

# 广西荔浦早泥盆世腹足类

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## 内 容 提 要

腹足类化石采自广西荔浦栗木早泥盆世四排组, 共3属4种: *Oriostoma? lipuense* sp. nov., *Naticopsis* sp., *Murchisonia angulata* Philips, *Murchisonia bachelieri* Rouault 其中 *Murchisonia* 属的两种是西欧早泥盆世常见的分子。 *Oriostoma? lipuense* 是1个归属有疑问的新种。与腹足类共生的有早泥盆世的腕足类、轮藻和介形类等化石。

**关键词** 早泥盆世 四排组 腹足类

1980年, 王振、王克良等对广西荔浦等地泥盆纪生物地层开展工作时, 在栗木剖面四排组厚层泥质灰岩中采到一批保存较好的腹足类化石, 经整理研究, 共有3属4种, 名称如下: *Oriostoma? lipuense* sp. nov., *Naticopsis* sp., *Murchisonia angulata* Philips, *Murchisonia bachelieri* Rouault。其中 *Murchisonia angulata*, *Murchisonia bachelieri* 两种是西欧下泥盆统较常见的腹足类化石, 前者在我国广西等地也有广泛的分布。 *Oriostoma? lipuense* sp. nov. 虽然是一个新种, 但它发育裂片状的旋脊, 与 *Oriostoma* 属的常见种不相同, 因此, 此种的确切鉴定, 还有待于今后发现更多更好的标本。与这批化石共生的有下泥盆统腕足动物化石 *Euryspirifer qijiangensis*-*Kwangsia xianghouensis* 组合和轮藻化石 *Sycidium miniglobosum* Z. Wang et al. 等。故其时代应属早泥盆世。

**莺口螺科 Family Oriostomatidae Wenz, 1938**

**莺口螺属 Genus Oriostoma Munier-Chalmas, 1876**

**荔浦莺口螺? (新种) *Oriostoma? lipuense* sp. nov.**

(图版I, 图1—9)

壳体中等大小, 陀螺形, 约有螺环4—5个。上部螺环增长均匀。螺塔低, 末螺环高, 约占壳高的一半。螺环面饰有粗壮的旋脊, 末螺环上具旋脊4条, 周缘旋脊最为尖锐。近上缝合线的旋脊其边缘呈锯齿状, 且略向上翘起(图版I, 图1, 2, 8)。有的个体上部第1、第2两条旋脊都呈锯齿状裂开, 也有的个体上部第1、第2旋脊分开成长粒状突起(图版I, 图6—8)。下部旋脊比较细弱, 其边缘略呈波状起伏。壳口圆形, 外唇粗厚, 内唇薄。脐孔小, 近半圆形, 脐脊尖锐, 呈角状。壳面饰有生长线, 生长线略弯曲。

**标本度量 (mm)**

登 记 号	壳 高	壳 宽	顶 角
NIGP 115268	13	13	70°
NIGP 115269	18.65	13	65°
SMNH 3903		17	80°

**比较** 此种与模式种 *Oriostoma barrandei* [Munier-Chalmas, 1876 不同在于前者具陀螺形的壳体,较小的脐孔和较粗大的锯齿状旋脊。

**似玉螺(未定种) *Naticopsis* sp.**

(图版 I, 图 14,15)

壳体中等大小,玉螺形,由 2—3 个迅速增长的螺环组成。螺塔低,末螺环胀大。螺环圆凸,缝合线浅,略斜。壳口大,椭圆形。壳面饰纹脱落,仅能隐约见到局部生长线痕。无脐孔。

**莫氏螺科 Family Murchisoniidae Koken, 1896**  
**莫氏螺属 Genus *Murchisonia* D'Archiac et De Veneuil, 1841**  
**角状莫氏螺 *Murchisonia angulata* Phillips**

(图版 I, 图 10—12)

1963 *Murchisonia angulata* Phillips, 余汶、王惠基、李子舜,123 页,图版 32, 图 18—19。

壳体小至中等大小,塔锥形,壳顶尖,由 8—9 个角状螺环组成。螺环增长规则,缝合线深,略斜。周缘尖锐。裂带宽且下凹,位于周缘之上,裂带的上限为一条旋脊所限。裂带的下侧面亦凹下。底部有一条粗壮的旋脊。壳口保存较差,但椭圆形的轮廓可以见到。壳面饰纹保存较差,但可见到弯曲的生长线。

**比较** 这些标本的一般形态特征与 *Murchisonia angulata* Phillips (Whidborne, 1892, pl. XXX, figs. 5,9) 极相似,仅有的差异在于中国标本的壳口呈椭圆形。

**巴彻尔莫氏螺(比较种) *Murchisonia* cf. *bachelieri* Rouault**

(图版 I, 图 13)

Cf. 1851 *Murchisonia bachelieri* Rouault. p. 384.  
Cf. 1941 *Goniostropha bachelieri* (Rouault), Knight, p. 137, pl. 42, figs. 5a—d.

