

Fig. 13. Stereomastis suhmi (Bate), female, cl. 25 mm, AM P25046, carapace.

starting just behind the orbital notch; there is a cluster of spinules on the gastric region of the carapace as well as two or three small spinules laterally just behind the junction of the two branches of the cervical groove. The superior branchial carina is composed of seven to nine (most often eight) spinules.

The carina of abdominal segments 1 to 5 is produced into an antrorse spine; on segments 2 to 5 there is a cusp on the posterior part of the spine, low and smooth (seemingly worn) in some specimens, strong and sharp in others. The carina of the sixth segment is a double row of strong denticles. The telson has two strong denticles, one behind the other. The mid-anterior margin of the second abdominal pleuron is produced into a strong spine.

The merus of the cheliped has one or two fine spinules on the upper proximal margin.

One specimen, a 27.5 mm male (AM P26771), has three, rather than two, pairs of spines on the mid-dorsal carina. Two of the three pairs are very close together. In all other respects this specimen is a typical *S. suhmi*.

Colour. (Based on AM P25046). Carapace, abdominal segments and telson a uniform pale whitish pink; all spines of carapace and abdominal terga a darker rose pink. Endopods and inner three-quarters of exopods of

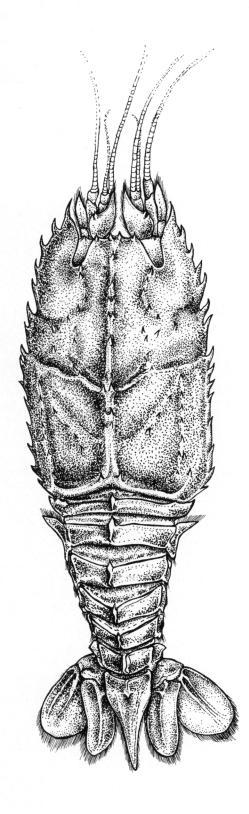


Fig. 14. Stereomastis suhmi (Bate), female, cl. 25 mm, AM P25046, dorsal view.

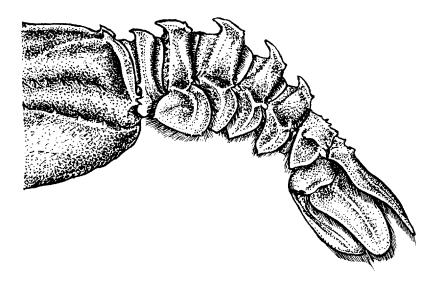


Fig. 15. Stereomastis suhmi (Bate), female, cl. 25 mm, AM P25046, lateral view of abdomen.

uropods whitish (almost transparent), entire outer edge of exopods trimmed in dark rose pink.

Ischium, anterior portion of merus and palm of propodus of cheliped pale, almost white; distal end of merus and carpus pale pink; fingers of cheliped also pale pink, fading to white at tips.

Distribution. South Atlantic Ocean: South Africa (Cape Point); western Pacific Ocean: south-eastern Australia; south-eastern Pacific Ocean: south-western coast of South America (west coast of Patagonia, coast of Chile); 293–2195 m.

Willemoesia Grote, 1873

The genus contains eight species, of which only one is known from the Indo-West Pacific region. One species, *Willemoesia leptodactyla* (Willemoes-Suhm, 1873) has been reported from Australia, but this material is shown here to be *W. bonaspei* Kensley, 1968.

Willemoesia bonaspei Kensley

Figs 16,17

Willemoesia leptodactyla. Bage, 1938: 9. (Not W. leptodactyla [Willemoes-Suhm, 1873]).

Willemoesia bonaspei Kensley, 1968: 294, figs 4, 5.-Kensley, 1981: 29.-Gore, 1984: 6 (table 2).

Material examined. One male, cl. 50 mm, total length 112 mm, AM P11316, south-west of Eyre Peninsula, South Australia, Great Australian Bight, 35°55.5'S 134°18'E, 3240 m, Station 13, Australasian Antarctic Expedition, 1911–1914, 24 February 1914.

Description. Although this specimen is not from eastern Australia it is included here because the single specimen described by Bage (1938) as *W. leptodactyla* is the only record of the genus from Australian waters and Bage's description of it was very brief.

