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Sameer M. Padhye  , *Roseline T. Thorat & Avinash I. Vanjare* 



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Metadata to the Cladocera (Crustacea: Branchiopoda) occurrences from Western Maharashtra, India

Sameer M. Padhye¹ , Roseline T. Thorat² & Avinash I. Vanjare² 

¹ Biologia Life Science LLP, Ahmednagar, India; corresponding author: sameer.m.padhye@gmail.com

² Department of Zoology, Ahmednagar College, Ahmednagar, India

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Keywords

Zooplankton, Anomopoda, Ctenopoda, Chydoridae, Daphnia, Moina, Alona

Short description of the dataset/summary

This dataset provides species distribution information on Cladocera, which is an important group of freshwater zooplankton from the Western region of Maharashtra state, India. The collection was carried out at over 100 distinct localities from the year 2009 until 2016. Multiple samples were collected at some of the localities. Most of the samples were collected qualitatively using either a tow net or a hand net having a mesh of 150 micrometers based on the type of habitat (open water vs. littoral zone). The dataset includes species names along with the GIS data and waterbody type (pool, pond, water reservoir or river). A total of 52 species were found from 7 different families. Chydoridae was the most species-rich family with 28 species (Padhye & Dumont 2015, Padhye & Sousa 2020). One new endemic species - *Moina hemanti* Padhye & Dumont, 2014 - was newly described and another species - *Magnospina siamensis* (Sinev & Sanoamuang, 2007) - was reported for the first time from the Indian subcontinent (Padhye & Dumont 2014, Padhye & Sousa 2020). The endemic species was restricted to its type locality. *Daphnia carinata* was only observed in lateritic rock pools, while species like *Latonopsis australis* were also seen in hot water springs (Padhye & Kotov 2010, Padhye & Victor 2015, Kulkarni et al. 2019).

General information

dataset entry ID:	FWM_30
name of the dataset:	
full name of the dataset:	Cladocera (Crustacea: Branchiopoda) occurrences from Western Maharashtra, India
dataset short name:	Cladocera from Maharashtra, India
type of dataset:	species distribution data
data type:	point data/observation data

science keywords according to [GCMD](#):

topic: Biosphere, Terrestrial Hydrosphere

ISO topic category according to [ISO 19115](#):

Biota, Inland Waters

INSPIRE keywords according to [GEMET](#):

Species distribution

own science keywords: Zooplankton, Anomopoda, Ctenopoda, Chydoridae, Daphnia, Moina, Alona

funding:

Part of the work was carried out from the funds provided to SMP by the Council of Scientific and Industrial Research (CSIR), India.

Technical and administrative specifications

data format:

Excel

operating system:

others/specify

others/details: Windows 10

data language:

English

current access level:

restricted access

currently available through [GBIF](#): no

exchange planned: yes

data in data repository: no

Do you plan to publish the data on the Freshwater Biodiversity Data Portal:

yes

update level:

update planned

documentation:

type: manual, internal description

language: English

contact details:

metadata contact person:

first, last name: Sameer Padhye

phone: +919823505359

email: sameer.m.padhye@gmail.com

institution: Biologia Life Science LLP

address: Pasaydan Apartment, near Sapkal Hospital, Sahakar Nagar

postal code, city: 414003 Ahmednagar

province, state: Maharashtra

country: India

web address: <https://sameermpadhye.wixsite.com/website>

technical contact person:

first, last name: Sameer Padhye

phone: +919823505359

email: sameer.m.padhye@gmail.com

scientific contact person:

first, last name: Sameer Padhye

phone: +919823505359

email: sameer.m.padhye@gmail.com

Intellectual property rights and citation

dataset creator (data compiler):

contact name: Sameer M. Padhye
contact email: sameer.m.padhye@gmail.com
contact institution: Biologia Life Science LLP

data contributors to/owners of this dataset:

multiple
number: 3

data contributor/owner 1:

contact name:
contact email: sameer.m.padhye@gmail.com
contact institute: Biologia Life Science LLP
criteria for using this part of the dataset:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

data contributor/owner 2:

contact name:
contact email: roseline.thorat@gmail.com
contact institute: Department of Zoology, Ahmednagar College, Station road, Ahmednagar, Maharashtra
criteria for using this part of the dataset:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

data contributor/owner 3:

contact name:
contact email: avinashisaac7@gmail.com
contact institute: Department of Zoology, Ahmednagar College, Station road, Ahmednagar, Maharashtra
criteria for using this part of the dataset:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but dataset creator/data contributors must be informed prior to publication. Data must be acknowledged and cited correctly.

