Sixteen bryozoan species have been identified in the Başıysla section, Mut Basin, southern Turkey. Five of these species are described here, including two new to science representing new genera: *Basyaylella elsae* gen. et sp. nov. and *Ostrovskia triforamina* gen. et sp. nov. The other three described species (*Exidmonea* sp., *Biflustra savartii*, and *Margaretta* sp.) show unusual features that have not been reported previously. Based on bryozoan data, the Başıysla sequence represents a tropical to subtropical, normal marine environment, with seafloor composed of fine sedimentary particles in a low-energy setting.

**Key words:** Bryozoa, Cheilostomata, *Basyaylella*, *Ostrovskia*, Tortonian, Eocene, Miocene, Mut Basin, Turkey.

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