Dorsal surface of carapace covered by numerous small, forwardly curved spinules. Rostral spine single, large (tip broken). Frontal margin of carapace produced, with a strong spine on internal orbital angle. Anterolateral angle of carapace formed by a large spine, the largest on the carapace; carapace in profile is slightly arched. Basal segment of antennular peduncle serrate along its medial edge, no spines or spinules on antero-external angle.

Spine formula of lateral edges of carapace 8–9:6:23–25. Spine formula of mid-dorsal carina (excluding the rostral spine) 1,1,1,2,1,1 before the cervical groove; irregularly paired spinules arranged irregularly behind groove, two or three slightly more prominent than others. Posterior edge of carapace smooth. Gastro-orbital carinae of carapace prominent and bearing spinules of the same kind as on rest of carapace. Superior branchial carina bearing 20–23 spines and spinules.

Abdominal terga smooth, with terga 2 to 4 bearing faint obliquely transverse grooves. All terga with a middorsal carina; carinae of terga 1 to 4 culminating in an antrorse spine; spine of the fourth tergum reduced; dorsal surface of the first to third carinae slightly uneven; fifth carina a low blunt ridge; sixth carina a smooth hump. Surface of abdominal pleura smooth with weakly elevated curved ridges mesially; edges unarmed. Telson longer than uropods and sharply pointed. (Chelipeds missing from the specimen).

Remarks. Bate (1888) based his description of *W. leptodactyla* on a female specimen taken at *Challenger*

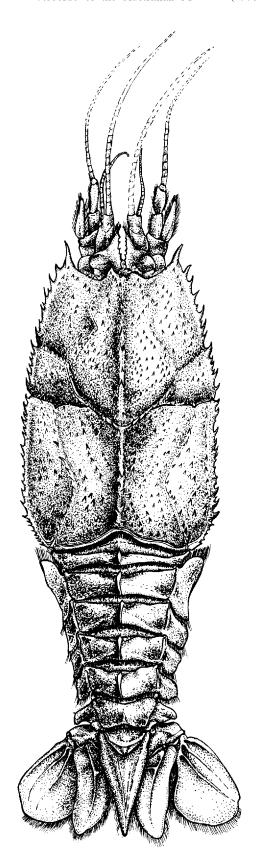


Fig. 16. Willemoesia bonaspei Kensley, male, cl. 50 mm, AM P11316, dorsal view.

station 13 (mid North Atlantic Ocean) and figured on plates 18 and 19C". Bate also briefly discussed what he called a "... decided variety of Willemoesia leptodactyla", a large male specimen collected at Challenger station 300 (off Valparaiso, south-east Pacific Ocean). The anterior portion of the dorsal carapace of this specimen is illustrated on plate 19 figure C (Bate, 1888). Sund (1920) made this specimen the type of a new species, W. pacifica. Kensley (1968) described W. bonaspei from off south-western South Africa. Bage's (1938) southern Australian specimen is clearly not W. leptodactyla but is very close to both W. pacifica and W. bonaspei. The overall length of the specimen, the finely spinulose dorsal surface, the number of spines on the lateral margins of the carapace, and the presence of tiny spines on the branchial ridge match both W. pacifica and W. bonaspei.

The shape of the frontal margin is more similar to that of *W. bonaspei* than to *W. pacifica*, especially the distinctly concave inner margins of the two large submedian spines. The spination of the mid-dorsal carina of the carapace fits to the range given for *W. bonaspei*, but not so well to that of *W. pacifica*. Sund (1920: 223) described the first abdominal somite of *W. pacifica* as having dorsally "a well-developed hook"; both *W. bonaspei* and Bage's specimen have a small forwardly-directed tooth.

This species is very close to *W. pacifica* and, as suggested by Kensley, may be found to be synonymous with it when more material becomes available.

Distribution. South-eastern Atlantic Ocean: west of Cape Point, South Africa; western Pacific Ocean: southern Australia; 2800–3520 m.

Family SCYLLARIDAE

Ibacus Leach, 1815

The genus contains six species, all known from the Indo-West Pacific region. Five species have been reported from Australia: *Ibacus alticrenatus* Bate, 1888, from western and north-western, eastern and southern Australia (Grant, 1905; George & Griffin, 1972; Holthuis, 1985; Wadley & Evans, 1991); *I. brucei* Holthuis, 1977, from eastern Australia (Holthuis, 1977, 1985); *I. ciliatus pubescens* Holthuis, 1960, from north-western Australia (Holthuis, 1985; Wadley & Evans, 1991); *I. novemdentatus* Gibbes, 1850, from western and north-western Australia (Phillips *et al.*, 1981; Holthuis, 1985); *I. peronii* Leach, 1815, from south-western, southern and south-eastern Australia (many authors, summarised in Holthuis, 1985).

