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Catalogue of Fish species from Northeastern States of India being deposited in the Referral Museum College of Fisheries CAU (I), Lembucherra, Agartala, Tripura- Part I

Dr. Rani Dhanze, Dr. C Wanglar and Dr. JR Dhanze

Abstract

The Northeastern region is endowed with rich diversity of fish genetic resources, which have been surveyed regularly for the last five years (2013-2018), as a result 22,676 specimens of different fish species collected and being identified by the experts. Of this huge collection 2390 specimens belonging to 162 species, 78 genera and 33 families have been authentically identified, however only 1178 specimens belonging to 157 species, 76 genera, and 32 families of 10 orders have been catalogued in part I by assigning a unique registration No. for future referral study. This is not the final catalogue as the taxonomic study is still in progress and would be published as Part II so as to have a comprehensive database with referral material of the fish diversity in the region for the implementation of proper planning and conservation strategies.

Keywords: Fish diversity, distributional pattern, geographic isolation, abundance, taxonomy, catalogue

1. Introduction

The eight Northeastern states of India with an unique geographic location situated at the tri-junction of the Indo-Malayan and Eastern Palaearctic biogeographic realms encompasses a profusion of varied aquatic habitats characterised by diverse biota with a high level of endemism [3, 7]. The entire region is endowed with rich diversity of natural renewable water resources and biodiversity with contiguity to Chinese and Southeast Asian countries. One-third of India's runoff flows from the Northeast through the Brahmaputra and Barak rivers drainage system into the Bay of Bengal, traversing plain of Bangladesh [6]. However, the drainage of a small area of Eastern Manipur, Nagaland and Mizoram, finds its way into Chindwin, a tributary of Irrawaddy, which flows through Yangon (Rangoon) traversing its delta and falls into the Gulf of Martaban, a part of Andaman Sea [7]. In view of this uniqueness of zoogeographic region the attention of scientists in various fields from all over the country is focused here to inventories different genetic resources with their higher degree of endemism for proper planning, management and conservation. Though, Northeastern region of India has attracted a number of workers for Ichthyotaxonomy such as Hamilton [10], Gray [9], McClelland [15, 16], Muller & Troschel [19], Playfair [22], Day [5], Chaudhuri [4], Mukherji [18], Menon [17], Jayaram [11, 12] and significant contributions were made by Vishwanath and Lakara [24], Nath & Dey [20], Tilak & Hussain [23], Barman [2, 3], Arunkumar [1], Kullander & Britz [14], Ng [21], Yadav & Dhanze [25] with their findings on the biosystematics of fish species of the region. But despite of this enormous work, the ambiguity in species identification still persists as the students and researchers of this region are not able to access the type material in as much as either the authors have not deposited their material at one designated national repository or most of the types are properly maintained at far of places either in (BNHM) London, (MCZ) Harvard, (UMMZ) Michigan, (MNHN) Paris, Indian Museum, (ZSI) Kolkata or some time in poorly maintained condition in the different University Museum of the country [12]. In this context a team of researchers comprising faculty members of COF, CAU and the experts from other Institutions are contributing effectively in inventorisation of fish faunal resources of the region by conducting systematic extensive surveys of all the major drainage system of entire Northeastern States under the project "Centre of Excellence for fishery and Aquaculture

Biotechnology for Northeast". As a result a huge collection of fish comprising more than 22,676 specimens of different species have been made during the last five years (2013-2018). The systematic investigation based on both classical as well as molecular tools for the authentic identification of this huge collection is in progress by the expertise in different field of ichthyology so as to compile a comprehensive data base. The envisaged programme of cataloguing aims at the state of the art of our knowledge of the diversity of freshwater fishes of Northeast India. This catalogue is not the ultimate inventory of the fishes of Northeast India. Many discoveries are still ahead of us and a great amount of work remains to be done before we reach an acceptable level of knowledge. Taxonomy and systematic have two main goals, one is primarily of academic interest: the study of the diversity of living organisms and their phylogenetic relationships. The other is of immediate practical interest: inventories, surveys, documentation of biodiversity, and the compilation of identification tools for the perspective planning [12]. The management of natural resources needs information on numbers of species with their authentic identification for the need based planning.

2. Materials and Methods

The fishes were collected from entire Northeast Region of India (Fig. 1), and have been identified based on classical and

molecular taxonomic tools [3, 12, 17] and deposited in CAU-COF museum as a reference collection for future scientist and researchers who may take up the revisionary work keeping in view the cryptic species being discovered by molecular techniques that perhaps have been cryptic not because taxonomists could not distinguish them, but because no trained taxonomist ever had an opportunity to examine them [12]. Therefore, all possible efforts have been made to identify and catalogue the species along with pertinent data of, abundance, size range, distributional status, date of collection, collector and submitted by in the abbreviated form e.g. (*Mastacembelus oatesii* Boulenger, 1893 – COF-CAU-0265, 5x153-160mm SL, Sihhimui River, Talwang, Mizoram, "Coordinates", 21.11.2013, Coll. Samar & Zama, Sub. R. Dhanze), following the standard norms of International Code of Zoological nomenclature by the taxonomist. So far altogether 162 species comprising 2390 specimens have been catalogued, deposited by various experts working on different aspects of ichthyology in the region. The detailed taxonomic data and the authenticity of the identification rest with the scientist who has deposited the material and published elsewhere. The sign "???" in respect of a few attributes indicates data deficit either at the end of collector or the expert who deposited the material in this catalogue.

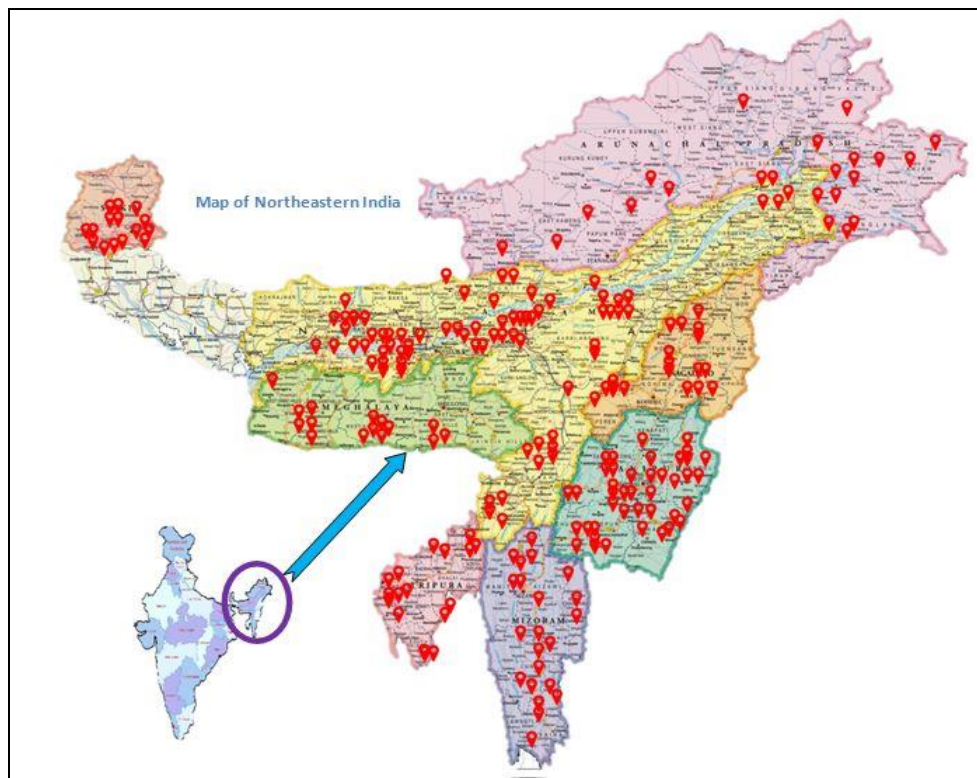


Fig 1: Location of Fish specimens collected from Northeastern States

3. Results

Baessed on the authentic identification, material deposited and catalogued in the Museum includes 1178 specimens belonging to 157 species, 78 genera, and 32 families of 10 orders as detailed below. The identification of species is mainly based on the classical taxonomy, besides some of the specimens identified based on the molecular tools. The identification keys and photographs are provided by different authors who have submitted the material for cataloguing and published their findings elsewhere [3, 6-8].

3.1 Order – Osteoglossiformes

3.1.1 Family- Notopteridae

3.1.1.1 *Chitala chitala* (Pallas 1769): COF-CAU-0177, 1x360mmSL, Payapem Bheel, Rangapani, Assam, 26°41'188"N 92°48'978"E, 22.10.2016, Coll. P. Biswas & Party, Sub. R. Dhanze.

3.1.1.2 *Notopterus notopterus* (Pallas 1769): COF-CAU-0023, 1x216.42mmSL, Gomati River, Bandwar, Tripura, 20.05.2013, Coll. A. Das, Sub. P. Bhattacharjee; COF-CAU-

0065, 5ex??SL, Kalu River, Garobadha, Meghalaya, 25°34'377N 090° 01'298"E, 20.03.2013, Coll. AS. Barman, Sub. R. Dhanze; COF-CAU-0094, 1ex??SL, Serlui River, Reiek kai, Mizoram, 23°42'317"N 092°40'280" E, 29.08.2013, Coll. AS. Barman, Sub. R. Dhanze; COF-CAU-0170, 1ex??SL, Umphulen River, Bamlir, Meghalaya, 25°44'326"N 091°98'504"E, 29.06.2016, Coll. YJ. Singh & Party, Sub. KV. Radhakrishnan.

3.2 Order - Anguilliformes

3.2.1 Family- Anguillidae

3.2.1.1 *Anguilla bengalensis* (Gray 1831): COF-CAU-0140, 1ex??SL, Khujai River, Yuzang, Manipur,??, 08.05.2016, Coll. KS. Singh & B. Hijam, Sub. KS. Singh.

