MISCELLANEOUS NOTES

The occurrence of *Rana malabarica* observed in and around Kanha is an extension of its range. It was reported earlier from Jagdalpur in Bastar district (Daniel and Selukar 1964) now in Chattisgarh, about 350 km southeast of Kanha. The present report from Kanha in the Satpuras (Maikal Range) definitely strengthens the view that the species has a much wider distribution in the Peninsula. However, around Kanha, it is definitely not a common species, as it appears only during two or three months of the year, unlike in southwest India and also perhaps in Bastar, where it is stated to be not uncommon (Daniel and Selukar 1964).

Essentially a forest dweller, *Rana malabarica* seems to prefer moist-deciduous biotopes to dry deciduous tracts and perhaps this explains why it is absent (?) between the Kasara Ghat (Maharashtra) and Eastern Satpura trend of hills with sal forests. Having been reported from Bastar already, the species may very well occur in the Eastern Ghats.

January 18, 2002

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REFERENCES

DANIEL, J.C. & T.G. SELUKAR (1964): Occurrence of the fungoid frog *Rana malabarica* (Bibr.) at Jagdalpur, Bastar district, M.P. *JBNHS* 60: 743-744. DANIEL, J.C. (1975): Field guide to the amphibians of western India. Part 3. J. Bombay nat. Hist. Soc. 72(2): 516-518.

29. A NOTE ON *MESONOEMACHEILUS HERREI* NALBANT AND BANARESCU (CYPRINIFORMES: BALITORIDAE: NOEMACHEILINAE)

(With one plate)

Mesonoemacheilus herrei described by Nalbant and Banarescu (in Asket Singh et al. 1981) was based on collections made from Puthutotam Estate, Valparai in Anamalai Hills by Herre in 1941, and identified as belonging to the species guentheri. Nalbant and Banarescu distinguished herrei from guentheri (described by Day from Nilgiri Hills), based on several characters, including differences in colour pattern and structure of scales (white spots on body being more roundish and regularly disposed in guentheri vs. white coloration 'V' or 'Y'shaped in herrei; scales with reduced and eccentric focal zone in the former vs. a central and much larger focal zone in the latter).

Menon (1987), in his revisionary study of the Noemacheilids, treated *herrei* as a synonym of *guentheri*. However, Jayaram (1999), following Banarescu and Nalbant (1995), retained it as a separate species. No specimens of herrei were reported subsequent to its original description. Silas (1951), in his paper on the fishes of Anamalai and Nelliampathi Hill ranges, reported collection of Noemacheilus triangularis from the streams draining the Ponnani drainage system in the Nelliamathi Hills. N. herrei, especially the juveniles, superficially resemble both guentheri and triangularis, and the specimens named triangularis by Silas (op. cit.) could possibly be herrei, described subsequently by Nalbant and Banarescu. More recently, six survey teams of the Zoological Survey of India (1996-1998) collected three species of Noemacheilus from the Anamalais, namely denisoni, herrei and monilis.

A total of 27 specimens of *herrei*, ranging in length from 20.5-52 mm SL were collected from two localities and Kolikamuthi at altitudes 890 m and 870 m respectively. *M. herrei* (Plate 1, Fig.1) is reported here, and an attempt is made

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to distinguish the species from *guentheri* (Plate 1, Fig. 2). A key to all the Mesonoemacheilid species, including two species described subsequent to the publication of Jayaram (1999) is also given.

Material studied: 3 exs., 30-34 mm SL, Reg. No. F.4941, Varagalayar, 890 m, 4.ii.1996, Coll. M.B. Raghunathan; 3 exs., 34-48 mm SL, F. 5772, Kolikamuthi, 870 m, 21.ii.1998, Coll. M.S. Ravichandran.

Morphometric characters measured by standard methods are presented in Table 1, mostly in relation to standard length and head length with the mean followed by the range in parentheses. The meristic characters are as follows. D. 3/7-8; P. 1/9-11; V. 1/7; A. 3/5; C. 1/ 16/1. Additional morphometric differences observed in larger specimens are detailed below. Fins and eye being larger in juveniles, it is difficult to segregate them based on these characters alone Table 1.

