

Report of Molluscs from Chimdi lake (Birju Tal), Sunsari district, Eastern Nepal.

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Abstract

Molluscs from Chimdi lake have been reported. Ten species of Gastropod representing seven families and four species of bivalves representing two families are described here.

Keywords: Molluscs, Chimdi lake, Sunsari

Introduction

Chimdi lake lies in 26°29'23.5" N and 87°10'51.3" E at an elevation of 70m. It falls in Chimdi VDC of Sunsari district, 12 kilometer far from Biratnagar. Up to five years ago, this natural lake was totally occupied by the local people and had made farmland. By the effort of local authorities and non-government organization, now it is being brought rehabilitation stage. The area is expanded up to 101.6-hectare land. Since last three years, its 17.85 hector land of eastside has filled with water and is rich in macrophytes that serve as a good habitat for the molluscs.

An attempt has been made to document molluscan species from Chimdi lake area. Reports of molluscs have been made from Nepal by Subba and Ghosh (2000, 2001) and Subba (2003).

Materials and Methods

The work was started from November 2003. Molluscs were collected eight months. The collected samples were identified with the help of standard books (Subba Rao 1989, Preston 1915). Some unidentified species were sent to the Zoological survey of India

(ZSI), Calcutta for identification.

Results and Discussion

Notable contributions have been made by Subba and Ghosh (2000,2001), Subba (2003) on the molluscan diversity in Nepal. In the present study, 14 species of molluscs belonging to nine families were collected and identified. Edible molluscs are considered parallel to the weed fishes here. *Bellamya*, *Brotia*, *Pila*, *Lamellidens* and *Parreysia* are some of the edible molluscan genera of this area. Sustainable utilization of molluscs is also essential because molluscs serve as food for many waterfowls inhabiting the lake area. Two species *P. flavidens deltae*(Benson)and *P. (Radiatula) lima*(Simpson) of this report are new to Nepal.

The list of Molluscs so far recorded from Chimdi lake is as follows:-

Phylum - Mollusca

Class - Gastropoda

Order - Mesogastropoda (Pectinibranchia)

(1) Family - Viviparidae

(i) *Bellamya bengalensis f. typica* (Lamarck, 1822)

(2) Family - Pilidae

- (ii) *Pila globosa* (Swainson, 1822)
- (3) Family - Thiaridae
 - (iii) *Thiara* (*Tarebia*) *granifera* (Lamarck, 1822)
 - (iv) *Brotia costula* (Rafinesque, 1833)
Order - Basommatophora
- (4) Family - Lymnaeidae
 - (v) *Lymnaea* (*Pseudosuccinea*) *acuminata* f. *typica* (Lamarck)
 - (vi) *Lymnaea luteola* f. *typical* (Lamarck, 1822)
- (5) Family - Planorbidae
 - (vii) *Indoplanorbis exutus* (Deshayes, 1834)
 - (viii) *Gyraulus convexiusculus* (Hutton, 1849)
Order - Stylommatophora
- (6) Family - Ariophantidae
 - (ix) *Khasiella pansa*
Order - Pulmonata
- (7) Family - Stenogyridae
 - (x) *Achatina fulica*
Class - Bivalvia (Pelecypoda)
Order - Eulamellibranchiata
- (8) Family - Unionidae
 - (xi) *Lamellidens marginalis* (Lamarck, 1819)
- (9) Family - Amblemidae
 - (xii) *Parreysia corrugata*
 - (xiii) *Parreysia flavidens deltae* (Benson)
 - (xiv) *Parreysia* (*Radiatula*) *lima* (simpson)

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