

**THE AMPHIPODS (CRUSTACEA: PERACARIDA) OF SOUTHEAST ASIA
AND THE NEIGHBOURING REGIONS: AN UPDATED
CHECKLIST WITH NEW RECORDS OF ENDEMIC SPECIES**

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ABSTRACT: A review of the published literature, including recent systematic reviews, reveals that 605 known amphipods species have been recorded in Southeast Asia and the neighbouring waters, including 52 caprellid species, 34 talitrid species and 520 gammaridean species. These 605 species are classified into 70 families and 239 genera, with the Ampeliscidae having the most diversity (61 species), followed by Caprellidae (52 species), Maeridae (57 species), Aoridae (39 species), Corophiidae (29 species). Additionally, 65 families with fewer than 30 species are recorded. The total number of species is spread across 11 bordering countries, namely Indonesia (149 species), the People's Republic of China (124), Vietnam (124 species), Thailand (70 species), Malaysia (59 species), the Philippines (53 species), Singapore (32 species), Timor-Leste (12 species), Brunei (3 species) and Myanmar (3 species). Cambodia had the fewest species recorded that this could simply reflect a lack of data from this area.

Keywords: Amphipods, checklist, Senticaudata, Southeast Asia

INTRODUCTION

Southeast Asian waters are characterised by the presence of highly diverse habitats such as coral reefs, mangrove forests, seagrass beds, and sandy beaches. The coastal waters of Southeast Asia are globally acknowledged as the centre of marine biodiversity, owing to numerous unique settings of this region (Nishida & Nishikawa 2011).

Fleminger (1986) established that this area was Tethyan in origin, dating back to ca. 200 million years ago. It contributed to the region's complex geologic history, which included eustatic sea-level changes during the glacial and interglacial periods, as well as frequent continental fusion and fission events throughout its geologic history. These factors contributed to the formation of numerous island chains and marginal seas, several of which with

semi-enclosed deep basins, such as the Sulu and Celebes Seas.

Numerous extensive collections of marine planktonic, benthic, and nektonic organisms have been made in this area's coastal zones and shelf waters. For instance, approximately 600,000 specimens of micro- and macroalgae, protozoans, invertebrates, and fishes in the China seas alone, have been deposited in the Marine Biological Museums, Chinese Academy of Sciences, in Qingdao and Guangzhou for taxonomic and systematic studies. Over a thousand papers and volumes of monographs have been contributed. The most recently published are the 33 volumes of *Fauna Sinica—Invertebrata* and 7 volumes of *Flora Algarum Marinarum Sinarum* (*Marine Algal Flora of China*) (Liu, 2013).

Parallel to previous studies, the Southeast Asian waters are home to a diverse amphipod fauna with

extraordinary morphological diversity. However, the region's available data are sparse, sporadic, inaccessible and poorly managed and formatted. The inventory, assessment and dissemination of the region's well-documented biodiversity information have become critical for deepening understanding, in addition to advancing conservation and management of these resources. Furthermore, taxonomical expertise and tools, such as databases and identification guides, are crucial, particularly for highly diverse and taxonomically complex groups. A preliminary step toward achieving this objective is the establishment of up-to-date faunal checklists.

The documentation of this fauna has resulted from extensive discrete regional research –Pirlot (1933, 1934, 1936a, 1936b) and Ortiz & Lalana (1997, 1999) primarily in Indonesian waters; Imbach (1967), Margulis (1968) and Dang (1965, 1968) in Vietnamese waters; Bussarawich *et al.* (1984) in the Thailand coast waters; Azman & Othman (2013) in the Peninsular Malaysia waters; Oleröd (1970) in the Philippines waters; Ren (2006) in the China Seas waters and Hughes (2015) in Timor-Leste waters.

In this context, a checklist is currently recognised that provides an overview of what is found in

Southeast Asia and neighbouring regions, as well as a brief introduction to the families and genera, based on Lowry & Myers (2013).

MATERIALS AND METHODS

The list is compiled primarily from published sources, records from the World Register of Marine Species (WoRMS) (<http://www.marinespecies.org>), as well as the Encyclopedia of Life portal (<http://www.eol.org>) including several recent monographs focusing on species found in Southeast Asia and the neighbouring regions.

