, 1994. —- *Zootaxa 5125*: 547-562. https://doi.org/10.11646/zootaxa.5125.5.5 (*Eosymtes magnumoculis* sp. nov. from Sakhalin Island and Kamchatka Peninsula. A key to both the genera of Eosymtinae as well as to the species of *Eosymtes* is included.)

Labay, V. S. 2022. *Desdimelita spicatimanus* a new species of Melitidae Bousfield, 1973 (Crustacea: Amphipoda: Hadziida) from the Sea of Okhotsk. ---- *Zootaxa 5169*: 347-358. https://doi.org/10.11646/zootaxa.5169.4.4 (Only females collected, hence the generic position is not entirely certain. With a key to all *Desdimelita*)

Larson, D. M., D. DeJong, M. J. Anteau, M. J. Fitzpatrick, B. Keith, E. G. Schilling & B. Thoele 2022. High abundance of a single taxon (amphipods) predicts aquatic macrophyte biodiversity in prairie wetlands. ----*Biodiversity and Conservation 31,* 1073-1093. https://doi.org/10.1007/s10531-022-02379-9 (*Gammarus lacustris* and *Hyalella azteca*)

Laurino, I. R. A., H. H. Checon, G. N. Corte & A. Turra 2022. Does coastal armoring affect biodiversity and its functional composition on sandy beaches? ---- *Marine Environmental Research 181*: 105760. https://doi.org/10.1016(j.marenvres.2022.105760 (A Brazilian study)

Ledesma, M., E. Gorokhova, A. Garbaras, L. Röjning, B. Brena & A. M. L. Karlsson 2022. High capacity for dietary specialist consumer population to cope with increasing cyanobacterial blooms. —-*Scientific Reports 12*: 22169 https://doi.org/10.1038/s41598-022-26611-2 (*Monoporeia affinis* is study organism)

Lee, S., T. Tobino & F. Nakajima 2022. Selection of formulated sediment and feeding condition for 10-day spiked-sediment toxicity test with estuarine amphipod *Grandidierella japonica.* ---- *Science of the Total Environment 823*: 153808. http://dx.doi.org/10.1016/j.scitotenv.2022.153808

Leeuwis, R. H. J. & A. K. Gamperl 2022. Adaptations and plastic phenotypic responses of marine animals to the environmental challenges of the high intertidal zone. ---- *Oceanography and Marine Biology: An Annual Review 60*: 625-680. https://doi.org/10.1201/9781003288602-13

Leitinger, J., L. Schüler & S. Nestler 2021. Among us: first record of the non-indigenous amphipod *Incisocalliope aestuarius* (Watling & Maurer, 1973) in Germany. ---- *BioInvasion Records 10 (4)*: 875-884. https://doi.org/10.3391/bir.2021.10.4.12

Li, W., F. Wang, S. Jiang, B. Pan, J. Chan & Q. Xu 2021. The adaptive evolution and gigantism mechanisms of the hadal “supergiant” amphipod *Alicella gigantea.* ---- *Frontiers of Marine Science 8*: 743663. https://doi.org/10.3389/fmars.2021.743663

Limberger, M., D. S. Castiglioni & D. A. S. Graichen 2021. A new species of freshwater amphipod (Crustacea, Peracarida, Hyalellidae) from Southern Brazil. ---- *Zootaxa 5026*: 182-200. https://doi.org/10.11646/zootaxa.5026.2.2 (*Hyalella longipropodus* n. sp. from Palmeira das Missões, Rio Grande do Sul state. The extensive table 3 compares the new species with others from the general area)

Limberger, M., S. Santos & D. S. Castiglioni 2022. *Hyalella luciae* (Crustacea, Amphipoda, Hyalellidae)—a new species of freshwater amphipod from Southern Brazil. ---- *Zootaxa 5174*: 568-582. https://doi.org/10.11646/zootaxa.5174.5.5 (Collected in the municipality of São Pedro das Missões, Rio Grande del Sul state, Brazil. The new species is extensively compared with 4 other *Hyalella* from the same state)

Lipaeva, P., K. Vereshchagina, P. Drozdova, L. Jakob, E. Kondrateva, M. Lucassen, D. Bedulina, M. Timofeyev, P. Stadler & T. Luckenbach 2021. Different ways to play it cool: transcriptomic analysis sheds light on different activity patterns of three amphipod species under long-term cold exposure. ---- *Molecular Ecology 30,* 5735-5751. https://doi.org/10.1111/mec.16164 (*Eulimnogammarus verrucosus, Eu. cyaneus & Gammarus lacustris*).

Liu, H., Y. Tong, Y. Zheng, S. Li & Z. Hou 2022. Sea-land transition drove terrestrial amphipod diversification in East Asia, with a description of a new species. ---- *Zoological Journal of the Linnean Society 196,* 940-958. https://doi.org/10.1093/zoolinnean/zlab119 (The new species is the talitrid *Morinoia aosen* Hou n. sp. (Chaoyang district, Beijing).)

Liu, Q., S. Jiang, W. Li, B. Pan & Q. Xu 2022. Trimethylamine N-Oxide (TMAO) and Trimethylamine (TMA) determinations of two hadal amphipods. ---- *Journal of Marine Science and Engineering 10*: 454. https://doi.org/10.3390/jmse10040454 (*Hirondellea gigas* and *Alicella gigantea*)

Lo Brutto, S., E. Schimmenti, D. Iaciofano, H. Lubinevsky, M. Cesari & R. Guidetti 2022. The morphological diversity within a species can obscure the correct identification. —-*Zoologischer Anzeiger 299,* 106-114. https://doi.org/10.1016/j.jcz.2022.05.011 (This paper will definitely help with the correct identification of *Cheiriphotis mediterranea*, as six morphotypes are described based on male gnathopod 2, and a COI barcode is provided.)

Loghmannia, J., A. Nasrolahi, M. Rezaie-Atagholipour & B. H. Kiabi 2021. Epibiont assemblages on nesting hawksbill turtles show site-specificity in the Persian Gulf. ---- *Frontiers in Ecology and Evolution 9:* 690022. https://doi.org/10.3389/fevo.2021.690022

Lolas, A., I. T. Karapanagiotidis, P. Panagiotaki & D. Vafidis 2021. Spreading and establishment of the non-indigenous species *Caprella scaura* (Amphipoda: Caprellidae) in the central region of the Aegean Sea (Eastern Mediterranean Sea). ---- *Journal of Marine Science and Engineering 9*: 857. https://doi.org/10.3390/jmse9080857

Longenecker, K. & A. Myers 2021. New species of *Bemlos* Shoemaker (Amphipoda, Senticaudata, Aoridae) from the Hawaiian Islands and Madagascar. ---- *Bishop Museum Occasional Papers 142*: 11-19. (Deals with *Bemlos kaholaloa* n. sp. (Mamala Bay, Oahu,

Hawaii), *B. ledoyeri* n. sp. (Madagascar = *B. tridens* s. Ledoyer 1979, non *B. tridens* (Schellenberg)), and *B. tridens*.)

Lopez, E. 2022. Peracarid assemblages in a human-disturbed location from south-west Mediterranean Sea: Role of surface orientation and phytal structure of the habitat. ---- *Thalassas. an International Journal of Marine Sciences* 39*; 1175-1186.* https://doi.org/10.1007/s41208-022-00455-z

Lörz, A.-N., S. Kaiser, J. Oldeland, C. Stolter, K. Kürzel & S. Brix 2021. Biogeography, diversity and environmental relationships of shelf and deep-sea benthic Amphipoda around Iceland. ---- *PeerJ 9*:e11898 https://doi.org/10.7717/peerj.11898 (Depth is the main factor influencing distribution, followed by salinity and temperature)

Lörz, A.-N., J. Oldeland & S. Kaiser 2022. Niche breadth and biodiversity change derived from marine Amphipoda species off Iceland. —-*Ecology and Evolution 12*: e8802 https://doi.org/10.1002/ece3.8802

Loskutova, O. A. & M. A. Baturina 2022. Macrozoobenthos communities in small tundra lakes in the european northeast of Russia. —- *Inland Water Biology 15*: 850-858 https://doi.org/10.1134/S1995082922060128

Loureiro, T. G., K. Peters & T. B. Robinson 2021. Dropping plates to pick up aliens: towards a standardized approach for monitoring alien fouling species. ---- *African Journal of Marine Science 43,* 483-497. https://doi.org/10.2989/1814232x.2021.1989488

Loveridge, A., D. S. Smith & J. C. McGeer 2021. Dissolved organic matter mitigates the acute toxicity of Thulium but Ca, Mg and Na do not. ---- *Archives of Environmental Contamination and Toxicology 81,* 637-647. https://doi.org/10.1007/s00244-021-00898-0 (Thulium is one of the rare earth elements)

Lovvorn, J. R. & M. L. Brooks 2021. Feeding on epibenthic zooplankton by Long-tailed Ducks: patch structure, profitability, and food web implications. ---- *Ecosphere 12*: e03780. https://doi.org/10.1002/ecs2.3780 (*Onisimus glacialis*)

Lowry, J. K. & A. A. Myers, 2022. Platorchestiinae subfam. nov. (Amphipoda, Senticaudata, Talitridae) with the description of three new genera and four new species. ---- *Zootaxa 5100*: 1-53. https://doi.org/10.11646/zootaza.5100.1.1 (This is a revision of the Platorchestiinae new subfamily. Descriptions of *Cariborchestia zerophila, Chroestia lota, Cocorchestia* n. gen. with *C. fritzi* and *C. margaritae, Demaorchestia* new genus, with *D. hatakejima n. sp., D. joima* n. sp. (Tanabe Bay, Wakayama pref., = *Orchestia platensis* Morino, 1975), *D. joi* (Stock & Biernbaum, 1994), *D. mie* n. sp. (Mie pref. Japan), *D. parapacifica* (Kim, Jung & Min), and *D. pseudojoi* n. sp. (= *P. joi* s Miyamoto & Morino, 2004), *Insularorchestia* n. gen., with *I. ashmole*orum (Stock, 1996), *I. monodi* (Mateus, Mateus & Afonso, 1986) and *I. susorum* n. sp. (Ascension Island). *Laniporchestia lanipo, Mauritiorchestia fayetta, Mexorchestia carpenteri, Miyamotoia spinolabrum*, and *M. daitoensis, Morinoia humicola, M. japonica, M. paludosus, Pickorchestia pickeringi, Platorchestia* (to be revised separately), *Tethorchestia* with *T. antillensis* and *T.*

*karukerae, Vallorchestia* with *V. dispar,* and *Yamatorchestia* with *Y. nudiramus*. A key to adult males of all genera is included.)

Madyarova, A., Y. Shirokova, A. Gurkov, P. Drozdova, B. Baduev, Y. Lubyaga, Z. Shatilina, M. Vishnevskaya & M. Timofeyev 2022. Metabolic tolerance to atmospheric pressure of two freshwater endemic amphipods mostly inhabiting the deep-water zone of ancient Lake Baikal. —- *Insects 13(7)*: 578. https://doi.org/10.3390/insects13070578 (*Ommatogammarus flavus* and *O. albinus* tested and no differences to atmospheric pressure found even though they are from deep waters)

Major, K. M., D. P. Weston, G. A. Wellborn, M. J. Lydy & H. C. Poynton 2022. Predicting resistance: Quantifying the relationship between urban development, agricultural pesticide use, and pesticide resistance in a nontarget amphipod. ---- *Environmental Science & Technology 50,* 14649-14659. https://doi.org/10.1021/acs.est.2c04245 *(*Again, *Hyalella azteca)*

Mäkelin, S. & A. Villnäs 2022. Food sources drive temporal variation in elemental stoichiometry of benthic consumers. ---- *Limnology and Oceanography 67 (4),* 784-799. https://doi.org/10.1002/lno.12034 (i.a. *Monoporeia affinis*)

Malev, O., S. Babic, A. S. Cota, D. Stipanicev, S. Repec, M. Drnic, M. Lovric, K. Bojanic, S. Radic Brkanac, R. Coz-Rakovac & G. Klobucar 2022. Combining short-term bioassays using fish and crustacean model organisms with ToxCast *in vitro* data and broad-spectrum chemical analysis for environmental risk assessment of the river water (Sava, Croatia). ---- *Environmental Pollution 292*: 118440. https://doi.org/10.1016/j.envpol.2021.118440 *(Gammarus fossarum*)

Mamos, T., M. Grabowski, T. Rewicz, J. Bojko, D. Strapagiel & A. Burzynski 2021. Mitochondrial genomes, phylogenetic associations, and SNP recovery for the key invasive Ponto-Caspian amphipods in Europe. ---- *International Journal of Molecular Sciences 22* (19):10300. https://doi.org/10.3390/ijms221910300 (*Dikerogammarus villosus, D. haemobaphes, D. bispinosus* and *Pontogammarus robustoides*.)

Mamos, T., K. Jazdzewski, Z. Ciamporova-Zatocicova, F. Ciampor Jr & M. Grabowski 2021. Fuzzy species borders of glacial survivalists in the Carpathian biodiversity hotspot revealed using a multimarker approach. ---- *Scientific Reports 11*: 21629. https://doi.org/10.1038/s41598-021-00320-8 (Deals with the *Gammarus balcanicus* complex. *Gammarus stasiuki* Jazdzewski, Mamos & Grabowski n. sp. from the Bieszczady Mts, Poland is described, as is *G. tatrensis* (S. Karaman, 1931), here revived as a valid species).

