

南海原新糠虾属新种和新记录*

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原新糠虾属 *Proneomysis* 属于糠虾科 Mysidae 糠虾族 Mysini, 它的第2触角鳞片披针形, 周围具羽状刚毛, 末节小, 顶端圆形; 尾节末端完全, 无缺刻, 呈三角形或舌状, 与刺糠虾 *Acanthomysis* 近似。但雄性第4腹肢外肢由3节构成, 第3节末端具2根带小刺的长刚毛, 与后者显著不同。这个属自 Tattersall, 1933 建立以来已知共14种, 其中除模式种 *P. wailesi* 分布于加拿大沿岸水域, *P. quadrispinosa* Ii 产于印度尼西亚附近水域外, 其余12种都发现于日本沿岸浅水区, 这些亚洲种雄性第5腹肢不具变形刚毛, 与美洲种显著不同。

我们在南海采集的标本中发现2种原新糠虾, 即中国原新糠虾(新种) *P. sinensis* sp. nov. 和四刺原新糠虾 *Proneomysis quadrispinosa* Ii, 1964。现描述如下。

1. 中国原新糠虾(新种) *Proneomysis sinensis* sp. nov. (图1)

正模标本 成体雄性, 体长5毫米。标本号 L53P-7, 南海 21°30'N, 112°00'E, 水深24米, 底质软泥, 1959年4月19日采收。

副模标本 成体雌性, 体长6.2毫米。标本号 N24P-4, 南海 21°15'N, 110°45'E, 水深12米, 底质砂质泥, 1959年4月17日采收; 成体雄性, 体长6.0毫米。标本号 K114P-5, 南海 21°30'N, 112°00'E, 水深23米, 1959年11月7日采收。

其他材料 50♂♂, 57♀♀, 4幼, 南海自珠江口至北部湾近岸水域, 水深12—34米。1959年1月至1960年5月采收。

最大标本体长6.2毫米。身体较纤细, 表面光滑。额板宽三角形, 不特别突出, 顶端钝圆, 向下弯, 稍覆盖眼柄和第1触角柄的基部。头胸甲前侧角圆。眼较大, 其长大于宽, 角膜肾形, 稍宽于眼柄, 约占全长的1/3—1/2。雄性第1触角柄较粗壮, 雌性者略纤细。柄的末节较粗, 长约为宽的1¼—1½倍, 长于第1节。第2触角鳞片窄披针形, 明显地超过第1触角柄的末端, 长约为宽的4倍, 末节小, 长宽略等; 触角柄较短, 约为鳞片长的3/5左右。上唇长大于宽, 中央刺突粗大, 刺短于上唇本身。

第3—8胸肢内肢掌节由3小节构成。腹部光滑, 无沟或褶。雄性第4腹肢外肢基节较长, 约为末2节和的3倍, 第2, 3两节较短, 第3节长于第2节, 各节末端两侧具纤细的刚毛, 末节末端具2根不等长的刚毛。雄性第5腹肢与雌性相似, 无特别长的变形刚毛。

尾节窄舌状, 其长为基部宽的2倍, 约为第6腹节的1½倍。侧缘全长有刺, 基部侧刺大小相似, 末部2/3大小刺相间排列成组, 在两大刺间有1—5个小刺, 近末端的大刺特