In order to better comprehend the regional distribution of amphipods, species records have been assigned to one of two biogeographic schemes based on zonal records: 1) of South China Sea Territories and neighbouring regions, including the Paracel and Spratly Islands (Central-western and North-western South China Sea) [A] (Figure 1); 2) Southeast Asian (SEA) countries, which is a bioregionalisation of coastal and shelf areas [B] (Figure 1). The following abbreviations are used in the present study to refer to Southeast Asian countries and the neighbouring regions: BN, Brunei; CN, China; HK, Hong Kong; ID, Indonesia; KH,

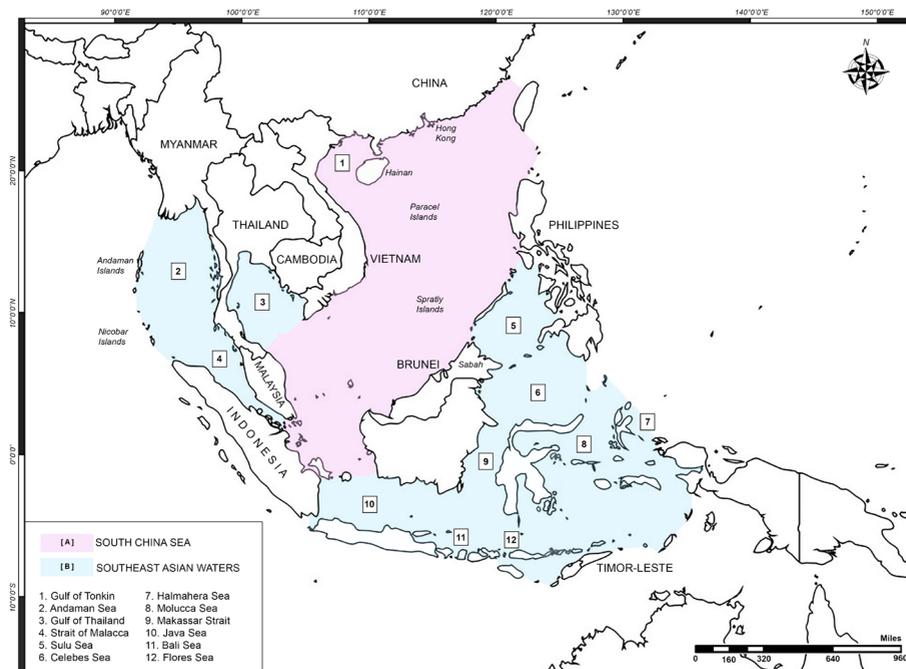


Figure 1. Map of Southeast Asia and the neighbouring regions (country names are in uppercase).

The amphipods (Crustacea: Peracarida) of Southeast Asia and the neighbouring regions

Cambodia; MM, Myanmar; MY, Malaysia; PH, Philippines; SCS, South China Sea; SG, Singapore; SPR Is., Spratly Island; TH, Thailand; TL, Timor-Leste; VN, Vietnam.

The following list shows surveys, with literature references, of all the species of the amphipod fauna (Gammaridea and Caprellidea) found in Southeast Asia and neighbouring regions, as delineated in Figure 1. It updates and expands the valuable faunal list compiled by Lowry (2000) in "Taxonomic Status of Amphipod Crustaceans in the South China Sea With A Checklist of Known Species". This updated checklist is alphabetically ordered. Nevertheless, detailed synonymy, descriptions and comparisons of closely related species are not provided. The authors are not liable for the validity of identifications; however, species that have been recorded distant from their original geographic areas should be appraised as a suspect. The authors exclude taxa from the Hyperiididae as it has an extensive distribution. By including it, full citation and synonymy will become extremely time consuming and challenging to verify. Only taxa that have been appropriately described and recorded by the first half of 2021 are considered.

RESULTS AND DISCUSSION

A total of 605 amphipod species in 70 families have been reported from the Southeast Asian countries and the neighbouring regions (Table 1), including 283 species reported in the South China Sea, 149 species in Indonesian waters, 124 species

in Vietnam waters, 124 species in China Coastal waters (Hong Kong, Hainan Island, Guangdong and Guangxi), 70 species in Thailand waters, 59 species in Malaysia waters, 53 species in the Philippines waters, 42 species in the Spratly Island waters, 32 species in Singapore waters, 12 species in Timor-Leste waters, 3 species in Myanmar and Brunei waters, respectively, and 1 species in Cambodia waters.

Ampeliscidae Krøyer, 1842 (61 species), Caprellidae Leach, 1814 (52 species), Maeridae Krapp-Schickel, 2008 (57 species), Aoridae Stebbing, 1899 (39 species) and Corophiidae Leach, 1814 (29 species) constitute the five most speciose families (Figure 2). 156 of the 605 species are reported as endemic to Southeast Asia. In contrast, 283 are endemic to the South China Sea, bringing the region's percentage of endemism to 72.6 %.

The most recent census of amphipod species in Southeast Asian (SEA) countries and neighbouring regions identified 605 species belonging to 239 genera and 70 families. This represents only 6.7% of the approximately 9,000 amphipods known worldwide, according to Coleman (2015). Table 1 presents a concise overview of the Southeast Asian region's amphipod fauna, summarising the total number of taxa for each country's different coasts.

