



Red List of Bangladesh

Volume 5: Freshwater Fishes



INTERNATIONAL UNION FOR CONSERVATION OF NATURE



Red List of Bangladesh

Volume 5: Freshwater Fishes

Lead Assessor

Mohammad Shahadat Ali

Technical Reviewers

Md. Abdur Rob Mollah

Md. Sagir Ahmed

Chief Technical Reviewer

Mohammad Ali Reza Khan

Technical Assistants

Selina Sultana

Mohammed Noman

GIS Analyst

Sanjoy Roy

Technical Coordinator

Mohammad Shahad Mahabub Chowdhury

The designation of geographical entities in this book and the presentation of the material, do not imply the expression of any opinion whatsoever on the part of IUCN, International Union for Conservation of Nature concerning the legal status of any country, territory, administration, or concerning the delimitation of its frontiers or boundaries. The biodiversity database and views expressed in this publication are not necessarily reflect those of IUCN, Bangladesh Forest Department and The World Bank.

This publication has been made possible because of the funding received from The World Bank through Bangladesh Forest Department to implement the subproject entitled 'Updating Species Red List of Bangladesh' under the 'Strengthening Regional Cooperation for Wildlife Protection (SRCWP)' Project.



Published by: IUCN Bangladesh Country Office



Copyright: © 2015 Bangladesh Forest Department and IUCN, International Union for Conservation of Nature and Natural Resources

Reproduction of this publication for educational or other non-commercial purposes is authorized without prior written permission from the copyright holders, provided the source is fully acknowledged.

Reproduction of this publication for resale or other commercial purposes is prohibited without prior written permission of the copyright holders.

Citation: *Of this volume*
IUCN Bangladesh. 2015. *Red List of Bangladesh Volume 5: Freshwater Fishes*. IUCN, International Union for Conservation of Nature, Bangladesh Country Office, Dhaka, Bangladesh, pp xvi+360

Of individual species profile
[Last name of the assessor (s), initials]. 2015. [Species' scientific name]. In: IUCN Bangladesh. *Red List of Bangladesh Volume 5: Freshwater Fishes*. IUCN, International Union for Conservation of Nature, Bangladesh Country Office, Dhaka, Bangladesh. p. [Page number].

ISBN: 978-984-34-0738-2

Publication

Assistant: Sheikh Asaduzzaman

Design and

Printed by: Bangla Communications Ltd.

Cover Photo: Front Cover: (top left) *Chitala chitala* © Balam Mahalder, (top right) *Botia dario* © Mostafa A R Hossain, (bottom right) *Rita rita* © Balam Mahalder, (bottom left) *Trichogaster fasciata* © Md. Sagir Ahmed
Back Cover : (top) *Puntius chola* © IUCN/ Mohammed Noman, (bottom) *Tetraodon cutcutia* © Md. Sagir Ahmed

Available from: IUCN, International Union for Conservation of Nature
Bangladesh Country Office
House 16, Road 2/3, Banani
Dhaka 1213, Bangladesh
www.iucn.org/bangladesh
www.iucnredlistbd.org

LIST OF ABBREVIATIONS

AOO	Area of Occupancy
BoB	Bay of Bengal
BRAC	Bangladesh Rural Advancement Committee
BWDB	Bangladesh Water Development Board
CARITAS	Congregations Around Richmond Involved to Assure Shelter
CBD	Convention on Biological Diversity
CBFM	Community Based Fisheries Management
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
CKMWS	Char Kukri Mukri Wildlife Sanctuary
CNRS	Center for Natural Resource Studies
cm	Centimeter
CMS	Convention on the Conservation of Migratory Species of Wild Animals
CPUE	Catch per unit effort
CR	Critically Endangered
DD	Data Deficient
DoF	Department of Fisheries
ECR	Environment Conservation Rules
EEZ	Exclusive Economic Zone
EN	Endangered
EOO	Extent of Occurrence
ESCAP	Economic and Social Commission for Asia and the Pacific
EW	Extinct in the Wild
EX	Extinct
FA	Forest Act
FAP	Flood Action Plan
GBM	Ganges-Brahmaputra-Meghna
GDP	Gross Domestic Product
GIS	Geographical Information System
GO	Governmental Organization
GoB	Government of Bangladesh
H	High
ha	Hectare
HNP	Himchhari National Park
HYV	High yielding varieties
INGO	International Non-governmental Organization

IUCN	International Union for Conservation of Nature
kg	Kilogram
km	Kilometer
km ²	Square Kilometer
L	Low
LC	Least Concern
Litt	Literature
M	Moderate
m	Metre
m ³	Cubic metre
MAF	Million acre-feet
mm	Millimetre
MoEF	Ministry of Environment and Forests
MoFA	Ministry of Foreign Affairs
MSY	Maximum Sustainable Yield
mt	Metric ton
mya	Million years ago
NA	Not Applicable
NBSAP	National Biodiversity Strategic and Action Plan
NCS	National Conservation Strategy
NC-USR	National Committee for Updating Species Red List of Bangladesh
NE	Not Evaluated
NGOs	Non-governmental Organizations
NT	Near Threatened
NWMP	National Water Management Plan
PAs	Protected Areas
PDR	People's Democratic Republic
Pers. Comm.	Personal Communication
PL	Post Larval
ppt	Parts per thousand
PROSHIKA	Proshikkhan Shikkha Karmo
RAG	Red List Assessor Group
RE	Regionally Extinct
RLA	Red List Authority
SID	Species Identification Number
S/MFBZ	Sundarban/Mangrove Forest Biogeographic Zone
SRCWP	Strengthening Regional Cooperation for Wildlife Protection Project
UNESCO	United Nations Educational, Scientific and Cultural Organization
US	United States
USD	United States Dollar
VH	Very High
VL	Very Low
VU	Vulnerable
WRI	World Resources Institute
WS	Wildlife Sanctuary
Yrs	Years

TABLE OF CONTENTS

1. INTRODUCTION	3
1.1. Fish and Fisheries of Bangladesh	3
1.2. Issues in Bangladesh Fisheries	4
1.3. Fish Habitats in Bangladesh	5
1.4. Local Hydrological Cycles and Fish Production Systems	11
1.5. Red Listing of Fishes in Bangladesh: History and Needs for Updating	11
2. UPDATING SPECIES RED LIST OF BANGLADESH: ASSESSMENT METHODOLOGY	15
2.1. Red List Assessment: from Field to Publication	15
2.2. Red List Assessment Tools	17
2.3. Red List Assessment Guideline (version 3.1)	18
2.3.1. Taxonomic Range of the Assessment	18
2.3.2. Categories	18
2.3.3. Criteria for Critically Endangered, Endangered and Vulnerable	21
3. STATUS OF FRESHWATER FISHES IN BANGLADESH	29
3.1. Present Status of Freshwater Fishes	29
3.2. Red List Assessment 2000 vs. 2015	29
3.3. Global vs. Bangladesh National Assessment	31
3.4. Large Fish vs. Small Threatened Fishes	32
3.5. Local Distribution Ranges of Threatened Fishes	33
3.6. Resident Categories and Habitat Preference of Threatened Fishes	33
3.7. Threats to Freshwater Fishes in Bangladesh	37
3.7.1. Habitat Loss	37
3.7.2. Over and Unplanned Exploitation	38
3.7.3. Aquatic Pollution	39
3.7.4. Introduction of Exotic Fish	40
3.7.5. Impact of Climate Change on Freshwater Fishes	40

4. CONCLUSION AND RECOMMENDATIONS	43
4.1. General Recommendations	43
4.2. Legal and Policy Recommendations	43
4.3. Conservation Measures	43
4.4. Recommendations on Future Works	44
4.5. Expected Application of the Assessment	44
5. SPECIES PROFILE	45
REFERENCES	317
APPENDICES	339
Appendix-i: Status of Freshwater Fishes in Bangladesh	341
Appendix-ii: Sample Assessment Sheet	350
Appendix-iii: Technical Terms	352
Appendix-iv: Summary of The Red List Criteria (A-E) for Threatened Categories	355
Appendix-v: Contributor Index	356

INTRODUCTION



1. INTRODUCTION

1.1. Fish and Fisheries of Bangladesh

The diverse aquatic habitats in Bangladesh support a wide variety of fish. The total number of freshwater fish species occurring in Bangladesh compiled as 250 to 266 species (Rahman 2005, Siddiqui *et al.* 2007). A modest estimate puts it to a total figure of 260 species. However, subsequently, a number of species have been added to the list (Ahmed *et al.* 2013, Singer and Page 2015, Kullander *et al.* 2015). It is believed that there are not many freshwater fish species that remain unexplored in Bangladesh. On the other hand, all the species reported as freshwater species are not exclusively freshwater, as many as 62 species are found in estuaries, many of them ascend tidal rivers from the Bay of Bengal (Rahman 2005, Siddiqui *et al.* 2007). Of the reported species, 104 are considered riverine species, 36 migratory (travelling rivers and floodplains) and the rest 113 are floodplain resident species (FAP 17 1994). Riverine species breed in rivers, migratory species breed in rivers, but perform lateral migrations between river and floodplains during flood period and floodplain resident species breed and feed in floodplains, but may find refuge in rivers during dry season. Besides, a total of 20 species of prawns, 4 species of crabs and 26 species of molluscs are known to occur in freshwaters of Bangladesh (Ahmed and Ali 1996, Siddiqui *et al.* 2008a and 2008b). A large number of freshwater fish species occur in hill streams, usually not found in other aquatic habitats. Hill stream fishes are specialized to adapt the fast flowing waters with sandy and pebbly bottoms. In addition, as many as 24 introduced exotic species are found

in freshwater aquaculture (Hossain 2014), some of which occasionally escape into open waters, but have not yet been able to establish in inland open waters.

Fish and fisheries play an important role in the nutrition, economy, employment and culture of Bangladesh people. In fact, fish is second staple food after rice in Bangladesh. It is the sixth freshwater fish producing country in the world (FAO 2005) and produces 961,458 mt freshwater fish annually (FRSS 2014). Fish still provides 60% animal protein to our diet and per capita fish intake in the country amounts to 52 g/capita/day (DoF 2014) against a recommended level of 68 g/capita/day.

Freshwater capture fisheries contributes 9,46,458 mt to total fish production, which is 28.19% of the country's total fish production (FRSS 2014). Information on habitat wise fish production in the country is provided in Table 1. Fisheries contributes about 4.37 % to country's GDP and 23.37% to the Agricultural GDP. Fisheries also earn BDT 43,126.1 million from fish export, which is 2% of country's total foreign earnings (DoF 2014).

A total of 1.2 million professional fishers in Bangladesh are involved in fishing on a full-time basis for their livelihood, while another 10 million fishers undertake subsistence fishing either for supplementing their incomes or for household consumption. In fact, each household in rural Bangladesh undertakes some sort of fishing (DoF 2014). Any decline in fish production in the country will affect the nutrition, employment and livelihood of many people of the country. Therefore, sustenance of fisheries resources

Table 1. Extent of freshwater fish habitat areas and fish production in Bangladesh

Sector of Fisheries	Water area (Hectare)	Total production (mt)	%
Inland Fisheries			
(i) Inland Open Water (Capture)			
1. River and Estuary	8,53,863	1,47,264	
2. Sundarbans	1,77,700	15,945	
3. Beel	1,14,161	87,902	
4. Kaptai Lake	68,800	9,017	
5. Floodplain	27,02,304	7,01,330	
Capture Total	39,168,28	9,61,458	28.19%
(ii) Inland Closed Water (Culture)			
6. Pond	3,71,309	14,46,594	
7. Seasonal cultured water body	1,30,488	2,00,833	
8. Baor	5,488	6,146	
9. Shrimp/Prawn Farm	2,75,274	2,06,235	
Culture Total	7,82,559	18,59,808	54.54%
Inland Fisheries Total	46,99,387	28,21,266	82.73%

Source: DoF, 2014

in Bangladesh is extremely necessary and remains an imperative for the country.

1.2. Issues in Bangladesh Fisheries

It is generally held that fish production from inland open waters is declining rapidly in Bangladesh and apparently abundance of many species are highly reduced. Habitat loss caused by massive siltation, infrastructure development, drying up of water bodies, dewatering, conversion of wetlands, overfishing and aquatic pollution are the major causes for the fish population decline in Bangladesh. Until 1970s, there was an abundance of fish in the natural waters of the country to well-satisfy the demand. However, capture fish production has declined more than 50%, with a negative trend of 1.24 % per year (Ahmed 1995). As a result, several fish species are in the verge of extinction, while many others

are facing the risk of extinction in future. Anecdotal statement in rural areas of the country about past fisheries reflects the magnitude of reduction in fish abundance in the country and the rural people cherish the memories of the glorious past days when fishes were plentiful in all water bodies. The declining situation in freshwater fisheries has created a great concern among politicians, professionals, managers and civil societies. The degrading situation in inland open water fisheries is likely to impact the loss of fish diversity and abundance detrimentally impacting the life and livelihood of the people historically dependent on it. The 2000 Red List of Bangladesh Fish shows that as many as 54 species were variously threatened in the country facing the risk of extinction. It is strongly argued that Bangladesh must conserve and manage fisheries on the basis of sustainability principle.

The declining trend in fish production and fish abundances in the country spurred government efforts for the conservation and management of fisheries resources sustainably. The concern for fish conservation in the country dates back to 1950 with the promulgation of Fish Conservation Act, 1950. To address the present day needs the Act was amended in 2012. A pragmatic Fisheries Policy (Bangladesh Fisheries Policy 2000) with major focus on Inland Open Water Fisheries has been developed. The Fish Act imposes mesh size restriction, bans on use of destructive gears and methods with provision for capital and financial punishment. Bangladesh Wildlife (Conservation and Security) Act 2012 also includes several fish in Schedule 2 with provision for imposition of restriction on fishing of these species. Besides, sectoral policies of many government agencies, for example, Ministry of Environment and Forests, Ministry of Land, Ministry of Water Resources, etc., have provisions for conservation of fishes and their enhancement. As a signatory to the Convention of Biological Diversity (CBD), Bangladesh is committed to list the species that need to be brought under protection scheme, requiring an assessment of fishes.

1.3. Fish Habitats in Bangladesh

Bangladesh is primarily a deltaic country in the Ganges, Brahmaputra and Meghna (GBM) drainage systems covering an area of 1,47,570 km². The country is located in the tropics and lies in between longitudes 88°01'E and 92°41'E and latitudes 20°34'N and 26°38'N. It is bounded in the west by Indian States of West Bengal, in the north and northeast by Indian states of Assam, Manipur, Meghalaya, Mizoram and Tripura, in the southeast by Myanmar and in the south by the Bay of Bengal. The most of the country, in average, is 0-10 m above the mean sea level, some areas are 0-1m above the mean sea level (Rashid 1991) and depending on the flood depths the country is divided into 30 Agro-ecological zones (A-E Zones). The country mainly comprises the plain lands, except hilly areas in the northeastern, eastern and southeastern parts of the country. Because of its low elevation and deltaic

nature, Bangladesh forms an extensive aquatic habitat, comprising a wide range of geographically and ecologically distinct water bodies in the forms of rivers and its tributaries, haors, baors, beels and floodplains. The distribution of wetlands in Bangladesh is shown in Figure 1. The extent of water areas of the country fluctuates greatly depending on the local hydrological regimes influenced by the monsoon rains. In wet season, the areas of aquatic habitats increase enormously with the inundation of the floodplain areas and swelling of the rivers over spilling its banks. The total freshwater area of the country is estimated to be 46,99,387 ha (FRSS 2014) (Table 1) and it provides an extensive habitat supporting wide varieties of fish and other aquatic organisms.

Rivers: There are about 700 rivers including tributaries in Bangladesh constituting a waterway of total length around 24,140 km (Rashid 1991) and these form the main perennial water areas which provide both breeding and feeding habitats, and also provide dry season refuge to fish and other aquatic organisms. The rivers and estuaries cover an area of 8,53,863 ha and produce about 1,47,264 mt fish (Table 1). The major rivers are the Padma, Meghna and Brahmaputra which take its origin from Nepal and India and these rivers with their branches and tributaries form complex network of river systems. The other notable rivers are the Karnaphuli, Matamuhuri, Sangu in the southeastern part, Surma, Kushiara and Kangsha in the northeastern part and the Mahananda, Tista, Atrai, Korotoa in the northwestern part of the country. The river depths range from 2 to 5.5 m, up to 36.5 m in the coast (Rahman 2005). While most of the rivers retain water throughout the year, many secondary and tertiary rivers dry out during dry season, particularly in the northwestern and western regions of the country. All the rivers drain southward to the Bay of Bengal. They increase in numbers and size from the northwest of the northern region to the southeast of southern region. Similarly, water flow in rivers and its tributaries increases manifolds during monsoon and diminishes with the

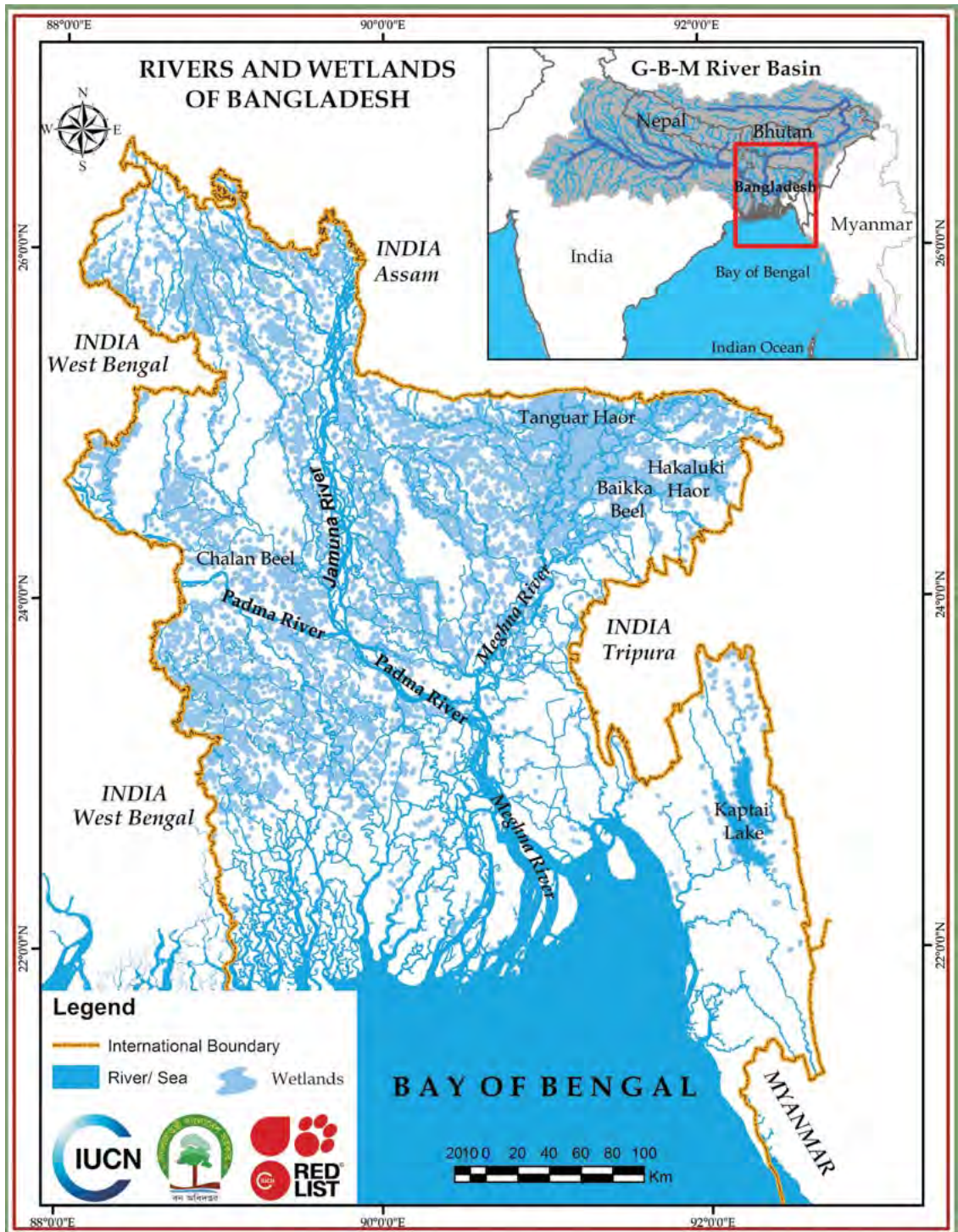


Figure 1. Rivers and Wetlands of Bangladesh

advancement of dry periods with a very lean flow in winter and post winter. Many rivers, particularly in the northwest and southwest parts of the country, almost dry up during the lean flow period.

There are about 104 species of riverine fishes, in addition to migratory fish species that travel between rivers and floodplains and also between marine and freshwaters. Rivers also provide dry season refuge to many floodplain resident species.

Canals: Canals are narrower water channels connecting rivers and floodplains, and act as both feeding and draining channels of floodplains. In fact, these are last part of the river network system. It is the migratory route of fishes between the rivers and floodplains/beels.

Haors: Haors are natural depressions over large areas formed due to subsidence of land. These are found in the northeastern

part of Bangladesh, particularly in the Greater Sylhet and Mymensingh Districts. During monsoon haors merge with nearby water bodies forming a vast water area and sometimes it is regarded as inland sea. Haor may contain a number of beels which hold waters during dry season, when rest of the areas dry out. Haors have diverse range of fish species and contribute significantly to country's fish production (Figure 2).

Estuaries: Bangladesh has also an extensive area of water in the coastal regions and cover an estimated area of 551,828 ha (Ameen 1987). These are highly tidally influenced and may contain water of 1 ppt to 20 ppt salinity depending on the tidal stage and upstream flow. Presently, salt water from the Bay of Bengal enters more than 100 km interior into the rivers (Mollah 2008). The estuarine habitat supports some fishes representing both freshwater and marine fishes, in addition to some specialized groups of fish (Figure 3).



Figure 2. Partial view of Tangaur Haor in moonsoon

© Md Sagir Ahmed



Figure 3. A view of coastal area near Char Kukri Mukri, Charfasion, Bhola.

© Md Sagir Ahmed

Beels: Beels are saucer shaped perennial water bodies in between the river leaves and constitute a major fish production habitat in the country. The total estimated beel area in Bangladesh accounts to 114,161 ha (Table 1) and contributes about 4.2% to the country's freshwater fish production (FRSS 2014). The major beels are located in the northeastern, northwestern, south central regions of Bangladesh (Figure 1). Beel areas expand during monsoon, and are over flooded and merge with floodplains forming continuous water bodies, making it indistinguishable from the adjacent floodplains and considered a single fish production system. In the dry season, the water level goes down and reeds and sedges make them look like marshes. Some beels dry up completely and are cultivated. The peripheral parts of the beels are comparatively shallower and abundant with aquatic vegetation. During dry season the water area squeezes greatly to a minimum and

retain water in the deeper core areas. Beels provide major dry season habitat, breeding and nursing grounds for both white and black fish species of the country and are considered important for aquatic biodiversity.

Baors (Oxbow lakes): Baors represent the old course of rivers, which have been cut off from the main river in course of time. Most baors are located in the southwestern part of the country. These are productive water bodies with both riverine and floodplain fish species. Baors are perennial water bodies and deeper than beels. There are 37 large oxbow lakes and another 50 smaller ones (Ameen 1987) covering a total area of about 5,488 ha and produces 6146 mt fish (FRSS 2014). Sagarkhali, Jaleshwar, Bokor, Thampara, Rampur, Kathgara, Pathanpara are some of the notable baors of Bangladesh. Baors are not much rich in fish diversity, however, harbour some important fishes.

Lakes: There are only three natural lakes in Bangladesh. These are the Rainkhyongkine (22°01' N; 92°33' E) and Bogakine (21° 59' N; 92°29' E) lakes in the Chittagong Hills and the Ashuhila Beel (25°26' N; 89°03' E) at the northern end of the Barind Tract. Kaptai Lake (22°29' N; 92°17' E) is a man-made reservoir in the southeastern part of the country. It is located in the Kaptai Upazila under Rangamati District (Figure 4). The lake was created as a result of making the Kaptai Dam on the Karnaphuli River, as part of the Karnaphuli Hydro-electric project. The total area of Kaptai Lake is 68,800 ha and its average depth is 30 m and maximum depth is 150 m. A total of 74 fish fauna, including six exotic species are reported from the Kaptai Lake.

Ponds and Ditches: Ponds are purposefully dug out pits for fish aggregation, aquaculture and /or for other purposes. There are an estimated 1.3 million fish ponds in the country, covering an area of 3,71,990 ha, of

which 55.30 percent is used for pisciculture, 28.52 percent is fish farmable and 16.18 percent is derelict (Belton *et al.* 2011). In general, the size of fish ponds varies between 0.020 and 20 ha with an average of 0.30 ha (Belton *et al.* 2011). In the past, most of the ponds were dug out for auto-stocking of fish, however, in the recent decades most of these are used for aquaculture. The auto stocked ponds are considered as dry season refuge for breeding stocks in the floodplain areas. A large variety of fish species, representing the floodplain resident and some migratory species, occur in ponds. Ditches are burrow pits, usually found along the roads and other construction areas where soils have been removed for various development purposes, and some of these may have perennial waters. Aquatic vegetation is abundant in ditches. Most ditches dry up during dry season and/or dried out for fishing. These pits support variety of fish species, mostly the floodplain resident ones.



Figure 4. A partial view of the Kaptai Lake, Rangamati

© Md Sagir Ahmed



Figure 5. A typical floodplain of Bangladesh

© Md Sagir Ahmed



Figure 6. A view of a typical hill stream area

© Md Sagir Ahmed

Floodplains: Floodplains are flat lands that are alternately exposed and inundated depending on the monsoon wet and dry seasons. In Bangladesh, most of the floodplains are cultivated lands. Floodplains cover an estimated area of 27,02,304 ha and contribute most to the country's fish production (7,01,330 mt/yr.) (FRSS 2014). These are abundant with aquatic vegetation and support a wide variety of fish species, mostly the smaller ones. Most of the fishes found in this habitat type are floodplain resident species (Ahmed, 2008). During early monsoon the connection between the rivers and the floodplains occurs due to overflows and back up waters from rivers and local rainfalls allowing the lateral migration of spawns of riverine and migratory species from rivers to floodplains and utilizes this habitat

as feeding ground. Floodplains retain waters for up to 5-7 months at varying flood depths (Figure 5).

Hill Streams: A huge number of hill streams occur largely in the hilly areas of the north eastern, eastern and southeastern regions of the country and in the north central areas bordering India (Figure 6). These are fast flowing water bodies and support specialized groups of fishes, which are not usually found in the other type of water bodies. A recent study explored as many as 86 freshwater species inhabiting hill streams, many of which are exclusive inhabitants of these water bodies (Ahmed *et al.* 2013). The hillstreams have extremely low flow during dry season and pools of water at places support fish and other aquatic organisms during the dry period.

1.4. Local Hydrological Cycles and Fish Production Systems

The hydrological cycles in Bangladesh are strongly related to monsoon rains at local level, Himalayan Region and also in the upstream catchment areas. Monsoon usually starts in April with sudden burst of rain and intense rains occur from late June continues up to the beginning of October. The water area in the floodplains expands with the onset of rain, flooding major areas in Bangladesh. Peak flooding occurs in August-September and draw down starts in October and low flow occurs from December to March (FAP 17 1995). Different water bodies merge together due to flooding to form vast water areas. Many water bodies dry out during lean period, when the remaining perennial water bodies contain reduced water.

Reproduction, growth, abundance and production of fish in Bangladesh are finely tuned to the dynamic hydrological regimes of the country (Halls *et al.* 1999, Ahmed 2008). Fish mostly reproduce during early monsoon and may continue the same up to July for some species. As the connection between floodplains and rivers are established, lateral migration of fish between rivers and floodplains/ beels takes place. The increased shallow water areas expand the feeding grounds of migratory and floodplain resident fish species. The shallow floodplains are also used as the nursery grounds. The abundance of food in feeding grounds enhances growth of fish (de Graaf *et al.* 2001, Ahmed 2002). Fish growth continues during the monsoon and early recession period. Most fishes in floodplain and shallow waters are harvested during the water receding period (October to November) (Ahmed 2008). However, in comparatively deep water bodies fishing may continue until March-April (FAP 17 1995).

1.5. Red Listing of Fishes in Bangladesh: History and needs for Updating

In 2000, the IUCN Bangladesh Country Office with support from the IUCN Global Office published the first Red Data Book in Bangladesh, where a total of 895 species

(including 266 species of freshwater fishes) were assessed and a total of 201 species including fishes, amphibians, reptiles, birds and mammals were considered threatened according to Bangladesh National Criteria. Among these, there were 54 threatened species of fishes. The IUCN Red Books in Bangladesh are widely consulted by the government, non-government agencies and professionals of the country, and in many ways it effectively guided conservation policies and initiatives of the country for conservation of fishes.

More than a decade has passed since the Red List Assessment was done in Bangladesh. In September, 2003, the Assessment Criteria have been changed globally and as a result most countries are re-assessing or updating their list based on the new Assessment Criteria. There is also a concern in Bangladesh for the inclusion of other faunal groups, including crabs, prawns and butterflies for assessment as these are also affected by anthropogenic activities and other natural calamities.

Since the last Bangladesh Red List Assessment, there have been changes in the threat levels as human activities have tremendously increased, on the other hand, some efforts have been taken for the protection of some species and thus an updated assessment following new criteria was felt urgent. The previous Red List is also outdated as several new species have been explored in recent times. All these demanded the Updating Species Red List in Bangladesh. The freshwater fish species are no exception to this. Therefore, there was an urgent need for Bangladesh to re-assess the status of the freshwater fishes.

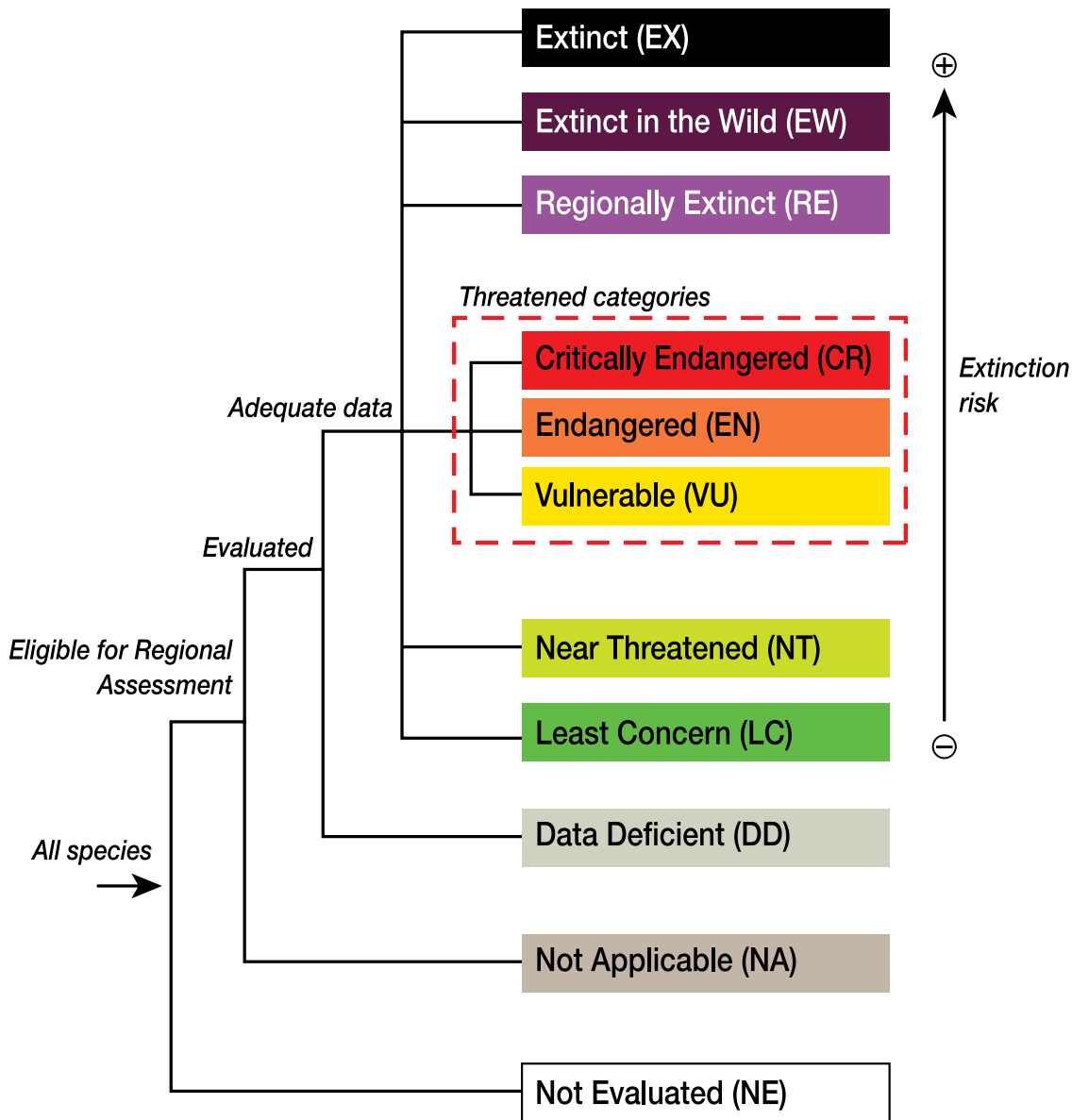


Figure 8. Red List categories (Regional/National Level) (IUCN 2012)

them to subsets of global data, especially at regional, national or local levels needs to refer to the guidelines prepared by the IUCN/SSC Regional Applications Working Group and the National Red List Working Group of the IUCN SSC Red List Committee (e.g. Gardenfors *et al.* 2001; IUCN 2003, 2012). All the rules and definitions in the IUCN Red List Categories and Criteria: Version 3.1 (IUCN 2001, 2012) apply at regional levels, unless otherwise indicated in the above regional guideline.

When applied at national or regional levels it must be recognized that a global category may not be the same as a national or regional category for a particular taxon. For example, taxa classified as Least Concern globally might be Critically Endangered within a particular region where numbers are very small or declining, perhaps only because they are at the margins of their global range. Conversely, taxa classified as Vulnerable on the basis of their global declines in numbers or range might be Least Concern within a particular region where their population are stable. Similar results were found in the cases of current assessment, many species assessment results differed from their category assessed at the global level.

It is also important to note that taxa endemic to regions or nations will be assessed globally in any regional or national applications of the criteria, and in these cases great care must be taken to check that an assessment has not already been undertaken by a Red List Authority (RLA), and that the categorization is agreed with relevant RLA. In Bangladesh, during this assessment process, no such endemic species were assessed that needed to be considered for above steps. However, following the regional assessment guideline two more categories were applied (IUCN, 2012), Regionally Extinct (RE) for those species extinct locally but still exist elsewhere and Not Applicable (NA) for species those are not native to the region or country concerned. All taxa listed as Critically Endangered qualify for Vulnerable and Endangered, and all listed as Endangered qualify for Vulnerable. Together

these categories are described as 'threatened'. The threatened categories form a part of the overall scheme. All the taxa were placed into one of the categories listed in the Figure 8.

Explanation of the above categories is given below:

EXTINCT (EX)

A taxon is Extinct when there is no reasonable doubt that the last individual has died. A taxon is presumed Extinct when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form.

EXTINCT IN THE WILD (EW)

A taxon is Extinct in the Wild when it is known only to survive in cultivation, in captivity or as a naturalized population (or populations) well outside the past range. A taxon is presumed Extinct in the Wild when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form.

REGIONALLY EXTINCT (RE)

Category for a taxon when there is no reasonable doubt that the last individual potentially capable of reproduction within the region has died or has disappeared from the wild in the region, or when, if it is a former visiting taxon, the last individual has died or disappeared in the wild from the region. The setting of any time limit for listing under RE is left to the discretion of the regional Red List authority, but should not normally pre-date 1500 AD.

CRITICALLY ENDANGERED (CR)

A taxon is Critically Endangered when the best available evidence indicates that it meets any of the criteria A to E for Critically Endangered, and it is therefore considered to be facing an extremely high risk of extinction in the wild.

ENDANGERED (EN)

A taxon is Endangered when the best available evidence indicates that it meets any of the criteria A to E for Endangered, and it is therefore considered to be facing a very high risk of extinction in the wild.

VULNERABLE (VU)

A taxon is Vulnerable when the best available evidence indicates that it meets any of the criteria A to E for Vulnerable, and it is therefore considered to be facing a high risk of extinction in the wild.

NEAR THREATENED (NT)

A taxon is Near Threatened when it has been evaluated against the criteria but does not qualify for Critically Endangered, Endangered or Vulnerable now, but is close to qualifying for or is likely to qualify for a threatened category in the near future.

LEAST CONCERN (LC)

A taxon is Least Concern when it has been evaluated against the criteria and does not qualify for Critically Endangered, Endangered, Vulnerable or Near Threatened. Widespread and abundant taxa are included in this category.

DATA DEFICIENT (DD)

A taxon is Data Deficient when there is inadequate information to make a direct, or indirect, assessment of its risk of extinction based on its distribution and/or population status. A taxon in this category may be well studied, and its biology well known, but appropriate data on abundance and/or distribution are lacking. Data Deficient is therefore not a category of threat. Listing of taxa in this category indicates that more information is required and acknowledges the possibility that future research will show that threatened classification is appropriate. It is important to make positive use of whatever data are available. In many cases great care should be exercised in choosing between DD and a threatened status. If the range of a taxon is suspected to be relatively circumscribed, and a considerable period of time has elapsed since the last record of the taxon, threatened status may well be justified.

NOT EVALUATED (NE)

A taxon is Not Evaluated when it has not yet been evaluated against the criteria.

NOT APPLICABLE (NA)

Category for a taxon deemed to be ineligible for assessment at a regional level. A taxon may be NA because it is not a wild population or not within its natural range in the region, or because it is a vagrant to the region. It may also be NA because it occurs at very low numbers in the region (i.e. when the regional Red List authority has decided to use a “filter” to exclude taxa before the assessment procedure) or the taxon may be classified at a lower taxonomic level (e.g. below the level of species or subspecies) than considered eligible by the regional Red List authority. In contrast to other Red List Categories, it is not mandatory to use NA for all taxa to which it applies; but is recommended for taxa where its use is informative.

2.3.3. Criteria for Critically Endangered, Endangered and Vulnerable

The Red List Assessment is based primarily on five broad Criteria as follows:

- **Criteria A:** Population reduction (measured in percent reduction of population) for different threatened categories. This criterion has four sub-criteria which further take into accounts four factors.
- **Criteria B:** Geographic range in the form of either B1 (Extent of Occurrences-*EOO*) and B2 (Area of Occupancy-*AOO*)
- **Criteria C:** Applicable for small population size and decline
- **Criteria D:** Applicable for very small or restricted population (used in terms of number of mature individuals)
- **Criteria E:** Relates to Qualitative Analysis

CRITICALLY ENDANGERED (CR)

A taxon is Critically Endangered when the best available evidence indicates that it meets any of the following criteria (A to E), and it is therefore considered to be facing an extremely high risk of extinction in the wild:

- A. Reduction in population size based on any of the following:
 1. An observed, estimated, inferred or

STATUS OF FRESHWATER FISHES IN BANGLADESH



3. Status of Freshwater Fishes in Bangladesh

3.1. Present Status of Freshwater Fishes

In the current assessment, a total of 253 fish species were assessed, of which, 64 species have been found Threatened, which is 25.3% of the total species assessed. The Threatened fishes comprise nine species as Critically Endangered, 30 species Endangered and 25 species as Vulnerable. 27 species of fish were assessed as Near Threatened (NT), 122 species as Least Concern (LC) and the rest 40 species were considered Data Deficient (DD). No fish was found Extinct or Regionally Extinct. The percent occurrences of Bangladesh freshwater fishes under different Assessment Categories are shown in Figure 9. Further, a group (Order) wise distribution of the freshwater fishes of Bangladesh is presented in Table 2. whereas a list of the threatened freshwater

fishes with some relevant information is provided in Table 3. The majority (53%) of the threatened fish belong to carps, barbs and loaches (Order Cypriniformes), followed by catfishes (Siluriformes) and perches (Perciformes). Status and distribution of all assessed freshwater fishes are provided in Appendix-i.

3.2. Red List Assessment 2000 vs 2015

In the previous assessment (IUCN Bangladesh 2000), a total of 266 species of fishes were assessed, of which, 54 species were considered as Threatened. Among the assessed fishes, 12 species were Critically Endangered (CR), 28 species Endangered (EN), 14 species Vulnerable (VU), 66 species Data Deficient (DD) and the rest 146 species were considered Not Threatened (NO). This shows about 18.5% increase in threatened fish in the

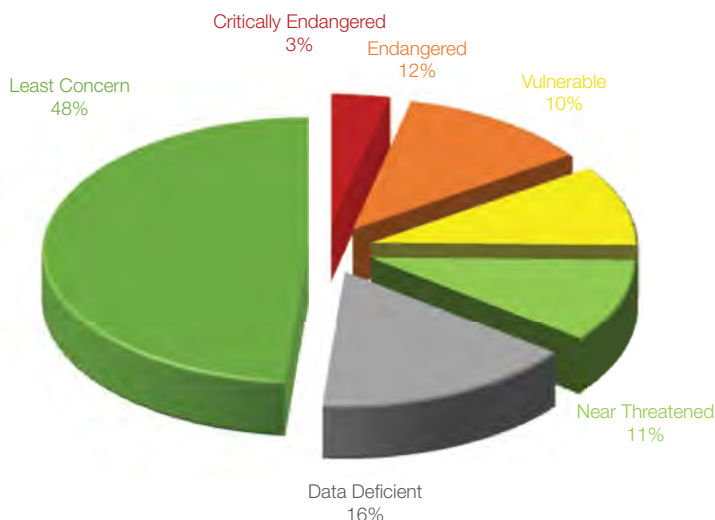


Figure 9. Percent distribution of freshwater fishes of Bangladesh

Table 2. Order wise distribution of different categories of threatened and non-threatened freshwater fishes of Bangladesh

Status Code: EX- Extinct, EW- Extinct in the Wild, RE- Regionally Extinct, CR- Critically Endangered, EN- Endangered, VU- Vulnerable, NT- Near Threatened, LC- Least Concern, DD- Data Deficient, NE- Not Evaluated.

Name of Orders	Total species assessed	Threatened species (by number)						Total Threatened	Non-threatened species (by numbers)				Total Non-Threatened
		EX	EW	RE	CR	EN	VU		NT	LC	DD	NE	
Anguilliformes	3	-	-	-	-	-	1	1	-	2	-	-	2
Beloniformes	6	-	-	-	-	-	-	-	-	3	3	-	6
Clupeiformes	17	-	-	-	-	-	1	1	-	15	1	-	16
Cypriniformes	92	-	-	-	5	19	10	34	14	27	17	-	58
Cyprinodontiformes	1	-	-	-	-	-	-	-	-	1	-	-	1
Mugiliformes	6	-	-	-	-	-	1	1	-	5	-	-	5
Osteoglossiformes	2	-	-	-	-	1	1	2	-	-	-	-	-
Perciformes	56	-	-	-	1	1	2	4	4	41	7	-	52
Pleuronectiformes	4	-	-	-	-	-	-	-	-	4	-	-	4
Scorpaeniformes	1	-	-	-	-	-	-	-	-	1	-	-	1
Siluriformes	55	-	-	-	3	8	5	16	7	21	11	-	39
Synbranchiformes	5	-	-	-	-	1	2	3	1	1	-	-	2
Syngnathiformes	3	-	-	-	-	-	2	2	1	-	-	-	1
Tetratodontiformes	2	-	-	-	-	-	-	-	-	1	1	-	2
Total	253	-	-	-	9	30	25	64	27	122	40	-	189

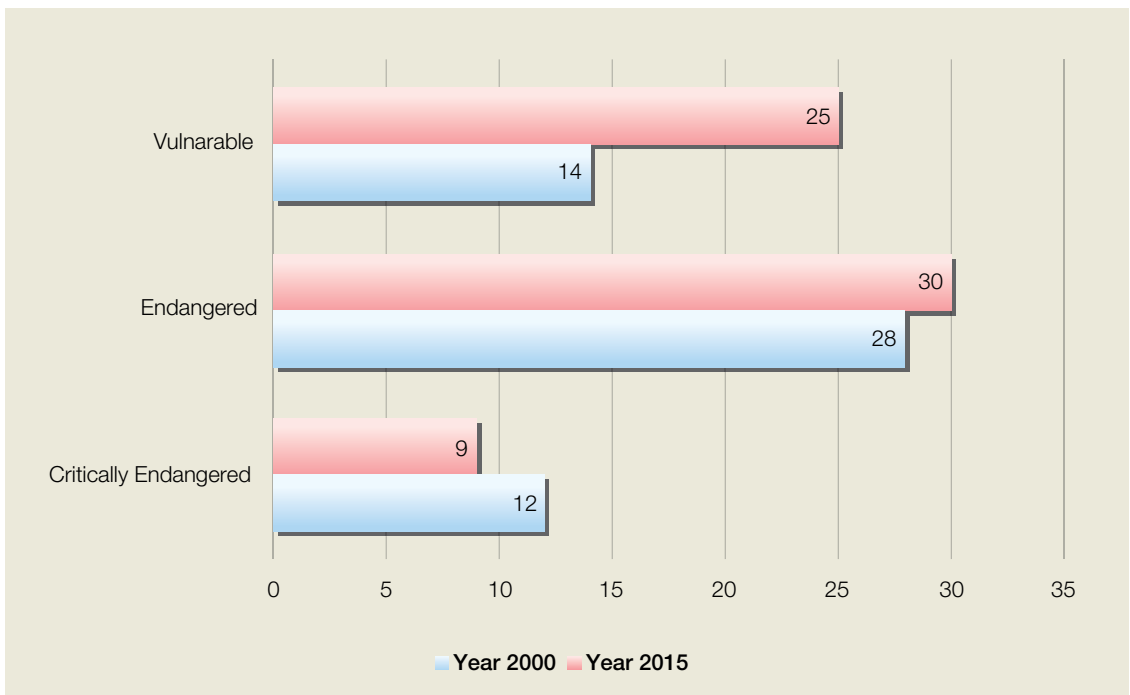


Figure 10. Comparison of threatened freshwater fishes of Bangladesh between IUCN 2000 and 2015 assessment.

2015 assessment over the previous assessment carried out in the Year 2000. However, there is a decrease in Critically Endangered species by 25% in the current assessment, whereas the Endangered and Vulnerable species showed increases by 21.4% and 78.5%, respectively, compared to the previous assessment. Of the 12 Critically Endangered species in the previous assessment, only six species have been reassessed as Critically Endangered and four species has down graded to Endangered and another two species (*Eutropiichthys vacha* and *Silonia silondia*) have been pushed up to Least Concern (LC) category in the current assessment. The Data Deficient Category also decreased in the current assessment by 40.9%, indicating an improvement in the availability of information on the Bangladesh fishes. In addition to 64 Threatened species, another 27 species have been assessed as Near Threatened in the present assessment. All these signify that in Bangladesh the threats to fish have not been reduced, rather increased and little has been done to protect the threatened fishes in Bangladesh since the year 2000. However, it is difficult to discern whether the assessment methods have any impacts on the observed differences on the number of

Threatened species between two assessments. Figure 10 compares the number of threatened species between IUCN Red List Assessment 2000 and 2015.

3.3. Global vs. Bangladesh National Assessment

Of the 253 freshwater fish species assessed in Bangladesh, a total of 189 fish species was also assessed globally (IUCN 2013), applying the same assessment Criteria as used as in the present assessment (version 3.1). None of the Critically Endangered (CR) and Endangered (EN) fishes of Bangladesh was assessed Threatened globally, however, only four species of Bangladesh fishes considered Vulnerable (VU) globally, of these two species are also Vulnerable (VU) nationally in current assessment. Of the globally threatened Bangladesh fishes, *Cirrhinus cirrhosus* is Near Threatened (NT), *Devario anomalus* is Least Concern (LC), *Botia rostrata* is Data Deficient (DD) and *Monopterusuchia* is Vulnerable (VU) in Bangladesh. This clearly indicates that almost all Bangladesh Threatened freshwater fish species are not globally Threatened, which means that although these species have declined locally in Bangladesh waters,

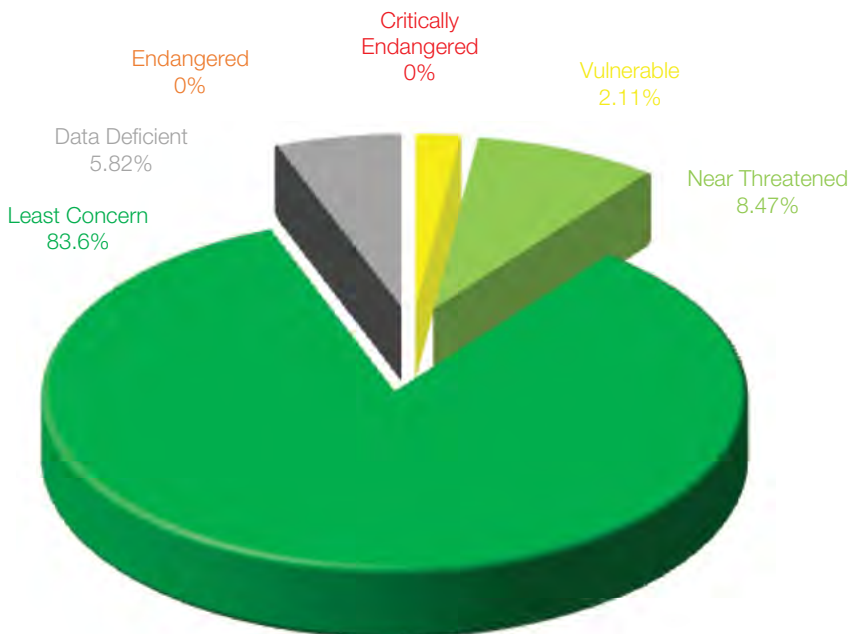


Figure 11: Percent distribution of different categories of freshwater fishes in global assessment (IUCN 2013)

these are comparatively abundant within its global or regional distribution ranges. Of the 64 threatened fish species of Bangladesh, only two species have been considered threatened (Vulnerable) globally. The rest of the threatened fishes of Bangladesh have been globally assessed as 12 species Near Threatened, 41 species Least Concern (LC), one species Data Deficient (DD) and another seven species have not been evaluated globally. The percent distribution of Bangladesh freshwater fishes under different assessment categories according to global assessment (IUCN 2013) is shown in Figure 11

3.4. Large Fish vs. Small Threatened Fishes

The analysis of the assessment results shows that most of the Threatened species (about 80%) belong to medium to smaller (below 25 cm) fish groups. In Bangladesh, the smaller fishes are dominant group by species number and therefore, the percent occurrences of the Threatened fishes probably simply reflect the proportionate occurrences of small fishes in the country. Large fishes are predominantly riverine and usually inhabit larger river systems. Although, their habitats are altered greatly by siltation but still these hold plenty of water during dry season and thus complete

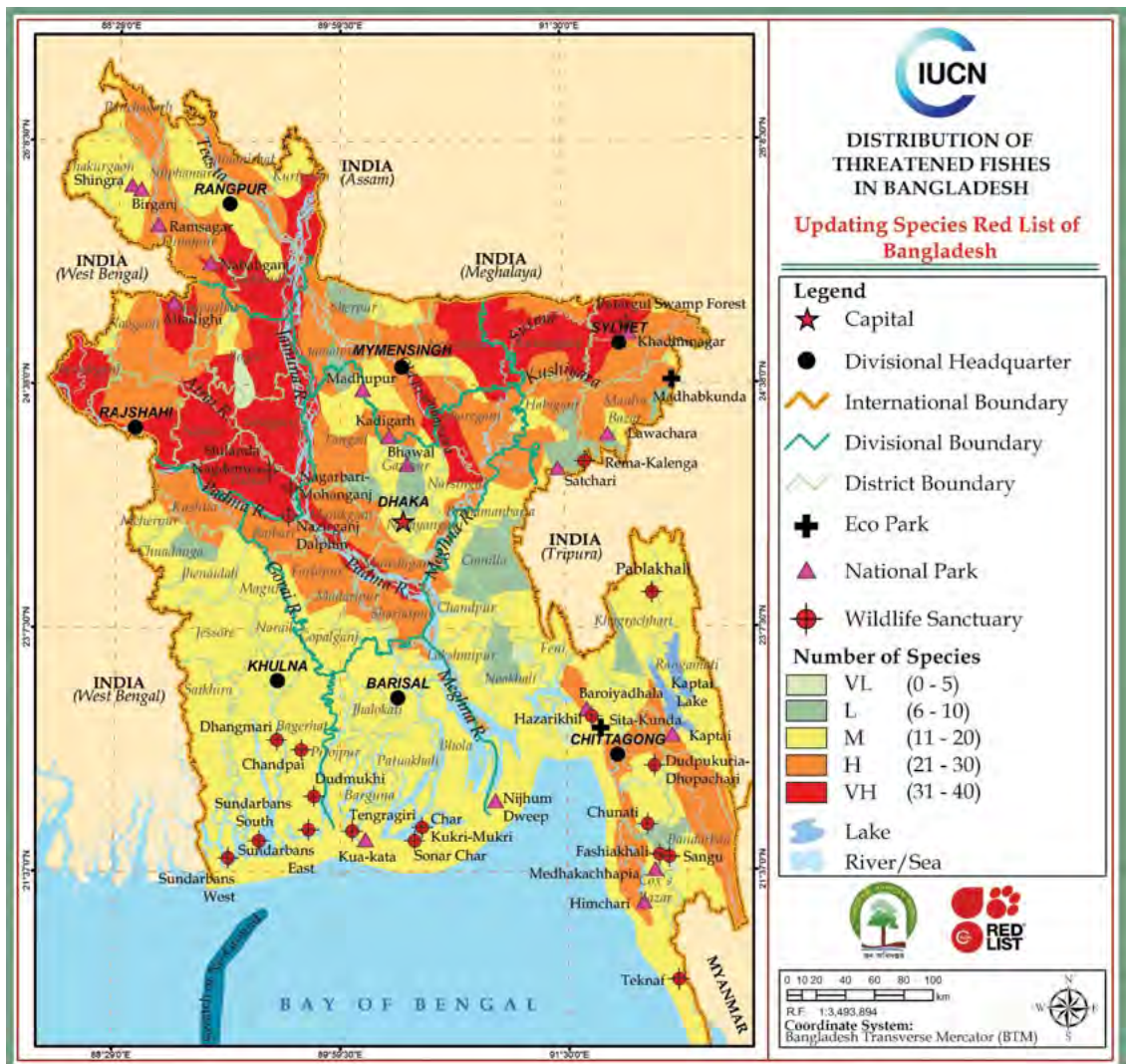


Figure 12. Local distribution ranges of threatened freshwater fishes of Bangladesh

fishing does not occur. On the other hand, smaller fishes mostly occupy various habitats, predominantly in small tributaries, floodplains and other smaller water bodies and many of these dry out during dry season. These fishes are also largely affected by pesticides, over fishing, like dewatering, use of small mesh size, etc.

3.5. Local Distribution Ranges of Threatened Fishes

Although most fish species in Bangladesh are widely distributed within the country, however, many species show localized distribution. Figure 12 shows the local distribution ranges of the threatened fishes in Bangladesh. The majority (in the range of 30-40 spp) of the threatened fishes are found mainly in the northwestern and northeastern parts of the country, while limited number of threatened species is found in the southern parts of the country (in the range of 10-20 spp). Some parts of northwestern, north central and northeastern

and southeastern regions of the country also have moderate number of threatened fishes (in the range of 20-30 spp.). This distribution of Threatened fishes is probably related to the observed widespread habitat loss in the northern parts, compared to the southern parts of the country where rivers are still wider and deeper. The northeastern, northwestern and southeastern hilly areas of the country also support a good number (12 species) of Threatened species. This is again attributable to the widespread degradation to hill streams caused by siltation, removal of boulders and pebbles and increased fishing pressure.

3.6. Resident Categories and Habitat Preference of Threatened Fishes

Three resident categories of freshwater fishes, viz. Riverine, Migratory and Floodplain resident, are recognized in Bangladesh. The riverine fishes breed and feed in rivers, although they could be occasionally found in floodplains and beels, floodplain resident species breeds and

Table 3: Status of Threatened Freshwater Fishes in Bangladesh (arranged in taxonomic order)

Status code: CR-Critically Endangered; EN-Endangered; VU-Vulnerable; NT-Near Threatened; LC-Least Concern; DD-Data Deficient; NE-Not Evaluated, Habitat code: R-River; B-Beel; FP-Floodplain; Et-Estuarine; HS-Hill streams

Sl. No.	Order	Family	Scientific Name	English Name	Local Name	Status in Bangladesh	Global Status	Habitat	Species ID
1	Anguilliformes	Anguillidae	<i>Anguilla bengalensis</i>	Indian Mottled Eel, Giant Mottled Eel, Mottled Eel	Bamosh, Banehara, Bao Baim, Bao Mach, Boa Baim, Telkoma	VU	NT	R	FI0046
2	Clupeiformes	Clupeidae	<i>Gudusia chapra</i>	Indian river shad	Chapila, Chajpla, Suiya, Khaira	VU	LC	FP	FI0062
3	Cypriniformes	Cyprinidae	<i>Chela cachius</i>	Silver hatchlet barb	Chhep chela	VU	LC	FP	FI0018
4	Cypriniformes	Cyprinidae	<i>Aspidoparia morar</i>	Aspidopara	Morari, Morar, Piali, Piasi	VU	NE	R	FI0040
5	Cypriniformes	Cyprinidae	<i>Barilius tileo</i>	Tileo baril, Morari	Tila, Tila Koksa, Patharchata, Khorki	EN	LC	R	FI0043
6	Cypriniformes	Cyprinidae	<i>Barilius barna</i>	Barna Baril	Koksa, Bani Koksa	EN	LC	R	FI0066
7	Cypriniformes	Cyprinidae	<i>Barilius bendelisis</i>	Hamilton's Baril, Hill Trout	Tila, Chedra, Koksa	EN	LC	R	FI0067
8	Cypriniformes	Cyprinidae	<i>Barilius vagra</i>	Vagra Baril, Hill Trout	Khoksa, Vagra	EN	LC	R	FI0068
9	Cypriniformes	Cyprinidae	<i>Megarasbora elanga</i>	Bengala Barb	Elong, Sephatia, Elanga	EN	LC	R	FI0069
10	Cypriniformes	Cyprinidae	<i>Chagunius chagunio</i>	Chaguni	Jarua, Utti	VU	LC	R	FI0071

Sl. No.	Order	Family	Scientific Name	English Name	Local Name	Status in Bangladesh	Global Status	Habitat	Species ID
11	Cypriniformes	Cyprinidae	<i>Crossocheilus latius</i>	Gangetic Latia, Hill-stream Carp	Kala Bata	EN	LC	HS	FI0074
12	Cypriniformes	Cyprinidae	<i>Danio dangila</i>	Dangila Danio, Moustached Danio, Olive danio	Nipati, Gofi Chela	VU	LC	HS	FI0075
13	Cypriniformes	Cyprinidae	<i>Devario anomalus</i>	Anomalous Zebra	Unknown.	EN	VU	HS	FI0078
14	Cypriniformes	Cyprinidae	<i>Garra annandalei</i>	Annandale Garra, Tunga Garra, Log Sucker, Stone Roller	Ghor Poia	EN	LC	HS	FI0081
15	Cypriniformes	Cyprinidae	<i>Garra gotyla</i>	Gotyla, Sucker Head	Ghor Poia	EN	LC	HS	FI0082
16	Cypriniformes	Cyprinidae	<i>Labeo ariza</i>	Ariza Labeo	Lasso, Raik, Bata	VU	LC	R	FI0084
17	Cypriniformes	Cyprinidae	<i>Labeo boga</i>	Boga Labeo	Bhangan, Bhangan bata	CR	LC	R	FI0086
18	Cypriniformes	Cyprinidae	<i>Labeo boggut</i>	Boggut Labeo	Ghonia, Paharia maach, Naru maach	VU	LC	R	FI0087
19	Cypriniformes	Cyprinidae	<i>Labeo nandina</i>	Nandi Labeo	Nandil, Nandi, Nandina	CR	NT	R	FI0093
20	Cypriniformes	Cyprinidae	<i>Labeo pangusia</i>	Pangusia Labeo	Ghora maach, Longu, Ghora Muikha	EN	NT	R	FI0094
21	Cypriniformes	Cyprinidae	<i>Oreichthys cosuatis</i>	Cosuatis Barb	Kosuati punti, Kosua punti, Titkinda, Tit punti	EN	NE	FP	FI0096
22	Cypriniformes	Cyprinidae	<i>Osteochilus hasseltii</i>	Bonylip barb; Hard-lipped Barb; Silvershark Minnow	Unknown.	VU	LC	HS	FI0097
23	Cypriniformes	Cyprinidae	<i>Pethia ticto</i>	Two-spot Barb, Firefin Barb, Ticto Barb	Tit punti	VU	LC	FP, HS	FI0107
24	Cypriniformes	Cyprinidae	<i>Raiamas bola</i>	Trout barb; Bengal trout	Bole	EN	LC	R	FI0108
25	Cypriniformes	Cyprinidae	<i>Tor putitora</i>	Putitor mahseer, Golden mahseer	Mohashol, Mohsheer	EN	NT	R	FI0112
26	Cypriniformes	Cyprinidae	<i>Tor tor</i>	Tor Mahsheer	Mohashol, Mahsheer	CR	NT	R	FI0113
27	Cypriniformes	Cyprinidae	<i>Neolissochilus hexagonolepis</i>	Copper mahseer	Unknown.	EN	NT	HS	FI0114
28	Cypriniformes	Balitoridae	<i>Schistura sikmaiensis</i>	Not known	Dari	EN	LC	HS	FI0122
29	Cypriniformes	Balitoridae	<i>Schistura corica</i>	Polka Dotted Loach	Khorka, Khorki	CR	LC	HS	FI0124
30	Cypriniformes	Balitoridae	<i>Schistura scaturigina</i>	Victory Loach	Dari	EN	LC	HS	FI0126
31	Cypriniformes	Cobitidae	<i>Botia dario</i>	Necktie Loach, Queen Loach, Bengal Loach	Rani Mach, Bou Mach	EN	LC	R	FI0127
32	Cypriniformes	Cobitidae	<i>Botia dayi</i>	Hora Loach, Botya Loach	Rani, Betangi	EN	NE	R	FI0128
33	Cypriniformes	Balitoridae	<i>Botia lohachata</i>	Y-loach, Reticulate Loach	Rani, Putul, Beti	EN	NE	R	FI0129

Sl. No.	Order	Family	Scientific Name	English Name	Local Name	Status in Bangladesh	Global Status	Habitat	Species ID
34	Cypriniformes	Cobitidae	<i>Lepidocephalichthys annandalei</i>	Annaldale Loach	Gutum, Puiya	VU	LC	FP, R	FI0132
35	Cypriniformes	Cobitidae	<i>Lepidocephalichthys irorata</i>	Loktak Loach	Puiya	VU	LC	FP, R	FI0134
36	Cypriniformes	Cobitidae	<i>Neoeucirrhichthys maydelli</i>	Goalpara Loach	Unknown.	CR	LC	R	FI0135
37	Mugiliformes	Mugilidae	<i>Sicamugil cascasia</i>	Yellowtail Mullet	Bata, Kachki, Kachki Bata, Kechi Khalla	VU	LC	ET	FI0214
38	Osteoglossiformes	Notopteridae	<i>Chitala chitala</i>	Humped Featherback, Clown Knife Fish	Chital	EN	NT	R	FI0044
39	Osteoglossiformes	Notopteridae	<i>Notopterus notopterus</i>	Grey Featherback, Freshwater Knife Fish	Foli, Haila, Kanla	VU	LC	FP	FI0045
40	Perciformes	Channidae	<i>Channa barca</i>	Barca Snakehead	Pipla, Pipla Shol, Tila, Tila Shol, Pipla Ool, Tia Shol, Bakka, Tati	CR	DD	FP	FI0003
41	Perciformes	Channidae	<i>Channa marulius</i>	Giant Snakehead, Great Snakehead	Gajar, Gajal, Gajori	EN	LC	FP	FI0005
42	Perciformes	Gobiidae	<i>Awaous grammepomus</i>	Scribbled goby	Shil Baila, Bele	VU	LC	ET, R	FI0019
43	Perciformes	Gobiidae	<i>Eugnathogobius oligactis</i>	Tiger Goby	Bele	VU	LC	ET, R	FI0034
44	Siluriformes	Bagridae	<i>Batasio tengana</i>	Dwarf Catfish	Tengra	EN	LC	R	FI0139
45	Siluriformes	Bagridae	<i>Rita rita</i>	Rita	Rita	EN	LC	R	FI0148
46	Siluriformes	Bagridae	<i>Sperata aor</i>	Long-whiskered Catfish	Air, Ayre, Bhangat, Talla Ayre	VU	LC	R	FI0149
47	Siluriformes	Bagridae	<i>Sperata seenghala</i>	Giant River-catfish	Guji, Guijja, Guijja Ayre, Bhangat	VU	LC	R	FI0150
48	Siluriformes	Siluridae	<i>Ompok bimaculatus</i>	Butter Catfish, Two Spot Glass Catfish	Kani Pabda, Boali Pabda	EN	NT	FP	FI0151
49	Siluriformes	Siluridae	<i>Ompok pabda</i>	Pabda catfish, two stripe Gulper catfish	Pabda, Madhu pabda, Paibba	EN	NT	FP	FI0152
50	Siluriformes	Siluridae	<i>Ompok pabo</i>	Pabo Catfish	Pabda, Kala Pabda	CR	NT	FP	FI0153
51	Siluriformes	Siluridae	<i>Wallago attu</i>	Freshwater shark	Boal, Boali,, Patari, Boyari, Boayair, Keyali.	VU	NT	R	FI0154
52	Siluriformes	Schilbeidae	<i>Clupisoma garua</i>	Garua Bacha, Gagra	Ghaura, Gharua, Gagra, Garua Bacha, Guarchcha	EN	NE	R	FI0157
53	Siluriformes	Pangasiidae	<i>Pangasius pangasius</i>	Pungas, Yellowtail Catfish, Pungas Catfish	Pangas, Pangwash	EN	LC	R, ET	FI0158
54	Siluriformes	Amblycipitidae	<i>Amblyceps laticeps</i>	Indian Torrent Catfish.	Chhota Shingi	VU	LC	R	FI0160

Sl. No.	Order	Family	Scientific Name	English Name	Local Name	Status in Bangladesh	Global Status	Habitat	Species ID
55	Siluriformes	Sisoridae	<i>Bagarius bagarius</i>	Gangetic Goonch, Devil catfish, Fishbase name: dwarf Goonch	Baghair, Baghari, Bagh mach.	CR	NT	R	FI0161
56	Siluriformes	Sisoridae	<i>Glyptothorax telchitta</i>	Copper Catfish	Teli, Telchitta	VU	LC	R	FI0167
57	Siluriformes	Sisoridae	<i>Sisor rabdophorus</i>	Sisor Catfish	Chenua; Cheuna; Sisor, Sai Sore	CR	LC	R	FI0174
58	Siluriformes	Chacidae	<i>Chaca chaca</i>	Squarehead or Angler Catfish	Chaka, Gangainna, Chaka Veka	EN	LC	FP	FI0183
59	Siluriformes	Olyridae	<i>Olyra longicaudata</i>	Longtail Catfish, Himalayan Olyra, Bannertail Catfish	Bot Shingi	EN	LC	HS	FI0184
60	Synbranchiformes	Synbranchidae	<i>Monopterusuchia</i>	Gangetic mudeel; swamp eel	Kuchia, Cuchia, Kuiccha; কুচিয়া, কুইচা	VU	VU	FP	FI0196
61	Synbranchiformes	Synbranchidae	<i>Ophistemon bengalense</i>	Bengal eel; Pygmy eel	Bamosh	VU	LC	ET, R	FI0197
62	Synbranchiformes	Mastacembelidae	<i>Mastacembelus armatus</i>	Tire-track Spinyeel	Baim, Sal Baim,	EN	NE	R	FI0243
63	Syngnathiformes	Syngnathidae	<i>Microphis cuncalus</i>	Crocodile Tooth Pipefish	Kumirer Khil, Kumirer Kona	VU	LC	ET, R	FI0194
64	Syngnathiformes	Syngnathidae	<i>Microphis deocata</i>	Deocata Pipefish	Kumirer Khil	VU	NT	ET, R	FI0195

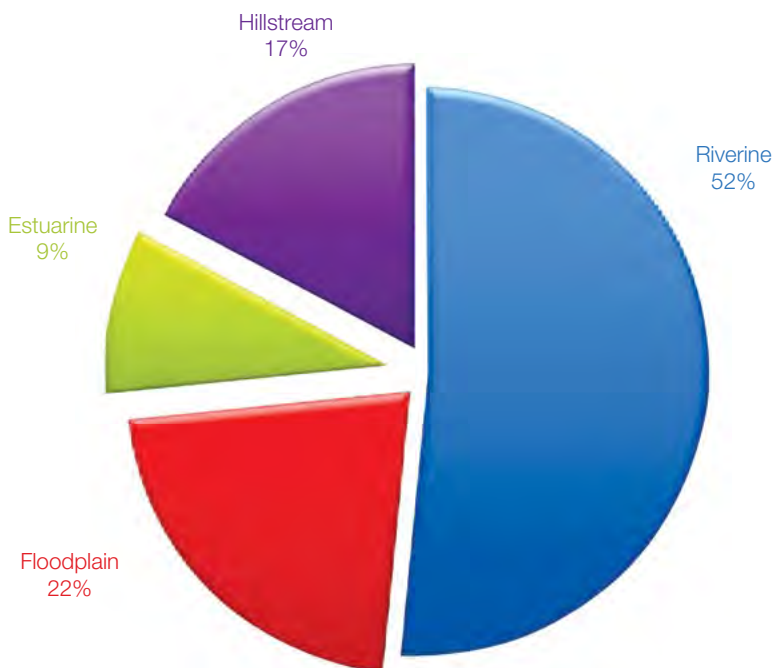


Figure 13. Habitat preference of the threatened freshwater fishes of Bangladesh.

feeds in the floodplain areas and beels, but may take refuge in rivers during dry periods. The migratory fishes perform lateral migration between rivers and floodplains as strategies of their life cycles. Another group could be regarded as hill stream inhabitant. These fishes primarily feed and breed in hill streams.

In the present assessment, another group of fish inhabiting estuarine fishes has been assessed and categorized as estuarine. These fishes are found in estuarine areas, many of these migrate from sea to estuaries and some of these ascend tidal rivers. Accordingly, of the threatened fishes of Bangladesh, 33 species are riverine, 14 species floodplain resident, 6 species estuarine and another 11 species are exclusively hill stream inhabitants. Among the riverine species, at least 11 species are migratory in habit and travel to floodplain during monsoon for feeding or spawning. The percent occurrences of the Threatened species according to their habitat preference and resident category are shown in Figure 13 and Table 3. The categorization of fish according to habitats sometimes is arbitrary and tricky, as many species are widely distributed within different habitat types depending on the life stages, hydrological regimes and critical survival periods. For example, when floodplain areas dry out during winter, many floodplain resident species find their way into nearby perennial water bodies, like rivers.

3.7. Threats to Freshwater Fishes in Bangladesh

The rapid increase of human population and subsequent intensification of natural resource utilization, agricultural and industrial activities along with deficient water management have led to the enhancement of threats for freshwater fish extinction. Although, some species respond positively to anthropogenic pressures, the great majority show only limited tolerance of increasingly widespread and rapid changes to ecosystems. It is widely recognized that changes in the fish habitats in Bangladesh caused due to both natural and anthropogenic processes have led to the high degree of population decline and

disappearances of some fish species from the country. Siltation of water bodies is also reducing the fish habitat. The major human induced impacts on freshwater fishes of Bangladesh are habitat destruction and fragmentation through blockade of migration routes, invasive alien species, over-exploitation, disease, aquatic pollution incidental mortality and climate change.

3.7.1. Habitat Loss

Bangladesh is probably losing its wetlands faster than any other habitat types, caused primarily due to massive siltation, conversion of wetlands, development interventions, like implementation of flood control projects, constructions of roads, townships and other developmental infrastructures. Being located in the lower basins of the mighty river systems that drain from Himalayan catchment areas, the aquatic habitat of Bangladesh is particularly affected by massive siltation causing widespread habitat loss in the country. In fact, siltation of water bodies contributes mostly to the aquatic habitat loss and degradation in Bangladesh (Craig *et al.* 2004). An estimate shows that the rivers carry annually 2.4 billion mt silts, which is deposited on the river beds and floodplains and beel bottoms (Spillmann and Bachler 1993). This has caused river bed and beel bottom up, rendering these to drying during lean flow periods or reducing its depths below the critical levels, unsuitable for fish to thrive. The erosion in the Himalayan areas and river banks generate this massive amount of silts. Conversion of wetlands is mainly done for claiming agricultural lands is also a major and widespread cause for the loss of wetlands in the country. In the past, huge water areas, particularly the peripheral areas of beels and marshes have been converted to agricultural fields and the process is still continuing. Similarly, expansion of human settlements and township into the wetlands by filling with dredged materials also contribute to that process. In Bangladesh, construction of embankments for the purpose of protection from tidal inundation and flood control and irrigation have contributed greatly to the degradation of wetlands and consequently to its resources. This intervention resulted in the control flooding reducing the viable areas

for fish growth and reproduction (Mirza and Ericksen 1996) Embankments along the river banks restricts the lateral migration of fishes, thus disrupt the river-floodplain fish production system having detrimental impacts on fish production. Convincing evidences suggest that the flood control interventions significantly reduced the fish diversity and its production (FAP-17, 1995). Similarly, construction of extensive road and cross road network across the floodplain areas of Bangladesh with little or/no fish passes has severely fragmented the wetlands. This fragmentation process restricts the movement of fish, which results in smaller, more isolated sub-populations of fish, with reduced possibilities for dispersal and increased risks of local and ultimately global extinction (Figure 14).

The rivers of the northern, western and northeastern parts of the country are particularly severely affected by siltation to such a state that most rivers of these areas dry up during lean flow periods and also these are squeezed to such an extent that now many of these are not

recognizable as rivers. Beels and floodplain of these areas have also lost their depths greatly, no longer able to support many fish species.

3.7.2. *Over and Unplanned Exploitation*

High demand and high price of fishes, coupled with country's high unemployment situation resulted in putting increased efforts in fishing and very often these lead to over-exploitation of aquatic resources, particularly the fishes. The situation has also aggravated because of invention and adoption of destructive fishing methods, practices, like use of small mesh size nets and monofilament gill nets, poisoning, dewatering of water bodies, etc. Because of poor implementation of fish acts and poor/or lack of management practices in the country, juvenile and brood fish exploitation continues, often leading to reproductive failure, hampering the future recruitment of fish. Overfishing not only affects the commercial species but also affects the non-targeted small species as by-catches. Fishing by dewatering of water bodies, particularly in winter (dry season) is another destructive fishing method, common



Figure 14. Present state of Kapotakkyia River in Bangladesh

© IUCN/ Selina Sultana

in Bangladesh which kills indiscriminately all aquatic organisms. Beel and floodplain resident species (black fishes) usually take shelter in ditches or pits in winter, fishing by dewatering of those water bodies kills all spanners resulting 'recruitment over fishing' for that population. This is characterized by a greatly reduced spawning stock, a decreasing proportion of older fish in the catch and generally very low recruitment year after year. In Bangladesh, over-and unplanned fishing, thus remain as a major widespread threat to fish.

3.7.3. Aquatic Pollution

Use of pesticides and fertilizers: The boosting up of crop production to meet the demands of the ever increasing population often involves the use of pesticides and fertilizers in the crop fields. Pesticides are poisons and thus are detrimental to aquatic life forms, affect ecosystem integrity and disrupt its functioning (Parveen and Faisal 2002). Many pesticides are persistent and

others degrade slowly and have a residual effect once it enters into the environment. Bangladesh uses huge amount of pesticides and fertilizers in crop fields. These pesticides ultimately find their way into the aquatic ecosystems. At present, the pesticide use in the country amounts to 13,000 mt (Banglapedia 2012). Pesticides are lethal at higher concentrations to fish and may cause fish mortality when sublethal concentrations may affect the growth, survival and reproduction of fish having adverse impacts on fish and fisheries (Pingali and Gerpacio 1997). The inundated floodplains of Bangladesh during monsoon are the seasonal habitat for the many indigenous fishes. The residual effects of pesticides applied to these floodplains for agricultural purpose before monsoon lead to the fish mass mortality (Rohar and Crumrine 2005).

Discharges from industries and municipal sewerage: Discharges of untreated sewerage



Figure 15. Untreated industrial effluents and municipal discharge

© IUCN/ Mohammed Noman

waters and industrial effluents into the water bodies have been a concern for localized aquatic pollution resulting in fish kills in many instances. Disappearances of fish from many water bodies have been attributed to pollution of water bodies by industries in many areas of the country. Rivers surrounding and nearby the townships are highly contaminated. The effluents from dyeing, leather, chemical, paper, etc., industries are major sources for aquatic pollution in Bangladesh. Similarly, municipal sewerage discharges also into open waters also pose serious threat to freshwater fishes locally. The most polluted rivers in Bangladesh include the Buriganga, Turag, Shitalakkha, Balu, Meghna, Karnaphuli, Surma, Dhaleswari, etc. (Figure 15)

3.7.4. Introduction of Exotic Fish

Over the last six decades, at least, 24 fishes have been introduced in Bangladesh, mostly for aquaculture purpose (Rahman 2005, Hossain 2014). Almost all the introduced species were meant only for captive cultivation in closed pond systems, but nobody succeeded to maintain the fish in captivity. During monsoon and/or flood the escapees easily found their way to the rivers and floodplains throughout the country. Sometimes, introduced or escaped fish may become established in natural and semi-natural ecosystems or habitats as an invasive alien species and thus could be an agent of ecological catastrophe. All over the world the exotic species is recognized as an agent for the loss of indigenous biodiversity. Alteration of species abundance and ecosystem caused by exotic invasive animals and plants influence the functioning and overall health of the affected ecosystems.

