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Title	Fishes of Usujiri and Adjacent Waters in Southern Hokkaido, Japan
Author(s)	Amaoka, Kunio; 尼岡, 邦夫; Nakaya, Kazuhiro et al.
Citation	北海道大學水産學部研究彙報, 40(4), 254-277
Issue Date	1989-11
Doc URL	<a href="https://hdl.handle.net/2115/24038">https://hdl.handle.net/2115/24038</a>
Type	departmental bulletin paper
File Information	40(4)_P254-277.pdf



## Fishes of Usujiri and Adjacent Waters in Southern Hokkaido, Japan\*

Kunio AMAOKA\*\*, Kazuhiro NAKAYA\*\*  
and Mamoru YABE\*\*

### Abstract

Usujiri, which is located on the Pacific coast in southern Hokkaido, receives both seasonal cold and warm currents and the fishes found in this region are conspicuously diverse. The ichthyofauna of Usujiri and its adjacent waters have been surveyed for nearly twenty years by the methods of gill net, set net, long-line, hook and line, larva net and so on. Three hundred and twenty species were collected over this long term investigation, and a list of these species is given.

Usujiri (41°54'N, 140°57'E) is located on the western coast of Oshima Peninsula, near Funka Bay (Volcano Bay), Hokkaido, and is greatly affected by the cold Oyashio Current. However, this area also receives the warm Tsugaru Current, a branch of the Tsushima Current from the south in summer and fall. Hence, the ichthyofauna of Usujiri and adjacent region is one of the richest in the Hokkaido area, and it is interesting to investigate the fishes occurring in these areas.

Ichthyofaunal works in Hokkaido are made at some places, such as Akkeshi (Sato, 1937, 1940), Volcano Bay (Hikita, 1950, 1951a, 1951b; Sato and Kobayashi, 1956), Oshoro Bay (Kobayashi, 1962), Shirikishinai (Kobayashi and Ikeda, 1962) etc. Later, Ueno (1971) summarized the ichthyofauna in the Hokkaido region. Since the establishment of the Usujiri Fisheries Laboratory of the Faculty of Fisheries, Hokkaido University in 1970, we have conducted continuous collections of the fishes in the Usujiri region and thus far over 300 species have been recorded, including many warm water species.

The purpose of this paper is to report the ichthyofauna of Usujiri and its adjacent waters.

### Materials and methods

The present survey was conducted mainly at Usujiri, but the survey area covered includes the eastern waters off Oshima Peninsula, from the Funka Bay to Cape Esan (Fig. 1).

The scientific name, Japanese name, degree of occurrence, specimen number, specimen size and collecting methods are given.

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\* Contribution No. 60 from the Usujiri Fisheries Laboratory, Faculty of Fisheries, Hokkaido University

\*\* *Laboratory of Marine Zoology, Faculty of Fisheries, Hokkaido University*  
(北海道大学水産学部水産動物学講座)

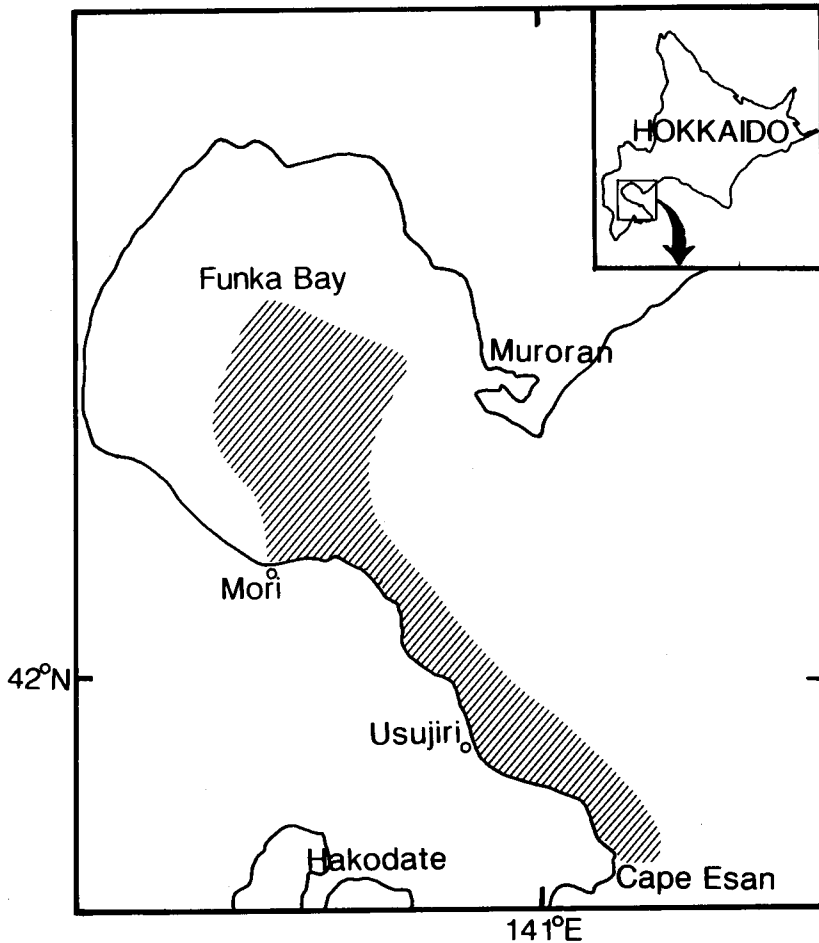


Fig. 1. The area surveyed in the present research.

In degree of occurrence, "CC" means a very common species which can always be found in the area, "C" a species which can usually be found in the area, "R" a rare species which can sometimes be found and "RR" is a very rare species which was recorded once or twice throughout this survey.

HUMZ is the catalogue number of the fish specimens in the Faculty of Fisheries, Hokkaido University. HUMZ-L and MZL are those of larval fish specimens of the same faculty. UF is the number of Usujiri Fisheries Laboratory and F is that of Fisheries Museum, Faculty of Fisheries, Hokkaido University. Specimens were collected by various methods, such as set nets, gill nets, dip nets, beach seines, angling, fish larva net and light luring.

Arrangements of the species mainly follow Nelson (1984). Scientific names follow Masuda et al. (1984).

Class Chondrichthyes  
Subclass Holocephali  
Order Chimaeriformes

Family Chimaeridae

1. *Hydrolagus barbouri* (Garman): Kokonohoshi-ginzame : R  
HUMZ 105411 (TL 883.1 mm), Set net

Subclass Elasmobranchii

Order Hexanchiformes

Family Hexanchidae

2. *Heptranchias perlo* (Bonnaterre): Edoaburazame : RR  
HUMZ 90377 (TL 716.4 mm), Gill net

Order Lamniformes

Family Lamnidae

3. *Cetorhinus maximus* (Gunnerus): Ubazame : R  
Specimen not preserved, Set net.
4. *Lamna ditropis* Hubbs et Follett : Nezumizame : C  
Specimen not preserved, Set net
5. *Carcharodon carcharias* (Linnaeus) : Hohojirozame : RR  
HUMZ 104925 (TL 5200.0 mm), Set net

Family Scyliorhinidae

6. *Cephaloscyllium umbratile* Jordan et Fowler : Nanukazame : RR  
HUMZ 50000 (TL 560.0 mm), Set net
7. *Scyliorhinus torazame* (Tanaka) : Torazame : R  
HUMZ 104828 (TL 393.9 mm), Set net

Family Carcharhinidae

8. *Mustelus manazo* Bleeker : Hoshizame : C  
HUMZ 42448, 49809, 68940, 87994 (TL 410.2-806.7 mm), Set net
9. *Prionace glauca* (Linnaeus) : Yoshikirizame : R  
HUMZ 81105 (TL 438.9 mm), Set net

Family Sphyrnidae

10. *Sphyrna zygaena* (Linnaeus) : Shiro-shumokuzame : RR  
HUMZ 105420 (TL 1307.2 mm), Set net

Order Squaliformes

Family Squalidae

11. *Etmopterus lucifer* Jordan et Snyder : Fujikujira : RR  
HUMZ 86863 (TL 388.1 mm), Gill net
12. *Centroscyllium ritteri* Jordan et Fowler : Kasumizame : R  
HUMZ 55537 (TL 405.3 mm)
13. *Squalus acanthias* Linnaeus : Abura-tsunoame : C  
UF 403, HUMZ 49806-49808, 64865, 66384, 75718, 76128, 80827, 80828, 81094,  
87642, 87643, 103072, 107902 (TL 445.1-666.0 mm), Set net