In terms of composition, the Ampeliscidae (61 species) are the most diverse family-level groups from these regions, followed by Caprellidae (52 species), Maeridae (57 species), Aoridae (39 species), Corophiidae (29 species), Ampithoidae (25 species), Leucothoidae (21 species), Photidae (19 species),

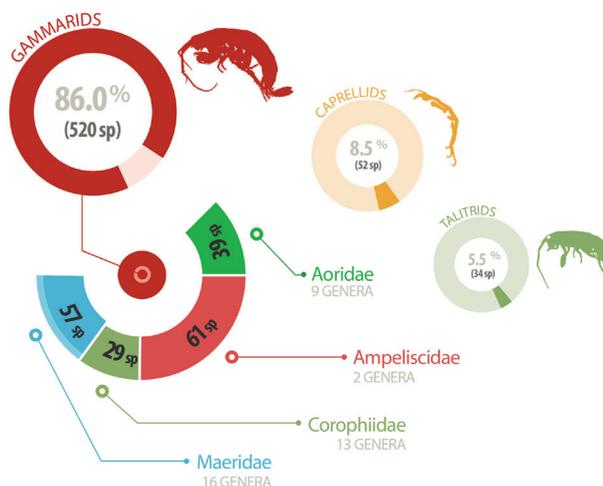


Figure 2. Dominant amphipod taxa of Southeast Asia and the neighbouring regions.