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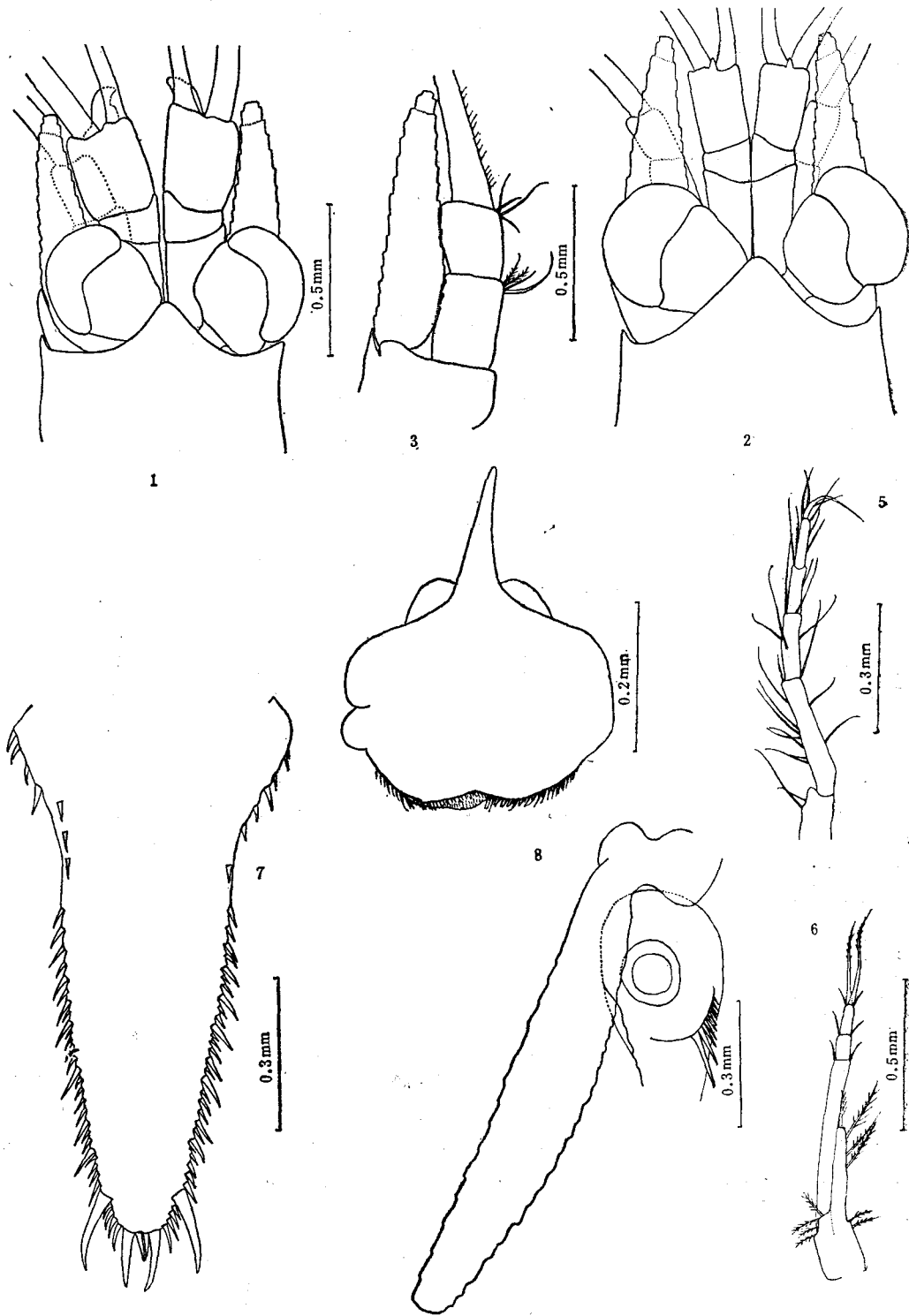


图1 中国原新糠虾 (新种) *Proneomysis sinensis* sp. nov.
 1. 雄性头部背面; 2. 雌性头部背面; 3. 第2触角; 4. 上唇;
 5. 第3胸肢内肢; 6. 雄性第4腹肢; 7. 尾节; 8. 尾肢内肢。

别粗大,显著粗大于末端外侧大刺。尾节末端窄而平截,末端宽约为基部宽的 1/10,具 2 对不等长的刺,内对较小,侧对较大,小刺长度约为大刺的 1/2。尾肢内肢内缘有 9—13 尖刺,由前向后依次增大。

本属中,尾节侧缘末部有特大粗刺的种除本新种外,还有 *P. fusca* Li, *P. surugensis* Murano 和 *P. quadrispinosa* Li 三种。*P. fusca* Li 尾节显著短(长为宽的 $1\frac{3}{4}$ 倍),额板长而尖,与本新种差别较大。本新种与 *P. quadrispinosa* 和 *P. surugensis* 颇为近似,但额板的形状、雄性第 4 腹肢各节的长度比例,尾肢内肢内缘刺数都有显著不同,现比较如下:

