

Huisan, C. 1979

CRUSTACEA LIBRARY
SMITHSONIAN INST.
RETURN TO W-119

三强蟹属一新种记述* (甲壳纲:短尾类)

陈惠莲

(中国科学院海洋研究所)

三强蟹属 Genus *Tritodynamia* 隶属于豆蟹科 Family Pinnotheridae 倒颚蟹亚科 Subfamily Asthenognathinae。本属自 Ortmann 于 1894 年建立以来,迄今共记载四种:日本三强蟹 *T. japonica* Ortmann, 1894, 霍氏三强蟹 *T. horvathi* Nobili, 1905 蓝氏三强蟹 *T. rathbunae* Shen, 1932 及中型三强蟹 *T. intermedia* Shen, 1935。后两种的模式标本采自我国山东省烟台。

中国科学院海洋研究所曾多次到福建省沿海进行调查采集,发现采自平潭东澳的一个雄性标本,其形态特征与已知四种均有显著区别,经详细研究,确定为新种。现描述如下:

福建三强蟹(新种) *Tritodynamia fujianensis* sp. nov. (图版 1)

模式标本 ♂(C00811),头胸甲长 9 毫米,宽 18 毫米,采自福建省平潭,1957 年 3 月 16 日。保存于中国科学院海洋研究所(青岛)。

头胸甲横卵圆形,宽为长的 2 倍,表面光滑,有少数细麻点,分区不明显,胃区有浅凹。额约与眼窝等宽,前缘平直,表面有一中央沟。侧缘有细颗粒隆线:前侧缘长于后侧缘,前、后侧缘交接处,向内有一斜行隆线,与后侧缘呈一三角形斜面。

第 3 颚足长节比座节长,指与掌长度略相等,均有长羽状毛。

螯足粗壮。长节内、外缘各有一丛长毛。腕节内缘基半部有颗粒。掌粗短,外缘甚隆,外侧面近外缘有一纵沟,沟里有毛,近内缘有一纵列光滑隆脊,无毛,内侧面中部有一纵沟,有毛。两指内缘均有小齿,可动指内缘基半部有两枚较大的钝齿,不动指的基部有两枚较大的齿。

步足以第 2 对最长,第 4 对最短。前两对步足长节后缘有锯齿状齿,尤以第 2 对的齿较大,齿数 43 枚,此节的边缘光滑无毛。掌节近前缘有一纵列刚毛,后缘仅在末部有毛。指节近前缘及后缘各有一列刚毛。第 3 对步足长节长为宽的 2 倍,各节均密布长刚毛。第 4 步足短小,也密具长刚毛。

雄性腹部分为 7 节:第 2 节最短;第 6 节两侧向外凸,中部微凹;末节钝三角形,长为宽的 3/4。雄性第 1 腹肢粗壮,末端钝圆,有羽状毛和长刚毛。

新种与 *T. rathbunae* Shen, 1932 很相似,但有下列几点主要差异:

* 中国科学院海洋研究所调查研究报告第 505 号。本文承刘瑞玉同志指导,范振刚、许界善同志采集标本,孟昭斌同志为图版复墨,特此致谢。

蓝氏三强蟹 <i>Tritodynamia rathbunae</i> Shen, 1932	福建三强蟹(新种) <i>Tritodynamia fujianensis</i> sp. nov.
1. 头胸甲宽为长的 1.8 倍。	头胸甲宽为长的 2 倍。
2. 雄性螯足两指合拢时, 空隙大; 雄性可动指内缘有一齿。	雄性螯足两指合拢时空隙小; 雄性可动指内缘有 2 齿。
3. 第 3 颚足掌较粗短, 短于指节。	第 3 颚足掌较瘦长, 其长度略等于指节。
4. 雄性腹部尾节半圆形。	雄性腹部尾节钝三角形。
5. 雄性第 1 腹肢末端突出, 中央有一缺刻。	雄性第 1 腹肢末端钝圆, 中央有一不明显的缺刻。