壳体中等大小,锥形,壳顶断损,仅保存下部 6 个螺环,螺环角状,增长规则,缝合线深,略斜。螺环下部具一条裂带,裂带略宽,微凹,位于周缘之上,并界以两条旋脊,上旋脊与上缝合线之间略宽平。末螺环底部圆角状。壳口保存不完整。壳面饰纹大部分脱落,仅在末螺环上能见到向后斜的生长线。壳高 20 mm; 壳宽 10.65 mm; 顶角 35°。

**比较** 此标本与模式标本相类似,但中国标本的壳饰脱落,缝合线较深。

**参 考 文 献**

王钰、戎嘉余, 1986: 广西南宁一六景间泥盆纪郁江期腕足动物。中国古生物志, 总号第 172 册, 新乙种第 22 号。科学出版社。  
王钰、俞昌民、廖卫华、施从广、胡兆珣、邓占球、戎嘉余、倪富南、王成源、阮亦萍、蔡重阳、王尚启、穆道成、夏凤生、王志浩, 1983: 中国泥盆纪地层对比表及说明书。中国科学院南京地质古生物研究所编著“中国各纪地层对比表及说明

书”。90—108 页。科学出版社。

韦仁彦, 潘云唐, 1988: 广西泥盆纪的一些腹足类化石。古生物学报, 27(5): 643—649。

余汶, 王惠基, 李子舜, 1963: 中国的腹足类化石。科学出版社。

余汶, 潘华璋, 王惠基, 1985: 藏川滇边界腹足类化石。川西藏东地层与古生物 (3), 151—181。四川科学技术出版社。

梁仲发, 1987: 西秦岭碌曲-迭部地区泥盆纪腹足类。西秦岭碌曲、迭部地区晚志留世与泥盆纪地层古生物, 下册, 165—170。南京大学出版社。

Knight, J. B., 1941: Paleozoic gastropod genotype. Geol. Soc. Amer. Spec. Paper. 32, 510p.

Koninck, L. G. de, 1881: Faune du calcaire carbonifère de la Belgique. 3<sup>e</sup> partie, Gastropodes. Annales du Musée royal d'Histoire naturelle de Belgique. ser. paleont. t. 6.

Linsley, R. H., 1968: Gastropods of the Middle Devonian Anderdon Limestone. Bull. Tmer. Palaeont. 54(244).

Longstaff, J. D., 1933a: A revision of the British Carboniferous Loxonematidae, with descriptions of new forms. Quart. J. Geol. Soc. London. 89, 87—124.

Meek, F. B., 1872c: Report on the paleontology of eastern Nebraska, with some remarks on the Carboniferous rocks of that district, in Hayden, F. V.: Final report of the United States Geological Survey of Nebraska and portions of the adjacent territories, pp. 83—261. Washington.

Perner, J., 1903: In Barrande, Joachim: Systeme silurien du centre de la Bohème, 4. Gastropodes. Tome 1<sup>er</sup>, Texte (Patellidae et Bellerophonitidae), Prague.

Rouault, M., 1851: Sur le terrain paleozoique des environs de Rennes. Bulletin de la Société Géologique de France, 2<sup>e</sup>. Sér. 8.

Tassell, C. B., 1976: A revision of the gastropod fauna of the lilydale limestone (Early Devonian) of Victoria. Memoirs of Victoria, 37, 21p.

Wang Zhen et al., 1980: Early and middle Devonian Charophytes of eastern Guangxi, China. University of Louisville studies in paleontology and stratigraphy, No. 13, p. 1—16.

Whidborne, G. F., 1891: A monograph of the Devonian fauna of the south of England. The fauna of the limestones of Lummton, Wolborough, Chircombe Bridge, and Chudleigh. Gastropoda: Palaeont. Soc. Mon. pp. 156—250. London.

