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New insights on sedimentology, sequence stratigraphy and palaeogeographic reconstruction of the Tortonian-Early Messinian Kechabta series

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2 reconstruction of the Tortonian-Early Messinian Kechabta series

3 In Kechabta Foreland Basin (Northern Tunisia)

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15 Abstract

The Kechabta Basin is part of the Tunisian Foreland Basin in front of the Numidian and 16 Tellian nappes. During the Tortonian, this basin records a strong subsidence rate due to 17 flexural process, in front of the nappes. Contrary to previous interpretations, a 18 19 sedimentological investigation of the thick Tortonian-Early Messinian Kechabta Formation (over 1300 m) reveals that this siliciclastic series corresponds to a complex deltaic shorelines 20 deposit dominated by waves and influenced by tides. This formation is mainly made of a large 21 number of high frequency, mudstone to sandy prograding parasequences representing 22 repeated progradational phases of the coastal wedge. Facies successions within many of the 23 parasequences show normal regressive trends. These parasequences present offshore grey-24 25 brown mudstone, followed by transition offshore sandy storm beds alternating with mudstone, then by shoreface sandstones bearing hummocky-cross stratification and wave ripples, then 26 by foreshore facies or tidal flat facies. However, many other parasequences reveal forced 27

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