14. *Somniosus pacificus* Bigelow et Schroeder : Ondenzame : R  
HUMZ 64511 (TL 1850.0 mm), Set net

Order Rajiformes

Family Torpedinidae

15. *Torpedo tokionis* (Tanaka) : Yamato-shibireei : RR  
HUMZ 62216 (TL 723.6 mm), Set net

Family Rhinobatidae

16. *Rhina ancylostoma* Bloch et Schneider : Shinonome-sakatazame : RR  
HUMZ 111755, Set net

Family Rajidae

17. *Raja kwangtungensis* Zhu : Gangiei : RR  
HUMZ 105052 (TL 400.6 mm), Set net
18. *Raja tengu* Jordan et Fowler : Tengu-kasube : R  
F 1468 (TL 410.0 mm)
19. *Raja pulchra* Liu : Megane-kasube : R  
HUMZ 110290 (TL 517.2 mm), Set net
20. *Bathyraja bergi* Dolganov : Soko-gangiei : C  
HUMZ 109515, 109516, 109751 (TL 578.2-812.1 mm), Gill net, Set net
21. *Bathyraja trachouros* (Ishiyama) : Zara-kasube : C  
HUMZ 103856 (TL 188.0 mm), Trawl
22. *Bathyraja diplotaenia* (Ishiyama) : Ribon-kasube : C  
HUMZ 105372 (TL 814.1 mm), Trawl

Family Dasyatidae

23. *Dasyatis matsubarae* Miyosi : Hoshiei : C  
HUMZ 60208, 70808, 87864, 90772, 98825, 105440 (TL 661.9-847.2 mm)
24. *Dasyatis akajei* (Müller et Henle) : Akaei : RR  
HUMZ 105439 (TL 412.9 mm), Set net

Family Myliobatididae

25. *Myliobatis tobijei* Bleeker : Tobiei : RR  
HUMZ 60209, 93845 (TL 587.0-588.9 mm), Set net

Family Mobulidae

26. *Mobula japonica* (Müller et Henle) : Itomakiei : RR  
HUMZ 76173 (TL 1451.8 mm), Set net
27. *Mobula diabolus* (Shaw) : Hime-itomakiei : RR  
HUMZ 114050 (TL 1225.0 mm), Set net

Class Osteichthyes

Order Acipenseriformes

Family Acipenseridae

28. *Huso dauricus* (Georgi) : Dauria-chouzame : RR  
HUMZ 40772 (TL 1609.0 mm), Set net

29. *Acipenser medirostris* Ayres : Chouzame : RR  
HUMZ 54427 (TL 1430.0 mm), Set net

Order Elopiformes

Family Albulidae

30. *Pterothrissus gissu* Hilgendorf : Gisu : RR  
HUMZ 103861, UF 464 (SL 283.2-408.1 mm), Trawl

Order Anguilliformes

Family Synbranchidae

31. *Synbranchus kaupi* Johnson : Irako-anago : C  
HUMZ 100282, 103685 (TL 428.6-501.4 mm), Set net, Trawl

Family Ophichthidae

32. *Ophisurus macrorhynchus* Bleeker : Dainan-umihebi : RR  
HUMZ 109530 (TL 2007.7 mm), Set net

Family Congridae

33. *Conger myriaster* (Brevoort) : Ma-anago : R  
HUMZ 42428, 60211, 72146, 72149, 76148, 80848, 103051, 110271 (TL 374.8-572.8 mm), Set net
34. *Muraenesox bagio* (Hamilton) : Suzuhamo : RR  
HUMZ 86907 (TL 1892.0 mm), Set net

Order Clupeiformes

Family Clupeidae

35. *Etrumeus teres* (DeKay) : Urume-iwashi : R  
HUMZ 68933, 76130, 80837, 100339, 101887, 101888, 105299 (SL 168.2-216.4 mm), Set net
36. *Sardinops melanostictus* (Temminck et Schlegel) : Ma-iwashi : CC  
HUMZ 75748, 90783, 96197, 97360, 97361, 101794, 101795, 104829-104831, 104859, 104874, 107891 (SL 159.8-202.4 mm), Set net
37. *Clupea pallasii* Valenciennes : Nishin : C  
HUMZ 53988, 75741, 81104, 87453, 91097, 91098, 91127, 97346, 101770, 104836, 104962, 105217, 107886, 109510 (SL 186.6-224.3 mm), Set net
38. *Ilisha elongata* (Bennett) : Hira : RR  
Specimen of Minamikayabe High School

Family Engraulididae

39. *Engraulis japonicus* (Houttuyn) : Katakuchi-iwashi : C  
HUMZ 64852, 64856, 64857, 90378, 91129-91131, 96196, 97363, 101867, 110275 (SL 126.0-157.0 mm), Set net

Order Cypriniformes

Family Cyprinidae

40. *Tribolodon hakonensis* (Günther) : Ugui : CC  
HUMZ 64582, 95330, 103095, 105397, UF 449, 450, 452 (SL 103.4-246.1 mm),

Beach seine, Gill net, Set net

Order Salmoniformes

Family Osmeridae

41. *Osmerus mordax dentex* Steindachner : Kyuuriuo : R  
HUMZ 103853 (SL 90.5 mm), Trawl
42. *Spirinchus lanceolatus* (Hikita) : Shishamo : R  
F 1478 (TL 152.0 mm)
43. *Hypomesus pretiosus japonicus* (Brevoort) : Chika : CC  
HUMZ 64585, 68898, 75728, 81066, 81100, 87872, 92341, 101796, 101800 (SL 79.1-130.2 mm), Set net, Trawl, Light luring
44. *Mallotus villosus* (Müller) : Karafuto-shishamo : RR  
HUMZ 101886 (SL 155.5 mm), Set net

Family Plecoglossidae

45. *Plecoglossus altivelis* Temminck et Schlegel : Ayu : R  
HUMZ 105395 (174.4 mm), Set net

Family Salangidae

46. *Salangichthys microdon* Bleeker : Shirauo : C  
HUMZ 75725, 80880-80882, 86870, 87183, 87351, 92342, 101799, 109511 (SL 56.1-73.6 mm), Larva net, Light luring

Family Salmonidae

47. *Salvelinus leucomaenis* (Pallas) : Amemasu : C  
HUMZ 87446 (SL 217.6 mm), Angling
48. *Oncorhynchus masou masou* Brevoort : Sakuramasu : C  
HUMZ 50213, 87452, 92324, 103126, 107888 (SL 151.2-187.6 mm), Set net
49. *Oncorhynchus gorbuscha* (Walbaum) : Karafutomasu : R  
HUMZ 75722, 80835 (SL 206.8-281.3 mm), Set net
50. *Oncorhynchus keta* (Walbaum) : Sake : C  
HUMZ 64854, 93979, 93985, 97424, 97428, 109242, 109247, 109249 (SL 81.1-590.7 mm), Set net

Order Aulopiformes

Family Paralepididae

51. *Paralepis atlantica atlantica* Krøyer : Kusabi-urokoeso : RR  
HUMZ 101792 (SL 412.2 mm), Set net
52. *Lestidiops pacificum* (Parr) : RR  
HUMZ 98824 (SL 169.8 mm), Set net

Family Alepisauridae

53. *Alepisaurus ferox* Lowe : Mizuuo : R  
HUMZ 49981 (SL 874.5 mm), Set net

Order Myctophiformes

Family Myctophidae

54. *Tarletonbeania taylori* Mead : Hokuyou-hadaka : R  
HUMZ 105062 (SL 71.9 mm), Set net
55. *Lampanyctus jordani* Gilbert : Mame-hadaka : R  
HUMZ 99561, 99707, 99708, 105370 (SL 116.9-131.8 mm), Trawl
56. *Diaphus theta* Eigenmann et Eigenmann : Todo-hadaka : R  
HUMZ 103870 (SL 69.3 mm), Trawl

Order Gadiformes

Family Moridae

57. *Physiculus japonicus* Hilgendorf : Chigodara : CC  
HUMZ 87191, 87854, 88026, 97697, 98829, 103111, 109243, 109746, 110277,  
110288 (SL 49.9-243.0 mm), Set net, Gill net
58. *Laemonema longipes* Schmidt : Itohikidara : R  
HUMZ 88035, 99554, 105319 (SL 397.0-458.6 mm), Trawl, Gill net