3.3 Order – Clupeiformes

3.3.1 Family- Clupeidae

3.3.1.1 *Gudusia chapra* (Hamilton 1822): COE-CAU-0031, 20ex??SL, Gomti River, Battali, Tripura, 23°29'807"N 91°19'911"E, 10.08.2016, Coll. P. Debnath & A. Husain, Sub. P. Bhattacharjee; COF-CAU-0066, 2ex??SL, Kalu River, Garobadha, Meghalaya, 25°34'377"N 90°01'298"E, 20.03.2013, Coll. AS. Barman, Sub. R. Dhanze; COF-CAU-0234, 1ex85mmSL, Brahmaputra River, Kaliabharma, Assam, 26°37'420"N 92°26'641"E, 21.10.2016, Coll. P. Biswas & Party Sub. KV. Radhakrishnan;

3.4 Order – Cypriniformes

3.4.1 Family- Balitoridae

3.4.1.1 *Balitorabrucei*(Gray1830): COF-CAU-0247, 1ex6.1mmSL, Yammuen River, Gueing, Arunachal Pradesh, 28°15'315" N 95°12'963" E, 24.03.2016, Coll. JR. Dhanze & Party, Sub. JR. Dhanze.

3.4.2 Family- Cobitidae

3.4.2.1 *Botia dario* (Hamilton 1822): COF-CAU-0032, 2 ex??SL, Gomati River, Pitra Locchapara, Tripura, 19.05.2013, Coll. A. Das, Sub. P. Bhattacharjee; COF-CAU-0131, 1ex??SL, Kachua River, Naigram, Assam, 24°05'524"N 92°25'291"E, 10.08.2016, Coll. P. Biswas & Party, Sub. KV. Radhakrishnan.

3.4.2.2 *Lepidocephalichthys bermorei* (Blyth 1960): COF-CAU-0139, 1ex??SL, Chakpi River, Laarfuw, Manipur, 24°19'077"N94°07'388"E, 30.04. 2016, Coll. KS. Singh, & B.Hijam, Sub. AS. Barman

3.4.2.3 *Lepidocephalichthys guntea* (Hamilton 1822): COF-CAU-0071, 4ex??SL Jinjiramam River, Lalmati, Meghalaya, 24°45'512"N 89°57'160"E, 21.03.2013, Coll. AS. Barman, Sub. R. Dhanze; COF-CAU-0098, 8ex??SL, Tut River, Dapchhuah, Mizoram, 23°46'303"N 92°31'162"E, 15.09.2013, Coll. AS. Barman.

3.4.2.4 *Syncrossus bermorei* (Blyth 1861): COF-CAU-0138, 1ex??SL, Lokchao River, Longthanpa, Manipur, 07.05.2016, Coll. KS. Singh, & B. Hijam, Sub. AS. Barman.

3.4.3 Family- Cyprinidae

3.4.3.1 *Amblypharyngodon mola* (Hamilton 1822): COE-CAU-0076, 3ex??SL, Jinjiramam River, Lalmati, Meghalaya, 25°45'512"N 89°57'160"E, 21.03.2013, Coll. AS. Barman, Sub. R. Dhanze; COE-CAU-0101, 8ex??SL, Tuichang River, Aizawl Seling chaph road, Mizoram, 23°33'545"N

93°06'170"E, 28.08.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.4.3.2 *Aspidoparia jaya* (Hamilton 1822): COE-CAU-0120, 2ex??SL, Deo River, Kanchanpur, Tripura, 24°02'335"N 092°11'805"E, 24.08.2013, Coll. P. Debnath, Sub. R. Dhanze.

3.4.3.3 *Bangana dero* (Hamilton 1822): COE-CAU-0054, 2ex,234.38-282.14mmSL, Kameng River, Lower Bhalukpong, Arunachal Pradesh, 27°01'084"N 092°38'217"E, 16.05.2016, Coll. JR. Dhanze & Party, Sub. JR. Dhanze; COF-CAU-0272, 2ex97.85mmSL Khujai River, Yuzang, Manipur, 28°24'16"N 052°34'19"E, 08.05.2015, Coll. B. Hijam, Sub. R. Dhanze; COF-CAU-0290, 1ex, (143.6mm SL, Simari River, Simari, Arunachal Pradesh, 28°05'834" N 095°83'915" E, 27.03.2016, Coll. JR.Dhanze & B. Hijam, Sub. R. Dhanze; COF-CAU-0357, 45ex84.49-147.76mmSL, Tatching River, Borguli, Arunachal Pradesh, 22°59'160"N 094°40'569" E, 23. 03. 2016, Coll. JR. Dhanze & B. Hijam, Sub. JR. Dhanze; COF-CAU-0358, 6ex78.28-165.46mm SL, Tatching River, Borguli, Arunachal Pradesh, 28°00'523"N 095°27'857"E, 23.03.2016, Coll. JR. Dhanze & B. Hijam, Sub. JR. Dhanze; COF-CAU-0554, 5ex74.27-88.40mmSL, Deo River, Kumarghat, Tripura, 24° 09.809'N 92° 02.206'E, Alt.24m, 20. 10. 2014, Coll. P. Debnath and A. Hossain, Sub. K. Yadav; COF-CAU-0556, 2ex,100.2-107.07mm SL, Naodihing River, Miao, Arunachal Pradesh, 27° 29.400' N 96° 12.430'E, Alt.252m, 13. 05. 2017, Coll. KV. Radhakrishnan, Sub. K. Yadav; COF-CAU-0561, 1ex154.44mmSL, Serum River, Serum, Arunachal Pradesh, 27°59.922'N 95°28.446'E, 21. 03. 2016, Coll. JR. Dhanze & Party, Sub. K. Yadav; COF-CAU-0562, 3ex95.08–102.58mmSL, Siang River, Parting, Arunachal Pradesh, 28°00.588'N 95°23.296"E, 20. 03. 2016, Coll. JR. Dhanze & Party, Sub. K. Yadav; COF-CAU-0563, 1ex90.69mmSL, Naodihing River, Miao, Arunachal Pradesh, 27°29.400'N 96°12.430'E, Alt.252m, 13. 06. 2017, Coll. KV. Radhakrishnan, Sub. K. Yadav; COF-CAU- 0564, 1ex168.15mmSL, Siang River, Ranaghat Arunachal Pradesh, 28°05.391'N 95°19.041'E, 19. 03. 2016, Coll. JR. Dhanze, Sub. K. Yadav; COF-CAU-0565, 1ex125.80mmSL, Lokchao River, Satleai, Manipur, 24°18.846'N 94°22.077'E, 06. 05. 2016, Coll. B. Hijam, Sub. K. Yadav; COF-CAU-0566, 2ex126.41-128.23mmSL, Khujai River, Mongyang, Manipur, 23°519.560'N 52° 003.519'E, 08. 05. 2016, Coll. B. Hijam, Sub. K. Yadav.

3.4.3.4 *Bangana devdevi* (Hora 1936): COF-CAU-0169, 1ex??SL, Keithelmanbi, Thoubal barrage, Manipur,??, 20.03.2013, Coll. KS. Singh & Laxmi P. Chanu, Sub. KV. Radhakrishnan; COF-CAU-0560, 10ex106.1-133.27mmSL, Thoubal River, Kaithelmanbi, Manipur,???, 03. 11. 2017, Coll. B. Singh, Sub. K. Yadav.

3.4.3.5 *Barbonymus gonionotus* (Bleeker 1849): COF-CAU-0186, 6ex??SL, LaitryngewRiver, Laitryngew Walikaba, Meghalaya, 25°43'48"N 091°40'93" E, 28.06.2016, Coll. J. Singh & Party, Sub. A S. Barman.

3.4.3.6 *Barilius barila* (Hamilton 1822): COF-CAU-0151, 1ex??SL, Nkwareu River, Mhaimamtsi, Nagaland,???, 20.06.2015, Coll. Lima and Mao, Sub. KV. Radhakrishnan.

3.4.3.7 *Barilius bendelisis* (Hamilton 1822): COF-CAU-0046, 1 ex??SL, Rangit River, Jorethang, Sikkim,

27°07'685"N 88°17'113"E, 18.03.2016, Coll. T. Acharjee & Party, Sub. KV. Radhakrishnan; COF-CAU-0086, 1ex??SL, Tut River, Dapchuah, Mizoramam, 23°46'303"N 92°31'162"E, 05.09.2013, Coll. A. S. Barman, Sub. R. Dhanze.

3.4.3.8 *Barilius radiolatus* Gunther, 1868: COF-CAU-0288, 3ex40.89-46.5mm SL, Deo River, Sukhnacherra, Tripura, 24°00.776"N 092°11.834"E, 13.01.2017, Coll. B. Hijam, Sub. R. Dhanze.

3.4.3.9 *Cabdio morar* (Hamilton 1822): COE-CAU-0103, 1ex??SL, Gomati River, Amarapur, Tripura, 23°29'874"N 091°40'594"E, 19.08.2014, Coll. P. Debnath & A. Husain, Sub. P. Bhattacharjee.

3.4.3.10 *Chagunius chagunio* (Hamilton 1822): COF-CAU-0150, 1ex??SL, New Saitherkam, Chathe River, Nagaland,???,13.06.2014, Coll. T. Datta, Sub. K.V. Radhakrishnan.

3.4.3.11 *Cirrhinus mrigala* (Hamilton 1822): COF-CAU-0014, 1 ex??SL, Gomati River, Indiranagar, Tripura,???, Sub. P. Bhattacharjee; COF-CAU-0079, 2ex??SL, Kalu River, Garo-badha, Meghalaya, 25°34'377"N 90°01'298"E, 20.03.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.4.3.12 *Cirrhinus reba* (Hamilton 1822): COF-CAU-0016, 1 ex??SL, Gomati River, Pitra Loccha para, Tripura, 23°32'22"N 91°39'2"E, 19.05.2013, Coll. A. Das, Sub. P. Bhattacharjee.

3.4.3.13 *Crossocheilus burmanicus* (Hora 1936): COE-CAU-0053, 1ex??SL, Teesta River, Gazaldoba, Sikkim, 27°46'928"N 88°45'232"E, 16.07.2013, Coll. R. Kumar & A. Rai, Sub. KV. Radhakrishnan.

3.4.3.14 *Crossocheilus latius* (Hamilton 1822): COF-CAU-0160, 2ex??SL, Tatching River, Borguli, Arunachal Pradesh, 28°00'523"N 095°27'857"E, 23.03.2016, Coll. JR.Dhanze & Party, Sub. KV. Radhakrishnan.

