

Conodont Evidences from the "Ockerkalk" of Southeastern Sardinia (Silurian, Silius area)

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Two new Ockerkalk sections (Genna Ciuerciu and Silius I°) have been discovered in southeastern Sardinia (Gerrei), about 7 Km south of the classic graptolite locality Goni. They provided a rich Silurian conodont fauna of about 9000 conodont elements belonging to twenty species. A precise age (Ludlow- Pridoli) has been deduced, with a continuous record of all Silurian conodont Biozones from the *Ancoradella ploeckensis* to the *Ozarkodina remscheidensis eosteinhornensis*. The fauna allows to subdivide the studied interval into the following biozones (from the base to the top): *Ancoradella ploeckensis*- *Polygnathoides siluricus*- *Pedavis latialata*- *Ozarkodina snajdri*- *Pelekysgnathus index* horizon - *Ozarkodina crispa*- *Ozarkodina remscheidensis eosteinhornensis*.

The *latialata*, *snajdri* and *crispa* Biozones are reported for the first time in Sardinia.

The index species *Polygnathoides siluricus*, *Pedavis latialata*, *Ozarkodina snajdri* and *Ozarkodina crispa* appear in the sequence with no co-occurrence.

Pelekysgnathus index, newly recorded in Europe, appears in a horizon in the lowermost part of the *crispa* Zone, considerably before the North American range.

As already reported in SW Sardinia (Gnoli et al., 1988), *Pseudooneotodus bicornis* is present up to *eosteinhornensis* Zone, having therefore a longer range than in other previous reports.

The biosedimentologic analysis confirms the pelagic nature of the limestone, whose fauna, together with conodonts, is composed by small bivalves, ostracods, brachiopods, gastropods, trilobites, crinoids and rare small cephalopods as sparse bioclasts, only locally concentrated, inside a fine-grained sediment.

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