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Tethyan plankton bioevents calibrated to stable isotopes across the upper Santonian– lower Campanian transition in north-western Tunisia

Sherif Farouk, Mahmoud Faris, Zaineb Elamri, Fayez Ahmad, Michael Wagreich

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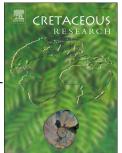
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Abstract

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Calcareous nannofossil and planktonic foraminifera biostratigraphic datums are correlated 12 with carbon isotope stratigraphy across the upper Santonian-lower Campanian transition from 13 Ain Zouakra outcrop (Ellès area) in north-western Tunisia. Twenty two calcareous 14 microplankton bio-events are identified and discussed, including 11 planktonic foraminiferal 15 and 11 nannofossil events. The studied upper Santonian-lower Campanian succession can be 16 divided into five nannofossil zones (CC17/UC13 to CC21/UC15c) equivalent to three 17 planktonic foraminiferal zones named Dicarinella asymetrica, Globotruncanita elevata, 18 Globotruncana ventricosa. The Santonian/Campanian Boundary Event (SCBE) is 19 characterized by a positive $\delta^{13}C$ double peak. The first peak (a) occurs within the uppermost 20 CC17 Zone and Dicarinella asymetrica Zone. The second peak (b) directly occurs below the 21 base of CC18 (FO of Bronsonia parca parca) and last occurrence (LO) of Dicarinella 22 asymetrica. It is marked by several extinction bioevents of representatives of Whiteinella, 23 Dicarinella and Sigalia and the gradual disappearance of species of Marginotruncana (all 24 Download English Version:

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