

西沙光螯蟹属一新种

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提要 本文报道在西沙群岛采集的甲壳动物标本中发现的长脚蟹科光螯蟹属一新种 *Litocheira xishaensis* sp. nov., 文内除详细描述新种的形态特征外, 还与近似种作了比较, 且有精细插图, 以资鉴别。

1982年春, 在西沙群岛进行蟹类的采集中, 发现长脚蟹科 Goneplacidae 光螯蟹属 *Litocheira* 一新种, 兹描述如下。模式标本存放于中国科学院动物研究所。

西沙光螯蟹(新种) *Litocheira xishaensis* sp. nov. (图 1:1—5)

正模♂ (GD820309), 配模♀, 1982年3月14日, 作者采自广东西沙群岛的金银岛。

西沙光螯蟹新种与四齿光螯蟹特征比较表

特征部位	西沙光螯蟹新种 <i>Litocheira xishaensis</i> sp. nov.	四齿光螯蟹 <i>Litocheira quadrispinosa</i> Zehnner
1. 螯足指节基部和掌部	无明显颗粒	有明显颗粒
2. 步足各节	相对较长	较短
第1—4对长节前缘	有末端刺	只有1—3对有末端刺
第1对长节前缘	2刺	3刺
第2对长节前缘	2刺	3刺
第3对长节前缘	2刺	2刺
第4对长节前缘	1刺	0刺
第1对长节后缘	3刺	6—7刺
第2对长节后缘	0刺	3刺
3. 雄性腹部	第6节宽大于长, 约2倍	宽大于长, 约1.6倍
4. 尾节	宽大于长	长大于宽

头胸甲近方形, 宽稍大于长, 背面隆起, 光滑, 具短刚毛。胃区具“八”字形黑褐色斑纹。在前侧齿附近和后侧缘附近, 均具黑褐色斑纹。额宽, 稍向下弯, 前缘中部被“V”形浅凹分成两叶。额后叶隆脊可辨。外眼窝齿平钝。前侧缘具2个锐刺, 后刺较小, 后侧缘光滑。螯足粗壮, 具长刚毛, 掌部具不明显的颗粒, 长节背面具3小刺, 腕节内末角具一长锐刺, 掌节粗壮, 指节内缘均具钝齿。步足细长, 具长刚毛, 尤以末3节浓密, 4对步足长节前缘, 均有末端刺一枚, 前3对长节前缘共具2刺(包括末端刺)。第1步足长节后缘有3刺, 其它对后缘均无刺。雄性腹肢细长, 末部向外弯转, 并具小刺, 末端较尖。腹部窄长呈三角形, 分7节, 第6节宽大于长, 约2倍; 尾节宽稍大于长, 末端钝圆。雌性腹部呈宽三角形。雄性头胸甲长3mm, 宽3.5mm。雌性头胸甲长3.1mm, 宽3.7mm。

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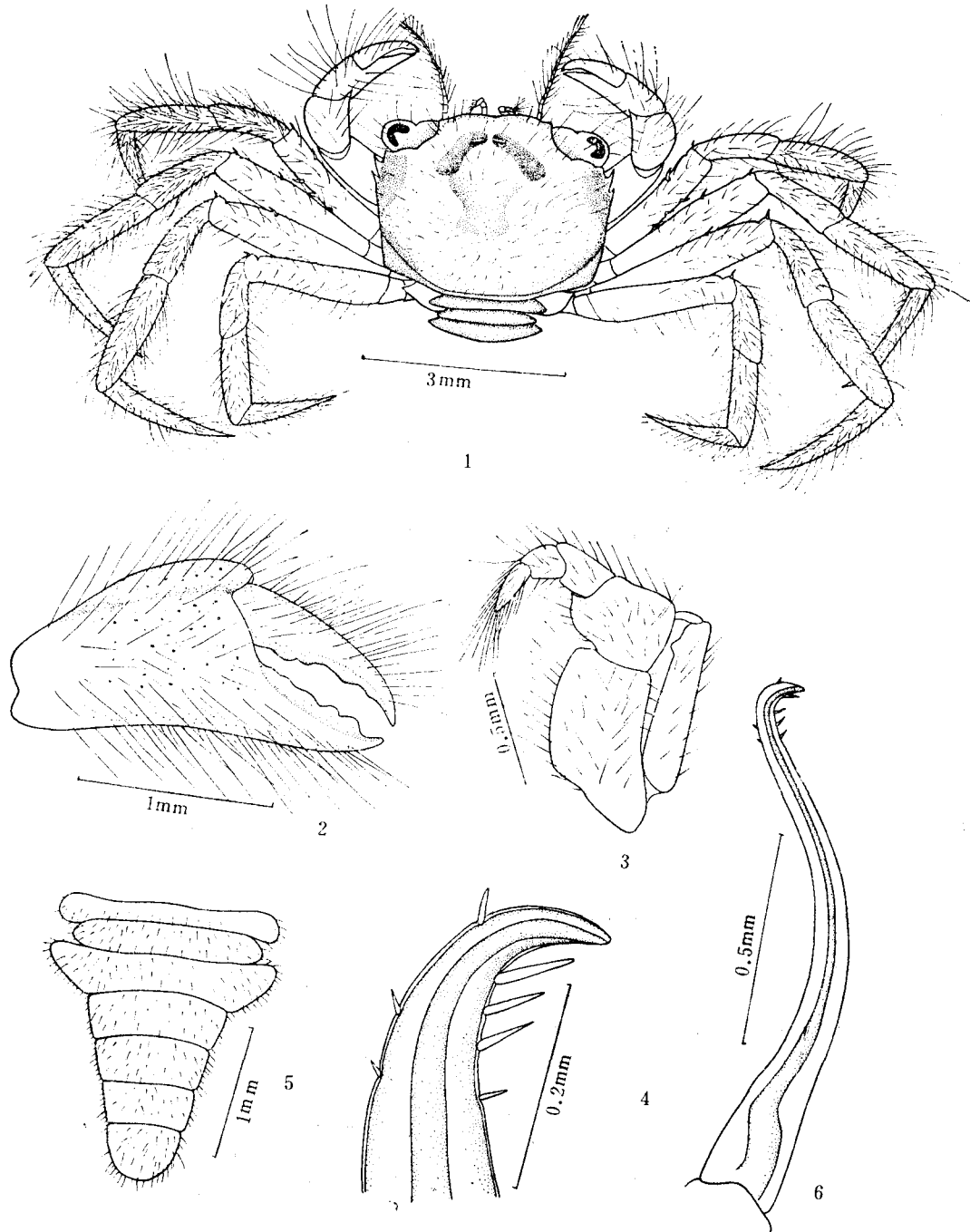


