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RESEARCH ARTICLE

FISH FAUNA OF AWANGSOI LAKE, BISHNUPUR DISTRICT, MANIPUR, INDIA

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ABSTRACT

The present work was conducted to see the fish fauna of Awangsoi Lake during April, 2015 to September, 2015. The study showed the presence of 31 fish species belonging to 21 genera of 13 families and 5 orders. *Puntius* species showed the highest yield, followed by *Channa punctata*, *Anabas testudineus*, *Trichogaster fasciata*, *T. labiosa*, *Amblypharyngodon mola*, *Heteropneustes fossilis* etc.

Key words:

Fish fauna, Awangsoi Lake, Manipur, India.

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INTRODUCTION

Many workers have been done on freshwater fishes of Manipur. Menon reported 63 species of fish under 14 families and 29 genera from the Loktak Lake, the Imphal River and the Barak River of Manipur. Kar (2007) made detailed study of the limnology and ichthyofauna of the waterbodies of North-East (NE) India including diseases in fishes. Kar and Sen (2007) studied on systematic list and distribution of fish biodiversity in Mizoram, Tripura and Barak drainage in North East India. Kar et al. (2008) studied on Panorama of fish biodiversity in certain rivers and wetlands in Manipur. Vishwanath and Singh recorded a new species of the genus Puntius Hamilton from Manpur. Vishwanath and Sarojnalini recorded another new cyprinid fish Garra manipurensis from Manipur. Vishwanath and Kosygin (2000a, 2000b) reported two new cyprinid fishes from Manipur. The authors conducted the present work to see the fish fauna of Awangsoi Lake during April, 2015 to September, 2015.

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MATERIALS AND METHODS

Study area

Awangsoi Lake is located to the south of Keinou village in Bishnupur District, Manipur, about 24 km. from Imphal. This lake is situated between 24°39′48′′N - 24°39′23′′N latitude and 93°47′04′′E - 93°46′90′′ E longitude and at an altitude of 2525 feet above the mean sea level. It has an area of 100 hectors and measures about 2-5 meters in depth. This area enjoys a sub- tropical monsoon. A host of factors including the alternating sub- continental pressure cells of north-west India and the Bay of Bengal, the predominant moist maritime tropical air mass (mT), the roving periodic western disturbances, local mountains and valley winds, the nature and intensity of forest cover, and the waterbodies, particularly the Loktak Lake, influence the pattern of climate in the place.

Study of fish fauna

The fishes were collected from the study area by using dip net, cast net, gill nets, traps and different kinds of fish catching appliances with the help of fisherman.