3.4.3.15 *Cyprinion semiplotum* (McClelland 1839): COE-CAU-0056, 2ex304.16-305.35mmSL, Kameng River, Lower Bhalukpong, Arunachal Pradesh, 27°01'084"N 092°38'217"E, 07.05.2016, Coll. JR. Dhanze, & Party, Sub. JR. Dhanze; COF-CAU-0220, 5ex8.5mmSL, Teesta River, 3A village, Sikkim, 24°24'877"N 092°47'302"E, 04.06.2014, Coll. T. Acharjee & A. Rai, Sub. KV. Radhakrishnan.

3.4.3.16 *Danio meghalayensis* (Sen&Dey 1985):COF-CAU-0185,1ex??SL, Amlayee River, Nongbareh, Meghalaya, 25°13'59"N 092°01'53"E, 22.08.2016, Coll. C. Wanglar & Party, Sub. A S. Barman.

3.4.3.17 *Danio rerio* (Hamilton 1822): COF-CAU-0154, 1ex??SL, Kelemeu River, Jalukei, Nagaland,???, 19.06.2015, Coll. Lima and Mao, Sub. K.V Radhakrishnan.

3.4.3.18 *Devario aequipinnatus* (McClelland 1839): COF-CAU-0038, 4ex??SL, Rangit River, Manpur Khola, Sikkim, 27°06'780"N 88°21'661"E, 16.04.2013, Coll. R. Kumar & A. Rai, Sub. KV. Radhakrishnan; COF-CAU-0084, 2ex??SL, Kalu River, Garo-badha, Meghalaya, 25°34'377"N

90°01'298"E, 20.03.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.4.3.19 *Devario devario* (Hamilton1822): COF-CAU-0257,18ex44.95-67.02mmSL,Serum River, Serum, Arunachal Pradesh, 27°59'922"N 095°28'446"E, 21.03.2016, Coll. JR. Dhanze & Party, Sub. R. Dhanze.

3.4.3.20 *Esomus danrica* (Hamilton 1822): COF-CAU-0072, 5ex??SL, Jinjiram. Rivers, Lalmati, 3.4.3.21. Meghalaya, 25°45'512" N 89°57'160" E, 21.03.2013, Coll. AS.Barman, Sub. R. Dhanze.

3.4.3.22 *Garra annandalei* (Hora 1921): COF-CAU-0044, 1ex??SL, Rangit River, Legship, Sikkim, 27°16'840"N 88°16'484"E, 26.08.2013, Coll. R. Kumar & Party, Sub. KV. Radhakrishnan.

3.4.3.23 *Garra gotyla* (Gray 1830): COF-CAU-0039, 1ex??SL, Kalez khola, Rangit River, Sikkim, 27°15'410"N 88°17'288"E, 23.08.2013, Coll. R. Kumar & A.Rai, Sub. KV. Radhakrishnan.

3.4.3.24 *Garra gravelyi* (Annandale 1919): COF-CAU-0189, 1ex??SL, Tuipui River, Zotland, Mizoramam, 23°29'287"N 093°20'474"E, 12.07.2013, Coll. Zama & Samar, Sub. AS. Barman.

3.4.3.25 *Garra kempfi* (Hora 1921): COF-CAU-0227, 1ex14mmSL, Teesta River, Rangpoo, Sikkim, 27°10'424"N 88°81'582"E, 10.12.2014, Coll. T. Acharjee and A. Rai, Sub. KV. Radhakrishnan.

3.4.3.26 *Garra lamta* (Hamilton 1922): COE-CAU-0050, 1ex??SL Rangit River, Legship, Sikkim, 27°16'840"N 88°16'484"E, 20.03.2014, Coll. T. Acharjee & Ases Rai, Sub. KV. Radhakrishnan.

3.4.3.27 *Garra lissorhynchus* (McClelland 1842): COF-CAU-0258, 3ex59.23mmSL Yumchi River, Yumchinumtal, Arunachal Pradesh, 28°02'935"N 094°10'538"E, 25.09.2016, Coll. J. Parhi & Party, Sub. KV. Radhakrishnan.

3.4.3.28 *Garra naganensis* (Hora 1921): COF-CAU-0190, 2ex??SL, Tlawng River, Sihhmui, Mizoram, 23°48'118"N 092°37'423"E, 21.11.2013, Coll. Zama & Samar, Sub. A S. Barman.

3.4.3.29 *Garra nasuta* (McClelland 1838): COF-CAU-0043, 1ex??SL, Teesta River, Singtam, Sikkim, 27°13'818"N 88°29'550"E, 27.08.2013, Coll. R. Kumar & A. Rai, Sub. KV. Radhakrishnan.

3.4.3.30 *Garra rakhinica* (Kullander and Fang 2004): COE-CAU-0097, 4ex55.14-66.39mmSL,Mat River, Mat bridge Sarchip, Mizoramam, 23°18'917"N 92°48'537"E, 01.09.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.4.3.31 *Gibelion catla* (Hamilton 1822): COF-CAU-0029, 2ex??SL, Kemtali, Gomati River, Tripura, 23°31'493"N 091°19'478"E, 25.09.2014, Coll. A. Husain, Sub. P. Bhattacharjee.

3.4.3.32 *Hypophthalmichthys nobilis* (Richardson 1845): COF-CAU-0114, 2ex??SL, Gomati River, Rudrasagar,

Tripura, 23°29'696"N 091°19'160"E, 25.09.2014, Coll. A. Husain, Sub. P. Bhattacharjee

3.4.3.33 *Labeo angra* (Hamilton, 1822): COF-CAU-0269, 1ex??SL, Simari River, Simari, Arunachal Pradesh, 28°05'834"N 095°83'915"E, 27.03.2016, Coll. JR. Dhanze & T. Acharjee, Sub. R. Dhanze.

3.4.3.34 *Labeo bata* (Hamilton 1822): COF-CAU-0002, 1ex??SL, Feni River, Sabroom Bazarghat, Tripura, 23°54'00"N 091°43'868"E, 24.08.2013, Coll. P. Debnath, Sub. P. Bhattacharjee.

3.4.3.35 *Labeo boga* (Hamilton 1822): COF-CAU-0289, 2ex114.76mmSL, Lokchao River, Upahthori, Manipur, 24°56'09"N 092°90'320"E, 06.05.2016, Coll. B. Hijam, Sub. R. Dhanze.

3.4.3.36 *Labeo calbasu* (Hamilton 1822): COF-CAU-0001, 13ex??SL, Gomati River, Mandirghat, Tripura, 23°25'53"N 091°49'635"E, 15.09.2014, Coll. A. Husain, Sub. P. Bhattacharjee; COF-CAU-0132,??ex??SL??River, Loc??, Assam, Coll.?? Sub. KV. Radhakrishnan.

3.4.3.37 *Labeo dyocheilus* (McClelland 1839): COF-CAU-0216, 2ex??SL, Tlawng River, Eden li, Mizoramam., 23°31'39"N 092°38'13"E, 10.02.2017, Coll. AS. Barman & Party, Sub. AS. Barman.

3.4.3.38 *Labeo gonius* (Hamilton 1822): COF-CAU-0003,3ex21.65-173.50mmSL,GomatiRiver, Kentali,Tripura, 23°31'493"N 91°19'478"E, 15.01.2015, Coll. A. Husain, Sub. P. Bhattacharjee; COF-CAU-0167, 1ex217.66mmSL, Loktak lake, Loktak, Manipur,???,???, Coll. B. Hijam, Sub. KV. Radhakrishnan.

3.4.3.39 *Labeo rohita* (Hamilton 1822): COF-CAU-0004, 1ex145.30mmSL, Gomati River, Baltali, Tripura, 23°29'807"N 091°19'922"E, 22.12.2014, Coll. P. Debnath, Sub. P. Bhattacharjee; COF-CAU-0085, 2ex??SL, Kalu River, Garo-badha (West Garo Hills), Meghalaya, 25°34'377"N 90°01'298"E, 20.03.2013, Coll. AS. Barman, Sub. R. Dhanze; COE-CAU-0091, 5ex??SL, Tuichang River, Seling chaph road, Mizoramam., 23°33'545"N 93°06'170"E, 28.08.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.4.3.40 *Neolissochilus hexagonolepis* (McClelland 1839): COE-CAU-0047, 1ex??SL, Teesta River, Rorethang., Sikkim, 27°11'785"N 88°37'316"E, 11.03.2014, Coll. T. Acharjee & A. Rai, Sub. KV. Radhakrishnan; COE-CAU-0081, 2ex??SL, Kalu River, Garo-badha, Meghalaya, 25°34'377"N 90°01'298"E, 20.03.2013, Coll. AS. Barman, Sub. R. Dhanze; COE-CAU-0261, 1 ex, 169.21mm SL, Zinkho River, Jamir point, Arunachal Pradesh, 27°11'657"N 092°34'256"E, 09.05.2016, Coll. J. Parhi & Party, Sub. JR. Dhanze.

3.4.3.41 *Neolissochilus hexastichus* (McClelland1839): COE-CAU-0087, 1ex250mmSL,SerluiRiver, Reiekkai, Mizoram, 25°42'317"N 92°40'280"E, 29.08.2013, Coll. A. S. Barman, Sub. R. Dhanze.

3.4.3.42 *Neolissochilus paucisquamatus* (Smith,1945): COE-CAU-0280,1ex56.00mmSL, Rang River, Baberpit, Arunachal Pradesh, 27°20'126"N 093°45'990"E,

13.10.2016,Coll.J.Parhi&Party, Sub. R. Dhanze

3.4.3.43 *Neolissochilus spinulosus* (McClelland, 1845): COE-CAU-0276, 2ex230.36mmSL, Rilane River, Rubbals, Meghalaya, 25°23'899"N 091°25'650"E Alt 1413m, 20.08.2016, Coll. JR. Dhanze, & Party, Sub. R. Dhanze

3.4.3.44 *Neolissochilus stracheyi* (Day, 1871): COE-CAU-0163,1ex11.55mmSL, Lokchao River, Maihikhul, Manipur, 24°48'009"N 093°09'775"E, 13.12.2015, Coll. B. Hijam, Sub. KV. Radhakrishnan

3.4.3.45 *Opsarius barna* (Hamilton 1822): COF-CAU-0045, 5ex??SL, Teesta River, Topakhani, Sikkim, 27°14'760"N 88°31'547"E, 09.02.2013, Coll. R. Kumar & A. Rai, Sub. KV. Radhakrishnan.