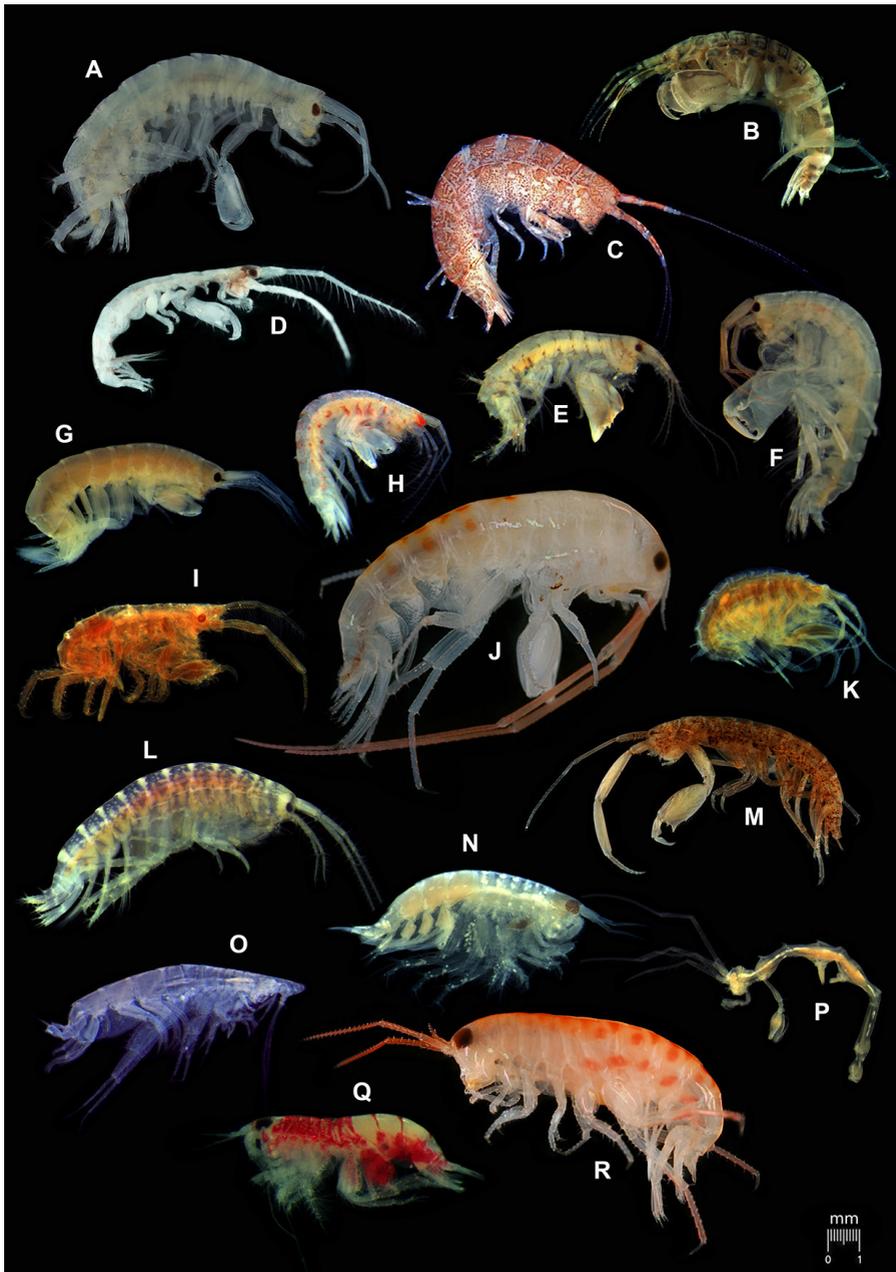


Figure 3. Some amphipod species from SEA and the neighbouring regions. A) *Parelasmpus setiger* Chevreux, 1901, B) *Cheiriphotis megacheles* (Giles, 1885), C) *Cymadusa vadosa* Imbach, 1967, D) *Cerapus bumbumiensis* Nurshazwan, Ahmad-Zaki & Azman, 2020, E) *Dulichchiella fresnelii* (Audouin, 1826), F) *Quadrimaera anhi* Dang & Le, 2011, G) *Ceradocus mizani* Lim, Azman & Othman, 2010, H) *Latigammaropsis atlantica* (Stebbing, 1888), I) *Podocerus zeylanicus* (Walker, 1904), J) *Talorchestia gracilis* (Dana, 1852), K) *Stenothoe gallensis* Walker, 1904, L) *Elasmopus nanshaensis* Ren, 1998, M) *Grandidierella halophila* Wongkamhaeng, Pholpunthin & Azman, 2012, N) *Urothoe tinggiensis* Azman & Melvin, 2011, O) *Indischnopus redangi* Othman & Morino, 1996, P) *Metaprotella haswelliana* (Mayer, 1882), Q) *Urothoe sibuensis* Azman & Melvin, 2011, R) *Talorchestia bunaken* Lowry, Springthorpe & Azman, 2017.

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and Lysianassidae (15 species) (Figure 2).

Each of 60 families has fewer than 15 recorded species. The most diverse families at the generic level are the Caprellidae (27 genera), Maeridae (16 genera) and Corophiidae (13 genera) (Figure 3).

Within the Ampeliscaidae, two genera, *Ampelisca* and *Byblis*, recorded 34 and 27 species, respectively. Within the Maeridae, only three genera, *Elasmopus* (16 species), *Ceradocus* (10 species) and *Quadrimaera* (5 species), are consisted of more than four species. Within the Caprellidae, only one genus, *Caprella* (11 species), has more than ten species.

The SEA and neighbouring regions have a more significant number of amphipod species than the Gulf of Mexico (348 species; LeCroy et al., 2009), Caribbean Sea (535 species; Martin et al., 2013), the Mediterranean Sea (450 species; Ruffo, 1982; 1989; 1993) and Japan (544 species; Fujikura et al., 2010) (Figure 4). This is unsurprising given that these waters are part of the biologically diverse Indo-West Pacific regions.

Amphipods, of which there are currently 439 species (or 72.6%) in the SEA and neighbouring regions, are known solely from the original material. The South China Sea (283 species) has an endemism rate of 93.4 %. The Indonesian region (the world's longest coastline) is home to 149 species, with 67.8% endemic. The total number of species recorded

in Vietnamese water is also relatively large, at 124, with 33.3% being endemic. The Thailand coast recorded 70 species (68.6 % endemic), followed by Malaysia with 59 species (55.9 % endemic) and the Philippines with 53 species (50.9 %). Finally, Singapore recorded 32 species, with 7 endemic species (Figure 5).

Furthermore, it is critical to note the decline in species recorded in certain countries (e.g. Singapore, Cambodia, Myanmar and Timor-Leste). This is due to a higher sampling pressure in other parts of the region, rather than biological, biogeographic or oceanographic factors. In addition, the high percentage of shared regional species between the countries suggests that the SEA amphipod fauna belongs to the same zoogeographic subregion or province.

This remarkable compilation indicates the spectacular success and progress made in taxonomy and biodiversity studies during this brief period of fewer than 30 years (Figure 6).

The present checklist and other taxonomic resources (bibliography, electronic library, distributional data) will be established and published on the website (<https://seamphipods.myspecies.info>) to keep pace with the rapid change and the dynamic state of species composition in this region.

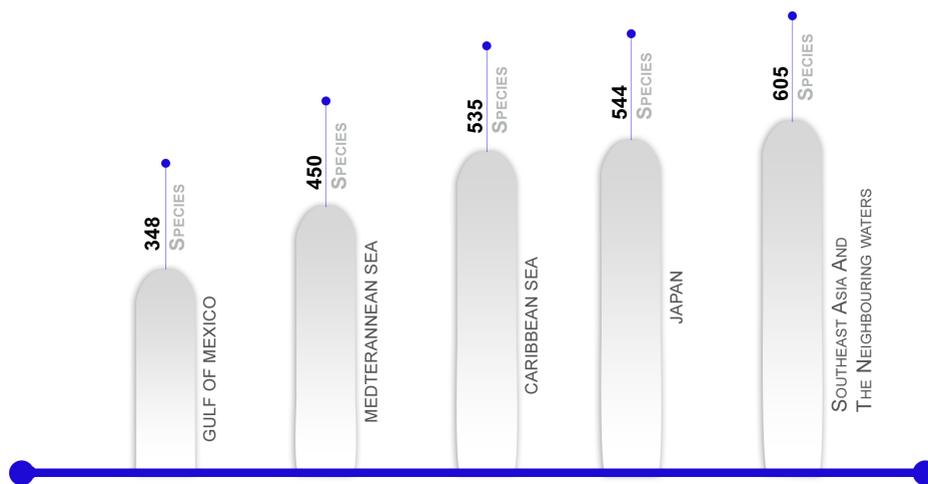


Figure 4. Species richness comparison among major seas worldwide.