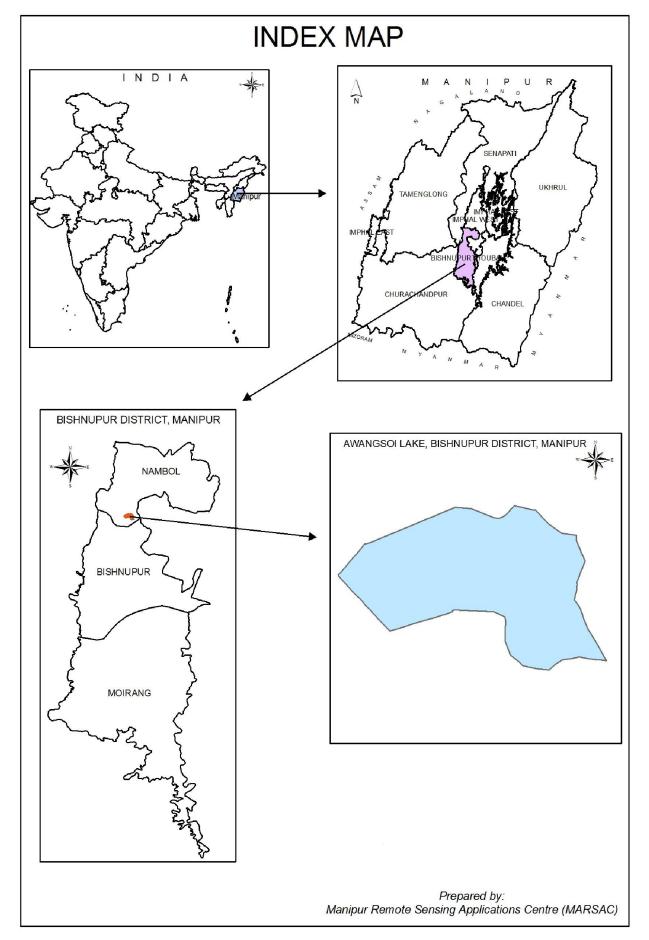


Fig.1. Map showing location of Awangsoi Lake, Manipur

Sl. No.	Name of the fish species	Order	Family	Local name
1.	Labeo rohita (Ham-Buch)	Cypriniformes	Cyprinidae	Rou
2.	Labeo gonius (Ham-Buch)	-do-	-do-	Kuri rou
3.	Cyprinus carpio (Linnaeus)	-do-	-do-	Puklaobi
4.	Cirrhinus mrigala (Ham-Buch)	-do-	-do-	Mrigal
5.	Hypopthalmichthys molitrix (Valenciennes)	-do-	-do-	Silver carp
6.	Ctenopharyngodon idella (Valenciennes)	-do-	-do-	Napi chabi, Grass carp
7.	Catla catla (Hamilton	-do-	-do-	Catla, Bao
8.	Amblypharyngodon mola (Ham-Buch)	-do-	-do-	Muka nga
9.	Esomus danricus (Ham-Buch)	-do-	-do-	Ngasang
10.	Puntius chola (Ham-Buch)	-do-	-do-	Phabounga
11.	Puntius sophore (Ham-Buch)	-do-	-do-	Phabounga
12.	Puntius sarana sarana (Ham-Buch)	-do-	-do-	Ngahou
13.	Puntius manipurensis (Menon, Rema & Vishwanath)	-do-	-do-	Ngakha meingangbi
14.	Puntius ticto (Ham-Buch)	-do-	-do-	Ngakha
15.	Puntius stoliczkanus (Day)	-do-	-do-	Phabounga
16.	Anabas testudineus (Bloch)	Perciformes	Anabantidae	Ukabi
17.	Chanda nama (Ham-Buch)	-do-	Chandidae	Ngamhai
18.	Trichogaster fasciata (Schneider)	-do-	Belontidae	Ngapemma
19.	T. labiosa (Schneider)	-do-	-do-	Ngapemma
20.	Glossogobius giuris (Ham-Buch)	-do-	Gobiidae	Nainongamu
21.	Oreochromis mossambica (Peters)	-do-	Cichlidae	Tunghanbi
22.	Channa punctata (Bloch)	-do-	Channidae	Ngamu bogra
23.	C. striata (Bloch)	-do-	-do-	Porom
24.	C. orientalis (Bloch & Schneider)	-do-	-do-	Meitei ngamu
25.	Clarias batrachus (Linnaeus)	Siluriformes	Claridae	Ngakra
26.	Heteropneustes fossilis (Bloch)	-do-	Heteropneutidae	Ngachik
27.	Ompok bimaculatus (Bloch)	-do-	Siluridae	Ngaten
28.	Mystus bleekeri (Day)	-do-	Bagridae	Ngasep
29.	Mystus cavasius (Ham-Buch)	-do-	-do-	Ngasep
30.	Monopterus albus (Zuiew)	Synbranchiformes	Synbranchidae	Ngaproom
31.	Notopterus notopterus (Pallas)	Osteoglossiformes	Notopteridae	Ngapai

Table 1. List of the fishes found in Awangsoi Lake, Manipur

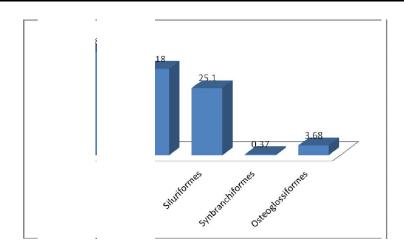


Fig. 2. Graphical representation of percentage of the occurrence of five different orders of fish found in Awangsoi Lake

After collection fishes were fixed in 10 % formalin solution and then brought to the laboratory for further study. Fishes were identified following, Jayaram (2010) and Vishwanath (2002).

RESULTS AND DISCUSSION

The present study showed the presence of 31 fish species belonging to 21 genera of 13 families and 5 orders. Of them Chanda nama, Esomus denricus, Puntius sarana sarana, *Notopterus* notopterus, Lepidocephalus Lepidocephalus berdmorei, Mystes bleekeri, Mystes cavasius, Channa orientalis and Clarias batrachus have been collected in very less numbers. Puntius species generally showed the highest yield, followed by Channa punctata, Anabas Trichogaster testudineus, fasciata, Т. labiosa, Amblypharyngodon mola, Heteropneustes fossilis etc.

In the present study fishes of the family Cyprinidae was dominant. Table I shows a list of the fishes found in Awangsoi Lake, Manipur and fig I shows the graphical representation of percentage of the occurrence of five different orders of fish found in Awangsoi lake. The main sources of the fishes of Awangsoi Lake are Loktak Lake and Yangoi macha river. Most of the fish species are available throughout the year but fishes were mainly caught in winter and dry seasons due to higher water level of the lake in rainy season. There was no record of new fish species in our present investigation.

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