Family Gadidae

59. *Gadus macrocephalus* Tilesius : Madara : C  
HUMZ 64841, 75714, 80849, 80850, 81057, 81089, 87179, 87602, 87729, 90833,  
91086, 92293, 98223, 98819, 107890 (SL 188.1-246.4 mm), Set net, Gill net
60. *Eleginus gracilis* (Tilesius) : Komai : R  
HUMZ 87178, 87462, 90844, 96190, 97436, 98227, 98820, 99642-99644, 104788,  
107887 (SL 114.1-252.5 mm), Set net, Gill net
61. *Theragra chalcogramma* (Pallas) : Suketoudara : CC  
HUMZ 75705, 80829, 87458, 90835, 90836, 90856-90858, 101780, 104783,  
104784, 107889, 107895 (SL 229.0-379.6 mm), Set net

Order Lophiiformes

Family Lophiidae

62. *Lophius litulon* (Jordan) : Kiankou : C  
HUMZ 45191, 45193, 49977, 65209-65212, 75742, 82041, 87194, 87460, 91135,  
92623, 110002, 109548, UF 371, 391, 399 (SL 84.5-522.2 mm), Set net

Family Antennariidae

63. *Histrio histrio* (Linnaeus) : Hanaokoze : RR  
HUMZ 93169 (SL 91.0 mm), Set net

Family Ceratiidae

64. *Ceratias holboelli* Krøyer : Biwa-ankou : RR  
HUMZ 75744 (SL 430.4 mm), Gill net
65. *Cryptopsarus couesi* Gill : Mitsukuri-enaga-chouchin-ankou : RR  
Specimen of Minamikayabe High School

Order Cyprinodontiformes

Family Exocoetidae

66. *Cypselurus hiraii* Abe : Hoso-tobiuo : RR

- HUMZ 75750, 76139, 80869 (SL 94.3-202.4 mm), Set net  
 67. *Cypselurus pinnatibarbatus japonicus* (Franz) : Hama-tobiuo : R  
 HUMZ 50216, 50398, 57521, 68903, 68941, 82487, 87989, 101882, 105230,  
 105232 (SL 65.6-277.3 mm), Set net  
 68. *Cypselurus heterurus doederleini* (Steindachner) : Tsukushi-tobiuo : RR  
 HUMZ 57014 (SL 81.8 mm), Set net

Family Hemiramphidae

69. *Hyporhamphus sajori* (Temminck et Schlegel) : Sayori : R  
 HUMZ 75730, 86563, 92800, 96228, 96239, 100371, 103841, 105690-105693 (SL  
 62.8-143.1 mm), Light luring

Family Belonidae

70. *Ablennes hians* (Valenciennes) : Hamadatsu : RR  
 HUMZ 103088, 109537 (SL 141.9-174.8 mm), Light luring

Family Scomberesocidae

71. *Cololabis saira* (Brevoort) : Sanma : C  
 HUMZ 57013, 66370, 66377, 68884, 75749, 82484, 90758, 90759, 92212, 96189,  
 96199, 96231, 97696, 101875, 105054, 109238 (SL 202.1-256.3 mm), Set net

Order Lampriformes

Family Trachipteridae

72. *Zu cristatus* (Bonelli) : Yuki-furisodeuo : RR  
 UF 522 (TL 366.8 mm)  
 73. *Trachipterus ishikawae* Jordan et Snyder : Sakegashira : RR  
 HUMZ 110289 (TL 1428.5 mm), Set net  
 74. *Trachipterus trachipterus* (Gmelin) : Tengaihata : RR  
 UF 539  
 75. *Desmodema lorum* Rosenblatt et Butler : Oki-furisodeuo : RR  
 HUMZ 110006 (TL 719.9 mm), Set net

Order Beryciformes

Family Monocentrididae

76. *Monocentris japonica* (Houttuyn) : Matsukasauo : RR  
 UF 533 (SL 110.5 mm)

Order Zeiformes

Family Grammicolepididae

77. *Xenolepidichthys dalgleishi* Gilchrist : Hishi-matoudai : RR  
 Specimen not preserved

Family Zeidae

78. *Zenopsis nebulosa* (Temminck et Schlegel) : Kagamidai : R  
 HUMZ 65199, 65200, 65202, 65203, 65205, 76152, 80804, 90380, 93844, 96241,  
 99605, 103081, 103112, 105709, 109544, 110095 (SL 145.2-244.6 mm), Set net  
 79. *Zeus faber* Linnaeus : Matoudai : RR

HUMZ 42443, 50212 (SL 285.2-348.2 mm), Set net

Order Gasterosteiformes

Family Hypoptychidae

80. *Hypoptychus dybowskii* Steindachner: Shiwa-ikanago: CC  
HUMZ 81046, 81063, 82033, 82036, 101786, 101790, 101791, 104803-104809,  
109240, 109241 (SL 58.1-79.6 mm), Light luring

Family Aulorhynchidae

81. *Aulichthys japonicus* Brevoort: Kuda-yagara: C  
HUMZ 50028, 50029, 53460, 54425, 81032, 87356, 93846, 96235, 109239 (SL  
77.2-122.4 mm), Beach seine, Larva net, Light luring

Family Gasterosteidae

82. *Gasterosteus aculeatus aculeatus* Linnaeus: Itoyo: C  
HUMZ 75721, 81042, 81064, 87350, 92318, 95325, 97486, 97692, 104755,  
104794, 104795, 104875, 109517 (SL 53.9-72.8 mm), Set net, Larva net, Light  
luring

Order Syngnathiformes

Family Fistulariidae

83. *Fistularia petimba* Lacepède: Aoyagara: R  
HUMZ 100316, 103100, 103113, 103114 (SL 399.9-542.5 mm), Set net  
84. *Fistularia commersonii* Rüppell: Akayagara: RR  
HUMZ 86869 (SL 674.2 mm)

Family Macrorhamphosidae

85. *Macrorhamphosus scolopax* (Linnaeus): Sagifue: RR  
HUMZ 50026, 62326 (SL 55.1-107.5 mm), Set net

Family Syngnathidae

86. *Syngnathus schlegeli* Kaup: Youjiuo: C  
HUMZ 66388, 87640, 95328, 100372, 103089-103092, 109543 (SL 115.2-199.1  
mm), Beach seine, Larva net, Light luring  
87. *Hippocampus takakuræ* Tanaka: Takakuratatsu  
Specimen not preserved

Order Dactylopteriformes

Family Dactylopteridae

88. *Daicocus peterseni* (Nystrom): Hoshi-semihoubou: RR  
HUMZ 110445 (SL 242.6 mm), Set net

Order Scorpaeniformes

Family Scorpaenidae

89. *Sebastes owstoni* (Jordan et Thompson): Hatsume: R  
HUMZ 87851, 87856 (SL 184.7-195.1 mm), Set net  
90. *Sebastes itinus* (Jordan et Starks): Yanagi-mebaru: C

- HUMZ 49805, 82035 (SL 247.2 mm), Angling
91. *Sebastes minor* Barsukov : Akagaya : R  
HUMZ 45178, 75712, 75734, 80853, 80854, 101837, 105294 (SL 163.2-185.5 mm), Set net, Gill net
92. *Sebastes steindachneri* Hilgendorf : Yanaginomai : C  
HUMZ 45180, 45209, 45210, 45211, 53533, 90883, UF 436 (SL 173.2-204.8 mm), Gill net
93. *Sebastes taczanowskii* (Steindachner) : Ezo-mebaru : CC  
HUMZ 42442, 49992, 53528, 75753, 80830, 82035, 88029, 88030, 90851, 95316, 101834, 105308, 109795, 110091 (SL 174.1-235.2 mm), Set net, Gill net
94. *Sebastes inermis* Cuvier : Mebaru : R  
HUMZ 21192, F 1507 (TL 192.0-194.0 mm)
95. *Sebastes thompsoni* (Jordan et Hubbs) : Usu-mebaru : R  
HUMZ 81085, 105234, 110267, UF 439, 440 (SL 88.5-192.4 mm), Gill net
96. *Sebastes schlegeli* Hilgendorf : Kurosoi : CC  
HUMZ 42440, 42441, 49988, 50204, 50208, 50209, 81047, 81096, 87203, 88076, 90787, 91136, 96188, 101178, 105030, 105699, 106414, 109244, 109744 (SL 100.8-287.9 mm), Set net
97. *Sebastes vulpes* Döderlein : Kitsune-mebaru : C  
HUMZ 45179, 45212, 81083 (SL 163.1-217.4), Gill net
98. *Sebastes pachycephalus* Temminck et Schlegel : Murasoi : R  
HUMZ 76127 (SL 103.2 mm), Angling
99. *Sebastes nivosus* Hilgendorf : Gomasoi : R  
Specimen not preserved
100. *Sebastes trivittatus* Hilgendorf : Shimasoi : CC  
HUMZ 49583, 49991, 86549, 92327, 96218, 103069, 109760 (SL 111.0-214.7 mm), Set net, Gill net, Angling
101. *Sebastes macrochir* (Günther) : Kichiji : C  
HUMZ 49804, 81095, 87466, 92300-92303, 92767, 103871, 105368, 105373, 105374 (SL 131.9-191.1 mm), Set net, Gill net, Trawl, Crab basket

