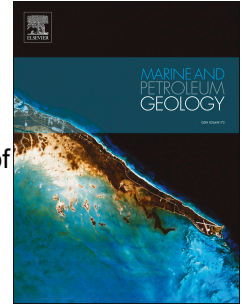


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Internal seismic stratigraphy of the Messinian evaporites across the northern sector of the eastern Mediterranean Sea

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18
19 **Abstract**

20 A dense grid of high-resolutions multichannel seismic reflection profiles
21 from the northern basins of the eastern Mediterranean (Rhodes, Finike, Antalya, Cilicia, Adana
22 and Latakia basin) allow documenting a Messinian evaporite succession of variable thickness,
23 bounded at its base and top by two strong seismic reflectors named respectively BS/BES (or the
24 N-reflector) and TS/TES (or the M-reflector). Messinian evaporite succession is thickest in the
25 deep Antalya Basin (2000–2400 ms twt), but is notably thinner in across the Rhodes and Finike
26 basins in the west and the Adana, Cilicia, Latakia basins in the east. Five acoustically distinctive
27 Messinian subunits are identified in the Antalya Basin (2e–2a): three of these subunits (2e, 2c,
28 2a) are acoustically stratified with strong laterally continuous reflections while two (2d, 2b) are

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