

Full Length Research Paper

Successful artificial reproduction of the African carp: *Labeo parvus* Boulenger, 1902 (Pisces: Cyprinidae)

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The effectiveness of hormonal treatments to induce gamete emission in *Labeo parvus* was investigated in two spawning seasons (2007 and 2008). Brood fishes measuring 15 to 30 cm were gill netted in the Ouémé River (Benin) during their migration to their spawning habitat and then held in captivity (ponds). Captive fish (N = 30 males and N = 37 females) were treated with GnRHa combined with a dopamine antagonist during their natural spawning season from July through October. Ovulation was stimulated in four experimental groups of females by injecting Dagin (0.2 to 0.3 mlkg⁻¹ body weight) and Ovaprim (0.5 to 0.6 mlkg⁻¹ body weight). No female ovulated either in the groups receiving normal (as recommended by the manufacturers) dose injections of Dagin and Ovaprim (0.2 and 0.5 mlkg⁻¹ body weight respectively) or in the group treated with a Dagin injection of 0.3 mlkg⁻¹ body weight. Successful ovulation was only obtained with Ovaprim in the group treated with 0.6 mlkg⁻¹ body weight. Latency times ranged from 10 to 14 h after hormone injection. *L. parvus* eggs were nonadhesive and transparent at ovulation. Fertilisation rates ranged from 74.0 to 97.7%. Hatching occurred after 10 to 14 h of incubation at 27 to 30°C and lasted 5 to 7 h. Hatching rates ranged from 70.0 to 83.3%. Larvae were 3.0 ± 0.4 mm long (total length) at hatching. In the two reproductive seasons, fertilisation rates and hatching were not significantly different (P > 0.05). The water temperature was shown to significantly affect spawning latency and incubation time. Our study demonstrated that captive *L. parvus* could be successfully induced to produce sperm and ova using injection of a synthetic gonadotropin-releasing hormone coupled with a dopamine antagonist (Ovaprim). Their ova could also be artificially fertilised in an experimental hatchery at water temperatures ranging from 27 to 30°C. The results obtained indicate that Ovaprim is the most effective agent for inducing artificial reproduction in *L. parvus*.

Key words: GnRH analogues, Induced spawning, *Labeo parvus*.

INTRODUCTION

Fishing pressure continues to increase in the inland waters of Benin even though studies and reports have revealed over-exploitation of some of the most important species (Lalèyè et al., 2003, 2007; Montchowui et al., 2008). Many fish species are in decline and some have

become endangered due to a combination of over-exploitation, aquatic pollution and habitat modification due to river-valley projects, excessive water abstraction for irrigation and siltation due to clearing.

Labeo parvus is one of the most exploited fish species and one of the more popular food fish in Benin (Montchowui, 2009). The available data on this species show that it is particularly vulnerable due to over fishing and environmental condition changes that influence its

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Revision Of African Species Of Labeo Pisces Cyprinidae

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Revision Of African Species Of Labeo Pisces Cyprinidae:

A Revision of African Species of Labeo (Pisces) G. McG. Reid, 1985 Cyprinid Fishes Ian J. Winfield, Joe S. Nelson, 2012-12-06 Among the fishes a remarkably wide range of biological adaptations to diverse habitats has evolved. As well as living in the conventional habitats of lakes, ponds, rivers, rock pools, and the open sea, fish have solved the problems of life in deserts, in the deep sea, in the cold Antarctic, and in warm waters of high alkalinity or of low oxygen. Along with these adaptations we find the most impressive specializations of morphology, physiology, and behaviour. For example, we can marvel at the high speed swimming of the marlins, sailfish, and warm blooded tunas; air breathing in catfish and lungfish; parental care in the mouth brooding cichlids; and viviparity in many sharks and toothcarps. Moreover, fish are of considerable importance to the survival of the human species in the form of nutritious and delicious food of numerous kinds. Rational exploitation and management of our global stocks of fishes must rely upon a detailed and precise insight of their biology. The Chapman and Hall Fish and Fisheries Series aims to present timely volumes reviewing important aspects of fish biology. Most volumes will be of interest to research workers in biology, zoology, ecology, and physiology, but an additional aim is for the books to be accessible to a wide spectrum of non specialist readers ranging from undergraduates and postgraduates to those with an interest in industrial and commercial aspects of fish and fisheries.

Fishes of the Cambodian Mekong Walter J. Rainboth, Food and Agriculture Organization of the United Nations, 1996-01-01 This field guide covers the major resource groups likely to be encountered in the fisheries of the Cambodian Mekong. These groups include sharks, batoid fishes, and bony fishes. The introduction outlines the geographical, environmental, and ecological factors influencing fisheries, and the basic components of the fisheries of the Cambodian Mekong. As an aid to identification to higher taxonomic levels, a pictorial index to families and an illustrated guide to orders and families are included. Each species account provides scientific nomenclature, FAO names in English, local names, sizes, notes on fisheries, habitat, and biology, and one or more illustrations. The guide is fully indexed, and a list of related literature is appended. Finally, 27 colour plates are presented.