3.4.3.46 *Opsarius tileo* (Hamilton 1822): COF-CAU-0286, 1ex156.08mmSL, Lukha River, Sonapur, Meghalaya, 25°06'093"N 092°21'213"E, 23.08.2016, Coll. C. Wanglar & Party, Sub. R. Dhanze.

3.4.3.47 *Osteobrama cotio* (Hamilton 1822): COF-CAU-0005, 7ex57.30–73.30mmSL Gumti River, Indiranagar, Tripura,???,???, 13.05.2014, Coll. A. Husain, Sub. P. Bhattacharjee.

3.4.3.48 *Osteobrama cunma* (Day): COF-CAU-0172, 6ex60.30–72.91mmSL, Gumti River, Indiranagar, Tripura,??, 13.05.2014, Coll. A. Husain, Sub. R. Dhanze; COF-CAU-0173, 2ex 49.04–51.25mmSL, Gumti River, Ghrantali, Tripura,??, 23.09.2013, Coll. S. Kachari & P. Debnath, Sub. R. Dhanze; COF-CAU-0174, 11ex 54.89–66.11mmSL, Iiril River, Saikul, Manipur,???, 15.04.13, Coll. Lakshmi Chanu, Sub. R. Dhanze.

3.4.3.49 *Pethia conchoniis* (Hamilton 1822): COF-CAU-0437,1ex43.15mmSL, Longhai River, Rahimpur, Assam, 24°42'678"N 092°36'609"E Alt 12m, 12.08.2016, Coll. P. Biswas & B. Hijam, Sub. R. Dhanze.

3.4.3.50 *Pethia gelius* (Hamilton,1822): COF-CAU-0395, 6ex29.29-35.00mmSL, Dibru River, Gorikinepali, Assam, 27°56'692"N 095°27'014" E, Alt 148m, 24.04.2017, Coll. P. Biswas & Party, Sub. R. Dhanze.

3.4.3.51 *Pethia manipurensis* (Menon, R.Devi & Vishwanath, 2000): COF-CAU-0012,1ex??SL, Gomati River, Pitra Locchapara, Tripura, 23°32'22"N 91°39'2"E, 19.05.2013, Coll. A. Das, Sub. P. Bhattacharjee.

3.4.3.52 *Pethia phutunio* (Hamilton,1822): COF-CAU-0391,3ex39.8-63.66mmSL,DibruRiver,Pipratali, Assam,27°56'309"N095°16'871EAlt 156m, 24.04.2017, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0482, 4ex32.88-34.10mmSL, Chotachaudhury,??, Assam, 06.12.2013, Coll.??, Sub. R. Dhanze.

3.4.3.53 *Pethia shalynius* (Yazdani & Talukdar 1975): COF-CAU-0281, 4ex75.70mmSL, Umring River, 5 miles Meghalaya,25°43'554"N 091°48'565"E, 30.01.2016, Coll. B. Hijam, Sub. R. Dhanze.

3.4.3.54 *Pethia ticto* (Hamilton 1822): COE-CAU-0115,

2ex??SL, ManuRiver, Chailengta, Tripura, 23°56'426"N 091°59'952E, 19.02.2014, Coll. P. Debnath & A. Husain, Sub. P. Bhattacharjee; COF-CAU-0359, 1ex30.27mmSL, Moinabari, Assam,???, 04.04.2015, Coll. A. Das & S. Kachari, Sub. R. Dhanze; COF-CAU-0365, 36ex27.29-42.52mmSL, Brahmaputra River, Analopathy, Assam, 27°45'205"N 095°04'419"E Alt 140m, 22.04.2017, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0368, 2ex 43.05-50.43mmSL, Barak River, Balighat Assam,???, 31.10.2015, Coll.??, Sub. R. Dhanze.

3.4.3.55 *Puntius chola* (Hamilton 1822): COF-CAU-0177, 3ex??SL, Ummgot River, Siyang, Meghalaya, 25°15'33"N 091°58'49" E, 23.06.2016, Coll. J.Singh & Party, Sub. AS. Barman; COF-CAU-0205, 1 ex??SL, Mat River, Mat bridge Serchip, Mizoram., 23°18'917"N 092°48'537"E, 01.09.2013, Coll. AS. Barman, Sub. AS. Barman; COF-CAU-0264, 5ex6.40mmSL, Siang River, Pantung, Arunachal Pradesh, 28°00'588"N 095°23'261"E, 20.03.2016, Coll. JR. Dhanze & Party, Sub. KV. Radhakrishnan; COF-CAU-0360, 2ex51.92-61.61mm SL, Kcherkhada River, Beleiri, Assam, 26°42'403"N, 092°32'575"E, Alt 77m, 20.10.2016, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0361, 3ex37.03-38.80mmSL, Koliabor, Assam,???, 06.08.2014, Coll.??, Sub. R. Dhanze; COF-CAU-0363, 4ex60.10mm SL, Barak River, Mathuraghat, Assam,???, 31.10.2015, Coll. P. Mondal & Party, Sub. R. Dhanze; COF-CAU-0364, 4ex54.71-62.02mm SL, Brahmaputra River, Ganeshghat, Assam, 26°36'980"N 092°46'501"E Alt 77m, 19.10.2016, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0366, 1ex46.36mmSL, Digholi beel, Digholi, Assam, 26°47'768"N 092°76'628"E, Alt 64m, 20.10.2016, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0369, 4ex34.27-43.11mmSL, Koyaku, Assam,???, 15.04.2015, Coll. A. Das & S. Kachari, Sub. R. Dhanze; COF-CAU-0370, 4ex54.71-62.02mmSL, Brahmaputra River, Moinabari, Assam,???, 04.04.2015, Coll. A Das & S.Kachari, Sub. R. Dhanze; COF-CAU-0371, 3ex??SL, Chrabbaru River, Diputa, Assam, 26°40'334"N 092°43'794"E Alt 61m, 21.10.2016, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0376, 1ex44.84mmSL, M. Kura, Assam,???, 16.09.2014, Coll.??, Sub. R. Dhanze; COF-CAU-0378, 10ex46.38-62.45mmSL, Sessa River, Tipamgari, Assam, 27°26'987"N, 095°39'954"E, Alt 14m, 25.04.2017, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0379, 3ex 36.74-38.10mm SL, Meghnapara, Assam,???, 19.09.2014, Coll.??, Sub. R. Dhanze; COF-CAU-0383, 1ex39.40mm SL, Chakorda, Assam,???, 04.11.2014, Coll.??, Sub. R. Dhanze; COF-CAU-0385, 1ex74.98mmSL, Brahmaputra River, Bhumagiri, Assam, 26°76'731"N, 092°52'054"E, Alt 81m, 19.10.2016, Coll. P. Biswas & Party, Sub. R. Dhanze.

3.4.3.56 *Puntius sophore* (Hamilton 1822): COF-CAU-0030, 82ex??SL, Gomati River, Tirthamukh Tripura, 23° 25'330"N 091°48'181"E, 07.03.2014, Coll. P. Debnath & A. Husain, Sub. P. Bhattacharjee; COE-CAU-0060, 2ex??SL, Jinjiram River, Lalmati, Meghalaya, 25°45'512"N 89°57'160" E, 21.03.2013, Coll. AS. Barman, Sub. R. Dhanze; COF-CAU-0207, 2ex??SL, Tuichang River, Seling chaph road, Mizoram., 23°33'545"N 093°06'170"E, 28.08.2013, Coll. AS. Barman, Sub. AS. Barman; COF-CAU-0362, 1ex34.93mmSL, Koyakuchi, Assam,???, 15.04.2015, Coll. A.Das & S. Kachari, Sub. R. Dhanze; COF-CAU-0372, 7ex 48.71-61.43mmSL, Bhushi kuchi, Assam,???, 08.11.2015, Coll. A.Das & S. Kachari, Sub. R. Dhanze; COF-

