

A checklist of the parasitic copepods of Taiwanese aquatic animals (1930–2024), with a note on Ju-shey Ho's contribution to clarifying the parasitic copepod fauna of Taiwan

KAZUYA NAGASAWA^{1,†,*} & YU-RONG CHENG²

¹ Graduate School of Integrated Sciences for Life, Hiroshima University, 1–4–4 Kagamiyama, Higashi-Hiroshima, Hiroshima 739–8528, Japan

² Department of Fisheries Technology and Management, National Kaohsiung University of Science and Technology, Kaohsiung 811213, Taiwan

† Present address: Aquaparasitology Laboratory, 365–61 Kusanagi, Shizuoka 424–0886, Japan

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Abstract: Based on the literature published between 1930 and 2024, this checklist assembles information on the parasitic copepods of fishes and other aquatic animals of Taiwan. During this 95-year period, a total of 233 valid species of parasitic copepods were reported, and they comprise 118 and 115 species in the orders Cyclopoida and Siphonostomatoida, respectively. The cyclopoid copepods span 14 families, consisting of the Anchimolgidae (13 spp.), Anthessiidae (1 sp.), Bomolochidae (26 spp.), Chondracanthidae (10 spp.), Clausiidae (1 sp.), Ergasilidae (3 spp.), Iveidae (1 sp.), Lernaecidae (2 spp.), Macrochironidae (1 sp.), Myicolidae (3 spp.), Rhynchomolgidae (1 sp.), Strepidae (1 sp.), Tæniacanthidae (23 spp.) and Xarifiidae (32 spp.). The siphonostomatoid copepods belong to 10 families, which are the Asterocheridae (2 spp.), Caligidae (78 spp.), Coralliomyzontidae (1 sp.), Dissonidae (2 spp.), Hatschekiidae (1 sp.), Lernaecopodidae (3 spp.), Lernanthropidae (18 spp.), Nicthoidae (1 sp.), Pandaridae (8 spp.) and Pennellidae (1 sp.). The reported copepods comprise both 175 and 58 species that are parasites of fishes and invertebrates, respectively. This checklist also includes records of the parasitic copepods not identified at the species level. Since the early 1960's to date, Dr. Ju-shey Ho has greatly contributed to clarifying the fauna of the parasitic copepods of Taiwanese aquatic animals. Along with his Taiwanese coworkers, he reported 184 species (79% of the parasitic copepods known from Taiwan) and established one new family, three new genera, and 55 new species based on specimens from Taiwan. He also contributed to many excellent works of Taiwanese caligid copepods.

Key words: bibliography, fauna, parasite-host list, parasitic copepods, Taiwan

Introduction

Research on the parasitic copepods of Taiwanese aquatic animals began in 1930 (Harada 1930) and has been conducted for more than nine decades since then. Harada (1930) described a new species of ergasilid copepod [as *Ergasilus japonicus* Harada, 1930, currently *Neoergasilus japonicus* (Harada, 1930)] from Taiwanese freshwater fishes, and this species is the first parasitic copepod reported

from Taiwanese aquatic animals. As demonstrated below, over 230 valid species of parasitic copepods have been identified in Taiwan, but the information on these species remains dispersed across various scientific journals both published within Taiwan and internationally. These data have yet to be consolidated, with the exception of the family Caligidae (Ho & Lin 2004b). Consequently, it has been challenging to comprehensively assess the known fauna and diversity of parasitic copepods of Taiwanese aquatic animals. To address this issue, the available information on the parasitic copepods of Taiwan is compiled here into a Parasite-Host List, based on the literature published from

* Corresponding author: Kazuya Nagasawa; E-mail, ornatus@hiroshima-u.ac.jp

1930 to 2024. This checklist also assesses the contribution of Dr. Ju-shey Ho (Professor Emeritus, California State University, Long Beach, USA), who has described numerous species of Taiwanese parasitic copepods from the early 1960's to the present.

Methods

The information presented in this checklist was meticulously extracted from the literature published between 1930 and 2024 and systematically organized into a Parasite-Host List. This list is organized by orders of copepods (Cyclopoida and Siphonostomatoida) and, within each order, families, genera, and species are listed in alphabetical order. For each copepod species, the following information is provided: 1) the valid scientific name; 2) the habitat where the copepod normally completes its life cycle is indicated in parentheses as M for marine, B for brackish, and F for fresh water; 3) the *Host* or *Hosts*; the currently accepted scientific name is given, and synonymized scientific names, if present, follow in parentheses. When various host species are reported for a single copepod species, host scientific names are arranged alphabetically. Scientific names of the hosts follow FishBase for fishes (Froese & Pauly 2024) and WoRMS for other aquatic animals [Hoeksema (2024) for corals, Vinarski (2024) for bivalves, De Grave (2024) for spiny lobsters, Swalla & van der Land (2024) for acorn worms]. After host scientific name(s), the common name of the host(s), such as soft coral(s) and teleost(s), is also given in parentheses; the *Site* or *Sites* is the site(s) of attachment of the copepod on its host(s); the *Locality* or *Localities* in which the host(s) was/were collected. When a single copepod species was collected from various host species from different localities, these localities are numbered and shown in parentheses after respective host scientific names. In addition, different names were often used to address the same collection locality of parasitic copepods in different papers, and in such cases, following Ho & Lin (2004b: fig. 1), standardized names are adopted here for respective collection localities to prevent the readers from confusion and misunderstanding of localities; the *Reference* or *References* are the paper(s) that reported on each copepod species presented here; and *Remarks* includes comments on the taxonomy, synonymy, and reported collection localities of the copepods.

Results

Over a 95-year period from 1930 to 2024, a total of 233 valid species of parasitic copepods were documented from Taiwanese fishes and other aquatic animals, and they comprise 118 and 115 species in the orders Cyclopoida and Siphonostomatoida, respectively. The fish-parasitic copepods (n=175) are more numerous than the invertebrate-parasitic copepods (n=58). Information on each species of copepod is provided below.

Parasite-Host List

Order **Cyclopoida** Burmeister, 1834

Taxa involved: 118 species in 46 genera belonging to 14 families

Family **Anchimolgidae** Humes & Boxshall, 1996

Taxa involved: 13 species in 8 genera

(1 sp. in *Alienigena*; 1 sp. in *Allopodion*; 5 spp. in *Anchimoligus*; 1 sp. in *Clamocus*; 1 sp. in *Haplomoligus*; 1 sp. in *Karanges*; 2 spp. in *Odontomoligus*; 1 sp. in *Sociellus*)

Alienigena triangula Cheng, Ho & Dai, 2016 (M)

Host: *Pavona explanulata* (hard coral); Site: inside polyps (from washings); Locality: Yen-liao Bay; Reference: Cheng et al. (2016a).

Remarks: Cheng et al. (2016a) created *Alienigena* as a new genus to accommodate this species. The collection locality was reported as "Yenliao" Bay (Cheng et al. 2016a).

Allopodion ryukyuensis Kim & Yamashiro, 2007 (M)

Host: *Montipora aequituberculata* (hard coral); Site: galls; Locality: Wan-li-tong; Reference: Cheng et al. (2010).

Remarks: The collection locality was reported as "Wanlitong" (Cheng et al. 2010).

Anchimoligus amplius Cheng & Dai, 2018 (M)

Hosts: *Galaxea astreata*, *Galaxea fasciculari* (hard corals); Site: surface of colony (from washings); Locality: Dong-sha Atoll; Reference: Cheng & Dai (2018).

Remarks: The collection locality was reported as "Dong-sha atoll" (Cheng & Dai 2018).

Anchimoligus contractus Humes, 1979 (M)

Host: *Galaxea fascicularis* (hard coral); Site: surface of colony (from washings); Locality: Dong-sha Atoll; Reference: Cheng & Dai (2018).

Remarks: The collection locality was reported as "Dong-sha atoll" (Cheng & Dai 2018).

Anchimoligus nasutus Humes, 1996 (M)

Host: *Galaxea fascicularis* (hard coral); Site: surface of colony (from washings); Locality: Dong-sha Atoll; Reference: Cheng & Dai (2018).

Remarks: The collection locality was reported as "Dong-sha atoll" (Cheng & Dai 2018).

Anchimoligus partenuipes Kim, 2007 (M)

Host: *Pocillopora damicornis* (hard coral); Site: surface of colony (from washings); Locality: Nan-wan Bay; Reference: Cheng et al. (2016b).

Remarks: The collection locality was reported as "Nanwan" Bay (Cheng et al. 2016b).

***Anchimolgus tanaus* Humes, 1991 (M)**

Hosts: *Galaxea astreata*, *Galaxea fascicularis* (hard corals); Site: surface of colony (from washings); Locality: Dong-sha Atoll; Reference: Cheng & Dai (2018).

Remarks: The collection locality was reported as “Dong-sha atoll” (Cheng & Dai 2018).

***Clamocus spinifer* Humes, 1979 (M)**

Hosts: *Galaxea astreata*, *Galaxea fascicularis* (hard corals); Site: surface of colony (from washings); Locality: Dong-sha Atoll; Reference: Cheng & Dai (2018).

Remarks: The collection locality was reported as “Dong-sha atoll” (Cheng & Dai 2018).

***Haplomolgus montiporae* Humes & Ho, 1968 (M)**

Host: *Montipora aequituberculata* (hard coral); Site: galls; Locality: Wan-li-tong; Reference: Cheng et al. (2010).

Remarks: The collection locality was reported as “Wanlitong” (Cheng et al. 2010).

***Karanges hypsorophus* Humes, 1979 (M)**

Host: *Galaxea fasciculari* (hard coral); Site: surface of colony (from washings); Locality: Dong-sha Atoll; Reference: Cheng & Dai (2018).

Remarks: The collection locality was reported as “Dong-sha atoll” (Cheng & Dai 2018).

***Odontomolgus cognatus* Cheng, Ho & Dai, 2016 (M)**

Host: *Pavona explanulata* (hard coral); Site: surface of colony (from washings); Locality: Yen-liao Bay; Reference: Cheng et al. (2016a).

Remarks: The collection locality was reported as “Yenliao” Bay (Cheng et al. 2016a).

***Odontomolgus mucosus* Kim, 2006 (M)**

Host: *Pavona explanulata* (hard coral); Site: surface of colony (from washings); Locality: off Yen-liao Bay; Reference: Cheng et al. (2016a).

Remarks: The collection locality was reported as “Yenliao” (Cheng et al. 2016a).

***Sociellus subgeminus* Cheng, Ho & Dai, 2016 (M)**

Host: *Pavona explanulata* (hard coral); Site: surface of colony (from washings); Locality: Yen-liao Bay; Reference: Cheng et al. (2016a).

Remarks: The collection locality was reported as “Yenliao” Bay (Cheng et al. 2016a).

Family **Anthessiidae** Humes, 1986
Taxon involved: 1 species in 1 genus
(1 sp. in *Anthessius*)

***Anthessius ntytilicolus* Reddiah, 1966 (M)**

Host: *Perna viridis* (bivalve); Site: unknown (from washings); Locality: Bu-dai; Reference: Lin & Ho (1999).

Remarks: The collection locality was reported as

“Bu-Dai” (Lin & Ho 1999).

Family **Bomolochidae** Claus, 1875

Taxa involved: 26 species in 8 genera

(4 spp. in *Bomolochus*; 1 sp. in *Boylea*; 1 sp. in *Cresseyus*; 1 sp. in *Holocolax*; 4 spp. in *Naricolax*; 9 spp. in *Nothobolomochus*; 1 sp. in *Pumiliopsis*; 5 spp. in *Unicolax*)

***Bomolochus bramus* Ho & Lin, 2009 (M)**

Hosts: *Brama japonica*, *Eumegistus illustris* (teleosts); Site: gills; Locality: Tai-dong Fishing Port; Reference: Ho & Lin (2009).

Remarks: The collection locality was reported as “Tai-Dong” Fishing Port (Ho & Lin 2009).

***Bomolochus megaceros* Heller, 1865 (M)**

Host: *Parastromateus niger* (teleost); Site: gills; Locality: Mi-tuo Fishing Port; Reference: Lin & Ho (2005b).

***Bomolochus minus* Lin & Ho, 2005 (M)**

Hosts: *Chrysochir aureus* (1), *Gerres filamentosus* (2), *Johnius amblycephalus* (1), *Johnius belangerii* (3), *Pennahia pawak* (1) (teleosts); Site: gills or gill cavity; Localities: 1, Dong-shi Fishing Port; 2, Mi-tuo Fishing Port; 3, Sheng-dah Fishing Port; Reference: Lin & Ho (2005b).

***Bomolochus selaroides* Pillai, 1965 (M)**

Host: *Decapterus kurroides* (teleost); Site: gill cavity; Localities: Dong-shi Fishing Port, Da-hsi Fishing Port; Reference: Lin & Ho (2005b).

Remarks: The first and second collection localities were reported as “Dong-shih” Fishing Port and “Da-shi” Fishing Port, respectively (Lin & Ho 2005b).

***Boylea longispica* Cressey, 1977 (M)**

Host: *Elagatis bipinnulata* (teleost); Site: nasal cavity; Locality: off Tai-dong; Reference: Ho & Lin (2007a).

Remarks: The name of (Tai-dong) of the collection locality was reported as “Tai-Dong” (Ho & Lin 2007a).

***Cresseyus nudulus* Ho & Lin, 2006 (M)**

Host: *Terapon jarbua* (teleost); Sites: operculum, gills, nasal cavity; Localities: Dong-shi Fishing Port, Mi-tuo Fishing Port; Reference: Ho & Lin (2006a).

Remarks: Ho & Lin (2006a) created *Cresseyus* as a new genus to accommodate this species.

***Holocolax longisetus* Cressey, 1982 (M)**

Hosts: *Nemipterus zysron* (1), *Nemipterus* sp. (reported as *N. mulloides*) (2) (teleosts); Site: gills; Localities: 1, Tai-dong Fishing Port; 2, not reported; References: Cressey (1982), Ho et al. (2007a).

Remarks: The host fish (*N. mulloides*) recorded by Cressey (1982) is a junior synonym of *N. bipunctatus* (Froese & Pauly 2024), but the latter species does not occur in Taiwanese waters (Russell 1993, Froese & Pauly 2024). Thus, the fish recorded by Cressey (1982) is reported here

as *Nemipterus* sp. The first collection locality was reported as “Tai-Dong” Fishing Port (Ho et al. 2007a).

***Naricolax atypicus* Ho, Do & Kasahara, 1983 (M)**

Host: *Acanthopagrus schlegelii* (teleost); Site: nasal cavity; Locality: Dong-shi Fishing Port; Reference: Ho & Lin (2005a).

***Naricolax insolitus* Ho & Lin, 2003 (M)**

Host: *Pampus argenteus* (teleost); Site: nasal cavity; Localities: Sheng-dah Fishing Port, Dong-shi Fishing Port; Reference: Ho & Lin (2003a).

Remarks: The first and second collection localities were reported as “Sheng-Dah” Fishing Port and “Dong-Shih” Fishing Port, respectively (Ho & Lin 2003a).

***Naricolax longispina* Ho & Lin, 2005 (M)**

Host: *Leiognathus equula* (reported as *L. equulus*) (teleost); Site: nasal cavity; Localities: Mi-tuo Fishing Port, Dong-shi Fishing Port; Reference: Ho & Lin (2005a).

***Naricolax stocki* (Roubal, 1981) (M)**

Host: *Pampus argenteus* (teleost); Site: nasal cavity; Locality: Dong-shi Fishing Port; Reference: Ho & Lin (2005a).

***Nothobomolochus cypseluri* (Yamaguti, 1953) (M)**

Host: *Cypselurus oligolepi* (teleost); Site: gills; Locality: Mi-tuo Fishing Port; Reference: Lin & Ho (2004).

***Nothobomolochus gazzae* (Shen, 1957) (M)**

Host: *Trichiurus lepturus* (teleost); Site: gill cavity; Locality: Dong-shi Fishing Port; Reference: Lin & Ho (2008a).

***Nothobomolochus gibber* (Shiino, 1957) (M)**

Host: *Strongylina leiura* (teleost); Site: gills; Locality: Dong-shi Fishing Port; Reference: Lin & Ho (2005a).

Remarks: The collection locality was reported as “Dong-shih” Fishing Port (Lin & Ho 2005a).

***Nothobomolochus kanagurta* (Pillai, 1965) (M)**

Host: *Rastrelliger kanagurta* (teleost); Site: gill cavity; Localities: Mi-tuo Fishing Port; Dong-shi Fishing Port; Reference: Lin & Ho (2004).

Remarks: The second collection locality was reported as “Dong-hsi” Fishing Port (Lin & Ho 2004).

***Nothobomolochus lateolabracis* (Yamaguti & Yamasu, 1959) (M)**

Host: *Sillago sihama* (teleost); Site: gills; Locality: Dong-shi Fishing Port; Reference: Lin & Ho (2005a).

Remarks: The collection locality was reported as “Dong-shih” Fishing Port (Lin & Ho 2005a).

***Nothobomolochus lizae* Ho & Lin, 2005 (M)**

Host: *Planiliza macrolepis* (reported as *Liza macrolepis*) (teleost); Site: gill cavity; Localities: Hsi-liao, Mi-tuo Fishing Port, Dong-shi Fishing Port; Reference: Ho & Lin (2005b).

***Nothobomolochus longisaccus* Ho & Lin, 2005 (M)**

Host: *Thryssa hamiltonii* (teleost); Site: gills; Locality: Dong-shi Fishing Port; Reference: Ho & Lin (2005b).

***Nothobomolochus tricerus* (Bassett-Smith, 1898) (M)**

Hosts: *Lobotes surinamensis* (1), *Pampus argenteus* (1, 2) (teleosts); Sites: gills, gill cavity; Localities: 1, Dong-shi Fishing Port; 2, Mi-tuo Fishing Port; Reference: Lin & Ho (2004).

Remarks: The first collection locality was reported as “Dong-hsi” Fishing Port (Lin & Ho 2004).

***Nothobomolochus trichiuri* Pillai & Natarajan, 1977 (M)**

Host: *Trichiurus lepturus* (teleost); Site: gills; Locality: Dong-shi Fishing Port; Reference: Lin & Ho (2005a).

Remarks: The collection locality was reported as “Dong-shih” Fishing Port (Lin & Ho 2005a).

***Pumiliopsis sardinellae* (Bennet 1964) (M)**

Host: *Sardinella fimbriata* (teleost); Site: eyes; Locality: not reported; Reference: Cressey & Cressey (1980b).

***Unicolax ciliatus* Cressey & Cressey, 1980 (M)**

Host: *Scomberomorus commerson* (teleost); Site: nasal cavity; Locality: Mi-tuo Fishing Port; Reference: Lin & Ho (2006a).

Remarks: The collection locality was reported as “Mi-Tuo” Fishing Port (Lin & Ho 2006a).

***Unicolax collateralis* Cressey & Cressey, 1980 (M)**

Host: *Euthynnus affinis* (teleost); Site: nasal cavity; Locality: Dong-shi Fishing Port; References: Cressey & Cressey (1980a), Lin & Ho (2006a).

Remarks: The collection locality was reported as “Ding-Shih” Fishing Port (Lin & Ho 2006a). No collection locality was reported by Cressey & Cressey (1980a).

***Unicolax longispinus* Lin & Ho, 2006 (M)**

Host: *Psenopsis anomala* (teleost); Site: nasal cavity; Localities: Hsing-dah Fishing Port, Dong-shi Fishing Port; Reference: Lin & Ho (2006a).

Remarks: The first and second collection localities were reported as “Hsing-Dah” Fishing Port and “Dong-Shih” Fishing Port, respectively (Lin & Ho 2006a).

***Unicolax mycterobius* (Vervoort, 1965) (M)**

Host: *Auxis* sp. (teleost); Site: nasal cavity; Locality: not reported; Reference: Cressey & Cressey (1980a).

***Uicolax quadrispinulus* Lin & Ho, 2006 (M)**

Host: *Sillago sihama* (teleost); Site: nasal cavity; Localities: Hsing-dah Fishing Port, Dong-shi Fishing Port; Reference: Lin & Ho (2006a).

