

ICHTHYOFAUNA OF MAHARASHTRA
—DHULIA DISTRICT

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INTRODUCTION

The Ichthyofauna of Maharashtra has been the subject of only a few studies. Annandale (1919) studied the fish fauna of Satara and Poona districts. Frazer (1942), Tonapi & Mulherkar (1963), Tilak & Tiwari (1976) of Poona district, Kalawar & Kelkar (1956) of Kolhapur while Singh & Kamble (1987) surveyed Jalgaon district.

As no attempt had been made in the past to explore the faunal wealth of Dhulia district, three surveys were conducted in 1985-86 for the first time, under the mopping survey programme. This paper is based on fish material collected during these three surveys. Over 428 fish specimens, collected from 41 stations have been studied.

Dhulia district, formerly known as West Khandesh, lies between 20°38' and 22°3' North latitude and 73°47' and 75°11' East of longitude. The district has the ranges of Satpudas in the north and the Sahyadris in the west and south. The Satpuda mountain ranges stretch in a wall-like fashion between the Tapi and Narmada river basins. The Toranmal plateau at an height of 1,155 m is a part of the Satpuda. A large lake of about 2 km area is present near its south west corner. The Sahyadris (Western Ghats) are present on the south western part of the district and their ridges are scattered one behind the other, running from SW to NE in direction.

Two major rivers, the Narmada and Tapi flow through the district. The former is of little use as the river banks are quite steep. Excepting a small area in the north, rest of the

district is drained by the Tapi and its tributaries like Arunavati, Aner, Gomai, Bori, Panjhra, etc.

COLLECTING STATIONS (Fig. 1)

I. *Dhulia taluka*

1. Bori river, Arvi 4.12.85
2. Tank near Deopalithara vill., Laling 3.12.85
3. Panjhra river, Dhulia 2.12.85

II. *Sakri taluka*

4. Borai river, Vajadara 4.1.86
5. Panjhra river, Samoda 21.12.85
6. Kan river, Dahival 19.11.85
7. Kan river, Sakri 23.12.85
8. Jamkhel river, Samoda 21.12.85
9. Stream near Dang Siravade 24.12.85
10. Stream near Pratapapur 24.12.85
11. Shelbari river, Shevali 22.12.85

III. *Navapur taluka*

- | | | |
|-----|-----------------------------|----------|
| 12. | Stream near Navegaon | 28.12.85 |
| 13. | „ „ Gadat | 27.12.85 |
| 14. | „ „ Panbara | 29.12.85 |
| 15. | „ „ Paula | 30.12.85 |
| 16. | „ „ Nagajhiri | 26.12.85 |
| 17. | „ „ Gangapur | 29.12.85 |
| 18. | „ „ Borapada | 26.12.85 |
| 19. | „ „ Vadakhut | 29.12.85 |
| 20. | „ „ Bedakipat | 28.12.85 |
| 21. | Rangavali river, Navapur | 20.11.85 |
| 22. | Sukhi river, Vadada | 16.11.85 |
| 23. | Dapurzira river, Patibedaki | 19.1.86 |
| 24. | Nasu river, Marod | 21.1.86 |

