

## 四川宜宾揚子鱷脚印的皮痕

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在古脊椎动物学报第四卷第二期,“中国足印化石”一文中(53—67頁)所描述的四川宜宾揚子鱷脚印曾指出,在所有观察的标本中都有皮肤的印痕保存。在所有的标本,印痕都具有粗折曲状。以下再作一些补充说明。

因为所有三个标本,都是負型,所以本文图版上所表示的就是足部的皮肤面。因此表面的瘤状表皮就代表足的皮肤外形。

虽然大体上可以看出皮肤的外形,但由于砂岩较为粗糙,所以細微的构造,还不大清楚。如图版 I 所示,瘤状折曲是不十分規則的。有时清楚地隔开,有时彼此相連,呈一种虫状结构。

有兴趣的是这化石标本和相当部分的现代中国鱷的比較(图版 II)。总的說来,彼此十分相象。但是在现代标本,折曲排列的较为規則,也分布的較密。而在化石則較不規則,也排列得較稀。

以上观察,支持以前的意見,即四川足印属于一种鳥臀类恐龙,为半水生习性。在化石中皮痕能保存的标本,在中国还是第二次发見,所以值得一記。第一次发现是山东山旺的蛙化石皮痕。

### NOTE ON THE SKIN IMPRINT OF *YANGTZEPUS YIPINGENSIS* FROM SZECHUAN

(Summary)

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In the description of the footprints of *Yangtzeopus yipingensis* (V. 2473) of Szechuan, I have pointed out that in all the specimens the imprint of the skin is well preserved. The following note is the supplementary comment on the previous description<sup>1)</sup>.

Since the three footprints are all the negative ones, the actual surface showing in the figures represents the real appearance of the skin of the foot.

Owing to the nature of rather coarse sandstone the granulation is not so finely preserved. As shown in the given plate the arrangement of the granules is not quite regular. Sometimes

1) Young, C. C., 1950, Fossil footprints in China. *Vert. Palas.* 4, 53—67.

they are well separated and sometimes they are connected with each other, forming a sort of vermiculation.

It is interesting to compare the fossil imprint with the actual skin of *Alligator sinensis* (plate II). On the whole, they are very similar to each other, both are granulated. But in the recent form the granulation is more regularly arranged and also very densely distributed while in the fossil one they are distributed more at random and rather sparse.

The above observation may reinforce the previous suggestion that the footprints of Szechuan belong to ornithischian dinosaur and in semiaquatic life.



### 图版说明

#### 图版 I:

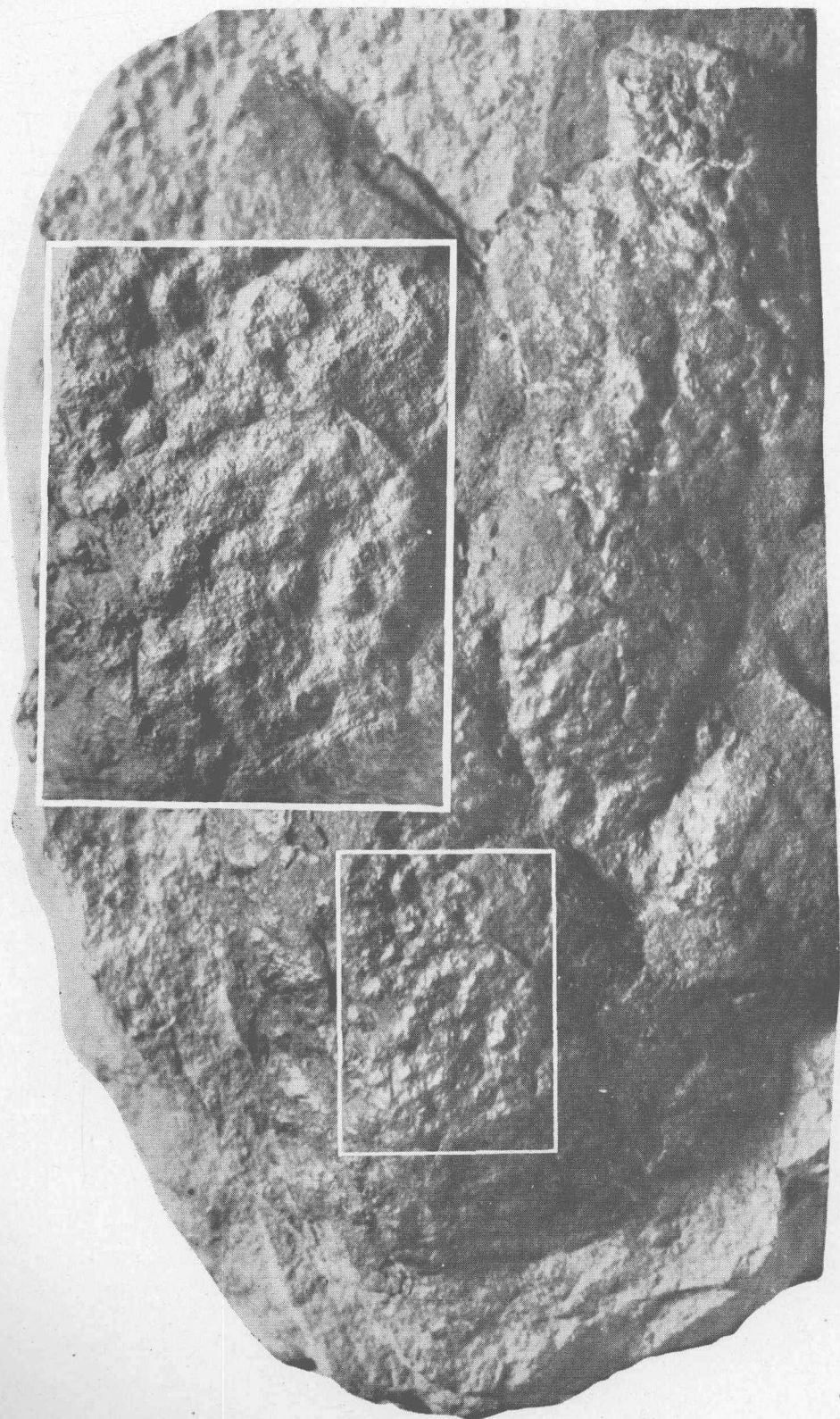
宜宾扬子鳄足印副型, 右足足印, 野外号: Ac 88. 本所编号: V. 2473, 全足印原大。大的长方型部代表小长方型部放大两倍。

*Yangtzepus yipingensis* Young. The paratype, a right footprint, field number Ac 88. cat. number of the Institute V. 2473, The entire print in natural size. The larger rectangular at the rightside represents a part in  $\times 2$  nat. size reproduced from the posterior part of the print in natural size.

#### 图版 II:

上: 中国鳄足印, 放大两倍, 下: 中国鳄脚部皮肤, 原大, 方型部即上图放大之部分。

Upper figure: Two times enlarged part indicated in the lower figure, the foot of *Alligator sinensis* shown the structure of the skin.



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图版 II

