

Marine Fish Fauna in Hong Kong Waters

I-Hsun Ni* and Kai-Yin Kwok

Department of Biology, Hong Kong University of Science and Technology, Hong Kong SAR, China

(Accepted November 9, 1998)

I-Hsun Ni and Kai-Yin Kwok (1999) Marine fish fauna in Hong Kong Waters. *Zoological Studies* 38(2): 130-152. Rapid industrialization and large-scale infrastructural projects in Hong Kong and the Pearl River Delta in recent years have placed an extraordinarily heavy burden on coastal environments. The magnitude of the problem will increase as sewage discharge, ocean dredging/disposal, and land reclamation continue to expand in the next few years. Fundamentals of marine environmental impact assessment are based upon a good understanding of biodiversity that allow us to monitor environmental changes. However, there is no baseline data on marine fauna that allow evaluation of the damage from various large-scale infrastructural projects to aquatic environments. A comprehensive database on local fish fauna is, therefore, urgently necessary for the planning and implementation of conservation strategies in Hong Kong. This paper is the 1st systematic report on marine fish fauna in Hong Kong waters. From years of opportunistic fishing surveys and a thorough literature review, a total of 25 orders, 124 families, 390 genera, and 834 fish species in Hong Kong waters were identified. There are 97 fish species listed herein as new records to the area.

Key words: Fish, Fauna, Hong Kong, New record.

Hong Kong has been a fishing port for hundreds of years. At present, Hong Kong has more than 6.5 million people residing in an area of 1064 km² with an 800-km coastline. Hong Kong is one of the world's most vibrant success stories with a flourishing economy built on free enterprise and free trade. This economic miracle has had a great impact on marine environmental protection and fisheries resources management. It is not surprising that most of the territory's waters are heavily polluted. Until recently, 1.5 million m³ of untreated sewage and industrial waste water, equivalent to 1000 Olympic-sized swimming pools, flowed straight into its waters every day generating a stink and appearance which gave new meaning to Hong Kong as the "fragrant harbor" (Hong Kong Environmental Protection Department 1996). The magnitude of the problem has increased as ocean dredging/disposal and land reclamation continue to expand in addition to rapid industrialization in the Pearl River Delta in recent years. What will the effect of those developments be on the marine environment and how can we proceed with issues of "conservation" without knowing what

kinds of fish exist in Hong Kong waters? A comprehensive database on local fish fauna is, therefore, urgently necessary for planning and implementation of conservation strategies and fisheries management in Hong Kong.

The Hong Kong Government's policy on fisheries and biodiversity is essentially one of free enterprise, with minimal government intervention. Only recently have efforts been made to establish a marine fauna and flora inventory for Hong Kong waters (Morton and Tseng 1982, Morton 1990 1992 1997). The Hong Kong Agriculture and Fisheries Department's policy is "to facilitate sustainable production of the local fishery industry and to improve productivity". This policy for improving fishery productivity has often been sacrificed in the interests of economic development. For example, there is no research vessel available for fisheries surveys and, consequently, no baseline data for conservation of fish fauna and management of fisheries resources.

A survey of the literature reveals that only a few studies have been published that report on parts of Hong Kong's fish fauna. The earliest works were

*To whom correspondence and reprint requests should be addressed. Tel: 852-23587305. Fax: 852-23581559. E-mail: boniuh@ust.hk

done by Fowler; “A synopsis of the fishes of China, Part I-X” (1930-1962) and “Studies of Hong Kong fishes” (1930a 1931d 1938b). Subsequently, 116 fish species were included in “A list of fishes from Hong Kong” (Shen 1964). The latest one is “The marine fishes of Hong Kong Part I” (Chan 1968) which was published 30 yr ago. This deals with 9 families of 71 species of perch-like commercial fishes. Part II has not appeared in print. In addition, there have been a few unpublished fish lists about Hong Kong waters (Gaiger 1974, Chan 1984, Chan and Wong 1989) that were intended for internal use in the Hong Kong Agriculture and Fisheries Department. Also, there have been sporadic fishing surveys (Thompson and Horikoshi 1982, Thompson et al. 1982, Wong 1982, Chong 1984, Leung 1991 1994 1997a, Ni 1994a,b 1995a 1997, Lee 1997, Hong Kong Agriculture and Fishery Department 1998) and ecological studies of fish communities (Chan and Tseng 1982, Wu 1984, Richards and Wu 1985, Lam 1990c) in parts of Hong Kong waters. There were also systematic studies on flatfish (Shen 1967a,b), on new species (Chan 1965 1966a,b,c 1970, Lam 1986, Hodgkiss 1996), on halfbeaks (Collette and Su 1986), on gobies (Lam 1990a,b), on butterflyfish (Pan and Ni 1996), and on Trichiuridae (Wang et al. 1992 1993 1994, Kwok and Ni 1999) in the adjacent waters around Hong Kong. In the light of the frag-

mented, scattered, and inadequate nature of the previous reports, this study is designed to collect and compile published and unpublished baseline information for marine fish species in Hong Kong waters (Fig. 1). Information on marine fish fauna in Hong Kong waters is collected here through a thorough review of all possible available sources including survey results and verification with contributors whose lists were not officially published. This fish fauna list will serve as a 1st complete list of the biodiversity of marine fishes in Hong Kong and as baseline data for conservation and fisheries management programs for Hong Kong waters.

MATERIALS AND METHODS

Hong Kong waters, including territorial waters ($22^{\circ}37'N$, $113^{\circ}52'E$ – $22^{\circ}8.5'N$, $114^{\circ}30'E$) and adjacent waters, are located in the northern part of the South China Sea (Fig. 1).

Fishing surveys

Fishing surveys (Ni 1994a,b 1995a,b,c 1997) were conducted for various contracts on environmental impact assessments for fisheries. The fishing vessels used were a 21-m-long shrimp trawler

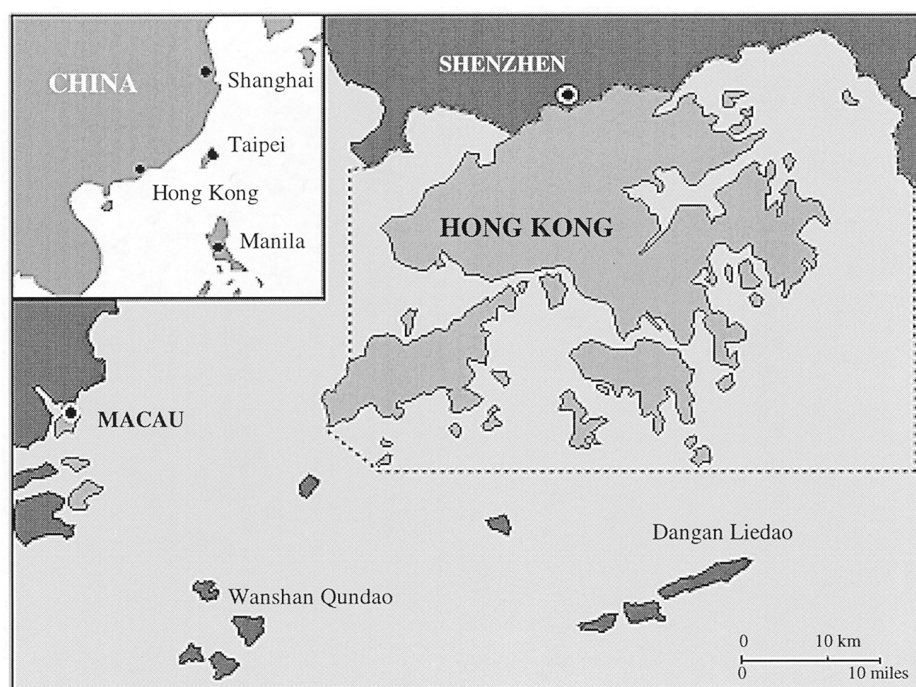


Fig. 1. Hong Kong waters, including territorial waters ($22^{\circ}37'N$, $113^{\circ}52'E$ – $22^{\circ}8.5'N$, $114^{\circ}30'E$) and adjacent waters.

outfitted with twin 2.5-m beam trawl nets (2.1 m wide by 7.6 m long with 2.54-cm mesh in the cod end) and a 18.9-m-long trawler fitted with a demersal trawl net (20 m wide by 35 m long by 3 m high) with 2.54-cm mesh in the cod end. A 10- to 15-min shrimp trawl or a 30-min otter trawl period was observed in the 7 fishing zones in Hong Kong's territorial waters. The start and end points of the fishing transects were established using GPS. Both the fishing boats and net types are commonly used in Hong Kong for commercial trawling (Hong Kong Government 1996, Hong Kong Agriculture and Fisheries Department 1996).

Conventional gill nets, 30 m long by 1 m high, with mesh sizes in the middle layer ranging from 4.5 cm to 5 cm, were also operated from sampans. The nets were fitted with floats along the upper edge and weights along the bottom edge. During commercial fishing operations, up to 50-100 such nets are joined together and set in a straight line across the direction of tidal flow. The nets sink to the ocean floor with the float line holding them in a vertical position. The study's gill nets were set by hand from sampans along a line in water 10-35 m deep. The location of the start and end points of the nets were predetermined along the coastal islands at each station as fished by otter trawl nearby. The catch of fishes from each sample set was cleaned, sorted, and frozen. All fishes were thawed and identified to species level in the laboratory. All fish caught were weighed (body weight) and measured (fork length).

Inventory of historical records

In addition to the surveys conducted by Ni (1994a,b 1995a,b,c 1997), a thorough literature review was undertaken to perfect the checklist in terms of species coverage and accuracy. The reviewed literature include published fish books (Chan 1968, Hong Kong Agriculture and Fishery Department 1968 1972), published fish lists (Fowler 1930-1962, Shen 1964), unpublished fish lists (Gaiger 1974, Chan 1984, Leung 1994), unpublished fish identification guides/diagnostic keys (Chan and Wong 1989), unpublished survey reports (Chong 1984, Leung 1994, Lee 1997, Leung et al. 1997, Hong Kong Agriculture and Fishery Department 1998), and published papers (Chan 1965 1966a,b,c 1970, Shen 1967a,b, Chan and Tseng 1982, Thompson and Horikoshi 1982, Thompson et al. 1982, Wong 1982, Wu 1984, Richards and Wu 1985, Collette and Su 1986, Lam 1986, Lam 1990a,b,c, Leung 1991 1997a,b).

The selection criteria of these papers were based on their relevancy to Hong Kong (covering

either Hong Kong's territorial waters or adjacent waters) and their accuracy. All family names were verified and reclassified (if necessary) according to Nelson (1994) and genera followed Eschmeyer (1990). The scientific names mainly follow Froese and Pauly (1997) and Eschmeyer (1998) while synonyms were clarified based on Institute of Zoology, Academia Sinica (1962), Shen et al. (1993), Froese and Pauly (1997), and Eschmeyer (1998).

Localities of the species, as determined in previous studies, were the main concern. We excluded those not found in the related region (based on other references e.g., Zhang 1955, Zhu et al. 1963, South China Sea Fisheries Institute 1979, Shen 1984a,b, Chen and Zheng 1987, Institute of Oceanology Academia Sinica 1991 1995, Huang 1994) and those whose sampling was questionable. Furthermore, 5 species, *Strongylura anastromella*, *S. leiura*, *S. strongylura*, *Tylosurus crocodilus crocodilus*, and *T. acus melanotus* (Belonidae), were added to the checklist (personal communication with Bruce Collette who has worked on the Belonidae, Hemiramphidae, and Scombridae families in this region).

