

## 南京龙潭煤系中的一个海羊齿化石

1959年夏,笔者在南京北郊迈皋桥西北石炭山,采到一种形态罕见的化石。它产于上二迭统龙潭组炭质泥岩中,共生的化石有腕足类、头足类、瓣鳃类和少量植物碎片。标本以黄铁矿浸染方式保存,与空气接触即氧化成为暗黑色。当时,笔者误认为是植物化石,后经显微镜下观察,确定为动物化石,但由于形态特别,长期无法确定其分类位置。经过长期反复详细观察,最后认为它属于棘皮动物门中的海羊齿科。

### 海羊齿科 *Antedoniidae*

#### 海羊齿属 *Antedon* Freminville, 1811

#### *Antedon* sp.

(图版 I, 图 1—4)

**描述:** 标本仅保存数个羽腕,一个正型(外模),二个副型(内模),前者中部略遭破损,但仍可清晰地看出其整个外貌。乳白色,羽状;腕一次分枝,羽肢呈管状,对生或近于对生,基部略收缩;腕的表面呈不明显凸起,有与羽肢相通的沟道,亦即食物沟遗迹。在一厘米长的腕上约有10对羽肢。

**讨论:** 本标本仅保存数个腕,萼部未经保存。同时,笔者尚未见到有关海羊齿化石的记载文献,暂不定种。从保存清晰的腕的特征来看,可能是一个新种,也可能是新属、新科。从标本保存的腕可以看出它与现代海羊齿的区别,在于前者羽肢是对生的,而后者则是互生的。

吕桂德、贺勃

(地质部地质科学研究所)

## ON THE OCCURRENCE OF ANTEDONIIDAE FROM LUNGTAN COAL SERIES, NANKING

LUE GUI-DE AND HY BO

(Academy of Geological Science, Ministry of Geology)

The specimen described here was collected by the writers in the summer of 1959. It was embedded in the calcareous mudstone of the Lungtan coal series of the Upper Permian, near Nanking.

### Family Antedoniidae

#### Genus *Antedon* Fremenville, 1811

#### *Antedon* sp.

(Pl. I, figs. 1—4)

**Description:** This specimen is represented by some arms, an external mould and two internal moulds. Arm bifurcated once; pinnulate plumes tubular, opposite or nearly opposite, constricted somewhat at its base. Surface of the arm indistinctly convex, and marked by common furrows (food grooves). In one centimeter there are about ten pairs of plumes, which are equally, or nearly equally spaced.

**Discussion:** Owing to the scarcity of material, it is out of place to identify our form specifically, even if a new generic name may be erected for it.

The present form can be easily distinguished from the modern *Antedon* by the characteristic arrangement of the plumes—being opposite in the former instead of being alternate in the latter. Therefore, the present form is now regarded as family Antedoniidae although it might be a new one (gen. et sp. nov.).

### 图 版 I 说 明

#### Explanation of Plate I

*Antedon* sp.

1. 原大。 a. 化石外模; b. 化石内模。
2. 同上,  $\times 4$ 。
3. 同上,  $\times 8$ 。
4. 同上,  $\times 57$ 。

*Antedon* sp.

- Fig. 1. a. external mould; b. internal mould,  $\times 1$ .  
Figs. 2—4. The same,  $\times 4$ ;  $\times 8$ ;  $\times 57$ .