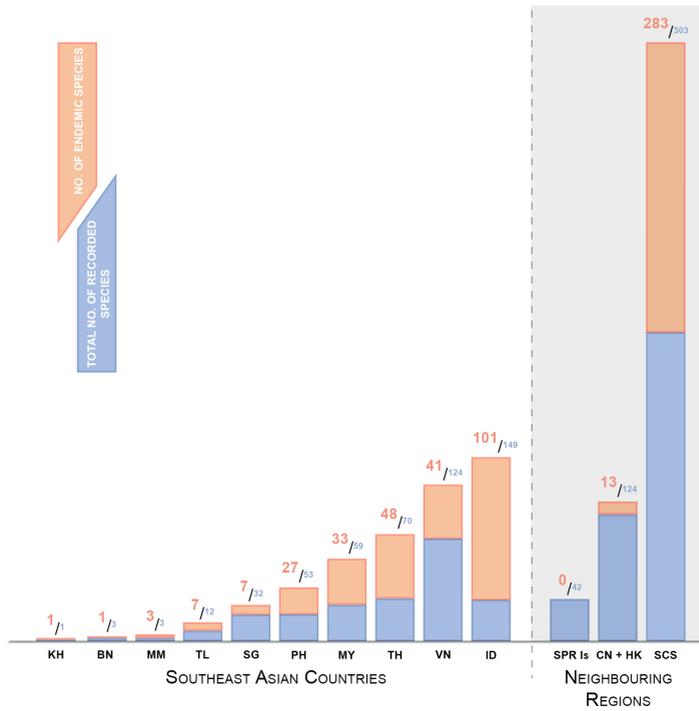


Figure 5. Total number of species recorded with endemic species for each country or region.

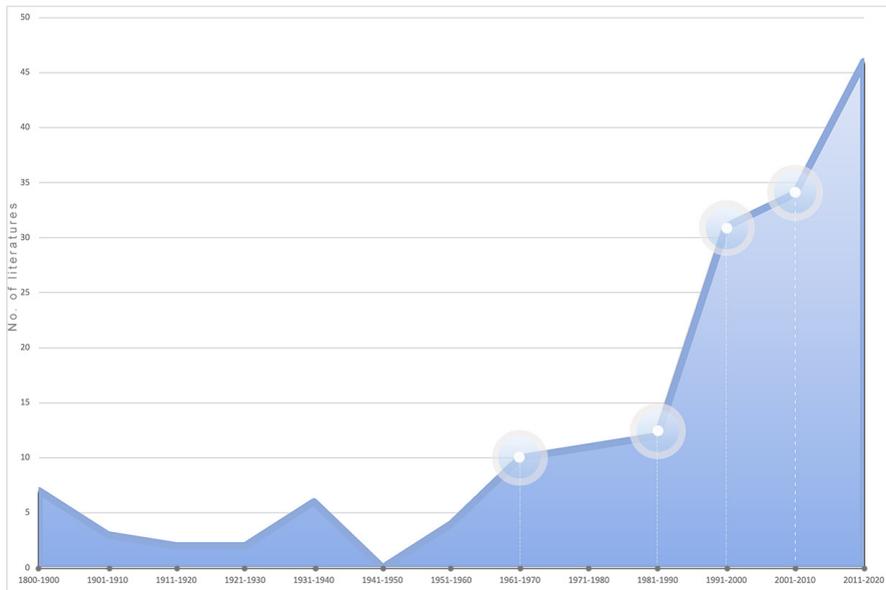


Figure 6. Number of published literature on amphipods in the SEA and the neighbouring regions since 1800.