Summation of fishing surveys with historical records

All study results are summarized in table 1 with the following entries:

- Class and Order names
- Family names
- Species names
- Fish species found in Hong Kong territorial waters (#) or Hong Kong adjacent waters (left blank).
- Contributors - researcher who has identified and/or published the fish species

Keys for columns "Cited in"

1. Fisheries Ecology Laboratory of the Hong Kong University of Science and Technology. Including fishing surveys of Ni 1994a,b 1995a,b,c 1997.
2. Fowler (1930-1962) A synopsis of the fishes of China, Parts I-X.
3. Fowler (1930-1938) Studies of Hong Kong fishes.
4. Shen (1964) A list of fishes from Hong Kong.
5. Shen (1967a) Studies on the flatfishes (Pleuronectiformes or Heterosomata) in the adjacent waters of Hong Kong.
6. Shen (1967b) Additions to the study on the flatfishes in the adjacent waters of Hong Kong.
7. Chan (1965) A new anacanthobatid skate of

- genus *Springeria* from the South China Sea.
8. Chan (1966a) *Oxymetopon compressus*, a new eleotrid fish from Hong Kong.
 9. Chan (1966b) Notes on opisthognathid jaw fishes from Hong Kong, with the description of a new species.
 10. Chan (1966c) *Cocotropus hongkongiensis*, a new species of the Aploactidae from Hong Kong.
 11. Chan (1968) Marine fishes of Hong Kong (Part 1).
 12. Chan (1970) A new genus and 2 new species of commercial snappers from Hong Kong.
 13. Hong Kong Agriculture and Fishery Department (1968) 32 important food fish and the fishing industry in Hong Kong. Hong Kong Agriculture and Fishery Department (1972) 50 important food fish and the fishing industry in Hong Kong.
 14. Thompson and Horikoshi (1982) Distribution of subtidal benthos collected by trawling in Tolo Harbour and Tolo Channel, Hong Kong.
 15. Thompson, Wu and Philips (1982) A trawl survey of the benthos of Tolo Harbour and Tolo Channel in 1978.
 16. Chan and Tseng (1982) A comparative study of the benthic fishes of Tolo Harbour and the north-eastern waters of Hong Kong.
 17. Wong (1982) A preliminary survey of the benthic fishes of Tolo Harbour.
 18. Gaiger (1974) A provisional list of inshore marine fishes.
 19. Chong (1984) The demersal fishery resources in Hong Kong waters.
 20. Chan (1984) Hong Kong fish list.
 21. Richards and Wu (1985) Inshore fish community structure in a subtropical estuary.
 22. Lam (1986) A new species of *Bathygobius* (Pisces: Gobiidae) from Hong Kong.
 23. Collette and Su (1986) The halfbeaks (Belontiiformes, Hemiramphidae) of the Far East and personal communication.
 24. Hodgkiss (1988) Fifty common marine food fishes of Hong Kong.
 25. Chan and Wong (1989) Identification guide to fishes of Hong Kong.
 26. Lam (1990a) Intertidal gobies (Pisces: Gobiidae) from Hong Kong.
 27. Lam (1990b) Hong Kong mudskippers (Pisces: Periophthalmidae).
 28. Lam (1990c) Benthic ichthyofauna of Tolo Harbour and the entrance to Tolo Channel, Mirs Bay.
 29. Leung (1991) Abundance and diversity of benthic fishes in Tolo Harbour and Mirs Bay, Hong Kong.
 30. Leung (1994) The fish fauna of Lobster Bay, Cape D'Aguilar, Hong Kong.
 31. Hodgkiss (1996) Species new to Hong Kong.
 32. Leung (1997a) The impacts of dredging and fishing.
 33. Leung (1997b) The epibenthic ichthyofauna of Tolo Harbour and Hong Kong's northeastern waters.
 34. Lee (1997) Night fishing survey with purse-seine at Long Harbour, Double Haven and Hoi Ha Wan (January 1995 to December 1996).
 35. Leung et al. (1997) The evaluation of an experimental artificial reef for marine habitat rehabilitation and the feasibility of using stabilized coal combustion solid residues for reef construction: final report.
 36. World Wide Fund - Mai Po Reserve publications.
 37. Hong Kong Agriculture and Fishery Department (1998). Hong Kong fishery resources survey: 1996-1997.
- Fish species as new records in Hong Kong waters (t).

RESULTS

We compiled a list of all fish species in Hong Kong waters from various surveys by Ni (1994a,b 1995a,b,c 1997). We then added all historical records and summarized them in table 1 with a total of 834 fish species that belong to 25 orders, 124 families, and 390 genera, of which 97 species of 49 families are new records. Through the literature review, numerous synonyms were spotted and rectified. Synonyms were found between papers and sometimes even appeared in the same paper (i.e., 1 species was classified as 2 different species). This probably stemmed from the fish book(s) and diagnostic key(s) used. Some fish lists/papers do not confirm the locality of the species, in these cases, species were stated as "in Hong Kong adjacent waters" only unless another paper specified the locality. Several fish species were excluded from this fauna list because they were not found in this region according to other references, and the origin of the specimens was questionable. There were 681 fish species found in HK territorial waters, with additional 153 species stated as in Hong Kong's adjacent waters (Table 1). The 10 most abundant fish families are 57 species in the Family Gobiidae, 39 in Carangidae, 34 in Serranidae, 33 in Lutjanidae, 30 in

Table 1. Marine fish fauna in Hong Kong waters

Class/Order/Family	Species	HKT	Cited in	New records
CHONDRICHTHYES				
Orectolobiformes				
Hemiscylliidae	<i>Chiloscyllium indicum</i>	#	2,3	
	<i>Chiloscyllium plagiosum</i>	#	1,2,3,16,18,19,20,37	
Rhincodontidae	<i>Rhincodon typus</i>		25	
Carcharhiniformes				
Triakidae	<i>Mustelus griseus</i>		25	
Carcharhinidae	<i>Carcharhinus amblyrhynchos</i>		18	
	<i>Carcharhinus dussumieri</i>	#	3	
	<i>Carcharhinus falciformis</i>	#	2	
	<i>Carcharhinus macloti</i>	#	1,18,19,20	
	<i>Carcharhinus sorrah</i>	#	3	
	<i>Galeocerdo cuvier</i>		25	
	<i>Rhizoprionodon acutus</i>	#	1,3,4,13,19,20,25	
	<i>Scoliodon laticaudus</i>	#	1	†
	<i>Sphyrna lewini</i>		1,25	
	<i>Sphyrna mokarran</i>		18	
	<i>Sphyrna zygaena</i>		13,25	
Rajiformes				
Narcinidae	<i>Narcine indica</i>	#	1,4,19,20	
	<i>Narcine timlei</i>	#	2,3,4	
	<i>Narke japonica</i>	#	1	†
Rhinobatidae	<i>Platyrhina sinensis</i>	#	1,3,19,20	
Rajidae	<i>Anacanthobatis melanosoma</i>	#	1,7	
	<i>Raja hollandi</i>	#	4,13,25,29,37	
	<i>Raja kenoei</i>	#	3	
	<i>Raja kwangtungensis</i>	#	25,37	
Dasyatidae	<i>Dasyatis akajei</i>	#	1,18,19,20,25,33	
	<i>Dasyatis bennetti</i>	#	1,18,19,20	
	<i>Dasyatis kuhlii</i>	#	1,18,19,20,30	
	<i>Dasyatis zugei</i>	#	1,4,18,19,20,37	
	<i>Himantura gerrardi</i>	#	1,18,19,20	
Gymnuridae	<i>Gymnura bimaculata</i>	#	1	†
	<i>Gymnura japonica</i>	#	1,3,18,19,20,37	
	<i>Gymnura poecilura</i>		18	
Myliobatidae	<i>Aetobatus flagellum</i>	#	1,18,19,20	
	<i>Aetomylaeus milvus</i>	#	1,19,20	
	<i>Aetomylaeus niehofii</i>	#	3,18	
	<i>Manta birostris</i>		25	
	<i>Rhinoptera javanica</i>	#	3	
OSTEICHTHYES				
Elopiformes				
Elopidae	<i>Elops machnata</i>	#	1	†
Albuliformes				
Albulidae	<i>Albula glossodonta</i>	#	1	†
	<i>Albula vulpes</i>	#	3	
Anguilliformes				
Anguillidae	<i>Anguilla japonica</i>	#	2,25,36	
Muraenidae	<i>Echidna nebulosa</i>	#	3	
	<i>Enchelycore schismatorhynchus</i>	#	30	
	<i>Gymnothorax boschii</i>	#	2,3	
	<i>Gymnothorax flavimarginatus</i>	#	2	
	<i>Gymnothorax melanospilus</i>	#	1,30	
	<i>Gymnothorax punctatofasciatus</i>	#	37	
	<i>Gymnothorax reevesii</i>	#	37	
	<i>Gymnothorax reticularis</i>	#	1,2,3,16,18,19,20,29,30,32,33,35,37	
	<i>Gymnothorax richardsoni</i>	#	30	
	<i>Gymnothorax undulatus</i>	#	3	
	<i>Thyrsoidea macrura</i>		18	
Synphobranchidae	<i>Dysomma anguillare</i>	#	18,32,37	

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records	
Ophichthidae	<i>Brachysomophis cirrocheilos</i>	#	1	†	
	<i>Brachysomophis crocodilinus</i>	#	37		
	<i>Cirrhimuraena chinensis</i>	#	37		
	<i>Muraenichthys macropterus</i>	#	17		
	<i>Ophichthus apicalis</i>	#	18,28		
	<i>Ophichthus cephalozona</i>	#	1,2		
	<i>Ophichthus evermanni</i>	#	3		
	<i>Ophichthus urolophus</i>	#	1	†	
	<i>Ophichthys celebicus</i>	#	36		
	<i>Pisodonophis boro</i>	#	1,19,20,30,31,33,34,35,37		
Muraenesocidae	<i>Pisodonophis cancrivorus</i>	#	1,3,18,19,20,31		
	<i>Congresox talabon</i>	#	2		
	<i>Congresox talabonoides</i>	#	1,13,15,18,19,20,24,25,35,37		
	<i>Muraenesox bagio</i>	#	1	†	
Congridae	<i>Muraenesox cinereus</i>	#	1,2,3,16,18,19,20,25,30,37		
	<i>Ariosoma anago</i>	#	3		
	<i>Rhynchoconger ectenurus</i>	#	37		
Clupeiformes	<i>Uroconger lepturus</i>	#	1,3,18,19,20,29,32,33,37		
Engraulidae	<i>Coilia grayii</i>	#	1,2,4,13,18,19,20,25,37		
	<i>Coilia mystus</i>	#	2,3		
	<i>Coilia nasus</i>	#	1,2,3,24		
	<i>Encrasicholina heteroloba</i>	#	1,19,20,33,37		
	<i>Encrasicholina punctifer</i>	#	18		
	<i>Engraulis japonicus</i>	#	4,18,34,35,37		
	<i>Setipinna taty</i>	#	1,2,3,18,19,20,32,37		
	<i>Stolephorus chinensis</i>	#	31		
	<i>Stolephorus commersonii</i>	#	1,2,3,19,20,34,35,37		
	<i>Stolephorus indicus</i>	#	1,2,3,4,18,19,20		
	<i>Stolephorus insularis</i>	#	1	†	
	<i>Thryssa chefuensis</i>	#	1,19		
	<i>Thryssa dussumieri</i>	#	1,2,3,18,19,20,32,34,35,37		
	<i>Thryssa hamiltonii</i>	#	1,18,19,20,31,32,35,37		
	<i>Thryssa kammalensis</i>	#	18,20,34,35,37		
	<i>Thryssa mystax</i>	#	2,3,18		
	<i>Thryssa setirostris</i>	#	1,18,19,20,28,34,37		
	<i>Thryssa vitirostris</i>	#	18,19,20,34,35,37		
	Pristigasteridae	<i>Ilisha elongata</i>	#	1,2,3,4,13,18,19,20,24,25,30,37	
		<i>Ilisha melastoma</i>	#	1,2,3,18,19,20,25	
<i>Opisthopterus tardoore</i>		#	2,3,4,18		
Chirocentridae	<i>Chirocentrus dorab</i>	#	1,2,3,13,18,19,20,25		
	<i>Chirocentrus nudus</i>	#	25		
Clupeidae	<i>Amblygaster clupeoides</i>	#	37		
	<i>Amblygaster sirm</i>	#	1,2		
	<i>Clupanodon thrissa</i>	#	1,2,3,4,13,18,25		
	<i>Dussumieria acuta</i>	#	2,3,25,34		
	<i>Dussumieria elopsoides</i>	#	1,4,13,18,19,20,24,25,34,37		
	<i>Etrumeus teres</i>	#	1,3,18,34,35,37		
	<i>Konosirus punctatus</i>	#	1,17,18,19,20,25,30,31,33,34,35,37		
	<i>Nematalosa come</i>	#	1	†	
	<i>Nematalosa japonica</i>	#	1,35,37		
	<i>Nematalosa nasus</i>	#	3,13,18,19,20,24,25,34,35,37		
	<i>Sardinella albella</i>	#	1,18,19,20		
	<i>Sardinella aurita</i>	#	4,13,18,20,24,34,35,37		
	<i>Sardinella brachysoma</i>	#	3,18		
	<i>Sardinella fimbriata</i>	#	1,18,19,20,34,35		
	<i>Sardinella jussieui</i>	#	1,2,3,18,19,20,25,33,34,35,37		
	<i>Sardinella lemuru</i>	#	1,2,3,19,25		
	<i>Sardinella sindensis</i>	#	1,4,34,35		
	<i>Sardinella zunasi</i>	#	18		