Family Aploactinidae

102. *Erisphex potti* (Steindachner) : Abuokoze : RR  
HUMZ 93234 (SL 72.4 mm), Set net

Family Triglidae

103. *Chelidonichthys spinosus* (McClelland) : Houbou : RR  
HUMZ 110281, 110283 (SL 71.8-141.4 mm), Set net
104. *Lepidotrigla microptera* Günther : Kanagashira : C  
HUMZ 49984, 75729, 105055, 105056, 105710, 110280, 110282 (SL 91.6-200.1 mm), Set net

Family Platycephalidae

105. *Platycephalus indicus* (Linnaeus) : Kochi : RR  
HUMZ-L 513 (SL 12.7 mm), Light luring

Family Anoplopomatidae

106. *Anoplopoma fimbria* (Pallas): Gindara : R  
HUMZ 49811, 82486 (SL 356.2-457.8 mm), Gill net
107. *Erilepis zonifer* (Lockington): Aburabouzu : R  
HUMZ 76172, 87859, 87870, 87871, 88063, 105295, 105296, UF 462, 465 (SL 92.0-137.5 mm), Set net, Angling

Family Hexagrammidae

108. *Hexagrammos agrammus* (Temminck et Schlegel): Kujime : C  
HUMZ 97480, 97489, 97497, 98831 (SL 95.1-165.0 mm), Angling, Dip net
109. *Hexagrammos otakii* Jordan et Starks : Ainame : CC  
HUMZ 90762, 90800, 107897 (SL 58.0-248.6 mm), Gill net, Dip net
110. *Hexagrammos octogrammus* (Pallas): Suji-ainame : CC  
HUMZ 42421, 75738, 75754, 76114, 90750, 90793, 91942, 91943, 96566-96568, 97479, 104791, 104793, 104818, 107829-107831, UF 416 (SL 58.0-231.4 mm), Set net, Beach seine, Angling, Dip net
111. *Hexagrammos stelleri* Tilesius : Ezo-ainame : C  
HUMZ 82457, 86535, 86565, 91867 (SL 131.5-258.1 mm), Gill net
112. *Hexagrammos lagocephalus* (Pallas) : Usagi-ainame : C  
HUMZ 90763, 93993, 109755 (SL 220.6-341.2 mm), Set net, Angling
113. *Pleurogrammus azonus* Jordan et Metz : Hokke : CC  
HUMZ 75707, 90799, 90837, 91106, 91107, 92159, 92356, 104963, 104965, 107892, 109509, 109510, 109513, UF 359, 366, 369 (SL 124.6-267.9 mm), Set net, Gill net
114. *Pleurogrammus monopterygius* (Pallas) : Kitano-hokke : R  
HUMZ 64847, 90909, 105429, UF 435 (SL 162.9-344.4 mm), Set net

Family Cottidae

115. *Hemilepidotus gilberti* Jordan et Starks : Yokosuji-kajika : CC  
HUMZ 64842, 101787, 101789, 104824, 107899, 110285, 104674 (SL 93.7-266.4 mm), Set net, Dip net
116. *Hemilepidotus papilio* (Bean) : Kujaku-kajika : RR  
HUMZ-L 3579 (Larva), Light luring
117. *Icelus cataphractus* (Pavlenko) : Koori-kajika : CC  
HUMZ 92316, 95320, 99559, 99560, 103858, 105369, 105375-105385 (SL 105.7-179.4 mm), Trawl, Crab basket
118. *Triglops jordani* (Schmidt) : Karafuto-kajika : R  
HUMZ 93975, 97534, 99541, 101868, 104761, 104837, 105206, 105212, 105224, 106316-106318, 107892 (SL 85.0-156.2 mm), Set net, Trawl
119. *Cottus hangiongensis* Mori : Kankyō-kajika : C  
HUMZ-L 1163 (Larva), Light luring
120. *Myoxocephalus brandti* (Steindachner) : Shimofuri-kajika : R  
HUMZ 80866, 98793, 109754 (SL 220.9-223.0 mm), Set net
121. *Myoxocephalus stelleri* Tilesius : Gisu-kajika : CC  
HUMZ 76161, 80838, 80852, 91889-91899, 91919-91921, 91923-91925, 104673, 104708, 104779-104781, 104816, 104832, 104843, 104844, 107832, 107833, 109539, 109540 (SL 29.9-154.2 mm), Set net, Dip net, Angling

122. *Myoxocephalus polyacanthocephalus* (Pallas) : Toge-kajika : R  
HUMZ 86543, 87450, 105235 (SL 145.0-260.6 mm)
123. *Myoxocephalus jaok* (Cuvier) : Oku-kajika : CC  
HUMZ 86543, 87450, 105035, 109756 (SL 207.4-348.4 mm)
124. *Porocottus allisi* (Jordan et Starks) : Fusa-kajika : C  
HUMZ 103063 (SL 51.6 mm)
125. *Argyrocottus zanderi* Herzenstein : Itohiki-kajika : RR  
HUMZ 97668 (SL 61.4 mm), Light luring
126. *Cottiusculus gonez* Schmidt : Okihime-kajika : C  
HUMZ 99542, 103848 (SL 51.7-53.1 mm), Trawl
127. *Artediellus ochotensis* Gilbert et Burke : Ohootsuku-kajika : R  
HUMZ 103849 (SL 83.1 mm), Trawl
128. *Enophrys diceraus* (Pallas) : Oni-kajika : CC  
HUMZ 75746, 81059, 104838, 104839, 104845, 104978, 105399, 110094 (SL 120.7-237.0 mm), Set net, Angling
129. *Gymnocanthus herzensteini* Jordan et Starks : Tsumaguro-kajika : CC  
HUMZ 75739, 76115, 81045, 81049, 81053, 87181, 87196, 87455, 90888, 90892, 92325, 98248, 100373, 105029, 105031, 105033, UF 360, 361 (SL 107.7-271.5 mm), Set net, Gill net, Angling
130. *Gymnocanthus intermedius* (Temminck et Schlegel) : Ai-kajika : CC  
HUMZ 81051, 87985, 87986, 92326, 98466, 103131, 105703, 109248 (SL 152.4-217.5 mm), Set net
131. *Alcichthys alcicornis* (Herzenstein) : Niji-kajika : CC  
HUMZ 75710, 75719, 75740, 101782, 104753, 104756, 105201, 106314, 106315, 107901 (SL 93.8-234.8 mm), Set net, Trawl, Light luring
132. *Bero elegans* (Steindachner) : Bero : CC  
HUMZ 86867, 87463, 88077, 90775, 91138, 91140, 91871, 92295, 96208, 97429, 97431-97433, 98805, 98807, 98834, 98836, 98842, 98849, 99423, 99424, 99432, 99612-99620, 100888-100893, 101798, 101840 (SL 68.9-138.4 mm), Angling, Dip net, Light luring
133. *Pseudoblennius cottoides* (Richardson) : Asahi-anahaze : R  
UF 489 (TL 163.0 mm)

Family Hemitripterae

134. *Hemitripteris villosus* (Pallas) : Kemushi-kajika : CC  
HUMZ 75708, 81102, 87208, 87459, 87604, 87991, 90854, 90859, 91090, 91096, 101836, 104765, 105043, 107896, 109524, 109525 (SL 148.6-218.3 mm), Set net
135. *Blepsias cirrhosus* (Pallas) : Isobatengu : CC  
HUMZ 87447, 90875, 92296, 92364, 95313, 99602, 100887, 101783, 104776-104778, 107078 (SL 51.7-151.6 mm), Set net, Gill net, Dip net, Angling, Larva net, Light luring
136. *Blepsias bilobus* Cuvier : Hokake-anahaze : R  
HUMZ 75721, 76168, 86538, 87449, UF 398 (SL 108.4-215.8 mm), Set net
137. *Nautichthys pribilovius* (Jordan et Gilbert) : Okoze-kajika : R  
HUMZ-L 1211 (Larva), HUMZ 110909 (SL 19.6-27.5 mm), Light luring