FAMILY/SPECIES	SOUTHEAST ASIA										NEIGHBOURING REGIONS			
	BN	ID	KH	MM	MY	PH	SG	TH	TL	VN	CN + HK	SCS	SPR Is	
<i>Ampelisca naikaiensis</i> Nagata, 1959 ^{88,89,100,131}										●		○		
<i>Ampelisca nanhaiensis</i> Ren, 2006 ^{88,131}												○		
<i>Ampelisca nanshaensis</i> Ren, 1991 ^{88,89,125,131}												○	●	
<i>Ampelisca orops</i> Imbach, 1969 ^{56,62,89}										○				
<i>Ampelisca pygmaea</i> Schellenberg, 1938 ^{7,11,13,131}		●								●		○	●	
<i>Ampelisca stenopa</i> Schellenberg, 1925 ^{88,89,100,131}										●		○		
<i>Ampelisca subbrevicornis</i> Pinot, 1936 ¹¹³		○										○		
<i>Ampelisca submisaktensis</i> Dang & Le, 2013 ³⁸										○				
<i>Ampelisca talus</i> Dang & Le, 2013 ³⁸										○				
<i>Ampelisca tansani</i> Hirayama, 1991 ^{50,89,131}											○			
<i>Ampelisca taynamensis</i> Dang & Le, 2013 ³⁸										○				
<i>Ampelisca tenuicornis</i> Liljeberg, 1856 ¹¹³														
<i>Ampelisca thaoae</i> Dang & Le, 2013 ³⁸		○												
<i>Ampelisca typlota</i> Ren, 2006 ^{38,88,131}										●		○		
<i>Ampelisca zamboangae</i> Stebbing, 1888 ³⁸										○				
<i>Byblis bandasetus</i> Ren, 2006 ^{88,131}											○			
<i>Byblis bidentatus</i> Ren, 1998 ^{88,128}														
<i>Byblis brachyura</i> Margulis, 1968 ^{24,88,100,131}										●		○	●	
<i>Byblis caecus</i> Dang & Le, 2013 ³⁸												○		
<i>Byblis calisto</i> Imbach, 1969 ^{57,62,88,89,125,131}										●		○	●	
<i>Byblis febris</i> Imbach, 1969 ^{62,88,89,131}										●		○		
<i>Byblis to</i> Imbach, 1969 ^{62,88,89,131}										●		○		
<i>Byblis japonicus</i> Dahl, 1944 ^{50,88,131}										●		○		
<i>Byblis kalliarthra</i> Stebbing 1886 ^{50,56,88,89,100,131}										●		○	●	
<i>Byblis laterocostatus</i> Ren, 2006 ^{88,131}										●		○		
<i>Byblis limus</i> Ren, 2006 ^{88,131}										●		○	●	
<i>Byblis longiflagelis</i> Dickinson, 1983 ^{88,131}										●		○	●	

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FAMILY/ SPECIES	SOUTHEAST ASIA										NEIGHBOURING REGIONS			
	BN	ID	KH	MM	MY	PH	SG	TH	TL	VN	CN + HK	SCS	SPR Is	
Aoridae Stebbing, 1899														
<i>Aora pseudotypica</i> Hirayama, 1984 ^{88,131}											●	○		
<i>Aoroides columbiae</i> Walker 1898 ^{88,113}	○											○		
<i>Aoroides longimerus</i> Ren & Zheng, 1996 ¹³⁶	○													
<i>Autonoe seurati</i> (Chevreux, 1907) ¹¹³	○													
<i>Bemlos aequimanus</i> (Schellenberg, 1938) ^{88,131}	○										●	○	●	
<i>Bemlos clypeatus</i> Krapp-Schickel & Myers, 2006 ⁷¹	○													
<i>Bemlos delicatissima</i> Myers, 2002 ¹⁰⁹								○						
<i>Bemlos hainanensis</i> Ren, 2006 ^{88,131,133}											●	○		
<i>Bemlos longisetis</i> Ren, 2006 ^{88,131,133}											○	○	●	
<i>Bemlos palmatus</i> (Ledoyer, 1972) ^{76,113}	○													
<i>Bemlos quadrimanus</i> (Sivaprakasam, 1970) ^{88,133}									●				●	
<i>Bemlos regius</i> Myers, 1985 ^{88,133}											●	○		
<i>Bemlos sicus</i> Krapp-Schickel & Myers, 2006 ⁷¹	○										●	○		
<i>Bemlos subtriangulum</i> Ortiz & Lalana, 1997 ¹¹³	○										●			
<i>Bemlos tridens</i> (Schellenberg, 1938) ¹³³												○		
<i>Bemlos virgatus</i> Myers 1985 ¹³³												○	●	
<i>Globosolembos excavatus</i> (Myers, 1975) ^{88,133}											●	○		
<i>Globosolembos francanni</i> (D.M.Reid, 1951) ^{88,133}												○		
<i>Globosolembos indicus</i> (Ledoyer, 1967) ^{75,113}	○													
<i>Globosolembos leapakahi</i> (J.L. Barnard 1970) ^{88,133}											●	○		
<i>Globosolembos longispinosus</i> Ren, 2006 ^{88,133}											●	○		
<i>Globosolembos ovatus</i> (Myers, 1985) ^{88,133}											●	○	●	
<i>Globosolembos ruffoi</i> (Myers, 1975) ^{107,113}	○													
<i>Grandidierella bispinosa</i> Schellenberg, 1938 ¹¹³	○													
<i>Grandidierella bonnieroides</i> Stephensen, 1947 ¹¹³	○													
<i>Grandidierella gilesi</i> Chilton, 1921 ^{25,62,88,89,113}	●										●		●	

