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Keywords

Western Ghats, Rock pools, Crustacea, Anostraca, Notostraca, Spinicaudata, Streptocephalus, Triops

Short description of the dataset/summary

The field data provide species distribution records of a crustacean group called the large branchiopods from some freshwater habitats in the Western Ghats of India. Species occurrence data have been collected from the year 2009 until 2017 at 45 different localities by means of qualitative sampling using a hand net of 150 µm mesh. Data include species name and occurrence records with name, GIS information and waterbody type of the sampled locality. A total of 12 species from 5 different orders which includes three new endemic species and two distinct populations are reported from a total of 90 samples (Rogers and Padhye 2014, 2015; Padhye and Dahanukar, 2015; Padhye and Ghate 2016; Padhye and Kulkarni, 2017; Padhye et al. 2015, 2016, 2018). All the three endemic species have a geographically restricted range with one species, *Leptesterhia gurneyi* known only from its type locality till date. These data, therefore, provide baseline information for future biodiversity conservation planning and management of the habitats as well as the species.

General information

| | |
|---|--|
| dataset entry ID: | FWM_21 |
| name of the dataset: | |
| full name of the dataset: | Occurrence data of large branchiopods in the Northern Western Ghats, India |
| dataset short name: | Branchiopod occurrence data in Western Ghats, Indi |
| type of dataset: | species distribution data |
| data type: | point data/observation data |
| science keywords according to GCMD: | |
| topic: | Terrestrial Hydrosphere |
| ISO topic category according to ISO 19115: | |
| | Biota, Inland Waters |

INSPIRE keywords according to [GEMET](#):

| | |
|-----------------------|--|
| own science keywords: | Species distribution Indian subcontinent, rocky outcrops, Anostraca, Notostraca, Spinicaudata, Laevicaudata, freshwater |
| funding: | The initial part of the field work was carried out from the funds provided by CSIR-India PhD scholarship. |

Technical and administrative specifications

| | |
|--|--------------|
| data format: | Excel |
| operating system: | Win 8/8.1 |
| data language: | English |
| current access level: | web (public) |
| 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 |
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| province, state: | Tamil Nadu |
| country: | India |
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Intellectual property rights and citation**dataset creator (data compiler):**

| | |
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| contact name: | Sameer M. Padhye |
| contact email: | sameer.m.padhye@gmail.com |
| contact institution: | Systematics, Ecology & Conservation Lab, Zoo Outreach Organization |

data contributors to/owners of this dataset:

multiple
number: 2

data contributor/owner 1:

contact name: Sameer M. Padhye
contact email: sameer.m.padhye@gmail.com
contact institute: Systematics, Ecology & Conservation Lab, Zoo Outreach Organization
criteria for using this part of the dataset:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but must be acknowledged and cited correctly.

data contributor/owner 2:

contact name: Mihir R. Kulkarni
contact email: mihircoolkarni@gmail.com
contact institute: Department of Zoology, Savitribai Phule Pune University
criteria for using this part of the dataset:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but must be acknowledged and cited correctly.

citation of this dataset:

author(s): Padhye, S.M. & Kulkarni, M.R.
title and journal (name, number, pages): Large Branchiopoda occurrence data (2009-2017) in the Northern Western Ghats, India.
year: 2019
doi: <https://doi.org/10.15468/vpaw3g>

citation of the metadata:

author(s): Padhye S.M.P. & Kulkarni M.R.K.
title and journal (name, number, pages): Occurrence data of large branchiopods in the Northern Western Ghats, India. Freshwater Metadata Journal 41: 1-6
year: 2019
doi: <https://doi.org/10.15504/fmj.2019.41>

dataset related references:

reference 1:

author(s): Rogers, C. & Padhye, S.M.
title: A new species of Streptocephalus (Crustacea: Anostraca: Streptocephalidae) from the Western Ghats, India, with a key to the Asian species. Zootaxa 3802 (1): 075-084.
year: 2014
doi: <https://doi.org/10.11646/zootaxa.3802.1.6>

reference 2:

author(s): Padhye, S.M., Rabet, N. & Ghate, H.V.
title: First faunal inventory of large branchiopods (Crustacea: Branchiopoda) of Western Maharashtra, India with taxonomical and distributional comments. Zootaxa 3904 (2): 208-222.
year: 2015
doi: <https://doi.org/10.11646/zootaxa.3904.2.2>

reference 3:

author(s): Padhye, S.M. & Dahanukar, N.
title: Distribution and assemblages of large branchiopods (Crustacea: Branchiopoda) of northern Western Ghats, India. Journal of Limnology 74(2): 371-380.