Ibacus brucei has been taken in New South Wales waters by the FRV *Kapala*, but it has not been recorded below 190 m.

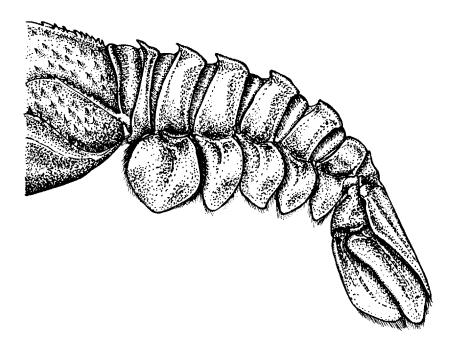


Fig. 17. Willemoesia bonaspei Kensley, male, cl. 50 mm, AM P11316, lateral view.

Ibacus alticrenatus Bate

Ibaccus alticrenatus Bate, 1888: 63, pl. 9 fig. 2.
Ibacus alticrenatus.—Powell, 1947: 37, fig. 184.—Dell, 1955: 148.—Yaldwyn, 1961: 3 (key).—Holthuis, 1985: 23 (key), 36, fig. 9.—Holthuis, 1991: 197 (key), 200, figs 376,382.
Ibacus alticrenatus septemdentatus Grant, 1905: 322, pl. 11 fig. 1.
Ibacus altricrenatus.—George & Griffin, 1972: 228.

Material examined. One ovigerous female, cl. 44 mm, 1 female, cl. 42 mm, 1 male, cl. 43 mm, AM P17911, east of Port Stephens, 32°46'S 152°42'E, 585-576 m, 7 May 1971, FRV Kapala, stn K71-09-01; 1 female, cl. 36 mm, AM P17908, north-east of Port Jackson, 33°41'S 151°55'E to 33°44'S 151°53'E, 540 m, 20 April 1971, FRV Kapala, stn K71-07-01; 4 females, cl. 37.5-43.5 mm, 3 males, cl. 25.5-37 mm, AM P18987, east of Port Jackson, 33°44'S 151°48'E to 33°48'S 151°45'E, 162 m, 10 August 1972, FRV Kapala, stn K72-02-13; 3 females, cl. 19-39 mm, 1 male, cl. 33.5 mm, AM P17964, south-east of Port Hacking, 33°15'S 151°25'E to 34°20'S 151°21'E, 261–279 m, 28 June 1971, FRV Kapala, stn K71-10-02; 1 male, cl. 33 mm, AM P17968, north-east of Jervis Bay, 34°56'S 151°06'E to 35°02'S 151°05'E, 300-297 m, 8 July 1971, FRV Kapala, stn K71-11-08; 1 male, cl. 16 mm, AM P19620, east of Port Jackson, 33°51'S 151°51'E to 33°15'S 151°55'E, 680 m, 19 October 1972, FRV Kapala, stn K72-06-03.

Remarks. *Ibacus alticrenatus* is well described and figured by Bate (1888) and Holthuis (1985).

Distribution. South-west Pacific Ocean: south-eastern Australia, New Zealand; 20–680 m, mainly between 175 and 540 m.

Scyllarus Fabricius, 1775

The genus contains about 40 species, 26 of which are known from the Indo-West Pacific region. Most are shallow-water species. One species, *Scyllarus mawsoni* (Bage, 1938), has been reported from deep water off south-eastern Australia.

Scyllarus mawsoni (Bage)

Arctus mawsoni Bage, 1938: 10, pl. 4 figs 2,2a. Scyllarus mawsoni.-Hale, 1941: 272, pl. 3 figs 1,2.-Holthuis, 1946: 88.

Material examined. One ovigerous female, cl. 24.5 mm, 2 males, cl. 12 and 13 mm, AM P24397, AM P24396, northeast of Brush Island, 35°29'S 150°47'E to 35°32'S 150°45'E, 324 m, 8 June 1976, *Kapala*, K76-08-01; 4 females, cl. 17.5–18.5 mm, 1 male, cl. 15 mm, AM P25040, east of Brush Island, 35°30'S 150°45'E to 35°32'S 150°44'E, 324 m, 10 November 1976, FRV *Kapala*, stn K76-19-01; 2 females, cl. 15 and 17 mm, AM P25031, east of Brush Island, 35°32'S 150°45'E to 35°34'S 150°43'E, 270 m, 1 December 1976, FRV *Kapala*, stn K76-22-03; 1 ovigerous female, cl. 19 mm, AM P25043, 20 miles south of Lawrence Rocks, Portland, Victoria [approx. 38°21'S 141°36'E], 182–219 m, May 1976.