参 考 文 献

- [1] Ortmann, A., 1894. Die Decapoden Krebse Strassburger Museum. 8. *Zool. Jahrb. Syst.* 7: 683—772, pl. 1.
- [2] Sakai, T., 1934. Brachyura from the coast of Kyusyu. *Japan. Sci. Rept.* Tokyo Bunrika Daigaku, ser. B, 1(25): 281—330, 26 text figs. pls. 17—18.
- [3] Sakai, T., 1976. Crabs of Japan and the adjacent seas. Tokyo, Kodansha Co., pp. xxix+773+461+16, pls. 251.
- [4] Shen, C. J., 1932. Brachyuran Crustacea of North China. *Zool. Sinica*, ser. A, 9: 1—300, pls. 1—10, 1 map.
- [5] Shen, C. J., 1935. On some new and rare crabs of the Families Pinnotheridae, Grapsidae and Oeypodidae. *Chinese J. Zool.* 1: 19—40, text figs. 1—15.

A NEW SPECIES OF *TRITODYNAMIA* (CRUSTACEA: BRACHYURA) FROM FUJIAN PROVINCE, CHINA*

Chen Huilian

(Institute of Oceanology, Academia Sinica)

So far as known, four species of the Genus *Tritodynamia* Ortmann have been described. The present species which differs from all the known species in major aspects is considered as new.

Tritodynamia fujianensis sp. nov. (Plate I)

Carapace transversely ovoid, twice as broad as long. Surface polished, finely pitted. Regions ill-defined. Gastric region with a transverse groove. Front broad, about as wide as the orbit, frontal border truncate, surface with a longitudinal groove. Lateral borders each with a finely granulated raised ridge. Anterolateral border longer than posterolateral border, at the point where the anterolateral and po-

* Contribution No. 505 from the Institute of Oceanology, Academia Sinica.

sterolateral borders meet, there is an inwardly directed, oblique, slightly raised ridge, which together with the posterolateral border delineates a small, elongate triangular, slightly sloping area of the carapace.

Merus of third maxilliped longer than ischium. Palm and dactylus of equal length, with long plumose hairs.

Cheliped stout. Merus with a cluster of long hairs at inner and outer borders. Palm short and stout, its outer border much elevated; near the outer border of the outer lateral face is a hairy, longitudinal groove, near its inner border there is a smoothly elevated ridge; middle of inner lateral face also has a hairy, longitudinal groove. Inner borders of its two fingers with some small teeth. The basal half of the inner border of movable finger with two blunt teeth. The basal portion of the inner border of immovable finger with two relatively big teeth.

