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CHECKLIST OF CUBAN RUDIST TAXA

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ABSTRACT

In the shallow-water Cretaceous deposits of Cuba, Aptian to Maastrichtian rudist faunas have been found within two main general tectonic settings: the Bahamian carbonate platform and the Cretaceous volcanic arc, in limestone lenses and small carbonate platforms. Within the Bahama platform only early Aptian and Maastrichtian faunas have been identified, while in the Cretaceous volcanic arc rudist-bearing limestones are present within the upper Albian, Santonian, lower Campanian and Maastrichtian.

Key words: Cuba, rudists, Cretaceous.

RESUMEN

En los depósitos de aguas someras del Cretácico de Cuba, se han encontrado faunas de rudistas del Aptiano al Maastrichtiano dentro de dos marcos tectónicos principales: la plataforma carbonatada Bahamiana y el arco volcánico del Cretácico, en lentes de caliza y pequeñas plataformas carbonatadas. En la plataforma Bahamiana se han encontrado solamente faunas del Aptiano temprano y del Maastrichtiano, mientras que en el arco volcánico cretácico, se encuentran calizas con rudistas en el Albiano tardío, en el Santoniano, en el Campaniano temprano y en el Maastrichtiano.

Palabras clave: Cuba, rudistas, Cretácico.

INTRODUCTION

For more than ten years, the authors have been studying rudists from existing collections at the Museo Nacional de Historia Natural (Havana) and the Instituto de Geología y Paleontología (Havana), and have collected new fossil material in order to complete the survey of the fauna at different tectonic environments and stratigraphic levels. During the final stage of the work the authors had the important cooperation of Dr. Peter Skelton (Open University, U.K.) and Dr. José María Pons (Universitat Autònoma de Barcelona, Spain). As a consequence, several papers on Cuban rudist faunas are being prepared.

This short report was made in order to list those rudist taxa that have been reported from Cuba. The list is organized alphabetically and it is specified the age of the sediments where the taxa were reported. The age of the rudist-bearing deposits was established according to the whole fossil assemblages (algae, foraminifera, ammonites, echinoderms) and corroborated with the known range of the rudists. It is important to note that the range of the individual species listed can be larger or shorter than shown in the table, but it is not the aim of this note to discuss extensively this problem. The rudists that occur only in the Bahama platform are identified by the symbol *B.* The reference number in the table indicates the paper where the taxon was reported under the given name.

The rudist taxa in the following chart belong to 28 genera. Most of these taxa were verified with actual specimens in the field and in the Cuban collections, but few of them are only recorded from the literature. Some taxa reported previously for Cuba are not listed because they were found to be unjustified, as *Ichthyosarcolites, Sabinia*, etc.

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CHECKLIST OF CUBAN RUDIST TAXA

Taxa	Age					Reference
	Maastrichtian	Campanian	Santonian	Albian	Aptian	
Amphitriscoelus						
A. waringi Harris and Hodson					*B	7
Antillocaprina						
A. annulata (Palmer)	*					5
A. crasitella Mac Gillavry	*					5
A. occidentalis (Whitfield)	*					5
A. pugniformis (Palmer)	*					5
A. stellata Chubb	*					2
Barrettia						
B. monilifera Woodward		*				5
B. multilirata Whitfield	*					5
Biradiolites						
B. e. g. *acuticostatus* Adkins	*	*				7
B. cubensis Douvillé		*				3
B. macgillavryi Vermunt		*				11
B. rudissimus Trechmann	*					2
B. tschoppi Vermunt	*					11
Bournonia						
B. cancellata (Whitfield)	*					5
B. hispida Douvillé		*				5
B. planasi Thiadens	*					9
B. thiadensi Vermunt	*					11
Caprina						
C. douvillé Paquier					*B	7

Taxa	Age					
	Maas-trich-tian	Camp-an-ian	San-ton-ian	Al-bian	Ap-tian	Ref-er-ence
Caprinuloidea						
C. perfecta Palmer				*		10
C. multitubifera Palmer				*		7
Chiapasella						
C. bermudezi Palmer	*					6
C. cubensis Rutten		*				8
C. radiolitiformis (Trechman)	*					1
Coalcomana						
C. ramosa (Boehm)				*		10
Distefanella						
D. mooretowensis (Trechmann)	*					2
Durania						
D. curasavica (Martin)			*			5
D. lopeztrigoi (Palmer)			*			5
D. nicholasi (Whitfield)	*					2
Hippurites						
H. maldonesis Chubb	*					2
H. mullerriedi (Vermunt)	*					11
Klimbleia						
K. albrittoni (Perkins)				*		7
Mitrocaprina						
M. bayani (Douvillé)		*?				5
M. palmeri Mac Gillavry	*					5
M. tschoppi (Palmer)	*					5
M. spp. indtm.		*	*			7
Offneria						
O. cf. *interrupta* Paquier					*B	7
Orbignya						
?Pachytraga						
?P. paradoxa Paquier					*B	7
Parastroma						
P. guitarti (Palmer)	*					5
P. sanchezi Douvillé		*				3
Plagioptychus						
P. antillarum (Douvillé)		*	*?			8
Praebarrettia						
P. albeari Lupu	*					4
P. corralli (Palmer)			*			5
P. porosa (Palmer)	*					6
P. sparcilirata Whitfield	*					5
P. torrei Lupu	*					4
Radiolites						
R. macroplicatus Whitfield		*				9
Sauvagesia						
S. sp.	*					7
Tampsia						
T. rutteni Vermunt		*				11

Taxa	Age					
	Maas-trich-tian	Camp-an-ian	San-ton-ian	Al-bian	Ap-tian	Ref-er-ence
Tepeyacia						
T. corrugata Palmer				*		10
Titanosarcolites						
T. alatus Chubb	*	*cf				2
T. giganteus Whitfield	*					3
T. macgillavri Alencáster	*					4
Torreites						
T. sanchezi Douvillé		*				6
T. tschoppi Mac Gillavry			*			5
Thyrastylon						
T. adhaerens (Whitfield)	*					2
Vaccinites						
V. inaequicostatus macgillavryi (Palmer)			*			5
V. inaequicostatus vermunti Mac Gillavry		*				5

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