	四刺原新糠虾 <i>Proneomysis quadrispinosa</i> Li	骏河原新糠虾 <i>P. surugensis</i> Murano	中国原新糠虾 <i>P. sinensis</i> sp. nov.
1. 额板	较宽,末端钝圆。	较窄,末端稍尖。	较宽,末端钝圆。
2. 雄性第 4 腹肢	基节和末 2 节都较细长,其长约与末 2 节的和略等。	基节和末 2 节都较粗短,其长约为末 2 节的 $1\frac{1}{2}$ 倍,第 2 节长于第 3 节。	基节较长,末 2 节显著较短,其长约为末 2 节的 3 倍,第 2 节短于第 3 节。
3. 尾节	长约为基部宽的 2 倍。	$1\frac{1}{2}$ 倍。	2 倍。
4. 尾肢内肢	内缘有 3—5 刺。	11—15 刺。	9—13 刺。

2. 四刺原新糠虾 *Proneomysis quadrispinosa* Li, 1964 (图 2)

Proneomysis quadrispinosa Li, 1964, 541, fig. 143. —Murano, 1977: 226 (in key).

标本采集地 南海自珠江口至北部湾近岸水域,水深 6—69 米,1959 年 2 月至 1960 年 10 月采获大量的标本。

最大标本体长雄性 7 毫米,雌性 6 毫米。身体适度纤细,甲壳表面光滑。额板三角形,顶端钝圆,侧缘稍凹,覆盖眼柄的基部。头胸甲前侧角圆。眼大,长约为宽的 $1\frac{1}{2}$ 到 $1\frac{3}{4}$ 倍,角膜肾形,约占全眼的 1/3。雄性第 1 触角柄显著地粗壮于雌性,第 1 节长为第 2 节的 $1\frac{1}{2}$ 倍,第 3 节稍长于第 1 节,雄性突起较小。第 2 触角鳞片窄披针形,长约为宽的 4 倍,末节长略大于宽。柄较粗壮,约为鳞片的 4/5,鳞片基节外缘具 1 明显的刺。在鳞片和柄的腹面基部之间也具 1 个钝刺。

第 3—8 胸肢内肢掌节由 3 小节构成;指节长刺状。腹部光滑,无沟或褶。雄性第 4 腹肢基节和末 2 节都较细长,基节与末 2 节的和略等。第 2, 3 节几乎等长,各节外末角具 1 细长的刚毛,第 3 节的末端具 2 根带小刺的刚毛,其长短不等,外侧刚毛较内侧刚毛短而纤细。末端伸至第 6 腹节的后面。雄性第 5 腹肢与雌性相似,没有特殊的变形刚毛。

尾节窄舌状,长约为基部宽的 2 倍,约为第 6 腹节的 $1\frac{1}{2}$ 倍。侧缘全长有刺,基部侧刺大小相似,末部 3/5 大小刺相间排列成组,在两大刺间有 1—5 个小刺,多数为 1 或 2 个,近末端的大侧刺特别粗大,显著粗大于末端外侧大刺。尾节末端窄而平截,末端宽约