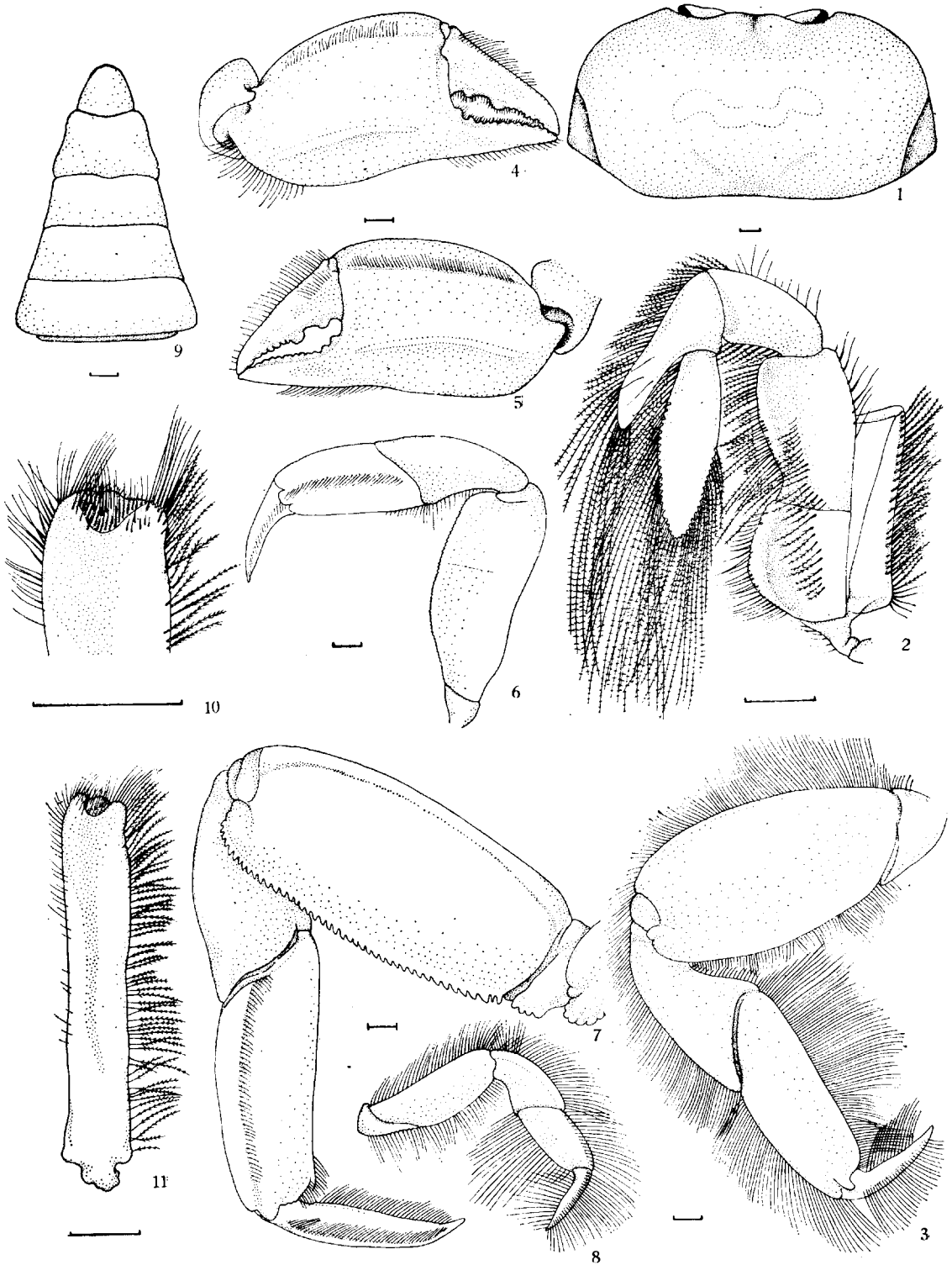
Second pair of ambulatory legs longest, fourth shortest and smallest. Posterior border of merus of the second pair serrated, with about 43 teeth. Merus of third pair two times as broad as long.

Telson of male abdomen bluntly triangular. First abdominal appendage of the male stout, its distal portion bluntly rounded, with plumose hairs.

This new species closely resembles *T. rathbunae* Shen, 1932 but differs from it in the following aspects:

<i>T. rathbunae</i> Shen, 1932	<i>T. fujianensis</i> sp. nov.
1. Carapace is 1.8 times as broad as long	carapace is twice as broad as long
2. Fingers of the male broadly gapped when closed; inner border of movable finger bears a tooth	fingers of the male narrowly gapped when closed; inner border of movable finger bears two teeth
3. Palm of third maxilliped is relatively short, shorter than dactylus	palm of third maxilliped is relatively slender, nearly as long as dactylus
4. Telson of male abdomen is semicircular	telson of male abdomen is bluntly triangular
5. Extremity of first abdominal appendage of male convex, with a distinct central depression	extremity of first abdominal appendage of male bluntly rounded, with a slightly distinct central depression

Holotype ♂ (IOAS-C00811) Pingtan, Fujian Province. 16 March, 1957.



福建三强蟹(新种) *Tritodynamia fujianensis* sp. nov.

1. 头胸甲 (carapace); 2. 第3颚足 (third maxilliped); 3. 第3步足 (third ambulatory leg); 4-5. 螯足 (chela); 6. 第1步足 (first ambulatory leg); 7. 第2步足 (second ambulatory leg); 8. 第4步足 (fourth ambulatory leg); 9. 雄性腹部 (abdomen of ♂); 10-11. 雄性第1腹肢 (first ♂ abdominal appendage)

注: 比例尺均为1毫米