Remarks: The first and second collection localities were reported as “Hsing-Dah” Fishing Port and “Dong-Shih” Fishing Port, respectively (Lin & Ho 2006a).

Family **Chondracanthidae** Milne Edwards, 1840

Taxa involved: 10 species in 7 genera

(1 sp. in *Acanthochondria*; 3 spp. in *Bactrochondria*;

1 sp. in *Ceratochondria*; 1 sp. in *Heterochondria*;

1 sp. in *Lateracanthus*; 2 spp. in *Parapercicola*; 1 sp.

in *Prochondracanthopsis*)

***Acanthochondria eptatreti* Cheng, Luo, Dai & Shih, 2014 (M)**

Hosts: *Eptatretus burgeri*, *Eptatretus sheni*, *Eptatretus yangi* (hagfishes); Site: pharynx; Locality: off Yi-Lan County; Reference: Cheng et al. (2014a).

***Bactrochondria formosana* Ho, Lin & Liu, 2011 (M)**

Host: *Paraplagusia bilineata* (teleost); Site: gills; Locality: Mi-tuo Fishing Port; Reference: Ho et al. (2011a).

***Bactrochondria longitruncus* (Yamaguti, 1939) (M)**

Host: *Paraplagusia japonica* (teleost); Site: gills; Locality: Dong-shi Fishing Port; Reference: Ho et al. (2011a).

***Bactrochondria tuase* Ho, Lin & Liu, 2011 (M)**

Host: *Paraplagusia blochii* (teleost); Site: gills; Locality: Dong-shi Fishing Port; Reference: Ho et al. (2011a).

***Ceratochondria brevicollis* (Krøyer, 1863) (M)**

Hosts: *Pseudorhombus arsius* (1), *Pseudorhombus oligodon* (2) (teleosts); Site: gills; Localities: 1, Mi-tuo Fishing Port; 2, Dong-shi Fishing Port; Reference: Ho et al. (2011a).

***Heterochondria longicephala* (Yü & Wu, 1932) (M)**

Hosts: *Pseudorhombus arsius* (1), *Pseudorhombus neglectus* (1), *Pseudorhombus oligodon* (2) (teleosts); Site: gills; Localities: 1, Mi-tuo Fishing Port; 2, Dong-shi Fishing Port; Reference: Ho et al. (2011a).

***Heterochondria* sp. (M)**

Host: *Pseudorhombus oligodon* (teleost); Site: gills; Locality: Mi-tuo Fishing Port; Reference: Ho et al. (2011a).

***Lateracanthus quadripedis* Kabata & Gusev, 1966 (M)**

Host: *Coryphaenoides rudis* (teleost); Site: gill cavity; Locality: Xin-gang Fishing Port; Reference: Cheng et al. (2022).

Remarks: The collection locality was reported as “Xingang” Fishing Port (Cheng et al. 2022).

***Parapercicola formosana* Ho, Liu & Lin, 2011 (M)**

Host: *Parapercis multifasciata* (teleost); Site: gills; Lo-

cality: Da-hsi Fishing Port; Reference: Ho et al. (2011b).

Remarks: Ho et al. (2011b) created *Parapercicola* as a new genus to accommodate this species.

***Parapercicola inflata* Ho, Liu & Lin, 2013 (M)**

Host: *Priacanthus macracanthus* (teleost); Site: nasal cavity; Localities: Cheng-gong Fishing Port, Dong-shi Fishing Port, Zi-guan Fishing Port; References: Ho et al. (2013a), Cheng et al. (2021a).

Remarks: The fourth collection locality was reported as “Ziguan” Fishing Port (Cheng et al. 2021a).

***Prochondracanthopsis quadricornutus* Shiino, 1960 (M)**

Hosts: *Parapercis multifasciata* (1), *Parapercis sexfasciata* (1, 2), *Parapercis* sp. (1) (teleosts); Site: gills; Localities: 1, Da-hsi Fishing Port; 2, Sheng-dah Fishing Port; Reference: Ho et al. (2011b).

Family **Clausiidae** Giesbrecht, 1895

Taxon involved: 1 species in 1 genus

(1 sp. in *Indoclausia*)

***Indoclausia helioporae* Cheng, Ho & Dai, 2014 (M)**

Host: *Heliopora coerulea* (soft coral); Site: surface of colony (from washings); Locality: He-jie; Reference: Cheng et al. (2014b).

Remarks: The collection locality was reported as “Hejie” (Cheng et al. 2014b).

Family **Ergasilidae** Burmeister, 1835

Taxa involved: 3 species in 3 genera

(1 sp. in *Ergasilus*; 1 sp. in *Neoergasilus*; 1 sp. in *Thersitina*)

***Ergasilus lobus* Lin & Ho, 1998 (B)**

Host: *Epinephelus malabaricus* (teleost); Site: gills; Locality: culture ponds in Chi-gu; Reference: Lin & Ho (1998a).

Remarks: The name (Chi-gu) of the collection locality was reported as “Chi-ku Village” (Lin & Ho 1998a).

***Neoergasilus japonicus* (Harada, 1930) (F)**

Hosts: *Aphyocypris moltrechti* (reported as *Pararasbora moltrechti*) (1), *Hemiculter leucisculus* (reported as *Cultricus knei*, see the Remarks below) (1), *Nipponocypris temminckii* (reported as *Zacco temminckii*) (2), *Pseudorasbora parva* (1) (teleosts); Sites: mucous membrane at base of fins, outer surface of operculum; Localities: 1, Lake Zitsugetsu-tan (reported as Lake Jitsugetsutan); 2, Tensonpi; Reference: Harada (1930).

Remarks: This copepod was reported from Taiwan as *Ergasilus japonicus* (Harada 1930, 1933, 1937a, b, 1942), which is currently placed in the genus *Neoergasilus* (Yin 1956). The host reported as “*Cultricus knei*” does not correspond to any fish species in FishBase (Froese & Pauly 2024), but based on its Japanese name found in the abstract of Harada’s (1930) paper, it can be regarded as *Hemiculter leucisculus*. Planktonic individuals of *N. japonicus* were

collected in Lake Zitsugetsu-tan (reported as Zitugetutan, Harada 1933; Zitugetu-Tan, Harada 1942) and Lake Sango-tan (reported as Sango-Tan, Harada 1937a, b).

***Thersitina kasaharai* (Do, 1981) (B)**

Hosts: *Chanos chanos* (1), *Planiliza macrolepis* (reported as *Liza macrolepis*) (2) (teleosts); Site: gills; Localities: 1, culture ponds in Chi-gu; 2, culture ponds in Hu-nei; Reference: Lin & Ho (1998a).

Remarks: This copepod was reported from Taiwan as *Diergasilus kasaharai* (Lin & Ho 1998a), which is currently placed in the genus *Thersitina* (Ohtsuka et al. 2004). The names (Chi-gu and Hu-nei) of the first and second collection localities were reported as “Chiku Village” and “Hu-Nei Village”, respectively (Lin & Ho 1998a).

Family **Iveidae** Tung, Cheng, Lin, Ho, Kuo, Yu & Su, 2014

Taxon involved: 1 species in 1 genus
(1 sp. in *Ive*)

***Ive ptychoderae* Tung, Cheng, Lin, Ho, Kuo, Yu & Su, 2014 (M)**

Host: *Ptychodera flava* (acorn worm); Site: genital wings or branchial region; Locality: Chito; References: Tung et al. (2014), Cheng et al. (2023).

Remarks: Tung et al. (2014) created Iveidae as a new family to accommodate this species.

Family **Lernaeidae** Cobbold, 1879

Taxa involved: 2 species in 1 genus
(2 spp. in *Lernaea*)

***Lernaea cyprinacea elegans* Leigh-Sharpe, 1925 (F)**

Hosts: *Carassius auratus* (1–3), *Cyprinus carpio* (1, 2) (teleosts); Site: not reported; Localities: 1, Tsupei propagational ponds of Taiwan Fisheries Research Institute; 2, experimental fish ponds of Institute of Fishery Biology; 3, aquaria in Tainan; References: Ho (1961), Chien (1994).

Remarks: This copepod was reported by Chien (1994) as *Lernaea cyprinacea* from Taiwan.

***Lernaea parasiluri* Yü, 1938 (F)**

Hosts: *Aphyocypris moltrechti* (reported as *Pararasbora moltrechti*), *Ctenopharyngodon idella* (reported as *C. idellus*), *Hypophthalmichthys molitrix*, *Hypophthalmichthys nobilis* (teleosts); Sites: body surface (belly, chin, bases of fins, fins, caudal peduncle), oral cavity, gill arch; Locality: experimental fish ponds of Institute of Fishery Biology; Reference: Ho (1961).

***Lernaea* sp. (F)**

Host: *Anguilla japonica* (teleost); Site: oral cavity; Localities: Dayuan, Chu-pei; Reference: Hsiao & Chen (1977).

Family **Macrochironidae** Humes & Boxshall, 1996

Taxon involved: 1 species in 1 genus
(1 sp. in *Pseudomacrochiron*)

***Pseudomacrochiron pocilloporae* Kim, 2004 (M)**

Host: *Pocillopora damicornis* (hard coral); Site: surface of colony (from washings); Locality: Nan-wan Bay; Reference: Cheng et al. (2016b).

Remarks: The collection locality was reported as “Nanwan” Bay (Cheng et al. 2016b).

Family **Myicolidae** Yamaguti, 1936

Taxa involved: 3 species in 2 genera
(1 sp. in *Myicola*; 2 spp. in *Ostrincola*)

***Myicola formosanus* Lin & Ho, 1999 (M)**

Hosts: *Cyclina sinensis* (bivalve); Site: unknown (from washings); Locality: Bu-dai; Reference: Lin & Ho (1999).

Remarks: The collection locality was reported as “Bu-Dai” (Lin & Ho 1999).

***Ostrincola koe* Tanaka, 1961 (M)**

Host: *Meretrix lusoria* (bivalve); Site: mantle cavity; Locality: Fang-Yuan Village; Reference: Ho et al. (2012a).

Remarks: The collection locality was also reported as “Fagn-Yuan” Village (Ho et al. 2012a).

***Ostrincola similis* Lin & Ho, 1999 (M)**

Hosts: *Magallana gigas* (reported as *Crassostrea gigas*) (1, 2), *Perna viridis* (1) (bivalves); Site: unknown (from washings); Localities: 1, Bu-dai; 2, Wang-gong; Reference: Lin & Ho (1999).

Remarks: The first and second collection localities were reported as “Bu-Dai” and “Wang-Gong”, respectively (Lin & Ho 1999).

Family **Rhynchomolgidae** Humes & Stock, 1972

Taxon involved: 1 species in 1 genus
(1 sp. in *Wedanus*)

***Wedanus formosanus* Cheng, Ho & Dai, 2008 (M)**

Host: *Goniopora pedunculata* (hard coral); Site: inside polyps; Locality: off Wan-li-tong; Reference: Cheng et al. (2008).

Remarks: The collection locality was also reported as “Wanlitong” (Cheng et al. 2008).

Family **Strepidae** Cheng, Liu & Dai, 2016

Taxon involved: 1 species in 1 genus
(1 sp. in *Strepus*)

***Strepus elongatus* Cheng, Liu & Dai, 2016 (M)**

Host: *Tubastraea coccinea* (hard coral); Site: unknown (from washings); Localities: off Ya-liu, Dou-fu Cape, Wan-li-tong, Tiao-shi; Reference: Cheng et al. (2016c).

Remarks: Cheng et al. (2016c) created *Strepus* and Strepidae as a new genus and a new family, respectively, to accommodate this species. The first, second, third, and fourth collection localities were reported as “off Yaliu”,

“Doufu Cape”, “Wanlitong”, and “Tiaoshi”, respectively (Cheng et al. 2016c).

Family **Taeniacanthidae** Wilson, 1911

Taxa involved: 23 species in 7 genera

(1 sp. in *Cirracanthus*; 2 spp. in *Irodes*; 2 spp.

in *Makrostromos*; 2 spp. in *Metataeniacanthus*; 3 spp.

in *Pseudotaeniacanthus*; 12 spp. in *Taeniacanthus*; 1 sp.

in *Taeniastrotos*)

***Cirracanthus longus* Ho & Lin, 2012 (M)**

Hosts: *Halieutaea fitzsimonsi* (1, 2), *Halieutaea stellata* (2) (teleosts); Site: gill cavity; Localities: 1, Da-hsi Fishing Port; 2, Geh-tze-riau Fishing Port; Reference: Ho & Lin (2012a).

Remarks: The first and second collection localities were reported as “Dahsi” Fishing Port and “Geh-Tze-Riau” Fishing Port (Ho & Lin 2012a).

***Irodes parupenei* Ho & Lin, 2007 (M)**

Hosts: *Parupeneus multifasciatus*, *Parupeneus spilurus* (teleosts); Site: nasal cavity; Locality: Ma-gong Fishing Port; Reference: Ho & Lin (2007b).

***Irodes upenei* (Yamaguti, 1954) (M)**

Hosts: *Parupeneus chrysopleuron* (1), *Parupeneus pleurostigma* (1), *Parupeneus spilurus* (2) (teleosts); Sites: nasal cavity, gills; Localities: 1, Tai-dong Fishing Port; 2, Ma-gong Fishing Port; Reference: Ho & Lin (2007c).

***Makrostromos acuminatus* Ho & Lin, 2006 (M)**

Host: *Gymnothorax favagineus* (teleost); Site: gills; Locality: Dong-gang Fishing Port; Reference: Ho & Lin (2006b).

Remarks: Ho & Lin (2006b) created *Makrostromos* as a new genus to accommodate this species. The collection locality was reported as “Dong-Gang” Fishing Port (Ho & Lin 2006b).

***Makrostromos hamus* Ho & Lin, 2006 (M)**

Host: *Gymnothorax favagineus* (teleost); Site: gills; Locality: Dong-gang Fishing Port; Reference: Ho & Lin (2006b).

Remarks: The collection locality was reported as “Dong-Gang” Fishing Port (Ho & Lin 2006b).

***Metataeniacanthus aquilonius* Cressey & Cressey, 1979 (M)**

Host: *Synodus macrops* (teleost); Site: gills; Locality: Taiwan Strait; Reference: Cressey & Cressey (1979).

Remarks: The collection locality was reported as “Formosa Strait” (Cressey & Cressey, 1979).

***Metataeniacanthus synodi* Pillai, 1963 (M)**

Hosts: *Saurida elongata* (1), *Trachinocephalus myops* (1, 2) (teleosts); Site: gills; Localities: 1, Sheng-dah Fishing Port; 2, Taiwan Strait; References: Cressey & Cressey

(1979), Ho & Lin (2007c).

Remarks: The first and second collection localities were reported as “Sheng-Dah” Fishing Port (Ho & Lin 2007c) and “Formosa Strait” (Cressey & Cressey 1979), respectively.

***Pseudotaeniacanthus conspicuus* Lin & Ho, 2008 (M)**

Host: *Gymnothorax favagineus* (teleost); Site: gills; Localities: Dong-gang Fishing Port, Tai-dong Fishing Port; Reference: Lin & Ho (2008b).

Remarks: The first and second collection localities were reported as “Dong-Gang” Fishing Port and “Tai-Dong” Fishing Port, respectively (Lin & Ho 2008b).

***Pseudotaeniacanthus dentiferus* Lin & Ho, 2008 (M)**

Host: *Gymnothorax favagineus* (teleost); Site: gills; Localities: Dong-gang Fishing Port, Tai-dong Fishing Port; Reference: Lin & Ho (2008b).

Remarks: The first and second collection localities were reported as “Dong-Gang” Fishing Port and “Tai-Dong” Fishing Port (Lin & Ho 2008b).

***Pseudotaeniacanthus similis* Lin & Ho, 2008 (M)**

Host: *Gymnothorax favagineus* (teleost); Site: gills; Locality: Dong-gang Fishing Port; Reference: Lin & Ho (2008b).

Remarks: The collection locality was reported as “Dong-Gang” Fishing Port (Lin & Ho 2008b).

***Taeniacanthus acanthocepholae* Yamaguti, 1939 (M)**

Host: *Acanthocephala limbata* (teleost); Site: gills; Localities: Da-hsi Fishing Port, Dong-gang Fishing Port; Reference: Lin & Ho (2006b).

***Taeniacanthus aluteri* (Avdeev, 1977) (M)**

Host: *Abalistes stellatus* (teleost); Site: gill cavity; Locality: Tai-dong Fishing Port; Reference: Ho & Lin (2007c).

***Taeniacanthus anguillaris* (Devi & Shyamasundari, 1980) (M)**

Host: *Plotosus lineatus* (teleost); Sites: gills, gill cavity; Localities: Sheng-dah Fishing Port, Dong-shi Fishing Port; Reference: Lin & Ho (2006b).

Remarks: The second collection locality was reported as “Dong-hsi” Fishing Port (Lin & Ho 2006b).

***Taeniacanthus balistae* (Claus, 1864) (M)**

Host: *Aluterus monoceros* (teleost); Site: gills; Localities: Ma-gong Fishing Port, Dong-shi Fishing Port; Reference: Lin & Ho (2006b).

***Taeniacanthus glomeratus* Dojiri & Cressey, 1987 (M)**

Hosts: *Cirripectes filamentosus* (2), *Cirripectes imitator* (1) (teleosts); Site: not reported; Localities: 1, near Chuan-fan Rock; 2, west side of peninsula at Yeh-liu; Reference:

Dojiri & Cressey (1987).

Remarks: The name (Ch'uan-Fan-Shih) reported by Dojiri & Cressey (1987) for the first collection locality is old and its current name is shown here. The name (Yeh-liu) of the second collection locality was reported as "Yeh-Liu" (Dojiri & Cressey 1987).

***Taeniacanthus lagocephali* Pearse, 1952 (M)**

Hosts: *Lagocephalus gloveri*, *Lagocephalus wheeleri* (teleosts); Site: gill cavity; Locality: Sheng-dah Fishing Port; Reference: Lin & Ho (2006b).

***Taeniacanthus miles* (Pillai, 1962) (M)**

Host: *Scorpaenopsis diabolus* (teleost); Site: gill cavity; Locality: Tai-dong Fishing Port; Reference: Ho et al. (2007a).

Remarks: The collection locality was reported as "Tai-Dong" Fishing Port (Ho et al. 2007a).

***Taeniacanthus neopercis* Yamaguti, 1939 (M)**

Hosts: *Parapercis multifasciata* (1), *Parapercis sexfasciata* (1, 2) (teleosts); Site: gills; Localities: 1, Da-hsi Fishing Port; 2, Sheng-dah Fishing Port; Reference: Lin & Ho (2006b).

***Taeniacanthus pollicaris* Dojiri & Cressey, 1987 (M)**

Hosts: *Cirripectes fuscoguttatu* (1), *Cirripectes polyzona* (2) (teleosts); Site: gill cavity; Localities: 1, south of cut between large outstanding rock and Chuan-fan Rock; 2, rocky shore on south side of island off San-shien-tai (north of Cheng-kung); Reference: Dojiri & Cressey (1987).

Remarks: The name (Ch'uan-Fan-Shih) reported by Dojiri & Cressey (1987) for the first collection locality is old and its current name is shown here. The names (San-shien-tai and Cheng-kung) of the second collection locality were reported as "San Shien Tai" and "Cheng Kung", respectively (Dojiri & Cressey 1987).

***Taeniacanthus pterois* Shen, 1957 (M)**

Host: *Pterois antennata* (teleost); Site: gill cavity; Locality: Tai-dong Fishing Port; Reference: Ho & Lin (2007c).

***Taeniacanthus spiniferus* Ho & Lin, 2007 (M)**

Host: *Acanthocephala limbata* (teleost); Site: gills; Localities: Dong-gang Fishing Port, Da-hsi Fishing Port; Reference: Ho & Lin (2007b).

Remarks: The second collection locality was reported as "Dah-hsi" Fishing Port (Ho & Lin 2007b).