KEY TO THE MESONOEMACHEILUS SPECIES

1.	Dorsal with 10 branched rays M. pulchellus
	Dorsal with variable number of branched rays
	(8-10)

2.	Dorsal with 7-8 branched rays; body depth less
	than 5.5 in SL
	Dorsal with 8-10, mostly 9, branched rays; body
	very elongate, depth more than 5.5 times in SL
3.	Two or three rows of large yellow spots edged
	with black on the sides 4
<u></u>	Body with reticulate, oblique or vertical bands
4.	Spots rounded; caudal peduncle long, anal not
	reaching caudal base; a band on caudal base
<u> </u>	Spots V- or Y-shaped; caudal peduncle short;
	anal fin reaching caudal base; spot on caudal
	base present
5.	Body with reticulate pattern of dark wavy
	bands and blotches on lighter ground
	M. menoni
<u>ara</u> .w	Body with light oblique and vertical bands on
	darker or lighter ground
6.	Body with 6-7 oblique light bands having black
	edges
	Body with irregular vertical dark bands 8
7.	Distance from vent to anal fin about 4 times in
	the distance from pelvic to anal fin
	M. triangularis triangularis
	Distance from vent to anal fin about 6 times
	in the distance between pelvic and anal fin
8.	Lateral line complete, 8 to 10 brown bands
	I , and the second s

TABLE 1

MORPHOLOGICAL COMPARISON OF MESONOEMACHEILUS GUENTHERI AND M. HERREI

	guentheri (Plate 1, Figs 2 & 4)	herrei (Plate 1, Figs 1 & 3)
a.	Suborbital flap not pronounced, :	Suborbital flap well-developed,
	shorter than broad (Fig. 4).	longer than broad (Fig. 3).
b.	Nostrils situated more than :	Nostrils closer to eyes, distance between nostril
	half eye-diameter distance before eyes.	and eye less than half eye diameter.
c.	Lateral line prominent and complete. :	Lateral line almost incomplete and distinct
		only up to anal origin, after which
		it is discontinuous or absent.
d.	Distance from pelvic to anal :	Distance from pelvic to anal shorter, pelvic
	origin greater, pelvic fin reaching	reaching ³ / ₄ the distance to anal origin.
	¹ / ₂ the distance to anal origin.	the contraction of the second from the second se
e.	Caudal peduncle longer than broad. :	Caudal peduncle as long as broad.
f.	Anal not reaching caudal base.	Anal reaching caudal base.
g.	Caudal base with a dark band :	Caudal base with a well marked roundish blotch.

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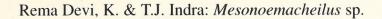
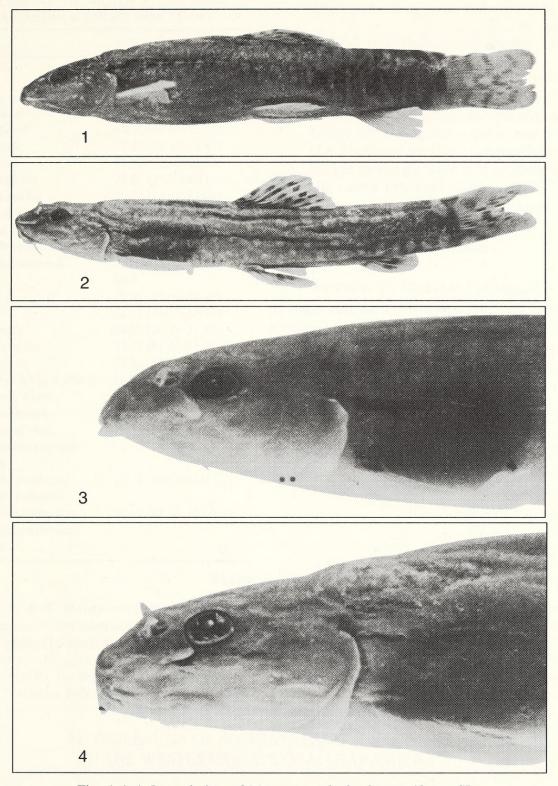


