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Icothofauna: - A key to identify the different genera of fishes of River Ganga at Haridwar

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Abstract

The river Ganga is blessed with a number of lotic and lentic water bodies. The microclimate provided by the different zones of the river attract different types of fish species depending on their habitat, which in turn depend largely on factors like variability of nourishment, dissolved oxygen, light, flow etc. in different zones of the river. The organization of fish assemblage reflects both biotic and abiotic sets of features occurring in a particular moment which influence the distribution, abundance, and species interactions, various activities such as irrigation, power generation, Fish River etc provide employment to a sizeable section of the society. Fish men are helpful in collection. An extensive survey was conducted of fishes.

Keywords: abundance activities, river Ganga

Introduction

Fish a vital source of human food particularly in terms of high quality proteins being a cheap source of animal protein, there is more emphasis on the culture of fishes in recent times. Fish productivity is adversely affected by parasite infection and diseases fish harbour a variety of parasites belonging to diverse animal group. Normally the fish are herbivores, carnivores or omnivores feeding predominantly on plant food, animal food or a combination of both plant and animal food respectively fishes commonly depends upon the Plankton I.E. phyto plankton and zooplankton. And therefore, called plankton feeders fishes are important components of ecosystem from ecological, medicinal, nutritional and economical point of view. These fishes are parasitized by helminthes parasites, which reduce food value, as they provide highly nutritious food. They infect man and also invade domestic animals and wildlife.

Material and Method

The fishes were collected alive almost every alternate day from Ganga River and brought to the laboratory in the polythene bags containing water of the same locality. Small fishes were killed on plthing and somewhat large specimens by blow on the top of cranium. The external body surface was thoroughly examined for occurrence of parasites, used 70% alcohol or presentation by formalin techniques.

Identification was done by standard methods or day jhingan and candy. The distribution status was studied by comparing data of observation with that of district fish development agency as far as possible the local fishesman were also interviewed to get data.

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Table 1.1: Systematic list of fishes found in the river Ganga

Phylum	Vertebrata
Sub-phylum	Craniata
Super-class	Gnathostomata
Series	Piscean
Class	Telcostomi
Sub-class	Actinopterygii
Order	Cypriniformes
Sub-order	Cyprinoidei
Family	Cyprinidae
Sub-family	Raborinae
Genus	<i>Barilus Hamilton</i>

Present scientific name	Name according to Day	Name according to Hamilton	Local name
Barilius bendelensis (Ham.)	Barilius bendelensis	Cyprimus benelisis	Chal
Raimas bala (Ham.)			
(Endangered)	Barilius bola	Cyprimus bola	Bhola
Barilius vagra (Ham.)	Barilius vagra	Cyprinus vagra	Chal
-	Barilius modestus		
Barilius barna		-	-
	Genus	Danio Hamilton	
Danio (Danio) devario (Hum.)	Damino devario	Cyprinius Devario	Patukari
	Sub-family	: Cyprinae	
	Genus	: Chaganio smith	
Chagunio chagunio (Ham)	Barbus chagunio	Cyprinius chagunio	Gelhari
	Genus	Labeo Cuvier	
Labeo bogola (Ham.)	L. bagota	: C. bogola	Bata
Labeo gonius (Ham.)	L. gonius	: C. gonius	Rohu
Labeo rohita (Ham.)	L. rohita	: C. rohita	Kalbasu
Labeo calbasu (Ham.)	L. calbasu	: C. calbasu	Aragi
Labeo dyocheilus (Mc. Chell)	L. dyocheilus	L. dyocheilus	
Labeo angra (Ham.)	L. angra	L. angra	Raiya
Eromus danricus (Ham.)			
Hypothalmichthys molitrix			
	Genus	: Crossocheilus Vanhasselt	
Crossocheilus latius latius (Ham.)	Cirrhinus latia	: Cirrhinus latius latius	Pet phorni
-	-	C. gohan	
-	-	C. sada	
-	Cirrhinus marigala	C. mrigola	Nain
	Genus	: Gara Hamilton	
Garra gotyla gotyla (Gray)	Discognathus lamata	: C. lamata	Gunthale
	Genus	: Tor gray	
Tor putitora (Endangered)	Barbus tor	C. tor	Mahaseer
Tor tor (Ham.)			
(Endangered)	Barbus tor	C. hexastius	Mahaseer
Puntius hexastiscus	Barbus hexastiscus	Cyprimus sophore (Puntia)	Khront
Puntius sophore (Ham.)	Barbus sophore	-	Shidhari
Puntius saran (Ham.)	B. saran	C.sarna	Darahi
Puntius ticto	B.ticto	C.ticto	Sidhari
Puntius chola (Ham.)	B. Chola	C. chola	Shidhari
Puntius conchoms (Ham.)			
	Sub-family	: Schyzothoracinae heckle	
	Genus	: Schizothorax heckle	
Schyzothorax plagiostomus	Oreinus plagiostomus		
Schyzothorax sinatus	Oreinus sinatus		
	Family	: Colitidae	
	Genus	: Botia gray	