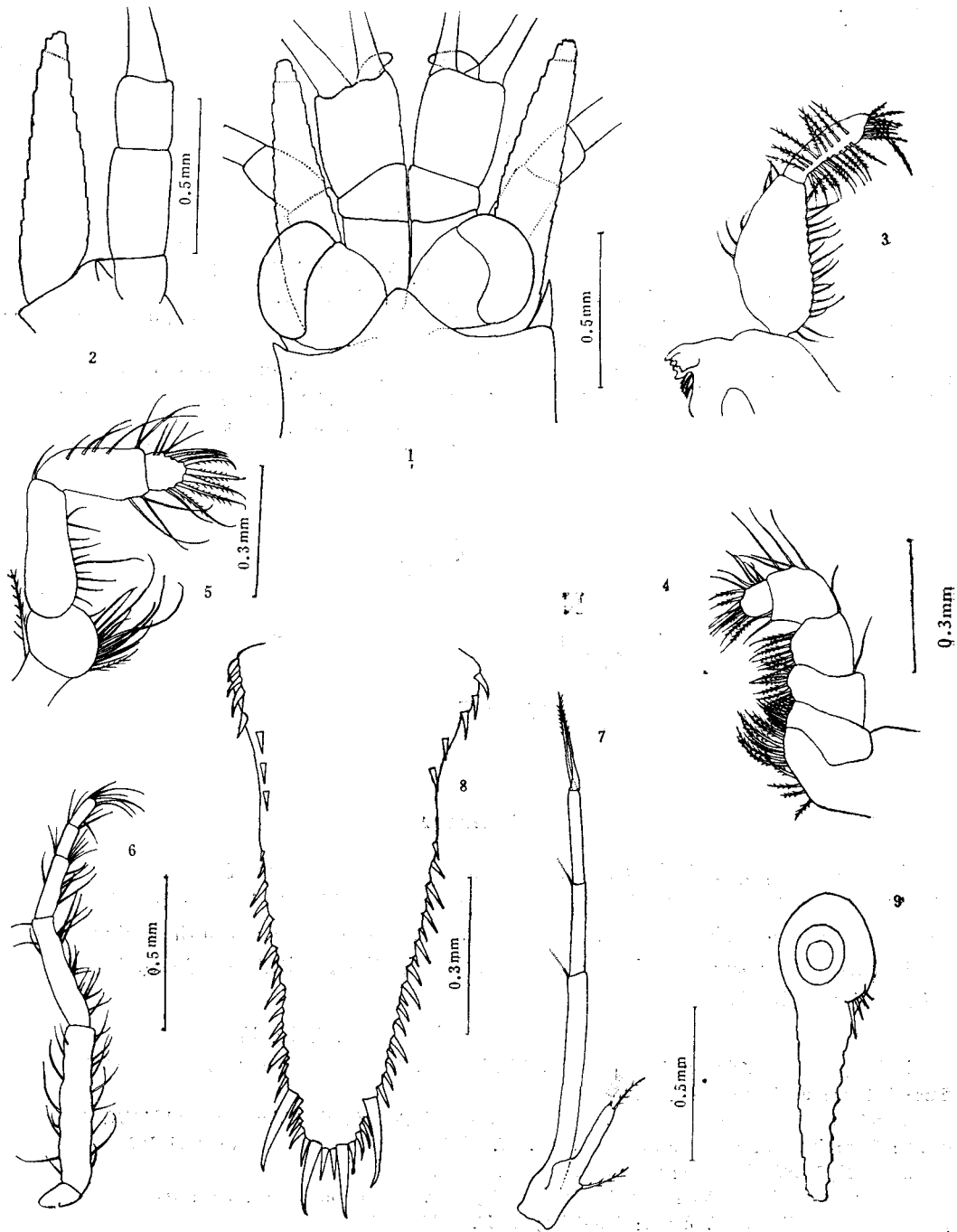


图2 四刺原新糠虾 *Proneomysis quadrispinosa* li

- 1. 雄性头部背面； 2. 第2触角； 3. 大颚触须； 4. 第1胸肢内肢； 5. 第2胸肢内肢；
- 6. 第5胸肢内肢； 7. 雄性第4腹肢； 8. 尾节； 9. 尾肢内肢。

为基部宽的 1/6, 具 2 对不等长的刺, 内对较小, 侧对较大, 小刺约为大刺的 1/2。尾肢内肢内缘有 3—5 刺, 多数为 4 刺。

我们的标本基本与 Ii 的原始描述和图一致, 但额角板较宽; 第 1 触角柄末端的雄性突起也较短小。

参 考 文 献

- [1] Ii, N., 1936. Studies on Japanese Mysidacea, I. Descriptions of new and some already known species belonging to the genera *Neomysis*, *Acanthomysis* and *Proneomysis*. *Jap. Journ. Zool.* 6: 577—619, 116 figs.
- [2] ———, 1940. Studies on Japanese Mysidacea, IV. Descriptions of three new species belonging to the tribe Mysini, *Jap. Journ. Zool.* 9: 153—173, 47 figs.
- [3] ———, 1964a. Report on a small collection of Mysidacea from coastal waters of Asamushi. *Bull. Mar. Biol. Sta. Asamushi*, Tohoku Univ. 12: 1—7, 2 figs.
- [4] ———, 1964b. Fauna japonica, Mysidae. 610 pp. 154 figs. Biogeogr. Soc. Japan, Tokyo.
- [5] Murano, M., 1977. Five new species belonging to the Genus *Proneomysis* (Crustacea, Mysidacea) from Japan. *Bull. Nat. Sci. Mus., ser. A (Zool.)* 3(4): 225—240, 9 figs.
- [6] Tattersall, W. M., 1933. Euphausiacea and Mysidacea from western Canada. *Contr. Can. Biol. and Fish.* 8(15): 1—25, 13 figs.