Family Psychrolutidae

138. *Dasycottus setiger* Bean : Ganko : C  
HUMZ 92306-92308, 103868, 103932-103936 (SL 117.0-182.3 mm), Trawl,  
Crab basket
139. *Eurymen gyrinus* Gilbert et Burke : Yagishiri-kajika : R  
HUMZ 103845 (SL 180.8 mm), Trawl
140. *Malacocottus zonurus* Bean : Kobushi-kajika : C  
HUMZ 92309, 92314, 99557, 100283, 103869, 105371 (SL 38.0-170.7 mm),  
Trawl, Crab basket
141. *Psychrolutes paradoxus* Günther : Uranai-kajika : R  
HUMZ 103852, 103857 (SL 31.5-48.7 mm), Trawl

Family Agonidae

142. *Percis japonicus* (Pallas) : Inugochi : R  
Specimen of Minamikayabe High School
143. *Agonomalus proboscidalis* (Valenciennes) : Atsumoriuo : R  
HUMZ 75743, 101011, UF 532 (SL 138.1-150.5 mm), Set net, Angling
144. *Agonomalus jordani* Schmidt : Kumagaiuo : C  
UF 45 (SL 144.3 mm)
145. *Ocella dodecaedron* (Tilesius) : Kamutosachiuo : RR  
Specimen not preserved
146. *Ocella iburia* (Jordan et Starks) : Saburoo : R  
Specimen not preserved
147. *Ocella kasawai* (Jordan et Hubbs) : Yase-saburoo : RR  
HUMZ 68932 (SL 302.2 mm), Set net
148. *Tilesina gibbosa* Schmidt : Onishachiuo : R  
HUMZ 90849, 99539, 103843 (SL 236.7-265.8 mm), Set net, Trawl
149. *Brachyopsis rostratus* (Tilesius) : Shichiroouo : C  
HUMZ 45064, 76124, 81103, 99596, 99634, 105199, 107898 (SL 168.9-203.9  
mm), Set net, Trawl, Beach seine, Light luring
150. *Pallasina barbata* (Steindachner) : Yagiuo : C  
HUMZ 81065, 81088, 94345, 97687, 101870, 104760, 105300 (SL 113.7-145.3  
mm), Set net, Gill net, Light luring
151. *Podothecus sachi* (Jordan et Starks) : Tokubire : C  
HUMZ 76165, 93927, 93928, 93971-93973, 99537, 99538, 103850, 105196,  
105213-105215, 110274 (SL 222.2-296.4 mm), Set net, Trawl
152. *Podothecus thompsoni* Jordan et Gilbert : Yase-tokubire : C  
UF 531 (SL 158.9 mm)
153. *Sarritor leptorhynchus* (Gilbert) : Tengu-tokubire : R  
HUMZ 103859, 105244 (SL 80.3-120.3 mm), Trawl
154. *Bothragonus occidentalis* Lindberg : Sai-tokubire : RR  
HUMZ-L 1684-1692 (TL 8.4-12.9 mm), Light luring
155. *Aspidophoroides bartoni* Gilbert : Tate-tokubire : RR  
HUMZ 103886 (SL 100.0 mm), Trawl
156. *Anoplagonus occidentalis* Lindberg : Nisename-tokubire : RR  
HUMZ 103862 (SL 105.1 mm), Trawl

Family Cyclopteridae

157. *Eumicrotremus orbis* (Günther): Ibodango: RR  
HUMZ 93233 (SL 93.5 mm), Set net
158. *Eumicrotremus birulai* Popov: Konpeitou: R  
HUMZ 105304 (SL 73.1 mm), Set net
159. *Eumicrotremus pacificus* Schmidt: Fuusen-uo: RR  
HUMZ 105698 (SL 28.3 mm), Set net
160. *Aptocyclus ventricosus* (Pallas): Hoteiuo: C  
HUMZ 75711, 104758, UF 404 (SL 186.0-202.2 mm), Set net

Family Liparididae

161. *Liparis miostomus* Matsubara et Iwai: Kokuchi-kusauo: R  
HUMZ 109753 (SL 71.0 mm), Set net
162. *Liparis frenatus* (Gilbert et Burke): Kanten-bikunin: R  
HUMZ 109750 (SL 105.5 mm), Dip net
163. *Liparis agassizii* Putnam: Ezo-kusauo: C  
HUMZ 66389, 76149, 86552, 87650, 87652, 87850, 87853, 87868, 88020, 90777,  
90780, 90781, 90796-90798, 92344, 92345, 92347, 92348, 92362, 92576-92578,  
92589, 92590, 96227, 99599, 99600, 99628, 101883, 101890, 105032, 105238,  
105254, 105255, 105301-105303, 105309-105317, 105416-105419, 109518, UF  
431, 463, 464 (SL 57.3-284.8 mm), Set net, Dip net
164. *Liparis ochotensis* Schmidt: Isago-bikunin: C  
HUMZ 92315 (SL 213.0 mm), Crab basket
165. *Liparis tessellatus* (Gilbert et Burke): Bikunin: C  
HUMZ 68937, 97537, 103847 (SL 84.0-140.0 mm), Set net, Trawl
166. *Liparis tanakai* (Gilbert et Burke): Kusauo: RR  
UF 483, 487 (SL 151.0-175.1 mm)
167. *Careproctus rastinus* Gilbert et Burke: Sake-bikunin: C  
HUMZ 92304, 103855 (SL 162.3-174.8 mm), Trawl, Crab basket
168. *Careproctus colletti* Gilbert: Arasuka-bikunin: R  
F 1526 (TL 170.0 mm)
169. *Crystallias matsushimae* Jordan et Snyder: Abachan: C  
HUMZ 87879 (SL 216.6 mm), Set net

Order Perciformes

Family Percichthyidae

170. *Lateolabrax japonicus* (Cuvier): Suzuki: R  
UF 232, 233 (SL 240.8-271.0 mm)
171. *Stereolepis doederleini* Lindberg et Krasjukova: Ookuchi-ishinagi: R  
HUMZ 103120, 103121, 105711, 110273, 110286 (SL 80.5-113.6 mm), Set net
172. *Doederleinia berycoides* (Hilgendorf): Akamutsu: RR  
HUMZ 103844 (SL 287.4 mm), Gill net

Family Teraponidae

173. *Terapon jarbua* (Forsskål): Kotohiki: RR  
HUMZ-L 131 (TL 21.0-23.4 mm), Larva net

Family Priacanthidae

174. *Priacanthus macracanthus* Cuvier : Kintokidai : R  
HUMZ 93171, 93230, 103106 (SL 111.0-127.9 mm), Set net
175. *Cookeolus boops* (Schneider) : Chikame-kintoki : R  
HUMZ 76171, 80859-80861, 93170 (SL 62.0-87.7 mm), Set net

Family Sillaginidae

176. *Sillago japonica* Temminck et Schlegel : Shirogisu : RR  
MZL 3041 (SL 22.3-56.7 mm)

Family Pomatomidae

177. *Scombrops boops* (Houttuyn) : Mutsu : R  
HUMZ 90376, 103064, 103125, 104956 (SL 42.3-328.2 mm), Set net, Beach seine

Family Rachycentridae

178. *Rachycentron canadum* (Linnaeus) : Sugi : RR  
HUMZ 45156 (SL 353.6 mm), Set net

Family Echeneididae

179. *Echeneis naucrates* Linnaeus : Kobanzame : RR  
HUMZ 87866 (SL 444.6 mm), Set net
180. *Remora remora* (Linnaeus) : Nagakoban : RR  
UF 109 (SL 288.7 mm), Set net
181. *Remora brachyptera* (Lowe) : Kurokoban : R  
HUMZ 76123, 76166, 76175, 86547 (SL 137.3-207.7 mm), Set net