The impacts of introduced fish species on local fishes have not been assessed properly in Bangladesh as there is a serious lack of information to arriving at any conclusion. Hossian (2014) have compiled the potential risks of the exotic fishes on our local biodiversity. These include predation by the exotic species, changes and disruption in food chain, transmission of diseases, competition for food and shelter, etc. In

addition, a large number of ornamental fishes have also been imported in Bangladesh and many of them are locally bred. Although, there is less risk on local fishes from ornamental fish, however, careless dealing with those may lead to a catastrophe.

3.7.5. Impact of Climate Change on Freshwater Fishes

The impacts and expected consequences of climate change are uncertain and often fall outside the time window used for Red List assessments. Recent work examining the potential consequences of climate change across a range of global habitats suggests that floods or exceptionally large seasonal pulses and droughts or prolonged dry spells can cause population declines, reduced abundance and altered species composition (Ashely *et al.* 2007). As a result, changes in variability could select for generalist species or those with the ability to rapidly colonize defaunated habitats and possibly lead to a loss of locally adapted ones (Poff *et al.* 2001). Small increases (1–2 °C) in temperature may be sufficient to have sub lethal effects on tropical fish physiology and reproduction in particular, when they are combined with the possible effects of an altered hydrologic regime. It is evident that the annual growth patterns and spawning dates of some carps correspond to local flow regimes. There is a serious lack of information on the climate change impacts on freshwater fishes of Bangladesh. However, several authors have listed the predicted impacts on our local fishes as follows: recruitment failure, poor growth, increased disease prevalence, etc. (NAPA 2005, Mollah 2011).

CONCLUSION AND RECOMMENDATIONS



4. CONCLUSION AND RECOMMENDATIONS

The ultimate purpose of Species Red Listing is to contribute towards the conservation of faunal and floral species so that these do not become extinct in future. Updating of Red List in Bangladesh is again a milestone towards Bangladesh's efforts for conservation of biodiversity. It is an expectation of the present Red Listing that it would be utilized and consulted in country's conservation planning, while the policy makers and conservation managers are well informed about the status of the freshwater fishes of Bangladesh. It is also expected that it will create a new momentum in biodiversity conservation in the country. For effective use of this document and conservation of the country's biodiversity the following recommendations are put forward:

4.1. General Recommendations

- Effective dissemination of this Red List Book for informing entire range of stakeholders remains an imperative. Various awareness raising tools, including holding of workshops, use of electronic and print media, discussion meeting with decision makers, policy makers, civil and professional societies are to be organized to informing them on the current state of Bangladesh freshwater fishes, its future implications and need for undertaking conservation activities on priority basis.
- Efforts should also be taken to include Red List information in school, college and university course curricula to inform the students about the Red List and conservation needs of the country's biodiversity.

4.2. Legal and Policy Recommendations

- The present Fish Conservation Act of the country does not include the Threatened species for conservation. It is strongly suggested that the current fish acts need to be amended with provision for conservation and management of the threatened species.
- Wildlife (Conservation and Security) Act, 2012 also needs to be amended with more focus on threatened fish species.
- Sectoral policies on fish should also put more emphasis on the conservation of fishes, particularly the conservation of threatened species.

4.3. Conservation Measures

- It is highly recommended to draw up and implement a Species Action (Recovery) Plan for all Bangladesh freshwater fish species.
- The loss and degradation of aquatic habitats, particularly that of rivers need to be prevented.
- An elaborate program should be taken to rehabilitate the degraded aquatic habitats through re-excavation of water bodies, opening of connective channels, construction of fish passes, etc.
- There is a need for the strict imposition of ban on the discharge of untreated industrial effluents and municipal discharge into aquatic habitats.
- Use of long persistent pesticides must be banned. A guideline for the use of pesticides must be developed and implemented with

focus on environmental and fisheries protection.

- A strong water quality monitoring scheme should be developed on aquatic pollution and water quality.
- Further conversion of wetlands must be stopped and adequate fish passes must be constructed while implementing any flood protection projects or construction of roads and highways.
- Any development interventions must be screened for its impacts on fishes and other aquatic organisms, and provision for corrective measures must be strictly maintained.
- More fish sanctuaries must be established, particularly in the northwest, northwest and north-central regions of the country and these should be effectively be managed and maintained.
- Massive awareness raising on the impacts of destructive fishing, like dewatering, use of destructive gears, etc. should be conducted and strong monitoring against these should be taken.

4.4. Recommendations on Future Works

- It will be necessary to periodically update the Red List of the country on a regular basis, particularly that of freshwater fishes in order to accommodate the accrued knowledge and information and also in response to the changing scenarios.
- There is also an urgent need for the preparation of Red List Index on freshwater fishes with a view to monitor the progress towards reducing the losses of freshwater fishes
- The present assessment was constrained by poor or lack of quantitative information, particularly data on population size and trend, distribution and precise threats. Therefore, future studies and researches in fisheries need to focus

on these.

- An elaborate monitoring protocol should be undertaken for the threatened fish species in order to track the changes in population of the threatened fishes.

4.5. Expected Application of the Assessment

- This assessment exercise has gathered huge amount of data on species distribution, population trend, ecology, threats, habitats, etc. These data could be easily available from website of IUCN and thus could be used as an information source for use by the academics, conservation planner and researchers.
- This assessment could be considered as key resources for policy makers, conservation managers and development planners.
- The Red Book could be used for the following purposes,
 - Conservation planning and priority setting for fish conservation
 - Guiding policy formulation for conservation and management
 - Influencing future allocation for conservation in the country
 - Education and public awareness about biodiversity conservation



SPECIES PROFILE



CRITICALLY ENDANGERED
< CR >



Schistura corica

Species ID: FI0124

CRITICALLY
ENDANGERED
<CR>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	BALITORIDAE

Scientific Name: *Schistura corica* (Hamilton, 1822)

English Name: Polka Dotted Loach

Bengali Name: Khorka, Khorki

Synonym/s: *Cobitis corica* Hamilton, 1822

Schistura punctata McClelland, 1839

Cobites cinerea Swainson, 1839

Nemachilus corica Shaw and Shabbeare, 1937

Noemacheilus corica Menon, 1987

Taxonomic Notes: Hamilton (1822) described the species as *Cobitis corica*. In recent update, Kullander *et al.* (1999) placed the species under the genus *Schistura*.

Assessment Information

Red List Category & Criteria: CR B1ab(i,ii,iii,iv)+2ab(i,ii,iii,iv) ver 3.1

Justification: A large number of *Schistura corica* was observed by Rahman (1989) in the two locations - Rangapani Khal of Sylhet (6 km NW of Jaintapur on Sylhet-Shillong highway) and the river Jagat (7 km east of Rangpur on Badargonj highway). However, since then, there was no published record of the species in Bangladesh. In 2009, the fish was observed in the Someswari in Susong Durgapur, Netrokona (one incidence, 25.03.09 pers obs). The species was not recorded from anywhere else in Bangladesh and almost no information is available about it. Given the threats facing the location where the fishes are found (ever increasing human settlement, agricultural and industrial pollution, overfishing, prolonged drought causing seasonal drying out of river Someswari etc.), it is inferred that its population will further



Schistura corica

© Md. Mizanur Rahman

decline with a possibility of total extinction and hence the species is assessed as Critically Endangered.

Date Assessed: 20 November 2014

History

Regional Status: This taxon has been assessed as Data Deficient (IUCN Bangladesh 2000).

Geographic Range

Global: It occurs in Afghanistan, Bangladesh, India, Nepal and Pakistan (Rahman 1989, Talwar and Jhingran 1991).

Bangladesh: The species occurs in the River Someswari, Susong Durgapur, Netrokona (Rahman 1989).

EOO: 625 km²

AOO: 236 km²

Population

Generation Time (Length): Unknown.

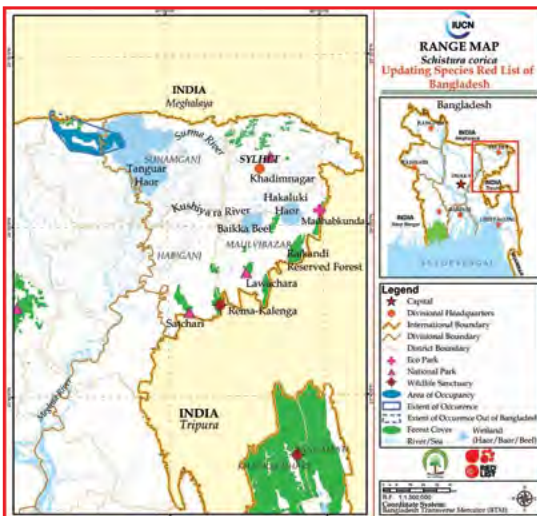
Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Its preferred habitat is clear waters of hill streams with sandy bottom. It is also available in large river with high, turbid monsoon flow and with diverse substrate consisting of sand, mud, gravel, pebble, cobble, and boulders. It feeds on insect larvae, shrimps, aquatic vegetations, etc.

Assessor: Mostafa Ali Reza Hossain



Neoeucirrhichthys maydelli

Species ID: FI0135

CRITICALLY
ENDANGERED

<CR>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE

Scientific Name: *Neoeucirrhichthys maydelli* Banarescu and Nalbant, 1968

English Name: Goalpara Loach

Bengali Name: Not Known

Synonym/s: Not Known

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: CR B1ab(i,ii,iii,iv)+2ab(ii,iii,iv) ver 3.1

Justification: *Neoeucirrhichthys maydelli* was recorded by Rahman (1989) from three locations: Sari River and Lubachhara in Sylhet and Tangan River in Thakurgaon. However, since then there was no sighting record in Bangladesh. In 2009, the fish was observed in the Someswari in Susong Durgapur, Netrokona (one incidence, 25.03.09 pers obs). Given the threats facing the location where the fishes are found it can be inferred that its habitat quality will deteriorate more and population will further decline with a possibility of total extinction of the species. Therefore, *N. maydelli* is assessed as Critically Endangered.

Date Assessed: 30 November 2014

History

Regional Status: This taxon has been assessed as Data Deficient (IUCN Bangladesh 2000).



Neoeucirrhichthys maydelli

© Md. Mizanur Rahman

Geographic Range

Global: It occurs in Bangladesh, India and Nepal (Rahman 1989, Sherstha 2008, Talwar and Jhingran 1991).

Bangladesh: The fish has been recorded from the Sari River and Lubachhara in Sylhet and Tangan River in Thakurgaon (Rahman 1989). Also reported from Someswari river in Susong Durgapur, Netrokona (pers. obs.).

EOO: 624 km²

AOO: 237 km²

Population

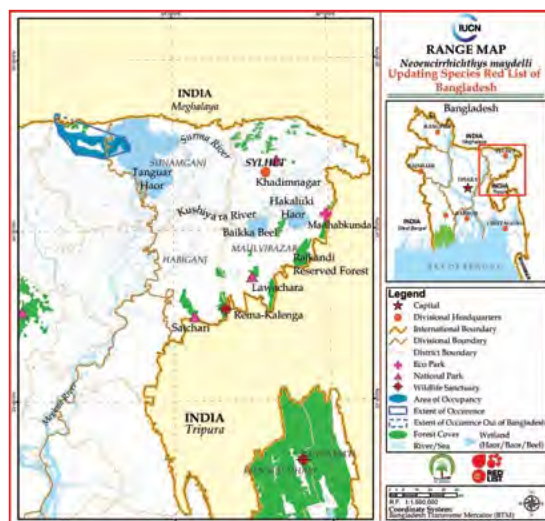
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It occurs in shallow slow moving streams with sandy, silty and gravel bottom. This is also found in flooded wetland (Sherstha 2008).



Assessor: Mostafa Ali Reza Hossain

Labeo boga

Species ID: FI0086

CRITICALLY
ENDANGERED
<CR>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Labeo boga* (Hamilton, 1822)

English Name: Boga Labeo

Bengali Name: Bhangon, Bhangon Bata

Synonym/s: *Cirrhina boga* Hamilton, 1822

Cyprinus boga Hamilton, 1822

Gobio boga Hamilton, 1822

Labeo boga Day, 1878

Labeo boga Shaw and Shebbeare, 1937

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: CR B2 ab(ii,iii,iv) ver 3.1

Justification: *L. boga* is known from few locations of the country and is rare within its habitat ranges (Rahman 2005). Although, the estimated Extent of Occurrence (29,884.84 km²) and Area of Occupancy (855.33 km²) are above the upper threshold values for any IUCN Threatened Category, however, a number of threats, including habitat loss, over exploitation and pollution, probably contributing to its apparent population decline. The fish was earlier assessed as Critically Endangered in the country (IUCN Bangladesh 2000) and since then, there has been no improvement in its abundance nor the threats were removed or reduced. Hence, the Threatened Category Critically Endangered is retained.

Date Assessed: 25 August 2014

History

Regional Status: The species has been considered as



Labeo boga

© Md. Mizanur Rahman

Critically Endangered (CR) earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *L. boga* is known to occur in Bangladesh, India, Myanmar, Nepal and Pakistan (Menon 1999).

Bangladesh: This fish has been recorded from only few locations in Bangladesh, including Padma River (Hossain and Haque 2005), Baral River (Flowra *et al.* 2013.), Chalan Beel (Hossain *et al.* 2009) and Kanchan River, Dinajpur (Rahman 2005).

EOO: 29,885 km²

AOO: 855 km²

Population

Generation Time (Length): Unknown.

Total Population: Empirical data on the total population on the species are not currently available. However, the fish is rarely found in fish catches.

Trend: Unknown.

Habitat and Ecology

It is a freshwater species, inhabits large rivers and their tributaries, above tidal influence (Menon 1999). This fish spawns in flooded rivers (Talwar and Jhingran 1991). It is a potamodromous benthopelagic species, feeds on phytoplankton, plants and crustaceans (Rahman and Ruma 2007).

Assessor: M. Niamul Naser

Associate Assessor/s: Gawsia Wahidunessa Chowdhury



Labeo nandina

Species ID: FI0093

CRITICALLY
ENDANGERED
<CR>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Labeo nandina* (Hamilton, 1822)

English Name: Nandi Labeo

Bengali Name: Nandil, Nandi, Nandina

Synonym/s: *Cyprinus nandina* Hamilton, 1822

Rohita nandina Valenciens, 1842

Labeo nandina Day, 1877

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: CR A2abcd ver 3.1

Justification: Although, distribution of *Labeo nandina* in the country has been stated to be limited in the rivers and beels of the northeastern region, particularly in the Greater Sylhet and Mymensingh Districts in the past (Rahman 2005, Islam 2007), however, in the recent decades the fish has rarely been seen in the area. During 1960' this fish was fairly common, but it was found rare during 90's (Tsai and Ali 1987). The population further declined subsequently due to habitat loss and over exploitation and in 2005 the fish was observed occasionally (Rahman 2005). Mahalder and Mustafa (2011) did not find the fish during their fish catch monitoring in a large number of beels in the Sunagonj and Sylhet areas. There are no reports on its occurrence in the recent past. The estimated Extent of Occurrence (17,182.32 km²) and Area of Occupancy (279.14 km²) qualify the fish for IUCN Red List Threatened Endangered Category. However, literature indicates its possible extinction from the country. Considering its near absence in the country it has been assessed as Critically Endangered Category.



Labeo nandina

© Bakalial Bikramaditya

Date Assessed: 25 January 2015

History

Regional Status: The species has been considered Critically Endangered earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Labeo nandina* is known to occur in Bangladesh, India and Myanmar (Talwar and Jhingran 1991).

Bangladesh: It is found in freshwater rivers and other wetlands (*beels* and *haors* clear sluggish water pools) of Greater Mymensingh and Sylhet Districts of Bangladesh (Rahman 2005).

EOO: 17,182 km²

AOO: 279 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Highly declined.

Habitat and Ecology

Labeo nandina inhabits freshwaters and occurs in rivers and beels and haors. This fish is an omnivore and feeds on worms, insects and detritus.



Assessor: M. Niamul Naser

Tor tor

Species ID: FI0113

CRITICALLY
ENDANGERED
<CR>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Tor tor* (Hamilton, 1822)

English Name: Tor Mohsheer

Bengali Name: Mohashol, Mohsheer

Synonym/s: *Cyprinus tor* Hamilton, 1822

Tor hamiltoni Gray, 1834

Barbus megalepis McClelland, 1839

Barbus hexastichus McClelland, 1839

Barbus tor Day, 1878

Tor tor Misra, 1959

Tor tor Sen and Jayaram, 1982

Taxonomic Notes: The species *Cyprinus tor* was first described from the Mahananda River by Hamilton (1822). He included the fish under the genus *Cyprinus* with two species, i.e., *Cyprinus putitora* and *C. mosa*. Misra (1959) renamed the species as *Tor tor* which is still a valid name.



Tor tor

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: CR A2acd ver 3.1

Justification: The species *T. tor* has been assessed as Critically Endangered (CR). Its population reduction is inferred over 80% during the last ten years due to over exploitation, habitat destruction, water pollution and other anthropological activities. Recent faunal survey, personal interview and personal visits confirmed that the population has seriously declined and at present it is very rare in fish catches (Latifa *et al.* 2014, Naher 2014, per. obs.). Construction of dams in the up streams, extraction of sand, pebbles and rocks from the river bed are seriously destructing its feeding and spawning ground.

Date Assessed: 21 January 2015

History

Regional Status: It was assessed as Critically Endangered (IUCN Bangladesh 2000).

Geographic Range

Global: It is endemic to Asia and occurs in Bangladesh, India, Malaysia, Nepal, Pakistan, Sri Lanka, and some south east countries of Asia (Shrestha 1990). It has also been reported from Malay Peninsula and the larger Indonesian Islands across Sumatra, Borneo and Java (Menon 1992, Roberts 1999).

Bangladesh: In Bangladesh this mahseer occurs in Someshwari River at Netrokona, Karnaphully reservoir in Chittagong Hill Tracts, Mahananda River in Dinajpur and Para River in Sunamganj (Rahman 2005). It is occasionally found in Kaptai Lake in Rangamati.

EOO: 59,301 km²

AOO: 1,225 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population is declining. Now a days, it is rarely found in its natural habitats in Bangladesh (Naher 2014).

Trend: Declining.

Habitat and Ecology

T. tor inhabits riverine pools and lakes and also in streams with good flows and a rocky bottom. Rahman (2005) stated that mahseer is an omnivorous fish, feeds on filamentous algae, submerged plants, chironomid larvae, water beetles and crustaceans.

Assessor: Md. Sagir Ahmed



Channa barca

Species ID: FI0003

CRITICALLY
ENDANGERED

<CR>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	CHANNIDAE

Scientific Name: *Channa barca* (Hamilton, 1822)

English Name: Barca Snakehead

Bengali Name: Pipla, Pipla Shol, Tila, Tila Shol, Pipla Ool, Tia Shol, Bakka, Tati

Synonym/s: *Ophiocephalus barca* Hamilton, 1822
Ophicephalus nigricans Cuvier, 1831

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: CR B1ab(i,ii,iii,iv) ver 3.1

Justification: This species was recorded from the Dekhar Haor of Sunamganj District located in the north-eastern region of the country (Rahman 2005). The estimated EOO and AOO are 175.67 km² and 166.23 km², respectively. Besides, this species is limited to a single location and there are several threats like pollution and low quality habitat. Moreover, the declination of EOO and AOO of this species can be inferred from increased agricultural pollution and habitat destruction. Data are not available on its population size and reduction. Though EOO and AOO of this species are greater than the thresholds of Critically Endangered category, the species is assessed as Critically Endangered based on its recent disappearance in the wild.

Date Assessed: 25 June 2014

History

Regional Status: The taxon was assessed Critically Endangered (CR) (IUCN Bangladesh 2000).



Channa barca

© Md. Mizanur Rahman

Geographic Range

Global: Bangladesh, Indian (Goal Para, Assam; Nagaland) and Nepal (Rahman 1989, Talwar and Jhingran 1991).

Bangladesh: Large rivers, beels and haors of the greater Sylhet and Mymensingh-Districts (Rahman 1989).

EOO: 176 km²

AOO: 166 km²

Population

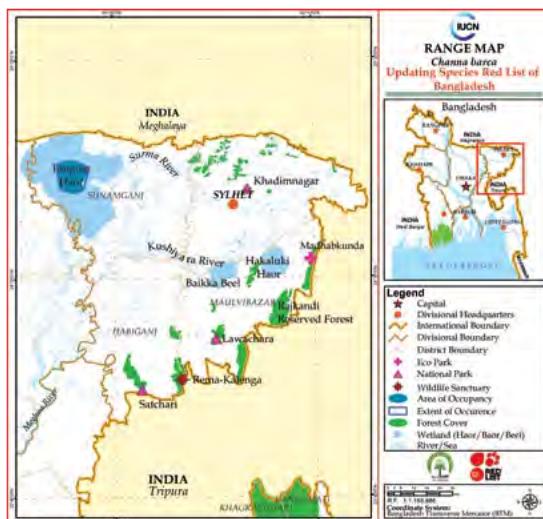
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

C. barca is a carnivorous, benthopelagic, potamodromous species. It is a seasonal breeder and travel into mustard fields to eat the flowers during winter months. (Rahman, 1989)



Assessor: Ismot Ara

Ompok pabo

Species ID: FI0153

CRITICALLY
ENDANGERED
<CR>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SILURIDAE

Scientific Name: *Ompok pabo* (Hamilton, 1822)

English Name: Pabo Catfish

Bengali Name: Pabda, Kala Pabda

Synonym/s: *Silurus pabo* Hamilton, 1822

Callichrous pabo Day, 1878

Ompok pabo Misra, 1976

Taxonomic Notes: None



Ompok pabo

© Mostafa A R Hossain

Assessment Information:

Red List Category & Criteria: CR A2bc ver 3.1

Justification: *Ompok pabo* is extremely rare among other species under the genus *Ompok* present in Bangladesh. The occurrence of this species is limited to few locations with significant threats. Meanwhile, recent field visits, expert consultation and local catch suggest that the wild population of this species has reduced to about 80% during the last two decades due to massive deterioration of its habitat quality (M. S. Ahmed and M A R Hossain pers. comm.). Therefore, this species is assessed as Critically Endangered.

Date Assessed: 20 September 2014

History:

Regional Status: This taxon has been considered as Endangered (IUCN Bangladesh 2000).

Geographic Range

Global: *Ompok pabo* has been recorded from Bangladesh,

northeast India, Myanmar and Pakistan (Rahman and Chowdhury 2007).

Bangladesh: This species is reported from the Chalan Beel and Medha Beel in the Northern region, the Surma, Kushiara and Manu River of Sylhet Division. It is also found to occur in the Baikka Beel and Tanguar Haor of Sunamgonj District (Chakraborty and Nur 2009, Ahmed *et al.* 2015).

EOO: 29,962 Km²

AOO: 5,962 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

This species occurs in streams and rivers of all sizes with sluggish to moderate currents. Found in quiet, shallow, often-muddy water, in sandy streams, rivers. It occurs in canals, beels and inundated fields (Rahman and Chowdhury 2007). Moves into freshly inundated habitats during flood season. It is omnivorous and predatory in nature, feeds on crustacea larvae, fish fry, zooplankton, algae and small portion of sand and mud. Prefers to swim around shallow and often muddy waters. It spawns during the monsoon, extending from June to the middle of August.



Assessor: Md Abdur Rob Mollah

Associate Assessor/s: Md. Mizanur Rahman

Bagarius bagarius

Species ID: FI0161

CRITICALLY
ENDANGERED
<CR>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Bagarius bagarius* (Hamilton, 1822)

English Name: Gangetic Goonch, Devil catfish, Fishbase name: dwarf Goonch

Bengali Name: Baghair, Baghari, Bagh mach

Synonym/s: *Pimelodus bagarius* Hamilton, 1822
Bagarius yarelli Day 1878

Taxonomic Notes: Taxonomic confusions led to the misidentification of the *Bagarius bagarius* (small sized fish, lives in streams) and *Bagarius yarelli* (large sized fish inhabiting large rivers). Most authors in Bangladesh considered large sized one as *B. bagarius* and most data are available on the large sized one. The IUCN Red list (2000) assessed the large one as *B. yarelli* and categorized as Critically Endangered species. However, the major compilation of Bangladeshi fish, like Rahman (2005) and Siddiqui *et al.* (2007) described the large one as the *B. bagarius*.

Assessment Information

Red List Category & Criteria: CR A2cd ver 3.1

Justification: Earlier Baghair (*Bagarius bagarius*,) was fairly abundant in large and medium rivers, but due to habitat squeeze, caused by large scale siltation and over exploitation the abundance of the species declined drastically by 1990s (pers. obs.). In this situation, the species was enlisted as Critically Endangered in the IUCN Red List of Bangladesh (2000). Since then, the declining trend in its population is continuing, albeit at a slower rate and the cumulative population decline would be around 80% during the last 25 years (3 generation time). In recent studies, in most sites the species has been recorded as rare (NACOM 2010a, 2010b). Presently, there is no specific conservation activities targeting the species. However, habitat loss and its export potential is likely to continue to exert pressure on the species in the future, contributing to further reduction of its population.



Bagarius bagarius

© Md. Mizanur Rahman

The Extent of Occurrence and Area of Occupancy, however, do not exceed the threshold values (82,771 km² and 9,431 km² respectively) of any threatened category and there is no known fragmentation of its habitat. However, based on rapid decline in population and serious reduction in habitat qualities, the species is assessed as Critically Endangered.

Date Assessed: 22 September 2014

History

Regional Status: Due to large scale population decline the species was enlisted in IUCN Red list for Bangladesh as Critically Endangered species. (IUCN Bangladesh 2000)

Geographic Range

Global: It is found in South and South-east Asia, including Bangladesh, Cambodia and Laos, India, Indonesia (Sumatra, Borneo and Java), Myanmar, Pakistan (<http://www.planetcatfish.com/>) and also in Vietnam (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: *Bagarius bagarius* occurs in large river systems of the country and has been reported from Padma, Jamuna, Meghna, Daleswari, Bangali, Baral, Choto Jamuna, Surma, Kushiya, Manu Baral, Mahananda, Kangsha, Brahmaputra, Titas and Karnafully Rivers and was also reported from Chalan Beel and Kaptai Reservoir (Ahmed 2002, Hossain *et al.* 2009, Alam 2007, Galib *et al.* 2012).

EOO: 82,772 km²

AOO: 9,432 km²

Population

Generation Time (Length): Generation time could be estimated as 7-8 years (<http://www.Planetcatfish.com>).

Total Population: Unknown.

Trend: Anecdotal information, our long time field observation and expert consultation suggest that the species shows a continued decline in population abundance.

Habitat and Ecology

Bagarius bagarius prefers fast flowing waters and lives under stones and bog logs and it is carnivorous and predatory fish feeds on small fishes, prawns, frogs, etc. *Bagarius bagarius* lives in large rivers, particularly in deep areas. It is voracious and predatory. It usually feeds on small fishes, but also preys frogs and shrimps (Rahman 2005).

Assessor: Md. Abdur Rob Mollah



Sisor raddophorus

Species ID: FI0174

CRITICALLY
ENDANGERED
<CR>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Sisor raddophorus* Hamilton, 1822

English Name: Sisor Catfish

Bengali Name: Chenua; Cheuna; Sisor, Sai Sore

Synonym/s: *Sisor rhabdophorus* Hamilton, 1822

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: CR B2ab(i,ii,iii) ver 3.1

Justification: *Sisor raddophorus* was considered as Critically Endangered (CR) by IUCN Bangladesh (2000). Its Area of Occupancy (AOO) is restricted in two small rivers in northern Bangladesh. Siltation of upland rivers, lifting of stones and sands from river beds and construction of dam are the major threats for this species. These threats still persist and there is no sign of its recovery. Hence, it is assessed as Critically Endangered.

Date Assessed: 21 February 2015

History

Regional Status: Considered as Critically Endangered by Red List of IUCN Bangladesh 2000.

Geographic Range

Global: It occurs in Bangladesh, India, Pakistan and Nepal (Talwar and Jhingran 1991, Shrestha 1994, Rahman 2005).

Bangladesh: It is found in the Dharla River of Rangpur District (Rahman 2005). It is also reported from Mahananda



Sisor raddophorus

© Mostafa A R Hossain

River in the North Bengal (Jayaram and Singh 1977).

EOO: 8,989 km²

AOO: 67 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

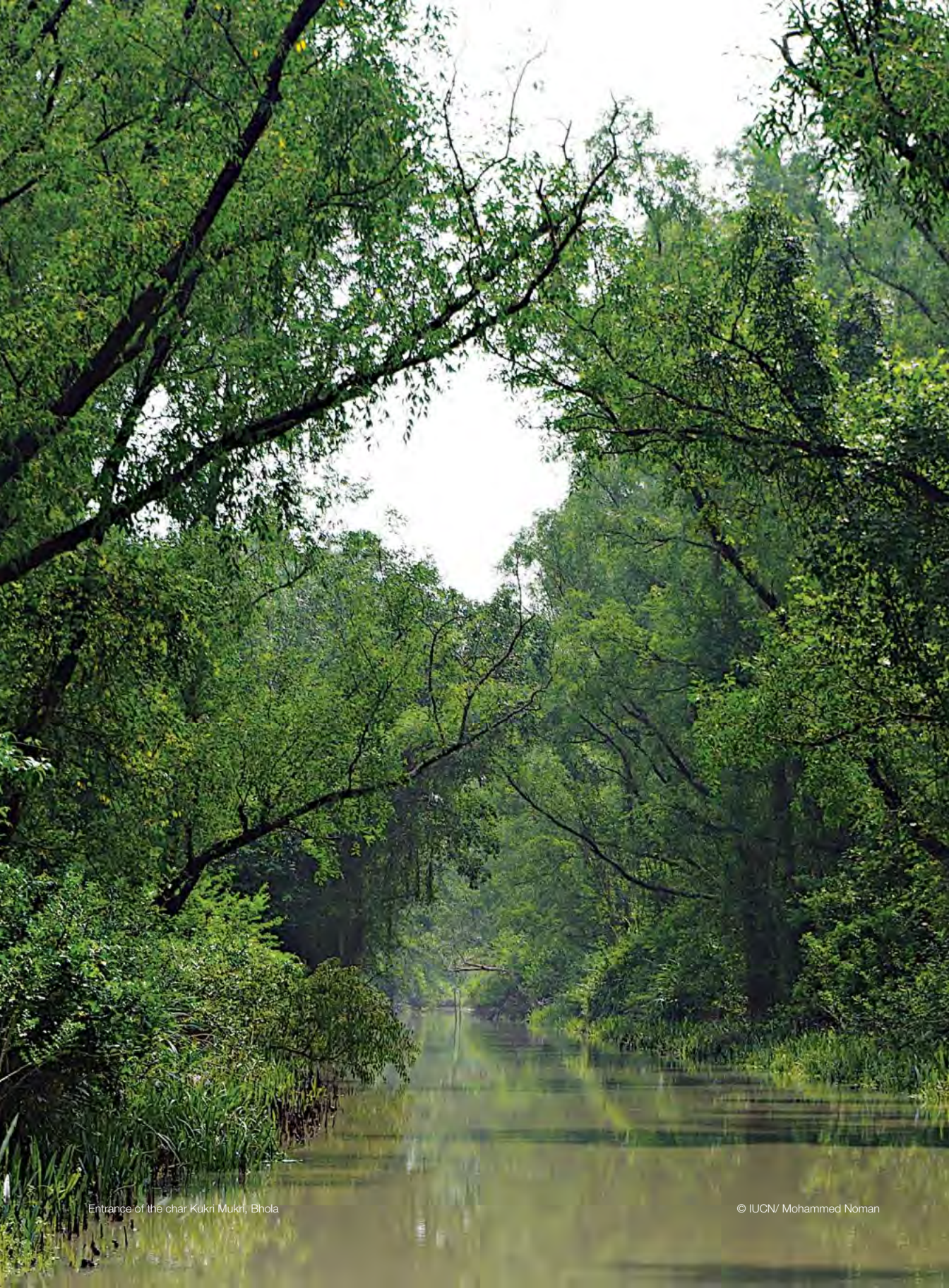
Trend: Unknown.

Habitat and Ecology

This species prefers to inhabit in freshwater system (Ng 2010), primarily at the base of the Himalayas (Talwar and Jhingran 1991). It is demersal and potamodromous. It inhabits swift rivers with a substrate of sand and gravel and feeds on bottom-dwelling organisms (Ng 2010, Rahman and Akter 2007). It exhibits adaptations for life at the bottom of high gradient low land or hill streams (IUCN Bangladesh 2000).



Assessor: Md. Monirul Islam



A large, solid red teardrop-shaped graphic is centered on the page. It has a rounded top-left corner and a straight vertical edge on the right side. The text is centered within this shape.

ENDANGERED
< EN >



Schistura scaturigina

Specied ID: FI0126

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	BALITORIDAE

Scientific Name: *Schistura scaturigina* McClelland, 1839

English Name: Victory Loach

Bengali Name: Dari

Synonym/s: *Cobitis scaturigina* (McClelland, 1839)

Nemacheilus mugah Day, 1869

Nemachilus shebbeari Hora, 1935

Noemacheilus scaturigina Menon, 1974

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: EN B1ab(i,ii,iii,iv)+2ab(ii,iii,iv) ver 3.1

Justification: Rahman (1989) described the availability of *Schistura scaturigina* in the rivers of Sylhet, Chittagong, Rangpur and Dinajpur. During 2009-2013, the fish was observed in the Someswari in Susong Durgapur in Netrokona, Jafflong in Sylhet and in the Old Brahmaputra, under Mymensingh Sadar Upazila (Ahmed and Rahman 2014, pers. obs). Almost no information is available on its population and distribution. Given the threats facing the habitat/location where the fishes are found it is inferred that its habitat quality will deteriorate more and population will further decline with a possibility of total extinction and hence *S. scaturigina* is assessed as Endangered.

Date Assessed: 15 November 2014

History

Regional Status: This taxon has been assessed as Not



Schistura scaturigina

© Sagir Ahmed

Threatened (NO) (IUCN Bangladesh 2000).

Geographic Range

Global: It occurs in Bangladesh, Bhutan, India and Nepal (Rahman 1989, Menon 1999).

Bangladesh: The Someswari in Susong Durgapur in Netrokona, Jafflong in Sylhet and the Old Brahmaputra under Mymensingh Sadar Upazila (Rahman 1989)

EOO: 14,193 km²

AOO: 871 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It inhabits streams with gravelly bottom. Breath sometimes atmospheric air by gulping at the surface and absorbing oxygen at the gut. It feeds on worms, insect larvae and aquatic vegetation. It breeds during April-June; fertilized reddish eggs become attached with aquatic plants.



Assessor: Mostafa Ali Reza Hossain

Schistura sikmaiensis

Species ID: FI0122

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	BALITORIDAE

Scientific Name: *Schistura sikmaiensis* (Hora, 1921)

English Name: Not known.

Bengali Name: Not known.

Synonym/s: *Nemachilus sikmaiensis* Hora, 1921

Noemacheilus sikmaiensis Menon, 1987

Taxonomic Notes: Hora (1921) described *Nemachilus sikmaiensis* from Sikmai stream (Chindwin basin), Manipur. Kottelat (1990) considers the species under genus *Schistura*. Needs taxonomic revision of this species based on molecular taxonomy.



Schistura sikmaiensis

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: EN B1ab(i,ii,iii,iv)+2ab(i,ii,iii,iv) ver 3.1

Justification: *Schistura sikmaiensis* was observed by Rahman (1989) in the Piyang River in Sylhet. The author also described the probable presence of the species in the hill streams of Dinajpur and Chittagong. During the last 10 years the fish has only been observed in two locations in the river Old Brahmaputra in Mymensingh Sadar and in the Someshwari, Susong Durgapur, Netrokona (three incidences – (17.03.09, 25.03.09 and 17.04.09 pers obs). The species has not been recorded from anywhere else in Bangladesh and very little information is available about it. If the geographical location is considered, the Extent of Occurrence is less than 5,000 km² and Area of Occupancy is less than 500 km². Given the threats facing the locations where the fishes are found (ever increasing human settlement, agricultural and industrial pollution, overfishing etc.), it is inferred that its population will further

decline and *S. sikmaiensis* is potentially threatened and hence, it is assessed as Endangered. However, further information on threats to the species and its distribution is required.

Date Assessed: 20 November 2014

History

Regional Status: Data Deficient (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India, Myanmar and Yunnan in China (Rahman 1989, Kottelat 1990, Ahmed 2007).

Bangladesh: It recorded from the Matshyarani Fish Sanctuary, the Brahmaputra, Mymensingh Sadar, Mymensingh and the River Someshwari, Susong Durgapur, Netrokona.

EOO: 899 km²

AOO: 103 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It inhabits cool, clear swift-streams with bottom of rocks and boulders. It prefers gravelly bottoms and hides underneath rocks and boulders in swift flowing streams (Ahmed 2007).

Assessor: Mostafa Ali Reza Hossain



Barilius barna

Species ID: FI0066

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPINIFORMES	CYPRINIDAE

Scientific Name: *Barilius barna* (Hamilton, 1822)

English Name: Barna Baril

Bengali Name: Koksa, Bani Koksa

Synonym/s: *Cyprinus barna* Hamilton, 1822

Opsarius barna Hamilton, 1822

Opsarius fasciatus McClelland, 1839

Opsarius latipinnatus McClelland, 1839

Barilius barna Gunther, 1868

Barilius jayarami Barman, 1985

Taxonomic Notes: None



Barilius barna

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: EN A2acde ver 3.1

Justification: *Barilius barna* occurs in hill streams and large rivers, and is fairly to less abundant within its habitat ranges (Rahman and Ruma 2007). In spite of its wide distribution, the population of the species has declined by about 75% during the last 20 years (Ahmed et al. 2015). In the backdrop of the continued population decline, there are several known widespread threats to the species, including habitat loss and over-exploitation, which are unlikely to be reduced in near future and thus the species is under a potential risk of extinction. The taxon *B. barna* is, therefore, considered as Endangered.

Date Assessed: 15 January 2015

History

Regional Status: *Barilius barna* has been considered as Data Deficient (IUCN Bangladesh 2000).



Geographic Range

Global: The species has been recorded from Bangladesh, India, Myanmar and Nepal (Rahman and Ruma 2007).

Bangladesh: The species is found in the Tangon River of Thakurgaon and streams and canals of the River Jamuna. The fish was also reported from the Korotoa, Atrai, Brahmaputra, Jamuna and the Padma Rivers. (Hossain and Haque 2005, Rahman and Akhter 2007, Rahman and Ruma 2007). It is also found in the Sangu River of Bandarban (Ahmed et al. 2015).

EOO: 90,242 km²

AOO: 8,187 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is unknown. However, it has been reported fairly common in Tangon River (Rahman and Ruma 2007). In contrast, in a recent study the species was reported to be less abundant (Ahmed et al. 2015).

Trend: The species shows a declining trend. A recent field study reports about 75% decline in its abundance within its habitat range (Ahmed et al. 2015).

Habitat and Ecology

The fish inhabits freshwater and found in clear hill streams and large rivers with gravelly bottom. It is a voracious eater and bottom dwelling fish and feeds on other little fishes and aquatic animals, etc. (Rahman and Ruma 2007).

Assessor: Md. Mizanur Rahman

Barilius bendelisis

Species ID: FI0067

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Barilius bendelisis* (Hamilton, 1807)

English Name: Hamilton's Baril, Hill Trout

Bengali Name: Joia, Hiralu, Tila, Chedra, Koksa

Synonym/s: *Cyprinus bendelisis* Hamilton, 1807

Cyprinus cocsa Hamilton, 1822

Cyprinus chedra Hamilton, 1822

Leuciscus cocsa McClelland, 1839

Leuciscus tila Bleeker, 1853

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: EN A2acde ver 3.1

Justification: In spite of its wide distribution in the country, population abundance of *Barilius bendelisis* probably has reduced to about 70% over the last twenty years due to widespread threats like habitat loss, pollution and over-exploitation (Ahmed *et al.* 2015). Earlier, this species was considered Endangered in Bangladesh and since then no improvement in its population abundance was observed or the threats to the species were removed or reduced. Therefore, the Endangered category for the species is retained.

Date Assessed: 15 August 2014

History

Regional Status: *Barilius bendelisis* has been considered as Endangered (IUCN Bangladesh 2000).



Barilius bendelisis

© Md. Mizanur Rahman

Geographic Range

Global: *Barilius bendelisis* is found throughout India, Bangladesh and Nepal. It was also recorded from Myanmar, Pakistan, Thailand and Sri Lanka (Rahman and Ruma 2007, Eschmeyer and Fricke 2010).

Bangladesh: The species is found in the streams and rivers of Dinajpur, Rangpur, Mymensingh and Sylhet Districts (Rahman and Ruma 2007). It is also found in the Sangu River of Bandarban (Ahmed *et al.* 2015).

EOO: 1,06,881 km²

AOO: 3,152 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on total population is not presently available.

Trend: The species shows a decreasing population trend. A recent field survey indicates its continuous decline throughout its local ranges and the population abundance of this species probably has been reduced to about 70% during the last twenty years (Ahmed *et al.* 2015).

Habitat and Ecology

This fish inhabits freshwater and occurs in streams and rivers along the base of hills with pebbly, sandy and rocky bottom. This species is a benthopelagic and potamodromous fish; feeds on aquatic microorganisms, insects, plants, etc. Prior to spawning females release sex steroids that acts as a potent sex pheromone which stimulates milt production in males (Rahman and Ruma 2007, Ahmed *et al.* 2015).

Assessor: Md. Mizanur Rahman



Barilius tileo

Species ID: FI0043

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Barilius tileo* (Hamilton, 1822)

English Name: Tileo Baril, Morari

Bengali Name: Tila, Tila Koksa, Patharchata, Khorki

Synonym/s: *Cyprinus tileo* Hamilton, 1822

Opsarius tileo Hamilton, 1822

Opsarius brachialis McClelland, 1839

Leuciscus brachialis McClelland, 1839

Barilius menoni Sen, 1976

Taxonomic Notes: None



Barilius tileo

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: EN B2b(ii,iii,iv)c(ii) ver 3.1

Justification: *Barilius tileo* has limited distribution in the northern districts and is rarely seen in fish catches (Latifa 2007). The estimated Area of Occupancy (270 km²) is below the upper threshold for Endangered Category, while that of Extent of Occurrence is 30,256.27 km². Extensive habitat loss and prevailing threats as reflected in the drying up of hill streams and adjoining rivers in the northern parts of the country, the species also shows a continued decline in its population leading to an alarming state (Amin *et al.* 2010, Ahmed *et al.* 2015). Therefore, the species is assessed as Endangered.

Date Assessed: 25 June 2014

History

Regional Status: This species has been considered as Data Deficient earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: The species is known to occur in Bangladesh, India, Myanmar, and Nepal (Latifa 2007).

Bangladesh: The fish is found in the Someswari and Kangsha Rivers in Netrokona District, and the rivers of Dinajpur and Rangpur Districts (Amin *et al.* 2010). It was also reported from the Surma River and its branches in Sylhet and Sunamganj Districts (Mahalder and Mustafa 2013).

EOO: 30,256 km²

AOO: 270 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is unknown. However, the fish is rarely seen in fishers' catches (Latifa 2007, Amin *et al.* 2010).

Trend: The population abundance of *Barilius tileo* has declined greatly over the past few years rendering it to an alarming state (Amin *et al.* 2010, Ahmed *et al.* 2015).

Habitat and Ecology

It inhabits freshwater and found in hill streams and rivers with pebbly or sandy bottom. This benthopelagic species feeds on algae, detritus and other benthic organisms.



Assessor: Balaram Mahalder

Associate Assessor/s: Md. Golam Mustafa

Barilius vagra

Species ID: FI0068

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Barilius vagra* (Hamilton, 1822)

English Name: Vagra Baril, Hill Trout

Bengali Name: Khoksa, Vagra

Synonym/s: *Cyprinus vagra* Hamilton, 1822

Opsarius isocheilus McClelland, 1839

Opsarius piscatorius McClelland, 1842

Leuciseus vagra Day, 1878

Barilius vagra Mirza and Sadiq, 1978

Taxonomic Notes: None



Barilius vagra

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: EN A2acde ver 3.1

Justification: *Barilius vagra* occurs in the hill stream areas of northern Bangladesh (Haque 2007) and shows a continuous population decline. The abundance of the species has reduced to about 75% during the last 20 years due to siltation, drying up of streams and over exploitation (Ahmed *et al.* 2015). The species was earlier assessed as Endangered in Bangladesh. Since then, there has been no reduction in its threats, and in the absence of any conservation measures, the Endangered Category is retained for the species.

Date Assessed: 15 January 2015

History

Regional Status: *Barilius vagra* has been considered as Endangered (IUCN Bangladesh 2000).

Geographic Range

Global: *Barilius vagra* is found in Afghanistan, Bangladesh, India, and Nepal, Pakistan and Sri Lanka (Haque 2007).

Bangladesh: The species has been recorded from Tangon River of Dinajpur and Rangpur and Dhahuki River of Sylhet (Haque 2007). The fish is also found in the Sangu River of Bandarban and the River Brahmaputra-Jamuna, Atrai and Tista River of northern region of Bangladesh. (Rahman and Akhter 2007, Ahmed *et al.* 2015).

EOO: 96,246 km²

AOO: 5,291 km²

Population

Generation Time (Length): Unknown.

Total Population: The total population of the species is not known.

Trend: The fish shows a declining population trend. A recent field survey, through interviews, indicates its continuous decline throughout its local ranges and it was inferred that the population abundance of this species probably has reduced to about 75% during the last twenty years (Ahmed *et al.* 2015).

Habitat and Ecology

This fish inhabits freshwaters and found in in hill streams with bed of rocks and gravels. It is a benthopelagic and omnivorous species and feeds on algae, detritus and other benthic organisms (Haque 2007, Ahmed *et al.* 2015).



Assessor: Md. Mizanur Rahman

Botia dario

Species ID: FI0127

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE

Scientific Name: *Botia Dario* (Hamilton, 1822)

English Name: Necktie Loach, Queen Loach, Bengal Loach

Bengali Name: Rani Mach, Bou Mach

Synonym/s: *Cobitis dario* Hamilton, 1822

Cobitis geto Hamilton, 1822

Diacanthus flavicauda Swainson, 1839

Botia dario Day, 1878

Taxonomic Notes: None



Botia dario

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: EN A2ace ver 3.1

Justification: The population of *Botia dario* has declined significantly across its distribution range due to habitat loss resulting from the use of insecticides in the paddy fields, siltation of upland rivers, lifting of stones and sands from river beds and construction of flood control dams. From recent studies, it can be easily inferred that about 60 % population of this species has been reduced by last twenty years due to above threats (Ahmed and Rahman 2014). The Extent of Occurrence (EOO) and Area of Occupancy (AOO) do not qualify it for any Threatened Category though its habitats are found greatly reduced. Hence, this species is assessed as Endangered.

Date Assessed: 20 September 2014

History

Regional Status: The taxon was considered as Endangered (IUCN Bangladesh 2000).

Geographic Range

Global: *Botia dario* is a native species of Bangladesh, Bhutan and India (IUCN Bangladesh 2000, Siddiqui *et al.* 2007).

Bangladesh: This species is distributed in the northern and eastern regions of Bangladesh, particularly in the Greater Sylhet, Mymensingh, Dinajpur, Rangpur and Chittagong Hill Tracts (Hossain and Haque 2005, Rahman 2005, Rahman and Akhter 2007, Ahmed 2008, Mahsin and Haque 2009, Ahmed *et al.* 2015).

EOO: 83,773 km²

AOO: 6,360 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It inhabits hill streams, rivers and creeks and wetlands. It is carnivorous in habit and known to the snail population in the ecosystem. It prefers rocks or plants to rest.



Assessor: Md. Mizanur Rahman

Botia dayi

Species ID: FI0128

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE

Scientific Name: *Botia dayi* Hora, 1932

English Name: Hora Loach, Botya Loach

Bengali Name: Rani, Betangi

Synonym/s: *Botia geto* Day, 1878

Botia dayi Hora, 1932

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: EN A2ace ver 3.1

Justification: Observations on fish catches in fish landing centres and fish markets reveal that the species is rare and is occasionally seen with *B. dario* and *B. lohachata* (Siddiqui *et al.* 2007). Its population has declined significantly across its local range due to habitat loss, particularly the construction of dams in upstream resulting in silting up of upland rivers, lifting of stones and sands from river beds and construction of flood control dams. From the recent studies, it can be easily inferred that about 70% population of this species has been reduced during last ten years due to these factors (Ahmed *et al.* 2015). Hence, this species is assessed as Endangered.

Date Assessed: 20 January 2015

History

Regional Status: Considered as Data Deficient (IUCN Bangladesh 2000).



Botia dayi

© Md. Mizanur Rahman

Geographic Range

Global: This species has been recorded from Bangladesh, India, and Pakistan (Rahman and Akhter 2007, Talwar and Jhingran 1991).

Bangladesh: It is reported from the Someshwari and Kongsho River of Netrokona, the River Surma, Piyang and Sari of Sylhet, haor area of Sunamgonj District; the Kortoa, Atrai and Mahananda River of Northern region. Also it was recorded from the Old Brahmaputra River (Rahman and Akhter 2007, Rahman *et al.* 2011, Naser *et al.* 2013, Ahmed *et al.* 2015).

EOO: 77,892 km²

AOO: 9,345 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It occurs in sandy and muddy bottoms of ditches, beels, canals, inundated fields and rivers (Rahman and Akhter 2007). It feeds on detritus and insect larvae (Latifa 2007).



Assessor: Md. Mizanur Rahman

Botia lohachata

Species ID: FI0129

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE

Scientific Name: *Botia lohachata* Chaudhuri, 1912

English Name: Y-loach, Reticulate Loach

Bengali Name: Rani, Putul, Beti

Synonym/s: Not known.

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: EN A2ace ver 3.1

Justification: *Botia lohachata* population has declined significantly across its range due to habitat loss particularly due to construction of dams in the upstream rivers, siltation, lifting of stones and sands from river beds and construction of flood control embankments. From the recent studies, it can be easily inferred that about 60% of its population has been reduced during the last ten years due to above threats (Ahmed *et al.* 2015). Hence, this species is assessed as Endangered.

Date Assessed: 20 September 2014

History

Regional Status: It was considered as Endangered (IUCN Bangladesh 2000)

Geographic Range

Global: This species has been recorded from Bangladesh, India, Nepal and Pakistan (Rahman and Ruma 2007, Kottelat 2012).



Botia lohachata

© Md. Mizanur Rahman

Bangladesh: It is reported from the Someshwari and Kongsho River of Netrokona, the River Surma, Piyang and Sari of Sylhet, the Kortoa, Atrai and Mahananda River of Northern region. Also recorded from the Old Brahmaputra River, Jamuna River and from the Padma River (Rahman 2005, Hossain and Haque 2005, Rahman and Akhter 2007).

EOO: 56,252 km²

AOO: 3,475 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It inhabits creeks, rivers and streams with rocky and sandy bottoms. *B. lohachata* is sociable as well as less shy and pugnacious than other *Botia* species. It can burrow under the gravel and likes to hide. Primarily nocturnal and feeds on worms, snails, small fishes, etc.



Assessor: Md. Mizanur Rahman

Crossocheilus latius

Species ID: FI0074

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Crossocheilus latius* (Hamilton, 1822)

English Name: Gangetic Latia, Stone roller, Hill-stream Carp

Bengali Name: Kala Bata

Synonym/s: *Chondrostoma wattanah* Sykes, 1839

Cyprinus gohama Hamilton, 1822

Cyprinus latius Hamilton, 1822

Cyprinus sada Hamilton, 1822

Gonorhynchus brevis McClelland, 1839

Gonorhynchus fimbriatus McClelland, 1839

Gonorhynchus macrosomus McClelland, 1839

Taxonomic Notes: None



Crossocheilus latius

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: EN A2bcd ver 3.1

Justification: The Extent of Occurrence (>20000 sq. km) and the Area of Occupancy (> 2000 sq. km) of this species indicates a wide distribution throughout its local distribution ranges in the country but it is seen occasionally. From the recent collection, local catch observation and local accounts, it can be inferred that the population abundance of *Crossocheilus latius* reduced about 75% over the last twenty years due to widespread destruction of habitats and over exploitation. Therefore, this species has been assessed as Endangered.

Date Assessed: 15 February 2015

History

Regional Status: This taxon has been consider as Endangered (IUCN Bangladesh 2000).

Geographic Range

Global: *Crossocheilus latius* is found in Bangladesh, India, China and Myanmar (Rahman 2005, Oo 2002, Talwar and Jhingran 1991).

Bangladesh: It occurs in the hill streams and some rivers of the country, including Someshwari and Kingsho of Netrokona District, the Piyang of Sylhet District, Padma, Jamuna, Brahmaputra, Korotoa, Atrai and Tista (Hossain and Haque 2005, Rahman 2005, Rahman and Akhter 2007, Galib *et al.* 2013).

EOO: 77,599 km²

AOO: 8,368 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

This fish inhabits streams and rivers. Found over gravel and stony bottoms of mountain streams. It is found in large schools in still or slow-flowing water, on the bottom during the day but it may swim at the surface in the evening. It is potamodromous. A bottom-feeding herbivore taking more than 90% plant food, such as algae, diatoms and macrophytes as well as detritus (Rahman and Ruma 2007).



Assessor: Md. Abdur Rob Mollah

Associate Assessor/s: Md. Mizanur Rahman

Devario anomalus

Species ID: FI0078

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Devario anomalus* Conway, Mayden & Tang, 2009

English Name: Anomalus Zebra

Bengali Name: Not known

Synonym/s: Not known

Taxonomic Notes: Conway *et al.* (2009) described *D. anomalus* for the first time as a new species from a small hillstream of southern Cox's Bazar, Bangladesh

Assessment Information

Red List Category & Criteria: EN B1+2 ab (iii) ver 3.1

Justification: *Devario anomalus* is a new species, presently known only from three close locations in Cox's Bazaar, Bangladesh (Conway *et al.* 2009; Ahmed *et al.* 2013). Very little information is available on the species. As the species occurs in shallow water pools, the fish is likely to be vulnerable to fishing. The estimated extent of occurrence (72.21 km²) and area of occupancy (0.06 km²) are much less than the upper thresholds for the IUCN highest threatened category. However, it is likely to be present in other similar places within the region. Considering the restricted locations and limited information and in the absence of any known conservation measures, presently the species is assessed Endangered.

Date Assessed: 20 October 2014

History

Regional Status: This taxon has not been assessed earlier in Bangladesh.



Devario anomalus

© Md. Mizanur Rahman

Geographic Range

Global: *Devario anomalus* has been reported only from Cox's Bazar District in Bangladesh (Conway *et al.* 2009, Ahmed *et al.* 2013).

Bangladesh: The species is reported from Himchari hill stream near Cox's Bazar (Conway *et al.* 2009), Borochara and Kudum cave of Cox's Bazar District (Ahmed *et al.* 2013). However, it is anticipated that the species could be found in other places within the region.

EOO: 72 km²

AOO: 0.06 km²

Population

Generation Time (Length): Unknown.

Total Population: The total population of the species is unknown. However, the species is relatively rare in its known places of occurrence.

Trend: Unknown.

Habitat and Ecology

It is a pelagic fish and inhabits freshwater hill streams with, fragmented rock, gravelly bottom in clear, low flow water pools at the foot of waterfalls and also in caves with stagnant waters.

Assessor: Mostafa Ali Reza Hossain

Garra annandalei

Species ID: FI0081

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYRINIFORMES	CYPRINIDAE

Scientific Name: *Garra annandalei* Hora, 1921

English Name: Annandale Garra, Tunga Garra, Log Sucker, Stone Roller

Bengali Name: Ghor Poa

Synonym/s: *Garra chaudhuri* Hora, 1921

Garra satyendranathis Ganguly & Dutta, 1973

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: EN B1ab(ii,iii,iv)+2ab(ii,iii,iv) ver 3.1

Justification: *Garra annandalei* has restricted distribution in the northeastern and southeastern hill streams of the country and the fish is reported to be rare within its habitat ranges (Mohsin 2007). The estimated Extent of Occurrence (147 km²) and Area of Occupancy (84 km²) of the species are less than the upper the threshold values of IUCN Endangered Red List Category. There is also a continued threat to the species from habitat loss caused due to removal of stones and siltation of hill streams and low stream flow affecting abundance of the species. In the absence of any targeted conservation measures the fish is assessed as Endangered.

Date Assessed: 24 July 2014

History

Regional Status: The taxon has been assessed as Data Deficient (DD) earlier in Bangladesh (IUCN Bangladesh 2000).



Garra annandalei

© Mostafa A R Hossain

Geographic Range

Global: The species is known from Bangladesh, India, Myanmar and Nepal (Rayamajhi and Jha 2010) and also from Bhutan (Mohsin 2007).

Bangladesh: The species is only available in the hill streams of southeastern and northeastern parts of Bangladesh (Mohsin 2007), specifically the fish was reported from Piyangang River in Sylhet District (Rahman 2005).

EOO: 147 km²

AOO: 84 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is unknown. However, it is seen in very small quantities and rare in Bangladesh (Mohsin 2007).

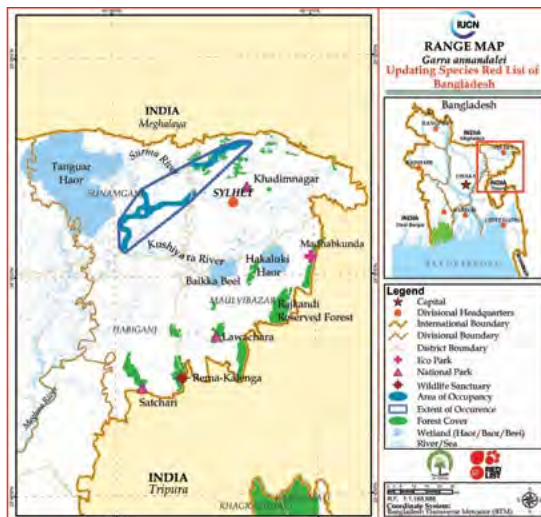
Trend: Population of the species has declined within its habitat ranges in Bangladesh (Mohsin 2007).

Habitat and Ecology

The fish inhabits freshwaters and found in swift and clear mountain stream with beds of rocks and boulders. This benthic-pelagic fish mainly feeds on the algal felts on the stones. It adheres to rocks with the help of the sectorial disc on its chin. It hides below the rocks and boulders in swift and clear water.

Assessor: Afshana Parven

Associate Assessor/s: Mostafa Ali Reza Hossain and Mst. Kaniz Fatema



Garra gotyla

Species ID: FI0082

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Garra gotyla* (Gray, 1832)

English Name: Gotyla, Sucker Head

Bengali Name: Ghor Poia

Synonym/s: *Cyprinus gotyla* Gray, 1832

Garra bimaculatus McClelland, 1839

Discognathus lamta Day, 1878

Garra gotyla Hora, 1921

Garra gotyla gotyla Menon, 1964

Taxonomic Notes: None



Garra gotyla

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: EN B1ab(ii,iii,iv)+2ab(ii,iii,iv) ver 3.1

Justification: *Garra gotyla* is distributed in the limited hilly areas of the country, particularly found in cooler hill streams. The estimated Area of Occupancy (110 km²) is less than the upper threshold for IUCN Redlist Endangered Category. The fish is very rare across its entire ranges and was recorded from less than five locations. Moreover, the species shows a declining population trend (Ahmed *et al.* 2015, Rahman and Ruma 2007). Several major threats, including stone and boulder removal, siltation of hill streams and low stream flow have been contributing to its population decline. On the other hand, no conservation measure targeting this species is in place to protect the fish. Hence, *G. gotyla* is assessed as Endangered.

Date Assessed: 10 August 2014

History

Regional Status: The fish has been assessed earlier as Data Deficient (DD) in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: This species is reported from Bangladesh, India, Myanmar, Nepal and Pakistan (Rahman and Ruma 2007).

Bangladesh: *G. gotyla* has limited distribution in the country and has been reported from Piyang River in the Sylhet-Jaflong area (Rahman and Ruma 2007), and Shailopropat hill stream and Nafakum areas of Bandarban District (Ahmed *et al.* 2015).

EOO: 10,549 km²

AOO: 110 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on total population is not currently available. However, it is stated to be less abundant and rare in the country (Rahman and Ruma 2007, Ahmed *et al.* 2015).

Trend: This fish was abundant during 1970's, however, currently it is becoming rare (Rahman and Ruma 2007). As per local accounts the abundance of the species has been decreasing (Ahmed *et al.* 2015).

Habitat and Ecology

This species inhabits freshwater and is found in fast flowing river and streams in the hilly areas with boulders and rocks on the bottom. It is benthic-pelagic and occupies middle reach of the hill stream pools. The fish remains attached to substratum with its sucker. It is mainly a herbivore fish, feeds on algae and plants. It also takes detritus as food (Rahman and Ruma 2007).

Assessor: Md. Mizanur Rahman



Labeo pangusia

Species ID: FI0094

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Labeo pangusia* (Hamilton, 1822)

English Name: Pangusia Labeo

Bengali Name: Ghora Maach, Longu, Ghora Muikha

Synonym/s: *Cyprinus pangusia* Hamilton, 1822

Labeo dyocheilus McClelland 1839

Gobio pangusia McClelland, 1839

Labeo kunki Chaudhuri 1912

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: EN B2ab(i,ii,iii) ver 3.1

Justification: *Labeo pangusia* has restricted distribution in the hilly rivers of the Sylhet region and is found rare (Rahman 2005, Haque 2007). Earlier, the fish was also reported from the Padma River system (Islam and Hossain, 1983) and recently from Sunamgonj haor areas (Mahalder and Mustafa 2011). However, recent surveys in hilly areas of the country could not find the fish (Azadi and Arshad-UI-Alam 2013, Ahmed *et al.* 2014). Considering the estimated Extent of Occurrence (7,045.73 km²) and Area of Occupancy (760.65 km²) the fish is assessed as Endangered.

Date Assessed: 25 December 2014

History

Regional Status: The taxon has been assessed as Critically Endangered (CR) earlier in Bangladesh (IUCN Bangladesh 2000).



Labeo pangusia

© Balam Mahalder

Geographic Range

Global: *Labeo pangusia* is known to occur in Bangladesh, Bhutan, India, Nepal and Pakistan (Talwar and Jhingran 1991, Menon 1999).

Bangladesh: It is found in the Surma River (Rahman 2005), Padma River (Islam and Hossian, 1983) and also from Sunamgonj haor areas (Mahalder and Mustafa 2011).

EOO: 7,046 km²

AOO: 761 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown. However, it is rarely found in catches.

Trend: Declining.

Habitat and Ecology

L. pangusia inhabits freshwater and occurs in hill streams and rivers of the hilly regions. The fish is benthopelagic and feeds on algae and diatoms and also grazes on aquatic plants. Lives in the active current of large streams and adjacent rivers (Haque 2007).



Assessor: M Niamul Naser

Megarasbora elanga

Species ID: FI0069

ENDANGERED

<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Megarasbora elanga* (Hamilton, 1822)

English Name: Bengala Barb

Bengali Name: Elong, Sephatia, Elanga

Synonym/s: *Bengala elanga* Hamilton, 1822
Cyprinus elanga Hamilton, 1822
Leuciscus elanga Hamilton, 1822
Rasbora elanga Hamilton, 1822
Megarasbora elanga Mirza, 2003

Taxonomic Notes: This species was misidentified earlier as *Bengala elanga* in Bangladesh by Rahman (2005) and Haque (2007) and its accepted name is *Megarasbora elanga*.



Megarasbora elanga

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: EN A2 acde ver 3.1

Justification: *Megarasbora elanga* is a widely distributed species in the river systems of Bangladesh. However, it is relatively rare within its habitat ranges (Haque 2007). Due to overfishing and habitat degradation caused by siltation and aquatic pollution, the population of the species in Bangladesh is continually declining and recent studies inferred a 50% reduction in its abundance (Latifa *et al.* In Press). The species was assessed Endangered earlier in Bangladesh and since then there has been no improvements in its population abundance or reduction in threats. Considering the above and in the absence of any conservation measures in place, the risk Category Endangered is retained for the species.

Date Assessed: 17 August 2014

History

Regional Status: The species has been considered Endangered (IUCN Bangladesh 2000).

Geographic Range

Global : *Megarasbora elanga* has a South Asian distribution. It is known from Bangladesh, India and Myanmar (Rahman 2005, Talwar and Jhingran 1991). It was also reported from Nepal (Shrestha 1990) and Pakistan (Mirza 2003).

Bangladesh: The species occurs in rivers throughout Bangladesh (Rahman 2005) and was abundant in every district of Bangladesh (Bhuiyan 1964). There used to be super abundance of this fish soon after yearly flood water started receding in autumn during 1950s and 60s. Sometimes, even there were no takers of this fish and the fishers were forced to dump it to a nearby field (M.A.R. Khan pers. comm.).

EOO: 2,17,468 km²

AOO: 11,128 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is unknown, however, currently the species is relatively rare within its habitat ranges (Haque 2007).

Trend: The population of the species is declining. Recent faunal survey inferred a 50% population decline (Latifa *et al.* In Press).

Habitat and Ecology

Megarasbora elanga is a freshwater species and found in ponds and in the middle and lower reaches of rivers (Menon, 1999). It is a pelagic and omnivorous species and its main food comprises aquatic insects, algae and protozoans (Haque 2007).

Assessor: Md. Sagir Ahmed



Neolissochilus hexagonolepis

Species ID: FI0114

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Neolissochilus hexagonolepis* (McClelland, 1839)

English Name: Copper mahseer

Bengali Name: Not known.

Synonym/s: *Barbus hexagonolepis* McClelland, 1839
Acrossocheilus hexagonolepis (McClelland, 1839)
Barbodes hexagonolepis (McClelland, 1839)
Accrossocheilus hexagonolepis (McClelland, 1839)
Acrossocheilus hexagonolepis (McClelland, 1839)
Barbus hexagonolepis McClelland, 1839
Neolissocheilus hexagonolepis (McClelland, 1839)

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: EN B1b(i,ii)c(iii) ver 3.1

Justification: *Neolissochilus hexagonolepis* was once found in Sangu River near Bandarban city (pers obs 12.11.14). The species has not been recorded from anywhere else and very little information is available about the species. Its Extent of Occurrence is less than 5000 km² and Area of Occupancy is just 182 km². There is severe siltation and narrowing of the river due to bad forestry practices in the hills surrounding the river and wrong use of land by the local residents for shifting of Jhum cultivation aggravated by settlements of the plains-dwellers to the hills causing serious shrinkages to the habitats of the species. So, it is assessed as Endangered.

Date Assessed: 16 October 2014



Neolissochilus hexagonolepis

© Md. Mizanur Rahman

History

Regional Status: *Neolissochilus hexagonolepis* has not been assessed before in Bangladesh.

Geographic Range

Global: *Neolissochilus hexagonolepis* is found from Bangladesh, Bhutan, China, India (Arunachal Pradesh, Assam, Bihar, Darjeeling, Jharkhand, Meghalaya, Nagaland, Uttar Pradesh), Indonesia Malaysia, Myanmar, Nepal, Pakistan, Thailand and Viet Nam (Jayaram 1981, Petr 1999).

Bangladesh: Only confirmed record of it is by Mohammad Arshad-ul-Alam, Assistant Professor, Department of Zoology, Bandarban Government College who photographed a few individuals over the last few years from the river Sangu in the Hill Districts of Bandarban. An individual fish was recorded by the IUCN crustacean team for Updating Red List led by the author in a recent exploration survey from the Sangu River of Bandarban District.

EOO: 3,094 km²

AOO: 182 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Adults feed mainly on filamentous green algae, lesser on chironomid larvae, crustaceans and water beetles. They migrate upstream during the breeding season where spawning takes place on stones and gravel. Tropical, Freshwater; benthopelagic; potamodromous. The species is co-occurring with *Tor* sp. Adults occur in fast flowing streams and rivers with rocky bottom, mainly in the middle of streams. Omnivorous. Inhabits hilly streams with fast flowing water. It prefers rocky and boulder areas with rapid water flow. *N. hexagonolepis* breed in running water pools during April - October with a peak between August and September.

Assessor: Mostafa Ali Reza Hossain



Oreichthys cosuatis

Specied ID: FI0096

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Oreichthys cosuatis* (Hamilton, 1822)

English Name: Cosuatis Barb

Bengali Name: Kosuati punti, Kosua punti, Titkinda, Tit punti

Synonym/s: *Cyptinus cosuatis* (Hamilton, 1822)

Barbus cosuatis (Hamilton, 1822)

Leuciscus cosuatis (Hamilton, 1822)

Puntius coorgensis (Jayaram, 1982)

Puntius cosuatis (Hamilton, 1822)

Rohtee pangut (Sykes, 1839)

Systemus malacopterus (McClelland, 1839)

Taxonomic Notes: The species was originally described as *Puntius cosuatis* by Hamilton in 1822 but Jayaram adopted the species name 'coorgensis' in 1982. Hamilton reclassified it as *Leuciscus cosuatis* in 1822; he had again reclassified it as *Barbus cosuatis* in 1822, and again adopted as *Cyptinus cosuatis*. The species name finally adopted as *Oreichthys cosuatis* in 1822 by Hamilton. According to <http://www.iucnredlist.org/details/168538/0> - the taxonomy of this species needs to be revised. Its wide distribution in different drainages suggests that there may be more than one species involved.

Assessment Information

Red List Category & Criteria: EN B2bc(i,ii) ver 3.1

Justification: The Area of Occupancy of *Oreichthys cosuatis* is estimated 3,110 km² and Extent of Occurrence measured 1,74,915 km² but it is encountered very rarely throughout distribution in the country. It is found just in a handful of locations and in small quantity.



Oreichthys cosuatis

© Mostafa A R Hossain

Moreover, its habitat is declining at an alarming rate. Considering all these, the species is assessed as Endangered.

Date Assessed: 6 August 2014

History

Regional Status: The species assessed as Threatened by Red List of IUCN Bangladesh (2000).

Geographic Range

Global: *Oreichthys cosuatis* is found in Bangladesh, India, Myanmar, Nepal and Thailand (Mahalder and Mustafa 2013).

Bangladesh: It is found in canals, beels and haors mostly in southern part of Bangladesh as occasional incidental catch.

EOO: 1,74,915 km²

AOO: 3,110 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

The species is found in wide variety of habitat including streams, rivers, ponds and ditches in small quantity. It spends much of its time in rivers and streams as well as in ditches, ponds, streams and canals.

Assessor: Md. Golam Mustafa

Associate Assessor/s: Bolaram Mohalder



Raiamas bola

Specied ID: FI0108

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Raiamas bola* (Hamilton, 1822)

English Name: Trout Barb; Bengal Trout

Bengali Name: Bole, Bhol

Synonym/s: *Cyprinus bola* Hamilton, 1822

Barilius bola Day, 1878

Leuciscus salmoides Blyth, 1858

Barilius corbetti Tilak & Husain, 1980

Raiamas bola Hora & Mukerjee, 1936

Taxonomic Notes: None



Raiamas bola

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: EN A2acd ver 3.1

Justification: The distribution of *Raiamas bola* is restricted with rocky beds in the River Someshwari and Kangsha (under Netrakona District) and also Punarbhaba River (under Dinajpur District) and certain rivers in Sylhet District. Due to degradation of habitats resulting from siltation, its population has reduced severely and is limited only to the clear waters of those rocky rivers. Population of this species may become critical in the near future since habitat degradation is continuing in these rivers. Considering the current limited range of distribution, probable shrinkages in its abundance in Bangladesh, the species is considered as Endangered.

Date Assessed: 22 September 2014

History

Regional Status: The species was assessed Endangered (IUCN Bangladesh 2000).

Geographic Range

Global: *Raiamas bola* is found in Bangladesh, Bhutan, India (hilly streams of the Northern provinces), Myanmar, Nepal and Thailand (Suvatti 1981, Rajbanshi and Csavas 1982, Rahman and Ruma 2007).

Bangladesh: Rivers of clear streams with rocky beds particularly in some hilly streams of Mymensingh, Sylhet and Dinajpur regions (Rahman 2005).

EOO: 38,598 km²

AOO: 2,143 km²

Population

Generation Time (Length): Unknown.

Total Population: No information is available on wild population.

Trend: Unknown.

Habitat and Ecology

Shallow clear hilly tropical streams with rocky beds. A low fecund species, breeds during early monsoon (June) in quite inundated areas (Talwar and Jhingran 1991). It is a demersal and potamodromous species.



Assessor: Harunur Rashid

Tor putitora

Species ID: FI0112

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Tor putitora* (Hamilton, 1822)

English Name: Putitor mahseer, Golden mahseer

Bengali Name: Mohashol, Mohsheer

Synonym/s: *Cyprinus putitora* Hamilton, 1822

Tor putitora Tilak & Sharma, 1982

Barbus putitora Hora, 1939

Taxonomic Notes: The species was first described by Hamilton (1822) as *Cyprinus putitora*. He included two other species, i.e. *Cyprinus tor* and *C. mosa* under the same genus *Cyprinus*. Menon (1954) placed this under the genus *Tor*.



Tor putitora

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: EN B1ab(i,ii,iii)+2ab(i,ii,iii) ver 3.1

Justification: The species is under severe threat from overfishing, loss of habitat, and decline in quality of habitat resulting in the loss of breeding grounds, and from other anthropogenic effects that have directly resulted in declines in harvest in its entire locations. Its Extent of Occurrence (EOO) and Area of Occupancy (AOO) is estimated as 1,300 km² and 488 km², respectively. It has so far been noted just from two locations in the upstream of the trans-boundary rivers with India. The species is, therefore, assessed as Endangered and is in need of urgent conservation efforts to save it from becoming regionally extinct in the country.

Date Assessed: 21 January 2015

History

Regional Status: It was not evaluated in the past (IUCN Bangladesh 2000)

Geographic Range

Global: It is endemic to Asia and distributed in Bangladesh, India, Malaysia, Nepal, Pakistan, Sri Lanka, and some south east countries of Asia (Shrestha 1990, Rahman 2005, Nguyen *et al.* 2008). It has also been reported from Malay Peninsula and the larger Indonesian Island across Sumatra, Borneo and Java (Menon 1992, Roberts 1999).

Bangladesh: In Bangladesh, *Tor mahseer* occurs in Someswari River in Netrokona. It is found occasionally in Kaptai Lake in Rangamati District and Tanguar Haor, Sunamgong (pers. obs. 16 June 2014).

EOO: 1,300 km²

AOO: 488 km²

Population

Generation Time (Length): Unknown.

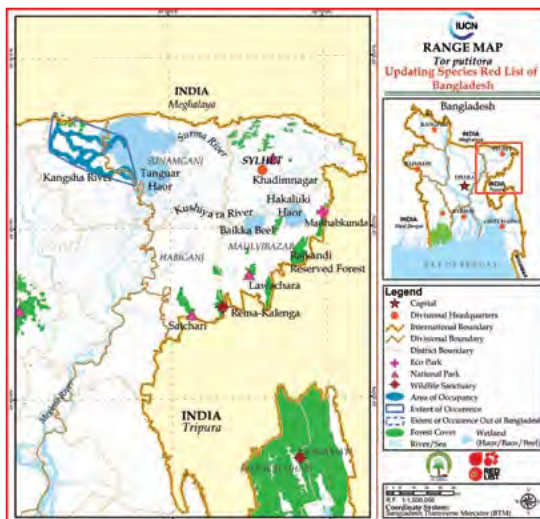
Total Population: Total population is declining. It is extremely rarely found in its natural habitats in Bangladesh (Naher 2014).

Trend: Unknown.

Habitat and Ecology

It inhabits streams, riverine pools and lakes. This fish likes rapid streams with rocky bottom. It is an omnivorous species, feeds on fish, zooplankton, dipterans larvae and plant matter (Shrestha 1999). Juveniles subsists on plankton while fingerlings feed mainly on algae. It ascends to the streams to breed over gravel and stones and returns to perennial ponds after breeding.

Assessor: Md. Sagir Ahmed



Chitala chitala

Species ID: FI0044

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	OSTEOGLOSSIFORMES	NOTOPTERIDAE

Scientific Name: *Chitala chitala* (Hamilton, 1822)

English Name: Humped Featherback, Clown Knife Fish

Bengali Name: Chital, Chitna

Synonym/s: *Mystus chitala* Hamilton, 1822

Notopterus chitala Day, 1878

Notopterus ocellifer Bleeker, 1865

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: EN A2ce ver 3.1

Justification: *Chitala chitala* is an apparently widespread species in Bangladesh and found in the markets throughout the year (Alam 2007). However, local distribution ranges of the species are most probably becoming restricted to some areas of the country, which could be inferred from its reduced estimated Area of Occupancy (7,302.25 km²). The fish is highly utilized and fetches high prices in the markets. Based on field observations, it was suspected that the population of this species has declined by about 75% over the last two decades (Ahmed *et al.* 2015). Earlier, this species was assessed as Endangered in the country, however, since then the existing threats have not been removed nor the population decline has halted. In the absence of any pragmatic conservation measures targeting the species, and existing continued widespread threats, it is unlikely that the situation will improve in near future. Therefore, threatened category Endangered is retained for the species.

Date Assessed: 25 June 2014



Chitala chitala

© Balam Mahalder

History

Regional Status: The taxon has been considered as Endangered earlier in IUCN Bangladesh 2000.

Geographic Range

Global: The species is recorded from Bangladesh, India, Malaysia, Myanmar, Nepal, Pakistan, the Philippines and also from Thailand. (Alam 2007).

Bangladesh: *Chitala chitala* is described as a widely distributed species in rivers, beels, haors, reservoirs, canals and ponds (Rahman 2005). However, the species is specifically reported from the river Brahmaputra, Jamuna, Padma, Meghna, Someshwari and Kongsho River of Netrokona, Korotoa and Atrai River of Dinajpur, the Surma River of Sylhet, the Kirtonkhola and Shugandha River of Barishal Division. This species has also been recorded from the Kaptai Lake of Rangamati and the Tangar Haor of Sunamgonj (Hossain and Haque 2005, Rahman and Akhter 2007, Nath *et al.* 2010, Galib *et al.* 2013, Ahmed *et al.* 2015).

