Miscellaneous Publication

Occasional Paper No. 1

Records of the Zoological Survey of India

INDEX HORANA

by

K. C. JAYARAM

Issued by the Director

Zoological Survey of India, Calcutta

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RECORDS

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OCCASIONAL PAPER No. I

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An index to the scientific fish names occurring in all the publications of the late Dr. Sunder Lal Hora

BY

K. C. JAYARAM

Edited by the Director, Zoological Survey of India

March, 1976

PRICE: Inland : Rs. 29/-

Foreign: £ 1·6 or $ 3·3

PRINTED IN INDIA AT AMRA PRESS, MADRAS-600 041 AND PUBLISHED BY THE MANAGER OF PUBLICATIONS, CIVIL LINES, DELHI, 1976.

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OF THE

ZOOLOGICAL SURVEY OF INDIA

MISCELLANEOUS PUBLICATION

Occasional Paper

No. 1 **1976** **Pages 1-191**

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SUNDER LAL HORA

May 22, 1896 – Dec. 8, 1955

FOREWORD

To those active in ichthyological research, and especially those concerned with the taxonomy of Indian fishes, the name Sunder Lal Hora is undoubtedly familiar and the fundamental scientific value of his numerous publications is universally acknowledged. Hora showed a determination that well matched his intellectual abilities and amazing versatility. He was a prolific writer and one is forced to admire his singleness of purpose, dedication and indomitable energy for hard work.

Though Hora does not need an advocate to prove his greatness and his achievements, it is a matter of profound pleasure and privilege to write a foreword for *Index Horana* which is a synthesis of what Hora achieved for ichthyology. This arduous work has been completed by one of his well known students, Dr. K.C. Jayaram, who deserves our congratulations. I have no doubt that this work will be well received by both the taxonomists and the fishery biologists.

Dr. S. Khera

Deputy Director-in-Charge,
Zoological Survey of India.

INTRODUCTION

To any student of Indian ichthyology, fisheries, and zoogeography, the publications of the late Dr. Sunder Lal Hora are an indispensable source of reference and in many cases the very basis for further advanced work. This is especially so with taxonomy of freshwater fishes, in which Hora's contributions and pioneering researches are as equally important and invaluable as those of Hamilton Buchanan (1822), and of Francis Day (1875–1878). Day in his treatise on the " Fishes of India " gave a comprehensive account of the fish fauna of India, Pakistan, Bangladesh, Burma and Ceylon. After four decades of dormancy Hora came into the scene of Indian Ichthyology and undertook classification, revision, elucidation and reorientation of many Indian fishes, mostly of freshwater, publishing a series of papers containing many new families, genera and species.

Hora was a prolific writer and published 438 papers during his life time. The wealth of information and data that lie buried in these large and diverse publications remain obscure. A number of species have been described whose taxonomic position was changed by Hora himself in his later works as a result of newer findings, better comprehension of phylogeny and changed concepts in systematics. Similarly, the geographical range of many species were enlarged or restricted due to fresh records obtained on basis of extensive faunistic surveys by Hora and his colleagues in the Zoological Survey of India, and also by working out large fish collections received from different specialists and sources within and outside India. Many descriptions of genera and species were revised, redefined on fresh or larger material and many synonymics were reconstructed. Some species described by Day in his " Fishes of India " were shown to be comprehensive and they were split with well defined diagnosis and new taxonomic limits and precision. Moreover, it is now certain that no single individual can prepare and publish a useful volume on the entire Indian fish fauna in the *Fauna of India* series, if such a proposed volume or volumes is expected, as it should be, to contain up-to-date findings on modern lines on the taxa dealt with, rather than a mere compilation of known details. For either of these projects, the availability of information on all Indian fish species in a concise coded manner is a prerequisite and an absolute necessity. It is indisputable that no other worker has contributed so much to Indian ichthyology as Hora has done in his life span of well over fifty years. No ichthyological work on Indian freshwater fauna can ever remain complete without an essential reference and recourse to Hora's innumerable publications.

Under these circumstances, it was felt that to facilitate the use of Hora's papers, a key to all the scientific fish names occurring in his publications would be necessary, modelled after the one published by Weber and Beaufort for

the scientific writings of Dr. P. Bleeker (Fishes of the Indo-Australian Archipelago, Vol. I, 1912).

The writer started this work many years ago, almost immediately after the sad demise of Dr. Hora. However, owing to other preoccupations, and also due to the enormous nature of the task envisaged this could not be completed earlier. With as many as 438 references to read through, the scientific names to be copied out with their relevant page number, and other details, the task has not been an easy one. Though modelled after the Index for Bleeker's papers cited above, this Index has many important deviations.

SCOPE

Index Horana contains only scientific fish names occurring in the publications of the late Dr. Sunder Lal Hora. 120 papers which do not have any scientific fish names in them or which deal exclusively with other groups of animals such as amphibians, reptiles, molluscs, insects, etc., have been excluded, although listed in the Bibliography, Part I. A list of these papers is given separately classified under broad subject headings with which they deal (Part I–B). If however a paper on a general subject, such as ancient Indian folklore, or fisheries, do contain even a single scientific fish name it is included in the index. Further, this index gives a key to *all* the pages in which a particular fish name occurs irrespective of the fact that the mention may simply be a repetition in a discussion or text or only in a synonymy. Hora's papers are important in this respect that much valuable information is available and becomes progressively conclusive in many papers; the mere mention of the page where the taxa or name is cited for the first time would neither be helpful nor useful for serious students of ichthyology who would like to use this Index as a basis for their checklists, catalogues or further revisionary studies of the Indian freshwater fishes.

METHODS ADOPTED

All the 438 papers of the late Dr. Hora were read through and the scientific fish names excerpted. All these names were written out in separate sheets of paper with the paper number and the pages cited after each. Similarly all the taxa for which plate figures were published were also copied out. The sheets were then checked up carefully for spellings, pagination and also the paper number. Each sheet was taken and the names cut out as slips. These slips were sorted alphabetically and each alphabet separately taken, sub-sorted, arranged alphabetically and the manuscript prepared for each letter. A recheck was made at the time of writing for spelling and where corrections were necessary, they were made. These have been listed separately.