CAU-0373, 1ex31.20mmSL, Cacuibari, Assam,???, 17.04.2014, Coll. A. Das & S. Kachari, Sub. R. Dhanze; COF-CAU-0374, 4ex40.03-45.81mmSL, Moinabari, Assam,???, 04.04.2015, Coll. A. Das & S. Kachari, Sub. R. Dhanze; COF-CAU-0377, 4ex36.02-42.06mmSL, Dhansari, River, Khulopara Assam,???, 10.04.2014, Coll.??, Sub. R. Dhanze; COF-CAU-0380, 3ex21.20-23.36mmSL, Brahmaputra River, Forestghat, Assam, 26°36'978"N 092°45'519"E Alt 54m, 20.10.2016, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0381, 19ex32.64-41.34mmSL, Dhansiri River, Dhansirighat, Assam, 26°41'748"N 092°15'319"E, Alt 81m, 24.10.2016, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0389, 4ex 44.87-49.31mmSL, Sessa River, Tungakhat, Assam, 28°33'587"N 095°17'399"E, Alt 142m, 25.04.2017, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0392, 3ex49.11-57.36mmSL, Sessa River, Tipaigaon, Assam, 27°26'987"N, 095°39'954"E, Alt 14m, 25.04.2017, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0393, 4ex50.86-61.76mmSL, Sessa River, Mahorkatia, Assam, 27°93'441"N 095°24'01 E Alt 141m, 25.04.2017, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0394, 2ex39.85-45.02mmSL, Chotachaudhury, Assam,???, 06.12.2013, Coll.??, Sub. R. Dhanze; COF-CAU-0398, 2ex32.04-37.69mmSL, Koliabor, Assam,???, 06.08.2014, Coll.??, Sub. R. Dhanze; COF-CAU-0402, 4ex47.22-59.78mmSL, Sohandistopur, Assam,???, 15.11.2014, Coll. A. Das & S. Kachari, Sub. R. Dhanze; COF-CAU-0410, 2ex48.53-62.11mmSL, Brahmaputra River, Assam, 26°36'416"N 092°51'846"E, Alt 64m, 21.10.2016, Coll. P. Biswas & Party, Sub. R. Dhanze; COF-CAU-0416, 5ex 39.51-48.41mmSL, Anair River, Gurara, Assam, 24°46'391"N 092°51'379"E, Alt 64m, 12.08.2016, Coll. P. Biswas & B. Hijam, Sub. R. Dhanze; COF-CAU-0419, 3ex47.77-63.08mmSL, Balina River, Sutarkandi, Assam, 24°52'497"N, 092°15'240"E, Alt 12m, 07.08.2016, Coll. P. Biswas & B. Hijam, Sub. R. Dhanze; COF-CAU-0424, 1ex47.42mmSL, Kachua River, Seemanta, Assam, 24°47'393"N 092°27'253"E, Alt 14m, 10.08.2016, Coll. P. Biswas & B. Hijam, Sub. R. Dhanze; COF-CAU-0427, 8ex 43.72-62.80mmSL, Longhai River, Shibbari, Assam, 24°28'372"N 092°72'312"E, Alt 14m, 12.08.2016, Coll. P. Biswas & B. Hijam, Sub. R. Dhanze; COF-CAU-0432, 2ex56.54-56.55mmSL, Balina River, Alampur, Assam, 24°49'295"N, 092°18'365" E, Alt 10m, 07.08.2016, Coll. P. Biswas & B. Hijam, Sub. R. Dhanze; COF-CAU-0435, 2ex42.08-48.94mmSL, Longhai River, Rahimpur, Assam, 24°42'678"N, 092°36'609"E, Alt 12m, 12.08.2016, Coll. P. Biswas & B. Hijam, Sub. R. Dhanze; COF-CAU-0438, 7ex 38.95-59.31mmSL, Sonbil River, Kathathala, Assam, 24°67'839"N 092°16'180"E, Alt 13m, 09.08.2016, Coll. P. Biswas & B. Hijam, Sub. R. Dhanze; COF-CAU-0441, 1ex47.29mmSL, Longhai River, Hazara, Assam, 24°31'368"N 092°16'118"E Alt 12m, 06.08.2016, Coll. P. Biswas & B. Hijam, Sub. R. Dhanze; COF-CAU-0443, 3ex43.20-49.55mmSL, Gunty River, Jankisghat, Assam, 24°47'966"N 092°28'094"E, Alt 13m, 11.08.2016, Coll. P. Biswas & B. Hijam, Sub. R. Dhanze; COF-CAU-0448, 20ex34.5-54.64mmSL, Devpur, Assam, 24°32'733"N 092°21'205"E, Alt 10m, 09.08.2016, Coll. P. Biswas & B. Hijam, Sub. R. Dhanze; COF-CAU-0452, 1ex68.61mmSL, Katakhal River, Narayanpur, Assam, 24°41'506"N 092°32'703"E, Alt 8m, 10.08.2016, Coll. P. Biswas & B. Hijam, Sub. R. Dhanze; COF-CAU-0456, 4ex49.77-72.73mmSL, Satemari, Assam,???, 02.11.2014, Coll. A. Das

& S. Kachari, Sub. R. Dhanze.

3.4.3.57 *Puntius terio* (Hamilton 1822): COF-CAU-0384, 2ex17.24-34.24mmSL, Koyakuchi Assam,???,15.04.2015, Coll. A.Das & S. Kachari, Sub. R. Dhanze; COF-CAU-0405, 3ex25.02-30.30mmSL, Moinabari Assam,???, 04.04.2015, Coll. A. Das & S.Kachari, Sub. R. Dhanze.

3.4.3.58 *Raiamas bola* (Hamilton 1822): COF-CAU-0277, 1ex253.1mmSL, Sehs River, Holon pokori, Assam, 27°27'218"N 094°72'943"E Alt 147m, 25.04.2017, Coll. P. Biswas & Party, Sub. R. Dhanze.

3.4.3.59 *Rasbora daniconius* (Hamilton 1822): COF-CAU-0206, 1ex??SL, Tuirial River, Tuirial Kolasib, Mizoramam., 24°20'563"N 092°52'508"E, 28.08.2013, Coll. AS. Barman, Sub. AS. Barman.

3.4.3.60 *Salmostoma bacaila* (Hamilton 1822): COF-CAU-0021,1ex??SL, Khowai River, R. chandraghat Khowai, Tripura, 24°00'744"N 091°37'044" E, 15.05.2013, Coll. P. Debnath, Sub. P. Bhattacharjee.

3.4.3.61 *Salmostoma clupeoides* (Bloch 1795): COF-CAU-0111, 11ex??SL, Gomati River, Beripara, Tripura, 23°29'618"N 091°17'340"E, 12.03.2014, Coll. A. Husain, Sub. P. Bhattacharjee.

3.4.3.62 *Schizothorachthys labiatus* (McClelland 1842): COF-CAU-0147, 1ex120.47mmSL, Dhansari River, Uria village, Nagaland,??, 31.10.2014, Coll. T. Datta, Sub. K.V Radhakrishnan.

3.4.3.63 *Schizothorax progastus* (McClelland 1839): COF-CAU-0042, 1ex??SL, TeestaRiver, Rangpoo Sikkim 27°10'424"N 88°31'582"E,15.04.2013, Coll. R. Kumar & A.Rai, Sub. KV. Radhakrishnan.

3.4.3.64 *Schizothorax richardsonii* (Gray 1832): COF-CAU-0048, 7ex78.98-159.91mmSL, Teesta River, Rishikhola, Sikkim, 27°09'981"N 88°38'158" E, 10.03.2014, Coll. T. Acharjee & A. Rai, Sub. KV. Radhakrishnan.

3.4.3.65 *Systemus clavatus* (McClelland 1845):COE-CAU-0159,1ex143.91mmSL,PurbakRiver, Parbuk, Arunachal Pradesh, 27°59'613"N 095°45'058" E,28.03.2016, Coll. JR.Dhanze & Party, Sub. JR. Dhanze;

3.4.3.66 *Systemus jayarami* (Vishwanath & Tombi 1986): COE-CAU-0283, 1ex95.00 mmSL, Lokchao River, Manipur 24°32'2778"N 94°23'2069"E, 09.05.2016, Coll. B. Hijam, Sub. R. Dhanze.

3.4.3.67 *Systemus orphoides* (Valenciennes 1842): COF-CAU-0282,1ex,90.20mmSL,??, Manipur, 23°85'8699" N 94°13'0949"E, 08.09.2016, Coll. B. Hijam, Sub. R. Dhanze.

3.4.3.68 *Systemus sarana* (Hamilton 1822): COF-CAU-0010, 2ex??SL, Gomati River, Kemtali, Tripura 23°31' 493" N 091°19'478"E, 25.09.2014, Coll. A. Husain, Sub. P. Bhattacharjee; COF-CAU-0143, 1ex 148.92mmSL, Lokchao River, Nunglitpi, Manipur,???,07.05.2016, Coll. B. Hijam, Sub. JR. Dhanze.

3.4.3.69 *Tor mosal* (Hamilton 1822): COF-CAU-0274, 1ex88mmSL, Tuirial River, Tuirial, Mizoram.,???, 11.03.2014, Coll. Samar & Zama, Sub. R. Dhanze.

3.4.3.70 *Tor progeneius* (McClelland1839): COF-CAU-0161,2ex134.04-143.22mmSL,Siju River, Kakki, Arunachal Pradesh, 27°58'516"N 095°58'319"E, 20.03.2016, Coll. JR.Dhanze & Party, Sub. R. Dhanze. 3.4.3.71. *Tor putitora* (Hamilton 1822): COF-CAU-0164, 1ex??SL,Loktak lake, Loktak, Manipur,???, 08.05.2016, Coll. B. Hijam, Sub. KV. Radhakrishnan.

3.4.4 Family- Nemachelidae

3.4.4.1 *Acanthocobitis botia* (Hamilton 1822): COF-CAU-0034,??ex??SL, Manu River, Chailengta, Tripura, 23°47'432"N 92°45'250"E, 19.02.2014, Coll. P. Debnath & A. Husain, Sub. P. Bhattacharjee.

3.4.4.2 *Acanthocobitis zonalterans* (Blyth 1860): COF-CAU-0524, 1ex??SL, Feni River, Sabroom, Tripura, 23°00'094"N 91°43'901"E, 28.03.2017, Coll. A. Debbarma & A. Kumar, Sub. P. Bhattacharjee.

3.4.4.3 *Nemacheilus peguensis* (Hora 1929): COF-CAU-0122, 91ex??SL, Dhalai River, Balarpara, Tripura, 23°57'852"N 91°50'579"E, 18.02.2014, Coll. P. Debnath & A. Husain, Sub. P. Bhattacharjee.

3.4.4.4 *Schistura devdevi* (Hora 1935): COF-CAU-0041,??SL,Teesta River, Rimbi, Sikkim, 27°18'889" N 88°11'349" E, 02.02.2013, Coll. R. Kumar & A. Rai, Sub. KV. Radhakrishnan.

3.4.4.5 *Schistura fasciata* (Lokeshwar & Vishwanath 2011): COF-CAU-0096, 3ex??SL, Tuivawl River, Arbai, Mizoram., 23°47'432"N 92°45'250"E, 30.08.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.4.4.6 *Schistura koladynensis*(Lokeshwar&Vishwanath 2012): COF-CAU-0195, 5ex??SL,Tiau River, Zokhawthar, Mizoram., 23°22'035"N 93°23'162"E, 01.09.2013, Coll. AS. Barman, Sub. AS. Barman.

3.4.4.7 *Schistura maculosa* (Lalronunga, Lalnuntluanga & LalR. lianna2013):COF-CAU-0136,??ex?? SL, Chakpi River, Laarfuw Manipur, 23°56'426"N 91°59'952"E, 30.04.2016, Coll. KS. Singh. & B. Hijam.

3.4.4.8 *Schistura multifasciata* (Day1878): COF-CAU-0226, 6ex??SL, Teesta River, Dalachand, Sikkim, 27°12'345"N 88°40'911"E, 18.06.2016, Coll. KV. Radhakrishnan & Party, Sub. KV. Radhakrishnan.

3.4.4.9 *Schistura paucireticulata* (Lokeshwar, Vishwanath & Kosygin 2013): COF-CAU-0215, 2ex??SL, Tlawng River, Lengte kai, Mizoram., 23°48'04"N 92°37'34"E, 11.02.2017, Coll. AS.Barman & Party, Sub. AS. Barman.

3.4.5 Family-Psilorhynchidae

3.4.5.1 *Psilorhynchus nudithoracicus* (Tilak & Husain 1980): COF-CAU-0192, 1 ex??SL, Tlawng River, Sihmui Mizoram. 23°48'118" N 92°37'423" E, 05.09.2013, Coll. AS. Barman, Sub. AS. Barman.