Mancuso, F. P., R. d'Agostaro, M. Milazzo, F. Badalamenti, L. Musco, B. Mikac, S. Lo Brutto & R. Chemello 2021. The invasive seaweed *Asparagopsis taxiformis* erodes the habitat structure and biodiversity of native algal forests in the Mediterranean Sea. ---- *Marine Environmental Research 173*: 105515. https://doi.org/10.1016/j.marenvres.2021.105515

Marangoni, L. F. B., T. Davies, T. Smyth, A. Rodriguez, M. Hamann, C. Duarte, K. Pendoley, J. Berge, E. Maggi & O. Levy 2022. Impacts of artificial light at night in marine ecosystems. ---- *Global Change Biology 28,* 5346-5367. https://doi.org/10.1111/gcb.16264

Marchetti, O. C., I. D. Rodrigues, F. T. Oricchio & G. M. Dias 2022. Effect of habitat topography in the structure and diversity of benthic communities across five marinas from the southwestern Atlantic Ocean. —- *Marine Ecology*: e12721 https://doi.org/10.1111/maec.12721

Maresh, J. L., A. L. Blanchard, N. L. Demchenko, I. Shcherbakov, L. Aerts & L. K. Schwartz 2022. Benthic studies adjacent to Sakhalin Island, Russia, 2015 II: energy content of the zoobenthos in western gray whale feeding grounds. ---- *Environmental Monitoring and Assessment 194 (Suppl. 1*): 742. https://doi.org/10.1007/s10661-022-10020-z

Marin, I. N. & D. M. Palatov 2022. Lifestyle switching and refugee availability are the main factors in the evolution and distribution of the genus *Synurella* Wrześniowski, 1877 (Amphipoda, Crangonyctidae). —-*Arthropoda Selecta 31(4)*: 393-448.

Marin, I. N. & D. M. Palatov 2022. Two new species of the genus *Victoriopisa* Karaman & Barnard, 1979 (Crustacea: Amphipoda: Eriopisidae) from mangrove communities of Vietnam, with a review of previous records. ---- *Zootaxa 5094*: 129-152. https://doi.org/10.11646/zootaxa.5048.2.1 (Deals with *V. nhatrangensis* n. sp. (Nha Trang Bay, Khanh Hoa Prov.) and *V. cangio* n. sp. (Can Gio Mangrove Biosphere Reserve, Ho Chi Minh district).)

Marin, I. N. & D. M. Palatov 2022. *Uralocrangonyx* gen.n. (Amphipoda: Crangonyctidae) from the southern Ural, Russia. ---- *Arthropoda Selecta 31*: 183-195. (The genus *Uralocrangonyx* n. gen. is erected for *Crangonyx chlebnikovi*. There is an extensive discussion of the *Crangonyx* s.l. clade, referring i.a. to *C. islandicus*. The new genus is in the *Bactrurus* clade)

Marin, I. N., S. Y. Sinelnikov & T. I. Antokhina 2022. The first Arctic conspicuously coloured *Pleusymtes* (Crustacea: Amphipoda: Pleustidae) associated with sea anemones in the Barents Sea. —- *European Journal of Taxonomy 819,* 166-187. https://doi.org/10.5852/ejt.2022.819.1789 (*Pleusymtes actiniae* sp. nov. living inside *Urticina eques* found in Dolgaya Bay of the Barents Sea)

Martinez- Haro, M., P. Acevedo, A. J. Pais-Costa, J. M. Neto, L. R. Vieira, N. Ospina-Alvarez, M. A. Taggart, L. Guilhermino, R. Ribeiro & J. C. Marques 2022. Ecotoxicological tools in support of the aims of the European Water Framework Directive: A step towards a more holistic ecosystem-based approach. ---- *Ecological Indicators 145*: 109645. https://doi.org/10.1016/j.ecolind.2022.109645 (I.a. *Echinogammarus marinus*.)

Martinez-Laiz, G., J. M. Guerra-Garcia, M. Ros, D. Fenwick, J. D. Bishop, T. Horton, M. A. Faasse & M. P. Cabezas 2021. Hitchhiking northwards: on the presence of the invasive skeleton shrimp *Caprella scaura* in the UK. ---- *Marine Biodiversity 51*: 78. https://doi.org/10.1007/s12526-021-01222-8

Martinez-Laiz, G., C. MacLeod, A. V. Hesketh, C. A. Konecry, M. Ros, J. M. Guerra-Garcia & C. D. G. Harley 2022. The journey of hull-fouling mobile invaders: basibionts and boldness mediate dislodgement risk during transit. ---- *Biofouling* 38: 837-851. https://10.1080/08927014.2022.2138754 (Studies on *Caprella mutica* and *C. laeviuscula*)

Martins, I., A. Guerra, N. Leite, E. Constantino, M. I. Ilarri, A. T. Souza, M. M. Santos, A. T. Ford & J. Campos 2021. Life-history data of a key amphipod species from three NE Atlantic estuaries under different levels of anthropogenic pressure. ---- *Data in Brief 40*: 107729. https://doi.org/10.1016/j.dib.2021.107729 (*Echinogammarus marinus*)

Martins, I., A. Guerra, N. Leite, M. I. Ilarri, A. T. Souza, M. M. Santos, A. T. Ford & J. Campos 2021. Comparing production and life-history traits of a key amphipod species within and between estuaries under different levels of anthropogenic pressure. ---- *Marine Environmental Research 173*: 105538. https://doi.org/10.1016/j.marenvres.2021.105538 (*Echinogammarus marinus*)

Mateos-Cárdenas, A., A. v. d. Geest Moroney, F. N. A. M. v. Pelt, J. O'Halloran & M. A. K. Jansen. 2022. Trophic transfer of microplastics in a model freshwater microcosm; lack of consumer avoidance response. —-*Food Webs 31*: e00228. https://doi.org/10.1016/j.fooweb.2022.e00228 (*Gammarus duebeni* does not stop eating duckweed even when the plant contains microplastics; micro- and nano-plastics are found in the digestive tract afterwards)

Mathers, K. L., C. T. Robinson & C. Weber 2022. Patchiness in flow refugia use by macroinvertebrates following an artificial flood pulse. ---- *River Research and Applications 38,* 696-707. https://doi.org/10.1002/rra.3941 (*Gammarus fossarum*)

Mavraki, N., J. W. P. Coolen, D.-A. Kapasakali, S. Degraer, J. Vanaverbeke & J. Beermann 2022. Small suspension-feeding amphipods play a pivotal role in carbon dynamics around offshore man-made structures. ---- *Marine Environmental Research 178*: 105664. https://doi.org/10.1016/j.marenvres.2022.105664 (Most interesting studies on *Jassa herdman*i)

Maximov, A. A. 2021. Population dynamics of the glacial relict amphipods in a subarctic lake: role of density-dependent and density-independent factors. ---- *Ecology and Evolution 11,* 15905-15915. https://doi.org/10.1002/ece3.8260 (*Monoporeia affinis*).

McCalla, L. B., B. M. Phillips, B. S. Anderson, J. P. Voorhees, K. Siegler, K. R. Faulkenberry, M. C. Goodman, X. Deng & R. S. Tjeerdema 2022. Effectiveness of a constructed wetland with carbon filtration in reducing pesticides associated with agricultural runoff. ---- *Archives of Environmental Contamination and Toxicology 82,* 1-13. https://doi.org/10.1007/s00244-021-00909-0 (*Hyalella azteca*)

McMahon, M., H. Reynolds & T. Pinou 2022. Loggerhead sea turtle epibiont communities changed following the Gulf Deepwater Oil Spill. ---- Marine Turtle Newsletter 165: 1-6

Mebane, C. A. 2022. The protectiveness of aquatic life criteria for threatened or endangered aquatic species: Cadmium in California. ---- USGS IP-137876.

Mekhanikova, I. V., 2021. Calceoli: Antennal sensory organs of amphipods (Crustacea, Amphipoda, Gammaridea) from Lake Baikal. ---- *Biology Bulletin 48*: 1250-1262. (A rich source of data, translated from the original Russian paper).

Mekhanikova, I. V. 2021. The rare abyssal Baikal amphipod *Polyacanthisca calceolata* (Crustacea. Amphipoda) at the St. Petersburg methane seep, Central Baikal. —-*Biology Bulletin of*

*the Russian Academy of Science 48*: S43-S57. https://doi.org/10.1134/S1062359021140119 (A thorough description of the species, found for the first time in large amounts during submersible expeditions to the deepest parts of Lake Baikal)

Mekhanikova, I. V., A. A. Zhdanov & V. A. Obolkin 2022. *Acanthogammarus victorii* (Crustacea, Amphipoda) cast ashore in the southern Lake Baikal in December 2013: Possible causes. —- *Zoological Journal 101(5)*: 518-524. (In Russian, with English abstract.) (Reason for the amphipods being cast ashore: horizontal migrations towards the coast associated with the reproductive period and possibly food, coinciding with favourable hydro-meteorological conditions…)

Meyer, M. F., T. Ozersky, K. H. Woo, K. Shchapov, A. W. E. Galloway, J. B. Schram, E. J. Rosi, D. D. Snow, M. A. Timofeyev, D. Y. Karnaukhov, M. R. Brousil & S. E. Hampton 2022. Effects of spatially heterogeneous lakeside development on nearshore biotic communities in a large, deep, oligotrophic lake. —-*Limnology and Oceanography 67 (12),* 2649-2664. https://doi.org/10.1002/lno.12228

Mijosek, T., V. Filipovic Marijic, Z. Dragum, D. Ivankovic, N. Krasnici & M. Erk 2022. Efficiency of metal bioaccumulation in acanthocephalans, gammarids and fish in relation to metal exposure conditions in a karst freshwater ecosystem. ---- *Journal of Trace Elements in Medicine and Biology 73*: 127037. https://doi.org/10.1016/j.jtemb.2022.127037 (*Gammarus balcanicus*)

Milisa, M., R. Stubbington, T. Datry, N. Cid, N. Bonada, M. Sumanovic & D. Milosevic 2022. Taxon-specific sensitivities to flow intermittence reveal macroinvertebrates as potential bioindicators of intermittent rivers and streams. ---- *Science of the Total Environment 804*: 150022. https://doi.org/10.1016/j.scitotenv.2021.150022

Mohammadi, S., M. A. Azadi, R. Hemmati & A. Homaei 2021. Extraction, purification and characterization of a thermally stable aspartic protease from freshwater shrimp *Gammarus* sp. with a high catalytic efficiency. ---- *Biocatalysis and Agricultural Biotechnology 38:* 102224. https://doi.org/10.1016/j.beab.2021.102224 (A freshwater gammarid from Iran)

Momtazi, F. & A. Maghsoudlou 2022. Response of marine amphipods to sediment variables (Chahabar Bay—Iran): A step towards localizing amphipod-based bioindices. ---- *Marine Environmental Research 178:* 105648. https://doi.org/10.1016/j.marenvres.2022.105648

Montecinos, C., C. Alvarez, R. Riera & A. Brante 2021 Inbreeding vs outbreeding depression in a marine species with low dispersal potential. ---- *Marine Ecology 42*: e12635. https://doi.org/10.1111/maec.12635 (*Orchestoidea tuberculata*)

Montesanto, F., M. Albano, A. Deniz, F. Betti, G. Capillo, M. E. Çinar, M.Corsini-Foka, F. Crocetta, E. Dağli, C. D'Iglio, M. Digenis, B. Dragičević, S. Famulari, D. Ergüden, A. Giova, V. Giussani, R. Hoffman, I. Isajlović, L. Lipej, R. López-Esclapez, F. Mastrototaro, A. Moreni, V. Orenes-Salazar, P. Ovalis, W. Plaiti, J. A. Pujol, L. Rabaoui, I. Rallis, M. Rogelja, S. Savoca, G. Skouradakis, F. Tiralongo, M. Toma, D. Trkov, N. Ubero-Pascal, L. YacoubiI, F. Yalgin, S. Yapici, & L. L. Zamuda 2022. New Records of Rare Species in the Mediterranean Sea (December 2022).

—- *Mediterranean Marine Science 23 (4)*:968-94. https://doi.org/10.12681/mms.32369 (*Caprella andreae* new to Levantine Sea)

Montgomery, W. I., R. E. Elwood & J. T. A. Dick 2022. Invader abundance and contraction of niche breadth during replacement of a native gammarid amphipod. —- *Ecology and Evolution 12*: e8500 https://doi.org/10.1002/ece3.8500 (*Gammarus pulex* replacing *G. duebeni celticus*)

Moore, P. G. 2021. On the date of *Hyale perieri.* ---- *Archives of Natural History 48*, 179-187. (The correct date is 1846).

Moore, P. G. 2022. Edward Emrys Watkin (1900-1078): marine zoologist and educator. ---- *Archives of Natural History 49*: 364-371. (Sadly not seen)

Morhun, H., D. Copilas-Ciocianu, T. Rewicz, M. O. Son, A. Khomenko, M. Huseynov, S. Utevsky & M. Grabowski 2022. Molecular markers and SEM imaging reveal pseudocryptic diversity within the Ponto-Caspian low-profile amphipod invader *Dikerogammarus bispinosus*. ---- *The European Zoological Journal 89*: 87-101. https://doi.org/10.1080/24750263.2021.2018056 (Three evolutionary independent lineages in the examined material.)

Morhun, H., M. O. Son, T. Rewicz, E. Kazanaviciute & D. Copilas-Ciocianu 2022. The first records of *Niphargus hrabei* and *N. potamophilus* in Ukraine and Bulgaria significantly enlarge the ranges of these species. ---- *The European Zoological Journal 89*: 1191-1200. https://doi.org/10.1080/24750263.2022.2126534

Mosbahi, N., J.-P. Pezy, J.-C. Dauvin & L. Neifar 2022. COVID-19 pandemic lockdown: An excellent opportunity to study the effects of trawling disturbance on macrobenthic fauna in the shallow waters of the Gulf of Gabès (Tunisia, Central Mediterranean Sea). ---- *International Journal of Environmental Research and Public Health 19*: 1282. https://doi.org/10.3390/ijerph19031282 ("The absence of trawling led to a significant increase in biomass, number of species, and abundance of macrofauna.").

Mouron, S., D. Eme, A. Bellec, M. Bertrand, S. Mammola, F. Liébault, C. J. Douady & F. Malard 2022. Unique and shared effects of local and catchment predictors over distribution of hyporheic organisms: does the valley rule the stream? ---- *Ecography* 2022: e06099. https://doi.org/10.1111/ecog.06099 (i.a. Bogidiellidae in New Caledonia.)

Mülayim, A., A. S. Ateş, Y. Şen, U. Özekinci & S. Acar 2022. Occurence of the Scavenger Crustaceans *Natatolana neglecta* (Hansen, 1890) (Isopoda, Cirolanidae) and *Scopelocheirus hopei* (Costa in Hope, 1851) (Amphipoda, Scopelocheiridae) in Bento-pelagic Fish Species in the Turkish Straits System. —- *Acta Zoologica Bulgarica 74(4)*. 529-534. http://www.acta-zoologica-bulgarica.eu/2022/002670 (Both crustaceans are new to the Turkish Straits system.)