ARRANGEMENT OF THE INDEX

The general arrangement of the work is as follows. The first part lists all the 438 published papers of the late Dr. S.L. Hora arranged chronologically, except for papers 426 to 438. This bibliography is after Roonwal, 1960 (*Rec. Indian Mus.*, **54** (3 & 4): 107–137). This has been adopted since the writer and the late K. N. Bagchi was mainly responsible in the compilation and preparation of Hora's Bibliography in Roonwal's publication. Some inevitable corrections and emendations have however been made. 13 more papers of Dr. Hora, not listed in Roonwal's publication, came to light when this work was almost complete. To incorporate them in the main bibliography would have resulted in further delay and also many changes in the Index; these papers though not chronological, have been appended in the end of the bibliography, with continued serial numbers after 425.

Part II contains the key or the index to all the scientific fish names, of all families, genera and species, occurring in all the scientific papers of Dr. Hora listed in Part I–A. The names are arranged alphabetically. Names which are non-ichthyological or non-scientific, such as popular english names are excluded. For instance, the name ' Catla ' wherever it has been used in a popular sense, as in many Hora's papers on fisheries, pisciculture etc., has been excluded, but when used as a generic name it has been included. Author names of taxa are not given. Cross references where necessary are indicated. Spellings of taxa, which are not of significance taxonomically, have been emended. Noteworthy corrections are listed on pages 4&5. Each name is followed by the serial number of the paper in heavy type, followed by the page or pages in which the name is mentioned. New taxa for which Hora is the author are indicated as family nov., gen. nov., sp. nov., etc., immediately after the name. Where a text-figure is given of a particular species, the page in which this text-figure occurs is mentioned followed by the abbreviation TF within parenthesis and with brief details about the figure itself. Likewise plate illustrations of species are also indicated by citation of the plate number in place of the page number in the concerned paper, the figure number and the details in brackets. Hybrids are listed by the first species with a cross reference. Part III contains a list of new taxa proposed by Hora and their present systematic position as is known at present with reference to relevant recent literature on the concerned taxa.

ACKNOWLEDGEMENTS

This task would not have been complete but for the willing co-operation of many colleagues in the Zoological Survey of India. A number of junior research staff helped in excerpting the thousands of scientific names occurring in the publications of Dr. S. L. Hora. I will be failing in my duty if I do not warmly acknowledge the help and co-operation rendered by Sarvashri Das, Bhattacharya, B. R. Dutta, M. B. Raghunathan, Riyaz Ahmed, P. Ponnu-

rangam, Mrs. T. J. Indra, Kumari A. Chandra and many others. Kumaris A. Subbalakshmi, P. Premila and Shri A. Narasimhan undertook the laborious task of typing the list of names of each paper as and when they became ready and the first named the entire final manuscript. My sincere thanks are due to them for this. I am indebted to the Director, Zoological Survey of India for facilities and also to Dr. A. G. K. Menon, Deputy Director, Southern Regional Station, Zoological Survey of India, for encouragement.

ABBREVIATIONS AND CONDENSATIONS USED

ali. canal	alimentary canal
col.	coloured
distribn.	distribution
fig.	figure
frontispc.	frontispiece plate
lat. view	lateral view
pect.	pectoral
Pl.	plate
TF	Text-Figure
ZSI	Zoological Survey of India
†	fossil taxa

SPELLINGS CORRECTED OR AMENDED IN THE INDEX

As in Hora's Paper	*As corrected in the Index*
Ageniosus	Ageneiosus
Amblytrypauchen (**142:** 843)	Amblyotrypauchen
Anabatidae (**25:** 181)	Anabantidae
Bengana (**78:** 179)	Bangana
Crossochilus	Crossocheilus
Crossochilus latia	Crossocheilus latius
Depedius (**373:** 3)	Dapedius
Elopsidae	Elopidae
Erethistes elongata	Erethistes elongatus
Exostoma labiatus	Exostoma labiatum
Labauca (**160:** 7, 16, 17)	Laubuca

As in Hora's Paper	*As corrected in the Index*
Lepisosteus (**237:** 805)	Lepidosteus
Lissocheilus (**356:** 159)	Lissochilus
Mugil waigiensis (**260:** 12, **276:** 521)	Mugil vaigiensis
Nemachelichthys	Nemachilichthys
Nemacheilus	Nemachilus
Ophiocephalidae	Ophicephalidae
Ophiocephalus	Ophicephalus
Oreinus cosuatus	Oreinus cosuatis
Oreoglanis macropterum (**369:** 22)	Oreoglanis macropterus
Pterocryptes	Pterocryptis
Terapon	Therapon
Terapontidae (**33:** 487)	Theraponidae
Tetrodon	Tetraodon
Trachinotus	Trachynotus
Trachynus	Trachinus

Part I

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438. Distribution of Clariid fishes in space and time.—*Proc. Indian Sci. Congr.*, Calcutta, **38**(4) (1951) :17–18, Abstract, 1952 (joint with A.G.K. Menon).

* Not seen in original

Part I

BIBLIOGRAPHY

B. *List of published papers of the late Dr. Sunder Lal Hora which are non-ichthyological or of a general nature which do not contain any scientific fish names. The following papers are not included in the Index to families, genera and species (Part II). Arranged under broad subject headings with which they deal:—*

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PART II

INDEX TO FAMILIES, GENERA AND SPECIES

* Includes references under *Noemacheilus* also.