***Taeniacanthus williamsi* Dojiri & Cressey, 1987 (M)**

Hosts: *Cirripectes imitator* (1), *Cirripectes polyzona* (2) (teleosts); Sites: gill cavity, pseudobranch; Localities: 1, near Chuan-fan Rock; 2, rocky shore on south side of island off San-shien-tai (north of Cheng-kung); Reference: Dojiri & Cressey (1987).

Remarks: Ho & Lin (2012a: table 2) included *Cir-*

ripectes castaneus as one the Taiwanese hosts of this copepod, but it was not this fish species but *C. imitator* (Dojiri & Cressey 1987: 131). The name (Ch'uan-Fan-Shih) reported by Dojiri & Cressey (1987) for the first collection locality is old and its current name is shown here. The names (San-shien-tai and Cheng-kung) of the second collection locality were reported as "San Shien Tai" and "Cheng Kung", respectively (Dojiri & Cressey 1987).

***Taeniastrotos tragus* Dojiri & Cressey, 1987 (M)**

Hosts: *Lagocephalus gloveri* (1), *Nemipterus* sp. (reported as *N. mulloides*) (2), *Trachinocephalus myops* (3) (teleosts); Sites: body surface, gills; Localities: 1, Sheng-dah Fishing Port; 2, not reported; 3, Dong-shi Fishing Port; References: Dojiri & Cressey (1987), Ho & Lin (2007c).

Remarks: Although the host fish (*N. mulloides*) recorded by Dojiri & Cressey (1987) was regarded as *N. bipunctatus* by Ho & Lin (2007c), the latter species does not occur in Taiwanese waters (Russell 1993, Froese & Pauly 2024). Thus, the fish recorded by Dojiri & Cressey (1987) is reported here as *Nemipterus* sp. Ho & Lin (2007c) misspelled *N. mulloides* as "*N. bulloides*".

Family **Xarifidae** Humes, 1960

Taxa involved: 32 species in 4 genera

(1 sp. in *Botegokika*; 1 sp. in *Lipochrus*; 1 sp. in *Orstomella*; 29 spp. in *Xarifia*)

***Botegokika faviae* (Ho, Cheng & Dai, 2010) (M)**

Host: *Dipsastraea favus* (reported as *Favia favus*) (hard coral); Site: polyps; Locality: Wan-li-tong; Reference: Ho et al. (2010).

Remarks: Ho et al. (2010) created *Hastatus* as a new genus to accommodate this species, but the genus had been preoccupied (Ho et al. 2013b). Thus, *Botegokika* was newly proposed as a replacement generic name for *Hastatus* (Ho et al. 2013b). The collection locality was reported as "Wanlitong" (Ho et al. 2010).

***Lipochrus acroporinus* Humes & Dojiri, 1982 (M)**

Host: *Acropora hyacinthus* (hard coral); Site: fragments (from washings); Locality: Wan-li-tong; Reference: Zhuang et al. (2022).

Remarks: The collection locality was reported as "Wanlitong" (Zhuang et al. 2022).

***Orstomella yaliuensis* Cheng, Ho & Dai, 2009 (M)**

Host: *Porites lutea* (hard coral); Site: inside gastrovascular cavity; Locality: off Ya-liu; Reference: Cheng et al. (2009).

Remarks: The name (Ya-liu) of the collection locality was reported as "Yaliu" (Cheng et al. 2009).

***Xarifia angusta* Cheng & Chan, 2018 (M)**

Host: *Fimbriaphyllia ancora* (reported as *Euphyllia ancora*) (hard coral); Site: fragments (from washings); Locality: Tiao-shi; Reference: Cheng & Chan (2018).

Remarks: The collection locality was reported as “Tiaoshi” (Cheng & Chan 2018).

***Xarifia anopla* Humes & Dojiri, 1982 (M)**

Hosts: *Montipora venosa* (1), *Montipora efflorescen* (2) (hard corals); Site: fragments (from washings); Localities: 1, Hou-bi-hu; 2, Chin-wan; Reference: Cheng (2018).

Remarks: The first and second collection localities were reported as “Houbihu” and “Chinwan”, respectively (Cheng 2018).

***Xarifia capillata* Cheng, Ho & Dai, 2011 (M)**

Host: *Pavona explanulata* (hard coral); Site: inside polyps (from washings); Locality: off Yen-liao; Reference: Cheng et al. (2011a).

Remarks: The name (Yen-liao) of the collection locality was reported as “Yenliao” (Cheng et al. 2011a).

***Xarifia comata* Humes, 1962 (M)**

Host: *Pocillopora verrucosa* (hard coral); Site: fragments or whole colonies (from washings); Locality: outlet of Third Nuclear Power Plant in Pingtung; Reference: Ho et al. (2008a).

***Xarifia conrepta* Cheng & Lin, 2021 (M)**

Host: *Psammocora digitata* (hard coral); Site: fragments (from washings); Locality: Ye-liu; Reference: Cheng & Lin (2021).

Remarks: The collection locality was reported as “Yeliu” (Cheng & Lin 2021).

***Xarifia diminuta* Humes & Ho, 1967 (M)**

Host: *Psammocora digitata* (hard coral); Site: fragments (from washings); Locality: Ye-liu; Reference: Cheng & Lin (2021).

Remarks: The collection locality was reported as “Yeliu” (Cheng & Lin 2021).

***Xarifia dongshensis* Cheng & Dai, 2018 (M)**

Host: *Galaxea fascicularis* (hard coral); Site: fragments (from washings); Locality: Dong-sha Atoll; Reference: Cheng & Dai (2018).

Remarks: The collection locality was reported as “Dong-sha atoll” (Cheng & Dai 2018).

***Xarifia fimbriata* Humes, 1960 (M)**

Hosts: *Pocillopora damicornis* (1, 2), *Seriatopora calindrum* (3) (hard corals); Site: fragments or whole colonies (from washings); Localities: 1, Tiao-shi; 2, Nan-wan Bay; 3, Tou-fu-chia; References: Ho et al. (2008a), Cheng et al. (2016b).

Remarks: The second collection locality was reported as “Nanwan” Bay (Cheng et al. 2016b).

***Xarifia fissilis* Humes, 1985 (M)**

Host: *Pocillopora damicornis* (hard coral); Site: frag-

ments or whole colonies (from washings); Localities: Tou-fu-chia, Tiao-shi, Ye-liu, Nan-wan Bay; References: Ho et al. (2008a), Cheng & Dai (2010), Cheng et al. (2016b).

Remarks: The third and fourth collection localities were reported as “Yeliu” (Ho et al. 2008a) and “Nanwan” Bay (Cheng & Dai 2010, Cheng et al. 2016b), respectively.

***Xarifia gracilipes* Humes & Dojiri, 1983 (M)**

Host: *Fimbriaphyllia ancora* (reported as *Euphyllia ancora*) (hard coral); Site: fragments (from washings); Locality: Lyu-dao; Reference: Cheng & Chan (2018).

Remarks: The collection locality was reported as “Lyudao” (Cheng & Chan 2018).

***Xarifia gracilis* Cheng & Lin, 2021 (M)**

Host: *Psammocora digitata* (hard coral); Site: fragments (from washings); Locality: Ye-liu; Reference: Cheng & Lin (2021).

Remarks: The collection locality was reported as “Yeliu” (Cheng & Lin 2021).

***Xarifia imparilis* Humes, 1985 (M)**

Host: *Pocillopora damicornis* (hard coral); Site: fragments (from washings); Locality: Nan-wan Bay; Reference: Cheng et al. (2016b).

Remarks: The collection locality was reported as “Nanwan” Bay (Cheng et al. 2016b).

***Xarifia insolita* Cheng, Ho & Dai, 2007 (M)**

Host: *Tubastraea aurea* (hard coral); Site: fragments or whole colonies (from washings); Localities: Hou-bi-hu, Tiao-shi; Reference: Cheng et al. (2007).

Remarks: The species name (*insolita*) was misspelled as “*insolitus*” in the description of this copepod (Cheng et al. 2007: 1136). The first and second collection localities were reported as “Houbihu” and “Tiaoshi”, respectively (Cheng et al. 2007).

***Xarifia jugalis* Humes, 1985 (M)**

Host: *Pocillopora damicornis* (hard coral); Site: fragments (from washings); Localities: Tou-fu-chia, Nan-wan Bay; References: Cheng (2011), Cheng et al. (2016b).

Remarks: The second collection locality was reported as “Nanwan” Bay (Cheng et al. 2016b).

***Xarifia lata* Cheng & Lin, 2021 (M)**

Host: *Psammocora digitata* (hard coral); Site: fragments (from washings); Locality: Ye-liu; Reference: Cheng & Lin (2021).

Remarks: The collection locality was reported as “Yeliu” (Cheng & Lin 2021).

***Xarifia longa* Cheng, Ho & Dai, 2007 (M)**

Host: *Porites latistellata* (reported as *P. latistella* [sic]) (hard coral); Site: fragments or whole colonies (from washings); Locality: outlet of Third Nuclear Power Plant, Ping-

tung; Reference: Cheng et al. (2007).

***Xarifia lyudaoensis* Cheng & Chan, 2018 (M)**

Host: *Euphyllia glabrescens* (hard coral); Site: fragments (from washings); Locality: Lyu-dao; Reference: Cheng & Chan (2018).

Remarks: The collection locality was reported as “Lyudao” (Cheng & Chan 2018).

***Xarifia magnifica* Cheng, Lu & Ding, 2021 (M)**

Host: *Psammocora columna* (hard coral); Site: fragments (from washings); Locality: Long-don; Reference: Cheng et al. (2021b).

Remarks: The collection locality was reported as “Longdon” (Cheng et al. 2021b).

***Xarifia obesa* Humes & Ho, 1968 (M)**

Host: *Stylophora pistillata* (reported as *S. pistillata* [sic]) (hard coral); Site: fragments or whole colonies (from washings); Locality: Long-dong; Reference: Ho et al. (2008a).

Remarks: The collection locality was reported as “Longdon” (Ho et al. 2008a).

***Xarifia parva* Cheng, Ho & Dai, 2011 (M)**

Host: *Pavona explanulata* (hard coral); Site: inside polyps (from washings); Locality: off Yen-liao; Reference: Cheng et al. (2011a).

Remarks: The name (Yen-liao) of the collection locality was reported as “Yenliao” (Cheng et al. 2011a).

***Xarifia pavonae* Cheng, Ho & Dai, 2011 (M)**

Host: *Pavona explanulata* (hard coral); Site: inside polyps (from washings); Locality: off Yen-liao; Reference: Cheng et al. (2011a).

Remarks: The name (Yen-liao) of the collection locality was reported as “Yenliao” (Cheng et al. 2011a).

***Xarifia quinaris* Humes, 1985 (M)**

Host: *Pocillopora damicornis* (hard coral); Site: fragments (from washings); Localities: Tiao-shi, Hou-bi-hu, Nan-wan Bay; References: Cheng (2011), Cheng et al. (2016b).

Remarks: The first, second, and third collection localities were reported as “Tiaoshi”, “Houbihu” (Cheng 2011), and “Nanwan” Bay (Cheng et al. 2016b).

***Xarifia sectilis* Humes, 1985 (M)**

Host: *Pocillopora damicornis* (hard coral); Site: fragments or whole colonies (from washings); Localities: Tou-fu-chia, Ye-liu, Wan-li-tong, Nan-wan Bay; References: Ho et al. (2008a), Cheng et al. (2016b).

Remarks: The second, third, and fourth collection localities were reported as “Yeliu”, “Wanlitong” (Ho et al. 2008a), and “Nanwan” Bay (Cheng et al. 2016b).

***Xarifia serrata* Humes, 1962 (M)**

Host: *Pocillopora damicornis* (hard coral); Site: fragments (from washings); Locality: Nan-wan Bay; Reference: Cheng et al. (2016b).

Remarks: The collection locality was reported as “Nanwan” Bay (Cheng et al. 2016b).

***Xarifia taiwanensis* Cheng, Ho & Dai, 2011 (M)**

Host: *Pavona explanulata* (hard coral); Site: inside polyps (from washings); Locality: off Yen-liao; Reference: Cheng et al. (2011a).

Remarks: The name (Yen-liao) of the collection locality was reported as “Yenliao” (Cheng et al. 2011a).

***Xarifia temnura* Humes and Ho, 1968 (M)**

Host: *Montipora* sp. (hard coral); Site: fragments (from washings); Locality: Tiao-shi; Reference: Zhuang et al. (2022).

Remarks: The collection locality was reported as “Tiaohi” (Zhuang et al. 2022).

***Xarifia tumorisa* Misaki, 1978 (M)**

Hosts: *Acropora hyacinthus* (1), *Acropora millepora* (2) (hard corals); Site: fragments (from washings); Localities: 1, Wan-li-tong; 2, Tiao-shi; Reference: Zhuang et al. (2022).

Remarks: The first and second collection localities were reported as “Wanlitong” and “Tiaohi”, respectively (Zhuang et al. 2022).

***Xarifia umbonata* Humes, 1985 (M)**

Host: *Seriatopora caliendrum* (hard coral); Site: fragments or whole colonies (from washings); Locality: Tou-fu-chia; Reference: Ho et al. (2008a).

***Xarifia yanliaoensis* Cheng, Lu & Ding, 2021 (M)**

Host: *Psammocora columna* (hard coral); Site: fragments (from washings); Localities: Long-don, Yan-liao; Reference: Cheng et al. (2021b).

Remarks: The first and second collection localities were reported as “Longdon” and “Yan-liao”, respectively (Cheng et al. 2021b).

***Xarifia* sp. (M)**

Host: *Pocillopora damicornis* (hard coral); Site: fragments (from washings); Locality: Nan-wan Bay; Reference: Cheng et al. (2016b).

Remarks: The collection locality was reported as “Nanwan” Bay (Cheng et al. 2016b).

Order **Siphonostomatoida** Burmeister, 1835

Taxa involved: 115 species in 32 genera belonging to 10 families

Family **Asterocheridae** Giesbrecht, 1899

Taxa involved: 2 species in 1 genus
(2 spp. in *Asteropontius*)

***Asteropontius minutus* Kim, 2003 (M)**

Host: *Pocillopora damicornis* (hard coral); Site: fragments (from washings); Locality: Nan-wan Bay; Reference: Cheng et al. (2016b).

Remarks: The collection locality was reported as “Nanwan” Bay (Cheng et al. 2016b).

***Asteropontius dissimilis* Kim, 2003 (M)**

Host: *Pocillopora damicornis* (hard coral); Site: fragments (from washings); Locality: Nan-wan Bay; Reference: Cheng et al. (2016b).

Remarks: The collection locality was reported as “Nanwan” Bay (Cheng et al. 2016b).

Family **Caligidae** Burmeister, 1835

Taxa involved: 78 species in 12 genera
(3 spp. in *Anuretes*; 1 sp. in *Caligodes*; 58 spp. in *Caligus*;
2 spp. in *Euryphorus*; 2 spp. in *Gloiopotes*; 1 sp.
in *Hermilius*; 5 spp. in *Lepeophtheirus*; 1 sp. in *Mappates*;
1 sp. in *Paralebion*; 2 spp. in *Parapetalus*; 1 sp.
in *Pseudanuretes*; 1 sp. in *Synestius*)

***Anuretes branchialis* Rangnekar, 1953 (M)**

Hosts: *Monodactylus argenteus* (1), *Platax orbicularis* (2) (teleosts); Sites: gill cavity, gill arches, floor of oral cavity; Localities: 1, Dong-shi Fishing Port; 2, Nan-fang-aw Fishing Port; References: Lin & Ho (2002a), Ho & Lin (2004b).

Remarks: The first collection locality was reported as “Dong-Shi” Fishing Port (Lin & Ho 2002a).

***Anuretes grandis* Ho & Lin, 2000 (M)**

Hosts: *Diagramma pictum* (1, 2), *Thryssa hamiltonii* (2) (teleosts); Site: gills; Localities: 1, Mi-tuo Fishing Port; 2, Dong-shi Fishing Port; References: Ho & Lin (2000, 2004b).

Remarks: Although Ho & Lin (2004b) indicated “*Plecto-rhinchus cinctus*” as a synonym of *Diagramma pictum*, it is not true (Froese & Pauly 2024) and thus *P. cinctus* is not included here. The first collection locality was reported as “Mi-Tuo” Fishing Port (Ho & Lin 2000).

***Anuretes quadrilaterus* Shiino, 1954 (M)**

Host: *Zenopsis nebulosa* (reported as *Z. nebulosus*) (teleost); Site: surface of head near gill cavity; Locality: Da-hsi Fishing Port; References: Ho & Lin (2003c, 2004b).

Remarks: The collection locality was reported as “Da-Hsi” Fishing Port (Ho & Lin 2003c).

***Caligodes laciniatus* (Krøyer, 1863) (M)**

Hosts: *Tylosurus crocodilus* (reported as *T. c. crocodilus*) (1), *Tylosurus melanotus* (reported as *T. acus melanotus*) (2) (teleosts); Sites: gill arches, floor of oral cavity, gill cavity; Localities: 1, Dong-shi Fishing Port; 2, Mi-tuo Fishing Port; References: Lin & Ho (2002a), Ho & Lin (2004b).

Remarks: The first and second collection localities were reported as “Dong-Shi” Fishing Port and “Mi-Tuo” Fishing Port (Lin & Ho 2002a).

***Caligus absens* Ho, Lin & Chen, 2000 (M)**

Hosts: *Centroberyx rubricaudus* (1), *Priacanthus blochii* (reported as *P. blochi* [sic]) (2), *Priacanthus macracanthus* (1–4) (teleosts); Sites: gill cavity, oral cavity; Localities: 1, Da-hsi Fishing Port; 2, Sheng-dah Fishing Port; 3, Dong-shi Fishing Port; 4, Zi-guan Fishing Port; References: Ho et al. (2000), Ho & Lin (2004b), Cheng et al. (2021a).

Remarks: The second and fourth collection localities were reported as “Sheng-Dah” Fishing Port (Ho et al. 2000) and “Ziguan” Fishing Port (Cheng et al. 2021a).

***Caligus acanthopagri* Lin, Ho & Chen, 1994 (M)**

Hosts: *Acanthopagrus latus* (1, 3), *Acanthopagrus schlegelii* (reported as *A. schlegeli* [sic]) (1–4, 6), *Epinephelus malabaricus* (1), *Oreochromis mossambicus* (1, 3), *Scatophagus argus* (1, 5), *Thryssa hamiltonii* (6) (teleosts); Sites: body surface, gill cavity; Localities: 1, unspecified salt and/or brackish water culture ponds; 2, culture pond at Tainan Branch of Taiwan Fisheries Research Institute in Chi-gu; 3, salt water culture ponds in Chi-gu; 4, salt water culture ponds in Bei-men; 5, salt water culture ponds in Peng-hu; 6, Dong-shi Fishing Port; References: Lin et al. (1994), Lin & Ho (1998b, c), Ho (2004), Ho & Lin (2004b).

Remarks: The name (Chi-gu) of the first collection locality was reported as “Chi-Ku Village” (Lin et al. 1994, Lin & Ho 1998b).

***Caligus alaihi* Lewis, 1968 (M)**

Hosts: *Ablennes hians*, *Sargocentron melanospilos* (teleosts); Site: gill cavity; Locality: Tai-dong Fishing Port; Reference: Ho & Lin (2010a).

***Caligus amblygenitalis* Pillai, 1961 (M)**

Hosts: *Mene maculata* (1), *Trichiurus lepturus* (2) (teleosts); Sites: gill cavity, oral cavity; Localities: 1, Da-hsi Fishing Port; 2, Dong-shi Fishing Port; References: Ho & Lin (2003b, 2004b).

Remarks: Although Ho & Lin (2004b) reported “*Trichiurus japonicus*” as a host of this copepod and as a synonym of *T. lepturus*, the former taxon is not included here because there is no record of the copepod from *T. japonicus* in Taiwan. The first collection locality was reported as “Da-Hsi” Fishing Port (Ho & Lin 2003b).

***Caligus arii* Bassett-Smith, 1898 (M)**

Host: *Trichiurus lepturus* (teleost); Site: body surface; Dong-shi Fishing Port; Reference: Ho et al. (2007c).