Remarks. Bage's (1938) original description of this species is very brief, and her figures do not show much detail. Hale (1941) made some additional comments and gave additional figures but the species is at present still inadequately described and figured. Dr Holthuis is dealing with this species in a forthcoming paper.

Distribution. South-west Pacific Ocean: south-eastern and southern Australia; 108–540 m.

Discussion

The lobster fauna comprises three groups: shallow-water tropical reef forms, especially species of *Panulirus* (spiny or rock lobsters); a variety of other species—mostly temperate shallow-water forms of palinurids and scyllarids; and a variety of deep-sea species. The twenty-three species reported here bring the total number of species of deep-sea lobsters known from Australia to thirty-five, increasing the known archibenthal fauna by ten species.

The deep-sea lobsters of Australia clearly constitute a typical archibenthal fauna, the genera represented and their zoogeographic affinities being essentially those found in the archibenthal lobster faunas of other regions. Twenty-five (71%) of the thirty-five species are contained in five (38%) genera (Metanephrops, Nephropsis, Polycheles, Stereomastis and Ibacus).

Of the 35 species recorded from Australia, 8 are

known only from Australia; 19 from Australia and other Indo-West Pacific areas; 5 from Australia, the Indo-West Pacific and Atlantic Oceans; one from Australia, the Indo-West Pacific and North Central Pacific Ocean; one from Australia, the eastern Pacific and Atlantic Oceans; and one from Australia and the Atlantic Ocean. So far as it is known, the Australian deep-water lobster fauna is predominantly part of the general Indo-West Pacific fauna. Its outlying connections with the Atlantic Ocean are mostly via south-western Africa rather than via the eastern Pacific Ocean and southern South America.

Of the seven Australian species also known from the Atlantic Ocean, three (*Polycheles granulatus*, *P. typhlops* and *Stereomastis sculpta*) are geographically very widespread in both the Atlantic and Indo-West Pacific Oceans; the other four (*Projasus parkeri*, *Stereomastis nana*, *S. suhmi* and *Willemoesia bonaspei*) have a southern distribution, their Atlantic Ocean records all being from off south-western Africa. Only two of the eastern Australian deep-water lobster species (*Projasus parkeri* and *Ibacus alticrenatus*) are also found in New Zealand. The distribution of all reported Australian species is summarised in Table 1.

Key to species of lobsters recorded from Australian waters below 200 meters

(Based largely on keys provided in Holthuis [1991], Chan & Yu [1991] and Macpherson [1993]) Pereopod 3 chelate ________2 Telson without spines. Eyes strongly reduced, without pigment. Chelipeds very unequal, the larger with fingers more than 4 — Telson with lateral and/or postlateral spines. Eyes well developed or reduced. Chelipeds equal or unequal, fingers less Rostrum laterally compressed for most of its length, with dorsal teeth (ventral teeth present, lateral teeth absent). Carapace with branchiostegal spine. Lateral margins of telson Rostrum dorsoventrally compressed, without dorsal teeth (ventral and lateral teeth present or absent). Carapace without branchiostegal spine. Lateral margins of telson with 3 or less