Family Carangidae

182. *Naucrates ductor* (Linnaeus) : Burimodoki : RR  
HUMZ 76157, 80817 (SL 174.7-187.7 mm), Set net
183. *Seriola quinqueradiata* Temminck et Schlegel : Buri : C  
HUMZ 45183, 48852, 80806, 80807, 82478, 87855, 87860, 88032, 88034, 88036, 88037, 99598, 99627, 103080, 109531 (SL 134.2-231.6 mm), Set net
184. *Seriola lalandi* Valenciennes : Hiramasa : R  
HUMZ 76136 (SL 269.4 mm), Set net
185. *Seriola dumerili* (Risso) : Kanpachi : R  
HUMZ 105422, 109546 (SL 150.6-200.0 mm), Set net
186. *Trachurus japonicus* (Temminck et Schlegel) : Maaji : R  
HUMZ 42439, 49579, 76144, 82496, 87880, 93232, 93237, 93238, 103101, 103109, 103116, 109533, 109747 (SL 84.5-257.8 mm), Set net
187. *Decapterus muroadsi* (Temminck et Schlegel) : Muroaji : R  
HUMZ 110234, 110235 (SL 136.5-153.3 mm), Set net
188. *Decapterus akaadsi* Abe : Akaaji : R  
UF 475 (SL 135.6 mm), Set net
189. *Decapterus macrosoma* Bleeker : Moro : R  
HUMZ 86545, 87862, 88208, 100344, Set net
190. *Kaiwarinus equula* (Temminck et Schlegel) : Kaiwari : RR

- HUMZ 110448 (SL 115.6 mm), Set net
191. *Uraspis helvola* (Forster) : Okiaji : RR  
Specimen of Minamikayabe High School
192. *Alectis ciliaris* (Bloch) : Itohiki-aji : RR  
Specimen of Minamikayabe High School
- Family Coryphaenidae
193. *Coryphaena hippurus* Linnaeus : Shiira : R  
HUMZ 80871, 100338, 103093 (SL 117.4-279.1 mm), Set net
- Family Bramidae
194. *Brama japonica* Hilgendorf : Shimagatsuo : R  
HUMZ 76163 (SL 389.0 mm), Set net
195. *Taractes asper* Lowe : Manzaiuo : RR  
UF 147 (SL 258.0 mm), Set net
- Family Lobotidae
196. *Lobotes surinamensis* (Bloch) : Matsudai : RR  
HUMZ 105393 (SL 320.9 mm), Set net
- Family Sparidae
197. *Pagrus major* (Temminck et Schlegel) : Madai : R  
HUMZ 105701, 110272, 110284 (SL 64.5-83.4 mm), Set net
198. *Acanthopagrus schlegeli* (Bleeker) : Kurodai : R  
HUMZ 103124 (SL 104.6 mm), Set net
- Family Mullidae
199. *Upeneus bensasi* (Temminck et Schlegel) : Himeji : RR  
HUMZ 103107 (SL 68.8 mm), Set net
- Family Kyphosidae
200. *Girella punctata* Gray : Mejina : R  
HUMZ 58486, 60420-60427 (SL 27.8-50.4 mm), Dip net
- Family Pentacerotidae
201. *Evistias acutirostris* (Temminck et Schlegel) : Tengudai : RR  
HUMZ 103082-103084 (SL 48.0-64.8 mm), Set net
- Family Oplegnathidae
202. *Oplegnathus fasciatus* (Temminck et Schlegel) : Ishidai : C  
HUMZ 110454 (SL 100.7 mm), Set net
203. *Oplegnathus punctatus* (Temminck et Schlegel) : Ishigakidai : R  
HUMZ 100340, 103110 (SL 117.5-153.5 mm), Set net
- Family Embiotocidae
204. *Ditrema temmincki* Bleeker : Umitanago : C  
HUMZ 88041, 86537, 90786 (TL 176.1-242.5 mm), Set net, Beach seine

205. *Neoditrema ransonneti* Steindachner : Okitanago : C  
UF 309 (SL 60.4 mm), Gill net

Family Mugilidae

206. *Mugil cephalus cephalus* Linnaeus : Bora : R  
HUMZ 101010 (SL 75.5 mm), Light luring  
207. *Liza haematocheila* (Temminck et Schlegel) : Menada : R  
HUMZ 96234 (SL 358.5 mm), Gill net

Family Sphyraenidae

208. *Sphyraena pinguis* Günther : Aka-kamasu : R  
HUMZ 110449 (SL 181.8 mm), Set net  
209. *Sphyraena japonica* Cuvier : Yamato-kamasu : R  
Specimen not preserved

Family Labridae

210. *Semicossyphus reticulatus* (Valenciennes) : Kobudai : RR  
HUMZ 105695 (SL 340.5 mm), Set net

Family Bathymasteridae

211. *Bathymaster leurolepis* McPhail : Madara-medamauo : RR  
HUMZ-L 3075, 3076 (SL 37.5-41.2 mm), Light luring  
212. *Bathymaster derjugini* Lindberg : Sumitsuki-medamauo : RR  
HUMZ 96205, 96206 (SL 120.1-135.5 mm), Gill net

Family Zoarcidae

213. *Neozoarces steindachneri* Jordan et Snyder : Hanaitoginpo : C  
HUMZ 101841, 107836 (SL 84.0 mm), Beach seine  
214. *Zoarchias veneficus* Jordan et Snyder : Kazunagi : CC  
HUMZ 100999, 101002, 101003, 101006 (TL 53.0-56.0 mm), Larva net  
215. *Lycodes hubbsi* Matsubara : Yokosuji-kurogenge : C  
HUMZ 99556, 101274, 101275 (TL 334.2-379.3 mm), Trawl  
216. *Zestichthys tanakai* Jordan et Hubbs : Kantengenge : C  
HUMZ 99564, 101281 (TL 312.0-510.8 mm), Trawl  
217. *Davidjordania* sp.  
HUMZ 101869 (TL 159.0 mm), Set net  
218. *Allolepis* sp.  
HUMZ 99563, 101279, 101280 (TL 207.6-212.3 mm), Trawl  
219. *Hadropareia* sp.  
HUMZ 96191, 96464 (TL 36.2-48.0 mm), Larva net

Family Stichaeidae

220. *Alectrias benjamini* Jordan et Snyder : Mushaginpo : C  
HUMZ 62325 (SL 63.8 mm), Set net  
221. *Pseudalectrias tarasovi* (Popov) : Nise-kitanotosaka : C  
HUMZ 97488, 98850, 99394-99415, 109752 (SL 43.5-121.2 mm), Dip net  
222. *Soldatovia polyactcephala* (Pallas) : Kita-fusaginpo : R

- HUMZ-L 2684 (SL 30.0 mm), Larva net
223. *Chirolophis japonicus* Herzenstein : Fusaginpo : C  
HUMZ 98746, 98794, 98815 (SL 365.0-402.0 mm), Set net
224. *Chirolophis saitone* (Jordan et Snyder) : Akiginpo : R  
HUMZ 92880 (SL 48.3 mm), Larva net
225. *Acantholumpenus mackayi* (Gilbert) : Nuimegaji : R  
HUMZ 92209 (SL 354.8 mm), Set net
226. *Anisarchus macropus* (Matsubara et Ochiai) : Medamaginpo : R  
HUMZ 99550, 99551, 99565, 99571, 99574, 99578, 99580, 99593, 99651, 99657, 99660, 99663, 99664, 99668 (SL 86.2-139.6 mm), Trawl
227. *Lumpenus sagitta* Wilimovsky : Unagigaji : C  
HUMZ 97347, 98221, 99552, 99553 (SL 174.0-260.0 mm), Set net
228. *Lumpenella longirostris* (Evermann et Goldsborough) : Nezumiginpo : C  
HUMZ 99562, 99698, 99706, 101268-101273 (SL 89.0-124.0 mm), Trawl
229. *Ascoldia variegata knipowitschi* Soldatov : Doroginpo : R  
HUMZ 98826, 99608 (SL 55.7-92.5 mm), Set net, Beach seine
230. *Opisthocentrus dybowskii* (Steindachner) : Muroran-ginpo : C  
HUMZ 103067, 109748, 103070 (SL 144.0-383.4 mm), Gill net, Beach seine
231. *Opisthocentrus ocellatus* (Tilesius) : Gaji : CC  
HUMZ 99597, 99607, 110093 (SL 118.8-126.3 mm), Set net
232. *Opisthocentrus tenuis* Bean et Bean : Hanajirogaji : C  
HUMZ 101839, 101878-101880, 109538 (SL 91.4-139.3 mm), Light luring
233. *Opisthocentrus zonope* Jordan et Snyder : Okikazunagi : C  
HUMZ 97690 (SL 88.9 mm), Light luring
234. *Ernogrammus hexagrammus* (Temminck et Schlegel) : Musujigaji : C  
HUMZ 98045, 98802, 98809, 99622-99624, 107835, 109745 (SL 102.3-118.9 mm), Dip net
235. *Stichaeus grigorjewi* Herzenstein : Nagazuka : C  
HUMZ 101772, 101842, 103851, 109547, 110450 (SL 363.4-476.4 mm), Set net
236. *Stichaeus nozawai* Jordan et Snyder : Tauegaji : C  
HUMZ 99535, 99548 (SL 302.2-316.5 mm), Trawl
237. *Stichaeus ochrialmkini* Taranetz : Kita-tauegaji : RR  
HUMZ 110911 (SL 70.4 mm), Light luring
238. *Stichaeopsis nana* Kner : Gomaginpo : C  
HUMZ 101881, 107824-107827 (SL 195.4 mm), Beach seine
239. *Gymnoclinus cristulatus* Gilbert et Burke : Kemushiginpo : RR  
HUMZ-L 2564-2568 (SL 19.4-25.1 mm), Light luring