EOO: 1,31,403 km²

AOO: 7,302 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on the total population of the fish is not available.

Trend: Based on field observations, it is suspected that the population of the species has probably declined by about 75% during the last two decades in Bangladesh (Ahmed *et al.* 2015).

Habitat and Ecology

C. chitala is carnivorous in habit and predatory in nature. It feeds on aquatic insects, molluscs, shrimps and small fishes. At its early stage, it lives on insects and tender roots of aquatic plants. It builds nest for breeding and protects it (Alam 2007). The species congregate in large numbers, where it lives.

Assessor: Md. Mizanur Rahman

Associate Assessor/s: Gawsia Wahedunessa Chowdhury



Channa marulius

Species ID: FI0005

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	CHANNIDAE

Scientific Name: *Channa marulius* (Hamilton, 1822)
English Name: Giant Snakehead, Great Snakehead
Bengali Name: Gajar, Gajal, Sal, Gajori
Synonym/s: *Channa marulia* (Hamilton, 1822)
Ophicephalus marulius Hamilton, 1822
Ophicephalus grandinosus Cuvier, 1831
Ophicephalus sowara Cuvier, 1831
Ophicephalus marulius Shaw and Shebbeare, 1937

Taxonomic Note: None



Channa marulius

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: EN A2bcd ver 3.1

Justification: *Channa marulius* is a wide spread species but scarce in comparison to other species of *Channa*. Although, there is no reported population decline it is inferred that its population has been reduced over 50% in the last ten years due to over exploitation and habitat destruction. Therefore, this species is assessed as Endangered (EN).

Date Assessed: 25 June 2014

History

Regional Status: It was assessed as Endangered (EN) by IUCN Bangladesh (2000).

Geographic Range

Global: It is found in Bangladesh, China, India, Cambodia, Lao, Myanmar, Nepal, Pakistan, Sri Lanka, Thailand and

Viet Nam. (Talwer and Jhingran 1991, Rainboth 1996, Rahman 2005)

Bangladesh: The Padma, Padma distributaries, Borulia haor (Nikli, Kishorganj), Mahananda, Choto Jamuna, Ichanoi Beel (Gaibandha), Dogger Beel (Chandpur), Titas (Rahman 2005, Ahmed and Akhter 2008), larger haors in Greater Sylhet and Mymensingh Districts, beels and larger water bodies in Dhaka, Manikganj and Tangail Districts.

EOO: 70,254 km²

AOO: 1,352 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Declining.

Habitat and Ecology

It is a carnivorous, surface dweller, predatory fish and prefers deep clear water with muddy, sandy and rocky bottom. When water dries up it goes deeper into the mud to avoid desiccation and death. It breeds with the onset of monsoon.



Assessor: Ismot Ara

Batasio tengana

Species ID: FI0139

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Batasio tengana* (Hamilton, 1822)

English Name: Dwarf Catfish

Bengali Name: Tengra

Synonym/s: *Pimelodus tengana* Hamilton, 1822

Macrones tengana Günther, 1864

Gagata tengana Day, 1878

Batasio tengana Rahman, 1974

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: EN A2ace ver 3.1

Justification: Fisher's catch, fish landing centres and fish market surveys reveal that the species is not common and is occasionally seen with *other Mystus* species (Latifa *et al.* In Press). Its population declined significantly across its range due to habitat loss (Wahab 2003, Ahmed *et al.* 2015). From the recent studies, it can be easily inferred that about 70% population of this species has been reduced during the last ten years due to these threats. The Extent of Occurrence and Area of Occupancy do not qualify for any Threatened Category though the species found n to be declining in trend. Hence, this species is assessed as Endangered based on its inferred population size reduction.

Date Assessed: 15 October 2014

History

Regional Status: It has been considered as Endangered (IUCN Bangladesh 2000).



Batasio tengana

© Md. Mizanur Rahman

Geographic Range

Global: It occurs in Bangladesh, India and Nepal (Rahman 1989, Talwar and Jhingran 1991).

Bangladesh: This is a riverine species (Hossain *et al.* 2012) particularly reported from the old Brahmaputra River and Tista River drainage and torrential streams in the north-eastern part of Bangladesh (Rahman 2005). Also found in the Piyang and Sari Rivers in in Sylhet District (Ahmed *et al.* 2015).

EOO: 50,252 km²

AOO: 15,219 km²

Population

Generation Time (Length): Unknown,

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It generally inhabits rivers and torrential streams. The species is a detritus feeder and prefers to live in the upper reaches of riverine habitats



Assessor: Md. Abdur Rob Mollah

Associate Assessor/s: Md. Mizanur Rahman

Rita rita

Species ID: FI0148

ENDANGERED

<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Rita rita* (Hamilton, 1822)

English Name: Rita

Bengali Name: Rita, Rida

Synonym/s: *Pimelodus rita* Hamilton, 1822;

Arius ritooides Valenciennes, 1840;

Rita buchanani Bleeker, 1854;

Rita buchanani Day, 1877;

Rita rita Shaw and Shebbeare, 1937.

Taxonomic Notes: None



Rita rita

© Balam Mahalder

Assessment Information

Red List Category & Criteria: EN A2bc ver 3.1

Justification: The species is widely distributed within Bangladesh and its estimated Area of Occupancy and Extent of Occurrence are much higher than the lower thresholds for any threatened category. Recent field and market visits (NACOM 2007, 2008, 2010, Ahmed *et al.* 2015) indicate that the fish is available in good numbers in some areas within its local range and the population abundance remains stable, while in the north-western Bangladesh the population registered a sharp decline (more than 50%, pers. obs.) during the last 15 years. Considering the habitat loss, fishing pressure and continuing population decline, the species is evaluated as Endangered.

Date Assessed: 27 August 2014

History

Regional Status: It was assessed as Critically Endangered (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Afghanistan, Bangladesh, India (mostly in northern part), Myanmar, Nepal and Pakistan (Talwar and Jhingran 1991, Alam 2007).

Bangladesh: Padma River, Arial Kha River, Chalan Beel, Barnai River of Rajshahi, Bangali River of Bogra, Baral River of Natore, River Choto Jamuna, Brahmaputra, Turag River, "Ichhanoi Beel" at Palashbari Upzai of Gaibandha (extremely rare), Mahananda River at Chapai Nawabganj District, Medha Beel, Upazilla of Kolmakanda, Netrokona, Someshari and Kangsha River of Netrokona, Kritonkhola, Barisal, Surma River in Sylhet, Surma River, Sunamganj, Surma River, Rupsha River (Khulna), Meghna river Chandpur and Bhairab, Baleswar River (Pirojpur) (Hossain *et al.* 2012, Ahmed *et al.* 2015).

EOO: 79,633 km²

AOO: 7,861 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

This species inhabits both fresh and brackish waters and prefers muddy to clear water (Bhuiyan 1964). It is potamodromous and carnivore in habit. This catfish feeds on insects, molluscs, shrimps, fishes and roots of aquatic plants. It also take putrid carcass or flesh of animals (Alam 2007).

Assessor: Md. Abdur Rob Mollah



Chaca chaca

Species ID: FI0183

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	CHACIDAE

Scientific Name: *Chaca chaca* (Hamilton, 1822)

English Name: Squarehead Catfish, Angler Catfish

Bengali Name: Chaka, Gangainna, Chaka Veka

Synonym/s: *Platystacus chaca* Hamilton, 1822;

Chaca buchmanii Günther, 1846,

Chaca lophioides Day, 1878,

Chaca chaca Misra, 1976

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: EN A2ace ver 3.1

Justification: Although, *Chaca chaca* is found in all ranges of water bodies throughout the country, but the population of this species has declined in most parts of its habitats due to habitat loss, aquatic pollution and other anthropogenic activities. It can be inferred from recent field observations and local accounts that more than 70% population of the fish has reduced during the last two decades. Hence, it is assessed as Endangered.

Date Assessed: 20 March, 2015

History

Regional Status: The taxon has been considered as Endangered earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: This species occurs in Bangladesh, India and Nepal (Talwar and Jhingran 1991, Rahman and



Chaca chaca

© Md. Mizanur Rahman

Chowdhury 2007).

Bangladesh: It is found in rivers, canals, ponds, inundated paddy fields throughout Bangladesh (Rahman and Chowdhury 2007). In particular, it has been recorded from Tanguar Haor, Myttain Haor (Taherpur, Sunamganj), Patlai River (Taherpur), Hail Haor (Mowlavibazar), Derai Haor (Sylhet), Someshwari River (Durgapur), Dhalai River (Pabna), Chalan Beel (Natore, Sirajganj), Buriganga River, Turag River (Gopinpur, Kaliakoir), Bangshi River (Mirzapur) (Latifa *et. al.* In Press).

EOO: 2,17,468 km²

AOO: 11,964 km²

Population

Generation Time (Length): Unknown.

Total Population: Empirical data on the total population is not available but the species is less abundant (Latifa *et. al.* In Press).

Trend: Declining.

Habitat and Ecology

It is a potamodromous and carnivorous fish, and predatory in habit. It feeds on insect larvae, small fishes and bottom detritus. *C. chaca* inhabits freshwater and found in streams or even clear standing rivers, ponds, ditches, canals and inundated floodplain areas (Rahman and Chowdhury 2007).

Assessor: Gulshan Ara Latifa



Olyra longicaudata

Species ID: FI0184

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	OLYRIDAE

Scientific Name: *Olyra longicaudata* McClelland, 1842

English Name: Longtail Catfish, Himalayan Olyra, Bannertail Catfish

Bengali Name: Bot Shinghi

Synonym/s: *Olyra longicaudata* McClelland, 1842

Olyra elongata Günther, 1883

Olyra kempfi Chaudhuri, 1912.

Taxonomic Notes: This species was described earlier in Bangladesh as *Olyra kempfi* (Rhaman 2005).



Olyra longicaudata

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: EN A2bc ver 3.1

Justification: *Olyra longicaudata* has been reported only from Padma and Jamuna Rivers, Himchori and Inani hill streams of Cox's Bazar District and Dahuki River of Sylhet District. This species is stated to be very rare within its local distribution ranges. Although, little is known about its threats, however, its habitat destruction is clearly evident from recent field visits. The estimated Area of Occupancy (1,519.73 km²) qualifies the species for IUCN Threatened Category. Based on local accounts and field observations, it was inferred that around 70% population decline of the species occurred during the last two decades (Ahmed *et al.* 2015), which is below the upper threshold value for Endangered Category. Therefore, this species has been assessed as Endangered.

Date Assessed: 15 February 2015

History

Regional Status: The species has been considered as Data Deficient (DD) earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *O. longicaudata* occurs in Bangladesh, India and Myanmar (Rahman and Chowdhury 2007).

Bangladesh: This species has been recorded from the Himchori and Inani hill streams of Cox's Bazar District (Ahmed *et al.* 2015), River Brahmaputra and the Jamuna (Rahman and Akter 2007) and Dahuki River of Sylhet District. The hill streams of Sylhet District and Chittagong Hill Tracts are stated to be the ideal habitat for this species (Rahman and Chowdhury 2007).

EOO: 1,02,143 km²

AOO: 1,520 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on the total population of the species is not available, however, it is stated to be rare in Dahuki River of Sylhet District and Inani and Himchori hill streams (Rahman and Chowdhury 2007, Ahmed *et al.* 2015).

Trend: Declining.

Habitat and Ecology

It feeds on benthic organisms from the bottom of the rocky streams. This species inhabits small clean water, rocky streams and pebbly beds in in swift currents at the base of hills. It occurs among rocks and boulders on the bottom of fast flowing upland streams (Rahman and Chowdhury 2007, Ahmed *et al.* 2015).

Assessor: Md. Mizanur Rahman



Clupisoma garua

Species ID: FI0157

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SCHILBEIDAE

Scientific Name: *Clupisoma garua* (Hamilton, 1822)

English Name: Garua Bacha, Gagra

Bengali Name: Ghaura, Gharua, Gagra, Garua Bacha, Guarchcha

Synonym/s: *Silurus garua* Hamilton-Buchanan, 1822

Clupisoma argentata Swainson, 1839

Schilbegarua Valenciennes, 1839

Schilbeichthys garua Bleeker, 1855

Clupisoma garua Bleeker, 1863

Pseudeutropius garua Day, 1878

Taxonomic Notes: The *garua* is one of the six species of the genus *Clupisoma* so far recorded from the Ganges water (Talwar & Jhingran 1991), while it is one of the two available species under the stated genus in Bangladesh Rivers (Rahman 2005). Recently, its molecular taxonomy through DNA barcoding of mitochondrial Cytochrome Oxidase I (COI) gene indicated that the species is *C. prateri* (Ahmed *et al.* In Press, GenBank: KT364783.1).

Assessment Information

Red List Category & Criteria: EN A2bcd ver 3.1

Justification: *Clupisoma garua* is widely distributed and fairly common in its habitats. It was enlisted in the IUCN Red List for Bangladesh as a Critically Endangered species (IUCN 2000) due to its highly declined population, caused by threats, like siltation, overexploitation, aquatic pollution, etc. These threats still persist and there is no sign of its recovery (pers. obs.). The species is distributed throughout Bangladesh and expected to have a large population and recent faunal survey (Latifa *et al.* In Press) showed that the relative abundances of the species is fairly common. However, the prevailing idea is that that the population of the species is declining at a slower rate and it is



Clupisoma garua

© Md. Mizanur Rahman

inferred that the population abundance has probably declined by 50% during the last 15 years (Ahmed *et al.* 2015). Considering potential threats to its habitats and steady decline in population, the species is assessed as Endangered.

Date Assessed: 04 August 2014

History

Regional Status: This taxon has been considered as Critically Endangered (IUCN Bangladesh 2000).

Geographic Range

Global: Globally the *Clupisoma garua* is found in the freshwater river systems in Bangladesh, India and Pakistan (IUCN 2000, Talwar and Jhingran 1991).

Bangladesh: The species is widely distributed throughout the country. Tista and Padma-Jamuna-Meghna River systems and their connected beels, baors, lakes, flooded low lands in the north-west to central regions; the Surma, Kushiara, Titas and Kangsha River basins and the connected haors and beels in the north-east region, Sangu River and the inter-tidal estuarine rivers and canals in the south-west to south-east regions in Bangladesh (Ahmed 2002, Ahmed *et al.* 2003, Rahman 2005, Rahman and Akhter 2007).

EOO: 1,73,814 km²

AOO: 10,687 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Declining.

Habitat and Ecology

Clupisoma garua inhabits in rivers and connected large water bodies with sandy to muddy bottoms (Rahman 2005). Primarily it lives in freshwater rivers up to Meghna Estuary and secondarily, move to haors, baors and beels during monsoon. It is carnivorous, feeds on insect, shrimp, other crustaceans, small fishes and other decaying matters. It is also known as coprophagous.

Assessor: Md. Rafiqun Nabi



Ompok bimaculatus

Species ID: FI0151

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SILURIDAE

Scientific Name: *Ompok bimaculatus* (Bloch, 1797)
English Name: Butter Catfish, Two Spot Glass Catfish
Bengali Name: Kani Pabda, Boali Pabda
Synonym/s: *Silurus bimaculatus* Bloch, 1797;
Silurus canio Hamilton, 1822;
Silurus indicus McClelland, 1842;
Wallago microcephalus Bleeker, 1853;
Pseudosilurus macrophthalmus Blyth, 1860;
Callichrous bimaculatus Day, 1877;
Ompok bimaculatus Munro, 1955.

Taxonomic Notes: None



Ompok bimaculatus

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: EN A2cde ver 3.1

Justification: *Ompok bimaculatus* is reported as fairly distributed species, but it is less common than its congener. The threats to the species also persist and unlikely to halt or reverse in the near future. It is conjectured that this species has started to disappear from many water bodies and the population decline is also continuing at a significant rate due to habitat shrinkage caused by siltation, wetland conversion and other factors. Recent studies suggest that the population abundance of the species has probably declined by more than 60% during the last two decades. Hence, considering the declining population trend, the earlier Endangered Category could be retained for this species though the Extent of Occurrence and Area of Occupancy exceed the threshold values of Threatened Categories. Therefore, this species has been assessed as Endangered.

Date Assessed: 10 August 2014

History

Regional Status: It was considered as Endangered (IUCN Bangladesh 2000).

Geographic Range

Global: *Ompok bimaculatus* is widely distributed in Indian subcontinent to Southeast Asia including Bangladesh, India Myanmar, Pakistan and Sri Lanka (Talwar and Jhingran 1991, Parween 2007).

Bangladesh: It is distributed throughout the country (Parween 2007) but particularly reported from the Bangali River of Bogra (De *et al.* 2011), Halda River of Chittagong (Alam *et al.* 2013), Tanguar and Hakaluki Haor (Pers. obs.), Brahmaputra-Jamuna (Rahman and Akhter 2007), River Mahanada, Padma River (Mohsin *et al.* 2013).

EOO: 2,17,468 km²

AOO: 11,128 km²

Population

Generation Time (Length): Unknown.

Total Population: Absolute population data are not available.

Trend: Decreasing.

Habitat and Ecology

It occurs in streams and rivers of all sizes with sluggish to moderate currents. Prefers quiet, shallow, muddy water to live. It is found also in canals, beels and inundated fields. This fish is omnivorous and predatory in nature. This catfish feeds on the crustacean larvae, fish fries, zooplankton, algae and small portion of sand and mud. (Parween 2007).

Assessor: Md. Abdur Rob Mollah

Associate Assessor/s: Md. Mizanur Rahman



Ompok pabda

Species ID: FI0152

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SILURIDAE

Scientific Name: *Ompok pabda* (Hamilton, 1822)

English Name: Pabda catfish, two stripe Gulper catfish

Bengali Name: Madhu pabda, Pabda, Paibba

Synonym/s: *Silurus pabde* Hamilton, 1822,

Wallago pabda Bleeker 1853,

Callichronus pabda Day 1878.

Taxonomic Notes: *Ompok pabda* is sometimes confused with *Ompok bimaculatus*.



Ompok pabda

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: EN A2cd ver 3.1

Justification: *Ompok pabda* was fairly abundant throughout Bangladesh but due to habitat shrinkage caused by massive siltation and wetland conversion followed by overexploitation and aquatic pollution, etc. The abundance of the species declined drastically during 1980s (pers. obs.). The species has also disappeared from many water bodies. The population decline is also continuing, but at a slower rate. In recent studies (NACOM 2007, 2010a, 2010b) recorded the the species as a rare one in almost all sites studied. The threats to the species persist and unlikely to halt or reverse in the near future. Our long field experiences, anecdotal information and expert consultation (M. S. Ahmed pers. comm.) suggest that the population abundance of the species has probably cumulatively declined by more than 60% during the last 10 years (3 generation time). The Extent of Occurrence and Area of Occupancy data, however, do not exceed the threshold values of any threatened category and there is no known fragmentation of its habitat. Therefore, Endangered Category is retained for the species.

Date Assessed: 22 September 2014

History

Regional Status: *Ompok pabda* was categorized as Endangered (IUCN Bangladesh 2000).

Geographic Range

Global: It is reported from southern Afghanistan, most parts of India, Bangladesh, Pakistan (along Indus) and Myanmar (Talwer and Jhingran 1991, Rahman 2005).

Bangladesh: The species is widely distributed throughout Bangladesh and reported from Padma, Jamuna, Meghna, Surma, Kushira, Manu Ichamati, Banglali, Turag, Baral, Choto Jamuna, Mahananda, Muhuri, Barnai and Titas Rivers Feni Reserviour, Tanguar Haor, Hakaluki Haor, Chalan Beel and Medha Beel (Rahman 2005, Rahman and Chowdhury 2007, Ahmed 2008).

EOO: 1,21,601 km²

AOO: 13,519 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

The species inhabits both lotic and lentic waters. It is found in rivers of all sizes, canals, beels, lake, auto- stocked ponds and floodplains and even found in roadside ditches. It is usually a surface feeder and omnivorous in nature, generally feeds on aquatic insects, crustaceans, moss, protozoa, etc. It also predate on fish fry and larvae.

Assessor: Md. Abdur Rob Mollah

Associate Assessor/s: Md. Mizanur Rahman



Pangasius pangasius

Species ID: FI0158

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	PANGASIIDAE

Scientific Name: *Pangasius pangasius* (Hamilton, 1822)
English Name: Pungas, Yellowtail Catfish, Pungas Catfish
Bengali Name: Pangas, Pangwash
Synonym/s: *Pimelodus pangasius* Hamilton, 1822
Pangasius buchanani Valenciennes, 1840
Pangasius pangasius upiensis Srivastava, 1968
Pangasius pangasius godavarii David, 1962

Taxonomic Notes: None



Pangasius pangasius

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: EN A2bcd ver 3.1

Justification: *Pangasius pangasius* is one of the uncommonly caught commercial fishes in Bangladesh. It is inferred that its population has been declined by about 50% over the last 20 years due to habitat destruction and over exploitation throughout the country (A. R. Mollah and M. S. Ahmed pers. comm.). Although the Extent of Occurrence (2,17,485 km²) and Area of Occupancy (14,982 km²) exceed the threshold value of the Threatened Category, considering the major threats to its habitats and declining trend in its wild population, it has been assessed as Endangered.

Date Assessed: 25 February 2015

History

Regional Status: It was considered as Critically Endangered (IUCN Bangladesh 2000).



Geographic Range

Global: Widely distributed in the large rivers and reservoirs of Bangladesh, India, Myanmar, Nepal and Pakistan (Mohsin 2007, Pal 2009).

Bangladesh: Estuaries, large rivers, haors, baors, beels and floodplains throughout Bangladesh (Ahmed 2002, Mohosin 2007, Hossain *et al.* 2009).

EOO: 2,17,486 km²
AOO: 14,982 km²

Population

Generation Time (Length): Unknown.

Total Population: Recorded as abundant previously in the rivers of Bangladesh (Rahman 2005) but serious declines in its populations and abundances have been reported (Hossain *et al.* 2009). There is no empirical evidence to support this decline for this species throughout its range. However, localized catch data suggests that this species is being overfished (Hoq 2007).

Trend: Decreasing (Mohsin 2007, FRSS 2013).

Habitat and Ecology

Pangasius pangasius inhabits freshwaters of the tidal zone as juveniles, moves to brackish water as sub-adults and finally as adults to river mouths and inshore areas. It is potamodromous and voracious, feeds on snails, other mollusks and plants (Rainboth 1996). Usually breeds in the estuary during the rain.

Assessor: Gawsia Wahidunnessa Chowdhury

Mastacembalus armatus

Species ID: FI0243

ENDANGERED
<EN>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SYNBRANCHIFORMES	MSTACEMBELIDAE

Scientific Name: *Mastacembalus armatus* (Lacepede, 1800)

English Name: Tire-track Spinyeel

Bengali Name: Baim, Sal Baim

Synonym/s: *Macrognathus armatus* Lacepede, 1800

Mastacembelus armatus Valenciennes, 1831

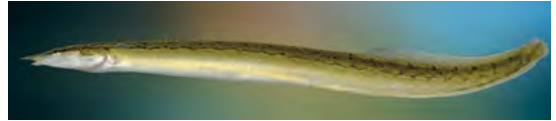
Mastacembelus ponticerianus Cuvier, 1832

Macrognathus caudatus McClelland, 1842

Mastacembelus armatus Day, 1878

Mastacembelus manipurensis Hora, 1921

Taxonomic Notes: None



Mastacembalus armatus

© Md. Mizanur Rahman

Date Assessed: 15 October 2014

History

Regional Status: It was considered as Endangered by the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: It is found in Pakistan, India, Myanmar, Malaysia to southern China, Nepal, Sri Lanka and Thailand (Jhingran and Jalwar 1991, Rahman 2005).

Bangladesh: It is distributed in rivers, canals, beels, ponds and inundated fields in the freshwater regimes throughout Bangladesh (Rahman 2005, Rahman and Akhter 2007, Ahmed 2008, Mahsin and Haque 2009, Galib *et al.* 2013, Ahmed *et al.* 2015).

EOO: 2,17,468 km²

AOO: 1,1857 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Declining.

Habitat and Ecology

It is carnivorous in habit, juveniles feed on crustaceans and insect larvae. Adults feed on barbs, minnows, other small fishes, shrimps and prawns and tadpoles. It inhabits within the bottom substrate of rivers, canals, streams, beels, ponds and inundated fields. It also ventures into brackish water.

Assessment Information

Red List Category & Criteria: EN A2bc ver 3.1

Justification: Although the estimated Area of Occupancy and Extent of Occurrence of this species indicate its wide distribution throughout its range, the reduction of its population can be easily speculated based on recent field surveys. The current low population and its declining trends can be inferred from squeezing of its natural habitats due to different anthropogenic activities. In earlier assessment by IUCN this species was enlisted as Endangered but no remarkable measures were taken to halt its population reduction or reverse its habitat quality except establishment of some fish sanctuaries. However, based on local accounts collected through field visits and personal communication with local people it is assumed that this species has reduced more than 50% by the last two decades (Ahmed *et al.* 2015). Therefore, *Mastacembalus armatus* is assessed as Endangered.



Assessor: Md. Abdur Rob Mollah

A red teardrop-shaped graphic is centered on a yellow background. The background features faint, wavy, light-green lines that create a sense of movement and depth. The red shape is a solid, vibrant red, and the text is white and centered within it.

VULNERABLE
〈 VU 〉



Anguilla bengalensis

Species ID: FI0046

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	ANGUILLIFORMES	ANGUILLIDAE

Scientific Name: *Anguilla bengalensis* (Gray, 1831)

English Name: Indian Mottled Eel
Giant Mottled Eel, Mottled Eel

Bengali Name: Bamosh, Banehara, Bao Baim, Bao Mach, Boa Baim, Telkoma

Synonym/s: *Anguilla arracana* McClelland, 1844

Anguilla brevirostris McClelland, 1844

Anguilla elphinstonei Sykes, 1839

Anguilla nebulosa McClelland, 1844

Anguilla variegata McClelland, 1844

Muraena bengalensis Gray, 1831

Muraena labiata Peters, 1852

Muraena macrophthalmos Peters, 1852

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: VU A2d ver 3.1

Justification: The fish is found in some big river systems and hill stream areas of Bangladesh. In spite of its wide distribution, the species has been experiencing a suspected population decline, at least about 30% during the last ten years, due to its habitat loss and perceived over-exploitation for export (Ahmed 2014, Ahmed *et al.* 2015). Earlier, the fish was assessed as Vulnerable in Bangladesh. The prevailing threats are unlikely to halt in near future and in the absence of any targeted conservation measures the Vulnerable Category is retained for the species.

Date Assessed: 20 November 2014

History

Regional Status: The taxon has been considered as Vulnerable (VU) earlier in IUCN Bangladesh 2000.



Anguilla bengalensis

© Balaram Mahalder

Geographic Range

Global: The species is recorded from Bangladesh, India, Myanmar, Nepal, Pakistan, Sri Lanka, and also in southeast Africa. (Jacoby *et al.* 2014)

Bangladesh: It is reported from the rivers Padma, Meghna, Jamuna and Brahmaputra (Sada 2007). It is also found in the hill-streams of Mymensingh and Chittagong Hill Tracts (Rahman pers. comm.), Karnafuli Reservoir, Chittagong; and Kangsha River near Netrokona. It descends to the Bay of Bengal during rainy season. (Rahman 2005)

EOO: 1,08,672 km²

AOO: 4,731 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on the total population of the taxon is not currently available.

Trend: The population of the species has probably declined by 30% throughout its habitat ranges in Bangladesh due to overexploitation and habitat degradation over the last ten years (Ahmed *et al.* 2015) also noted a significant decline in its population.

Habitat and Ecology

The fish inhabits fresh and brackish waters and found in big rivers, estuaries; and hill streams, and sometimes enter into Ocean. It occupies various niches in river systems from quiet undisturbed areas containing mud substrate to deep water, fast-flowing rock pools of rivers (Bell-Cross and Minshull 1988 cited in Jacoby *et al.* 2014). *Anguilla bengalensis* is a semelparous and catadromous species. Juveniles feed on insects and other aquatic invertebrates. During breeding season it travels to river mouths and breeds in the ocean and the juveniles migrate into freshwaters, large rivers and estuaries (Jacoby *et al.* 2014). It is a predatory fish, especially prey on crabs, frogs and fish, and active at night (Sada 2007).

Assessor: Md. Monirul Islam

Gudusia chapra

Species ID: FI0062

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	CLUPEIDAE

Scientific Name: *Gudusia chapra* (Hamilton, 1822)

English Name: Indian River Shad

Bengali Name: Chapila, Chaipla, Suiya, Khaira

Synonym/s: *Clupanodon chapra* Hamilton, 1822

Gadusia chapra Hamilton, 1822

Clupea chapra Hamilton, 1822

Clupea indica Gray, 1834

Gudusia godanahiai Srivastava, 1968

Taxonomic Notes: None



Gudusia chapra

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: VU A2cd ver 3.1

Justification: *Gudusia chapra* occurs in rivers, reservoirs, ponds, lakes, beels, canals and floodplains throughout the country and is fairly common within its habitat ranges (Saha 2007). It is apparent that its population has declined due to habitat loss and indiscriminate harvesting (Ahmed 2002) and also its production has declined by about 48% from beel habitats over the last 10 years (FRSS 2012). But, no empirical data or information is available on declining population from other water body types of the country. In contrast, in Kaptai Lake a 50% increase in production has been observed over the last 10 years (FRSS 2012). Although, the estimated Extent of Occurrence (2,17,467.88 km²) and the Area of Occupancy (11,856.77 km²) values are higher than the upper thresholds for IUCN Redlist Vulnerable category, however, considering its population decline caused due to potential levels of exploitation and habitat loss, and continued widespread threats, the species is assessed as Vulnerable.

Date Assessed: 20 November 2014

History

Regional Status: The species has been considered Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: This species is reported from Bangladesh, India, Malaysia, Myanmar, Nepal and Pakistan (Saha 2007).

Bangladesh: The species is distributed widely in the country and known to inhabit all rivers and streams. It is also found in reservoir, haors, baors, ponds and floodplains (Rahman 2005, Saha 2007).

EOO: 2,17,468 km²

AOO: 11,857 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: There are confronting reports on the population trend of the species. There is an estimated 48% decline in its catches in beel fishery over the last 10 years (FRSS 2012). Declining trend was also observed in some parts of its distribution range in the country due to over-exploitation (Azadi *et al.* 1997, Ahmed 2002). However, in Kaptai Lake a 50% increase in its production was reported over the last 10 years as a result of adoption of new management policy (FRSS 2012).

Habitat and Ecology

This is a freshwater; pelagic fish and found in ponds, beels, canals and rivers. The fish is omnivore and surface feeder in habit, feeds mainly on phytoplankton, zooplankton, debris, plant and animal matters (Saha 2007). The species avoids weedy areas and prefers clear water.

Assessor: Md. Sagir Ahmed



Lepidocephalichthys annandalei

Species ID: FI0132

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE

Scientific Name: *Lepidocephalichthys annandalei*
Chaudhuri, 1912

English Name: Annaldale Loach

Bengali Name: Gutum, Puiya

Synonym/s: *Lepidocephalus memoni* Pillai and Yazdani, 1976
Lepidocephalus annandalei Tilak and Hussain, 1981

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: VU B1ab(i,ii,iii) ver 3.1

Justification: *Lepidocephalichthys annandalei* is distributed in the upstream rivers in the north and northeast region of Bangladesh. Although there is no information on its population, it is assumed that population has declined significantly across its range due to habitat loss particularly for the construction of dams in the upstream rivers, siltation, lifting of sands from river beds and construction of flood control dams. Moreover, its Extent of Occurrence (1,02,301.79 km²) is within the threshold level for Vulnerable Category. So, the species is assessed as Vulnerable.

Date Assessed: 17 December 2014

History

Regional Status: It was considered as Not Threatened (IUCN Bangladesh 2000).



Lepidocephalichthys annandalei

© Md. Mizanur Rahman

Geographic Range

Global: Bangladesh, India and Nepal (Tapwar and Jhingran 1991, Rahman 2005).

Bangladesh: *L. annandalei* occurs in the Tangan River in Thankurgaon, the Tista River of Northern Bangladesh and Muhuri River of Feni (Rahman 2005). It is also reported from Sunamgonj hoar areas, Kaptai Lake, Padma River and Korotoa River near Nilfamari (Latifa *et al.* In Press)

EOO: 1,02,302 km²

AOO: 5,403 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It inhabits clear, swift streams with sandy bottom (Rahman 2005). It feeds mainly on mud and organisms of the benthic region (Shafi and Quddus 1982).



Assessor: Sumaiya Ahmed

Lepidocephalichthys irrorata

Species ID: FI0134

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE

Scientific Name: *Lepidocephalichthys irrorata* Hora, 1921

English Name: Loktak Loach

Bengali Name: Puiya

Synonym/s: *Lepidocephalus irrorata* Banareescu and
Nalbant, 1968

Lepidocephalus irroratal Menon, 1992

Taxonomic Notes: *Cobitis guntea* was described only from Ganges River by Hamilton (1822). Later it was placed under the genus *Lepidocephalus*. There was confusion over its generic placement as *Lepidocephalus* or *Lepidocephalichthys*. The correct placement of the species is under *Lepidocephalichthys* (Havird and Page 2010).

Assessment Information

Red List Category & Criteria: VU B1ab(i,ii,iii iv)+2ab(ii,iii,iv) ver 3.1

Justification: *Lepidocephalichthys irrorata* was recorded from the Muhuri River, Feni River and streams of Sylhet by Rahman (1989). However, since then, there was no published record on the species in Bangladesh. During 2008-13, the fish was observed in the River Someswari in Susong Durgapur, Netrokona, Jaflong, Sylhet, the Old Brahmaputra, Mymensingh Sadar and the Kanchan River near Dinajpur town (several incidences of pers obs). Given the threats facing the habitat/location where the fish is found it can be said that its habitat quality will deteriorate further and population will further decline, and hence *L. irrorata* is assessed as Vulnerable.

Date Assessed: 15 January 2015



Lepidocephalichthys irrorata

© Md. Mizanur Rahman

History

Regional Status: It was considered as Data Deficient (IUCN Bangladesh 2000).

Geographic Range

Global: It occurs in Bangladesh and India (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It occurs in the River Someswari in Susong Durgapur, Netrokona, Jaflong, Sylhet, the Old Brahmaputra, Mymensingh Sadar and the Kanchan River near Dianajpur Town (Rahman 1989, Hasan *et al.* 2012).

EOO: 26,300 km²

AOO: 1,186 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It inhabits flowing waters in shallow, slow-moving sections of streams or calm habitats such as swamps, oxbow lakes, brackish waters and paddy fields often heavily-vegetated or littered with submerged roots, branches and leaf litter, with substrates composed of soft mud or silt. *L. irrorata* uses its intestine as a supplementary breathing organ and has been observed darting to the surface to gulp atmospheric air, and some have even been recorded to survive dry periods in moist sand or mud. Feeds through sifting mouthfuls of substrate through the gills from which insect larvae and small crustaceans are extracted (Talwar and Jhingran 1991).

Assessor: Mostafa Ali Reza Hossain



Aspidoparia morar

Species ID: FI0040

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Aspidoparia morar* (Hamilton, 1822)

English Name: Aspidoparia

Bengali Name: Morari, Morar, Piali, Piasi

Synonym/s: *Cabdio morar* Hamilton, 1822

Cyprinus morar Hamilton, 1822

Leuciscus morar Hamilton, 1822

Morara morar Hamilton, 1822

Aspidoparia sardina Heckel, 1845

Aspidoparia morar Day, 1878

Taxonomic Notes: The species is described as *Cabdio morar* in IUCN Global Redlist of Threatened Species (2010), which appears to be a synonym of *Aspidoparia morar*.



Aspidoparia morar

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: VU A2c; B2ab(ii,iii) ver 3.1

Justification: *Aspidoparaia morar* is less common in Bangladesh and found in the upper reaches of the Padma and Jamuna Rivers and their tributaries. The estimated Area of Occupancy (AOO) is 1,846.24 km², which is less than the upper threshold for IUCN Red List Vulnerable Category. The population abundance of the species is also suspected to be declined significantly during the last 10 years with a continuous reduction in its habitat with fragmentation of its places of occurrence (Galib *et al.* 2013, Ahmed *et al.* 2015), primarily due to continued dynamic siltation of rivers in the upland areas and pollution of water bodies, hence it is considered as Vulnerable.

Date Assessed: 25 June 2014

History

Regional Status: The taxon has been assessed Data Deficient (DD) earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: The species is distributed in Afghanistan, Bangladesh, India, Iran, Myanmar, Nepal, Pakistan and Thailand. The taxonomic identity of the records in Iran, Myanmar, Pakistan and Thailand needs to be confirmed (Choudhury 2010).

Bangladesh: It is found in the lower and upper reaches of Padma and Jamuna Rivers and their tributaries (Ahmed 2007, Hossain 2010, Galib *et al.* 2013).

EOO: 47,768 km²

AOO: 1,846 km²

Population

Generation Time (Length): Unknown. However, the minimum population doubling time is less than 15 months (Breder and Rosen 1966: cited in Ahmed 2007).

Total Population: Total population of the species is unknown but it is found in small quantities in fishers' catches (Ahmed 2007) and are relatively less common.

Trend: It is suspected that the population of the fish has declined significantly during the last 10 years and it has currently become rare in the country (Galib *et al.* 2013, Ahmed *et al.* 2015).

Habitat and Ecology

The fish inhabits freshwater and occurs in rivers, streams, ditches and ponds in floodplains. It is a benthopelagic species, feeds on insects, benthic organisms and detritus.

Assessor: Balaram Mahalder

Associate Assessor/s: Md. Golam Mustafa.



Chagunius chagunio

Species ID: FI0071

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Chagunius chagunio* (Hamilton, 1822)

English Name: Chaguni

Bengali Name: Jarua, Utti

Synonym/s: *Puntius chagunio* (Hamilton, 1822)

Cyprinus chagunio Hamilton, 1822

Rohita chagunio (Hamilton, 1822)

Barbas chagunio (Hamilton, 1822)

Barbas beavani Gunther, 1868

Barbas spilopholus McClelland, 1839

Taxonomic Notes: None



Chagunius chagunio

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: VU B2b(iii)c(ii) ver 3.1

Justification: The species has limited distribution in some northern districts of Bangladesh, however, the exact number of locations are not known. As per local accounts, the population of the species and its habitat range are declining due to massive siltation and drying up of northern rivers of the country and intense fishing pressure. The estimated Area of Occupancy (843.29 km²) of the species is less than the upper threshold value for the IUCN Red list vulnerable category. Hence, *Chagunius chagunio* is assessed as Vulnerable.

Date Assessed: 16 March 2015

History

Regional Status: The species has been assessed as Data Deficient (DD) (IUCN Bangladesh 2000).



Geographic Range

Global: *Chagunius chagunio* occurs in the Ganges and Brahmaputra drainages of northern and northeastern Bangladesh, India, Myanmar, Nepal, Thailand and Pakistan (Kader 2007).

Bangladesh: The species is reported from the streams of Chittagong Hill Tracts, Dinajpur, Rangpur, Mymensingh and Sylhet District (Rahman 2005).

EOO: 1,04,368 km²

AOO: 843 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is unknown. However, this species is fairly common in streams of Dinajpur, Rangpur, Mymensingh, Sylhet, and Chittagong Hill Tracts (Rahman 2005). It is relatively less abundant than the other species of carps.

Trend: No information is available on the population trend of this species. However, local accounts suggest that the population abundance is declining (pers. obs.).

Habitat and Ecology

Chagunius chagunio inhabits freshwater and occurs in highland fast flowing rivers and tributaries containing clear water and substrates of rock, gravel and sand. This fish is demersal and potamodromous. It is omnivorous in habit and feeds mainly on insects, algae and detritus. Its movement is fairly restricted.

Assessor: Mst. Kaniz Fatema

Chela cachius

Species ID: FI0018

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Chela cachius* (Hamilton, 1822)

English Name: Silver Hatchlet Barb

Bengali Name: Chhep chela

Synonym/s: *Cyprinus cachius* Hamilton, 1822

Cyprinus apter Hamilton, 1822

Perilampus apter Day, 1878

Chela apter Rahman, 1974

Taxonomic Notes: None.

Assessment Information

Red List Category & Criteria: VU A2cd ver 3.1

Justification: *Chela cachius* is fairly common and widespread species in all freshwater habitats (haor, baor, beels, floodplain, canals, ditches, ponds, rivers and streams) in Bangladesh. Recent survey indicates that its population has declined over 30% in last ten years due to pollution (industrial effluents, pesticides and agrochemicals) and habitat destruction. Siltation, drying up of habitats, destruction of breeding grounds and fishing by dewatering are the major threats to the species. So, the species is assessed as Vulnerable.

Date Assessed: 25 June 2014

History

Regional Status: It was considered as Data Deficient (IUCN Bangladesh 2000).



Chela cachius

© Md. Mizanur Rahman

Geographic Range

Global: Its range includes Bangladesh, India, Myanmar and Pakistan (Talwer and Jhingran 1991, Rahman 2005).

Bangladesh: Found in Brahmaputra- Jamuna River (Rahman and Akhter 2007), Chalan Beel (Kostori *et al.* 2011), Chandpur (Rahman 2005), Feni-Muhuri River (Haroon *et al.* 1989), Matshaya Rani Fish Sanctuary - Brahmaputra River (Hasan *et al.* 2012), Noakhali (Hossain 2013), Padma River- Rajshahi (Hossain and Haque 2005), Titas River- Brahmanbaria (Ahmed and Akther 2008), Rivers and Haors of Moulvibazar, Sylhet and Sunamgonj (Surma River, Kushiara River, Hakaluki Haor, Kawadhighi Haor, Deker Haor, Sanghair Haor), ponds, ditches, canals and tanks throughout the country (Rahman 2005).

EOO: 78,908 km²

AOO: 1,334 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Recent survey indicates that its population has declined over 30% in last 10 years due to pollution and habitat destruction.

Habitat and Ecology

It inhabits all freshwater habitats but prefers stagnant streams, ponds and tanks (Rahman 2005). Spawning takes place in ponds, tanks and small streams (Talwer and Jhingran 1991). The species can be utilized as larvaecidal fish.

Assessor: Mohammad Ali Azadi

Associate Assessor/s: Mohammad Arshad-ul-Alam



Danio dangila

Species ID: FI0075

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Danio dangila* (Hamilton, 1822)

English Name: Dangila Danio, Moustached Danio, Olive Danio

Bengali Name: Nipati, Gofi Chela

Synonym/s: *Cyprinus dangila* Hamilton, 1822

Perilampus reticulatus McClelland, 1839

Danio dangila Day, 1878

Danio meghalayensis Sen & Dey, 1985

Taxonomic Notes: This species has the longest pairs of barbels among *Danio spp.* which enables it to be easily identified.



Danio dangila

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: VU B2ab(ii,iii,iv) ver 3.1

Justification: *Danio dangilla* is found in hill stream and its adjoining water bodies, particularly in the south-eastern part of the country and presently the species is known only from six or seven locations. The population of the species also shows a declining trend (Ahmed *et al.* 2015). Habitat loss caused due to siltation and aquatic pollution. These are the major threats to the species. The estimated Area of Occupancy (1,153 km²) is below the upper threshold value for the IUCN Red List Vulnerable Category. Hence, the fish is assessed as Vulnerable.

Date Assessed: 20 August 2014

History

Regional Status: This species has been considered as Data Deficient (DD) earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: This fish is known from Bangladesh, India, Myanmar, Nepal and Pakistan (Rahman and Chowdhury 2007).

Bangladesh: *Danio dangila* has been reported from the mountain streams of Cox's Bazar, (Barachara, Inani, Himchori and Teknaf hill streams) extreme upstream of Someshwari River (area located at the base of Meghalaya hills), upstream of Chittagong Hill Tracts area, also from the area located at the base of Meghalaya hills in Sylhet (Ahmed *et al.* 2015).

EOO: 44,743 km²

AOO: 1,153 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on total population is not available.

Trend: Decreasing (Ahmed *et al.* 2015).

Habitat and Ecology

The fish inhabits freshwater and occurs in slow moving to stagnant standing water bodies, particularly the hill streams, canals, ditches, ponds and beels near the mountains. *D. dangila* is a benthopelagic fish, feeds on worms and small crustaceans, also on insect larvae (Rahman and Chowdhury 2007). In hill streams, the species prefers rocky and stony bottom (Ahmed *et al.* 2015). It is a schooling species.



Assessor: Md. Mizanur Rahman

Labeo ariza

Species ID: FI0084

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Labeo ariza* (Hamilton, 1807)

English Name: Ariza Labeo

Bengali Name: Lasso, Raik, Bata

Synonym/s: *Cirrhinus ariza* Hamilton, 1807

Cyprinus ariza Hamilton, 1807

Labeo ariza Hamilton, 1807

Tylognathus ariza Hamilton, 1807

Labeo ariza Day, 1887

Taxonomic Notes: The generic status of this fish is under debate. Roberts (1997) considered this species as *Cirrhinus ariza* while Talwar and Jhingran (1991) and Menon (1999) have considered this species as *Labeo ariza*. Liu and Zhou (2009) consider this species as *Bangana ariza*. In IUCN Global Redlist, the species was also treated as *Bangana ariza*.



Labeo ariza

© Balam Mahalder

Assessment Information

Red List Category & Criteria: VU B1ab(ii,iii,iv) ver 3.1

Justification: *L. ariza* is reported from limited areas of the country. The estimated Extent of Occurrence (14,180 km²) of the fish is less than the upper threshold for IUCN Vulnerable Category. The Area of Occupancy (2,788 km²) is also nearer to upper threshold for Vulnerable Category. Considering existing major threats, such as the habitat loss, aquatic pollution and over fishing, the population of the species shows a declining trend. The fish is therefore considered as Vulnerable.

Date Assessed: 24 August 2014

History

Regional Status: *L. ariza* has not been assessed earlier in Bangladesh.

Geographic Range

Global: It has a wide distribution in Pakistan, India, Nepal, Bangladesh and Myanmar (Roberts 1997, Menon 1999, Dahanukar 2010).

Bangladesh: This species is reported from Chalan Beel, Natore (Hossain *et al.*, 2009) and Halda River, Chittagong (Azadi and Arshad-Ul-Alam 2013).

EOO: 14,180 km²

AOO: 2,788 km²

Population

Generation Time (Length): Unknown.

Total Population: Currently, no population status data is available.

Trend: The population trend is probably declining.

Habitat and Ecology

The species inhabits freshwater, found in clear rivers and tanks, ponds, beels and inundated fields. It is a benthopelagic, potamodromous fish and feeds on plankton and detritus. It is a prolific breeder, laying about 3 million ova per female. Male is smaller than female. Its fingerlings grow fairly rapid. It breeds in flooded shallows from June to September (Talwar and Jhingran 1991).



Assessor: M. Niamul Naser

Associate Assessor/s: Gawsia Wahidunessa Chowdhury

Labeo boggut

Species ID: FI0087

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Labeo boggut* (Sykes, 1839)

English Name: Boggut Labeo

Bengali Name: Ghonia, Paharia Maach, Naru Maach

Synonym/s: *Chondrostoma boggut* Sykes, 1839

Tylognathus striolatus Günther, 1868

Labeo boggut Day, 1878

Taxonomic Notes: None



Labeo boggut

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: VU B1+2ab(iii,iv) ver 3.1

Justification: *Labeo boggut* is known from the northwestern and northeastern parts of Bangladesh. The estimated Extent of Occurrence (EOO) is 5,585.78 km² and the Area of Occupancy (AOO) is 1,793.79 km². Both the values are below the threshold values for the IUCN Redlist Vulnerable Category. Moreover, the species is rare within the country. Considering the above and in the absence of any conservation activities targeting the species, it is assessed as Vulnerable.

Date Assessed: 24 August 2014

History

Regional Status: This species has been assessed Data Deficient (DD) earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Labeo boggut* has been recorded from Bangladesh, India and Pakistan (Talwar and Jhingran 1991).

Bangladesh: It is found in the northwestern and northern hilly parts of the country and particularly it has been reported from Kangsha River, Somshwari River of Netrokona District (Ahmed *et al.* 2013) and from haor areas of Sunamgonj District (Mahalder and Mustafa 2013).

EOO: 5,586 km²

AOO: 1,794 km²

Population

Generation Time (Length): Population generation time is unknown, however, population doubling time is less than 15 months.

Total Population: Information on total population of this species is not available. However, presently it is rarely found (Rahman 2005, Mohsin 2007).

Trend: Exact population trend of this is not known, but apparently it is declining.

Habitat and Ecology

Labeo boggut inhabits tropical freshwater and found in rivers and reservoirs (Menon 1999), particularly in the upper reaches of the rivers (Mohsin 2007). It is a benthopelagic species and plankton feeder.



Assessor: M. Niamul Naser

Associate Assessor/s: Gawsia Wahidunnessa Chowdhury

Osteochilus hasseltii

Species ID: FI0097

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Osteochilus hasseltii* (Valenciennes, 1842)

English Name: Bonylip Barb, Hard-lipped Barb, Silvershark Minnow

Bengali Name: Not known.

Synonym/s: *Rohita hasseltii* Cuvier and Valenciennes, 1842

Osteochilus hasselti Valenciennes, 1842

Rohita rostellatus Valenciennes, 1842

Rohita erythrura Valenciennes, 1842

Rohita kuhli Bleeker, 1860

Taxonomic Notes: None



Osteochilus hasseltii

© Terry Warren - fishbase.org

Assessment Information

Red List Category & Criteria: VU B2ab(ii,iii,iv) ver 3.1

Justification: *Osteochilus hasseltii* is reported from eight Upazilas of Greater Noakhali District (Hossain *et al.* 2014) and has not been reported from anywhere else in the country. The estimated Extent of Occurrence (4,115.06 km²) and Area of Occupancy (2,147.58 km²) are around the upper threshold values for the IUCN Vulnerable Category. Several major threats, viz. aquatic pollution, habitat loss and overfishing probably affect its population in the country (Hossain *et al.* 2014). It is apparent that the fish is potentially threatened and hence, it is assessed as Vulnerable.

Date Assessed: 20 October 2014

History

Regional Status: This taxon has not been assessed in Bangladesh earlier.

Geographic Range

Global: *Osteochilus hasseltii* is reported from Bangladesh (Hossain *et al.* 2011), Cambodia, China (Yunnan), Indonesia (Jawa, Kalimantan, Sumatera), Lao People's Democratic Republic, Malaysia (Peninsular Malaysia, Sarawak), Myanmar (mainland), Thailand and Viet Nam (Vidthayanon 2012).

Bangladesh: It has been reported from eight Upazilas of Feni District, Dagonbhuya, Companiganj, Zaminderhat, Chamuhani, Majidee, Ramgati and Ramganj of the Greater Noakhali District during July-October, 2011.

EOO: 4,115 km²

AOO: 2,148 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Osteochilus hasseltii is a freshwater benthopelagic fish and inhabits a wide range of freshwater habitats from lowland marshlands, peat swamps, rivers and tributaries to hill streams. The adult fish feeds on roots of plants (*Hydrilla verticillata*), unicellular algae and some crustaceans. It migrates from river to flooded areas during the onset of the flood season and returns to river habitats at the end of that period. Juveniles are usually seen first in August, they move back to permanent water as flooded lands dry up. Back in the rivers they are attached to brush piles, tree roots and other solid objects.

Assessor: Mostafa Ali Reza Hossain



Pethia ticto

Species ID: FI0

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Pethia ticto* (Hamilton, 1822)

English Name: Two-spot Barb, Firefin Barb, Ticto Barb

Bengali Name: Tit punti

Synonym/s: *Cyprinus ticto* Hamilton, 1822

Barbus ticto Day, 1878

Systema ticto McClelland, 1853

Puntius ticto Rahman, 1974

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: VU A2cd ver 3.1

Justification: *Pethia ticto* is widely distributed in inland waters of Bangladesh. The species was previously abundant in the rivers, creeks, canals, reservoirs, lakes, beels, haors, baors and ponds of Bangladesh. Recent surveys and personal visits indicate that its population has declined over 30% during the last ten years due to over exploitation and habitat destruction (Latifa *et al.* In Press, M. S. Ahmed, pers. comm.). Therefore, the species is assessed as Vulnerable (VU).

Date Assessed: 21 January 2015

History

Regional Status: It was considered Vulnerable (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India, Myanmar, Nepal, Pakistan, Sri Lanka and Thailand (Goswami *et al.* 2012).



Pethia ticto

© Mostafa A R Hossain

Bangladesh: It occurs in rivers, canals, beels, ponds and similar waters in Bangladesh (Rahman 1989, Mian *et al.* 2013).

EOO: 2,17,468 km²

AOO: 11,128 km²

Population

Generation Time (Length): Unknown.

Total Population: No information is available on wild population and its trends.

Trend: Declining.

Habitat and Ecology

It inhabits rivers, canals, beels, ponds and lowlands with sand and mud substrate (Rahman 1989). It can live in both fresh and brackish waters. It is an omnivorous fish, feeding on mosquito larvae, detritus, vegetation and associated aquatic insects, including chironomid larvae.

Assessor: Md. Enamul Hoq

Sicamugil cascasia

Species ID: FI0214

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	MUGILIFORMES	MUGILIDAE

Scientific Name: *Sicamugil cascasia* (Hamilton, 1822)
English Name: Yellowtail Mullet
Bengali Name: Bata, Kachki, Kachki Bata, Kechi Khalla
Synonym/s: *Mugil cascasia* Hamilton, 1822
Liza cascasia Munro, 1955
Taxonomic Notes: None



Sicamugil cascasia

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: VU B2ab(ii,iii) ver 3.1

Justification: *Sicamugil cascasia* is occasionally reported from some rivers in the middle and north-eastern part of Bangladesh. Although Extent of Occurrence of this species is higher than the threshold level of Vulnerable Category (>20,000 km²), it meets the Criteria of Vulnerable Category as Area of Occupancy is less than 2,000 km² and the number of locations of its occurrence is less than 10 and furthermore, there is a continuing decline in quality of habitat due to construction of dam, sand and stone lifting from river bed. Hence, the species is assessed as vulnerable.

Date Assessed: 19 December 2014

History

Regional Status: It is listed as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: This species is found in Bangladesh, India and

Pakistan (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It is found in some selected freshwater rivers of Bangladesh, especially in the Brahmaputra River (Rahman 2005), the Padma River (Hossain and Haque 2005) and the Mohananda River (Nahar *et al.* 2011).

EOO: 37,696 km²
AOO: 950 km²

Population

Generation Time (Length): Unknown.
Total Population: Unknown.
Trend: Unknown.

Habitat and Ecology

It is a potamodromous species (Riede 2004). It is oviparous, eggs are pelagic and non-adhesive (Breder and Rosen, 1966). This is purely a freshwater species, found in big as well as small rivers (Rahman 2005, Hossain and Haque 2005, Chandra 2009, Nahar *et al.* 2011).



Assessor: Md. Monirul Islam

Notopterus notopterus

Species ID: FI0045

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	OSTEOGLOSSIFORMES	NOTOPTERIDAE

Scientific Name: *Notopterus notopterus* (Pallas, 1769)

English Name: Grey Featherback, Freshwater Knife Fish

Bengali Name: Foli, Haila, Kanla

Synonym/s: *Gymnotus notopterus* Pallas, 1769

Mystus kapirat Hamilton, 1822

Notopterus kapirat Day, 1878

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: VU B2b(ii,iii)c(ii) ver 3.1

Justification: *Notopterus notopterus* is widely distributed throughout the country and inhabits a wide variety of water bodies, including rivers, canals, beels, floodplains and ponds. Although, it is found in good numbers in markets (Alam 2007), however, the species shows a clear declining population trend (Ahmed *et al.* 2015). The decline in population abundance may also be inferred from the reduction in its habitat and several other prevailing widespread threats, including siltation, over-exploitation and aquatic pollution, which are unlikely to be removed in near future. The fish was earlier assessed as Vulnerable in Bangladesh. Therefore, the Vulnerable category is retained for the species.

Date Assessed: 21 August 2014

History

Regional Status : The taxon has been assessed as Vulnerable (VU) earlier in Bangladesh (IUCN Bangladesh 2000).



Notopterus notopterus

© Balam Mahalder

Geographic Range

Global: The species is recorded from Bangladesh, Cambodia, India, Indonesia, Laos, Malaysia, Myanmar, Nepal, Pakistan, Thailand and Viet Nam (Ng 2010).

Bangladesh: They are found all over Bangladesh in all kinds of water bodies (Alam 2007). However, specifically they have been reported from Tanguar Haor, Hakaluki Haor, Marjat Baor, Chalan Beel and Sundarbans (Akhter *et al.* 2011, Alam *et al.* 2012, IPAC 2013).

EOO: 2,17,468 km²

AOO: 11,964 km²

Population

Generation Time (Length) Unknown.

Total Population: Information on the total population of the fish is not available

Trend: Earlier the fish was common throughout its habitat ranges. However, currently it shows a continued decline in its abundance (Alam 2007, Ahmed *et al.* 2015).

Habitat and Ecology

This fish inhabits a wide range of freshwater bodies, including rivers, canals, floodplains, beels and ponds throughout Bangladesh. The species is carnivore and predatory in nature and it feeds on small fish, larvae and aquatic arthropods, small crustaceans and zooplanktons. It breeds in stagnant or running waters during the months of May-June. Parental care observed in the breeding period and males protect the eggs (Alam 2007).

Assessor: Gawsia Wahedunessa Chowdhury



Awaous grammepomus

Species ID: FI0019

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Awaous grammepomus* (Bleeker, 1849)

English Name: Scribbled Goby

Bengali Name: Shil Baila, Bele

Synonym/s: *Gobius grammepomus* Bleeker, 1849

Gobius personatus Day, 1876

Awaous grammepomu Kaumans, 1953

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: VU B2ab(iii) ver 3.1

Justification: Although Extent of Occurrence (EOO) > 20,000 km², of this species is higher than the threshold level of Vulnerable Category, however it meets the criteria of Vulnerable Category as Area of Occupancy (AOO) is less than 2,000 km² and it also occurs in less than 10 locations. Furthermore, there is a continuous decline in quality of habitat due to sand and stone lifting from river bed. Another threat is domestic and urban sewage pollution in hilly urban area. No data were found on its population and population size. Considering all these factors it can be considered as the Vulnerable Category based on Criteria B.

Date Assessed: 25 June 2014

History

Regional Status: The species was assessed as Not Threatened (NO) (IUCN Bangladesh 2000).



Awaous grammepomus

© Md. Sagir Ahmed

Geographic Range

Global: It occurs in Bangladesh, Cambodia, East Indies, India, Malaysia, Myanmar, New Guinea, Philippines, Sri Lanka, Southern China, Taiwan, Thailand and Viet Nam (Pethiyagoda 1991, Talwer and Jhingran 1991, Rahman 2005)

Bangladesh: It lives in Dakatia, Kangsa, Meghna, Sangu and Someswari Rivers as well as in the hilly streams of Bandarban, Cox's Bazar and Rangamati Districts (Rahman 2005, Ahmad *et al.* 2013, M.M. Rahman pers.comm. 2014).

EOO: 41,193 km²

AOO: 1,367 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Recent survey indicates that its population has declined over 30% in last 10 years due to pollution and habitat destruction.

Habitat and Ecology

Freshwater; hilly streams, rivers, enters in estuaries. Usually found in streams with gravel or sandy bottom. Benthopelagic species, feeds on filamentous algae, insect larvae, small fishes and crustaceans.



Assessor: Mohammad Arshad-ul-Alam

Associate Assessor/s: Mohammad Ali Azadi

Eugnathogobius oligactis

Species ID: FI0034

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Eugnathogobius oligactis* (Bleeker, 1875)

English Name: Tiger Goby

Bengali Name: Bele

Synonym/s: *Pseudogobiopsis oligactis* Bleeker, 1875

Gobiopsis oligactis Bleeker, 1875

Stigmatogobius oligactis Bleeker, 1875

Pseudogobius neglectus Bleeker, 1931

Stigmatogobius neglectus Koumans, 1932

Pseudogobiopsis campbellianus Jordan &

Seale, 1907

Mugilogobius perakensis Herre, 1940

Taxonomic Notes: None



Eugnathogobius oligactis

© Michael Taxacher

Assessment Information

Red List Category & Criteria: VU B1+2b(i,ii) ver 3.1

Justification: *Eugnathogobius oligactis* occurs in the lower reaches of tidal rivers and estuaries. It is found in small quantities in the fish catches. The estimated Area Extent of Occurrence (75,282.64 km²) and Area of Occupancy (12,073.80 km²). Considering the reduction in its habitat and prevailing threats and in the absence of any conservation activities, the species is assessed Vulnerable (VU).

Date Assessed: 25 June 2014

History

Regional Status: The taxon has not been evaluated earlier in Bangladesh.

Geographic Range

Global: The species occurs in Bangladesh, Brunei, Cambodia, India, Indonesia, Malaysia, Singapore, and Thailand (Rahman and Akter 2007).

Bangladesh: The species occurs in Bangladesh, Brunei, Cambodia, India, Indonesia, Malaysia, Singapore and Thailand (Rahman and Akter 2007).

EOO: 75,283 km²

AOO: 12,074 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

The species is found in tidal rivers and estuaries of coastal areas of the country (Rahman and Akter 2007). It is a benthic fish and predator in nature, feeds on small fishes and invertebrates.



Assessor: Syeda Ismat Ara

Associate Assessor/s: Mohammad Ali Azadi

Amblyceps laticeps

Species ID: FI0160

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	AMBLYCIPITIDAE

Scientific Name: *Amblyceps laticeps* (McClelland, 1842)

English Name: Indian Torrent Catfish

Bengali Name: Chotta Shinghi

Synonym/s: *Olyra laticeps* McClelland, 1842

Taxonomic Notes: None.

Assessment Information

Red List Category & Criteria: VU B2ab ver 3.1

Justification: *Amblyceps laticeps* is well distributed in its habitat range. As it is a non-targeted fish for consumption, the potential threats were not identified earlier but recent study locations suggested that the degradation of habitat quality and the decline of Area of Occupancy. It is distributed in 10 sites only. However, its Extent of Occurrence is much higher than the threshold for Threatened Categories but Area of Occupancy is estimated to be 1,448.77 km². Therefore, this species has been assessed as Vulnerable considering its Area of Occurrence and habitat loss.

Date Assessed: 15 February 2015

History

Regional Status: Not assessed in the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: The species has been recorded from Bangladesh



Amblyceps laticeps

© Md. Mizanur Rahman

and India (Meghalaya and northern West Bengal) (Ng 2005).

Bangladesh: *Amblyceps laticeps* is reported from the Piyang and Sari Rivers of Sylhet. This species is also found in lower reaches of Himchori hill streams of Cox's Bazar and Madhabkundo hill stream of Moulvi Bazar District and Chittagong University Campus hill streams. Also reported from the Tanguar Haor of Sunamganj, the Korotoa, Atrai and Mahananda Rivers of Northern region of the country (Hossain *et al.* 2012).

EOO: 1,16,846 km²

AOO: 1,449 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is carnivorous in habit and feeds on aquatic insects. It hides under the rocks and pebbles at the bottom of streams. This species inhabits faster-flowing hill streams and rivers with a bottom of sand/rocks (Ng 2005, Ahmed *et al.* 2015).



Assessor: Md. Mizanur Rahman

Sperata aor

Species ID: FI0149

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Sperata aor* (Hamilton, 1822)

English Name: Long-whiskered Catfish

Bengali Name: Ayre, Bhangat, Talla Ayre

Synonym/s: *Pimelodus aor* Hamilton, 1822;

Macrones aor Day, 1878;

Mystus (Osteobagrus) aor Jayaram, 1955;

Mystus aor Bhuiyan, 1964;

Aorichthys aor Jayaram, 1977.

Taxonomic Notes: None



Sperata aor

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: VU A2bc ver 3.1

Justification: The species occurs throughout Bangladesh and inhabits most rivers and its tributaries, and its Extent of Occurrence and Area of Occupancy are much higher than the lower thresholds for any threatened category. However, the species shows continued population decline and was previously assessed as Vulnerable (IUCN Red List 2000). Recent field visits (Ahmed *et al.* 2015, and pers. obs) suggest that threats are not removed and declining trend in population still continues, albeit at a much slower rate. Considering the habitat loss and fishing pressure and other threats, the species is assessed as Vulnerable.

Date Assessed: 27 August 2014

History

Regional Status: It was assessed as Vulnerable (IUCN Bangladesh 2000).

Geographic Range

Global: *Sperata aor* occurs in Bangladesh, India, upper Myanmar, Nepal and Pakistan (Talwar and Jhingran 1991, Ferraris and Runge 1999, Kibria 2007).

Bangladesh: Widely distributed within Bangladesh (Rahman 2005) and a number of authors reported the species from the flowing waterbodies: Padma River, Chalan Beel, Barulia Beel, Bangali River, Baral River, River Choto Jamuna, Attrai River, Meghna River, Bhairab River, Turag River, Balla Beel, "Ichhanoi Beel", Medha beel, Brahmaputra River, Titas River, Arialkha, Pungli River, Dhaleswari River, Ichamoti Kushiara River, Monu River, Pyra River, Bishkhali River, Tetulia River, Baleshwar River, Kritonkhola River, Patnai River, Someshari and Kangsha River, Surma River, Bhairab and Rupsha River, Jamuna River, Meghna River (Rahman 2005, Kibria 2007, Ahmed 2008, Hossain *et al.* 2009, Rahman *et al.* 2012).

EOO: 1,46,159 km²

AOO: 16,677 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

A freshwater species inhabits rivers and their tributaries, channels, reservoirs, large beels and occasionally found in ponds and ditches. It is a predatory fish, preys on fishes, shrimps and other bottom dwelling organisms (Rahman 2005, Kibria 2007). The fish digs out 30 to 50 cm deep pit in the bottom of slow moving or virtually stagnant portion of the river or in a beel, baor and haor where it lays eggs and guards the brood for sometime during the breeding season and maintains territory (M.A.R. Khan Pers. comm. pers. obs by the author).



Assessor: Md. Abdur Rob Mollah

Sperata seenghala

Species ID: FI0150

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Sperata seenghala* (Sykes, 1839)

English Name: Giant River-catfish

Bengali Name: Guijja, Guijja Ayre, Bhangat

Synonym/s: *Platystoma seenghala* Sykes, 1839;

Macrones seenghala Day, 1878;

Mystus seenghala Shaw and Shebbeare, 1937;

Mystus (Osteobagrus) seenghala Jayaram, 1955;

Aorichthys seenghala Jayaram, 1977

Taxonomic Notes: None



Sperata seenghala

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: VU A2bc ver 3.1

Justification: *Sperata seenghala* occurs throughout Bangladesh and is found in a wide range of water bodies. Although, the species was assessed as Endangered in the past (IUCN Bangladesh 2000), however, recent field and market surveys (NACOM 2007, 2008 and 2010, Ahmed *et al.* 2015 and pers. obs.) clearly indicate that the species is fairly abundant, although a population decline continues due to habitat loss and fishing pressure and it is inferred that about 50% decline in population might have occurred during the last 20 years. Considering the habitat loss and population decline the species is assessed as Vulnerable.

Date Assessed: 14 August 2014

History

Regional Status: This species was assessed as Endangered (IUCN Bangladesh 2000).

Geographic Range



Global: It is found in Afganistan, Bangladesh, Burma, India, Pakistan and Nepal (Talwar and Jhungran 1991, Rahman 2005).

Bangladesh: It is known to occur in Narsunda River, Padma River, Chalan Beel, Barnai River, Bangali River, Baral River, River Choto Jamuna, "Ichhanoi Beel, Mahananda River, Medha Beel, Attrai River, Arialkha, Ichamoti, Kushiara River, Monu River, Pyra River, Kritonkhola River, Bishkhali River, Tetulia River, Baleshwar River, Someshari and Kangsha River, Surma River, Meghna River (Rahman 2005, Hossain 2009, Galib *et al.* 2013).

EOO: 1,35,628 km²

AOO: 10,399 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It occurs in rivers, canals, beels, baors, inundated fields and other freshwater habitats (Chowdhury 2007). Mainly bottom-feeder and predatory in nature, feeds on benthos, fish larvae and algae. The fish excavates a pit in the form of a nest in the bottom of the river and guards the nest up to the time the of hatchings.

Assessor: Md. Abdur Rob Mollah

Wallago attu

Species ID: FI0154

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SILURIDAE

Scientific Name: *Wallago attu* (Bloch & Schneider 1801)

English Name: Freshwater Shark, Wallago

Bengali Name: Boal, Boali, Patari, Boyari, Boayair, Keyali

Synonym/s: *Silurus attu* Bloch & Schneider, 1801

Silurus boalis Hamilton, 1822

Silurus macrostomus Swainson, 1839

Wallagonia attu Smith, 1945

Silurus wallago Day, 1878

Taxonomic Notes: None



Wallago attu

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: VU A2cd ver 3.1

Justification: *Wallago attu* was enlisted in the IUCN Redlist for Bangladesh as an Endangered species (IUCN 2000) due to its highly declining population, caused by threats like siltation, overexploitation, aquatic pollution, etc. These threats still persist and there is no sign of its recovery (pers. obs.). Since the species is distributed throughout Bangladesh and expected to have a large population but recent studies (NACOM 2007, 2010a, 2010b) showed that the relative abundances of the species range from rare to less common and the population of the species is declining at a slower rate and it is inferred that the population abundance has probably declined by 60% during the last 25 years. Also some escaped specimens from fish culture ponds are getting added to the declining natural population. Considering all these factors, the species has been assessed as Vulnerable.

Date Assessed: 22 September 2014

History

Regional Status: *Wallago attu* has been considered as Endangered for the IUCN Red List, 2000.

Geographic Range

Global: *Wallago attu* occurs all over South and South-east Asia, including Pakistan, India, Nepal, Bangladesh, Myanmar, Malaysia, Indonesia, Thailand, Viet Nam, Laos and Cambodia (Taki 1974, Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: *Wallago attu* is widely distributed in all aquatic habitat systems throughout the country (Rahman 2005, Ahmed 2008, Hossain *et al.* 2009, Bashar *et al.* 2009, Akhtaruzzaman and Alam 2012).

EOO: 1,21,601 km²

AOO: 13,519 km²

Population

Generation Time (Length): Life span of the species extends from 8-10 years (<http://www.TheAquariumWiki.com>) and it attains maturity by two years. Generation time could be estimated as 7-8 years (<http://www.Planetcatfish.com>).

Total Population: Unknown.

Trend: The abundance of the species declined over a long period of time. Highly declining trend was observed during 1980s. However, during the last ten years, rate of population decline has slowed down.

Habitat and Ecology

Wallago attu inhabits rivers, large and small, beels, reservoir, baors and enters the floodplains and roadside ditches. It is a voracious, carnivorous, well known predatory fish. Because of its large mouth size, it predate on large fishes, frogs and other aquatic animals. Juveniles feed on crustaceans, insects (Mohsin 2007). For breeding purposes, the fish enters into shallower waters (Pethiyagoda 1991).

Assessor: Md Abdur Rob Mollah



Glyptothorax telchitta

Species ID: FI0167

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Glyptothorax telchitta* (Hamilton, 1822)

English Name: Copper Catfish

Bengali Name: Teli, Telchitta

Synonym/s: *Pimelodus telchitta* Hamilton, 1822

Dimelodus botius Hamilton, 1822

Glyptosternum botia Day, 1878

Glyptothorax telchitta Hora, 1923

Taxonomic Notes: Often *Glyptothorax telchitta* is misidentified as *Glyptothorax indicus* and *Conta conta* of the same family.



Glyptothorax telchitta

© Balam Mahalder

Assessment Information

Red List Category & Criteria: VU A2bc ver 3.1

Justification: Although the Area of Occupancy and Extent of Occurrence of this species indicate its wide distribution throughout the country, the reduction of its population has been conjectured from local catch. As a commercially less important species, all possible threats to this fish are not yet known. However, current low population and its declining trends can be inferred from squeezing of its natural habitats due to different anthropogenic activities. From the data of key informant interviews of surveys and personal communication with local people it is assumed that its population has reduced more than 30% during the last two decades (Ahmed *et al.* 2015). Therefore, *Glyptothorax telchitta* is assessed as Vulnerable.

Date Assessed: 15 October 2014

History

Regional Status: Considered as Data Deficient in the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: It occurs in Bangladesh, India (Arunachal Pradesh, Bihar, Madhya Pradesh, Nagaland, Uttaranchal, Uttar Pradesh, West Bengal, Nepal and Pakistan (Rahman 2005, Raknuzzaman 2007)).

Bangladesh: This species has been reported from the up streams of Shomeshwari and Kangsha Rivers of Netrokona, Surma, Piyang and Sari Rivers of Sylhet, Korotoa, Atra and Mahananda river of Northern region. Found in the Old Brahmaputra, Jamuna and in the River Padma and Buriganga. It has also been recorded from the Tanguar Haor of Sunamganj and in the high altitude of Sangu River (Rahman and Akhter 2007, Mahsin and Haque 2009, Ahmed *et al.* 2015).

EOO: 1,27,049 km²

AOO: 8,020 km²

Population

Generation Time (Length): Unknown.

Total Population: Although the present population and its trends are unknown for this species, current indications from field surveys are that this species is not abundant and the population is decreasing in their natural habitats (Ahmed *et al.* 2015).

Trend: Declining.

Habitat and Ecology

It inhabits primarily hill-streams. Descends to the plains from the hills in the fast flowing waters during rains. This fish also occurs in rivers, haors, beels near the hills. It feeds mainly on bottom organisms. *Glyptothorax telchitta* clings to the stones in the bottom by means of adhesive thoracic apparatus (Raknuzzaman 2007).

Assessor: Md. Mizanur Rahman



Monopterus cuchia

Specied ID: FI0196

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SYNBRANCHIFORMES	SYNBRANCHIDAE

Scientific Name: *Monopterus cuchia* (Hamilton, 1822)

English Name: Gangetic Mud Eel, Swamp Eel

Bengali Name: Kuchia, Cuchia, Kuiccha

Synonym/s: *Unibranchapertura cuchia* Hamilton, 1822
Amphipnous cuchia Hamilton, 1822
Pneumabranchnus albinas McClelland, 1844
Opoichthys punctata McClelland, 1844

Taxonomic Notes: There are differences between populations from different parts of its range and further taxonomic investigation is required. Taxonomic investigation is needed to clarify possible confusion between *M. cuchia* and *M. albus*, which could impact upon the species (Dahanukar 2010, Miah *et al.* 2013).

Assessment Information

Red List Category & Criteria: VU A2acd ver 3.1

Justification: *Monopterus cuchia* occurs throughout the country in all types of freshwater bodies. Although, empirical data are not available, the fish shows a clear population decline. Several threats, including overexploitation for export, drying up and conversion of wetlands into crop fields and human settlement areas negatively impact the abundance of the fish in nature. Based on the recent field studies (Ahmed *et al.* 2015, Latifa *et al.* In Press), it has been inferred that probably the population of this species has declined by more than 50% during the last ten years. So, the fish is assessed as Vulnerable.

Date Assessed: 22 September 2014



Monopterus cuchia

© Balam Mahalder

History

Regional Status: It has been considered as Vulnerable earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Monopterus cuchia* is native to Bangladesh, India, Myanmar, Nepal and Pakistan (Haque 2007).

Bangladesh: It is available throughout Bangladesh (Rahman 2005), particularly it is more abundant in Sylhet, Mymensingh and Tangail Districts. Frequently reported from almost all the shallow freshwater habitats of Bangladesh, including shallow river basins, floodplains and haor areas, burrows in rice fields throughout the country.

EOO: 2,17,468 km²

AOO: 47,196 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: It is declining due to habitat degradation and overexploitation. During 1960's it was abundant and used to be seen in all ditches, beels, and inundated fields throughout the country. However, currently it is not seen in large numbers (Haque 2007). Based on the recent field studies the population of the species has declined by more than 50% during the last ten years (Ahmed *et al.* 2015).

Habitat and Ecology

Monopterus cuchia inhabits fresh and brackish waters, prefers to live in areas with aquatic vegetation during monsoon since it adheres its eggs in cluster with aquatic vegetation. It lives in burrows of rice fields, shallow river basins, floodplains and haor areas. It hibernates in bottom or dike of shallow waterbody during winter. It is carnivorous and feeds on small fishes, tadpoles and insects (Haque 2007).

Assessor: Harunur Rashid



Ophisternon bengalense

Specied ID: FI0197

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SYNBRANCHIFORMES	SYNBRANCHIDAE

Scientific Name: *Ophisternon bengalense* McClelland, 1844

English Name: Bengal Eel; Pygmy Eel, Asian Swamp Eel

Bengali Name: Bamosh, Kuncha

Synonym/s: *Synbranchus bengalensis* McClelland, 1844

Ophisternon hepaticus McClelland, 1844

Tetrabranchus microphthalmus Bleeker, 1851

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: VU A2acd ver 3.1

Justification: *Ophisternon bengalense* is distributed in the tidal influences of the estuaries and swamps of the country. Due to indiscriminate harvest and habitat degradation caused by vegetation removal from coastal areas, the population abundance of the species has declined by more than 50% (M. A. R. Hossain and A. R. Mollah pers. comm.) during the last ten years. On the other hand, no conservation actions targeting the fish are in place. Hence, it is assessed as Vulnerable.

Date Assessed: 22 September 2014

History

Regional Status: This taxon has not been assessed earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *O. bengalense* is reported from Australia, Bangladesh, China, India; Myanmar, Malaysia, Pakistan,



Ophisternon bengalense

© Mostafa A R Hossain

Philippines, Sri Lanka and Thailand (Rahman and Chowdhury 2007).

Bangladesh: It is available in tidal rivers, estuaries, shrimp farms, enclosure and ditches situated in the coastal region of Bangladesh.

EOO: 77,229 km²

AOO: 12,024km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Population of the species is declining probably due to overexploitation and habitat destruction caused by vegetation removal. Apparently, the population has declined by more than 50% during the last ten years (M. A. R. Hossain and A. R. Molla pers. comm.)