Part III

LIST OF NEW TAXA CREATED BY HORA AND THEIR PRESENT SYSTEMATIC POSITION

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
1.	Aborichthys elongatus, sp. nov. **8:** 735 (TF).	Cobitidae, Cypriniformes, valid. Menon, A.G.K. 1974. *Spl. Publn.* No. 1, *Inland Fisheries Soc. India*, Calcutta: 49.
2.	Aborichthys garoensis, sp. nov. **39:** 233 (TF).	
3.	Adiposia, gen. nov. Annandale & Hora. **1:** 183.	Cobitidae, Cypriniformes, valid. Ramaswami, L.S. 1953. *Proc. nat. Inst. Sci. India*, **19**(3): 347.
4.	Akysis prashadi, sp. nov. **149:** 200, 201 (TF).	Akysidae, Siluriformes, valid. Misra, K.S. 1976. *Fauna India*, fishes, **3** (seen in Ms.)
5.	Amblyotrypauchen, gen. nov. **31:** 160.	Taenioididae, Perciformes, valid. Koumans, F.P. 1941. *Mem. Indian Mus.*, **13:** 308.
6.	Amblyotrypauchen fraseri, sp. nov. **31:** 160, 161 (TF).	Taenioididae, Perciformes. Synonymous with *Amblyotrypauchen arctocephalus* (Alcock). Koumans, F.P. 1941. *loc. cit.*
7.	Andamia raoi, sp. nov. **199:** 398, pl. 10, figs. 1–4 and 6.	Blennidae, Perciformes. Synonymous with *Andamia reyi*. Smith-Vaniz, W.F. & Springer, V.G. 1971. *Smithson. Contrib. Zoology*, (73): 18.
8.	Annamia, gen. nov. **95:** 306.	Gastromyzonidae, Cyprinifromes, valid. Silas, E.G. 1952. *Rec. Indian Mus.*, **50**(2): 221.
9.	Balitora brucei burmanicus, var. nov. **95:** 291, pl. 11, fig. 6	Homalopteridae, Cypriniformes, valid. Silas, E.G. 1952. *op. cit.*: 206.
10.	Balitora brucei melanosoma, var. nov. **95:** 291, pl. 10, fig. 6.	
11.	Balitora brucei mysorensis, var. nov. **232:** 232, pl. 8, fig. 4.	

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
12.	Barbus cauveriensis, sp. nov. **160:** 20, 21 (TF).	Cyprinidae, Cypriniformes, valid. No further reference.
13.	Barbus fraseri, sp. nov. **187:** 29, pl. 3, fig. 2.	Cyprinidae, Cypriniformes, valid. No further reference.
14.	Barbus narayani, sp. nov. **160:** 24 25 (TF).	Cyprinidae, Cypriniformes, valid. DAVID, A. 1956. *Proc. nat. Inst. Sci. India*, **22** (13): 164.
15.	Barbus shanensis, sp. nov. **129:** 362, 363 (TF).	Cyprinidae, Cypriniformes, valid. No further reference.
16.	Barbus (Puntius) binduchitra, sp. nov. **177:** 327, 328 (TF).	Cyprinidae, Cypriniformes. = *Puntius sarana binduchitra* (Hora). PILLAY. T V.R. 1951. *Proc. nat. Inst. Sci. India*, **17**(5): 331–348.
17.	Barbus (Puntius) smithi, sp. nov. **25:** 156, pl. 11, fig. 1.	Cyprinidae, Cypriniformes. Synonymous with *Puntioplites proctozysron* (Bleeker). SMITH, H.M. 1945. *Bull. U.S. nat. Mus.*, (188): 194.
18.	Barilius dogarsinghi, sp. nov. **7:** 191, 192 (TF).	Cyprinidae, Cypriniformes, valid. MENON, A.G.K. 1974. *op. cit.*: 13.
19.	Batasio travancoria, sp. nov. **222:** 40, 41 (TF), pl. 2, figs. 7–9.	Bagridae, Siluriformes, valid. SILAS, E.G. 1951. *J. Bombay nat. Hist. Soc.*, **49:** 676.
20.	Beaufortia, gen. nov. **95:** 318.	Gastromyzonidae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 234.
21.	Bhanotia, gen. nov. **46:** 463.	Syngnathidae, Gasterosteiformes, valid. HERRE, A.W.C.T. 1941. *Mem. Indian Mus.*, **13:** 344.
22.	Bhanotia sewelli, sp. nov. **46:** 465, 466 (TF), pl. 11, fig. 5.	
23.	Bhavania, gen. nov. **2:** 202.	Homalopteridae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 183.
24.	Bhavania annandalei, sp. nov. **2:** 203, pl. 10, figs. 1–3, pl. 11, figs. 5–7.	Homalopteridae, Cypriniformes. Synonymous with *Bhavania australis* (Jerdon). HORA, S.L. 1941. *Rec. Indian Mus.*, **43:** 225.
25.	Botia dayi, sp. nov. **94:** 571.	Cobitidae, Cypriniformes. Synonymous with *Botia rostrata* Günther. MENON, A.G.K. 1974. *op. cit.*: 52,

