

CATALOGUE OF THE FISHES FIGURED IN DAY'S "FISHES  
OF INDIA" AND DEPOSITED IN THE ZOOLOGICAL  
SURVEY OF INDIA, CALCUTTA

PART I.—PLEURONECTIFORMES, TETRAODONTIFORMES, LOPHIIFORMES  
BATRACHOIDIFORMES AND BELONIFORMES

*By*

P. K. TALWAR AND S. CHAKRAPANY

*Zoological Survey of India, Calcutta*

CONTENTS

	PAGE
I—INTRODUCTION ... ..	121
II—SYSTEMATIC LIST ... ..	122
III—SUMMARY • ... ..	129
IV—ACKNOWLEDGEMENTS ... ..	129

I—INTRODUCTION

Day (1875-1888)\* in his "Fishes of India" figured 2025 specimens most of which are deposited in the British Museum (Natural History), London, the Australian Museum, Sydney and the National Zoological Collections in the Zoological Survey of India, Calcutta. The value of these specimens, especially the type specimens of the species described by Day and Day's figured specimens which formed the basis of new species by later workers, is very great as is evidenced in the innumerable enquiries received from Ichthyologists all over the world from time to time regarding the availability of these specimens in the Zoological Survey of India. In order to facilitate the work of those interested in the examination of Day's figured specimens, the present catalogue has been prepared.

Thirty-six species of Pleuronectiformes, thirty-eight of Tetraodontiformes, three of Lophiiformes, two of Batrachoidiformes and sixteen of Beloniformes are figured by Day. Of these twenty-four species of Pleuronectiformes, eighteen of Tetraodontiformes, two each of Lophiiformes and Batrachoidiformes, and eight of Beloniformes are available in the collections. Thus, a total of fifty-four species are catalogued in this paper. The measurement given represents the standard length. The registration numbers of Day's figured specimens are given in the same order as they are treated under synonyms.

---

\*Day, F. 1875-1878. The Fishes of India. Parts I and II. Williams & Norgate, London, I-XX, 1-816, 195 pls.

## II—SYSTEMATIC LIST

## Order 1. PLEURONECTIFORMES

## Family 1. BOTHIDAE

1. *Bothus pantherinus* Rüppell

1828. *Bothus pantherinus* Rüppell, *Fische. roth. Meers.*, p. 121, pl. 31, fig. 1.

1877. *Platophrys pantherinus* : Day, *Fish. India*, p. 425, pl. 92, figs. 3 & 4.

ZSI\* No. 1189; 128 mm.; Andamans.

ZSI No. 2357; 92 mm.; Andamans.

*Remarks.*—The specimen numbered 2357 slightly distorted at the opercular region.

2. *Pseudorhombus arsius* (Hamilton)

1822. *Pleuronectes arsius* Hamilton, *Fish. Ganges*, p. 128.

1877. *Pseudorhombus arsius* : Day, *Fish. India*, p. 423, pl. 91, fig. 5.

ZSI No. 1187; 152 mm.; Andamans.

*Remarks.*—Caudal fin slightly damaged.

3. *Pseudorhombus elevatus* Ogilby

1877. *Pseudorhombus javanicus* Day (part), *Fish. India*, p. 424, pl. 92, fig. 2.

1912. *Pseudorhombus elevatus* Ogilby, *Mem. Queensland Mus.*, 1, p. 45.

ZSI No. 1184; 86 mm.; Madras.

*Remarks.*—Caudal fin slightly damaged.

4. *Pseudorhombus macrognathus* Norman

1877. *Pseudorhombus javanicus* Day (part), *Fish. India*, p. 424, pl. 92, fig. 2.

1927. *Pseudorhombus micrognathus* Norman, *Rec. Indian Mus.*, 29, p. 16.

ZSI No. 1184; 86 mm.; Madras.

*Remarks.*—Caudal fin slightly damaged.