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FAMILY/ SPECIES	SOUTHEAST ASIA											NEIGHBOURING REGIONS			
	BN	ID	KH	MM	MY	PH	SG	TH	TL	VN	CN + HK	SCS	SPR Is		
<i>Pseudaeignella telukrimau</i> Lim, Azman, Takeuchi & Othman, 2017 ⁸⁶				○								○			
<i>Tritiropus uncinatus</i> Mayer, 1903 ¹⁰²															
<i>Tropicaprilla minuta</i> Guerra-García & Takeuchi, 2003 ⁴⁶								○			○				
Cebocaridae Lowry & Stoddart, 2011															
<i>Crybelocephalus barnardi</i> Birstein & M. Vinogradov, 1963 ^{23,97}						○									
<i>Paracyplocaris distinctus</i> Birstein & M. Vinogradov, 1963 ^{23,97}						○									
Cheirocratidae d'Udekem d'Acoz, 2010															
<i>Cheirocarpochela sinica</i> Ren & Andres, 2006 ^{88,131}											●	○			
<i>Incratella carpolobata</i> Ortiz & Lalana, 1999 ¹¹⁵									○						
Ceinidae J.L. Barnard, 1972															
<i>Ceina carinata</i> (Pirlot, 1936) ¹²⁴										○					
Cheluridae Allman, 1847															
<i>Tropichelura insulae</i> (Calman, 1910) ¹¹³										○					
Chiltoniidae J.L. Barnard, 1972															
<i>Afrochiltonia capensis</i> (K.H. Barnard, 1916) ¹³¹												○			
Colomastigidae Chevreux, 1899															
<i>Colomastix longicaudata</i> Ren, 2006 ^{88,131,133}												○	●		
<i>Colomastix lunatilo</i> J.L. Barnard, 1970 ¹¹³									○						
<i>Colomastix minispinosa</i> Ren, 2006 ^{88,131,133}												○	●		
<i>Colomastix truncatipes</i> Ledoyer, 1979 ^{79,113}									○						
<i>Yulumara dentata</i> Ren, 2006 ^{88,131,133}												○	●		
Corophiidae Leach, 1814															
<i>Apocorophium acutum</i> (Chevreux, 1908) ^{54,88,133}									●			○	●		
<i>Cheiriphotis durbanensis</i> K.H. Barnard, 1916 ^{13,122}									○						
<i>Cheiriphotis mediterranea</i> Myers, 1983 ^{88,131}												○	●		
<i>Cheiriphotis megacheles</i> (Giles, 1885) ^{56,88,89,131}											●	●	●		

Figure 3B

FAMILY/SPECIES	SOUTHEAST ASIA										NEIGHBOURING REGIONS		
	BN	ID	KH	MM	MY	PH	SG	TH	TL	VN	CN + HK	SCS	SPR Is
<i>Cheiriphotis quadrichelatus</i> Ortiz & Lalana, 1997 ¹¹³	○												
<i>Cheiriphotis trifurcata</i> Wongkhamhaeng, Azman & Puttapreecha, 2012 ¹⁶⁷							○						
<i>Corophium major</i> Ren, 1992 ^{88,131}											●	○	
<i>Corophium shoemakeri</i> Monod, 1955 ⁸⁹						○							
<i>Corophium volutator</i> (Pallas, 1766) ¹¹⁶				○									
<i>Crassikorophium crassicornae</i> (Bruzelius, 1859) ^{72,88,89,131}											●	○	
<i>Eocorophium kitamori</i> (Nagata, 1965) ^{49,88,89,131}											●	○	
<i>Guerneia sombati</i> Hirayama, 1986 ^{49,88}											○		
<i>Hirayamaia hongkongensis</i> (Hirayama, 1986) ^{48,89,131}											●	○	
<i>Hirayamaia mortoni</i> (Hirayama, 1986) ^{49,88,89,131}											●	○	
<i>Hirayamaia tridentita</i> (Hirayama, 1986) ^{48,88,89,131}											●	○	
<i>Laticorophium baconi</i> (Shoemaker, 1934) ^{58,89,104,131}											●	○	
<i>Leptocheirus difresni</i> Ledoyer, 1982 ²⁵								○					
<i>Leptocheirus makassarensis</i> Ortiz & Lalana, 1997 ¹¹³		○											
<i>Microcorophium miospinulosum</i> (Hirayama, 1986) ^{89,131}											●	○	
<i>Monocorophium acherusicum</i> (Costa, 1853) ^{49,89,104,131}											●	○	
<i>Monocorophium insidiosum</i> (Crawford, 1937) ^{88,104,131}											●	○	
<i>Monocorophium sextonae</i> (Crawford, 1937) ^{49,131}												○	
<i>Monocorophium uenoi</i> (Stephensen, 1932) ^{58,89,131}											●	○	
<i>Quadrinemaera pacifica</i> (Schellenberg, 1938) ²⁴											○		
<i>Sinocorophium intermedium</i> (Ngoc, 1965) ^{33,58,88,89}										○			
<i>Sinocorophium lamellatum</i> (Hirayama, 1984) ^{87,133}										○			
<i>Sinocorophium minutum</i> (Ngoc, 1965) ³³										○			
<i>Sinocorophium sinensis</i> (Zhang, 1974) ^{88,133,175}											●	○	
<i>Sinocorophium triangulapedarum</i> (Hirayama, 1986) ^{48,88,89,133}											●	○	