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
26.	Brachyamblyopus burmanicus, sp. nov. **43:** 455, 456 (TF).	Gobiidae, Perciformes, valid. KOUMANS, F.P. 1941. *op. cit.*: 300.
27.	Brachydanio choprai, sp. nov. **123:** 131.	Cyprinidae, Cypriniformes=*Danio* (*Brachydanio*) *choprai*. No further reference.
28.	Brachydanio sondhii, sp. nov. **123:** 131.	Cyprinidae, Cypriniformes=*Danio* (*Brachydanio*) *sondhii*. No further reference.
29.	†Carchariolamna, gen. nov. **202:** 202.	Myliobatidae, Rajiformes, valid. MENON, A.G.K. 1959. *J. Palaeont. Soc. India*, **4:** 52.
30.	†Carchariolamna heroni, sp. nov. **202:** 203, pl. 13, figs. 1–4.	
31.	Clarias dayi, sp. nov. **155:** 349 (TF), 350 (TF).	Clariidae, Siluriformes=*Clarias dussumieri dayi* (Hora). SILAS, E.G. 1952. *Proc. nat. Inst. Sci. India*, **18** (5): 435.
32.	†Clupea geei, sp. nov. **167:** 189 (TF), 190 (TF), 191 (TF).	Clupeidae, Clupiformes, valid. No further reference.
33.	Clupisoma montana, sp. nov. **174:** 665 (TF), 666 (TF), 673, 674 (TF), 675 (TF).	Schilbeidae, Siluriformes, valid. JAYARAM, K.C. & SINGH, K.P. 1975. *Rec. zool. Surv. India* (seen in Ms.).
34.	Clupisoma prateri, sp. nov. **174:** 665 (TF), 671, 672 (TF).	Schilbeidae, Siluriformes, valid. No further reference.
35.	Conta, gen. nov. **345:** 194.	Sisoridae, Siluriformes, valid. MENON, A.G.K. 1974. *op. cit.*: 75.
36.	Coraglanis, gen. nov. **369:** 12.	Sisoridae, Siluriformes, valid. HORA, S.L. & SILAS, E.G. 1951. *Rec. Indian Mus.*, **49:** 12.
37.	Crossochilus latius burmanicus, subsp. nov. **153:** 324.	Cyprinidae, Cypriniformes. Synonymous with *Crossochilus latius latius* (Hamilton). MENON, A.G.K. 1974. *op. cit.*: 26.

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
38.	Ctenogobius cylindriceps, sp. nov. **18:** 745 (TF).	Gobiidae, Perciformes. KOUMANS, F.P. 1941. *op. cit.*: 238. Current name *Oligolepis cylindriceps* (Hora).
39.	Ctenogobius dentifer, sp. nov. **18:** 747 (TF).	Gobiidae, Perciformes. Synonymous with *Acentrogobius cyanomos* (Bleeker). KOUMANS, F.P. 1941. *op. cit.*: 228.
40.	Ctenogobius globiceps, sp. nov. **18:** 744 (TF).	Gobiidae, Perciformes. Current name *Acentrogobius globiceps* (Hora). KOUMANS, F.P. 1941. *op. cit.*: 234.
41.	Ctenogobius megitti, sp. nov. **146:** 30, 31 (TF), pl. 1, figs. 3–4.	Gobiidae, Perciformes. Synonymous with *Bathygobius fuscus* (Rüppell). KOUMANS, F.P. 1941. *op. cit.*: 267.
42.	Ctenogobius minima, sp. nov. **18:** 749 (TF).	Gobiidae, Perciformes. Synonymous with *Stigmatogobius minima* (Hora). KOUMANS, F.P. 1941. *op. cit.*: 264.
43.	Ctenotrypauchen barnardi, sp. nov. **51:** 221, 222 (TF).	Gobiidae, Perciformes. Synonymous with *Trypauchen microcephalus* Bleeker. SMITH, J. L. B. 1965. The Sea fishes of Southern Africa, p. 338.
44.	Culter siamensis, sp. nov. **25:** 149, pl. 10, fig. 1; pl. 11, figs. 4, 5.	Cyprinidae, Cypriniformes. Synonymous with *Cultrops siamensis* (Hora). SMITH, H.M. 1945. *Bull. U.S. nat. Mus.*, (188): 86.
45.	Danio feegradei, sp. nov. **177:** 325, 326 (TF).	Cyprinidae, Cypriniformes, valid. No further reference.
46.	Danio (Brachydanio) acuticephala, sp. nov. **7:** 193, 194 (TF).	Cyprinidae, Cypriniformes, valid. MENON, A.G.K. 1974. *op. cit.*: 15.
47.	Danio (Brachydanio) choprae, sp. nov. **70:** 39, 40 (TF).	Cyprinidae, Cypriniformes, valid. No further reference after HORA, S.L. 1937. *Rec. Indian Mus.*, **39**(4): 324.
48.	Danio (Brachydanio) shanensis, sp. nov. **70:** 38 (TF).	Cyprinidae, Cypriniformes, valid. SMITH, H.M. 1945. *op. cit.*: 101.
49.	Danio (Brachydanio) sondhii, sp. nov. **123:** 128, 129 (TF).	Cyprinidae, Cypriniformes, valid. No further reference.
50.	Danio (Danio) fraseri, sp. nov. **138:** 378, 379 (TF).	Cyprinidae, Cypriniformes, valid. No further reference.

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
51.	†Daunichthys, gen. nov. **41:** 204 (TF).	Cyprinidae, Cypriniformes, valid. No further reference.
52.	†Daunichthys gregorianus, sp. nov. **41:** 205, 206 (TF); pl. 14, fig. 1.	Cyprinidae, Cypriniformes, valid. No further reference.
53.	Diplophysa stewarti, sp. nov. **12:** 70, 71 (TF).	Cobitidae, Cypriniformes, valid. RAMASWAMI, L.S. 1953. *loc. cit.*
54.	Doryichthys insularis, sp. nov. **38:** 38, pl. 2, fig. 1.	Syngnathidae, Gasterosteiformes, valid. HERRE, A.W.C.T 1941. *op. cit.*: 344.
55.	Erethistoides, gen. nov. **345:** 190.	Sisoridae, Siluriformes. MENON, A.G.K. 1974. *op. cit.*: 75.
56.	Erethistoides montana, sp. nov. **345:** 191, pl. 12, figs. 10–12.	Sisoridae, Siluriformes. *Erethistoides montana montana.* MENON, A.G.K. 1974. *op. cit.*: 76.
57.	Erethistoides montana pipri, subsp. nov. **345:** 193, pl. 12, figs. 7–9.	Sisoridae, Siluriformes, valid. MENON, A.G.K. 1974. *op. cit.*: 76.
58.	Esomus ahli, sp. nov. **71:** 47, 48 (TF).	Cyprinidae, Cypriniformes, valid. No further reference.
59.	Euchiloglanis sinensis, sp. nov. **369:** 17, 18 (TF).	Sisoridae, Siluriformes, valid. No further reference.
60.	Garra abhoyai, sp. nov. **9:** 664, pl. 26, figs. 1, 1a, 1b.	Cyprinidae, Cypriniformes. Synonymous with *Garra rupecula* (McClelland). MENON, A.G.K. 1964. *Mem. Indian Mus.*, **14:** 220.
61.	Garra annandalei, sp. nov. **9:** 657.	Cyprinidae, Cypriniformes, valid. MENON, A.G.K. 1964. *op. cit.*: 217.
62.	Garra arabica, sp. nov. **9:** 677, 678 (TF).	Cyprinidae, Cypriniformes. Synonymous with *Garra nasuta* (McClelland). MENON, A.G.K. 1964. *op. cit.*: 240.
63.	Garra chaudhurii, sp. nov. **9:** 671, pl. 25, fig. 3.	Cyprinidae, Cypriniformes. Synonymous with *Garra annandalei* Hora. MENON, A.G.K. 1964. *op. cit.*: 217.
64.	Garra jenkinsonianum, sp. nov. **9:** 673, pl. 25, fig. 1.	Cyprinidae, Cypriniformes. Synonymous with *Garra mullya* (Sykes). MENON, A.G.K. 1964. *op. cit.*: 213.

