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The first calibration of radiolarian biochronology with Late Cretaceous (latest

Coniacian-Santonian to early Campanian) planktonic foraminifera in the volcano-

sedimentary sequences of the Eastern Pontides, NE Turkey

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Abstract

In the Eastern Pontides (NE Turkey), one of the few and most substantial biochronologic

calibration studies in the world was performed on radiolarians associated with planktonic

foraminifera in four measured stratigraphic sections, including the Upper Cretaceous rocks of

two different tectonic units (the northern part of the Hopa–Borcka Zone and the Aksu Unit of

the Olur-Tortum Zone). Furthermore, the dating of volcanism through volcanic and

pyroclastic rock units in contact with fossiliferous rocks was executed. Santonian radiolarian

taxa, latest Coniacian-Santonian and late Santonian planktonic foraminifer taxa were

obtained from bioclastic wackestones and packstones in association with basalt sills and

basaltic hyaloclastites in the Küçükdere-1 and Küçükdere-2 sections of the Cağlayan

Formation around Trabzon. Early Campanian radiolarians and planktonic foraminifera were

obtained from cherts interbedded with rhyolitic pyroclastic rocks in the Koyuncular section of

Çayırbağ Formation near Artvin and bioclastic wackestones in the Aksu section of the Aksu

Formation around Erzurum. The biozones Dicarinella asymetrica (uppermost Coniacian-

Santonian) and Globotruncanita elevata (lower Campanian) for planktonic foraminifera, and

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