5. *Pseudorhombus triocellatus* (Bloch & Schneider)

1801. *Pleuronectes triocellatus* Bloch & Schneider, *Syst. Ichth.*, p. 145.

1877. *Pseudorhombus triocellatus* : Day, *Fish. India*, p. 424, pl. 92, fig. 1.

ZSI No. 1185; 103 mm.; Madras.

## Family 2. CYNOGLOSSIDAE

6. *Cynoglossus brevirostris* Day

1877. *Cynoglossus brevirostris* Day, *Fish. India*, p. 437, pl. 97, fig. 6.

ZSI No. 2690; 101 mm.; Madras.

*Remarks.*—Caudal damaged.

7. *Cynoglossus brevis* Günther

1862. *Cynoglossus brevis* Günther, *Cat. Fish. Brit. Mus.*, 4, p. 500.

1877. *Cynoglossus brevis* : Day, *Fish. India*, p. 437, pl. 97, fig. 2.

ZSI No. 1459; 90 mm.; Calcutta.

---

\* ZSI = Zoological Survey of India, Calcutta (India).

8. *Cynoglossus dispar* Day

1877. *Cynoglossus dispar* Day, *Fish. India*, p. 434, pl. 96, fig. 2.  
ZSI No. 2715 ; 263 mm. ; Sind (Pakistan).

9. *Cynoglossus lida* (Bleeker)

1851. *Plagusia lida* Bleeker, *Natuurk. Tijdschr. Ned.—Indië.*, 1, p. 413.  
1877. *Cynoglossus lida* : Day, *Fish. India*, p. 436, pl. 97, fig. 3.  
ZSI No. 2688 ; 108 mm. ; Burma.  
*Remarks.*—Caudal totally mutilated.

10. *Cynoglossus lingua* Hamilton

1822. *Cynoglossus lingua* Hamilton, *Fish. Ganges*, pp. 32, 365.  
1877. *Cynoglossus elongatus* Day, *Fish. India*, p. 433, pl. 90, fig. 5.  
1877. *Cynoglossus lingua* : Day, *Fish. India*, p. 433, pl. 96, fig. 1.  
ZSI No. 2716 ; 168 mm. ; Madras.  
ZSI No. 1208 ; 220 mm. ; Calcutta.

11. *Cynoglossus macrolepidotus* (Bleeker)

1850. *Plagusia macrolepidotus* Bleeker, *Natuurk. Tijdschr. Ned.—Indië.*, 1, p. 415.  
1877. *Cynoglossus macrolepidotus* : Day, *Fish. India*, p. 434, pl. 96, fig. 3.  
1877. *Cynoglossus oligolepis* Day, *Fish. India*, p. 433, pl. 95, fig. 4.  
ZSI No. 1143 ; 119 mm. ; Madras.  
ZSI No. 1458 ; 115 mm. ; Madras.

12. *Cynoglossus macrostomus* Norman

1877. *Cynoglossus hamiltonii* Day (*nec.* Günther) *Fish. India*, p. 436, pl. 95, fig. 3.  
1928. *Cynoglossus macrostomus* Norman, *Rec. Indian Mus.*, 30, p. 204.  
ZSI No. 1460 ; 120 mm. ; Calcutta.

13. *Cynoglossus puncticeps* (Richardson)

1845. *Plagusia puncticeps* Richardson, (1846), *Rept. Brit. Assoc. Adv. Sci.*, p. 280.  
1877. *Cynoglossus brachyrhynchus* Day, *Fish. India*, p. 435, pl. 96, fig. 4.  
1877. *Cynoglossus puncticeps* : Day, *Fish. India*, p. 437, pl. 97, fig. 1.  
ZSI No. 1462 ; 146 mm. ; Moulmein, (Burma).  
ZSI No. 2693 ; 142 mm. ; Madras.

14. *Cynoglossus quinquelineatus* Day

1877. *Cynoglossus quinquelineatus* Day, *Fish. India*, p. 432, pl. 98, fig. 1.  
ZSI No. 1265 ; 230 mm. ; Madras.