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
65.	Garra kempi, sp. nov. **9:** 665, pl. 26, figs. 3, 3a.	Cyprinidae, Cypriniformes, valid. MENON, A.G.K. 1964. *op. cit.*: 227.
66.	Garra montisalsi, sp. nov. **9:** 651.	Cyprinidae, Cypriniformes. Synonymous with *Garra gotyla gotyla* (Gray). MENON, A.G.K. 1964. *op. cit.*: 233.
67.	Garra naganensis, sp. nov. **9:** 667, pl. 25, figs. 2, 2a.	Cyprinidae, Cypriniformes, valid. MENON, A.G.K. 1964. *op. cit.*: 226.
68.	Garra prashadi, sp. nov. **9:** 669, pl. 24, fig. 3.	Cyprinidae, Cypriniformes. Synonymous with *Garra lamta* Hamilton. MENON, A.G.K. 1964. *op. cit.*: 209.
69.	Garra salweenica, sp. nov. **129:** 365 (TF).	Cyprinidae, Cypriniformes. Synonymous with *Garra nasuta* (McClelland). MENON, A.G.K. 1964. *op. cit.*: 239.
70.	Glossogobius mas, sp. nov. **18:** 742 (TF).	Gobiidae, Perciformes. Species uncertain. KOUMANS, F.P. 1941. *op. cit.*: 329.
71.	Glyptosternum chaudhurii, sp. nov. **19:** 41, 42 (TF).	Sisoridae, Siluriformes. Synonymous with *Exostoma vinciguerrae* (Regan). HORA, S. L. & SILAS, E. G. 1951. *Rec. Indian Mus.*, **49:** 25.
72.	Glyptosternum hodgarti, sp. nov. **19:** 38, pl. 2, figs. 1, 2, 3.	Sisoridae, Siluriformes. Synonymous with *Euchiloglanis hodgarti* (Hora). HORA, S.L. & SILAS, E.G. 1951. *op. cit.*: 17.
73.	Glyptosternum stuarti, sp. nov. **19:** 39, pl. 2, figs. 4, 5, 6.	Sisoridae, Siluriformes. Synonymous with *Exostoma stuarti* (Hora). HORA, S.L. & SILAS, E.G. 1951. *op. cit.*: 26.
74.	Glyptothorax annandalei, sp. nov. **19:** 14, pl. 1, fig. 3.	Sisoridae, Siluriformes, valid. MENON, M.A.S. 1954. *Rec. Indian Mus.*, **52:** 52.
75.	Glyptothorax brevipinnis, sp. nov. **19:** 16, pl. 1, fig. 4.	Sisoridae, Siluriformes, valid. MENON, M.A.S. 1954. *op. cit.*: 37.
76.	Glyptothorax conirostris *var.* poonaensis, nov. **198:** 368, pl. 7, figs. 5, 6.	Sisoridae, Siluriformes, valid. MENON, M.A.S. 1954. *op. cit.*: 36.
77.	Glyptothorax kashmirensis, sp. nov. **19:** 22, 23 (TF).	Sisoridae, Siluriformes, valid. MENON, M.A.S. 1954. *op. cit.*: 52.

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
78.	Glyptothorax minutus, sp. nov. **7:** 180, 181 (TF).	Sisoridae, Siluriformes. Synonymous with *Glyptothorax platypogonoides* (Bleeker). MENON, M.A.S. 1954. *op. cit.*: 44.
79.	Glyptothorax siamensis, sp. nov. **25:** 168, pl. 12, figs. 1–3.	Sisoridae, Siluriformes. Synonymous with *Glyptothorax platypogonoides* (Bleeker). SMITH, H.M. 1945. *op. cit.*: 397.
80.	Glyptothorax trewavasae, sp. nov. **198:** 373, pl. 7, figs. 3, 4.	Sisoridae, Siluriformes, valid. MENON, M.A.S. 1954. *op. cit.*: 46.
81.	Gyrinochelidae, fam. nov. **25:** 159.	Cypriniformes, valid. GREENWOOD, P.H. *et al.* 1966. *op. cit.*: 396.
82.	Heteropneustidae, fam. nov. **152:** 209.	Siluriformes, valid. GREENWOOD, P.H. *et al.* 1966. *op. cit.*: 396.
83.	Homaloptera leonardi, sp. nov. **227:** 61, pl. 5, figs. 5, 6.	Homalopteridae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 201.
84.	Homaloptera smithi, sp. nov. **95:** 286, pl. 11, fig. 3.	Homalopteridae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 190.
85.	Homaloptera stephensoni, sp. nov. **95:** 281, pl. 11, fig. 1.	Homalopteridae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 192.
86.	Homaloptera weberi, sp. nov. **95:** 284, pl. 11, fig. 2.	Homalopteridae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 193.
87.	Kanduka, gen. nov. **32:** 579.	Tetraodontidae, Tetraodontiformes, valid. No further reference.
88.	Kanduka annandalei, sp. nov. **47:** 468, 469 (TF).	Tetraodontidae, Tetraodontiformes, valid. No further reference.
89.	Kanduka michiei, sp. nov. **32:** 579, pl. 24, figs. 1–7.	Tetraodontidae, Tetraodontiformes, valid. No further reference.
90.	Kantaka, subgen. nov. **249:** 9.	Cyprinidae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 424.
91.	Labeo devdevi, sp. nov. **153:** 324.	Cyprinidae, Cypriniformes, valid. No further reference after HORA, S.L. 1941. 479, 480.