Habitat and Ecology

Ophisternon bengalense inhabits estuaries and freshwater within the influence of tide. It occurs mainly in thick vegetation of muddy, still water bodies, such as lagoons, swamps, canals and rice fields and mostly remains in bottom sediments and burrows (Rahman 2005). It is carnivorous and feeds on small fishes. The male guards eggs and builds nest or burrows.



Assessor: Harunur Rashid

Microphis cunocalus

Species ID: FI0194

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SYNGNATHIFORMES	SYNGNATHIDAE

Scientific Name: *Microphis cunocalus* (Hamilton, 1822)

English Name: Crocodile Tooth Pipefish

Bengali Name: Kumirer Khil, Kumirer Kona

Synonym/s: *Syngnathus cunocalus* Hamilton, 1822

Doryichthys cunocalus Day, 1878

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: VU A2ad ver 3.1

Justification: This pipefish was very common and widely distributed in all freshwater rivers in Bangladesh. It is used to be caught in thousands in the fishing nets along with commercial fishes but were thrown overland en masse causing severe decline in its population (M. A. R. Khan pers. comm.). Over the last 10 years the abundance of the species conjectured to have been reduced to about 50-60% (A. R. Mollah and M A R Hossain pers. comm.) Several anthropogenic activities have been well known as major threats to the existence of this species. Exploitation of the species (within Bangladesh range) is potentially high to contribute to population decline. Therefore, this species is assessed as Vulnerable.

Date Assessed: 20 October 2014

History

Regional Status: Considered as Not Threatened in Red List of IUCN Bangladesh 2000.



Microphis cunocalus

© Balam Mahalder

Geographic Range

Global: Recorded from the estuaries near Kolkota, India and Bangladesh. Study also reported that the species has been found throughout Bangladesh, India and Sri Lanka.

Bangladesh: Recorded from the Padma River, Halda River (Azadi and Alam 2011) and estuaries throughout Bangladesh.

EOO: 2,24,779 km²

AOO: 16,871 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Declining.

Habitat and Ecology

This species has been recorded from a wide variety of habitats and prefers freshwater or low salinity regimes (Dhanya *et al.* 2007). Recorded from the rivers, streams and estuaries throughout Bangladesh (Hossain and Haq 2005, Siddique *et al.* 2007). It is demersal, amphidromous and ovoviparous and feeds on worms, crustaceans and small zooplankton. Male carries eggs in a brood pouch, located under the tail (Siddiqui *et al.* 2007).



Assessor: Gawsia Wahidunnessa Chowdhury

Microphis deocata

Specied ID: FI0195

VULNERABLE
<VU>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SYNGNATHIFORMES	SYNGNATHIDAE

Scientific Name: *Microphis deocata* (Hamilton, 1822)

English Name: Deocata Pipefish

Bengali Name: Kumirer Khil

Synonym/s: *Syngnathus deocata* Hamilton, 1822

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: VU A2ad ver 3.1

Justification: *Microphis deocata* is distributed in the northern Bangladesh and has also been recorded from Sundarbans. Its habitat has been highly degraded due to siltation, conversion and drying up of wetlands. Pollution is also a threat to the species. Consequently, the species has been declined in population. The estimated Extent of Occurrence and Area of Occupancy are much higher than the threshold level of the Threatened Category. But considering its population decline and serious threat to its habitat it is assessed as Vulnerable.

Date Assessed: 20 March 2015

History

Regional Status: This species has been considered as Endangered earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Microphis deocata* is found in Bangladesh and



Microphis deocata

© Balam Mahalder

India and Bangladesh (Talwar and Jhingran 1991, Rahman and Ruma 2007).

Bangladesh: It is found in the rivers in the northern Bangladesh (Rahman 2005) and has also been recorded from the Sundarbans (Hoq 2003).

EOO: 70,895 km²

AOO: 2,299 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

Microphis deocata is a freshwater fish, found in rivers often among aquatic plants (Menon 1991). It is amphidromous and feeds on plankton, worms, crustaceans, etc. The fish swims in a vertical position by the undulating movement of its dorsal fin.



Assessor: Gawsia Wahidunnessa Chowdhury



Fishermen catching fish at Brahmaputra River, Mymensingh

A red teardrop-shaped graphic element with a rounded top and a flat bottom, centered on the page. It contains white text.

NEAR THREATENED
< NT >



Nandus nandus

Schistura savona

Species ID: FI0125



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	BALITORIDAE

Scientific Name: *Schistura savona* (Hamilton, 1822)

English Name: Savona Loach, Half Banded Loach, Bicolor Loach

Bengali Name: Puiya, Savon Khoraka

Synonym/s: *Cobitis savona* Hamilton, 1822

Schistura savona McClelland, 1839

Nemachilus savona Günther, 1868

Noemacheilus savona Menon, 1974

Taxonomic Notes: None



Schistura savona

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Schistura savona* is distributed in the hill stream rivers of Bangladesh. As this species is found in specific habitats like sandy and gravelly bottom of the hill streams, the degradation of these habitats is likely to be the main cause of its decline in nature. Though the Extent of Occurrence is 1,22,855.72 km² and Area of Occupancy is 4,490.88 km² are higher than the threshold values of the lowest Threatened Category, however, considering the population decline this species is assessed as Near Threatened.

Date Assessed: 15 November 2014

History

Regional Status: It was considered as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India and Myanmar (Talwer and Jhingran 1991, Rahman and Ruma 2007).

Bangladesh: The Dahuki River in Sylhet is an ideal habitat for the species. This species is reported from the upstream of the Piyang and Sari River of Sylhet; the Kortoa, Atrai and Mahananda River of Northern region; and the River Brahmaputra-Jamuna. Also it has been recorded from the water falls at Chittagong University Campus and from high altitude of Sangu River (Rahman and Akhter 2007, Ahmed *et al.* 2015).

EOO: 1,22,856 km²

AOO: 4,491 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It occurs in rapid streams with bottoms of rocks and stones. It hides underneath the rocks for its protection (Rahman and Ruma 2007). The species is mainly omnivorous, generally feeds on mosquito larvae, shrimps, tubifex, *Daphnia* and some algae.



Assessor: Md. Mizanur Rahman

Canthophrys gongota

Species ID: FI0138



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE

Scientific Name: *Canthophrys gongota* (Hamilton, 1822)

English Name: Gongota Loach

Bengali Name: Ghora Gutum, Ghora Poia, Pahari Gutum

Synonym/s: *Cobitis gongota* Hamilton, 1822

Cobitis cucura Hamilton, 1822

Somileptis bispinosa Swainson, 1839

Cobitis oculata McClelland, 1839

Somileptes gongota Bleeker, 1868.

Taxonomic Notes: None



Canthophrys gongota

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Canthophrys gongota* is widely distributed in the country but has low population density as evidenced from the low catch appearing in the market (Ahmed et al. 2015). As this species prefers to live in special type of habitats like sandy and gravelly bottom of the hill streams, the degradation of these habitats is the main cause of its decline. Though the Extent of Occurrence and Area of Occupancy surmounts the threshold value of lowest Threatened Category, this species is assessed as Near Threatened.

Date Assessed: 15 October 2014

History

Regional Status: It was listed as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It occurs in Bangladesh, India and Nepal (Rahman 1989, Talwar and Jhingran 1991).

Bangladesh: This species has been reported from hill streams and rivers including the rivers Padma and its tributaries, Choto Jamuna, Someshwari and Kongsho of Netrokona, Surma and Pyiang River of Sylhet, Baral, Kortoa, Atrai and the Mahananda River of Northern region in the country. Also it has been reported from the Tanguar Haor of Sunamgonj, the Itna and Nikli Haor of Kishoregonj Districts (Mahsin and Haque 2009, Galib et al. 2013, Ahmed et al. 2015).

EOO: 70,378 km²

AOO: 6,216 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It inhabits muddy hill streams and mostly known from shallow, slow-moving, relatively shallow tributaries and minor rivers with substrates of mud, sand or gravel (Rahman 2005). It is a gregarious species usually moves in a group and feeds on worms, crustaceans, insects, etc. The species has the habit of burying in the sand quickly when frightened (Rahman and Ruma 2007).



Assessor: Md Mizanur Rahman

Cirrhinus cirrhosus

Species ID: FI0072



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Cirrhinus cirrhosus* (Bloch, 1795)
English Name: Mrigal Carp, Mrigal
Bengali Name: Mrigal, Mirka, Mahal, Malmuch.
Synonym/s: *Cyprinus cirrhosus* Bloch, 1795
Cyprinus mrigala Hamilton, 1822
Cirrhina blochii Valenciennes, 1842
Cirrhina leschenaultii Günther, 1868
Cirrhina mrigala Day, 1878
Cirrhinus cirrhosus Talwar and Jhingran, 1991

Taxonomic Notes: Though Roberts (1997) considered *C. mrigala* a synonym of this species, it was observed that both were quite distinct. *C. cirrhosus* has four barbels whereas *C. mrigala* has only two barbels; dorsal branched rays are 15-16 in *cirrhosus* vs. 12-13 in *mrigala*. Earlier, this species was described as *Cirrhinus mrigala*.

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Cirrhinus cirrhosus* is widely distributed but not common in its habitats. In recent faunal survey, the distribution of *Cirrhinus cirrhosus* was observed in most study sites but its abundance was low. The habitats of the species are being destroyed due to the accelerated anthropogenic activities. Though, the Extent of Occurrence and Area of Occupancy are higher than the threshold values of lowest Threatened Category, this species is assessed as Near Threatened considering significant population decline due to habitat loss.

Date Assessed: 15 February 2015



Cirrhinus cirrhosus

© Md. Mizanur Rahman

History

Regional Status: Not assessed in the Red List (IUCN Bangladesh 2000).

Geographic Range

Global: *Cirrhinus cirrhosus* is found in Bangladesh, India and Pakistan (Talwar and Jhingran 1991, Rahman 2005, Latifa 2007).

Bangladesh: This species is widely distributed throughout Bangladesh (Rahman 2005). This species has been reported from the vast and different regions of the country, in particular from the river Padma, Jamuna, Brahmaputra, Titas, Sangu and from the Halda River (Hossain and Haque 2005, Rahman and Akhter 2007, Ahmed 2008, Azadi and Arshad-Ul-Alam 2013, Galib *et al.* 2013).

The species had been introduced outside of its native range for stocking reservoirs for aquaculture.

EOO: 1,89,935 km²

AOO: 9,012 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Declining.

Habitat and Ecology

This fish inhabits rivers, lakes and ponds (Rahman 2005). *Cirrhinus cirrhosus* is essentially a plankton feeder, but also browses on algae in marginal shallows. Juveniles are omnivorous and adults are herbivorous. It breeds during May-July in shallow sections of selected rivers. (Talwar and Jhingran 1991, Rahman 2005).

Assessor: Md. Abdur Rob Mollah

Associate Assessor/s: Md. Mizanur Rahman



Cirrhinus reba

Species ID: FI0073



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Cirrhinus reba* (Hamilton, 1822)

English Name: Reba

Bengali Name: Bhanga, Tatkini, Bata, Laccho

Synonym/s: *Cyprinus reba* Hamilton, 1822

Cirrhina reba Valenciennes, 1842

Crossocheilus reba Günther, 1868

Taxonomic Notes: None

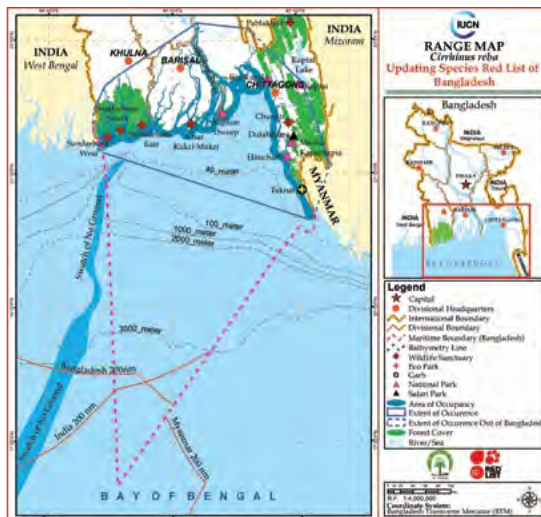
Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Cirrhinus reba* occurs in the rivers, streams, canals, ponds, beels and inundated fields throughout Bangladesh and it is relatively fairly common species in the country (Alam 2007). Although, the Extent of Occurrence and Area of Occupancy are higher than the upper thresholds of any IUCN Threatened Category, however, due to several widespread threats like siltation, conversion of wetlands and aquatic pollution from agricultural sources the population is experiencing a significant declination (M.A.R. Hossain pers. comm., G. Mustafa pers. comm.). The existing threats to the species are unlikely to be reduced in near future and there is no targeted measures for the conservation of the species and thus the population is unlikely to improve in the near future. Therefore, the species is considered as Near Threatened.

Date Assessed: 21 October 2014

History



Cirrhinus reba

© Md. Mizanur Rahman

Regional Status: The taxon has been considered Vulnerable earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Cirrhinus reba* occurs in Bangladesh, India, Myanmar, Nepal and Pakistan (Menon 1999).

Bangladesh: *Cirrhinus reba* is found in rivers, streams, canals, ponds, beels and inundated fields throughout Bangladesh. The fish has been reported from the Ganges-Brahmaputra Basin, Karnaphuli and adjacent basins of the Chittagong Hill Tracts, in the Bookbhara Boar in Jessore, Chalan Beel in Rajshahi, Haldi Beel in Natore, Choto Jamuna River and Turag River (Alam 2007, Hossain *et al.* 2013).

EOO: 2,17,468 km²

AOO: 11,857 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population is unknown. However, it is relatively common and always seen in large quantities in fish markets.

Trend: The species shows a continuous decline in population and is relatively less abundant in the local markets (M.G. Golam Mustafa pers. comm., M.A.R. Hossain pers. comm.)

Habitat and Ecology

C. reba inhabits freshwaters and occurs in a wide variety of habitats, such as rivers, streams, canals, ponds, beels and inundated fields throughout Bangladesh (Hossain and Haq 2005, Alam 2007). The fish is benthopelagic and feeds mainly on plankton and detritus. It is a potamodromous and prolific breeder (Alam 2007).

Assessor: Gawsia Wahidunnessa Chowdhury

Danio rerio

Species ID: FI0076

NEAR
THREATENED
<NT>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Danio rerio* (Hamilton, 1822)

English Name: Zebra Danio

Bengali Name: Anju

Synonym/s: *Cyprinus rerio* Hamilton, 1822

Nuria rerio Bleeker, 1853

Danio rerio Day, 1878

Brachydanio rerio Hora, 1937

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Danio rerio* is widely distributed throughout Bangladesh and occupies a wide range of habitat types. The Extent of Occurrence and the Area of Occupancy of this species are higher than the upper thresholds for any IUCN Red List Threatened Category. However, the species is apparently declining due to several threats including habitat loss and aquatic pollution (Ahmed *et al.* 2015). Unless the threats are removed the fish is likely to face risk of extinction in future. Therefore, the fish is assessed as Near Threatened.

Date Assessed: 25 July 2015

History

Regional Status: The species has not been assessed in Bangladesh earlier.



Danio rerio

© Md. Mizanur Rahman

Geographic Range

Global: *D. rerio* is known to occur in Bangladesh, India, Myanmar, Nepal and Pakistan (Rahman and Chowdhury 2007).

Bangladesh: The species has a wide distribution throughout Bangladesh and is particularly reported from Khulna, Mymensingh, Netrokona, Chalan Beel area (Pabna, Shirajgonj), Sylhet, Cox's Bazar and Chittagong Hill Tracts (Spence *et al.* 2006, Rahman and Chowdhury 2007, Kostori *et al.* 2011 and Ahmed *et al.* 2015).

EOO: 1,27,267 km²

AOO: 10,829 km²

Population

Generation Time (Length): Three months (Spence *et al.* 2007)

Total Population: Unknown.

Trend: No empirical data on population trend is available on the species. However, the population of the species is apparently declining throughout its habitat ranges in Bangladesh (Ahmed *et al.* 2015).

Habitat and Ecology

Zebra Danio commonly inhabits slow-moving or standing freshwater bodies, particularly at the edges of streams and ditches, canals, ponds adjacent to rice-fields (Talwar Jhingran 1991, Spence *et al.* 2006, Engeszer *et al.* 2007). However, it has also been reported to inhabit rivers and hill streams (Ahmed *et al.* 2015). *Danio rerio* is benthopelagic and omnivorous fish, feeds on worms and small crustaceans and insect larvae as well as phytoplankton, filamentous algae and vascular plant materials (Spence *et al.* 2007). This fish is active, social and diurnal. It is a shoaling species and shoaling behavior commences soon after hatching (Engeszer *et al.* 2007).

Assessor: Md. Mizanur Rahman



Labeo gonius

Species ID: FI0092

NEAR
THREATENED
<NT>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Labeo gonius* (Hamilton, 1822)

English Name: Kuria Labeo

Bengali Name: Gonia, Ghannia, Goni, Kurchi

Synonym/s: *Cyprinus gonius* Hamilton, 1822

Rohita gonius Hamilton, 1822

Labeo microlepidotus Valenciennes, 1842

Rohita microlepidota Valenciennes, 1842

Rohita chalybeata Valenciennes, 1842

Osteochilus chalybeatus Valenciennes, 1842

Labeo gonius Day 1878

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Near threatened (NT) ver 3.1

Justification: *Labeo gonius* is widely distributed throughout Bangladesh, but its natural population has declined in recent years (Ahmed 2007, Hossain *et al.* 2009). The estimated Area of Occupancy (4,755.25 km²) and Extent of Occurrence (74,258.02 km²) of the species are above the upper threshold values. However, the fish is facing widespread threats and may face risk of extinction in the future. Hence, the fish is assessed as Near Threatened.

Date Assessed: 25 January 2014

History

Regional Status: The species has been assessed Endangered earlier in Bangladesh (IUCN Bangladesh 2000).



Labeo gonius

© Md. Mizanur Rahman

Geographic Range

Global: *Labeo gonius* has been reported from Afghanistan, Bangladesh, Burma, India, Nepal and Pakistan (Ahmed 2007).

Bangladesh: It inhabits in major rivers (Meghna, Jamuna, Sangu, Turag, Halda, and Atrai), beels, Tanguar Haor of Sunamgonj District and Kaptai Lake (Alam *et al.* 2012, FRSS 2012, Alam *et al.* 2013, Mahalder and Mustafa 2013, Chaki *et al.* 2014, IUCN 2014).

EOO: 74,258 km²

AOO: 4,755 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Declining (Ahmed 2007).

Habitat and Ecology

The species inhabits freshwaters and found in rivers, haors, beels and lakes. It is benthopelagic and potamodromous, and feeds on phytoplankton, algae and crustaceans (Ahmed 2007).



Assessor: Md. Selim Reza

Associate Assessor/s: Selina Sultana and Jannatul Ferdous

Osteobrama cotio

Species ID: FI0026



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Osteobrama cotio* (Hamilton, 1822)

English Name: Cotio

Bengali Name: Dhela, Mou Mach, Bolungo Melanda, Gunta, Ketu, Mauwa, Chela, Moa, Lohasura, Dhipali, Gilachaki.

Synonym/s: *Abramis cotis* Hamilton, 1822

Cyprinus cotio Hamilton, 1822

Leuciscus cotio Hamilton, 1822

Rohtee cotio Hamilton, 1822

Abramis gangeticus Swainson, 1839

Leuciscus gangeticus Swainson, 1839

Taxonomic Notes: None



Osteobrama cotio

© Baram Mahalder

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Osteobrama cotio* occurs throughout the country in small population and found in rivers, beels, ponds, floodplains, ditches, etc. (Saha 2007). However, the species is relatively less abundant (amounts to just 0.04- to 00.17% of total catches) (Mahalder and Mustafa 2013) and showing a significant population decline (Ahmed *et al.* 2015). The Extent of Occurrence and Area of Occupancy do not qualify the species for any IUCN threatened category. It is inferred from the available information that if the population decline continues and the existing threats are not removed, the species is likely to face a risk of extinction in future. Therefore, it is assessed as Near Threatened.

Date Assessed: 24 June 2014

History

Regional Status: It has been considered as Endangered



earlier in Bangladesh (IUCN Bangladesh 2000)

Geographic Range

Global: Its range countries include Bangladesh, India, Nepal and Pakistan (Vishwanath and M Shantakumar 2007).

Bangladesh: *O. cotio* occurs throughout Bangladesh and inhabits most water body types (Rahman 2005, Saha 2007). This fish was recorded from about 75% water bodies sampled for catch assessment study under a fisheries management project in the Sunamgonj haor areas of the country (Mahalder and Mustafa 2013). The species was also reported from the Rivers Padma, Jamuna, Kangsha, Kirtonkhola, Surma, Choto Jamuna, Atrai and other rivers (Ahmed *et al.* 2015).

EOO: 2,17,468 km²

AOO: 47,216 km²

Population

Generation Time (Length): Unknown.

Total Population : Total population of the species is unknown, but it is relatively less abundant (0.04-0.17% of total catches) as reflected in fish catch analysis from 30 water bodies under a Community-Based Resource Management Project during the period 2009-2011 (Mahalder and Mustafa 2013).

Trend: The species shows a declining trend. Abundances of the species stated to be reduced in the country (Rahman 2005).

Habitat and Ecology

O. cotio inhabits lotic and lentic freshwaters. It is a pelagic omnivore and surface feeder consuming algae, protozoans, crustaceans and aquatic insects. The fish usually moves in small groups and breeds in stagnant waters twice a year (Saha 2007).

Assessor: Mohammad Golam Mustafa

Associate Assessor/s: Baram Mahalder and Mohammad Ilyas

Pethia gelius

Species ID: FI0100



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Pethia gelius* (Hamilton, 1822)

English Name: Golden Dwarf Barb, Golden Barb

Bengali Name: Gili Punti

Synonym/s: *Barbus gelius* Hamilton, 1822

Cyprinus gelius Hamilton, 1822

Systemus gelius Hamilton, 1822

Puntius gelius David, 1965

Pethia gelius Pethiyagoda *et al.*, 2012

Taxonomic Note: None



Pethia gelius

© Md. Sagir Ahmed

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Pethia gelius* is stated to occur throughout Bangladesh (Rahman and Ruma 2007), however, currently it is mainly found in Sylhet-Mymensingh basin (Hasan *et al.* 2013, Mian *et al.* 2013, Worldfish 2013). Once the species was abundant in inland waters of Bangladesh, but at present apparently it is rare (Hossain and Haque 2005, Chakraborty 2011, Rahman *et al.* 2011). The estimated Extent of Occurrence (2,17,467.88 km²) and Area of Occupancy (11,128.35 km²) are higher than the upper threshold values of any IUCN Threatened Category. However, due to population reduction and negative impact of anthropogenic factors on this fish habitat it is likely to face risk of extinction in future. The fish is, therefore, assessed as Near Threatened.

Date Assessed: 20 August 2014

History

Regional Status: The species has been assessed as Data Deficient earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Pethia gelius* is known to occur in Bangladesh, India, Nepal and Pakistan (Pethiyagoda 2012).

Bangladesh: It occurs throughout Bangladesh. Presently, it is mainly observed in the Mymensingh and Sylhet basin (Hossain and Haque 2005, Chakraborty 2011, Rahman *et al.* 2011).

EOO: 2,17,468 km²

AOO: 11,128 km²

Population

Generation Time (Length): Unknown.

Total Population: No information on the total population of this fish is available.

Trend: Actual information on the population trend of the fish is not known. However, once it was abundant in inland waters of Bangladesh, but some recent studies observed it as a rare species (Hossain and Haque 2005, Chakraborty 2011, Rahman *et al.* 2011).

Habitat and Ecology

This benthopelagic fish inhabits freshwater and is found in rivers, canals, beels, floodplains, ditches and ponds (Rahman and Ruma 2007). It is an omnivore fish and feeds mainly on planktonic crustaceans, worms, insects and plant matters.



Assessor: Md. Enamul Hoq

Rasbora rasbora

Species ID: FI0028



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Rasbora rasbora* (Hamilton, 1822)

English Name: Gangetic Scissortail Rasbora

Bengali Name: Darkina, Leuzza Darkina

Synonym/s: *Cyprinus rasbora* Hamilton, 1822

Leuciscus rasbora Hamilton, 1822

Leuciscus presbyter Valenciennes, 1844

Leuciscus presbiter Valenciennes, 1844

Leuciscus microcephalus Jerdon, 1849

Rasbora buchanani Bleeker, 1860

Taxonomic Notes: None



Rasbora rasbora

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Rasbora rasbora* was abundant throughout Bangladesh in the past, but currently its population has declined due to use of agro-chemicals in the crop fields and loss of habitats (Rahman and Chowdhury 2007). Moreover, in the recent years, the fish has been reported from few locations among some selected fish monitoring sites and also its abundance noted to be reduced (Mahalder and Mustafa 2013, Ahmed *et al.* 2015). The fish was assessed Endangered earlier in Bangladesh (IUCN Bangladesh (2000). However, no empirical data are available on its population abundance and trend. The estimated Extent of Occurrence (2,17,467.88 km²) and Area of Occupancy (9,400 km²) are much higher than the upper threshold values for any IUCN threatened category. Considering these and in the absence of any conservation measures targeting the species, it is assessed Near Threatened until further information become available.

Date Assessed: 25 June 2014

History

Regional Status: This species has been considered as Endangered earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: The fish is reported from Bangladesh, India, Myanmar, Pakistan, and Thailand (Vishwanath 2010).

Bangladesh: The species occurs throughout Bangladesh (Rahman and Chowdhury 2007), however, presently it is reported from few locations among some selected fish monitoring sites in the country (Mahalder and Mustafa 2013, Ahmed *et al.* 2015).

EOO: 2,17,468 km²

AOO: 9,400 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on the total population is not available. However, in Bangladesh the species is relatively less common (Rahman 2005, Rahman and Chowdhury 2007, Ahmed *et al.* 2015).

Trend: Declining

Habitat and Ecology

R. rasbora inhabits freshwaters and found in rivers, streams, canals, ponds and floodplains, but prefers sandy areas. The fish is benthopelagic and potamodromous (Rahman and Chowdhury 2007). It mainly feeds on aquatic insects and detritus. Sometimes, they move in large groups.

Assessor: Md. Golam Mustafa

Associate Assessor/s: Balam Mahalder and Mohammad Ilyas



Salmostoma phulo

Species ID: FI0031



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Salmostoma phulo* (Hamilton, 1822)

English Name: Finescale Razorbelly Minnow

Bengali Name: Fulchela, Phulo Chela, Prem Chela

Synonym/s: *Cyprinus phulo* Hamilton, 1822

Chela phulo Hamilton, 1822

Leuciscus phulo Hamilton, 1822

Oxygaster phulo Hamilton, 1822

Opsarius albulus McClelland, 1839

Taxonomic Notes: None



Salmostoma phulo

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Salmostoma phulo* is widely distributed in rivers, ponds, beels, floodplains, ditches and canals throughout Bangladesh. However, the estimated Area of Occupancy of 5,651.97 km² is near to the upper limit of Vulnerable Category. The population abundance of the species is also declining in the country under continued threats (Rahman and Chowdhury 2007, Ahmed *et al.* 2015). Unless the threats are removed the species is likely to face risk of extinction in near future, and hence the species is assessed as Near Threatened.

Date Assessed: 25 Jun 2014

History

Regional Status: The species has been assessed as Not Threatened in Bangladesh. (IUCN Bangladesh 2000)

Geographic Range

Global: It lives in Gangetic and Brahmaputra drainages of Bangladesh and India (Rahman and Chowdhury 2007).

Bangladesh: The species is widely distributed throughout Bangladesh, particularly in Gangetic and Brahmaputra basins. However, it is more abundant in northern parts of Bangladesh (Rahman and Chowdhury 2007).

EOO: 1,05,819 km²

AOO: 5,652 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on its total population is not available.

Trend: The fish was abundant earlier in Bangladesh, however, currently the population has declined due to excessive use of insecticides, siltation and drying up of water bodies (Rahman and Chowdhury 2007). Recent studies also suggest that probably the population of the species has declined significantly during the last 10 years (Ahmed *et al.* 2015).

Habitat and Ecology

The fish inhabits fresh and brackish water habitats and occupies a wide range of water bodies. However, they are predominantly found in slow running water bodies (Rahman and Chowdhury 2007). The species is a surface feeder and consumes aquatic insects and detritus. It has the habit of jumping above the water surface and generally moves in small groups.

Assessor: Md. Golam Mustafa

Associate Assessor/s: Balaram Mahalder and Mohammad Ilyas



Securicula gora

Species ID: FI0111



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Securicula gora* (Hamilton, 1822)

English Name: Ghora chela

Bengali Name: Ghora chela, Gora chela, Chela, dhak chela, Naukka chela

Synonym/s: *Cyprinus gora* Hamilton, 1822

Chela gora Günther, 1868

Opsarius pholicephalus McClelland, 1839

Leuciscus cultellus Valenciennes, 1844

Oxygaster gora Rahman, 1974

Taxonomic Notes: None



Securicula gora

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: The species is fairly common in certain parts of the country, especially in northern districts and Sunamganj hoar area. Its Extent of Occurrence measured to be 53,817.23 km² and Area of Occupancy being 2,314.33 km² are on the higher threshold levels in the Red List Category and Criteria. Despite that, fish catch statistics is reduced in recent times as well as there are noticeable changes in the quality of its habitat. Hence, the species is considered as Near Threatened.

Date Assessed: 06 August 2014

History

Regional Status: *Securicula gora* was considered Not Threatened (NO) (IUCN Bangladesh 2000).

Geographic Range

Global: *Securicula gora* is found in Bangladesh, India, Pakistan and probably Nepal (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It is found in canals, beels, haors and mostly north-southern part of Bangladesh in occasional incidental catches.

EEO: 53,817 km²

AOO: 2,314 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Declining.

Habitat and Ecology

Securicula gora is a pelagic, surface feeder, predatory in nature and feeds on insects, their larvae and crustaceans. It occurs in rivers, beels and canals. It is common in water bodies of northern districts of Bangladesh (Rahman 2005).



Assessor: Md. Golam Mustafa

Associate Assessor/s: Selina Sultana and Mohammed Noman

Systemus sarana

Species ID: FI0104



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Systemus sarana* (Hamilton, 1822)

English Name: Olive barb, Peninsular Olive Barb

Bengali Name: Sarpunti, Sharputi, Sarnapunti, Saralpunti, Kurti

Synonym/s: *Cyprinus sarana* Hamilton, 1822
Barbus diliciosus McClelland, 1839
Barbus sarana Day, 1878
Puntius sarana Rahman, 1974

Taxonomic Notes: The species was originally described as *Cyprinus sarana* by Hamilton (1822). *C. sarana* has been adopted as *Systemus sarana* by Pethiyagoda *et al.* (2012).



Systemus sarana

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Systemus sarana* is widely distributed in inland waters of Bangladesh. There is no wide spread threat across its habitat range. Extent of Occurrence (2,17,467.88 km²) and Area of Occupancy (11,128.35 km²) are higher than any upper threshold values of IUCN threatened category. However, the taxon was considered as Critically Endangered (IUCN 2000) but recent studies (Ahmed 2008, Hossain *et al.* 2009a, Hossain *et al.* 2009b, Galib *et al.* 2013, Hossain *et al.* 2014, Jahan 2014, Kabir *et al.* 2015) showed the reliable abundance of the species, although the populations are declining due to over-exploitation, pollution, environmental degradation, disease and lack of proper management. Therefore, *Systemus sarana* is currently assessed and placed under the category Near Threatened (NT).

Date Assessed: 21 January 2015

History

Regional Status: It was considered as Critically Endangered (IUCN Bangladesh 2000).

Geographic Range

Global: It is reported from Afghanistan, Bangladesh, Bhutan, India, Myanmar, Nepal, Pakistan, Sri-Lanka, Thailand and Vietnam.

Bangladesh: It occurs in rivers, canals, beels, ponds and inundated fields throughout Bangladesh.

EOO: 2,17,468 km²

AOO: 11,128 km²

Population

Generation Time (Length): Unknown.

Total Population: No information is available on wild population and its population trends.

Trend: Declining.

Habitat and Ecology

S. sarana inhabits in standing and running water in rivers, canals, beels, ponds and inundated fields of Bangladesh (Rahman 1989). It is omnivorous in nature, usually feeds on plants, insects, molluscs, worms, detritus and plankton. This fish attains the sexual maturity in the first year of its life and prefers shallow water of floodplain for the breeding (Chakraborty *et al.* 2006).



Assessor: Md. Enamul Hoq

Psilorhynchus gracilis

Species ID: FI0116



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	PSILORHYNCHIDAE

Scientific Name: *Psilorhynchus gracilis* Rainboth, 1983
English Name: Rainbow Minnow
Bengali Name: Balitora
Synonym/s: *Psilorhynchus nudithoracicus* Tilak & Husain, 1980
Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: Despite *Psilorhynchus gracilis* is found in its all ranges of habitats but its abundance is low, which is easily inferred from its catch and in the local markets (Ahmed *et al.* 2015). As this species prefers to live in special type of habitats like sandy and gravelly bottom of the hill streams, the degradation of these habitats is likely to be the main cause of its decline. The Extent of Occurrence (1,22,353 km²) and Area of Occupancy (5,833.26 km²) surmounts the threshold value of lowest Threatened Category. This species is assessed as Near Threatened.

Date Assessed: 21 January 2015

History

Regional Status: It was considered as Data Deficient (IUCN Bangladesh 2000).

Geographic Range

Global: It occurs in Bangladesh and India (Ahmed 2007).



Psilorhynchus gracilis

© Md. Mizanur Rahman

Bangladesh: This species is available in the Mahananda and Korotoa rivers in Dinajpur and the Dahuki River in Sylhet (Rahman 2005). It is also reported from the rivers in Feni, the Brahmaputra and the Jamuna Rivers (Haroon *et al.* 1989, Rahman and Akhter 2007). Recently this fish has been collected from the Piyang River of Sylhet, Chittagong University waterfall and also from the upstream of the Sangu River (Ahmed *et al.* 2015). *Psilorhynchus gracilis* is found in the Jabuneswari River in Badarganj, Rangpur; the Jagat River in Rangpur; the Mahananda River in Panchagarh; the Tangan River in Thankurgaon and the Sangu River in Bandarban (Ahmed 2007).

EOO: 1,22,353 km²
AOO: 5,833 km²

Population

Generation Time (Length): Unknown.
Total Population: Unknown.
Trend: Apparently declining.

Habitat and Ecology

P. gracilis occurs over small pebbles in shallow running waters where the bottom is primarily sandy (Ahmed 2007). Mostly found in rapidly flowing streams below the foothills. It is generally a fast swimmer, occasionally rests on its spread paired fins. It feeds mainly on zooplankton and phytoplankton.



Assessor: Md. Mizanur Rahman

Psilorhynchus sucatio

Species ID: FI0118



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	PSILORHYNCHIDAE

Scientific Name: *Psilorhynchus sucatio* (Hamilton, 1822)

English Name: River Stone Carp, Sucatio Minnow

Bengali Name: Titari

Synonym/s: *Cyprinus sucatio* Hamilton, 1822,
Psilorhynchus sucatio Hora, 1924,
Psilorhynchus sucatio nudithoracicus Tilak and
Hussain, 1980

Taxonomic Notes: Day (1877) considered *Psilorhynchus sucatio* as a doubtful synonym of *Homaloptera bilineata*. However, it is currently considered as a valid species.



Psilorhynchus sucatio

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: The low abundance of *Psilorhynchus sucatio* has been noted from its meagerness in the local markets (Ahmed *et al.* 2015). As this species prefers to live in special type of habitats, like sandy and gravely bottom of the hill streams, the degradation of these habitats is likely to be the main cause of its declination. Though the Extent of Occurrence (76,623.28 km²) and Area of Occupancy (3,922.18 km²) surmounts the threshold value of lowest Threatened Category, this species is assessed as Near Threatened considering its significant population declination due to habitat loss.

Date Assessed: 21 January 2015

History

Regional Status: It was considered as Data Deficient (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India and Nepal (Talwar and Jhingran 1991).

Bangladesh: It is found in the tributaries of the Ganges and Brahmaputra rivers are ideal habitats for the species although it has been found in the streams of Chittagong Hilly Districts. It was also found in the Rangapani Khal along the Sylhet-Shillong Highway and the Mahananda River near Tetulia (Rahman 2005, Rahman and Akter 2007). Also reported from the Rivers of Feni, Brahmaputra and the Jamuna (Haroon *et al.* 1989, Rahman *et al.* 2007). Recently, this fish has been collected from Chittagong University waterfalls and also from the upstream of the Sangu River (Ahmed *et al.* 2015).

EEO: 76,623 km²

AOO: 3,922 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown. However, recent field surveys in selected locations indicate that this species is not abundant in natural habitats (M. S. Ahmed pers. comm.).

Trend: Unknown.

Habitat and Ecology

The species is found in fast flowing water and it inhabits primarily the edges of sandy streams. It is abundant near emergent of overhanging vegetation in lowlands (Talwar and Jhingran 1991).

Assessor: Md. Mizanur Rahman



Pseudambassis baculis

Species ID: FI0201



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	AMBASSIDAE

Scientific Name: *Pseudambassis baculis* (Hamilton, 1822)

English Name: Himalayan Glassy Perchlet, Indian Glassy Fish.

Bengali Name: Kata Chanda, Phopa Chanda

Synonym/s: *Ambassis baculis* (Hamilton, 1822)

Chanda baculis Hamilton, 1822

Parambassis baculis (Hamilton, 1822)

Taxonomic Notes: There are no taxonomic discrepancies associated with this species. Some authors consider it to belong to the genus *Parambassis*.

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Pseudambassis baculis* is a widely distributed species throughout Bangladesh and occurs in a wide range of water bodies. Though there is no empirical data on its population abundance and trend, however, recent local accounts indicate a substantial population abundance in recent decades. Several threats, like habitat loss, detrimental fishing and pollution of water bodies are affecting its population. In the absence of any conservation measure, the species is assessed as Near Threatened.

Date Assessed: 10 March 2015

History

Regional Status: The taxon has been considered as Data Deficient (DD) earlier in IUCN Bangladesh 2000.



Pseudambassis baculis

© Md. Mizanur Rahman

Geographic Range

Global: *P. baculis* is known to occur in Bangladesh, India, Myanmar and Nepal (Wahab 2007, Dahanukar 2010).

Bangladesh: The species is distributed throughout the country in major water bodies including brackish waters.

EOO: 2,17,468 km²

AOO: 47,212 km²

Population

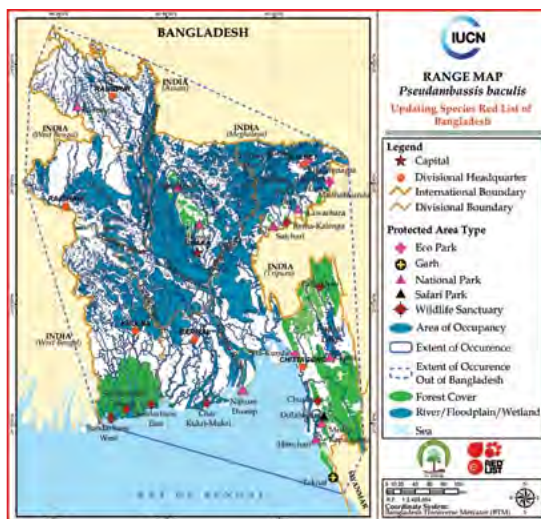
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

Pseudambassis baculis is a nocturnal or crepuscular and larvorous fish. Frequently moves in schools in flooded paddy fields during the rainy seasons (Shafi and Quddus 2001). It consumes insect larvae and worms (Wahab 2007). It inhabits freshwater ponds, ditches, pools and rivers (Talwar and Jhingran 1991).



Assessor: Md. Mizanur Rahman

Nandus nandus

Species ID: FI0208



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	NANDIDAE

Scientific Name: *Nandus nandus* (Hamilton, 1822)

English Name: Mottled Nandus, Mud Perch

Bengali Name: Bheda, Meni, Roina, Nandui

Synonym/s: *Coius nandus* Hamilton, 1822

Nandus marmoratus Valenciennes, 1831

Bengula hamiltonii Gray, 1834

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: The wide distribution of *Nandus nandus* is clearly evident from its occurrence in all over Bangladesh. However, the abundance of this species is gradually reducing which can be easily inferred from the poor catch and less availability of this species in the local markets. The Extent of Occurrence and Area of Occupancy exceed the threshold values of the Threatened Category. Wahab (2007) has identified loss of habitat and over-exploitation as the threats for this species. Hence, this species is assessed as the Near Threatened.

Date Assessed: 19 December 2014

History

Regional Status: It was considered as vulnerable (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India, Nepal, Pakistan, Myanmar and Thailand (Rahman 2005).



Nandus nandus

© Balam Mahalder

Bangladesh: It occurs in all types of fresh and brackish waters including ditches, ponds, beels and inundated fields throughout Bangladesh (Rahman 2005, Ahmed 2008).

EOO: 2,24,779 km²

AOO: 1,414 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

This species is capable of changing color to camouflage against its environment. Prey on small fishes and other aquatic organisms (Hossain *et al.* 1991). It inhabits rivers and floodplains. Commonly collected in the winter months from dried-up beds of tanks, beels, etc. (Ahmed and Akhter 2008).



Assessor: Gawsia Wahidunnessa Chowdhury

Badis badis

Species ID: FI0022

NEAR
THREATENED
<NT>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	PRISTOLEPIDAE

Scientific Name: *Badis badis* (Hamilton, 1822)

English Name: Badis, Blue Perch, Dwarf Chameleon Fish, Mud Perch.

Bengali Name: Naptey Koi, Napit Koi, Kala Koi, Kali Koi, Pote Koi, Koi Bandi, Napit, Koidum

Synonym/s: *Labrus badis* Hamilton, 1822

Labrus fasciata Swainson, 1839

Badis buchanani Bleeker, 1854

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: (Near Threatened (NT) ver 3.1

Justification: *Badis badis* is distributed in a wide range of habitats throughout the country, but observed significantly low in number the catches over time. Recent fish catch statistics of the 30 study sites that monitored monthly for at least three years under a Community-Based Resource Management Project of Local Government Engineering Department; showed that the *B. badis* negligibly occurred in annual catches averaging just 0.06 to 0.08% (Mahalder and Mostafa 2013). Moreover, it has some consistent threats of habitat destruction. Hence, the species *Badis badis* is assessed as Near Threatened.

Date Assessed: 25 July 2014

History

Regional Status: It was assessed as Endangered (IUCN Bangladesh 2000).



Badis badis

© Md. Mizanur Rahman

Geographic Range

Global: It lives in Bangladesh, Bhutan, India, Nepal, and Pakistan. (Rahman 1989, Rajbanshi and Csavas 1982, Mirza 2002, Kullander and Britz, 2002).

Bangladesh: This fish is found in rivers, canals, beels, haor, ponds, ditches and swamps throughout Bangladesh (Rahman and Chowdhury 2007), but always in an insignificant number.

EOO: 2,17,468 km²

AOO: 11,964 km²

Population

Generation Time (Length): Unknown.

Total Population: Recent fish catch statistics from 30 different sites of the country indicated that the *B. badis* occurred in annual catches from just 0.06% to 0.08% (Mahalder and Mostafa 2013).

Trend: Declining.

Habitat and Ecology

It occurs in freshwater canals, beels, ditches, paddy fields, and swamps (Rahman 1989). This fish is benthopelagic and lives among vegetation in swamps and floodplains. It feeds on worms, crustaceans and insects (Rahman and Chowdhury 2007). The species is capable of changing its colour like a chameleon.

Assessor: Md. Golam Mustafa

Associate Assessor/s: Baram Mahalder and Mohammad Ilyas



Macrospinosa cuja

Species ID: FI0206



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	SCIAENIDAE

Scientific Name: *Macrospinosa cuja* (Hamilton, 1822)

English Name: Cuja Bola, Cuja Croaker

Bengali Name: Kuli, Bhout bele

Synonym/s: *Bola cuja* Hamilton, 1822

Sciaena coitor Day, 1876

Sciaena cuja Day, 1878

Johnius cujas Fowler, 1933

Macrospinosa cuja Talwar, 1991

Taxonomic Notes: None



Macrospinosa cuja

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: Although, the species is widely distributed in the coastal waters of the Bay of Bengal and estuaries of the country, however, decade long studies indicate its apparent continuous population decline (Bernacsek 2001, Hoq 2008, Nabi *et al.* 2011), caused mainly due to over and unplanned exploitation and massive siltation in the estuaries. Considering its rapid population decline within its habitat ranges, *Macrospinosa cuja* is assessed as Near Threatened.

Date Assessed: 17 December 2014

History

Regional Status: Considered as Not Threatened in Red List of IUCN Bangladesh 2000.

Geographic Range

Global: It is found in Bangladesh, India, Myanmar, Malaya and Sumatra (Jayaram 1999).

Bangladesh: It is known to occur in the Bay of Bengal and its estuaries to all the tidal rivers up to the freshwater part in the southern regions of Bangladesh (Bernacsek 2001). Also reported from the Halda River (Azadi and Arshad-Ul-Alam 2013).

EOO: 75,800 km²

AOO: 12,207 km²

Population

Generation Time (Length): Unknown.

Total Population: There is no information on the population and its trends for this species. The species is relatively common in the coastal catches in Bangladesh (Huda and Haque 2003, Nabi *et al.* 2011).

Trend: Unknown.

Habitat and Ecology

It is carnivorous, feeds on small fish, crustaceans and other small invertebrates (Rahman and Morshed 2007). Anadromous. Commonly lives in marine to estuarine and their tidal rivers. Occasionally it visits the freshwater part of inter-tidal rivers. Primarily Bay of Bengal and its estuaries to inter-tidal rivers in the south-west and south-east regions of Bangladesh are its major habitats. Occasionally it is found in freshwater part of the inter-tidal rivers.



Assessor: Md. Rafiqun Nabi

Batasio batasio

Species ID: FI0013

NEAR
THREATENED
<NT>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Batasio batasio* (Hamilton, 1822)

English Name: Tista Batasio

Bengali Name: Tengra, Batasi

Synonym/s: *Pimelodus batasio* Hamilton, 1822

Bagrus batasio Valenciennes, 1839

Macrones batasio Günther, 1864

Gagata batasio Day, 1878

Batasio batasio Shaw and Shebbeare, 1937

Taxonomic Notes: None



Batasio batasio

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: The species is reported from rivers and its adjacent canals, and haors of the northeastern and northwestern parts of the country. Although, the population size and trend are not known, however, expert consultation and local accounts suggest that the population of the species is declining in the country. Similarly, its habitat quality is also degrading due to siltation and other anthropogenic activities. The estimated Area of Occupancy (3,276 km²) just exceeds the threshold value (2,000 km²) for the Vulnerable Category. In the face of the existing threats, which are likely to continue, the fish is thought to be potentially threatened and hence, *Batasio batasio* is considered as Near Threatened.

Date Assessed: 25 June 2014

History

Regional Status: Considered Not Threatened (IUCN Bangladesh 2000).



Geographic Range

Global : It is found in Bangladesh, India, Nepal and Bhutan. (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: *Batasio batasio* is treated as a freshwater river fish with populations living in adjacent canals in the country as well as some selective haors in Syllhet (Hossain and Haque 2005, Mostafa 2007).

EOO: 61,187 km²

AOO: 3,276 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown

Trend: Its population is decreasing due to habitat destruction and excessive catch.

Habitat and Ecology

This species inhabits larger rivers with clear water having predominantly sandy bottom. It is a voracious carnivorous species.

Assessor: M. Kamrujaman

Hemibagrus menoda

Species ID: FI0140

NEAR
THREATENED
<NT>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Hemibagrus menoda* (Hamilton, 1822)

English Name: Menoda Catfish

Bengali Name: Ghagla, Gang Tengra, Arwari, Kawni

Synonym/s: *Pimelodus menoda* Hamilton, 1822

Bagrus corsula Valenciennes, 1839

Marcones corsula Day, 1878

Mystus menoda Shaw and Shebbeare, 1937

Mystus menoda Jayaram, 1955

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Hemibagrus menoda* is known from a number of rivers and few haors of the country. The Extent of Occurrence (57,600 km²) and Area of Occupancy (7,877 km²) estimated for the species are higher than the upper threshold limits of any Red List Threatened Category. Information on its population size and trend are not currently available. However, our recent field surveys, expert consultation and personal observation suggest that the population of the species is continually declining within its entire distribution ranges. In addition, its habitat is also squeezing due to massive siltation and some other anthropogenic activities. Considering its continuous population decline and habitat degradation, it can be inferred that the species is potentially threatened and likely to be extinct in future. Hence, *H. menoda* is assessed Near Threatened.

Date Assessed: 15 August 2014

History

Regional Status: It was assessed as Not Threatened (IUCN Bangladesh 2000).



Hemibagrus menoda

© Mostafa A R Hossain

Geographic Range

Global: Its global range includes Bangladesh, India (Assam, West Bengal, Bihar, Orissa and Maharashtra), Myanmar and Nepal (Rahman 1989, Talwar and Jhingran 1991).

Bangladesh: Rakanuzzaman (2007) reported that it is a fairly common species in rivers and tributaries of Bangladesh but recently this species is found to occur only in the rivers Someshwari, Kongsho of Netrokona (Ahmed *et al.* 2015), the Brahmaputra-Jamuna River (Rahman and Akhter 2007); the Surma, Kushiara and Shari Rivers of Sylhet division and Itna Haor in Kishoregonj (Pers. obs.) and was also recorded from Mahananda River of Chapai Nawabgonj and their tributaries (Mohsin and Haque 2009).

EOO: 57,600 km²

AOO: 7,877 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Its population is in declining trend for its habitat loss due to massive siltation in river beds and exploitation irrespective of the sizes and breeding time.

Habitat and Ecology

This species inhabits rivers, larger streams and their tributaries. It is a carnivorous fish, feeds on shrimps and other bottom dwelling organisms. It buries in soft and wet clay in bottoms of rivers.

Assessor: Md. Abdur Rob Mollah

Associate Assessor/s: Md. Mizanur Rahman

Mystus cavasius

Species ID: FI0143

NEAR
THREATENED
<NT>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Mystus cavasius* (Hamilton, 1822)

English Name: Gangetic Mystus

Bengali Name: Golsha/ Kabashi-Tengra/ Golsha Tengra

Synonym/s: *Pimelodus cavasius* Hamilton, 1822

Mcrones cavasius Day, 1877

Mystus cavasius Shaw and Shebbeare, 1937

Mystus (Mystus) cavasius Jayaram, 1955

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Mystus cavasius* is widely distributed in the country as reflected in its estimated Extent of Occurrence (2,24,068.36 km²) and Area of Occupancy (18,554.12 km²), both of which are far above the upper thresholds for any IUCN's threatened category. However, widespread habitat loss and degradation, and over- and unplanned exploitation have been causing rapid continuous population decline (pers. obs.). These threats are unlikely to be halted or reversed in near future and thus the fish is potentially threatened. In the absence any conservation measure targeting this species, it is considered as Near Threatened.

Date Assessed: 21 August 2014

History

Regional Status: It was assessed as Vulnerable (IUCN Bangladesh 2000).



Mystus cavasius

© Md. Mizanur Rahman

Geographic Range

Global: It is found in Bangladesh, India, Myanmar, Nepal, Pakistan, Sri Lanka and Thailand (Talwar and Jhingran 1991, Chakrabarty and Ng 2005, Rahman 2005).

Bangladesh: This fish occurs in Tista and Padma-Jamuna-Meghna River systems and their connected beels, baors, lakes, flooded low lands in the north-west to central regions; the Surma, Kushiara and Knagsha River basins and the connected haors and beels in the north-east region, Sangu River and the inter-tidal estuarine rivers and cannels in the south-west to south-east regions in Bangladesh (Islam 2007, Rahman and Akhter 2008).

EOO: 2,24,068 km²

AOO: 18,554 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It lives in freshwater large rivers with sandy to muddy bottoms and there move into haors, baors, beels, canals and inundated fields. Also available in tidal rivers and canals (Islam 2007). The species is amphidromus and potamodromus in habit. Adults usually feed on insect larvae, small fish and detritus along the bottom, while the younger individuals feed partially on zooplankton near the demersal part of the respective habitats.



Assessor: Md. Rafiqun Nabi

Mystus gulio

Species ID: FI0144



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Mystus gulio* (Hamilton, 1822)

English Name: Long-whiskered Catfish, Gulio Catfish

Bengali Name: Nuna-tengra/ Gullya/ Penchgula

Synonym/s: *Pimelodus gulio* Hamilton, 1822

Macrones gulio Day, 1878

Aoria gulio Prashad and Mukerji, 1929

Mystus (Mystus) gulio Jayaram, 1955

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: Although, *Mystus gulio* has been stated to be common in intertidal rivers and estuaries in the south-western and south-eastern parts of the country, however, recent field visits, expert consultation and personal communication (M.M. Rahman; August 2014) suggest a rapid population decline of the species within its entire distribution ranges. The fish is thus potentially threatened and in the absence of any conservation measure targeting the fish, *M. gulio* is considered Near Threatened.

Date Assessed: 21 August 2014

History

Regional Status: It was treated as Data Deficient (DD) (IUCN Bangladesh 2000).



Mystus gulio

© IUCN/ Mohammed Noman

Geographic Range

Global: It is distributed in the Asian countries bordering the Indian Ocean from India to Indonesia, including Bangladesh, Malaysia, Myanmar, Nepal, Pakistan, Sri Lanka, Thailand and Viet Nam (Pethiyagod 1991, Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It prefers estuary, inter-tidal rivers and canals present at the south-west and south-eastern districts of Bangladesh, like Khulna, Bagerhat, Satkhira, Patuakhali, Barguna, Barishal, Noakhali, Moheskhal, Chittagong and Cox's Bazar (Rahman and Akhter 2007).

EOO: 46,216 km²

AOO: 10,111 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

Mystus gulio is primarily a brackish water fish. Adult enters and lives in the inter-tidal part of rivers and connected large water bodies with mud or clay substratum. It is rarely found in smaller streams (Pethiyagoda 1991), but available in marine water. This fish is euryphagous to omnivorous in habit. The adult fish prefers to feed on debris, zooplankton, zoobenthos, other benthic invertebrates, fish eggs and larvae, while the immature and juvenile fish like to feed on diatoms, copepods, cladocerans and rotifers (Rahman and Akhter 2007).

Assessor: Md. Rafiqun Nabi



Conta conta

Species ID: FI0175

NEAR
THREATENED
<NT>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	ERETHISTIDAE

Scientific Name: *Conta conta* (Hamilton, 1822)

English Name: Conta Catfish

Bengali Name: Bot-tengara, Kutakanti

Synonym/s: *Conta conta* (Hamilton, 1822)

Conta elongata (Day, 1872)

Pimelodus conta (Hamilton, 1822)

Hara elongata (Day, 1872)

Hara conta (Hamilton, 1822)

Taxonomic Notes: The species was originally described as *Hara conta* by Hamilton in 1822 later had Hamilton reclassified it as *Pimelodus conta* in 1822; Day adopted the species name '*elongata*' in 1872 and he had reclassified it as *Conta elongata* in 1872. The species name finally adopted as *Conta conta* in 1822 by Hamilton.



Conta conta

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: The fish has been reported from some locations within its limited distribution range in the northeaster parts of the country and is less abundant within its distribution ranges. Information on its population size or trend are not currently available. However, expert consultation suggests that the species has been experiencing a population decline and number threats have caused degradation to its habitats, which are unlikely to be reversed or halted in near future. Hence, *Conta conta* is assessed as Near Threatened.

Date Assessed: 23 September 2014

History

Regional Status: Considered as Not Threatened in Red List of IUCN Bangladesh 2000.

Geographic Range

Global: The species is found in Bangladesh, India, Myanmar and Nepal.

Bangladesh: It is found in rocky streams at the base of hills, mostly in north-eastern parts of Bangladesh.

EOO: 19,087 km²

AOO: 598 km²

Population

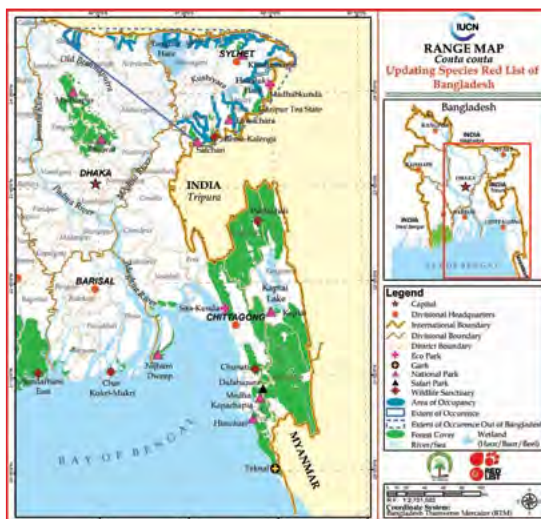
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

The species is found in a wide variety of habitats including streams, rivers and pools.



Assessor: Md. Golam Mustafa

Associate Assessor/s: Balaram Mahalder and Mohammad Ilyas

Gagata youssoufi

Species ID: FI0163



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Gagata youssoufi* Rahman, 1976

English Name: Gangetic Gagata

Bengali Name: Gang Tengra

Synonym/s: None

Taxonomic Notes: In www.iucnredlist.org, *Gagata youssoufi* is described as a junior synonym of *Gagata sexualis*, however in the *Interagency Taxonomic Information System* (www.itis.gov), *Gagata youssoufi* is a valid name and *Gagata sexualis* is a separate species.



Gagata youssoufi

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Gagata youssoufi* is reported from a large number of locations of the country, but found in negligible numbers in fish catches. Fish catch monitoring programme in 30 sites under the Community Based Resource Management Project of the Local Government Engineering Department (LGED) for three years recorded the fish only from 3% and 7% sites of the studied sitews in the year 2008 and 2010. In the year 2009, however, the fish was not observed. There is no information on the population size or population trend of the species. However, local accounts suggest that the population is probably declining compared to earlier days. Expert consultation suggests that the fish is potentially threatened and has a risk of extinction in future, if not protected. Hence, the fish is considered as Near Threatened.

Date Assessed: 06 August 2014

History

Regional Status: The specie was evaluated as Not Threatened (IUCN Bangladesh 2000).

Global: The fish is found in Bangladesh, India and Myanmar (Rahman 2005).

Bangladesh: It is found in the Old Brahmaputra River near Mymensingh, Sangu River near Bandarban, Shashikar Beel near Shariatpur and the Meghna River near Chadpur (Rahman 2005). The fish was also reported from the Jamuna River near kazipur Upazila and also from 3-7% study sites studied under fish catch monitoring programme of the LGED (LGED-CLP).

EOO: 39,826 km²

AOO: 1,330 km²

Population

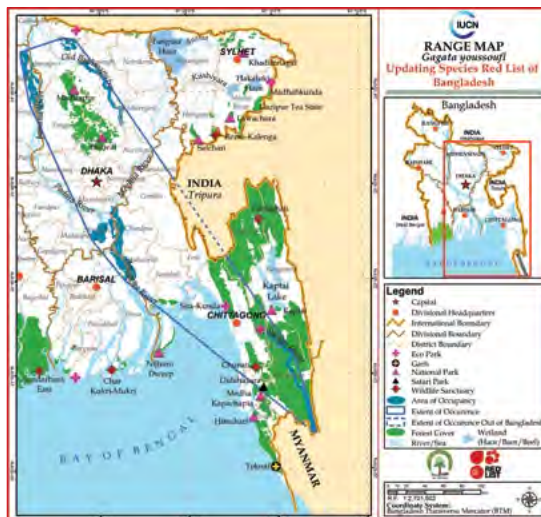
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is mainly found in freshwater rivers and estuaries. It is a bottom feeder and consumes benthos and ooze (Rahman 2005).



Assessor: Md. Golam Mustafa

Associate Assessor/s: Selina Sultana and Mohammed Noman

Plotosus canius

Species ID: FI0186

NEAR
THREATENED
<NT>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	PLOTOSIDAE

Scientific Name: *Plotosus canius* Hamilton, 1822

English Name: Canine Catfish Eel, Gray Eel Catfish, Eel-tail Catfish

Bengali Name: Kain Magur, Gang Magur

Synonym/s: *Plotosus canius* Hamilton, 1822

Plotosus horridus Bleeker, 1846

Plotosus multiradiatus Bleeker, 1846

Plotosus unicolor Valenciennes, 1840

Plotosus viviparus Bleeker, 1846

Taxonomic Notes: None.

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: The fish is distributed in the estuaries, particularly in the south west coast of the country and the mangrove areas. It is a less common species and its population abundance shows a declining trend. Although, the estimated Extent of Occurrence (46,947.01 km²) and Area of Occupancy (10,178.31 km²) are above the threshold values for any IUCN Threatened Category but the fish is impacted by some major threats, including habitat destruction and overexploitation and poses a risk for its extinction in future. It is, therefore, considered as Near Threatened.

Date Assessed: 21 August 2014

History

Regional Status: This fish has been considered as Vulnerable in Bangladesh earlier (IUCN Bangladesh 2000).



Plotosus canius

© IUCN/ Mohammed Noman

Geographic Range

Global: *Plotosus canius* has been reported to be distributed in the west and south coasts of India and off Sri Lanka, eastward along the coasts of Bangladesh and Myanmar, through the Indo-Australian Archipelago and the Philippines as far as Papua New Guinea (Islam 2007).

Bangladesh: It is found in estuaries and the Bay of the country (Rahman 2005), particularly in the southwest coast and mangrove areas (Islam 2007, IPAC 2013).

EOO: 46,947 km²

AOO: 10,178 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Declining.

Habitat and Ecology

It is a predatory fish, feeds on crustaceans, mollusks and fishes, and also consumes aquatic detritus. It is an amphidromous species. Its pectoral fin can sting and may cause painful wounds (Islam 2007). The fish inhabits marine and brackish waters and also freshwaters (Reide 2004).

Assessor: Gawsia Wahidunnessa Chowdhury

Associate Assessor/s: Mst. Sharmin Bulbul



Macrognathus aculeatus

Species ID: FI0239



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SYNBRANCHIFORMES	MASTACEMBELIDAE

Scientific Name: *Macrognathus aculeatus* (Bloch, 1786)

English Name: One-stripe Spinyeel

Bengali Name: Tara Baim

Synonym/s: *Ophidium aculeatum* Bloch, 1786

Rhynchobdella aculeata Day, 1878

Macrognathus aculeatus Smith, 1945

Macrognathus aral Talwar and Jhingran, 1991.

Taxonomic Notes: This species is often misidentified as *Macrognathus aral*. Recently, its taxonomy has been confirmed through DNA barcoding of mitochondrial Cytochrome Oxidase I (COI) gene (Ahmed *et al.* 2015).



Macrognathus aculeatus

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Macrognathus aculeatus* is a widely distributed species in almost all parts of the country but due to habitat loss caused by wetland conversion, squeeze of rivers, canals and floodplains and aquatic pollution, this species is not now abundant within its ranges. Regionally, it was enlisted as Vulnerable earlier, but the present estimation of Extent of Occurrence and Area of Occupancy are much higher than the threshold values of any Threatened Category. It can be assumed from local catches and field visits that the population is declining in many sites studied (pers. obs.) but the quantitative data on its population size reduction are not available. So, *Macrognathus aculeatus* has been assessed as Near Threatened.

Date Assessed: 15 October 2014

History

Regional Status: Considered as Vulnerable in the Red List of IUCN Bangladesh (2000).

Geographic Range

Global: Bangladesh, India, Myanmar, Nepal, Pakistan, Sri Lanka, Malay Archipelago, Syria and West Africa (Saha 2007).

Bangladesh: The species is widely distributed throughout Bangladesh and reported from all the major rivers of the country but in diminished numbers (Rahman 2005, Rahman and Akhter 2007, Ahmed and Akhter 2008, Mahsin and Haque 2009, Galib *et al.* 2013).

EOO: 2,17,468 km²

AOO: 1,1857 km²

Population

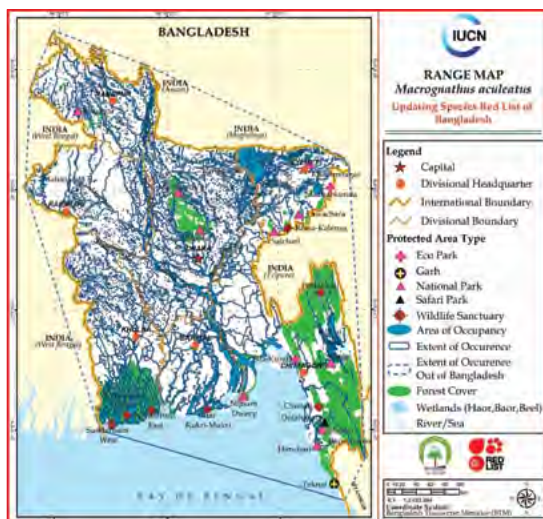
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is detritus and insect larvae feeder. It breeds during monsoon when eggs are attached to aquatic substrata (Saha 2007). It is an inhabitant of muddy bottom of the ponds, ditches, beels, canals, inundated fields and rivers.



Assessor: Md. Abdur Rob Mollah

Ichthyocampus carce

Species ID: FI0192

NEAR
THREATENED
<NT>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SYNGNATHIFORMES	SYNGNATHIDAE

Scientific Name: *Ichthyocampus carce* (Hamilton, 1822)

English Name: Freshwater Pipefish

Bengali Name: Kumirer Khil, Kata Kumirer Khil

Synonym/s: *Syngnathus carce* Hamilton, 1822

Ichthyocampus ponticerianus Kaup, 1855

Ichthyocampus carce Day, 1878

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Near Threatened (NT) ver 3.1

Justification: *Ichthyocampus carce* occurs in rivers and estuaries of the country and comparatively it is a rare fish. Field observations suggest that the population of the species has declined significantly during the last two decades (M. A. R. Hossain pers. comm.) due to some unidentified reasons, it is inferred that the fish is potentially threatened and hence it is assessed as Near Threatened.

Date Assessed: 21 October 2014

History

Regional Status: The taxon has been assessed Not Threatened earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: It is known to occur from West coast of India to Bangladesh and up to Indonesia (Ahmed 2007).



Ichthyocampus carce

© Mostafa A R Hossain

Bangladesh: *Ichthyocampus carce* has been recorded from the Padma River (Hossain and Haque, 2005), Halda River (Azadi and Alam 2011), Dhalwashary River in Munshigonj District (M. A. R. Hossain pers. comm.) and estuaries throughout Bangladesh (Hossain and Haque 2005, Rahman 2005) and also from Sonadia Island (CWBMP 2006).

EOO: 2,24,779 km²

AOO: 16,871 km²

Population

Generation Time (Length): Unknown.

Total Population: No information on the total population is available. However, it is stated to be rare within its habitat range in Bangladesh (Ahmed 2007).

Trend: Presently, the fish is much less available compared to earlier and the population has apparently has declined significantly (M. A. R. Hossain pers.comm).

Habitat and Ecology

This species inhabits a wide variety of habitats and prefers freshwater or low salinity regimes (Dhanya *et al.* 2007). The fish is amphidromous and ovoviviparous. It feeds on worms, crustaceans and small zooplankton. Male carries the eggs in a brood pouch, located under the tail (Ahmed 2007).



Assessor: Gawsia Wahidunnessa Chowdhury



Fisherman catching fish at Paira River, Barisal

A red teardrop-shaped graphic with a rounded top and a pointed bottom, centered on a green background. The text is white and centered within the red shape.

LEAST CONCERN
〈 LC 〉



Pisodonophis boro

Species ID: FI0047



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	ANGUILLIFORMES	OPICHTHIDAE

Scientific Name: *Pisodonophis boro* (Hamilton, 1822)

English Name: Rice-paddy Eel, Bengal's Snake-Eel, Estuary Snake-Eel, Snake Eel

Bengali Name: Bamosh, Kharu, Hijra, Kecho Baim, Nol Baim

Synonym/s: *Conger microstoma* Eydoux & Souleyet, 1850

Ophichthys boro Hamilton, 1822

Pisodonophis assamensis Sen, 1986

Ophisurus potamophilus Bleeker, 1854

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Pisodonophis boro* occurs in estuaries, coastal waters, tidal rivers and nearby rice fields in the southern parts of Bangladesh. It is fairly common in the estuaries and coastal waters. In the absence of any known widespread major threats, the species is assessed Least Concern.

Date Assessed: 20 November 2014

History

Regional Status: Considered Not Threatened (NO) in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global : This species was recorded from Australia, Bangladesh, China, India, Indonesia, Kenya, Madagascar, Philippines, Saudi Arabia, South Africa, Seychelles,



Pisodonophis boro

© Balam Mahalder

Thailand, Taiwan, Viet Nam, Yemen and, elsewhere (Chaudhry 2010).

Bangladesh: It is found in the estuaries and coastal waters of Bangladesh (Rahman and Chowdhury 2007). Rahman (2005) stated that the species is common in estuaries, ascends most tidal rivers and rice fields.

EOO: 46,971 km²

AOO: 10,190 km²

Population

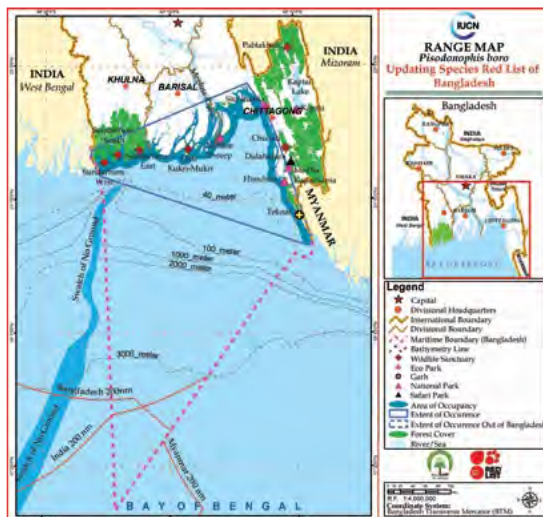
Generation Time (Length): Unknown.

Total Population: Total population is unknown. However, it is common in tidal reaches and nearby upstream areas and the juveniles of the species is quite common in the catches of fishermen operating in Dakatia River near Chandpur (Rahman and Chowdhury 2007).

Trend: Unknown.

Habitat and Ecology

The species inhabits both fresh and brackish waters and occurs in coastal waters, estuaries, tidal rivers and rice fields (Rahman 2005, Chaudhry 2010). Bottom dwellers, lives in holes in the river bottom and bank (Froese and Pauly 2014). *P. boro* is an anadromous and nocturnal fish (Rainboth 1996). It is reported to spawn in rice fields during the rainy season (Rainboth 1996). The species is carnivore and subsists mainly on fish items, crabs and molluscs (Froese and Pauly 2014). The fish moves most effectively backwards (Rahman and Chowdhury 2007).



Assessor: Md. Monirul Islam

Pisodonophis cancrivorus

Species ID: FI0048

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	ANGUILLIFORMES	OPHICHTHIDAE

Scientific Name: *Pisodonophis cancrivorus* (Richardson, 1848)

English Name: Estuary Snake Eel, Longfin Snake Eel, Snake Eel

Bengali Name: Baim

Synonym/s: *Ophisurus cancrivorus* Richardson, 1848

Myrophis chrysogaster Macleay, 1881

Pisodonophis chitkensis Jones & Sujansingham, 1954

Ophichthus madagascariensis Fourmanoir, 1961

Taxonomic Notes: None



Pisodonophis cancrivorus

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

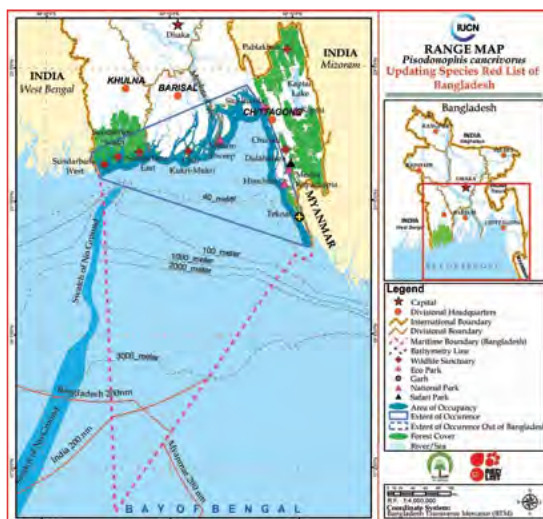
Justification: *Pisodonophis cancrivorus* occurs in coastal waters, estuaries and tidal rivers of Bangladesh with no known major threats. Its estimated Extent of Occurrence (46,970.81 km²) and Area of Occupancy (10,189.88 km²) are greater than the upper limits of thresholds for any IUCN threatened category. There is no known report on its population decline. It is hence assessed as Least Concern.

Date Assessed: 20 November 2014

History

Regional Status: The taxon has been considered as Not Threatened (NO) earlier in IUCN Bangladesh 2000.

Geographic Range



Global: This species is generally found in tropical and sub-tropical seas and known to occur in Red Sea and East Africa to French Polynesia, north to the Ogasawara Islands, south to Australia (Froese and Pauly 2014) and in Bangladesh.

Bangladesh: It is found in the tidal rivers, estuaries and coastal waters of the country. (Rahman and Chowdhury 2007).

EOO: 46,971 km²

AOO: 10,190 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: No information is available on the population trend of the fish.

Habitat and Ecology

P. cancrivorus inhabits marine, freshwater, brackish water, and reef-associated areas. In tidal channels loose groups of this species often congregate and usually seen with just the head exposed (Kuitert and Tonzuka 2001 cited in Froese and Pauly 2014). It is a bottom dweller and lives in the water depth between 1- 20 m (Allen and Erdmann 2012). It is a carnivorous fish, subsisting mainly on a fish diet consisting of teleosts, crustaceans and cephalopods (Rahman and Chowdhury 2007). Like crayfishes, snake eels move most effectively backwards. It spawns twice a year: April-May (primary) and September-October (secondary) (Bal and Rao 1984 cited in Rahman and Chowdhury 2007).

Assessor: Md. Monirul Islam

Xenentodon cancila

Species ID: FI0244



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	BELONIFORMES	BELONIDAE

Scientific Name: *Xenentodon cancila* (Hamilton, 1822)

English Name: Freshwater Garfish, Needle Fish, Silver Needle Fish

Bengali Name: Kankila, Kaikya, Kakila, Kakhla, Kaikka

Synonym/s: *Esox cancila* Hamilton, 1822

Belone graii Sykes, 1839 & 1841

Esox indica McClelland, 1842

Esox hindostanicus Falconer, 1868

Xenentodon cancila Shaw and Shebbeare, 1937.

Taxonomic Notes: None



Xenentodon cancila

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Xenentodon cancila* is one of the commonest freshwater fish species in the country. Recent faunal survey indicates slight decline in population, but there is no concrete data to categorize it under any Threatened Category. Moreover, the Extent of Occurrence (2,17,467.88 km²) and Area of Occupancy (11,856.77 km²) surpass the threshold values of any Threatened Category. Therefore, this species is assessed as Least Concern.

Date Assessed: 20 December 2014

History

Regional Status: Not Threatened (IUCN -Bangladesh 2000).

Geographic Range

Global: It occurs in Bangladesh, India, Malaysian Peninsula, Myanmar, Nepal, Pakistan, Sri Lanka, Thailand (Talwar and Jhingran 1991, Rainboth 1996, Islam 2007).

Bangladesh: It lives in freshwater rivers, haors, baors, beels, lakes and ponds and inter-tidal brackish water rivers and their tributaries all over Bangladesh (Bernacsek 2001, Rahman 2005, Islam 2007, Ahmed 2008, Azadi and Arshad-Ul-Alam 2013).

EOO: 2,17,468 km²

AOO: 11,857 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is an obligate predator to predator, feeding on live small fishes, tadpoles, shrimps, crickets and other insects. In captive condition, it can be offered bloodworm and small earth worms (Islam 2007). Adult can be found in fast-flowing open waters, otherwise, tends to inhabit in littoral parts or slow-flowing pools in rivers with aquatic vegetations, rocky or sandy substrates. Also, found within the aquatic vegetations and debris in haors, baors, beels, ponds, canals and inundated flood plains during the annual monsoon (Ahmed 2008). Pelagic (Islam 2007) and middle littoral zones (Riede 2004) of both lentic and lotic freshwater ecosystems. Amphidromous between rivers and its tributaries as well as in all kinds of fresh and brackish water habitats in Bangladesh (Rahman 2005).



Assessor: Md. Rafiqun Nabi

Oryzias melastigma

Species ID: FI0189

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	BELONIFORMES	ADRIANICHTHYIDAE

Scientific Name: *Oryzias melastigma* (McClelland, 1839)

English Name: Estuarine Ricefish

Bengali Name: Bechi, Kanpona

Synonym/s: *Aplocheilus melastigma* MCClelland, 1839

Panchax argenteus Day, 1868

Haplochilus melastigma Day, 1878

Panchax melastigma Munro, 1955

Oryzias melastigma Sterba, 1962

Taxonomic Notes: None



Oryzias melastigma

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least concern (LC) ver 3.1

Justification: *Oryzias melastigma* is found in the coastal districts and haor areas of the country and it is a fairly abundant species. In the absence of any known major widespread threats to the fish, it is assessed as Least Concern.

Date Assessed: 17 December 2014

History

Regional Status: Not assessed in the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: It is reported from Bangladesh, India and Indo-Malaysian Archipelago, Myanmar, Nepal and Pakistan (Rahman and Chowdhury 2007).

Bangladesh: *O. melastigma* is found in estuaries and tidal rivers in southern Bangladesh, particularly abundant in Khulna Region (Rahman and Chowdhury 2007). It is also found in freshwater bodies, particularly in the Sunamganj Haor areas (WorldFish 2013).

EOO: 34,025 km²

AOO: 5,063 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

O. melastigma is a larvivorous fish and feeds on larvae of aquatic insects and mosquitoes (Rahman and Chowdhury 2007). This fish primarily inhabits estuarine and brackish waters, usually in shallow lagoons and swamps among roots and mangroves along the margin of water, readily adapts to freshwater conditions and even breeds in freshwater ponds, lakes and rivers (Menon 1999).