Family Cryptacanthodidae

240. *Cryptacanthoides bergi* Lindberg : Hadaka-ookamiuo : RR  
HUMZ 105245, 105246 (SL 208.0-237.8 mm), Trawl

Family Pholididae

241. *Pholis crassispina* (Temminck et Schlegel) : Takeginpo : C  
HUMZ 101838, 109749 (SL 151.8 mm), Beach seine
242. *Pholis nebulosa* (Temminck et Schlegel) : Ginpo : C  
HUMZ 95342, 96198 (SL 129.2-158.7 mm), Light luring

243. *Rhodymenichthys dolichogaster* (Pallas) : Hakodate-ginpo : CC  
HUMZ 101773, 101774, 101777, 103062, 107834 (SL 64.7-109.0 mm), Larva  
net, Beach seine

Family Anarhichadidae

244. *Anarhichas orientalis* Pallas : Ookamiuo : RR  
HUMZ 92317, 96472 (SL 661.8-709.3 mm), Gill net

Family Zaproridae

245. *Zaprora silenus* Jordan : Bouzuginpo : R  
HUMZ 96470, 109524 (SL 317.0 mm), Set net

Family Trichodontidae

246. *Arctoscopus japonicus* (Steindachner) : Hatahata : C  
HUMZ 109757 (SL 146.0 mm), Set net

Family Uranoscopidae

247. *Gnathagnus elongatus* (Temminck et Schlegel) : Aomishima : R  
HUMZ 103117 (SL 29.8 mm), Light luring  
248. *Uranoscopus japonicus* Houttuyn : Mishimaokoze : R  
HUMZ 92621 (SL 179.6 mm), Gill net

Family Blenniidae

249. *Pictiblennius yatabei* (Jordan et Snyder) : Isoginpo : RR  
HUMZ-L 3069 (SL 13.5 mm), Dip net  
250. *Omobranchus elegans* (Steindachner) : Nabeka : RR  
HUMZ-L 130 (TL 17.6-18.9 mm), Light luring  
251. *Xiphasia setifer* Swainson : Unagiginpo : RR  
HUMZ 97716 (SL 440.0 mm), Set net  
252. *Xiphasia matsubarai* Okada et Suzuki : Hime-unagiginpo : RR  
Specimen of Minamikayabe High School

Family Icosteidae

253. *Icosteus aenigmaticus* Lockington : Irezumi-konnyakuaji : RR  
HUMZ 107667 (SL 1450.0 mm), Set net

Family Ammodytidae

254. *Ammodytes personatus* Girard : Ikanago : C  
HUMZ 109512 (SL 189.0 mm), Set net

Family Callionymidae

255. *Repomucenus beniteguri* (Jordan et Snyder) : Tobinumeri : R  
HUMZ 68895, 86550 (TL 147.7-174.3 mm), Angling  
256. *Repomucenus lunatus* (Temminck et Schlegel) : Numerigochi (Nezuppo) : R  
UF 52 (SL 137.5 mm)  
257. *Eleutherochir mirabilis* (Synder) : Bakenumeri : R  
HUMZ 54428, 54429, 80536, 80537, 88017, 91874, 103058, 103059, 103073-

103076 (SL 45.7–60.6 mm), Beach seine, Dip net

Family Gobiidae

258. *Chasmichthys dolichognathus* (Hilgendorf) : Agohaze : R  
MZL 3058 (SL 30.0 mm), Dip net
259. *Chaenogobius castaneus* (O'Shaughnessy) : Biringo : C  
Specimen not preserved
260. *Chaenogobius urotaenia* (Hilgendorf) : Ukigori : C  
HUMZ-L 2998 (SL 15.0 mm), Light luring
261. *Luciogobius guttatus* Gill : Mimizuhaze : C  
HUMZ 101873, 109758 (SL 53.8 mm), Beach seine

Family Gempylidae

262. *Ruvettus pretiosus* Cocco : Baramutsu : RR  
HUMZ 86864 (SL 321.2 mm), Gill net

Family Trichiuridae

263. *Trichiurus lepturus* Linnaeus : Tachiuo : R  
HUMZ 76164 (SL 71.6 mm), Set net

Family Scombridae

264. *Scomber japonicus* Houttuyn : Masaba : C  
HUMZ 49997, 49998, 76138, 80841, 81060, 82491, 88043, 96221, 96230, 98747,  
99595, 101876, 103085, 103686, 109544, 110090, UF 456, 457 (SL 138.4–237.0  
mm), Set net
265. *Scomber australasicus* Cuvier : Gomasaba : C  
HUMZ 88042, 92210, 92847, 92352, 96222, 109535 (SL 183.9–254.2 mm), Set  
net
266. *Scomberomorus niphonius* (Cuvier) : Sawara : R  
HUMZ 82494 (SL 522.1 mm), Set net
267. *Auxis thazard* (Lacepède) : Hirasouda : R  
HUMZ 76150, 103094 (SL 255.0–348.7 mm), Set net
268. *Auxis rochei* (Risso) : Marusouda : R  
HUMZ 68886, 82495, 87846, 99604, 103078, 109743 (SL 259.2–311.4 mm), Set  
net
269. *Katsuwonus pelamis* (Linnaeus) : Katsuo : R  
Specimen not preserved, Set net
270. *Thunnus thynnus* (Linnaeus) : Kuro-maguro : C  
Specimen not preserved, Set net

Family Centrolophidae

271. *Ichthyos lockingtoni* Jordan et Gilbert : Kuro-medai : RR  
HUMZ 87863 (SL 190.4 mm), Set net
272. *Hyperoglyphe japonica* (Döderlein) : Medai : R  
HUMZ 76174 (SL 340.0 mm), Set net
273. *Psenopsis anomala* (Temminck et Schlegel) : Ibodai : RR  
UF 176–182, 508 (SL 98.2–145.0 mm), Set net

Family Nomeidae

274. *Cubiceps squamiceps* (Lloyd) : Bouzu-konnyaku : RR  
HUMZ 109534 (SL 113.0 mm), Set net

Family Tetragonuridae

275. *Tetragonurus cuvieri* Risso : Dokuuroko-ibodai : RR  
HUMZ 103118 (SL 332.8 mm), Set net  
276. *Tetragonurus atlanticus* Lowe : Tsumari-dokuuroko-ibodai : RR  
UF 79, Set net

Family Stromateidae

277. *Pampus echinogaster* (Basilewsky) : Kourai-managatsuo : RR  
HUMZ 89809 (SL 199.3 mm), Set net

Order Pleuronectiformes

Family Paralichthyidae

278. *Paralichthys olivaceus* (Temminck et Schlegel) : Hirame : C  
HUMZ 42446, 53997, 103133, 110279 (SL 251.4-377.1 mm), Set net

Family Pleuronectidae

279. *Atheresthes evermanni* Jordan et Starks : Aburagarei : R  
HUMZ 80844, 81093, 104747, 109762 (SL 319.8-356.1 mm), Set net  
280. *Reinhardtius hippoglossoides* (Walbaum) : Karasugarei : R  
HUMZ 99536 (SL 252.9 mm), Trawl  
281. *Hippoglossus stenolepis* Schmidt : Ohyou : RR  
HUMZ 96193 (SL 196.8 mm), Angling  
282. *Hippoglossoides dubius* Schmidt : Akagarei : C  
HUMZ 86564, 93991, 105198, 105248 (SL 195.8-274.7 mm), Gill net, Trawl  
283. *Acanthopsetta nadeshnyi* Schmidt : Urokomegarei : C  
HUMZ 42423-42425, 42431, 42433, 64846, 64849, 75713, 80808-80811, 80819,  
80842, 80843, 90846, 90847, 90895, 90896, 92332, 97364 (SL 141.0-212.1 mm),  
Set net  
284. *Hippoglossoides pinetorum* (Jordan et Starks) : Souhachi : CC  
HUMZ 42432, 42434, 42437, 49769, 50221, 50235, 54003, 76146, 80800, 80822,  
80823, 80847, 81055, 82489, 87195, 87461, 87728, 90850, 91099, 92363, 95338,  
97345, 98225, 98844, 99641, 105038, 106291, 106300, 107893, 109245 (SL 172.4-  
274.8 mm), Set net  
285. *Eopsetta grigorjewi* (Herzenstein) : Mushigarei : C  
HUMZ 50201 (SL 233.5 mm), Set net  
286. *Verasper moseri* Jordan et Gilbert : Matsukawa : R  
HUMZ 45182 (SL 191.4 mm), Set net  
287. *Pleuronichthys cornutus* (Temminck et Schlegel) : Meitagarei : RR  
HUMZ 110278 (SL 139.3 mm), Set net  
288. *Pleuronectes mochigarei* (Snyder) : Asabagarei : C  
HUMZ 49999, 81056, 109761 (SL 172.4-253.2 mm), Set net, Trawl  
289. *Pleuronectes asper* Pallas : Koganegarei : RR  
HUMZ 92294 (SL 234.6 mm), Set net

