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Biostratigraphy of second member of the Shirgesht Formation type section in north of Tabas with special emphasis on conodonts

Abstract

Shirgesht Formation is one of the fossiliferous units of Central Iran which in the type section is defined (informally) in the terms of 3 members. This formation is mainly composed of limestone, marl, siltstone, shale and dolomite with 1236 meter thickness. The Shirgesht Formation in type section area, conformably overlay on the upper part of Dermenaj Formation with a gradual contact, composed of brachiopods limestone bearing (Billingsella limestone). The Shirgesht Formation is overlain by sandy limestone and volcanic rocks of Niur Formation.

To do biostratigraphy studies on the second member of the Shirgesht Formation in the type section, totally 14 rock samples were selected. According to conodont content of the Shirgesht Formation second member, 2 conodont assemblage zones were determined which shows an age of Early Ordovician (Tremadocian – Arenigian). The recognized biozones are as followed:

1. (Drepanodus - Paltodus deltifer Assemblage zone)
2. (Paroistodus proteus Assemblage zone)
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