IV. *Sinkhede taluka*

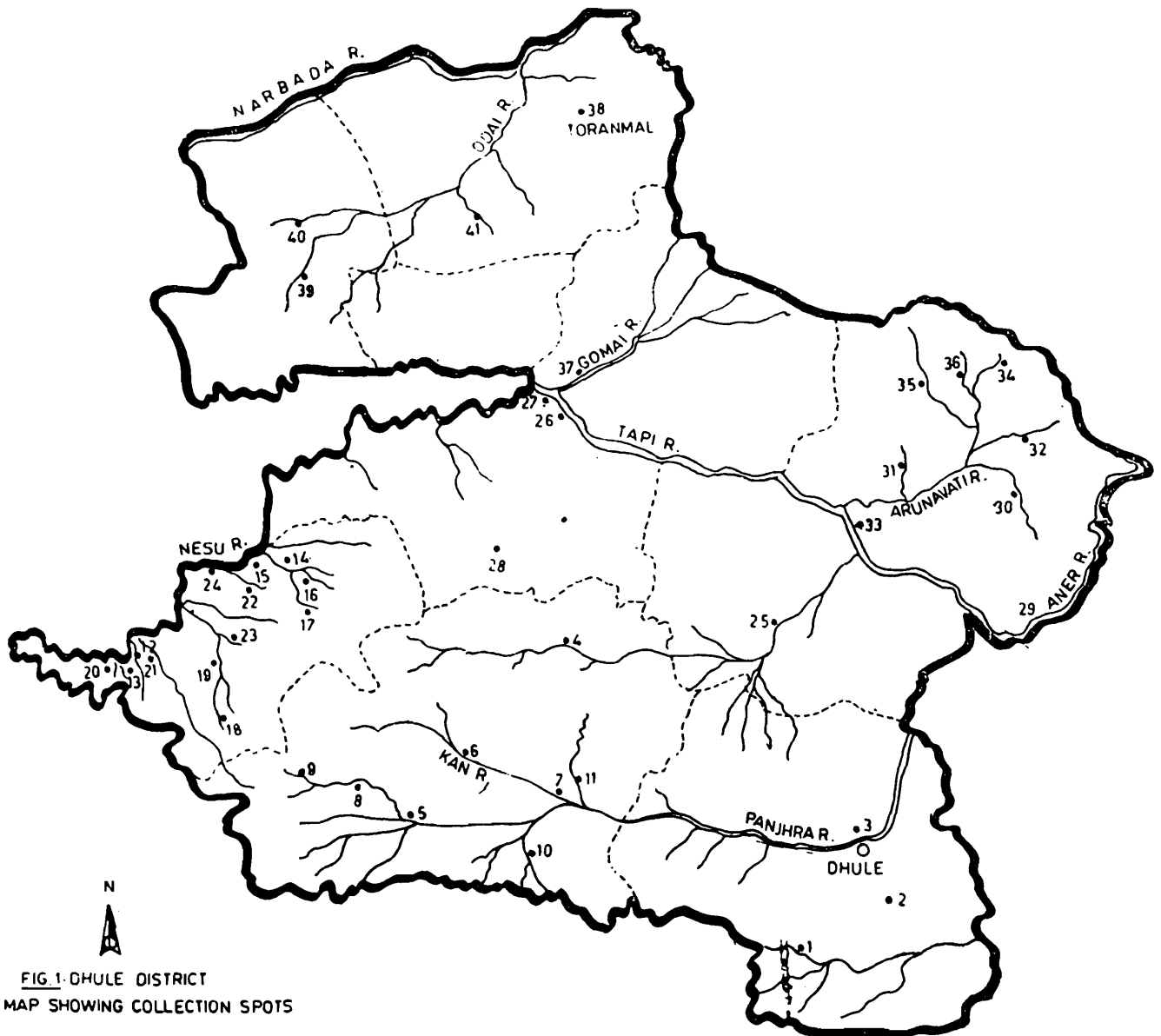
25. Borai river, Chimthane 2.12.85

V. *Nandurbar taluka*

26. Tapi river, Korut 18.11.85

27. " " , Gadartara 1.1.86

28. Ashta tank 4.1.86



VI. *Shirpur taluka*

- 29. Aner river, Khamkhed 30.11.85
- 30. Sherabai river, Sule 6.1.86
- 31. Bijapur nallah, Shirpur 6.1.86
- 32. Stream near Khambale 6.1.86
- 33. Tapi river, Gidhade bridge 27.11.85
- 34. Stream near Sendwa checkpoint (MS-MP border) 29.11.85
- 35. Arunavati river, Umarda 28.11.85
- 36. Stream near Boradi-Malkatar Road 28.1.86

VII. *Shahada taluka*

- 37. Gomai river, Shahada 2.1.86

VIII. *Akranimal taluka*

38. Lake, Toranmal 2.1.86
 39. Stream near Molgi 22.11.85
 40. Barekhat river, Bhagadari 23.11.85
 41. Stream near Dhadgaon 25.1.86

SYSTEMATIC ACCOUNT

Class : Pisces
 Subclass : Teleostomi
 Order : Cypriniformes
 Family : Cyprinidae
 Subfamily : Rasborinae

Genus **Danio** Hamilton1. **Danio aequipinnatus** (Mc Clelland)

1839. *Perilampus aequipinnatus* McClelland, *Asiatic Researches*, 19, p 393 (type loc : Assam)

Material : 42 ex. in total :* 11-4 ; 30-1 ; 31-7 ; 14-1 ; 15-5 ; 17-1 ; 4-6 ; 5-2 ; 8-1 ; 6-2 ; 33-1 ; 39-1 ; 34-2 ; 35-1 ; 40-6 ; 24-1.

Genus **Rasbora** Bleeker2. **Rasbora daniconius** (Hamilton)

1822. *Cyprinus daniconius* Hamilton, *Fish Ganges* p 327, (type loc : rivers of Southern Bengal)

Material : 64 ex in total. 29-4 ; 9-2 ; 11-9 ; 30-5 ; 32-12 ; 18-1 ; 4-8 ; 7-4 ; 8-3 ; 6-3 ; 2-5 ; 40-4 ; 23-4.