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	BN	ID	KH	MM	MY	PH	SG	TH	TL	VN	CN + HK	SCS	SPR Is	
<i>Ichtopus nanhaiensis</i> Ren, 2012 ^{131,132}													○	
<i>Ichtopus spinicornis</i> Boeck, 1861 ¹⁸										○				
<i>Ichtopus wardi</i> Lowry & Stoddart, 1992 ^{89,96,97,116,133}	●				●	●							○	
Urothoidae Bousfield, 1978														
<i>Urothoe carda</i> Imbach, 1969 ^{62,88,89,131}									●				○	
<i>Urothoe chosani</i> Hirayama, 1992 ^{52,89,133}									●		●		○	
<i>Urothoe cuspis</i> Imbach, 1969 ^{62,88,89,131}									●				○	
<i>Urothoe gelasina</i> Imbach, 1969 ^{62,88,89,116,131}					●				●				○	
<i>Urothoe marina</i> (Spence Bate, 1857) ^{88,131}									●				○	
<i>Urothoe orientalis</i> Gurjanova, 1938 ^{62,89,131}									●				○	
<i>Urothoe platydactyla</i> Rabindranath, 1971 ^{25,166}								○					○	
<i>Urothoe sibiensis</i> Azman & Melvin, 2011 ⁸ Figure 3Q					○								○	
<i>Urothoe spinidigitata</i> Walker, 1904 ^{62,88,131}									●				○	
<i>Urothoe tinggiensis</i> Azman & Melvin, 2011 ⁸ Figure 3N					○								○	
Valettiopsidae Lowry & De Broyer, 2008														
<i>Valettiopsis dentata</i> Holmes, 1908 ^{18,131}	●												○	
SUBTOTAL	3	149	1	3	59	53	32	70	12	124	124	303	42	
Endemicity Total	1	101	1	3	33	27	7	48	7	41	13	283	0	
Regional Total	411										317			
TOTAL											605			

- 1: Ali-Eimran *et al.* (2020)
 2: Angsupanisch *et al.* (2005)
 3: Arifianti & Wongkamaeng (2017)
 4: Ariyama *et al.* (2010)
 5: Asari (1983)
 6: Azman (2021)
 7: Azman *et al.* (2014)
 8: Azman & Melvin (2011)
 9: Azman & Othman (2012)
 10: Azman & Othman (2013)
 11: Baker (1915)
 12: Bamber (2003)
 13: Barnard (1916)
 14: Barnard (1935)
 15: Barnard (1955)
 16: Barnard (1965)
 17: Barnard (1972)
 18: Barnard (1990)
 19: Barnard & Karaman (1991)
 20: Barnard & Thomas (1984)
 21: Bellan-Santini & Costello (2001)
 22: Birstein & Vinogradov (1955)
 23: Birstein & Vinogradov (1963)
 24: Bu (2013)
 25: Bussarawich *et al.* (1984)
 26: Che & Morton (1996)
 27: Chevreux (1901)
 28: Chou & Lee (1996)
 29: Coineau & Rao (1972)
 30: Dahl (1959)
 31: Dana (1852)
 32: Dana (1853)
 33: Dang (1965)
 34: Dang (1968)
 35: Dang & Le (2005)
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 40: Feirulsha & Rahim (2020)
 41: Galathea II (1950-52)
 42: Griffiths (1973)
 43: Griffiths (1974)
 44: Guerra-Garcia (2002)
 45: Guerra-Garcia (2004)
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 47: Haswell (1879)
 48: Hirayama (1986a)
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 50: Hirayama (1991)
 51: Hirayama (1992a)
 52: Hirayama (1992b)
 53: Hirayama (1992c)
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 122: Peart & Ahyong (2016)
 123: Pirlot (1932)
 124: Pirlot (1934)
 125: Pirlot (1936b)
 126: Ren (1991)
 127: Ren (1994)
 128: Ren (1997)
 129: Ren (1998)
 130: Ren (1999)
 131: Ren (2001)
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 133: Ren & Andres (2006)
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 139: Ruffo (1985)
 140: Ruffo (1994)
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 143: Schellenberg (1938)
 144: Shin *et al.* (2015)
 145: Shoemaker (1935)
 146: Sivaprakasam (1969)
 147: Spandl (1923)
 148: Stebbing (1887)
 149: Stebbing (1888)
 150: Stephensen (1931)
 151: Stoddiart & Lowry (2004)
 152: Suklom *et al.* (2021)
 153: Suzuki *et al.* (2017)
 154: Tattersall (1922)
 155: Taylor (2002)
 156: Thomas (2015)
 157: Tomikawa *et al.* (2007)
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 160: Vonk & Jaume (2013)
 161: Walker (1904)
 162: Weber (1892)
 163: White (1847)
 164: White (2011)
 165: Wongkamaeng (2014)
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 175: Zhang (1974)
 176: Zheng & Hou (2017)

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