

## Electronic resources

### Meiobenthic groups within the World Register of Marine Species

The aim of a World Register of Marine Species (WoRMS) is to provide an authoritative and comprehensive list of names of marine organisms, including information on synonymy. While the highest priority goes to valid names, other names in use are included so that this register can serve as a guide to interpret taxonomic literature. Next to taxonomy, the system can also store distribution information, literature, attributes or traits, specimen information including type localities and images.

The World Register of Marine Species (WoRMS) is available at [www.marinespecies.org](http://www.marinespecies.org). The text on the WoRMS pages is open-access under the terms of the Creative Commons Attribution License (CC-BY), which permits unrestricted use as long as the provided citation is used. Upon request by the editors-in-charge, a dedicated portal can be created for a taxonomic group – referred to as a Global Species Database – giving more visibility to their group and recognition to the involved editors. It also allows editors to elaborate more on their group and - in some cases – a dedicated news feed and twitter messages. An overview of the available registers for

Total number of species names (accepted & unaccepted) available in each group (including all environments, excluding fossil species)		
Taxa	# species	Portal
Cnidaria	22 560	through WoRMS
Platyhelminthes	24 602	<a href="http://www.marinespecies.org/turbellarians/">http://www.marinespecies.org/turbellarians/</a>
Nemertea	2 725	<a href="http://www.marinespecies.org/nemertea/">http://www.marinespecies.org/nemertea/</a>
Gnathostomulida	113	through WoRMS
Kinorhyncha	363	through WoRMS
Loricifera	28	through WoRMS
Nematoda	10 855	<a href="http://nemys.ugent.be/">http://nemys.ugent.be/</a>
Rotifera	317	through WoRMS
Gastrotricha	1 069	through WoRMS
Priapulida	21	through WoRMS
Sipuncula	1 294	through WoRMS
Annelida	25 439	through WoRMS (in part: <a href="http://www.marinespecies.org/polychaeta">http://www.marinespecies.org/polychaeta</a> )
Arthropoda - Copepoda	23 071	<a href="http://www.marinespecies.org/copepoda/">http://www.marinespecies.org/copepoda/</a>
Arthropoda - Halacaroida	1462	through WoRMS
Arthropoda - Ostracoda	14 521	<a href="http://www.marinespecies.org/ostracoda/">http://www.marinespecies.org/ostracoda/</a>
Arthropoda - Mystacocarida	14	through WoRMS
Arthropoda - Tantulocarida	42	through WoRMS
Tardigrada	1588	<a href="http://www.marinespecies.org/tardigrada/">http://www.marinespecies.org/tardigrada/</a>
Mollusca	113 831	<a href="http://www.molluscabase.org/">http://www.molluscabase.org/</a>
Bryozoa	8 169	through WoRMS
Brachiopoda	679	through WoRMS
Echinodermata	21 176	through WoRMS (in part: <a href="http://www.marinespecies.org/echinoidea">http://www.marinespecies.org/echinoidea</a> & <a href="http://www.marinespecies.org/asteroidea">http://www.marinespecies.org/asteroidea</a> )
Chordata	59 753	through WoRMS
Sarcomastigota	435	through WoRMS
Ciliophora	4 188	through WoRMS

phyla containing meiobenthic representatives is given in the table. Next to the marine representatives, editors can also document the non-marine taxa in their group, thereby creating a single entry-point for their cross-environment group.

Within the attributes section of WoRMS, it is the goal to document the size class to which each species belongs, so a general filter can be applied to group e.g. all meiofaunal species across taxa. This is still a work in progress. In addition, it will be documented whether species belong to the benthos or the pelagos, taking into account the life stage. Keeping WoRMS and its Global Species Databases up-to-date is a continuous process. New information is entered daily by the taxonomic editors and by the members of our data management team. No database of this size is without errors and omissions. Although we cannot promise to make no errors, but we do promise to follow up and give feedback on any communications pointing out errors. All feedback is very welcome through [info@marinespecies.org](mailto:info@marinespecies.org).

*Leen Vandepitte*

## Recent Literature

### *Marine and general*

Annapurna, C., et al. "Loricifera, an under known phyla: first record of higgins larva of *Armorloricus* (Loricifera: Nanaloricidae) from Indian waters." 46.02 (2017): 317-321.

Ansari, Kapuli Gani Mohamed Thameemul, and Punyasloke Bhadury. "An updated species checklist for free-living marine nematodes from the world's largest mangrove ecosystem, Sundarbans." *Zootaxa* 4290.1 (2017): 177-191.

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Bastami, Kazem Darvish, et al. "Nematode community structure in relation to metals in the southern of Caspian Sea." *Acta Oceanologica Sinica* 36.10 (2017): 79-86.

Caridi, Francesca, et al. "A new Arctic seepage site? Preliminary evidence from benthic community." *EGU General Assembly Conference Abstracts*. Vol. 19. 2017.

Cesaroni, Lucia, et al. "Scanning electron microscopy in the taxonomical study of free-living marine nematodes." *Microscopie* 28.2 (2017): 31-38.