Assessor: Sumaiya Ahmed

Dermogenys pusillus

Species ID: FI0246



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	BELONIFORMES	HEMIRAMPHIDAE

Scientific Name: *Dermogenys pusillus* van Hasselt, 1823

English Name: Wrestling Halfbeak, Sumatran Halfbeak, Malayan Halfbeak

Bengali Name: Ek Thota

Synonym/s: *Dermogenys pusillus* van Hasselt, 1823
Dermogenys burmanicus Mukerji, 1935

Taxonomic Notes: Livebearer *D. pusillus* differ from other halfbeak in the presence of upper jaw longer than broad. Males with a clear red spot on pelvic fins. First anal finray bright red.



Dermogenys pusillus

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Dermogenys pusillus* is widely found in the brackish and inter-tidal to freshwater habitats in Bangladesh. There is no specific information about its population size. The Extent of Occurrence (2,17,467.88 km²) and Area of Occupancy (9,400 km²) are very large. Therefore, *Dermogenys pusillus* has been assessed as Least Concern.

Date Assessed: 23 January 2015

History

Regional Status: Assessed as Endangered in the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: It is found in wide range of southeast Asian

countries like Bangladesh, China, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippine, Singapore, Thailand, Vietnam (Wongsiri 1982) and later introduced elsewhere due to its popularity as a fighting fish (Axelrod and Shaw 1967, Wischnath 1993).

Bangladesh: It inhabits shallow brackish to freshwater rivers, rivulets, canal, drains, mangrove swamps, ponds and lakes along the southern and central regions in Bangladesh (Rahman and Gawsia 2007, Chandra *et al.* 2011), Karnaphully River and Reservoir near Kaptai Lake (Rahman 2005). It has also been encountered in the Kudum Cave, Whykeong, Teknaf under Cox's Bazar District (M A R Khan pers. comm.).

EOO: 2,17,468 km²

AOO: 9,400 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It feeds on live animals like small invertebrates, including crustaceans, insect larvae and flying insects that have fallen in the surface of the water (Rahman and Gawsia 2007), *Artemia nauplii*, small crustaceans, worms and flakes in aquarium condition (Siriwat 1982, Dawes 1995). Juveniles are found in the surface water of shallow well vegetated brackish to freshwater canals, drains, ponds and lakes along the coastal regions and the mixed-evergreen forest wetlands. The adults can live in the still water part of all kinds of natural water habitats (Chandra *et al.* 2011). Pelagic, inhabits at the surface of water. It prefers shallow well vegetated brackish to slightly brackish as well as freshwater running to still water habitats of all the southern and central parts of Bangladesh (Rahman 2005, Chandra *et al.* 2011).

Assessor: Md. Rafiqun Nabi



Hyporhamphus limbatus

Species ID: FI0247

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	BELONIFORMES	HEMIRAMPHIDAE

Scientific Name: *Hyporhamphus limbatus* (Valenciennes, 1847)

English Name: Congaturi Halfbeak

Bengali Name: Ek Thuita, Ek Thuitta, Ek Thota

Synonym/s: *Hemiramphus limbatus* Valenciennes, 1847

Hemiramphus tridentifer Cantor, 1849

Hemiramphus sinensis Gunther, 1866

Hemiramphus gorakhpurensis Srivastava, 1967

Taxonomic Notes: Specific taxonomic notes about the species is the presence of beak like short triangular and scaly upper jaw, but longer lower jaw with fleshy reddish tip. The species was originally described as *Hemiramphus limbatus* by Valenciennes (1847) from Malabar Coast of India.



Hyporhamphus limbatus

© IUCN/ Mohammed Noman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Hyporhamphus limbatus* occurs in the brackish and inter-tidal to freshwater habitats in Bangladesh, but nothing is known about the population size. But the Extent of Occurrence (75,823.69 km²) and Area of Occupancy (12,335.40 km²) as well as the number of location (10) do not support any Threatened status. Similarly, no observed or estimated data are available to predict any quantitative status about the mature individuals and their probability of extinction in the wild too. Therefore, the species is assessed as Least Concern.

Date Assessed: 23 January 2015

History

Regional Status: Assessed as Not Threatened (IUCN Bangladesh 2000).



Geographic Range

Global: It is found along the mainland coast of Indo-West Pacific and Persian Gulf to China (Collette and Su 1986). In Asia, it is known from Bangladesh, China, India, Malaysia, Myanmar, Pakistan, Sri Lanka, Taiwan, Thailand and Viet Nam (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It lives in all tidal freshwater and brackish estuaries of all the south-west and south-eastern districts of Bangladesh (Rahman 2005), Halda River (Azadi and Arshad-Ul-Alam 2013) and the Sundarbans Mangrove Forest (Huda *et al.* 2003).

EOO: 75,824 km²

AOO: 12,335 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It mainly feeds on zooplankton and aquatic insects (Rainboth 1996, Lim *et al.* 1999, Rahman and Morshed 2007). It is potamodromous. It inhabits coastal waters, estuaries and freshwater of the inter-tidal rivers in the southern districts of Bangladesh (Talwar and Jhingran 1991, Riede 2004, Rahman and Morshed 2007).

Assessor: Md. Rafiqun Nabi

Anodontostoma chacunda

Species ID: FI0049

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	CLUPEIDAE

Scientific Name: *Anodontostoma chacunda* (Hamilton, 1822)

English Name: Shortnosed Gizzard Shad, Chacunda Gizzard Shad

Bengali Name: Chacunda, Dombura, Koiputi

Synonym/s: *Anodontostoma chanpole* Hamilton, 1822

Dorosoma chacunda Hamilton, 1822

Clupanodon chanpole Hamilton, 1822

Anodontostoma hasseltii Bleeker, 1849

Gonostoma javanicum Hyrtl, 1855

Taxonomic Notes: None



Anodontostoma chacunda

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Anodontostoma chacunda* occurs along the coasts of Bangladesh, including coastal waters and estuaries. The estimated Extent of Occurrence (1,45,629.65 km²) and the Area of Occupancy (1,17,811.32km²) of the species are much higher than the upper threshold values for any IUCN threatened category. The fish is common in coastal fish catches and also observed abundant in local fish markets and landing centres of Satkhira, Alipur-Mohipur, Barisal, Chittagong and Cox's Bazar (Hossain and Ahmed 2013, Hossain *et al.* 2013). It comprised about 0.35% by weight of the total fish catches in greater Noakhali areas (Hossain *et al.* 2014). Considering the above and in the absence of any known major threats it is assessed Least Concern.

Date Assessed: 16 September 2014

History

Regional Status: This taxon has been assessed as Not Threatened (NO) earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: Global distribution of this species ranges from Persian Gulf to coasts of India and Andaman Sea, to Gulf of Thailand, Indonesia, Viet Nam, and Philippines, south to northern Australia, the Caroline Islands and New Caledonia (Whitehead 1985)

Bangladesh: It occurs in the Bay of Bengal and the coast of Alipur-Mohipur (Patuakhali), Barisal, Chittagong, Cox's Bazar, Noakhali, Satkhira, Teknaf and also Sundarbans (Hossain and Ahmed 2013, Hossain *et al.* 2013, Hossain *et al.* 2014).

EOO: 1,45,630 km²

AOO: 1,17,811 km²

Population

Generation Time (Length): Unknown.

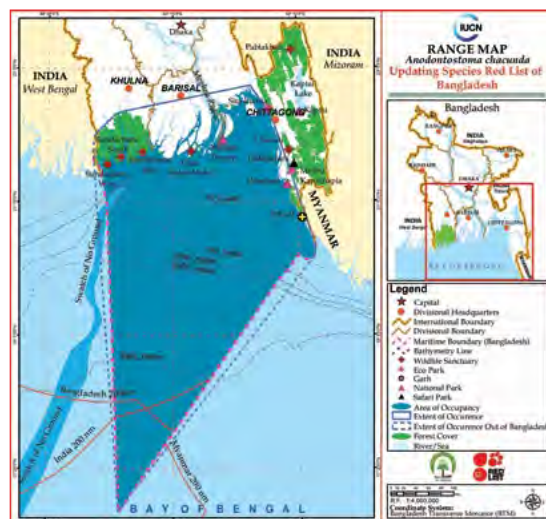
Total Population: Total population is unknown. However, it is a common species in fish catches from marine and coastal waters.

Trend: Unknown.

Habitat and Ecology

A. chacunda inhabits marine and brackish waters and usually lives in marine-coastal environment and ascends rivers to the upper tidal zone. It is an anadromous pelagic-neritic fish in the depth range 0-50 m, feeds on diatoms, radiolarians, copepods and crustaceans. It breeds from November to February, mainly in the later part of the month.

Assessor: Mostafa Ali Reza Hossain



Corica soborna

Species ID: FI0050



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	CLUPEIDAE

Scientific Name: *Corica soborna* Hamilon, 1822

English Name: Ganges River-sprat

Bengali Name: Kachki, Subarna, Kharika

Synonym/s: *Spratella pseudoaterus* Bleeker, 1852

Corica biharensis Kamal & Ahsan, 1979

Taxonomic Notes: None



Corica soborna

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Corica soborna* is widely distributed in river and estuarine systems of Bangladesh and relatively abundant within its habitat ranges. The estimated Extent of Occurrence (2,17,467.88 km²) and Area of Occupancy (9,326.97 km²) of this species are much higher than the upper threshold values for any IUCN threatened category. In the absence of any known major widespread threat it is assessed as Least Concern.

Date Assessed: 25 February 2015

History

Regional Status: It has been considered as Not Threatened earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *C. soborna* is known to occur in India (West Bengal, Orissa), Bangladesh and Indonesia. It is also reported from the Bangpakong River in Thailand (Suvatti 1981, Wahab 2007).

Bangladesh: It occurs throughout Bangladesh and has been recorded from the major rivers of the country and also from the Kaptai Lake (Wahab 2007).

EOO: 2,17,468 km²

AOO: 9,327 km²

Population

Generation Time (Length): The exact generation time of this fish is not known. However, its minimum population doubling time is less than 15 months.

Total Population: Total population of this species is not known, however, it is found abundant within its habitat ranges. It comprised about 20% of the fish total fish catches from Kaptai Lake (Wahab 2007).

Trend: Information on its population trend is unknown.

Habitat and Ecology

The fish inhabits freshwaters and occurs in rivers and estuaries and in reseivours. This pelagic species is amphidromous and plankton feeder with numerous long gillrakers, which serve as efficient straining devices (Wahab 2007).



Assessor: Gawsia Wahedunessa Chowdhury

Gonialosa manmina

Species ID: FI0051

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	CLUPEIDAE

Scientific Name: *Gonialosa manmina* (Hamilton, 1822)

English Name: Ganges River Gizzard Shad

Bengali Name: Chapila, Goni Chapila

Synonym/s: *Clupanodon manmina* Hamilton, 1822

Chatoessus manmina Day, 1878

Gonialosa manmina Munro, 1955

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Gonialosa manmina* occurs in the rivers and estuaries throughout Bangladesh (Rahman and Ruma 2007; Hossain *et al.* 2012). There is no known report on its population decline. In the absence of any known major widespread threats the species is assessed as Least Concern.

Date Assessed: 25 February 2014

History

Regional Status: *Gonialosa manmina* was assessed as Not Threatened in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Gonialosa manmina* is reported from Bangladesh, India, Pakistan and Sri Lanka (Rahman and Ruma 2007).



Gonialosa manmina

© Balam Mahalder

Bangladesh: This fish has been recorded from almost all the rivers and estuaries in Bangladesh, particularly from the Padma, Jamuna, Brhmaputra, Surma, Kushiara, Karnaphuli Rivers (Rahman 2007, Azadi and Arshad-UI Alam 2013, Hossain *et al.* 2014).

EOO: 2,24,779 km²

AOO: 16,360 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

G. manmina inhabits estuaries and tidal rivers. It is a pelagic, amphidromous fish and plankton feeder. It breeds mainly in the river mouths in near shore areas.



Assessor: Gawsia Wahidunnessa Chowdhury

Hilsa kelee

Species ID: FI0052



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	CLUPEIDAE

Scientific Name: *Hilsa kelee* (Cuvier, 1829)
English Name: Keele Shad, Five Spot Herring
Bengali Name: Gurta llish

Synonym/s: *Macrura kelee* Cuvier, 1829
Alosa brevis Bleeker, 1848
Alosa kanagurta Bleeker, 1852
Hilsa kanagurta Bleeker, 1852
Alosa malayana Bleeker, 1866
Clupea platygaster Günther, 1868
Clupea durbanensis Regan, 1906
Macrura durbanensis Regan, 1906

Taxonomic Notes: *Hilsa kelee* has not been described in Rahman (2005) and also in Encyclopedia of Freshwater Fishes of Bangladesh (Siddiqui *et al.* 2007). Its occurrence in Bangladesh waters needs to be verified.

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Hilsa kelee* occurs in the Bay of Bengal, along the coasts, upstream rivers and floodplains. Both the Extent of Occurrence (64,962 km²) and the Area of Occupancy (50,756 km²) are much higher than the upper thresholds of any IUCN Threatened Category. Although, the species is less abundant in the hilsa catches (Hoq and Haroon 2012), however, it comprised 0.05% of total fish catches and 0.71% of the small pelagics in the trawl survey carried out in the Bay of Bengal (Mustafa 2003). There is no major known widespread threat to its abundance and quality of its habitat. Therefore, *Hilsa kelee* is assessed as Least Concern.

Date Assessed: 17 September 2014



Hilsa kelee

© Md. Sagir Ahmed

History

Regional Status: Not assessed earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Hilsa kelee* is found in Indo-West Pacific; probably all coasts of Indian Ocean, from Gulf of Oman and Gulf of Aden south to Transkei, South Africa and Madagascar, across the Bay of Bengal, Gulf of Thailand, Java Sea and north to Hong Kong and east to Papua New Guinea and possibly further. Also found in the basin-wide mainstream of the lower Mekong. Native to Andaman Sea, Arabian Sea, Bay of Bengal, East China Sea, Gulf of Aden, Gulf of Oman, Gulf of Thailand, Indian Ocean, Indonesian Sea, Lagonoy Gulf, Pacific Ocean, Peng-hu Island, Red Sea, San Miguel Bay, Somali Coastal Current, South China Sea, Sulu-Celebes Sea, Godavari, Mekong, Zambezi and Chilika Lake/Lagoon.

Bangladesh: Recorded from Cox's Bazar Mangrooves, three oxbow lakes—Bookbhora, Kanadaha and Rajgonj of Jessore, Bay of Bengal and coastal areas of Bangladesh (Mahmood 1995, Middendorp *et al.* 1999, Mustafa 2003, Hoq and Haroon 2012).

EOO: 64,962 km²

AOO: 50,756 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is unknown. However, *Hilsa kelee* comprised about 0.05% of the total fish catches and 0.71% of the small pelagics in the trawl survey in the Bay of Bengal (Mostafa 2003). Hoq and Haroon (2012) recorded the species as a less dominant among the hilsa catches from the Bay of Bengal.

Trend: Unknown.

Habitat and Ecology

Hilsa kelee inhabits marine, brackish, freshwaters and mainly found in coastal waters and enters estuaries. This pelagic fish feeds chiefly on phytoplankton but also takes copepods, molluscan and crustacean larvae, prawns, amphipods and polychaetes. The fish can tolerate quite low salinities (7 ppt).

Assessor: Mostafa Ali Reza Hossain



Nematalosa nasus

Species ID: FI0053



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	CLUPEIDAE

Scientific Name: *Nematalosa nasus* (Bloch, 1795)
English Name: Bloch's Gizzard Shad, Long-ray Bony Bream, Hairback, Long-finned Gizzard Shad, Gizzard shad, Thread-finned Gizzard Shad
Bengali Name: Barang, Borong
Synonym/s: *Clupea nasus* Bloch, 1795
Dorosoma nasus Bloch, 1795
Nematalosus nasus Bloch, 1795
Clupanodon nasica Lacepède, 1803
Chatoessus altus Gray, 1834
Chatoessus chrysopterus Richardson, 1846

Taxonomic Notes: None



Nematalosa nasus

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Nematalosa nasus* is widely distributed in the coastal waters and estuaries. There is no known reports on its population decline. In the absence of any known major widespread threat *Nematalosa nasus* is assessed as Least Concern.

Date Assessed: 16 March 2015

History

Regional Status: *Nematalosa nasus* has been considered Not Threatened (NO) in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Nematalosa nasus* is known to occur in the Gulf of Aden north to the Persian Gulf, then eastward to the Andaman Sea, South China Sea and the Philippines, and north to southern tip of Korea. There is a single record from South Africa (Whitehead 1985).

Bangladesh: The species occurs in the Bay of Bengal and mouths of large rivers in Bangladesh (Rahman 2005).

EOO: 61,448 km²

AOO: 34,618 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Nematalosa nasus inhabits fresh, marine and brackish waters and found in bays and lagoons, intertidal zone around estuaries, coastal areas, and mangrove forests (Rainboth 1996) Occasionally, the fish also ascends into the upper reaches of the tidal zone. Pelagic-neritic, depth range 0-30 m. It is tolerant of a range of salinities from freshwater to marine. This species is a filter feeder. Adults and juveniles frequently visit mangroves and brackish waters. It is an anadromous species and ascends rivers to spawn.



Assessor: Mst. Kaniz Fatema

Tenualosa ilisha

Species ID: FI0054



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	CLUPEIDAE

Scientific Name: *Tenualosa ilisha* (Hamilton, 1822)

English Name: River Shad, Hilsha Shad

Bengali Name: Ilish, Ilisha

Synonym/s: *Clupanodon ilisha* Hamilton, 1822

Clupea palasah Cuvier, 1829

Clupea ilisha Day, 1878

Hilsha ilisha Regan, 1917

Macrura ilisha Fowler, 1941

Tenualosa ilisha Munro, 1955

Taxonomic Notes: None



Tenualosa ilisha

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Tenualosa ilisha* occurs throughout the entire coastal waters, estuaries and tidal rivers and also in the further upstream rivers in Bangladesh (Rahman 2007). The species is common within its habitat ranges and it is the single most species contributing most (4.27%) to the total fish catch in the country (FRSS 2013). Although, habitat destruction in the estuarine and riverine areas is considered a threat to the species, however, several management action are in place for the sustainable management of the species. There is no reliable information on its population decline and apparently there is no major widespread threat to the species. Hence, the species is assessed as Least Concern.

Date Assessed: 19 December 2014

History

Regional Status: The taxon has been assessed Not Threatened (NO) earlier in Bangladesh (IUCN Bangladesh 2000).



Geographic Range

Global: *Tenualosa ilisha* occurs in the Indian Ocean from the Gulf, east to the coasts of India, as far as Myanmar (Burma). It has also been reported from the Gulf of Tonkin (Viet Nam) as well as the Tigris River and probably other rivers of southern Iran. Native countries of the species include Bangladesh, India, Iran, Iraq, Kuwait, Malaysia (Peninsular Malaysia), Myanmar, Oman, Pakistan, Qatar, Saudi Arabia, Sri Lanka, Thailand, United Arab Emirates and Viet Nam (Freyhof 2014).

Bangladesh: This species is found in coastal shelf, brackish water estuaries and freshwater rivers far above the tidal influences. It is abundant in the lower Padma River, lower Meghna River, Rupsha River, Sibsha River, Bishkhal River, Tetulia River, Arial Kha River, Galachipa River, Pyra River and a few other rivers in the coastal region of Bangladesh (Rahman 2007).

EOO: 75,824 km²

AOO: 12,336 km²

Population

Generation Time (Length): Life-span of this species has been recorded up to 2–4 years (Milton 2009).

Total Population: The total population of the species is unknown. However, the fish is common within its habitat ranges, being more in estuaries and coastal waters (Rahman 2007).

Trend: Catch statistics shows an increasing trend in hilsa production (FRSS 2013). The total hilsa production has increased by about 48% during the period 1987–2007 (Mome 2007).

Habitat and Ecology

The fish inhabits marine and brackish waters, and ascends rivers far above the tidal influence. This pelagic fish is mostly found in the clean water in the sandy or weedy grounds along the coast and also in the lower estuaries. It is usually found in the depth range 0–100 m. This is an anadromous and euryhaline species, feeds mainly on planktonic organism, especially diatoms, forms large schools in coastal waters (Rahman 2007). This species is a fast swimmer and ascends rivers to spawn. It grows fast and reaches sexual maturity within 6–12 months (Hossain *et al.* 2014).

Assessor: Gawsia Wahidunnessa Chowdhury

Tenualosa toli

Species ID: FI0055



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	CLUPEIDAE

Scientific Name: *Tenualosa toli* (Valenciennes, 1847)

English Name: Toli Shad, Shad

Bengali Name: Chandana Ilish

Synonym/s: *Alausa toli* Valenciennes, 1847

Clupea toli Day, 1878

Tenualos sinensis Munro, 1955

Hilsa toli Regan, 1917

Taxonomic Notes: Sometimes, the species is confused with the *Tenualosa ilisha*, especially at the juvenile stage and therefore it may not be always distinguishable from *T. ilisha* in catches (Rahman and Chowdhury 2007).



Tenualosa toli

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This species has a wide range of distribution and occurs in marine, estuarine and riverine environments in Bangladesh (Rahman 2007, Hossain *et al.* 2014). Although, the species is highly sought along with other shad, there is no reports on its population decline. Hence, the species is assessed as Least Concern.

Date Assessed: 19 December 2014

History

Regional Status: The taxon was assessed as Not Threatened in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: The species occurs in the Indo-West Pacific

region from eastern and western coasts and rivers of India, Bangladesh, Andaman Sea. Indonesia to Java Sea, Gulf of Thailand and South China Sea (<http://www.fishbase.org/summary/1600> Accessed on 5 November 2014).

Bangladesh: Chandana Ilish is abundant in the lower Padma, lower Meghna River, Rupsha River, Sibsha River, Biskhali River, Tetulia River, Arial Kha River, Galachipa River, Pyra River and other rivers in the coastal region of Bangladesh (Rahman and Chowdhury 2007, Hossain *et al.* 2014).

EOO: 78,779 km²

AOO: 5,247 km²

Population

Generation Time (Length): Unknown.

Total Population: The total population is unknown, however, they are abundant in the coastal waters and estuaries.

Trend: Unknown.

Habitat and Ecology

T. toli inhabits marine, coastal brackish waters and ascends to tidal rivers. This fish is pelagic euryhaline, anadromous and often found schooling in the coastal waters. The fish feeds on plankton, mainly by filter feeding but apparently also by grubbing on the muddy bottoms. Diatoms, protozoans, crustaceans, mollusks and tunicates are recorded as food items for the Chandana Ilish. It breeds mainly in the river mouth in near shore areas. The main breeding season is during the southwest monsoon, with another shorter breeding season from January to February or March (Hossain *et al.* 2014, Rahman and Chowdhury 2007).

Assessor: Gawsia Wahidunnessa Chowdhury



Coilia dussumieri

Species ID: FI0060

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	ENGRAULIDAE

Scientific Name: *Coilia dussumieri* Valenciennes, 1848

English Name: Gold Spotted Grenadier Anchovy

Bengali Name: Olua

Synonym/s: *Coilia quadrifilis* Günther, 1868

Demicoilia margaritifera Jordan & Seale, 1926

Democoilia margaritifera Jordan & Seale, 1926

Leptonurus chryso stigma Bleeker, 1849

Taxonomic Notes: None



Coilia dussumieri

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This species occurs along the coast of the Bay of Bengal and estuaries in Bangladesh and found fairly common in the Sundarbans estuaries (Rahman and Chowdhury 2007). Apparently, the species is not over-exploited and in the absence of any known widespread threat, *Coilia dussumieri* is assessed as Least Concern.

Date Assessed: 19 November 2014

History

Regional Status: This species has been assessed Not Threatened (NO) in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *C. dussumieri* is found in Bangladesh, India Myanmar and, Sri Lanka, eastwards to Southeast Asia (Rahman and Chowdhury 2007).

Bangladesh: It occurs in coastal waters of the Bay of Bengal and estuaries of Bangladesh and enters tidal rivers (Rahman and Chowdhury 2007).

EOO: 1,40,457 km²

AOO: 99,519 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

C. dussumieri inhabits marine and brackish waters and ascends tidal rivers. This pelagic fish feeds on copepods, prawns, fish larvae, crustacean larvae and polychaete larvae. It breeds mainly in the estuaries during March-May (Rahman and Chowdhury 2007).



Assessor: Gawsia Wahidunnessa Chowdhury

Associate Assessor/s: Md. Anwar Hossain

Coilia ramcarati

Species ID: FI0061



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	ENGRAULIDAE

Scientific Name: *Coilia ramcarati* (Hamilton, 1822)
English Name: Grenadier Anchovy, Ramcarat, Tapetail Anchovy, Rat-tailed Anchovy
Bengali Name: Megha Olua, Olua, Boiragi
Synonym/s: *Mystus ramcarati* Hamilton, 1822
Engraulis hamiltonii Gray, 1830
Coilia quadragesimalis Valenciennes, 1848
Coilia cantoris Bleeker, 1853

Taxonomic Notes: None



Coilia ramcarati

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This species occurs along the coast of the Bay of Bengal, estuaries and tidal rivers of Bangladesh (Rahman and Chowdhury 2007) and contributes significantly to the coastal artisanal fishery (Nabi 2007). There is no evidence that the species is over-exploited or it experiences a population decline. Hence, in the absence of any major widespread threat, *Coilia ramcarati* is considered as Least Concern.

Date Assessed: 19 November 2014

History

Regional Status: The taxon has been assessed as Not Threatened (NO) (IUCN Bangladesh 2000).

Geographic Range

Global: It occurs in the Indian Ocean, Ganges delta and

the Bay of Bengal (Rahman and Chowdhury 2007).

Bangladesh: The species is found in all coastal waters, estuaries and lower tidal rivers of Bangladesh (Rahman and Chowdhury 2007) and also in the Sundarbans (Huda *et al.* 2003).

EOO: 75,800 km²
AOO: 12,207 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on the total population of the species is unknown. However, it contributes about 0.12%-2.25% to the artisanal fishery in the coastal waters of Bangladesh (Nabi 2007).

Trend: Unknown.

Habitat and Ecology

The fish inhabits marine and coastal waters and ascends to the tidal rivers. It is a pelagic species, feeds on copepods, prawns, fish larvae, crustacean larvae and polychaete larvae. It usually schools in large numbers and breeds mainly in the estuaries, during March-May (Rahman and Chowdhury 2007).



Assessor: Gawsia Wahidunnessa Chowdhury

Setipinna phasa

Species ID: FI0063



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	ENGRAULIDAE

Scientific Name: *Setipinna phasa* (Hamilton, 1822)

English Name: Gangetic Hairfin Anchovy

Bengali Name: Phasa, Phaissa, Phasa Kata, Tel-tampori

Synonym/s: *Clupea phasa* Hamilton, 1822

Clupea telara Hamilton, 1822

Engraulis telara Hamilton, 1822

Setipinna megalura Swainson, 1839

Setipinna truncata Swainson, 1839

Taxonomic Notes: This species is often confused with *Setipinna taty*. The fish could be identified by its deep black pectoral fin and anal with 64-72 fin rays.



Setipinna phasa

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Setipinna phasa* occurs in all rivers and estuaries throughout Bangladesh (Saha 2007). It is doubted that its population is declining due to habitat loss and overexploitation. However, no published empirical data are available on its population trend. The estimated Extent of Occurrence (2, 24,779.16 km²) and Area of Occupancy (16,343.33 km²) are above the upper threshold values of any IUCN Redlist Threatened Category. As a widespread species with limited threats, the species is unlikely to face the risk of extinction in near future and hence, it is assessed as Least Concern.

Date Assessed: 20 November 2014

History

Regional Status: The species has been considered as Not

Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: This species is found in Bangladesh, India and Myanmar (Saha 2007).

Bangladesh: The species occurs in most rivers and estuaries throughout Bangladesh and also in the Sundarbans (Rahman 2005, Saha 2007).

EOO: 2,24,779 km²

AOO: 16,343 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on the total population of the species is currently unavailable.

Trend: Although no empirical data are available, recent surveys by the Department of Zoology, Dhaka University suggest that the species is declining. Interview of local fishers also indicates a decline in the population abundance of the species due to habitat loss and over-exploitation (Ahmed *et al.* 2015).

Habitat and Ecology

Setipinna phasa inhabits fresh- and brackish waters, and occurs in rivers and estuaries, usually not in shallow water bodies. This pelagic fish is omnivorous habit, adults feed mainly on mysids and small prawns, and juveniles mainly subsist on unicellular and multicellular algae, protozoans and crustaceans (Saha 2007). It possibly breeds throughout the year, with peaks in October and November in the estuaries or March-May in the rivers (Whitehead *et al.* 1988).



Assessor: Md. Sagir Ahmed

Setipinna taty

Species ID: FI0064



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	ENGRAULIDAE

Scientific Name: *Setipinna taty* (Valenciennes, 1848)

English Name: Scaly Hairfin Anchovy

Bengali Name: Teli Phasa

Synonym/s: *Engraulis taty* Valenciennes, 1848

Engraulis telaroides Bleeker, 1849

Stolephorus taty Valenciennes, 1848

Setipinna lighti Wu, 1929

Taxonomic Notes: None



Setipinna taty

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Setipinna taty* occurs in all rivers and estuaries throughout Bangladesh. Apparently, the species shows a population decline due to habitat destruction and indiscriminate harvesting throughout its habitat ranges. However, no empirical data are available on its population decline. The estimated Extent of Occurrence (2,24,779 km²) and the Area of Occupancy (16,343.33 km²) are above the upper thresholds for Vulnerable category. As a widespread species with known limited threats, *S. taty* is assessed as Least Concern.

Date Assessed: 20 November 2014

History

Regional Status: The species has been assessed as Not Threatened (NO) (IUCN Bangladesh 2000).

Geographic Range

Global: It is reported from Indo-West Pacific Region, including the Bay of Bengal south to Penang; Thailand south to Java and southern Kalimantan (Munroe and Nizinski 1999).

Bangladesh: The species occurs in all major rivers and estuaries throughout Bangladesh, including the Sundarbans (Huda and Haque 2003, Rahman and Chowdhury 2007).

EOO: 2,24,779 km²

AOO: 16,343 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is unknown. However, the species is reported to be common (Rahman and Chowdhury 2007).

Trend: The prevailing idea is that its population is declining.

Habitat and Ecology

Setipinna taty is omnivorous and adults feed mainly on unicellular and multicellular algae, protozoans and crustaceans. Probably, it breeds throughout the year, with peaks in October and November in the estuaries and March-May in the rivers (Whitehead *et al.* 1988).

It is a surface-dwelling fish and inhabits both fresh and brackish waters and found mostly in large rivers and estuaries (Rahman 2005).



Assessor: Md. Sagir Ahmed

Thryssa purava

Species ID: FI0065



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	ENGRAULIDAE

Scientific Name: *Thryssa purava* (Hamilton 1822)

English Name: Oblique-Jaw Thryssa, Gangetic Anchovy

Bengali Name: Fasha, Phansa

Synonym/s: *Clupea purava* Hamilton, 1822

Thryssa purava Hamilton, 1822

Thryssa megastoma Swainson, 1839

Engraulis annandalei Chaudhuri, 1916

Taxonomic Notes: None



Thryssa purava

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: It is found throughout the coastal waters of Bangladesh, mostly in inshore areas and also available in low salinity estuarine areas. As a widespread species with no known major widespread threat, *T. purava* is assessed as Least Concern.

Date Assessed: 20 November 2014

History

Regional Status: This species has been considered as Not Threatened (NO) (IUCN Bangladesh 2000).

Geographic Range

Global: The species is known to occur in the east coast of India, coasts of Bangladesh and Myanmar to Penang; Thailand south to Java and southern Kalimantan (Munroe and Nizinski 1999).

Bangladesh: The fish occurs all along the coastal waters of Bangladesh and estuaries, and also in the Sundarbans (Huda and Haque 2003, Rahman 2005, Rahman and Chowdhury 2007).

EOO: 84,958 km²

AOO: 50,025 km²

Population

Generation Time (Length): Unknown.

Total Population: No information on the total population of the species is currently available. However, a large quantity of the fish is landed from the catches of marine set-bag net catches (Rahman and Chowdhury 2007).

Trend: Unknown.

Habitat and Ecology

T. purava inhabits marine and brackish waters. It is pelagic-neritic, and occurs in the depth range of 0-50 m. The fish is an omnivore, adults feed mainly on unicellular and multicellular algae, protozoans and crustaceans. The fish probably breeds throughout the year with peaks in October and November in estuary or March-May in rivers. The fish is oceanodromous (Riede 2004).



Assessor: Md. Sagir Ahmed

Ilisha filigera

Species ID: FI0056



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	PRISTIGASTERIDAE

Scientific Name: *Ilisha filigera* (Valenciennes, 1847)

English Name: Coromandel Ilish, Jewelled Ilisha, Jewelled Shad, Big-eyed Herring, Big Eye Shad

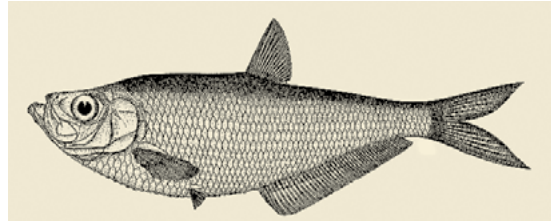
Bengali Name: Choukkha Phasia

Synonym/s: *Pellona filigera* Valenciennes, 1847

Pellona xanthopterus Bleeker, 1851

Ilisha xanthopterus Bleeker, 1851

Taxonomic Notes: None



Ilisha filigera

© (FAO 1985)

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Ilisha filigera* is one of the most commonly caught clupeid in coastal waters of Bangladesh. The estimated Extent of Occurrence (2,44,971 km²) and Area of Occupancy (58,052 km²) of the species are far above the upper threshold values for any IUCN Threatened Category. Current population size is not known for Bangladesh. Some documents, however, report a healthy catch of *I. filigera* in the country (Khan *et al.* 2003, Mustafa 2003, CPGCBL 2013), therefore, the fish is assessed as Least Concern.

Date Assessed: 19 September 2014

History

Regional Status: The taxon has not been assessed earlier in Bangladesh.

Geographic Range

Global: *I. filigera* is native to Arabian Sea, Bay of Bengal, Indian Ocean, Indonesian Sea, Pacific Ocean and South China Sea (Rashid *et al.* 2007).

Bangladesh: The species occurs in all along the coastal waters and lower estuaries in Bangladesh (Rashid *et al.* 2007).

EOO: 2,44,971 km²

AOO: 58,052 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of *I. filigera* is unknown. However, in 2003 the total catch of *I. filigera* was about 677 metric tons which is 1.36% of the total fish catch from the Bay of Bengal (Mustafa 2003). The species accounted 0.44% of the fish catch from the Bay of Bengal (Khan *et al.* 2003). It is abundantly found in the marine catches of Bangladesh (Nowsad *et al.* 2007). A total of nine individual fish/haul was observed in a survey conducted by Tokyo Electric Power Services Co. Ltd (CPGCBL 2013) around the Sonadia Island during January 2013.

Trend: Information on the population is currently unavailable; however, it might be slightly over-fished.

Habitat and Ecology

This Ilisha inhabits fresh, brackish, marine waters and coastal waters, apparently entering estuaries. The pelagic fish mostly found in the clean water in the sandy or weedy ground along the coast and also in the lower estuary (Rashid *et al.* 2007). This fish is anadromous and ascends to rivers to spawn. Migration is cyclical, predictable and covers more than 100 km. This is an euryhaline species and can tolerate a salinity range of 5-38 ppt. This is a pelagic species in the depth range of 0-100 m.



Ilisha megaloptera

Species ID: FI0057



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	PRISTIGASTERIDAE

Scientific Name: *Ilisha megaloptera* (Swainson, 1839)

English Name: Bigeye Ilisha

Bengali Name: Chapila, Choukha

Synonym/s: *Clupanodon motius* Hamilton, 1822

Ilisha motius Hamilton, 1822

Platygaster macrophalma Swainson, 1838

Clupea megalopterus Swainson, 1839

Pellona megaloptera Swainson, 1839

Clupea parva Swainson, 1839

Pellona dussumieri Valenciennes, 1847

Ilisha dussumieri Valenciennes, 1847

Pellona russellii Bleeker, 1852

Taxonomic Notes: None



Ilisha megaloptera

© Md. Sagir Ahmed

Assessment Information

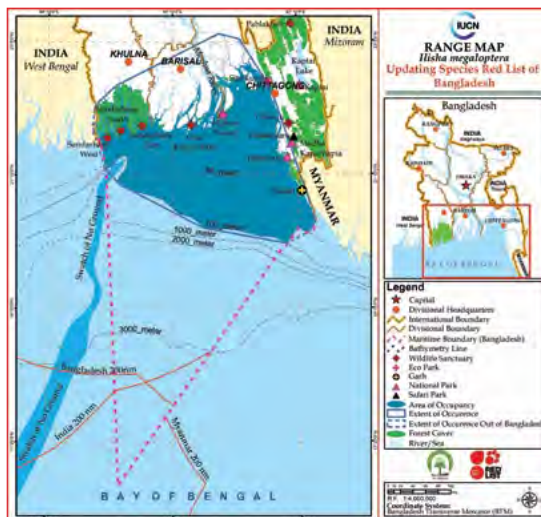
Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Ilisha megaloptera* has a wide range of distribution and occurs in marine, estuarine and tidal riverine environments of Bangladesh (Rahman and Chowdhury 2007). The fish constitutes a moderate catch in the coastal waters (Bernacsek 2001 Mostafa 2003, Hossain 2014). There is no reports on the population decline of the fish. In the absence of any major widespread threats to the species, *Ilisha megaloptera* is assessed as Least Concern.

Date Assessed: 17 September 2014

History

Regional Status: This taxon has been assessed as Not Threatened (NO) in Bangladesh (IUCN Bangladesh 2000).



Geographic Range

Global: It is reported from Indo-Pacific Region, including Indian Ocean (Bombay to Bay of Bengal and Andaman coast of Thailand), Java Sea (off Java, Singapore) Sarawak (Ramaiyan and Whitehead 1979, Whitehead 1985).

Bangladesh: This fish mainly occurs in the coastal waters and estuaries of Bangladesh, particularly it is reported from Bakkhali river estuary, Saint Martin Island, Noakhali, Sundarban, Dublar Char (Bernacsek 2001, Mostafa 2003, Hossain 2014) Meghna and Padma Rivers and their tributaries, etc. (Rahman and Chowdhury 2007).

EOO: 77,388 km²

AOO: 51,735 km²

Population

Generation Time (Length): Unknown.

Total Population: The total population of the species is unknown. However, abundant numbers were observed in Dublar Char during December, 2000 and January and November, 2001 (Bernacsek 2001). It is found fairly common in Meghna River near Chandpur (Rahman and Chowdhury 2007).

Trend: No information on the population trend of the species is available.

Habitat and Ecology

It inhabits marine, fresh and brackish waters, particularly in inshore areas, but apparently occurs also in rivers.

Pelagic-neritic preferring a depth range of 0-50 m.

I. megaloptera feeds on small fishes, crustaceans, amphipods, occasionally polychaetes, tunicates and small amounts of algae and diatoms (Rahman and Chowdhury 2007) and it is an anadromous species, ascends into the upper ends of the tidal zones.

Assessor: Mostafa Ali Reza Hossain

Pellona ditchela

Species ID: FI0059



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	PRISTIGASTERIDAE

Scientific Name: *Pellona ditchela* Valenciennes, 1847

English Name: Indian Pellona

Bengali Name: Choukkha, Ramkorati, Amkorati

Synonym/s: *Pellona ditcheli* Valenciennes, 1847

Pellona hoevenii Bleeker, 1852

Ilisha hoeveni Bleeker, 1852

Ilisha hoevenii (Bleeker, 1852)

Pellona hoeveni Bleeker, 1852

Pellona natalensis Gilchrist & Thompson, 1908

Taxonomic Notes: None



Pellona ditchela

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Pellona ditchela* occurs all along the coast of the Bay of Bengal and estuaries of Bangladesh, namely the Sundarbans, Satkhira, Alipur-Mohipur, Barisal, Chittagong, Cox's Bazar, St. Martins Island, Patuakhali, Chandpur areas. It is found abundantly in fish markets and landing centers in some coastal areas of the country (Hossain and Ahmed 2013). There is no report on its population decline. In the absence of any known widespread threat, *P. ditchela* is assessed as Least Concern.

Date Assessed: 17 September 2014

History

Regional Status: This taxon has been assessed as Not Threatened (NO) in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *P. ditchela* is native to Andaman Sea, Arabian Sea, Bay of Bengal, Great Barrier Reef Gulf of Aden, Gulf of Oman, Indian Ocean, Indonesian Sea, Lagonoy Gulf, North Australian Shelf, Northeast Australian Shelf, Northwest Australian Shelf, Pacific Ocean, Ragay Gulf, San Miguel Bay, South China Sea, Sulu-Celebes Sea, Sabaki and Tana River.

Bangladesh: The species occurs in the coastal waters and estuaries of Bangladesh, namely Sundarbans, Satkhira, Alipur-Mohipur, Barisal, Chittagong and Cox's Bazar, St. Martins Island, Patuakhali, Dogger Beel of Chandpur (Hossain and Ahmed 2013).

EOO: 71,300 km²

AOO: 6,827 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on the total population of the species is not currently available. However, it is considered as a common fish.

Trend: Unknown.

Habitat and Ecology

The fish inhabits marine fresh and brackish waters, mainly found in coastal waters, enters mangrove areas and estuaries and freshwater as well. The fish is pelagic-neritic and occurs in the depth range of 10-50 m. This euryhaline fish is a plankton feeder, mainly consuming small planktonic organisms, especially diatoms (Rahman and Chowdhury 2007).



Assessor: Mostafa Ali Reza Hossain

Acanthocobitis botia

Species ID: FI0119



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	BALITORIDAE

Scientific Name: *Acanthocobitis botia* (Hamilton, 1822)
English Name: Zipper Loach, Sand Loach, Mottled Loach
Bengali Name: Bilturi, Balichata
Synonym/s: *Cobitis botia* Hamilton, 1822
Botia nebulosa Blyth, 1861
Acanthocobitis longipinnis Peters, 1861
Nemacheilus botia Günther, 1868
Nemachilus botius Day, 1889
Noemacheilus botia Menon, 1987

Taxonomic Notes: None



Acanthocobitis botia

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Acanthocobitis botia* lives in diversified habitats, including hill streams. The populations of this species are unlikely to be adversely affected by the threats immediately for its considerable decline. Moreover, the Extent of Occurrence (1,29,141.05 km²) and Area of Occupancy (4,123.29 km²) surpass the threshold values of any threatened category, therefore, this species is assessed as Least Concern.

Date Assessed: 21 January 2015

History

Regional Status: It was considered as Data Deficient (IUCN Bangladesh 2000).

Geographic Range



Global: It is native to Bangladesh, India and Pakistan. Also reported from Bhutan, China, Myanmar, Nepal, and Thailand (Talwar and Jhingran 1991, Doi 1997, Rahman 2005).

Bangladesh: *A. botia* is found in the hill streams of Sylhet and streams of Dinajpur, Rangpur and Mymensingh (Rahman 2005). This species is reported from the upstream of Someshwari and Kongsho River of Netrokona; Piyang and Sari River of Sylhet; Kortoa, Atrai and Mahananda River of Northern region. Also recorded from the Tanguar Haor of Sunamgonj and in the high altitude of Sangu River (Rahman and Akhter 2007, Mahsin and Haque 2009, Ahmed *et al.* 2015).

EOO: 1,29,141 km²

AOO: 4,123 km²

Population

Generation Time (Length): Unknown.

Total Population: The current population and its trends are unknown. However, recent field surveys in selected locations indicate that this species is not abundant in their natural habitats (Ahmed and Rahman 2014).

Trend: Unknown.

Habitat and Ecology

It occurs in shallow, swift, clear, cool streams and rivers with sandy or gravelly bottom (Rahman 2005). It feeds on zoobenthos and insect larvae. Nocturnal in habit and it prefers to hide in sand and gravel bottoms of hill-stream environment. It protects itself by burying its body in the sand and gravel with great rapidity.

Assessor: Md. Mizanur Rahman

Acanthocobitis zonalternans

Species ID: FI0120

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	BALITORIDAE

Scientific Name: *Acanthocobitis zonalternans* (Hamilton, 1822)

English Name: River Loach, Creek Loach

Bengali Name: Puiya, Balichata

Synonym/s: *Cobitis zonalternans* Blyth, 1860

Nemachilus zonalternans Day, 1878

Noemacheilus zonalternans Menon, 1987

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Acanthocobitis zonalternans* is widely distributed and a common loach. As this is a hardy species and lives in diversified habitats in hill streams, the populations of this species are not likely to be adversely affected by the possible threats immediately. Moreover, the Extent of Occurrence (1,17,580.52 km²) and Area of Occupancy (5,243.31 km²) surpass the threshold values of any threatened category, therefore, this species is assessed as Least Concern.

Date Assessed: 21 January 2015

History

Regional Status: The taxon was assessed as Data Deficient (IUCN Bangladesh 2000).



Acanthocobitis zonalternans

© Md. Mizanur Rahman

Geographic Range

Global: Its global range includes Bangladesh, India and Myanmar (Talwar and Jhingran 1991, Doi 1997, Rahman and Ruma 2007).

Bangladesh: The Dahuki River in Sylhet is an ideal habitat for the species (Rahman and Ruma 2007). This species is reported from the upstreams of Someshwari and Kongsho River of Netrokona; the Piyang and Sari River of Sylhet; Mohuri Project area of the Feni River; the Kortoa, Atrai and Mahananda River of Northern region; and the river Brahmaputra-Jamuna. Also recorded from the Tanguar Haor of Sunamgonj and in the high altitude of the Sangu River (Haroon *et al.* 1989, Rahman and Akhter 2007, Ahmed *et al.* 2015).

EOO: 1,17,581 km²

AOO: 5,243 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It occurs in shallow and clear water of rivers and streams with a pebbly bottom. Found in a variety of streams from river main streams to small brooks. It prefers shallow riffles in the upstream over small pebbles. It feeds on zoobenthos and insect larvae. Nocturnal in habit it prefers to hide in sand and gravel bottoms of hill-stream environment (Rahman and Ruma 2007).

Assessor: Md. Mizanur Rahman



Lepidocephalichthys berdmorei

Species ID: FI0131



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE

Scientific Name: *Lepidocephalichthys berdmorei* (Blyth, 1861)

English Name: Burmese Loach

Bengali Name: Gutum, Puiya

Synonym/s: *Acanthopsis berdmorei* Blyth, 1860

Lepidocephalus berdmorei Blyth, 1861

Cobitis berdmorei Day, 1869

Lepidocephalichthys berdmorei Day, 1878

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Lepidocephalichthys berdmorei* has very wide distribution in the country. Moreover, the Extent of Occurrence (66,226.57 km²) and Area of Occupancy (4,766.31 km²) are much higher than the threshold values of threatened category. Therefore, *Lepidocephalichthys berdmorei* assessed as Least Concern.

Date Assessed: 15 January 2015

History

Regional Status: It was considered as Data Deficient (IUCN Bangladesh 2000).

Geographic Range

Global: Bangladesh, China India, Myanmar and Thailand (Tapwar and Jhingran 1991, Rahman 2005).



Lepidocephalichthys berdmorei

© Md. Mizanur Rahman

Bangladesh: *Lepidocephalichthys berdmorei* had a limited distribution in the clear swift water hill-streams of Sylhet region in Bangladesh and was fairly common in Dahuki River and other hilly rivers of Sylhet during the mid-1970s (Rahman 2005). Also reported from the Mahananda River of the northern region of the country. Recently, it was also recorded from Chalan Beel, the Tangon River of Thakurgaon, the Brahmaputra-Jamuna, the Kortoa, Atrai and the Tista river of Northern regions (Rahman *et al.* 2007, Kostori 2011).

EOO: 66,227 km²

AOO: 4,766 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It inhabits hill streams with moderate current and pebble to stone bottom. Also found in clear, swift streams and lakes with sandy bottoms (Rahman 2005). It burrows quickly in the sand and gravels when frightened. Like a micro predator it feeds on insect larvae.



Assessor: Md. Mizanur Rahman

Lepidocephalichthys guntea

Species ID: FI0133



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE

Scientific Name: *Lepidocephalichthys guntea* (Hamilton, 1822)

English Name: Peppered Loach, Guntea Loach

Bengali Name: Gutum, Puiya

Synonym/s: *Cobitis guntea* Hamilton, 1822

Cobitis balgara Hamilton, 1822

Lepidocephalichthys guntea Day, 1878

Lepidocephalus guntea birmanicus Banarescu and Nalbant, 1968

Lepidocephalus (*Lepidocephalichthys*) *guntea* Tilak and Hussain, 1981

Taxonomic Notes: *Cobitis guntea* was described only from Ganges River by Hamilton (1822). Later it was placed under the genus *Lepidocephalus*. There was confusion over its generic placement as *Lepidocephalus* or *Lepidocephalichthys*. The correct placement of the species is under *Lepidocephalichthys* (Havird and Page 2010).

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Lepidocephalichthys guntea* is fairly common species in its all habitat ranges across the country. It is the most abundant species among the other species of the genus *Lepidocephalichthys*. The estimated Extent of Occurrence (1,86,252.67 km²) and Area of Occupancy (7,394.64 km²) are much higher than the upper threshold values for any IUCN threatened category and almost stable abundance of this species indicate that it is unlikely to decline in near the future. Therefore, *L. guntea* is assessed as Least Concern.



Lepidocephalichthys guntea

© Md. Mizanur Rahman

Date Assessed: 15 January 2015

History

Regional Status: It was considered as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: Its distribution range is restricted to Bangladesh, India, Myanmar, Nepal, Pakistan and Thailand (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It is available in swamps, streams, floodplains and beels throughout Bangladesh. Commonly occurs in the streams of Mymensingh, Sylhet, Dinajpur and Rangpur (Rahman 2005, Rahman and Akhter 2007, Rahman *et al.* 2007, Kostori *et al.* 2011).

EOO: 1,86,253 km²

AOO: 7,395 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It occurs in free flowing streams or even clear standing waters like rivers, streams, canals and inundated floodplain areas. It is a potamodromous species. This fish feeds on insect larvae and bottom detritus (Kibria 2007).



Assessor: Md Mizanur Rahman

Pangio pangia

Species ID: FI0137

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE

Scientific Name: *Pangio pangia* (Hamilton, 1822)

English Name: Pangia Coolie-loach, Cinnamon Loach

Bengali Name: Pangya, Panga

Synonym/s: *Cobitis pangia* Hamilton, 1822

Cobitis cinnamomea McClelland, 1839

Apua fusca Blyth, 1861

Acanthopthalmus pangia Day, 1878

Taxonomic Notes: None



Pangio pangia

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Pangio pangia* has a wide range of distribution though its abundance is low in its all habitats. The Area of Occupancy is 2,299.64 km² that is slightly higher than that of Vulnerable Category but its Extent of Occurrence of 76,682.89 km² indicates its extended availability in the country. There is no identified potential threat by which this species may cause decline in numbers or risk of extinction in future. Therefore, this species has been assessed as Least Concern.

Date Assessed: 15 January, 2015

History

Regional Status: It was listed as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India and Myanmar (Rahman 1989, Talwar and Jhingran, 1991).

Bangladesh: This species is reported from the Jabuneswari River in Rangpur, Matshaya Rani Fish Sanctuary in Mymensingh, the Sunamganj Haor R, hill streams of Rangamati, Madhabpkundo Water Fall of Moulvibazar and upstream of Sangu Rivers of Bandarban District (Hasan *et al.* 2012, Naser *et al.* 2013, Ahmed *et al.* 2015).

EOO: 76,683 km²

AOO: 2,300 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It occurs in clear streams with bushy vegetation, sand and gravels at the bottom. It feeds on bottom organisms and detritus. It buries itself rapidly in sand when gets frightened.



Assessor: Md Mizanur Rahman

Amblypharyngodon microlepis

Species ID: FI0014

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Amblypharyngodon microlepis* (Bleeker 1853)

English Name: Indian Carplet, Carplet

Bengali Name: Mola, Moilla

Synonym/s: *Leuciscus pellucidus* McClelland, 1839

Leuciscus microlepis Bleeker, 1853

Amblypharyngodon microlepis Day, 1878

Taxonomic Notes: *A. microlepis* is often misidentified as *A. mola*.



Amblypharyngodon microlepis

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Amblypharyngodon microlepis* is widely distributed in the country, living mostly in ponds, canals, ditches, slow moving streams, rivers and paddy fields. There is apparently no major known threat for its population decline. So, the species is considered as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: The species was assessed as Not Threatened earlier (IUCN Bangladesh 2000).

Geographic Range

Global: Its distribution range includes Bangladesh and India (Talwer and Jhingran 1991, Rahman 2005).

Bangladesh: It occurs in the River Padma and its distributaries, Mahananda River, Chalan Beel, freshwater ponds, canals and ditches throughout Bangladesh (Hossain and Haque 2005, Rahman 2005, Kostori *et al.* 2011, Rahman *et al.* 2011, Rahman *et al.* 2012).

EOO: 1,77,080 km²

AOO: 2,206 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Due to over exploitation and habitat destruction its population is decreasing.

Habitat and Ecology

It is found in freshwater ponds, rivers, ditches, roadside pits, and slow moving stream (Rahman 2005). This benthopelagic species, feeds on algae, worms, crustaceans, insects, insects larvae and organic debris.



Assessor: M. Kamrujaman

Amblypharyngodon mola

Species ID: FI0015

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Amblypharyngodon mola* (Hamilton, 1822)

English Name: Mola Carplet, Pale Carplet

Bengali Name: Mola, Molongi, Moya, Moilla

Synonym/s: *Cyprinus mola* Hamilton, 1822

Amblypharyngodon mola Day, 1878

Amblypharyngodon pellucidus (McClelland, 1839)

Leuciscus pellucidus McClelland, 1839

Mola buchanani Blyth, 1860

Amblypharyngodon saranensis Chaudhuri, 1912

Amblypharyngodon gadigarhi Malhotra & Singh
Dutta, 1975

Taxonomic Notes: None



Amblypharyngodon mola

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Amblypharyngodon mola* is fairly common all over Bangladesh and inhabits a wide range of freshwater habitats. (*i.e.* ponds, lakes and rivers). In the absence of any known threat, the species is considered as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: The species was assessed as Not Threatened earlier in the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: Its range extends from Afghanistan, Bangladesh,

India, Myanma and Nepal to Pakistan (Talwer and Jhingran 1991, Rahman 2005).

Bangladesh: It is widely distributed in the major river systems of the country, including the hill rivers, man-made Kaptai Lake, ponds, ditches, canals and all other freshwater wetlands. (Ahmed and Hasan 1981, Haroon *et al.* 1989, Halder *et al.* 1991, Rahman 2005, Rahman and Akhter 2005, Azadi and Arshad-ul-Alam 2014).

EOO: 1,89,369 km²

AOO: 5,258 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It lives in freshwater ponds, rivers, ditches, roadside pits, and slow moving streams (Rahman 2005). This benthopelagic species, feeds on algae, worms, crustaceans, insects, insect larvae and organic debris. It breeds thrice in a year (Azadi and Mamun 2004).



Assessor: Mohammad Ali Azadi

Esomus danricus

Species ID: FI0025



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Esomus danricus* (Hamilton, 1822)
English Name: Flying Barb
Bengali Name: Darkina, Darkinda, Danrika, Darka, Dadhika, Dankan, Dakkan, Chukkuni, Bore chela.
Synonym/s: *Cyprinus danrica* Hamilton, 1822
Nuria danrica Day, 1878
Esomus danricus Shaw & Shebbeare, 1937
Taxonomic Notes: None



Esomus danricus

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Esomus danricus* is found in small streams, ditches, ponds, beels and inundated fields throughout the country as well as freshwater rivers and river mouths, although prefers quitter waters. There is no major reported threat is that can reduce its population to a level of any threatened category in near future. So, *E. danricus* is assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: It has been assessed as Data Deficient (DD) (IUCN Bangladesh 2000).

Geographic Range

Global: It lives in Afghanistan, Bangladesh, India, Nepal, Myanmar, Pakistan and Sri Lanka (Rahman 1989,

Pethiyagoda 1991, Talwer and Jhingran 1991, Shaji and Gopalakrishnan 2000).

Bangladesh: The species is fairly common in streams, canals, ponds and inundated fields throughout Bangladesh (Rahman 1989).

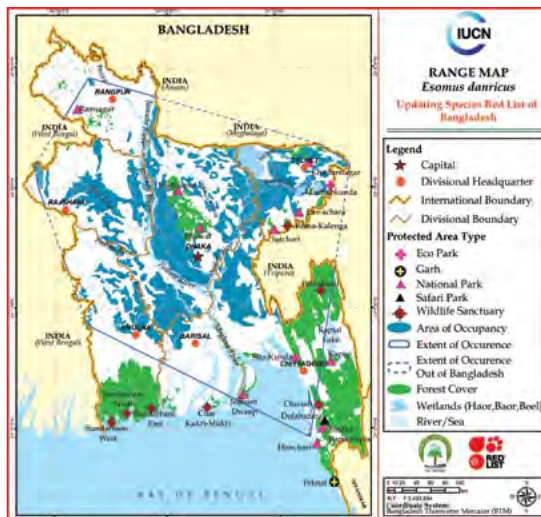
EOO: 1,41,119 km²
AOO: 36,507 km²

Population

Generation Time (Length): Unknown.
Total Population: Unknown.
Trend: Declining.

Habitat and Ecology

It occurs in freshwater and brackish water. It is benthopelagic and potamodromous in habit. It can control insect population and algal bloom from the surface layer of the aquatic environment. By eating aquatic detritus it keeps the water clean (Rahman and Chowdhury 2007).



Assessor: Md. Golam Mustafa
Associate Assessor/s: Balaram Mahalder and Mohammad Ilyas

Rasbora daniconius

Species ID: FI0027



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Rasbora daniconius* (Hamilton, 1822)

English Name: Blackline Rasbora, Common Rasbora, Slender Rasbora Slender Barb, Striped Rasbora

Bengali Name: Darkina, Darkinda, Dankina Chela, Bore Chela, Pati Chela

Synonym/s: *Cyprinus daniconius* Hamilton, 1822
Leuciscus lateralis McClelland, 1839
Leuciscus dandia Valenciennes, 1844
Leuciscus dandria Valenciennes, 1844
Leuciscus malabaricus Jerdon, 1849
Rasbora malabarica Jerdon, 1849
Rasbora neilgherriensis Day, 1867
Rasbora woolaree Day, 1867
Rasbora zanzibarensis Günther, 1867

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Rasbora daniconius* is found all over Bangladesh in all kinds of freshwater bodies. Although, the fish shows a declining trend in abundance in the country, however, still it is relatively abundant throughout its local habitat ranges and the fish can survive in shallow water bodies. Considering the above and in the absence of any major widespread threat, the species is assessed as Least Concern.

Date Assessed: 25 June 2014



Rasbora daniconius

© Md. Mizanur Rahman

History

Regional Status: The species has not been assessed earlier in Bangladesh.

Geographic Range

Global: Its range countries include Bangladesh, India, Malaysia, Myanmar, Nepal, Pakistan, South China, Thailand and Viet Nam (Rahman and Chowdhury 2007).

Bangladesh: *Rasbora daniconius* occurs throughout Bangladesh and occupies almost all kinds of water bodies (Rahman 2005).

EEO: 2,17,468 km²

AOO: 11,964 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is unknown, but it is relatively abundant in Bangladesh (Rahman and Chowdhury 2007).

Trend: Declining.

Habitat and Ecology

The species inhabits fresh and brackish water ecosystems, including ditches, ponds, canals, haors, streams, rivers and floodplains. It is a bethopelagic fish and usually feeds on aquatic insects and detritus. Spawning sites of the species are found in rivers and ponds. Sometimes, the fish forms large school.

Assessor: Md. Golam Mustafa

Associate Assessor/s: Balaram Mahalder and Mohammad Ilyas



Salmophasia bacaila

Species ID: FI0030



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Salmophasia bacaila* (Hamilton, 1822)
English Name: Large Razorbelly Minnow
Bengali Name: Chela, Narkali chela, Katari, Narkoli chela
Synonym/s: *Chela bacaila* Hamilton, 1822
Cyprinus bacaila Hamilton, 1822
Leuciscus bacaila Hamilton, 1822
Opsarius bacaila Hamilton, 1822
Oxygaster bacaila Hamilton, 1822
Salmostoma bacaila Hamilton, 1822
Opsarius leucerus McClelland, 1839
Cyprinus oblonga Swainson, 1839
Salmophasia oblonga Swainson, 1839

Taxonomic Notes: None



Salmostoma bacaila

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Salmophasia bacaila* occurs abundantly throughout Bangladesh and inhabits most freshwater bodies (Rahman and Chowdhury 2007, Mustafa and Graaf 2011). The prevailing threats to the fish are in general and in the absence of any reliable information on the population trend *S. bacaila* is considered as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: The species has been considered as Not Threatened (NO) in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: The species is known to occur in Afghanistan, Bangladesh, India, Pakistan, and Nepal (Rahman and Chowdhury 2007).

Bangladesh: The species occurs throughout the country (Rahman and Chowdhury 2007). Fish catch monitoring in 30 sites in the haor basin during the year 2009-2011 showed that the species was present in 70-90% of the surveyed sites. However, it is more abundant in the northern parts of the country (Mustafa and Graaf 2008).

EOO: 2,17,468 km²

AOO: 11,964 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is unknown, but fish catches from Sunderbans comprised about 0.11% of the sampled catches (IRG-Worldfish 2011).

Trend: Population of the fish was noted to be declining in Bangladesh (Rahman and Chowdhury 2007). However, no reliable empirical data on this are available.

Habitat and Ecology

The fish inhabits lotic and lentic waters of both fresh and brackish water habitats and is usually found in slow running water bodies (Rahman and Chowdhury 2007). It is a surface feeder and consumes mainly aquatic insects and detritus. It has the habit of jumping above the water surface and usually moves in small groups.

Assessor: Mohammad Golam Mustafa

Associate Assessor/s: Balaram Mahalder and Mohammad Ilyas



Chela laubuca

Species ID: FI0032



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Chela laubuca* (Hamilton, 1822)

English Name: Indian Glass Barb

Bengali Name: Kash Khaira, Chhep Chela, Laubuca

Synonym/s: *Cyprinus laubuca* Hamilton, 1822

Perilampus laubuca Day, 1878

Laubuca laubuca Shaw and Shebbeare, 1937

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Chela laubuca* is fairly common throughout Bangladesh and found in a wide range of habitats including rivers, canals, ditches, floodplains and ponds. Although the species experiences a population decline, however, the Extent of Occurrence (217467.88 km²) and Area of Occupancy (11964.42 km²) are far above the upper threshold limits for any threatened category. The prevailing threats are rather in general. In the absence of any reliable information on the population decline and its population size, the species is currently assessed as Least Concern (LC).

Date Assessed: 25 Jun 2014

History

Regional Status: The species has been assessed as Endangered earlier in Bangladesh (IUCN Bangladesh 2000).



Chela laubuca

© Md. Mizanur Rahman

Geographic Range

Global: The taxon is known to occur in Bangladesh, Chao Phraya basins, India, Indochina (Mekong), Indonesia, Malay Peninsula, Myanmar, Nepal, Pakistan, and Sri Lanka. (Rahman and Chowdhury 2007).

Bangladesh: The species is widely distributed in Bangladesh (Rahman, 2005) and reported from Muhuri Irrigation Project and its surrounding areas (Haroon *et al.* 1989), River Brahmaputra-Jamuna (Rahman and Akhter 2007), Feni River (Halder *et al.* 1991) and Halda River (Azadi and Arshad-ul-Alam 2013).

EOO: 2,17,468 km²

AOO: 11,964 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on total population of the fish is unknown, but the fish is fairly common all over Bangladesh (Rahman 2005).

Trend: The species shows a declining trend in Bangladesh (Rahman and Chowdhury 2007).

Habitat and Ecology

The species occurs in fresh and brackish water habitats, and found in stagnant pools of streams, rivers, canals, floodplains, ponds and beels. The fish is pelagic in nature in the depth range 0-2 m, found usually in middle-depth area of streams, ponds and tanks. They prefer still and relatively low-flowing waters. It feeds mainly on insects, but also takes plants. This species breeds freely in ponds, tanks and small streams. It moves in small groups of 15-30 individuals.

Assessor: Syeda Ismat Ara

Associate Assessor: Mohammad Ali Azadi



Aspidoparia jaya

Species ID: FI0039

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Aspidoparia jaya* (Hamilton, 1822)

English Name: Jaya

Bengali Name: Jaya, Peali, Peashi

Synonym/s: *Cyprinus jaya* Hamilton, 1822

Leuciscus jaya Hamilton, 1822

Leuciscus margarodes McClelland, 1839

Leuciscus margarodis McClelland, 1839

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: Although, *Aspidoparia jaya* is relatively rare and shows a declining trend, however, it is found in a wide areas of the country and adapted to thrive in a variety of water bodies including rivers, streams, ponds, floodplains (Rahman and Ruma 2007). The estimated Extent of Occurrence (66,154 km²) and Area of Occupancy (2,617.49 km²) are also higher than the upper threshold values for the Vulnerable Category. Prevailing threats are general and in the absence of adequate population data the species is currently assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: The taxon has been considered Not Threatened (NO) in Bangladesh (IUCN Bangladesh 2000).



Aspidoparia jaya

© Md. Mizanur Rahman

Geographic Range

Global: The fish is known to occur in Afghanistan, Bangladesh India and Nepal (Talwar and Jhingran 1991).

Bangladesh: This fish is found in the rivers of the northern parts of Bangladesh, and particularly it was reported from the Jamuna River, near Bhuapur and the old Brahmaputra River, near Mymensingh (Rahman and Chowdhury 2007) and Kuttanadi River in Panchagar (Rahman 2005). The fish has also been reported from Rivers Padma and its tributaries in the Greater Faridpur District (Rahman *et al.* 2012, Mohsin *et al.* 2013).

EOO: 66,154 km²

AOO: 2,617 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the fish is unknown, but it is relatively rare within its habitat ranges (Rahman and Ruma 2007).

Trend: Unknown.

Habitat and Ecology

The fish inhabits freshwater bodies, including rivers, ponds, plains, and also streams in mountainous regions (Rahman and Ruma 2007). It is benthopelagic in nature and feeds on micro-crustacean, insects and detritus.

Assessor: Balaram Mahalder

Associate Assessor/s: Md. Golam Mustafa.



Barilius shacra

Species ID: FI0042



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Barilius shacra* (Hamilton, 1822)

English Name: Shacra Baril

Bengali Name: Koksa, Saku Koksha

Synonym/s: *Barilius shacra* Hamilton, 1822

Cyprinus shacra Hamilton, 1822

Barbus shacra Hamilton, 1822

Opsarius shacra Hamilton, 1822

Opsarius cirratus McClelland, 1839

Opsarius cirrhatus McClelland, 1839

Schacra cirrhatus McClelland, 1839

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Barilius shacra* is fairly common in the rivers and streams of Thakurgaon, Dinajpur and Rangur and also found in the Brahmaputra and Jamuna drainages (Latifa 2007). Although, some widespread threats are affecting its population abundance, however, the Extent of Occurrence and Area of Occupancy of the species are higher than the upper thresholds of any IUCN Redlist threatened category. Currently, no reliable information on population trend of the species is available. Therefore, it is assessed as Least Concern until further data are available.

Date Assessed: 25 June 2014

History

Regional Status: This species has been considered as



Barilius shacra

© Md. Mizanur Rahman

Data Deficient (DD) earlier in IUCN Bangladesh 2000.

Geographic Range

Global: The species is distributed in Bangladesh, India, and Nepal (Latifa 2007).

Bangladesh: It occurs in the rivers and streams of Thakurgaon, Dinajpur and Rangpur and also found in the Brahmaputra and Jamuna drainages. (Latifa 2007, Rahman 2005)

EOO: 45,491 km²

AOO: 1,372 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is unknown. However, the fish is fairly common within its habitat ranges in the northern parts of the country (Latifa 2007).

Trend: The population abundance of the species has been stated to be reduced (Latifa 2007).

Habitat and Ecology

The species inhabits freshwater and found in rivers and streams with diverse substrate consisting of sand, mud, gravel, pebble, cobble, and boulders. The fish is benthopelagic in habit and feeds on algae, detritus and other benthic organisms.

Assessor: Balaram Mahalder

Associate Assessor/s: Md Golam Mustafa.



Catla catla

Species ID: FI0070



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Catla catla* (Hamilton, 1822)

English Name: Catla

Bengali Name: Catla, Katol

Synonym/s: *Cyprinus catla* Hamilton, 1822

Gebelion catla Hamilton, 1822

Cyprinus abraminoides Sykes, 1841

Catla buchanani Day, 1878

Catla catla Jhingran, 1966

Taxonomic notes: *Catla catla* has been described as *Gebelion catla* in Species Redlist of IUCN. Its accepted name is *Catla catla*.



Catla catla

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Catla catla* is widely distributed in all ranges of freshwater habitats of Bangladesh, although its abundance is observed to be low. In spite of its continued decline in the past and existing threats, the reduction in population abundance appears less than 20% during the last 6-7 years (Ahmed *et al.* 2015). Captive breeding of the species is widely practiced and the fish is cultured extensively almost in all parts of the country. The species has also been introduced in floodplain culture fisheries. The estimated Area of Occupancy (1,11,856.76 km²) and Extent of Occurrence (2,17,467.88 km²) are far above the threshold values for any IUCN threatened category. Hence, the species is assessed as Least Concern.

Date Assessed: 15 February 2015

History

Regional Status: *Catla catla* has been assessed as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: The species is native to Bangladesh, India (Central and northern parts), Pakistan, Myanmar and Nepal. The species has been introduced in peninsular India, Sri Lanka and China (Talwar and Jhingran 1991, Rahman and Chowdhury 2007, Tenzin 2010).

Bangladesh: The species occurs throughout the country except the estuaries (Rahman 2005, Rahman and Chowdhury 2007) and has been reported from almost all parts of the country, including major river systems and other water bodies (NACOM 2008, Bashar *et al.* 2009, Chakraborty and Nur 2009, Azadi and Arshad-Ul-Alam 2013, Flowra *et al.* 2013, Galib *et al.* 2013).

EOO: 2,17,468 km²

AOO: 1,11,857 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on the total population is not currently available. However, it is relatively fairly common (Rahman and Chowdhury 2007)

Trend: The species shows a declining population trend (Ahmed *et al.* 2015).

Habitat and Ecology

Catla catla inhabits freshwaters and found in rivers, lakes, haors, baors and culture ponds and also in seasonal floodplains (pers. obs.). It is surface and mid-water dweller and omnivorous fish in habit, with juveniles feeding on insects, detritus and phytoplankton. Main food consists of algae, crustaceans and higher plants. It breeds in selected parts of certain rivers in June-July (Rahman and Chowdhury 2007).

Assessor: Md Abdur Rob Mollah



Devario devario

Species ID: FI0079



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Devario devario* (Hamilton, 1822).

English Name: Sind Danio

Bengali Name: Chebli, Debashi, Chapchela, Debari

Synonym/s: *Cyprinus devario* Hamilton, 1822

Devario buchanani Bleeker, 1860

Danio devario Day, 1878

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Devario devario* is abundantly found throughout Bangladesh and occupies wide range of habitats. Although, empirical data are not available on its population trend, however, population of the species probably shows a declining trend (Ahmed 2007, Ahmed *et al.* 2015). In spite of some existing threats, it is apparent that the fish is unlikely to face the risk of extinction in near future. Hence, this species is assessed as Least Concern.

Date Assessed: 17 July 2014

History

Regional Status: This species has been considered as Not Threatened (NO) earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: This species is known from plains and adjoining hilly areas of Bangladesh, India, Nepal and Pakistan (Talwar



Devario devario

© Md. Sagir Ahmed

and Jhingran 1991). Recently, the species has been reported from Afghanistan (Petra 1999).

Bangladesh: The species is widely distributed throughout Bangladesh (Rahman 2005). This species is also reported from the Sangu River of Bandarban, the Someshwari and Kongsha Rivers of Netrokona, the Piyang and Sari Rivers of Sylhet (Ahmed 2007, Galib *et al.* 2009, Ahmed *et al.* 2015).

EOO: 2,17,468 km²

AOO: 11,857 km²

Population

Generation Time (Length): Unknown.

Total Population: The total population is unknown.

However, currently it is relatively less abundant (Ahmed 2007).

Trend: The fish has been probably experiencing a population decline due to siltation and drying up of river beds (Ahmed 2007, Ahmed *et al.* 2015).

Habitat and Ecology

D. devario is benthopelagic in habit and feeds on worms, small crustaceans and insects and hovers near the surface of water (Mills and Vevers 1989). The species inhabits freshwaters and is found in rivers, canals, ponds, beels and inundated fields throughout Bangladesh (Rahman 2005).



Assessor: Md. Mizanur Rahman

Labeo angra

Species ID: FI0083



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Labeo angra* (Hamilton, 1822)

English Name: Angra Labeo

Bengali Name: Kharsa, Angrot, Kharish

Synonym/s: *Cyprinus angra* Hamilton, 1822

Labeo morala Hamilton, 1822

Cyprinus hamiltonii Gray, 1830

Gobio angra Hamilton, 1822

Taxonomic Notes: None



Labeo angra

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Labeo angra* is fairly abundant in the northern parts of the country and occupies a number of habitat types. Although, some threats are affecting the population, the species is still thriving well and there is no report on its noticeable population decline. It is inferred that under the prevailing situation the species is unlikely to face the risk of extinction in near future. Hence, the species is assessed as Least Concern.

Date Assessed: 21 August 2014

History

Regional Status: It has been considered Not Threatened earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *L. angra* is reported from northern Bangladesh and India Myanmar, Nepal (in Kosi and Karnali rivers to an

altitude of 1,650 m), and Pakistan (Devi and Boguskaya 2009). It is also reported from Afghanistan (Rahman and Ruma 2007).

Bangladesh: The fish occurs in the streams and rivers of Dinajpur, Mymensingh, Rangpur and Sylhet Districts and also in some other districts (Rahman 2005). In particular, the fish was recorded from Kangsha River, Somshwari River, Padma River, etc. (Ahmed *et al.* 2015).

EOO: 45,123 km²

AOO: 6,324 km²

Population

Generation Time (Length): Unknown.

Total Population: At present no empirical data on total population are available. However, it is stated to be abundant within its distribution ranges in the country (Rahman 2005).

Trend: There are no reports on its noticeable population decline.

Habitat and Ecology

The fish inhabits freshwaters and occurs in rivers, lakes and ponds. It is a benthic-pelagic, potamodromous species. It is a column feeder and mainly consumes insect larvae, shrimps and other crustaceans, worms and snails as well as some plant matters (Rahman and Ruma 2007).

Assessor: M. Niamul Naser

Associate Assessor/s: Gawsia Wahidunnessa Chowdhury



Labeo bata

Species ID: FI0085



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Labeo bata* (Hamilton, 1822)

English Name: Bata Labeo

Bengali Name: Bata, Bhangon Bata

Synonym/s: *Cyprinus acra* Hamilton, 1822

Cyprinus bata Hamilton, 1822

Labeo lissorhynchus McClelland, 1839

Crossocheilus bata Day 1869

Labeo bata Day, 1878

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least concern (LC) ver 3.1

Justification: *Labeo bata* is widely distributed throughout the country. In spite of some existing threats to the fish, there is no reports on its population decline. This fish is commercially cultured and no risk is anticipated in near future. Hence, the species is currently assessed Least Concern.

Date Assessed: 24 August 2014

History

Regional Status: It has been assessed Endangered earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *L. bata* is known from India and Bangladesh and is also reported from Pakistan and has been introduced in



Labeo bata

© Md. Mizanur Rahman

Nepal (Robins *et al.* 1991, Rahman and Ruma 2007).

Bangladesh: The fish is widely distributed in all freshwater ecosystems throughout Bangladesh (Rahman 2005, Chakraborty and Nur 2009, Glib *et al.* 2013, Hossain *et al.* 2009, Rahman *et al.* 2011, Mahalder and Mustafa 2013). This fish is cultured in many places of the country.

EOO: 46,089 km²
AOO: 4,839 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Currently, there is no reports on its population trend.

Habitat and Ecology

This fish inhabits freshwaters and found in ponds, beels and rivers (Rema and Ali 2013). It is a potamodromous and herbivorous column feeder. It breeds in rivers during monsoon.



Assessor: M. Niamul Naser

Associate Assessor/s: Gawsia Wahidunessa Chowdhury

Labeo calbasu

Species ID: FI0088

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Labeo calbasu* (Hamilton, 1822)

English Name: Orangefin Labeo, Black Rohu

Bengali Name: Kalibaos, Baus

Synonym/s: *Catla calbasu* Hamilton, 1822

Cyprinus calbasu Hamilton, 1822

Rohita calbasu Hamilton, 1822

Labeo calbasu Day, 1878

Taxonomic Notes: None



Labeo calbasu

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Labeo calbasu* is widely distributed in the country and found in a wide range of water bodies. It is apparent that its natural population has declined due to habitat destruction and indiscriminate catch within its entire ranges and its production dropped by about 20% during the period 2001 to 2009 in beel fishery (FRSS 2009). However, since 2010 its production from open waters is slightly increasing, might be due to the recruitment of escaped individuals from culture ponds during flooding. The fish is extensively used in stocking culture ponds. The threats to the species are in general. As a wide spread species and with no specific known threats, the species is assessed as Least Concern.

Date Assessed: 20 November 2014

History

Regional Status: This species has been considered

Endangered earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Labeo calbasu* occurs throughout India, Bangladesh, Nepal, Myanmar, Pakistan, Thailand and Yunnan (southern China) (Talwar and Jhingran 1991).

Bangladesh: It is found in haor, baor, beels and rivers throughout the country (Rahman 2005).