Myers, A. A. & C. W. Ashelby 2022. A revision of the genus *Pontocrates* Boeck, 1871 (Amphipoda, Oedicerotidae) with description of *P. moorei* sp. nov. and the re-establishment of *P. norvegicus* (Boeck, 1860). —-*Zootaxa 5115(4),* 582-598. https://doi.org/10.11646/zootaxa.5115.4.8 (A very thorough revision of a genus where species have been confounded for many years.)

Nagyova, S., P. Tölgyessy, M. Laurencik & M. Kirchner 2021. Miniaturized QuEChERS based sample preparation method combined with gas chromatography-tandem mass spectography for the determination of selected polycyclic aromatic hydrocarbons in crustacean gammarids. ---- *Microchemical Journal 173*: 107011. https://doi.org/10.1016/j.microc.2021.107011 (*Gammarus pulex*)

Naro-Maciel, E., M.R. Ingala, I. E. Werner, B. N. Reid & A. M. Fitzgerald 2022. COI amplicon sequence data of environmental DNA collected from the Bronx River Estuary, New York City. —- *Metabarcoding and Metagenomics 6,* 161-170. https://doi.org/10.3897/mbmg.6.80139 (*Grandidierella japonica* one of the species concerned)

Nedzarek, A. & K. Stepanowska 2022. The excretion of nitrogen and phosphorus and changes in nitrogen content in the Antarctic amphipod *Waldeckia obesa* and isopod *Glyptonotus antarcticus* during long-term starvation. ---- *The European Zoological Journal 89*: 1026-1038. https://doi.org/10.1080/24750263.2022.2107721

Nelson, W. G., R. W. Virnstein & M. J. Barkaszi 2022. Benthic macrofaunal habitat use of the alga *Caulerpa prolifera* compared to the seagrass *Halodule wrightii. ---- Bulletin of Marine Science 98*: 105-130. https://doi.org/10.5343/bms.2021.0023

Neuparth, T., N. Alves, A. M. Machado, M. Pinheiro, R. Montes, R. Rodil, S. Barros, R. Ruivo, L. F. C. Castro, J. B. Quintana & M. M. Santos 2022. Neuroendocrine pathways at risk? Simvastatin induces inter and transgenerational disruption in the keystone amphipod *Gammarus locusta.* ---- *Aquatic Toxicology 244*: 106095. https://doi.org/10.1016/j.aquatox.2022.106095

Nijman, V. & R. Vonk 2022. Room for females only? Exploring strongly female-biased sex ratios in *Ingolfiella* (Crustacea: Peracarida: Ingolfiellida) in relation to ecological condition. ---- *Journal of Crustacean Biology 42*: ruac049. https://doi.org/10.1093/jcbiol/ruac049

Niklass, J. 2022. Historic changes in abundance, biomass and taxonomic composition of seaweed-associated fauna in Kongsfjorden, Svalbard. — *MSc thesis, Arctic University of Tromsø, Norway.* https://munin.uit.no/bitstream/handle/10037/27918/thesis.pdf?sequence=2&isAllowed=y (Amphipods not identified)

Nishimori, T., K. Hiki, F. C. Fischer, S. Endo, H. Yamamoto & H. Watanabe 2022. Comparing 10- and 28-day sediment toxicity and bioaccumulation of fluoranthene in *Hyalella azteca* using passive sampling techniques. ---- *Environmental Toxicology and Chemistry 41(11),* 2679-2687. https://doi.org/10.1002/etc.5460

Nogueira, M. M., J. Alves, E. Neves & R. Johnsson 2021. The competition of native sponges and the sun coral *Tubastraea* spp. does not influence the morphological pattern of a new *Photis* (Photidae: Senticaudata). ---- *Journal of Natural History 55*: 2065-2081. https://doi.org/10.1080/00222933.2021.1973133 (*Photis oxalai* n. sp. from Salvador City, Todos-os-Santos Bay, Bahia State, Brazil.)

Nosad, S., T. Ganesh & L. Raj Kiran 2021. Efficiency of sampling gears (quadrate and core) and taxonomic resolution on the soft bottom intertidal macrobenthic community of Port Blair coast. ---- *Research Journal of Chemistry and Environment 25*: 93-103. https://doi.org/10.25303/2511rjce93103

Okada, S., C. Chen, H. Kayama Watanabe, N. Isobe & K. Takai 2022. Unusual bromine enrichment in the gastric mill and setae of the hadal amphipod *Hirondellea gigas*. ---- *Plos One 17*: e0272032. https://doi.org/10.1371/journal.pone.0272032

Olguner, M. T. & M. C. Deval 2022. The occurrence of *Phronima sedentaria* Forskål, 1775 (Crustacea: Amphipoda) in the Gulf of Antalya (Eastern Mediterranean, Türkiye). ---- *COMU Journal of Marine Sciences and Fisheries 5*: 94-97. https://doi.org/10.46384/jmsf.1086340.

Ortiz, M. & I. Winfield 2022. A new deep-sea species of *Vemana* J. L. Barnard, 1964 (Amphipoda, Amphilochoidea, Vemanidae) from off southern Gulf of Mexico. —- *Zootaxa 5205,* 585-593. https://doi.org/10.11646/zootaxa.5205.6.6 (*Vemana touzeti* n. sp. is described from 1500m depth.)

Ortiz, M., I. Winfield & P.-L. Ardisson 2022. A new deep-sea genus and species of Eriopisidae (Crustacea: Amphipoda: Senticaudata) from the Gulf of Mexico. ---- *Journal of Natural History 56* (21-24), 1109-1121. https://doi.org/10.1080/00222933.2022.2101958 (Deals with *Bathypisella spinicauda* n. gen., n. sp. from the SW Gulf of Mexico, at 884m depth. Table 1 compares all genera in the *Eriopisella* group, in which the new genus clearly belongs.)

Otomo, Y., J. Shinji, H. Kohtsuka & T. Miura 2022. Ontogenetic expressions of sexually dimorphic traits in the skeleton shrimp *Caprella scaura* (Crustacea: Amphipoda). ---- *Zoological Science 39*: 431-445. https://doi.org/10.2108/zs220038

Pacioglu, O., L. Duţu, F. Duţu & A. B. Pavel 2022. Habitat preferences and trophic interactions of the benthic invertebrate communities inhabiting depositional and erosional banks of a meander from Danube Delta (Romania). ---- *Global Ecology and Conservation 3*8: e02213. https://doi.org/10.1016/j.gecco.2022.e02213

Pacioglu, O., F. Duţu, A. B. Pavel & L. T. Duţu 2021. The influence of hydrology and sediment grain-size on the spatial distribution of macroinvertebrate communities in two submerged dunes from the Danube Delta. ---- *Limnetica 41* (1): 85-100. https://doi.org/10.23818/limn.41.07

Palatov, D. M. & I. N. Marin 2021. When males and females belong to different genera: an interesting case of *Synurella/Pontonyx* (Crustacea: Amphipoda: Crangonyctidae) co-occurrence. ---- *Arthropoda Selecta 30*: 443-472. https://doi.org/10.15298/arthsel.30.4.03 (Deals with *Pontonyx adjaricus* n. sp. (Republic of Adjara, Georgia), *P. colchicus* Marin & Palatov n. sp. (Khobi municipality, Georgia), *Synurella ispani* n. sp. (loc. as *P. adjaricus*) and *S. spiridonov*i Marin & Palatov n. sp. (loc. as *P. colchicus*). Of the *Pontonyx*, only males were found, of the *Synurella,* only females!!)

Pantukhin, D., D. Piepenburg, M. L. S. Hansen & C. Kraan 2021. Data-driven bioregionalization: A seascape-scale study of microbenthic communities in the Eurasian Arctic. ---- *Journal of Biogeography 48,* 2877-2890. https://doi.org/10.1111/jbi.14247

Park, E. 2022. Understanding the diversity and phylogenetic placements of New Zealand amphipods within a global context. ---- *New Zealand Journal of Marine and Freshwater Research*, online only. https://doi.org/10.1080/00288330.2022.2117203

Park, E. & R. Poulin 2022. Extremely divergent COI sequences within an amphipod species complex: A possible role for endosymbionts? ---- *Ecology and Evolution 12*: e9448. https://doi.org/10.1002/ece3.9448 (The *Paracalliope fluviatilis* complex)

Parodi, B. A. 2021. The effect of parental thermal environment on maternal investment and offspring performance. ---- *The Plymouth Student Scientist 14*: 128-139. (*Gammarus chevreuxi*)

Parvisi, E., L. Dutoit, C. I. Fraser, D. Craw & J. M. Waters 2022. Concordant phylogeographic responses to large-scale coastal disturbance in intertidal macroalgae and their epibiota. ---- *Molecular Ecology 31*: 646-657. https://doi.org/10.1111/mec.16245

Paz-Rios, C. E. & D. Pech 2022. Two new genera (*Paraeperopeus* and *Dentimelita*) and four new deep-sea amphipod crustacean species of little-known genera (*Neohela, Pardaliscella*, *Pardaliscoides* and *Tosilus*) from the Perdido Fold Belt, Gulf of Mexico. ---- *Journal of the Marine Biological Association UK 101*: 1145-1170. https://doi.org/10.1017/S0025315422000169 (Deals with *Paraeperopeus longirostris* n. gen., n. sp., *Pardaliscella perdida* n. sp., *Pardaliscoides ecosur* n. sp., *Tosilus cigomensis* n. sp., *Dentimelita lecroyae* n. gen., n. sp., and *Neohela winfieldi* n. sp., all from deep waters (>1000m) in the Perdido Fold Belt, offshore Tamaulipas, Mexico.) (You can find a nice pictorial presentation of the paper here as well: https://app.emaze.com/@ALOLWFQCI/exposicin-two-genera?fullscreen&fbclid=IwAR13EmrlqNozhT991hhhchkFgbsBolRCS854rDYVfu4xfySfN8As_yTw0eU#/1 )

Penoni, L. R., M. M. A. Lares & A. A. P. Bueno 2021. Description of two new species of the freshwater amphipod *Hyalella* Smith, 1874 (Amphipoda: Hyalellidae) from southeastern Brazil, with remarks on their population biology and reproduction. ---- *Journal of Crustacean Biology 41* (3): 1-13. https://doi.org/10.1093/jcbiol/ruab050 (Deals with *H. bala* Penoni & Bueno n. sp. (São Luiz do Paraitinga, São Paulo state) and *H. virginiae* Lares, Penoni & Bueno n. sp. (same locality). NB Corrigendum concerning the figures in *J. Crust. Biol. 41*. https://doi.org/10.1093/jcbiol/ruab061 )

Pérez-Schultheiss, J., C. Merino-Yunnissi & D. Gutiérrez 2022. (Keys to the identification of the families of the order Amphipoda (*sensu lato*) present in Chile, with an updated list of the species.) —- *Publicación Ocasional Museo Nacional de Historia Natural, Chile 73,* 5-69. ISSN: 0716-0224 (in Spanish)

Perova, S. N. 2022. First find of *Pontogammarus robustoides* in the Upper Volga river basin (Russia). ---- *Inland Water Biology 15*: 697-700. https://doi.org/10.1134/S1995082922050170

Perrot-Minot, M.-J., A. Balourdet & O. Musset 2021. Optimization of anesthetic procedure in Crustaceans: Evidence for sedative and analgesic-like effect of MS-222 using a semi-automated

device for exposure to noxious stimulus. ---- *Aquatic Toxicology 240*: 105981. https://doi.org/10.1016/j.aquatox.2021.195981

Pezy, J.-P., A. Baffreau, A. Roux, A.-M. Rusig, I. Mussio & J.-C. Dauvin 2021. Non-indigenous species in marine and brackish water along the Normandy coast. ---- *BioInvasion Records 10 (4)*: 755-774. https://doi.org/10.3391/bir.2021.10.4.01

Picinic, B., A. Durant & A. Donini 2022. Effect of salt and brine-beet juice de-icer on osmoregulatory physiology of the freshwater amphipod *Hyalella azteca* (Saussure, 1858) (Amphipoda, Hyalellidae). —-*Journal of Crustacean Biology 42*: ruac025 https://doi.org/10.1093/jcbiol/ruac025 (Amphipods can survive higher levels of both $K^+$ and $Na^+$ if it is mixed with organic de-icer)

Piña, A. E. & V. L. Lougheed 2022. Macroinvertebrate Community Composition in Wetlands of the Desert Southwest is Driven by wastewater-associated Nutrient Loading Despite Differences in Salinity. —-*Wetlands 42i*: 128. https://doi.org/10.1007/s13157-022-01647-2 (Amphipods in Table 5)

Pineda, L., M. Zuluaga, S. Ruiz, D. Fernadez McCann, F. Velez, N. Aguirre, Y. Puerta & J. Cañon 2022. Automated software for counting and measuring *Hyalella* genus using artificial intelligence. ---- *Research Square*, PREPRINT. https://doi.org/10.21203/rs.3.rs-1899518/v1

Pinedo, S., E. Jordana & E. Ballisteros 2022. Species characterization of soft bottom habitats by depth and sediment particle size on the Catalan coast (NW Mediterranean): unexpected species composition of the assemblages. ---- *Mediterranean Marine Science 23*: 789-804. https://doi.org/10.12681/mms.28127

Pinto, T. J. da S., G. S. Rocha, R. A. Moreira, L. C. M. da Silva, M. P. C. Yoshii, B. V. Goulart, C. C. Montagner, M.A. Damm & E. L. G. Espindola 2022. Chronic environmentally relevant levels of pesticides disrupt energy reserves, feeding rates, and life-cycle responses in the amphipod *Hyalella meinerti.* ---- *Aquatic Toxicology 245*: 106117. https://doi.org/10.1016/j.aqautox.2022.106117

Pizarro-Araya, J., F. M. Alfaro, F. A. Gomez & R. Villablanca 2022 Arthropod fauna of the urban coastal wetland of Aguada La Chimba (Antofagasta region, Chile): a wetland in an arid matrix. ---- *Anthropocene Coasts 5*: 11. https://doi.org/10.1007/s44218-022-00009-z

Png-Gonzalez, L., P. Ramalhosa, I. Gestoso, S. Alvarez & N. Nogueira 2021. Non-indigenous species on artificial coastal environments: experimental comparison between aquaculture farms and recreational marinas. ---- *Journal of Marine Science and Engineering 9*:1121. https://doi.org/10.3390/jmse9101121 (A study from Madeira)