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
92.	Laguvia, gen. nov. **8:** 739.	Sisoridae, Siluriformes, valid. JAYARAM, K.C. 1972. *Rec. zool. Surv. India,* **67:** 385, 389.
93.	Laguvia ribeiroi, sp. nov. **8:** 741, pl. 29, fig. 3.	
94.	Laguvia shawi, sp. nov. **8:** 740, pl. 29, fig. 2.	
95.	Lepidocephalichthys irrorata, sp. nov. **7:** 196, pl. 9, figs. 5, 5a, 5b.	Cobitidae, Cypriniformes, valid. *Lepidocephalus irrorata* Hora. MENON, A.G.K. 1974. *op. cit.* :53.
96.	Lepturichthys guentheri, sp. nov. **95:** 295, pl. 10, fig. 7.	Homalopteridae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 211.
97.	Lepturichthys nicholsi, sp. nov. **95:** 297, pl. 10, fig. 8; pl. 12, fig. 3.	
98.	Macronoides, gen. nov. **7:** 179.	Bagridae, Siluriformes. Synonymous with *Batasio* Blyth. HORA, S.L. & LAW, N.C. 1941. *Rec. Indian Mus.*, **43:** 28.
99.	Mastacembelus armatus favus, var. nov. **25:** 180. **33:** 474 (TF, fuller description).	Mastacembelidae, Mastacembeliformes, valid. SMITH, H.M. 1945. *op. cit.*: 64.
100.	Mastacembelus circumcinctus, sp. nov. **33:** 475 (TF).	Mastacembelidae, Mastacembeliformes, valid. SMITH, H.M. 1945. *op. cit.*: 65.
101.	Mastacembelus manipurensis, sp. nov. **7:** 206, pl. 9, fig. 3.	Mastacembelidae, Mastacembeliformes. Synonymous with *Mastacembelus armatus armatus* (Lacépède). MENON, A.G.K. 1974. *op. cit.*: 100.
102.	Micrapocryptes, gen. nov. **18:** 751.	Gobiidae, Perciformes. Synonymous with *Gobiopterus* Bleeker. KOUMANS, F.P. 1941. *op. cit.*: 297.
103.	Micrapocryptes fragilis, sp. nov. **18:** 751, 752 (TF), 753 (TF).	Gobiidae, Perciformes. Synonymous with *Gobiopterus chuno* (Ham.). KOUMANS, F.P. 1941. *op. cit.*:297.
104.	Microphis annandalei, sp. nov. **33:** 472, 473 (TF).	Syngnathidae, Gasterosteiformes, valid. SMITH, H.M. 1945. *op. cit.*: 443.
105.	Myersglanis, gen. nov. **369:** 19.	Sisoridae, Siluriformes, valid. MENON, A.G.K. 1974. *op. cit.*: 82.

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
106.	Nannocampichthys, gen. nov. **146:** 22 (TF).	Syngnathidae, Gasterosteiformes, valid. No further reference.
107.	Nannocampichthys gigas, sp. nov. **146:** 22 (TF), 23.	
108.	Nemachilus acuticephalus, sp. nov. **77:** 328, pl. 14, figs. 5, 6.	Cobitidae, Cypriniformes. valid. No further reference after **143:** 302.
109.	Nemachilus bhimachari, sp. nov. **160:** 13 (TF).	Cobitidae, Cypriniformes, valid. DAVID, A. 1956. *op. cit.*: 153.
110.	Nemachilus choprai, sp. nov. **117:** 310, 311 (TF).	Cobitidae, Cypriniformes, valid. No further reference.
111.	Nemachilus dayi, sp. nov. **135:** 57. (=N.savona Day).	Cobitidae, Cypriniformes, valid. MENON, A.G.K. 1974. *op. cit.*: 55.
112.	Nemachilus deterrai, sp. nov. **143:** 311, 312 (TF), pl. 12, figs. 5, 6.	Cobitidae, Cypriniformes, valid. No further reference.
113.	Nemachilus devdevi, sp. nov. **135:** 54, pl. 3, figs. 5, 6.	Cobitidae, Cypriniformes, valid. MENON, A.G.K. 1974. *op. cit.*: 55.
114.	Nemachilus farwelli, sp. nov. **133:** 798 (TF), 799, pl. 1.	Cobitidae, Cypriniformes, valid. VIJAYALAKSHMANAN, M.A. 1950. *Rec. Indian Mus.*, **47:** 223.
115.	Nemachilus griffthi *var.* afghana, nov. **133:** 798 (TF). 799.	
116.	Nemachilus hutchinsoni, sp. nov. **143:** 314, 315 (TF), pl. 12, figs. 1, 2.	Cobitidae, Cypriniformes. No further reference.
117.	Nemachilus kangjupkhulensis, sp. nov. **7:** 202, pl. 10, figs. 4, 4a.	Cobitidae, Cypriniformes, valid. MENON, A.G.K. 1974. *op. cit.*: 55.
118.	Nemachilus kashmirensis, sp. nov. **12:** 76.	Cobitidae, Cypriniformes, valid. SILAS, E.G. 1960. *op. cit.*: 71.
119.	Nemachilus monilis, sp. nov. **5:** 19, 20 (TF).	Cobitidae, Cypriniformes, valid. RAJAN, S. 1963. *op. cit.*: 296.