5.	Scaphocerite absent. Carapace without postorbital spine. Abdominal sternites unarmed in both sexes. Second maxilliped without podobranch 6					
	- Scaphocerite present. Carapace with distinct postorbital spine. Abdominal sternites 2 to 5 in male each with a sharp median spine. Second maxilliped usually with podobranch					
6.	Exopod of uropod with a diaeresis					
	- Exopod of uropod without a diaeresis					
7.	Dorsal surface of telson with a well-developed spine Nephropsis acanthura Macpherson					
	- Dorsal surface of telson without a well-developed spine					
8.	Rostrum with two pairs of lateral spines					
	- Rostrum with one pair of lateral spines					
9.	Abdominal somites with a median dorsal carina Nephropsis holthuisi Macpherson					
	- Abdominal somites without a median dorsal carina					
10.	Carapace with subdorsal carinae granular					
	- Carapace with at least 3 with well-developed spines on each subdorsal carina					
11.	Carapace smooth between the ridges and large spines					
	- Carapace rather uniformly spinose					
12.	Chelae of first pereopods heavily ridged and spinulose					
	- Chelae of first pereopods weakly ridged and finely granular					
13.	First pereopod with distinct spine in middle of inner margin of merus. Posterior margin of cervical groove with 4–7 spinules					
	-First pereopod without a distinct spine in middle of inner margin of merus. Posterior margin of cervical groove smooth					
14.	Region of carapace between postrostral carinae heavily spinulose					
	-Region of carapace between postrostral carinae smooth Metanephrops australiensis (Bruce)					
15.	Antennal flagellum reduced to a single broad flat segment, similar to the peduncular segments					
	- Antennal flagellum long, multi-articulate					

16.	Exopods of all maxillipeds with a multi-articulate flagellum. Carapace strongly depressed dorsoventrally. Lateral margin of carapace with deep cervical incision, without postcervical incision	17
	Exopod of third and first maxilliped without a flagellum; flagellum of second maxilliped a single laminate segment. Carapace not strongly depressed dorsoventrally, rather high and vaulted. Lateral margin of carapace with shallow cervical and postcervical incisions.	Scyllarus spp.
17.	Merus of third maxilliped with ventral surface slightly concave, not swollen; inner margin sometimes crenulate but not with deep incisions	18
	- Merus of third maxilliped swollen; inner margin with deep incisions	19
18.	Cervical incision wide, anterior margin forming posterior margin of anterolateral angle of carapace, thus no lateral margin between the anterolateral angle and the cervical incision. Carapace with 7–9 posterolateral teeth	<i>lbacus alticrenatus</i> Bate
	-Cervical incision narrow, anterior margin reaching lateral margin some distance behind the anterolateral angle; toothed lateral margin present between the anterolateral angle and the cervical incision. Carapace with 11–13 posterolateral teeth	s ciliatus pubescens Holthuis
19.	Anterior teeth of epistome directed forwards. Posterior branchial carinae of carapace straight or only slightly convex, lying in one line with anterior branchial carinae. Posterior incision of orbit without tubercle. Lateral margin of carapace with 8 (rarely 7) posterolateral teeth	Ibacus novemdentatus Gibbes
	- Anterior teeth of epistome directed ventrally. Posterior branchial carinae of carapace strongly convex, not lying in one line with anterior branchial carinae. Posterior incision of orbit with distinct tubercle. Lateral margin of carapace with 6 or 7 (rarely 8) posterolateral teeth	<i>Ibacus peronii</i> Leach
20.	Epistome long, about 1/3 carapace length. Eyes on a median elevation of the cephalon	Forest & de Saint Laurent
	- Epistome short, much less than 1/3 carapace length. Eyes not on elevation of the cephalon	21
21.	Frontal horns fused to form a broad 2- or 4-spined median projection on anterior margin of carapace between the eyes. Antennal flagella straight, inflexible	22
	- Two distinct widely separated frontal horns present, with anterior margin visible between them. Antennal flagella flexible	23

22.	Epistomal ridges coarsely granular, without an acute well-developed anterior tooth. Chitinous margin of male genital aperture with toothed median border and smooth lateral border
	- Epistomal ridges weakly granular, with an acute well-developed anterior tooth. Chitinous margin of male genital aperture toothed throughout its length
23.	Antennular plate distinct; a stridulating organ present. Carapace with median ridge behind the cervical groove; often with spines or tubercles but without submedian ridges
	Antennular plate hardly, if at all, visible in dorsal view; stridulating organ absent. Carapace without a median ridge behind cervical groove; with 2 submedian ridges, each bearing a row of large, sharply pointed teeth or numerous spinules
24.	Postorbital spine present. Median keel of carapace without teeth, with 6 postcervical and 6 intestinal tubercles. Tubercles on carapace low and mostly obscured by pubescence. Eyes large, much broader than long
-	Postorbital spine absent. Median keel of carapace with 3–5 postcervical and 2–4 intestinal teeth. Tubercles on carapace distinct, not obscured by pubescence. Eyes small, longer than broad
25.	Frontal margin of carapace with 1 rostral spine
	- Frontal margin of carapace with 2 rostral spines
26.	Anterior margin of carapace with deep V-shaped orbital notches divided into two parts by interlocking spines on the margins. Posterior margin of carapace spinose
	- Anterior margin of carapace without deep orbital notches, with broad shallow non-spinose excavations. Posterior margin of carapace smooth
27.	Lateral borders of carapace with more than 20 spines
	- Lateral borders of carapace with less than 20 spines
28.	Posterior margin of carapace smooth
	- Posterior margin of carapace spinose
29.	Anterior margin of carapace spinose between outer angle of orbital notch and anterolateral spine. Lateral margin of carapace, between postcervical groove and posterior margin, with 20–25 spines
	- Anterior margin of carapace smooth, without spines, between outer angle of orbital notch and anterolateral spine. Lateral margin of carapace, between postcervical groove and posterior margin, with 13–16 spines