Genus **Barilius** Hamilton3. **Barilius bendelisis** (Ham.)

1807. *Cyprinus bendelisis* Hamilton, *Journey Mysore*, 3, p 345, pl. 32 (type loc : rivers of Mysore).

Material : 9 ex in total. 38-3 ; 4-1 ; 7-4 ; 35-1.

Subfamily : CYPRININAE

Genus **Schismatorhynchus** Bleeker

4. **Schismatorhynchus (Nukta) nukta** Sykes

1841. *Cyprinus nukta* Sykes, *Trans. Zool. Soc. London*, 2 p 355 (type loc : Mahloongeh, 18 miles north of Poona from the Indraneeriver).

Material : 2 ex in total. 26-2.

Genus **Puntius** Hamilton5. **Puntius conchoni** (Ham.)

1822. *Cyprinus conchoni* Hamilton. *Fish Ganges*, pp 317, 389. (type loc : North east Bengal and rivers Kosi & Ami).

Material : 17 ex in total. 29-1 ; 13-12 ; 21-4.

- * The first number indicates the Station No., followed by the number of examples collected from that locality.

6. **Puntius ticto** (Hamilton)

1822. *Cyprinus ticto* Hamilton, *Fish Ganges* pp 314, 389, p 18, Fig. 87 (type loc : South-eastern parts of Bengal).

Material : 74 ex in total. 29-1 ; 37-7 ; 30-1 ; 27-15 ; 32-6 ; 15-4 ; 10-2 ; 9-3 ; 4-1 ; 20-12 ; 5-1 ; 8-6 ; 25-3 ; 6-2 ; 22-2 ; 35-1 ; 24-2 ; 36-2.

Genus **Labeo** Cuvier7. **Labeo pangusia** (Hamilton)

1822. *Cyprinus pangusia* Hamilton, *Fish Ganges*, pp 285, 386 (type loc : River Kosi)

Material : 2 ex in total. 26-2.

Genus **Tor** Gray8. **Tor mussullah** (Sykes)

1841. *Barbus mussullah* Syke, *Trans. Zool. Soc. London*, 2, p. 356 (type loc : Sirur on Ghod river near Poona).

Material : 1 ex in total. 26-1.

Genus **Catla** Valenciennes9. **Catla catla** (Hamilton)

1822. *Cyprinus catla* Hamilton, *Fish Ganges* pp 287, 387, pl. 13, Fig 81 (type loc : in the river & tanks of Bengal).

Material : 1 ex in total. 1-1.

Subfamily : GARRINAE

Genus *Garra* Hamilton

10. *Garra mcClellandi* (Jerdon)

1849. *Gonorhynchus mcClelland*. Jerdon, *Mudras J. Lit. Sci.* 15, p. 309
(type loc : Bhavani river at base of Nilgiri hills & also in the
Manantoddy river).

Material : 1 ex. 14-1.

11. *Garra gotyla* (Gray)

1832-33. *Cyprinus gotyla* Gray, *Ill. Indian Zoology*, 2, pl 88, figs 3, 3A
(type loc : Northern India).

Material : 2 ex in total. 33-2.

12. *Garra mullya* (Sykes)

1841. *Chondrostoma mullya* Sykes, *Trans. Zool. Soc. London*, 2, p. 359,
pl. 62, fig 3 (type loc ; Poona waterways).

Material : 2 ex in total. 41-2.

Family : COBITIDAE

Subfamily : NOEMACHEILINAE

Genus *Oreonectes* Gunther

13. *Oreonectes evezardi* (Day)

1878. *Nemacheilus evezardi* Day, *Fish. India* p. 613, pl 153, Fig. 11
(type loc : Poona).

Material : 2 ex in total. 14-1 ; 34-1.

Genus *Noemacheilus* van Hasselt

14. *Noemacheilus (Acanthocobitis) botia* (Hamilton)

1822. *Cobitis botia* Hamilton. *Fish Gangcs*, pp 350, 358, 394, 395
(type loc : rivers of north-eastern parts of Bengal).

Material : 5 ex in total. 29-5.

15. *Noemacheilus denisonii* Day

1867. *Nemacheilus denisonii* Day, *Proc. Zool. Soc. London*, p. 287
(type loc : Nilgiri and Coorg hills)

Material : 40 ex in total. 29-1 ; 12-2 ; 8-1 ; 31-8 ; 27-1 ;
14-1 ; 16-1 ; 17-2 ; 4-1 ; 7-2 ; 8-2 ; 25-1 ; 21-1 ; 39-2 ; 34-3 ;
40-4 ; 23-3 ; 41-4.