290. *Pleuronectes punctatissimus* (Steindachner): Sunagarei: CC  
HUMZ 76155, 80805, 80824, 81081, 87633, 87634, 90903, 90905, 92358, 94351, 96216, 97356, 98846, 104681, 110452 (SL 106.1-207.3 mm), Set net, Angling
291. *Pleuronectes herzensteini* (Jordan et Snyder): Magarei: CC  
HUMZ 60212, 64848, 75723, 80821, 81062, 87185, 87186, 87635, 87848, 98791, 98806, 101784, 110451 (SL 130.0-235.4 mm), Set net, Angling
292. *Pleuronectes schrenki* (Schmidt): Kurogashiragarei: CC  
HUMZ 75745, 86540, 87990, 90760, 92329, 98814, 101872 (SL 167.9-246.1 mm), Set net, Angling
293. *Pleuronectes yokohamae* Günther: Makogarei: R  
HUMZ 96219 (SL 135.0 mm), Set net
294. *Platichthys stellatus* (Pallas): Numagarei: R  
HUMZ 87207, 103132, 107900 (SL 203.6-288.0 mm), Set net
295. *Kareius bicoloratus* (Basilewsky): Ishigarei: C  
HUMZ 50203, 50206, 50210, 53529, 64843, 65255, 75726, 86865, 87639, 96201, 97352, 103071, 104748, 104960 (SL 100.3-315.4 mm), Set net, Angling
296. *Clidoderma asperrimum* (Temminck et Schlegel): Samegarei: C  
HUMZ 95335, 98749, 109521, Set net
297. *Glyptocephalus stelleri* (Schmidt): Hireguro: C  
HUMZ 42447, 45423, 53995, 54002, 75704, 75716, 81061, 81097, 87636, 88018, 95310, 97355, 97365, 98845, 101835, 109522 (SL 184.8-272.3 mm), Gill net, Trawl
298. *Microstomus achne* (Jordan et Starks): Babagarei: C  
HUMZ 45438, 75747, 82482, 98745, 109523 (SL 174.3-291.5 mm), Set net

Family Cynoglossidae

299. *Paraplagusia japonica* (Temminck et Schlegel): Kuro-ushinoshita: R  
HUMZ 48851, 49591, 50211, 82493, 93981, 110446 (SL 276.3-297.9 mm), Set net
300. *Cynoglossus joyneri* Günther: Aka-shitabirame: RR  
Specimen not preserved, Set net

Order Tetraodontiformes

Family Triacanthidae

301. *Triacanthus biaculeatus* (Bloch): Gima: RR  
HUMZ 101885 (SL 204.3 mm), Set net

Family Balistidae

302. *Melichthys vidua* (Solander): Kuro-mongara: RR  
HUMZ 103842 (SL 111.9 mm), Set net

Family Monacanthidae

303. *Stephanolepis cirrifer* (Temminck et Schlegel): Kawahagi: R  
HUMZ 103108, 105688, 110092 (SL 77.9-112.2 mm), Set net
304. *Thamnaconus modestus* (Günther): Umazurahagi: CC  
HUMZ 75706, 87637, 87649, 90756, 90757, 92213, 92350, 92351, 92354, 92574, 92575, 93167, 97438, 97443, 98228, 101866, 104957, 105061, 105398, 105687,

- 109532 (SL 140.7-196.0 mm), Set net  
305. *Aluterus monoceros* (Linnaeus): Usubahagi: R  
UF 169, 170, 171 (SL 262.2-305.1 mm)  
306. *Aluterus scriptus* (Osbeck): Soushihagi: RR  
HUMZ 93236 (SL 265.3 mm), Set net

Family Ostraciidae

307. *Ostracion* sp.  
HUMZ 100341 (SL 17.8 mm), Set net

Family Tetraodontidae

308. *Takifugu xanthopterus* (Temminck et Schlegel): Shimafugu: RR  
HUMZ 93235 (SL 317.5 mm), Set net  
309. *Takifugu rubripes* (Temminck et Schlegel): Torafugu: R  
HUMZ 42445, UF 430 (SL 237.3-305.4 mm), Set net  
310. *Takifugu stictonotus* (Temminck et Schlegel): Gomafugu: R  
HUMZ 42436, 57006, 68892, 76137, 80801, 80814, 82481, 86541, 87983, 87998,  
92160, 92359, 92360, 98742, 99640, 101874, 105421, 109549 (SL 193.7-334.8  
mm), Set net  
311. *Takifugu poecilonotus* (Temminck et Schlegel): Komonfugu: R  
Specimen not preserved  
312. *Takifugu porphyreus* (Temminck et Schlegel): Mafugu: C  
HUMZ 42415-42420, 75715, 88007, 80851, 82483, 88010, 90379, 92568-92570,  
93239, 97423 (SL 129.9-292.0 mm), Set net, Beach seine  
313. *Takifugu pardalis* (Temminck et Schlegel): Higanfugu: C  
UF 234, 541 (SL 186.0-202.7 mm), Set net  
314. *Lagocephalus wheeleri* Abe, Tabeta et Kitahama: Shiro-sabafugu: R  
HUMZ 89786, 100345, 105430 (SL 110.2-192.6 mm), Set net  
315. *Lagocephalus gloveri* Abe et Tabeta: Kuro-sabafugu: RR  
HUMZ 80803, 80820, 86539, 87881, 103097, 109541 (SL 155.9-221.0 mm), Set  
net  
316. *Lagocephalus lagocephalus oceanicus* Jordan et Fowler: Kumasakafugu: RR  
HUMZ 100346 (SL 321.2 mm), Set net  
317. *Lagocephalus sceleratus* (Gmelin): Senninfugu: RR  
Specimen not preserved  
318. *Canthigaster rivulata* (Temminck et Schlegel): Kitamakura: RR  
UF 333 (SL 55.1 mm)

Family Diodontidae

319. *Diodon holocanthus* Linnaeus: Harisenbon: RR  
HUMZ 69958, 103087 (SL 64.9-82.4 mm), Set net

Family Molidae

320. *Mola mola* (Linnaeus): Manboo: C  
HUMZ 76169, 103077 (SL 275.5-282.1 mm), Set net

### Acknowledgments

The Laboratory of Marine Zoology, Faculty of Fisheries, Hokkaido University, has extensively investigated the fishes in the waters of Usujiri, and many students took part in this long-term project. Without their efforts, this extensive ichthyofaunal work could not have been carried out. We wish to express our thanks to the following former students: Tetsuro Aokiyama, Kazutoshi Arai, Masahiro Imai, Kazuya Imamura, Minoru Ishida, Masatoshi Ishiguro, Masayo Itoh, Tetsuya Iwagami, Kaoru Kido, Chimaō Nakazawa, Masashi Natsume, Takahiro Ogura, Yuzuru Uchida, Tatsushi Yasunaga, Norio Yamamoto and Hitoshi Yokoo.

We also express our thanks to Usujiri Fishermen's Cooperative and Nomura Suisan Co. Ltd in Usujiri. Most of the specimens were collected by them and kindly offered to us. Minamikayabe High School also kindly offered a chance to examine their fish specimens. Thanks also go to Dr. Hirotohi Yamamoto, Mr. Yoetsu Arashida and Mr. Kiyoshi Nomura of Usujiri Fisheries Laboratory, and the captain and the crew of R.V. Ushio Maru, Faculty of Fisheries, Hokkaido University, who have always been cooperative in collecting the fishes.

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