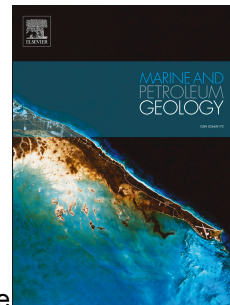


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Controls on Neogene carbonate facies and stratigraphic architecture of an isolated carbonate platform – the Caribbean island of Bonaire

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1 **Controls on Neogene carbonate facies and stratigraphic architecture of**
2 **an isolated carbonate platform – the Caribbean island of Bonaire**

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12 ***Abstract***

13 The Neogene carbonate succession on the island of Bonaire (Netherland Antilles) shows
14 complex geometries associated with a sequence of depositional and erosional events which
15 reflects the history of this isolated platform and the interaction between eustasy and
16 tectonics. Three major episodes of carbonate platform deposition are defined which show
17 contrasting depositional styles: 1) aggradational platform (Lower-Middle Miocene) with
18 sediments showing a fining-upward trend from mixed coral rudstone to medium-grained
19 coralgal grain/packstone, partly dolomitized and tilted by tectonic deformation; 2)

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