15. *Cynoglossus semifasciatus* Day

1877. *Cynoglossus semifasciatus* Day, *Fish. India*, p. 436, p. 97, fig. 5.  
ZSI No. 2692 ; 102 mm. ; Loc. ?  
*Remarks.*—Caudal slightly damaged.

16. *Paraplagusia bilineatus* (Bloch)

1784. *Pleuronectus bilineatus* Bloch, *Naturges. ausland. Fische*, 3, p. 29.  
 1877. *Plagusia marmorata* Day, *Fish. India*, p. 431, pl. 95, fig. 1.

ZSI No. 2359 ; 200 mm. ; Madras.

*Remarks.*—Caudal mutilated.

## Family 3. SOLEIDAE

17. *Aesopia cornuta* Kaup

1858. *Aesopia cornuta* Kaup, *Arch. Naturg.*, p. 98.  
 1877. *Synaptura cornuta* Day, *Fish. India*, p. 430, pl. 94, fig. 4.

ZSI No. 798 ; 103 mm. ; Madras.

18. *Brachirus albomaculatus* (Kaup)

1858. *Synaptura albomaculata* Kaup, *Arch. Naturg.*, p. 96.  
 1877. *Synaptura albomaculata* : Day, *Fish. India*, p. 429, pl. 93, fig. 5.

ZSI No. 1149 ; 165 mm. ; Madras.

19. *Brachirus commersoni* (Swainson)

1839. *Brachirus commersoni* Swainson, *Nat. Hist. Fish*, 11, p. 303.  
 1877. *Synaptura commersoniana* Day, *Fish. India*, p. 428, pl. 94, fig. 1.

ZSI No. 1150 ; 280 mm. ; South Canara (Mysore State).

*Remarks.*—Caudal damaged.

20. *Brachirus orientalis* (Bloch & Schneider)

1801. *Pleuronectes orientalis* Bloch & Schneider, *Syst. Ichth.*, p. 157.  
 1877. *Synaptura orientalis* : Day, *Fish. India*, p. 429, pl. 93, fig. 4 & pl. 94, fig. 2

ZSI No. 1155 ; 132 mm. ; Canara (Mysore State).

ZSI No. 796 ; 109 mm. ; Madras.

21. *Brachirus pan* (Hamilton)

1822. *Pleuronectes pan* Hamilton, *Fish. Ganges*, pp. 130, 373, pl. 24, fig. 42.  
 1877. *Synaptura pan* : Day, *Fish. India*, p. 429, pl. 93, fig. 3.

ZSI No. 1496 ; 83 mm. ; Calcutta.

22. *Microbuglossus ovatus* (Richardson)

1846. *Solea ovata* Richardson, *Ichth. China Japan*, p. 279.  
 1877. *Solea ovata* : Day, *Fish. India*, p. 426, pl. 93, fig. 1.

ZSI No. 1091 ; 88 mm. ; Madras.

23. *Zebrias quagga* (Kaup)

1858. *Aesopia quagga* Kaup, *Arch. Naturg.*, p. 98.  
 1877. *Synaptura zebra* Day, *Fish. India*, p. 430, pl. 94, fig. 3.

ZSI No. 797 ; 119 mm. ; Madras.

Family 4. PSETTODIDAE

24. *Psettodes erumei* (Bloch & Schneider)

1801. *Pleuronectes erumei* Bloch & Schneider, *Syst. Ichth.*, p. 150.

1877. *Psettodes erumei* Day, *Fish. India*, p. 422, pl. 91, fig. 4.

ZSI No. 1188 ; 164 mm. ; Andamans.

Order 2. TETRAODONTIFORMES

Family 1. ALUTERIDAE

25. *Alutera monoceros* (Osbeck)

1757. *Balistes monoceros* Osbeck, *Iter Chinensis*, p. 110.

1878. *Monocanthus monoceros* : Day, *Fish. India*, p. 693, pl. 179, fig. 2.