Botia Dario (Ham.) Botia iohachata chandhuri Lepdocephalus guntea (Ham.)	Botia dario B. iohachata chandhuri L. Guntea	Cabitus geto Cabitus iohachata chandhuri L. guntea	Baghaua Hakati
Rita rita (Ham.)	Genus Rita bachanai	Rita bleeker Pimelodus rita	Hunna rita
Bagarius bagarius	Family Genus Bagarius yarrelli	: Sisoridae : Bagarius bleeker Pimelodus sagarius Gnoch	
Chupisoma garua (Ham.)	Family Genus Pseudeutropius garva	: Schilbeidae : Chupisoma swainson Gilurus garua	karahi
Xenetadon cancila (Ham.)	Order Sub-order Family Genus Belon canila	: Beloiiformes : Scomerbosocoidei : Belonidae : Xenetadon regan Esor cancila	Kuwa
Closia fasciatuas (Black & Schn.)	Order Sub-order Family Genus	: Perciformes : Anabantoidei : Anabanlidae : Colisa cuver etvalenciennes	
-	Trichogaster fasciatus	Trichopodius colisa	Khosti
-	-	-	T. bejeus
-	-	-	T. corta
Mastacembelus armatus (lacepede)	Order Family Genus	: Mastacembeliformes : Mastacembelidas : Mastacembelus schopoli	
Mastacembelus punctatus (Ham.)	Mastacembelus armatus	Macrognathus armatus	Bam
	Mastacembelus punctatus	Macrognathus punctatus	Malga
Mustus seenghala (Sykes)	Family	Bragridae	
Mystus bleekeri (Day)	-	-	Tengar
Mystus cavasius (Ham.)	-	-	Tengar
Mustus tengara (Ham.)	-	-	Tengar
Mystus vittatus (Bl.)	-	-	Tengar
Mystus aor (Ham.)	-	-	Tengar
Nandus nandus (Ham.)	Family Nandus marmoratus	:Nadidae Gobius nandus	Dhebari

Results and discussion

Results of the studies on incidence of meticulous survey of the available literature it has been established that a total 28 species of fishes have been reported by various workers. The referred studies carried out in Ganga river haridwar. Now survey reported 44 species of fish were collected to river Ganga. Mainly are barilius, bendelensis (ham) ramas bola barilius vagra barna, danio labeo, tor putitora, tor, eromus, rita rita, botia, schyzothorax. Puntius, bagarius, clupisoma garua (ham) xenetadon, mastacembelus . mystus, and nandus nandus. A deterious led checklist of fishes recorded during the lists stady are provide shown in tables as.

Confusions

The present study reveals that the stretch under the study comprises of a number of meson habitats these presence of meso habitats also provide different feed to the fishes liked

attached algae, organic debri etc. and its maintains the aquatic biodiversity.

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