

# Middle and Upper Carboniferous Gastropods from the Central part of the Russian Plate: part 1. Euomphalacea

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Systematic diversity and stratigraphic distribution of gastropod superfamily Euomphalacea from the Middle and Upper Carboniferous deposits of the Central part of the Russian Plate have been studied. The following taxa of Euomphalidae are redescribed: *Straparollus (Euomphalus) marginatus* (Eichwald, 1860), *S.(E.) marginatiformis* (Licharev, 1967) and *S.(E.) moniliferus* (Romanovsky, 1890). The latter species is reported in the Upper Carboniferous of the region for the first time. Two new species, *S.(E.) peskensis* sp. nov. and *S.(E.) pirochiensis* sp. nov., are recognized. The members of family Omphalotrochidae from the Central part of the Russian Plate have been revised; two species, *Omphalotrochus canaliculatus* (Trautschold, 1879) and *O. kalitvaensis* Licharev, 1940, are redescribed.

## Средне-верхнекаменноугольные гастроподы центральной части Русской плиты: часть 1. Euomphalacea

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Рассмотрен систематический состав и стратиграфическое положение представителей надсемейства Euomphalacea, встречающихся в отложениях среднего и верхнего карбона Центральной части Русской плиты. Уточнена диагностика и систематическое положение представителей рода *Straparollus* Montfort, 1810: *S.(E.) marginatus* (Eichwald, 1860), *S.(E.) marginatiformis* (Licharev, 1967) описано два новых вида: *S.(E.) peskensis* sp. nov. and *S.(E.) pirochiensis* sp. nov.; впервые для данного района отмечено присутствие *S.(E.) moniliferus* (Romanovsky, 1890). Пересмотрен систематический состав представителей рода *Omphalotrochus*, встречающихся в отложениях верхнего карбона Центральной части Русской плиты. Переописаны *Omphalotrochus canaliculatus* (Trautschold, 1879) и *O. kalitvaensis* Licharev, 1940.

## INTRODUCTION

Some Carboniferous limestone beds in the Central part of the Russian Plate contain considerable amount of gastropod remains. Their diversity is very great. The fauna includes representatives of at least the following fourteen superfamilies: Bellerophonacea, Euomphalacea, Pleurotomariacea, Trochonematacea, Patellacea, Platyceratacea, Microdomatacea, Anomphalacea, Neritacea, Murchisoniacea, Loxonematacea, Cerithiacea, Subulitacea, and Pyramidellacea. However, among them only two groups, superfamily Euomphalacea and family Platyceratidae, are found with their fossilized shells. Shells of the other groups have been dissolved and can be

reconstructed by imprints only. For this reason the study of this material entails great difficulties. Therefore, only few works have contributed to the knowledge of Carboniferous gastropods of the Russian Plate: Eichwald [1860, 1861], Trautschold [1874, 1879], Nikitin [1890], Yakowlew [1899], Shtukenberg [1905], Ivanov [1907, 1926], and Sinelnikova [1965, 1967, 1970].

More than 2000 gastropod specimens were obtained by the author from numerous quarries and outcrops in the Moscow Basin, Oksko-Tzninsky Swell during field works of 1982-1993. The collection was supplemented by the private collection of V.N. Sinelnikova, Geological Institute, Russian Academy of Sciences (including specimens collected by A.P. Ivanov and P.A. Ge-