Subfamily : COBITINAE

Genus *Lepidocephalus* Bleeker

16. *Lepidocephalus (Lepidocephalichthys) thermalis* (Val.)

1846. *Cobitis thermalis* Valenciennes, *Hist. nat. Poiss.*, 17, p. 78 (type
(type : Ceylon).

Material : 69 ex in total. 1-1 ; 5-3 ; 7-5 ; 11-10 ; 15-12 ;
19-1 ; 37-36 ; 41-1.

17. *Lepidocephalus (Lepidocephalichthys) guntea* (Ham.)

1822. *Cobitis guntea* Hamilton, *Fish Ganges*, pp. 353, 394 (type loc :
Ponds & freshwater rivers of Bengal).

Material : 59 ex in total. 1-1 ; 4-12 ; 5-2 ; 6-4 ; 10-5 ;
16-2 ; 21-7 ; 25-12 ; 32-5 ; 35-9.

Order : SILURIFORMES

Family : BAGRIDAE

Genus *Mystus* Scopoli

18. *Mystus bleekeri* (Day)

1846. *Bagrus keletius keletus* (nec. Valenciennes) *Nat & Geneesh.*
Arch. Ned. India.

Material : 1 ex. 26-1.

Order : ATHERINIFORMES

Family : POECILIDAE

Genus *Gambusia* Poey

19. *Gambusia affinis* (Baird & Girard)

1853. *Heterandia patruelis* Baird & Girard, *Proc. Acad. nat. Sci.*
Philad. 6, p. 390 (type loc : Rio Sabinal, Texas).

Material : 7 ex in total. 3-7.

Family : CYPRINODONTIDAE

Genus *Aplocheilus* Moclelland

20. *Aplocheilus lineatus* (Valenciennes)

1846. *Panchax lineatum* Valenciennes, *Hist. Nat. Poiss.*, 18, p. 381
(type loc : Bombay).

Material : 4 ex in total. 20-4.

Order : CHANNIFORMES

Family : CHANNIDAE

Genus *Channa* Scopoli

21. *Channa orientalis* Schneider

1801. *Channa orientalis* Schneider, *Syst. Ichth. Bloch.*, p. 496, pl. 90, fig. 2.

1822. *Ophiocephalus gachua* Hamilton, *Fish Ganges* pp. 68, 367, pl. 21, fig. 21 (type loc : ponds & ditches of Bengal).

Material : 11 ex in total. 6-1 ; 7-3 ; 8-2 ; 15-1 ; 20-1 ; 23-1 ; 35-1 ; 37-1.

22. *Channa punctatus* (Bloch)

1793. *Ophiocephalus punctatus* Bloch, *Naturges Ausland. Fisches*, 2, p. 139, pl. 358 (type loc : Coromandal coast).

Material : 2 ex in total. 21-2.

Order : PERCIFORMES

Family : CHANDIDAE

Genus *Chanda* Hamilton

23. *Chanda nama* Hamilton

1822. *Chanda nama* Hamilton, *Fish Ganges*, pp. 109, 371, pl. 39, fig. 37 (type loc : Bengal).

Material : 1 ex. 33-1.

Family : GOBIIDAE

Genus *Glossogobius* Gill

24. *Glossogobius giuris* (Hamilton)

1822. *Gobius giuris* Hamilton, *Fish Ganges*, pp. 51, 366, pl. 33, fig. 15 (type loc : ponds & freshwater rivers of Gangetic Provinces).

Material : 4 ex in total. 28-2 ; 33-2.

Order : MASTACEMBELIFORMES

Family : MASTACEMBELIDAE

Genus *Macragnathus* Lacepede

25. *Macragnathus aculeatus* (Bloch)

1795. *Ophidium aculeatum* Bloch, *Naturg. Ausland. Fische*, pl. 159, fig. 2 (type loc : not given).

Material : 1 ex. 33-1.

Genus *Mastacembelus* Scopoli

26. *Mastacembelus guentheri*, Day

1865. *Mastacembelus guentheri*, *Proc. Zool. Soc. London.*, p. 37.

Material : 5 ex in total. 6-1 ; 12-1 ; 20-1 ; 24-1 ; 29-1.

SUMMARY

This paper deals with a systematic account of fishes collected from Dhulia district of Maharashtra. 26 species of fishes are dealt with under 20 genera. All the species treated in the present work were hitherto unknown from this region.

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