

湖南零陵晚泥盆世准云南贝 (*Yunnanellina*) 一新种

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本文所研究的标本共10件,保存完美,采自湖南零陵普利桥北部的上泥盆统锡矿山组上部泥灰岩,系一新种 (*Yunnanellina undatussulcus* sp. nov.)。与之共生的有 *Yunnanellina hanburyi*, *Y. uniplicata*, *Y. triplicata*, *Tenticospirifer vilis* var. *kwangsiensis*, *Camarotoechia hunanensis*, *Productellana linglingensis*, *Athyris gurdoni*, *A. gurdoni* var. *transversalis* 等,新种的时代为晚泥盆世锡矿山期晚期。

化石描述

云南贝科 *Yunnanellidae* Rzhovnsnitskaya, 1959

准云南贝属 Genus *Yunnanellina* Grabau, 1931

波状槽准云南贝(新种) *Yunnanellina undatussulcus* sp. nov.

(图版 I, 图 1, 2)

材料 完整贝体 10 个。

描述 贝体较小,轮廓近五边形。壳宽与壳长大致相等,最大壳宽位于中部。壳面覆有大量细微的放射状壳纹,纹顶坦平,间隙狭窄,

度量 (mm)

标本号	壳长	壳宽	壳厚	中槽内壳褶数	各侧区壳褶数
8301	17.0	18.5	12.0	2	2
8302	19.5	20.0	13.0	2	2
8303	18.0	16.0	13.5	2	2
8304	19.5	20.0	14.5	3	2
8305	23.0	21.5	15.0	2	4
(Holotype)					
8306	21.5	21.5	17.0	2	4
8307	20.0	19.5	13.0	3	3
(Paratype)					
8308	18.0	19.0	11.5	3	2
8309	18.0	18.0	10.5	2	3
8310	18.5	17.5	14.5	3	4

作分枝式增加,壳面中部 1mm 内有壳纹 5 条,

腹壳之后部与两侧呈马蹄形凸隆。喙部尖小,微弯曲,超悬于铰合线之上;中槽发育于腹壳之四分之三长度,槽宽阔,至中部呈一明显的波状凹陷,而前部又转为向背方急剧弯曲呈舌状延伸。槽内具 2 至 3 个壳褶,褶脊棱角状。

背壳曲度较大,中隆始于壳面中部,具 3 至 4 个壳褶,前缘高耸。侧区各具 2 至 4 个壳褶。

腹壳齿板异向生长,齿板长约为壳长的三



插图 1 *Yunnanellina undatussulcus* sp. nov. 连续横切面 (transverse serial section), $\times 2$.

分之一。背壳中隔板明显,其长度约为壳长的四分之一(插图 1)。

讨论 新种与 *Yunnanellina triplicata*, *Y. hunanensis*, *Y. postmodicaformis* 均有些相似。但是 *Yunnanellina triplicata* 轮廓作显著的三角形, *Y. postmodicaformis* 的轮廓呈横椭圆形。特别是新种所独有的宽阔中槽在壳面中部呈波状凹陷,而至前部又转为向背方急剧弯曲呈舌状延伸。这一特征与本属中所有已知种都很容易区别。

产地层位 湖南零陵;上泥盆统锡矿山组上部。

主要参考文献

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 Moore, R. C. (ed.), 1965: Treatise on Invertebrate Paleontology, part H (Brachiopoda), Geological Society of America & University of Kansas Press.

A NEW SPECIES OF GENUS *YUNNANELLINA* FROM UPPER DEVONIAN OF LINGLING, HUNAN

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Summary

The brachiopods described in this paper were collected from the marl of the Upper Devonian Hsiukuangshan Formation which is corresponding to the Upper-middle Famennian Formation, at Puliqiao of Lingling in Hunan. The species has been named *Yunnanellina undatussulcus* sp. nov. by the author, usually in association with *Yunnanellina hanburyi*, *Y. uniplicata*, *Y. triplicata*, *Tenticospirifer villis* var. *kwangsiensis*, *Camarotoechia hunanensis*, *Productellana linglingensis*, *Athyris gurdoni* and *A. gurdoni* var. *transversalis*, belonging to the Upper Hsiukuangshan Formation of the Upper Devonian age.

Description of new species

Yunnanellina undatussulcus sp. nov.

(Pl. I, figs. 1, 2)

Material: Ten complete specimens

Diagnosis: Shell slightly small-sized and pentagonal in outline, nearly as wide as long, with

the greatest width at the middle part, covered with many costellae.

Posterior and lateral areas of pedicle valve convex, in the shape of a horseshoe. Beak appearing sharp and small, slightly bent. Sulcus broad, well-developed, obviously concave at the middle part of the shell and strongly bent forward to the dorsal valve at the anterior part, with two or three plications.

Dorsal valve strongly convex. Fold appearing at the middle part of the shell with three or four plications; while lateral area with two to four plications.

Dental plates about one-third as long as the shell. Median septum nearly one-fourth as long as the shell.

Remarks: The new species differs from all other species of the genus *Yunnanellina* in the most important character of the obviously concave sulcus at the middle part of the shell.

图 版 说 明

所有标本均采自湖南零陵普利桥上泥盆统锡矿山组上部的泥灰岩,标本都保存在桂林冶金地质学院地史古生物教研室。

图 版 I

1, 2. *Yunnanellina undatussulcus*. sp. nov.

1a—1c. 实体化石, Holotype; 其中 1a—1d. 腹视、背视、侧视、前视, $\times 1.6$; 1e 背壳局部微壳饰, $\times 5$ 。标本号: 8305。

2. 实体化石的腹视, Paratype; $\times 1.6$, 示中槽凹陷部分

及壳皱现象, 标本号: 8307。

3. *Yunnanellina hanburyi* (Davidson)

3a, 3b. 实体化石的腹视, 前视, $\times 2$ 。标本号: 83101。

4. *Yunnanellina uniplicata* Grabau

实体化石, 前视, $\times 2$ 。标本号: 83201。

5. *Yunnanellina triplicata* Grabau

5a—5c. 实体化石的背视、侧视、前视, 5a, 5b. $\times 1.5$ —5c. $\times 2$ 。标本号: 83301。

