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# Location of the River Euphrates in the Late Mioc dating of terrace gravel at Shireen, Syria

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Abstract. We report gravel of the River Euphrates, capped by basa Ar-Ar dated to ~9 Ma, at Shireen in northern Syria. This gravel, pre by the erosion-resistant basalt, allows us for the first time to recor the history of this major river during the Late Miocene. In response progressive regional surface uplift, the Euphrates extended SE by between the early Middle Miocene, when the coast was near Kahramanmaraş in southern Turkey, and the Pliocene, when it lay western Iraq, east of the Arabian Platform uplands.

■ <u>Final Revised Paper</u> (PDF, 8387 KB) ■ <u>Supplement</u> (4779 KB) ■ <u>Discussion Paper</u> (eED)

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