Premate, E., S. Borko, S. Kralj-Fiser, M. Jennions, Z. Fiser, G. Balazs, A. Biro, G. Bracko, D. Copilas-Ciocianu, N. Hrga, G. Herczeg, B. Rezhepi, M. Zagmajster, V. Zaksek, L. Fromhage & C. Fiser 2021. No room for males in caves: Female-biased sex ratio in subterranean amphipods of the genus *Niphargus.* ----*Journal of Evolutionary Biology 34,* 1653-1661. https://doi.org/10.1111/jeb.13917

Premate, E., M. Zagmajster & C. Fiser 2021. Inferring predator-prey interaction in the subterranean environment: a case study from Dinaric caves. ---- *Scientific Reports 11*: 21682. https://doi.org/10.1018/s41598-021-01249-8 (The predator is *Proteus*, the prey *Niphargus* spp)

Provost, L., M. Bryant, E. Eisemann & D. Bryant 2022. Coastal Resilience: Benefits of wrack and dune systems and current management practices. —- *US Army Engineer Research and Development Center Technical Note RSM-22-6.*

Queiroz, L., B. Rani-Borges, C. Prado, B. Moraes, R. Ando, T. Paiva & M. Pompeo 2022. Realistic environmental exposure to secondary PET microplastics induces biochemical responses in freshwater amphipod *Hyalella azteca*.---- *Chemistry and Ecology,* in press. https://doi.org/10.1080/02757540.022.2162046

Rabet, N. 2021. *Crustaceans*. https://doi.org/10.1201/9781003217503-15 Chapter 15 in 'Handbook of Marine Model Organisms in Experimental Biology'. A. Boutet & B Schierwater (eds.), CRC Press. https://doi.org/10.1201/9781003217503

Radziejewska, T., M. Blazewicz, M. Wlodarska-Kowalczuk, P. Jozwiak, K. Pabis & J. M. Weslawski 2022. Benthic biology in the Polish exploration contract area of the Mid-Atlantic Ridge: The knowns and the unknowns. A review. ---- *Frontiers in Marine Science 9*: 898828. https://doi.org/10.3389/fmars.2022.898828

Rahim, A. A., K. Sivajothy, B. B. Shafie, N. Ja'afar, K. Wongkamhaeng, S. Bussarawit, A. E. Alip, L. Yen-Ling, E. B. Metillo & M. E. Q. Won 2022. The amphipods (Crustacea: Peracarida) of Southeast Asia and the neighbouring regions: an updated checklist with new records of endemic species. ---- *Phuket Marine Biology Center Research Bulletin 78*: 42-84. https://doi.org/10.14456/pmbcrb.2022.2 (A most useful compilation of often not all that easily found data from a very amphipod-rich region)

Rallis, J., G. Kapai & A. Pavlopoulos 2021. Parhyale hawaiensis*, Crustacea.* https://doi.org/0.1201/9781003217503-16 Chapter 16 in 'Handbook of Marine Model Organisms in Experimental Biology' A. Boutet, & B Schierwater (eds.), CRC press. https://doi.org/10.1201/9781003217503

Rallis, J. & A. Pavlopoulos 2022. Cellular basis of limb morphogenesis. ---- *Current Opinion in Insect Science 50*: 100887. https://doi.org/10.1016/j.cois.2022.100887 (*Parhyale hawaiensis*)

Ramesh, C. & M. Bessho-Uehara 2021. Acquisition of bioluminescent trait by non-luminous organisms from luminous organisms through various origins. ---- *Photochemical & Photobiological Sciences 20,* 1547-1562. https://doi.org/10.1007/s43630-021-00124-9

Ramirez-Llodra, E., H. C. Trannum, G. S. Andersen, N. J. Baeten, S. J. Brooks, C. Escudero-Oñate, H. Gundersen, R. A. Kleiv, O. Ibragimova, A. Lepland, R. Nepstad, R. Sandøy, M. Thorne Schaanning, T. Shimmield, E. Yakushev, L. Ferrando-Climant & P. H. Høgaas 2021. New insights into submarine tailing disposal for a reduced environmental footprint: Lessons learnt from

Norwegian fjords. ---- *Marine Pollution Bulletin 174*: 113150. https://doi.org/10.1016/j.marpolbul.2021.113150

Rangel, V., A. L. L. da Silva, A. E. Siegloch, M. Limberger & D. da S. Castiglioni 2022. First island species of *Hyalella* (Amphipoda, Hyalellidae) from Florianopolis, state of Santa Catarina, Southern Brazil. ---- *Zootaxa 5116*: 40-60. https://doi.org/10.11646/zootaxa.5116.1.2 (*H. insulae* Rangel, Limberger & Castiglioni n. sp. from Florianopolis, S. Catarina Island. Table 1 compares the new species with 20 others from the southern states in Brazil.)

Rani-Borges, B., R. Meitern, P. Teesalu, M. Raudna-Kristoffersen, R. Kreitsberg, M. Heinlaan, A. Tuvikene & A. Ivask 2022. Effects of environmentally relevant concentrations of microplastics on amphipods. ---- *Chemosphere 309*: 136599. https://doi.org/10.1016/j.chemosphere.2022.136599 (*Gmelinoides fasciatus* and *Gammarus lacustris*)

Rauque, C., V. Flores & L. Semenas 2022. *Pseudocorynosoma enrietti* (Molfi & Freitas Fernandes, 1953) (Acanthocephala: Polymorphidae) from Patagonia (Argentine): life cycle, localities, and new host records. ---- *Journal of Helminthology 96*:(e38) 1-10. https://doi.org/10.1017/S0022149X21000511 (Found in *Hyalella patagonica*)

Raut, S., S. Prakash, V. Arjunan & A. Kumar 2022. A new species of the genus *Protohyale* Bousfield & Hendrycks, 2002 (Crustacea, Amphipoda, Hyalidae) from Covelong, Chennai, India. —-*Zootaxa 5205 (6),* 563-574. https://doi.org/10.11646/zootaxa.5205.6.4 (*Protohyale covelongensis* sp. nov. from intertidal areas in Covelong, Chennai coast, Tamil Nadu, India. Table 1 copares all *Protohyale* species)

Revanales, T., J. M. Guerra-Garcia & M. Ros 2022. Colonization dynamics of potential stowaways inhabiting marinas: Lessons from caprellid crustaceans. ---- *Water 14*: 2659. https://doi.org/10.3390/w14172659

Rhude, K. S. & R. W. Sterner 2022. *Diporeia* site preferences in Lake Superior: Food or physical factors? —- *Journal of Great Lakes Research*: in press. https://doi.org/10.1016/j.jglr.2022.11.008 (Sediment grain size seems to be a stronger driver than food-availability)

Rinne, H., J.-F. Blanc, T. Salo, M. C. Nordström, N. Salmela & S. Salovius-Lauren 2022. Variation in *Fucus vesiculosus* associated fauna along a eutrophication gradient. ---- *Estuarine, Coastal and Shelf Science 275*: 107976. https://doi.org/10.1016/j.ecss.2022.107976

Rohlfer, E. K., S. L. Scheer, M. Bergmann, A. K. Sweetman & H. J. T. Hoving 2022. Contrasting residence time and scavenging communities of experimental invertebrate food falls in the Arctic deep sea. —- *Deep Sea Research Part 1: Oceanographic Research Papers 189*: 103832 https://doi.org/10.1016/j.dsr.2022.103832 (The amphipod scavengers (*Eurythenes gryllus, Scopelocheirus* sp. and Stegocephalidae: see Table 2) dominated falls of squid but did not want jellyfish.)

Roje, S. 2021. *Cocktail of invaders in European inland waters—ecological characteristics, interactions and consequences*. ---- PhD Thesis, Univ. of South Bohemia in Ceske Budejovice (Not seen)

Romanova, E. V., Y. S. Bukin, K. V. Mikhailov, M. D. Logacheva, V. V. Aleoshin & D. Y. Sherbakov 2021. The mitochondrial genome of a freshwater pelagic amphipod *Macrohectopus branickii* is among the longest in Metazoa. ---- *Genes 12*: 2030. https://doi.org/10.3390/genes121122030

Ros, M., J. M. Guerra-Garcia, J.-H. Lignot & G. A. Rivera-Ingraham 2021. Environmental stress responses in sympatric congeneric crustaceans: Explaining and predicting the context-dependencies of invader impacts. ---- *Marine Pollution Bulletin 170*: 112621. https://doi.org/10.1016/l.marpolbul.2021.112621 (*Caprella scaura* vs *C. equilibra*.)

Rubio-Rios, J., J. Perez, E. Fenoy, M. J. Salinas-Bonillo & J. J. Casas 2022. Cross-species coprophagy in small stream detritivores counteracts low-quality litter: native versus invasive plant litter. ---- *Aquatic Sciences 85*: 8. https://doi.org/10.1007/s00027-022-00905-z (i.a. *Echinogammarus obtusidens*)

Rumbold, C. E., I. L. Chiesa & N. E. Farías 2022. New epibiontic association in the deep-sea: the amphipod *Caprella ungulina* and the Patagonian lobsterette *Thymops birsteini* in the South-western Atlantic. *Journal of the Marine Biological Association of the United Kingdom 101,* 1171-1179. https://doi.org/10-1017/S0025315422000170 (50% of the *Thymops* sampled (1087-2212m depth) had *Caprella ungulina* attached to them)

Rybakova, E., E. Krylova, V. Mordukovich, S. Galkin, I. Alalykina, I. Smirnov, N. Sanamyan, I. Nekhaev, G. Vinogradov, V. Shilov, A. Prudkovsky, E. Kolpakov, A. Gebruk & A. Adrianov 2022. Methane seep communities on the Koryak slope in the Bering Sea. ---- *Deep-Sea Research II (206)*: 105203. https://doi.org/10.1016/j.dsr2.2022.105203

Sabater, S., A. Freixa, A. Arias & J. Lopez-Duval 2022. Green and brown stream trophic food chains show specific responses to constant and hump-shaped inputs of copper. ---- *Science of the Total Environment 807*: 150740. https://doi.org/10.1016/j.scitotenv.2021.150740

Saccò M., A. J. Blyth, G. Douglas, W. F. Humphreys, G. C. Hose, J. Davis, M. T. Guzik, A. Martínez, S. M. Eberhard & S. A. Halse 2022. Stygofaunal diversity and ecological sustainability of coastal groundwater ecosystems in a changing climate: The Australian paradigm. —- *Freshwater Biology 67,* 2007-2023. https://doi,org/10.1111/fwb.13987

Saenz-Arias, P., C. Navarro-Barranco & J. M. Guerra-Garcia 2021. Influence of environmental factors and sessile biota on vagile epibionts: the case of amphipods in marinas across a regional scale. ---- *Mediterranean Marine Science 23*: 1-13. https://doi.org/10.12681/mms.26800

Sahu, N. & S. Haldar 2022. Evaluation of benthic quality status and ecosystem functioning of soft bottom macrobenthos in the intertidal region with reference to Gulf of Khambhat, India. —- *Journal of Sea Research 189*: 102273 https://doi.org/10.1016/j.seares.2022.102273

Saito, N., A. Kayama & Y. Nakamura 2022. First record of the maternal care behavior of a "rhizarian rider", *Phronimopsis spinifera* Claus, 1879 (Amphipoda; Hyperiidea), in association with *Aulosphaera* sp (Rhizaria, Cercozoa, Phaeodaria, Aulosphaeridae). ---- *Crustacean Research*

*51*: 111-113. https://doi.org/10.18353/crustacea.51.0_111 (The juveniles are scattered among the host colony individuals)

Sandlund, O. T., J. V. Arnekleiv, T. Hesthagen, J. I. Koksvik & T. F. Næsje 2022. (Introductions of *Mysis relicta* and *Pallasea quadrispinosa* in Norwegian reservoirs: beneficial or detrimental?). ---- *Vann 2022-1*: 22-37 (In Norwegian)

Santos A. dos, M. T. Botelho, M. Vannucci-Silva, M. C. Artal, F. I. Vacchi, G. R. Magalhães, V. Gomes, T. B. Henry & G. A. Umbuzeiro 2022. The amphipod *Parhyale hawaiensis* as a promising model in ecotoxicology. ---- *Chemosphere 307*: 135959. https://doi.org/10.1016/j.chemosphere.2022.135959

Santos, A. dos, M. Vannuci-Silva, J. A. de S. Vendemiatti, M. C. Artal, B. F. da Silva, M. V. B. Zanoni & G. de A. Umbuzeiro 2022. Measuring concentrations of a dye in the hemolymph of a marine amphipod: development of a protocol for exposure assessment. ---- *Marine Pollution Bulletin 175*: 113376. https://doi.org/10.1016/j.marpolbul.2022.113376 (*Parhyale hawaiensis*)

Saranchina, A., P. Drozdova, A. Mutin & M. Timofeyev 2021. Diet affects body color and energy metabolism in the Baikal endemic amphipod *Eulimnogammarus cyaneus* maintained in laboratory conditions. ---- *Biological Communications 66*: 245-255. https://doi.org/10.21638/spbu03.2021.306

Sari, A. & F. Sari 2021. A comparative examination of acute toxicities of three disazo dyes to freshwater macroinvertebrates *Gammarus roeseli* (Crustacea: Amphipoda) and *Chironomus riparius* (Insecta: Diptera). ---- *Chemistry and Ecology 37*: 683-703. https://doi.org/10.1080/02757540.2021.1974008

Sarkis,N., O. Geffard, Y. Souchon, A. Chandesris, M. Ferréol, L. Valette, A. Francois, J. Piffady, A. Chaumot & B. Villeneuve 2023. Identifying the impact of toxicity of stream macroinvertebrate communities in a multi-stressor context based on national ecological and ecotoxicological monitoring databases. ---- *Science of the Total Environment 859*: 160179. https://doi.org/10.1016/j.scitotenv.2022.160179

