

中国扇贝科的研究*

III. 栉孔扇贝亚科(薄齿扇贝属)

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薄齿扇贝属 (*Bractechlamys*) 是栉孔扇贝亚科 (*Chlamydiae*) 中的一个暖水性属。其主要特征是贝壳较小、近圆形,壳两侧不等,左壳平,右壳凸。两耳不等,前耳大,后耳小。贝壳表面宽放射肋上具有数条圆形细肋,肋上有各种生长小鳞片。放射肋及生长鳞片细致、规则。壳色鲜艳美丽。以足丝营附着生活,栖息在潮间带和潮下带浅海底的岩石或珊瑚礁上。

这一属在我国的种类不多, Kuroda (1941) 和波部忠重 (1977) 曾报道台湾省有两种,其中方薄齿扇贝 (*Bractechlamys quadrilirata* Lischke) 我们在广东省的海南岛也有发现。此外,作者又发现1个新种(秀丽薄齿扇贝 *B. elegans* sp. nov.) 和1个新记录(彩薄齿扇贝 *B. schmeltzii* Habe), 现报道如下。新种的模式标本保存在中国科学院海洋研究所。

1. 方薄齿扇贝 *Bractechlamys quadrilirata* (Lischke, 1870) (pl. I, figs. 8—10)

Pecten quadriliratus Lischke, 1870:29; Lischke, 1871:158, pl. IX, figs. 5—6.

Chlamys quadrilirata: 吉良哲明, 1971:121, pl. 48, fig. 6.

Bractechlamys quadrilirata: 波部忠重, 1977:83; Kuroda & Habe, 1981: 66.

标本采集地 海南岛西南外海,水深 45—90.8m,泥沙底。壳长 15.0mm,高 17.5mm,宽 5.2mm。

贝壳较小、略呈长椭圆形,壳两侧略等。两壳耳不等,前耳大,后耳小。左右两壳相等,放射肋数略等。壳表具有 10—11 条等粗的宽放射肋,每条宽肋上又有 3—4 条细肋。宽放射肋间距离较大,具有两条细肋。放射肋上的生长小鳞片排列规则,呈圆形或小结栉状。两壳颜色不等,左壳呈肉红色,有的具有浅褐色环带。右壳色较浅,略呈灰白色。足丝孔较明显,呈三角形,具有 4—5 个细栉齿。

贝壳内面呈浅灰白色,略显淡红色,具光泽、肌痕不明显。内韧带略呈小三角形、红褐色。闭壳肌大,呈圆形。外套缘具褐色素,触手较粗大。眼位于触手的基部,较小,但数量较多。

地理分布 为少见种,仅见于潮下带,日本的伊豆至冲绳及我国台湾和海南岛附近水域。

2. 彩薄齿扇贝 *Bractechlamys schmeltzii* (Kobelt, 1860) (pl. I, figs. 5—7)

Pecten schmeltzii Kobelt, Cat. Mus. Godeffroy 1860: 116; Kobelt, 1888: 272, pl. 71, figs. 5—6.

Chlamys schmeltzii: 吉良哲明, 1971:122, pl. 48, fig. 10; 黑田, 1932:92.

* 中国科学院海洋研究所调查研究报告第 927 号。

本工作由齐钟彦教授热情指导,马绣同、徐凤山同志采集标本,王公海同志绘图,特此一并致谢。

收稿日期: 1982年6月8日。

Bractechlamys schmeltzii: 波部忠重, 1977:83; Kuroda & Habe, 1981:66.

标本采集地 广东省海南岛崖县, 西沙群岛的永兴岛、琛航岛、金银岛、珊瑚岛、晋卿岛、羚羊礁、树岛、北岛、觅出礁。一般壳长 16.3mm, 高 16.6mm, 宽 5.2mm。

贝壳小、斜、略近椭圆形。壳两耳不等, 前耳大, 后耳小。左壳皆呈三角形。右壳前耳呈长方形, 后耳呈三角形。两壳不等, 右壳略较左壳凸。壳表具有 12—14 条由 2—4 条细肋组成的宽放射肋。一般肋间距离较小, 但亦有例外者。有的个体在宽肋中部的细肋上, 具有规则的圆形鳞片。细放射肋间距离较小, 多呈细小的网目状。壳色鲜艳美丽, 有变化。具红、紫、橙、黄、白等色, 有的还具有云彩状花纹。足丝孔明显, 略呈三角形, 具有细栉齿。

贝壳内面颜色较淡, 背缘具有细刻纹。内韧带呈三角形、褐色。闭壳肌大, 略近长椭圆形。外套薄、外套缘厚, 具褐色斑。触手粗短, 排列紧密。眼较大。

栖息于潮间带至潮线下 20m 以内的浅海海底, 以足丝附着在岩石、珊瑚或其他物体上生活。贝壳表面常被苔藓虫、多毛类等动物所附着。为我国西沙群岛的习见种。肉质部小, 多不食用。