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
	<i>Spratelloides delicatulus</i>	#	3	
	<i>Spratelloides gracilis</i>	#	4,34,37	
	<i>Tenualosa reevesii</i>	#	2,3	
Gonorhynchiformes				
Chanidae	<i>Chanos chanos</i>	#	2,3	
Siluriformes				
Ariidae	<i>Arius maculatus</i>	#	1	†
	<i>Arius nella</i>	#	19,20	
	<i>Arius sinensis</i>	#	1,2,3,18,19,20,25,37	
	<i>Arius thalassinus</i>	#	1	†
Plotosidae	<i>Plotosus lineatus</i>	#	1,2,3,15,18,19,20,25,28,29,32,33,34,35,37	
Osmeriformes				
Osmeridae	<i>Plecoglossus altivelis altivelis</i>	#	31	
Salangidae	<i>Salanx ariakensis</i>	#	18	
	<i>Salanx chinensis</i>	#	3	
Aulopiformes				
Synodontidae	<i>Harpadon microchir</i>	#	1	†
	<i>Harpadon nehereus</i>	#	1,3,4,18,19,20,25,37	
	<i>Saurida elongata</i>	#	1,2,4,18,19,20,25,29,30,32,33,34,35,37	
	<i>Saurida tumbil</i>	#	1,2,3,18,19,20,25,29,30,32,33,34,35,37	
	<i>Saurida undosquamis</i>	#	1,2,3,4,13,16,18,19,20,24,25,29,34	
	<i>Saurida wanieso</i>	#	1,25	
	<i>Synodus jaculum</i>	#	1	†
	<i>Synodus ulae</i>	#	1	†
	<i>Synodus variegatus</i>	#	1,2,3,30	
	<i>Trachinocephalus myops</i>	#	1,2,3,4,18,19,20,25,30,33,34,35,37	
Myctophiformes				
Myctophidae	<i>Benthosema pterotum</i>	#	1	†
Ophidiiformes				
Ophidiidae	<i>Neobythites nigromaculata</i>		1	†
	<i>Neobythites sivicola</i>		1	†
	<i>Sirembo imberbis</i>	#	32	
Gadiformes				
Bregmacerotidae	<i>Bregmaceros lanceolatus</i>	#	1,4	
	<i>Bregmaceros maclellandi</i>	#	1,18,32,33,34,35,37	
Lophiiformes				
Lophiidae	<i>Lophiomus setigerus</i>		4	
Antennariidae	<i>Antennarius biocellatus</i>	#	3	
	<i>Antennarius nummifer</i>	#	32,37	
	<i>Histrio histrio</i>	#	3,34	
Ogcocephalidae	<i>Halieutaea stellata</i>	#	3	
Mugiliformes				
Mugilidae	<i>Crenimugil crenilabis</i>	#	3,17	
	<i>Liza affinis</i>	#	1,18,19,20,30,34,35,37	
	<i>Liza carinata</i>	#	18,34,37	
	<i>Liza macrolepis</i>	#	1,2,3,19,20,32,33,35	
	<i>Liza melinoptera</i>	#	3	
	<i>Liza tade</i>	#	2	
	<i>Mugil cephalus</i>	#	1,2,3,4,16,18,19,20,36,37	
	<i>Valamugil cunnesius</i>	#	1,2,3,4,24,31	
	<i>Valamugil formosae</i>	#	1	†
	<i>Valamugil seheli</i>	#	3	
Atheriniformes				
Atherinidae	<i>Atherinomorus insularum</i>		4	
	<i>Atherinomorus lacunosus</i>	#	2,3	
	<i>Hypoatherina valenciennesi</i>	#	1,2,16,17,18,20,34,35,37	
Notocheiridae	<i>Iso flosmaris</i>	#	37	
Beloniformes				
Belonidae	<i>Strongylura anastomella</i>	#	3,23	
	<i>Strongylura leiura</i>		23	

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
	<i>Strongylura strongylura</i>	#	2,3,23	
	<i>Tylosurus acus melanotus</i>		23	
Exocoetidae	<i>Tylosurus crocodilus crocodilus</i>	#	2,3,23	
Hemiramphidae	<i>Cypselurus simus</i>	#	2,3	
	<i>Hemiramphus far</i>	#	3,4,23	
	<i>Hyporhamphus dussumieri</i>	#	1,3,23	
	<i>Hyporhamphus gernaerti</i>		23	
	<i>Hyporhamphus intermedius</i>	#	3,4,23,37	
	<i>Hyporhamphus limbatus</i>	#	23	
	<i>Hyporhamphus paucirastris</i>	#	23	
	<i>Hyporhamphus quoyi</i>	#	3,23	
	<i>Rhynchorhamphus georgii</i>	#	2,3,23	
Beryciformes				
Berycidae	<i>Centroberyx lineatus</i>		1	†
Holocentridae	<i>Myripristis murdjan</i>		25	
	<i>Ostichthys japonicus</i>		1,25	
	<i>Sargocentron rubrum</i>	#	2,3,25,30,37	
Zeiformes				
Zeidae	<i>Zeus faber</i>		4	
Gasterosteiformes				
Syngnathidae	<i>Corythoichthys flavofasciatus</i>	#	1	†
	<i>Hippocampus kuda</i>	#	1,37	
	<i>Hippocampus trimaculatus</i>	#	3	
	<i>Microphis leiaspis</i>	#	1	†
	<i>Syngnathus acus</i>	#	1,14,15,18,19,20,32,33,37	
	<i>Syngnathus pelagicus</i>	#	2,28	
	<i>Syngnathus schlegeli</i>	#	1,16,17,19,20	
	<i>Trachyrhamphus serratus</i>	#	2,32	
Fistulariidae	<i>Fistularia commersonii</i>		1	†
	<i>Fistularia petimba</i>	#	1,2,3,4,18,19,20,30,37	
Scorpaeniformes				
Dactylopteridae	<i>Dactyloptena gilberti</i>	#	1,30,37	
	<i>Dactyloptena orientalis</i>	#	3	
	<i>Dactyloptena peterseni</i>	#	4,30	
Scorpaenidae	<i>Apistus carinatus</i>	#	4,19,20,32	
	<i>Erosa erosa</i>		4	
	<i>Inimicus cuvieri</i>	#	3	
	<i>Inimicus japonicus</i>	#	1,14,18,19,20,37	
	<i>Minous monodactylus</i>	#	3,32,37	
	<i>Minous pusillus</i>	#	1,29	
	<i>Minous quincarinatus</i>		1	†
	<i>Neomerinthe rotunda</i>		1	†
	<i>Paracentropogon indicus</i>	#	14,18,20,29	
	<i>Paracentropogon longispinus</i>	#	3	
	<i>Polycaulus uranoscopa</i>	#	1,3,18,19,20,32,33,37	
	<i>Pterois antennata</i>		1	†
	<i>Pterois lunulata</i>		4	
	<i>Pterois russelli</i>	#	1,18,19,20,37	
	<i>Pterois volitans</i>		4	
	<i>Scorpaena neglecta</i>	#	1,3,19,20,30	
	<i>Scorpaena onaria</i>		1	†
	<i>Scorpaena picta</i>	#	1,37	
	<i>Scorpaenodes guamensis</i>		1	†
	<i>Scorpaenopsis cirrhosa</i>	#	1,3,30,33,35,37	
	<i>Scorpaenopsis gibbosa</i>	#	3,30,35,37	
	<i>Scorpaenopsis neglecta</i>	#	1	†
	<i>Sebastiscus albofasciatus</i>	#	3	
	<i>Sebastiscus marmoratus</i>	#	1,3,13,14,15,16,17,18,19,20,25,28,29,30,32,33,34,35,37	
	<i>Sebastiscus tertius</i>	#	1	†
	<i>Synanceia horrida</i>	#	3	

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
Aploactinidae	<i>Vespacula trachinoides</i>	#	1	†
	<i>Erisphex pottii</i>	#	1	†
	<i>Paraploactis hongkongiensis</i>	#	10	
Triglidae	<i>Chelidonichthys kumu</i>	#	1,3,14,16,18,19,20,33	
	<i>Lepidotrigla alata</i>	#	1,3,4,19,20,32,33,37	
	<i>Lepidotrigla guentheri</i>	#	16,17	
	<i>Lepidotrigla japonica</i>	#	1	†
	<i>Lepidotrigla kanagashira</i>	#	19,20,29,32,33	
	<i>Lepidotrigla microptera</i>	#	3	
	<i>Lepidotrigla punctipectoralis</i>	#	1,4,19,20,28,29,32	
	<i>Peristedion nierstraszi</i>		4	
	<i>Pterygotrigla hemisticta</i>		4	
	Platycephalidae	<i>Cociella crocodila</i>	#	3,32,37
<i>Grammoplites scaber</i>		#	1,3,29,37	
<i>Inegocia japonica</i>		#	1,3,15,17,18,19,20,29,30,32,33,35,37	
<i>Onigocia macrolepis</i>		#	18	
<i>Platycephalus indicus</i>		#	1,3,4,15,17,18,19,20,25,28,29,30,32,33,34,35,36,37	
<i>Ratabulus megacephalus</i>		#	1	†
<i>Rogadius asper</i>		#	3,4,16	
<i>Sorsogona tuberculata</i>		#	35	
<i>Suggrundus longirostris</i>			1	†
Perciformes				
Centropomidae	<i>Lates calcarifier</i>	#	3,11,13,24,25	
	<i>Psammoperca waigiensis</i>	#	2,25	
Chandidae	<i>Ambassis gymnocephalus</i>	#	1,2,3,11,25,31,34,35,36,37	
	<i>Ambassis miops</i>	#	1	†
	<i>Ambassis urotaenia</i>	#	2	
Percichthyidae	<i>Lateolabrax japonicus</i>	#	1,2,3,11,18,19,20,25,36,37	
Acropomatidae	<i>Malakichthys griseus</i>	#	2	
Serranidae	<i>Anyperodon leucogrammicus</i>	#	1	†
	<i>Cephalopholis boenak</i>	#	1,2,3,11,18,25,30,35,37	
	<i>Cephalopholis sonnerati</i>		25	
	<i>Cephalopholis urodeta</i>		11,25	
	<i>Cromileptes altivelis</i>		11,25	
	<i>Diploprion bifasciatum</i>	#	1,2,3,11,25,30	
	<i>Epinephelus akaara</i>	#	1,4,11,18,19,20,24,25,30,32,35,37	
	<i>Epinephelus areolatus</i>	#	1,2,4,11,25,37	
	<i>Epinephelus awoara</i>	#	1,2,3,11,16,18,19,20,24,25,29,30,32,33,37	
	<i>Epinephelus bleekeri</i>	#	1,2,3,11,25,29,30,35	
	<i>Epinephelus bruneus</i>	#	1,2,3,11,13,18,19,20,24,25,37	
	<i>Epinephelus chlorostigma</i>	#	2,11,25,30,37	
	<i>Epinephelus cyanopodus</i>		11,25	
	<i>Epinephelus diacanthus</i>	#	1,2,3,11,18,25,37	
	<i>Epinephelus epistictus</i>		1,4,11,25	
	<i>Epinephelus fasciatomaculosus</i>	#	1,2,3,11,25,30,37	
	<i>Epinephelus fasciatus</i>	#	3,18	
	<i>Epinephelus fuscoguttatus</i>		25	
	<i>Epinephelus lanceolatus</i>		25	
	<i>Epinephelus latifasciatus</i>		4,11,25	
	<i>Epinephelus maculatus</i>		3,11,25	
	<i>Epinephelus malabaricus</i>	#	2	
	<i>Epinephelus merra</i>	#	2,3,35	
	<i>Epinephelus morrhua</i>	#	11,25,37	
	<i>Epinephelus quoyanus</i>	#	2,3,11,18,24,25	
	<i>Epinephelus rivulatus</i>		11,25	
	<i>Epinephelus septemfasciatus</i>	#	2,3,4	
	<i>Epinephelus summana</i>	#	2,3	
	<i>Epinephelus tauvina</i>	#	2,3,11,25,33,37	
	<i>Epinephelus trimaculatus</i>	#	1,2,3,11,18,25	
	<i>Plectropomus areolatus</i>	#	3	