Schaafsma, F. L., C. L. David, D. Kohlbach, J. Ehrlich, C. Castellani, B. A. Lane, M. Vortkamp, A. Meijboom, A. Fortuna-Wünsch, A. Immerz, H. Cantzler, A. Klasmeier, N. Zakharova, K. Schmidt, A. P. van de Putte, J. A. van Franeker & H. Flores 2022. Allometric relationships of ecologically important Antarctic and Arctic zooplankton and fish species. ---- *Polar Biology 45,* 203-224. https://doi.org/10.1007/s00300-021-02984-4 (*Themisto libellula*)

Schardong, I. S., J. A. Freiberg, M. A. Sulzbacher, N. A. Santana, N. N. Godeiro, A. Kohler, Z. I. Antoniolli & R. J. S. Jacques 2022. Diversity of Collembola and occurrence of *Talitroides sylvaticus* in a *Pinus elliottii* Engelm afforestation. ---- *Acta Scientarum, Biological Sciences* 44: e60908. https://doi.org/10.4025/actascibiolsci.v44i1.60908 (In Rio Grande del Sul, Brazil)

Scharold, J. V. & T. D. Corry 2021. Status of the amphipod *Diporeia* spp. in Lake Superior, 2006-2016. ---- *Journal of Great Lakes Research 47*: 1033-1039. https://doi.org/10.1016/j.jglr.2021.04.013 (No severe decline in this lake)

Scheer, S. L., A. K. Sweetman, U. Piatkowski, E. K. Rohlfer & H. J. T. Hoving. 2022. Food fall-specific scavenging response to experimental medium-sized carcasses in the deep sea. —- *MEPS 685,* 31-48. https://doi.org/10.3354/meps13973 (*Eurythenes* sp. on fish and squid, smaller (unidentified) amphipods go for jellyfish)

Schell, T., S. Martinez-Perez, R. Dafouz, R. Hurley, M. Vighi & A. Rico 2022. Microplastic effects on freshwater invertebrates. Effects of polyester fibers and car tire particles on freshwater invertebrates. ---- *Environmental Toxicology and Chemistry 41,* 1555-1567. https://doi.org/10.1002/etc.5337 (i.a. *Hyalella azteca*)

Schram, F. R. & S. Koenemann 2021. Amphipoda and Ingolfiellida. Chapter 33 in '*Evolution and Phylogeny of Pancrustacea: A Story of Scientific Method'*. Oxford University Press. https://doi.org/10.1093/oso/9780195365764.001.0001 (print ISBN: 9780195365764) Pp 418-C33.P298 (Chapter 33 https://doi.org/10.1093/oso/9780195365764.003.0033) (A very thorough and interesting book with one chapter for each of our beloved crustacean groups.)

Schröder, O., J. V. Schneider, T. Schell, L. Seifert & S. U. Pauls 2021. Population genetic structure and connectivity in three montane freshwater invertebrate species (Ephemeroptera, Plecoptera, Amphipoda) with differing life cycles and dispersal capabilities. ---- *Freshwater Biology 67(5),* 1-12. https://doi.org/10.1111/fwb.13854 (*Gammarus fossarum*)

Semenchenko, V. P., T. P. Lipinskaya & A. I. Makarenko 2021. Spread rate of alien amphipods and mysids in the main rivers of Belarus. ---- *Russian Journal of Biological Invasions 12*: 302-308.

Senna, A. R., L. F. Andrade, B. S. Ramos & L. F. Skinner 2021. A new ascidian-dwelling species of *Leucothoe* Leach, 1814 (Amphipoda: Leucothoidae) from Ilha Grande Bay, Rio de Janeiro state, Brazil. ---- *Journal of Natural History 55*: 1441-1460. https://doi.org/10.1080/00222933.2021.1948128 *(L. angraensis* n. sp. from *Phallusia nigra*)

Shadrin, N., V. Yakovenko & E. Anufrieva 2022. Feeding behavior of *Gammarus aequicauda* in the presence of two prey species of *Artemi*a sp. and *Baeotendipes noctivagus. ---- Journal of Experimental Zoology A. Ecological and Integrative Physiology 337*: *768-775.* https://doi.org/10.1002/jez.2635

Shchapova, E., A. Nazarova, U. Vasilyeva, A. Gurkov, A. Ostyak, A. Mutin, R. Adelshin, N. Belkova & M. Timofeyev 2021. Cellular immune response of an endemic Lake Baikal amphipod to indigenous *Pseudomonas* sp.. ---- *Marine Biotechnology 23*: 463-471. https://doi.org/10.1007/s10126-021-10039-2. (The amphipod is *Eulimnogammarus verrucosus*)

Shintani, A., C.-W. Lee & K. Tomikawa 2022. Two new species add to the diversity of *Eoniphargus* in subterranean waters of Japan, with molecular phylogeny of the family Mesogammaridae. ---- *Subterranean Biology 44*: 21-50. https://doi.org/10.3897/subtbiol.44-86914 (Deals with *E. toriii* n. sp. (Shizuoka pref.), *E. iwataorum* n. sp. (Tochigi pref.), and *E. kojimai*. A key to *Eoniphargus* is provided, and a molecular study clarifies the position of the Mesogammaridae.)

Shokri, M., F. Cozzoli, F. Vignes, M. Bertoli, E. Pizzul & A. Basset 2022. Metabolic rate and climate change across latitudes: Evidence of mass-dependent responses in aquatic amphipods. ---- *Journal of Experimental Biology 225 (22)*: 244842. https://doi.org/10.1242/jeb.244842

Sibley, P., M. Ferreira & C. Innes 2022, First record of the Ponto-Caspian amphipod *Chelicorophium robustum* (G. O. Sars, 1895) in Great Britain with notes on the method of collection. ---- *BioInvasion Records 11*: 758-765. https://doi.org/10.3391/bir.2022.11.3.17 (In the river Thames)

Sidorova, A. I. 2022. Features of reproductive biology of invasive species *Gmelinoides fasciatus* (Crustacea: Amphipoda) inhabiting lake Onega. ---- *Russian Journal of Developmental Biology 53*: 198-207. https://doi.org/10.1134/S1062360422030079

Sikder, M., E. Eudy, B. Cai, G. T. Chandler & M. Baalousha 2021. Particle size determines the accumulation of platinum nanoparticles in the estuarine amphipod *Leptocheirus plumulosus*. ---- *Environmental Science Nano 9,* 499-510. https://doi.org/10.1039/d1en00713k

Simões, M. V. P., H. Saeedi, M. E. Cobos & A. Brandt. 202. Environmental matching reveals non-uniform range-shift patterns in benthic marine Crustaea. —--*Climate Change 168*: 31. https://doi.org/10.1007/s10584-021-03240-8 (Models predict pole-ward shift for species from lower latitudes, and shallow-water species to shift longer distances than deep-water species.)

Simon, O., F. Coppin, N. Micozzi, K. Beaugelin-Seiller, L. Fevrier, P. Henner, C. Della-Vedova, V. Camilleri & R. Gilbin 2021. Chronic toxicity of uranium to three benthic organisms in laboratory spiked sediment. ---- *Journal of Environmental Radioactivity 241*: 106776. https://doi.org/10.1016/j.jenvrad.2021.106776 (*Hyalella azteca*)

Sinclair, G. M., S. M. Long, N. Singh, T. L. Coggan, M. P. J. Askeland & O. A. H. Jones 2022. Exposure to environmentally relevant levels of PFAS causes metabolic changes in the freshwater amphipod *Austrochiltonia subtenuis*. —-*Metabolites 11*: 1135. https://doi.org/10.3390/metabo12111135

Sir, S. & K. N. White 2022. Maerid amphipods (Crustacea: Amphipoda) from Okinawa, Japan with description of a new species. ---- *Zootaxa 5093*: 569-583. https://doi.org/10.11646/zootaxa.5093.5.6 (Deals with *Ceradocus mizani* and *Elasmopus mukuinu* n.sp. (Kaichu Doro mudflats).)

Sir, S. J. & K N. White 2022. Caribbean amphipod diversity in Panama. ---- *Georgia Journal of Science 80*: art. 73. https://digitalcommons.gaacademy.org/gjs/vol80/iss1/73

Sitnikova, T. Y., T. Y. Naumova, I. V. Mekhanikova, S. I. Kiyashko, G. V. Kalmykhov, I. Karanovic, A. S. Zakharenko, Y. S. Bukin, A. V. Khabuev, V. G. Ivanov, O. M. Khlystov & T. I. Zemskaya 2022. Sluggish methane discharge and biological traits of benthic invertebrates in Lake Baikal. ---- *Hydrobiologia 849,* 1947-1968. https://doi.org/10.1007/s10750-022-04837-5

Sjøtun, K., C. S. Armitage, M. Eilertsen & C. Todt 2021. Fauna associated with non-native *Sargassum muticum* (Fucales, Phaeophyceae) vary with thallus morphology and site type (sounds

and bays). ---- *Marine Biology Research 17*: 454-466. https://doi.org/10.1080/17451000.2021.1994999 (A study from western Norway)

Soliman, Y. S., G. T. Rowe, M. Wicksten & C.-L. Wei 2022. Diversity and zonation of benthic amphipod crustaceans affected by the Mississippi Submarine Canyon in the northern Gulf of Mexico. ---- *Frontiers in Marine Science 9*: 822924. https://doi.org/10.3389/fmars.2022.822924

Soto, I., R. N. Cuthbert, D. A. Ahmed, A. Kouba, S. Domisch, J. R. G. Marquez, A. Beidas, G. Amatulli, J. Kiesel, L. Q. Shen, M. Florencio, H. Lima, E. Briski, F. Altermatt, G. Archambaud-Suard, P. Borza, Z. Csabai, T. Datry, M. Floury, M. Percellini, J.-F. Fruget, P. Leitner, M.-H. Lizée, A. Maire, A. Ricciardi, R. B. Schäfer, R. Stubbington, G. H. Van der Lee, G. Varbiro, R. C. M. Verdonschot, P. Haase & P. J. Haubrock 2022. Tracking a killer shrimp: *Dikerogammarus villosus* invasion dynamics across Europe. ---- *Diversity and Distributions 29, 157-172*. https://doi.org/10.1111/ddi.13649

Souza-Filho, J. F. & L. F. Andrade 2022. A new species of *Pleonexes* Spence Bate, 1857 (Amphipoda: Senticaudata: Ampithoidae) from the São Pedro and São Paulo Archipelago, Equatorial Atlantic, Brazil, with comments on the genus. —- *Zootaxa 5209*: 199-210. https://doi.org/10.11646/zootaxa.5209.2.3 (*Pleonexes lowryi* sp. nov. is described, the taxon *P. navosa* is upgraded to specific rank, while *P. divisura* and *P. suapensis* are transferred from *Ampithoe.* A key to world *Pleonexes* is provided.)

Spikkeland, I. & J. P. Nilssen 2021. Alien amphipods (Arthropoda; Crustacea) in the Tista Estuary, Halden, southeastern Norway. ---- *Fauna Norvegica 41*: 34-40. https://doi.org/10.5324/fn.v41i0.3957 (*Corophium multisetosum* and *Melita nitida* found in Norway for the first time)

Spinella, I. F., F. P. P. Leite & P. Moretti 2022. (Population biology of *Parhyale hawaiensis* (Hyalidae) associated with the macroalga *Bostrychia* on the rocky coast intertidal of São Sebastião, São Paulo.) ---- *XXX Congresso de Iniciacão Cientifica Unicamp*

Steinberg, C. A. W. 2022. Trophic transfer of PUFAs --'Vital ones reach top predators'. ---- Pp 773-790 in 'Aquatic Animal Nutrition'. Publ. Springer, Cham https://doi.org/10.1007/978-3-030-87227-4_30 (*Themisto abyssorum and Th. libellula*)

Stenvers, V. I., B. C. Gonzalez, F. E. Goetz, J. M. Hemmi, A.-L. Jessop, C. Lin, H.-J. T. Hoving & K. J. Osborn 2021. Extraordinary eyes reveal hidden diversity within the holopelagic genus Paraphronima (Amphipoda: Hyperiidea). ---- *Deep Sea Research Part I: Oceanographic Research Papers.* 177: 103610. https://doi.org/10.1016/j.dsr.2021.103610 (*Paraphronima robertsoni* n.sp. from the Gulf of California. Eye structure is suggested to be included when distinguishing hyperiid amphipoda)

Stark, J. S. 2022. Effects of lubricant oil and diesel on macrofaunal communities in marine sediments: A five year field experiment in Antarctica. ---- *Environmental Pollution 311*: 119885. https://doi.org/10.1016/j.envpol.2022.119885

Stringer, D. N., R. A. King, A. D. Austin & M. T. Guzik 2022. *Pilbarana*, a new subterranean amphipod genus (Hadzioidea: Eriopisidae) of environmental assessment importance from the

Pilbara, Western Australia. —- *Zootaxa 5188(6),* 559-573. https://doi.org/10.11646/zootaxa.5188.6.4 (*Pilbarana* gen. nov. with the species *P. grandis* sp. nov. and *P. lowryi* sp. nov. described using a combination of molecular and morphological characters)

Suklom, A., T. S. Keetapithchayakul, A. A. Rahim & K. Wongkamhaeng 2022. Two new species of the genus *Floresorchestia* (Crustacea, Amphipoda, Talitridae) from Amphawa Estuary, Samut Songkhram Province, Thailand. —-*Zoosystematics and Evolution 98(2),* 285-303. https://doi.org/10.3897/zse.98.83749 (*Floresorchestia amphawaensis* sp. nov. and *Floresorchestia pongrati* sp. nov.)

