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A DEVONIAN OSTRACODE FROM PONTA GROSSA FORMATION,
PARANÁ BASIN, BRASIL

Irajá Damiani Pinto* **
Ivone Purper**

SINOPSE

É descrita a nova espécie de ostracodes *Lapazites roesleri* da Superfamília Beyrichiacea Matthew, 1886, e registrada a distribuição estratigráfica dos ostracodes na Formação Ponta Grossa.

ABSTRACT

A new species of ostracodes is described, *Lapazites roesleri* of the Superfamily Beyrichiacea Matthew, 1886, and its stratigraphic distribution on the Ponta Grossa Formation, is pointed out.

INTRODUCTION

The occurrence of Devonian Ostracodes on Paraná Basin was mentioned by Lange (1943, 1954) and Lange et Petri (1967) but no study on them has been made till now.

The material under study is represented only by molds, a kind of preservation that renders difficult the recognition of all the specimens characteristics. Some sample were collected by the authors and part of them provided by courtesy of Prof. Dr. Oscar Rösler, and Prof.Dr. Marlene Popp. The ostracodes presented in this paper are registered under the numbers MP-0-1042 to 1044 from the collection of ostracodes of the Universidade Federal do Rio Grande do Sul.

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Many thanks to Dr. Alois Přibyl for sending us a reprint on his *Lapazites* genus and for some comments about the present paper.

GEOGRAPHICAL AND STRATIGRAPHICAL POSITION

The ostracodes are from Ponta Grossa Formation and were collected at the locality of Jaguariaíva (Fig.1).

Ponta Grossa Formation was proposed by Oliveira (1912) and represents a Devonian marine facies. Lange and Petri (1967) reached the conclusion that the marine fauna could be deposited in a neritic zone of a shallow sea. They divided the Ponta Grossa Formation into three members: Jaguariaíva, Tibagi and São Domingos and mentioned the presence of ostracodes in the last two members only.

The present authors have found ostracodes in Jaguariaíva and São Domingos Members but not in Tibagi, as it was mentioned by Lange and Petri (op.cit.)

SYSTEMATIC

Subclassis Ostracoda Latreille, 1806
Ordo Palaeocopida Henningsmoen, 1953
Subordo Beyrichiocopina Scott, 1961
Superfamilia Beyrichiacea Matthew, 1886
Familia? Kloedeniidae Ulrich and Bassler, 1923

Genus *Lapazites* Přibyl, 1984

Lapazites roesleri Pinto et Purper, sp.nov.

Pl. I-II

Designatio nominis: In honour of Prof. Dr. Oscar Rösler from Universidade de São Paulo
Holotypus: an internal mold of a right valve MP-0-1042
Paratypi: an internal mold of a left valve MP-0-1043; an internal mold of a carapace MP-0-1044
Locus typicus: cut in the railway Jaguariaíva/Arapoti, Paraná State, Brasil.
Stratum typicum: Jaguariaíva Member, Ponta Grossa Formation, Lower to middle Devonian

DIAGNOSIS Lateral outline subtriangular to subrectangular, prominent preadductorial lobe that does not surpass the dorsal margin. Large size:

4.92mm long and 2.62mm high.

DESCRIPTION Large size carapace, up to 4.92mm long and 2.40mm high; subtriangular form, almost equivalved. Anterior end widely rounded, posterior end acutely rounded forming with the straight dorsal margin almost right angles. Ventral margin convex, the transition to the anterior margin forms a close-arc and at the posterior margin an open arc. Convexity of valves equally developed at the anterior and posterior ends. In the latero-dorsal anterior third, of both valves a rounded relatively large preadductorial developed lobe which doesn't protude above hinge line. Connected to this lobe, there is the adductorial muscle scar pit which presents a series of small muscle impressions. Above it another rounded muscle scar and below it apparently two other rounded ones. Below and just anterior to the preadductorial lobe there is another small low lobe. Marginal structures lacking in lateral view.

DISCUSSION The holotype, a right valve, and the paratype, the left valve MP-O-1043 seem to belong to the same specimen. They have a subtriangular form in lateral view because the posterior end is accutely rounded. This characteristic is slightly different from that of the specimen MP-O-1044 which has the posterior end rounded, being sibrectangular in lateral view. This difference could represent a sexual dimorphism. The present species differs from *L. grandis* Přibyl, 1984, because praeadductorial node $/L^2/$ lies in a lower position.

DIMENSIONS MP-O-1042 Length 4.92mm, height 2.40mm; MP-O-1043 length 4.92mm, heigth 2.40mm; MP-O-1044 length 4.92mm, height 2.62mm.

OCCURRENCE AND ASSOCIATED FOSSILS

The ostracodes described proceeds from Jagrariaiva Member, Ponta Grossa Formation, Lower to Middle Devonian, Paraná Basin, at Jaguariaiva, Paraná State, Brasil. They are associated with a marine fauna of Brachiopods, Molluscs, Echinoderms, Trilobites, Scolecodonts, Tentaculites and Plants.

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PLATE 1

Fig.1-3 *Lapazites roesleri* Pinto et Purper, gen. et sp.nov.

Holotypus MP-0-1042

1a Right valve

1b Dorsal view

1c Ventral view

2 Left valve. Paratypus MP-0-1043

3 Carapace. Paratypus MP-0-1044

1b

1a

1c

2

3

1mm

1

2

3

1mm

Fig. 1 Map (After Lange and Petri, 1967)