Morska ježka iz oligocenskih plasti pri Češnjici blizu Poljšice

Sea-urchins from Oligocene beds at Češnjica near Poljšica, W-Slovenia

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Kratka vsebina


Abstract

In the paper irregular sea urchins from the Scutellidae family found in Oligocene beds of Češnjica near Poljšica are described. Owing to unfavorable position of both specimens that overlap in the rock the specific names could not be established. They indubitably belong to the same species. The find is important owing to relatively rare well preserved sea-urchins in Oligocene in Slovenia, and because they represent the first find of Oligocene Scutellid sea-urchins.

Uvod


Dosedanje raziskave

Med najstarejše raziskovalce makrofavnosti iz okolice Češnjice in Poljšice sodi L. p o l d (1857), ki je pisal takrat še o eocenskih skalih. V njih je našel devet različnih vrst polžev in dve školjčni vrsti, ostankov morskih ježkov ni omenjal. F u c h s (1874) je razdelil sklade pri Poljšici na štiri horizonte. Spodnjega s konglomerati, na sklede san-
Paleontološki del

(Sistematika po: Fell & Pawson, 1966 in Durham, 1966)

Superordo: Echinacea Claus, 1876
Ordo: Clypeasteroida A. Agassiz, 1872
Subordo: Scutellina Haeckel, 1896; emend. Durham & Melville, 1957
Familia: Scutellidae Gray, 1825; emend. Durham, 1955
Genus: Scutella Lamarck, 1816
Genus: Parmulechinus Lambert, 1910

Scutella seu Parmulechinus
Tab. 1, sl. 1a-1c


Značilnosti primerkov: Srednjeveška, dolžina hišice, kratki ambulakri z oznanim ambulakrom in bifurkacija radialnih zažetkov na oralni strani. Vsi našteti parametri hišic iredularnih morskih ježkov so značilni za družino Scutellidae.

Dimenzije (Dimensions):
manjši primerek (smaller specimen):
dolžina hišice (length of corona) = 33 mm (cca.50 mm)
širina hišice (width of corona) = 41 mm
višina hišice (height of corona) = 5 mm
dolžina ambulakra (length of ambulacra) = 10 mm
širina ambulakra (width of ambulacra) = 4 mm
širina ambitusa (width of ambitus) = 0,8 mm
večji primerek (larger specimen):
dolžina hišice (length of corona) = 45 mm (cca.55 mm)
širina hišice (width of corona) = 43 mm

Zaključki

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Conclusions

The specimen from Češnjica near Poljšica belong to irregular sea-urchins from the Scutellidae family. Since on the oral side the position of peristome and periproct are not visible, it is not clear whether the specimens belong to genus Scutella or Parmulechinus. It is more probable that the Poljšica individuals belong to the genus Parmulechinus that is frequent in Oligocene and Lower Miocene beds in Europe, whereas the genus Scutella is characteristic in Europe primarily for Miocene and partly for Upper Oligocene (Durham, 1966, U477). By all means are the Poljšica sea-urchins the first representatives of Oligocene Scutellids in Slovenia. The Scutellids belong to the order of Clypeasteroids that live according to Moore et al. (1952, 706) in large colonies, shallowly buried in sandy or muddy bottom very near the bottom surface on various depths, also down to 2000 m.

Zahvala

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Tabla 1 - Plate 1

1a Oligocensa skutelidna morska ježka iz Češnjice blizu Poljšice; zgoraj manjši z aboralne, spodaj večji z orale strani, naravna velikost
Oligocene Scutellid sea-urchins from Češnjica near Poljšica; above the smaller specimen by aboral, below the larger specimen by oral side, natural size

1b Drugi in tretji ambulaker manjšega primerka z ozkim ambitusoma, × 5
Ambulacra II and III with narrow ambitus of smaller specimen, × 5

1c Ista primerka s strani, naravna velikost
The same specimens by lateral side, natural size

Fotografije (Photos): Marijan Grm
Literatura


Rakovec, I. 1948: Naši kraji v oligocenski dobi. - Proteus, 10, 243-252, Ljubljana.