***Caligus asymmetricus* Kabata, 1965 (M)**

Hosts: *Auxis rochei* (1), *Euthynnus affinis* (1), *Scomberomorus commerson* (reported as *S. commersoni*) (2), *Thunnus albacares* (3) (teleosts); Sites: gills, gill cavity; Localities: 1, Dong-shi Fishing Port; 2, Mi-tuo Fishing Port; 3, Dong-gang Fishing Port; References: Lin & Ho (2001), Ho & Lin (2004b).

Remarks: The first collection locality was reported as “Tung-Shih” Fishing Port (Lin & Ho 2001).

***Caligus bonito* Wilson, 1905 (M)**

Hosts: *Euthynnus affinis* (1), *Katsuwonus pelamis* (1), *Sarda orientalis* (2) (teleosts); Sites: gills, gill cavity, oral cavity, body surface; Localities: 1, Dong-shi Fishing Port; 2, Da-hsi Fishing Port; References: Lin & Ho (2001, 2002b), Ho & Lin (2004b).

Remarks: The first and second collection localities were reported as “Tung-Shih” Fishing Port (Lin & Ho 2001) and “Dah-Hsi” Fishing Port (Lin & Ho 2002b), respectively.

***Caligus callyodon* Prabha & Pillai, 1986 (M)**

Hosts: *Scarus psittacus*, *Scarus rubroviolaceus* (teleosts); Site: gill cavity; Locality: off Tai-dong; Reference: Lin & Ho (2007).

Remarks: The name (Tai-dong) of the collection locality was reported as “Tai-Dong” (Lin & Ho 2007).

***Caligus calotomi* Shiino, 1954 (M)**

Hosts: *Megalaspis cordyla*, *Sarda orientalis* (teleosts); Site: body surface; Locality: off Tai-dong; Reference: Lin & Ho (2007).

Remarks: The name (Tai-dong) of the collection locality was reported as “Tai-Dong” (Lin & Ho 2007).

***Caligus chiastos* Lin & Ho, 2003 (M)**

Hosts: *Caranx sexfasciatus*, *Otolithes ruber*, *Pelates quadrilineatus*, *Plectorhinchus cinctus* (teleosts); Site: gill cavity; Locality: Dong-shi Fishing Port; References: Lin & Ho (2003), Ho & Lin (2004b).

Remarks: The collection locality was reported as “Dong-Hsih” Fishing Port (Lin & Ho 2003).

***Caligus clavatus* Kirtisinghe, 1964 (M)**

Host: *Sphyræna japonica* (teleost); Site: gill cavity; Locality: Dong-shi Fishing Port; References: Lin & Ho (2002a), Ho & Lin (2004b).

Remarks: The collection locality was reported as “Dong-Shi” Fishing Port (Lin & Ho 2002a).

***Caligus confusus* Pillai, 1961 (M)**

Hosts: *Caranx ignobilis* (1), *Caranx melampygus* (1), *Caranx sexfasciatus* (3), *Elagatis bipinnulata* (reported

as *E. bipinnulatus*) (2, 3), *Seriola dumerili* (4) (teleosts); Sites: gill cavity, body surface; Localities: 1, Mi-tuo Fishing Port; 2, Dong-shi Fishing Port; 3, Dong-gang Fishing Port; 4, Da-hsi Fishing Port; References: Ho & Lin (2001a, 2004b).

Remarks: The first, second, and fourth collection localities were reported as “Mi-Tou” Fishing Port, “Tung-Shih” Fishing Port (Ho & Lin 2001a), and “Dah-hsi” (Ho & Lin 2004b), respectively.

***Caligus cookeoli* Ho & Lin, 2010 (M)**

Hosts: *Cookeolus japonicus*, *Priacanthus sagittarius* (teleosts); Site: gill cavity; Locality: Cheng-gong Fishing Port; Reference: Ho & Lin (2010a).

***Caligus cordyla* Pillai, 1963 (M)**

Host: *Megalaspis cordyla* (Linnaeus, 1758) (teleost); Site: gill cavity; Locality: Dong-shi Fishing Port; References: Ho & Lin (2001a, 2004b).

Remarks: The collection locality was reported as “Tong-Shih” Fishing Port (Ho & Lin 2001a).

***Caligus coryphaenae* Steenstrup & Lütken, 1861 (M)**

Host: *Coryphaena hippurus* (teleost); Sites: body surface gill cavity, oral cavity; Locality: Nan-fang-aw Fishing Port; References: Ho (1963), Ho & Lin (2004b).

Remarks: The collection locality was reported as “Nangfangao” (Ho 1963).

***Caligus cultellus* Özak, Kurt, Kamanli, Akbulut, Yanar & Boxshall, 2024 (M)**

Host: *Trichiurus lepturus* (teleost); Sites: oral cavity, gill cavity; Localities: Taiwan Strait, Dong-shi Fishing Port; References: Ho & Lin (2002a, 2004b).

Remarks: This copepod was reported from Taiwan as *Metacaligus latus* (Ho & Lin 2002a, 2004b), which is currently regarded as a junior synonym of *C. cultellus* (Özak et al. 2024). The first and second collection localities were reported as “Strait of Taiwan” and “Dong-Shih” Fishing Port, respectively (Ho & Lin 2002a).

***Caligus cybii* Basset-Smith, 1898 (M)**

Host: *Scomberomorus commerson* (teleost); Sites: gills, gill cavity; Locality: Mi-tuo Fishing Port; Reference: Ho & Lin (2004b).

***Caligus dactylopteni* Uma Devi & Shyamasundari, 1981 (M)**

Host: *Dactyloptena peterseni* (teleost); Site: gills; Locality: Da-hsi Fishing Port; Reference: Ho et al. (2007c).

Remarks: This copepod was reported from Taiwan as *Caligus dactylus* (Ho et al. 2007c), which is currently regarded as a junior synonym of *C. dactylopteni* (Hayes et al. 2012).

***Caligus dasyaticus* Rangnekar, 1957 (M)**

Host: *Hemityrgon navarrae* (reported as *Dasyastis navarrae*) (elasmobranch); Site: body surface; Locality: Dong-shi Fishing Port; Reference: Ho et al. (2007c).

***Caligus digitatus* Ho & Lin, 2003 (M)**

Host: *Thyrsitoides marleyi* (teleost); Sites: gill cavity, oral cavity; Locality: Da-hsi Fishing Port; References: Ho & Lin (2003c, 2004b).

Remarks: The collection locality was reported as “Da-Hsi” Fishing Port (Ho & Lin 2003c).

***Caligus epidemicus* Hewitt, 1971 (M, B)**

Hosts: *Acanthopagrus schlegelii* (reported as *A. schlegeli* [sic]) (2–5), *Chanos chanos* (2, 3), *Epinephelus malabaricus* (2–5), *Lates calcarifer* (2, 3), *Mugil cephalus* (2, 3), *Oreochromis aureus* (reported as *O. aurea*) (2, 3), *Oreochromis* hybrid (2, 3), *Oreochromis mossambicus* (1–4), *Planiliza macrolepis* (reported as *Liza macrolepis*) (2, 3), *Scatophagus argus* (3), *Terapon jarbua* (3), *Trachinotus blochii* (2, 3) (teleosts); Sites: body surface, gill cavity, oral cavity; Localities: 1, salt or brackish water ponds at Tainan Branch of Fisheries Research Institute; 2, salt water culture ponds in Chi-gu; 3, unspecified salt and/or brackish water culture ponds; 4, salt water culture ponds in Beimen; 5, salt water culture ponds in Shin-yuan; References: Lin & Ho (1993, 1998b, c), Lin et al. (1996a), Ho (2004), Ho & Lin (2004b).

Remarks: Although this copepod was collected from the above fish species cultured in Taiwan (Lin & Ho 1993, 1998b, c, Lin et al. 1996a, Ho 2004, Ho & Lin 2004b), it has not yet been reported from Taiwanese wild fishes. The name (Chi-gu) of the second collection locality was reported as “Chi-Ku Village” (Lin & Ho 1998b).

***Caligus epinepheli* Yamaguti, 1936 (M)**

Hosts: *Caranx ignobilis* (1), *Megalaspis cordyla* (1), *Scolopsis vosmeri* (2), *Trachinotus blochii* (1) (teleosts); Sites: gills, body surface, gill cavity; Localities: 1, Dong-shi Fishing Port; 2, Ma-kong Fishing Port in Peng-hu; References: Ho et al. (2000), Ho & Lin (2001a, 2003d, 2004b).

Remarks: Ho & Lin (2004b) did not cite their previous work (Ho & Lin 2001a). The first collection locality was reported “Tung-Shih” Fishing Port (Ho & Lin 2001a). The second collection locality was reported as “Ma-Kong” Fishing Port (Ho et al. 2000) and “Makung” Fishing Port in “Penghu County” (Ho & Lin 2003d). In Ho & Lin (2004b), the collection locality was reported as Peng-hu without fishing port information.

***Caligus equulae* Ho & Lin, 2003 (M)**

Host: *Kaiwarinus equula* (reported as *Carangoides equula*) (teleost); Sites: gill cavity, gill arches, gills; Locality: Da-hsi Fishing Port; References: Ho & Lin (2003b, 2004b).

Remarks: The collection locality was reported as

“Da-Hsi” Fishing Port (Ho & Lin 2003b).

***Caligus fistulariae* Yamaguti, 1936 (M)**

Hosts: *Fistularia commersonii* (1), *Fistularia petimba* (2) (teleosts); Site: gill cavity; Localities: 1, Tai-dong Fishing Port; 2, Mi-tuo Fishing Port; Reference: Ho et al. (2008b).

Remarks: The first and second collection localities were reported as “Tai-Dong” Fishing Port and “Mi-Tuo” Fishing Port (Ho et al. 2008b).

***Caligus fortis* Kabata, 1965 (M)**

Host: *Caranx ignobilis* (teleost); Site: nasal cavity; Locality: off Tai-dong; Reference: Ho & Lin (2007d).

Remarks: The name (Tai-dong) of the collection locality was reported as “Taitung” (Ho & Lin 2007d).

***Caligus glandifer* Shiino, 1954 (M)**

Host: *Fistularia petimba* (teleost); Site: gill cavity; Locality: Tai-dong Fishing Port; Reference: Ho et al. (2008c).

***Caligus hirsutus* Bassett-Smith, 1898 (M)**

Host: *Eleutheronema tetradactylum* (teleost); Site: gill cavity; Localities: Mi-tuo Fishing Port, Dong-shi Fishing Port; References: Lin & Ho (2000), Ho & Lin (2004b).

Remarks: This copepod was reported from Taiwan as *Parapetalus hirsutus* (Lin & Ho 2000, Ho & Lin 2004b), which is currently placed in the genus *Caligus* (Walter & Boxshall 2024a). The first and second collection localities were reported as “Mi-Tuo” Fishing Port and “Tung-Shih” Fishing Port (Lin & Ho 2000).

***Caligus ignotus* Ho & Lin, 2010 (M)**

Host: *Evoxymetopon poeyi* (teleost); Site: gill cavity; Locality: off Tai-dong (Cheng-gong Fishing Port); Reference: Ho & Lin (2010c).

Remarks: The name (Tai-dong) of the collection locality was reported as “Tai-Dong” (Ho & Lin 2010c).

***Caligus inanis* Ho & Lin, 2007 (M)**

Host: *Caranx ignobilis* (teleost); Site: nasal cavity; Locality: off Tai-dong; Reference: Ho & Lin (2007d).

Remarks: The name (Tai-dong) of the collection locality was reported as “Taitung”, and “Taidong” in the description of this copepod (Ho & Lin 2007d: 33, 40).

***Caligus jawahari* Hameed & Adamkutty, 1985 (M)**

Host: *Decapterus kurroides* (teleost); Site: body surface; Locality: Dong-shi Fishing Port; References: Ho & Lin (2001a, 2004b).

Remarks: This copepod was reported from Taiwan as *Caligus* sp. (Ho & Lin 2001a) and later *Caligus kirtiodes* (Ho & Lin 2004b), which is currently regarded as a junior synonym of *C. jawahari* (Hayes et al. 2012). The collection locality was reported as “Tung-Shih” Fishing Port (Ho & Lin 2001a).

***Caligus kanagurta* Pillai, 1961 (M)**

Hosts: *Decapterus kurroides* (1–4), *Paraplagusia bilineata* (5), *Scomber australasicus* (4), *Scomber japonicus* (3, 4) (teleosts); Site: gill cavity; Localities: 1, Sheng-dah Fishing Port; 2, off Keelung; 3, Dong-shi Fishing Port; 4, Da-hsi Fishing Port; 5, Mi-tuo Fishing Port; References: Ho et al. (2000), Ho & Lin (2004b).

Remarks: The first collection locality was reported as “Sheng-Dah” Fishing Port (Ho et al. 2000).

***Caligus kapuhili* Lewis, 1967 (M)**

Hosts: *Chaetodon auripes*, *Chaetodon vagabundus* (teleosts); Site: gills; Locality: off Tai-dong; Reference: Lin & Ho (2007).

Remarks: The name (Tai-dong) of the collection locality was reported as “Tai-Dong” (Lin & Ho 2007).

***Caligus laminatus* (Rangnekar, 1955) (M)**

Host: *Planiliza macrolepis* (reported as *Liza macrolepis*) (teleost); Site: gill cavity; Locality: Dong-shi Fishing Port; References: Lin & Ho (2003), Ho & Lin (2004b).

Remarks: While this copepod was reported as *Pseudocaligus laminatus* (Lin & Ho 2003) from Taiwan, it is currently placed in the genus *Caligus* (Özak et al. 2013). The collection locality was reported as “Dong-Hsih” Fishing Port (Lin & Ho 2003).

***Caligus laticaudus* Shiino, 1960 (M)**

Hosts: *Caranx melampygus* (1), *Lutjanus russellii* (1), *Lutjanus vitta* (2–4), *Parapristipoma trilineatum* (2, 3), *Polydactylus plebeius* (reported as *Polydactylus plebeius*) (5), *Polydactylus sextarius* (4) (teleosts); Site: operculum; Localities: 1, Mi-tuo Fishing Port; 2, Ma-gong Fishing Port; 3, Peng-hu; 4, Dong-shi Fishing Port; 5, Da-hsi Fishing Port; References: Ho et al. (2000), Ho & Lin (2004b).

Remarks: The first collection locality was reported as “Ma-Gong” Fishing Port (Ho et al. 2000).

***Caligus lichiae* Brian, 1906 (M)**

Host: *Seriola dumerili* (teleost); Site: gills; Locality: off Tai-dong; Reference: Lin & Ho (2007).

Remarks: This copepod was reported from Taiwan as *Caligus aesopus* (Lin & Ho 2007), which is currently regarded as a junior synonym of *C. lichiae* (Özak et al. 2019). The name (Tai-dong) of the collection locality was reported as “Tai-Dong” (Lin & Ho 2007).

***Caligus lini* Ho & Cheng, 2016 (M)**

Host: *Eumegistus illustris* (teleost); Sites: gill rakers, caudal fin; Locality: Cheng-gong Fishing Port; Reference: Ho & Cheng (2016).

Remarks: The collection locality was reported as “Cheng-Gong” Fishing Port (Ho & Cheng 2016).

***Caligus longipedis* Basset-Smith, 1898 (M)**

Host: *Megalaspis cordyla* (teleost); Sites: gill cavity,

body surface; Locality: Dong-shi Fishing Port; References: Ho & Lin (2001a, 2004b).

Remarks: The collection locality was reported as “Tung-Shih” Fishing Port (Ho & Lin 2001a).

***Caligus lutjani* Ho & Lin, 2007 (M)**

Hosts: *Lutjanus argentimaculatus* (1), *Lutjanus bohar* (2) (teleosts); Sites: gills, gill cavity; Localities: 1, off Kending; 2, Mi-tuo Fishing Port; Reference: Ho et al. (2007c).

Remarks: The name (Ken-ding) of the first collection locality was reported as “Ken-Ding” and the second collection locality was recorded as Mi-tuo Fishing “Harbor” (Ho et al. 2007c).

***Caligus macrurus* Heller, 1865 (M)**

Host: *Lobotes surinamensis* (teleost); Sites: gills, gill cavity; Locality: Dong-shi Fishing Port; References: Lin & Ho (2002a), Ho & Lin (2004b).

Remarks: This copepod was reported from Taiwan as *Caligus bennetti* (Lin & Ho 2002a, Ho & Lin 2004b), which is currently regarded as a junior synonym of *C. macrurus* (Özak et al. 2017). The collection locality was reported as “Dong-Shi” Fishing Port (Lin & Ho 2002a).

***Caligus nengai* Rangnekar, Rangnekar & Murti, 1953 (M)**

Hosts: *Arius maculatus*, *Caranx sexfasciatus*, *Triacanthus biaculeatus*, *Trichiurus lepturus* (teleosts); Site: operculum; Locality: Dong-shi Fishing Port; References: Ho et al. (2000), Ho & Lin (2004b).

Remarks: The collection locality was reported as “Dong-Shih” Fishing Port (Ho et al. 2000).

***Caligus novocaledonicus* Kabata, 1968 (M)**

Host: *Lethrinus miniatus* (teleost); Site: gills; Locality: off Tai-dong; Reference: Lin & Ho (2007).

Remarks: The name (Tai-dong) of the collection locality was reported as “Tai-Dong” (Lin & Ho 2007).

***Caligus orientalis* Gusev, 1951 (M, B)**

Hosts: *Acanthopagrus latus* (1, 2), *Acanthopagrus schlegelii* (reported as *A. schlegeli* [sic]) (1, 2), *Chanos chanos* (1, 2), *Epinephelus malabaricus* (1, 2), *Lates calcarifer* (1, 2), *Mugil cephalus* (1, 2), *Oreochromis mossambicus* (1–3), *Planiliza macrolepi* (reported as *Liza macrolepis*) (1, 2) (teleosts); Site: body surface; Localities: 1, salt water culture ponds in Chi-gu; 2, unspecified salt and/or brackish water culture ponds; 3, salt water culture ponds in Beimen; References: Lin & Ho (1998b, c), Ho (2004), Ho & Lin (2004b).

Remarks: The name (Chi-gu) of the first collection locality was reported as “Chi-Ku Village” (Lin & Ho 1998b) and “Chih-gu” (Ho & Lin 2004b).

***Caligus oviceps* Shiino, 1952 (M)**

Host: *Siganus fuscescens* (teleost); Site: body surface;

Localities: 1, a hatchery in Peng-hu; 2, unspecified salt and/or brackish water culture ponds; References: Lin et al. (1996b), Lin & Ho (1998c), Ho (2004), Ho & Lin (2004b).

Remarks: The first collection locality was reported as “Penghus Hatchery Station” (Lin et al. 1996b). The occurrence of this copepod on *S. fuscescens* was erroneously typed in Table 1 of Lin & Ho (1998c).

***Caligus pagrosomi* Yamaguti, 1939 (M)**

Hosts: *Arius maculatus*, *Caranx ignobilis*, *Lateolabrax japonicus*, *Lates calcarifer*, *Lobotes surinamensis*, *Lutjanus russellii*, *Miichthys miiuy*, *Trachinotus blochii* (teleosts); Sites: gills, oral cavity; Locality: Dong-shi Fishing Port; References: Ho & Lin (2003d, 2004b).

Remarks: This copepod was reported from Taiwan as *Caligus pagrosomi pagrosomi* (Ho & Lin 2003d, 2004b), which is currently regarded as *C. pagrosomi* (Boxshall & El-Rashidy 2009). The collection locality was reported as “Dongshih” Fishing Port (Ho & Lin 2003d).

***Caligus pampi* Ho & Lin, 2002 (M)**

Host: *Pampus argenteus* (teleost); Sites: body surface, gill cavity; Locality: Dong-shi Fishing Port; References: Ho & Lin (2002b, 2004b).

Remarks: The collection locality was reported as “Dong-Shih” Fishing Port (Ho & Lin 2002b).

***Caligus parapetalopsis* Hameed & Pillai, 1973 (M)**

Host: *Seriolina nigrofasciata* (teleost); Sites: gill cavity, oral cavity; Locality: off Dong-gang (Dong-gang Fishing Port); References: Ho & Lin (2004b, 2010d).

