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下一中泥盆统界线层二个牙形石种的演化及比较 [点此下载全文](#)

[白志强](#) [白顺良](#)

北京大学地质学系, 北京大学地质学系

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摘要:

Polygnathus costatus partitus(肋多颚牙形石分亚种)是国际地层委员会(ICS)确定的中泥盆统底部的标准化石。Polygnathus lingui formis bul tyncki 在形态上难以区分,造成地层划分的困难。经过认真研究, Polygnathus costatus partitus 幼年期和成年期两个发育阶段。Polygnathus lingui formis bul tyncki 依据表面形态可以划分为幼年期、青年期者不同发育阶段的比较研究,笔者提出了三点不同以在鉴定中将两者加以区别,从而提高化石鉴定的精度。

关键词: [牙形石](#) [演化](#) [川类](#) [下泥盆世](#) [界线层](#)

EVOLUTION AND COMPARATIVE ANALYSIS OF TWO CONODONT SUBSPECIES NEAR THE LOWER-MIDDLE DEVONIAN BOUNDARY [Download Fulltext](#)

Bai Zhiqiang, Bai Shunliang Dept. of Geology, Beijing University, Beijing

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Abstract:

Polygnathus costatus partitus is the standard fossil at the base of the Middle Devonian. But it is difficult to distinguish it in morphology from Polygnathus lingui formis bul tyncki occurring together with Polygnathus partitus, which makes it difficult to define the Lower-Middle Devonian boundary. Detailed study shows that the ontogenetic development of bul tyncki involves three stages (larval stage, young stage and adult stage) of partitus may be distinguished on the basis of the position of the carina. Comparison of the developmental stages of the two subspecies reveals three differences between bul tyncki and partitus. 1. Partitus's carina reaches the posterior end during its very early stage and retains there during the young stage and adult stage. 2. The inner and outer posterior margins of partitus are converging, to form a sagittate outline; whereas bul tyncki develops a tongue. 3. The cavity of partitus is located near the anterior end of the platform during its larval stage and at one third of the platform in the young stage and adult stage. These results supply the evidence for the fossil identification.

Keywords: [Lower-Middle Devonian](#) [conodont](#) [ontogenetic development](#)

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