- year: 2015
doi: <https://doi.org/10.4081/jlimnol.2015.1115>
- reference 4:
author(s): Padhye, S.M. & Ghate, H.V.
title: Description of a new species of the genus *Leptestheria* (Crustacea: Branchiopoda: Spinicaudata) from Western Ghats, Maharashtra, India. *Zootaxa* 4127(2): 345-354.
- year: 2016
doi: <https://doi.org/10.11646/zootaxa.4127.2.6>
- reference 5:
author(s): Padhye, S.M., Timms, B. & Ghate, H.V.
title: Large branchiopod (Crustacea: Branchiopoda) egg morphology of Western Ghats, Maharashtra, India. *Zootaxa* 4079 (2): 246-254.
- year: 2016
doi: <https://doi.org/10.11646/zootaxa.4079.2.6>
- reference 6:
author(s): Padhye, S.M. & Kulkarni, M.R.
title: A new Indian record and morphological variation for *Eulimnadia khoratensis* Rogers et al., 2016 (Crustacea: Branchiopoda: Spinicaudata). *Zootaxa* 4268 (1): 147-150.
- year: 2017
doi: <https://doi.org/10.11646/zootaxa.4268.1.10>
- reference 7:
author(s): Padhye, S.M., Rabet, N., Kulkarni, M.R. & Pagni, M.
title: A new species of genus *Eulimnadia* Packard, 1874 (Branchiopoda: Spinicaudata: Limnadiidae) from India with an updated key for some Indian species.
- year: 2018
doi: <https://doi.org/10.11646/zootaxa.4399.3.4>
- reference 8:
author(s): Rogers, D. C., & Padhye, S.M.
title: Review of the large branchiopod crustacean fauna of the Indian Subcontinent (Anostraca, Notostraca, Laevicaudata, Spinicaudata, Cyclestherida). *Journal of Crustacean Biology*, 35(3), 392-406.
- year: 2015
doi: <https://doi.org/10.1163/1937240X-00002327>

General data specifications

regional coverage of the dataset:

spatial extent of the dataset: regional
continents: Asia
countries: Asia: 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

ecosystem type:

covered timeframe:

2009 - 2017

Site specifications

| | |
|-------------------------------------|--------------------------------|
| coordinate system/grid data: | latitude/longitude, format: DD |
| grid data available: | no |
| site coding available: | no |
| number of sites: | <100 |
| exact number of sites: | 90 |

Biological data

| | |
|--------------------------------|---|
| biological data origin: | from sampling, Taxonomy and Systematics of the 'Large Branchiopoda' (Crustacea: Branchiopoda) of the Indian Subcontinent |
| organism group addressed: | other group(s): Anostraca, Notostraca, Spinicaudata, Laevicaudata, Cyclestherida |

Sample resolution**other group(s):****taxonomic resolution:**

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

taxonomic coding:

| | |
|------------------------|--|
| taxalist according to: | Rogers & Padhye (2015) |
| reference(s): | Rogers, D.C. & Padhye, S. (2015). Review of the large branchiopod crustacean fauna of the Indian Subcontinent (Anostraca, Notostraca, Laevicaudata, Spinicaudata, Cyclestherida). <i>Journal of Crustacean Biology</i> , 35(3): 392-406. |

sample specifications:

| | |
|---|--|
| specification of method(s) used for sampling and sorting: | A qualitative representative sampling of each habitat was carried out using a hand net having a mesh of 150 micrometers. Samples were immediately preserved in 8% formalin in the field. |
|---|--|

Other specifications**GIS layers, shape files related to the dataset:**

species distribution

availability of photos: no

availability of maps: no

quality control procedures:

| | |
|--|----|
| Were any quality control procedures applied to your dataset? | no |
|--|----|

References

- Padhye, S.M. & Dahanukar, N., 2015. Distribution and assemblages of large branchiopods (Crustacea: Branchiopoda) of northern Western Ghats, India. *Journal of Limnology* 74(2): 371-380. <https://doi.org/10.4081/jlimnol.2015.1115>
- Padhye, S.M. & Ghate, H.V., 2016. Description of a new species of the genus *Leptestheria* (Crustacea: Branchiopoda: Spinicaudata) from Western Ghats, Maharashtra, India. *Zootaxa* 4127(2): 345-354. <https://doi.org/10.11646/zootaxa.4127.2.6>
- Padhye, S.M. & Kulkarni, M.R., 2017. A new Indian record and morphological variation for *Eulimnadia khoratensis* Rogers et al., 2016 (Crustacea: Branchiopoda: Spinicaudata). *Zootaxa* 4268 (1): 147-150. <https://doi.org/10.11646/zootaxa.4268.1.10>
- Padhye, S.M., Rabet, N. & Ghate, H.V., 2015. First faunal inventory of large branchiopods (Crustacea: Branchiopoda) of Western Maharashtra, India with taxonomical and distributional comments. *Zootaxa* 3904 (2): 208-222. <https://doi.org/10.11646/zootaxa.3904.2.2>
- Padhye, S.M., Rabet, N., Kulkarni, M.R. & Pagni, M., 2018. A new species of genus *Eulimnadia* Packard, 1874 (Branchiopoda: Spinicaudata: Limnadiidae) from India with an updated key for some Indian species. *Zootaxa* 4399 (3): 341-350. <https://doi.org/10.11646/zootaxa.4399.3.4>
- Padhye, S.M., Timms, B. & Ghate, H.V., 2016. Large branchiopod (Crustacea: Branchiopoda) egg morphology of Western Ghats, Maharashtra, India. *Zootaxa* 4079 (2): 246-254. <https://doi.org/10.11646/zootaxa.4079.2.6>
- Rogers, C. & Padhye, S.M., 2014. A new species of *Streptocephalus* (Crustacea: Anostraca: Streptocephalidae) from the Western Ghats, India, with a key to the Asian species. *Zootaxa* 3802 (1): 075-084. <https://doi.org/10.11646/zootaxa.3802.1.6>
- Rogers, D.C., & Padhye, S.M., 2015. Review of the large branchiopod crustacean fauna of the Indian Subcontinent (Anostraca, Notostraca, Laevicaudata, Spinicaudata, Cyclestherida). *Journal of Crustacean Biology* 35(3): 392-406. <https://doi.org/10.1163/1937240X-00002327>