地理分布 热带种, 日本奄美大岛以南有分布, 我国仅见于海南岛南端及西沙群岛。

3. 秀丽薄齿扇贝(新种) *Bractechlamys elegans* sp. nov. (pl. I, figs. 1—4)

贝壳小、薄、极精致, 略近圆形。壳高略大于壳长。两壳不等, 左壳较平, 壳表具有 5—7 条略高而较宽的放射肋, 此宽肋由 3—4 条白色细肋组成。两高肋之间又有 1—2 条较低的宽肋, 此宽肋亦由 3—4 条细肋组成, 但肋上有排列整齐的褐色或黑褐色花斑。肋上生长鳞片稀少、略高起, 呈圆柱状。正模标本生长鳞片较副模标本明显, 壳色白而具褐色斑。右壳凸, 壳表约有 15 条由 3—4 条细肋组成的宽肋, 肋上生有略呈圆形的少数鳞片。壳表呈乳白色, 具白色花纹。两耳不等, 前耳大呈等边三角形, 具有 5—7 条细肋; 后耳小, 略呈等腰三角形。足丝孔较深, 略呈方形, 其下缘具有 3—4 个细栉齿。

内韧带位于壳顶下方的一个三角形的窝中。外套薄, 外套缘较厚, 呈浅褐色, 具有很多长短不等、紧密排列的触手。眼位于触手的基部, 较发达。

本新种与彩薄齿扇贝 *B. schmeltzii* (Kobelt) 较相似, 但其放射肋和鳞片的形状、花斑以及较凸的右壳和较平的左壳等特征, 可较明显的同后者区别。

正模式标本 标本号: M11585, 壳长 11.5mm, 高 12.4mm, 宽 3.6mm。1975 年 4 月 14 日, 马绣同采自广东省海南岛榆林。

副模式标本 标本号: M11586, 分别为壳长 11.2mm, 高 12.2mm, 宽 4.0mm; 壳长 10.6mm, 高 11.0mm, 宽 2.9mm; 壳长 8.6mm, 高 9.2mm, 宽 2.5mm。1957 年 4 月 28 日, 徐凤山采自我国西沙群岛。

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STUDIES ON CHINESE SPECIES OF THE FAMILY PECTINIDAE

III. CHLAMYDINAE (GENUS *BRACTECHLAMYS*)*

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ABSTRACT

Bractechlamys is a tropical genus in the subfamily Chlamydinæ found only in Taiwan, Hainan and Xisha Islands along the Chinese coasts. The Japanese authors, Kuroda (1941) and Habe (1977) had reported two species of the genus from Taiwan, i.e. *B. quadrilirata* Lischke and *B. teramachii* Wabb. The former species was also collected by us from Hainan Island recently. Besides these, the author found 2 additional species of the genus from the collections made by the Institute of Oceanology, Academia Sinica. One of these, *B. schmeltzii* (Kobelt), is recorded for the first time from China, and the other, *B. elegans* is a new species. The description of the new species is given below.

Bractechlamys elegans sp. nov.

Shell small, thin, extremely delicate, subcircular and slightly oblique, slightly higher than long, inequivalve, left valve is rather flat than the right. Left valve provided with 5 or 7 elevated and broad radial ribs consisting of 3 or 4 finer white riblets. Between these

* Contribution No. 927 from the Institute of Oceanology, Academia Sinica.

