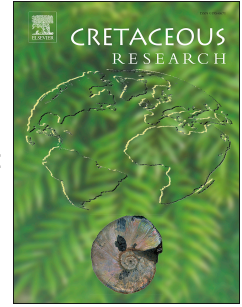


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Cretaceous rudist-bearing platform carbonates from the Lycian Nappes (SW Turkey):  
Rudist associations and depositional setting

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1 **Cretaceous rudist-bearing platform carbonates from the Lycian Nappes (SW Turkey):**  
2 **rudist associations and depositional setting**

3

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13

14 **Abstract:** Lycian Nappes (in SW Turkey) lie between the Menderes Massif and Bey Dağları  
15 carbonates and comprise thrust sheets (nappes piles) of Paleozoic-Cenozoic rocks, ophiolitic  
16 and tectonic mélanges and serpentized peridotites. This study focuses on identification of  
17 rudists and their palaeoenvironmental features observed within the Cretaceous low grade  
18 metamorphic successions (dominated by recrystallized limestones) from the Tavas and  
19 Bodrum nappes. The study is based on fifteen stratigraphic sections measured from Tavas,  
20 Fethiye, Köyceğiz, Bodrum, Ören and Bozburun areas. The Lower Cretaceous successions  
21 with rudists are very sparse in the Lycian Nappes and a unique locality including a Berriasian  
22 epidiceratid-requieniid assemblage is reported so far. A new requieniid-radiolitid assemblage  
23 was found within the pre-Turonian (?Albian-?Cenomanian) limestones. Four different Upper  
24 Cretaceous rudist assemblages were firstly identified as well: 1) Caprinid-Ichthyosarcolitid  
25 assemblage (middle-late Cenomanian); 2) Distefanellid assemblage (late Turonian); 3)  
26 Hippuritid-Radiolitid assemblage (late Coniacian-Santonian-Campanian); 4) Radiolitid-  
27 Hippuritid assemblage ('middle'-late Maastrichtian). Microfacies data and field observations  
28 indicate that the rudists lived in the inner and outer shelves of the Cretaceous carbonate  
29 platform(s) in this critical part of the Neotethys Ocean. Rudists formed isolated patchy

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