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Lower Cretaceous lacustrine successions, North Yellow Sea Basin, eastern China:
Rift basin sequence stratigraphy and stacking patterns in response to magmatic
activity

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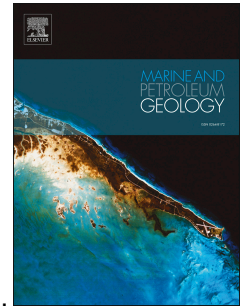
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1 **Lower Cretaceous lacustrine successions, North Yellow Sea Basin, Eastern**
2 **China: rift basin sequence stratigraphy and stacking patterns in response**
3 **to magmatic activity**

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16 **Abstract**

17 A series of Mesozoic rift basins formed in eastern China were associated with
18 magmatic activity and subduction along the Eurasia, Izanagi and Pacific plate margins. The
19 impact of magmatic activity on lacustrine sequence development was documented with
20 well-log and 3-D seismic data from the Jupiter Depression in the North Yellow Sea Basin. We
21 identified key surfaces, retrogradational and progradational parasequence sets, and defined
22 the characteristics of systems tracts and the internal sequence components for the Lower
23 Cretaceous (K₁SQ1). A 2-D SEDPAK numerical stratigraphic forward modeling was used to
24 further constrain sequence development in the Jupiter Depression by considering different
25 modeling parameters and the spatial-temporal characteristics of magmatic activity. Modeling
26 results were compared and matched with the sequence architecture observed from seismic

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