Sun, D. A., J. V. Bredesen, H. S. Bruce & N. H. Patel 2021. Identification and classification of cis-regulatory elements in the amphipod crustacean *Parhyale hawaiensis*. ----*Development 149*: dev200793. https://doi.org/10.1101/2021-09.16.460328

Sun, J., J.-F. Hamel, V. Shikon, E. F. Cossignani & A. Mercier 2021. Trophic ecology, diet and feeding behaviour of three bathyal sea anemones (Actiniaria: Cnidaria) in the Northwest Atlantic. ---- *Deep-Sea Research I 179*: 103678. https://doi.org/10.1016/j,dsr.2021.103678 (A seemingly undamaged amphipod (stenothoid?) from *Actinostola callosa* in fig. 1)

Sun, T., S. Wang, C. Ji, F. Li & H. Wu 2021. Microplastics aggravate the bioaccumulation and toxicity of coexisting contaminants in aquatic organisms: A synergistic health hazard. ---- *Journal of Hazardous Materials 424B*: 127533. https://doi.org/10.1016/j.jhazmat.20921.127533

Tagliaferro, M., V. D. Villanueva, L. Wolinski & C. C. Boy 2021. Galled leaves as an improved resource for benthic detritivores. ---- *Aquatic Sciences 83*: 68. https://doi.org/10.1007/s00027-021-00826-3 (*Hyalella curvispina*)

Takeuchi, I., K. Nagano & S. J. Keable 2022. A new species of *Caprella* (Crustacea: Amphipoda: Caprellidae) from Gippsland Lakes, Australia, with a redescription of *Caprella acanthogaster* Mayer, 1890 from Northern Japan. —- *Records of the Australian Museum 74* (1), 1-12. https://doi.org/10.3853/j.2201-4349.74.2022.1778 (*Caprella tamboensis* sp. nov. from Victoria and Tasmania, Australia)

Takeuchi, I., M. Shiraishi & R. Mimori 2021. A new species of the genus *Caprella* (Crustacea: Amphipoda: Caprellidae) collected from a gorgonian at 1497m depth off Boso Peninsula, Central Japan. ---- *Species Diversity 26*: 225-233. https://doi.org/10.12782/specdiv.26.225 (*Caprella nojimaensis* n. sp. from Nojima Submarine Canyon off Boso Peninsula.)

Talhaferro, J. T., M. M. Pires, C. Stenert, L. Maltchik, A. A. de P. Bueno & C. B. Kotzian 2021. Diversity and distribution of the genus *Hyalella* (Crustacea: Amphipoda: Hyalellidae) in temporary wetlands from the southern Brazilian Coastal Plain, with a taxonomic key to the species in the region. ---- *Studies on Neotropical Fauna and Environment*: online only. https://doi.org/10.1080/01650521.2021.1964902 (An appendix provides a key to all *Hyalella* species in the region)

Tawfeeq, M. M., D. Weber & J.-F. Flot 2022. A Feulgen glimpse into genome evolution during range expansion: a case study of the subterranean amphipod *Niphargus schellenbergi.* ---- *ARPHA Conference Abstracts 5*: e90203.

Taylor, J., C. Devey, M. Le Saout, S. Petersen, T. Kwasnitschka, I. Frutos, K. Linse, A.-N. Lörz, D. Palgan, A. H. Tandberg, J. Svavarsson, D. Thorhallsson, A. Tomkowicz, H. Egilsdottir, S. A. Ragnarsson, J. Renz, E. L. Markhaseva, S. Gollner, E. Paulus, J. Kongsrud, J. Beermann, K. M. Kocot, K. Meiszner, A. Bartholomä, L. Hoffmann, P. Vannier, V. Th. Marteinsson, H. T. Rapp, G. Diaz-Agras, R. Tato & S. Brix 2021. The discovery and preliminary geological and faunal description of three new Steinaholl vent sites, Reykjanes Ridge, Iceland. ----*Frontiers in Marine Science 8*: 520713. https://doi.org/10.3389/fmars.2021.520713

Teesalu, P., F. Ercoli & A. Tuvikene 2023. Behavioural responses of invasive (*Gmelinoides fasciatus*) and native (*Gammarus lacustris*) amphipods to predators on different bottom substrates. ——*Aquatic Biology,* in press. https://doiorg/10.1007/s20452-022-09999-x

Tempesti, J., J. Langeneck, L. Romani, M. Garrido, C. Lardicci, F. Maltagliati & A. Castelli 2021. Harbour type and use destination shape fouling and non-indigenous species assemblage: A study of three northern Tyrrhenian port systems (Mediterranean Sea). ---- *Marine Pollution Bulletin 174*: 113191. https://doi.org/10.1016/j.marpolbul.2021.113191

Ten, S., K. Konishi, J. A. Raga, L. A. Pastene & F. J. Aznar 2022. Epibiotic fauna of the Antarctic minke whale as a reliable indicator of seasonal movements. —-*Scientific Reports 12*: 22214 https://doi.org/10.1038/s41598-022-25929-1 (Prevalence of *Balaenocyamus balaenopterae* seems to be a good indicator for both phylogeographic studies and historical analyses of whaling)

Thomas, J. D., D. B. Cadien & K. N. White 2021. Bi-hemispheric distribution and ecology of the commensal amphipod *Leucothoe nagatai* Ishimaru, 1985 (Crustacea: Leucothoidae). ---- *Pacific Science 75*: 309-321. https://doi.org/10.2984/75.3.2

Tomikawa, K., Y. Nishimoto, N. Nakahama & T. Nakano 2022. A new species of the genus *Pseudocrangonyx* (Crustacea: Amphipoda: Pseudocrangonyctidae) from Yonaguni Island, Southwestern Japan, and historical biogeographic insights of pseudocrangonyctids. --- *Zoological Science 39*: 489-499. https://doi.org/10.2108/zs220030 (*P. dunan* n. sp.)

Tomikawa, K., T. Sasaki, M. Aoyagi & T. Nakano 2022. Taxonomy and phylogeny of the genus *Melita* (Crustacea: Amphipoda. Melitidae) from the West Pacific Islands, with descriptions of four new species. ---- *Zoologischer Anzeiger 296*: 141-160. https://doi.org/10.1016/j.jcz.2021.12.005 (Deals with *M. miyakoensis* Tomikawa & Aoyagi n. sp. (Miyakojima, Okinawa), *M. nunomurai* Tomikawa & Sasaki n. sp. (Hahajima Islands, Ogasawara Islands), *M. ogasawaraensis* Tomikawa & Sasaki n. sp. (Chichijima Island, Ogasawara) and *M. okinawaensis* Tomikawa & Nakano n. sp. (Motobu, Okinawa); all are freshwater species.)

Tomikawa, K. & T. Sonoda 2022. First record of *Abludomelita klitinii* (Amphipoda, Melitidae) from Japan. ---- *Crustaceana 95*: 79-87 https://doi.org/10.1163/15685403-bja10173 (Not seen)

Tong, Y., J. Hao, H. Liu, S. Li & Z. Hou 2021. *Floresorchestia xueli*, a new terrestrial crustacean (Amphipoda, Talitridae) from Yunnan, China. ---- *Zootaxa. 4991(2),* 318-330. https://doi.org/10.11646/zootaxa.4991.2.5 (*Floresorchestia xueli* n.sp.)

Tong, Y., X. Wang, F. Liu, S. Li & Z. Hou 2022. Taxonomic study of the genus *Gammarus* (Amphipoda, Gammaridae) from Xinjiang, China, with description of a new species. —- *Zootaxa 5120*: 97-110. https://doi.org/10.11646/zootaxa.5120.1.6 (*Gammarus hoboksar* sp. nov.; morphology and COI, 28S and rRNA)

Valentine, K. L. & A. B. A. Boxall 2022. Interactions between plastic, microbial biofilms and *Gammarus pulex*: an initial investigation. ---- *Bulletin of Environmental Contamination and Toxicology 108,* 609-615. https://doi.org/10.1007/s00128-021-03448-5

Vargas-Abundez, G., L. Martinez-Moreno, N. Simoes, E. Noreña-Barroso & M. Mascaro 2021. Marine amphipods (*Parhyale hawaiensis*) as an alternative feed for the lined seahorse (*Hippocampus erectus* Perri, 1810): nutritional value and feeding trial. ---- *Peer Journal 9*: e12288. https://doi.org/10.7717/peerj.12288

Vicente, V. S., K. F. R. Mansur, P. A. S. Longo, A. L. L. Olivino & F. P. P. Leite 2021. Variation in population and reproductive parameters of the amphipods*, Cymadusa filosa* Savigny, 1816 and *Sunamphitoe pelagica* (H. Milne-Edwards, 1830), associated with *Sargassum* beds in a historically impacted bay. ---- *Nauplius 29*: e2021041. https://doi.org/10.1590/2358-2936e2021041

Waller, A., E. R. Gonzalez, A. Verdi & I. H. Tomasco 2022. Genus *Hyalella* (Amphipoda: Hyalellidae) in Humid Pampas: molecular diversity and a provisional new species. ---- *Arthropod Systematics & Phylogeny 80*: 261-278. https://doi.org/10.3897/asp.80.e79498
(A molecular study of hyalellid diversity in Uruguay. The new species is not described here.)

Walters, A. D., D. A. Trujillo & D. J. Berg 2022. Micro-endemic species of snails and amphipods show population genetic structure across very small geographic ranges. ---- *Heredity 128,* 325-337. https://doi.org/10.1038/s41437-022-00521-5 (Not seen)

Wang, S. W., A. Wrede, N. Trembley & J. Beermann 2022. Low-frequency noise pollution impairs burrowing activities of marine benthic invertebrates. ---- *Environmental Pollution 310*: 119899. https://doi.org/10.1016/j.envpol.2022.119899 (i.a. *Corophium volutator*)

Wang, Y., Z. Sha & X. Ren 2022. Two new species of *Cyphocaris* (Amphipoda, Amphilochidea, Cyphocarididae) From Water Columns Above a Methane Seep in the South China Sea —*Frontiers in Marine Science 9*: 849449. https://doi.org/10.3389/fmars.2022.849449 (*Cyphocaris lubrica* sp. nov. from 1018 m depth and *C. formosa* sp. nov. from 500-800 m depth are described. A key to world *Cyphocarididae* species is included)

Warren, D., A. Burgess, F. Karemera, K. Bacela-Spychalska, G. Stentiford & J. Bojko 2022. Histopathological survey for parasite groups in *Gammarus varsoviensis* (Amphipoda). ---- *Diseases of Aquatic Organisms 149,* 47-51. https://doi.org/10.3354/dao03658

Watabe, M., R. Minemizu & H. Miyake 2022. First record of pandeid jellyfish, *Eutiara decorata* Berberian, Michenet and Goy, 2021 (Hydrozoa, Anthoathecata, Pandeidae) from Japan. ---- *Hydrobiology 2022-1*: 39-45. https://doi.org/10.3390/hydrobiology1020011 (A specimen of *Brachyscelus crusculum* was attached to the medusa)

Weber, D., T. Brad, F. Stoch & J.-F. Flot 2021. Rediscovery and redescription of *Niphargus enslini* Karaman, 1932 (Amphipoda, Niphargidae) in southern Germany. ---- *Subterranean Biology 40*: 65-89. https://doi.org/10.3897/subtbiol.40.73017

Weber, D., J.-F. Flot, A. C. Frantz & A. M. Weigand 2022. Molecular analyses of groundwater amphipods (Amphipoda: Niphargidae) from Luxembourg: new species reveal limitations of morphology-based checklists. —-*Zootaxa 5222(6)*: 501-533. https://doi.org/zootaxa.5222.6.1 (Morphological identification of Niphargids from the northern France, BenNeLux and Germany is impossible without support from molecular data.)

Weenink, E. F. J., M. H. S. Kraak, C. van Teulingen, S. Kuijt, M. J. van Herk, C. A. M. Sigon, T. Piel, G. Sandrini, M. Leon-Grooters, M. L. de Baat, J. Huisman & P. M. Visser 2022. Sensitivity of phytoplankton, zooplankton and macroinvertebrates to hydrogen peroxide treatments of cyanobacterial blooms. ---- *Water Research 225*:119169.. https://doi.org/10.1016/j.watres.2022.119169 (i.a. *Gammarus pulex*)

Weniger, E., A. Cornelius, J. Rolff & C. Buschbaum 2022. Soft-bottom tidepools within mixed reefs of native mussels and introduced oysters--- refuge for associated species and parasites? ---- *Journal of the Marine Biological Association UK 101,* 1019-1028. https://doi.org/10.1017/s0025315422000091

Weslawski, J. M., J. Legezynska, L. Kotwicki, M. Mazurkiewicz & S. Olenin 2022. *Gammarus* (Amphipoda) species competitive exclusion or coexistence as a result of climate change in the Arctic? ---- *Polish Polar Research 42*: 287-302. https://doi.org/10.24425/ppr.2021.138586 (*Gammarus setosus* and *G. oceanicus*)

Weston, J. N. J. & A. J. Jamieson 2022. The multi-ocean distribution of the hadal amphipod, *Hirondellea dubia* Dahl, 1959 (Crustacea, Amphipoda). ---- *Frontiers in Marine Science 9*: 824640. https://doi.org/10.3389/fmars.2022.824640

Weston, J. N. J., E. L. Jensen, M. S. R. Hasoon, J. J. N. Kitson, H. A. Stewart & A. J. Jamieson 2022. Barriers to gene flow in the deepest ocean ecosystems: Evidence from global population genomics of a cosmopolitan amphipod. ---- *Science Advances 8*: eabo6672. https://doi.org/10.1126/sciadv.abo6672 (*Bathycallisoma schellenbergi*)

Wildish, D. J., N. J. Poole, B. De Jourdan & J. Durante 2022. Oxygen uptake by wrack- and driftwood-acclimated populations of *Platorchestia platensis* (Amphipoda, Talitridae) during feeding and fasting. — *Crutaceana 95 (10-12),* 1101-1114. https://doi,org/10.1163/15685403-bja10237

Wildish, D. J., S. M. C. Robinson & M. Black 2021. Locomotor activity rhythms of North Atlantic coastal talitroids ---- *Marine and Freshwater Behaviour and Physiology 54*: 181-202. https://

doi.org/10.10180/10236244.2021.1993737 (Many most interesting data on several talitrids and the hyalid *Apohyale prevostii*.)

Willassen, E., J.-I. Westgaard, J. A. Kongsrud, T. Hanebrekke, P. Buhl-Mortensen & B. Holte 2022. Benthic invertebrates in Svalbard fjords—when metabarcoding does not outperform traditional biodiversity assessment. ---- PeerJournal 10: e14321. https://doi.org/10.7717/peerj.14321

Williams, T. N., F. I. Vacchi, A. dos Santos, G. de A. Umbuzeiro & H. S. Freeman 2022. Metal-complexed monoazo dyes as sustainable permanent hair dye alternatives—Toxicological and durability properties. ---- *Dyes and Pigments 197*: 109819. https://doi.org/10.1016/j.dyepig.2021.109819 (*Parhyale hawaiensis*)

Willis, A. & A. W. Reinke 2022. *Factors that determine Microsporidia infection and host specificity.* ----Chapter 4, pp 91-114 in L. M. Weiss & A. W. Reinke (eds). Microsporidia. Current advances in Biology, Springer (Experientia Supplementum 114).