图1 西沙光螯蟹(新种) *Litocheira xishaensis* sp. nov.

1. 雄性整体背面观 (male, dorsal view); 2. 大螯侧面观 (lateral view of larger chela); 3. 第3颚足 (third maxilliped); 4. 第1腹肢及末端放大 (first pleopod and its enlarged distal end); 5. 腹部(abdomen),

生活于低潮以下的笙珊瑚 *Tubipora musica* Linneus 并附海藻处。

本种与四齿光螯蟹 *Litocheira quadrispinosa* Zehntner 十分近似, 但它们有显著不同,

其特征比较见 126 页表。

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A NEW SPECIES OF *LITOCHEIRA* (DECAPODA: GONEPLACIDAE) FROM THE XISHA ISLANDS, GUANGDONG PROVINCE, CHINA

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ABSTRACT

During the spring of 1982, a collection of crabs from Xisha Islands, Guangdong Province, China, was carried out. A new species of *Litocheira* belonging to the Goneplacidae was found and described. The type specimens are deposited in the Institute of Zoology, Academia Sinica, Beijing.

Litocheira xishaensis sp. nov. (Fig. 1:1—5)

Holotype ♂ (GD 820309), allotype ♀. collected from Jinyin Island, Xisha Islands, Guangdong Province, on March 14, 1982.

Carapace subquadrate, convex and smooth, with short setae. Front wide, deflected and divided into two lobes by a V-shaped shallow notch from middle. Anterolateral margin with two acute spines, the posterior one smaller. Chelipeds short and strong, with long setae; palm with indistinct granules; merus with three spines on its dorsal surface, inner border of fingers with blunt teeth. Ambulatory legs slender and with long setae, each merus of the first four legs with one spine on its distal anterior margin; merus of first leg with one spine on its anterior margin, three spines on posterior margin, the first spine very small; merus of the second and third legs each with one spine on its anterior margin. Male first pleopod slender, its distal part curved outwards and pointed. Abdomen of male narrow and long triangular, with seven distinct segments, the breadth of sixth segment about 2 times its length; telson bluntly rounded. Abdomen of the female broad triangular.

The new species is closely related to *Litocheira quadrispinosa* Zehntner 1894, but differs from the latter in the following:

Characteristics	<i>Litocheira xishaensis</i> sp. nov.	<i>Litocheira quadrispinosa</i> Zehntner
1. Basal portion of finger and palm of chelipeds	with indistinct granules	with distinct granules (Tesch, 1918)
2. Each segment of ambulatory legs	longer	shorter
Anterior margin of merus of the first four pairs of ambulatory legs	with distal spine	only the first three pairs of them with spine
Anterior margin of merus of the first ambulatory leg (including end spine)	with two spines	with three spines
Anterior margin of merus of the second ambulatory leg (including end spine)	with two spines	with three spines
Anterior margin of merus of the third ambulatory leg (including end spine)	with two spines	with two spines
Anterior margin of merus of the fourth ambulatory leg (including end spine)	with one spine	without spine
Posterior margin of merus of the first ambulatory leg	with three spines	with sixth to seven spines
Posterior margin of merus of the second ambulatory leg	without spine	with three spines
The breadth of sixth segment of male abdomen	about 2 times its length broader	about 1.6 times its length longer
Telson segment	than long	than broad