3.5 Order-Siluriformes

3.5.1 Family- Akysidae

3.5.1.1 *Akysis manipurensis* (Arunkumar 2010): COF-CAU-0144, 1ex??SL, Khujai River, Kamdumpam, Manipur,??, 08.05.2016, Coll. KS. Singh & B. Hijam, Sub. KS. Singh.

3.5.2 Family- Amblycipitidae

3.5.2.1 *Amblyceps apangi* (Nath & Dey 1989): COF-CAU-0244, 1ex144.37mmSL, YamneaRiver, Gusing, Arunachal Pradesh, 28°15'365"N 95°12'963" E, 24.03.2016, Coll. J. Parhi & Party., Sub. R. Dhanze

3.5.3 Family – Bagridae

3.5.3.1 *Batasio convexirostrum* (Darsan, Anganthoibi & Vishwanath 2011): COF-CAU-0193, 1ex??SL, Mat River, Matbridge, Mizoram, 23°18'917"N 092°48'537"E, 01.09.2013, Coll. AS. Barman, Sub. AS. Barman.

3.5.3.2 *Mystus bleekeri* (Day 1877): COF-CAU-0008, 2ex??SL, Manu River, Manughat, Tripura, 23°59'75"N 091°59'382"E, 18.02.2014, Coll. A. Husain & P. Debnath, Sub. P. Bhattacharjee; COF-CAU-0059, 3ex??SL, Jinjiramam River, Lalmati, Meghalaya, 25°45'512"N 089°57'160"E, 21.03.2013, Coll. AS. Barman, Sub. R. Dhanze; COF-CAU-0102, 3ex??SL, Serlui River, Reiek kai tlawng, Mizoram, 23°42'317"N 092°40'280"E, 29.08.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.5.3.3 *Mystus seenghala* (Sykes 1839): COF-CAU-0007, 1ex??SL, Gomati River, Maharani, Tripura, 23°31'689"N 091°33'541"E, 22.03.2014, Coll. A. Husain & P. Debnath, Sub. P. Bhattacharjee.

3.5.3.4 *Mystus tengara* (Hamilton 1822): COF-CAU-0006, 1ex??SL, Gomati River, Baltali, Tripura, 23°59'807" N 091°19'922" E, 23.09.2013, Coll. S. Kachari & P. Debnath, Sub. P. Bhattacharjee.

3.5.3.5 *Mystus vittatus* (Bloch 1794): COF-CAU-0061, 1ex??SL, JinjiramRiver, Lalmati, Meghalaya, 25°45'512"N 089°57'160"E, 21.03.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.5.3.6 *Rita rita* (Hamilton 1822): COF-CAU-0022, 1ex??SL, Gomati River, Maharani barrage, Tripura, 23°31'689"N 091°33'54"E, 22.03.2014, Coll. A. Husain & P. Debnath, Sub. P. Bhattacharjee.

3.5.3.7 *Sperata aor* (Hamilton 1822): COF-CAU-0134, 3ex??SL, Barak River, Balighat, Assam, 24°52'041"N 092°45'021"E, 31.10.2015, Coll. P. Bhattacharjee & Party, Sub. KV. Radhakrishnan.

3.5.3.8 *Sperata seenghala* (Sykes 1839): COF-CAU-0057, 1ex??SL, Kalu River, Garobadha, Meghalaya, 25°34'377"N 090°01'298"E, 20.03.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.5.4 Family-Clariidae

3.5.4.1 *Clarias magur* (Linnaeus 1758): COF-CAU-0117, 1ex??SL, Gomati River, Mandirghat, Tripura, 23°30'273"N 91°19'265"E, 23.09.2013, Coll. P. Debnath, Sub. P.

Bhattacharjee.

3.5.5 Family-Heteropneustidae

3.5.5.1 *Heteropneustes fossilis* (Bloch 1794): COF-CAU-0082, 2ex??SL, Kalu River, Garobadha, Meghalaya, 25°34'377"N 90°01'298"E, 20.03.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.5.6 Family-Olyridae

3.5.6.1 *Olyra longicaudata* (McClelland 1842): COF-CAU-0259, 1ex70.71mm SL, Serum River, Serum, Arunachal Pradesh, 27°59'922"N 095°28'446" E, 21.03.2016, Coll. JR. Dhanze & Party, Sub. KV. Radhakrishnan.

3.5.7 Family – Schilbeidae

3.5.7.1 *Ailia coila* (Hamilton 1822): COF-CAU-0017, 15exSL, Manu River, Manughat, Tripura, 23°59'751"N 91°59'388"E, 20.10.2014, Coll. P. Debnath & A. Husain, Sub. P. Bhattacharjee.

3.5.7.2 *Clupisoma garua* (Hamilton 1822): COF-CAU-0018, 1ex??SL, Sabroom River, Bazarghat, Tripura,???, 25.08.2013, Coll. P. Debnath, Sub. P. Bhattacharjee.

3.5.7.3 *Eutropiichthys vacha* (Hamilton 1822): COF-CAU-0171, 1ex??SL, Gomati River, Melaghar, Tripura, Coll. A. Das, Sub. KV. Radhakrishnan; COF-CAU-0519, 1ex??SL, Dibru River, Pipratoli, Assam, 27°56'379"N 95°16'581"E, 24.04.2017, Coll. P. Biswas & Party, Sub. R. Dhanze.

3.5.8. Family- Siluridae

3.5.8.1 *Ompok bimaculatus* (Bloch 1794): COF-CAU-0025, 1ex??SL, Gomati River, Rangamatia, Tripura, 23°29'123"N 091°17'750"E, 12.03.2014, Coll. A. Husain, Sub. P. Bhattacharjee; COF-CAU-0130, 1ex??SL, Sonbil River, Bhasantilla, Assam, 24°40'216"N 092°25'287"E, 09.08.2016, Coll. P. Biswas & Party, Sub. R. Dhanze.

3.5.8.2 *Ompok pabda* (Hamilton 1822): COF-CAU-0026, 7ex??SL, Gomati River, Rudrasagar, Tripura, 23°29'696"N 091°19'160"E, 25.09.2014, Coll. A. Husain, Sub. P. Bhattacharjee.

3.5.8.3 *Ompok pabo* (Hamilton 1822): COF-CAU-0105, 2ex??SL, Kemtali, GomatiRiver, Tripura, 23°31'493"N 091°19'478"E, 22.12.2013, Coll. P. Bhattacharjee, Sub. P. Bhattacharjee.

3.5.8.4 *Wallago attu* (Bloch & Schneider 1801): COF-CAU-0009, 1ex??SL, Gomati River, Grantali, Tripura, 23°29'586"N 091°19'081"E, 16.01.2015, Coll. A. Hussain & P. Debnath, Sub. P. Bhattacharjee.

3.5.9 Family – Sisoridae

3.5.9.1 *Bagarius bagarius* (Hamilton 1822): COF-CAU-0019, 1ex??SL, Gomati River, Bardwal, Tripura, 23°29'730"N 091°17'800"E, 01.11.2014, Coll. A. Husain & P. Debnath, Sub. P. Bhattacharjee;

3.5.9.2 *Exostoma labiatum* (McClelland 1842): COF-CAU-0242, 1ex57.94mmSL, Semani River, Semani, Arunachal Pradesh, 28°05'834"N 095°83'315" E, 27.03.2016, Coll. JR. Dhanze & Party, Sub. R. Dhanze.

3.5.9.3 *Gagata cenia* (Hamilton 1822): COF-CAU-0121, 2ex??SL, Gomati River, Madhuban, Tripura, 23°50'254"N 091°16'723"E, 12.03.2014, Coll. A. Husain, Sub. P. Bhattacharjee.

3.5.9.4 *Gagata gagata* (Hamilton 1822): COF-CAU-0027, 2ex??SL, Ramchandraghat, Tripura, 24°00'749"N 091°37'044"E, 28.12.2013, Coll. P. Debnath, Sub. P. Bhattacharjee.

3.5.9.5 *Glyptothorax gracilis* (Gunther 1864): COF-CAU-0049,??ex??SL, Rangit River, Legship, Sikkim, 27°16'840"N 088°16'484"E, 20.03.2014,Coll.T.Acharjee & A. Rai, Sub. KV. Radhakrishnan.

3.5.9.6 *Glyptothorax maceriatius* (Ng & Lalramliana 2012): COF-CAU-0217,2ex??SL, Tlawng River, Eden li, Mizoram,23°31'39"N 092°38'13"E,11.02.2017,Coll.AS.Barman & Party, Sub. AS. Barman.

3.5.9.7 *Glyptothorax ngapang* (Vishwanath & Linthoingambi 2007): COF-CAU-0145,??ex??SL, Lokchao River, Satkai,Manipur,???,07.05.2016, Coll.KS.Singh &B.Hijam,Sub.JR.Dhanze.

3.5.9.8 *Glyptothorax striatus* (McClelland 1842): COF-CAU-0214, 1ex??SL, Tlawng River, Sihhmui, Mizoram, 23°48'118"N 092°37'423"E,05.09.2013,Coll.AS.Barman, Sub. AS. Barman.

3.5.9.9 *Glyptothorax telehitta* (Hamilton 1822): COF-CAU-0153,??ex??SL, Dhansari River, Burma camp, Nagaland,???,12.06.2014,Coll.H.Saha & T. Datta, Sub. R. Dhanze.

3.5.9.10 *Glyptothorax trilineatus* (Blyth 1860): COF-CAU-0020, 1ex??SL, Gomati River, Bardwal, Tripura, 23°29'730"N 091°17'800"E,15.05.2013, Coll. A. Das, Sub. P. Bhattacharjee.

3.5.9.11 *Glyptothorax ventrolineatus* (Vishwanath & Linthoingambi, 2006): COF-CAU-0135,??ex??SL, Chakpi River, Laarfuw, Manipur, 30.04.2016, Coll. KS. Singh & B. Hijam, Sub. KS. Singh.

3.5.9.12 *Pseudecheneis sulcata* (McClelland 1842): COF-CAU-0040,??ex??SL, Rangit River, Jorethang, Sikkim, 27°07'685"N 088°17'113"E,31.01.2013,Coll.R.Kumar & A. Rai, Sub. KV. Radhakrishnan.