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
	<i>Plectropomus leopardus</i>	#	2,11,18,25	
	<i>Triso dermopterus</i>	#	1,2,11,19,20,25	
	<i>Variola louti</i>		11,25	
Opistognathidae	<i>Opistognathus evermanni</i>	#	1,9,18,19,20	
Priacanthidae	<i>Cookeolus boops</i>		4,11,25	
	<i>Heteropriacanthus cruentatus</i>	#	2,3,11,25	
	<i>Priacanthus hamrur</i>		4	
	<i>Priacanthus macracanthus</i>	#	1,4,11,13,18,19,20,24,25,30,37	
	<i>Priacanthus tayenus</i>	#	1,2,3,4,11,18,19,20,25	
	<i>Pristigenys nipponia</i>		11,25	
Apogonidae	<i>Apogon aureus</i>	#	1	†
	<i>Apogon bandanensis</i>	#	17	
	<i>Apogon carinatus</i>	#	1,18,19,25,37	
	<i>Apogon doederleini</i>	#	2,3,28	
	<i>Apogon ellioti</i>	#	1,2,3,18,19,20,25,29,32,34,37	
	<i>Apogon endekataenia</i>	#	2	
	<i>Apogon erythrinus</i>	#	30	
	<i>Apogon fasciatus</i>	#	1,2,14,15,16,18,19,20,25,29,30,32,33,34,35,37	
	<i>Apogon fleurieu</i>	#	2,30,33,35,37	
	<i>Apogon fraenatus</i>	#	3	
	<i>Apogon kiensis</i>	#	1,2,3,17,18	
	<i>Apogon lineatus</i>	#	1,2,3,16,18,19,20,25,34,35,37	
	<i>Apogon niger</i>	#	14,15,16,33,35,37	
	<i>Apogon nigripinnis</i>	#	28	
	<i>Apogon novemfasciatus</i>	#	37	
	<i>Apogon pseudotaeniatus</i>	#	1	†
	<i>Apogon robusta</i>	#	30	
	<i>Apogon semilineatus</i>	#	1,2,3,18,19,20,25,30,37	
	<i>Apogon striatus</i>	#	1,19,20,32,33,37	
	<i>Apogon taeniatus</i>	#	2,3,16,19,20,29,30,33,35	
	<i>Apogon taeniophorus</i>	#	1	†
	<i>Apogon timorensis</i>		18	
Sillaginidae	<i>Sphaeramia orbicularis</i>	#	1,2	
	<i>Sillago japonica</i>	#	2,3,37	
	<i>Sillago maculata</i>	#	2,3,4,30,35,37	
	<i>Sillago sihama</i>	#	1,2,3,17,18,19,20,28,29,30,32,33,34,37	
Malacanthidae	<i>Branchiostegus argentatus</i>	#	2,3,32	
	<i>Branchiostegus auratus</i>		1,25	
	<i>Branchiostegus japonicus</i>	#	2,3,4,13,19,20,34	
Lactariidae	<i>Lactarius lactarius</i>	#	1,2,3,11,18,19,20,25,30,34,35,37	
Echeneidae	<i>Echeneis naucrates</i>	#	3,30	
Rachycentridae	<i>Rachycentron canadum</i>	#	1,3,4,11,25	
Coryphaenidae	<i>Coryphaena hippurus</i>	#	13,25	
Carangidae	<i>Alectis ciliaris</i>	#	1,2,3,4,11,18,25,30,34,35,37	
	<i>Alectis indicus</i>	#	1,2,3,11,19,20,25,34	
	<i>Alepes djedaba</i>	#	1,2,3,11,13,18,19,20,24,25,34,35,37	
	<i>Alepes melanoptera</i>	#	2,11,25,34,35,37	
	<i>Atropus atropus</i>	#	1,2,3,11,18,19,20,25	
	<i>Atule mate</i>	#	2,3,11,25,34,37	
	<i>Carangoides armatus</i>	#	1,11,18,19,20,25	
	<i>Carangoides caeruleopinnatus</i>	#	3	
	<i>Carangoides chrysophrys</i>		1,11,18,25	
	<i>Carangoides equula</i>	#	1,2,3,4,11,18,19,20,25	
	<i>Carangoides ferdau</i>		11,25	
	<i>Carangoides malabaricus</i>	#	1,2,3,11,18,19,20,24,25,30,37	
	<i>Carangoides praeustus</i>	#	34,35	
	<i>Caranx ignobilis</i>	#	2,3	
	<i>Caranx para</i>	#	1,25	
	<i>Caranx sexfasciatus</i>	#	2,3,11,25	
	<i>Decapterus kurroides</i>		11,25	

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
	<i>Decapterus macrosoma</i>	#	19,20,25	
	<i>Decapterus maruadsi</i>	#	1,2,3,11,18,19,20,25,30,37	
	<i>Decapterus muroadsi</i>	#	2,3	
	<i>Decapterus russelli</i>	#	1,2,4,11,13,18,19,20,24,25,37	
	<i>Gnathanodon speciosus</i>	#	3,11,25,35	
	<i>Megalaspis cordyla</i>	#	1,2,3,4,11,13,18,19,20,25,34,35,37	
	<i>Naucrates ductor</i>		11,25	
	<i>Parastromateus niger</i>	#	1,2,3,18,19,20,24,25,37	
	<i>Pseudocaranx dentex</i>		11,25	
	<i>Scomberoides commersonianus</i>		25	
	<i>Scomberoides lysan</i>	#	1,2,3,11,18,19,20,30,34,37	
	<i>Selar boops</i>	#	2	
	<i>Selar crumenophthalmus</i>	#	2,3,11,18,25	
	<i>Selaroides leptolepis</i>	#	1,2,3,11,18,19,20,25,34,35,37	
	<i>Seriola dumerili</i>	#	11,18,25,35,37	
	<i>Seriolina nigrofasciata</i>	#	1,11,18,25,34,37	
	<i>Trachinotus blochii</i>	#	2,11,24,25	
	<i>Trachinotus ovatus</i>	#	3	
	<i>Trachurus japonicus</i>	#	1,18,19,20,25,29,30,32,33,34,35,37	
	<i>Ulua mentalis</i>		11,25	
	<i>Uraspis helvola</i>	#	2,11,25	
	<i>Uraspis uraspis</i>		4	
Menidae	<i>Mene maculata</i>		11,18,25	
Leiognathidae	<i>Gazza minuta</i>	#	2,3,30,34,37	
	<i>Leiognathus berbis</i>	#	1,18,19,20,30,32,34,35,37	
	<i>Leiognathus bindus</i>	#	1,2,3,18,19,20,25,30,34,35,37	
	<i>Leiognathus brevirostris</i>	#	1,2,3,14,16,18,19,20,25,28,29,30,32,33,34,35,37	
	<i>Leiognathus daura</i>	#	2,3	
	<i>Leiognathus dussumieri</i>		18	
	<i>Leiognathus elongatus</i>	#	1,19,20,34,35,37	
	<i>Leiognathus equulus</i>	#	1,2,3,19,20	
	<i>Leiognathus leuciscus</i>	#	2	
	<i>Leiognathus lineolatus</i>	#	1,19,20	
	<i>Leiognathus nuchalis</i>	#	17	
	<i>Leiognathus rivulatus</i>	#	1,18,31,37	
	<i>Leiognathus splendens</i>	#	2,3,34	
	<i>Secutor insidiator</i>	#	1,2,3,18,19,20,34,35,37	
	<i>Secutor ruconius</i>	#	1,2,3,18,19,20,25,32,33,34,35	
Lutjanidae	<i>Aprion virescens</i>		25	
	<i>Caesio caerulea</i>	#	1,2,3	
	<i>Caesio cuning</i>	#	3,25	
	<i>Caesio lunaris</i>		1	†
	<i>Etelis carbunculus</i>		25	
	<i>Lipocheilus carnolabrum</i>	#	12,25	
	<i>Lutjanus argentimaculatus</i>	#	2,3,4,18,25,35,37	
	<i>Lutjanus bohar</i>		25	
	<i>Lutjanus bouton</i>	#	3	
	<i>Lutjanus erythropterus</i>	#	2,3,12,25,37	
	<i>Lutjanus fulviflammus</i>	#	2,3,4,24	
	<i>Lutjanus fulvus</i>	#	3,25	
	<i>Lutjanus gibbus</i>		25	
	<i>Lutjanus johnii</i>	#	1,2,3,13,18,19,20,24,25,30,37	
	<i>Lutjanus kasmira</i>	#	2,25	
	<i>Lutjanus lutjanus</i>	#	1,2,3,18,25,35,37	
	<i>Lutjanus malabaricus</i>	#	2,3,35	
	<i>Lutjanus monostigma</i>	#	2	
	<i>Lutjanus quinquelineatus</i>		4	
	<i>Lutjanus rivulatus</i>	#	3,25	
	<i>Lutjanus russellii</i>	#	1,18,19,20,25,29,30,33,35,37	
	<i>Lutjanus sanguineus</i>	#	1,13,18,19,20,24,25	

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
	<i>Lutjanus sebae</i>		18,25	
	<i>Lutjanus stellatus</i>	#	1	†
	<i>Lutjanus vitta</i>	#	1,2,3,18,30,37	
	<i>Macolor niger</i>		25	
	<i>Paracaesio xanthura</i>		25	
	<i>Pinjalo pinjalo</i>	#	2,25	
	<i>Pristipomoides filamentosus</i>		1	†
	<i>Pristipomoides typus</i>		25	
	<i>Pterocaesio tile</i>		1	†
	<i>Symphorichthys spilurus</i>	#	2,3	
	<i>Symphorus nematophorus</i>		25	
Lobotidae	<i>Lobotes surinamensis</i>	#	2,3,11,25,37	
Gerreidae	<i>Gerreomorpha decantha</i>		18	
	<i>Gerres abbreviatus</i>	#	1,37	
	<i>Gerres filamentosus</i>	#	1,2,3,4,18,19,20,25,30,32,33,34,35,37	
	<i>Gerres japonicus</i>	#	1,17,18,19,20,37	
	<i>Gerres lucidus</i>	#	1,16,32,37	
	<i>Gerres macrosoma</i>	#	1,2,3,18,19,20,29,30,32,33,34,35,37	
	<i>Gerres oblongus</i>	#	1	†
	<i>Gerres oyena</i>	#	1,34	
	<i>Gerres poieti</i>	#	31	
Haemulidae	<i>Hapalogenys mucronatus</i>	#	1,2,3,19,20,37	
	<i>Hapalogenys nigripinnis</i>	#	18,19,20,29	
	<i>Hapalogenys nitens</i>	#	1,3	
	<i>Parapristipoma trilineatum</i>	#	1,2,3,18,30,34,35,37	
	<i>Plectorhinchus chaetodonoides</i>	#	2,3	
	<i>Plectorhinchus cinctus</i>		13,18	
	<i>Plectorhinchus diagrammus</i>	#	2,3	
	<i>Plectorhinchus foetela</i>		25	
	<i>Plectorhinchus lineatus</i>		25	
	<i>Plectorhinchus orientalis</i>	#	3	
	<i>Plectorhinchus pictus</i>	#	1,2,3,4,18,19,20,25,30,35,37	
	<i>Plectorhinchus picus</i>		25	
	<i>Pomadasys argenteus</i>	#	1,2,3,13,18,19,20,24,33,37	
	<i>Pomadasys kaakan</i>	#	1,25	
	<i>Pomadasys maculatus</i>	#	2,3,4,25,30,35	
Sparidae	<i>Acanthopagrus australis</i>	#	1	†
	<i>Acanthopagrus berda</i>	#	1,2,3,13,19,20,25,34,35,36,37	
	<i>Acanthopagrus latus</i>	#	1,2,3,19,20,25,29,30,37	
	<i>Acanthopagrus schlegelii</i>	#	1,19,20,24,25,29,33,35,36,37	
	<i>Argyrops bleekeri</i>	#	1,19,20	
	<i>Argyrops spinifer</i>	#	1,2,3,19,20,25	
	<i>Evynnis cardinalis</i>	#	1,4,14,16,17,19,20,25,29,30,32,33,34,35,37	
	<i>Pagrus major</i>	#	1,2,3,4,13,14,15,16,17,19,20,24,25,28,30,32,33,34,35,37	
	<i>Rhabdosargus sarba</i>	#	1,2,3,19,20,25,30,34,35,37	
	<i>Taius tumifrons</i>	#	1,2,3,13,24,25	
Lethrinidae	<i>Gymnocranius euanus</i>		25	
	<i>Gymnocranius grandoculis</i>		25	
	<i>Gymnocranius griseus</i>	#	2,3,13,24,25	
	<i>Lethrinus erythracanthus</i>	#	2	
	<i>Lethrinus haematopterus</i>	#	1,2,3,19,20,24,25,30,37	
	<i>Lethrinus lentjan</i>	#	1,2,3	
	<i>Lethrinus miniatus</i>	#	2,3,4,25	
	<i>Lethrinus nebulosus</i>	#	1,2,3,24,25,30	
	<i>Lethrinus ornatus</i>	#	1,25	
	<i>Lethrinus reticulatus</i>	#	2,3	
	<i>Lethrinus variegatus</i>		25	
Nemipteridae	<i>Nemipterus bathybius</i>		1,24,25	
	<i>Nemipterus japonicus</i>	#	1,2,3,4,18,19,20,24,25,32,33,34,35,37	
	<i>Nemipterus marginatus</i>	#	1	†