ZSI No. 2161 ; 340 mm. ; Andamans.

Family 2. BALISTIDAE

26. *Abalistes stellatus* (Lacépède)

1798. *Balistes stellatus* Lacépède, *Hist. nat. Poiss.*, 1, p. 350.

1878. *Balistes stellatus* : Day, *Fish. India*, p. 687, pl. 177, fig. 1.

ZSI No. 2254 ; 138 mm. ; Madras.

27. *Balistes chrysopterus* Bloch & Schneider

1801. *Balistes chrysopterus* Bloch & Schneider, *Syst. Ichth.*, p. 466.

1878. *Balistes niger* Day, *Fish. India*, p. 688, pl. 181, fig. 1.

ZSI No. 2713 ; 104 mm. ; Malay Archipelago.

28. *Canthidermis rotundatus* (Procé)

1822. *Balistes rotundatus* Procé, *Bull. Soc. Philom. Paris*, p. 130.

1878. *Balistes maculatus* Day, *Fish. India*, p. 687, pl. 175, fig. 3.

ZSI No. 2249 ; 136 mm. ; Madras.

29. *Odonus erythron* (Günther)

1870. *Balistes erythron* Günther, *Cat. Fish Brit. Mus.*, 8, p. 228.

1878. *Balistes erythron*: Day, *Fish. India*, p. 692, pl. 175, fig. 4.

ZSI No. 2250 ; 237 mm. ; Mangalore.

30. *Pseudobalistes flavimarginatus* (Rüppell)

1828. *Balistes flavimarginatus* Rüppell, *Atlas Reise N. Afrika*, p. 33.

1878. *Balistes flavimarginatus* : Day, *Fish. India*, p. 690, pl. 178, fig. 1.

ZSI No. 2251 ; 151 mm. ; Andamans.

31. *Rhinecanthus aculeatus* (Linnaeus)

1758. *Balistes aculeatus* Linnaeus, *Syst. Nat.* (ed. 10), p. 328.

1878. *Balistes aculeatus* : Day, *Fish. India*, p. 690, pl. 178, fig. 3.

ZSI No. 2253 ; 165 mm. ; Andamans.

32. *Rhinecanthus echarpe* (Lacépède)

1798. *Balistes echarpe* Lacépède, *Hist. nat. Poiss.*, 1, p. 333.  
 1878. *Balistes rectangulus* Day, *Fish. India*, p. 691, pl. 178, fig. 2.  
 ZSI No. 2252 ; 161 mm. ; Malay Archipelago.

## Family 3. DIODONTIDAE

33. *Diodon hystrix* Linnaeus

1758. *Diodon hystrix* Linnaeus, *Syst. Nat.* (ed. 10), p. 335.  
 1878. *Diodon hystrix* : Day, *Fish. India*, p. 708, pl. 179, fig. 4.  
 ZSI No. 2164 ; 223 mm. ; Andamans.

## Family 4. TETRAODONTIDAE

34. *Chonerhinus naritus* (Richardson)

1848. *Tetraodon naritus* Richardson, *Zool. Voyage Sammarang, Fisches*, p. 18.  
 1878. *Xenopterus naritus* : Day, *Fish. India*, p. 699, pl. 182, fig. 1.  
 ZSI No. 2232 ; 148 mm. ; Burma.

35. *Sphoeroides florealis* (Cope)

1871. *Tetrodon florealis* Cope, *Trans. Am. Phil. Soc.*, 14, p. 479.  
 1878. *Tetrodon hypselogention* Day, *Fish. India*, p. 702, pl. 183, fig. 5.  
 ZSI No. 2227 ; 82 mm. ; Madras.

36. *Sphoeroides lunaris* (Bloch & Schneider)

1801. *Tetrodon lunaris* Bloch & Schneider, *Syst. Ichth.*, p. 505.  
 1878. *Tetrodon lunaris* : Day (part), *Fish. India*, p. 701, pl. 182, fig. 2.  
 ZSI No. 2228 ; 163 mm. ; Madras.