Remarks: This copepod was reported from Taiwan first as *Parapetalus longipennatus* (Ho & Lin 2004b) but later reidentified as *Parapetalus parapetalopsis* (Ho & Lin 2010d), which is currently regarded as a junior synonym of *C. parapetalopsis* (Walter & Boxshall 2024b). See the information on *P. longipennatus* below.

***Caligus patulus* Wilson, 1937 (M)**

Host: *Chanos chanos* (teleost); Site: basal groove of dorsal fin; Locality: Da-hsi Fishing Port; References: Ho & Lin (2003b, 2004b).

Remarks: The collection locality was reported as “Da-Hsi” Fishing Port (Ho & Lin 2003b).

***Caligus planktonis* Pillai, 1985 (M)**

Host: *Planiliza macrolepis* (reported as *Liza macrolepis*) (teleost); Site: below pectoral fin underneath scale; Mi-tuo Fishing Port; References: Ho & Lin (2004a, 2004b).

Remarks: The collection locality was reported as “Mi-Tuo” Fishing Port (Ho & Lin 2004a).

***Caligus polycanthi* Gnanamuthu, 1950 (M)**

Hosts: *Aluterus monoceros* (1), *Aluterus scriptus* (2), *Canthidermis maculata* (reported as *C. maculatus*) (3) (teleosts); Sites: fins, body surface; Localities: 1, Da-hsi

Fishing Port; 2, Keelung; 3, off northeastern coast of Taiwan; References: Ho (1966), Lin & Ho (1997), Ho & Lin (2004b).

Remarks: The first collection locality was reported as “Dah-hsi” (Ho & Lin 2004b).

***Caligus productus* Dana, 1852 (M)**

Hosts: *Acanthocybium solandri* (1), *Alepes djedaba* (2), *Coryphaena hippurus* (1), *Elagatis bipinnulata* (reported as *E. bipinnulatus*) (2), *Katsuwonus pelamis* (2), *Makaira mazara* (3), *Thunnus albacares* (3), *Thunnus obesus* (3) (teleosts); Sites: gills, gill cavity, oral cavity, body surface; Localities: 1, Su-aw Fishing Port; 2, Dong-shi Fishing Port; 3, Dong-gang Fishing Port; References: Lin & Ho (2001), Ho & Lin (2004b).

Remarks: The second collection locality was reported as “Tung-Shih” Fishing port (Lin & Ho 2001).

***Caligus punctatus* Shiino, 1955 (M, B)**

Hosts: *Acanthopagrus latus* (1, 2), *Acanthopagrus schlegelii* (reported as *A. schlegeli* [sic]) (1–3), *Chanos chanos* (1, 2, 4–6), *Epinephelus malabaricus* (1–4), *Lateolabrax japonicus* (1, 2), *Lates calcarifer* (1, 2), *Mugil cephalus* (1, 2, 7), *Oreochromis aureus* (reported as *O. aurea*) (1, 2), *Oreochromis* hybrid (1, 2), *Oreochromis mossambicus* (1, 3), *Planiliza macrolepis* (reported as *Liza macrolepis*) (1, 8), *Rhabdosargus sarba* (reported as *Sparus sarba*) (1, 2), *Terapon jarbua* (1, 2), *Trachinotus blochii* (1, 2, 5) (teleosts); Site: body surface; Localities: 1, salt water culture ponds in Chi-gu; 2, unspecified salt and/or brackish water culture ponds; 3, salt water culture ponds in Bai-men; 4, salt water culture ponds in Yüong-an; 5, salt water culture ponds in Shih-tsao; 6, salt water culture ponds in Dong-shi; 7, salt water culture ponds in Yi-lan; 8, Mi-tuo Fishing Port; References: Lin & Ho (1998b, c), Ho (2004), Ho & Lin (2004b).

Remarks: The name (Chi-gu) of the first collection locality was reported as “Chi-Ku Village” (Lin & Ho 1998b) and “Chih-gu” (Ho & Lin 2004b).

***Caligus quadratus* Shiino, 1954 (M)**

Hosts: *Coryphaena hippurus* (1–3), *Lutjanus russellii* (reported as *L. russelli*) (1), *Thunnus albacares* (4), *Tylosurus melanotus* (reported as *T. acus melanotus*) (2) (teleosts); Sites: gills, oral cavity, gill cavity; Localities: 1, Dong-shi Fishing Port; 2, Da-hsi Fishing Port; 3, Su-aw Fishing Port; 4, Dong-gang Fishing Port; References: Lin & Ho (2001), Ho & Lin (2004b).

Remarks: The first collection locality was reported as “Tung-Shih” Fishing port (Lin & Ho 2001).

***Caligus robustus* Bassett-Smith, 1898 (M)**

Host: *Caranx sexfasciatus* (teleost); Site: gill cavity; Locality: off Tai-dong; Reference: Ho & Lin (2007d).

Remarks: The name (Tai-dong) of the collection locality was reported as “Taitung”, and “Taidong” in the description

of this copepod (Ho & Lin 2007d: 33, 37).

***Caligus schlegeli* Ho & Lin, 2003 (M)**

Hosts: *Acanthopagrus schlegelii* (reported as *A. schlegeli* [sic]) (1, 2), *Megalaspis cordyla* (1), *Mugil cephalus* (1), *Planiliza macrolepis* (reported as *Liza macrolepis*) (1), *Scatophagus argus* (1), *Siganus fuscescens* (1), *Terapon jarbua* (1) (teleosts); Sites: oral cavity, gill cavity, operculum, body surface; Localities: 1, Dong-shi Fishing Port; 2, Mi-tuo Fishing Port; References: Ho & Lin (2003d, 2004b).

Remarks: This copepod was reported from Taiwan as *Caligus pagrosomi* “*schelegeli*” (Ho & Lin 2003b, 2004b), which is currently treated as *C. schlegeli* (Boxshall & El-Rashidy 2009). The first collection locality was reported as “Dongshih” Fishing Port (Ho & Lin 2003d).

***Caligus stromatei* Krøyer, 1863 (M)**

Host: *Pampus argenteus* (teleost); Site: gill cavity; Locality: Dong-shi Fishing Port; Reference: Ho & Lin (2004b).

Remarks: This copepod was reported from Taiwan as *Caligus multispinosus* (Ho & Lin 2004b), which is currently regarded as a junior synonym of *C. stromatei* (Hayes et al. 2012).

***Caligus torpedinis* Heller, 1865 (M, B)**

Hosts: *Acanthopagrus latus* (1, 2, 6), *Acanthopagrus schlegelii* (reported as *A. schlegeli* [sic]) (1–4, 9), *Atropus armatus* (reported as *Carangoides armatus*) (9), *Caranx melampygus* (6), *Caranx sexfasciatus* (9), *Chelidonichthys kumu* (9), *Diagramma pictum* (9), *Drepane punctata* (7), *Ehippus orbis* (9), *Epinephelus amblycephalus* (reported as *E. amblycephalus* [sic]) (8), *Epinephelus malabaricus* (1, 2, 4, 5), *Hapalogenys analis* (reported as *H. mucronatus*) (10), *Hemiramphus lutkei* (9), *Lateolabrax japonicus* (9), *Lates calcarifer* (9), *Lobotes surinamensis* (9), *Lutjanus russellii* (reported as *L. russelii* [sic]) (6), *Lutjanus vitta* (9), *Monodactylus argenteus* (9), *Mugil cephalus* (9), *Nemipterus virgatus* (9), *Oreochromis mossambicus* (2), *Otolithes ruber* (9), *Pelates quadrilineatus* (9), *Pennahia pawak* (9), *Planiliza macrolepis* (reported as *Liza macrolepis*) (2, 6, 9), *Platax teira* (reported as *P. teria* [sic]) (9), *Polydactylus sextarius* (9), *Rhabdosargus sarba* (reported as *Sparus sarba*) (2), *Scatophagus argus* (1, 2, 6), *Scomberoides commersonnianus* (9), *Siganus fuscescens* (9), *Terapon jarbua* (7, 9), *Terapon theraps* (10), *Trichiurus lepturus* (reported as *T. japonicus*) (teleosts); Sites: gills, gill cavity, body surface; Localities: 1, salt water culture ponds in Chi-gu; 2, unspecified salt and/or brackish water culture ponds; 3, salt water culture ponds in Bei-men; 4, salt water culture ponds in Shin-yuan; 5, salt water culture ponds in Dong-gang; 6, Mi-tuo Fishing Port; 7, Sheng-dah Fishing port; 8, Dong-gang Fishing Port; 9, Dong-shi Fishing Port; 10, Da-hsi Fishing Port; References: Lin et al. (1994, 1997), Lin & Ho (1998c), Ho et al. (2000), Ho (2004), Ho & Lin (2001a, 2004b).

Remarks: This copepod was reported from Taiwan first as *Caligus multispinosus* (Lin et al. 1994, 1997, Lin & Ho 1998c) but later reidentified as *C. rotundigenitalis* (Ho et al. 2000, Ho & Lin 2001a, 2004b), which is currently regarded as a junior synonym of *C. torpedinis* (Boxshall & Bernot 2023). Although Ho & Lin (2004b) treated “*Plectorhynchus cinctus*” as a synonym of *Diagramma pictum*, it is not true (Froese & Pauly 2024) and thus *P. cinctus* is not included here. The first, third, sixth, seventh, and ninth collection localities were reported as “Chi-Ku Village” (Lin et al. 1997), “Pei-men Village” (Lin et al. 1994, 1997), “Mi-Tuo” Fishing Port (Ho et al. 2000), “Sheng-Dah” Fishing Port (Ho et al. 2000), and “Tung-Shih” Fishing Port (Ho & Lin 2001a), respectively. In Ho & Lin (2004b), the names (Chi-gu, Shen-dah, and Da-hsi) of three collection localities were also reported as “Chih-gu”, “Shing-Dah”, and “Da-Hsi”, respectively.

***Caligus trichiuri* Krøyer, 1863 (M)**

Hosts: *Lobotes surinamensis* (1), *Trichiurus lepturus* (1, 2) (teleosts); Sites: gills, oral cavity, gill cavity; Localities: 1, Dong-shi Fishing Port; 2, Da-hsi Fishing Port; References: Lin & Ho (2000), Ho & Lin (2004b).

Remarks: This copepod was reported from Taiwan as *Metacaligus uruguayensis* (Lin & Ho 2000, Ho & Lin 2004b), which was later regarded as a junior synonym of *M. trichiuri* (Hayes et al. 2012). However, it is currently placed in the genus *Caligus* (Özak et al. 2024). Although Ho & Lin (2004b) reported “*Trichiurus japonicus*” as a host of this copepod and also a synonym of *T. lepturus*, the former taxon is not included here because there is no record of the copepod from *T. japonicus* in Taiwan. The first collection locality was reported as “Tung-Shih” Fishing Port (Lin & Ho 2000).

***Caligus tylosuri* (Rangnekar, 1956) (M)**

Hosts: *Auxis rochei*, *Euthynnus affinis*, *Tylosurus crocodilus* (reported as *T. c. crocodilus*) (teleosts); Site: body surface; Locality: off Tai-dong; Reference: Lin & Ho (2007).

Remarks: The name (Tai-dong) of the collection locality was reported as “Tai-Dong” (Lin & Ho 2007).

***Euryphorus brachypterus* (Gerstaecker, 1853) (M)**

Hosts: *Coryphaena hippurus* (3), *Eumegistus illustris* (2), *Kajikia audax* (reported as *Tetrapterus audax*) (3), *Thunnus albacares* (reported as *T. albacare*) (3), *Thunnus obesus* (3) (teleosts); Site: body surface; Localities: 1, Su-au Fishing Port; 2, Tai-dong Fishing Port; 3, Dong-gang Fishing Port; References: Ho et al. (2008b), Ho & Lin (2010b).

Remarks: The first, second, and third collection localities were reported as “Su-Au” Fishing Port, “Dong-Gang” Fishing Port (Ho et al. 2008b), and “fishing port in Tai-Dong” (Ho & Lin 2010b).

***Euryphorus nordmannii* Milne Edwards, 1840 (M)**

Hosts: *Coryphaena hippurus* (1, 2), *Thunnus albacares* (3) (teleosts); Sites: operculum, oral cavity, gill cavity, gills; Localities: 1, Nan-fang-aw Fishing Port; 2, Dong-shi Fishing Port; 3, Tai-dong Fishing Port; References: Ho (1963), Lin & Ho (2002b), Ho & Lin (2010b).

Remarks: This copepod was reported from Taiwan as *Euryphorus nympha* (Ho 1963), which is currently regarded as a junior synonym of *E. nordmannii* (Lewis 1967). The specific name of the species was reported as “*nordmanni*” (Lin & Ho 2002b, Ho & Lin 2010b). The first, second, and third collection localities were reported as “Nanfangao” (Ho 1963), “Dong-Shi” Fishing Port (Lin & Ho 2002b), and “fishing port in Tai-Dong” (Ho & Lin 2010b), respectively.

***Gloiopotes huttoni* (Thomson, 1890) (M)**

Hosts: *Xiphias gladius*, *Istiophorus platypterus* (reported as *I. orientalis*) (teleosts); Site: body surface; Locality: Nan-fang-aw Fishing Port; Reference: Ho (1963).

Remarks: This copepod was reported from Taiwan as *Gloiopotes longicaudatus* (Ho 1963), which is currently regarded as a junior synonym of *G. huttoni* (Cressey 1967). The collection locality was reported as “Nanfangao” (Ho 1963).

***Gloiopotes hygomianus* Steenstrup & Lütken, 1861 (M)**

Host: *Acanthocybium solandri* (teleost); Site: body surface; Locality: Cheng-gong Fishing Port; Reference: Ho & Lin (2012b).

Remarks: The collection locality was reported as “Cheng-Gong” Fishing Port (Ho & Lin 2012b).

***Hermilius pyriventris* Heller, 1865 (M)**

Hosts: *Arius maculatus* (reported as *A. maxulatus* [sic]), *Trachinotus blochii* (teleosts); Site: gills; Locality: Dong-shi Fishing Port; References: Lin & Ho (2000), Ho & Lin (2004b).

Remarks: The collection locality was reported as “Tung-Shih” Fishing Port (Lin & Ho 2000).

***Lepeophtheirus atypicus* Lin, Ho & Chen, 1996 (M)**

Host: *Siganus fuscescens* (teleost); Site: body surface; Locality: a hatchery in Peng-hu; References: Lin et al. (1996b), Ho (2004), Ho & Lin (2004b).

Remarks: The collection locality was reported as “Penghu Hatchery Station” (Lin et al. 1996b).

***Lepeophtheirus epinepheli* Ho & Dojiri, 1977 (M)**

Hosts: *Cephalopholis sonnerati*, *Epinephelus awoara* (teleosts); Sites: body surface, gill cavity, oral cavity; Locality: Dong-gang Fishing Port; Reference: Ho & Lin (2004b).

***Lepeophtheirus etelisi* Ho, Chiang & Lin, 2008 (M)**

Host: *Etelis coruscans* (teleost); Site: body surface; Lo-

cality: Tai-dong Fishing Port; Reference: Ho et al. (2008c).

***Lepeophtheirus exilipes* Ho & Lin, 2003 (M)**

Host: *Coelorinchus japonicus* (reported as *Caelorinchus japonicus*) (teleost); Sites: body surface underneath scale, gill cavity; Locality: Da-hsi Fishing Port; References: Ho & Lin (2003c, 2004b).

Remarks: The collection locality was reported as “Da-Hsi” Fishing Port (Ho & Lin 2003c).

***Lepeophtheirus formosanus* Ho & Lin, 2010 (M)**

Host: *Mola mola* (teleost); Site: body surface; Locality: Cheng-gong Fishing Port; Reference: Ho & Lin (2010a).

***Lepeophtheirus* sp. (M)**

Host: *Priacanthus macracanthus* (teleost); Site: body surface; Locality: Zi-guan Fishing Port; Reference: Cheng et al. (2021a).

Remarks: The collection locality was reported as “Ziguan” Fishing Port (Cheng et al. 2021a).

***Mappates plataxus* Rangnekar, 1958 (M)**

Host: *Platax orbicularis* (teleost); Site: gills; Locality: Da-hsi Fishing Port; Reference: Ho & Lin (2004b).

***Paralebion elongatus* Wilson, 1911 (M)**

Host: *Negaprion acutidens* (elasmobranch); Site: oral cavity; Locality: Dong-sha Atoll; Reference: Ding et al. (2021).

Remarks: The collection locality was reported as “Dongsha” Atoll (Ding et al. 2021).

***Parapetalus longipennatus* Rangnekar, 1956 (M)**

Host: *Ferdauia ferdau* (reported as *Carangoides ferdau*) (teleost); Site: oral cavity; Locality: off Tai-dong; Reference: Ho & Lin (2010d).

Remarks: See the information on *Caligus parapetalopsis* above.

***Parapetalus occidentalis* Wilson, 1908 (M)**

Host: *Rachycentron canadum* (teleost); Site: gill cavity; Localities: Dong-shi Fishing Port, a cage-net in Peng-hu, fish farms at Peng-hu Bay; References: Ho (2004), Ho & Lin (2001b), Ku & Lin (2009).

Remarks: The first collection locality was reported as “Dong-Shih” and “Tung-Shih” Fishing Port, and the name (Peng-hu) of the second collection locality was reported as “Penghu” (Ho & Lin 2001b). The third collection locality was also reported as “Penghu” Bay (Ku & Lin 2009).

***Pseudanuretes papernai* Kabata & Deets, 1988 (M)**

Host: *Pomacanthus semicirculatus* (teleost); Site: body surface; Locality: Tai-dong Fishing Port; Reference: Ho et al. (2008c).

***Synestius caliginus* Steenstrup & Lütken, 1861 (M)**

Host: *Parastromateus niger* (teleost); Sites: gill arches, gills; Locality: Mi-tuo Fishing Port; References: Lin & Ho (2000), Ho & Lin (2004b).

Remarks: The collection locality was reported as “Mi-Tuo” Fishing Port (Lin & Ho 2000).

Family **Coralliomyzontidae** Humes & Stock, 1991

Taxon involved: 1 species in 1 genus

(1 sp. in *Cholomyzon*)

***Cholomyzon tubastraeae* Cheng, Dai & Chang, 2011 (M)**

Host: *Tubastraea aurea* (hard coral); Site: surface of colony (from washings); Localities: Ya-liu, Hou-bi-hu, Tiao-shi; Reference: Cheng et al. (2011b).

Remarks: The first and second collection localities were reported as “Yaliu” and “Houbihu”, respectively (Cheng et al. 2011b).

Family **Dissonidae** Kurtz, 1924

Taxa involved: 2 species in 1 genus

(2 spp. in *Dissonus*)

***Dissonus excavatus* Boxshall, Lin, Ho, Ohtsuka, Venmathi Maran & Justine, 2008 (M)**

Host: *Bodianus perditio* (teleost); Site: gills; Locality: Tai-dong; Reference: Boxshall et al. (2008).

Remarks: The collection locality was reported as “Tai-Dong” (Boxshall et al. 2008).

***Dissonus manteri* Kabata, 1966 (M)**

Host: *Plectropomus leopardus* (teleost); Site: not reported; Locality: off Dong-gang; Reference: Boxshall et al. (2008).

Family **Hatschekiidae** Kabata, 1979

Taxon involved: 1 species in 1 genus

(1 sp. in *Hatschekia*)

***Hatschekia priacanthis* Izawa, 2016 (M)**

Host: *Priacanthus macracanthus* (teleost); Site: gills; Locality: Zi-guan Fishing Port; Reference: Cheng et al. (2021a).

Remarks: The collection locality was reported as “Ziguan” Fishing Port (Cheng et al. 2021a).

Family **Lernaeopodidae** Milne Edwards, 1840

Taxa involved: 3 species in 2 genera

(1 sp. in *Ommatokoita*; 2 spp. in *Parabrachiella*)

***Ommatokoita elongata* (Grant, 1927) (M)**

Host: *Somniosus pacificus* (elasmobranch); Site: eyes; Localities: 1, off east coast of Taiwan; 2, off Hua-lien; References: Ho et al. (2003), Wang & Yang (2004).