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
	<i>Nemipterus peronii</i>	#	2	
	<i>Nemipterus virgatus</i>	#	1,2,3,13,24,25,28,35,37	
	<i>Parascolopsis inermis</i>		25	
	<i>Scolopsis bimaculatus</i>		25	
	<i>Scolopsis vosmeri</i>	#	1,2,3,16,25,30,33,35,37	
Polynemidae	<i>Eleutheronema tetradactylum</i>	#	1,2,3,18,19,20,25,30,37	
	<i>Polydactylus microstoma</i>	#	1	†
	<i>Polydactylus plebeius</i>	#	2	
	<i>Polydactylus sextarius</i>	#	1,2,3,18,19,20,25,29,30,32,33,34,37	
Sciaenidae	<i>Argyrosomus coibor</i>	#	1,19,20,25	
	<i>Argyrosomus japonicus</i>	#	2,37	
	<i>Atrobucca nibe</i>	#	1,3,19,20	
	<i>Bahaba taipingensis</i>	#	2,19,20	
	<i>Chrysochir aureus</i>	#	1,3,19,20,25	
	<i>Collichthys lucidus</i>	#	1,2,3,19,20,25,29,34,35,37	
	<i>Dendrophysa russellii</i>	#	1,19,20,29,35,37	
	<i>Johnius amblycephalus</i>	#	1	†
	<i>Johnius belangerii</i>	#	1,19,20,25,29,30,32,33,35,37	
	<i>Johnius carutta</i>	#	2,3	
	<i>Johnius distinctus</i>	#	1	†
	<i>Johnius dussumieri</i>	#	1,2,3,19,20,28,37	
	<i>Larimichthys croceus</i>	#	1,2,19,20,24,25,37	
	<i>Larimichthys polyactis</i>	#	1,17,28	
	<i>Nibea albiflora</i>	#	1,3,19,20,25,30,32,37	
	<i>Nibea semifasciata</i>	#	1,19,20	
	<i>Nibea soldado</i>	#	2	
	<i>Otolithes ruber</i>	#	1,2,19,20,30,35,37	
	<i>Pennahia anea</i>	#	1,2,3,19,20,25,29,30,32,33,34,35	
	<i>Pennahia argentata</i>	#	1,2,4,13,19,20,24,25,29,37	
	<i>Pennahia macrocephalus</i>	#	1,2,19,20,25,29,32,37	
	<i>Pennahia pawak</i>	#	1,2,19,20,25,34,35,37	
	<i>Protonibea diacanthus</i>	#	2,3,13,24,25,37	
Mullidae	<i>Mulloidichthys vanicolensis</i>	#	2,3	
	<i>Parupeneus barberinoides</i>	#	2	
	<i>Parupeneus barberinus</i>	#	1,2,3	
	<i>Parupeneus chrysopleuron</i>	#	1,4,19,20,25,37	
	<i>Parupeneus ciliatus</i>	#	1,2,3,30,35	
	<i>Parupeneus indicus</i>	#	30,35,37	
	<i>Parupeneus spilurus</i>	#	1	†
	<i>Parupeneus trifasciatus</i>	#	1,2	
	<i>Upeneus bensasi</i>	#	1,2,4,15,19,20,25,29,30,32,33,34,35,37	
	<i>Upeneus moluccensis</i>	#	1,2,13,19,20,24,25,34,35,37	
	<i>Upeneus quadrilineatus</i>	#	1	†
	<i>Upeneus subvittatus</i>	#	34	
	<i>Upeneus sulphureus</i>	#	1,2,19,20,25,34,37	
	<i>Upeneus tragula</i>	#	1,2,3,4,16,17,19,20,29,30,33,34,35,37	
	<i>Upeneus vittatus</i>	#	1,2,3,4	
Pempheridae	<i>Pempheris molucca</i>	#	34,37	
	<i>Pempheris vanicolensis</i>	#	1	†
Glaucosomatidae	<i>Glaucosoma hebraicum</i>		1,25	
Drepanidae	<i>Drepane longimana</i>	#	1,3,18	
	<i>Drepane punctata</i>	#	1,2,3,13,18,19,20,24,25,30,37	
Chaetodontidae	<i>Chaetodon auriga</i>		1	†
	<i>Chaetodon collare</i>	#	2	
	<i>Chaetodon melannotus</i>		1	†
	<i>Chaetodon modestus</i>	#	1,2,3,4,18,19,20,37	
	<i>Chaetodon octofasciatus</i>	#	2,3,30	
	<i>Chaetodon ornatissimus</i>		1	†
	<i>Chaetodon speculum</i>	#	2	
	<i>Chaetodon wiebeli</i>	#	1,2,3,30	

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
	<i>Chaetodon xanthurus</i>		1	†
	<i>Chelmon rostratus</i>		1	†
Pomacanthidae	<i>Coradion chrysozonus</i>	#	1,19,20	
	<i>Centropyge nox</i>	#	2	
	<i>Pomacanthus annularis</i>	#	1	†
Kyphosidae	<i>Girella melanichthys</i>	#	25,37	
	<i>Girella mezinga</i>	#	1	†
	<i>Girella punctata</i>	#	1,2,3	
	<i>Kyphosus lembus</i>		25	
Teraponidae	<i>Microcanthus strigatus</i>	#	1,2,3,4,30,35	
	<i>Pelates quadrilineatus</i>	#	2,3,11,18,25,30,32,34,35,37	
	<i>Pelates sexlineatus</i>	#	2,11,25,37	
	<i>Rhynchopelates oxyrhynchus</i>	#	3,11,25	
	<i>Terapon jarbua</i>	#	1,2,3,11,18,19,20,25,33,34,35,36,37	
	<i>Terapon theraps</i>	#	1,2,3,4,11,18,19,20,25,34,35,37	
Cirrhitidae	<i>Cirrhitichthys aprinus</i>	#	2	
	<i>Cirrhitichthys aureus</i>	#	2,3,37	
Cheilodactylidae	<i>Goniistius zonatus</i>	#	2,3,18,25,37	
Cepolidae	<i>Acanthocephala krusensternii</i>	#	1,2,3,4,18,19,20	
	<i>Acanthocephala limbata</i>	#	37	
Pomacentridae	<i>Abudefduf bengalensis</i>	#	2,30	
	<i>Abudefduf septemfasciatus</i>	#	2	
	<i>Abudefduf sexfasciatus</i>	#	2,3	
	<i>Abudefduf vaigiensis</i>	#	1,2,30,35,37	
	<i>Amphiprion bicinctus</i>	#	2,30,35,37	
	<i>Amphiprion percula</i>	#	2,3	
	<i>Amphiprion polymnus</i>	#	2,3	
	<i>Chromis lepidolepis</i>	#	37	
	<i>Chromis notata</i>	#	1,2,3,18,19,20,30,33,34,35,37	
	<i>Chromis xanthochira</i>	#	1	†
	<i>Neopomacentrus azysron</i>	#	1	†
	<i>Neopomacentrus bankieri</i>	#	2	
	<i>Neopomacentrus taeniurus</i>	#	30,35	
	<i>Pomacentrus philippinus</i>		1,20	
	<i>Pomacentrus violascens</i>	#	2,3	
	<i>Stegastes fasciolatus</i>	#	2	
	<i>Stegastes lividus</i>		1	†
Labridae	<i>Teixeirichthys jordani</i>	#	1,2,3,19,20	
	<i>Bodianus axillaris</i>		25	
	<i>Bodianus bilunulatus</i>		25	
	<i>Bodianus macrourus</i>		25	
	<i>Bodianus mesothorax</i>	#	2	
	<i>Bodianus oxycephalus</i>		25	
	<i>Cheilinus chlorourus</i>	#	1	†
	<i>Cheilinus undulatus</i>		25	
	<i>Choerodon azurio</i>	#	25,37	
	<i>Choerodon schoenleinii</i>	#	2,3,13,24,25	
	<i>Halichoeres dussumieri</i>	#	1	†
	<i>Halichoeres hyrtlil</i>	#	2,3	
	<i>Halichoeres nigrescens</i>	#	2,3,17,18,30,34,35	
	<i>Halichoeres poecilopterus</i>	#	2	
	<i>Halichoeres tenuispinis</i>	#	2,3,30	
	<i>Halichoeres trimaculatus</i>	#	2,3	
	<i>Hemigymnus melapterus</i>	#	2	
	<i>Oxycheilinus unifasciatus</i>		25	
	<i>Pseudolabrus japonicus</i>	#	1,2,3	
	<i>Pteragogus flagellifer</i>	#	1,2,3,37	
	<i>Stethojulis balteata</i>	#	37	
	<i>Stethojulis interrupta</i>	#	1,2,3,18,30,35,37	
	<i>Suezichthys gracilis</i>	#	1,30	

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
	<i>Thalassoma amblycephalum</i>	#	2	
	<i>Thalassoma hardwicke</i>	#	2	
	<i>Thalassoma lunare</i>	#	2,3,30	
	<i>Xyrichtys dea</i>		1,25	
	<i>Xyrichtys evides</i>		4	
	<i>Xyrichtys pavo</i>	#	2,3	
	<i>Xyrichtys pentadactylus</i>	#	2,3	
	<i>Xyrichtys verrens</i>		1,4	
Scaridae	<i>Calotomus spinidens</i>		1	†
	<i>Leptoscarus vaigiensis</i>	#	2,3	
	<i>Scarus dubius</i>	#	2,3	
	<i>Scarus ferrugineus</i>		1	†
	<i>Scarus frenatus</i>		1	†
	<i>Scarus ghobban</i>	#	13,25,35	
	<i>Scarus gibbus</i>		25	
	<i>Scarus niger</i>	#	2,25	
	<i>Scarus rivulatus</i>		1	†
	<i>Scarus rubroviolaceus</i>		1	†
	<i>Scarus sordidus</i>	#	1,2,3	
Champsodontidae	<i>Champsodon capensis</i>	#	37	
Pinguipedidae	<i>Parapercis cylindrica</i>	#	2,16	
	<i>Parapercis ommatura</i>	#	2,3,29,32	
	<i>Parapercis pulchella</i>	#	2,3,30,32	
	<i>Parapercis punctulata</i>	#	37	
	<i>Parapercis sexfasciata</i>	#	2,30	
	<i>Parapercis snyderi</i>	#	14,30,35	
Ammodytidae	<i>Bleekeria viridianguilla</i>	#	2,3	
Uranoscopidae	<i>Gnathagnus elongatus</i>		18	
	<i>Uranoscopus japonicus</i>	#	1,3,4,19,20	
	<i>Uranoscopus oligolepis</i>	#	1,4,18,19,20	
	<i>Uranoscopus tosae</i>		1	†
Blenniidae	<i>Petroscirtes breviceps</i>	#	33,35	
	<i>Petroscirtes variabilis</i>	#	1,15,20	
Callionymidae	<i>Callionymus altipinnis</i>		4	
	<i>Callionymus curvicornis</i>	#	2,3	
	<i>Callionymus hindsii</i>	#	1,2,20	
	<i>Callionymus kaianus</i>	#	16,17,28,34	
	<i>Callionymus marisinensis</i>	#	1	†
	<i>Callionymus octostigmatus</i>		4	
	<i>Calliurichthys japonicus</i>	#	2,3	
	<i>Repomucenus richardsonii</i>	#	1,4,14,15,18,19,20,29,32,33,35,37	
Eleotridae	<i>Bostrychus sinensis</i>	#	2,3	
	<i>Butis butis</i>	#	1,2,3,19,20,32,33	
	<i>Eleotris acanthopoma</i>	#	31	
	<i>Eleotris melanosoma</i>	#	2	
	<i>Prionobutis koilomatodon</i>	#	1,2,3,18,20,37	
Gobiidae	<i>Acanthogobius flavimanus</i>	#	31	
	<i>Acanthogobius hasta</i>	#	1,3,20	
	<i>Acanthogobius lactipes</i>	#	16,17	
	<i>Acentrogobius caninus</i>	#	1,2,3,16,17,20,33,37	
	<i>Acentrogobius viridipunctatus</i>	#	2,3,31	
	<i>Amblychaeturichthys hexanema</i>	#	1,14,15,16,17,18,19,20,28,29,32,33,37	
	<i>Amblyeleotris gymnocephala</i>	#	2	
	<i>Amblygobius albimaculatus</i>	#	34,37	
	<i>Amblygobius phalaena</i>	#	1	†
	<i>Amblygobius shatinensis</i>	#	2	
	<i>Amblyotrypauchen arctocephalus</i>	#	1,32	
	<i>Apocryptes bato</i>	#	2	
	<i>Apocryptodon madurensis</i>		1,20	
	<i>Aulopareia unicolor</i>	#	37	