PLATE 1



Figs 1-4: 1. Lateral view of *Mesonoemacheilus herrei*, 48 mm SL,
2. Lateral view of *Mesonoemacheilus guentheri*, 59 mm SL,
3. Enlarged view of head of *herrei* showing long suborbital flap,

4. Enlarged view of head of guentheri showing short suborbital flap



MISCELLANEOUS NOTES

Characters	%SL]
A CONTRACT OF A		· · · · · · · · · · · · · · · · · · ·
Head length	23.81 (22.52-25.37)	9. 1
Body depth	17.34 (16.87-18.59)	i
Predorsal distance	50.25 (47.84-52.91)	
Postdorsal distance	49.26 (44.64-52.08)]
Prepelvic distance	51.81 (50.76-53.47)	
Preanal distance	77.52 (72.46-80.00)	
Length of Caudal fin	25.97 (25.0-29.41)	
Length of Pectoral fin	20.79 (18.35-22.02)	
Length of Pelvic fin	17.73 (16.61-18.65)	
Length of Anal fin	13.89 (13.55-14.39)	
Length of Body cavity	51.02 (49.50-52.35)	
Length of caudal peduncle	13.23 (12.16-14.77)	
	%HL	
Eye diameter	19.01 (16.66-20.28)	
Snout length	35.71 (33.33-36.63)	of Ind
Inter-orbital width	28.65 (26.31-31.15)	Region
Length of Pectoral fin	87.72 (81.30-91.74)	and es
Snout-Eye diameter	53.19 (46.95-59.17)	manus
Inter-Orbital width/Eye diameter	66.22 (58.48-74.07)	Emerit
Body depth/Body width	87.72 (85.47-92.59)	
Caudal fin/Head length	19.27 (16.26-21.69)	Chenn
Distance between Pelvic	19.27 (16.26-21.69)	
to anal fin /Distance between		Januar
anus to anal fin		
Length of caudal peduncle/	101.01 (90.09-111.11)	
Height of caudal peduncle		
Distance between Pectoral to	90.09 (83.33-101.01)	
Ventral fin /Distance between		
Ventral to Anal fin		

TABLE 1 MORPHOMETRIC DETAILS OF *HERREI* FROM INDIRA GANDHI WILDLIFE SANCTUARY

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REFERENCES

BANARESCU, P. & T. NALBANT (1995): A general classification of Nemacheilinae with description of two new genera (Teleostei: Cypriniformes: Cobitidae). *Trav. Mus. nat. Hist. "Grigore Antipa" 35*: 429-496.
JAYARAM, K.C. (1999): The freshwater fishes of the Indian Region. Narendra Publ. House, Delhi: 1-551, pl. 1-18.

MENON, A.G.K. (1987): The Fauna of India and the adjacent countries, Pisces, Vol. iv. Teleostei-Cobitoidea, Part I-Homaloptera. Calcutta x+259 pp.
SINGH, ASKET, NIBEDITA SEN, PETRU BANARESCU & TEODOR T. NALBANT (1981): New Noemacheiline loaches from India (Pisces, Cobitidae). *Trav. Mus. nat. Hist.* "Grigore Antipa" XXIII: 202-212.

30. FISH FAUNA OF SOME STREAMS AND RIVERS IN THE WESTERN GHATS OF MAHARASHTRA

The documentation of fish fauna is essential, as major changes have occurred in the streams and rivers of the Western Ghats, in the Indian peninsula. Major rivers, such as the

Godavari, Krishna and the Bheema, originate in the Maharashtra part of the Western Ghats. This documentation is part of a detailed programme on fish diversity in Western Ghats



Devi, K Rema and Indra, T J. 2002. "A Note on Mesonoemacheilus Herrei Nalbant and Banarescu (Cypriniformes: Balitoridae: Noemacheilinae)." *The journal of the Bombay Natural History Society* 99, 333–337.

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