EOO: 2,17,468 km²

AOO: 47,216 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Although, the species experiences a population decline in the past in the country, since 2011, its production from inland open water has substituted the loss.

Habitat and Ecology

This fish inhabits freshwaters and is a bottom dweller. It feeds on organic matters, molluscs, other sediment fauna, diatoms, green algae, zooplankton, etc. (Ahmed and Niazi 1988, Rahman and Ruma 2007). Juveniles prefers zooplanktonic organisms. The adults of the species prefer slow-moving waters of rivers. It is a potamodromous species.



Assessor: Md. Sagir Ahmed

Labeo rohita

Species ID: FI0095

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Labeo rohita* (Hamilton, 1822)

English Name: Ruhi

Bengali Name: Rui, Rohit, Ruee

Synonym/s: *Cyprinus rohita* Hamilton, 1822

Rohita buchanani Valencienns, 1842

Labeo dussumeri Valencienns 1842

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Labeo rohita* is widely distributed in the country. Although, the natural populations shows declining trend, however, it is still available in good numbers throughout its habitat ranges. The fish is extensively cultured in the country and is used in floodplain programmes. The threats to the fish are in general. Hence, the fish is assessed as Least Concern.

Date Assessed: 25 November 2014

History

Regional Status: *Labeo rohita* has been considered Not Threatened earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Labeo rohita* is known to occur in Bangladesh, India, Myanmar, Nepal and Pakistan (Talwar and Jhingran 1991).



Labeo rohita

© Md. Mizanur Rahman

Bangladesh: It is found in major freshwater rivers, and other types of wetlands (*Beels* and clear sluggish water pools) throughout Bangladesh.

EOO: 2,17,468 km²

AOO: 11,857 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown. However, the fish is abundant in its entire habitat ranges.

Trend: Natural population is declining.

Habitat and Ecology

The fish occurs in freshwater water bodies including rivers, beels, reservoirs, pond and inundated lands. It may also be found in low range brackish water habitat. Freshwater rivers and large wetlands (*Beels*, *Haors* and *Baors*). It is a diurnal species and usually solitary (Riede 2004). It is a column feeder at mid-water and prefers to feed on plant matters including decaying vegetation. Its food may also contain algae, higher plants, protozoans, insects, their larvae crustaceans, mud and sand (Mukerjee *et al.* 1946). Spawning season generally coincides with the southwest monsoon.



Assessor: M. Niamul Naser

Puntius chola

Species ID: FI0098



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Puntius chola* (Hamilton, 1822)
English Name: Chola Barb, Green Barb, Swamp Barb
Bengali Name: Chola Punt
Synonym/s: *Capoeta chola* Hamilton, 1822
Barbus titius Hamilton, 1822
Cyprinus chola Hamilton, 1822
Barbus unimaculatus (Blyth, 1860)
Barbus chola Day, 1878
Barbus chola (Hamilton, 1822)
Barbus tetrapagrus (McClelland, 1839)

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Puntius chola* is widely distributed in inland waters of Bangladesh and relatively common within its habitat ranges. In the absence of any known major threat, the fish is assessed as Least Concern.

Date Assessed: 20 August 2014

History

Regional Status: *Puntius chola* has been assessed as Not Threatened earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Puntius chola* is reported from Bangladesh, Bhutan, India, Myanmar, Nepal, Pakistan and Sri Lanka (Peter 1999, Goswami *et al.* 2012).



Puntius chola

© IUCN/ Mohammed Noman

Bangladesh: It is found in rivers, canals, beels, ponds and inundated fields throughout Bangladesh (Rahman 2005, Kibria 2007).

EEO: 2,17,468 km²
AOO: 11,128 km²

Population

Generation Time (Length): Unknown.

Total Population: No information on the total population is available. However, it is relatively common within its habitat ranges (Rahman 2005, Kibria 2007).

Trend: Unknown.

Habitat and Ecology

Puntius chola inhabits freshwaters and found in rivers, canals, beels, inundated fields, ditches and ponds (Kibria 2007). It is benthopelagic fish and is omnivorous in habit, feeds on wide variety of food items, like worms, crustaceans, insects and plant matter (Ansari *et al.* 2006). It exhibits prolific breeding with high growth rate but minimum population (Talwar and Jhingran 1991). It is a shallow water fish.



Assessor: Md. Enamul Hoq

Pethia conchonius

Species ID: FI0099



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Pethia conchonius* (Hamilton, 1822)
English Name: Red Barb, Rosy Barb
Bengali Name: Kanchan Puntí, Taka Puntí
Synonym/s: *Barbus conchonius* Hamilton, 1822
Cyprinus conchonius Hamilton, 1822
Systemus chola Hamilton, 1822
Puntius conchonius Hamilton 1822
Pethia conchonius Pethiyagoda *et al.*, 2012.

Taxonomic Notes: None



Pethia conchonius

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Pethia conchonius* is widely distributed in inland waters of Bangladesh and fairly to less abundant in the country. The estimated Extent of Occurrence (2,17,467.88 km²) and Area of Occupancy (11,128.35 km²) values are much higher than the upper limits of any IUCN Threatened Category. There are no specific major threats to the species. It is, therefore, assessed as Least Concern.

Date Assessed: 20 August 2014

History

Regional Status: The species has been assessed Not Threatened (NO) earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Pethia conchonius* is found in Afghanistan, Bangladesh, India, Myanmar, Nepal and Pakistan (Goswami *et al.* 2012).

Bangladesh: It occurs in a wide range of habitats, including in rivers, canals, *beels*, ponds and inundated fields throughout Bangladesh (Roknuzzaman 2007).

EOO: 2,17,468 km²

AOO: 11,128 km²

Population

Generation Time (Length): Information on generation time is unknown, however, life span of the fish is about five years (Sharpe 2004).

Total Population: No empirical population data is available.

Trend: Unknown.

Habitat and Ecology

Pethia conchonius is a freshwater species and inhabits a wide range of microhabitats. It is a benthopelagic fish and feeds mainly on planktonic crustaceans, worms, insects and plant matters (Mills and Vevers 1989). The fish is a partial (heterochronal) spawner (Mitra *et al.* 2006). Rosy barb is a shoaling fish (Talwar and Jhingran 1991).



Assessor: Md. Enamul Hoq

Pethia guganio

Species ID: FI0101



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Pethia guganio* (Hamilton, 1822)

English Name: Glass Barb

Bengali Name: Mola Punti

Synonym/s: *Barbus guganio* (Hamilton, 1822)

Cyprinus guganio (Hamilton, 1822)

Puntius ambassis (Rahman, 1974)

Taxonomic Notes: The species was originally described as *Barbus guganio* by Hamilton in 1822. He had adopted the genus as *Barbus* and then changed it to *Puntius*. This cyprinid genus *Puntius*, which contains some 120 valid species, has long been suspected to be polyphyletic. The *Puntius guganio*s was finally adopted as *Pethia guganio* in 2012 by Pethiyagoda *et al.* (2012).



Pethia guganio

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Pethia guganio* is widely distributed in inland waters of Bangladesh. There are no major widespread threats to its habitats. It has large Extent of Occurrence and Area of Occupancy. It is, therefore, assessed under the Category Least Concern.

Date Assessed: 20 August 2014

History

Regional Status: Evaluated (Galib *et al.* 2013, Hossain *et al.* 2014, WorldFish 2013).

Geographic Range

Global: *Pethia guganio* is available in Bangladesh, India and Nepal (Goswami *et al.* 2012).

Bangladesh: It is found in rivers, canals, *beels*, ponds and hill rivers in Bangladesh.

EOO: 2,17,468 km²

AOO: 11,128 km²

Population

Generation Time (Length): Unknown.

Total Population: Abundant, but no information is available about its wild population trend.

Trend: Unknown.

Habitat and Ecology

Pethia guganio inhabits from tropical to sub-tropical rivers and ponds, rivers of the hills with sand and mud substrate. Omnivorous, feeding on detritus, vegetation and associated aquatic insects. This species breeds in upper reaches of permanent rivers, ponds and lakes and breeding season falls in December (Shrestha and David 2012).



Assessor: Md. Enamul Hoq

Pethia phutunio

Species ID: FI0102



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Pethia phutunio* (Hamilton, 1822)
English Name: Spotted Sail Barb, Dwarf Barb, Pygmy Barb
Bengali Name: Phutani punti
Synonym/s: *Barbus phutunio* Day, 1878
Cyprinus phutunio Hamilton, 1822
Systemus phutunio Bleeker, 1853
Puntius phutunio Rahman, 1974

Taxonomic Notes: The species was originally described as *Cyprinus phutunio* by Hamilton (1822). This cyprinid genus *Puntius*, which contains some 120 valid species, has long been suspected to be polyphyletic. The *Puntius phutunio* was finally adopted as *Pethia phutunio* by Pethiyagoda *et al.* (2012).



Pethia phutunio

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Pethia phutunio* is widely distributed in inland waters of Bangladesh. There is no major widespread threat to its population and habitat. It is therefore, assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: It was considered as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: *Pethia phutunio* is found in Bangladesh, India, Myanmar and Pakistan (Goswami *et al.* 2012).

Bangladesh: It is available in rivers, streams, canals, beels, ponds and similar waters in Bangladesh (Rahman 1989).

EOO: 2,17,468 km²

AOO: 11,128 km²

Population

Generation Time (Length): Unknown.

Total Population: Comparatively less abundant than other barbs, but no information is available in wild population trend.

Trend: Unknown.

Habitat and Ecology

It is a very small barb (4 cm), adults feed on debris and zoobenthos, such as small insects, crustaceans and worms. It inhabits in small, slow flowing and standing waters. Spawning usually takes place in the morning between plants near the surface. It is a benthopelagic species and occurs in standing waters, over silt and mud substrate (Mills and Vevers 1989).



Assessor: Md. Enamul Hoq

Puntius sophore

Species ID: FI0105



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Puntius sophore* (Hamilton, 1822)

English Name: Spotfin Swamp Barb, Pool Barb, Stigma Barb

Bengali Name: Jat Punti, Vadi Punti

Synonym/s: *Cyprinus sophore* Hamilton, 1822

Systemus chrysopterus McClelland, 1839

Barbus annandalei Fowler, 1924

Puntius stigma Rahman, 1974

Taxonomic Notes: None



Puntius sophore

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Puntius sophore* is widely distributed in inland waters of Bangladesh. This is the most common species under the genus *Puntius*. Moreover, the extent of occurrence and area of occupancy have been estimated as 2,17,467.88 km² and 11,128.35 km² respectively, which are much higher than the threshold values for any threatened category. The species is, therefore, assessed as Least Concern.

Date Assessed: 21 January 2015

History

Regional Status: The taxon was considered as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It occurs in Afghanistan, Bangladesh, Bhutan,

China, India, Nepal, Pakistan and Sri Lanka (Goswami *et al.* 2012).

Bangladesh: This fish is abundant in rivers, canals, beels, ponds and inundated fields of Bangladesh (Rahman 1989, Ahmed 2008, Rahman *et al.* 2012, Miah *et al.* 2013).

EOO: 2,17,468 km²

AOO: 11,128 km²

Population

Generation Time (Length): Unknown.

Total Population: No information is available on population and its trend.

Trend: Unknown.

Habitat and Ecology

It inhabits rivers, streams, ponds, beels, floodplains, baors, haors in plains and sub-montane regions predominantly (Rahman 1989). It is voracious eater of floating organisms and aquatic plants. This fish can breed everywhere in its habitat during the rainy season. It lives in and move in groups (Rahman and Ruma 2007).



Assessor: Md. Enamul Hoq

Puntius terio

Species ID: FI0106

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Puntius terio* (Hamilton, 1822)

English Name: One Spot Barb, Teri Barb

Bengali Name: Teri Punti

Synonym/s: *Cyprinus terio* Hamilton, 1822

Systemus terio Bleeker, 1853

Barbus terio Day, 1878

Puntius terio Rahman, 1974

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: The species is fairly common in freshwater habitats and recorded from eastern to western parts of Bangladesh, including the Sundarbans (Bernacsek 2001, Alam *et al.* 2013, Flowra *et al.* 2013, Mian *et al.* 2013, Hossain *et al.* 2014). There is no major widespread threat across its distribution. Therefore, *P. terio* is assessed as Least Concern.

Date Assessed: 21 January 2015

History

Regional Status: The taxon was considered as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It occurs in Bangladesh, India, Nepal, Myanmar, Pakistan (Goswami *et al.* 2012).



Puntius terio

© Md. Mizanur Rahman

Bangladesh: It is available in rivers, canals, beels, ponds and similar waters in Bangladesh (Mian *et al.* 2013, Hossain *et al.* 2014).

EOO: 2,17,468 km²

AOO: 11,128 km²

Population

Generation Time (Length): Unknown.

Total Population: No information is available on population size and its trend.

Trend: Unknown.

Habitat and Ecology

It inhabits rivers, canals, ponds and inundated fields, over a silt and mud substrate. It feeds mainly on diatoms, algae, crustaceans, insects and mud-sands.



Assessor: Md. Enamul Hoq

Salmostoma acinaces

Species ID: FI0251



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Salmostoma acinaces* (Valenciennes, 1844)

English Name: Silver Razorbelly Minnow

Bengali Name: Chela

Synonym/s: *Leuciscus acinaces* Valenciennes, 1844

Pelecus diffusus Jerdon, 1849

Chela argentea Day, 1867

Taxonomic Notes: *Salmophasia acinaces* was originally described as *Leuciscus acinaces* by Valenciennes (1844) from India. Presently described as *Salmophasia acinaces* in different literatures.



Salmostoma acinaces

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Salmostoma acinaces* is distributed all over Bangladesh with a moderate abundance. The estimated Extent of Occurrence and Area of Occupancy are higher than the upper threshold values of any IUCN threatened category. There are no reports on its population size. In the circumstances, the fish is assessed as Least Concern.

Date Assessed: 16 October 2014

History

Regional Status: This taxon has been assessed as Data Deficient (DD) in Bangladesh (IUCN Bangladesh, 2000) and assessed as Least Concern (LC) ver 3.1 at global level.

Geographic Range

Global: It occurs in Bangladesh and India.

Bangladesh: This fish is found in almost all freshwater bodies in Bangladesh (Ali *et al.* 2004, Das and Saha 2008, Hossain *et al.* 2009, Rubel *et al.* 2014).

EOO: 20,140 km²

AOO: 2,767 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is benthic-pelagic. This fish feeds on both plant and animal matters as well as on debris.



Assessor: Mostafa Ali Reza Hossain

Psilorhynchus balitora

Species ID: FI0115

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	PSILORHYNCHIDAE

Scientific Name: *Psilorhynchus balitora* (Hamilton, 1822)

English Name: Balitora Minnow

Bengali Name: Balichata

Synonym/s: *Cyprinus balitora* Hamilton, 1822

Psilorhynchus variegatus McClelland, 1839

Psilorhynchus balitora Day, 1878

Taxonomic Notes: Originally described as *Cyprinus balitora* by Hamilton (1822) from rivers of north-east Bengal. Day (1877) recognized it as *Psilorhynchus balitora* which is the valid name to date.

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Psilorhynchus balitora* is widely distributed in its all ranges though its abundance is low all over (Ahmed and Rahman 2014). As this species lives in diversified range of habitats, including hill streams, the populations of this species are not likely to be adversely affected by the threats immediately for its significant decline. Moreover, the Extent of Occurrence (1,10,401.12 km²) and Area of Occupancy (4,685.90 km²) surpass the threshold values of lowest Threatened Category; therefore, this species is assessed as Least Concern.

Date Assessed: 21 January 2015

History

Regional Status: The taxon was assessed as Data Deficient (IUCN Bangladesh 2000).



Psilorhynchus balitora

© Md. Mizanur Rahman

Geographic Range

Global: It is found in Bangladesh, India, Myanmar and Nepal (Raknuzzaman 2007).

Bangladesh: This species is available in the Mahananda and Korotoa Rivers in Dinajpur and the Dahuki River in Sylhet (Rahman 2005). Also reported from the Feni, Brahmaputra and the Jamuna Rivers (Haroon *et al.* 1989, Rahman and Akhter 2007). Recently, this fish has been collected from the Piyang River of Sylhet, Chittagong University waterfalls and also from the upstream of the Sangu River (Ahmed *et al.* 2015).

EOO: 1,10,401 km²

AOO: 4,686 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

This species is found in fast streams and shallow rivers, especially where the bottom is rocky, adhering tightly to the rocky substratum with the expanded paired fins and the breast applied to the rocks (Talwar and Jhingran 1991). It feeds mainly on protozoans, cyclops, daphnia, phytoplankton, etc (Raknuzzaman 2007).



Assessor: Md. Mizanur Rahman

Aplocheilus panchax

Species ID: FI0188



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINODONTIFORMES	APLOCHEILIDAE

Scientific Name: *Aplocheilus panchax* (Hamilton, 1822)

English Name: Blue Panchax, Panchax Minnow

Bengali Name: Teen Chokha, Kanpona, Naharol

Synonym/s: *Esox panchax* Hamilton, 1822

Aplocheilus chrysostrigmus McClelland, 1839

Panchax buchhanani Valenciennes, 1864

Hoplochilus panchax Day, 1878

Taxonomic Notes: None.



Aplocheilus panchax

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least concern (LC) ver 3.1

Justification: *Aplocheilus panchax* occurs in a wide variety of water bodies throughout Bangladesh. Although its population shows a declining trend but still it is common and abundant throughout its entire habitat range (Rahman 2005, Alam 2007). Threats are general and not specific to this species. Hence, it is assessed as Least Concern.

Date Assessed: 15 December 2014

History

Regional Status: The taxon has been considered Vulnerable earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: It is reported from Bangladesh, India, Myanmar, Malayan Archipelago, Nepal, Pakistan and Sri Lanka (Talwar and Jhingran 1991, Pethiyagoda 1991, Huber 1996).

Bangladesh: *A. panchax* is widely distributed throughout Bangladesh (Rahman 2005, Alam 2007) and found in all types of water bodies.

EOO: 2,17,468 km²

AOO: 11,964 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on total population is not available. However, the fish is fairly common within its habitat ranges (Rahman 2005, Alam 2007).

Trend: Unknown.

Habitat and Ecology

It is a surface feeder and feeds on insect larvae, particularly that of mosquitos. It inhabits fresh and brackish waters and is found in canals, rivers, beels, haors, ponds, ditches and inundated fields (Alam 2007).



Assessor: Md. Golam Mustafa

Liza parsia

Species ID: FI0210



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	MUGILIFORMES	MUGILIDAE

Scientific Name: *Liza parsia* (Hamilton, 1822)

English Name: Goldspot Mullet, Brackish Water Mullet, Grey Mullet

Bengali Name: Parsia, Parse, Parse Bata

Synonym/s: *Mugil parsia* Hamilton, 1822
Mugil olivaceus Day, 1889

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least concern (LC) ver 3.1

Justification: *Liza parsia* is widely distributed in coastal waters, estuaries, lagoons and tidal rivers throughout the coastal districts of Bangladesh. It is the commonest species in estuarine commercial catch. There is no known major threat to the species. So, the species is listed as Least Concern.

Date Assessed: 18 October 2014

History

Regional Status: This species is categorized as Not Threatened in the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: It is found in Australia, Bangladesh, India, Pakistan, New Guinea and Sri Lanka. (Talwar and Jhingran 1991, Rahman 2005)

Bangladesh: *Liza parsia* is described as a common



Liza parsia

© Md. Mizanur Rahman

species in coastal waters and estuaries of Bangladesh (Quddus and Shafi 2003, Rahman 2005) especially in the south-western part of the country (Wahab 2007). It also enters into the tidal rivers but breeds in the deep sea (the Bay of Bengal) (Quddus and Shafi 2003). It is very tasty with high commercial value and is cultured in the brackish water ponds in coastal Bangladesh.

EOO: 75,824 km²

AOO: 12,183 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Its fry feeds on phytoplankton and zooplankton. Its adults feed on algae, diatom, copepods, polychaeta as well as other organic matters. Inhabits shallow coastal waters, estuaries and lagoons. Sometimes it enters into tidal rivers but does not breed there (Quddus and Shafi 2003). It has a high resilience, the population doubles within 15 months (Froese and Pauly 2014). It breeds in the deep sea (Talwar and Jhingran 1991, Quddus and Shafi 2003). It is a demersal and catadromous species.



Assessor: Md. Monirul Islam

Liza subviridis

Species ID: FI0211



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	MUGILIFORMES	MUGILIDAE

Scientific Name: *Liza subviridis* (Valenciennes, 1836)

English Name: Greenback Mullet

Bengali Name: Bata

Synonym/s: *Mugil subviridis* Valenciennes, 1836

Mugil jerdoni Day, 1876

Mugil javanicu Bleeker, 1853

Taxonomic Notes: None



Liza subviridis

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This is a widespread species in south-eastern coast of Bangladesh with no known major threats. Its Extent of Occurrence (8,528.90 km²) and Area of Occupancy (3,760.92 km²) are higher than the upper threshold values of the any Threatened Category. Also no fluctuation or reduction of its population is reported. It is therefore, listed as Least Concern.

Date Assessed: 18 October 2014

History

Regional Status: This species was categorized as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Arabian Gulf, Pakistan, India, Bangladesh, Sri Lanka, through the East Indies to China, Queensland and Ploynesia (Talwar and Jhingran 1991, Rahman and Ruma 2007).

Bangladesh: In Bangladesh, it inhabits in the estuarine and shallow coastal waters in the Chittagong and Cox's Bazar areas (Rahman and Ruma 2007). Rahman (2005) reported that this species was found in tidal rivers in the coastal areas of Bangladesh.

EOO: 8,529 km²

AOO: 3,761 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It picks up mud from the bottom and strains plant and animal materials with its sieve-like gill rakers. Adults feed on small algae, diatoms and benthic detritus. Its fry takes zooplankton, diatoms, detritus and inorganic sediment. It forms schools in shallow coastal waters and enters lagoons, estuaries and freshwater for feeding. Its juveniles may enter rice fields and mangroves (Rahman and Ruma 2007). It is oviparous and spawning occurs at sea (Harrison and Senou 1997). It is a demersal amphidromous species.



Assessor: Md. Monirul Islam

Mugil cephalus

Species ID: FI0212



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	MUGILIFORMES	MUGILIDAE

Scientific Name: *Mugil cephalus* Linnaeus, 1758

English Name: Flathead Mullet, Stripped Mullet, Black Mullet, Fatback, Bright Mullet, Bully Mullet, Callifaver Mullet, Common Grey Mullet

Bengali Name: Bhangon, Bhangon Bata

Synonym/s: *Mugil albula* Linnaeus, 1766

Mugil ashanteensis Bleeker, 1863

Mugil cephalotus Valenciennes, 1836

Mugil dobula Günther, 1861

Mugil gelatinosus Klunzinger, 1872

Mugil grandis Castelnau, 1879

Mugil hypselosoma Ogilby, 1897

Mugil japonicus Temminck & Schlegel, 1845

Mugil lineatus Valenciennes, 1836

Mugil mexicanus Steindachner, 1876

Mugil muelleri Klunzinger, 1880

Mugil provensalis Risso, 1810

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least concern (LC) ver 3.1

Justification: This is a widespread species in southern coast of Bangladesh with no known major threats. Its Extent of Occurrence is 75,823.70 km² and Area of Occupancy is 12,183.48 km² both of which are greater than those of the Threatened Category. No fluctuation or reduction of its population is reported. Thus, it is listed as Least Concern.

Date Assessed: 18 October 2014



Mugil cephalus

© Balam Mahalder

History

Regional Status: It has not been assessed for IUCN Red List in Bangladesh.

Geographic Range

Global: It is distributed worldwide it inhabits in the temperate and tropical waters of the seas, estuaries and tidal rivers (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It inhabits the estuarine and tidal rivers throughout Bangladesh (Rahman 2005), especially in the southeastern and southwestern coasts (Haroon 2007).

EOO: 75,824 km²

AOO: 12,183 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Adults are found in coastal waters often entering estuaries and rivers (Harrison 1995). Its youngs are omnivorous but feed on zooplankton, small fish and crustaceans as they grow. It spawns in shallow seas, the young enters the estuarine nursery areas at about 1-1.5 cm sizes. It picks up mud from the bottom and strain plant and animal material from it through their sieve-like gillrakers and pharyngeal teeth. Indigestible materials are spat out (Haroon 2007). It inhabits in the temperate and tropical waters in the seas, estuaries and tidal rivers (Talwar and Jhingran 1991, Harrison 1995). It is also found abundantly in saline water lakes (Talwar and Jhingran 1991) and coastal ponds (Haroon 2007).



Assessor: Md. Monirul Islam

Paramugil parmata

Species ID: FI0209



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	MUGILIFORMES	MUGILIDAE

Scientific Name: *Paramugil parmata* (Cantor, 1849)
English Name: Broad-mouthed Mullet, Giantscale Mullet
Bengali Name: Bata
Synonym/s: *Mugil parmatus* Cantor, 1849
Liza oligolepis Bleeker, 1859
Taxonomic Notes: None.



Paramugil parmata

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least concern (LC) ver 3.1

Justification: *Paramugil parmata* is a widespread species in southern coastal districts of Bangladesh with no known major threats. Its Extent of Occurrence and Area of Occupancy are 46,947.01 km² and 10,178.31 km², respectively, which are higher than the threshold values for any Threatened Category. So, the species is assessed as Least Concern.

Date Assessed: 18 December 2014

History

Regional Status: This has not been assessed by Red List of IUCN Bangladesh 2000.

Geographic Range

Global: It is found in Indian Ocean, Western Pacific including South China Sea, Malaysia, Indonesia, New Guinea, the Philippines, India and Bangladesh (Harrison and Senou 1997, Alam 2007).

Bangladesh: It inhabits the estuary and shallow coastal areas of Bangladesh. It contributes a negligible to fisheries in the Meghna estuary of Bangladesh (Alam 2007).

EOO: 46,947 km²
AOO: 10,178 km²

Population

Generation Time (Length): Unknown.

Total Population: Although no data exist on trends in population size in Bangladesh, it is believed that the population is more or less stable at this time

Trend: Unknown.

Habitat and Ecology

It is a catadromous species (McDowall 1997). It browses on submerged surface and filtering large quantity of benthic detritus (Alam 2007). It consumes minor fish and takes part in aquatic food chain. This species inhabits marine waters, brackish water lagoons, estuaries and river mouth (Harrison and Senou 1997, Alam 2007).



Assessor: Md. Monirul Islam

Rhinomugil corsula

Species ID: FI0213



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	MUGILIFORMES	MUGILIDAE

Scientific Name: *Rhinomugil corsula* (Hamilton, 1822)

English Name: Corsula, Kakunda, Corsula Mullet

Bengali Name: Khorsula, Bata, Khalla

Synonym/s: *Mugil corsula* Hamilton, 1822

Mugil squamipinnis Swainson, 1839

Taxonomic Notes: None



Rhinomugil corsula

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least concern (LC) ver 3.1

Justification: *Rhinomugil corsula* is a widespread and very common species with no known major widespread threats and is assessed as Least Concern.

Date Assessed: 19 December 2014

History

Regional Status: It was listed as Not Threatened in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India, Myanmar and Nepal (Dahanukar 2010).

Bangladesh: It is available throughout the rivers and estuaries of Bangladesh (Rahman 2005). It is reported from the River Padma (Rahman *et al.* 2012), the River Choto Jamuna (in the north-west region) (Galib *et al.* 2013) and the Meghna River (Rahman 2005).

EOO: 2,24,779 km²

AOO: 16,871 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is an anadromous species (Riede 2004). It usually swims over sandy-muddy bottoms and sea grass meadows, in relatively still waters. It is a surface dweller fish and takes small fish, insects, leaves of plant, organic matter. Breeding time of this fish starts in the month of April and continues till July (Sultana *et al.* 2013). The fish is oviparous, eggs are pelagic and non-adhesive (Breder and Rosen 1966, Froese and Pauly 2014). It can tolerate a wide range of temperature and salinity. It inhabits rivers and estuaries (Rahman 2005). It commonly occurs at water depths of up to 20 metres but may be found offshore or in deeper waters (Sultana *et al.* 2013).



Assessor: Md. Monirul Islam

Chanda nama

Specied ID: FI0200

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	AMBASSIDAE

Scientific Name: *Chanda nama* (Hamilton, 1822)

English Name: Elongate Glass-Perchlet, Asian Glass Fish

Bengali Name: Nama Chanda, Chanda

Synonym/s: *Ambassis indica* McClelland & Griffith, 1842

Ambassis oblonga Cuvier, 1828

Chanda bogoda Hamilton, 1822

Chanda phula Hamilton, 1822

Equula ovata Swainson, 1839

Taxonomic Notes: None



Chanda nama

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Chanda nama* is a widely distributed species and found throughout Bangladesh, and occurs in a wide range of water bodies. Although, the fish is apparently declining in population, it is still common within its habitat ranges. The observed threats are general and it is unlikely that this fish will face the risk of extinction in future. Hence, it is assessed as Least Concern.

Date Assessed: 10 March 2015

History

Regional Status: *Chanda nama* has been assessed as Vulnerable earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Chanda nama* is reported from Bangladesh, India, Nepal and Pakistan (Wahab 2007).

Bangladesh: It is distributed in most types of freshwater bodies throughout the country (Wahab 2007).

EOO: 2,24,779 km²

AOO: 54,683 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

Chanda nama inhabits fresh and brackish waters, both in standing and running waters (Talwar and Jhingran 1991). Its habitats include clear streams, canals, beels, ponds and inundated paddy fields (Wahab 2007). It is a crepuscular and larvivorous fish. It spends most of its time in small shoals, under the cover of marginal roots or floating vegetation (Daniels 2002).



Assessor: Md. Mizanur Rahman

Pseudambassis lala

Species ID: FI0202



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	AMBASSIDAE

Scientific Name: *Pseudambassis lala* (Hamilton, 1822)

English Name: Lal Chanda, Ranga Chanda, Chandu

Bengali Name: Mola punti

Synonym/s: *Amhassis alta* (Cuvier, 1828)

Chanda lala (Hamilton, 1822)

Parambassis lala (Hamilton, 1822)

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Pseudambassis lala* is particularly distributed in the southeastern part of the country. It is a less abundant species. The estimated Extent of Occurrence (EOO) and Area of Occupancy (AOO) are higher than the upper threshold values for any IUCN threatened category. Hence, the species is considered as Least Concern.

Date Assessed: 15 December 2014

History

Regional Status: This taxon has not been assessed earlier in Bangladesh.

Geographic Range

Global: *Pseudambassis lala* is found in India, Bangladesh and Myanmar (Wahab 2007).

Bangladesh: It is sporadically found in canals, beels, haor and rivers mostly in south-eastern part of Bangladesh.



Pseudambassis lala

© Md. Mizanur Rahman

EOO: 77,229 km²

AOO: 12,024 km²

Population

Generation Time (Length): Unknown.

Total Population: Abundant, but no information is available in population trend.

Trend: Unknown.

Habitat and Ecology

Pseudambassis lala inhabits fresh and brackish waters and river mouths. It is a surface and bottom feeder, feeds on insect larvae and attached periphyton. It breeds during the rains. (<http://www.iucnredlist.org/details/166569/0>).



Assessor: Md. Golam Mustafa

Associate Assessor/s: Balaram Mahalder and Mohammad Ilyas

Parambasis ranga

Species ID: FI0203



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	AMBASSIDAE

Scientific Name: *Parambasis ranga* (Hamilton, 1822)
English Name: Indian Glassy Fish, Indian Glass Perch.
Bengali Name: Gol chanda, Chanda, Chandu, Tek Chanda.
Synonym/s: *Chanda ranga* Hamilton, 1822
Ambassis alta Cuvier, 1828
Ambassis ranga Day, 1878
Pseudambassis ranga Talwar & Jhingran, 1991

Taxonomic Notes: There is a debate over whether the generic status of this species should be *Parambassis* or *Pseudambassis* (Dahanukar 2010).

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Parambasis ranga* occurs in a wide range of habitats throughout the country and common in fish catches. No major threat is reported for its habitats or population decline. So, the species is assessed as Least Concern.

Date Assessed: 15 December 2014

History

Regional Status: It was considered as vulnerable (IUCN Bangladesh 2000).

Geographic Range

Global: The species is found in Bangladesh, India, Malaysia, Myanmar, Nepal, Pakistan and Thailand (Talwar and Jhingran 1991, Srestha 1994 and Rahman 2005).



Parambasis ranga

© Balam Mahalder

Bangladesh: It occurs in river, haor, baor, beel, floodplain, canals, ponds and streams all over Bangladesh (Rahman 2005).

EOO: 1,86,253 km²

AOO: 7,502 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It occurs in river, haor, baor, beel, floodplain, canals, ponds and streams all over Bangladesh (Rahman 2005). This fish is a migrant from river to floodplain. It feeds on invertebrates, worms and crustaceans.



Assessor: Md. Golam Mustafa

Associate Assessor/s: Mohammad Ilyas

Anabas testudineus

Species ID: FI0231



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	ANABANTIDAE

Scientific Name: *Anabas testudineus* (Bloch, 1792)
English Name: Climbing Perch, Climbing Bass, Walking Fish
Bengali Name: Koi, Corvu, Kai
Synonym/s: *Anthias testudineus* Bloch, 1792
Perca scandens Daldorf, 1797
Amphiprion testudineus Schneider, 1801
Cojus cobojus Hamilton, 1822
Anabas macrocephalus Bleeker, 1854
Anabas scandens Day, 1878
Anabas testudineus Thakur & Das, 1968
Taxonomic Notes: None.

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Anabas testudineus* is widely distributed and fairly common in all ranges of its habitats. The Extent of Occurrence and Area of Occupancy have been estimated as 1,74,914.88 km² and 3,002.03 km², respectively, which are higher than the threshold values of any Threatened Category. Although there are some potential threats like complete dewatering and drying of its habitats but the fish is known to withstand such adverse conditions. As a very hardy fish with wide range of habitats the species has been considered as Least Concern.

Date Assessed: 20 March 2015

History

Regional Status: This taxon has not yet been assessed for the IUCN Red List.



Anabas testudineus

© Md. Mizanur Rahman

Geographic Range

Global: It is found in Bangladesh, China, India, Malaysia, Myanmar, Pakistan, Philippines, Polynesia, Sri Lanka and Thailand (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: *Anabas testudineus* found in canals, ditches, ponds, beels and swamps and freshwater wetlands throughout Bangladesh (Ahmed and Akhter 2008, Fawzia *et al.* 2013, Bhuiyan *et al.* 2014, Latifa *et al.* In Press).

EOO: 1,74,915 km²

AOO: 3,002 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population is unknown but is common in floodplains, beels and ditches.

Trend: Unknown.

Habitat and Ecology

It is an insectivore, feeding on invertebrates, fish and plants. Visual feeder, thus, feeding primarily during the day. During heavy rains, the fish is found to wander long distances on land. The species is renowned for its ability to migrate long distances over land. Occurs mainly in low-lying swamps, marsh-lands, lakes, canals, pools, small pits and puddles. Abundant in paddy fields and water bodies with water hyacinth (Saha 2007).



Assessor/s: Gulshan Ara Latifa

Channa gachua

Species ID: FI0004



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	CHANNIDAE

Scientific Name: *Channa gachua* (Hamilton, 1822)

English Name: Dwarf Snakehead

Bengali Name: Chang, Chyang, Ookal, Tetya, Telo Taki, Chang Taki, Gachua, Gori, Pagla, Hulpa, Chaitan

Synonym/s: *Ophicephalus kela* Gunther, 1861
Ophiocephalus gachua Bleeker 1877

Taxonomic Notes: None



Channa gachua

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Channa gachua* is widely distributed in all freshwater habitats throughout the country but it is comparatively less abundant than the related species out the genus. As a non-commercial species, there is no known major threat to the fish. So, the species is assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: It was listed as Not Threatened (IUCN Bangladesh 2000)

Geographic Range

Global: It is found Afghanistan, Bangladesh, Bhutan, Cambodia, China, India, Iran, Iraq, Laos, Indonesia, Malaysia, Myanmar, Nepal, Pakistan, Sri Lanka, Singapore, Thailand and Vietnam. (Rahman 2005)

Bangladesh: It is found in different types of freshwater habitats throughout the country (Rahman 1989).

EOO: 24,100 km²

AOO: 2,063 km²

Population

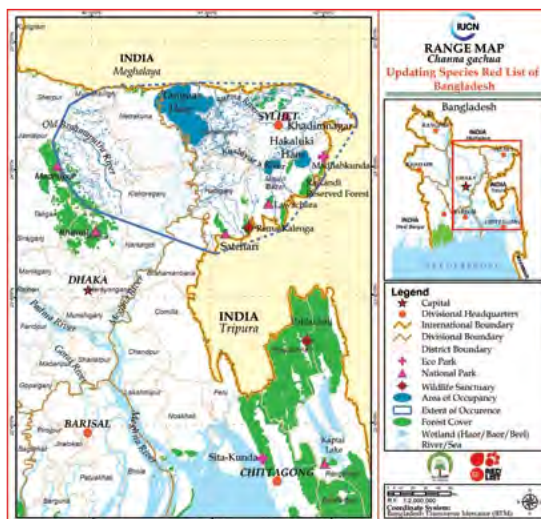
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is a carnivorous species and feeds on small fishes, insects and crustaceans. It exhibits parental care, with the male brooding eggs and fry in its mouth (Lim *et al.* 2008). Adults inhabit medium to large rivers, brooks, rapid-running mountain streams and stagnant water bodies including sluggish flowing canals (Taki 1978).



Assessor: Ismot Ara

Channa orientalis

Species ID: FI0006



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	CHANNIDAE

Scientific Name: *Channa orientalis* Bloch and Schneider, 1801
English Name: Asiatic Snakehead, Walking Snakehead
Bengali Name: Telo Taki, Gachua, Raga, Cheng, Gaira, Ragua
Synonym/s: *Ophiocephalus gachua* Hamilton, 1822
Ophiocephalus apus Canestrini, 1861
Ophicephalus gachua Shaw and Shepbear, 1937
Channa orientalis Menon 1974

Taxonomic Notes: Sometimes misidentified as *Channa gachua*. It is evident that *C. orientalis* as presently understood is a species complex (S. Ahmed, pers. comm. 2014).



Channa orientalis

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Channa orientalis* is a wide spread species in all freshwater habitats of Bangladesh. It has no specific major threat that can qualify the species in any threatened category. So, the species is assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: Earlier it was listed as Vulnerable (VU) in IUCN Bangladesh (2000).

Geographic Range

Global: It is found in Afghanistan, Bangladesh, Bhutan, China, India, Indonesia, Malaysia, Myanmar, Nepal,

Pakistan, Sri Lanka, Singapore, Thailand and Vietnam. (Talwer and Jhingran 1991, Rainboth 1996, Rahman 2005)

Bangladesh: It is known to occur in all freshwater systems in Bangladesh (Rahman 2005).

EOO: 2,20,440 km²

AOO: 10,669 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Declining.

Habitat and Ecology

C. orientalis is broadly adapted species occurring in rivers, lakes, ponds, mountain streams and even brackish water (Rainboth 1996). It usually hides under the cover of marginal roots and bogwood. It can tolerate very stagnant, poorly oxygenated and turbid water. This species spawns in shallow water with silt or gravel substrate.



Assessor: Ismot Ara

Channa punctata

Species ID: FI0007



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	CHANNIDAE

Scientific Name: *Channa punctata* (Bloch, 1793)
English Name: Spotted Snakehead, Green Snakehead
Bengali Name: Taki, Lata, Chaitan, Lati, Okol, Sati, Rakhta Taki, Bheto Taki, Bhatua Taki, Gorai
Synonym/s: *Ophicephalus punctatus* Bloch, 1793
Channa punctatus (Bloch, 1793)
Ophiocephalus lata Hamilton, 1822
Ophiocephalus punctatus Day, 1878

Taxonomic Notes: None



Channa punctata

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Channa punctata* is widely distributed in the country in all types of water bodies. The fish is relatively common within all of its habitat ranges. It is found in good numbers in markets. The threats to the species are general. Thus the species is assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: The species was assessed as Not Threatened in the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: It is found in Afghanistan, Bangladesh, Bhutan, India, Myanmar, Nepal, Pakistan, Sri Lanka, and Yunnan (China). (Talwer and Jhingran 1991, Rainboth 1996, Rahman 2005).

Bangladesh: It occurs in river, streams, beels, ponds, ditches generally in floodplains and also found in rice field and irrigation channels throughout the country. (Rahman 2005).

EOO: 2,20,440 km²
AOO: 10,669 km²

Population

Generation Time (Length): Unknown.
Total Population: Unknown.
Trend: Declining.

Habitat and Ecology

They are carnivorous (voracious) and predatory to fish, prefers stagnant water and muddy stream, prolific breeder and shows rapid development (Talwer and Jhingran 1991) and found in fresh and brackish waters as benthopelagic species.



Assessor: Ismot Ara

Channa striatas

Species ID: FI0008

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	CHANNIDAE

Scientific Name: *Channa striatas* (Bloch, 1793)

English Name: Snakehead Murrel, Stripped or banded Snakehead, Common Snakehead, Asian Snakehead, Chevron Snakehead

Bengali Name: Shol, Shoul, Chol, Chena

Synonym/s: *Ophicephalus striatus* Bloch, 1793

Channa striatus (Bloch, 1793)

Ophiocephalus wrathl Lacepede, 1801

Ophiocephalus chena Hamilton, 1822

Ophiocephalus planiceps, Cuvier, 1831

Ophiocephalus stewartii, Playfair, 1867

Ophiocephalus striatus Day, 1878

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: It is the most common species of the genus *Channa* next to *Channa punctata* and widely distributed in all freshwater bodies in the country and no major known threat is observed. Therefore, this species is assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: It was considered as Not Threatened by Red List of IUCN Bangladesh 2000.



Channa striatas

© Md. Mizanur Rahman

Geographic Range

Global: It is found in Bangladesh, Cambodia, China, India, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, Nepal, Pakistan, Sri Lanka, Thailand and Viet Nam. (Talwer and Jhingran 1991, Rainboth 1996, Rahman 2005).

Bangladesh: It occurs in rivers, beels, baors, streams, ponds, ditches, swamps and floodplains throughout Bangladesh (Rahman 2005, Ahmed and Akhter 2008).

EOO: 2,20,440 km²

AOO: 47,287 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown; siltation and drying of beels and swamps are the possible threats for wild population.

Trend: Declining.

Habitat and Ecology

It occurs usually in all freshwater bodies. They are carnivorous, bottom dweller, prefer stagnant muddy water and grassy tanks, breed in ditches, ponds and flooded paddy fields in rainy season (Talwer and Jhingran 1991).



Assessor: Md. Sagir Ahmed

Butis butis

Species ID: FI0227

LEAST CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	ELEOTRIDAE

Scientific Name: *Butis butis* (Hamilton, 1822)

English Name: Crimson-tipped Gudgeon, Duckbill Sleeper, Crimson-tipped Flathead-sleeper, Crazy Fish, Crimson-tipped Flathead Gudgeon, Flat-headed Gudgeon, Pointed Head Gudgeon, Upside Down Sleeper

Bengali Name: Kuli, Bhout Bele

Synonym/s: *Cheilodipterus butis* Hamilton, 1822
Eleotris humeralis Valenciennes, 1837
Eletris butis (Günther, 1861)
Butis butis Koumans, 1953

Taxonomic Notes: This species is often confused with *Butis amboinensis*.



Butis butis

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: The species occurs in the coastal region of Bangladesh including the Sundarban estuary. It has fairly large Extent of Occurrence and Area of Occupancy that are above the threshold levels of any Threatened Category. As a widespread species with no known major threat, *Butis butis* is assessed as Least Concern.

Date Assessed: 17 September 2014

History

Regional Status: This taxon has not yet been assessed for the IUCN Red List.

Geographic Range

Global: This species has a wide geographic range from east Africa, Seychelles, western Mascarenes including Madagascar and the Comoros in the Indian Ocean (Keith *et al.* 2006), across to Sri Lanka and Bangladesh (Rahman 1989), north to the South China Sea, south through the Indo-West Pacific region to Australia and New Caledonia (Allen *et al.* 2002) and as far east as Fiji (Ryan 1981).

Bangladesh: It is usually found around the mouths of rivers or in brackish mangrove estuaries and sometimes penetrates freshwater. It is reported from Bakkhali River, Meghna River Estuary, Patuakhali and Sundarbans (Huda and Haque 2003, Nabi *et al.* 2011, Hossain *et al.* 2012).

EOO: 77,285 km²

AOO: 16,594 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is an ambush hunter, feeding mainly on small fishes and crustaceans and is famous for using sticks and floating leaves as stalking-horses. This species is found in coastal marine to brackish habitats, mangroves (Huda and Haque 2003) and in the lower reaches of rivers, usually on muddy bottoms (Allen *et al.* 2002). It occasionally ascends to rivers.



Assessor: Md. Sagir Ahmed

Butis melanostigma

Species ID: FI0228



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	ELEOTRIDAE

Scientific Name: *Butis melanostigma* (Bleeker, 1849)

English Name: Black Spotted Gudgeon, Black Spot Sleeper

Bengali Name: Kuli, Kalo baila

Synonym/s: *Eleotris melanostigma* Bleeker, 1849
Butis melanostigma Koumans, 1953

Taxonomic Notes: This species is often confused with *Butis butis*. A scarlet spot at the base of the pectoral and interorbital crest not denticulated are the key characters.



Butis melanostigma

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: The species is widely distributed in the coastal region of Bangladesh. It has fairly large Extent of Occurrence and Area of Occupancy. No cognisable threat has been found against the species or its habitats. Therefore, *Butis melanostigma* is assessed as Least Concern.

Date Assessed: 17 December 2014

History

Regional Status: Not assessed in the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: Indo-West Pacific: East Africa to New Guinea. Including Bangladesh, India, Myanmar, Pakistan and Taiwan (Hoese 1986, Allen 1991).

Bangladesh: It inhabits around the mouths of rivers or in brackish mangrove estuaries and sometimes penetrates freshwater (Huda and Haque 2003, Nabi *et al.* 2011, Hossain *et al.* 2012).

EOO: 12,355 km²

AOO: 46,971 km²

Population

Generation Time (Length): Unknown.

Total Population: There is no information on the population and its trends of this species. This species is relatively common in the coastal catches in Bangladesh (Huda and Haque 2003, Nabi *et al.* 2011, Hossain *et al.* 2012).

Trend: Unknown.

Habitat and Ecology

It is demersal, solitary and carnivorous species feeding mainly on small fishes and crustaceans. It is famous for using sticks and floating leaves as stalking-horses. Being an amphidromous species, occasionally it ascends the rivers (Hoese 1986, Allen *et al.* 2002). This species occurs in coastal marine to brackish habitats, mangroves and in the lower reaches of rivers, usually on muddy bottoms (Hoese 1986, Allen *et al.* 2002, Huda and Haque 2003).



Assessor: Md. Sagir Ahmed

Eleotris fusca

Species ID: FI0229

LEAST CONCERN <LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	ELEOTRIDAE

Scientific Name: *Eleotris fusca* (Forster, 1801)

English Name: Dusky Sleeper, Brown Spinecheek Gudgeon

Bengali Name: Kuli, Bhout Bele

Synonym/s: *Poecilia fusca* Forster, 1801

Eleotris niger Quoy & Gaimard, 1824

Taxonomic Notes: *Eleotris fusca* is sometimes confusing with *E. lutea*. In *E. fusca* predorsal scales extend upto the snout.



Eleotris fusca

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least concern (LC) ver 3.1

Justification: *Eleotris fusca* occurs widely in the coastal region of Bangladesh. There is no known major widespread threat to the species. So, it is assessed as Least Concern.

Date Assessed: 17 December 2014

History

Regional Status: It was not assessed in the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: This species has a wide geographic range in Indo-West Pacific: East Africa to French Polynesia. Bangladesh, India, Myanmar, Sri Lanka, Maldives, Malaysia, Indonesia and the Philippines.

Bangladesh: It is usually found around the mouths of rivers or in brackish mangrove estuaries and sometimes penetrates freshwater bordering these areas (Huda and Haque 2003, Rahman 2005, Nabi *et al.* 2011).

EOO: 12,354 km²

AOO: 46,971 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is demersal, amphidromous, feeding mainly on small fishes and crustaceans as well as insects (Reide 2004). This fish spawns on submerged plants with small leaves. The female tends and fans the eggs until hatching and loosely guards the fry for a few days thereafter. Adults inhabit near coast, lagoons, estuaries, tidal rivers and freshwater. They occur in the lower reaches of freshwater streams, usually on mud bottoms. (Pethiyagoda 1991, Allen *et al.* 2002). Juveniles are found mainly among mangrove roots in the more saline areas of lagoons and estuaries.



Assessor: Md. Sagir Ahmed

Glossogobius giuris

Species ID: FI0001

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Glossogobius giuris* (Hamilton, 1822)
English Name: Fresh Water Goby, Bar Eyed Goby, Flat-headed Goby, Forktongue Goby, Gangetic Tank Goby, Tank Goby, White goby.

Bengali Name: Baila, Bailly, Bele, Bailla, Belia, Bhalia Tia Shol, Bakka, Tati)

Synonym/s: *Gobius giuris* Hamilton, 1822
Gobius gutum Hamilton, 1822
Gobius russelli Cuvier, 1829
Gobius striatus (Day, 1868)
Gobius grandidieri Playfair, 1868
Eleotris laticeps De Vis, 1884

Taxonomic Notes: None



Glossogobius giuris

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This species is available in all kinds of fresh, estuarine and sea waters in Bangladesh. However, apparent data suggest its population decline but there exists no empirical information to support it and no major widespread threats are reported so far to place this species in any threatened category. Thus, it is assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: It was considered as Not Threatened (NO) (IUCN Bangladesh 2000).

Geographic Range

Global: This fish is known from South-East Asia, Indo-West Pacific to Indo-China, Africa, Central Australia and the East Indies (Larsen and Britz 2012).

Bangladesh: It is primarily available in rivers, haors, baors, beels, lakes, ponds, swamps and similar water bodies all over Bangladesh and secondarily moves from estuarine to sea water (Rahman 1989).

EOO: 2,17,468 km²

AOO: 11,857 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

The juveniles are omnivorous and adults are predatory (Rahman 1989, Islam 2002). It inhabits aquatic vegetation of clear to turbid freshwater, sandy, gravel or rock substrate of estuaries and sea waters. The species is benthopelagic and amphidromous (Riede 2004).



Assessor: Md. Rafiqun Nabi

Brachygobius nunus

Species ID: FI0002



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Brachygobius nunus* (Hamilton, 1822)

English Name: Short Goby, Golden-banded Goby, Bumblebee Goby, Buzz Goby

Bengali Name: Nuna Bailla

Synonym/s: *Gobius nunus* Hamilton, 1822

Gobius alcockii Annandale, 1906

Gobius bombayensis Annandale, 1919

Taxonomic Notes: None



Brachygobius nunus

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This species is common in brackish water and occasionally found in freshwater in Bangladesh. Due to its wide distribution and no major known threat the species is considered as Least Concern.

Date Assessed: 26 June 2014

History

Regional Status: It was considered Not Threatened in IUCN Red List Bangladesh (2000).

Geographic Range

Global: The *Brachygobius nunus* is known from Bangladesh, Myanmar, India, Indonesia, Malaysia and Thailand (Rahman 1989, Talwer and Jhingran 1991)

Bangladesh: Primarily estuarine but occasionally migrates to freshwater. Reported from the Old Kangsa River near

Netrokona town as well as river Dakatia and Meghna near Chandpur (Rahman 1989).

EOO: 64,055 km²

AOO: 12,668 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

The fish produces few (100-150) but large sized eggs. The young hatch often within about 4-5 days, even earlier and guarded by the male and are not cannibalized. Both fries and adults feed on live brine shrimp, *Daphnia* and white worms. It inhabits estuarine swamps, streams, mangroves, tidal creeks and occasionally freshwater rivers. It is demersal and remains attached to various substrates.



Assessor: Md. Rafiqun Nabi

Apocryptes bato

Species ID: FI0016

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Apocryptes bato* (Hamilton, 1822)

English Name: Goby

Bengali Name: Chiring, Ful Chiring, Dalli Chewa

Synonym/s: *Gobius bato* Hamilton, 1822

Apocryptes batoides, Day 1876

Taxonomic Notes: None



Apocryptes bato

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: The species has wide range of distribution and abundant in almost all the estuaries and tidal rivers throughout the country and no major threat is recognized. So, the species is justified as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: It was assessed as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: Its range is limited to Bangladesh, India, and Myanmar. (Talwer and Jhingran 1991, Rahman 2005)

Bangladesh: The fish occurs along the coast line of Bangladesh, including estuaries and lower tidal rivers (Rahman 2005), Halda River, Karnaphuli, Sangu, Shikalbaha and Chandkhali rivers (Azadi and Arshad-ul-Alam 2013).

EOO: 76,035 km²

AOO: 12,322 km²

Population

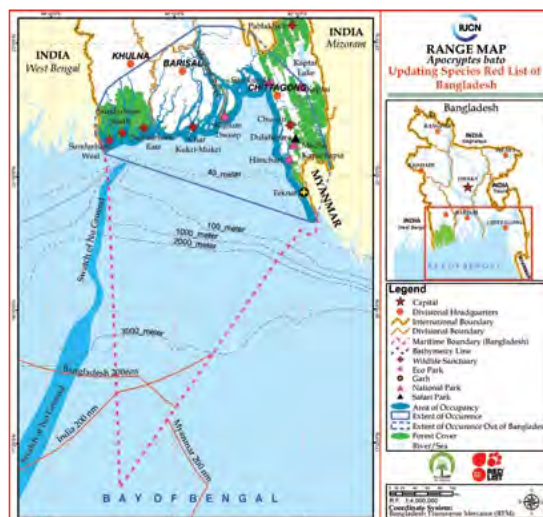
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: The fish was monitored over the 10 years, found stable, widespread and abundant.

Habitat and Ecology

It inhabits coastal waters, estuaries/brackish water and tidal rivers. It burrows within tidal limits of river deltas (Rahman 2005). This amphidromous species feeds on small invertebrates, mostly small crustaceans, zooplanktons and phytoplanktons.



Assessor: Mohammad Ali Azadi

Associate Assessor: Mohammad Arshad-ul-Alam

Oxyurichthys microlepis

Species ID: FI0017



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Oxyurichthys microlepis* (Bleeker, 1849)

English Name: Maned Goby

Bengali Name: Sabuj Chiring

Synonym/s: *Gobius microlepis* Bleeker, 1849

Gobius cristatus (Day, 1873)

Euctenogobius cristatus Day, 1873

Gobius longicauda Steindachner, 1893

Gobius nuchalis Barnard, 1927

Taxonomic Notes: None



Oxyurichthys microlepis

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: The species is fairly common and widely distributed along the coast line, estuaries and lower tidal rivers of Bangladesh. No major threat is reported, so the species is considered as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: It was considered as Data Deficient (IUCN Bangladesh 2000).

Geographic Range

Global: The species is found in Indo-West Pacific: Mekong delta, Cambodia; Kenya to South Africa and western Pacific. (Rainboth 1996, Munroe 2001, Rahman 2005)

Bangladesh: It is found along the coast line of Bangladesh, including estuaries and lower tidal rivers (Rahman 2005), Halda River, Karnaphuli, Sangu, Shikalbaha and Chandkhali rivers (Azadi and Arshad-UI Alam 2013).

EOO: 76,035 km²

AOO: 12,322 km²

Population

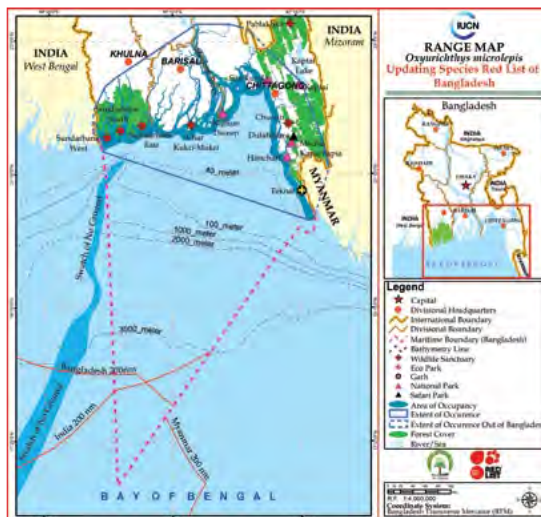
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: No information is available on population trend.

Habitat and Ecology

It inhabits in coastal waters and tidal rivers. It burrows within tidal limits of river deltas (Rahman 2005). This fish amphidromous; feeds on small invertebrates, mostly small crustaceans, zooplanktons and phytoplankton.



Assessor: Mohammad Ali Azadi

Associate Assessor/s: Mohammad Arshad-ul-Alam

Awaous guamensis

Species ID: FI0020



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Awaous guamensis* (Valenciennes, 1837)

English Name: Scribbled Goby, Pacific River Goby

Bengali Name: Shil Baila, Bele

Synonym/s: *Gobius guamensis* Valenciennes, 1837

Gobius stamineus Valenciennes, 1842

Gobius striatus Day, 1878

Taxonomic Notes: This species is regularly confused with *Awaous stamineus*, which is endemic to Hawaii and distinct from *Awaous guamensis*. Further taxonomic work is needed to clarify this species.



Awaous guamensis

© Sagir Ahmed

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Awaous guamensis* is fairly common within its habitat ranges. The estimated Extent of Occurrence (67969.46 km²) and Area of Occupancy (2,237.03 km²) of this species are much higher than the upper threshold values for any threatened category. There is no known major threat to the fish. So, *A. guamensis* is assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: The species has been assessed as Least Concern (IUCN Bangladesh 2000).

Geographic Range

Global: Its range includes Bangladesh, India, This species

is found in the Northern Mariana Islands, Guam and in Melanesia (New Caledonia, Fiji and Vanuatu) (Talwer and Jhingran 1991, Watson 1992, Rahman 2005)

Bangladesh: This species is found in the River Dakatia, Jamuna, Kangsa, Meghna and Someswari as well as hilly streams of Bandarban and Cox's Bazar Districts (Rahman 2005, Ahmad *et al.* 2013).

EOO: 67,969 km²

AOO: 2,237 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It inhabits coastal rivers and estuaries. It is an amphidromous species, feeds on filamentous algae, worms, crustaceans, insects, small fishes and suspended food particles. It prefers clear water with rocky or pebble substrate.



Assessor: Mohammad Arshad-ul-Alam

Associate Assessor/s: Mohammad Ali Azadi

Boleophthalmus boddarti

Species ID: FI0033



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Boleophthalmus boddarti* (Pallas, 1770)

English Name: Boddart's Goggle-eyed Goby, Blue Spotted Mudskipper, Mudskipper

Bengali Name: Dahuk, Menua

Synonym/s: *Gobius boddarti* Pallas, 1770

Gobius striatus Bloch & Schneider, 1801

Gobius plinianus Hamilton, 1822

Boleophthalmus inornatus Blyth, 1860

Boleophthalmus sculptus Günther, 1861

Taxonomic Notes: None



Boleophthalmus boddarti

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Boleophthalmus boddarti* is widely distributed in the tidal rivers and their creeks, estuaries and the coastal beaches in the southern Bangladesh. No evidences are found on its population declination and there is no known widespread threat to the species which could affect its population in near future. Therefore, the species is considered Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: The taxon has been assessed as Not Threatened (NO) earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in India to New Guinea and north to southern China (Rainboth 1996), and also in Persian Gulf (Wright 1988)

Bangladesh: The species inhabits intertidal waters and estuaries of the country (Rahman 2005) and has been reported particularly from Muhuri Irrigation Project and its surrounding areas (Haroon *et al.* 1989), Maheshkhali channel (Sanaullah and Chowdhury 1992) and the Sundarbans (Mustafa and Graaf 2008)

EOO: 55,051 km²

AOO: 18,951 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on total population of the species is not currently available.

Trend: Unknown.

Habitat and Ecology

The species inhabits the tidal rivers, estuaries and seas. It is an intertidal dweller and air-breather, walk on land and rest in burrows and holes. The fish actively forages on mudflats and feeds on multicellular algae and worms. The fish is amphibious and most of the time walks on lands and mudflats, and cannot remain under water for prolonged period of time (Rahman and Chowdhury 2007). The fish is also migratory in habit. It is found in scattered schools when foraging.



Assessor: Syeda Ismat Ara

Associate Assessor/s: Mohammad Ali Azadi

Gobiopterus chuno

Species ID: FI0035



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Gobiopterus chuno* (Hamilton, 1822)

English Name: Glass Goby

Bengali Name: Chuna Bele

Synonym/s: *Gobius chuno* Hamilton, 1822

Micrapocryptes fragilis Hora, 1923

Gobiella pellucid Smith, 1931

Gobiopterus chuno Smith, 1945

Taxonomic Notes: None



Gobiopterus chuno

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Gobiopterus chuno* is widely distributed in the estuaries and tidal rivers, and reported to be fairly common in Dakatia and Meghna Rivers (Rahman 2005). The estimated Extent of Occurrence and Area of Occupancy are above the upper limits for Vulnerable Category. In the absence of any major threat, the species is considered as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: The taxon has been considered Not Threatened (NO) earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: The taxon is reported from Bangladesh, Chao

Phraya basins, India, Sumatra of Indonesia, Malay Peninsula, Mekong River of Indo-China, Myanmar and Singapore. (Khan 2007)

Bangladesh: It occurs in Dakatia and Meghna Rivers (Rahman 2005), Muhuri Irrigation Project and its surrounding areas (Haroon *et al.* 1989), Feni River (Halder *et al.* 1991). The fish is also reported to be found in other coastal districts of Bangladesh.

EOO: 78,485 km²

AOO: 8,647 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on total population of the fish is not available. However, the species is fairly common in rainy season in Dakatia and Meghna Rivers (Rahman 2005).

Trend: Information on the population trend of the species is not currently available.

Habitat and Ecology

Gobiopterus chuno inhabits fresh and brackish waters of estuaries and lower courses of tidal rivers and also enters into swamps. It is a bottom dwelling amphidromous species, carnivore in nature and feeds mainly on zooplanktons (Khan 2007).



Assessor: Syeda Ismat Ara

Associate Assessor/s: Mohammad Ali Azadi

Parapocryptes batoides

Species ID: FI0216

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Parapocryptes batoides* (Day, 1876)

English Name: Gobi, Mudskipper

Bengali Name: Dali Chewa, Chiring

Synonym/s: *Apocryptes bata* (Hamilton, 1822)

Gobius bato Hamilton, 1822

Apocryptes batoides Day, 1876

Taxonomic Notes: It needs more study to differentiate *Parapocryptes batoides* from *Apocryptes bata*. It might be a species complex.



Parapocryptes batoides

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least concern (LC) ver 3.1

Justification: This species is widely distributed in the coastal tidal rivers, mangrove ecosystems, and estuaries of Bangladesh. There is no evidence of decline in population and extreme fluctuation of Extent of Occurrence and Area of Occupancy. Due to wide distribution and without any known major widespread threats, the species is considered as Least Concern.

Date Assessed: 20 March 2015

History

Regional Status: This taxon has not yet been assessed in Bangladesh.

Geographic Range

Global: Indian Ocean: India, Bangladesh and Myanmar (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It is found in estuaries and rivers (Ahmed 1991, Rahman 2005), Dakatia and Meghna Rivers (Rahman 2005), Sundarban (Alom and Mowgli 2013) and tidal rivers of Patuakhali (Mohsin *et al.* 2014).

EOO: 20,072 km²

AOO: 4,607 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is omnivorous and burrows within tidal limits of river deltas. It occurs in muddy bottoms of tidal rivers and mangroves.



Assessor: Mohammad Ali Azadi

Periophthalmodon schlosseri

Species ID: FI0217



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Periophthalmodon schlosseri* (Pallas, 1770)

English Name: Giant Mudskipper

Bengali Name: Dahuk

Synonym/s: *Gobius schlosseri* Pallas, 1770

Periophthalmus schlosseri Bloch & Schneider, 1801

Periophthalmus ruber Bloch & Schneider, 1801

Periophthalmus phya Johnstone, 1903

Periophthalmodon schlosseri argentiventralis

Eggert, 1935

Periophthalmodon Schlosseri Koumans, 1941

Taxonomic Notes: None



Periophthalmodon schlosseri

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least concern (LC) ver 3.1

Justification: *Periophthalmodon schlosseri* is widely distributed in the mudflats of the tidal rivers, mangrove ecosystems and estuaries in Bangladesh. There is no evidence of decline in population and extreme fluctuation of Extent of Occurrence and Area of Occupancy. Data are not available on its population trend, number of mature individuals and its decline. Due to its distribution and without any known major widespread threats, the species is considered as Least Concern.

Date Assessed: 20 March 2015

History

Regional Status: The species was not assessed earlier in Bangladesh.

Geographic Range

Global: It is found in Australia, Bangladesh, Cambodia, India, Indonesia, Malaysia, the Philippines, Seychelles, Thailand, Singapore, and Vietnam (Weber and Beaufort 1953, Talwar and Jhingran 1991, Rainboth 1996, Rahman 2005).

Bangladesh: The fish occurs in intertidal zone of the coast and almost all the lower reaches of tidal rivers, Halda, Karnaphuli, Sangu, Sikalbaha, Chandkhali, Bakkhali, Naf Rivers and in creeks of Sundarbans. (Ahmed 1991, Rahman 2005, Saha 2012, Azadi and Arshad-UI Alam 2013 and pers. obs.)

EOO: 85,517 km²

AOO: 13,235 km²

Population

Generation Time (Length): Unknown.

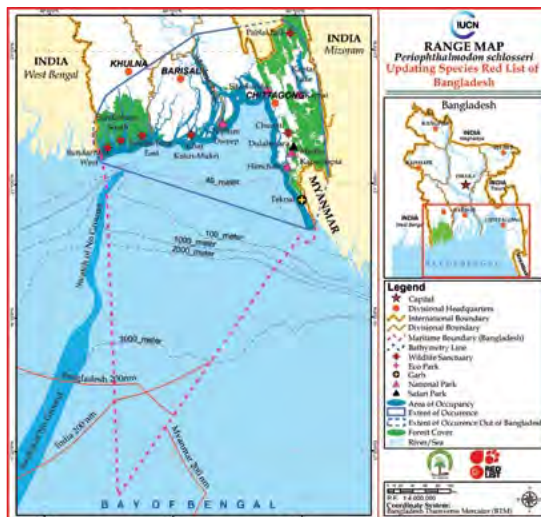
Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is carnivorous, hunting mainly on arthropods (insects and crustaceans). It may even eat smaller mudskippers. During low tide it is found on open mudflats of river banks, along mangrove forests marine fringes, creeks, always in the water's edge or in the large pools of their burrows in the soft mud. It spends an appreciable time out of water in basking or 'mud-walking'. Large birds, like storks and herons feed on it. In the bank of River Naaf Long-tailed or Crab-eating Macaque eat this fish too (M. A. R. Khan pers. comm.).

Assessor: Mohammad Ali Azadi



Periophthalmus barbarous

Species ID: FI0218



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Periophthalmus barbarous* (Linnaeus, 1766)

English Name: Atlantic Mudskipper

Bengali Name: Dahuk

Synonym/s: *Gobius barbarus* Linnaeus, 1766

Gobius koelreuteri Pallas, 1770

Periophthalmus koelreuteri papilio Bloch & Schneider, 1801

Peiophthalmus erythronemus Guichenot, 1858

Taxonomic Notes: None



Periophthalmus barbarous

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Periophthalmus barbarous* is widely distributed in the mudflats of tidal rivers, mangrove ecosystems and estuaries of Bangladesh. It is common in all its habitat ranges. Due to wide distribution and in the absence of major threats, the species is considered as Least Concern.

Date Assessed: 20 March 2015

History

Regional Status: This taxon has not yet been assessed in Bangladesh.

Geographic Range

Global: This species occurs throughout most of the west African coastline from Mauritania in the north southwards

as far as Angola, Bangladesh, Benin, Côte d'Ivoire, Cameroon, Congo, The Democratic Republic of the Congo, Gabon, Ghana, Gambia, India, Philippines, Liberia, Morocco, Nigeria, Sierra Leone, Senegal and Togo (Ahmed 1991, Harrison *et al.* 2003).

Bangladesh: It occurs in intertidal mudflats of the Sundarbans mangrove swamps and brackish waters of Bangladesh (Ahmed 1991, pers. obs.)

EOO: 72,355 km²

AOO: 12,710 km²

Population

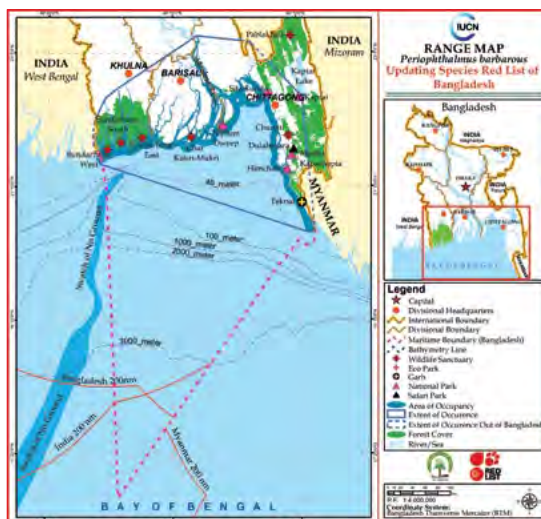
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is omnivorous in habit, feeds on algae, macrophytes, arthropods (mainly insects and crabs), nematodes, bivalves and fishes. This species forages more actively during the breeding time in the dry season (King and Udo 1998). *P. barbarous* inhabits muddy substrates and in brackish waters of estuaries, lagoons and mangrove swamps. It is an amphibious air-breather and skips or walks on sand or mud in search of food usually during low tide (Martin *et al.* 1999).



Assessor: Mohammad Ali Azadi

Periophthalmus koelreuteri

Species ID: FI0219

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Periophthalmus koelreuteri* (Pallas, 1770)

English Name: Mudskipper

Bengali Name: Dahuk

Synonym/s: *Gobius koelreuteri* Pallas, 1770

Periophthalmus koelreuteri Day, 1878

Periophthalmus koelreuteri africanus Eggert, 1935

Periophthalmus koelreuteri koelreuteri Eggert, 1935

Periophthalmus koelreuteri albostriatum Eggert, 1935

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Periophthalmus koelreuteri* is widely distributed in the mudflats of tidal rivers, mangrove ecosystems and estuaries in the Bay of Bengal part in Bangladesh. The Extent of Occurrence and Area of Occupancy are much higher than the threshold levels of Threatened Category. In the absence of having wide distribution and any known major widespread threat, the species has been assessed as Least Concern.

Date Assessed: 20 March 2015

History

Regional Status: The taxon has not yet been assessed in Bangladesh.



Periophthalmus koelreuteri

© Mostafa A R Hossain

Geographic Range

Global: It is found in Indo-west Pacific, including Bangladesh, India (Talwar and Jhingran 2001, Harrison *et al.* 2003, Rahman 2005).

Bangladesh: This species occurs in intertidal sand or mudflats of the Sundarbans mangrove swamps, estuaries and the bay areas (Rahman 2005, pers. obs.)

EOO: 72,359 km²

AOO: 16,793 km²

Population

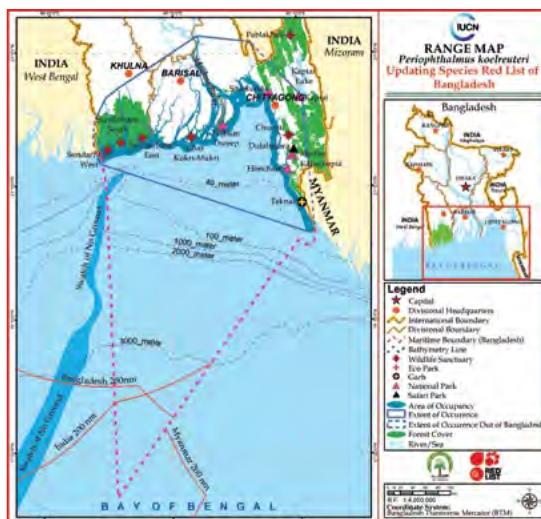
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is carnivorous and feeds mainly on arthropods (Harrison *et al.* 2003). As an amphibious fish it lives in intertidal zone, mudflats of tidal river banks and mangrove forests (Miller 1981).



Assessor: Mohammad Ali Azadi

Pseudapocryptes elongatus

Species ID: FI0220

LEAST CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Pseudapocryptes elongatus* (Cuvier, 1816)

English Name: Lanceolate Goby, Goby, Mudskipper

Bengali Name: Chiring, Jaid Chirring, Chewa

Synonym/s: *Apocryptes dentatus* Valenciennes, 1837

Apocryptes lanceolatus (Bloch & Schneider, 1801)

Aprocryptodon edwardi Fowler, 1937

Boleophthalmus taylori Fowler, 1934

Eleotris lanceolata Bloch & Schneider, 1801

Gobius changua Hamilton, 1822

Gobius elongatus Cuvier, 1816

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: The fish has large Extent of Occurrence and Area of Occupancy. Because of its wide distribution, and without any known major widespread threat, the species is assessed as Least Concern.

Date Assessed: 25 February 2015

History

Regional Status: It was not assessed in Bangladesh.

Geographic Range

Global: The fish is distributed from India to Tahiti and north to China, Bangladesh, Cambodia, China, India, Indonesia, Japan, Malaysia, Singapore, Taiwan, Thailand and Viet Nam (Talwar and Jhingran 1991, Rainboth 1996, Rahman 2005).



Pseudapocryptes elongatus

© Balam Mahalder

Bangladesh: The species occurs in estuaries, coastal and tidal freshwater rivers and creeks of Cox's Bazar, Chittagong, Bhola, Noakhali, Barisal, Patuakhali, Bagerhat, Khulna and Satkhira. It is also reported from inshore islands of Moheskhali, Kutubdia, Sandwip and Hatia. Mangroves of Chakaria Sundarban and Khulna Sundarbans (Rahman 2005, Hossain *et al.* 2007, Azadi and Arshad-ul-Alam 2013, 2014, Hossain 2013 and pers. obs.).

EOO: 66,842 km²

AOO: 2,565 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is an amphibious air-breather, benthic omnivorous, prevalently feeding on phytoplankton (epibenthic diatoms, cyanobacteria) and small invertebrates, such as juvenile shrimps. It inhabits mudflats of estuaries and the freshwater tidal zone of rivers. It is amphidromous and found in mudflats of estuaries and the freshwater tidal rivers, mangrove creeks and small and muddy tidal inlets.



Assessor: Mohammad Ali Azadi

Scartelaos histophorus

Species ID: FI0221



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Scartelaos histophorus* (Valenciennes, 1837)

English Name: Walking goby

Bengali Name: Dahuk

Synonym/s: *Gobius viridis* Hamilton, 1822

Boleophthalmus viridis Day, 1878

Scartelaos viridis Koumans, 1953

Boleophthalmus histophorus Valenciennes, 1837

Boleophthalmus sinicus Valenciennes, 1837

Boleophthalmus chinensis Valenciennes, 1837

Boleophthalmus aucupatorius Richardson, 1845

Boleophthalmus campylostomus Richardson, 1846

Apocryptes macrophthalmus Castelnau, 1873

Gobiosoma guttulatum Macleay, 1878

Gobiosoma punctularum De Vis, 1884

Boleophthalmus novaeguineae Hase, 1914

Taxonomic Notes: None



Scartelaos histophorus

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This species is distributed in the Bay of Bengal shores, coastal mudflats, freshwater tidal rivers, mangrove ecosystems and estuaries within Bangladesh. Because of its wide distribution and in the absence of any known major threats, the species is considered as Least Concern.

Date Assessed: 25 February 2015

History

Regional Status: This taxon has not yet been assessed in Bangladesh.



Geographic Range

Global: It is found in Australia, Bangladesh, Cambodia, China, Hong Kong, India, Indonesia, Japan, Malaysia, Myanmar, Pakistan, Papua New Guinea, Philippines, Ryukyu Island, Singapore, Taiwan and Thailand (Rainboth 1996, Talwar and Jhingran 2001, Rahman 2005).

Bangladesh: It is found in tidal mud and sand along the Bay Shore, estuaries, swamps, marshy areas, tidal zone of freshwater rivers and mangroves of Cox's Bazar, Moheskhal, Chakraia, Hatia, Chittagong, Bhola, Noakhali, Barisal, Patuakhali, Bagerhat, Khulna and Satkhira. (Talwar and Jhingran 2001, Rahman 2005, Chandan *et al.* 2011, Ahsan *et al.* 2014 and pers. obs.).

EOO: 66,842 km²

AOO: 2,565 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

This fish is a benthic feeder, omnivorous consuming diatoms and small invertebrates (nematodes, ostracodes, copepods). During low tide it is found in mixed or mud tidal flats and in areas with different density of tide pools and structural elements (plant debris, mangrove pneumatophores, etc.). It, moves (jumps) on the mud with the aid of pectoral fin. An intertidal species found on sand and mud flats along bay shores, estuarine areas, swamps, marshy areas and on tidal mud flats (Martin and Bridges 1999).

Assessor: Mohammad Ali Azadi

Stigmatogobius sadanundio

Species ID: FI0222



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Stigmatogobius sadanundio* (Hamilton, 1822)

English Name: Knight Goby

Bengali Name: Baila

Synonym/s: *Gobius sadanundio* Hamilton, 1822

Gobius apogonius Cantor, 1849

Taxonomic Notes: None



Stigmatogobius sadanundio

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Stigmatogobius sadanundio* is one of the rarely caught gobiid in coastal water tidal rivers of Bangladesh. Its Extent of Occurrence is 75823.69 km² followed by having Area of Occupancy 12335.40 km². In addition to this, there is no record to support that the species is severely fragmented or the number of location is less than 10. As a widely distributed species with no known major threats this taxon is assessed as Least Concern.

Date Assessed: 25 February 2015

History

Regional Status: The taxon has been assessed as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India, Sri Lanka and the Andamans to Singapore and Indonesia (Talwar and Jhingran 1991, Rahman 2007).