Remarks: The name (Hua-lien) of the second collection locality was reported as “Hualien” (Wang & Yang 2004).

***Parabrachiella lata* (Song & Chen, 1976) (M)**

Hosts: *Acanthopagrus schlegelii*, *Oreochromis mossambicus* (experimental) (teleosts); Site: not reported; Locali-

ties: Dong-shi Fishing Port, Mi-tuo Fishing Port, Bu-dai; Reference: Ho et al. (2007b).

***Parabrachiella annulata* (Markevich, 1940) (M)**

Host: *Coryphaenoides rudis* (teleost); Site: body surface; Locality: Xin-gang Fishing Port; Reference: Cheng et al. (2022).

Remarks: The collection locality was reported as “Xingang” Fishing Port (Cheng et al. 2022).

Family **Lernanthropidae** Kabata, 1979

Taxa involved: 18 species in 7 genera

(1 sp. in *Aethon*; 1 sp. in *Lernanthropinus*; 2 spp. sp. in *Lernanthropodes*; 1 sp. in *Lernanthropsis*; 9 spp. in *Lernanthropus*; 1 sp. in *Mitrapus*; 3 spp. in *Sagum*)

***Aethon priacanthi* (Kirtisinghe, 1956) (M)**

Host: *Priacanthus macracanthus* (teleost); Site: gills; Localities: Sheng-dah Fishing Port; Zi-guan Fishing Port; References: Ho et al. (2008d), Cheng et al. (2021a).

Remarks: This copepod was reported from Taiwan as *Norion priacanthi* (Ho et al. 2008d), which is currently placed in the genus *Aethon* (Cheng et al. 2021a, Walter & Boxshall 2024c). The second collection locality was reported as “Ziguan” Fishing Port (Cheng et al. 2021a).

***Lernanthropinus sphyraenae* (Yamaguti & Yamasu, 1959) (M)**

Host: *Mene maculata* (teleost); Site: gills; Locality: Dong-shi Fishing Port; Reference: Ho et al. (2008d).

***Lernanthropodes chorinemi* Pillai, 1962 (M)**

Host: *Scomberoides commersonnianus* (teleost); Site: gills; Locality: Dong-shi Fishing Port; Reference: Ho et al. (2011d).

***Lernanthropodes trachinoti* Pillai, 1962 (M)**

Host: *Trachinotus blochii* (teleost); Site: gills; Locality: Dong-shi Fishing Port; Reference: Ho et al. (2011d).

***Lernanthropsis mugilii* (Shishido, 1898) (M)**

Host: *Mugil cephalus* (teleost); Site: gills; Locality: Dong-shi Fishing Port; Reference: Ho et al. (2008d).

***Lernanthropus cadenati* Delamare-Deboutteville & Nunes-Ruivo, 1954 (M)**

Hosts: *Elops machnata* (1–3), *Megalops cyprinoides* (1, 2) (teleosts); Site: gills; Localities: 1, Dong-shi Fishing Port; 2, Dong-gang Fishing Port; 3, Cheng-gong Fishing Port; Reference: Liu et al. (2009a).

***Lernanthropus chrysophrys* Shishido, 1898 (M)**

Hosts: *Acanthopagrus berda* (1), *Acanthopagrus latus* (1), *Acanthopagrus schlegelii* (1, 2) (teleosts); Site: gills; Localities: 1, Dong-shi Fishing Port; 2, Mi-tuo Fishing Port; Reference: Liu et al. (2009a).

***Lernanthropus corniger* Yamaguti, 1954 (M)**

Hosts: *Megalaspis cordyla* (1), *Mene maculata* (2), *Myripristis vittata* (2) (teleosts); Site: gills; Localities: 1, Dong-shi Fishing Port; 2, Da-hsi Fishing Port; Reference: Liu et al. (2009b).

***Lernanthropus cornutus* Kirtisinghe, 1937 (M)**

Hosts: *Ablennes hians* (1, 2), *Strongylura leiura* (3), *Tylosurus crocodilus* (reported as *T. crocodilus crocodiles* [sic]) (2, 3), *Tylosurus melanotus* (reported as *T. acus melanotus*) (1–4) (teleosts); Site: gills; Localities: 1, Da-hsi Fishing Port; 2, Cheng-gong Fishing Port; 3, Dong-shi Fishing Port; 4, Mi-tuo Fishing Port; Reference: Liu et al. (2009a).

***Lernanthropus giganteus* Krøyer, 1863 (M)**

Hosts: *Caranx ignobilis*, *Caranx sexfasciatus* (teleosts); Site: gills; Locality: Cheng-dong Fishing Port; Reference: Liu et al. (2009b).

***Lernanthropus incilis* Ho, Liu & Lin, 2011 (M)**

Host: *Evoxymetopon poeyi* (teleost); Site: gills; Locality: Cheng-gong Fishing Port; Reference: Ho et al. (2011d).

***Lernanthropus otolithi* Pillai, 1963 (M)**

Host: *Pennahia pawak* (teleost); Site: gills; Locality: Dong-shi Fishing Port; Reference: Ho et al. (2008d).

***Lernanthropus pomadasysis* Rangnekar & Murti, 1961 (M)**

Host: *Pomadasys kaakan* (teleost); Site: gills; Locality: Dong-shi Fishing Port; Reference: Ho et al. (2008d).

***Lernanthropus pristipomoides* Kirtisinghe, 1937 (M)**

Host: *Kyphosus vaigiensis* (teleost); Site: gills; Locality: Cheng-gong Fishing Port; Reference: Liu et al. (2009b).

***Mitrapus heteropodus* (Yü, 1933) (M)**

Host: *Nematalosa nasus* (teleost); Site: gills; Locality: Sheng-dah Fishing Port; Reference: Ho et al. (2011d).

***Sagum epinepheli* (Yamaguti & Yamasu, 1960) (M)**

Host: *Epinephelus awoara* (teleost); Site: gills; Locality: Dong-gang Fishing Port; Reference: Ho et al. (2011d).

***Sagum folium* Ho, Liu & Lin, 2011 (M)**

Host: *Paracaesio caerulea* (teleost); Site: gills; Localities: Cheng-gong Fishing Port, Cheng-gong Fishing Port; Reference: Ho et al. (2011d).

***Sagum vespertilio* Kabata, 1979 (M)**

Host: *Lethrinus nebulosus* (teleost); Site: gills; Locality: Ma-gong Fishing Port; Reference: Ho et al. (2008d).

Family **Nicothoidae** Dana, 1852

Taxon involved: 1 species in 1 genus
(1 sp. in *Choniomyzon*)

***Choniomyzon taiwanensis* Cheng, Wakabayashi & Pan, 2011 (M)**

Host: *Panulirus longipes longipes* (decapod); Site: egg mass; Locality: Hua-lien Fishing Port; Reference: Cheng et al. (2021c).

Remarks: The collection locality was reported as “Hualien Port” (Cheng et al. 2021c).

Family **Pandaridae** Milne Edwards, 1840

Taxa involved: 8 species in 5 genera
(1 sp. in *Anthosoma*; 2 spp. in *Dinemoura*; 2 spp. in *Echthrogaleus*; 1 sp. in *Pagina*; 2 spp. in *Pandarus*)

***Anthosoma crassum* (Abildgaard, 1794) (M)**

Host: *Negaprion acutidens* (elasmobranch); Site: between teeth; Locality: Dong-sha Atoll; Reference: Ding et al. (2021).

Remarks: The collection locality was reported as “Dongsha” Atoll (Ding et al. 2021).

***Dinemoura discrepans* Cressey, 1967 (M)**

Hosts: *Alopias pelagicus*, *Alopias superciliosus*, *Carcharhinus limbatus*, *Carcharhinus longimanus* (elasmobranchs); Site: body surface; Locality: off Tai-dong (Cheng-gong Fishing Port); Reference: Ho & Lin (2011).

***Dinemoura ferox* (Krøyer, 1838) (M)**

Host: *Somniosus pacificus* (elasmobranch); Site: body surface; Localities: 1, off east coast of Taiwan; 2, off Hualien; References: Ho et al. (2003), Wang & Yang (2004).

Remarks: The name (Hua-lien) of the second collection locality was reported as “Hualien” (Wang & Yang 2004).

***Echthrogaleus asiaticus* Ho, Liu & Lin, 2012 (M)**

Hosts: *Alopias pelagicus*, *Alopias superciliosus* (elasmobranchs); Site: around anus or ventral side of peduncle; Locality: Cheng-gong Fishing Port; Reference: Ho et al. (2012b).

Remarks: The collection locality was reported as “Cheng-Gong” Fishing Port (Ho et al. 2012b).

***Echthrogaleus coleoptratus* (Guérin-Méneville, 1837) (M)**

Hosts: *Isurus oxyrinchus*, *Carcharhinus brachyurus*, *Prionace glauca* (elasmobranchs); Site: around anus or ventral side of peduncle; Locality: Cheng-gong Fishing Port; Reference: Ho et al. (2012b).

Remarks: The collection locality was reported as “Cheng-Gong” Fishing Port (Ho et al. 2012b).

***Pagina tunica* Cressey, 1964 (M)**

Hosts: *Alopias superciliosus*, *Carcharhinus longimanus*, *Prionace glauca* (elasmobranchs); Sites: head, body sur-

face; Locality: Cheng-gong Fishing Port; Reference: Ho et al. (2011c).

***Pandarus carcharhini* Ho, 1963 (M)**

Host: *Carcharhinus melanopterus* (elasmobranch); Site: body surface; Locality: Nan-fang-aw Fishing Port; Reference: Ho (1963).

Remarks: The collection locality was reported as “Nanfangao” (Ho 1963).

***Pandarus satyrus* Dana, 1852 (M)**

Host: *Carcharhinus brachyurus* (elasmobranch); Site: body surface (near clasper); Locality: Nan-fang-aw Fishing Port; Reference: Ho (1963).

Remarks: The collection locality was reported as “Nanfangao” (Ho 1963).

Family **Pennellidae** Burmeister, 1835

Taxon involved: 1 species in 1 genus

(1 sp. in *Ophiolernaea*)

***Ophiolernaea formosana* Ho, 1966 (M)**

Host: *Diogenichthys laternatus* (teleost); Site: proboscis and head penetrating body cavity with trunk protruding externally; Locality: Tung-kang; Reference: Ho (1966).

Remarks: The collection locality was reported as “Tungkang” (Ho 1966).

Ju-shey Ho's contribution to the systematics of the Taiwanese parasitic copepods

Dr. Ju-shey Ho has greatly contributed to clarifying the fauna of the copepods infecting Taiwanese aquatic animals. He was born in Taipei, Taiwan in 1935, graduated from the National Taiwan University in 1958, and published his first paper on the Taiwanese parasitic copepods in 1961 (Ho 1961). Subsequently, between the 1990's and the 2010's, Dr. Ho collaborated with Taiwanese scientists, examined 553 species of marine fishes (Ho et al. 2016), and described the majority of the parasitic copepods that are currently known from Taiwan. This checklist reports on 233 species of parasitic copepods from Taiwan, 184 species (79%) of which were reported by him as a senior or junior author. These copepods are 77 spp. in 11 cyclopoid families (Anthessiidae, 1 sp.; Bomolochidae, 24 spp.; Chondracanthidae, 9 spp.; Clausiidae, 1 sp.; Ergasilidae, 2 spp.; Iveidae, 1 sp.; Lernaecidae, 2 spp.; Myicolidae, 3 spp.; Rhynchomolgidae, 1 sp.; Taeniacanthidae, 19 spp.; Xarifiidae, 14 spp.) and 107 spp. in six siphonostomatoid families (Caligidae, 77 spp.; Dissonidae, 2 spp.; Lernaepodidae, 2 spp.; Lernanthropidae, 18 spp.; Pandaridae, 7 spp.; Pennellidae, 1 sp.). Of these copepods, 55 species in 14 families were described as new by him as a single author or co-author (Bomolochidae, 9 spp.; Chondracanthidae, 4 spp.; Clausiidae, 1 sp.; Ergasilidae, 1 sp.; Iveidae, 1 sp.; Myicolidae, 2 spp.; Rhynchomolgidae, 1 sp.; Taeniacanthidae, 8 spp.; Xarifiidae, 8 spp.; Caligidae, 15 spp.; Dissonidae, 1 sp.; Lernanthropidae, 2 spp.; Pandaridae, 1 sp.; Pennel-

lidae, 1 sp.). One new family (Iveidae Tung, Cheng, Lin, Ho, Kuo Yu & Su, 2014) and three new genera (*Cresseyus nudulus* Ho & Lin, 2006 [Bomolochidae]; *Parapercicola* Ho, Liu & Lin, 2011 [Chondracanthidae]; *Botegokika* Ho, Cheng & Dai, 2013 [Xarifiidae]) were erected by him and his colleagues.

Among the parasitic copepods of Taiwan, caligids have been intensively studied by Dr. Ho. Along with his Taiwanese coworkers, especially the late Dr. Ching-Long Lin (National Chiayi University, Taiwan), Dr. Ho has published 37 original papers (23 and 14 papers by a senior and a junior author, respectively), two review papers (Ho 2004; Ho et al. 2016), and one book (Ho & Lin 2004b) regarding the Taiwanese caligids. According to the Parasite-Host List above, 78 species of the family Caligidae and 58 species of the genus *Caligus* are currently known to occur in Taiwan. All of these species, except for *Paralebion elongatus* Wilson, 1911, were reported by Dr. Ho and his colleagues. Ho et al. (2016) discussed the high diversity of *Caligus* spp. in Taiwanese waters and suggested that it is related to the location of the Island of Taiwan affected by two ecological realms (the Temperate Northern Pacific Realm and the Central Indo-Pacific Realm, Spalding et al. 2007) in the western North Pacific.

The Caligidae is a specious family and, as of August 2024, *Caligus* comprises 279 valid species (Walter & Boxshall 2024d). Commonly known as sea lice, caligids infect farmed fishes as well as wild fishes in marine and brackish waters, often inducing disease conditions and, in serious cases, even host mortalities in Taiwan (Ho 2000a, b, 2004) and other regions of the world (Boxshall & Defaye 1993, Jones & Beamish 2011, Treasurer et al. 2022). Due to the importance of caligids in their systematics and as fish pathogens, Dr. Ho's publications are very important and useful for both basic (taxonomy, life cycle, ecology, and biogeography) and applied (disease control and management) studies of these animals around the world.

Dr. Ho and his coworkers have also conducted their excellent taxonomic works of several other families of the fish-parasitic copepods from Taiwan, including the Bomolochidae (Ho & Lin 2003a, 2005a, b, 2006a, 2007a, 2009, Lin & Ho 2004, 2005a, b, 2006a, 2008a, Ho et al. 2007a), Chondracanthidae (Ho et al. 2011a, b, 2013a), Taeniacanthidae (Ho & Lin 2006b, 2007b, c, 2012a, Lin & Ho 2006b, 2008b, Ho et al. 2007a), Lernanthropidae (Ho et al. 2008d, 2011d, Liu et al. 2009a, b), and Pandaridae (Ho 1963, Ho et al. 2003, 2011c, 2012b, Ho & Lin 2011).

In November 2001, Dr. Ho received the Taiwanese Science and Engineering Achievement Award, which is called “the Taiwanese Nobel Prize”, from the Taiwanese-American Foundation for his outstanding works on the parasitic copepods of Taiwan (Nagasawa & Ohtsuka 2002).

Discussion

As consolidated in this checklist, a total of 233 valid

species of parasitic copepods were reported from Taiwanese aquatic animals for the 95-year period from 1930 to 2024, and they comprise both 175 species that are parasites of fishes and 58 species that are parasites of invertebrates. The reported copepods are classified into two orders, Cyclopoida and Siphonostomatoida, which comprise 118 species in 14 families and 115 species in 10 families, respectively. These data demonstrate that Taiwan is among the few countries, like the U.K., India, Australia, Korea, and Japan, in which the diversity of parasitic copepods has been best studied.

Nonetheless, the number of Taiwanese marine fishes examined for parasitic copepods is only a small fraction of the marine fishes of this country. In total, 553 species of marine fishes were examined by Dr. Ho and his colleagues from the late 1990's to the 2000's, but this is only 17.71% of the total species number (3,121 spp., Shao 2014) of marine fishes reported from Taiwanese waters (Ho et al. 2016). After their work, six species of marine fishes (three hagfishes [Cheng et al. 2014a]; one elasmobranch [Ding et al. 2021]; two teleosts [Cheng et al. 2021a, 2022]) were added as new host records of Taiwanese parasitic copepods, but more than 2,400 species of Taiwanese marine fishes have yet to be examined for parasitic copepods. It is very likely that numerous species of parasitic copepods remain undiscovered from marine fishes in Taiwan.

To date, primarily commercially important marine fishes have been examined for parasitic copepods in Taiwan, because these species are easily purchased and sampled at fishing ports. However, despite their high commercial value, marine ornamental fish species (e.g., triggerfishes [Balistidae], butterflyfishes [Chaetodontidae], angelfishes [Pomacanthidae], surgeonfishes [Acanthuridae], damselfishes [Pomacentridae], and hawkfishes [Cirrhitidae]) have not been examined for parasitic copepods in Taiwan. Besides, the sampling at fishing ports is disadvantageous in that non-commercial, small-sized fishes, such as coastal gobiids and deep-sea myctophids, are rarely examined for parasitic copepods. In fact, no parasitic copepod has been reported from Taiwanese gobiids, and only one pennellid (*Ophiolerna formosana* Ho, 1966) has been collected from a myctophid in this country (Ho 1966). In neighboring Japan, pennellids are found on coastal gobiids, deep-sea myctophids, and other marine fishes (Nagasawa & Uyeno 2014), and some of the pennellid-infected gobiids were collected while coastal SCUBA diving (Uyeno & Nagasawa 2010, Uyeno 2013a, 2015). Moreover, non-commercial fishes have been often deposited in natural history museums, and it will be worthwhile to examine those fish specimens for clarifying the fauna of fish-parasitic copepods.

In addition to pennellids, little attention has been paid to hatschekiids in Taiwan. Only one species (*Hatschekia priacanthis* Izawa, 2016) has been reported from a marine fish in Taiwan (Cheng et al. 2021a), whereas in Japan, as many as 49 species of hatschekiids have been reported from marine fishes (Nagasawa & Uyeno 2012a, Uyeno

2013b, Uyeno & Nagasawa 2013). There is a high potential for finding unrecorded and likely new species of hatschekiids from Taiwan.

Taiwan is one of the major countries to produce cultured groupers (Glamuzina & Rimmer 2022) and, currently, hybrid groupers [*Epinephelus fuscoguttatus* (Forsskal, 1775) × *E. lanceolatus* (Bloch, 1790)] are abundantly farmed (Huang et al. 2023). However, despite such importance of grouper aquaculture in this country, three species of *Caligus* (*C. epidemicus* Hewitt, 1971, *C. orientalis* Gusev, 1951, and *C. torpedinis* Heller, 1865 (reported as *C. rotundigenitalis* Yü, 1933) have been reported only from farmed *E. malabaricus* (Bloch & Schneider, 1801) (Ho 2004, Ho & Lin 2004b). It is necessary to study the parasitic copepod fauna of groupers cultured in Taiwan.

Little is known about the parasitic copepods of freshwater fishes of Taiwan. While 176 species of freshwater fishes, including introduced species from other countries, are found in Taiwan (Froese & Pauly 2024), only three species of parasitic copepods, i.e., one ergasilid [*Neoergasilus japonicus* (Harada, 1930)] and two lernaeids (*Lernaea cyprinacea elegans* Leigh-Sharpe, 1925 and *L. parasiluri* Yü, 1938), have been reported from freshwater fishes in this country (Harada 1930, Ho 1961). Since ergasilids are known to parasitize a wide variety of freshwater fishes in the nearby East Asian countries, such as China (Kuang & Qian 1991), Japan (Nagasawa et al. 2007), and South Korea (Kim 2014), investigations into the fauna of the Taiwanese ergasilids are needed. Furthermore, *N. japonicus* was originally described in 1930 based on specimens from Taiwan (Harada 1930) but has since never been studied in this country. Because this copepod of East Asian origin has spread to many countries since the late 20th century via live-fish movement and is currently regarded as an important alien fish parasite worldwide (Nagasawa & Uyeno 2012b, Ondračková et al. 2024), it is desirable to study various aspects of the biology of the species (e.g., life cycle, growth and reproduction, seasonal occurrence and maturation, host utilization) in Taiwan for comparison across its introduced range in other countries.