3.5.9.13 *Pseudolaguvia shawi* (Hora 1921): COF-CAU-0052, 1ex??SL, Rangit River, Jorethang, Sikkim, 27°07'685"N 088°17'113"E,31.01.2013, Coll. R. Kumar & A. Rai, Sub. KV. Radhakrishnan;

3.5.9.14 *Pseudolaguvia virgulata* (Hora 1921): COF-CAU-0196, 1ex??SL, Tut River, Dapchhuah, Mizoram, 23°46'303"N 92°31'162"E,15.09.2013,Coll.AS.Barman,Sub.AS.Barman.

3.6 Order – Salmoniformes

3.6.1 Family –Salmonidae

3.6.1.1. *Salmo trutta fario* (Linnaeus 1758): COF-CAU-

0051,1ex??SL, Teesta River, Rolep, Sikkim, 27°16'303"N 88°42'833"E,18.03.2014,Coll.T.Acharjee & A. Rai, Sub. KV. Radhakrishnan.

3.7 Order –Beloniformes

3.7.1 Family – Belonidae

3.7.1.1 *Xenentodon cancila* (Hamilton, 1822): COF-CAU-0291,1ex,155.59mmSL, Kachua River, Naigram, Assam,24°05.524"N092°25.291"E Alt.15m,10.8.16,Coll.P.Biswas & Party, Sub. JR. Dhanze; COF-CAU-0292,2ex99.87–158.21mmSL, Brahmaputra River, Koliabhorma, Assam, 26°37.420"N 092°26.614"E, Alt. 56m,21.10.16,Coll.P.Biswas& Party,Sub.JR.Dhanze;COF-CAU-0293, 1ex 218.14 mmSL, Sanai River, Noigao,Assam,24°80.936"N092°26.057"E,8.8.16,Coll.P.Biswas & Party, Sub. JR. Dhanze; COF-CAU-0294,1ex,150.38mmSL,Feni River,Sampara,Tripura,22°59.017"N 091°39.058"E Alt.18m,28.3.17,Coll.A. Debbarma & Party,Sub.JR.Dhanze;COF-CAU-0295, 1ex,164.59 mmSL, Ghachumiabal River, Peoplebari, Meghalaya,03.10.13, Coll. Bidya Devi,Sub.JR.Dhanze;COF-CAU-0297, 1ex,152.45mmSL,Sunai River, Ranigram, Assam, 24°16.246"N092°31.100"E Alt. 13m,08.8.16, Coll. P. Biswas & Party, Sub. JR. Dhanze; COF-CAU-0296,1ex,143.18mmSL, Deo River, East suknacherra, Tripura, 24°00.776"N 092°11.834"E, 13.1.17,Coll.B.Hijam & Party,Sub.JR.Dhanze;COF-CAU-0298, 2ex,75.61–107.01mmSL,GomatiRiver, Battali, Tripura,???,22.03.15,Coll.A.Hossain,Sub.JR.Dhanze;COF-CAU-0299,1ex,165.46mmSL,SiangRiver,Sikatode, Arunachal Pradesh, 22.11.13, Coll. R. Kumar, Sub. JR. Dhanze; COF-CAU-0300,7ex101.84–159.04mmSL, Gomati River, Debbori, Tripura,???,10.03.15, Coll. P. Debnath & Party, Sub. JR. Dhanze.

3.8 Order-Synbranchiformes

3.8.1 Family –Chaudhuriidae

3.8.1.1 *Pillaia indica* (Yazdani 1972): COF-CAU-0062, 7ex??SL, Kalu River, Garobadha, Meghalaya, 25°34'377"N 90°01'298"E,20.03.2013,Coll.AS.Barman,Sub.AS.Barman.

3.8.2 Family – Mastacembelidae

3.8.2.1 *Macrogathus aculeatus* (Bloch, 1786): COF-CAU-0602,2ex,102.19–106.69mmSL, Balut River, Bhagma, Meghalaya,25°14.212"N91°22.205"E,02.07.16,Coll.J.Singh & Party,Sub.JR.Dhanze;COF-CAU-0603,1ex109.40mmSL, Feni River, Sabroom, Tripura, 23°00.094"N 91°43.901"E Alt-17m,28.03.17, Coll. Akhtar & Party, Sub. JR. Dhanze; COF-CAU-0604,1ex74.78mmSL, Longai River, Harara, Assam 24°31.365"N 92°16.018"EAlt-12m,06.08.16,Coll. P.Biswas& Party, Sub. R. Dhanze; COF-CAU-0606, 1ex 95.56 mmSL, Feni River, East sampara, Tripura, 22°59.002"N91°39.007"EAlt.17m,28.03.17, Coll. Amit & Party, Sub.R.Dhanze;COF-CAU-0607,1ex,91.71mmSL, Feni River, East sampara, Tripura, 22°59.002"N 91° 39. 007"E Alt.13m,28.03.17,Coll.Amit & Party,Sub.JR.Dhanze;COF-CAU-0608, 2ex,88.51–108.02mm SL, Juri River,Jolabasha,Tripura,24°15.529"N92°10.703"E,12.01.17,C oll.Hijam& Party,Sub.R.Dhanze;COF-CAU-0609,1ex,80.35mmSL, Juri River,Chantila,Tripura,24°17.033"N92°09.381"E,12.01.17,Co ll.Hijam & Party, Sub. JR. Dhanze;COF-CAU-0610,1ex,106.89mmSL, Khowai River, Ramchandraghat,

Tripura, 24°00.744"N 91°37.044"E, 28.12.13, Coll. P. Biswas & Party, Sub. JR. Dhanze.

3.8.2.2 *Macrogathus aral* (Bloch & Schneider 1801):

COF-CAU-0063, 1ex, 156.66mm SL, Jinjiram River, Lalmati, Meghalaya, 25°45'51.2"N 089°57'16.0"E, 21.03.2013, Coll. AS. Barman, Sub. R. Dhanze; COF-CAU-0668, 1ex, 33.78mm SL, Nkwareu River, Nagaland, ???, 20.06.15, Coll. ??, Sub. R. Dhanze; COF-CAU-0669, 1ex, 110.35mm SL, Umngot River, Dawki, Meghalaya, 25°11.425"N 092°01.104"E, 24.06.16, Coll. J. Singh & Party, Sub. R. Dhanze; COF-CAU-0670, 1ex, 141.92mm SL, Rangkhoh River, Sangangre, Meghalaya, ???, 13.09.13, Coll. Bidya Devi, Sub. R. Dhanze.

3.8.2.3 *Macrogathus pancalus* (Hamilton 1822):

COF-CAU-0058, 1ex, 107.51mm SL, Jinjiram River, Lalmati, Meghalaya, 25°45'51.2"N 089°57'16.0"E, 21.03.2013, Coll. AS. Barman, Sub. R. Dhanze; COF-CAU-0125, 1ex 114.39mm SL, Longhai River, Rahimpur, Assam, 24°42'67.8"N 092°36'60.9"E, 12.08.2016, Coll. P. Biswas & Party, Sub. KV. Radhakrishnan; COF-CAU-0332, 1ex, 174.89mm SL, Gomati River, Indiranagar, Tripura, 26°51.935"N 088°37.408"E Alt. 169m, 09.03.16, Coll. Tanmoy & Party, Sub. JR. Dhanze; COF-CAU-333, 1ex 104.60mm SL, Gomati River, Indiranagar, Tripura, 27°18.096"N 088°53.272"E Alt. 208m, 07.03.17, Coll. SK. Yadav, Sub. JR. Dhanze; COF-CAU-334, 1ex, 135.96mm SL, Teesta River, Mamashaghat, Sikkim, ???, 23.4.15, Coll. Tanmoy & Party, Sub. JR. Dhanze; COF-CAU-335, 1ex, 143.53mm SL, Teesta River, Jubli park, Sikkim, ???, 07.03.17, Coll. SK. Yadav, Sub. JR. Dhanze; COF-CAU-336, 2ex 98.04–100.85mm SL, Teesta River, Kodabari, Sikkim, ???, 26.10.13, Coll. A. Rai & Suman, Sub. JR. Dhanze.

3.8.2.4 *Mastacembelus armatus* (Lacepede 1800):

COF-CAU-0088, 3ex ?? SL, Mat River, Mat bridge, Mizoram, 23°18.917"N 092°48.537"E, 01.09.2013, Coll. AS. Barman, Sub. R. Dhanze; COF-CAU-0107, 1ex ?? SL, Gomati River, Bhubaneshwari patli, Tripura, 23°29'58.6"N 091°19'08.1"E, 20.05.2013, Coll. A. Das, Sub. P. Bhattacharjee; COF-CAU-0146, 1ex ?? SL, Chindwin River, Chiiphur, Manipur, ???, 01.05.2016, Coll. K. Singh & B. Hijam, Sub. JR. Dhanze; COF-CAU-0162, 1ex ?? SL, Loktak River, Loktak, Manipur, ???, Coll. B. Hijam, Sub. KV. Radhakrishnan; COF-CAU-0183, 1ex ?? SL, Kalu River, Garobandha, Meghalaya, 25°34'37.7"N 090°01'29.8"E, 20.03.2013, Coll. AS. Barman, Sub. AS. Barman.

3.8.2.5 *Mastacembelus oatesii* (Boulenger 1893):

COF-CAU-0265, 5ex 153-160mm SL, Sihhimui River, Tlawng, Mizoram, ??, 1.11.2013, Coll. Samar & Zama, Sub. R. Dhanze; COF-CAU-0266, 4ex 178-244 mm SL, Lanye River, Nagaland, 25°36.745"N 094°30.125"E, Alt. 674m, 13.05.2014, Coll. H. Saha & Party, Sub. R. Dhanze; COF-CAU-0267, 1ex 223mm SL, Tuphaleri River, Losataphe, Nagaland, 25°35.423"N 094°23.1"E, Alt. 843 m, 08.04.2017, Coll. H. Saha & Party, Sub. R. Dhanze; COF-CAU-0268, 1ex 207mm SL, Tuphaleri River, Tacholerul, Nagaland, 25°30.287"N 094°25.571"E, Alt. 927m, 06.04.2017, Coll. H. Saha & Party, Sub. R. Dhanze

3.8.3 Family –Synbranchidae

3.8.3.1 *Monopterusuchia* (Hamilton 1822):

0013, 2ex ?? SL, Gomati River, Kemtali, Tripura, 23°31'49.3"N 91°19'47.8"E, 13.03.2014, Coll. A. Husain, Sub. P. Bhattacharjee.