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
	<i>Awaous ocellaris</i>	#	1	†
	<i>Bathygobius cyclopterus</i>	#	1	†
	<i>Bathygobius fuscus</i>	#	26	
	<i>Bathygobius hongkongensis</i>	#	22,26	
	<i>Boleophthalmus boddarti</i>	#	36	
	<i>Boleophthalmus pectinirostris</i>	#	2,27	
	<i>Brachyamblyopus anotus</i>	#	21	
	<i>Brachyamblyopus brachysoma</i>	#	2	
	<i>Chaeturichthys stigmatias</i>	#	1,2,3	
	<i>Cryptocentrus filifer</i>	#	1,2,3,16,19,20,28,29,30,32,33,37	
	<i>Cryptocentrus russus</i>	#	1,20	
	<i>Ctenogobius brevirostris</i>	#	32	
	<i>Ctenotrypauchen chinensis</i>	#	1,3	
	<i>Favonigobius gymnauchen</i>	#	26,37	
	<i>Glossogobius biocellatus</i>	#	2,3,37	
	<i>Glossogobius giuris</i>	#	2,3,26	
	<i>Glossogobius olivaceus</i>	#	1,26	
	<i>Hemigobius hoevenii</i>	#	2	
	<i>Istigobius campbelli</i>	#	1,2,3,20	
	<i>Istigobius ornatus</i>	#	1,3,20	
	<i>Luciogobius guttatus</i>	#	31	
	<i>Mugilogobius abei</i>	#	2,3,26,36	
	<i>Oligolepis fasciatus</i>	#	1	†
	<i>Oxyurichthys microlepis</i>	#	1,2,4,14,15,18,20,34	
	<i>Oxyurichthys ophthalmonemus</i>	#	3,16	
	<i>Oxyurichthys papuensis</i>	#	1,14,19,20,29,37	
	<i>Oxyurichthys tentacularis</i>	#	1,2,14,15,18,19,20,28,29,32,33,37	
	<i>Parachaeturichthys polynema</i>	#	1,2,3,16,17,18,19,20,28,29,32,33,37	
	<i>Periophthalmus cantonensis</i>	#	27,36	
	<i>Priolepis semidoliatus</i>	#	1	†
	<i>Pterogobius elapoides</i>	#	2	
	<i>Scartelaos histophorus</i>	#	3,27	
	<i>Taenioides anguillaris</i>	#	1,19,20	
	<i>Taenioides cirratus</i>	#	1	†
	<i>Taenioides rubicundus</i>	#	2,3,18,32,37	
	<i>Tridentiger barbatus</i>	#	1,2,3,19,20	
	<i>Tridentiger obscurus</i>	#	1,20	
	<i>Tridentiger trigonocephalus</i>	#	1,2,3,20,26,36	
	<i>Trypauchen microcephalus</i>	#	2,16,17	
	<i>Trypauchen taenia</i>	#	1,18	
	<i>Trypauchen vagina</i>	#	1,2,3,4,14,18,19,20,32,33,37	
	<i>Valenciennesia muralis</i>	#	2,3,14,15	
	<i>Yongeichthys nebulosus</i>	#	1,20,32	
Microdesmidae	<i>Oxymetopon compressus</i>	#	8	
Ephippidae	<i>Ephippus orbis</i>	#	1,2	
	<i>Platax orbicularis</i>	#	1,2	
	<i>Platax teira</i>	#	18	
Scatophagidae	<i>Scatophagus argus</i>	#	1,2,3,25,36,37	
Siganidae	<i>Siganus canaliculatus</i>	#	1,3,15,18,19,20,25,29,30,32,33,34,35,37	
	<i>Siganus fuscescens</i>	#	1,3,4,18,28	
Zanclidae	<i>Zanclus cornutus</i>	#	1	†
Acanthuridae	<i>Acanthurus bariene</i>	#	3	
	<i>Acanthurus leucopareius</i>	#	1,3	
	<i>Acanthurus nigricans</i>	#	1	†
	<i>Acanthurus olivaceus</i>	#	1	†
	<i>Acanthurus triostegus</i>	#	1	†
	<i>Ctenochaetus binotatus</i>	#	1	†
	<i>Naso annulatus</i>	#	1	†
Sphyraenidae	<i>Sphyraena barracuda</i>	#	2,3	
	<i>Sphyraena flavicauda</i>	#	18,34	

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
	<i>Sphyraena helleri</i>	#	2,3	
	<i>Sphyraena japonica</i>	#	3	
	<i>Sphyraena jello</i>	#	1,2,13,18,19,20,25,34,35,37	
	<i>Sphyraena obtusata</i>	#	2,3	
	<i>Sphyraena pinguis</i>	#	1,18,19,20,25,34,35,37	
Trichiuridae	<i>Eupleurogrammus muticus</i>	#	18,25,34,35	
	<i>Lepturacanthus savala</i>	#	2	
	<i>Trichiurus brevis</i>	#	1	†
	<i>Trichiurus lepturus</i>	#	1,2,3,4,13,18,19,20,24,25,29,30,32,34,35,37	
	<i>Trichiurus nanhaiensis</i>	#	1	†
Scombridae	<i>Acanthocybium solandri</i>	#	2,3	
	<i>Auxis rochei</i>	#	34	
	<i>Auxis thazard</i>		25	
	<i>Euthynnus affinis</i>	#	13,24,25,35	
	<i>Gymnosarda unicolor</i>		25	
	<i>Katsuwonus pelamis</i>		25	
	<i>Rastrelliger faughni</i>		1	†
	<i>Rastrelliger kanagurta</i>	#	1,2,3,13,18,19,20,25,30,34,37	
	<i>Scomber japonicus</i>	#	1,2,3,18,19,20,25,30,34,35,37	
	<i>Scomberomorus commerson</i>	#	1,2,3,13,18,19,20,24,25,37	
	<i>Scomberomorus guttatus</i>	#	1,2,3,18,19,20,25,34,37	
	<i>Scomberomorus koreanus</i>		18,24	
	<i>Scomberomorus niphonius</i>		18	
	<i>Scomberomorus sinensis</i>		24	
	<i>Thunnus albacares</i>		25	
Centrolophidae	<i>Psenopsis anomala</i>	#	1,2,3,4,13,18,19,20,24,25,29,32,33,34,37	
Ariommatidae	<i>Ariomma indica</i>	#	1,2,3,4,13,18,19,20,24,25	
Stromateidae	<i>Pampus argenteus</i>	#	1,2,3,4,13,18,19,20,24,25,37	
	<i>Pampus chinensis</i>	#	1,2,3,18,19,20,25,37	
	<i>Pampus nozawae</i>	#	18,19,20,25,37	
Pleuronectiformes				
Psettodidae	<i>Psettodes erumei</i>	#	1,2,3,4,5,13,15,18,19,20,25,30	
Citharidae	<i>Brachypleura novaezeelandiae</i>	#	4,5	
Bothidae	<i>Arnoglossus japonicus</i>	#	16	
	<i>Arnoglossus tapeinosoma</i>	#	2,5	
	<i>Arnoglossus tenuis</i>	#	1,2,4,5,15,16,19,20,29,32,33,37	
	<i>Asterorhombus intermedius</i>		5	
	<i>Bothus mancus</i>		25	
	<i>Bothus myriaster</i>	#	2,3,4	
	<i>Bothus pantherinus</i>		4	
	<i>Chascanopsetta lugubris</i>		5	
	<i>Crossorhombus azureus</i>	#	1,3,5,19,20,29,32,33	
	<i>Crossorhombus valderostratus</i>		5	
	<i>Engyprosopon grandisquama</i>	#	1,2,3,4,5,16,17,19,20,29,32,33,37	
	<i>Engyprosopon latifrons</i>		5	
	<i>Engyprosopon mogkii</i>	#	5	
	<i>Engyprosopon multisquama</i>	#	1	†
	<i>Laeops kitaharae</i>	#	5,32	
	<i>Psettina brevirectis</i>		5	
	<i>Psettina hainanensis</i>		18	
	<i>Taeniopsetta ocellata</i>		4	
Paralichthyidae	<i>Paralichthys olivaceus</i>	#	1,2,5,14,15,16,17,18,19,20,25,37	
	<i>Pseudorhombus arsius</i>	#	1,2,5,14,19,20,32,37	
	<i>Pseudorhombus cinnamoneus</i>	#	2,5,16	
	<i>Pseudorhombus dupliciocellatus</i>	#	1,4	
	<i>Pseudorhombus javanicus</i>	#	30,33	
	<i>Pseudorhombus levisquamis</i>	#	1,5,19,20,32,33,37	
	<i>Pseudorhombus malayanus</i>	#	1,29,32	
	<i>Pseudorhombus oligodon</i>	#	1,3,4,5,19,20,32,37	
	<i>Pseudorhombus pentophthalmus</i>	#	2,3,4	

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
	<i>Pseudorhombus quinquocellatus</i>		5	
	<i>Tarphops oligolepis</i>	#	2,32	
	<i>Tephrinectes sinensis</i>	#	1,2,3,5,13,24,25	
Pleuronectidae	<i>Pleuronectes herzensteini</i>	#	16	
	<i>Pleuronichthys cornutus</i>	#	1,2,3,5,16,18,19,20,29,32,33	
	<i>Poecilopsetta colorata</i>		5	
Samaridae	<i>Samaris cristatus</i>	#	5,18,32	
	<i>Samariscus huysmani</i>	#	1,5	
Soleidae	<i>Aesopia cornuta</i>	#	1,4,5	
	<i>Aseraggodes kobensis</i>	#	1,5,15,16,32,33,37	
	<i>Euryglossa orientalis</i>	#	2,3,5,13,15,18,25	
	<i>Heteromycteris japonicus</i>	#	1,4	
	<i>Liachirus melanospilus</i>	#	2,17	
	<i>Solea ovata</i>	#	1,2,5,14,15,18,29,32,33,37	
	<i>Synaptura swinhonis</i>	#	2	
	<i>Zebrias quagga</i>	#	1,2,6,32	
	<i>Zebrias zebra</i>	#	1,2,3,5,17,19,20,25,30,37	
Cynoglossidae	<i>Cynoglossus abbreviatus</i>	#	1,2,3,5,18,19,20,37	
	<i>Cynoglossus arel</i>	#	1,2,3,4,5,13,14,15,18,19,20,24,25,29,37	
	<i>Cynoglossus bilineatus</i>	#	1,2,29,32,33	
	<i>Cynoglossus borneensis</i>	#	1,5	
	<i>Cynoglossus gracilis</i>	#	1,5	
	<i>Cynoglossus interruptus</i>	#	3,5,29	
	<i>Cynoglossus itinus</i>	#	1,6,17,29	
	<i>Cynoglossus joyneri</i>	#	1,5,16,17,18,25	
	<i>Cynoglossus kopsii</i>	#	32	
	<i>Cynoglossus lida</i>	#	1	†
	<i>Cynoglossus melampetalus</i>	#	2,5,32	
	<i>Cynoglossus monopus</i>	#	2,6	
	<i>Cynoglossus puncticeps</i>	#	1,5,18,29,32,37	
	<i>Cynoglossus robustus</i>	#	1,2,3,4,5,17,32	
	<i>Cynoglossus semilaevis</i>	#	1,18,19,20,37	
	<i>Paraplagusia bilineata</i>	#	5,37	
	<i>Paraplagusia blochi</i>	#	1,32	
	<i>Paraplagusia japonica</i>	#	1,32,37	
	<i>Symphurus orientalis</i>	#	2,4	
Tetraodontiformes				
Triacanthidae	<i>Triacanthus biaculeatus</i>	#	1,3,18,19,20,37	
Balistidae	<i>Abalistes stellaris</i>		4	
Monacanthidae	<i>Aluterus monoceros</i>	#	1,25,37	
	<i>Aluterus scriptus</i>		18	
	<i>Arotrolepis sulcatus</i>	#	1,18,19,20,37	
	<i>Cantherhines dumerili</i>		1	†
	<i>Cantherhines fronticinctus</i>	#	1	†
	<i>Cantherhines pardalis</i>	#	16	
	<i>Monacanthus chinensis</i>	#	1,3,18,19,20,25,28,29,30,34,35,37	
	<i>Monacanthus setifer</i>	#	1,3,4,19,20,30,33,34,35	
	<i>Paramonacanthus japonicus</i>	#	3,4,16	
	<i>Paramonacanthus nipponensis</i>		18	
	<i>Rudarius ercodes</i>	#	3	
	<i>Stephanolepis cirrifer</i>	#	1,3	
	<i>Thamnaconus hypargyreus</i>		1	†
	<i>Thamnaconus modestoides</i>		1	†
	<i>Thamnaconus modestus</i>	#	18,19,20,32,33,37	
	<i>Thamnaconus tessellatus</i>	#	1,37	
Ostraciidae	<i>Lactoria cornuta</i>	#	3	
	<i>Ostracion nasus</i>	#	30	
	<i>Tetrosomus concatenatus</i>		4	
Tetraodontidae	<i>Amblyrhynchotes honckenii</i>	#	3	
	<i>Arothron manilensis</i>	#	1	†

Table 1. (Cont.)

Class/Order/Family	Species	HKT	Cited in	New records
	<i>Arothron reticularis</i>	#	3	
	<i>Arothron stellatus</i>	#	3	
	<i>Canthigaster bennetti</i>	#	1	†
	<i>Chelonodon patoca</i>	#	1,3,18,19,20,37	
	<i>Lagocephalus gloveri</i>	#	1	†
	<i>Lagocephalus inermis</i>	#	1,18,19,20	
	<i>Lagocephalus lunaris</i>	#	1,3,4,18,19,20,30,34,37	
	<i>Lagocephalus sceleratus</i>	#	1,19,20,30,35	
	<i>Lagocephalus spadiceus</i>	#	1,18,19,20,29,32,33,34,35	
	<i>Lagocephalus wheeleri</i>	#	1	†
	<i>Takifugu alboplumbeus</i>	#	1,19,20,30,33,35,37	
	<i>Takifugu bimaculatus</i>	#	1,18,32,37	
	<i>Takifugu niphobles</i>	#	3	
	<i>Takifugu oblongus</i>	#	1,3,18,19,20,37	
	<i>Takifugu ocellatus</i>	#	1,19,20,30,34,37	
	<i>Takifugu poecilonotus</i>	#	1,34	
	<i>Takifugu porphyreus</i>		18	
	<i>Takifugu xanthopterus</i>	#	1,18,19,20,29,30,37	
	<i>Torquigener hypselogeneion</i>		4	
Diodontidae	<i>Cylichthys orbicularis</i>	#	3	
	<i>Diodon hystrix</i>	#	3	
Total	834	681		97

All scientific names are based on FishBase (Froese and Pauly 1997) and Catalog of Fishes (Eschmeyer 1998); genus names are based on *Catalog of the Genera of Recent Fishes* (Eschmeyer 1990); and family names are based on *Fishes of the World* (Nelson 1994). Fish species are designated as those found in Hong Kong territorial waters (#) or Hong Kong adjacent waters (left blank). Contributors for "Cited in" are listed in the text. Fish species as new records to the area are noted (†).