———, 1892: A monograph of the Devonian fauna of the south of England. The fauna of the limestones of Lummton, Wolborough, Chircombe Bridge, and Chudleigh, Gastropoda: Palaeont. Soc. Mon., pp. 251—344. London.

[1991年11月10日收到]

## LOWER DEVONIAN GASTROPODS OF LIPU DISTRICT, GUANGXI

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**Key words:** Lower Devonian, Sipai Formation, Gastropoda

### Summary

In 1980, while carrying out their geological investigations into the Devonian of Lipu County, Guangxi Region, Wang Zhen and Wang Ke-liang collected some relatively well-preserved gastropod fossils from the argillaceous limestone of the Limu section, which have been studied and identified by the writers as Devonian gastropods including 3 genera and 4 species, namely, *Oriostoma? lipuense* sp. nov., *Naticopsis* sp., *Murchisonia bachelieri* Linsley and *M. angulata* Philips. Among them, *Murchisonia angulata* is a gastropod fossil frequently seen in the Lower Devonian of Europe, while *M. bachelieri* is extremely similar to the holotype yielded from the Lower Devonian of

France. Although *Oriostoma? lipuense* is a new species, it is rich in individuals, and its shell ornaments are preserved intact; especially in the serrate spiral ridge it is extremely close to *Oriostoma* which is frequently found from the Devonian. In association with these fossils are the branchiopod *Euryspirifer qijiangensis-Kwangsia xianghouensis* assemblage and the charophytes *Sycidium miniglogosum* Z. Wang, Conkin and Lu, *Trochiliscus lipuensis* Z. Wang, Conkin and Lu, etc., which represent the important fossils from the Lower Devonian of Guangxi, together with ostracodes. All these indicate the Early Devonian age of these fossils.

**Description of new species**  
**Genus *Oriostoma* Munier-Chalmas, 1876**  
***Oriostoma? lipuense* sp. nov.**

(Pl. I, figs. 1—9)

**Description** Shell moderately large in size, turbiniform, with 4—5 whorls. Whorl regularly increasing in upper part of the shell, low-spired, occupying about half the height of the shell. Whorl surface ornamented with relatively strong costae; last whorl with four costae. Costae much sharper at periphery; those near adapical sutures crenate and slightly raised upward at edge (pl. I, figs. 1, 2, 8). In some individuals, first and second costae all rent on upper whorls, or largely granular (pl. I, figs. 6—8). In lower part of the whorl, costae appearing finer with slightly frilled edge. Aperture rounded, with lip thickened and inner lip becoming thinner. Umbilicus small, semicircular; umbilical costa rather sharp, angulate in shape. Surface ornamented with slightly curved growth lines.

Measurements of *Oriostoma? lipuense* sp. nov.

Cat. no.	Height	Width	Apical angle
NIGP 115268	13	13	70°
NIGP 115269	18.65	13	65°
SMNH 3903	/	17	80°

**Comparison** This species is similar to *Oriostoma barrandei* Munier-Chalmas, 1876, but differs from the latter in the small umbilicus and the crenate costae.

**Occurrence** Sipai Formation of Lower Devonian, Lipu, Guangxi.

**图 版 说 明**

NIGP 115268—115270 号标本均保存于中国科学院南京地质古生物研究所; SMNH 3903—3908 号标本均保存于上海自然博物馆。化石产自广西荔浦栗木四排组。

**图 版 I**

- 1—9. *Oriostoma? lipuense* sp. nov.  
1—3. 口视、侧视、顶视 (Holotype), ×2; 4. 侧视, ×2; 5. 近口视, ×2; 6—8. 侧视, ×2, 侧视, ×3, 顶视 ×3; 9. 群体形态, ×1。登记号: 1—3. NIGP 115268; 4. SMNH 3903; 5. NIGP 115269; 6—8. SMNH 3905; 9. SMNH 3904.
- 10—12. *Murchisonia angulata* Phillips.  
10—11. 口视、背视, ×5; 12. 背视, ×1.5。登记号: 10, 11. NIGP 115270. 12. SMNH 3908.
13. *Murchisonia* cf. *bachelieri* Rouault  
口视, ×1。登记号: SMNH 3907.
- 14, 15. *Naticopsis* sp.  
口视、背视, ×3。登记号: SMNH 3906