As many as 849 species of corals, consisting of 558 hard corals and 291 soft corals, are found in the coastal marine waters of Taiwan (Dai & Cheng 2020, Dai 2021). However, 52 species of parasitic copepods (13 anchimolgids, one clausiid, one macrochironid, one rhynchomolgid, one strepid, 32 xarifiids, two asterocherids, and one corallio-myzontid) have been reported from only 3% (26 spp.) of the corals. In addition to these corals, numerous other potential invertebrate hosts, such as mollusks (bivalves, gastropods, cephalopods), annelids (polychaetes), and echinoderms (sea urchins, sea stars), are found in Taiwanese waters, but only six species of parasitic copepods have been reported from marine invertebrates other than corals in Taiwan: one anthessiid and three mycolid copepods from bivalves (Lin & Ho 1999, Ho et al. 2012a); one iveid copepod from an acorn worm (Tung et al. 2014, Cheng et

al. 2023); and one nicothoid copepod from the longlegged spiny lobster (Cheng et al. 2021c). Based on these facts, it is apparent that many more species of parasitic copepods are yet to be found from Taiwanese marine invertebrates.

To summarize, numerous studies have been made on the parasitic copepods of Taiwanese fishes and invertebrates since 1930 to date, and, as a result, Taiwan is now regarded as one of the few countries in which the parasitic copepod fauna has been best studied. However, the knowledge of the Taiwanese parasitic copepods is still quite limited, and there is a need to conduct more research to understand the fauna and biology of the copepods parasitic on aquatic animals, especially regarding the many marine fishes and invertebrates yet to be examined for parasitic copepods.

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Disclosure Statement

The authors report there are no competing interests to declare.

References

- Boxshall GA, Bernot J (2023) Resolving taxonomic and nomenclatural problems in the genus *Caligus* O. F. Müller, 1785 (Copepoda: Caligidae). *Zootaxa* 5360: 545–567.
- Boxshall GA, Defaye D (eds) (1993) Pathogens of Wild and Farmed Fish: Sea Lice. Ellis Horwood, Chichester, ix+378 pp.
- Boxshall GA, El-Rashidy HH (2009) A review of the *Caligus productus* species group, with the description of a new species, new synonymies and supplementary descriptions. *Zootaxa* 2271: 1–26.
- Boxshall GA, Lin C-L, Ho J-S, Ohtsuka S, Venmathi Maran BA, Justine JL (2008) A revision of the family Dissonidae Kurtz, 1924 (Copepoda: Siphonostomatoida). *Syst Parasitol* 70: 81–106.
- Cheng Y-R (2011) Two rare species of *Xarifia* (Copepoda, Xarifiidae) new to Taiwan parasitic on the scleractinian corals. *J Fish Soc Taiwan* 38: 31–40.
- Cheng Y-R (2018) The first occurrence of a parasitic copepod, *Xarifia anopla* Humes and Dojiri 1982 (Copepoda: Xarifiidae), from two species of *Montipora* coral of Taiwan. *J Fish Soc Taiwan* 45: 43–47.
- Cheng Y-R, Chan BKK (2018) Descriptions of two new species of *Xarifia* copepods (Copepoda: Xarifiidae) with a key to the known species associated with the coral family, Euphylliidae Alloiteau, 1952. *Mar Biodivers* 48: 439–447.
- Cheng Y-R, Dai C-F (2010) Endosymbiotic copepods may feed on zooxanthellae from their coral host, *Pocillopora damicornis*. *Coral Reefs* 29: 13–18.
- Cheng Y-R, Dai C-F (2018) Poecilostomatoid copepods associated with two species of widely distributed corals, *Galaxea astreata* (Lamarck, 1816) and *Galaxea fascicularis* (Linnaeus 1767), in the South China Sea. *Mar Biodivers* 48: 1057–1072.
- Cheng Y-R, Dai C-F, Chang W-B (2010) Two species of gall-inducing poecilostomatoid copepods on the scleractinian coral, *Montipora aequituberculata*. *J Fish Soc Taiwan* 37: 273–284.
- Cheng Y-R, Dai C-F, Chang W-B (2011b) A new siphonostomatoid copepod associated with the ahermatypic coral *Tubastraea aurea* from Taiwan. *Zool Stud* 50: 605–610.
- Cheng Y-R, Ho J-S, Dai C-F (2007) Two new species of *Xarifia* Humes, 1960 (Copepoda, Xarifiidae) associated with corals of Taiwan. *Crustaceana* 80: 1135–1144.
- Cheng Y-R, Ho J-S, Dai C-F (2008) *Wedanus formosanus* n. sp. (Poecilostomatoida, Rhynchomolgidae), a copepod parasitic in a scleractinian coral of Taiwan. *Crustaceana* 81: 1099–1105.
- Cheng Y-R, Ho J-S, Dai C-F (2009) *Orstomella yaliuensis* n. sp., a xarifiid copepod (Crustacea) parasitic in the polyps of hump coral *Porites lutea* Milne Edwards & Haime off Taiwan. *Syst Parasitol* 74: 17–21.
- Cheng Y-R, Ho J-S, Dai C-F (2011a) Four new xarifiid copepods (Poecilostomatoida) associated with the scleractinian coral *Pavona explanulata* (Lamarck) from off Taiwan. *Syst Parasitol* 79: 227–240.
- Cheng Y-R, Ho J-S, Dai C-F (2014b) Description of *Indoclausia helioporae* sp. nov. (Copepoda, Clausiidae) from blue coral, associated with a number of polychaetes. *Crustaceana* 87: 627–633.
- Cheng Y-R, Ho M-J, Dai C-F (2016a) Four anchimolgid copepods (Poecilostomatoida: Anchimolgidae) associated with the scleractinian coral *Pavona explanulata* (Lamarck, 1816) in Taiwan. *Zootaxa* 4174: 274–290.
- Cheng Y-R, Hsieh M-J, Weng J-S, He J-S (2021a) Five species of parasitic copepod on the red bigeye, *Priacanthus macracanthus* from Taiwan. *J Fish Soc Taiwan* 48: 177–187.
- Cheng Y-R, Lin Y-C (2021) Xarifiid copepods (Copepoda: Cyclopoidea: Xarifiidae) parasitic in the coral *Psammocora digitata* Milne Edwards & Haime 1851 from Taiwan. *J Crust Biol* 41: doi.org/10.1093/jcbr/ruab012
- Cheng Y-R, Lin C-Y, Yu J-K (2023) Embryonic and post-embryonic development in the parasitic copepod *Ive ptychoderae* (Copepoda: Iviidae [sic]): insights into its phylogenetic position. *PLOS ONE* 18: e0281013.
- Cheng Y-R, Liu W-C, Chiang W-C, Ho H-C, Chang C-W (2022) Redescriptions of two parasitic copepod species from the rudis rattail, *Coryphaenoides rudis* (Pisces, Macrouridae) from Taiwan. *Crustaceana* 95: 29–44.
- Cheng Y-R, Liu S-Y V, Dai C-F (2016c) A new family of poecilostomatoid copepods (Strepidae fam. nov.) associated with the sun coral, *Tubastraea coccinea* Lesson, 1829 in Taiwan. *Zootaxa* 4174: 346–354.
- Cheng Y-R, Lu T-M, Ding D-S (2021b) Xarifiid copepods (Copepoda: Cyclopoidea: Xarifiidae) parasitic in the coral *Psammocora columna* Dana, 1846 from Taiwan. *Animals* 2021: 2847.
- Cheng Y-R, Luo H-Y, Dai C-F, Shih H-H (2014a) A new species of chondracanthid copepod parasitic in the pharynx of hagfishes (Myxiniiformes: Myxinidae) from off Taiwan. *Syst Parasitol* 88: 281–287.
- Cheng Y-R, Mayfield AB, Meng P-J, Dai C-F, Huys R (2016b)

- Copepods associated with scleractinian corals: a worldwide checklist and a case study of their impact on the reef-building coral *Pocillopora damicornis* (Linnaeus, 1758) (Pocilloporidae). *Zootaxa* 4174: 291–345.
- Cheng Y-R, Wakabayashi K, Pan Y-J (2021c) *Choniomyzon taiwanensis* n. sp. (Crustacea: Copepoda: Nicthoidae) parasitic on the external egg mass of the longlegged spiny lobster *Panulirus longipes longipes* (Crustacea: Decapoda: Palinuridae) from Taiwanese waters. *Animals* 11: 2475.
- Chien C-Y (1994) *Lernaea cyprinacea* (L.) infection of gold fish [sic] in Taiwan. COA Fish Ser No 47, Fish Dis Res 15: 81–84.
- Cressey RF (1967) Genus *Gloioptotes* and a new species with notes on host specificity and intraspecific variation (Copepoda: Caligoida). *Proc US Natl Mus* 122: 1–22.
- Cressey RF (1982) A new genus of bomolochid copepods from Indo-West nemipterid fishes. *Proc Biol Soc Wash* 95: 495–504.
- Cressey RF, Cressey HB (1979) The parasitic copepods of Indo-West Pacific lizardfishes (Synodontidae). *Smithson Contrib Zool* 196: 1–71.
- Cressey RF, Cressey HB (1980a) The parasitic copepods of mackerel and tuna-like fishes (Scombridae) of the world. *Smithson Contrib Zool* 311: 1–186.
- Cressey RF, Cressey HB (1980b) Bomolochid copepods parasitic on the eyes of Indo-West Pacific clupeid fishes. *Fish Bull* 78: 715–730.
- Dai C-F (2021) Octocorallia Fauna of Taiwan. Ocean Center, National Taiwan University, Taipei, 672 pp. (in Taiwanese)
- Dai C-F, Cheng Y-R (2020) Corals of Taiwan. Vol. 1. Scleractinia Fauna. Owl Publishing House, Taipei, 559 pp. (in Taiwanese)
- De Grave S (2024) Palinuridae Latreille, 1802. Available at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=106794> (on 25 November 2024)
- Ding D-S, Chen Y-Y, Chen C-h, Cheng Y-R (2021) The first occurrence of *Paralebion elongatus* (Siphonostomatoida: Caligidae) parasite on sharptooth lemon shark, *Negaprion acutidens*, in the West Pacific, with a full description of a chalimus-like stage. *J Fish Soc Taiwan* 48: 161–175.
- Dojiri M, Cressey RF (1987) Revision of the Taeniacanthidae (Copepoda: Poecilostomatoida) parasitic on fishes and sea urchins. *Smithson Contrib Zool* 447: 1–250.
- Froese R, Pauly D (eds) (2024) FishBase. World Wide Web electronic publication. Available at: www.fishbase.org (02/2024) (on 24 August 2024)
- Glamuzina B, Rimmer MA (2022) Grouper aquaculture world status and perspectives. In: *Biology and Ecology of Groupers* (eds Félix-Hackradt FC, Hackradt CW, Garcia-Charton JA), CRC Press, Boca Raton, Florida, pp. 166–199.
- Harada I (1930) Studies on fresh-water fauna of Formosa (I). A new copepod species parasitic on Formosan fresh-water fishes. *J Soc Trop Agr, Taihoku Imp Univ* 2: 71–77.
- Harada I (1933) Zur Biologie des Zooplanktons im Zitugetutan (See Candidius). *Mem Fac J Soc Trop Agr, Sci Agr, Taihoku Imp Univ* 7: 71–139.
- Harada I (1937a) Limnologische Studien auf dem “Sango-Tan”, einen tropischen See von Formosa, unter besonderer Berücksichtigung der Vertikalverteilung des Zooplanktons. *Mem Fac J Soc Trop Agr, Sci Agr, Taihoku Imp Univ* 14: 143–215.
- Harada I (1937b) Ergänzung zu den Limnologische Studien auf dem “Sango-Tan”. *Mem Fac J Soc Trop Agr, Sci Agr, Taihoku Imp Univ* 14: 217–239.
- Harada I (1942) Limnologische Studien auf dem “Zitugetu-Tan”. *Mem Fac J Soc Trop Agr, Sci Agr, Taihoku Imp Univ* 31: 1–163.
- Hayes P, Justine JL, Boxshall GA (2012) The genus *Caligus* Müller, 1785 (Copepoda: Siphonostomatoida): two new species from reef associated fishes in New Caledonia, and some nomenclatural problems resolved. *Zootaxa* 3534: 21–39.
- Ho J-S (1961) Parasitic Copepoda, genus *Lernaea*, on Formosan fresh-water fishes, with a special reference to the *Lernaea parasiluri* Yü. *Quart J Taiwan Mus* 14: 143–158, 1 pl.
- Ho J-S (1963) On five species of Formosan parasitic copepods belonging to the suborder Caligoida. *Crustaceana* 5: 81–98.
- Ho J-S (1966) Three species of Formosan copepods parasitic on fishes. *Crustaceana* 11: 163–177.
- Ho J-S (2000a) The major problem of cage culture in Asia relating to sea lice. In: *Cage Culture in Asia: Proceedings of the First International Symposium on Cage Culture in Asia* (eds Liao I-C, Lin C-K), Asian Fisheries Society, Manila & World Society of Aquaculture–Southeast Asian Chapter, Bangkok, pp. 13–19.
- Ho J-S (2000b) Sea lice (Copepoda: Caligidae): the potential pests to cage culture in Asia. *Aquabiology* 22: 442–447. (in Japanese)
- Ho J-S (2004) Invasiveness of sea lice (Copepoda, Caligidae) in marine aquaculture. *J Fish Soc Taiwan* 31: 85–99.
- Ho J-S, Chang W-B, Yang S, Wang JY (2003) New records for *Dinemoura ferox* (Copepoda: Siphonostomatoida: Pandaridae) from Pacific sleeper sharks captured in waters off Eastern Taiwan. *J Parasitol* 89: 1071–1073.
- Ho J-S, Cheng Y-R (2016) *Caligus lini* n. sp., a new caligid (Copepoda, Siphonostomatoida) parasitic on the brilliant pomfret *Eumegistus illustris* Jordan & Jordan (Perciformes, Bramidae) of Taiwan. *Zootaxa* 4079: 34–40.
- Ho J-S, Cheng S-H, Chang W-C, Lin C-L (2008b) Two species of siphonostomatoid copepods parasitic on marine fishes of Taiwan. *J Fish Soc Taiwan* 35: 87–99.
- Ho J-S, Cheng Y-R, Dai C-F (2008a) Six species of *Xarifia* (Copepod, Xarifiidae) new to Taiwan parasitic on the scleractinian corals. *J Fish Soc Taiwan* 35: 147–166.
- Ho J-S, Cheng Y-R, Dai C-F (2010) *Hastatus faviae* n. gen., n. sp., a xarifiid copepod parasitic in the honeycomb coral of Taiwan. *Crustaceana* 83: 89–99.
- Ho J-S, Cheng Y-R, Dai C-F (2013b) *Botegokika* nom. nov., a replacement name for the generic name *Hastatus* (Copepoda, Xarifiidae). *Crustaceana* 86: 639–640.
- Ho J-S, Cheng Y-R, Lin C-L (2007b) The development of *Parabrachiella lata* (Song & Chen, 1976), a lernaepodid copepod parasitic on the black porgy, *Acanthopagrus schlegelii* (Bleeker, 1854), of Taiwan. *Crustaceana* 95: 47–66.
- Ho J-S, Chiang W-C, Lin C-L (2007a) Two poecilostomatoid copepods parasitic on marine fishes of Taiwan. *J Fish Soc Taiwan* 34: 343–352.
- Ho J-S, Chiang W-C, Lin C-L (2008c) Three species of caligid copepods (Siphonostomatoida) parasitic on marine fishes collected off Tai-dong, Taiwan. *J Fish Soc Taiwan* 35: 223–237.
- Ho J-S, Lin C-L (2000) *Anuretes grandis* sp. n., a caligid co-