Ecological Studies in Tropical Fish Communities R. H. Lowe-McConnell, 1987-02-27 The result of compiling widely scattered research on fish in tropical rivers, lakes, and seas. A comprehensive overview of the ecology of fish communities in freshwater as well as marine environments.

Fresh and brackish water fishes of Lower Guinea, West-Central Africa Melanie L. J. Stiassny, Guy G. Teugels, Carl D. Hopkins, 2007 *Faune des poissons d'eaux douces et saumâtres de l'Afrique de l'Ouest* Didier Paugy, 2003 This new reexamined and corrected fauna displays an up to date account of knowledge on the systematics of the fresh and brackish water fishes of West Africa. Its aim is to help ichthyologists with the identification of the species they collect. It is made practical and didactic by paying special attention to iconography and, as far as possible, by giving priority to the simplest and easiest observable criteria. West Africa from the Senegal River basin in the North West to the Chad basin in the North East and the Cross River in the South includes the majority of the Sahelo-Sudan basins, except

for the Nile and the Western Guinea area covering the Atlantic Coastal Basins from Guinea to Western Cote d'Ivoire. Specialists of each group or family were called to write the chapters. To facilitate the access of this fauna an English translation is provided for all text. Summary tables comparing morphological characters and measures for the different species complement the identification keys. Distribution maps are provided for freshwater species. At present 64 families are described including 192 genera and 584 valid species. A reduced paper version is presented in two volumes; the integral CD-ROM version is inserted on the back cover of the second volume.

Annals of the Cape Provincial Museums, 1994 **The Cichlid Diversity of Lake Malawi/Nyasa/Niassa** Jos Snoeks, 2004 **Biodiversity Dynamics and Conservation** C. Lévêque, 1997-05-13. This is a comprehensive book on the biodiversity of one of the most diverse ecosystems known: tropical freshwater.

The J.L.B. Smith Institute of Ichthyology, 1997

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Table of Contents Revision Of African Species Of Labeo Pisces Cyprinidae

1. Understanding the eBook Revision Of African Species Of Labeo Pisces Cyprinidae
 - The Rise of Digital Reading Revision Of African Species Of Labeo Pisces Cyprinidae
 - Advantages of eBooks Over Traditional Books
2. Identifying Revision Of African Species Of Labeo Pisces Cyprinidae
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Revision Of African Species Of Labeo Pisces Cyprinidae
 - User-Friendly Interface

4. Exploring eBook Recommendations from Revision Of African Species Of Labeo Pisces Cyprinidae
 - Personalized Recommendations
 - Revision Of African Species Of Labeo Pisces Cyprinidae User Reviews and Ratings
 - Revision Of African Species Of Labeo Pisces Cyprinidae and Bestseller Lists
5. Accessing Revision Of African Species Of Labeo Pisces Cyprinidae Free and Paid eBooks
 - Revision Of African Species Of Labeo Pisces Cyprinidae Public Domain eBooks
 - Revision Of African Species Of Labeo Pisces Cyprinidae eBook Subscription Services
 - Revision Of African Species Of Labeo Pisces Cyprinidae Budget-Friendly Options
6. Navigating Revision Of African Species Of Labeo Pisces Cyprinidae eBook Formats
 - ePub, PDF, MOBI, and More
 - Revision Of African Species Of Labeo Pisces Cyprinidae Compatibility with Devices
 - Revision Of African Species Of Labeo Pisces Cyprinidae Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Revision Of African Species Of Labeo Pisces Cyprinidae
 - Highlighting and Note-Taking Revision Of African Species Of Labeo Pisces Cyprinidae
 - Interactive Elements Revision Of African Species Of Labeo Pisces Cyprinidae
8. Staying Engaged with Revision Of African Species Of Labeo Pisces Cyprinidae
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Revision Of African Species Of Labeo Pisces Cyprinidae
9. Balancing eBooks and Physical Books Revision Of African Species Of Labeo Pisces Cyprinidae
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Revision Of African Species Of Labeo Pisces Cyprinidae
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Revision Of African Species Of Labeo Pisces Cyprinidae
 - Setting Reading Goals Revision Of African Species Of Labeo Pisces Cyprinidae
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Revision Of African Species Of Labeo Pisces Cyprinidae
 - Fact-Checking eBook Content of Revision Of African Species Of Labeo Pisces Cyprinidae
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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