Labridae, 27 in Scorpaenidae, 23 in Sciaenidae, 23 in Apogonidae, 21 in Clupeidae, and 21 in Tetraodontidae, respectively. These families comprise more than 36% of total species.

The geographic distributions of these 834 fish species are 713 fish species found in the South China Sea, 733 in Taiwan and/or the Taiwan Strait, 485 in the East China Sea, 162 in the Yellow Sea, and 143 in Bohai. This distribution pattern may simply reflect that Hong Kong, the South China Sea, and Taiwan and/or the Taiwan Strait all share similar oceanographic characteristics.

In summary, a compilation of both published and unpublished documents and a comparison with our fish survey list reveals 834 fish species: 244 fish species have not been previously published and 97 fish species are new records.

DISCUSSION

We believe that more fish species will be found in Hong Kong waters because of the unique hydrology and habitat. Hong Kong waters are a mixture of 3 coastal currents (the Chinese Coastal Current, the South China Sea Drift, and the Kuroshio), Pearl

River runoff, and upwelling and downwelling. In addition, they vary seasonally and geographically (Williamson 1970, Morton and Wu 1974, Tang and Ni 1996).

The major objective in constructing this marine fish fauna list is to provide baseline data to stimulate other studies of Hong Kong's fish systematics, fisheries biology, and environmental impact assessments. There is no doubt that we are still missing a number of fish species that are believed to be present in Hong Kong's waters, for example, species inhabiting coral reefs (e.g., Families Labridae, Pomacanthidae, Pomacentridae, and Scaridae), since these fishes are less likely to be collected with conventional commercial fishing/sampling methods. Nevertheless, this checklist can serve as an urgently needed baseline for the planning and implementation of conservation strategies in Hong Kong.

The major problem in validating species from most of the references was that there were no preserved specimens to check. In order to construct a robust database of Hong Kong's marine fauna, we have to establish a museum for proper storage of fish specimens. To date, the Hong Kong Agriculture and Fisheries Department has maintained a considerable library of specimens. Apart from this agency,

some academic institutions also have their own collections (e.g., the Biology Department of Hong Kong University of Science and Technology possesses specimens of 385 fish species). Centralizing all specimens under 1 authority (e.g., Hong Kong Agriculture and Fisheries Department) would strengthen the whole Hong Kong fish specimen collection as well as facilitate the standardization of fish names and any other fish/fishery biology research later.

Other related works including an internet fish database of Hong Kong marine fish and a “complete” Hong Kong marine fish book for laymen have already been put on the agenda. Actually, the internet fish database is under construction but 1 major obstacle is lack of presentable fish photos (originals). It is hoped that we can find contributors from other sources. Furthermore, a precise diagnostic key for Hong Kong marine fish is very important. This project alone demands tremendous time and effort.

Acknowledgments: This Hong Kong fish fauna project started in 1992 with a large number of research assistants and students involved in fish surveying and identification. We thank them, particularly Oi Lin Kan, Yin Ki Tam, Kwong Fai Cheung, Shu Pan, Hsiao-I Lee, Mientje Torey, Ho Yin Tsang, Ka Kin Yeung, Tsz Hin Ng, Yiu Keung Kao, Pui See Wong, and Wa Wai Yau. We also express our appreciation for great help during the inventory of historical records from Dr. Bruce Collette and Hong Kong Agriculture and Fisheries Department, especially Alan Chan, Albert Leung, Pete Gaiger, Joseph Sham, Patsy Wong and Keith Wilson. Thanks are due to Dr. V. A. Unkefer of the Hong Kong University of Science and Technology for her assistance in technical writing.

REFERENCES

- Chan KL, WY Tseng. 1982. A comparative study of the benthic fishes of Tolo Harbour and the northeastern waters of Hong Kong. *In* B Morton, CK Tseng, eds. The marine flora and fauna of Hong Kong and Southern China. Hong Kong: Hong Kong Univ. Press, pp. 801-814.
- Chan LK (Compiler). 1984. Hong Kong fish list. Hong Kong Agriculture Fisheries Department. (unpubl.).
- Chan LK, SW Wong. 1989. Identification guide to fishes of Hong Kong. Hong Kong Agriculture & Fisheries Department Fisheries Branch, Capture Fisheries Division, 55 pp. (unpubl.).
- Chan WL. 1965. A new anacanthobatid skate of genus *Springeria* from the South China Sea. *Jpn. J. Ichthyol.* **13**: 40-45.
- Chan WL. 1966a. *Oxymetopon compressus*, a new eleotrid fish from Hong Kong. *Jpn. J. Ichthyol.* **14**: 1-3.
- Chan WL. 1966b. Notes on opisthognathid jawfishes from Hong Kong, with the description of a new species. *Jpn. J. Ichthyol.* **14**: 9-11.
- Chan WL. 1966c. *Cocotropus hongkongiensis*, a new species of the Aploactidae from Hong Kong. *Jpn. J. Ichthyol.* **14**: 12-16.
- Chan WL. 1968. Marine fishes of Hong Kong. Part I. Hong Kong: Hong Kong Govt. Press, 128 pp.
- Chan WL. 1970. A new genus and two new species of commercial snappers from Hong Kong. *Hong Kong Fish. Bull.* **17**: 19-38.
- Chen Q, B Zheng, eds. 1987. Systematic synopsis of Chinese fishes. Vols. 1-2. Beijing: Science Press, 1458 pp. (in Chinese).
- Chong CK. 1984. The demersal fishery resources in Hong Kong waters. Agriculture and Fisheries Department Fisheries Branch, Capture Fisheries Division. (unpubl.).
- Collette BB, J Su. 1986. The halfbeaks (Pisces, Belontiiformes, Hemiramphidae) of the Far East. *Proc. Acad. Nat. Sci. Philadelphia* **138**: 250-301.
- Eschmeyer WN. 1990. Catalog of the genera of recent fishes. San Francisco: California Academy of Sciences, 697 pp.
- Eschmeyer WN, ed. 1998. Catalog of fishes. Vols. 1-3. San Francisco: California Academy of Sciences.
- Fowler HW. 1930a. Notes on Japanese and Chinese fishes. *Proc. Acad. Nat. Sci. Philadelphia*. Vol 81. (for 1929) pp. 597-616.
- Fowler HW. 1930b. A synopsis of the fishes of China. Part I. The sharks, rays and related fishes. *Hong Kong Naturalist* **1**: 24-34.
- Fowler HW. 1930c. A synopsis of the fishes of China. Part I continued. The sharks, rays and related fishes. *Hong Kong Naturalist* **1**: 79-88.
- Fowler HW. 1930d. A synopsis of the fishes of China. Part I continued. The sharks, rays and related fishes. *Hong Kong Naturalist* **1**: 129-138.
- Fowler HW. 1930e. A synopsis of the fishes of China. Part I concluded. The sharks, rays and related fishes. *Hong Kong Naturalist* **1**: 177-189.
- Fowler HW. 1931a. A synopsis of the fishes of China. Part II. The herrings and related fishes. *Hong Kong Naturalist* **2**: 69-79.
- Fowler HW. 1931b. A synopsis of the fishes of China. Part II continued. The herrings and related fishes. *Hong Kong Naturalist* **2**: 111-123.
- Fowler HW. 1931c. A synopsis of the fishes of China. Part II concluded. The herrings and related fishes. *Hong Kong Naturalist* **2**: 198-208.
- Fowler HW. 1931d. Studies of Hong Kong fishes, no. 2. *Hong Kong Naturalist* **2**: 287-317.
- Fowler HW. 1932a. A synopsis of the fishes of China. Part III. The eels. *Hong Kong Naturalist* **3**: 46-63.
- Fowler HW. 1932b. A synopsis of the fishes of China. Part III concluded. The eels. *Hong Kong Naturalist* **3**: 126-144.
- Fowler HW. 1932c. A synopsis of the fishes of China. Part IV. The cats, lizard fishes, green gars, half beaks and flying fishes. *Hong Kong Naturalist* **3**: 247-279.
- Fowler HW. 1933. A synopsis of the fishes of China. Part V. The cods, opahs, flounders, soles, John dories, berycoids, pipe fishes, silversides, mullets, barracudas and thread fishes. *Hong Kong Naturalist* **4**: 156-175.
- Fowler HW. 1934a. A synopsis of the fishes of China. Part V continued. The cods, opahs, flounders, soles, John dories, berycoids, pipe fishes, silversides, mullets, barracudas and thread fishes. *Hong Kong Naturalist* **5**: 54-67.
- Fowler HW. 1934b. A synopsis of the fishes of China. Part V continued. The cods, opahs, flounders, soles, John dories,

- berycoids, pipe fishes, silversides, mullets, barracudas and thread fishes. *Hong Kong Naturalist* **5**: 146-155.
- Fowler HW. 1934c. A synopsis of the fishes of China. Part V continued. The cods, opahs, flounders, soles, John dories, berycoids, pipe fishes, silversides, mullets, barracudas and thread fishes. *Hong Kong Naturalist* **5**: 210-225.
- Fowler HW. 1934d. A synopsis of the fishes of China. Part V continued. The cods, opahs, flounders, soles, John dories, berycoids, pipe fishes, silversides, mullets, barracudas and thread fishes. *Hong Kong Naturalist* **5**: 304-319.
- Fowler HW. 1935a. A synopsis of the fishes of China. Part V continued. The cods, opahs, flounders, soles, John dories, berycoids, pipe fishes, silversides, mullets, barracudas and thread fishes. *Hong Kong Naturalist* **6**: 62-77.
- Fowler HW. 1935b. A synopsis of the fishes of China. Part V continued. The cods, opahs, flounders, soles, John dories, berycoids, pipe fishes, silversides, mullets, barracudas and thread fishes. *Hong Kong Naturalist* **6**: 132-147.
- Fowler HW. 1935c. A synopsis of the fishes of China. Part V continued. The cods, opahs, flounders, soles, John dories, berycoids, pipe fishes, silversides, mullets, barracudas and thread fishes. *Hong Kong Naturalist* **6**: 276-284.
- Fowler HW. 1936a. A synopsis of the fishes of China. Part VI. The mackerels and related fishes. *Hong Kong Naturalist* **7**: 61-80.
- Fowler HW. 1936b. A synopsis of the fishes of China. Part VI continued. The mackerels and related fishes. *Hong Kong Naturalist* **7**: 186-202.
- Fowler HW. 1936c. A synopsis of the fishes of China. Part VI continued. The mackerels and related fishes. *Hong Kong Naturalist* **7**: 271-315.
- Fowler HW. 1937a. A synopsis of the fishes of China. Part VII. The perch-like fishes. *Hong Kong Naturalist* **8**: 124-145.
- Fowler HW. 1937b. A synopsis of the fishes of China. Part VII continued. The perch-like fishes. *Hong Kong Naturalist* **8**: 249-289.
- Fowler HW. 1938a. A synopsis of the fishes of China. Part VII continued. The perch-like fishes. *Hong Kong Naturalist* **9**: 58-86.
- Fowler HW. 1938b. Studies of Hong Kong fishes, no. 3. *Hong Kong Naturalist (Supplement)* **6**: 1-52.
- Fowler HW. 1939a. A synopsis of the fishes of China. Part VII continued. The perch-like fishes. *Hong Kong Naturalist* **9**: 141-164.
- Fowler HW. 1939b. A synopsis of the fishes of China. Part VII continued. The perch-like fishes. *Hong Kong Naturalist* **9**: 203-220.
- Fowler HW. 1940a. A synopsis of the fishes of China. Part VII continued. The perch-like fishes. *Hong Kong Naturalist* **10**: 39-62.
- Fowler HW. 1940b. A synopsis of the fishes of China. Part VII continued. The perch-like fishes. *Hong Kong Naturalist* **10**: 109-121.
- Fowler HW. 1941. A synopsis of the fishes of China. Part VII continued. The perch-like fishes. *Hong Kong Naturalist* **10**: 205-222.
- Fowler HW. 1949. A synopsis of the fishes of China. Part VII. The perch-like fishes continued. *J. Hong Kong Fisheries Res. Station* **2**: 3-65.
- Fowler HW. 1953. A synopsis of the fishes of China. Part VII. The perch-like fishes continued. *Quart. J. Taiwan Museum* **6**: 1-77.
- Fowler HW. 1954. A synopsis of the fishes of China. Part VII. The perch-like fishes continued. *Quart. J. Taiwan Museum* **7**: 1-110.
- Fowler HW. 1956. A synopsis of the fishes of China. Part VII. The perch-like fishes completed. *Quart. J. Taiwan Museum* **9**: 161-354.
- Fowler HW. 1958. A synopsis of the fishes of China. Part VIII. The Blennioid and related fishes. *Quart. J. Taiwan Museum* **11**: 147-339.
- Fowler HW. 1959. A synopsis of the fishes of China. Part VIII. The Blennioid and related fishes. *Quart. J. Taiwan Museum* **12**: 67-97.
- Fowler HW. 1960. A synopsis of the fishes of China. Part IX. The Gobioid fishes. *Quart. J. Taiwan Museum* **13**: 91-161.
- Fowler HW. 1961a. A synopsis of the fishes of China. Part IX. The Gobioid fishes. *Quart. J. Taiwan Museum* **14**: 49-87.
- Fowler HW. 1961b. A synopsis of the fishes of China. Part IX. The Gobioid fishes. *Quart. J. Taiwan Museum* **14**: 203-250.
- Fowler HW. 1962. A synopsis of the fishes of China. Part X. The Gobioid fishes (concluded). *Quart. J. Taiwan Museum* **15**: 1-77.
- Froese R, D Pauly, eds. 1997. FishBase – A biological database on fish (Software). ICLARM.
- Gaiger PJ. 1974. A provisional list of inshore marine fishes. Agriculture and Fisheries Department. Fisheries Occasional Paper No. 2. (unpubl.).
- Hodgkiss IJ. 1988. Fifty common marine food fishes of Hong Kong. *Mem. Hong Kong Nat. Hist. Soc.* **18**: 19-33.
- Hodgkiss IJ. 1996. Species new to Hong Kong. *Mem. Hong Kong Nat. Hist. Soc.* **20**: 237-238.
- Hong Kong Agriculture and Fisheries Department. 1968. 32 Important food fish and the fishing industry in Hong Kong.
- Hong Kong Agriculture and Fisheries Department. 1972. 50 Important food fish and the fishing industry in Hong Kong.
- Hong Kong Agriculture and Fisheries Department. 1996. Agriculture and Fisheries Annual Departmental Report, 1994-1995. Hong Kong Government.
- Hong Kong Agriculture and Fisheries Department. 1998. Hong Kong fishery resources survey: 1996-1997. Agriculture and Fisheries Department Fisheries Branch, Capture Fisheries Division. (unpubl.).
- Hong Kong Environmental Protection Department. 1996. Hong Kong – the environmental challenge. Hong Kong Environmental Protection Department 1986-1996.
- Hong Kong Government. 1996. Fishing industry. Hong Kong Information Services Department of Hong Kong Government. 2 pp.
- Huang ZG, ed. 1994. Marine species and their distributions in China seas. Beijing: China Ocean Press, 730 pp. (in Chinese).
- Institute of Oceanology Academia Sinica. 1991. Atlas of the sea fishes of China in live color. Vols. 1-2. Shanghai Scientific and Technical Publ. (in Chinese).
- Institute of Oceanology Academia Sinica. 1995. Yellow Sea and East China Sea continental shelf and coastal water living resources preliminary assessment (1991-1995). pp. 172-202. (in Chinese).
- Institute of Zoology Academia Sinica (China). 1962. Fishes of the South China Sea. Vols. 1-3. Beijing: Science Press, 1184 pp. (in Chinese).
- Kwok KY, IH Ni. 1999. Reproduction of cutlassfishes, *Trichiurus* spp., from South China Sea. *Marine Ecology Progress Series* **176**: 39-47.
- Lam C. 1986. A new species of *Bathygobius* (Pisces: Gobiidae) from Hong Kong. *Asian Mar. Biol.* **3**: 75-87.
- Lam C. 1990a. Intertidal gobies (Pisces: Gobiidae) from Hong Kong. In B Morton, ed. The marine flora and fauna of Hong Kong and southern China II. Hong Kong: Hong Kong Univ.