- pepod (Siphonostomatoida) parasitic on *Diagramma pictum* (Pisces) in Taiwan, with discussion of *Anuretes* Heller, 1865. *Folia Parasitol* 47: 227–234.
- Ho J-S, Lin C-L (2001a) Sea lice (Copepoda, Caligidae) parasitic on carangid fishes of Taiwan. *J Fish Soc Taiwan* 28: 177–201.
- Ho J-S, Lin C-L (2001b) *Parapetalus occidentalis* Wilson (Copepoda, Caligidae) parasitic on wild and farmed cobia (*Rachycentron canadum*) in Taiwan. *J Fish Soc Taiwan* 28: 305–316.
- Ho J-S, Lin C-L (2002a) New species of *Metacaligus* (Caligidae, Copepoda) parasitic on the cutlassfish (*Trichiurus lepturus*) of Taiwan, with a cladistic analysis of the family Caligidae. *Zool Sci* 19: 1363–1375.
- Ho J-S, Lin C-L (2002b) Sea lice (Copepoda, Caligidae) parasitic on silver pomfret (*Pampus argenteus*) of Taiwan. *J Fish Soc Taiwan* 29: 173–185.
- Ho J-S, Lin C-L (2003a) *Naricolax insolitus* n. sp., a bomolochid copepod (Poecilostomatoida) parasitic in the nasal cavities of silver pomfret *Pampus argenteus* off Taiwan. *Syst Parasitol* 54: 223–228.
- Ho J-S, Lin C-L (2003b) Three species of *Caligus* (Copepoda: Caligidae) parasitic on fishes of the northeast coast of Taiwan. *J Fish Soc Taiwan* 30: 55–70.
- Ho J-S, Lin C-L (2003c) Three species of sea lice (Copepoda: Caligidae) parasitic on marine fishes of Taiwan. *J Fish Soc Taiwan* 30: 299–314.
- Ho J-S, Lin C-L (2003d) Solution to the taxonomic confusion surrounding *Caligus epinepheli* Yamaguti, a caligid copepod (Siphonostomatoida) parasitic on marine fishes. *Zool Stud* 42: 268–283.
- Ho J-S, Lin C-L (2004a) *Caligus planktonis* Pillai (Copepoda, Siphonostomatoida) parasitic on the largescale mullet of Taiwan. *Crustaceana* 76: 1201–1209.
- Ho J-S, Lin C-L (2004b) Sea Lice of Taiwan (Copepoda: Siphonostomatoida: Caligidae). Sueichan Press, Keelung, 388 pp.
- Ho J-S, Lin C-L (2005a) Three species of *Naricolax* Ho, Do & Kasahara, 1983 (Copepoda, Bomolochidae) parasitic in the nasal cavities of marine fishes of Taiwan. *Crustaceana* 78: 599–619.
- Ho J-S, Lin C-L (2005b) Two new species of *Nothobomolochus* Vervoort, 1962 (Copepoda, Bomolochidae) parasitic on marine fishes of Taiwan. *Crustaceana* 71: 1389–1402.
- Ho J-S, Lin C-L (2006a) A new bomolochid copepod parasitic on marine fishes of Taiwan, with reassignment of species of *Holobomolochus* Vervoort, 1969. *Crustaceana* 78: 1369–1381.
- Ho J-S, Lin C-L (2006b) Two species of *Makrostromos* gen. nov. (Copepoda: Taeniacanthidae) parasitic on laced moray (*Gymnothorax favagineus* Bloch and Schneider) in Taiwan. *Zool Stud* 45: 578–585.
- Ho J-S, Lin C-L (2007a) On a rare species of parasitic copepod, *Boylea longispica* Cressey, 1977 (Poecilostomatoida), with a key to the genera of Bomolochidae. *J Fish Soc Taiwan* 34: 299–306.
- Ho J-S, Lin C-L (2007b) Two new species of taeniacanthid copepods (Poecilostomatoida) parasitic on marine fishes of Taiwan. *Syst Parasitol* 67: 73–80.
- Ho J-S, Lin C-L (2007c) Taeniacanthid copepods (Poecilostomatoida) parasitic on marine fishes of Taiwan. *J Fish Soc Taiwan* 34: 147–164.
- Ho J-S, Lin C-L (2007d) Three species of *Caligus* Müller, 1785 (Copepoda: Caligidae) parasitic on *Caranx* spp. (Teleostei: Carangidae) off Taiwan. *Syst Parasitol* 68: 33–43.
- Ho J-S, Lin C-L (2009) *Bomolochus bramus* n. sp. (Copepoda, Poecilostomatoida, Bomolochidae) from the pomfrets (Bramidae) off Taiwan, with a list of nominal species and key to valid species of *Bomolochus* von Nordmann, 1832. *Zootaxa* 2092: 47–57.
- Ho J-S, Lin C-L (2010a) Three more unrecorded sea lice (Copepoda, Caligidae) parasitic on marine fishes collected off Taiwan, Taiwan. *Crustaceana* 83: 1261–1277.
- Ho J-S, Lin C-L (2010b) The last instar of male *Euryphorus* Milne Edwards, 1840 (Copepoda: Euryphoridae) found on marine fishes of Taiwan. *J Fish Soc Taiwan* 37: 112–120.
- Ho J-S, Lin C-L (2010c) *Caligus ignotus* n. sp. (Copepoda: Caligidae) parasitic on Poey's scabbardfish *Evoxymetopon poeyi* (Günther) off Taiwan. *Syst Parasitol* 75: 181–186.
- Ho J-S, Lin C-L (2010d) Two species of *Parapetalus* (Copepoda: Caligidae) parasitic on marine fishes of Taiwan. *J Fish Soc Taiwan* 37: 231–238.
- Ho J-S, Lin C-L (2011) Redescription of *Dinemoura discrepans* Cressey, 1967 (Copepoda: Pandaridae) parasitic on four species of sharks off southeast coast of Taiwan. *Folia Parasitol* 58: 311.
- Ho J-S, Lin C-L (2012a) *Cirracanthus longus* sp. nov. (Taeniacanthidae), a copepod parasitic on seabats (Ogcocephalidae: *Halieutaea*) from Taiwan, with a key to 23 taeniacanthid species known from Taiwan. *Zool Stud* 51: 548–555.
- Ho J-S, Lin C-L (2012b) *Gloiopotes hygomianus* Steenstrup & Lütken (Copepoda: Euryphoridae) parasitic on wahoo (*Acanthocybium solandri*) of Taiwan. *J Fish Soc Taiwan* 39: 47–55.
- Ho J-S, Lin C-L, Chang W-B (2007c) Four species of *Caligus* Müller, 1785 (Copepoda, Siphonostomatoida, Caligidae) parasitic on marine fishes of Taiwan. *J Nat Hist* 41: 401–417.
- Ho J-S, Lin C-L, Chen S-N (2000) Species of *Caligus* Müller, 1785 (Copepoda: Caligidae) parasitic on marine fishes of Taiwan. *Syst Parasitol* 46: 159–179.
- Ho J-S, Lin C-L, Liu W-C (2011a) Chondracanthid copepods parasitic on flatfishes of Taiwan. *Crustaceana* 84: 331–373.
- Ho J-S, Lin C-L, Liu W-C (2016) High diversity of *Caligus* species (Copepoda: Siphonostomatoida: Caligidae) in Taiwanese waters. *Zootaxa* 4174: 114–121.
- Ho J-S, Liu W-C, Lin C-L (2008d) Six species of lernanthropid copepods (Siphonostomatoida) parasitic on marine fishes of Taiwan. *J Fish Soc Taiwan* 35: 251–280.
- Ho J-S, Liu W-C, Lin C-L (2011b) Two species of chondracanthid copepods (Poecilostomatoida) parasitic on sandperches of Taiwan. *Crustaceana* 84: 1635–1648.
- Ho J-S, Liu W-C, Lin C-L (2011c) Redescription of *Pagina tunica* Cressey, 1964: a parasitic copepod (Pandaridae) found on sharks of Taiwan. *J Fish Soc Taiwan* 38: 329–335.
- Ho J-S, Liu W-C, Lin C-L (2011d) Six species of the Lernanthropidae (Crustacea: Copepoda) parasitic on marine fishes of Taiwan, with a key to 18 species of the family known from Taiwan. *Zool Stud* 50: 611–635.
- Ho J-S, Liu W-C, Lin C-L (2012a) New record of *Ostrincola koe* Tanaka, 1961 (Copepoda: Poecilostomatoida: Mycicolidae) from hard clam (*Meretrix lusoria*) of Taiwan, with key to spe-

- cies of genus *Ostrincola* Wilson, 1944. J Fish Soc Taiwan 39: 137–148.
- Ho J-S, Liu W-C, Lin C-L (2012b) Two species of *Echthrogaleus* (Copepoda: Siphonostomatoida: Pandaridae) parasitic on five species of sharks off the east coast of Taiwan. J Fish Soc Taiwan 39: 247–255.
- Ho J-S, Liu W-C, Lin C-L (2013a) *Parapercicola inflata* n. sp. (Copepoda, Chondracanthidae) parasitic on the red bigeye, *Priacanthus macracanthus* Cuvier, from Taiwan. Crustaceana 86: 357–366.
- Hoeksema B (2024) Anthozoa. Available at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=1292> (on 25 November 2024)
- Hsiao S-M, Chen S-Y (1977) Bacterial and parasitic diseases of bull frog [sic] (*Rana catesbeiana*), Malaysian prawn (*Macrobrachium rosenbergii*) and fresh-water cultured fishes found in Taiwan. COA Fish Ser, Mem Parasitol Fish Dis 2: 7–15. (in Taiwanese with English abstract)
- Huang PL, Afero F, Chang Y, Chen BY, Lan HY, Hou YL, Huang CT (2023) The bioeconomic analysis of hybrid giant grouper (*Epinephelus fuscoguttatus* × *Epinephelus lanceolatus*) and green grouper (*Epinephelus malabaricus*): a case study in Taiwan. Fishes 8(12): 610. doi:10.3390/fishes8120610
- Jones S, Beamish R (eds) (2011) Salmon Lice: An Integrated Approach to Understanding Parasite Abundance and Distribution. Wiley-Blackwell, Chichester, xiv+344 pp.
- Kim I-H (2014) Invertebrate Fauna of Korea. Vol. 21, No. 37, Arthropoda: Maxillopoda: Cyclopoida. Fish-parasitic Cyclopoid Copepods. National Institute of Biological Resources, Incheon, 226 pp.
- Ku C-C, Lu C-H (2009) Investigation and treatment of *Parapetatus occidentalis* Wilson (Copepoda: Caligidae) infestation in sea-cage cultured cobia (*Rachycentron canadum*) at Penghu Islands, Taiwan. J Fish Soc Taiwan 36: 161–168.
- Kuang P, Qian J (1991) Economic Fauna of China. Parasitic Crustacea of Freshwater Fishes. Science Press, Beijing, 199 pp. (in Chinese)
- Lewis AG (1967) Copepod crustaceans parasitic on teleost fishes of the Hawaiian Islands. Proc US Natl Mus 21: 1–204.
- Lin C-L, Ho J-S (1993) Life history of *Caligus epidemicus* Hewitt parasitic on tilapia (*Oreochromis mossambicus*) cultured in brackish water. In: Pathogens of Wild and Farmed Fish: Sea Lice (eds Boxshall GA, Defare D). Ellis Horwood, Chichester, pp. 5–15.
- Lin C-L, Ho J-S (1997) Taxonomic status of *Caligus polycanthi* Gnanamuthu, a copepod parasite of marine fishes in the Indo-West Pacific. Zool Stud 36: 340–344.
- Lin C-L, Ho J-S (1998a) Two new species of ergasilid copepods parasitic on fishes cultured in brackish water in Taiwan. Proc Biol Soc Wash 111: 15–27.
- Lin C-L, Ho J-S (1998b) On a species of Copepoda, *Caligus orientalis* Gusev, 1951 (Crustacea: Copepoda: Caligidae) parasitic on the fishes cultured in saltwater. J Fish Soc Taiwan 25: 199–208.
- Lin C-L, Ho J-S (1998c) Identification of sea lice parasitic on fishes cultured in Taiwan. J. Chiayi Inst Technol 59: 93–107.
- Lin C-L, Ho J-S (1999) Poecilostomatoid copepods parasitic in bivalve mollusks of Taiwan. Publ Seto Mar Biol Lab 38: 201–218.
- Lin C-L, Ho J-S (2000) Four species of unrecorded caligid copepods (Siphonostomatoida) parasitic on marine fishes of Taiwan. J Fish Soc Taiwan 27: 201–224.
- Lin C-L, Ho J-S (2001) Sea lice (Copepoda, Caligidae) parasitic on pelagic fishes of Taiwan. J Fish Soc Taiwan 28: 119–142.
- Lin C-L, Ho J-S (2002a) Another four species of unrecorded sea lice (Copepoda, Caligidae) parasitic on marine fishes of Taiwan. J Fish Soc Taiwan 29: 45–66.
- Lin C-L, Ho J-S (2002b) Two species of siphonostomatoid copepods parasitic on pelagic fishes of Taiwan. J Fish Soc Taiwan 29: 313–332.
- Lin C-L, Ho J-S (2003) Two species of rare sea lice (Copepoda, Caligidae) parasitic on marine fishes of Taiwan. J Fish Soc Taiwan 30: 147–158.
- Lin C-L, Ho J-S (2004) Three species of *Nothobomolochus* Vervoort, 1962 (Copepoda: Bomolochidae) parasitic on marine fishes landed at Mi-tuo Fishing Port in southern Taiwan. J Fish Soc Taiwan 31: 201–224.
- Lin C-L, Ho J-S (2005a) Three species of *Nothobomolochus* Vervoort, 1962 (Copepoda: Bomolochidae) parasitic on marine fishes landed at Dong-shih Fishing Port in central Taiwan. J Fish Soc Taiwan 32: 1–17.
- Lin C-L, Ho J-S (2005b) Three species of *Bomolochus* Claus, 1864 (Copepoda: Bomolochidae) parasitic on marine fishes of Taiwan. J Fish Soc Taiwan 32: 113–128.
- Lin C-L, Ho J-S (2006a) Four species of *Unicolax* Cressey and Cressey, 1980 (Copepoda: Bomolochidae) parasitic on marine fishes of Taiwan. Zool Stud 45: 339–356.
- Lin C-L, Ho J-S (2006b) Copepods of the genus *Taeniacanthus* Sumpf, 1871 (Poecilostomatoida: Taeniacanthidae) parasitic on marine fishes of Taiwan. J Fish Soc Taiwan 33: 171–191.
- Lin C-L, Ho J-S (2007) Six species of sea lice (Copepoda, Caligidae) new to Taiwan. J Fish Soc Taiwan 34: 41–67.
- Lin C-L, Ho J-S (2008a) *Nothobomolochus gazzae* (Shen, 1957), a rare parasitic copepod found on marine fish of Taiwan. J Fish Soc Taiwan 35: 167–173.
- Lin C-L, Ho J-S (2008b) Three species of *Pseudotaeniacanthus* Yamaguti & Yamasu, 1959 (Copepoda, Taeniacanthidae) parasitic on laced moray (*Gymnothorax favagineus*) in Taiwan. Proc Biol Soc Wash 121: 177–190.
- Lin C-L, Ho J-S, Chen S-N (1994) Two species of *Caligus* (Copepoda: Caligidae) parasitic on black sea bream (*Acanthopagrus schlegeli*) cultured in Taiwan. Fish Pathol 29: 253–264.
- Lin C-L, Ho J-S, Chen S-N (1996a) Developmental stages of *Caligus epidemicus* Hewitt, a copepod parasite of tilapia cultured in brackish water. J. Nat Hist 30: 661–684.
- Lin C-L, Ho J-S, Chen S-N (1996b) Two species of Caligidae (Copepoda) parasitic on cultured rabbit fish (*Siganus fuscescens*) in Taiwan. Fish Pathol 31: 129–139.
- Lin C-L, Ho J-S, Chen S-N (1997) Development of *Caligus multispinosus* Shen, a caligid copepod parasitic on the black sea bream (*Acanthopagrus schlegeli*) cultured in Taiwan. J. Nat Hist 31: 1483–1504.
- Liu W-C, Ho J-S, Lin C-L (2009a) Three species of *Lernanthropus* de Blainville, 1822 (Copepoda, Lernanthropidae) parasitic on marine fishes of Taiwan. J Fish Soc Taiwan 36: 29–48.

- Liu W-C, Ho J-S, Lin C-L (2009b) Another three species of *Lernanthropus* de Blainville, 1822 (Copepoda, Lernanthropidae) parasitic on marine fishes of Taiwan, with a key to the species of the genus *Lernanthropus* found in Taiwan. J Fish Soc Taiwan 36: 119–134.
- Nagasawa K, Ohtsuka S (2002) Great award to the former WAS President, Professor Ju-shey Ho. Monoculus 42: 5–6.
- Nagasawa K, Umino T, Uyeno D, Ohtsuka S (2007) A checklist of ergasilid copepods (Crustacea) occurring as fish parasites or plankton in Japan (1895–2007). Bull Biogeogr Soc Japan 62: 43–62. (in Japanese with English abstract)
- Nagasawa K, Uyeno D (2012a) A checklist of copepods of the families Dichelethiidae, Hatschekiidae and Pseudohatschekiidae (Siphonostomatoida) from fishes in Japanese waters (1916–2012). Biosphere Sci 51: 37–59. (in Japanese with English abstract)
- Nagasawa K, Uyeno D (2012b) Utilization of alien freshwater fishes by the parasitic copepod *Neoergasilus japonicus* (Ergasilidae) on Okinawa-jima Island, Japan, with a list of the known hosts. Zoosymposia 8: 82–97.
- Nagasawa K, Uyeno D (2014) A checklist of copepods of the family Pennellidae (Siphonostomatoida) from fishes and whales in Japanese waters (1916–2014). Biosphere Sci 53: 43–71. (in Japanese with English abstract)
- Ohtsuka S, Ho J-S, Nagasawa K, Morozinska-Gogol J, Piasecki W (2004) The identity of *Limnoncaea diuncata* Kokubo, 1914 (Copepoda: Poecilostomatoida) from Hokkaido, Japan, with the relegation of *Diargasilus* Do, 1981 to a junior synonym of *Thersitina* Norman, 1905. Syst Parasitol 57: 35–44.
- Ondračková M, Tkachenko MY, Vetešník L, Hronek J, Janáč M (2024) Distribution and host range of a highly invasive parasitic copepod. Hydrobiologia 851: 1–19.
- Özak AA, Demirkale I, Boxshall GA, Etyemez M (2013) Parasitic copepods of the common sole (*Solea solea*) from the Eastern Mediterranean coast of Turkey. Syst Parasitol 86: 173–185.
- Özak AA, Kurt TT, Kamanli SA, Akbulut G, Yanar A, Boxshall GA (2024) Two new species of planktonic *Caligus* O. F. Müller 1785 (Copepoda: Caligidae) from Türkiye with an updated review and checklist of planktonic caligids. Zootaxa 5437: 301–335.
- Özak AA, Sakarya Y, Yanar A, Özbilen U, Boxshall GA (2019) The re-discovery of *Caligus lichiae* Brian, 1906 (Copepoda: Caligidae) parasitic on two carangid fishes in the Mediterranean Sea, and the recognition of *Caligus aesopus* Wilson C. B., 1921 as a junior subjective synonym. Syst Parasitol 96: 207–232.
- Özak AA, Yanar A, Boxshall GA (2017) The discovery of *Caligus macrurus* Heller, 1865 (Copepoda: Caligidae) in the Mediterranean Sea, and the recognition of *Sciaenophilus* van Beneden, 1852 as a junior synonym of *Caligus* Müller, 1785. Syst Parasitol 94: 97–109.
- Russell BC (1993) A review of the threadfin brems of the genus *Nemipterus* (Nemipteridae) from Japan and Taiwan, with description of a new species. Japan J Ichthyol 39: 295–310.
- Shao KT (2014) The fish database of Taiwan. Available at: <http://fishdb.sinica.edu.tw> (on 23 August 2014)
- Spalding MD, Fox HE, Allen GR, Davidson N, Ferdaña ZA, Finlayson M, Halpern BS, Jorge MA, Lombana A, Lourie SA, Martin KD, McManus E, Molnar J, Recchia CA, Robertson J (2007) Marine ecoregions of the world: a bioregionalization of coastal and shelf areas. Bioscience 57: 573–583.
- Swalla BJ, van der Land J (2024) Hemichordata World Database. Ptychoderidae Spengel, 1893. Available at: <https://marinespecies.org/aphia.php?p=taxdetails&id=2019acorn> (on 25 November 2024)
- Treasurer J, Bricknell I, Bron J (eds) (2022) Sea Lice Biology and Control. 5M Books, Great Easton, 591 pp.
- Tung C-H, Cheng Y-R, Lin C-Y, Ho J-H, Kuo C-H, Yu J-K, Su Y-H (2014) A new copepod with transformed body plan and unique phylogenetic position parasitic in the acorn worm *Ptychodera flava*. Biol Bull 226: 69–80.
- Uyeno D (2013a) Two new species of *Cardiodectes* Wilson, 1917 (Copepoda: Siphonostomatoida: Pennellidae) from gobiid fishes (Actinopterygii: Perciformes) in the western Pacific Ocean. Zootaxa 3664: 301–311.
- Uyeno D (2013b) A new genus and species of hatschekiid copepod (Siphonostomatoida) from groupers (Actinopterygii: Serranidae) collected off the Ryukyu Archipelago, Japan. Syst Parasitol 84: 89–95.
- Uyeno D (2015) Systematic revision of the pennellid genus *Creopelates* Shiino, 1958 (Copepoda: Siphonostomatoida) and the proposal of a new genus. Zootaxa 3904: 359–386.
- Uyeno D, Nagasawa K (2010) Three new species of the family Pennellidae (Copepoda: Siphonostomatoida) from gobiid fishes (Pisces: Perciformes) in coastal waters of the Pacific Ocean. Zootaxa 2687: 29–44.
- Uyeno D, Nagasawa K (2013) The genus *Hatschekia* (Copepoda: Hatschekiidae) from pufferfishes (Tetraodontiformes: Tetraodontidae) off the Ryukyu Islands, Japan, with descriptions of four new species and a redescription of *H. pholas*. Folia Parasitol 60: 61–74.
- Vinarski M (2024) Mollusca. Available at: <https://marinespecies.org/aphia.php?p=taxdetails&id=51> (on 25 November 2024)
- Walter TC, Boxshall G (2024a) *Caligus hirsutus* Bassett-Smith, 1898. Available at: <https://marinespecies.org/traits/aphia.php?p=taxdetails&id=349638> (on 24 August 2024).
- Walter TC, Boxshall G (2024b) *Caligus parapetalopsis* Hameed & Pillai, 1973. Available at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=349700> (on 24 August 2024)
- Walter TC, Boxshall G (2024c) *Aethon priacanthi* (Kirtisinghe, 1956). Available at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=348574> (on 24 August 2024)
- Walter TC, Boxshall G (2024d) *Caligus* Müller O. F., 1785. Available at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=135566> (on 24 August 2024)
- Wang JY, Yang S-C (2004) First records of Pacific sleeper sharks (*Somniosus pacificus* Bigelow and Schroeder, 1944) in the subtropical waters of eastern Taiwan. Bull Mar Sci 74: 229–236.
- Yin W-Y (1956) Studies on the Ergasilidae (parasitic Copepoda) from the freshwater fishes of China. Acta Hydrobiol Sin 1956: 209–270, 18 pls. (in Chinese with English abstract)
- Zhuang M-F, Chiu Y-C, Cheng Y-R (2022) Descriptions of three new records of xarifiid copepods parasitic in hard corals of Taiwan, with a key to the known species of the family Xarifiidae Humes 1960 discovered in Taiwan. J Fish Soc Taiwan 49: 221–233.