Bangladesh: It inhabits estuaries and freshwater rivers far above the tidal influence. Abundant in the lower Padma River, lower Meghna River, Rupsha River, Sibsha River, Bishkhal River, Tetulia River, Arial Kha River, Galachipa River, Pyra River and a few other rivers in the coastal region of Bangladesh (Rahman 2007).

EEO: 75,824 km²

AOO: 12,335 km²

Population

Generation Time (Length): Life-span of this species has been recorded up to 2–4 years (Milton 2009).

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is amphidromous and feeds on small fishes and invertebrates, including mosquito larvae. It occurs in estuaries and tidal zone of rivers. However, it is also found in freshwater habitats (Rahman 2007).



Assessor: Gawsia Wahidunnessa Chowdhury

Odontamblyopus rubicundus

Species ID: FI0223

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Odontamblyopus rubicundus* (Hamilton, 1822)

English Name: Rubicundus Eelgoby

Bengali Name: Lal Chewa

Synonym/s: *Gobioides rubicundus* Hamilton, 1822
Amblyopus mayenna Valenciennes, 1837
Amblyopus taenia Günther, 1861

Taxonomic Notes: None



Odontamblyopus rubicundus

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This is a widespread species in coastal waters, estuaries and tidal rivers of Bangladesh. There are no identified major threats to the species. Its Extent of Occurrence is about 75,823 km² and Area of Occupancy about 12,183 km². These are greater than the threshold of any Threatened Category. No data has been recorded on its population reduction. Therefore, this species has been assessed as Least Concern.

Date Assessed: 19 December 2014

History

Regional Status: This species has not yet been assessed for IUCN Red List.

Geographic Range

Global: It is found in Indo-Pacific: including Bangladesh, India and Myanmar (Talwar and Jhingran 1991, Alam 2007).

Bangladesh: It inhabits estuarine and tidal rivers throughout Bangladesh (Rahman 2005). Frequently wriggles along the mud in the mouth of the tidal rivers during low tide (Alam 2007).

EOO: 75,824 km²

AOO: 12,335 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is an amphidromous species, feeds on the bottom detritus, chironomid larvae and worms. It inhabits estuaries and tidal rivers and also prefers the hollows beneath tide pools in the near shore areas (Alam 2007, Alam *et al.* 2013).



Assessor: Gawsia Wahidunnessa Chowdhury

Taenioides buchanani

Species ID: FI0224

LEAST CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Taenioides buchanani* (Day, 1873)

English Name: Burmese Gobyeel

Bengali Name: Raja Chewa

Synonym/s: *Amblyopus buchanani* Day, 1873

Gobioides buchanani Day, 1878

Taenioides buchanani Koumans, 1953.

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Taenioides buchanani* is a widespread species in coastal rivers and estuaries of Bangladesh. It is unlikely to have potential threats to reduce the population of this species in near future and no threat has yet been reported. The Extent of Occurrence (42,296.76 km²) and Area of Occupancy (6,895.59km²) are fairly large that indicate its expanded distribution in all habitats. Therefore, *T. buchanani* has been assessed as Least Concern.

Date Assessed: 15 December 2014

History

Regional Status: Not evaluated earlier in Bangladesh.

Geographic Range

Global: Bangladesh, India and Myanmar (Talwar and Jhingran 1991, Rahman and Chowdhury 2007).



Taenioides buchanani

© Mostafa A R Hossain

Bangladesh: It is found in estuaries and muddy marine areas along the coastal parts of the Bay of Bengal in Bangladesh (Rahman 2005).

EOO: 42,297 km²

AOO: 6,896 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is a carnivorous species, feeding upon amphipods, mysid shrimp and small fish. (Rahman and Chowdhury 2007). Inhabits rivers mouths and estuaries and coastal areas (Talwar and Jhingran 1991).



Assessor: Md. Mizanur Rahman

Taenioides cirratus

Species ID: FI0225

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Taenioides cirratus* (Blyth, 1860)

English Name: Bearded Worm Goby

Bengali Name: Chewa

Synonym/s: *Amblyopus cirratus* Blyth, 1860

Gobioides cirratus Day, 1878

Taenioides cirratus Koumans, 1953.

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Taenioides cirratus* is a common species in coastal rivers and estuaries of Bangladesh. It is unlikely to have potential threats to reduce the population of this species in near future and no threat has yet been identified. The Extent of Occurrence (68,331.45 km²) and Area of Occupancy (4,432.16 km²) are fairly large that are above the threshold level of any Threatened Category. Therefore, this species has been assessed as Least Concern.

Date Assessed: 15 December 2014

History

Regional Status: Not assessed earlier in Bangladesh.

Geographic Range

Global: It is found in Indo-Pacific: offshore islands of east Africa, India and Australia. Also reported from Bangladesh,



Taenioides cirratus

© IUCN/ Mohammed Noman

Japan, New Guinea and New Caledonia (Masuda *et al.* 1984, Talwar and Jhingran 1991, Marquet 1997, Rahman 2005).

Bangladesh: It occurs in the coastal rivers of the country, particularly reported from the Meghna and Dakatia Rivers near Chandpur (Rahman and Chowdhury 2007).

EOO: 68,331 km²

AOO: 4,432 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

The fish can live out of water for a considerable time by taking air into the branchial chambers. It feeds on crustaceans and other invertebrates as well as small fishes (Rahman and Chowdhury 2007). It inhabits coastal waters and estuaries (Talwar and Jhingran 1991).



Assessor: Md. Mizanur Rahman

Trypauchen vagina

Species ID: FI0226



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Trypauchen vagina* (Bloch & Schneider, 1801)

English Name: Burrowing Goby

Bengali Name: Sada Chewa

Synonym/s: *Gobioides ruber* Hamilton, 1822

Gobius vagina Bloch & Schneider, 1801

Trypauchen wakae Jordan & Snyder, 1901

Taxonomic Notes: None



Trypauchen vagina

© IUCN/ Mohammed Noman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Trypauchen vagina* is fairly common in estuaries, coastal areas including river mouths of Bangladesh. It is unlikely to have potential threats to reduce the population of this species in near future. The Extent of Occurrence (1,11,058.46 km²) and Area of Occupancy (97,440.03 km²) indicated its expanded distribution in all habitats. Therefore, this species has been assessed as Least Concern.

Date Assessed: 15 December 2014

History

Regional Status: This taxon has not yet been assessed for the IUCN Red List.

Geographic Range

Global: It occurs in Bangladesh, China, India, Indonesia, Kuwait, the Philippines, Taiwan, Myanmar, Singapore and

Thailand (Chen and Fang 1999, Rahman 2005, Larson and Lim 2005).

Bangladesh: This fish is fairly common in the coastal waters and estuaries and tidal rivers along the the Bay of Bengal in Bangladesh (Rahman 2005).

EOO: 1,11,058 km²

AOO: 97,440 km²

Population

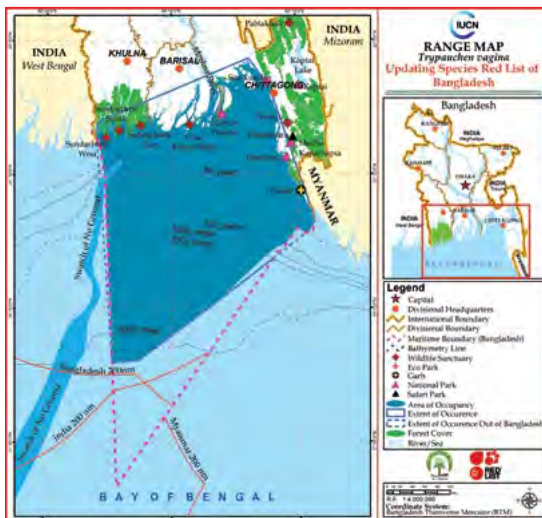
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is an omnivorous benthic feeder. *T. vagina* inhabits estuarine and coastal areas including river mouths. It burrows in silty mud (Chen and Fang 1999).



Assessor: Md. Mizanur Rahman

Pseudosphromenus cupanus

Species ID: FI0232



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	OSPHRONEMIDAE

Scientific Name: *Pseudosphromenus cupanus* (Cuvier, 1831)

English Name: Spiketail Paradisefish, Red eyed Spiketail Paradise Fish

Bengali Name: Koi Bandi

Synonym/s: *Polyacanthus cupanus* Cuvier, 1831

Macropodus cupanus Hora & Law, 1941

Pseudosphromenus cupanus Pethiyagoda, 1991

Taxonomic Notes: None



Pseudosphromenus cupanus

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Pseudosphromenus cupanus* occurs in ponds, ditches, paddy fields and shallow stagnant waters in small numbers. It has fairly large Extent of Occurrence and Area of Occupancy and there is no known major widespread threat to the fish. So, *P. cupanus* is assessed as Least Concern.

Date Assessed: 20 January 2015

History

Regional Status: It was considered as Threatened in Red List (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India, Indonesia, Malay Peninsula, Myanmar and Sri Lanka (Rahman 2005, Jayaram 2010).

Bangladesh: It occurs in ponds, ditches, paddy fields and shallow stagnant waters and rarely in estuarine area of Bangladesh (Rahman 2005).

EOO: 2,17,468 km²

AOO: 11,857 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It feeds on insects and zooplankton. Builds a bubble nest. Male gathers the eggs in its mouth and spits them into the nest, sometimes female assist. Eggs hatch in a day. Male guards the nest and the young until they reach the free-swimming stage, which is about a week later. Male has also been observed building more than one bubble nest and moves the eggs from one nest to the other (Pethiyagoda 1991). It inhabits freshwater ponds, ditches, paddy fields and shallow water not far from tidal influence (Rahman 2005). It is benthopelagic and prefers stagnant or slow-flowing water with thick vegetation such as grasses, roots and floating plants.



Assessor: Md. Sagir Ahmed

Trichogaster fasciata

Species ID: FI0233

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	OSPHRONEMIDAE

Scientific Name: *Trichogaster fasciata* Bloch & Schneider, 1801
English Name: Banded Gourami, Striped Gourami, Giant Gourami
Bengali Name: Khailsha, Khoila, Cheli, Khoira
Synonym/s: *Trichogaster fasciatus* Bloch & Schneider, 1801
Colisa fasciata Sterba, 1962
Trichopodus colisa Hamilton, 1822
Trichopodus bejens Hamilton, 1822
Trichopodus cotra Hamilton, 1822
Colisa vulgaris Cuvier, 1832

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Trichogaster fasciata* occurs in all kinds of freshwater habitats throughout Bangladesh. Along with other species its population has been known to have declined to some extent but due to quite large Extent of Occurrence and Area of Occupancy measuring 1,83,565.72 km² and 38,357.69 km² respectively, *T. fasciata* is assessed as Least Concern.

Date Assessed: 20 January 2015

History

Regional Status: It was considered as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India, Myanmar, Nepal



Trichogaster fasciata

© Md. Mizanur Rahman

and Pakistan (Welcomme 1988, Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It inhabits all kinds of freshwater habitats (river, haor, baor, beel, ponds, ditches, canals, etc.) throughout Bangladesh (Rahman 2005).

EOO: 1,83,566 km²

AOO: 38,358 km²

Population

Generation Time (Length): Unknown.

Total Population: There is no information on the total population and its trends for this species.

Trend: Unknown.

Habitat and Ecology

It is omnivorous, prefers to feed on insect larvae in dense shallow aquatic vegetations. It breeds several times in a year in stagnant water of paddy fields during monsoon. A rather shy species, it is easily bred and adapts well to life in community aquaria. It is a very hardy species. Found to inhabit transparent, shallow stagnant waters, including haor, baor, beel, ponds, ditches, canals, rice fields and floodplains (Rahman 2005, Ahmed and Akhter 2008).



Assessor: Md. Sagir Ahmed

Trichogaster labiosus

Species ID: FI0234

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	OSPHRONEMIDAE

Scientific Name: *Trichogaster labiosus* Day, 1877

English Name: Thick-lipped Gourami

Bengali Name: Khalisha

Synonym/s: *Colisa labiosa* (Day, 1877)

Taxonomic Notes: The species might be confused with the other species under the genus *Trichogaster* (Vishwanath 2010).

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Trichogaster labiosus* has been reported to be found in the freshwater rivers and all other wetlands of Bangladesh (Hossain *et al.* 2012). However, detailed study is required to understand the local distribution range and status. Considering the relevant species under the same genus, this species can be considered as one of the most commonly caught species in the freshwater rivers of Bangladesh. The Extent of Occurrence is 2,16,184.01 km², followed by having Area of Occupancy as 9,197.33 km². Therefore, *T. labiosus* is assessed as Least Concern.

Date Assessed: 19 January 2015

History

Regional Status: The taxon has not yet been assessed as threatened species globally.

Geographic Range

Global: This species is known from northeast India only



Trichogaster labiosus

© Mostafa A R Hossain

from the Chindwin drainage, Manipur, and from Myanmar (Vishwanath 2010) and from Bangladesh (Hossain *et al.* 2012).

Bangladesh: It inhabits in the freshwater rivers and all other wetlands in all over Bangladesh (Hossain *et al.* 2012).

EOO: 2,16,184 km²

AOO: 9,197 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is benthic-pelagic, generally feeds on aquatic plants and insects (Rahman and Chowdhury 2007). Most specimens have been recorded from the freshwater rivers (Hossain *et al.* 2012). However, this species can be found in the ponds, irrigation channels and rice fields too (Vishwanath 2010).



Assessor: Gawsia Wahidunnessa Chowdhury

Trichogaster lalius

Species ID: FI0235

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	OSPHRONEMIDAE

Scientific Name: *Trichogaster lalius* (Hamilton, 1822)

English Name: Dwarf Gourami, Red Gourami

Bengali Name: Baicha, Lal Khailsha, Ranga khailsha

Synonym/s: *Trichopodus lalius* Hamilton, 1822

Colisa unicolor Cuvier, 1831

Trichogaster lalius Day, 1878

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Trichogaster lalius* is very common in fish catches from all types of freshwater habitats throughout Bangladesh. As a widespread species with no significant threats across its range and having very large Extent of Occurrence and Area of Occupancy, *T. lalius* is assessed as Least Concern.

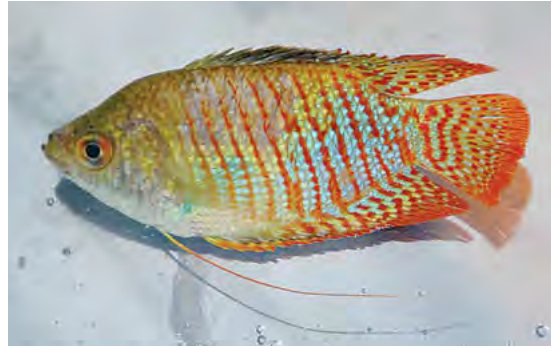
Date Assessed: 20 January 2015

History

Regional Status: It was considered as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India, Myanmar, Nepal and Pakistan (Welcomme 1988, Rahman 2005).



Trichogaster lalius

© Md. Mizanur Rahman

Bangladesh: It lives in all kinds of freshwater habitats such as rivers, haors, baors, beels, ponds, ditches, canals, etc. throughout Bangladesh (Rahman 2005).

EOO: 1,83,566 km²

AOO: 38,358 km²

Population

Generation Time (Length): Unknown.

Total Population: There is no information on the total population and its population trend for this species.

Trend: Unknown.

Habitat and Ecology

It is omnivorous, prefers to feed on insect larvae and some vegetable matters from dense shallow aquatic vegetation. It is known to breed several times a year in stagnant water of paddy fields during monsoon (Menon 1999). Male guards the bubble-nest but eats the young after 2-3 days. Found to inhabit transparent, shallow stagnant waters, including rice fields and floodplains (Rahman 2005).



Assessor: Md. Sagir Ahmed

Ctenops nobilis

Species ID: FI0236

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	OSPHRONEMIDAE

Scientific Name: *Ctenops nobilis* McClelland, 1845

English Name: Indian Paradise Fish, Frail Gourami, Indian Gourami.

Bengali Name: Neftani, Napit Khaiisha, Napit khayra, Modhumaloti.

Synonym/s: *Osphronemus nobilis* Day, 1876
Ctenops nobilis Regan, 1909

Taxonomic Notes: None



Ctenops nobilis

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Ctenops nobilis* is widely distributed but found in small quantities in catch (pers. obs.). It is well above the Threatened Categories considering its large Area of Occupancy (6,216.36 km²) as well as Extent of Occurrence (1,04,137.95 km²). Though, there are some threats and decreasing tendency in some areas but no empirical information is available concerning population size, number of matured individual and its declination. Thus, the species is assessed as Least Concern.

Date Assessed: 20 January 2015

History

Regional Status: Considered as Endangered (IUCN Bangladesh 2000).

Geographic Range

Global: Assam, Bihar, Sikkim, West Bengal in India and in

Bangladesh (Talwar and Jhingran 1991, Wahab 2007).

Bangladesh: *Ctenops nobilis* is freshwater fish, distributed in rivers, canals, haors, baors, beels and pond of north-west, north-east, south-west and central regions of Bangladesh (Sobhan *et al.* 2012, Samad *et al.* 2013, Hossain *et al.* 2014).

EOO: 1,04,138 km²

AOO: 6,216 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is larvivorous, likes to stay and swim in surface water (Wahab 2007). It lives in freshwater rivers, canals, haors, baors, beels and ponds. In winter it usually sticks to the roots of the water hyacinth (Shafi and Quddus 2001). Primarily lives in river and canals as well as in connected haors, baors, beels and ponds.



Assessor: M. Kamrujjaman

Trichogaster chuna

Species ID: FI0237

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	OSPHRONEMIDAE

Scientific Name: *Trichogaster chuna* (Hamilton, 1822)

English Name: Honey Gourami, Dwarf Gourami, Sunset Gourami.

Bengali Name: Chuna khaiisha, Baicha, Baichi, Boicha.

Synonym/s: *Trichopodus chuna* Hamilton, 1822

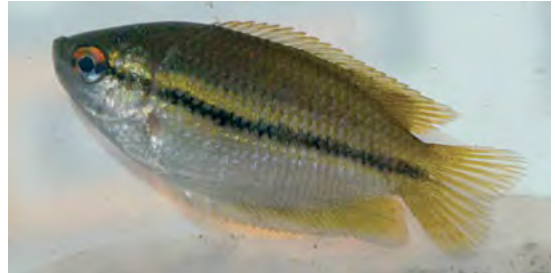
Trichopodus sota Hamilton, 1822

Trichogast chuna Day, 1878

Colisa chuna Qureshi, 1965

Colisa sota Menon, 1974

Taxonomic Notes: None



Trichogaster chuna

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Trichogaster chuna* is widely distributed in freshwater rivers, haors, baors, beels and ponds all over Bangladesh. The estimated Extent of Occurrence (1,14,271.90 km²) and Area of Occupancy (7,284.76 km²) is well above the Threatened Categories. The species is not severely fragmented and number of locations are numerous, no evidences are available on the continuing declination and extreme fluctuation of extent of occurrence and area of occupancy. Thus, the species is categorized as Least Concern.

Date Assessed: 15 January 2015

History

Regional Status: It was considered as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It occurs in the Gangetic provinces, Assam in India and in Bangladesh (Talwar and Jhingran 1991, Alam 2007).

Bangladesh: *Trichogaster chuna* is a freshwater fish, distributed widely in rivers, haors, baors, beels and ponds of the country (Rahman 2005, Hossain and Haque 2005).

EOO: 1,14,272 km²

AOO: 7,285 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is omnivorous in habit. Its males guard the bubble nests during breeding season (Alam 2007). It inhabits fresh water bodies with vegetation.



Assessor: M. Kamrujjaman

Trichopsis vittata

Species ID: FI0238



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	OSPHRONEMIDAE

Scientific Name: *Trichopsis vittata* (Cuvier, 1831)

English Name: Croaking Gourami

Bengali Name: Not Known

Synonym/s: *Osphronemus vittatus* Cuvier, 1831

Trichopis vittatus (Cuvier, 1831)

Taxonomic Notes: None



Trichopsis vittata

© Mostafa A R Hossain

Assessment Information:

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This species has been reported to be occurred in the freshwater rivers of Bangladesh (Hossain *et al.* 2012). The Extent of Occurrence is 2,16,184.01 km² and Area of Occupancy is 8,681.77 km². In the absence of major threats to its population and habitats and being widely distributed, *Trichopsis vittata* is assessed as Least Concern.

Date Assessed: 19 January 2015

History

Regional Status: The taxon has not been assessed in Bangladesh.

Geographic Range

Global: The species is widely distributed throughout mainland of Southeast Asia, Cambodia, Lao People's Democratic Republic, Malaysia (Peninsular Malaysia), Myanmar, Singapore Thailand and Viet Nam.

Bangladesh: This species has been recorded from the freshwater rivers of Bangladesh (Hossain *et al.* 2012).

EOO: 2,16,184 km²

AOO: 8,682 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Most specimens have been recorded from the freshwater rivers (Hossain *et al.* 2012).



Assessor: Gawsia Wahidunnessa Chowdhury

Polynemous paradiseus

Species ID: FI0215

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	POLYNEMIDAE

Scientific Name: *Polynemous paradiseus* Linnaeus, 1758

English Name: Paradise Threadfin

Bengali Name: Topshe, Taposi, Tapsi, Bairagi, Muni, Rishi

Synonym/s: *Polynemus aureus* Hamilton, 1822

Polynemus toposui Hamilton, 1822

Polynemus longifilis Cuvier, 1829

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This is a widespread species in southern coast of Bangladesh. There are no identified major threats to this species. Its Extent of Occurrence is about 75,823.69 km² and Area of Occupancy is about 12,335.40 km², both of which are greater than the threshold values of any Threatened Category and the sub-criteria of this section do not support any Threatened status. So, *Polynemous paradiseus* is assessed as Least Concern.

Date Assessed: 20 March 2015

History

Regional Status: The taxon has been assessed as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Mekong River, Arabian Sea, Bay of Bengal, Indian Ocean, Indonesian Seas, South China Sea



Polynemous paradiseus

© Balam Mahalder

and Pacific Ocean and Rivers and estuaries in Bangladesh (Alam 2007, Alam *et al.* 2013, Motomura *et al.* 2002).

Bangladesh: The species occurs in tidal rivers, estuaries and the Bay of Bengal in Bangladesh. It was recorded as abundant from the Meghna River near Chandpur and Hatiya (Alam 2007).

EEO: 75,824 km²

AOO: 12,335 km²

Population

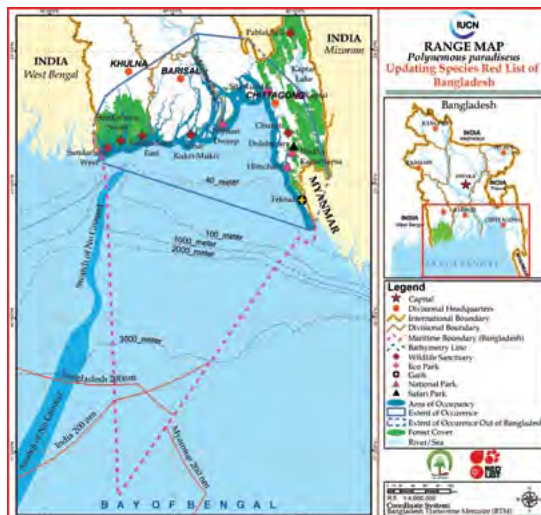
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It feeds on small fishes, crustaceans and other benthic organisms. This fish enters freshwater during the breeding season (Alam 2007). *P. paradiseus* usually breeds in the estuary during the rains. It is found in the freshwaters of the tidal zone as juveniles that moves to brackish water as sub-adults and finally as adults to river mouths and inshore areas (Mohsin 2007).



Assessor: Gawsia Wahidunnessa Chowdhury

Johnius coitor

Species ID: FI0205

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	SCIAENIDAE

Scientific Name: *Johnius coitor* (Hamilton, 1822)

English Name: Big-eyed Jewfish, Coitor Croaker, Ganges Croaker.

Bengali Name: Koitor, Koitor Poa, Decre Poa

Synonym/s: *Bola coitor* Hamilton, 1822

Sciaena coitor Day, 1878

Johnius coitor Talwar and Shetty, 1971

Taxonomic Notes: None



Johnius coitor

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Johnius coitor* is known to occur in shallow coastal areas, estuaries and all the tidal rivers in the southern regions of Bangladesh. Recent faunal survey, field visits and personal observation indicated that the species is common in commercial catches throughout its range of distribution. There is no known threat that might affect its population or habitats in near future. So, the species is assessed as Least Concern.

Date Assessed: 17 December 2014

History

Regional Status: It was considered as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Australia, Bangladesh, Brunei, Darussalam, India, Indonesia, Malaysia, Myanmar, Nepal,

Papua New Guinea, southward to Singapore and Borneo (Sasaki 2001).

Bangladesh: It is known to occur in shallow coastal areas, estuaries and all the tidal rivers in the southern regions of Bangladesh. Also reported from the Kaptai Lake, Halda River, upper reaches of the Meghna River, Sitalakshya River and Haors (Rahman and Farhana 2007).

EEO: 85,517 km²

AOO: 12,753 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

The species is a carnivorous and active predator, feeds generally on the crustaceans, fishes, mollusks and echinoderms. It is amphidromous. It refers shallow coastal areas to estuarine inter-tidal rivers and eventually found in fresh water large rivers. Primarily estuarine, secondarily migrate to large freshwater rivers for breeding.



Assessor: Md. Rafiqun Nabi

Otolithoides pama

Species ID: FI0207



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	SCIAENIDAE

Scientific Name: *Otolithoides pama* (Hamilton, 1822)

English Name: Pama Croaker, Pama

Bengali Name: Poa, Poma, Koi Bola, Bola.

Synonym/s: *Bola pama* Hamilton, 1822

Sciaenoides hardwickii Blyth, 1860

Sciaenoides pama Day, 1878

Pama pama Fowler, 1933.

Taxonomic Notes: None



Otolithoides pama

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Otolithoides pama* is widely distributed throughout the coastal region, including estuaries and tidal rivers of Bangladesh. It is the commonest species among other croakers available in the country and contributes significantly to in commercial catches. As a wide spread species with no known threat, it is assessed as Least Concern.

Date Assessed: 17 December 2014

History

Regional Status: It was considered as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Australia, Bangladesh, India, Indonesia, Malaysia, Myanmar, Pakistan, Papua New

Guinea, Sri Lanka and Thailand (Talwar and Jhingran 1991, Jawaram 1991, Alam 2007).

Bangladesh: The species occurs in southern estuaries areas of the Bay of Bengal and their inter-tidal rivers to far inland freshwater parts of these rivers and tributaries lying at the south-east, south-west and central to north-west parts of Bangladesh (Fawzia *et al.* 2013, Mohsin *et al.* 2013).

EOO: 1,38,366 km²

AOO: 13,915 km²

Population

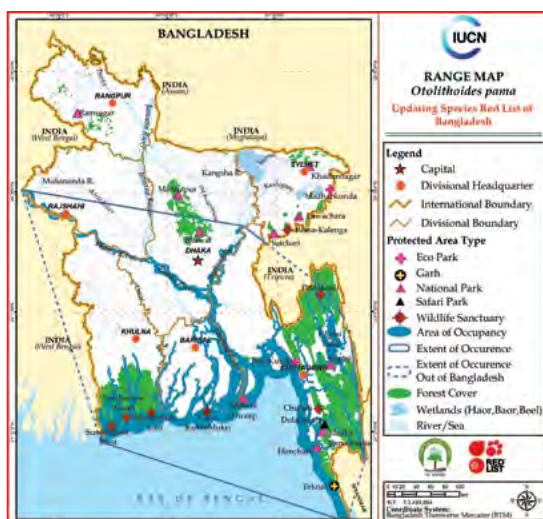
Generation Time (Length): Unknown.

Total Population: There is no information on the population and its trend for this species. The species is relatively common in the coastal fish catch in Bangladesh (Huda and Haque 2003, Nabi *et al.* 2011).

Trend: Unknown.

Habitat and Ecology

Planktivorous in habit, feeds on both phyto- and zooplankton throughout its life (Alam 2007). Amphidromous. Frequently visit within the estuary to inter-tidal brackish water parts of the rivers. Occasionally move to freshwater parts of these rivers and tributaries. Primarily estuary to all the brackish water inter-tidal rivers in southern region, while, in monsoon to post-monsoon seasons also reported in the central to north-western rivers of Bangladesh (Fawzia *et al.* 2013, Mohsin *et al.* 2013).



Assessor: Md. Rafiqun Nabi

Sillaginopsis panijus

Species ID: FI0204



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	SILLAGINIDAE

Scientific Name: *Sillaginopsis panijus* (Hamilton, 1822)

English Name: Hundra, Tulardandi

Bengali Name: Hundra, Tulardandi

Synonym/s: *Cheilodipterus panijus* Hamilton, 1822

Sillaginopsisdomina (Cuvier, 1829)

Sillago domina Cuvier, 1829

Taxonomic Notes: None



Sillaginopsis panijus

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Sillaginopsis panijus* is widely distributed in the coastal region of Bangladesh including estuaries and river mouths. As there is no known threat to this species and its Extent of Occurrence (46,413.83 km²) and Area of Occupancy (10,065.17 km²) are much higher than the threshold values for any Threatened Category, the species is assessed as Least Concern.

Date Assessed: 23 September 2014

History

Regional Status: Considered as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: The species is found in Bangladesh, India (south-west coast, Ganges delta and east coast), Myanmar, and Southwards to Malaysia, and rarely to the Indonesian Archipelagic (Rahman 2005, Talwar and Jhingran 1991).



Bangladesh: It occurs in coastal waters of the Bay of Bengal, estuaries and river mouths of Bangladesh.

EOO: 46,414 km²

AOO: 10,065 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown. In 2013 this species contributed about 1.44% of total catch in Khulna region (WorldFish-IPAC 2013).

Trend: Unknown.

Habitat and Ecology

It is predatory in habits and feeds on fish, crustaceans and algae. Probably spawns twice a year during the months November to February and August to September and the juveniles migrate toward the upper reaches during March and April and during December where they remain for two to three months. Tidal rivers, estuaries and coastal areas are the principal habitats for this species (Alam 2007). Demersal, adapted to muddy water conditions (Talwar and Jhingran 1991). Found in coastal waters of the Bay of Bengal to estuaries and tidal rivers of Bangladesh (Rahman 2005).

Assessor: Md. Golam Mustafa

Associate Assessor/s: Balaram Mahalder and Mohammad Ilyas

Cynoglossus cynoglossus

Species ID: FI0023

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PLEURONECTIFORMES	CYNOGLOSSIDAE

Scientific Name: *Cynoglossus cynoglossus* (Hamilton, 1822)

English Name: Bengal Tongue Sole, Gangetic Tongue-Sole, Indian Turbot, Tonguefish, Tonguesole

Bengali Name: Kukur Jeeb, Banspata

Synonym/s: *Achirus cynoglossus* Hamilton, 1822

Plagusia oxyrhynchus Bleeker, 1851

Plagusia bengalensis Bleeker, 1853

Plagusia sumatrana Bleeker, 1854

Cynoglossus buchhanani Day, 1870

Cynoglossus cynoglossus Day, 1878

Taxonomic Notes: None



Cynoglossus cynoglossus

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Cynoglossus cynoglossus* is widely distributed in the river mouths and the brackish water zones of the country and there is no major threats to the species. So, the *C. cynoglossus* has been assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: It was assessed as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: Besides the Bay of Bengal, its distribution is

reported from Malay Archipelago to the Philippines; in the Malacca Straits, Indonesia Sea, South China Sea and Gulf of Siam (Thailand) and westward to Myanmar, Bangladesh and India (West Bengal) to the Arabian Sea in Pakistan. (Rahman 1989, Rainboth 1996, Munroe 2001)

Bangladesh: It occurs in coastal areas, estuaries and tidal rivers.

EOO: 2,24,779 km²

AOO: 16,871 km²

Population

Generation Time (Length): Unknown.

Total Population Unknown.

Trend: Declining as per perception of local fishers.

Habitat and Ecology

It inhabits muddy and sandy bottoms of the continental shelf. Often lives in shallow areas, including rivers, estuaries and brackish waters (Rahman 1989). This Tongue Sole feeds mostly on bottom-living invertebrates. It breeds off-shore, produce pelagic, and non-adhesive eggs (Rainboth 1996). As a demersal species it has the habit of hiding its full body under sand or in the soft bottom keeping eyes outside to capture prey wandering to its peripheral areas.



Assessor: Md. Golam Mustafa

Associate Assessor/s: Balam Mahalder and Mohammad Ilyas

Cynoglossus lingua

Species ID: FI0024

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PLEURONECTIFORMES	CYNOGLOSSIDAE

Scientific Name: *Cynoglossus lingua* Hamilton, 1822

English Name: Long Tongue Sole

Bengali Name: Kukur Jeeb, Banspata

Synonym/s: *Achirus cynoglossus* Hamilton, 1822

Plagusia oxyrhynchus Bleeker, 1851

Pleuronectes potous Cuvier, 1829

Plagusia macrorhynchus Bleeker, 1851

Cynoglossus acinaces Jenkins, 1910

Taxonomic Notes: None



Cynoglossus lingua

© Baram Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Cynoglossus lingua* is widely distributed in the Bay of Bengal, coastal region, estuaries and tidal rivers of Bangladesh. The species is common in commercial catches and no major known threat is reported. Thus, *C. lingua* has been assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: The species has been assessed as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: This fish is found in Malay Archipelago, including Thailand, Viet Nam, the Philippines and Indonesia westward to seas and estuaries of India, Bangladesh and

Pakistan to the Red Sea. (Rahman 1989, Rainboth 1996, Munroe 2001).

Bangladesh: It occurs in the Bay of Bengal, estuaries, Sundarbans and tidal rivers of Bangladesh.

EOO: 3,38,768 km²

AOO: 1,23,738 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Declining.

Habitat and Ecology

This Tongue Sole is found in marine and brackish waters. Adults live mainly in shallow muddy and sandy bottoms of the continental shelf, sometimes entering into estuaries and tidal rivers (Rahman 1989). It is an amphidromous species and feeds mainly on the benthic invertebrates (Rahman and Ruma 2007). It has the habit of hiding its full body under sand or in the soft bottom keeping eyes outside to capture prey wandering to its peripheral areas (Rahman 2005).



Assessor: Md. Golam Mustafa

Associate Assessor/s: Baram Mahalder and Mohammad Ilyas

Cynoglossus arel

Species ID: FI0037

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PLEURONECTFORMES	CYNOGLOSSIDAE

Scientific Name: *Cynoglossus arel* (Bloch & Schneider, 1801)

English Name: Largescale Tonguesole

Bengali Name: Kukur Jeeb

Synonym/s: *Pleuronectes arel* Bloch & Schneider, 1801

Cynoglossus macrolepidus Bleeker, 1851

Cynoglossus arel Day, 1878

Taxonomic Notes: None



Cynoglossus arel

© Md. Sagir Ahmed

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Cynoglossus arel* is reported from the entire coastal and brackish waters of Bangladesh. There is no report on the reduction in its habitats or on its population decline. Considering the above and in the absence of any known widespread threats, the species is assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: The taxon has been considered Not Threatened (NO) in Bangladesh (IUCN Bangladesh 2000)

Geographic Range

Global: Besides the Bay of Bengal, its distribution has been reported from the Persian Gulf to Sri Lanka, eastward to Indonesia, Southern China, Taiwan, Thailand, the Philippines and Southern Japan. (Hossain and Sultana 2007).

Bangladesh: This fish is found in the continental shelf of the Bay of Bengal, the estuaries and coastal rivers in Bangladesh. Its occurrences were particularly reported from Satkhira, Khulna, Bagerhat, Barisal, Narail, Patuakhali regions and also from Halda River in Chittagong. (Hossain and Sultana 2007)

EOO: 16,759 km²

AOO: 3,198 km²

Population

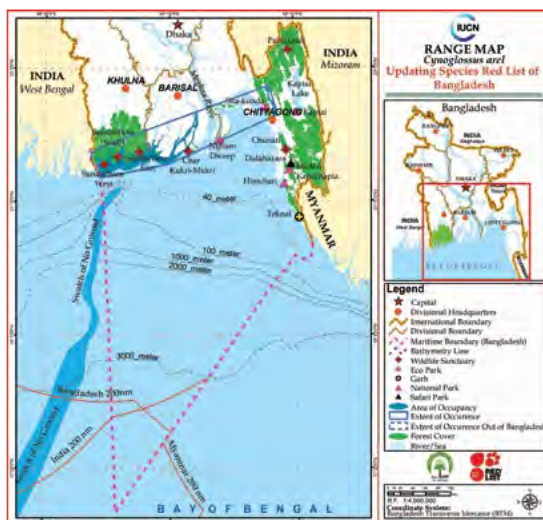
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: No information is available on its population trend.

Habitat and Ecology

The species inhabits marine and brackish waters, also enters estuaries and tidal rivers (Rahman 2005). It is a bottom-dweller. The species is amphidromous and euryhaline in nature and has the habit of hiding its full body under sand or soft bottom, keeping the eyes outside to capture prey wandering in its vicinity. It feeds predominantly on the bottom-living invertebrates and small fishes (Hossain and Sultana 2007).



Assessor: Balaram Mahalder

Associate Assessor/s: Md. Golam Mustafa.

Paraplagusia bilineata

Species ID: FI0038

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PLEURONECTFORMES	CYNOGLOSSIDAE

Scientific Name: *Paraplagusia bilineata* (Bloch, 1784)

English Name: Fingerlip Tonguesole, Doublelined Tonguesole, Lemon Tonguesole

Bengali Name: Kukur Jeeb

Synonym/s: *Pleuronectes bilineata* Bloch, 1784
Paraplagusia bilineata (Bloch, 1787)
Pleuronectes bilineatus (Bloch, 1787)
Plagusia bilineata (Bloch, 1787)
Paraplagusia bilineatus (Bloch, 1787)
Pleuronectes bilineata Bloch, 1787
Plagusia dipterygia (Rüppell, 1830)
Plagusia dypterygia (Rüppell, 1830)
Plagusia marmorata (Bleeker, 1851)
Paraplagusia bilineata Munro 1955

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Paraplagusia bilineata* is widely distributed and relatively fairly common in coastal waters, estuaries and tidal rivers (Rahman 2005, Haque 2007). There is no report on its population decline or reduction in its habitats. In the absence of any known widespread threat, the species is considered as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: The species has been assessed as Not Threatened (NO) earlier in Bangladesh (IUCN Bangladesh 2000).



Paraplagusia bilineata

© Mostafa A R Hossain

Geographic Range

Global: The taxon is known to occur in Red Sea and east coast of Africa to the Philippines, north to southern Japan, south to New Guinea and northeastern Australia. Also found in the Bay of Bengal of Bangladesh, China, India and Myanmar (Haque 2007).

Bangladesh: The species is widely distributed in the coastal waters, estuaries and tidal rivers of Bangladesh (Rahman 2005) and it has also been found in the Halda River in Chittagong.

EOO: 1,68,664 km²

AOO: 1,18,981 km²

Population

Generation Time (Length): Unknown.

Total Population: The total population of the species is not known. However, it is fairly common in the Bay of Bengal, but not abundant anywhere else within its habitat ranges in the country (Haque 2007).

Trend: Information on its population trend is not available.

Habitat and Ecology

The species inhabits marine and coastal waters, often enters estuaries and tidal rivers (Haque 2007). It is a bottom dweller. The fish feeds predominantly on the bottom-living invertebrates. It swims by body movement and/or by the movement of the caudal fin.

Assessor: Balaram Mahalder

Associate Assessor/s: Md. Golam Mustafa

Platycephalus indicus

Specied ID: FI0198



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SCORPAENIFORMES	PLATYCEPHALIDAE

Scientific Name: *Platycephalus indicus* (Linnaeus, 1758)

English Name: Bar-tailed Flathead, Bartail Flathead, Flathead, Gobi, Indian Flathead, Indo-Pacific Flathead

Bengali Name: Mur Bailla

Synonym/s: *Callionymus indicus* Linnaeus, 1758
Cottus insidiator Forsskål, 1775
Cottus madagascariensis Lacepède, 1801
Platycephalus insidiator Forsskål, 1775

Taxonomic Notes: None



Platycephalus indicus

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Platycephalus indicus* is common in the estuaries and coastal waters of Bangladesh. There is no report on its population decline. In the absence of any major widespread threat, the fish is considered as Least Concern.

Date Assessed: 20 November 2014

History

Regional Status: This species has been considered as Data Deficient (DD) earlier in Bangladesh (UCN Bangladesh 2000).

Geographic Range

Global: *Platycephalus indicus* is recorded from across the Indo-West Pacific: Red Sea and East Africa to the

Philippines, north to southern Japan and Korea, and south to northern Australia. It has widespread distribution through the eastern Indian Ocean from the Bay of Bengal and the Gulf of Thailand, south to Northern Australia (Knapp 2010).

Bangladesh: *P. indicus* occurs in the Bay of Bengal and enters the rivers and estuaries of Khulna, Barisal and Patuakhali Districts (Rahman 2005). This species is common in the coastal areas of Bangladesh and particularly it has been reported from several places, such as the Sundarbans (Huda and Haque 2003), Teknaf coast (Hossain *et al.* 2008), Meghna estuary (Hossain *et al.* 2012) and Andharmanik River, Patuakhali (Mohsin *et al.* 2014).

EEO: 1,11,058 km²

AOO: 97,440 km²

Population

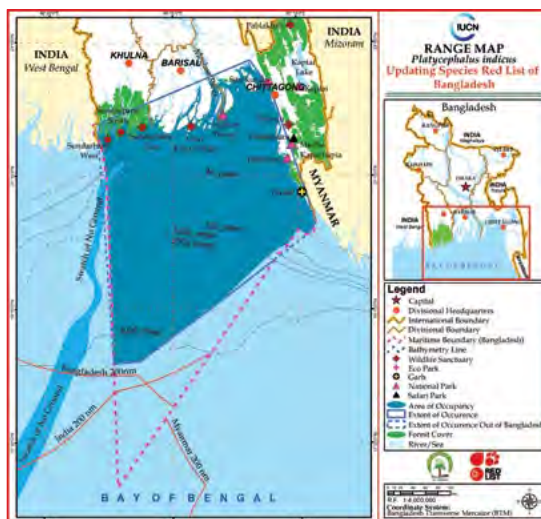
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

P. indicus inhabits marine, brackish and also freshwaters. Younger life stages use estuaries and freshwater habitats as nursery grounds (Knapp 2010). It is a benthic fish and stays on sand or mud bottoms (Talwar and Jhingran 1991, Knapp 2010), however, its eggs and larvae are pelagic. It is a carnivorous fish and feeds on small fishes and benthic crustaceans (CSIRO Marine and Atmospheric Research 2014). It can travel long distances and is an active forager and predator, using ambush method of attack. It breeds between July and November (Alam 2007).



Assessor: Md. Monirul Islam

Amblyceps mangois

Species ID: FI0159

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	AMBLYCIPITIDAE

Scientific Name: *Amblyceps mangois* (Hamilton, 1822)

English Name: Indian Torrent Catfish

Bengali Name: Chotta Shinghi

Synonym/s: *Pimelodus mangois* Hamilton, 1822

Pimelodus indicus McClelland, 1842

Amblyceps caecutiens Blyth, 1858

Amblyceps mangois Day, 1869

Olyra laticeps Hora, 1936

Taxonomic Notes: *A. mangois* differs from other species in having a relatively short body with 34-36 (versus 38-40) vertebrae and a caudal fin with upper and lower lobes of distinctly different shapes. Recently, its taxonomy has been confirmed through DNA barcoding of mitochondrial Cytochrome Oxidase I (COI) gene from the Tanguar haor (Ahmed *et al.* 2015).



Amblyceps mangois

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Amblyceps mangois* is widely distributed and common in its ranges though it is under threat due to loss of habitat quality. As it is a non-targeted fish for consumption, the potential threats are not identified for the significant decline of this species. The geographic ranges in the form of Extent of Occurrence and Area of Occurrence estimated much higher than the threshold for lowest Threatened Categories. Therefore, this species has been assessed as Least Concern.

Date Assessed: 15 October 2014

History

Regional Status: It was considered as Data Deficient (IUCN Bangladesh 2000).

Geographic Range

Global: *A. mangois* is found in Bangladesh, India (Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura, Uttar Pradesh, West Bengal), Nepal, Pakistan and Thailand (Rahman and Ruma 2007).

Bangladesh: The Dahuki River in Sylhet, Mahananda River in Panchagar, Jabanreswari River in Rangpur, Kangsha and Someswari Rivers in Netrokona are the ideal habitats for this species in Bangladesh (Rahman, 2005, Rahman and Ruma 2007). *A. mangois* is also reported from the Piyang and Sari River of Sylhet; Korotoa, Atrai and Mahananda Rivers of Northern region; Old Brahmaputra, Jamuna and the River Padma; Tanguar Haor of Sunamgonj (Ahmed *et al.* 2015). This species is has been found in lower reaches of Himchori hill streams of Cox's Bazar and Madhabkundo hill streams of Moulvibazar District (Rahman and Akhter 2007, Latifa *et al.* In Press).

EOO: 1,33,052 km²

AOO: 10,576 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Declining.

Habitat and Ecology

Predominantly hill stream fish, occurs in pebbly beds in swift currents at the base of hills. Also found among rocks and boulders on the bottom of fast flowing upland streams and rivers (Talwar and Jhingran 1991). It is carnivorous in habit and feeds on aquatic insects. It hides amongst the rocks and pebbles at the bottom of the streams. This species breeds in the summer.

Assessor: Md. Mizanur Rahman



Osteogeneiosus militaris

Species ID: FI0185

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	ARIIDAE

Scientific Name: *Osteogeneiosus militaris* (Linnaeus, 1758)

English Name: Soldier Catfish

Bengali Name: Apuia

Synonym/s: *Silurus militaris* Linnaeus, 1758

Arius militaris Valenciennes, 1840

Osteogeneiosus blochii Bleeker, 1846

Osteogeneiosus macrocephalus Bleeker, 1846

Osteogeneiosus stenocephalus Day, 1877

Taxonomic Notes: None.

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Osteogeneiosus militaris* occurs in the coastal waters of the Bay of Bengal, estuaries and tidal rivers of Bangladesh (Rahman 2005, Rahman and Chowdhury 2007, Dutta *et al.* 2012). The fish is considered less abundant but there is no information on its population decline. In the absence of any known major widespread threat to the fish, it is assessed as Least Concern.

Date Assessed: 21 August 2014

History

Regional Status: It has been considered as Not Threatened in Red List of IUCN Bangladesh 2000.

Geographic Range

Global: *O. militaris* has been recorded from the West coast of India to Bangladesh, Brunei Darussalam, Indonesia,



Osteogeneiosus militaris

© Mostafa A R Hossain

Malacca, Malaysia, Myanmar, Pakistan, Singapore, Sri Lanka and Thailand (Rahman and Chowdhury 2007).

Bangladesh: The fish occurs in estuaries and the Bay of Bengal and ascends tidal rivers (Rahman 2005). It was also recorded from Meghna River near Chandpur (Rahman 2005).

EOO: 74,038 km²

AOO: 12,328 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is a potamodromous, predaceous and carnivorous fish, feeds mainly on invertebrates and small fishes. This fish inhabits marine freshwater and brackish waters (Reide 2004). It also occurs in mangroves tidal creeks and occasionally found in freshwater rivers.



Assessor: Gawsia Wahidunnessa Chowdhury

Mystus bleekeri

Species ID: FI0142

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Mystus bleekeri* (Day, 1865)

English Name: Bleeker's Mystus, Day's Mystus

Bengali Name: Tengra, Golsha-Tengra, Gulsha Tengra

Synonym/s: *Bagrus keletius* Bleeker, 1846

Macrones bleekeri Day, 1877

Mystus bleekeri var. *burmanicus* Jenkins, 1910

Mystus bleekeri Shaw and Shebbeare, 1937

Mystus (Mystus) bleekeri Misra, 1976

Taxonomic Notes: None

Assessment Information:

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Mystus bleekeri* is assessed at Least Concern, because the species is still relatively widespread and the present level of exploitation is not deemed high enough to be a threat to long-term existence of this species. Simultaneously, the Extent of Occurrence, 1,35,013.68 km² and Area of Occupancy, 4,122.93 km² are far above the threshold for Vulnerable. Furthermore, no specific threats so far been identified as well no numerical data refer to continuing decline or extreme fluctuation in the mature individuals and their population size are available at the exploitation and marketing levels to justify any of the stated Threatened categories.

Date Assessed: 04 August 2014

History

Regional Status: It was considered as Not Threatened (IUCN Bangladesh 2000).



Mystus bleekeri

© Md. Mizanur Rahman

Geographic Range

Global: *Mystus bleekeri* is found all over the Asian countries like Bangladesh, Bhutan, India, Indonesia, Myanmar, Nepal, Pakistan, Sri Lanka and Sumatra in Indonesia (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It is found in freshwater rivers. From there it often moves into other connected natural water bodies laying in the north-west to north and south-eastern districts of Bangladesh with monsoon floodwaters. Occasionally, it ventures into estuarine waters (Rahman and Akhter 2007).

EEO: 1,35,014 km²

AOO: 4,123 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

The fish is potamodromous in habitat within rivers and connected natural water bodies of sandy to muddy bottom. It is preferably carnivorous in habit, feeds on insect larvae, zooplankton and small fishes but may take detritus to supplement natural foods and thereby help to control water pollution (Rahman and Akhter 2007).



Assessor: Md. Rafiqun Nabi

Mystus tengara

Species ID FI0145

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Mystus tengara* (Hamilton, 1822)

English Name: Tengara Catfish

Bengali Name: Bajari Tengra, Bujuri Tengra, Choto Tengra, Guitta Tengra

Synonym/s: *Pimelodus tengra* Hamilton, 1822

Macrones tengara Day, 1877

Bagrus tengara Cuvier & Valenciennes, 1840

Mystus carcio Drashan *et al.*, 2010

Taxonomic Notes: None



Mystus tengara

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Mystus tengara* is fairly common and widely distributed in all types of freshwater habitats throughout the country (Rahman 2005, Alam 2007). No potential threat is identified which can reduce its population in the near future. So, it is assessed as Least Concern.

Date Assessed: 19 March 2015

History

Regional Status: The fish was considered as Not Threatened (NO) (IUCN Bangladesh 2000).

Geographic Range

Global: *Mystus tengara* is found in Bangladesh, Pakistan, India and Nepal (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It inhabits river, haor, baor, beels, canals, streams and ponds all over the country.

EOO: 32,012 km²

AOO: 5,412 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Mystus tengara is found in weedy, sandy, muddy places of pools, streams, canals and river in the rainy season (Alam 2007). It feeds on insect larvae, earthworms, mollusks, crustaceans, algae, a little sands and mud.



Assessor: Selina Sultana

Associate Assessor/s: Mohammed Noman

Mystus vittatus

Species ID: FI0146

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Mystus vittatus* (Bloch, 1797)

English Name: Striped Dwarf Catfish, Asian Striped Catfish

Bengali Name: Tengra

Synonym/s: *Silurus vittatus* Bloch, 1797

Bagrus vittatus Jerdon, 1849

Macrones vittatus Day, 1878

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This is a widespread species in all freshwater habitats in Bangladesh. There are no identified major threats reported for this species. Its Extent of Occurrence (2,17,467.88 km²) and the Area of Occupancy (47,212.41 km²) are greater than the threshold value for any Threatened Category. No data has been recorded on the population reduction of this species. Therefore, this species has been assessed as Least Concern.

Date Assessed: 25 February 2015

History

Regional Status: This species has been assessed as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India and Myanmar (Talwar and Jhingran 1991, Alam 2007).



Mystus vittatus

© Md. Mizanur Rahman

Bangladesh: It inhabits estuarine and tidal rivers throughout Bangladesh (Rahman 2005, Ahmed 2008). Frequently wriggles along the mud in the mouth of the tidal rivers during low tide.

EOO: 2,17,468 km²

AOO: 47,212 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Mystus vittatus is mainly found in the flooded ponds, lakes, canals, beels, paddy and jute fields, streams and rivers of Bangladesh. It inhabits standing as well as flowing waters. Recorded from the marginal waters of lakes and swamps with mud substrate (Mohsin 2007).



Assessor: Gawsia Wahidunnessa Chowdhury

Rama chandramara

Species ID: FI0147



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Rama chandramara* (Hamilton, 1822)
English Name: Asian Cory, Golden Shadow Catfish, Hovering Catfish, Humming Bird Catfish
Bengali Name: Gura Tengra, Futki Bujurii, Bajaria Tengra
Synonym/s: *Pimelodus chandramara* Hamilton, 1822
Pimelodus rama Hamilton, 1822
Leiocassis rama Day, 1877
Rama rama Rossell, 1964
Chandramara chandramara Jayaram, 1972

Taxonomic Notes: This genus *Rama* has been revised several times on the basis of presence and absence of black dots on the body, shoulder spot translucent or not as well as size and extend of barbels. Thus, it needs further investigation.

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Rama chandramara* is common in freshwater ecosystem of the country and there is in no danger of habitat loss or population decline. So, it has been assessed as Least Concern.

Date Assessed: 27 August 2014

History

Regional Status: *Rama chandramara* was assessed Data Deficient (DD) (IUCN Bangladesh 2000).



Rama chandramara

© Mostafa A R Hossain

Geographic Range

Global: *Rama chandramara* is native in Bangladesh and India (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It is found in freshwater beels, baors, ditches, streams and canals of the Padma and Jamuna drainages in the north-east regions, upper and lower Meghna drainages in the north-west to central districts in Bangladesh (Mohsin 2007).

EOO: 2,17,468 km²

AOO: 11,857 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Rama chandramara is omnivorous in habit. It feeds on small organism like daphnia, cyclops, blood-worms, white-worms and decomposed matter. It inhabits beels, haors, baors, ditches, streams and canals with a sandy or muddy bottoms. In rainy season, it moves in to the swamps and flooded jute and paddy fields (Rahman 2005).



Assessor: Md. Rafiqun Nabi

Clarias batrachus

Species ID: FI0181

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	CLARIIDAE

Scientific Name: *Clarias batrachus* (Linnaeus, 1758)

English Name: Walking Catfish, Clarias Catfish, Freshwater Catfish

Bengali Name: Magur, Mosqur, Mojgor, Jiol

Synonym/s: *Silurus batrachus* Linnaeus, 1758

Silurus angularis Russel, 1803

Clarias punctatus Valenciennes, 1840

Clarias assamensis Day, 1877

Clarias magur Day, 1889

Taxonomic Notes: None.



Clarias batrachus

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Clarias batrachus* is widely distributed throughout Bangladesh and occupies a wide variety of water bodies. Threats to the species are general and it has the ability to withstand marginalized and poor quality water allowing it to thrive in adverse conditions. Moreover, the species is cultured in many parts of the country. Therefore, the fish is unlikely to face a risk of extinction in near future. Hence, *C. batrachus* is assessed as Least Concern.

Date Assessed: 20 March 2015

History

Regional Status: The taxon has been considered Not Threatened earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: This species has been reported as native to Bangladesh, Cambodia, China, India, Indonesia, Japan, Lao PDR, Malaysia, Myanmar, Nepal, Pakistan, Singapore, Sri Lanka, Thailand and Viet Nam. The species has also been widely introduced for cultivation in many countries, like Philippines, and also in the eastern and western coasts of the USA (Talwar and Jhingran 1991, Allen 2013)

Bangladesh: The fish has been reported from the rivers and wetlands (such as muddy ponds, canals, ditches, swamps and floodplains) all over Bangladesh.

EOO: 2,17,468 km²

AOO: 11,964 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on the total population is unknown. However, it is common within its habitat ranges.

Trend: Declining (pers. obs.).

Habitat and Ecology

This species is an omnivore and considered as scavenger. It searches for food actively and consumes a wide variety of prey, including eggs or larvae of other fishes, small fishes and a number of invertebrates, such as annelids, crustaceans and insects. It attains maturity at the end of the first year of its life and breeds in shallow water during monsoon in May-July (Alam 2007). This fish is able to survive in warm, stagnant, often hypoxic waters (Alam 2007). *C. batrachus* inhabits fresh- and brackish waters and found in a wide variety of water bodies including lakes, rivers, ponds, ditches, canals, floodplains and even in mangrove streams. It is nocturnal in habit (Alam 2007).

Assessor: Gawsia Wahidunnessa Chowdhury



Hara jerdoni

Species ID: FI0170

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	ERETHISTIDAE

Scientific Name: *Hara jerdoni* Day, 1870

English Name: Sylhet Hara

Bengali Name: Kutakanti

Synonym/s: *Erethistes jerdoni* Day, 1878

Hara jerdoni Hora, 1949

Hara jerdoni Menon, 1974

Taxonomic Notes: Recently, molecular taxonomy through DNA barcoding of mitochondrial Cytochrome Oxidase I (COI) gene of this species has been confirmed from the specimen collected from Tanguar haor (Ahmed et al. 2015, GenBank: KT762372).

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Hara jerdoni* is a widely distributed but rarely met species in the country. It is less abundant than its congeners are. No potential threat to its habitats has yet been identified. The Extent of Occurrence and Area of Occurrence estimated to be much higher than the Threshold for lowest Threatened Category. Therefore, this species has been assessed as Least Concern.

Date Assessed: 25 February 2015

History

Regional Status: It was considered as Not Threatened (NO) in Red List by IUCN Bangladesh 2000.



Hara jerdoni

© Md. Mizanur Rahman

Geographic Range

Global: The species is recorded from Bangladesh, Northern part of the Indian subcontinent and Thailand (Rahman and Ruma 2007).

Bangladesh: It occurs in river, streams and canals of Sylhet Division, Mymensingh, Tangail and Chandpur Districts and the Tanguar Haor of Sunamganj District of Bangladesh (Rahman 2005, Ahmed et al. 2015).

EOO: 44,194 km²

AOO: 2,531 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

This species inhabits slow-moving streams and narrow rivers. Its preferred habitats are characterized by soft substrates (Ng 2010). A shy and nocturnal fish, it prefers to be in groups than alone.



Assessor: Md. Ahsanul Islam

Erethistes pusillus

Species ID: FI0176

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	ERETHISTIDAE

Scientific Name: *Erethistes pusillus* Müller and Troschel, 1849

English Name: Moth Catfish

Bengali Name: Kutakanti

Synonym/s: *Erethistes hara* (Hamilton, 1822)

Erethistes pussilus Müller & Troschel, 1849

Taxonomic Notes: The species is wrongly described as *Erethistes hara* by Hamilton in 1822. Latter on the species was finally described as *Erethistes pussilus* by Müller and Troschel in 1849. However, the species is distinguished from the genus *Hara* in having divergent serrations on anterior edge of the pectoral spine.



Erethistes pusillus

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: The species has just been found at few locations within the country. The Area of Occupancy of this species is 1,089.35 km². The Extent of Occurrence has been estimated as 22,173.59 km². The decline in its population is based on fisher's perception. Thus the species assessed as Least Concern.

Date Assessed: 23 September 2014

History

Regional Status: It was not considered as Threatened in Red List by IUCN Bangladesh 2000.

Geographic Range

Global: The species is found in India, Bangladesh and Myanmar.

Bangladesh: It is found in Brahmaputra drainages.

EEO: 22,174 km²

AOO: 1,089 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

The species is found in slower stretches of the sandy parts of rivers and hill streams where considerable vegetation is present.



Assessor: Md. Golam Mustafa

Associate Assessor/s: Baram Mahalder and Mohammad Ilyas

Heteropneustes fossilis

Species ID: FI0182



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	HETEROPNEUSTIDAE

Scientific Name: *Heteropneustes fossilis* (Bloch, 1794)

English Name: Stinging Catfish, Fossil Catfish, Liver Catfish

Bengali Name: Shing, Jiol, Shinghi, Jill Shinghi

Synonym/s: *Silurus fossilis* Bloch, 1797,

Silurus singio Hamilton, 1822,

Saccobranchus fossilis Day, 1878,

Heteropneustes fossilis Misra, 1976

Taxonomic Notes: None.



Heteropneustes fossilis

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Heteropneustes fossilis* is widely distributed in the country and occupies a wide range of water bodies. It experienced an insignificant decline in population that has been substituted by the recruitment of escaped fishes from pond aquaculture. The prevailing threats are general. So, it has been assessed Least Concern.

Date Assessed: 20 March 2015

History

Regional Status: This species has been considered Not Threatened earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: The fish is known to occur in Bangladesh, India, Laos, Myanmar, Nepal, Pakistan, Sri Lanka and Thailand (Talwar and Jhingran 1991).

Bangladesh: *H. fossilis* is widely distributed in lentic freshwaters and also occasionally in brackish waters throughout Bangladesh. It was very common in Buriganga and Turag River. Recently, it has also been recorded from Chalan Beel, Haldi Beel, Tanguar Haor, Kapotakkho River, Padma River, Jamuna River (Latifa *et al.* In Press).

EOO: 2,17,468 km²

AOO: 11,964 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on total population is unknown, but it is fairly common throughout its entire habitat ranges (Saha 2007). At present, this fish is cultured in many parts of the country.

Trend: Unknown.

Habitat and Ecology

The fish is omnivorous and predatory in nature. It feeds on bottom dwelling small invertebrates, detritus, and eggs of other fishes, larvae of fish, insects and others. It is much dreaded because of its aggressive behavior and can inflict painful wounds with its potentially dangerous pectoral spines. It is able to tolerate slightly brackish water conditions. Its air breathing apparatus enables it to exist in almost any kind of waters. It comes to water surface at times for air breathing. This is primarily a freshwater fish and utilizes a wide range of water bodies, including ponds, ditches, beels, swamps and marshes, also occurs in muddy rivers. It is also occasionally found in slightly brackish waters (Saha 2007).



Assessor: Gulshan Ara Latifa

Eutropiichthys murius

Species ID: FI0009

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SCHILBEIDAE

Scientific Name: *Eutropiichthys murius* (Hamilton, 1822)

English Name: Indus Garua

Bengali Name: Muri Bacha, Motus

Synonym/s: *Clupisoma murius*, Hamilton, 1822

Eutropius murius, Hamilton, 1822

Pseudeutropius murius, Day, 1878

Eutropiichthys murius, Hora 1937

Clupisoma nazri, Mirza & Awan, 1973

Pseudeutropius murius batarensis, Shrestha, 1982

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Eutropiichthys murius* was described from the Mahananda River (part of the Brahmaputra River drainage) in Bangladesh, and is known throughout the Ganges and Brahmaputra river drainages in northern, northeastern and southern part of Bangladesh. Although the threats to this species are unknown, it is assumed that its wild population is in declining due to over exploitation and habitat destruction. Recent field surveys (M.S. Ahmed pers. comm. 2014) indicated that this species is still relatively abundant and widespread, and therefore, the species is assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: It was not considered as threatened



Eutropiichthys murius

© Balam Mahalder

species in IUCN Bangladesh (2000).

Geographic Range

Global: It is found Bangladesh, India and Nepal. (Rahman 1989, Talwer and Jhingran 1991).

Bangladesh: *Eutropiichthys murius* is freshwater riverine fish found in the Padma, Meghna, Old Brahmaputra, Greater Mymensingh and Sylhet Districts. (Rahman 1989).

EOO: 91,108 km²

AOO: 3,145 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Its wild population declining due to over exploitation and habitat destruction.

Habitat and Ecology

It inhabits main channels of large rivers and their tributaries. During monsoon migrate to the adjacent floodplain of the rivers (M. S. Ahmed pers. comm. 2014).



Assessor: M. Kamrujaman

Eutropiichthys vacha

Species ID: FI0010

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SCHILBEIDAE

Scientific Name: *Eutropiichthys vacha* (Hamilton, 1822)

English Name: Batchwa Vacha, Bacha

Bengali Name: Bacha, Garua Bacha

Synonym/s: *Pimelodus vacha* Hamilton, 1822

Bagrus vacha Valenciennes, 1839

Pachypterus punctatus Swainson, 1839

Eutropiichthys burmannicus Day, 1877

Eutropiichthys vacha Day, 1878

Taxonomic Notes: None



Eutropiichthys vacha

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Eutropiichthys vacha* is widely distributed in freshwater and coastal rivers. Current data suggests that this species is still relatively abundant in all over Bangladesh. Though, population might be declining locally in some areas due to overexploitation and habitat destruction, recent information indicates it has much greater area of EOO (2,20,042.27 km²) and AOO (10,587.65 km²). Therefore, this species is assessed as Least Concern.

Date Assessed: 25 June 2014

History

Regional Status: It was assessed as Critically Endangered in IUCN Bangladesh (2000).

Geographic Range

Global: It is found Bangladesh, India, Myanmar, Nepal, Pakistan, and Thailand. (Rahman 2005, Ferraris & Vari 2007, Talwer and Jhingran 1991).

Bangladesh: *Eutropiichthys vacha* is mainly a freshwater fish but it is also available in coastal rivers. This species is widely distributed in major rivers and their tributaries, haors; and beels all over the country Kaptai Lake in the hilly districts of Bandarban and Rangamati. (Rahman 2005, Chowdhury 2007, Kostori *et al.* 2011).

EOO: 2,20,042 km²

AOO: 10,588 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Its wild population is in declining due to over exploitation and habitat destruction.

Habitat and Ecology

Eutropiichthys vacha is mainly a freshwater fish but it is also available in coastal rivers. This species is widely distributed in major rivers and their tributaries, haors; and beels all over the country and Kaptai Lake in the hilly districts of Bandarban and Rangamati. (Rahman 2005, Chowdhury 2007, Kostori *et al.* 2011). It is potamodromous, voracious and feeding on small fishes and insects. (Talwar and Jhingran 1991).



Assessor: M. Kamrujjaman

Neotropius atherinoides

Species ID: FI0011



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SCHILBEIDAE

Scientific Name: *Neotropius atherinoides* (Bloch, 1794)

English Name: Indian Potasi

Bengali Name: Batasi, Bataiya, Batais, Bashpata, Fultengra, Tinkata batashi

Synonym/s: *Silurius atherinoides* Bloch, 1794

Bagrus atherinoides Valenciennes, 1839

Pachypterus atherinoides Swainson, 1839

Bogrus exodon Bleeker, 1853

Pseudeutropius atherinoides Day, 1878

Taxonomic Notes: None



Neotropius atherinoides

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Neotropius atherinoides* has been assessed as Least Concern due to its wide distribution range and abundance in all aquatic ecosystems in the country. The population size and trend of this species remained unknown but facing some threats of overexploitation and habitat destruction.

Date Assessed: 25 June 2014

History

Regional Status: It was considered as Not Threatened in IUCN Bangladesh (2000).

Geographic Range

Global: It is native to Asia, including Bangladesh, India,

Myanmar, Nepal and Pakistan (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: *Neotropius atherinoides* inhabits in major freshwater rivers and coastal rivers. This species is widely distributed in major fresh and tidal water rivers and their tributaries, haors and beels of all over the country.

EOO: 2,20,042 km²

AOO: 10,588 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on the global population is unavailable.

Trend: Its wild population is showing declining trend over due to over exploitation and habitat destruction.

Habitat and Ecology

It is amphidromous and fast swimmer; feeds on algae, plant material and debris (Talwar and Jhingran 1991).



Assessor: M. Kamrujjaman

Silonia silondia

Species ID: FI0012



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SCHILBEIDAE

Scientific Name: *Silonia silondia* (Hamilton, 1822)

English Name: Silond Catfish, Silonida Vacha

Bengali Name: Shilong, Silond, Dhain, Siloin, Jilang

Synonym/s: *Pimelodus silondia* Hamilton, 1822

Silonia lurida (Swainson, 1838)

Silundia gangetica Valenciennes, 1840

Silondia silondia Hora, 1937

Taxonomic Notes: None



Silonia silondia

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Silonia silondia* is distributed in large river systems of the country. Although, the species suffered a population decline in the past, presently the population is recovering. Availability of the fish in markets and perception of the local fishers suggest that the species is in good condition. The estimated Extent of Occurrence (EOO) and Area of Occupancy (AOO) of the species are higher than the upper threshold values for any IUCN threatened category. The threats to the fish are general. The risk of extinction of the species in near future is not anticipated. Hence, the species is assessed as Least Concern.

Date Assessed: 25 July 2014

History

Regional Status: It was considered as Endangered in IUCN Bangladesh 2000.

Geographic Range

Global: Its range includes Bangladesh, India, Nepal, Pakistan and probably Myanmar (Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: *Silonia silondia* is available in rivers, estuaries and beels all over Bangladesh (Rahman 2005).

EOO: 21,468 km²

AOO: 11,964 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Its population is declining due to uncontrolled exploitation and silting up of major rivers.

Habitat and Ecology

It is a riverine fish but inhabits beels and reservoirs as well. It prefers well-oxygenated and clear waters. It is carnivorous and voracious in habit. This amphidromous catfish moves in shoals and breeds during monsoon (Talwar and Jhingran 1991).



Assessor: M. Kamrujjaman

Ailia coila

Species ID: FI0155



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SCHILBEIDAE

Scientific Name: *Ailia coila* (Hamilton, 1822)

English Name: Gangetic Ailia

Bengali Name: Kajuli, Bashpata

Synonym/s: *Malapterurus coila* Hamilton, 1822,
Malapterus bengalensis Gray, 1830
Acanthonotus hardwickii Gray, 1830
Silurus cuvieri Gray, 1830
Melapterurus cuvieri Swainson, 1839
Ailia affinis Gunther, 1864
Ailia coila Day, 1877 & 1889

Taxonomic Notes: The specific characters that separate from the related species, *A. punctata* are the presence of small pelvic fin and silvery body with black caudal fin edge but no black spot on the base of caudal fin (Talwar and Jhingran, 1991). Recently, its taxonomy has been confirmed through DNA barcoding of mitochondrial Cytochrome Oxydase I (COI) gene (Ahmed *et al.* 2015, GenBank: KT364782.1).



Ailia coila

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Ailia coila* is well known and very popular fish, widely distributed in all the major river systems and their connected water bodies throughout Bangladesh. Considering its large Extent of Occurrence and the Area of Occupancy and little or no threat to the fish it has been assessed as Least Concern.

Date Assessed: 04 August 2014

History

Regional Status: It has been considered as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: The genus *Ailia* is endemic to the South Asian. Therefore, the species is confined in the Jamuna, Ganga, Bramhaputra and Mahananda rivers in India; Indus plains in Pakistan; Nepal; Padma-Jamuna-Meghna river systems in Bangladesh (Talwar and Jhingran 1991, Rahman 2005, Parween, 2007).

Bangladesh: It lives in rivers and connected hoars, baors, beels, and other flooded lands particularly in the north-west to north and south-eastern districts of Bangladesh (Ahmed 2002, Parween 2007, Chandra 2009, Galib *et al.* 2013).

EOO: 1,73,814 km²

AOO: 10,687 km²

Population.

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Ailia coila usually lives in shoals in rivers to connected large natural water bodies with sand or mud created turbid water (Parween 2007). They migrate to connected water bodies during monsoon and even moves to estuarine waters in the south of Bangladesh (Rahman 2005, Parween 2007). It is a carnivore, mostly feeding on zooplankton, but occasionally prefers algae, plant materials and debris.



Assessor: Md. Rafiqun Nabi

Ailia punctata

Species ID: FI0156

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SCHILBEIDAE

Scientific Name: *Ailia punctata* (Day, 1872)

English Name: Jamuna Ailia

Bengali Name: Kajuli, Bashpata

Synonym/s: *Ailiichthys punctata* Day, 1872

Ailia punctata Jayaram, 1962

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Ailia punctata* is available in good quantity in river systems and connected water bodies like haors, baors, beels and floodplains all over Bangladesh. On the basis of its large Extent of Occurrence and Area of Occupancy and apparent absence of any major threat to it or its habitats *Ailia punctata* has been evaluated as Least Concern.

Date Assessed: 04 August 2014

History

Regional Status: This taxon has been considered as Vulnerable for the IUCN Red List 2000.

Geographic Range

Global: *Ailia punctata* is a widely distributed in the freshwater river systems in Bangladesh, India and Pakistan (Talwar and Jhingran 1991, Rahman 2005, Rahman and Ruma 2007).



Ailia punctata

© Mostafa A R Hossain

Bangladesh: The species is found in rivers, haors, baors and beels in the north-west to north and south-west districts of Bangladesh.

EOO: 1,73,814 km²

AOO: 10,687 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Ailia punctata lives in shoals in rivers and connected natural water bodies with sand or mud created turbid waters. They migrate to connected water bodies from monsoon to onward months of the year. Probably not available in the estuarine waters. It is diurnal in habit and feeds on primarily algae and plant materials and occasionally intake debris.



Assessor: Md. Rafiqun Nabi

Gagata cenia

Species ID: FI0162



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Gagata cenia* (Hamilton, 1822)

English Name: Indian Gagata

Bengali Name: Cenia, Jungla, Kauwa, Tengra, Gang Tengra, Gang Magur, Gun Mach

Synonym/s: *Pimelodus cenia* Hamilton, 1822,
Ggata cenia Day, 1878
Gagata dolichonema He, 1996
Gagata typus, Bleeker 1863

Taxonomic Notes: None



Gagata cenia

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Gagata cenia* is widely distributed throughout the country including estuaries. It is relatively common compared to its congeners (Ahmed *et al.* 2015). Although Area of Occupancy is squeezing, it is still above the threshold level of the Threatened Category. As a widespread species, with no major threats to the habitats, the species is assessed as Least Concern.

Date Assessed: 24 July 2014

History

Regional Status: It was considered as not threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India, Pakistan,

Myanmar, Nepal and Thailand (Suvatti 1981, Talwar and Jhingran 1991, Rahman 2005).

Bangladesh: It occurs in Ganges-Brahmatra system. Also reported from Haors and Rivers of Sylhet, Durgapur of Netrokona (specially in the Someswari River), Mohanonda River, Chalan Beel, Mymensingh Sadar (Brahmaputra river), Dinajpur Rivers (Chhoto Jamuna, Garveswari, Atrai and Kanchon) Boral River of Natore, hill streams of Bandarban and Cox's Bazar, Feni River, Tanguar Haor (Rahman 2005, Ahmed *et al.* 2015 and M A R Hossain pers. com.).

EOO: 90,691 km²

AOO: 10,520 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It occurs in large rivers with sandy/muddy bottoms and also in hill streams. Benthic feeder, probably decomposing matter and small organisms.



Assessor: Afshana Parven

Associate Assessor/s: Mostafa Ali Reza Hossain and Mst. Kaniz Fatema

Gagata gagata

Species ID: FI0164



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Gagata gagata* Hamilton, 1822

English Name: Gangetic Gagata

Bengali Name: Gang tengra, Jungla, Ghorakata, Hudda

Synonym/s: *Pimelodus gagata* Hamilton, 1822

Gagata cenia Day, 1878

Gagata gagata Hora and Law, 1941

Gagata cenia Bhuiyan, 1964

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Gagata gagata* is widely distributed and relatively common in catches along with other commercial species. There is no known threat to the species. So, *G. gagata* is assessed as Least Concern.

Date Assessed: 17 December 2014

History

Regional Status: It was considered as Not Threatened (NO) in Red List by IUCN Bangladesh 2000.

Geographic Range

Global: This species is known from the Ganges and Brahmaputra rivers drainage of Bangladesh, India, Irrawaddy River system in Myanmar and Nepal (Chowdhury 2007).



Gagata gagata

© Md. Mizanur Rahman

Bangladesh: *Gagata gagata* is found all over Bangladesh, in both freshwater and estuarine habitats (Ahmed *et al.* 2015, Chowdhury 2007, Hossain *et al.* 2005).

EEO: 95,883 km²

AOO: 5,185 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

This species inhabits rivers and estuaries with sandy or muddy bottoms. It is a bottom feeder, mainly feeds on benthos and ooze (Chowdhury 2007).



Assessor: Sumaiya Ahmed

Gogangra viridescens

Species ID: FI0168

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Gogangra viridescens* (Hamilton, 1822)

English Name: Huddah Nangra

Bengali Name: Gang Tengra

Synonym/s: *Pimelodus viridescens* Hamilton, 1822

Gagata viridescens Hora & law, 1941

Nangra viridescens Day, 1878

Nangra punctata Day, 1877

Taxonomic Notes: None



Gogangra viridescens

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: The species occurs in the upstream rivers of Bangladesh. Recent faunal survey indicates that the species is still abundant within its range. Although it is inferred that its population has declined in some of its ranges but there is no information on population and its trend. Its Extent of Occurrence (EOO) and the Area of Occupancy (AOO) found to be too large for the threshold of Vulnerable Category and the sub-criteria of this section do not support any Threatened status. So, *G. viridescens* is assessed as Least Concern.

Date Assessed: 20 February 2015

History

Regional Status: It was considered as Data Deficient in Red List of IUCN Bangladesh 2000.

Geographic Range

Global: The species has been recorded from Bangladesh, Bhutan, India, Nepal and Pakistan (Shrestha 1990, Petra 1999, Rahman 2005).

Bangladesh: It is found in upstream Rivers of Dinajpur, Rangpur, Mymensingh and Sylhet (Rahman 1989).

EOO: 38,279 km²

AOO: 269 km²

Population

Generation Time (Length): Unknown.

Total Population: Although the present population and its trends are unknown for this species, recent field surveys are that this species suggest is not abundant and the population is decreasing in its natural habitats (Ahmed *et al.* 2015).

Trend: Declining.

Habitat and Ecology

This species inhabits larger rivers with moderate current and sandy substrate (Menon 1999).



Assessor: Md. Sagir Ahmed

Hara hara

Species ID: FI0169

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	ERETHIISTIDAE

Scientific Name: *Hara hara* (Hamilton, 1822)

English Name: Kosi Hara

Bengali Name: Kutakanti

Synonym/s: *Pimelodus hara* Hamilton, 1822

Hara filamentosa Blyth, 1860

Erethistes hara Day, 1877

Hara hara Hora, 1949

Hara serrata Vishwanath and Kosygin, 2000

Taxonomic Notes: *Hara hara* was originally described from the Kosi River by Hamilton (1822). Ng and Kottelat (2005) designated a neotype from the Hooghly River to fix the identification of this species. *Hara serrata* Vishwanath and Kosygin 2000, a species described from the Barak River drainage in Manipur, is considered to be a junior subjective synonym of *H. hara*.