- Press, pp. 673-690.
- Lam C. 1990b. Hong Kong mudskippers (Pisces: Periophthalmidae). *In* B Morton, ed. The marine flora and fauna of Hong Kong and southern China II. Hong Kong: Hong Kong Univ. Press, pp. 691-697.
- Lam C. 1990c. Benthic ichthyofauna of Tolo Harbour and the entrance to Tolo Channel, Mirs Bay. *In* B Morton, ed. The marine flora and fauna of Hong Kong and southern China II. Hong Kong: Hong Kong Univ. Press, pp. 899-905.
- Lee HK. 1997. Night fishing survey with purse-seine at Long Harbour, Double Haven and Hoi Ha Wan (January 1995 to December 1996). Agriculture and Fisheries Department Fisheries Branch, Capture Fisheries Division. (unpubl.).
- Leung AW, YKF Leung, KKY Lam, B Morton. 1997. The evaluation of an experimental artificial reef for marine habitat rehabilitation and the feasibility of using stabilized coal combustion solid residues for reef construction: final report. (unpubl.).
- Leung AW. 1991. Abundance and diversity of benthic fishes. Tolo and Mirs Bay, Hong Kong. *In* B Morton, ed. The marine flora and fauna of Hong Kong and southern China III. Vol. 1. Hong Kong: Hong Kong Univ. Press, pp. 459-473.
- Leung AW. 1994. The fish fauna of Lobster Bay, Cape D'Aguilar, Hong Kong. Master's thesis, Hong Kong Univ.
- Leung AW. 1997a. The impacts of dredging and fishing. *In* B Morton, ed. The marine flora and fauna of Hong Kong and southern China IV. Hong Kong: Hong Kong Univ. Press, pp. 437-461.
- Leung AW. 1997b. The epibenthic ichthyofauna of Tolo Harbour and Hong Kong's northeastern waters: a long term record of change. *In* B Morton, ed. The marine flora and fauna of Hong Kong and southern China IV. Hong Kong: Hong Kong Univ. Press, 463-487.
- Morton B, CK Tseng, eds. 1982. The marine flora and fauna of Hong Kong and Southern China: proceedings of the First International Marine Biological Workshop, Hong Kong, 18 April-10 May 1980. Hong Kong: Hong Kong Univ. Press.
- Morton B, ed. 1990. The marine flora and fauna of Hong Kong and southern China II: proceedings of the Second International Marine Biological Workshop, Hong Kong, 2-24 April 1986. Hong Kong: Hong Kong Univ. Press.
- Morton B, ed. 1992. The marine flora and fauna of Hong Kong and southern China III: proceedings of the Fourth International Marine Biological Workshop, Hong Kong, 11-29 April 1989. Hong Kong: Hong Kong Univ. Press.
- Morton B, ed. 1997. The marine flora and fauna of Hong Kong and southern China IV: proceedings of the Eighth International Marine Biological Workshop, Hong Kong, 2-20 April 1995. Hong Kong: Hong Kong Univ. Press.
- Morton B, SS Wu. 1974. The hydrology of the coastal waters of Hong Kong. *Environ. Res.* **10**: 319-347.
- Nelson JS. 1994. Fishes of the world. 3rd ed. USA: J. Wiley, 600 pp.
- Ni IH. 1994a. Environmental impact assessment for borrow area south of Ninepin Island (fisheries survey). Contract report submitted to Binnie Consultants Ltd. for Civil Engineering Department of Hong Kong Government. 44 pp.
- Ni IH. 1994b. Independent environmental monitoring and audit of dredging in the East Lamma channel (fish trawl survey). Contract report submitted to Binnie Consultants Ltd. for Civil Engineering Department of Hong Kong Government. 35 pp.
- Ni IH. 1995a. The impact of dredging on fisheries sensitive receiver (Hong Kong's territorial baseline survey for marine fisheries). Contract report submitted to Binnie Consultants Ltd. for Civil Engineering Department of Hong Kong Government. 87 pp.
- Ni IH. 1995b. EIA on sand dredging & backfill of borrow pits at potential eastern water marine borrow area: impact on fisheries. Contract report submitted to AXIS Environmental Consultants Ltd. for Civil Engineering Department of Hong Kong Government. 9 pp.
- Ni IH. 1995c. The demersal fisheries resources in eastern waters: comparative study of fishing surveys conducted in 1982/83 and contract report submitted to AXIS Environmental Consultants Ltd. for Civil Engineering Department of Hong Kong Government. 31 pp.
- Ni IH. 1997. Seasonal variability of fisheries resources in the east of Sha Chau. *In* Proceedings of a Colloquium on the development of management strategy for Chinese white dolphins, pp. 69-83.
- Pan S, IH Ni. 1996. Genetic variation and identification of butterfish (*Pampus* sp.) in the Chinese waters. MPhil thesis, Hong Kong Univ. Science & Technology.
- Richards J, RSS Wu. 1985. Inshore fish community structure in a subtropical estuary. *Asian Mar. Biol.* **2**: 57-68.
- Shen SC, KT Shao, CT Chen, CH Chen, SC Lee, H Mok. 1993. Fishes of Taiwan. Taipei: Department of Zoology, National Taiwan Univ. 960 pp. (in Chinese).
- Shen SC. 1964. A list of fishes from Hong Kong. *Quart. J. Taiwan Mus.* **17**(3-4): 193-208.
- Shen SC. 1967a. Study of flat fishes (Pleuronectiforms or Heterosomata) in the adjacent water of Hong Kong. *Quart. J. Taiwan Mus.* **20**(1-2): 149-281.
- Shen SC. 1967b. Additions to the study of flat fishes in the adjacent water of Hong Kong. *Rept. Inst. Fishery Biol.* **2**: 19-27.
- Shen SC. 1984a. Synopsis of fishes of Taiwan. Taipei: Southern Materials Center, 553 pp. (in Chinese).
- Shen SC. 1984b. Coastal fishes of Taiwan. Taipei: Dept. of Zoology, National Taiwan Univ., 160 pp. (in Chinese).
- South China Sea Fisheries Institute. 1979. The fishes of the islands in the South China Sea. Beijing: Science Press, 613 pp. (in Chinese).
- Tang DL, IH Ni. 1996. Remote sensing of Hong Kong waters: spatial and temporal changes of sea surface temperature. *Acta Oceanogr. Taiwanica* **35**: 173-186.
- Thompson GB, M Horikoshi. 1982. Distribution of subtidal benthos collected by trawling in Tolo Harbour and Tolo Channel, Hong Kong. *In* B Morton, CK Tseng, eds. The marine flora and fauna of Hong Kong and southern China. Hong Kong: Hong Kong Univ. Press, pp. 733-743.
- Thompson GB, RSS Wu, DJH Philips. 1982. A trawl survey of the benthos of Tolo Harbour and Tolo Channel in 1978. *In* B Morton, CK Tseng, eds. The marine flora and fauna of Hong Kong and southern China. Hong Kong: Hong Kong Univ. Press, pp. 745-760.
- Wang KL, LY Liu, F You, C Xu. 1992. Studies on the genetic variation and systematics of the hairtails fishes from South China Sea. *Marine Sci.* **2**: 69-71. (in Chinese).
- Wang KL, PJ Zhang, LY Liu, F You, C XU, JF Wang. 1994. Biochemical assessment of the taxonomic status of Trichiuridae population from China coastal water. *Acta Oceanol. Sinica* **16**: 93-104. (in Chinese).
- Wang KL, PJ Zhang, LY Liu, F You, C XU. 1993. Studies on Trichiuridae from China coastal water. *Acta Oceanol. Sinica* **15**: 77-85. (in Chinese).
- Williamson GR. 1970. The hydrography and weather of the Hong Kong fishing grounds. *Hong Kong Fisheries Bull.* **1**: 43-49.
- Wong KC. 1982. A preliminary survey of the benthic fishes of Tolo Harbour. *In* B Morton, CK Tseng, eds. The marine flora

and fauna of Hong Kong and southern China. Hong Kong: Hong Kong Univ. Press, pp. 921-933.
Wu RSS. 1984. The feeding habits of seven demersal fish species in a subtropical estuary. *Asian Mar. Biol.* 1: 17-26.
Zhang CL, ed. 1955. *Yellow Sea and East China Sea fishes as-*

essment report. Beijing: Science Press, 353 pp. (in Chinese).
Zhu YD, CL Zhang, QT Cheng, eds. 1963. *Fishes of East Chinese Sea.* Beijing: Science Press, 642 pp. (in Chinese).

香港海域之魚類相

倪怡訓¹ 郭啓賢¹

近年來珠江口的工業化和香港的城市建設，已對香港沿海環境構成了很大的負擔。由於持續的城市污水排放、海沙的挖掘、海泥的傾瀉，以及填海造地，海洋的污染會逐漸的加劇。海洋環境評估是需要一個健全的海洋生物多樣性的資料庫，藉此可分析環境的惡化及其對生物相所造成的影響程度。然而，在香港海域居然沒有一個最基本的魚類相資料，所以無從對各種基礎建設中，對海洋污染影響，做出一個有效的評估。因此，在設立香港海域的保育政策，魚類相資料庫的建立是一個迫不及待的重要環節。這篇報告，是首次對香港海域魚類相做出一個全面的報導，我們根據歷年來所做的魚類調查，整理了過去發表和未發表的文獻和工作報告，列出了香港水域有 834 個魚種，屬於 25 門，124 科和 390 屬。其中 97 個魚種是新紀錄。

關鍵詞：魚，動物相，香港，新記錄。

¹ 香港科技大學生物系