citation of this dataset:

author(s): Padhye, S.M., Thorat, R. & Vanjare, A.I.

title and journal (name, number, pages):

Cladocera (Crustacea: Branchiopoda) occurrences from Western Maharashtra, India

year: 2020

citation of the metadata:

author(s): Padhye, S.M., Thorat, R.T. & Vanjare, A.I.

title and journal (name, number, pages):

Metadata to the Cladocera (Crustacea: Branchiopoda) occurrences from Western Maharashtra, India. Freshwater Metadata Journal 50: 1-6

year: 2020

doi:

<https://doi.org/10.15504/fmj.2020.50>

dataset related references:

reference 1:

author(s): Padhye, S. & Dumont, H.J.

- title: Moina hemanti n. sp., a new species of the genus Moina s.l. (Branchiopoda: Anomopoda) from Pune, India. Zootaxa 3860(6): 561-570.
- year: 2014
doi: <http://dx.doi.org/10.11646/zootaxa.3860.6.4>
- reference 2:
author(s): Padhye, S. & Dumont, H.J.
title: Species richness of Cladocera (Crustacea: Branchiopoda) in the Western Ghats of Maharashtra and Goa, India with biogeographical comments. Journal of Limnology 74(1): 182-191.
- year: 2015
doi: <https://doi.org/10.4081/jlimnol.2014.1033>
- reference 3:
author(s): Padhye, S.M. & Van Damme, K.
title: Note on Kurzia (Kurzia) latissima (Kurz, 1875) (Branchiopoda: Anomopoda: Chydoridae) from India. Zootaxa 3980(2): 293-297.
- year: 2015
doi: <http://dx.doi.org/10.11646/zootaxa.3980.2.10>
- reference 4:
author(s): Padhye, S.M. & Victor, R.
title: Diversity and distribution of Cladocera (Crustacea: Branchiopoda) in the rock pools of Western Ghats, Maharashtra, India. Annales de Limnologie 51: 315-322.
- year: 2015
doi: <https://doi.org/10.1051/limn/2015029>
- reference 5:
author(s): Padhye, S.M., Kotov, A.A., Dahanukar, N. & Dumont, H.J.
title: Biogeography of the 'water flea' Daphnia (Crustacea: Branchiopoda: Anomopoda) in the Indian subcontinent. Journal of Limnology 75(3): 571-580.
- year: 2016
doi: <https://doi.org/10.4081/jlimnol.2016.1476>
- reference 6:
author(s): Kulkarni, M.R., Padhye, S.M., Rathod, R.B., Shinde, Y.S. & Pai, K.
title: Hydroperiod and inter-pool distance influence meta-community composition of crustaceans in temporary rock-pools in India. Inland Waters 9(3): 320-333.
- year: 2019
doi: <https://doi.org/10.1080/20442041.2018.1548868>
- reference 7:
author(s): Padhye, S.M.
title: Seasonal variation in functional composition and diversity of cladoceran zooplankton of a lotic eutrophic habitat from India. Annales de Limnologie 56, 11.
- year: 2020
doi: <https://doi.org/10.1051/limn/2020011>
- reference 8:
author(s): Sousa, F.D.R. & Padhye, S.M.
title: First record of the dentifera-group of Aloninae (Cladocera, Chydoridae) from tropical India. Zootaxa 4802(2): 391-394.
- year: 2020
doi: <https://doi.org/10.11646/zootaxa.4802.2.12>

General data specifications

regional coverage of the dataset:

continents: Asia
countries: Asia: India
comments: The dataset is from the state of Maharashtra in India.

world climatic regions according to [Köppen](#):