Hara hara

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Hara hara* is a widely distributed and fairly common species in Bangladesh. The Extent of Occurrence and Area of Occupancy estimated to be much higher than the upper threshold values for lowest Threatened Category. There is no report on its population decline (Ahmed *et al.* 2015). Therefore, this species has been assessed as Least Concern.

Date Assessed: 20 September 2014

History

Regional Status: It was not considered as threatened in the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: This species is widely distributed in the Ganges-Brahmaputra system in the northern and northeastern parts of the Indian subcontinent, including Bangladesh, India and Nepal (Ng 2010).

Bangladesh: *Hara hara* is a widely distributed species encompassing different rivers, hill streams, creeks and floodplain areas in the country (Hossain and Haque 2005, Rahman 2005, Rahman and Akhter 2007, Mahsin and Haque 2009, Ahmed *et al.* 2015).

EOO: 82,772 km²

AOO: 9,432 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

This species is found in slower-moving rivers, creeks, streams and floodplain areas. Its preferred habitats are characterized by soft sandy substrates. It is active at night and hides under the sand and pebbles during daytime.

Assessor: Md. Abdur Rob Mollah

Associate Assessor/s: Md. Mizanur Rahman



Nangra nangra

Species ID: FI0171

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Nangra nangra* (Hamilton, 1822)

English Name: Kosi Nangra

Bengali Name: Gang Tengra

Synonym/s: *Gagata nangra* Hamilton, 1822

Macrones nangra Hamilton, 1822

Nangra buchamani Day, 1877

Pimelodus nangra Hamilton, 1822

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: *Nangra nangra* is widely distributed in the Meghna and Dakatia Rivers of Bangladesh. No information is available on its population size and abundance. As no potential threats are reported the species is assessed as Least Concern.

Date Assessed: 21 February 2015

History

Regional Status: It was listed as Not Threatened in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India, Nepal and Pakistan (Rahman 2005, Devi and Boguskaya 2009).

Bangladesh: It occurs in the Meghna and Dakatia Rivers near Chandpur (Rahman 2005). It is not yet reported from



Nangra nangra

© Mostafa A R Hossain

any other location of the country.

EOO: 33,932 km²

AOO: 2,538 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

N. nangra lives in freshwater. It is a demersal species and inhabits the upper reaches of rivers (Devi and Boguskaya 2009). It feeds on bottom dwelling organisms (Rahman and Ruma 2007).



Assessor: Md. Monirul Islam

Macrogathus pancalus

Species ID: FI0241



Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SYNBRANCIFORMES	MASTACEMBELIDAE

Scientific Name: *Macrogathus pancalus* Hamilton, 1822

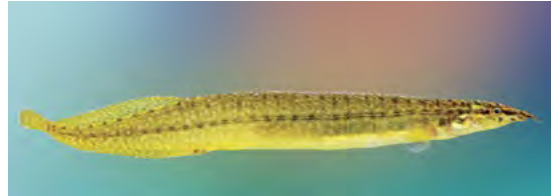
English Name: Stripped Spinyeel, Barred Spiny Eel

Bengali Name: Guchi, Guchibaim, Chirka, Turi

Synonym/s: *Mastacembelus punctatus* Cuvier and Valenciennes, 1832

Mastacembelus pancalus Day, 1876.

Taxonomic Notes: None



Macrogathus pancalus

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This species occurs throughout the country in all types of slow and shallow freshwater bodies (Rahman 2005, Wahab 2007). The relative abundance of the species reported to be fairly common to common (NACOM, 2005, 2006, 2008, 2010 and pers. obs.) and highly abundant in rainy season (Rahman 2005). Because of its capacity to survive in shallow and small water bodies and hiding behaviour, the species is less affected by many threats. The Extent of Occurrence and Area of Occupancy are much higher than the lower thresholds for any threatened category. Therefore, the species is considered as Least Concern.

Date Assessed: 19 October 2014

History

Regional Status: This taxon has not yet been assessed for the IUCN Red List.

Geographic Range

Global: The species is distributed in Bangladesh, India, Pakistan, Sri Lanka, Myanmar and Nepal (Talwar and Jhingran 1991, Froese and Pauly 2014).

Bangladesh: The species is found throughout Bangladesh, except the lower estuaries and high altitude areas (Rahman 2005, Ahmed 2008, Mohsin and Haque 2009, Galib 2013).

EOO: 2,17,468 km²

AOO: 11,857 km²

Population

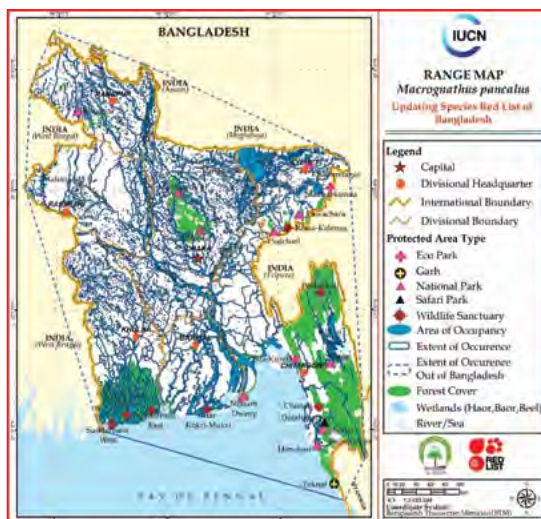
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Slightly declining.

Habitat and Ecology

It feeds on bottom debris along with all types of benthic oligochaetes, nematodes and insect larvae (Ali and Serajuddin 2005, Wahab 2007). The fish can hide in the mud and may avoid predation and vulnerability to some gears. Breeding occurs in upper surface, usually in shallow waters. Several males take part in courting one female (Talwar and Jhingran 1991). It inhabits rivers of all sizes, canals, beels, lake, auto stocked ponds, floodplains and in roadside ditches. Bottom dweller and can inhabit swallow waters, which are unsuitable for many fish species.



Assessor: Md. Sagir Ahmed

Tetraodon cutcutia

Species ID: FI0249

LEAST
CONCERN
<LC>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	TETRAODONTIFORMES	TETRAODONTIDAE

Scientific Name: *Tetraodon cutcutia* Hamilton, 1822

English Name: Ocellated Pufferfish, Ocellated Blowfish

Bengali Name: Tapa, Potka, Kutkuitta

Synonym/s: *Tetraodon cutcutia*, Hamilton, 1822

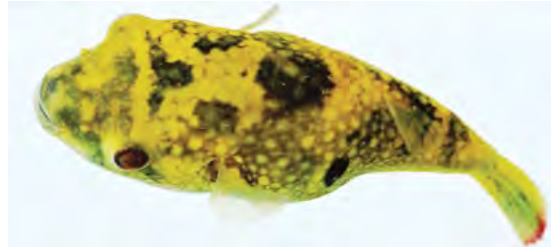
Leisomus cutcutia, Blyth, 1855

Monotretus cutcutia, Munro, 1955

Tetrodon caria, Hamilton, 1822

Leisomus marmoratus, Swainson, 1839

Taxonomic Notes: None



Tetraodon cutcutia

© Md. Sagir Ahmed

Assessment Information

Red List Category & Criteria: Least Concern (LC) ver 3.1

Justification: This species occurs in ponds, beels, canals and rivers as well as in all other freshwater wetlands of the country. The Extent of Occurrence and the Area of Occupancy (AOO) found much higher than the threshold for Vulnerable Category, as well as the sub-criteria of this section do not support any Threatened status. As a widespread species with no known major threat, *T. cutcutia* is assessed as Least Concern.

Date Assessed: 17 September 2014

History

Regional Status: It was assessed as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, Cambodia, India, Malaysia, Myanmar and Sri Lanka (Taki 1974, Talwar and Jhingran 1991, Rahman 2005)

Bangladesh: It occurs in ponds, beels, canals, floodplains, wetlands and rivers throughout the country (Rahman 2005, Ahmed 2008).

EOO: 2,17,468 km²

AOO: 11,857 km²

Population

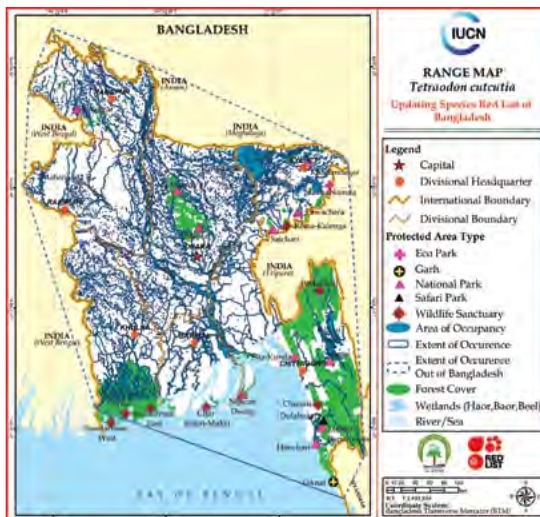
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It can make a loud rasping noise by grinding the teeth. It has the ability to inflate the body with air or water, gulping quickly and then turning upside down so that it can float to the surface. It expels the air or water rapidly with a loud belch to return to the normal size. Its skin, muscle, liver and gonad contains highly toxic paralytic shell fish poison (Ahmed *et al.* 2002). It inhabits freshwater ponds, beels, haor, baor, canals, wetlands and rivers.



Assessor: Md. Sagir Ahmed



DATA DEFICIENT
< DD >



Zenarchopterus ectuntio

Species ID: FI0248

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	BELONIFORMES	HEMIRRAMPHIDAE

Scientific Name: *Zenarchopterus ectuntio* (Hamilton, 1822)

English Name: Ectuntio Halfbeak

Bengali Name: Ek Thutta, Ek Thuta

Synonym/s: *Esox ectuntio* Hamilton, 1822

Hemirhamphus ectuntio Day, 1878

Hemirhamphus amblyurus Bleeker, 1849

Zenarchopterus hendersoni Flower, 1919

Taxonomic Notes: None



Zenarchopterus ectuntio

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *The species Zenarchopterus ectuntio has only been reported once from Bangladesh (Rahman 1989). But no other information is available on its distribution, abundance, population status and trends from Bangladesh waters. So, Z. ectuntio is assessed as Data Deficient.*

Date Assessed: 20 January 2015

History

Regional Status: It was considered as Not Threatened in Red List of IUCN Bangladesh 2000.

Geographic Range

Global: It occurs in Bangladesh, India, Nepal, Myanmar, Thailand and upstream to lower Makong river (Talwar and Jhingran 1991, Rainboth 1996, Rahman 2005).

Bangladesh: There is an unsubstantiated report of its occurrence from the estuarine area of Bangladesh.

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is ovoviviparous and stays close to shore, feeds on terrestrial insects that come close to or falls on the water surface (Rainboth 1996).



Assessor: Md. Sagir Ahmed

Oryzias carnaticus

Species ID: FI0190

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	BELONIFORMES	ADRIANICHTHYIDAE

Scientific Name: *Oryzias carnaticus* (Jerdon, 1849)

English Name: Spotted Ricefish

Bengali Name: Bechi

Synonym/s: *Aplocheilus carnaticus* Jerdon, 1849

Panchax argenteus Day, 1868

Panchax cyanophthalma Blyth, 1858

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Oryzias carnaticus* has been reported from few locations of the country. Although, the estimated Area of Occupancy (1,031 km²) qualifies the species for the threatened category. Vulnerable but detailed information on its distribution, population abundance and trend, ecological requirements and threats to the species are not currently available. Therefore, the species is assessed as Data Deficient.

Date Assessed: 17 December 2014

History

Regional Status: The species was not assessed earlier in Bangladesh.

Geographic Range

Global: *O. carnaticus* is known to occur in Bangladesh, India, Myanmar and Srilanka (Abraham 2013).



Oryzias carnaticus

© Mostafa A R Hossain

Bangladesh: In Bangladesh, this species has been reported from Pasur River of Sundarbans, ponds, ditches and canals of Khulna District (Roberts 1998). It is also reported from Brahmaputra River and Haibatnagar in Mymensingh District (Spence 2006).

EOO: 26,715 km²

AOO: 1,032 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is a larvivorous fish (Ravindran 2012) and feeds on larvae of mosquito or other aquatic insects. This species is found near the coast but may live in freshwater as well as in brackish water habitat (Roberts 1998). It is very common in paddy fields adjacent to canals (Arunachalam 2004 cited in Abraham 2013).



Assessor: Sumaiya Ahmed

Oryzias dancena

Species ID: FI0191

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	BELONIFORMES	ADRIANICHTHYIDAE

Scientific Name: *Oryzias dancena* (Hamilton 1822)

English Name: Indian Ricefish/Ricefish

Bengali Name: Bechi

Synonym/s: *Cyprinus dancena* Hamilton, 1822;

Aplocheilus maclellandi Bleeker, 1854

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Oryzias dancena* is assessed as Data Deficient because of insufficient data on taxonomy, distribution, population abundance, trend and threat to the species.

Date Assessed: 17 December 2014

History

Regional Status: The species has not been assessed earlier in Bangladesh.

Geographic Range

Global: *O. dancena* is reported from Bangladesh, India Myanmar, Sri Lanka and Thailand (Abraham 2013).

Bangladesh: This species is reported from freshwater ponds at Pipral village, Khulna District (Roberts 1998). Greater Noakhali District (Feni, Laxmipur and Noakhali Districts) (Hossain 2013) and Halda River of Chittagong District (Azadi and Alam 2011).



Oryzias dancena

© Md. Mizanur Rahman

EOO: 32,578 km²

AOO: 2768 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It usually occurs near the coast but may live in freshwater as well as in brackish water habitat (Froese and Pauly 2014). It is a micro predator and feeds on small insects, worms, crustaceans and other zooplankton.



Assessor: Sumaiya Ahmed

Dermogenus brachynotopterus

Species ID: FI0245

DATA
DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	BELONIFORMES	HEMIRAMPHIDAE

Scientific Name: *Dermogenus brachynotopterus*
(Bleeker, 1853)

English Name: Gangetic Halfbeak

Bengali Name: Ek Thota

Synonym/s: *Hemirhamphus brachynotopterus* Bleeker, 1853
Hemirhamphus brachynotopterus Day, 1877
Dermogenys brachynotopterus Mukerji, 1935
Zenarchopterus brachynotopterus Jayaram, 1981

Taxonomic Notes: None



Dermogenus brachynotopterus

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: In Bangladesh, occurrence of the species is only known from a single specimen collected at Gallamari, Khulna (Rahman 1989) and then from the Fish Markets in Barisal along with other locally harvested fishes (Al-Hassan *et al.* 2014). The Extent of Occurrence and Area of Occupancy are estimated as 75,823.69 km² and 12,335.40 km², respectively are based on two disjunct reports. There is no further information on the ecology and population. Therefore *Dermogenus brachynotopterus* is assessed as Data Deficient.

Date Assessed: 20 January 2015

History

Regional Status: It was considered as Data Deficient (DD) in Red List of IUCN Bangladesh 2000.

Geographic Range

Global: It is widely distributed in South and Southeast Asia, ranging from Bangladesh, India to the Philippines and Greater Sundas.

Bangladesh: *Dermogenus brachynotopterus* is obtained only one specimen from Gollamari canal near Khulna Fish Seed Farm (Rahman 1989) and lower courses of rivers and possibly estuarine habitats of the Barisal Division like Mohipur, Patuakhali, Bhola, Pirojpur and Mehendigonj (Al-Hasan *et al.* 2014).

EOO: 16,749 km²

AOO: 4,016 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It feeds extensively on small insects (Latifa 2007), either in the form of aquatic larvae or flying insects that have fallen onto the surface of the water (Torres 2014). It is also an important predator on mosquito larvae. It lives in estuaries and lower courses of inter-tidal rivers in the southern part of Bangladesh. It occasionally ventures into freshwater habitats.



Assessor: Md. Rafiqun Nabi

Ilisha melastoma

Species ID: FI0058

DATA
DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CLUPEIFORMES	PRISTIGASTERIDAE

Scientific Name: *Ilisha melastoma* (Bloch & Schneider, 1801)

English Name: Indian Ilisha

Bengali Name: Khorchuna, Peti Choukha

Synonym/s: *Clupanodon motius* Hamilton, 1822

Platygaster indica Swainson, 183

Ilisha indica Swainson, 1839

Pellona ditchoa Valenciennes, 1847

Pellona brachysoma Bleeker, 1852

Taxonomic Notes: None



Ilisha melastoma

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: The species has been noted from the coast of Sundarbans and Saint. Martin's Island of Bangladesh (Chantarasri 1994, BOBLME 2010, Hoq and Haroon 2012). However, information on its population abundance and trend are lacking. Moreover, information on its full ranges of distribution within Bangladesh waters, habitat quality and threats are also inadequate. Therefore, *Ilisha melastoma* is assessed as Data Deficient.

Date Assessed: 17 September 2014

History

Regional Status: This taxon has been assessed as Not Threatened (NO) in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: The species is native to Andaman Sea, Arabian Sea, Bay of Bengal, East China Sea, Gulf of Oman, Gulf of Thailand, Indian Ocean, Indonesian Sea, North Australian Shelf, Northeast Australian Shelf, Pacific Ocean, Persian Gulf, South China Sea, Tung-hsiao, Sikao Creek and Chilika Lake/Lagoon (Russell and Houston 1989).

Bangladesh: In Bangladesh the species probably occurs in the Bay of Bengal, along the coasts of Sundarbans and Saint Martin's Island.

EOO: 21,041 km²

AOO: 3,079 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

The species inhabits marine and brackish waters; it is a pelagic-neretic species living at the depth range of 0-50 m. It is a surface feeder and feeds on aquatic insects and detritus. The fish can tolerate low salinities.



Assessor: Mostafa Ali Reza Hossain

Balitora brucei

Species ID: FI0121

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	BALITORIDAE

Scientific Name: *Balitora brucei* Gray, 1830
English Name: Gray's Stone Loach, Rock Carp
Bengali Name: Not known.
Synonym/s: *Balitora brucei brucei* Gray, 1830
Balitora maculata Gray, 1830
Platy cara anisura McClelland & Griffith, 1842
Balitora brucei burmanicus Hora, 1932
Taxonomic Notes: None.



Balitora brucei

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Balitora brucei* has been mentioned to be present in Bangladesh by Talwar and Jhingran (1991) and Sherstha (2008) without any sighting or specimen record. There are no further information on its distribution and population abundance from the country. Therefore, the status of *B. brucei* is assessed as Data Deficient.

Date Assessed: 20 November 2014

History

Regional Status: It was not assessed in Bangladesh.

Geographic Range

Global: *Balitora brucei* is found from Bangladesh, India, Nepal, Tibet, Bhutan, Myanmar, Pakistan and Sri Lanka (Talwar and Jhingran 1991, Oo 2002, Sherstha 2008).

Bangladesh: Unknown.

Population

Generation Time (Length): Unknown.
Total Population: Unknown.
Trend: Unknown.

Habitat and Ecology

Outside Bangladesh *B. brucei* is found in fast flowing torrential hill streams in riffles, hilly rapid flowing water bodies and waterfalls. The fish prefers backwater and quiet eddies. Breeders ascend small hill streams and creeks for spawning during monsoon. Eggs are laid on gravel beds (Sherstha 2008).



Assessor: Mostafa Ali Reza Hossain

Schistura beavani

Species ID: FI0123

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	BALITORIDAE

Scientific Name: *Schistura beavani* (Günther, 1868)

English Name: Creek Loach

Bengali Name: Puiya, Balichata

Synonym/s: *Nemacheilus beavani* Günther, 1868

Noemacheilus beavani Menon, 1987

Taxonomic Notes: Günther (1868) described *Nemacheilus beavani* from Kosi River, Uttar Pradesh, India. Banarescu and Nalbant (1995) treated the species under the Genus *Schistura*.



Schistura beavani

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Schistura beavani* is reported only from a single location though other species of the same genus found in similar habitats of different areas in the country. Data are not available for assessment of its status but the estimated Extent of Occurrence and Area of Occupancy qualify for the Threatened Categories. Due to insufficient information, this species is assessed as Data Deficient.

Date Assessed: 15 November 2014

History

Regional Status: It was considered as Data Deficient (IUCN Bangladesh 2000).

Geographic Range

Global: It is found in Bangladesh, India and Nepal (Rahman and Chowdhury 2007).

Bangladesh: The Dahuki River in Sylhet is an ideal habitat for the species (Rahman and Chowdhury 2007). Recently, this species has been reported from the upstream of the Piyang River of Sylhet (Ahmed *et al.* 2015).

EOO: 523 km²

AOO: 86 km²

Population

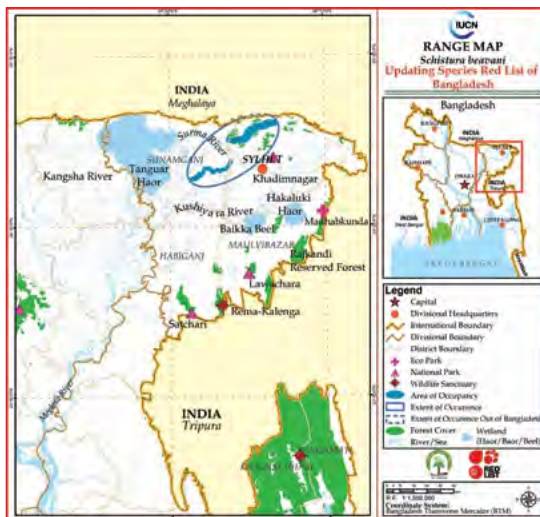
Generation Time (Length): Unknown.

Total Population: The current population and its trends are unknown. However, recent field surveys indicates that this species is very rare (Ahmed and Rahman 2014).

Trend: Unknown.

Habitat and Ecology

It inhabits rivers and streams adjoining hills with gravelly and rocky bottoms. It hides underneath rocks and stones in shallow and swift clear streams with pebbly bottoms. Feeds on algae, detritus and other benthic organisms (Rahman and Chowdhury 2007).



Assessor: Md. Mizanur Rahman

Botia rostrata

Species ID: FI0130

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE

Scientific Name: *Botia rostrata* Günther, 1868

English Name: Gangetic Loach

Bengali Name: Rani Mach

Synonym/s: Not known.

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Botia rostrata* has been recorded from Bangladesh (Hossain *et al.* 2012). However, the distribution of this species has not yet been recorded by others in Bangladesh. Moreover, there is no report of its population size or population trend, number of locations or quality of habitat from Bangladesh. Hence, the status of *B. rostrata* is assessed as Data Deficient.

Date Assessed: 25 February 2015

History

Regional Status: The species was not assessed earlier in Bangladesh.

Geographic Range

Global: *Botia rostrata* are reported from Bangladesh (Hossain *et al.* 2012, Kottelat 1989) and India (Chaudhury 2010, Kottelat 1989). Also recorded from the Salween and Irrawaddy basin in China, adjacent to the Myanmar border (Kottelat 1989).



Botia rostrata

© Balam Mahalder

Bangladesh: It is supposed to be found in the freshwater rivers of Bangladesh (Hossain *et al.* 2012).

EOO: 2,17,468 km²

AOO: 9,400 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

They live in medium to fast current waters (Chaudhury 2010).



Assessor: Gawsia Wahidunnessa Chowdhury

Pangio oblonga

Species ID: FI0136

DATA
DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	COBITIDAE

Scientific Name: *Pangio oblonga* (Valenciennes, 1846)
English Name: Java Loach, Cinnamon Loach
Bengali Name: Panga, Kalo Kuhli
Synonym/s: *Pangio javanicus*, Bleeker, 1860
Cobitis oblonga Valenciennes, 1846
Acanthopthalmus javanicus Bleeker, 1860
Acanthopthalmus javanicus van Hasselt, 1823

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: This species has been recorded only once from Bangladesh (Hossain *et al.* 2012). However, the distribution of this species has not yet been confirmed by others in Bangladesh. Moreover, there is no record of its population trend, number of locations or quality of habitat. Thus, the status of *Pangio oblonga* is assessed as Data Deficient.

Date Assessed: 20 March 2015

History

Regional Status: This taxon has not yet been assessed in Bangladesh.

Geographic Range

Global: It has reported from Bangladesh, India and Myanmar, Viet Nam and Cambodia, Lao PDR, Malaysia and Thailand (Talwar and Jhingran 1991, Bohlen *et al.* 2011).



Pangio oblonga

© Mostafa A R Hossain

Bangladesh: It is known only from the river Brahmaputra and greater district of Mymensingh and Sylhet.

EOO: 14,742 km²

AOO: 454 km²

Population

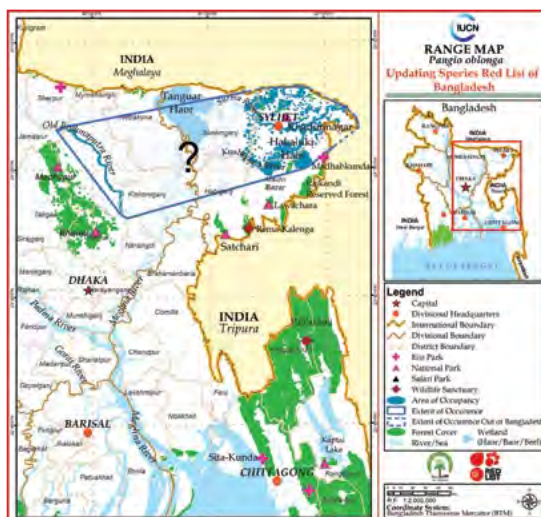
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Decreasing.

Habitat and Ecology

It inhabits river, shallow water, streams with muddy bottom, among shore vegetation (Kottelat *et al.* 2005). It feeds on benthic invertebrates and spawns in very shallow water of flooded forests.



Assessor: Mohammad Abdul Baki
Associate Assessor/s: Selina Suitana and Mohammed Noman

Salmostoma argentea

Species ID: FI0029

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Salmostoma argentea* (Day, 1867)

English Name: Silver Razorbelly Minnow

Bengali Name: Chela

Synonym/s: *Chela argentea* Day 1867

Oxygaster argentea (Day 1867)

Salmostoma acinaces (Valenciennes 1844)

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: Although *Salmostoma argentea* was reported from the Meghna drainage, and a few other places, little is known about this species' distribution, population trend, habitat requirements or threats. More information is needed on its extent of occurrence, ecological requirements, population size, population trends, and long-term threats. Therefore, it is listed as Data Deficient.

Date Assessed: 25 June 2014

History

Regional Status: It was considered as Data Deficient (IUCN Bangladesh 2000).

Geographic Range

Global: Unknown.



Salmostoma argentea

© Mostafa A R Hossain

Bangladesh: The species is found in the Meghna drainage (Rahman 2005) and inhabits rivers, streams, canals, floodplains (Rahman and Chowdhury 2007).

EOO: 2,17,468 km²

AOO: 44,652 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is not known. However, percent catch analysis from Baikka Beel in 2011 shows that relative abundance was only 0.01% in the catches (IRG-Worldfish 2011).

Trend: Declining

Habitat and Ecology

The habitat of silver razorbelly Minnow is freshwater, including lower reaches of rivers, ponds, beels, ditches, canals and hill streams. *Salmostoma argentea* is a surface feeder species and feeds mainly on aquatic insects and detritus. It is a benthopelagic and potamodromous species (Rahman and Chowdhury 2007).



Assessor: Md. Golam Mustafa

Associate Assessor/s: Selina Sultana and Mohammed Noman

Barilius barila

Species ID: FI0041

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Barilius barila* (Hamilton, 1822)

English Name: Barred Barila

Bengali Name: Barali, Koksa

Synonym/s: *Barilius barila* Hamilton, 1822

Cyprinus barila Hamilton, 1822

Leuciscus barila Hamilton, 1822

Cyprinus chedrio Hamilton, 1822

Opsarius anisocheilus McClelland, 1839

Barilius barnoides Vinciguerra, 1890

Opsarius barnoides Vinciguerra, 1890

Barilius shanensis Fowler, 1958

Danio monshiensis Yang & Hwang, 1964

Taxonomic Notes: None



Barilius barila

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Barilius barila* is fairly common in hill streams and shallow foothill rivers in the northern Bangladesh. However, there are inadequate information available on its Area of Occupancy, distribution and population trend to assess its status, therefore the species is considered as Data Deficient.

Date Assessed: 25 June 2014

History

Regional Status: The species has been assessed as Data Deficient in IUCN Bangladesh 2000.

Geographic Range

Global: The taxon is distributed in Bangladesh, India, Myanmar and Nepal (Rahman and Ruma 2007).

Bangladesh: It occurs in hill streams of northern Bangladesh (Rahman and Ruma 2007).

EOO: 4,412 km²

AOO: 298 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is unknown. However, it is fairly common in hill streams of northern Bangladesh (Rahman and Ruma 2007).

Trend: Information on the population of the species is currently not available.

Habitat and Ecology

Barilius barila inhabits freshwaters and occurs in large hill streams and shallow clear rivers along foothills. The fish is benthopelagic in habit and feeds on aquatic vegetation, crustaceans and insect larvae (Rahman and Ruma 2007).



Assessor: Balaram Mahalder

Associate Assessor/s: Md. Golum Mustafa

Devario aequipinnatus

Species ID: FI0077

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Devario aequipinnatus* (McClelland, 1839)

English Name: Giant Danio

Bengali Name: Chebli

Synonym/s: *Danio aequipinnatus* McClelland, 1839

Leuciscus aequipinnatus McClelland, 1839

Pteropsarion aequipinnatus McClelland, 1839

Danio aequipinnulus McClelland, 1839

Leuciscus lineolatus Blyth, 1858

Danio lineolatus Blyth, 1858

Taxonomic Notes: *Devario aequipinnatus* was described as *Danio devario* in IUCN Red Book of Threatened Species in Bangladesh (IUCN Bangladesh 2000) and as *Danio aequipinnatus* in Rahman (2005).



Devario aequipinnatus

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Devario aequipinnatus* occur at the surface in small high-gradient upland streams of hilly districts in Bangladesh including Jafong Waterfall (Sylhet), Hamham Waterfall (Sreemangal, Moulvibazar), Shuvolog and Bangchhari Puran Para Chara (Kaptai, Rangamati). There is no information on the population and trends for this species. So, it is assessed as Data Deficient.

Date Assessed: 17 August 2014

History

Regional Status: The species was considered Not Threatened (NO) in Bangladesh, (IUCN Bangladesh 2000).

Geographic Range

Global: *Devario aequipinnatus* is found in Bangladesh, Bhutan, Cambodia, China, India, Laos, Myanmar, Nepal, Pakistan, Sri Lanka and Thailand (Pethiyagoda 1994).

Bangladesh: It is found in small high-gradient upland streams of the hilly districts in Bangladesh, particularly in Greater Sylhet, Moulvibazar and Rangamati (Rahman 2005, Ahmed *et al.* 2015).

EOO: 56,944 km²

AOO: 84 km²

Population

Generation Time (Length): Unknown.

Total Population: There is no information on the population and its trends for this species, but recent faunal survey data suggest that it is uncommon in hilly streams (Kader 2007, Ahmed *et al.* 2015).

Trend: Unknown.

Habitat and Ecology

Devario aequipinnatus mainly feeds on worms, crustaceans and insects and moves in schools (Kader 2007). The fish is accustomed to live under varying water conditions in nature. It is peaceful and hardy in aquariums. Giant danios abound in running streams and rivers and are generally accustomed to moderately cool and well-aerated water. The species inhabits freshwaters and occur in still and slow-moving rivers and streams. It is particularly, found in shaded, mid-hill clear waters with pebble/gravel substrates. This fish is benthopelagic in hill streams up to an elevation of 300 m above mean sea level (Talwar and Jhingran 1991).



Assessor: Md. Sagir Ahmed

Esomus lineatus

Species ID: FI0080

DATA
DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Esomus lineatus* Ahl, 1923

English Name: Stripped Flying Barb

Bengali Name: Not known

Synonym/s: Not known

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: The occurrence of the species in Bangladesh is known from limited sources (Hossain *et al.* 2012, Froese and Pauly 2014). However, no other information is available on the species. So, the species is assessed as Data Deficient.

Date Assessed: 20 October 2014

History

Regional Status: This taxon has not been assessed earlier in Bangladesh.

Geographic Range

Global: This species was reported only from Bangladesh by Froese and Pauly 2014.

Bangladesh: The fish was reported from the mouth of the Ganges River once by Froese and Pauly 2014.

EOO: 1,451 km²

AOO: 161 km²



Esomus lineatus

© Mostafa A R Hossain

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

This fish inhabits fresh- and brackish waters and benthopelagic in nature (Froese and Pauly 2014).



Assessor: Mostafa Ali Reza Hossain

Bangana dero

Species ID: FI0089

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Bangana dero* (Hamilton, 1822)

English Name: Kalabans

Bengali Name: Kursha, Katal Kushi

Synonym/s: *Chondrostoma semivelatus* Valenciennes, 1844

Cyprinus dero Hamilton, 1822

Labeo dero Hamilton, 1822

Labeo rilli Chaudhuri, 1912

Sinilabeo dero Hamilton, 1822

Taxonomic Notes: In Bangladesh, this species has been described as *Labeo dero* (IUCN Bangladesh 2000, Rahman 2005, Rahman and Ruma 2007). *Bangana* was considered to be a Subgenus of the Genus *Labeo*. However, Subgenus *Bangana* has been upgraded to the Genus status, and Kullander *et al.* (1999) recognized the species as *Bangana dero*.



Bangana dero

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: The occurrence of *Bangana dero* in Bangladesh has only been mentioned by Rahman (2005). However, recent fish survey could not confirm its presence in the country (Ahmed *et al.* 2015). Moreover, no other report is available on this fish from Bangladesh. Hence, *Bangana dero* is assessed as Data Deficient.

Date Assessed: 20 January 2015

History

Regional Status: *Bangana dero* has been considered Not Threatened (NO) earlier in Bangladesh (IUCN Bangladesh 2000).

Geographic Range

Global: *Bangana dero* is found in Bangladesh, China, India and Nepal (Talwar and Jhingran 1991).

Bangladesh: It has been mentioned to be present in the rivers of Dinajpur, Rangpur and Mynensingh by Rahman (2005).

EOO: 20,218 km²

AOO: 206 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on the total population of this fish is not known.

Trend: Unknown.

Habitat and Ecology

Bangana dero inhabits freshwater hill-streams. This benthopelagic fish is a herbivore and mainly feeds on aquatic debris and detritus (Rahman and Ruma 2007). Adults of this fish inhabit torrential hill-streams in shallow waters (Talwar and Jhingran 1991). They migrate to warmer regions of lakes and streams during winter (Raina and Petr 1999).



Assessor: Md. Sagir Ahmed

Labeo dyocheilus

Species ID: FI0090

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Labeo dyocheilus* (McClelland, 1839)

English Name: Kalabans

Bengali Name: Kursha, Katal Kushi

Synonym/s: *Cyprinus dyocheilus* McClelland, 1839

Gobio bicolor McClelland, 1839

Labeo tezpurinensis Chaudhuri, 1912

Taxonomic Notes: Menon (1999) considered *Labeo dyocheilus* as a junior synonym of *Labeo pangusia* (Hamilton 1822).



Labeo dyocheilus

© Balam Mahalder

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: There is no confirmed report on the occurrence of the species in the country. So, *Labeo dyocheilus* is assessed as Data Deficient.

Date Assessed: 20 January 2015

History

Regional Status: The species was not assessed earlier in Bangladesh.

Geographic Range

Global: *Labeo dyocheilus* is found in Bangladesh, Bhutan, India, Myanmar, Nepal, Pakistan (Talwar and Jhingran 1991) and also recorded from Mekong Basin (Vidthayanon *et al.* 1997).

Bangladesh: The presence of this fish in Bangladesh has only been mentioned by Talwar and Jhingran (1991).

Population

Generation Time (Length): Unknown.

Total Population: No population estimate is available on this species.

Trend: Unknown.

Habitat and Ecology

This benthopelagic fish inhabits hill-streams, rivers and its adults live in clear active currents of large rivers (Talwar and Jhingran 1991). It is a migratory species (Hill and Hill 1994).



Assessor: Md. Sagir Ahmed

Labeo fimbriatus

Species Id: FI0091

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Labeo fimbriatus* (Bloch, 1795)

English Name: Fringed-lipped Peninsula Carp

Bengali Name: Not known.

Synonym/s: *Cirrhinus fimbriatus* Bloch, 1795

Cyprinus fimbriatus Bloch, 1795

Taxonomic Notes: None.

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Labeo fimbriatus* is noted to be present in Bangladesh by Menon (1999). However, no reports from Bangladesh confirms its occurrence in the country. Therefore, this species is assessed as Data Deficient.

Date Assessed: 25 February 2015

History

Regional Status: This species has not been assessed earlier in Bangladesh.

Geographic Range

Global: *Labeo fimbriatus* has been noted to occur in Bangladesh (Menon 1999), India, Myanmar, Nepal and Pakistan (Talwar and Jhingran 1991).

Bangladesh: Not known.



Labeo fimbriatus

© Mostafa A R Hossain

Population

Generation Time (Length): Unknown.

Total Population: Information on the total population is not available.

Trend: Unknown.

Habitat and Ecology

Labeo fimbriatus is a freshwater fish and found in rivers above tidal reaches and culture ponds (Menon 1999). This fish is potamodromous (Riede 2004). It is a herbivore (Talwar and Jhingran 1991).



Assessor: Jannatul Ferdous

Associate Assessor/s: Md. Selim Reza

Puntius puntio

Species ID: FI0103

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Puntius puntio* (Hamilton, 1822)

English Name: Puntio Barb

Bengali Name: Punt

Synonym/s: *Cyprinus puntio* Hamilton, 1822

Puntius brevis (Bleeker, 1860)

Barbus puntio (Hamilton, 1822)

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: There is no justifiable information to make a direct or indirect assessment of its risk of extinction only based on its Extent of Occurrence and Area of Occupancy. Neither present nor past data on population size, distribution pattern of this species throughout its ranges inside Bangladesh waters. Therefore, it is assessed as Data Deficient.

Date Assessed: 21 January 2015

History

Regional Status: It was considered as Data Deficient (DD) (IUCN Bangladesh 2000).

Geographic Range

Global: It occurs in Bangladesh, Cambodia, India and Myanmar (Rainboth 1996, Goswami *et al.* 2012).

Bangladesh: It is found in rivers, canals, beels, ponds and



Puntius puntio

© Balam Mahalder

inundated fields throughout Bangladesh.

EOO: 2,17,468 km²

AOO: 11,128 km²

Population

Generation Time (Length): Unknown.

Total Population: No information is available in wild population and its trends.

Trend: Unknown.

Habitat and Ecology

The fish inhabits mainly shallow waters of rivers, canals, beels and ponds. It prefers to live in tropical and sub-tropical climate. It is an omnivorous fish and feeds on wide variety of food like worms, crustaceans, insects and plant matter (Goswami *et al.* 2012).



Assessor: Md. Enamul Hoq

Raiamas guttatus

Species ID: FI0109

DATA
DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Raiamas guttatus* (Day, 1870)

English Name: Burmese Trout

Bengali Name: Not known

Synonym/s: *Barilius guttatus* (Day, 1870)

Opsarius guttatus Day, 1870

Bola harmandi Sauvage, 1880

Barilius harmandi (Sauvage, 1880)

Luciosoma fasciata Yang & Hwang, 1964

Taxonomic Notes: Day (1870) described *Opsarius guttatus* from Myanmar. Kottelat (2001) placed the species under the genus *Raiamas*.



Raiamas guttatus

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: There is no detailed information on the distribution and abundance of the species in the country. So, the species is assessed as Data Deficient.

Date Assessed: 22 September 2014

History

Regional Status: The species is not assessed before in Bangladesh.

Geographic Range

Global: *Raiamas guttatus* is found in Bangladesh, Cambodia, China, India, Malaysia, Myanmar, Nepal, Laos, Thailand and Viet Nam (Talwar and Jhingran 1991, Kottelat 2001).

Bangladesh: It is known to be present in Shomeswari River, Netrokona and Kangsha River, Mymensingh (M A R Hossain pers. comm).

EOO: 1,274.91 km²

AOO: 419.72 km²

Population

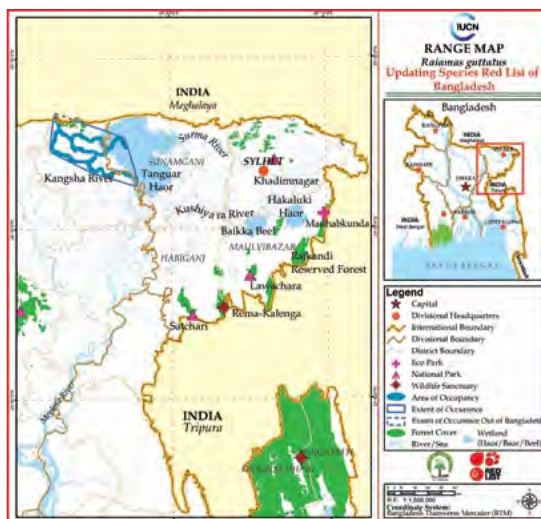
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Its diet consists of insects and small fishes. Inhabits shady areas and muddy bottoms in deep hill streams. It is found in medium to large-sized rivers, flooded fields and rapid-running mountain streams (<http://zipcodezoo.com/index.php/Raiamas>).



Assessor: Harunur Rashid

Associate Assessor/s: Mohammed Noman and Selina Sultana

Salmostoma sardinella

Species ID: FI0110

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Salmostoma sardinella* (Valenciennes, 1844)

English Name: Sardinella Razorbelly Minnow

Bengali Name: Not known.

Synonym/s: *Chela sardinella* (Valenciennes, 1844)

Leuciscus sardinella Valenciennes, 1844

Salmostoma sardinella poonpuni Tilak, 1967

Salmophasia sardinella (Valenciennes, 1844)

Chela untrahi (non Day, 1869)

Taxonomic Notes: In some documents the genus *Salmostoma sardinella* is described as *Salmophasia sardinella*. According to Doi (1997) this genus better fits as *Salmophasia*.



Salmostoma sardinella

© Mostafa A R Hossain

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Salmostoma sardinella* has been assessed as Data Deficient due to lack of any information on it, barring its mention in a checklist of fishes of Bangladesh.

Date Assessed: 16 October 2014

History

Regional Status: *Salmostoma sardinella* has not been assessed earlier in Bangladesh.

Geographic Range

Global: *Salmostoma sardinella* is found in Bangladesh, India (Ganges-Brahmaputra drainage, Orissa and Poonpun

river of Patna, Bihar) and Myanmar (Devi and Boguskaya 2009).

Bangladesh: Not known.

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Salmostoma sardinella is a freshwater benthopelagic species and occurs in the lower reaches of rivers.



Assessor: Mostafa Ali Reza Hossain

Danio annulosus

Species ID: FI0256

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

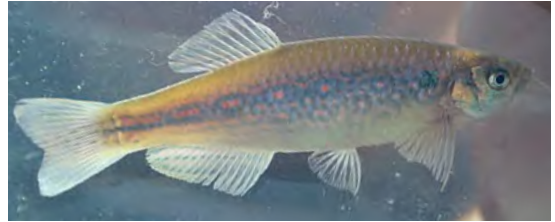
Scientific Name: *Danio annulosus* Kullander, Rahman, Norén & Mollah 2015

English Name: Chain Danio

Bengali Name: Chela

Synonym/s: Unknown

Taxonomic Notes: It is a new species of the genus *Danio* and distinguished from all other species of *Danio* except *D. assamila*, *D. dangila*, *D. catenatus*, *D. concatenatus*, and *D. sysphigmatus* by produced first ray in pectoral and pelvic fins, large cleithral spot, and pattern of dark rings enclosing light interspaces on the side. Distinguished from those species by slightly horizontally extended cleithral spot (vs. vertically extended in *D. dangila*, round in the other species), anterior interstripe Ia usually present (vs. absent in *D. dangila* and *D. catenatus*), ring pattern usually not extending onto caudal peduncle (vs. present on part of caudal peduncle in *D. dangila*, *D. catenatus* and *D. concatenatus*) (Kullander *et al.* 2015)



Danio annulosus

© Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Danio annulosus* is a new species, recently described from a single locality of hill streams (waterfalls) in Bangladesh. This species has been described based on its detail morpho-meristic study and DNA barcoding of a mitochondrial gene (COI) including its description of type locality. No data is available on population and distribution in other parts of the country. Therefore, it is assessed as Data Deficient.

Date Assessed: 25 August 2015

History

Regional Status: Unknown

Geographic Range

Global: It has so far recorded only from Bangladesh. (Kullander *et al.* 2015).

Bangladesh: *Danio annulosus* is so far known only from the type locality at the foot of Shuvolong Waterfall draining into the Kaptai Lake. Although recorded from only a single locality, it is expected to have a wider distribution in the Karnafully River drainage (Kullander *et al.* 2015).

EOO: 8,823 km²

AOO: 588 km²

Population

Generation Time (Length): Unknown.

Total Population: Total population of the species is unknown, but it is relatively less abundant in its locality.

Trend: Unknown.

Habitat and Ecology:

It is a rheophilic fish, prefers to live in the fast flowing cold water with sands, rocks and pebbles. It is found to live with shrimp, snails, and a small species of *Garra* (Kullander *et al.* 2015). Inhabits hill streams particularly in pool at the foot of the waterfall holding some pieces of rock but devoid of vegetation.

Assessor: Md. Mizanur Rahman

Associate Assessor/s: Sven O Kullander, Md. Abdur Rob Mollah, Michael Noren and Mohammed Noman



Laubuca brahmaputraensis

Species ID: FI0257

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	CYPRINIDAE

Scientific Name: *Laubuca brahmaputraensis* Kulabtong 2012

English Name: Not known

Bengali Name: Not known

Synonym/s: Not known

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Laubuca brahmaputraensis* has been recorded and described by Kulabtong *et al.* (2012) from the River Brahmaputra. Since then, there is no published or unpublished reports on the species from Bangladesh. Therefore, the species is assessed Data Deficient.

Date Assessed: 28 August 2015

History

Regional Status: This taxon has not been assessed in Bangladesh earlier for IUCN Red List.

Geographic Range

Global: *Laubuca brahmaputraensis* has so far been recorded only from Bangladesh (Kulabtong *et al.* 2012).

Bangladesh: This species is known only from Brahmaputra River in Bangladesh.



Laubuca brahmaputraensis

© Kulabtong, Suksri & Nonpayom

EEO: 1,711 km²

AOO: 278 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Unknown.



Assessor: Mostafa Ali Reza Hossain

Psilorhynchus rahmani

Species ID: FI0117

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	PSILORHYNCHIDAE

Scientific Name: *Psilorhynchus rahmani* Conway & Mayden, 2008

English Name: Hill stream Minnow

Bengali Name: Balichata

Synonym/s: Not known

Taxonomic Notes: *Psilorhynchus rahmani* is a new species described by Conway and Mayden (2008) from Chittagong, Bangladesh.

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Psilorhynchus rahmani* has an apparently restricted range. It is reported only from a small stream in Chittagong Division, Bangladesh (Conway and Mayden 2008) where it's total Extent of Occurrence (EOO) is approximately 321.09 km². It is likely to be present in other regions of the country. Further research is needed to determine its distribution, population, and threats. The species is, therefore, assessed as Data Deficient.

Date Assessed: 15 December 2014

History

Regional Status: The taxon has not yet been evaluated as it was described as a new species in 2008.

Geographic Range

Global: It is found only in Bangladesh (Conway and Mayden 2008).



Psilorhynchus rahmani

© Md. Mizanur Rahman

Bangladesh: *P. rahmani* is known to occur in a small hill stream north of Chittagong University (22°28'25.8"N, 91°46'59.3"E), Chittagong, Bangladesh.

EOO: 321 km²

AOO: 4 km²

Population

Generation Time (Length): Unknown.

Total Population: There is no information on the population and its trends for this species. Further survey is needed to determine whether this species is experiencing a population decline.

Trend: Unknown.

Habitat and Ecology

It inhabits primarily hill-streams with pebbles, cobbles and rocky bottom. It prefers to live in small hill streams requiring high levels of oxygen. It is generally a fast swimmer, occasionally rests on its spread paired fins and feeds mainly on zooplankton and phytoplankton.



Assessor: Md. Mizanur Rahman

Ambassis nalu

Specied ID: FI0199

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	AMBASSIDAE

Scientific Name: *Ambassis nalu* (Hamilton, 1822)

English Name: Scalloped Perchlet, Scalloped Glassfish

Bengali Name: Nalua Chanda

Synonym/s: *Chanda nalu* Hamilton, 1822

Taxonomic Notes: *Ambassis nalu* was originally described as *Chanda nalu* by Hamilton (1822) from freshwaters of lower Bengal. The species was reviewed by Allen and Burgess (1990).

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Ambassis nalu* is a very poorly studied species in the country and its occurrence in Bangladesh has been noted only in a checklist for freshwater fishes of Bangladesh (Hossain *et al.* 2012). Therefore, the species is assessed as Data Deficient.

Date Assessed: 15 February 2015

History

Regional Status: This taxon has not been assessed earlier in Bangladesh for IUCN Red List.

Geographic Range

Global: *Ambassis nalu* is known to occur in Australia, Bangladesh, India, Indonesia, Malaysia, Myanmar, Papua New Guinea, Philippines, Singapore and Thailand (Dahanukar 2012).



Ambassis nalu

© Mostafa A R Hossain

Bangladesh: There is no published reports on the occurrence and distribution of the species in the country. However, Hossain *et al.* (2012) mentioned it as a riverine fish of Bangladesh.

EOO: 2,17,468 km²

AOO: 9,400 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Ambassis nalu inhabits tropical fresh and brackish waters in bays, estuaries and tidal creeks and often in mangroves (Haywood *et al.* 1998, www.fishbase.org). It feeds on annelids, crustaceans (Brachyurans and Penaeids), molluscs and small teleosts (Haywood *et al.* 1998).



Assessor: Md. Mizanur Rahman

Anabas cobojus

Species ID: FI0255

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	ANABANTIDAE

Scientific Name: *Anabas cobojus* (Hamilton, 1822)

English Name: Gangetic Koi

Bengali Name: Koi

Synonym/s: *Coius cobojus* Hamilton, 1822

Anabas oligolepis Bleeker, 1855

Taxonomic Notes: This is a species complex. Probably, young *A. testudineus* is misidentified.

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: This species is found in tropical freshwaters and has been recorded from Bangladesh (Hossain *et al.* 2012) without specifically mentioning its distribution in the country. Moreover, there is no information on its population size or population trend, number of locations or quality of habitat in Bangladesh. Hence, *A. cobojus* is assessed as Data Deficient.

Date Assessed: 20 March, 2015

History

Regional Status: The species was not included in the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: It is found in Bangladesh, India and Nepal (Chaudhry *et al.* 2010).

Bangladesh: Unknown.



Anabas cobojus

© Md. Mizanur Rahman

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is known to be a very hardy fish and able to live out of water for protracted period. It has been said to inhabit beels, lakes, ponds, ditches and paddy fields. This fish has been recorded from many types of standing water bodies in countries other than Bangladesh.



Assessor: Mohammad Abdul Baki

Badis chittagongis

Species ID: FI0036

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	BADIDAE

Scientific Name: *Badis chittagongis* Kullander & Britz, 2002

English Name: Unknown.

Bengali Name: Unknown.

Synonym/s: *Badis badis* (Hamilton, 1822)

Taxonomic Notes: A new species endemic to the Chittagong hill areas in Bangladesh.

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: This is a new species of the genus *Badis* described from hill streams of Khagrachari District under the Chittagong Hill Tracts in 2002. Although, the estimated Extent of Occurrence (4,113.25 km²) and Area of Occupancy (17.79 km²) apparently qualify the species to be placed under IUCN threatened categories, however, since the fish is known only from two locations and information on its population distribution and abundance are not currently available, the fish is assessed as Data Deficient until further data become available.

Date Assessed: 25 June 2014

History

Regional Status: The taxon has not been evaluated earlier in Bangladesh because it has only been found as a new species in 2002.

Geographic Range

Global: Hill streams near Chittagong in Bangladesh,



Badis chittagongis

© Md. Mizanur Rahman

including the Matamohuri River drainage. No other material exist north of the type locality, in the adjacent Indian states of Tripura or Mizoram, or the eastern coast of Myanmar, but these areas are still to be properly surveyed (Kullander and Britz 2002, Froese and Pauly 2014).

Bangladesh: The species occurs only in the hill streams near Chittagong in Bangladesh (Kullander and Britz 2002).

EOO: 4,113 km²

AOO: 18 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on total population of the species is not available.

Trend: Information on the population trend of the fish is not currently available.

Habitat and Ecology

The taxon inhabits freshwater hill streams and it is benthopelagic in habit.



Assessor: Balaram Mahalder

Associate Assessor/s: Md. Golam Mustafa

Eleotris lutea

Species ID: FI0230

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	ELEOTRIDAE

Scientific Name: *Eleotris lutea* Day, 1876

English Name: Lutea sleeper

Bengali Name: Kuli, Gobi

Synonym/s: None

Taxonomic Notes: *Eleotris lutea* is sometimes confused with *E. fusca*. In *E. lutea* scales extend up to the eyes whereas in *E. fusca* predorsal scales extend up to the snout.

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: The species is reported from the Meghna estuary of Bangladesh (Rahman 1989). There is inadequate information to make a direct or indirect, assessment of its risk of extinction based on its distribution. So, *Eleotris lutea* is assessed as Data Deficient.

Date Assessed: 17 December 2014

History

Regional Status: It was not assessed in the Red List by IUCN Bangladesh 2000.

Geographic Range

Global: It is found in Bangladesh, Indian Ocean: India and Myanmar (Rahman 1989, Talwar and Jhingran 1991).

Bangladesh: This fish lives around the mouths of rivers or in brackish mangrove estuaries and sometimes penetrates



Eleotris lutea

© Md. Mizanur Rahman

freshwater. It has so far been reported only from the Meghna River Estuary (Rahman1989).

EOO: 12,355 km²

AOO: 46,971 km²

Population

Generation Time (Length): Unknown.

Total Population: There is no information on the population and its trend for this species.

Trend: Unknown.

Habitat and Ecology

Eleotris lutea is demersal, amphidromous, feeding mainly on small fishes, crustaceans and insects. Adults inhabit rivers, estuaries and freshwater (Talwar and Jhingran 1991). They occur in the lower reaches of freshwater streams, usually on mud bottoms.



Assessor: Md. Sagir Ahmed

Gobiopsis macrostoma

Species ID: FI0021

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	GOBIIDAE

Scientific Name: *Gobiopsis macrostoma* Steindachner, 1861

English Name: Longjaw Gobi

Bengali Name: Baila, Bayla

Synonym/s: *Gobius planifrons* Day, 1876

Pogonogobius planifrons Smith, 1945

Barbatogobius asanai Koumans, 1941

Taxonomic Notes: None



Gobiopsis macrostoma

© Md. Sagir Ahmed

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: This fish is known only from a secondary literature (Rahman and Akhter 2007) and from a single studied specimen of unknown origin of collection (Rahman 2005). It may be marine or estuarine species which enters freshwater. No data is available on its population size, population trend or threats. Therefore, it is considered as Data Deficient.

Date Assessed: 25 June 2014

History

Regional Status: It was not assessed before (IUCN Bangladesh 2000).

Geographic Range

Global: Bangladesh, Indo-West Pacific: Western India to the Mekong, India, Thailand (Talwar and Jhingran 1991, Rainboth 1996, Rahman 2005)

Bangladesh: It is found in Brahmaputra-Jamuna Rivers (Rahman and Akhter 2007).

EOO: 2,17,468 km²

AOO: 892 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It inhabits mud and rocky bottom of coastal waters, estuaries and tidal rivers. This demersal species feeds on small fishes, crustaceans and insects.



Assessor: Mohammad Arshad-ul-Alam

Associate Assessor/s: Mohammad Ali Azadi

Nangra bucculenta

Species ID: FI0258

DATA
DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	CYPRINIFORMES	SISORIDAE

Scientific Name: *Nangra bucculenta* Roberts and Ferraris, 1998

English Name: Not known

Bengali Name: Not known

Synonym/s: Not known

Taxonomic Notes: None



Nangra bucculenta

© Tyson R. Roberts & Carl J. Ferraris, Jr.

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Nangra bucculenta* – a new species described from a single location of a floodplain near Jamuna River by Roberts and Ferraris (1998). However, since then, there was no published literature on the occurrence of the species in Bangladesh. Hence, the species is assessed as Data Deficient.

Date Assessed: 28 August 2015

History

Regional Status: This taxon has not been assessed in Bangladesh earlier by IUCN Red List.

Geographic Range

Global: *Nangra bucculenta* is recorded from Bangladesh (Roberts and Ferraris 1998).

Bangladesh: The species has been reported from a floodplain of the Jamuna River basin in Tangail District, in Bangladesh (Roberts and Ferraris 1998).

EOO: 3,967 km²

AOO: 3,291 km²

Population

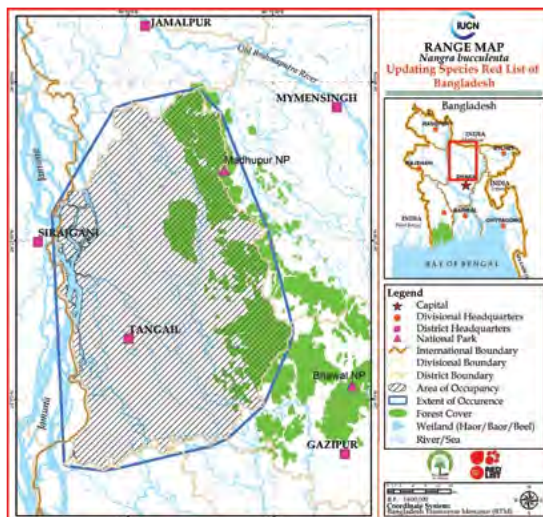
Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

This species is found in the swift-flowing rivers, typically with turbid water and a substrate of sand or fine gravel (Ng 2010).



Assessor: Mostafa Ali Reza Hossain

Mystus armatus

Species ID: FI0141

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	BAGRIDAE

Scientific Name: *Mystus armatus* (Day, 1865)

English Name: Kerala Mystus

Bengali Name: Tangra

Synonym/s: *Hypselobagrus armatus* Day, 1865

Macrones armatus Day, 1865

Mustus armatus Jayaram, 1977

Taxonomic Notes: None



Mystus armatus

© Balam Mahalder

Assessment Information:

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Mystus armatus* is one of the poorly described species among the freshwater fishes of Bangladesh. There is no adequate information on its distribution, population size and threats to assess the present status though its Extent of Occurrence and Area of Occupancy have been estimated as 33,018.93 km² and 214 km² respectively. However, it is unlikely to place this species under any Threatened Category with its insufficient data. Therefore, this species has been assessed as Data Deficient.

Date Assessed: 15 January 2015

History

Regional Status: It was considered as Data Deficient (DD) (IUCN Bangladesh 2000).

Geographic Range

Global: Its global range includes Bangladesh (Northwest

part and Sylhet District), India (Wynaad Range of Hills, Western Ghats and Nagaland) and Myanmar (Rahman 1989, Talwar and Jhingran 1991).

Bangladesh: It is distributed in the northwest part and hilly water bodies in Sylhet District (Rahman 2007).

EOO: 33,019 km²

AOO: 214 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Mystus armatus inhabits clear water in swift flowing hill streams with rocks and boulders. It consumes benthos and aquatic insects. This fish hides below rocks and boulders (Rahman 2007).



Assessor: Mohammed Noman

Associate Assessor/s: Selina Sultana

Pseudolaguvia inornata

Species ID: FI0177

DATA
DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	ERETHISTIDAE

Scientific Name: *Pseudolaguvia inornata* Ng, 2005

English Name: Painted Catfish

Bengali Name: Kani Tengra

Synonym/s: *Glyptothorax* sp. Rahman, 1989

Taxonomic Notes: This species has been identified as *Glyptothorax* sp. by Rahman (1989). Later, Ng (2005) described as *Pseudolaguvia inornata*.

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Pseudolaguvia inornata* has only been reported from Bangladesh by Ng (2005). But nobody else has reported its presence in the country. Information on its population size and trend, detail distribution threats, etc. are not currently available in Bangladesh. Hence, it is assessed as Data Deficient (DD).

Date Assessed: 20 February 2015

History

Regional Status: It was considered as Data Deficient (DD) (UCN Bangladesh 2000).

Geographic Range

Global: The species is recorded from Bangladesh (Rahman 1989).



Pseudolaguvia inornata

© Heok Hee Ng

Bangladesh: It is found in Feni River and Koilla Khal in Ramghar, Chittagoang (Rahman 1989).

EOO: 768 km²

AOO: 29 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It inhabits clear, shallow, moderately flowing stream with a predominantly sandy bottom.



Assessor: Md. Sagir Ahmed

Pseudolaguvia muricata

Species ID: FI0178

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	ERETHISTIDAE

Scientific Name: *Pseudolaguvia muricata* Ng 2005

English Name: Painted Catfish Gudgeon

Bengali Name: Kani Tengra

Synonym/s: Not Known.

Taxonomic Notes: This species was described as *Glyptothorax* sp. in Bangladesh (Rahman 2005).

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: There is insufficient information on the distribution, population abundance and trend, biology, ecological requirements and threats to the species. *Pseudolaguvia muricata* is, therefore, assessed as Data Deficient.

Date Assessed: 21 February 2015

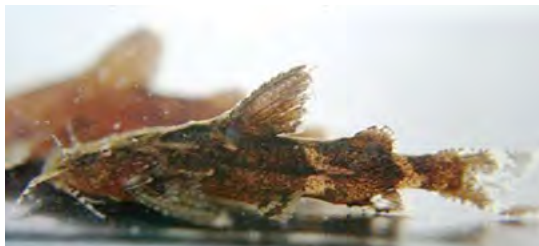
History

Regional Status: This taxon has not been assessed earlier in Bangladesh for IUCN Redlist.

Geographic Range

Global: *Pseudolaguvia muricata* is found in Bangladesh and India (Ng 2010).

Bangladesh: The fish is stated to be present in the Brahmaputra River drainage in northern Bangladesh (Rahman and Chowdhury 2007). Several specimens



Pseudolaguvia muricata

© Adrian Taylor

were collected from the Jagat River in Rangpur (Rahman and Chowdhury 2007). It has also been reported from Rangapani Khal Creek of Sylhet District (Ng 2005), Jubaneshwari River and Ghaghat River of Rangpur District, Tangam River of Dhinajpur District and Brahmaputra River drainage in Bangladesh (Ng 2010).

EEO: 33,153 km²

AOO: 422 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

The fish is considered a minor predator among the benthic population of the aquatic ecosystem (Rahman and Chowdhury 2007). It inhabits clear, shallow, slow-flowing freshwater streams and adjacent rivers with a mixed substrate of sand and detritus (Ng 2005). In the Tista River, its habitat is a swift and turbid river with a substrate of sand and rocks (Ng 2010).



Assessor: Md. Monirul Islam

Pseudolaguvia ribeiroi

Species ID: FI0179

DATA
DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	ERETHISTIDAE

Scientific Name: *Pseudolaguvia ribeiroi* (Hora, 1921)

English Name: Painted Catfish

Bengali Name: Kani Tengra

Synonym/s: *Laguvia ribeiroi* Hora, 1921

Glyptothorax ribeiroi Menon, 1954

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Pseudolaguvia ribeiroi* has been reported only from Mahananda River in Rajshahi District and Koila Khal of Ramgarh in Khagrachhori District (Rahman 2005, Alam 2007). Because of insufficient information available on its distribution, population abundance and trend, threats and other biological data, it is assessed as Data Deficient.

Date Assessed: 20 March 2015

History

Regional Status: This taxon has not been assessed earlier in Bangladesh for the IUCN Red List.

Geographic Range

Global: It is found in Bangladesh, India and Nepal (Ng 2010).

Bangladesh: The fish is reported from the Mahananda River near Tetulia and Koilla Khal on the road to Ramgarh, Khagrachhori District (Rahman 2005, Alam 2007).



Pseudolaguvia ribeiroi

© Mostafa A R Hossain

EOO: 10,674 km²

AOO: 251 km²

Population

Generation Time (Length): Unknown.

Total Population: Information on the total population of the species is not available. However, it is stated to be rare within its distribution range in Bangladesh (Alam 2007).

Trend: Unknown.

Habitat and Ecology

It feeds on worms and insects. This species inhabits pools and run off areas of swift freshwater streams (Alam 2007).



Assessor: Gawsia Wahidunnessa Chowdhury

Pseudolaguvia shawi

Species ID: FI0180

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	ERETHISTIDAE

Scientific Name: *Pseudolaguvia shawi* (Hora, 1921)

English Name: Shaws Catfish

Bengali Name: Kani Tengra

Synonym/s: *Laguvia shawi* Hora, 1921

Glyptothorax shawi Menon, 1954

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Pseudolaguvia shawi* has been report from Bangladesh by Rahman (2005) and Islam (2007). But detailed information are not available on its distribution, population size, population trend, fand threats to determine its conservation status. Hence, it is assessed as Data Deficient.

Date Assessed: 20 March 2015

History

Regional Status: This species has been considered earlier in Bangladesh as Data Deficient (IUCN Bangladesh 2000).

Geographic Range

Global: This species is known from the Brahmaputra and Tista River drainage in India and Bangladesh (Islam 2007, Ng 2010).

Bangladesh: It is reported from the Tangan River in Dinajpur District and the Kangsha River in Netrokona



Pseudolaguvia shawi

© Mostafa A R Hossain

District (Rahman 2005) and occasionally found in Tista River (Islam 2007).

EOO: 15,575 km²

AOO: 171 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It remains attached to the bottom of rivers by means of its thoracic adhesive pads. This fish feeds on small invertebrates (Islam 2007). It inhabits clear, shallow, moderately flowing freshwater streams with a predominantly sandy bottom.



Assessor: Gawsia Wahidunnessa Chowdhury

Glyptothorax cavia

Species ID: FI0165

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Glyptothorax cavia* (Hamilton, 1822)

English Name: Cat Fish

Bengali Name: Kani Tengra

Synonym/s: *Pimelodus cavia* (Hamilton, 1822)

Bagarius cavia (Hamilton, 1822)

Glyptostemum cavia (Hamilton, 1822)

Euglyptosternum lineatum (Day, 1877)

Glyptothorax lineatus (Day, 1877)

Taxonomic Notes: None



Glyptothorax cavia

© Chinese Academy of Fishery Science, Inform

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: It is found in canals, beels, haors and also in the hill streams of Bangladesh as occasionally in incidental catches and no record on its trend and population is available. Since there is little information on the biology and threat of this species, it is assessed as Data Deficient.

Date Assessed: 06 August 2014

History

Regional Status: It has not been assessed earlier in Bangladesh.

Geographic Range

Global: The species is found in Bangladesh, China, India, Myanmar, Nepal, and Pakistan (<http://www.planetcatfish.com>).

Bangladesh: It is rarely found in canals, beels, haors and mostly southern part of Bangladesh.

EOO: 1,82,094 km²

AOO: 18,102 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

This species inhabits swift-flowing larger rivers with a substrate of sand and rocks. It is known to take only live food, like blood worms.



Assessor: Md. Golam Mustafa

Associate Assessor/s: Selina Sultana and Mohammed Noman

Glyptothorax indicus

Species ID: FI0166

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Glyptothorax indicus* Talwar, 1991

English Name: Sylhet Hara

Bengali Name: Teli, Telchitta

Synonym/s: *Glyptothorax horai* Shaw & Shebbeare, 1936

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Glyptothorax indicus* has been reported from some selected hill streams of Bangladesh (Ahmed 2005). It appears rarely in catches. As information on its distribution, population and potential threats are lacking, the species is assessed as Data Deficient.

Date Assessed: 20 February 2015

History

Regional Status: This taxon has been considered as Data Deficient in Bangladesh IUCN Red List 2000.

Geographic Range

Global: It has been reported from Bangladesh, India, Nepal and Pakistan (Rahman 1989, Talwar and Jhingran 1991, Ahmed 2015).

Bangladesh: Collected from the up streams of Sangu River, Bandarabans (Ahmed 2015). It might occur in other hill streams of Bangladesh too.



Glyptothorax indicus

© Md. Mizanur Rahman

EOO: 1,74,915 km²

AOO: 3,110 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It inhabits primarily hill streams with rocky boulders and fast flowing waters (Rahman 1989, Ahmed et al. 2015). It is also occasionally found in a large river with high, turbid monsoon flow and with diverse substrate consisting of sand, mud, gravel, pebble, cobble and boulders.



Assessor: Md. Sagir Ahmed

Nangra ornata

Species ID: FI0172

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Nangra ornata* Roberts and Ferrairis, 1998

English Name: Unknown.

Bengali Name: Gang Tengra

Synonym/s: Unknown.

Taxonomic Notes: None



Nangra ornata

© Tyson R. Roberts & Carl J. Ferraris, Jr.

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Nangra ornata* has only been reported from northeastern Bangladesh when the species was founded based on type specimens collected from this region (Roberts and Ferrairis 1998). No other information is available on its distribution and population from Bangladesh waters. Thus, *Nangra ornata* is assessed as Data Deficient.

Date Assessed: 19 January 2015

History

Regional Status: This taxon has not yet been assessed for the IUCN Red List.

Geographic Range

Global: The species has only been reported from Bangladesh (Roberts and Ferrairis 1998).

Bangladesh: This species inhabits swift-flowing rivers typically with turbid water and a substrate of sand or fine gravel (Ng 2010).

EOO: 2,17,468 km²

AOO: 9,400 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It has been recorded from the freshwater rivers (Hossain *et al.* 2012). This species inhabits swift-flowing rivers, typically with turbid water and a substrate of sand or fine gravel of ponds, irrigation channels and rice fields (Ng 2010).



Assessor: Gawsia Wahidunnessa Chowdhury

Pseudecheneis sulcata

Species ID: FI0173

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Pseudecheneis sulcata* (McClelland, 1842)

English Name: Sucker throat catfish

Bengali Name: Unknown.

Synonym/s: *Glyptosternon sulcatus* McClelland, 1842

Taxonomic Notes: None

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Pseudecheneis sulcata* has been enlisted from Bangladesh by Rahman (2005) and Hossain *et al.* (2012) without any specimen or sight record from the country. So, the species is assessed as Data Deficient.

Date Assessed: 19 January 2015

History

Regional Status: The taxon has been assessed as Data Deficient (IUCN Bangladesh 2000).

Geographic Range

Global: It occurs in Bangladesh, China, India, Myanmar and Nepal (Shrestha 1990, Rahman 2005).

Bangladesh: This species is found in the swift hill streams, typically with torrential areas and riffles, and a substrate of coarse gravel and fine sand mixed with rock in Bangladesh (Shrestha 1990, Ng 2010). According to Hossain *et al.* (2012), this species has also been found in freshwater rivers in Bangladesh.



Pseudecheneis sulcata

© Julian Dignall

EOO: 56,945 km²

AOO: 821 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

This species prefers to inhabit in fast-flowing hill streams also in deep riffles and runs over gravel, cobble substrates (Shrestha 1990).



Assessor: Gawsia Wahidunnessa Chowdhury

Bagarius yarrelli

Species ID: FI0254

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	SILURIFORMES	SISORIDAE

Scientific Name: *Bagarius yarrelli* (Sykes, 1839)

English Name: Goonch

Bengali Name: Baghair, Baghari, Bagh Machh

Synonym/s: *Bagrus yarrelli* Sykes, 1839

Pimelodus carnaticus Jerdon, 1849

Bagarius bagarius Weber & de Beau-fort, 1913

Bagarius nieuwenhuisii Popta, 1904

Taxonomic Notes: There is a taxonomic confusion among the species of *Bagarius yarrelli*, in particular between *Bagarius bagarius* and *Bagarius yarrelli*. In the most of the reports and studies of Bangladesh, all Goonch or Devil catfish have been described only as *Bagarius bagarius*. Still there is tremendous ambiguity among the reserchers about its proper identification in Bangladesh waters. Most authors in Bangladesh considered large sized one as *B. bagarius* and most data are available on the large sized one. The IUCN Redlist (2000) assessed the large one as *B. yarrelli* and categorized as Critically Endangered species. However, the major compilation of Bangladeshi fish, like Rahman (2005) and Alam (2007) described the large one as the *B. bagarius*.



Bagarius yarrelli

© Mostafa A R Hossain

Date Assessed: 15 January 2015

History

Regional Status: The IUCN Redlist (2000) assessed the large one as *B. yarrelli* and categorized as Critically Endangered species.

Geographic Range

Global: *Bagarius yarrelli* has been reported from Bangladesh, China, India and Nepal (Rainboth 1996).

Bangladesh: It is likely to be found in the upstream of the hilly rivers of Bangladesh particularly Kongsho, Somesswari of Netrokona District; the Shurma, Kushiara and Pyiang river of Sylhet; the Shangu river of Bandarban; also may found in the floodplains of Netrokona and Mymensingh Districts with *Bagarius bagarius*.

EOO: 60,537 km²

AOO: 6,000 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

Like *Bagarius bagarius*, it prefers flowing waters and lives under stones and it is likely to be carnivorous and predatory fish feeds on small fishes, prawns. etc. This species inhabits a variety of fluviatile habitats, although it is typically associated with swift, clear rivers with a substrate of rocks and sand (Ng 2010).

Assessor: Md. Abdur Rob Mollah

Associate Assessor/s: Md. Mizanur Rahman

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: Irrespective of the confusion surrounding the taxonomy of this species, the currently known populations of *Bagarius yarrelli* are likely caught in different parts of its range with *B. bagarius* as food fish. However, there is no confirmed information on its distribution, abundance and population size to assess the status of this species. Therefore, *Bagarius yarrelli* has been assessed as Data Deficient.



Macrognathus aral

Species ID: FI0240

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	PERCIFORMES	MASTACEMBELIDAE

Scientific Name: *Macrognathus aral* (Bloch & Schneider, 1801)

English Name: One-stripe Spiny Eel

Bengali Name: Tara Baim

Synonym/s: *Rhynchodella aral* Bloch and Schneider, 1801
Macrognathus jammuensis Malhotra & Singh Dutta, 1975

Taxonomic Notes: *Macrognathus aral* is very poorly studied species with huge taxonomic ambiguity with other species of *Macrognathus*. Recently, its taxonomy has been confirmed through DNA barcoding of mitochondrial Cytochrome Oxidase I (COI) gene (Ahmed *et al.* 2015).

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: *Macrognathus aral* has been noted from the country without sufficient published or available information covering its population and distributional range. So, the species is assessed as Data Deficient.

Date Assessed: 15 January 2015

History

Regional Status: It was not assessed in the Red List of IUCN Bangladesh 2000.

Geographic Range

Global: *Macrognathus aral* is widely distributed throughout



Macrognathus aral

© Md. Mizanur Rahman

Bangladesh, India, Nepal and Pakistan. It is present in most of the Ganges drainage but scarcer in numbers in Nepal (Vishwanath 2010).

Bangladesh: There is no particular literature about its distribution in the country except in the Fishbase database and in a checklist of riverine fish prepared by Hossain *et al.* (2012). However, it may suspected to be found in riverine waterbodies with other *Macrognathus* species particularly in the Brahmaputra, Padma, Jamuna rivers and its adjacent floodplain areas.

EOO: 50,252 km²

AOO: 15,219 km²

Population

Generation Time (Length): Unknown.

Total Population: Unknown.

Trend: Unknown.

Habitat and Ecology

It is a nocturnal feeder, consuming insects and worms in lowland habitats and at moderate elevation in all the larger river systems (Vishwanath 2010) outside Bangladesh. *M. aral* occurs in running and stagnant waters. Found in fresh and brackish waters and deltas of large rivers, common in ponds and slow flowing rivers with vegetation in plains. Inhabits still waters with silt or mud substrate. Believed to be common in rice paddy fields (Vishwanath 2010).



Assessor: Md. Abdur Rob Mollah

Chelonodon patoca

Species ID: FI0250

DATA DEFICIENT
<DD>

Taxonomy

Kingdom	Phylum	Class	Order	Family
ANIMALIA	CHORDATA	ACTINOPTERYGII	TETRAODONTIFORMES	TETRAODONTIDAE

Scientific Name: *Chelonodon patoca* (Hamilton, 1822)

English Name: Milkspotted Puffer, Marbled Toad, Gangetic Puffer

Bengali Name: Potka, Tapa

Synonym/s: *Tetraodon patoca* Hamilton, 1822
Tetraodon dissutidens Cantor, 1849
Tetraodon kappa Bleeker, 1850

Taxonomic Notes: The species was first described by Hamilton (1822) as *Tetraodon patoca*.



Chelonodon patoca

© IUCN/ Mohammed Noman

Assessment Information

Red List Category & Criteria: Data Deficient (DD) ver 3.1

Justification: The species is assessed as Data Deficient because there is inadequate information to make a direct or indirect assessment of its risk of extinction based on its distribution. Its biology and toxicity are well known but data on abundance and/or distribution are lacking.

Date Assessed: 17 September 2014

History

Regional Status: It was assessed as Not Threatened (IUCN Bangladesh 2000).

Geographic Range

Global: Its range includes Indo-Pacific: East Africa to the Admiralty Islands, New Britain and Trobiand Islands, north to China, south to northern Australia.

Bangladesh: It is conjectured to be found around the mouths of rivers or in brackish mangrove estuaries (Sundarbans) (Huda and Haque 2003) and sometimes it penetrates freshwater but is never found more than a few km from the sea.

EOO: 77,285 km²

AOO: 16,594 km²

Population

Generation Time (Length): Unknown.

Total Population: There is no information on the population and its trend for this species.

Trend: Unknown.

Habitat and Ecology

It is an omnivorous and anadromous fish. Its skin, muscle, liver and gonads are known to be highly toxic and contains paralytic shell fish poison (PSP) (Mahmud *et al.* 2001, Noguchi and Ebesu 2001, Ahmed *et al.* 2002). It inhabits coastal waters and enters the lower reaches of rivers and lagoons (Talwar and Jhingran 1991). It occurs in sand and mudflats, usually in estuaries.



Assessor: Md. Sagir Ahmed