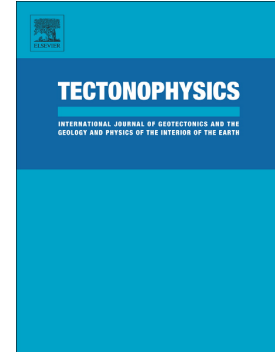


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Deep structure of the continental margin and basin off Greater Kabylia, Algeria – New insights from wide-angle seismic data modeling and multichannel seismic interpretation

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**Deep structure of the continental margin and basin off Greater Kabylia, Algeria –
New insights from wide-angle seismic data modeling and multichannel seismic
interpretation**

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Abstract

During the Algerian-French SPIRAL survey aimed at investigating the deep structure of the Algerian margin and basin, two coincident wide-angle and reflection seismic profiles were acquired in central Algeria, offshore Greater Kabylia, together with gravimetric, bathymetric and magnetic data. This ~260km-long offshore-onshore profile spans the Balearic basin, the central Algerian margin and the Greater Kabylia block up to the southward limit of the internal zones onshore. Results are obtained from modeling and interpretation of the combined data sets.

The Algerian basin offshore Greater Kabylia is floored by a thin oceanic crust (~4km) with P-wave velocities ranging between 5.2-6.8km/s. In the northern Hannibal High region, the

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