Winfield, I., M. Ortiz, S. Chazaro-Olvera & M. A. Lozana-Aburto 2022. A Checklist of benthic amphipods (Crustacea: Peracarida) in coral reefs of the protected area Tuxpan-Lobos, Mexico, SW Gulf of Mexico. —-*Gulf and Caribbean Research 33,* 28-38. https://doi.org/10.18785/gcr.3301.04

Wongkamhaeng, K., P. Dumrongrojwattana, R. Sumitrakij, T. S. Keetapithchayakul. 2022. *Thailandorchestia rhizophila* sp. nov., a new genus and species of driftwoodhopper (Crustacea, Amphipoda, Protorchestiidae) from Thailand. —-*Zookeys 1099,* 139-153. https://doi.org/10.3897/zookeys.1099.82949 (*Thailandorchestia rhizophila* (gen. et sp. nov.) from mangrove roots and rotting logs in Ko Kut District of the Trat Province, Thailand. A key to the genera of Protorchestiidae is included.)

Yamakawa, U., D. Uchida & M. Kodama 2022. (Northernmost record of *Jesogammarus (Jesogammarus) hinumensis* Morino, 1993 (Malacostraca: Amphipoda: Anisogammaridae) from the Imaizumi River flowing into the Lake Jusan in Aomori Prefecture, Japan.) ---- *Japanese Journal of Benthology 76*: 13-16 (In Japanese)

Yardy, L & A. Callaghan 2021. Microplastic and organic fibres in feeding, growth and mortality of *Gammarus pulex*. ----*Environments 8*: 74. https://doi.org/10.3390/environments8080074

Yildirim, N. C., O. Serdar & S. Basaran 2021. The use of *Gammarus pulex* as a model organism for ecotoxicological assessment of ibuprofen and propranolol at environmental relevant concentrations. ---- *International Journal of Environmental Health Research 32,* 2385-2395. https://doi.org/10.1080/09603123.2021.1967888

Zamanpoore, M. 2021. *Biodiversity of the freshwater amphipods in Iran*. ---- AQEC 11 (Not seen, unfortunately.)

Zehmer, J. R., S. A. Mahon & G. M. Capelli 2022. Calcium as a limiting factor in the distribution of the amphipod *Gammarus pseudolimnaeus.* ---- *American Midland Naturalist 148*: 350-362.

Zeidler, W. 2021. A review of the hyperiidean amphipod family Brachyscelidae Stephensen, 1923 (Crustacea: Amphipoda: Hyperiidea). ----- *Zootaxa 5026*, 405-439. https://doi.org/10.11646/zootaxa.5026.3.4 (Five valid species are recognized—and a key provided-: *B. crusculum, B. rapax, B. rapacoides, B. globiceps* and *B. macrocephalus*. All are fully redescribed and illustrated)

Zeidler, W. 2021. Redescription of two rare, deep-sea species of hyperiidean amphipod, *Lanceola loveni antarctica* Vinogradov, 1962 and *L. sphaerica* Vinogradov, 1970 (Crustacea: Amphipoda: Hyperiidea: Lanceolidae). ---- *Zootaxa 5067,* 106-114. https://doi.org/10.11646/zootaxa.5067.1.6

Zeidler, W. 2021. Review of the hyperiidean amphipod family Lycaeidae Claus, 1879 (Crustacea: Amphipoda: Hyperiidea). ---- *Zootaxa 5081,* 1-59. https://doi.org/10.11646/zootaxa.5081.1.1 (Deals extensively with 10 species of *Lycaea* and one of *Simorhynchotus. Lycaea intermedia* n. sp. (SW Indian Ocean, N. of Madagascar), *L. osbornae* n. sp. (Georges Bank, NW. Atlantic) and *L. proserrata* n. sp. (tropical W. Atlantic, NE of French Guyana) are newly described. *Amphipronoe longicornis* is shown to be a junior synonym of *L. vincentii*. A key to all Lycaeidae is provided.)

Zeidler, W. 2022. Redescription of the rare, deep-sea hyperiidean amphipod *Megalanceoloides remipes* (K. H. Barnard, 1932) (Crustacea: Amphipoda: Hyperiidea), including the first description of males. —-*Zootaxa 5094,* 341-350. https://doi.org/10.11646/zootaxa.5094.2.8

Zettler, M. L., E. A. Hendrycks & A. Freiwald 2022. A new amphipod species of the bathyal genus *Dautzenbergia* Chevreux, 1900 (Amphipoda, Calliopioidea, Pontogeneiidae) associated with cold-water corals off Angola. ---- *Zootaxa 5213,* 49-63. https://doi.org/10.11646/zootaxa.5213.1.3 *(D. concavipalma* n. sp. Buffalo Mound, off Angola, the type specimens associated with sponges in a *Desmophyllum* gallery. The taxon *Pleusymtes comitari* is transferred to *Dautzenbergia*. A key to all species is provided.)

Zhang, K., J. Wang, Y. Ge, J. Ma & Q. Zhou. 2022. A new *Gammarus* species from Xinjiang Uygur Autonomous Region (China) with a key to Xinjiang freshwater gammarids (Crustacea, Amphipoda, Gammaridae). —-*ZooKeys 1090,* 129-147. https://doi.org/10.3897/zookeys.1090.78834 (*Gammarus zhouqiongi* sp. nov. described morphologically and using CO1, 16S, 28S and EF1α.)

Zhao, Z., Z.-E. Hou & S.-Q. Li 2021. Cenozoic Tethyan changes dominated Eurasian animal evolution and diversity patterns. ---- *Zoological Research 43,* 3-13.

Zilius, M., D. Daunys, M. Bartoli, U. Marzocchi, S. Bonaglia, U. Cardini & G. Castaldelli 2021. Partitioning benthic nitrogen cycle processes among three common macrofauna holobionts. ---- *Biogeochemistry 157,* 193-213. https://doi.org/10.1007/s10533-021-00867-8 (i.a. *Monoporeia affinis*)

## Compilation of Amphipod relevant literature

Please tell the AN editors about your recent publications on amphipods - and send a pdf of your paper.

# NEW TAXA

## FAMILIES

| | |
|---|---|
| **Platorchestiinae** Lowry & Myers, 2022 | Talitridae |

## GENERA

| | |
|---|---|
| **Bathypisella** Ortiz, Winfield & Ardisson, 2022 | Eriopisidae |
| **Cocorchestia** Lowry & Myers, 2022 | Talitridae |
| **Cryptohaustorius** Hancock, Ogawa, Light & Wicksten, 2022 | Haustoriidae |
| **Demaorchestia** Lowry & Myers, 2022 | Talitridae |
| **Dentimelita** Paz-Rios & Pech, 2022 | Melitidae |
| **Glandulotiron** Just, 2022 | Synopiidae |
| **Insularorchestia** Lowry & Myers, 2022 | Talitridae |
| **Magnaphoxus** Andrade, Souza-Filho & Senna 2022 | Phoxocephalidae |
| **Mauritiorchestia** Green, Appadoo, Lowry & Myers, 2021 | Talitridae |
| **Metodius** Ariyama, 2021 | Odiidae |
| **Minitiron** Just, 2022 | Synopiidae |
| **Paraeperopeus** Paz-Rios & Pech, 2022 | Pardaliscidae |
| **Pilbarana** Stringer & King in Stringer et al, 2022 | Eriopisidae |
| **Sicifera** Cannizzaro, Daniels & Berg, 2021 | Crangonyctidae |
| **Thailandorchestia** Wongkamhaeng et al., 2022 | Protorchestiidae |
| **Tironella** Just, 2022 | Synopiidae |
| **Uralocrangonyx** Marin & Palatov, 2022 | Crangonyctidae |

## SPECIES

| | |
|---|---|
| **actiniae** Marin, Sinelnikov & Antokhina, 2022 (*Pleusymtes*) | Pleustidae |
| **adjaricus** Palatov & Marin, 2021 (*Pontonyx*) | Crangonyctidae |
| **ajaja** Andrade, Souza-Filho & Senna, 2022 (*Magnaphoxus*) | Phoxocephalidae |
| **albifacies** Ariyama, 2021 (*Postodius*) | Odiidae |
| **amphawaensis** Suklom, Keetapithchayakul, Rahim & Wongkamhaeng, 2022 (*Floresorchestia*) | Talitridae |
| **angraensis** Senna, Andrade, Ramos & Skinner, 2021 (*Leucothoe*) | Leucothoidae |
| **aosen** Hou, 2022 (in Liu et al., 2022) (*Morinoia*) | Talitridae |
| **aotearoensis** Just, 2022 (*Glandulotiron*) | Synopiidae |
| **apalachee** Cannizzaro & Sawicki (in Cannizzaro, Sisco & Sawicki, 2022) (*Crangonyx*) | Crangonyctidae |
| **bala** Penoni & Bueno (in Penoni et al., 2021) (*Hyalella*) | Hyalellidae |
| **bassianus** Just, 2022 (*Glandulotiron*) | Synopiidae |
| **bathyalis** Just, 2022 (*Tironella*) | Synopiidae |
| **biarticulata** Ariyama & Kohtsuka, 2022 (*Aora*) | Aoridae |
| **brunoi** Cummings, Araujo, Andrade & Senna, 2022 (*Dulichiella*) | Melitidae |

**cahawba** Cannizzaro, Daniels & Berg, 2021 (*Sicifera*) Crangonyctidae
**canadense** Just, 2022 (*Tiron*) Synopiidae
**canensis** King & Cooper (in King *et al.*, 2022) (*Nedsia*) Eriopisidae
**cangio** Marin & Palatov, 2022 (*Victoriopisa*) Eriopisidae
**carmelina** Ceriello, Senna, Andrade & Stampar, 2022 (*Podocerus)* Podoceridae
**casteresi** Jaume & Vonk, 2021 (*Salentinella*) Salentinellidae
**cheela** King & Cooper (in King et al., 2022) (*Nedsia*) Eriopisidae
**cigomensis** Paz-Rios & Pech, 2022 (*Tosilus*) Pardaliscidae
**colchicus** Marin & Palatov (in Palatov & Marin, 2021) (*Pontonyx*) Crangonyctidae
**concavipalma** Zettler, Hendrycks & Freiwald, 2022 (*Dautzenbergia*) Pontogeneiidae
**concavus** Just, 2022 (*Glandulotiron*) Synopiidae
**covelongensis** Raut*,* Prakash, Arjunan & Kumar, 2022 (*Protohyale*) Hyalidae
**curvispinus** Just, 2022 (*Glandulotiron*) Synopiidae
**cyanomaculatus** Ariyama, 2021 (*Metodius*) Odiidae
**dunan** Tomikawa, Nishimoto, Nakahama & Nakano, 2022 (*Pseudocrangonyx*) Pseudocrangonyctidae
**ecosur** Paz-Rios & Pech, 2022 (*Pardaliscoides*) Pardaliscidae
**enslini** Karaman, 1932 (rev., by Weber et al., 2021) (*Niphargus)* Niphargidae
**erinnae** King & Cooper (in King et al, 2022) (*Nedsia*) Eriopisidae
**faroensis** Kaim-Malka, Bellan-Santini & Dauvin, 2021 (*Haploops*) Ampeliscidae
**fatimae** Isa Miranda & Peralta, 2022 (*Hyalella)* Hyalellidae
**fayetta** Green, Appadoo, Lowry & Myers, 2021 *(Mauritiorchestia*) Talitridae
**formosa** Wang, Sha & Ren 2022 (*Cyphocaris*) Cyphocarididae
**ginae** Bueno & Penoni (in Bueno et al., 2022) (*Spelaeogammarus*) Artesiidae
**gracilis** Ariyama & Kohtsuka, 2022 (*Grandidierella*) Aoridae
**grandis** Stringer & King (in Stringer et al. 2022) (*Pilbarana*) Eriopisidae
**griffithsi** Just, 2022 (*Glandulotiron*) Synopiidae
**hatakejima** Lowry & Myers, 2022 (*Demaorchestia)* Talitridae
**hexamatius** Just, 2022 (*Glandulotiron*) Synopiidae
**hoboksar** Hou (in Tong *et al,* 2022) (*Gammarus*) Gammaridae
**insulae** Rangel, Limberger & Castiglioni (in Rangel *et al*, 2022)(*Hyalella*) Hyalellidae
**intermedia** Zeidler, 2021 (*Lycaea*) Lycaeidae
**ispani** Palatov & Marin, 2021 (*Synurella*) Crangonyctidae
**iwataorum** Shintani, Lee & Tomikawa, 2022 (*Eoniphargus*) Mesogammaridae
**joima** Lowry & Myers, 2022 (*Demaorchestia*) Talitridae
**kaholaloa** Longenecker & Myers, 2021 (*Bemlos)* Aoridae
**lecroyae** Paz-Rios & Pech, 2022 (*Dentimelita*) Melitidae
**ledoyeri** Longenecker & Myers, 2021 (*Bemlos)* Aoridae
**leucomaculatus** Ariyama, 2021 (*Metodius*) Odiidae
**lilljeborgi** (Just, 2022) (*Tiron)* Synopiidae
**longicarpus** Andrade, Souza-Filho & Senna 2022 (*Magnaphoxus*) Phoxocephalidae
**longirostris** Paz-Rios & Pech, 2022 (*Paraeperopeu*s) Pardaliscidae
**longipropodus** Limberger, Graichen & Castiglioni (in Limberger et al., 2021) *(Hyalella)* Hyalellidae
**longisetae** Andrade, Souza-Filho & Senna, 2022 (*Leptophoxoides)* Phoxocephalidae
**lowryi** Souza-Filho & Andrade, 2022 (*Pleonexes*) Ampithoidae
**lowryi** Stringer & King (in Stringer *et al*. 2022) (*Pilbarana*) Eriopisidae