Group A: tropical/megathermal climates
Group B: dry (arid and semiarid) climates

freshwater ecoregions of the world (FEOW) according to [WWF](#):

Asia: Northern Deccan Plateau, Western Ghats
rivers, lakes/ponds, wetlands, general freshwater
2009 - 2016

Site specifications

coordinate system/grid data:

grid data available: no
comments: Some of the sites were distributed over a very small region like a rocky outcrop, where obtaining separate GIS data of pools was not possible. Hence, GIS data is redundant in such instances.

number of sites:

exact number of sites: 100 - 1000

130

Biological data

biological data origin:

from sampling,
Diversity of Cladocera (Crustacea: Branchiopoda) in the Northern Western
Ghats
organism group addressed: zooplankton (Cladocera)

Sample resolution

zooplankton:

taxonomic resolution:

level: genus, species
percentage of species level data: 100

taxonomic coding:

taxalist according to: Chatterjee et al. (2013)
reference(s): Chatterjee, T., Kotov, A.A., Van Damme, K., Chandrasekhar, S.V.A., & Padhye, S. (2013). An annotated checklist of the Cladocera (Crustacea: Branchiopoda) from India. Zootaxa 3667(1): 1-89.

sample specifications:

specification of method(s) used for sampling and sorting:

Qualitative sampling was carried out using either a tow net or a hand net based on the type of habitat (pool vs. river) or exact region of sampling (open water vs. littoral region). The mesh size of the nets was 150 micrometers. The samples were preserved in 5-8% formalin in the field.

Other specifications

GIS layers, shape files related to the dataset:

no data available

availability of photos:

no

availability of maps:

no

quality control procedures:

Were any quality control procedures applied to your dataset?

no

Acknowledgements

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References

- Kulkarni, M.R., Padhye, S.M., Rathod, R.B., Shinde, Y.S. & Pai, K., 2019. Hydroperiod and inter-pool distance influence meta-community composition of crustaceans in temporary rock-pools in India. Inland Waters 9(3): 320-333.
<https://doi.org/10.1080/20442041.2018.1548868>
- Padhye, S. & Dumont, H.J., 2014. *Moina hemanti* n. sp., a new species of the genus *Moina* s.l. (Branchiopoda: Anomopoda) from Pune, India. Zootaxa 3860(6): 561-570. <https://doi.org/10.11646/zootaxa.3860.6.4>
- Padhye, S. & Dumont, H.J., 2015. Species richness of Cladocera (Crustacea: Branchiopoda) in the Western Ghats of Maharashtra and Goa, India with biogeographical comments. Journal of Limnology 74(1): 182-191.
<https://doi.org/10.4081/jlimnol.2014.1033>
- Padhye, S.M., 2020. Seasonal variation in functional composition and diversity of cladoceran zooplankton of a lotic eutrophic habitat from India. Annales de Limnologie 56, 11. <https://doi.org/10.1051/limn/2020011>
- Padhye, S.M. & Van Damme, K., 2015. Note on Kurzia (Kurzia) latissima (Kurz, 1875) (Branchiopoda: Anomopoda: Chydoridae) from India. Zootaxa 3980(2): 293-297. <https://doi.org/10.11646/zootaxa.3980.2.10>
- Padhye, S.M. & Victor, R., 2015. Diversity and distribution of Cladocera (Crustacea: Branchiopoda) in the rock pools of Western Ghats, Maharashtra, India. Annales de Limnologie 51: 315-322. <https://doi.org/10.1051/limn/2015029>
- Padhye, S.M., Kotov, A.A., Dahanukar, N. & Dumont, H.J., 2016. Biogeography of the 'water flea' *Daphnia* (Crustacea: Branchiopoda: Anomopoda) in the Indian subcontinent. Journal of Limnology 75(3): 571-580.
<https://doi.org/10.4081/jlimnol.2016.1476>
- Sousa, F.D.R. & Padhye, S.M., 2020. First record of the dentifera-group of Aloninae (Cladocera, Chydoridae) from tropical India. Zootaxa 4802(2): 391-394. <https://doi.org/10.11646/zootaxa.4802.2.12>