37. *Tetraodon inermis* Schlegel

1850. *Tetraodon inermis* Schlegel, *Fauna Japonica, Pisces*, p. 278.  
 1878. *Tetrodon inermis* : Day, *Fish. India*, p. 701, pl. 180, fig. 1.  
 ZSI No. 2263 ; 125 mm. ; Madras.  
*Remarks.*—Specimen damaged.

38. *Tetraodon stellatus* Bloch & Schneider

1801. *Tetrodon lagocephalus* var. *stellatus* Bloch & Schneider, *Syst. Ichth.*, p. 503.  
 1878. *Tetrodon stellatus* : Day, *Fish. India*, p. 705, pl. 183, fig. 3.  
 ZSI No. 2225 ; 182 mm. ; Madras.

## Family 5. TRIACANTHIDAE

39. *Pseudotriacanthus strigilifer* (Cantor)

1850. *Triacanthus strigilifer* Cantor, *J. Asiat. Soc., Beng.*, 18 (2), p. 1345.  
 1878. *Triacanthus strigilifer* : Day, *Fish. India*, p. 685, pl. 175, fig. 2.  
 ZSI No. 2247 ; 150 mm. ; Madras.

40. **Triacanthus brevirostris** Schlegel

1850. *Triacanthus brevirostris* Schlegel, *Fauna Japonica, Pisces*, pl. 6, p. 294.  
1878. *Triacanthus brevirostris* : Day, *Fish. India*, p. 685, pl. 175, fig. 1.

ZSI No. 2248 ; 139 mm. ; Madras.

Family 6. OSTRACIONTIDAE

41. **Ostracion meleagris** Shaw

1796. *Ostracion meleagris* Shaw, *Nat. Miscell.*, 7, pl. 253.  
1878. *Ostracion punctatus* Day, *Fish. India*, p. 696, pl. 181, fig. 2.

ZSI No. 2497 ; 80 mm. ; Malay Archipelago.

42. **Ostracion tuberculatus** Linnaeus

1758. *Ostracion tuberculatus* Linnaeus, *Mus. Adolphi. Friederici*, p. 59.  
1878. *Ostracion cubicus* Day, *Fish. India*, p. 696, pl. 181, fig. 3.

ZSI No. 2166 ; 123 mm. ; Loc. ?

*Remarks.*—Caudal slightly damaged.

Order 3. LOPHIIFORMES

Family 1. ANTENNARIIDAE

43. **Antennarius hispidus** (Bloch & Schneider)

1801. *Lophius hispidus* Bloch & Schneider, *Syst. Ichth.*, p. 142.  
1876. *Antennarius hispidus* : Day, *Fish. India*, p. 271, pl. 60, fig. 2.

ZSI No. 1812 ; 70 mm. ; Madras.

44. **Antennarius nummifer** (Cuvier)

1817. *Chironectes nummifer* Cuvier, *Mem. Mus. Hist. nat.*, 3, p. 430.  
1876. *Antennarius nummifer* : Day, *Fish. India*, p. 272, pl. 59, fig. 2.

ZSI No. 2078 ; 74 mm. ; Madras.

Order 4. BATRACHOIDIFORMES

Family 1. BATRACHOIDIDAE

45. **Austrobatrachus dussumieri** (Valenciennes)

1846. *Batrachus dussumieri* Valenciennes, *Hist. nat. Poiss.*, 12, p. 474.  
1876. *Batrachus grunniens* Day, *Fish. India*, p. 269, pl. 59, fig. 1.

ZSI No. 1804 ; 151 mm. ; Madras.

*Remarks.*—Caudal damaged.

46. **Batrichthys grunniens** (Linnaeus)

1758. *Cottus grunniens* Linnaeus, *Syst. Nat.*, p. 1209.  
1876. *Batrachus gangene* Day, *Fish. India*, p. 270, pl. 60, fig. 1.

ZSI No. 2099 ; 154 mm. ; Calcutta.