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
120.	Nemachilus panguri, sp. nov. **143:** 318, TF), pl. 12, figs. 3, 4.	Cobitidae, Cypriniformes. No further reference.
121.	Nemachilus paucifasciatus, sp. nov. **77:** 330, pl. 15, figs. 1, 2.	Cobitidae, Cypriniformes, valid. MUKERJI, D.D. 1933. *op. cit.* 815.
122.	Nemachilus peguensis, sp. nov. **77:** 320, pl. 14, figs. 1, 2.	Cobitidae, Cypriniformes, valid. No further reference.
123.	Nemachilus prashadi, sp. nov. **7:** 203, pl. 10, figs. 2, 2a.	Cobitidae, Cypriniformes, valid. MENON, A.G.K. 1974. *op. cit.*: 56.
124.	Nemachilus prashari, sp. nov. **105:** 189, pl. 5, figs. 1, 2.	Cobitidae, Cypriniformes, valid. No further reference. (Species from Kohat, Pakistan. Distinct from *N. prashadi* Hora from Manipur).
125.	Nemachilus punjabensis, sp. nov. **24:** 384, 385 (TF).	Cobitidae, Cypriniformes, valid. MENON, A.G.K. 1974. *op. cit.*: 56.
126.	Nemachilus raoe, sp. nov. **77:** 332, pl. 15, figs. 7, 8.	Cobitidae, Cypriniformes, valid. No further reference.
127.	Nemachilus rivulicola, sp. nov. **77:** 324, pl. 15, figs. 3, 4.	Cobitidae, Cypriniformes, valid. No further reference.
128.	Nemachilus rupicola *var.* inglisi, nov. **135:** 58, pl. 3, figs. 9, 10.	Cobitidae, Cypriniformes, valid. MENON, A.G.K. 1974. *op. cit.*: 57.
129.	Nemachilus shanensis, sp. nov. **77:** 322, pl. 15, figs. 5, 6.	Cobitidae, Cypriniformes, valid. No further reference.
130.	Nemachilus shebbeari, sp. nov. **135:** 52, pl. 3, figs. 1, 2.	Cobitidae, Cypriniformes, valid. MENON, A.G.K. 1974. *op. cit.*: 58.
131.	Nemachilus sikmaiensis, sp. nov. **7:** 201, pl. 9, fig. 4; pl. 10, figs. 1, 1a.	Cobitidae, Cypriniformes, valid. MENON, A.G.K. 1974. *op. cit.*: 58.
132.	Nemachilus vinciguerrae, sp. nov. **135:** 62, pl. 3, fig. 12.	Cobitidae, Cypriniformes, valid. No further reference.
133.	Nukta, subgen. nov. **250:** 13.	Cyprinidae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 424.

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
134.	Olyridae, fam. nov. **150:** 206.	Siluriformes, valid. GREENWOOD, P.H. *et al.* 1966. **131:** 396.
135.	Osteochilichthys, subgen. nov. **249:** 8.	Cyprinidae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 424.
136.	Osteochilus sondhii, sp. nov. **129:** 359, 360 (TF).	Cyprinidae, Cypriniformes, valid. No further reference.
137.	Parapseudecheneis, gen. nov. **79:** 216.	Sisoridae, Siluriformes, valid. No further reference after **375:** 123–128.
138.	Parapsilorhynchus, gen. nov. **4:** 13.	Psilorhynchidae, Cypriniformes, valid. RAMASWAMI, L.S. 1952. *Proc. nat. Inst. Sci. India*, **18**(2): 141–150.
139.	Paraspsilorhynchus discophorus, sp. nov. **4:** 14, 15 (TF).	Psilorhynchidae, Cypriniformes. Synonymous with *Parapsilorhynchus tentaculatus* (Annandale). HORA, S.L. & MISRA, K.S. 1938. *J. Bombay nat. Hist. Soc.*, **40**(1): 34.
140.	Parapsilorhynchus prateri, sp. nov. **187:** 32, pl. 3, figs. 1, 1a, 1b.	Psilorhynchidae, Cypriniformes, valid. No further reference.
141.	Parhomaloptera normani, sp. nov. **81:** 584, pl. 15, figs. 1–4.	Gastromyzonidae, Cypriniformes. Synonymous with *Annamia normani* (Hora). SILAS, E.G. 1952. *op. cit.*: 221.
142.	Platytropius, gen. nov. **159:** 352 (name with indication). **173:** 39 (fuller details).	Schilbeidae, Siluriformes, valid. SMITH, H.M. 1945. *op. cit.*: 355.
143.	Polynemus sextarius *var.* multani, nov. **42:** 453, 454 (TF, pelvic fin and girdle).	Polynemidae, Polynemiformes. Not valid. Synonym of *P. sextarius* (Bl. & Sch.). MARATHE, V.B. & BAL D.V. 1958. *J. Univ. Bombay*, **26** B: 139–151.
144.	Proeutropichthys, gen. nov. **159:** 353.	Schilbeidae, Siluriformes, valid. MISRA, K.S. 1976. *op. cit.*
145.	Progastromyzon, gen. nov. **362:** 191.	Gastromyzonidae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 932.
146.	Progastromyzon griswoldi, sp. nov. **362:** 192 (TF).	