3.8.3.2 *Ophisteron bengalense* (McClelland 1844):

COF-CAU-0284, 1ex 528.32mm SL, Zukru River, Lazumphen, Nagaland, 26°07'12.3"N 94°14'6.15"E, 05.12.2016, Coll. H. Saha & Party, Sub. R. Dhanze.

3.9 Order – Perciformes

3.9.1 Family –Ambassidae

3.9.1.1 *Chanda nama* (Hamilton 1822):

COF-CAU-0108, 239ex ?? SL, Gomati River, Dumbur, Tripura, 23°28'31.2"N 91°51'06.8"E, 23.09.2013, Coll. P. Debnath & A. Husain, Sub. P. Bhattacharjee.

3.9.1.2 *Parambassis lala* (Hamilton 1822):

COF-CAU-0106, 1ex ?? SL, Gomati River, Harijala wetland, Tripura, 23°50'8.19"N 91°20'6.86"E, 25.05.2015, Coll. P. Debnath & A. Chakraborty, Sub. P. Bhattacharjee.

3.9.1.3 *Parambassis ranga* (Hamilton 1822):

COF-CAU-0070, 2ex ?? SL, Brahmaputra River, Lalmati, Meghalaya, 25°45'51.2"N 89°57'16.0"E, 21.03.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.9.1.4 *Parambassis vollmeri* (Roberts 1995):

COF-CAU-0199, 2ex ?? SL, Mat River, Serchhip, Mizoram, 23°18'9.17"N 92°48'53.7"E, 23.03.2013, Coll. AA. Singh, Sub. AS. Barman.

3.9.2 Family –Anabantidae

3.9.2.1 *Anabas testudineus* (Bloch 1792):

COF-CAU-0116, 2ex ?? SL, Feni River, Sabroom bazaar, Tripura, 23°30'27.3"N 91°19'26.5"E, 28.08.2013, Coll. P. Debnath, Sub. P. Bhattacharjee

3.9.3 Family – Badidae

3.9.3.1 *Badis assamensis* (Ahl 1937):

COF-CAU-0152, ??ex, ?? SL, Kelemeu River, Jalukei, Nagaland, ???, 20.06.2015, Coll. Lima & Mao, Sub. KV. Radhakrishnan.

3.9.3.2 *Badis badis* (Hamilton 1822):

COF-CAU-0073, 3ex ?? SL, Kalu River, Garobadha, Meghalaya, 25°34'37.7"N 90°01'29.8"E, 20.03.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.9.3.3 *Badis ferrarisi* (Khullander & Britz 2002):

COF-CAU-0142, ??ex ?? SL, Khujai River, Mongyang, Manipur, 08.05.2016, Coll. KS. Singh & B. Hijam, Sub. KS. Singh

3.9.3.4 *Badis tuivaiei* (Vishwanath & Shanta 2004):

COF-CAU-0078, 1ex ?? SL, Kalu River, Garobadha, Meghalaya, 25°34'37.7"N 90°01'29.8"E, 20.03.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.9.4 Family – Channidae

3.9.4.1 *Channa gachua* (Hamilton 1822):

COF-CAU-0246, 2ex, 112.31mm SL, Ranganadi River, Daborprit, Arunachal Pradesh, 27°20'12.6"N 93°45'9.48"E Alt. 620m, 03.10.2016, Coll. J. Parhi & Party, Sub. KV. Radhakrishnan.

3.9.4.2 *Channa marulius* (Hamilton 1822):

COF-CAU-0036, 1ex ?? SL, Gomati River, Chandanmura, Tripura, 23°30'19.6"N 91°18'19.1"E, 02.11.2014, Coll. A. Husain & P. Debnath, Sub. P. Bhattacharjee.

3.9.4.3 *Channa orientalis* (Bloch & Schneider 1801): COF-CAU-0028, 1ex??SL, Gomati River, Madhuban, Tripura, 23°50'554"N091°16'723"E, 12.03.2014, Coll. A. Husain, Sub. P. Bhattacharjee.

3.9.4.4 *Channa ornatipinnis* (Britz 2008): COF-CAU-0201, 1ex??SL, Tuipui River, Zotland, Champhai, Mizoram, 23°29'287"N093°20'474"E, 12.07.2013, Coll. AS. Barman, Sub. AS. Barman.

3.9.4.5 *Channa punctata* (Bloch 1793): COF-CAU-0015, 12ex??SL, Gomati River, Dumbur reservoir, Tripura, 16.09.2014, Coll. A. Husain & P. Debnath, Sub. P. Bhattacharjee; COF-CAU-0075, 4ex??SL, Brahmaputra River, Jinjiram, Meghalaya, 25°45'512"N089°57'160"E, 21.03.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.9.4.6 *Channa stewartii* (Playfair 1867): COF-CAU-0203, 3ex??SL, Serlui River, Thingdawl, Mizoram, 23°40'573"N092°41'058"E, 24.04.2013, Coll. AA. Singh, Sub. AS. Barman.

3.9.4.7 *Channa striata* (Bloch 1793): COF-CAU-0077, 3ex??SL, Jinjiram, Brahmaputra River, Meghalaya, 25°45'512"N 089°57'160"E, 21.03.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.9.5 Family –Cichlidae

3.9.5.1 *Oreochromis mossambica* (Peters 1852): COF-CAU-0113, 1ex??SL, Gomati River, Kemtali, Tripura, 23°31'493"N91°19'478"E, 28.09.2014, Coll. A. Husain, Sub. P. Bhattacharjee.

3.9.6 Family –Gobiidae

3.9.6.1 *Glossogobius giuris* (Hamilton 1822): COF-CAU-0011, 3ex??SL, Gomati River, Beripara, Tripura, 23°29'123"N091°17'50"E, 25.09.2014, Coll. A. Husain, Sub. P. Bhattacharjee.

3.9.7 Family –Nandidae

3.9.7.1 *Nandus nandus* (Hamilton 1822): COF-CAU-0033, 1ex??SL, Gomati River, Bhulamura, Tripura, 12.05.2014, Coll. A. Husain, Sub. P. Bhattacharjee.

3.9.8 Family –Osphronemidae

3.9.8.1 *Trichogaster chuna* (Hamilton 1822): COF-CAU-0069, 2ex??SL, Jinjiram River, Lalmati, Meghalaya, 25°45'512"N89°57'160"E, 21.03.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.9.8.2 *Trichogaster fasciata* (Bloch & Schneider 1801): COF-CAU-0068, 3ex??SL, Jinjiram River, Lalmati, Meghalaya, 25°45'512"N89°57'160"E, 21.03.2013, Coll. AS. Barman, Sub. R. Dhanze.

3.9.8.3 *Trichogaster lalius* (Hamilton 1822): COF-CAU-0187, 1ex??SL, Jinjiram River, Lalmati, Meghalaya, 25°45'512"N89°57'160"E, 21.03.2013, Coll. AS. Barman, Sub. AS. Barman.

3.9.9 Family –Sciaenidae

3.9.9.1 *Pama pama* (Hamilton 1822): COF-CAU-0273, 1ex290.00mmSL, Brahmaputra River, Bhirumanraguri Assam, 26°36'713"N92°51'054"E, 19.10.2016, Coll. P. Biswas

& Party, Sub. R. Dhanze.

3.10 Order –Tetraodontiformes

3.10.1 Family- Tetraodontidae

3.10.1.1 *Tetraodon cutcutia* (Hamilton 1822): COF-CAU-0104, 2ex??SL, Gomati River, Yubarajghat, Tripura, 23°30'273"N91°19'265"E, 23.09.2013, Coll. P. Debnath & A. Chakraborty, Sub. P. Bhattacharjee.

4. Discussion

The compilation of this catalogue is based on the digitization of pertinent data pertaining to each specimen deposited by various researchers for cataloguing in the referral museum of COF, CAU, Lembucherra. So far only 1178 specimens belonging to 157 species, 78 genera, 32 families and 10 orders have been catalogued, as such it is not a complete inventory of the fish species from the region, but just a beginning in as much as approximately one fourth of the material has been identified till date and taxonomic studies are still in progress, which is a continuous process. Once the identification of all the species is completed, many new species may be added or some species may be synonymised or resurrected and will be published as part II or even part III of this catalogue. Now a days it is fashionable to describe a species as near threatened, endangered, or even extinct without assessing its abundance by conducting the requisite surveys or sometime even erroneous identification. Molecular biologists are describing new species based on a little difference in nucleotides without its expression in phenotypic characters. There is no convincing evidence whether such species are really reproductively isolated interbreeding populations (Biological species definition) until unless a standard specific threshold limit is fixed. Kottelat ^[13] rightly quoted, "The now fashionable discussions about cryptic species do not change the situation, one nucleotide does not make a species, be it ever so cryptic. Further, in fishes, the cryptic species, discovered by molecular techniques that I have been told about have been cryptic not because taxonomist could not distinguish them, but because no trained taxonomist ever had an opportunity to examine them". In view of these uncertainties, the revisionary taxonomic studies of many genera and families of the region are urgently required ^[7]. So this catalogue would serve as a database for assessing the abundance and distributional status of different fish species of the Northeastern region, besides taxonomic revision.

5. Conclusion

We have endeavoured to compile and catalogue the material of fish species collected during the last five years from entire Northeastern region of the country so as to have a better insight into the state of the art of our knowledge of fish diversity, their abundance and distributional pattern. In this catalogue only 1178 specimens belonging to 157 species, 78 genera, 32 families and 10 orders are catalogued. Based on the result, the maximum species diversity is seen among the species of the order Cypriniformes, comprising of five families and 85 species followed by the species of the order Siluriformes comprising of nine families and 34 species, where as the minimum diversity is found in the order Tetraodontiformes comprising of only one family, one genus and one species. As such it is not a complete inventory of the fish species from the region, but just a beginning in as much as approximately one fourth of the material has been identified so far. This catalogue will serve as a basic referral database

for conducting status assessment and biosystematic study which inturn would help in management, culture practices and conservation of the fish genetic resources in Northeastern India.

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