30.	Mid-dorsal carina of carapace, between rostral spines and cervical groove, with spine formula 1,1,2,1
	- Mid-dorsal carina of carapace, between rostral spines and cervical groove, with spine formula 1,2,1
31.	Dorsal carinae of abdominal segments 1 to 5 produced into an anteriorly projecting hook
	- Dorsal carinae of abdominal segments 1 to 4 produced into an anteriorly projecting hook
32.	Anterior margin of carapace with small spine at inner angle of orbital notch
	- Anterior margin of carapace without spine at inner angle of orbital notch
33.	Anteroventral margin of second abdominal pleuron broadly rounded
	- Anteroventral margin of second abdominal pleuron excavate

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Table 1. Geographical distribution of Australian deep-sea lobsters. AO: Atlantic Ocean; IO: Indian Ocean; In: south-east Asia, from South China Sea to Indonesia; WA: western and western southern Australia; EA: eastern and eastern southern Australia; WP: western Pacific Ocean other than eastern Australia; CP: north-central Pacific Ocean; EP: eastern Pacific Ocean.

Geographic region:	AO	Ю	In	WA	EA	WP	CP	EP
GLYPHEIDAE								
Neoglyphea inopinata	-	_	×	×	_	-	***	-
NEPHROPIDAE								
Acanthacaris tenuimana	_	×	×	_	×	×	-	
Metanephrops australiensis	_	_	_	×	_	_	_	_
Metanephrops boschmai	_	_	_	×	_	_	_	_
Metanephrops neptunus		_		×	_	_	_	_
Metanephrops sibogae	_	_	×	×	×	_	_	_
Metanephrops velutinus	_	_	×	×	×	_	-	_
Nephropsis acanthura	_	×	×	×	×	×	_	_
Nephropsis holthuisi	_	_	_	×	×	_	-	_
Nephropsis serrata	_	_	_	×	_	_	_	_
Nephropsis stewarti		×	×	×	_	×	_	_
Nephropsis suhmi	_	×	×	-	×	×	-	_
Nephropsis sulcata	_	×	×	_	×	×	-	_
PALINURIDAE								
Linuparus sordidus		***	_	×	×	×	~	_
Linuparus trigonus	_	_	_	×	×	×	_	_
Projasus parkeri	×	×	_	_	×	×	_	-
Puerulus angulatus	_	×	×	×	×	×	~-	_
Puerulus velutinus	_	-	×	×	_	_	~	_
POLYCHELIDAE								
Polycheles baccatus		_	×	_	×	×	-	_
Polycheles euthrix	_	_	_	_	×	×		_
Polycheles granulatus	×	×	_	_	×	×		_
Polycheles typhlops typhlops	×	×		_	×	×	-	_
Stereomastis andamanensis	_	×	×	_	×		-	_
Stereomastis helleri	_	_	_	_	×	×	-	_
Stereomastis phosphorus	_	×	_	×	×		×	_
Stereomastis nana	×	_	_	×	_	×	-	
Stereomastis sculpta	×	_	×	_	×	_	_	_
Stereomastis suhmi	×			_	×	_		×
Willemoesia bonaspei	×	-	-	-	×	-	-	-
SCYLLARIDAE								
Ibacus alticrenatus	_	_	_	×	×	×		-
Ibacus ciliatus pubescens	_		×	×	_	_	~	_
Ibacus novemdentatus	_	×	×	×	-	×	-	_
Ibacus peronii	_	_	_	×	×	_	_	_
Scyllarus mawsoni	_	-	-	_	×	_	~	_
THAUMASTOCHELIDAE								
Thaumastochelopsis wardi	_	_	_	_	×	_	_	_