ON A NEW SPECIES AND A NEW RECORD OF THE GENUS *PRONEOMYSIS* FROM THE SOUTH CHINA SEA*

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ABSTRACT

The present paper deals with a new species and a new record of the Genus *Proneomysis* (Crustacea, Mysidacea). The materials upon which this study was based were collected from the shallow coastal waters of the northern South China Sea in 1959—1960. The type specimens are deposited in the Institute of Oceanology, Academia Sinica (Qingdao).

Proneomysis sinensis sp. nov. (Fig. 1)

Holotype Adult male, BL. 5.0mm. No. L53P-7. South China Sea, 21°30'N, 112°00'E; depth: 24m; bottom: mud; 1959. IV. 19.

Paratypes Adult female, BL. 6.2mm No. N24P-4. South China Sea, 21°15'N, 110°45'E; depth: 12m; bottom: sandy mud; 1959. IV. 17. adult male, BL. 6.0mm. No. K114P-5, South China Sea 21°30'N, 112°00'E. depth: 23 m bottom 1959. XI. 7.

Other materials 50 males, 57 females, 4 young. South China Sea, from the mouth of Pearl River to the Beibu Gulf. depth: 12—34m; 1959. I—1960. V.

Body slender, surface smooth. Rostral plate broadly triangular, apex bluntly rounded and curved down at apex, covering the basal part of the eye stalks and the antennular peduncles. Antero-lateral corner of the carapace rounded. Eyes large,

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longer than broad; cornea reniform, broader than stalk, about $1/3$ its total length. Antennular peduncle stout in male, slender in female, distal joint thick, longer than the first, $1\frac{1}{4}$ — $1\frac{1}{3}$ times as long as broad. Antennal scale narrow, lanceolate, surpassing distal end of antennular peduncle, much longer in female than in male, 4 times as long as wide, with distinct transverse suture; distal article small, about as long as broad, rounded at apex. Antennal peduncle short, $3/5$ as long as scale. Labrum longer than broad, median process stout, less than $1/2$ the total length.

3rd—8th thoracic limbs with the propodus divided into 3 subjoints. Exopod of 4th male pleopod 3-jointed, basal joint long, about 3 times as long as 2nd and 3rd joints combined. 2nd and 3rd joint very short, with 2 apical setae of different length; disto-lateral corner of each joint with a short seta.

Telson narrowly linguiform, twice as long as broad at base, $1\frac{2}{3}$ times as long as 6th abdominal somite; broad at base. Lateral margin armed with spines throughout its length, spines on basal part subequal in size, those on middle part compactly arranged, varying in size, arranged in groups, with 1—5 small spines between every 2 larger ones. Ultimate larger spine on lateral margin the stoutest, much longer than the outer apical one. Distal margin of telson truncated, armed with 2 pairs of spines, the inner pair the smaller, $1/2$ as long as the outer pair. Inner uropod with 9—13 sharp spines, increasing in size posteriorly, on inner margin near statocyst.

Proneomysis sinensis sp. nov. is very similar to *P. surugensis* Murano and *P. quadrispinosa* Ii, but they can be distinguished as follows:

	<i>P. quadrispinosa</i> Ii	<i>P. surugensis</i> Murano	<i>P. sinensis</i> sp. nov.
1. Rostral plate	broad, apex bluntly rounded;	narrow, apex slightly pointed.	broad, apex bluntly rounded.
2. 4th male pleopod	basal and 2 distal joints long and slender, basal joint equal in length to 2nd and 3rd combined together. 2nd as long as 3rd.	basal and 2 distal joints rather short, basal joints $1\frac{1}{2}$ times as long as 2 distal joints combined together. 2nd longer than 3rd.	basal joint longer, 2 distal joints distinctly shorter, basal joint 3 times as long as 2nd and 3rd joints combined. 2nd joint shorter than 3rd.
3. Telson	2 times as long as wide at base.	$1\frac{1}{3}$ times as long as wide at base.	2 times as long as wide at base.
4. Number of spines of inner margin of inner uropod	3—5 spines.	11—15 spines.	9—13 spines.