

Evidence of a new carcharodontosaurid from the Upper Cretaceous of Morocco

Andrea Cau, Fabio Marco Dalla Vecchia, and Matteo Fabbri


Acta Palaeontologica Polonica 57 (3), 2012: 661-665 doi: <http://dx.doi.org/10.4202/app.2011.0043>

We report an isolated frontal of a large-bodied theropod from the Cenomanian “Kem Kem beds” of Morocco with an unusual morphology that we refer to a new carcharodontosaurid distinct from the sympatric *Carcharodontosaurus*. The specimen shows a unique combination of plesiomorphic and potentially autapomorphic features: very thick and broad bone with a complex saddle-shaped dorsal surface, and a narrow vertical lamina between the prefrontal and lacrimal facets. This study supports the hypothesis that a fourth large theropod was present in the Cenomanian of Morocco together with *Carcharodontosaurus*, *Deltadromeus*, and *Spinosaurus*.

Andrea Cau [cauand@gmail.com], Museo Geologico “Giovanni Capellini”, Via Zamboni 63, I- 40127 Bologna, Italy; Fabio M. Dalla Vecchia [fabio.dallavecchia@icp.cat], Institut Catalá de Paleontologia “M. Crusafont”, C/ Escola Industrial 23, E-08201 Sabadell, Spain; Matteo Fabbri [paleomatteo@gmail.com], Dipartimento di Scienze della Terra, Università degli Studi di Firenze, Via La Pira 4, I-50121 Firenze, Italy.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (for details please see creativecommons.org), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

 [Full text \(314.0 kB\)](#) |

 [Supplementary file \(332.6 kB\)](#)