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
147.	Propseudecheneis, gen. nov. **182:** 348, 349.	Sisoridae, Siluriformes, valid. No further reference after **375:** 123–128.
148.	Propseudecheneis tchangii, sp. nov. **182:** 348, 349 (TF).	
149.	Protomyzon, gen. nov. **95:** 306.	Gastromyzonidae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 237, 238.
150.	Protomyzon borneensis, sp. nov. **362:** 193, 194 (TF).	
151.	Psilorhynchidae, fam. nov. **45:** 460.	Cypriniformes, valid. GREENWOOD, P.H. *et al.* 1966. *op. cit.*: 396.
152.	Psilorhynchus homaloptera, sp. nov. **139:** 391, pl. 7, figs. 1–5.	Psilorhynchidae, Cypriniformes, valid. MENON, A.G.K. 1974. *op. cit.*: 48.
153.	Psilorhynchus homaloptera *var.* rowleyi, nov. **224:** 481, pl. 1, figs. 1, 2.	Psilorhynchidae, Cypriniformes, valid. No further reference.
154.	Rhyncobdella dhanashorii, sp. nov. **7:** 205 (TF), pl. 9, fig. 2.	Mastacembelidae, Mastacembeliformes. Synonymous with *Macrognathus aculeatus* (Bloch). MENON, A.G.K. 1974. *op. cit.* :101.
155.	Rohtee dayi, sp. nov. **211:** 162.	Cyprinidae, Cypriniformes, valid. No further reference.
156.	Salarias burmanicus, sp. nov. **146:** 34, pl. 1, fig. 1.	Blennidae, Perciformes. Current name *Entomacrodus burmanicus* (Hora). SPRINGER, V.C. 1967. *Proc. U.S. nat. Mus.*, **122,** 150 pp., 30 pls.
157.	Scaphiodon readingi, sp. nov. **24:** 379, pl. 8, figs. 1–4.	Cyprinidae, Cypriniformes. Synonymous with *Cyprinion watsoni* (Day). MENON, A.G.K. 1974. *op. cit.* :27.
158.	Sciaena siamensis, sp. nov. **33:** 487, 488 (TF).	Scianidae, Perciformes. No further reference.
159.	Sewellia, gen. nov. **95:** 315.	Gastromyzonidae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 230.

Sl. No.	*Taxa as created by Hora with first reference*	*Family, order and present status with recent reference*
160.	Sicyopterus garra, sp. nov. **38:** 35, pl. 2, figs. 2–5.	Gobiidae, Perciformes. Synonymous with *Sicyopterus microcephalus* (Bleeker). KOUMANS, F.P. 1941. *op. cit.*: 295.
161.	Silonopangasius, gen. nov. **159:** 352.	Schilbeidae, Siluriformes. Synonymous with *Silonia* Swainson. SILAS, E.G. 1952. *op. cit.*: 433.
162.	Silurus sinensis, sp. nov. **180:** 343 (TF).	Siluridae, Siluriformes, valid. *Silurus gilberti* Hora. HAIG, J. 1950. *Rec. Indian Mus.* **48:** 100.
163.	(?) Syngnathus investigatoris, sp. nov. **46:** 461, pl. 11, fig. 4.	Syngnathidae, Gasterosteiformes, valid. No further reference.
164.	Taenioides chilkensis, sp. nov. **18:** 757 (TF).	Gobiidae, Perciformes. Species uncertain. KOUMANS, F.P. 1941. *op. cit.*: 329.
165.	Taenioides nigromarginatus, sp. nov. **33:** 496 (TF).	Gobiidae, Perciformes, valid. KOUMANS, F.P. 1941. *op. cit.*: 302.
166.	Tetraodon (Monotretus) travancoricus, sp. nov. **229:** 391 (TF).	Tetraodontidae, Tetraodontiformes, valid. No further reference.
167.	Travancoria, gen. nov. **232:** 228.	Homalopteridae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 203.
168.	Travancoria jonesi, sp. nov. **232:** 230, pl. 8, figs. 5–9.	Homalopteridae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 204.
169.	Vanmanenia, gen. nov. **95:** 309.	Homalopteridae, Cypriniformes, valid. SILAS, E.G. 1952. *op. cit.*: 225.
170.	Wallagonia tweedei, sp. nov. **226:** 18, 19 (TF).	Siluridae, Siluriformes, valid. *Wallago tweediei* (Hora & Misra). HAIG. J. 1950. *op. cit.*: 102.

Part IV

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ADDENDA

Page		
13.	Paper No. 122	Volume, part number of *Curr. Sci.* Read **2**(11) for **36**(4).
41.	Andamia raoi, sp. nov.	Add fig. 6 (photograph of a portion of the skin of head).
47.	Barbus capito conocephalus x Schizothorax pseudatsaiensis issykkuli	Read pseudaksaiensis for pseudatsaiensis.
48.	Barbus fraseri, sp. nov.	Add page 29 also.
56.	Batasio travancoria, sp. nov.	Add page 41 after 40 and before brackets.
62.	†Carchariolamna heroni	Add, sp. nov. after heroni.
72.	Crossochilus latius	Add latius burmanicus, subsp. nov. **153:** 324, above latius punjabensis.
82.	†Daunichthys gregorianus, sp. nov.	Add page 206 (TF) in between 205 and 207.
113.	Lepidocephalichthys irrorata, sp. nov.	Add pl. 9, figs. 5, 5a, 5b after page 211.
120.	Mastacembelus manipurensis, sp. nov.	Add pl. 9, fig. 3 after page 206.
127.	Nemachilus deterrai, sp. nov.	Add page 311 in between 304 (TF) and 312 (TF).
128.	Nemachilus kangjupkhulensis, sp. nov.	Add pl. 10, figs. 4, 4a after **139:** 398.
129.	Nemachilus prashadi, sp. nov.	Add pl. 10, figs. 2, 2a after **7:** 204.
129.	Nemachilus punjabensis	Add, sp. nov. after punjabensis.
129.	Nemachilus rupicola *var.* inglisi, nov.	Read fig. 9 (lateral view) for fig. 4 in **135:** pl. 3.
130.	Nemachilus sikmaiensis, sp. nov.	Add pl. 9, fig. 4; pl. 10, figs. 1, 1a after **7:** 202.
140.	Parapseudecheneis, gen. nov.	Add page 216 in **79** before page 217.
154.	Rhyncobdella dhanashorii, sp. nov.	Add pl. 9, fig. 2, after **7:** 205 (TF).