

Dinosaur fossils in marine facies from ANA locality, Arcillas de Morella Formation (Aptian, Lower Cretaceous, Cincorres, Spain)

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The ANA site was discovered in 1998, but it remained unexcavated until 2002, when a team of palaeontologists formed by members of the Institut Paleontología Crusafont from Sabadell and the Grup Guix from Vila-real unearthed the first fossil from the locality.

Nowadays there are 371 fossils collected, including vertebrate and invertebrate species. Dinosaur bones (Theropoda and Ornithopoda) are abundant in this assemblage. The site is located within the Arcillas de Morella Formation (Aptian, Early Cretaceous). This formation crops out in the Maestrat Basin, located in the eastern part of the Iberian rift system (Iberian Chain). Salas et al., (1995) suggested several units for the Maestrat Basin (up to 5.8 km of Mesozoic sediments) for the Lower Aptian Depositional Sequence (Lower Cretaceous Megasequence). Gámez et al., (2003) defined five facies associations for the formation that they interpreted as non-marine, and observed at the upper part a shift towards marine environments.

In the ANA locality, we identified the ichnospecies *Teredolites clavatus* Leymerie, 1842. Ferrer and Gibert (2005) interpreted the horizon containing *Teredolites* in a nearby outcrop at the Teuleria Milian in the upper part of the Arcillas de Morella Formation as indicative of a transgressive surface (TS), therefore ANA would be located on a transgressive surface (TS) and it corresponds to marine facies. Therefore, dinosaur fossils from ANA were finally buried in a marine environment, and this would occur in other dinosaur sites within the Arcillas de Morella Formation.

Ferrer, O. & Gibert, J. M. 2005. Presencia de *Teredolites* en la Formación Arcillas de Morella (Cretácico Inferior, Castellón). *Revista Española de Paleontología*, N. E. X, 39-47.

Gámez, D., Paciotti, P., Colombo, F. & Salas, R. 2003. La Formación Arcillas de Morella (Aptiense Inferior), Cadena Ibérica oriental (España): caracterización sedimentológica. *Geogaceta*, 34, 191-194.

Leymerie, M. A. 1842. Suite de mémoire sur le terrain Crétacé du département de l'Aube. *Memoires de la Société Géologique de la France*, 4, 291-364.

Salas, R., Martín-Closas, C., Querol, X., Guimerà, J. & Roca, E. 1995. Evolución tectonosedimentaria de las cuencas del Maestrazgo y Aliaga - Penyagolosa durante el Cretácico Inferior. In: R. Salas & C. Martín-Closas (Editors), *El Cretácico inferior del Nordeste de Iberia*. Publicacions de la Universitat de Barcelona, Guía de campo de las excursiones científicas realizadas durante el III Coloquio del Cretácico de España (Morella, 1991), pp. 15-94.

Osteology and phylogenetic position of *Anomoiodon liliensterni*, a procolophonid reptile from the Middle Triassic Bundsandstein of Germany

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Procolophonoids are small to medium sized Permo-Triassic parareptiles, and several taxa have biostratigraphic potential. The procolophonid reptile *Anomoiodon liliensterni*, from the Middle Triassic of Germany, is represented by two closely associated skeletons preserved as natural moulds in sandstone. These skeletons were described from plaster casts with little detail (Huene 1939) and subsequently the moulds were misplaced. This was unfortunate because interest in *Anomoiodon* was renewed after suggestions that it is the senior synonym of *Kapes* (Spencer and Storrs 2002). *Kapes* is known from the Triassic of Russia and the United Kingdom, where it has been used as an informal index taxon (Novikov and Sues 2004; Spencer and Storrs 2002). Fortunately, the original specimens of *Anomoiodon* resurfaced recently. New