## Order 5. BELONIFORMES

## Family 1. BELONIDAE

47. *Tylosurus crocodilus* (Le Sueur)

1821. *Belone crocodilus* Le Sueur, *J. Acad. nat. Sci. Philad.*, 2, p. 129.  
 1877. *Belone choram* Day, *Fish. India*, p. 510, pl. 118, fig. 4.

ZSI No. 1215 ; 330 mm. ; Andamans.

*Remarks.*—Jaws and caudal damaged.

48. *Xenentodon cancila* (Hamilton)

1822. *Esox cancila* Hamilton, *Fish. Ganges*, pp. 213, 380.  
 1877. *Belone cancila* : Day, *Fish. India*, p. 511, pl. 118, fig. 5.

ZSI No. 1295 ; 165 mm. ; Punjab.

*Remarks.*—Jaws and caudal damaged.

## Family 2. HEMIRHAMPHIDAE

49. *Hyporhamphus cantori* (Bleeker)

1866-72. *Hemirhamphus cantori* Bleeker, *Atl. Ichth.*, 6, p. 53.  
 1877. *Hemirhamphus cantori* : Day, *Fish. India*, p. 514, pl. 119, fig. 1.

ZSI No. 1300 ; 152 mm. ; Bombay.

*Remarks.*—Lower jaw and caudal damaged.

50. *Hyporhamphus gaimardi* (Valenciennes)

1846. *Hemirhamphus gaimardi* Valenciennes, *Hist. nat. Poiss.*, 19, p. 36.  
 1877. *Hemirhamphus limbatus* Day, *Fish. India*, p. 516, pl. 119, fig. 3.

ZSI No. 1299 ; 135 mm. ; Bombay.

*Remarks.*—Caudal fin damaged.

51. *Hyporhamphus xanthopterus* (Valenciennes)

1864. *Hemirhamphus xanthopterus* Valenciennes, *Hist. nat. Poiss.*, 19, p. 19.  
 1877. *Hemirhamphus xanthopterus* : Day, *Fish. India*, p. 514, pl. 119, fig. 2.

ZSI No. 1296 ; 135 mm. ; Malabar.

52. *Zenarchopterus buffonis* (Valenciennes)

1846. *Hemirhamphus buffonis* Cuvier & Valenciennes, *Hist. nat. Poiss.* 19, p. 48.  
 1877. *Hemirhamphus buffonis* : Day, *Fish. India*, p. 516, pl. 119, fig. 4.

ZSI No. 1297 ; 125 mm. ; Loc. ?

*Remarks.*—Caudal slightly broken.

53. *Zenarchopterus dispar* (Valenciennes)

1846. *Hemirhamphus dispar* Valenciennes, *Hist. nat. Poiss.*, 19, p. 58.  
 1877. *Hemirhamphus dispar* : Day, *Fish. India*, p. 517, pl. 119, fig. 5.

ZSI No. 1301 ; 89 mm. ; Andamans.

*Remarks.*—Lower jaw completely and caudal fin partly damaged.



Family 3. EXOCOETIDAE

54. *Cypselurus bahiensis* (Ranzani)

1842. *Exocoetus bahiensis* Ranzani, *Novi Comm. Acad. Sci. Inst. Bonon.*, 5, p. 362, pl. 38.

1877. *Exocoetus bahiensis* : Day, *Fish. India*, p. 518, pl. 121, fig. 10.

ZSI No. 1473 ; 143 mm. ; Red Sea.

*Remarks.*—Caudal slightly damaged.

III—SUMMARY

This paper contains a catalogue of specimens figured in Day's "Fishes of India" and present in the Zoological Survey of India. 54 species of five orders are listed.

IV—ACKNOWLEDGEMENTS

The authors are grateful to Dr. A. P. Kapur, Director, for encouragement and to Dr. A. G. K. Menon, Superintending Zoologist, Zoological Survey of India, for suggesting the line of work and for his sustained help during the preparation of this paper.