**lubrica** Wang, Sha & Ren, 2022 (*Cyphocaris*) Cyphocarididae
**luciae** Limberger, Santos & Castiglioni, 2022 (*Hyalella*) Hyalellidae
**macrops** Ariyama & Kawabe, 2022 (*Aorides*) Aoridae
**magnumoculis** Labay, 2022 (*Eosymtes*) Pleustidae
**mcraeae** King & Cooper (in King *et al*, 2022) (*Nedsia*) Eriopisidae
**meruspinosus** Just, 2022 (*Glandulotiron*) Synopiidae
**mie** Lowry & Myers, 2022 (*Demaorchestia*) Talitridae
**miratus** Just, 2022 (*Pseudotiron*) Synopiidae
**miyakoensis** Tomikawa & Aoyagi (in Tomikawa *et al*, 2022) (*Melita*) Melitidae
**moorei** Myers & Ashelby, 2022 (*Pontocrates*) Oedicerotidae
**mukuinu** Sir & White, 2022 (*Elasmopus*) Maeridae
**nanutarra** King & Cooper (in King *et al*, 2022) (*Nedsia*) Eriopisidae
**nhatrangensis** Marin & Palatov, 2022 (*Victoriopisa*) Eriopisidae
**nojimaensis** Takeuchi, Shiraishi & Mimori, 2021 (*Caprella*) Caprellidae
**norvegicus** (Boeck, 1860) Myers & Ashelby, 2022(rev.) (*Pontocrates*) Oedicerotidae
**nunomurai** Tomikawa & Sasaki (in Tomikawa *et al*, 2022) (*Melita)* Melitidae
**ogasawaraensis** Tomikawa & Sasaki (in Tomikawa *et al*, 2022) (*Melita*) Melitidae
**ogasawarensis** Ariyama & Kawabe, 2022 (*Grandidierella*) Aoridae
**okinawaensis** Tomikawa & Nakano (in Tomikawa *et al*, 2022) (*Melita*) Melitidae
**orpheus** Just, 2022 (*Minitiron*) Synopiidae
**osbornae** Zeidler, 2021 (*Lycaea*) Lycaeidae
**oxalai** Nogueira, Alves, Neves & Johnsson, 2021 (*Photis*) Photidae
**pannawonica** King & Cooper (in King *et al.*, 2022) (*Nedsia*) Eriopisidae
**patriciae** Hendrycks & De Broyer, 2022 (*Abyssorchomene)* Uristidae
**perdido** Paz-Rios & Pech, 2022 *(Pardaliscella*) Pardaliscidae
**pilocaputis** Just, 2022 (*Glandulotiron*) Synopiidae
**pongrati** (Suklom, Keetapithchayakul, Rahim & Wongkamhaeng, 2022) (*Floresorchestia*) Talitridae
**postremus** Just, 2022 (*Glandulotiron*) Synopiidae
**potiguara** Andrade, Senna & Souza-Filho, 2022 (*Foxiphalus*) Phoxocephalidae
**proserrata** Zeidler, 2021 (*Lycaea*) Lycaeidae
**pseudojoi** Lowry & Myers, 2022 (*Demaorchestia*) Talitridae
**quobba** King & Cooper (in King *et al.*, 2022) (*Nedsia*) Eriopisidae
**rhizophila** Wongkamhaeng *et al*., 2022 (*Thailandorchestia*) Protorchestiidae
**robensis** King & Cooper (in King *et al.*, 2022) (*Nedsia*) Eriopisidae
**robertsoni** Stenvers & Osborn (in Stenvers *et al*, 2021)(*Paraphronima*) Phronimidae
**rocagloria** Coleman, Krapp-Schickel & Häussermann, 2022 (*Liouvillea*) Pontogeniidae
**sagamiense** Just, 2022 (*Tiron*) Synopiidae
**sagamiensis** Ariyama & Kohtsuka, 2022 (*Aoroides*) Aoridae
**salsevisio** Just, 2022 (*Glandulotiron*) Synopiidae
**sanguineus** Ariyama, 2021 (*Postodius*) Odiidae
**septimus** Just, 2022 (*Glandulotiron*) Synopiidae
**shannonae** Hendrycks & De Broyer, 2022 (*Abyssorchomene*) Uristidae
**shanti** Gasca, Suárez-Morales & Hendrickx, 2021 (*Amphithyropsis*) Amphithyridae
**shawensis** King & Cooper (in King *et al*, 2022) (*Nedsia*) Eriopisidae
**simplex** Andrade, Souza-Filho & Senna 2022 (*Magnaphoxus*) Phoxocephalidae
**spicatimanus** Labay, 2022 (?*Desdimelita*) Melitidae

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|---|---|
| **spinicauda** Ortiz, Winfield & Ardisson, 2022) (*Bathypisella)* | Eriopisidae |
| **spinipes** Just, 2022 (*Glandulotiron*) | Synopiidae |
| **spinosa** Shoemaker, 1931 (rev., by Kaim-Malka *et al*., 2021) (*Haploops*) | Ampeliscidae |
| **spiridonovi** Marin & Palatov (in Palatov & Marin, 2021) (*Synurella*) | Crangonyctidae |
| **stasiuki** Jazdzewski, Mamos & Grabowski (in Mamos *et al*., 2021) (*Gammarus*) | Gammaridae |
| **suassuna**i Andrade & Souza-Filho, 2022 (*Biancolina*) | Ampithoidae |
| **susorum** Lowry & Myers, 2022 (*Insularorchestia*) | Talitridae |
| **tamboensis** Takeuchi, Nagano & Keable, 2022 (*Caprella*) | Caprellidae |
| **tatrensis** (S. Karaman, 1931) (rev., by Mamos *et al*., 2021) (*Gammarus*) | Gammaridae |
| **toriii** Shintani, Lee & Tomikawa, 2022 (*Eoniphargus*) | Mesogammaridae |
| **touzeti** Ortiz & Winfield, 2022 (*Vemana*) | Vemanidae |
| **truncata** Kaim-Malka, Bellan-Santini & Dauvin, 2021 (*Haploops*) | Ampeliscidae |
| **vermicola** Kodama, White, Hosoki & Yoshida, 2022 (*Leucothoe*) | Leucothoidae |
| **virginiae** Lares, Penoni & Bueno (in Penoni *et al*., 2021) (*Hyalella*) | Hyalellidae |
| **wanna** King & Cooper (in King *et al*, 2022) (*Nedsia*) | Eriopisidae |
| **weelumurra** King & Cooper (in King *et al*., 2022) (*Nedsia*) | Eriopisidae |
| **winfieldi** Paz-Rios & Pech, 2022 (*Neohela*) | Unciolidae |
| **wyloo** King & Cooper (in King *et al*, 2022) (*Nedsia*) | Eriopisidae |
| **yarraloola** King & Cooper (in King *et al*, 2022) (*Nedsia*) | Eriopisidae |
| **xueli** Tong, Hao et al, 2021 (*Floresorchestia*) | Talitridae |
| **zhouqiongi** Zhang, Wang, Ge, Ma & Zhou, 2022 (*Gammarus*) | Gammaridae |

# Taxonomic overview

Ampeliscidae
- Haploops **faroensis, spinosa (rev.), truncata**

Amphithyridae
- Amphithyropsis **shanti**

Ampithoidae
- Biancolina **suassunai**
- Pleonexes **lowryi**

Aoridae
- Aora **biarticulata**
- Aorides **macrops, sagamiensis**
- Bemlos **kaholaloa, ledoyeri**
- Grandidierella **gracilis**, **ogasawarensis**

Artesiidae

Spelaeogammarus **ginae**

Caprellidae
Caprella **nojimaensis, tamboensis**

Crangonyctidae
Crangonyx **apalachee**
Pontonyx **adjaricus, colchicus**
**Sicifera cahawba**
Synurella **ispani, spiridonovi**
**Uralocrangonyx**

Cyphocarididae
Cyphocaris **formosa, lubrica**

Eriopisidae
**Bathypisella spinicauda**
Nedsia **canensis, cheela, erinnae, mcraeae, nanutarra, pannawonica, quobba, robensis, shawensis, wanna, weelumurra, wyloo, yarraloola**
**Pilbarana grandis**, **lowryi**
Victoriopisa **cangio, nhatrangensis**

Gammaridae
Gammarus **hoboksar**, **stasiuki, tatrensis (rev.), zhouqiongi**

Haustoriidae
**Cryptohaustorius**

Hyalellidae
Hyalella **bala**, **fatimae**, **insulae**, **longipropodus, luciae, virginiae**

Hyalidae
Protohyale **covelongensis**

Leucothoidae
Leucothoe **angraensis, vermicola**

Lycaeidae
Lycaea **intermedia, osbornae, proserrata**

Maeridae
Elasmopus **mukuinu**

Melitidae
**Dentimelita lecroyae**
Desdimelita **spicatimanus**
Dulichiella **brunoi**

Melita **miyakoensis, nunomurai, ogasawaraensis, okinawaensis**

Mesogammaridae
Eoniphargus **iwataorum, toriii**

Niphargidae
Niphargus **enslini (rev.)**

Odiidae
**Metodius cyanomaculatus, leucomaculatus**
Postodius **albifacies, sanguineus**

Oedicerotidae
Pontocrates **moorei, norvegicus** (rev.)

Paraphronimidae
Paraphronima **robisoni**

Pardaliscidae
**Paraeperopeus longirostris**
Pardaliscella **perdido**
Pardaliscoides **ecosur**
Tosilus **cigomensis**

Photidae
Photis **oxalai**

Phoxocephalidae
Foxiphalus **potiguara**
Leptophoxoides **longisetae**
**Magnaphoxus ajaja, longicarpus, simplex**

Phronimidae
Paraphronima **robertsoni**

Pleustidae
Eosymtes **magnumoculis**
Pleusymtes **actiniae**

Podoceridae
Podocerus **carmelina**

Pontogeneiidae
Dautzenbergia **concavipalma**
Liouvillea **rocagloria**

Protorchestiidae

**Thailandorchestia rhizophila**

Pseudocrangonyctidae
Pseudocrangonyx **dunan**

Salentinellidae
Salentinella **casteresi**

Synopiidae
**Glandulotiron aotearoensis, bassianus, concavus, curvispinus, griffithsi, hexamatius, meruspinosus, postremus, pilocaputis, salsevisio, septimus, spinipes**
**Minitiron orpheus**
Pseudotiron **miratus**
Tiron **canadensis, lilljeborgi, sagamiensis**
**Tironella bathyalis**

Talitridae
**Cocorchestia**
**Demaorchestia hatakejima, joima, mie, pseudojoi**
Floresorchestia **amphawaensis**, **pongrati**, **xueli**
**Insularorchestia susorum**
**Mauritiorchestia fayetta**
Morinoia **aosen**

Unciolidae
Neohela **winfieldi**

Uristidae
Abyssorchomene **patriciae**, **shannonae**

Vemanidae
Vemana **touzeti**

# Amphipod Newsletter - Quo Vadis?

In the previous Amphipod Newsletter the editors asked for help form the readers to find out where we should continue with the AN. Wim asked questions about the bibliography: especially "does anyone use the bibliography?" and "should we include non-taxonomic works in the bibliography?". We also asked if we should include other "editorial" content (about people, excursions, history), and if anybody would like to help us.

We opened an online survey (https://www.surveymonkey.com/r/92RLFJC), and have kept this open for a little more than a year.

Main conclusions:
- All responders read the Amphipod Newsletter (this might be a bias in the survey)
- Most responders read the list of new taxa, second "in demand" are the editorial and counting of papers and taxa, while ⅔ of the respondents seem to read everything.
- Most popular in the bibliography are the taxonomic papers

A more thorough analysis and discussion will be presented at the 19th ICA in Djerba, and we are very grateful to all those who answered our survey.

*the editors*


# 10th International Crustacean Congress

## 22-26 May 2023

The abstract deadline is over, but the early bird registration is until March 24th. Several amphipod-friendly symposia are listed. Please see https://confer.eventsair.com/icc10/ for more information.

# Amphipod workshop in connection with ICC


After the exciting tenth International Crustacean Congress (www.icc10.org ), there is bonus added content for the amphipod and amphipod curious community.

Following the ICC10 there will be a 4 day (29th May - 1st June) combined amphipod and bioinformatics of peracarids workshop.

This workshop will be held in Wellington (at NIWA) aimed at bringing together established researchers with those earlier in their career to pass on the secret ways of the amphipod and will include the following joys.

The format will be half day (each day) of seminars and discussions (Amphipod systematics/biology/future work/bioinformatics/phylogenetics), with the rest of the time blitzing the NIWA Invertebrate extensive amphipoda collections that range from shallow-water to the deepest hadal to freshwater and terrestrial samples. The aim is to specify your group and work up a group that can be published as a special issue.

- and maybe a small field trip or 2 (marine and freshwater) depending on interest

- an amazing opportunity to sample amphipods, coffee, craft beer and wine, and the amazing Aotearoa environment.

We are also keen to have a Jim Lowry memorial session on the final day finishing off with a commemoration dinner.

There will be no cost - you will just have to cover your accomodation and flights.

Kia mauri tau, kia ngākau māhaki, kia ora

Be calm, be kind, be well

*Rachael Peart*

**Express your interest:**

Email: rachael.peart@niwa.co.nz

Smithsonian

## Smithsonian Tropical Research Institute (STRI)

SHORT COURSE ON

# Taxonomy and Ecology of Amphipod Crustaceans

**DATES**

June 18th - July 1st, 2023

**LOCATION**

Bocas Research Station,
Bocas del Toro, Panama

**INSTRUCTORS**

Dr Kris White
Dr. Lauren Hughes

**REGISTRATION FEE**

$800 (includes room and board STRI registration fee, etc.). Some need-based fellowships are available.

## Application

Please e-mail your CV, 1 letter of recommendation, and a 1-2 page statement explaining your background and reasons for taking the course, to bocasresearchstation@gmail.com before January 20th, 2023. To be considered for a need-based fellowship, applicants should send a description of their need, their efforts to obtain funding from other available sources, and a travel budget.

For more information see:
https://stri-sites.si.edu/sites/taxonomy_training/

Bocas Research Station BocasStation BocasResearchStation

# The Old Photo

During his presentation at the 18th ICA in Dijon August 2019, José Guerra-García showed several old photos from the early amphipod meetings. José has shared these photos with the AN, and we plan to share them here, to make sure everybody have the possibility to enjoy these photographic gems. Thank you to José for collecting these pictures, and for making them available to everybody.

For this newsletter we give you a "semi-old" photo, only 20 years old - from the previous ICA in Tunisia in 2003. With this we already look forward to seeing you in Djerba!

**How do you get in touch with the Amphipod Newsletter?**

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