Cvitković, Ivan, et al. "Structure of epibiontic and sediment meiofauna in the area invaded by invasive alga *Caulerpa taxifolia*." *Marine Biology* 164.1 (2017): 4.

de Jesús-Navarrete, Alberto. "Littoral free living nematode fauna of Socorro Island, Colima, Mexico." *Hidrobiológica* 17.1 (2017): 61-66.

Fu, Sujing, et al. "Nematode responses to the invasion of exotic *Spartina* in mangrove wetlands in southern China." *Estuaries and Coasts* 40.5 (2017): 1437-1449.

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Garraffoni, André Rinaldo Senna. "Checklist of Gastrotricha from Mato Grosso do Sul state, Brazil." *Iheringia. Série Zoologia* 107 (2017): 1-4.

Garraffoni, André RS, Maikon Di Domenico, and Rick Hochberg. "New records of marine Gastrotricha from São Sebastião Island (Brazil) and the description

- of a new species." *Marine Biodiversity* 47.2 (2017): 451-459.
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- Hochberg\*, Rick, et al. "A Tribute to William Hummon—Gastrotrich Biologist Extraordinaire." *Proceedings of the Biological Society of Washington* 130.1 (2017): 113-119.
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- Jouili, Soufiane, et al. "Environmental quality assessment of El Bibane lagoon (Tunisia) using taxonomic and functional diversity of meiofauna and nematodes." *Journal of the Marine Biological Association of the United Kingdom* 97.8 (2017): 1593-1603.
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#### *Freshwater*

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Du Preez G, Majdi N, Swart A, Traunspurger W, Fourie H (2017) Nematodes in caves: a historical perspective

on their occurrence, distribution and ecological relevance. *Nematology* 19 (6):627-644

Garraffoni ARS (2017) Checklist of Gastrotricha from Mato Grosso do Sul state, Brazil. *Iheringia Série Zoologia* 107:doi: 10.1590/1678-4766e2017104

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Haegerbaeumer A, Höss S, Heininger P, Traunspurger W (2017) Is *Caenorhabditis elegans* representative of freshwater nematode species in toxicity testing? *Environmental Science and Pollution Research* doi: 10.1007/s11356-017-0714-7:1-10

Haegerbaeumer A, Höss S, Heininger P, Traunspurger W (2018) Response of nematode communities to metals and PAHs in freshwater microcosms. *Ecotoxicology and environmental safety* 148:244-253

Haegerbaeumer A, Höss S, Ristau K, Claus E, Heininger P, Traunspurger W (2017) The use of meiofauna in freshwater sediment assessments: Structural and functional responses of meiobenthic communities to metal and organics contamination. *Ecological Indicators* 78:512-525

Kolicka M (2017) New Arctic Gastrotrich — Three Chaetonotus (Chaetonotidae) from Longyearbyen (Spitsbergen, Svalbard Archipelago). *Annales Zoologici* 67:131-180

- Kolicka M, Gadawski P, Dabert M (2017) A new species of freshwater Chaetonotidae (Gastrotricha, Chaetonotida) from Obodska Cave (Montenegro) based on morphological and molecular characters. *European Journal of Taxonomy* 354:1-30
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- Mendoza G, Traunspurger W, Palomo A, Catalan J (2017) Nematode distributions as spatial null models for macroinvertebrate species richness across environmental gradients: A case from mountain lakes. *Ecology and evolution* 7 (9):3016-3028
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- Parry LA, Boggiani PC, Condon DJ, Garwood RJ, Leme JM, McIlroy D, Brasier MD, Trindade R, Campanha GAC, Pacheco LAF (2017) Ichnological evidence for meiofaunal bilaterians from the terminal Ediacaran and earliest Cambrian of Brazil. *Nature Ecology & Evolution* 1 (10):1455-1464
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- Shearn R, Schön I, Martens K, Halse S, Krawiec J, Koenders A (2017) Patterns of genetic divergence in the *Ilyodromus amplicolis* lineage (Crustacea, Ostracoda), with descriptions of three new species. *Zootaxa* 4318 (1):1-46
- Spoljar M, Zhang C, Drazina T, Zhao G, Lajtner J, Radonic G (2017) Development of submerged macrophyte and epiphyton in a flow-through system: Assessment and modelling predictions in interconnected reservoirs. *Ecological Indicators* 75:145-154
- Tsiafouli MA, Bhusal DR, Sgardelis SP (2017) Nematode community indices for microhabitat type and large scale landscape properties. *Ecological Indicators* 73:472-479
- Veras, Tatiane Barbosa, et al. "Interação rio-aquífero e a meiofauna do ambiente hiporreico." *Águas Subterrâneas* 31.1 (2017): 20-35.
- Wiackowski K, Kocerba-Soroka W (2017) Selective predation by a harpacticoid copepod on ciliates in phytotelmata: a laboratory experiment. *Hydrobiologia* 790 (1):13-22
- Forthcoming.*
- As a rule, the list of publications contains printed papers only, not “on-line first”. As an exception, we put here the reference to important review, which will open the paper collection on a topic of great importance:*
- Zeppilli, D., Leduc, D., Fontanier, C. et al. “Characteristics of meiofauna in extreme marine ecosystems: a review” *Marine Biodiversity* (2017).  
<https://doi.org/10.1007/s12526-017-0815-z>