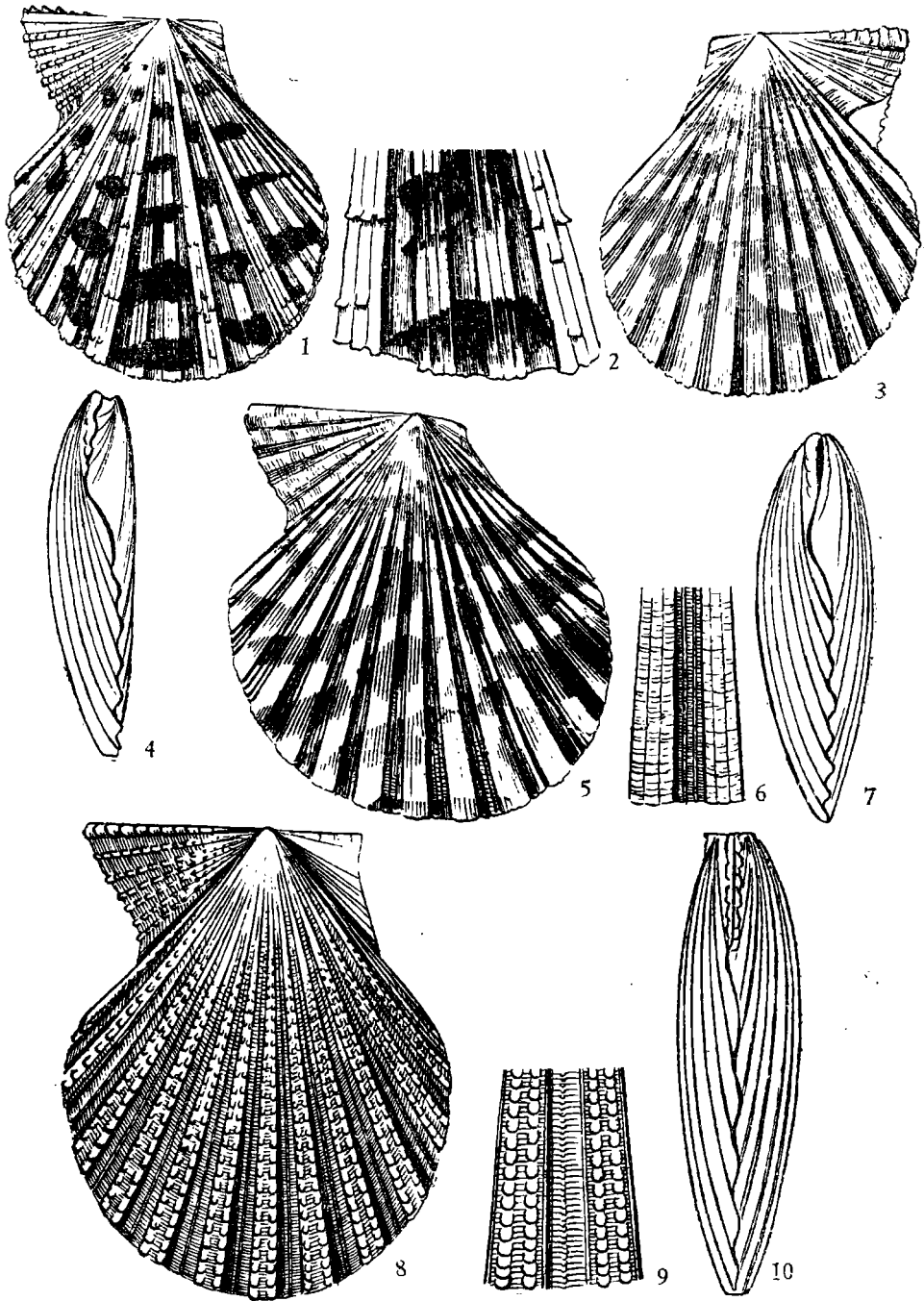
ribs there are also one or two rather lower ribs consisting of 3 or 4 finner riblets. On these lower ribs many regular brown or darkish brown patches are spread. The scales on the ribs are slightly raised, and very few in number. The scales are more obvious in the holotype than in the paratypes. The shell colour is white, with brown spots. The right valve is rather convex, with 15 rather broad radial ribs consisting of 3 or 4 finner riblets on its surface. The scales on the ribs are rounded, few in number. The shell colour is creamy white, with white spots on the surface. Auricles unequal, anterior one large, equilateral triangular, with 5 to 7 small riblets; the posterior one small, triangular. The byssel notch is rather deep, sub-rectangular, with about four denticles on the lower margin.

The resilium internal is situated in a small triangular pit below the umbones. Mantle thin, with a rather thick browish edge provided with numerous close set tentacles of varying size. Eyes rather developed and situated at the base of tentacles.

This new species is similar to *B. schmeltzii* (Kobelt), but can be distinguished by the shape of radiate ribs and scales, the color patches, as well as the rather convex right valve and flat left valve.

Holotype M11585: Length 11.5 mm, Height 12.4 mm, Breadth 3.6 mm, collected by Ma Xiutong from the inter-tidal zone, Yülin, Hainan Island, on April 14, 1975.

Paratypes M11586: Length 11.2 mm, Height 12.2 mm, Breadth 4.0 mm; Length 10.6 mm, Height 11.0 mm, Breadth 2.9 mm; Length 8.6 mm, Height 9.2 mm, Breadth 2.5 mm, collected by Xu Fengshan from the inter-tidal zone, Xisha Islands, on April 28, 1957.



秀丽薄齿扇贝(新种) *Bractechlamys elegans* sp. nov.

1. 左壳; 2. 放射肋(左壳); 3. 右壳; 4. 侧面。

彩薄齿扇贝 *B. schmeltzii*

5. 左壳; 6. 左壳放射肋; 7. 侧面。

方薄齿扇贝 *B. quadrilirata*

8. 左壳; 9. 左壳放射肋; 10. 侧面。